

U.S. DEPARTMENT OF COMMERCE/Environmental Science Services Administration



Technical Report

INSTITUTES FOR ENVIRONMENTAL RESEARCH IER 38-ITSA 38-3

Tabulations of VHF Propagation Data Obtained Over Irregular Terrain at 20, 50, and 100 MHz

Part III: Ohio Data

DECEMBER 1967

Boulder, Colorado

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ESSA TECHNICAL REPORT IER 38-ITSA 38-3

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M. E. JOHNSON

M. J. MILES

P. L. McQUATE

A. P. BARSIS

INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
BOULDER, COLORADO

December 1967

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TABULATIONS OF VHF PROPAGATION DATA OBTAINED OVER
IRREGULAR TERRAIN AT 20, 50, AND 100 MHz

PART III: Ohio Data

by

M. E. Johnson, M. J. Miles, P. L. McQuate, and A. P. Barsis

This report contains tabulations of transmission loss data resulting from propagation experiments at 20, 50, and 100 MHz conducted over irregular and partly wooded terrain in northeastern Ohio.

1. Introduction

This is the third part of ESSA Technical Report IER-38 ITSA 38, containing the results of propagation measurements over irregular terrain at frequencies near 20, 50, and 100 MHz. Because of the large amount of data collected during the measurement program, the complete report is in three parts, each corresponding to one of the three terrain types over which measurements were performed. Parts I and II (Johnson et al., 1967) contain data obtained in the Colorado plains and mountains, respectively. All data are in the form of tables of received

carrier levels, basic transmission loss, and attenuation relative to free space for various path distances, frequencies, antenna heights, and, for 100 MHz, both horizontal and vertical polarization. Terrain profiles, photographs, and operator's comments regarding terrain characteristics are also shown for each propagation path. No meteorological data were collected during the Ohio measurements.

Since there are some differences between the equipment and the measurement procedures employed in Colorado and those used in Ohio, this part of the report includes a short outline of measurement methods, antenna data, and other equipment descriptions applicable to the Ohio effort. For the convenience of the reader, the explanation of the data presentation method and column headings given in Parts I and II are repeated here.

All measurements in Ohio were performed by Smith Electronics, Inc., under contract with the National Bureau of Standards. The entire measurement program was undertaken through the sponsorship of the U. S. Army Electronics Command as part of a study of propagation characteristics resembling the operation of an army in the field.

2. Measurement Program and Equipment

The data tabulated in this part of the report were obtained in 1963 and 1964. Six different transmitter sites were used, as shown in figure 1. The "central" transmitter site was near Brecksville, Ohio,

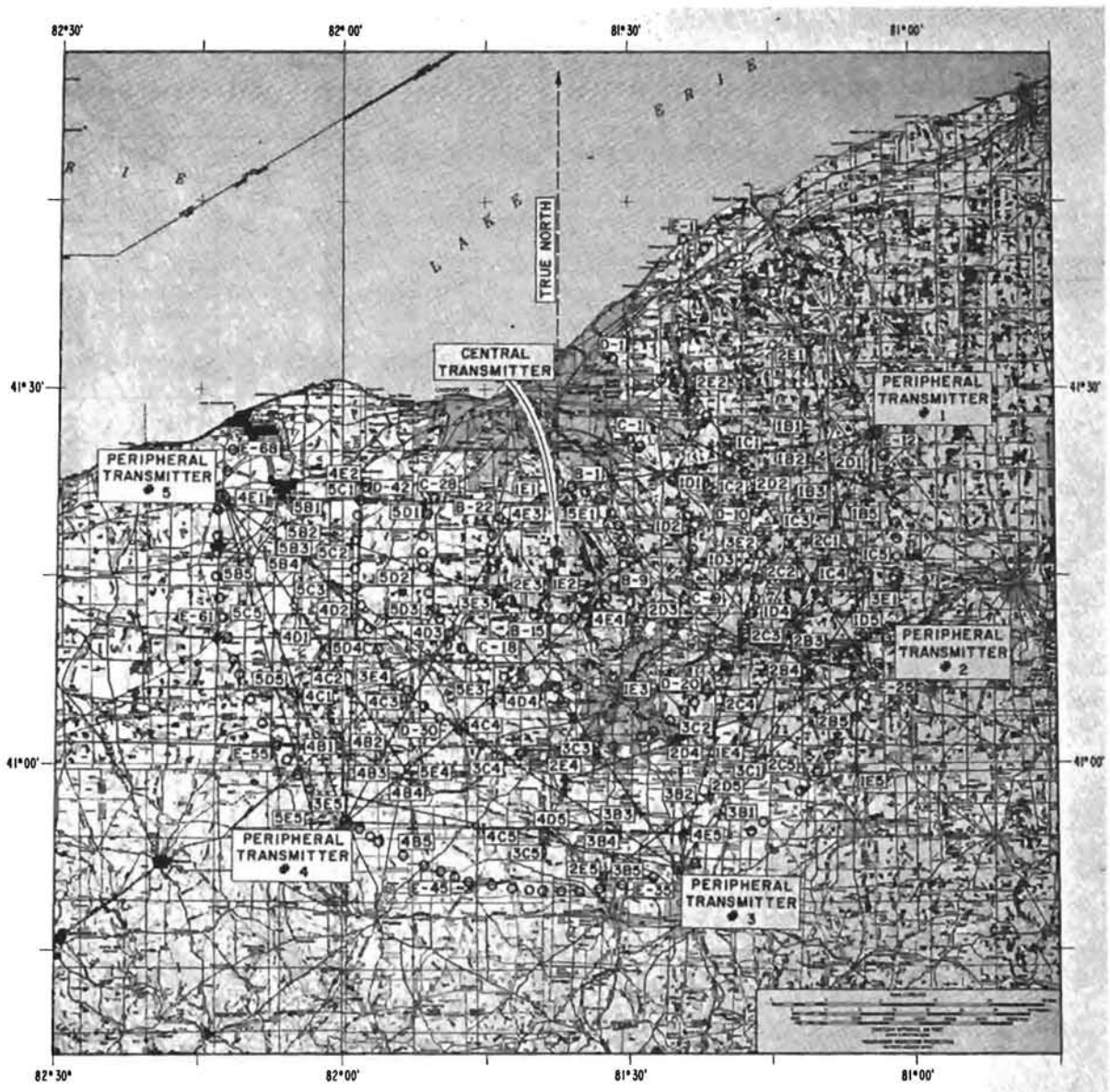


Figure 1. LAYOUT OF MEASUREMENT POINTS IN OHIO

with the corresponding receiver sites located in concentric circles around the transmitter site at distances of 10, 20, 30, and 50 km from the transmitter. Additionally, five "peripheral" transmitter sites were located approximately around the 50-km circle. Receiving sites were selected on five radials extending from each "peripheral" transmitter site and crisscrossing the concentric circles at the same distances from the transmitters as used for the central transmitter, namely, 10, 20, 30, and 50 km. All propagation paths were in hilly and partly wooded terrain in northeastern Ohio, and no receiver sites were located in heavily built-up city areas. Only vertical polarization was used on 19.97 and 49.72 MHz, whereas both horizontal and vertical polarization were used on 101.8 MHz. In contrast to the Colorado measurement effort, cross polarization data were not obtained in Ohio.

Descriptive antenna parameters for the Ohio data are shown in table 1. Figure 2 shows the transmitter shelter on location at the "central" transmitter site, and figure 3 shows the receiving vehicles with all antennas in position. A close-up of the 101.8-MHz receiving antenna is shown in figure 4. The horizontal turnstile serves as the ground plane for the vertical quarter wave antenna.

The transmitting antenna on 101.8 MHz was a Yagi antenna similar to the one used for the Colorado measurements (Johnson et al., 1967) except for the initial measurements from the "central" transmitter site where a loop and a monopole were used.

Table 1

Descriptive Antenna Parameters for Ohio Measurements

| Frequency, MHz | Transmitting Antennas * | Receiving Antennas |
|----------------|--|--|
| 19.97 | quarter-wave vertical, 3.7 m above ground | 20-m spring-mounted whip, center loaded, 1.3 m above ground |
| 49.72 | 1.6-m Andrew unipole, 4.2 m above ground | quarter-wave spring-mounted whip, 0.55 and 1.7 m above ground |
| 101.8 | quarter-wave vertical and Alford loop horizontal or 5-element Yagi, 4.0 m above ground | quarter-wave vertical and horizontal turnstile doubling as the ground plane for the vertical antenna, 3, 6, and 9 m above ground |

* The antenna heights given here apply when the transmitter shelter was mounted on a flat-bed trailer (see fig. 2) and using the Yagi transmitter antenna. For certain receiving locations, using the central transmitter site, the shelter was sitting on the ground and the omnidirectional transmitting antennas on 101.8 MHz were used. In these cases the antenna heights above ground were 2.6 m for 19.97 MHz, 2.7 m for 49.72 MHz, and 2.9 m for 101.8 MHz. These receiver locations were 1 through 17, 22, on the 10-km circle, and 1 through 5, 7, 9, 10 on the 20-km circle.



Figure 2. TRANSMITTER SHELTER FOR OHIO MEASUREMENTS

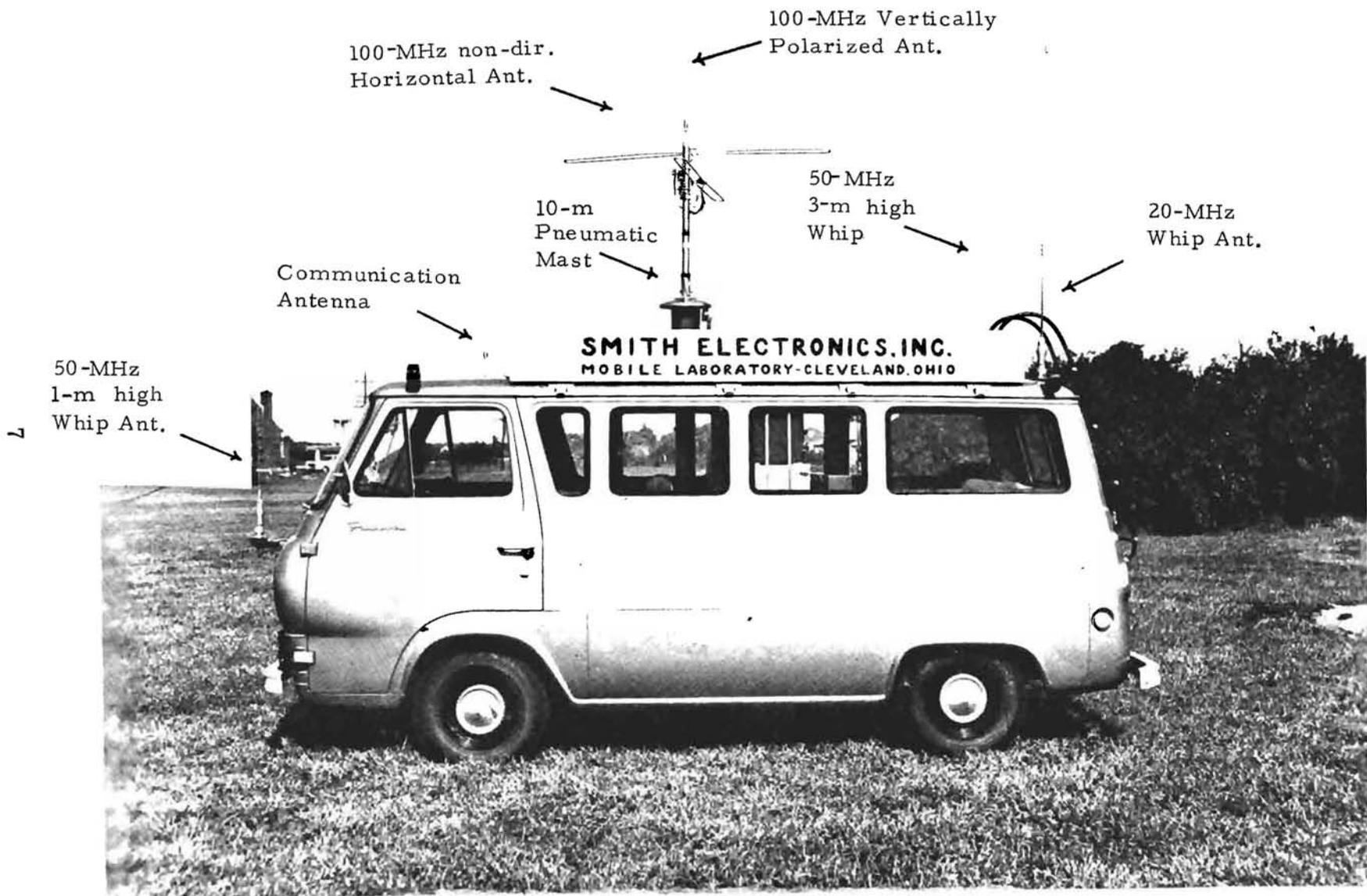


Figure 3. RECEIVING VEHICLE FOR OHIO MEASUREMENTS

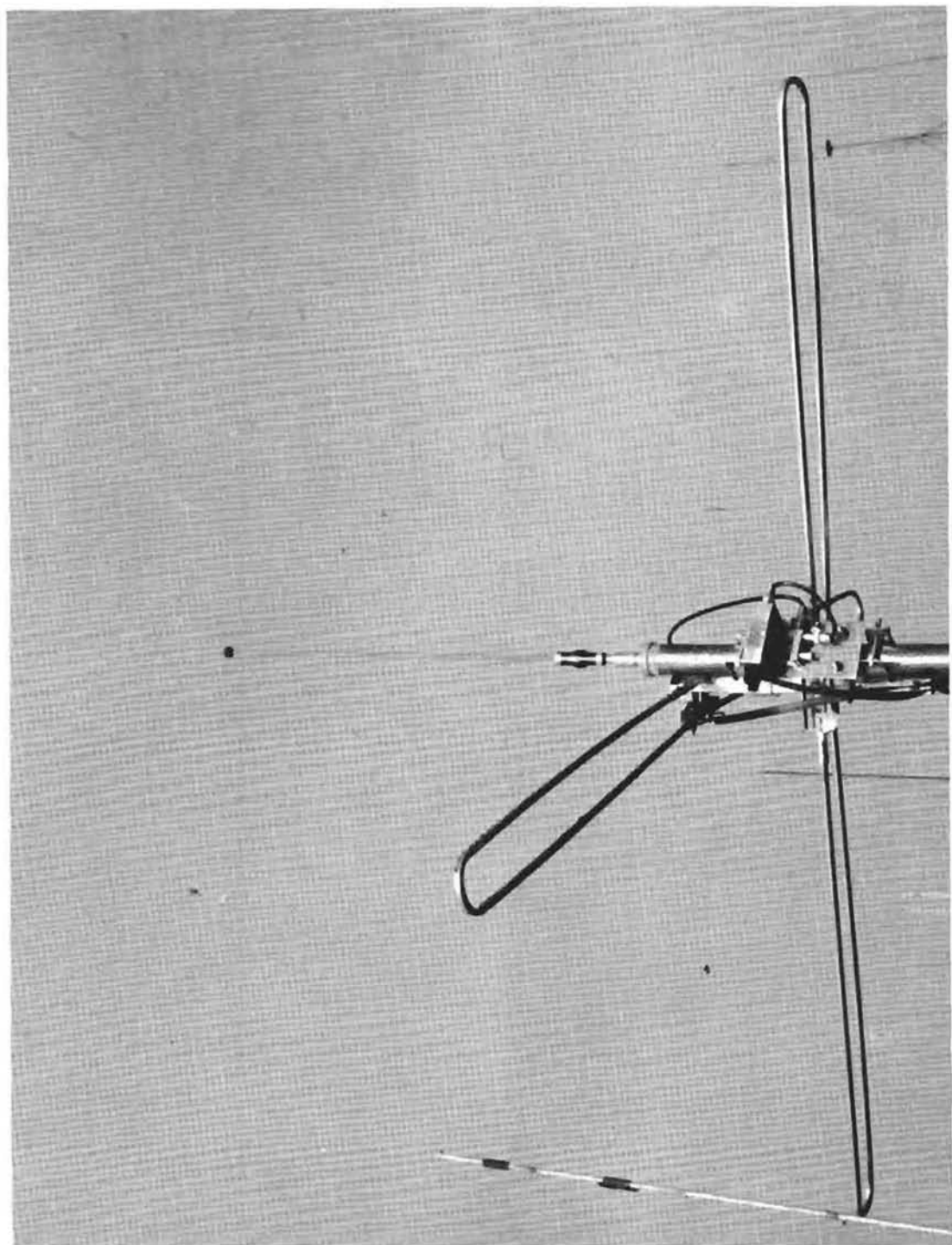


Figure 4. CLOSE-UP OF 101.8-MHz RECEIVING ANTENNA

Discussion of the methods used to determine antenna pattern and gain values is contained in section 4 . The antenna heights given in table 1 for vertical polarization are heights above ground to the feed point or to the equivalent ground plane.

3. Measurement Procedures

Measurement procedures were essentially identical for both the Colorado and the Ohio measurements and have been described in detail in part I of this report (Johnson et al., 1967). As already noted, no cross polarization measurements were performed in Ohio. Also, the Ohio system used a remote command control system for switching polarization of the transmitting antenna, whereas in Colorado such switching was done manually by the transmitter operator when requested (using a two-way voice communication link).

Since receiving equipment for all three frequencies was mounted in one single vehicle in Ohio, essentially all data for a particular site were collected within a relatively short period, whereas in Colorado measurements on 20 and 50 MHz were usually made at a much later date than the measurements on 100 MHz. The Ohio data include only measurements from the test transmitters; no commercial FM broadcast station was used.

The procedure for selecting alternate locations for the determination of location gain was identical to the one used in Colorado and is described in part I of this report (Johnson et al., 1967).

4. Pattern and Gain Measurements on Transmitting and Receiving Antennas

The difficulties in obtaining antenna gain values applicable to each specific propagation path have already been discussed in part I of this report (Johnson et al., 1967). Gain and pattern data for the antennas used in Ohio were determined essentially in the same way as those for the antenna used in Colorado, and are subject to the same ± 3 -dB error estimate. Antenna patterns for all antennas used (except the Yagi antenna on 100-MHz) are shown in figures 5 and 6 in terms of relative voltage versus azimuth in the horizontal plane. Severe distortions in the nominally circular patterns exist especially for the bumper-mounted low 50-MHz receiving antenna and for the 100-MHz vertical receiving antenna at 3-m height above ground.

Appropriate gain values for each path were determined from antenna pattern plots by noting the orientation of the measurement vehicle and the azimuth between the transmitting and receiving locations. Since the 100-MHz Yagi transmitting antenna was always oriented with its maximum toward a particular receiver site, its horizontal patterns need not be considered.

The apparent gain of an antenna is also influenced by impedance changes as a function of the immediate surroundings of the antenna. Any impedance change would result in a change of either the power radiated from the transmitting antenna, or of the power available at the receiver terminals. Since no impedance measurements were made at the individual locations, the effects of mismatch are unknown and cannot be isolated in the analysis of the data.

The following notes apply specifically to the Ohio antenna data:

1. The measured gain value for the low (bumper-mounted) 50-MHz receiving antenna appeared to be unreliable. The RMS gain of this antenna was therefore assumed to be 1.5 dB less than that of the high (vehicle top) 50-MHz antenna. This is based on the relation measured for the corresponding Colorado receiving antennas on 50 MHz.
2. As indicated in table 1, the low-gain 100-MHz transmitting antennas were used for a number of measurement points on the 10- and 20-km circle about the central transmitter site. No gain or pattern measurements are available for these antennas, which were therefore assumed to have the same characteristics as the low-gain transmitting antennas used for 44 of the measurement points in Colorado. The error resulting from this assumption should not exceed the total ± 3 -dB error estimate mentioned above.

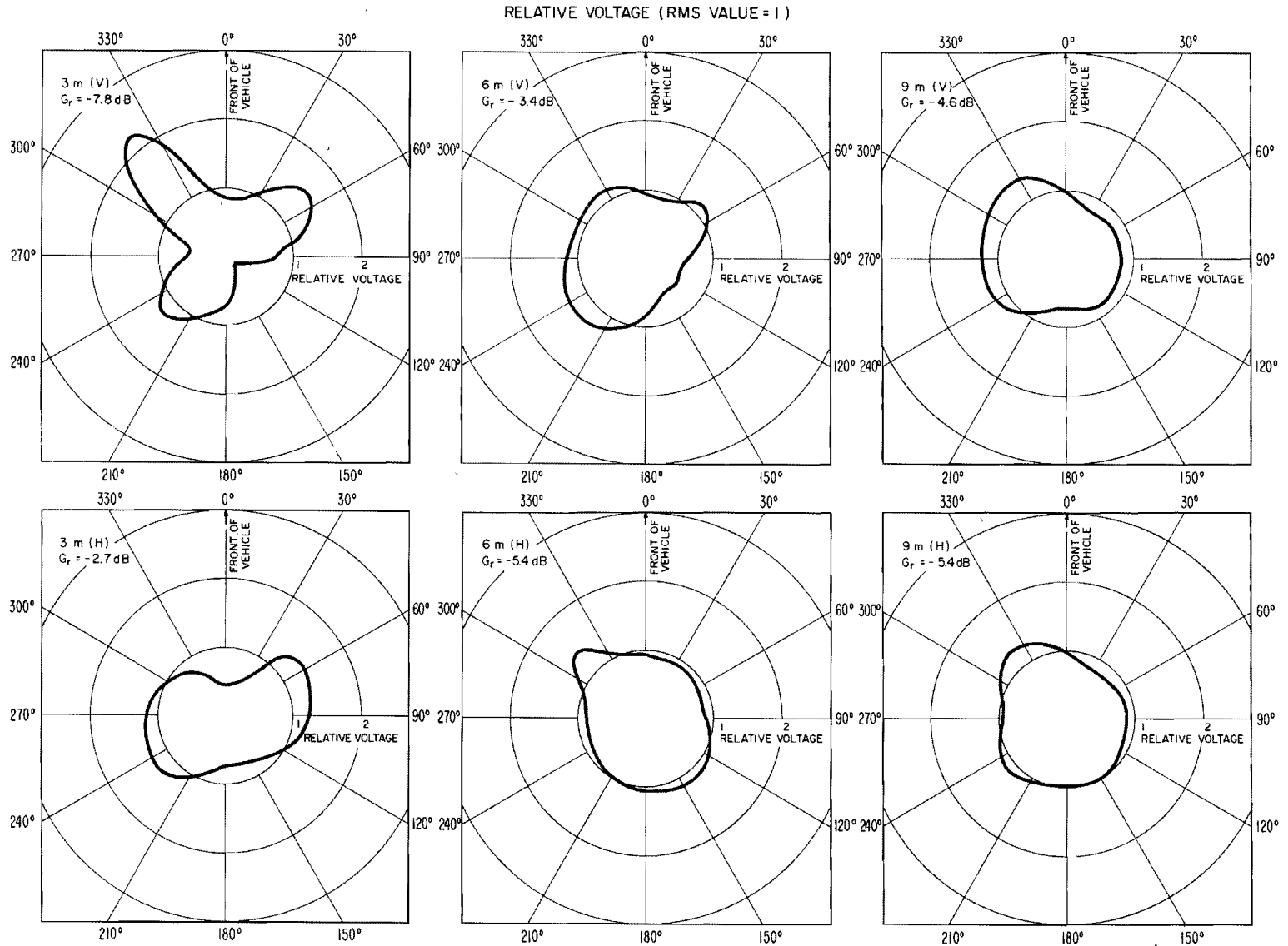


Figure 5. HORIZONTAL PATTERNS FOR OHIO 100 MHz RECEIVING ANTENNAS

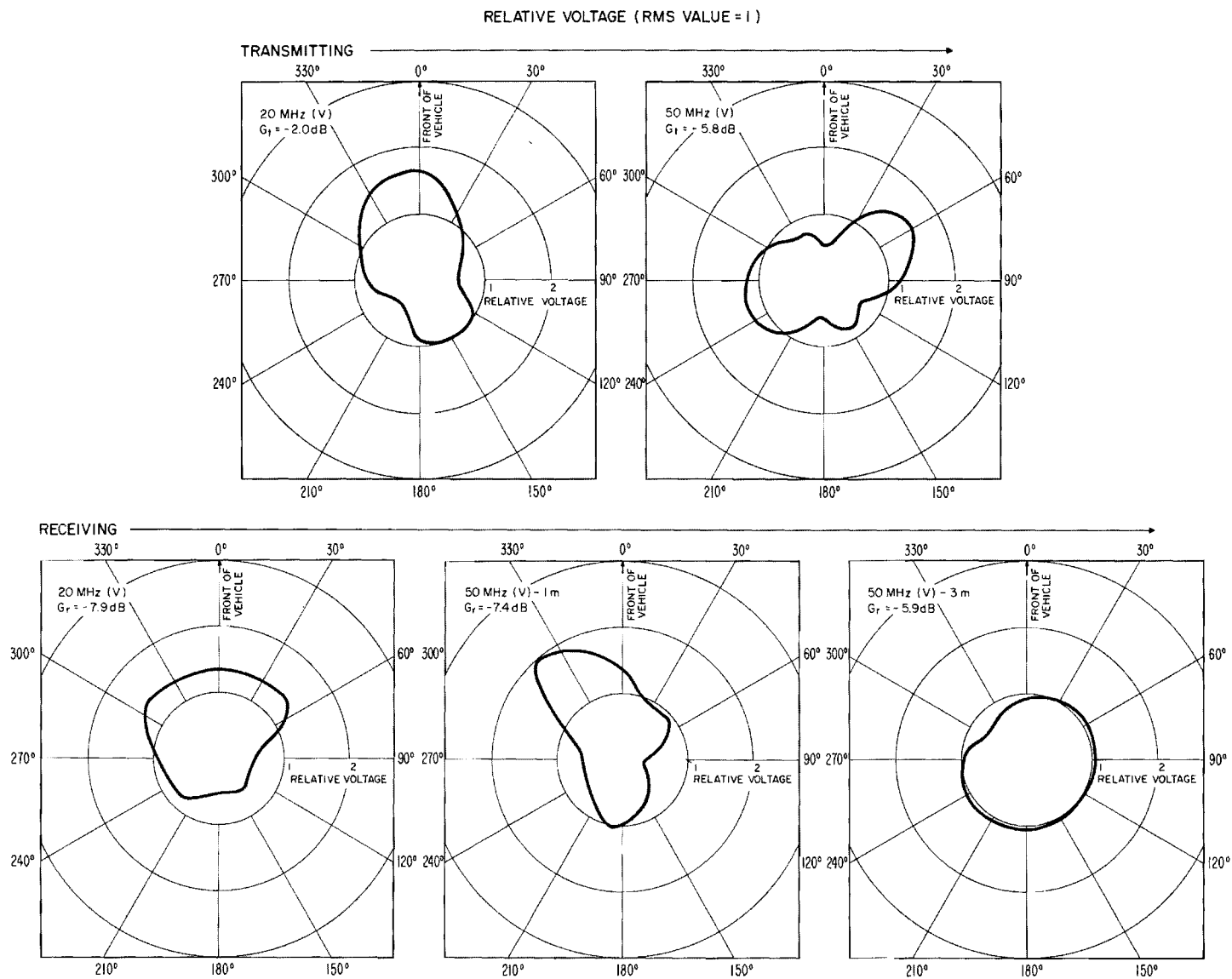


Figure 6. HORIZONTAL PATTERNS FOR OHIO ANTENNAS ON 20 AND 50 MHz

Best estimates of free-space RMS antenna gain values for all antennas used in Ohio are shown in table 2 and are also indicated on the polar patterns in figures 5 and 6. The RMS values provide an indication of the efficiency of the antennas, but were not utilized in the conversion of received power levels to basic transmission loss. The letters V and H in table 2 refer to vertical and horizontal polarization, respectively.

Table 2

Tabulation of Root-Mean-Square Antenna Gain Values in Decibels
Relative to an Isotropic Radiator

| <u>Transmitting Antennas</u> | <u>RMS Gain, dB</u> |
|------------------------------|---------------------|
| 20 MHz V | - 2.0 |
| 50 MHz V | - 5.8 |
| 100 MHz (low gain) V * | - 0.4 |
| 100 MHz (low gain) H * | + 1.3 |
| 100 MHz (Yagi) V | + 7.6 |
| 100 MHz (Yagi) H | + 9.6 |
| <u>Receiving Antennas</u> | |
| 20 MHz V | - 7.9 |
| Low 50 MHz V (1 m) * | - 7.4 |
| High 50 MHz V (3 m) | - 5.9 |
| 100 MHz - 3m V | - 7.8 |
| 100 MHz - 6m V | - 3.4 |
| 100 MHz - 9m V | - 4.6 |
| 100 MHz - 3m H | - 2.7 |
| 100 MHz - 6m H | - 5.4 |
| 100 MHz - 9m H | - 5.4 |

* Gain estimates based on comparison with the antennas used in Colorado. The low-gain 100 MHz antennas were used only for a limited number of measurement points (see table 1).

5. Presentation of Data

The measurement data for the Ohio Hills are presented in section 8. The data are arranged by receiving sites, with two pages for each site. The first page contains the site number, path distance, designation of the transmitter location, and transmitting antenna heights. A photograph taken from the principal receiving location in the direction of the transmitter site and a path profile are also shown on this page. The path profile is plotted on the basis of an effective earth radius of 8630 km, corresponding to a surface refractivity value $N_s = 310$.

The second page repeats site number, path distance, and transmitter designation, and contains the date of the measurements with operator's comments, plus the data for all three frequencies. The data are presented in computer printout format; the path profiles were also obtained by the use of a computer program and an automatic plotter. The distances in kilometers to the transmitter site are shown in the headings for both pages, and are designated by "B." Each line of the printout represents a different combination of frequency, receiving antenna height, polarization, and location (principal or alternates). The various columns are designated and explained as follows:

Column 1, location designation (in parenthesis)

- T terrain type ("HILLS" for all Ohio data)
- B distance from transmitter in kilometers
- F nominal carrier frequency in megahertz (20, 50, or 100)
- P(T) ... polarization of transmitted signal (vertical, V, or horizontal, H)
- P(R) ... polarization of receiving antenna (same as P(T) for all Ohio data)
- L location (principal, P, alternate vertical, AV, or alternate horizontal, AH)
- H nominal receiving antenna height above ground. Note that for 50 MHz, H = 1 denotes the lower antenna mounted on the vehicle bumper, and H = 3 the higher antenna mounted on the vehicle roof. Exact values of antenna height are given in table 1 (see section 2).

Column 2, transmitter power

- W(T) ... for 20 and 50 MHz, effective radiated power in dBW in the direction toward the receiver site, and for 100 MHz, transmitter output power in dBW

Column 3, received carrier level

- W(R) ... received carrier level in dBW, at receiver input, assuming 50 ohms input impedance. The values shown here have been corrected for signal generator calibration bias.

Column 4, transmitting antenna gain

- G(T) ... transmitting antenna gain in the direction to the receiving site in dB relative to an isotropic radiator. No values are shown for 20 and 50 MHz since the antenna gain is part of the effective radiated power.

Column 5, receiving antenna gain

G(R) ... receiving antenna gain in the direction to the transmitter in dB relative to an isotropic radiator

Column 6, transmitter line loss

L(T) ... line losses, in dB, between transmitter and transmitting antenna input. No values are shown for 20 and 50 MHz, since they are part of the effective radiated power. For the low-gain antennas on 100 MHz, line losses are negligible, and are listed as 0.0.

Column 7, receiver line loss

L(R) ... line losses, in dB, between the receiving antenna terminal and the receiver input

Column 8, basic transmission loss

L(B) ... basic transmission loss, in dB, obtained from the values in the preceding columns by the following formula:

$$L(B) = W(T) + G(T) + G(R) - L(T) - L(R) - W(R)$$

As noted above, for 20 and 50 MHz, $W(T)$ is the effective radiated power, and $G(T)$ and $L(T)$ do not enter into the formula.

Column 9, attenuation below free space

A attenuation below free space in dB, obtained from basic transmission loss, $L(B)$, by subtracting the free space loss, L_{bf} , given by:

$$L_{bf} = 20 \log_{10} F + 20 \log_{10} B + 32.45 ,$$

where F is the carrier frequency in MHz, and B the path distance in kilometers.

In the conversion of received power levels to basic transmission loss, it was assumed that the free-space gain values of all antennas (as estimated from antenna measurements) were realized, and that antenna circuit losses and multipath coupling losses could be neglected. The definition of the received power levels on the basis of 50-ohm receiver input impedance also assumes implicitly that the antenna impedances were matched to 50 ohms at all locations. This may not be the case because of the influences of the antenna environment. As stated in section 4, any error resulting from this assumption cannot be separated from other influences of the terrain on the final listed basic transmission loss value.

6. Acknowledgments

Most of the personnel within the Spectrum Utilization Research task area participated in the analysis and evaluation of the data supplied by Smith Electronics, Inc. Special recognition should be given to Mrs. M. G. Frank for her work in assembling the data tabulations and terrain profiles. Personnel within the Tropospheric Propagation Prediction task area assisted in the preparation of the terrain profiles.

7. References

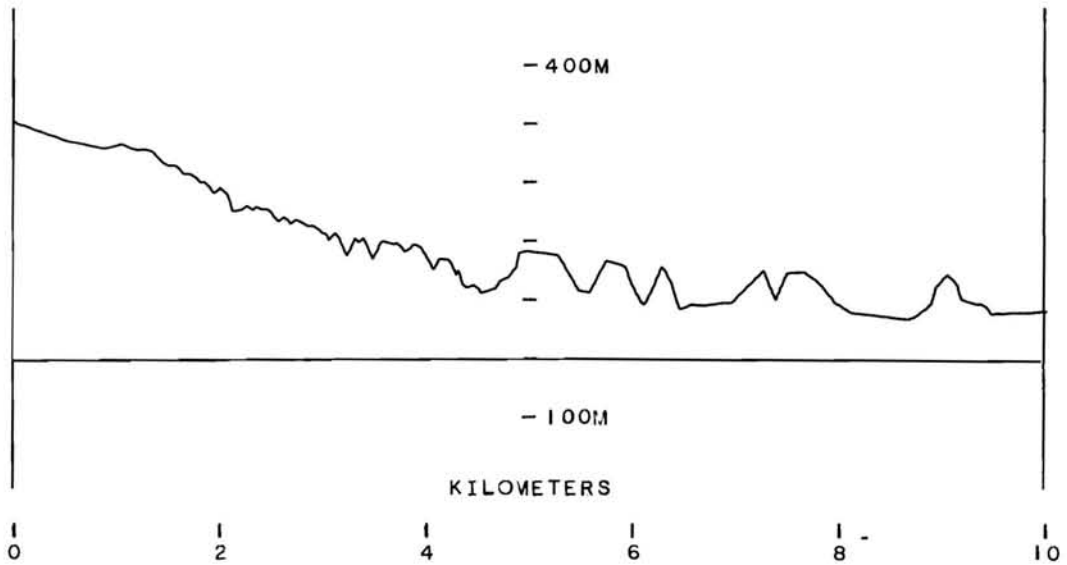
Johnson, M. E., M. J. Miles, P. L. McQuate, and A. P. Barsis (1967), Tabulations of VHF propagation data obtained over irregular terrain at 20, 50, and 100 MHz, ESSA Tech. Rept. IER-38/ITSA 38, Part I (Colorado Plains), and Part II (Colorado Mountains).

8. Data Tabulations

OHIO HILLS B= 10KM SITE 1
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 1

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-15-63

VALLEY BETWEEN 2 RIDGES. LIGHTLY WOODED FIELDS TOWARD TRANSMITTER.

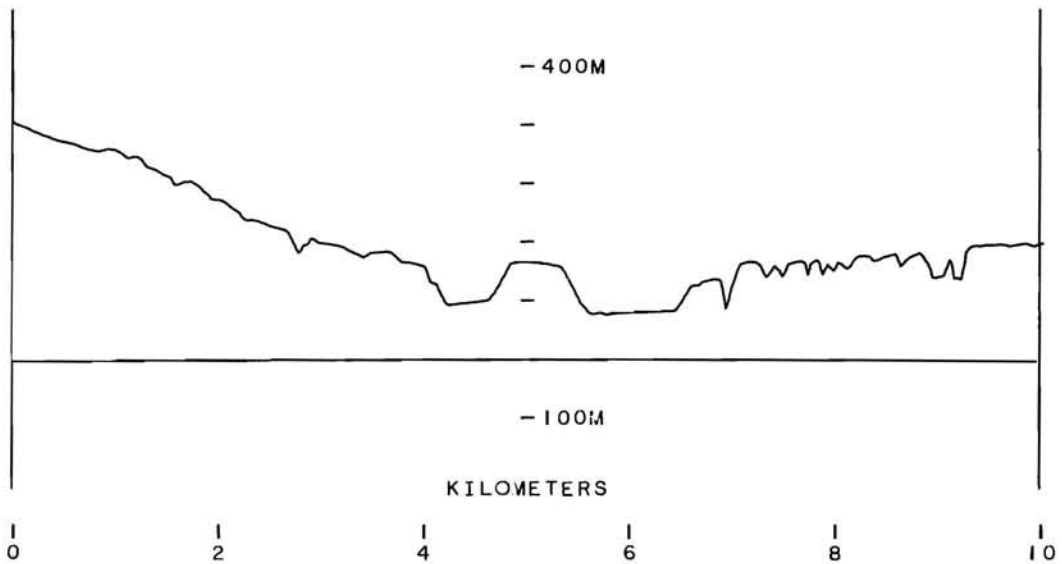
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|-------|------|-------|-------|------|
| (HLLS 10, 20,V,V, P,1) | 18.3 | ** | | -12.6 | | 0.0 | ** | ** |
| (HLLS 10, 20,V,V,AV,1) | 18.3 | ** | | -12.6 | | 0.0 | ** | ** |
| (HLLS 10, 20,V,V,AH,1) | 18.3 | ** | | -12.6 | | 0.0 | ** | ** |
| (HLLS 10, 50,V,V, P,1) | 8.3 | -137.0 | | -12.5 | 0.8 | 132.0 | 45.6 | |
| (HLLS 10, 50,V,V, P,2) | 8.3 | -119.5 | | -5.4 | 0.9 | 121.5 | 35.0 | |
| (HLLS 10, 50,V,V,AV,1) | 8.3 | -137.0 | | -12.5 | 0.8 | 132.0 | 45.6 | |
| (HLLS 10, 50,V,V,AV,2) | 8.3 | -119.5 | | -5.4 | 0.9 | 121.5 | 35.0 | |
| (HLLS 10, 50,V,V,AH,1) | 8.3 | -137.0 | | -12.5 | 0.8 | 132.0 | 45.6 | |
| (HLLS 10, 50,V,V,AH,2) | 8.3 | -119.5 | | -5.4 | 0.9 | 121.5 | 35.0 | |
| (HLLS 10,100,V,V, P,3) | 16.0 | ** | -0.6 | -22.5 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,V,V, P,6) | 16.0 | -117.9 | -0.6 | -8.6 | 0.0 | 2.7 | 122.0 | 29.6 |
| (HLLS 10,100,V,V, P,9) | 16.0 | -115.4 | -0.6 | -5.8 | 0.0 | 2.7 | 122.3 | 29.9 |
| (HLLS 10,100,V,V,AV,3) | 16.0 | ** | -0.6 | -22.5 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,V,V,AV,6) | 16.0 | -117.9 | -0.6 | -8.6 | 0.0 | 2.7 | 122.0 | 29.6 |
| (HLLS 10,100,V,V,AV,9) | 16.0 | -115.4 | -0.6 | -5.8 | 0.0 | 2.7 | 122.3 | 29.9 |
| (HLLS 10,100,V,V,AH,3) | 16.0 | ** | -0.6 | -22.5 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,V,V,AH,6) | 16.0 | -117.9 | -0.6 | -8.6 | 0.0 | 2.7 | 122.0 | 29.6 |
| (HLLS 10,100,V,V,AH,9) | 16.0 | -115.4 | -0.6 | -5.8 | 0.0 | 2.7 | 122.3 | 29.9 |
| (HLLS 10,100,H,H, P,3) | 17.3 | ** | 1.8 | -3.8 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,H,H, P,6) | 17.3 | -114.7 | 1.8 | -4.6 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS 10,100,H,H, P,9) | 17.3 | -114.1 | 1.8 | -5.5 | 0.0 | 2.7 | 125.0 | 32.6 |
| (HLLS 10,100,H,H,AV,3) | 17.3 | ** | 1.8 | -3.8 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,H,H,AV,6) | 17.3 | -114.7 | 1.8 | -4.6 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS 10,100,H,H,AV,9) | 17.3 | -114.1 | 1.8 | -5.5 | 0.0 | 2.7 | 125.0 | 32.6 |
| (HLLS 10,100,H,H,AH,3) | 17.3 | ** | 1.8 | -3.8 | 0.0 | 2.7 | ** | ** |
| (HLLS 10,100,H,H,AH,6) | 17.3 | -114.7 | 1.8 | -4.6 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS 10,100,H,H,AH,9) | 17.3 | -114.1 | 1.8 | -5.5 | 0.0 | 2.7 | 125.0 | 32.6 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 2
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 2

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-15-63

LIGHTLY WOODED ROLLING HILLS.

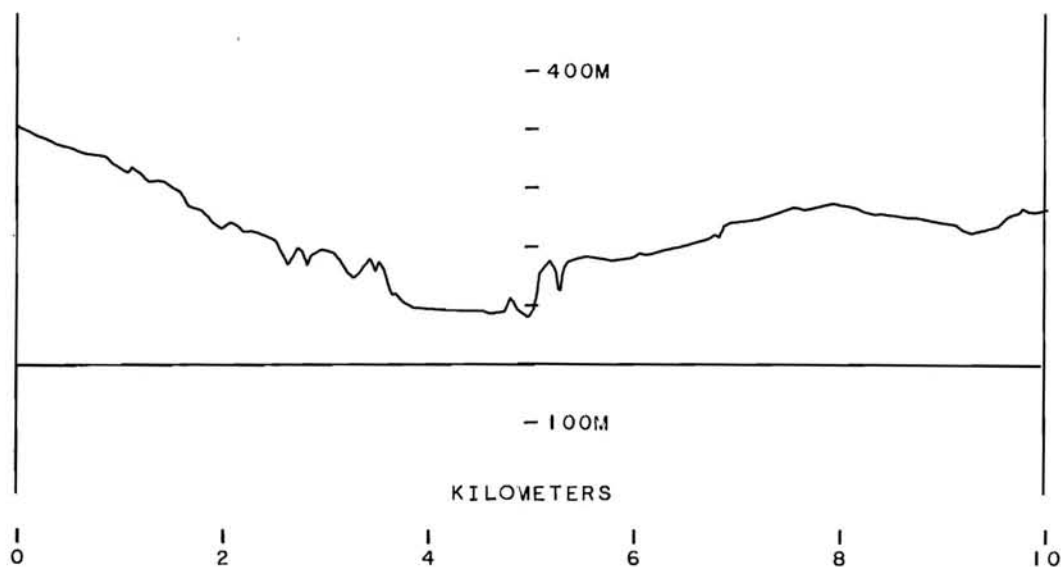
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 16.1 | ** | | -6.3 | 0.0 | | ** | ** |
| (HLLS' 10, 20,V,V,AV,1) | 16.1 | ** | | -6.3 | 0.0 | | ** | ** |
| (HLLS' 10, 20,V,V,AH,1) | 16.1 | ** | | -6.3 | 0.0 | | ** | ** |
| (HLLS' 10, 50,V,V, P,1) | 11.9 | -114.1 | | -9.4 | 0.8 | | 115.8 | 29.3 |
| (HLLS' 10, 50,V,V, P,2) | 11.9 | -107.5 | | -5.4 | 0.9 | | 113.1 | 26.6 |
| (HLLS' 10, 50,V,V,AV,1) | 11.9 | -114.1 | | -9.4 | 0.8 | | 115.8 | 29.3 |
| (HLLS' 10, 50,V,V,AV,2) | 11.9 | -107.5 | | -5.4 | 0.9 | | 113.1 | 26.6 |
| (HLLS' 10, 50,V,V,AH,1) | 11.9 | -111.9 | | -9.4 | 0.8 | | 113.6 | 27.1 |
| (HLLS' 10, 50,V,V,AH,2) | 11.9 | -108.1 | | -5.4 | 0.9 | | 113.7 | 27.2 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -109.8 | -0.7 | -4.7 | 0.0 | 2.7 | 117.7 | 25.2 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -107.5 | -0.7 | -2.6 | 0.0 | 2.7 | 117.5 | 25.0 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -105.4 | -0.7 | -6.5 | 0.0 | 2.7 | 111.5 | 19.1 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -109.8 | -0.7 | -4.7 | 0.0 | 2.7 | 117.7 | 25.2 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -107.5 | -0.7 | -2.6 | 0.0 | 2.7 | 117.5 | 25.0 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -105.4 | -0.7 | -6.5 | 0.0 | 2.7 | 111.5 | 19.1 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -111.9 | -0.7 | -4.7 | 0.0 | 2.7 | 119.8 | 27.4 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -108.7 | -0.7 | -2.6 | 0.0 | 2.7 | 118.7 | 26.3 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -108.1 | -0.7 | -6.5 | 0.0 | 2.7 | 114.2 | 21.7 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -112.9 | 1.8 | 0.0 | 0.0 | 2.7 | 129.3 | 36.9 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -111.4 | 1.8 | -6.4 | 0.0 | 2.7 | 121.4 | 29.0 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -111.9 | 1.8 | -6.7 | 0.0 | 2.7 | 121.6 | 29.2 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -112.9 | 1.8 | 0.0 | 0.0 | 2.7 | 129.3 | 36.9 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -111.4 | 1.8 | -6.4 | 0.0 | 2.7 | 121.4 | 29.0 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -111.9 | 1.8 | -6.7 | 0.0 | 2.7 | 121.6 | 29.2 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -112.4 | 1.8 | 0.0 | 0.0 | 2.7 | 128.8 | 36.4 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -111.4 | 1.8 | -6.4 | 0.0 | 2.7 | 121.4 | 29.0 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -111.4 | 1.8 | -6.7 | 0.0 | 2.7 | 121.1 | 28.7 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 3
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 3

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-15-63

ON TOP OF SMALL HILL, ROLLING HILLS TOWARD TRANSMITTER, LIGHT BUSHES
100FT TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 15.0 | ** | | -5.1 | | 0.0 | ** | ** |
| (HLLS' 10, 20,V,V,AV,1) | 15.0 | ** | | -5.1 | | 0.0 | ** | ** |
| (HLLS' 10, 20,V,V,AH,1) | 15.0 | ** | | -5.1 | | 0.0 | ** | ** |
| (HLLS' 10, 50,V,V, P,1) | 15.7 | -114.7 | | -7.3 | | 0.8 | 122.3 | 35.9 |
| (HLLS' 10, 50,V,V, P,2) | 15.7 | -120.1 | | -5.2 | | 0.9 | 129.7 | 43.2 |
| (HLLS' 10, 50,V,V,AV,1) | 15.7 | -114.7 | | -7.3 | | 0.8 | 122.3 | 35.9 |
| (HLLS' 10, 50,v,v,AV,2) | 15.7 | -120.1 | | -5.2 | | 0.9 | 129.7 | 43.2 |
| (HLLS' 10, 50,V,V,AH,1) | 15.7 | -115.4 | | -7.3 | | 0.8 | 123.0 | 36.6 |
| (HLLS' 10, 50,V,V,AH,2) | 15.7 | -111.0 | | -5.2 | | 0.9 | 120.6 | 34.1 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -137.0 | -0.7 | -4.4 | 0.0 | 2.7 | 145.2 | 52.8 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -115.4 | -0.7 | -2.3 | 0.0 | 2.7 | 125.7 | 33.3 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -111.0 | -0.7 | -6.4 | 0.0 | 2.7 | 117.2 | 24.8 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -137.0 | -0.7 | -4.4 | 0.0 | 2.7 | 145.2 | 52.8 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -115.4 | -0.7 | -2.3 | 0.0 | 2.7 | 125.7 | 33.3 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -111.0 | -0.7 | -6.4 | 0.0 | 2.7 | 117.2 | 24.8 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -121.4 | -0.7 | -4.4 | 0.0 | 2.7 | 129.7 | 37.2 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -117.0 | -0.7 | -2.3 | 0.0 | 2.7 | 127.3 | 34.9 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -114.1 | -0.7 | -6.4 | 0.0 | 2.7 | 120.3 | 27.8 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -118.9 | 1.8 | -1.0 | 0.0 | 2.7 | 134.4 | 41.9 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -106.6 | 1.8 | -6.2 | 0.0 | 2.7 | 116.9 | 24.4 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -107.5 | 1.8 | -7.0 | 0.0 | 2.7 | 116.9 | 24.4 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -118.9 | 1.8 | -1.0 | 0.0 | 2.7 | 134.4 | 41.9 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -106.6 | 1.8 | -6.2 | 0.0 | 2.7 | 116.9 | 24.4 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -107.5 | 1.8 | -7.0 | 0.0 | 2.7 | 116.9 | 24.4 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -112.9 | 1.8 | -1.0 | 0.0 | 2.7 | 128.3 | 35.9 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -107.2 | 1.8 | -6.2 | 0.0 | 2.7 | 117.4 | 24.9 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -109.8 | 1.8 | -7.0 | 0.0 | 2.7 | 119.2 | 26.7 |

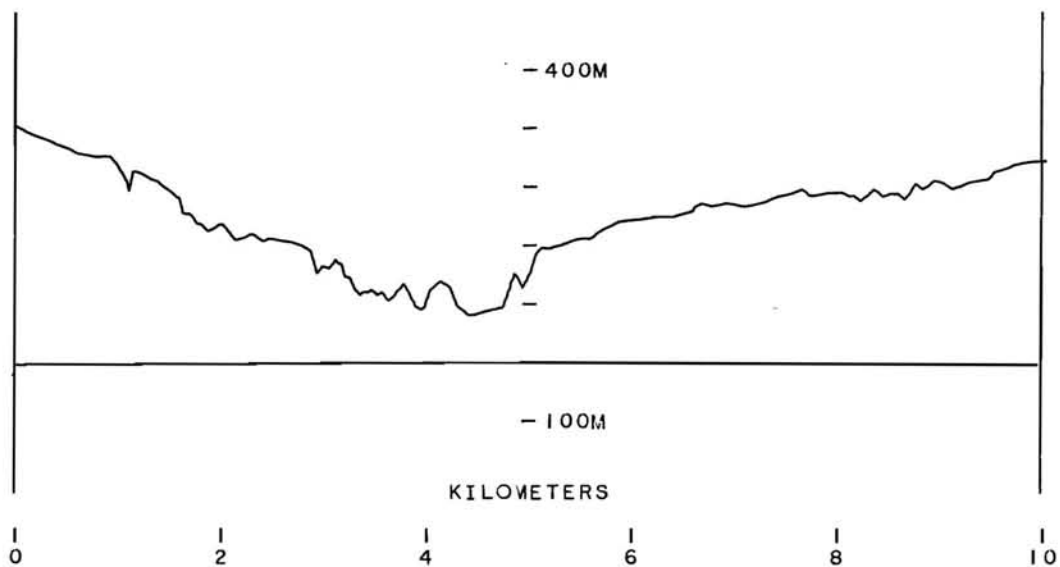
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 4

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 4
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-19-63

LEVEL TERRAIN. HEAVY WOODS AND HIGH POWER LINES TOWARD TRANSMITTER,
SCHOOL TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 13.3 | ** | | -12.4 | | 0.0 | ** | ** |
| (HLLS, 10, 20,V,V,AV,1) | 13.3 | ** | | -12.4 | | 0.0 | ** | ** |
| (HLLS, 10, 20,V,V,AH,1) | 13.3 | ** | | -12.4 | | 0.0 | ** | ** |
| | | | | | | | | |
| (HLLS, 10, 50,V,V, P,1) | 16.5 | -117.0 | | -10.2 | | 0.8 | 122.5 | 36.1 |
| (HLLS, 10, 50,V,V, P,2) | 16.5 | -111.9 | | -5.5 | | 0.9 | 122.0 | 35.5 |
| (HLLS, 10, 50,V,V,AV,1) | 16.5 | -114.1 | | -10.2 | | 0.8 | 119.6 | 33.1 |
| (HLLS, 10, 50,V,V,AV,2) | 16.5 | -107.8 | | -5.5 | | 0.9 | 117.9 | 31.4 |
| (HLLS, 10, 50,V,V,AH,1) | 16.5 | -123.0 | | -10.2 | | 0.8 | 128.5 | 42.1 |
| (HLLS, 10, 50,V,V,AH,2) | 16.5 | -115.4 | | -5.5 | | 0.9 | 125.5 | 39.1 |
| | | | | | | | | |
| (HLLS, 10,100,V,V, P,3) | 16.0 | -113.5 | -0.6 | -23.4 | 0.0 | 2.7 | 102.8 | 10.3 |
| (HLLS, 10,100,V,V, P,6) | 16.0 | -116.2 | -0.6 | -8.0 | 0.0 | 2.7 | 120.9 | 28.4 |
| (HLLS, 10,100,V,V, P,9) | 16.0 | -118.4 | -0.6 | -5.9 | 0.0 | 2.7 | 125.2 | 32.8 |
| (HLLS, 10,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 10,100,H,H, P,3) | 17.3 | -118.7 | 1.8 | -4.9 | 0.0 | 2.7 | 130.2 | 37.8 |
| (HLLS, 10,100,H,H, P,6) | 17.3 | -112.9 | 1.8 | -4.4 | 0.0 | 2.7 | 124.9 | 32.5 |
| (HLLS, 10,100,H,H, P,9) | 17.3 | -115.4 | 1.8 | -5.3 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS, 10,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

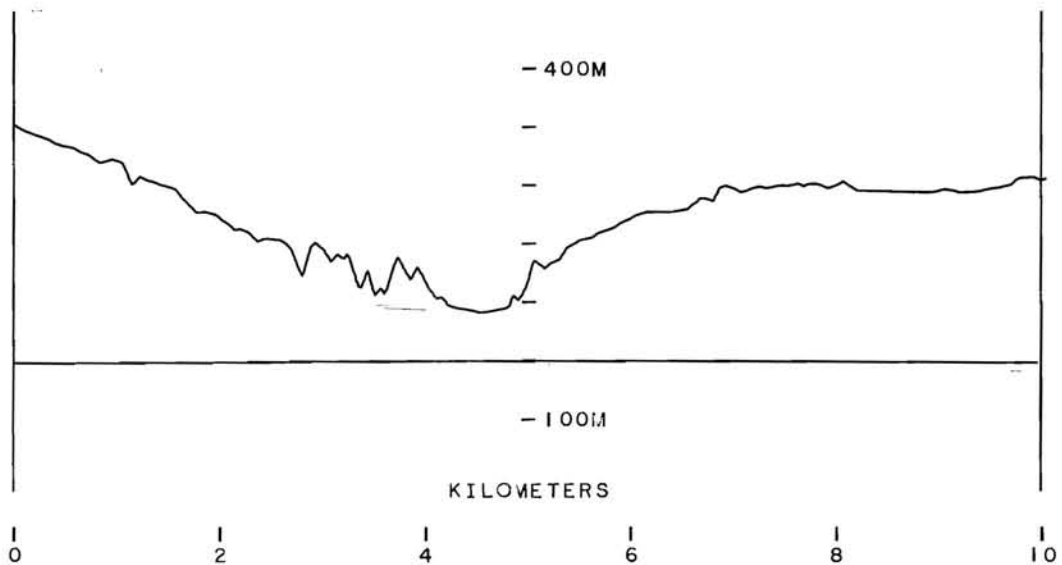
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 5
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 5

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-19-63

LEVEL GROUND, LIGHT TREES TOWARD TRANSMITTER, PENN RAILROAD TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 11.9 | ** | | -13.2 | | 0.0 | ** | ** |
| (HLLS' 10, 20,V,V,AV,1) | 11.9 | ** | | -13.2 | | 0.0 | ** | ** |
| (HLLS' 10, 20,V,V,AH,1) | 11.9 | ** | | -13.2 | | 0.0 | ** | ** |
| (HLLS' 10, 50,V,V, P,1) | 16.3 | -116.8 | | -14.4 | | 0.8 | 117.9 | 31.5 |
| (HLLS' 10, 50,V,V, P,2) | 16.3 | -99.0 | | -5.4 | | 0.9 | 109.0 | 22.6 |
| (HLLS' 10, 50,V,V,AV,1) | 16.3 | -119.5 | | -14.4 | | 0.8 | 120.6 | 34.1 |
| (HLLS' 10, 50,V,V,AV,2) | 16.3 | -107.5 | | -5.4 | | 0.9 | 117.5 | 31.0 |
| (HLLS' 10, 50,V,V,AH,1) | 16.3 | -112.4 | | -14.4 | | 0.8 | 113.5 | 27.0 |
| (HLLS' 10, 50,V,V,AH,2) | 16.3 | -108.7 | | -5.4 | | 0.9 | 118.7 | 32.3 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -117.6 | -0.6 | -19.5 | 0.0 | 2.7 | 110.9 | 18.4 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -116.2 | -0.6 | -8.7 | 0.0 | 2.7 | 120.2 | 27.7 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -106.4 | -0.6 | -6.0 | 0.0 | 2.7 | 113.1 | 20.6 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -114.7 | -0.6 | -19.5 | 0.0 | 2.7 | 107.9 | 15.5 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -115.1 | -0.6 | -8.7 | 0.0 | 2.7 | 119.1 | 26.6 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -113.2 | -0.6 | -6.0 | 0.0 | 2.7 | 119.9 | 27.5 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -116.2 | -0.6 | -19.5 | 0.0 | 2.7 | 109.4 | 16.9 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -111.4 | -0.6 | -8.7 | 0.0 | 2.7 | 115.4 | 23.0 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -107.8 | -0.6 | -6.0 | 0.0 | 2.7 | 114.5 | 22.0 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -117.4 | 1.8 | -2.4 | 0.0 | 2.7 | 131.5 | 39.0 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -118.4 | 1.8 | -5.1 | 0.0 | 2.7 | 129.7 | 37.3 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -118.4 | 1.8 | -5.9 | 0.0 | 2.7 | 128.9 | 36.5 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -114.1 | 1.8 | -2.4 | 0.0 | 2.7 | 128.1 | 35.7 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -118.1 | 1.8 | -5.1 | 0.0 | 2.7 | 129.4 | 37.0 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -114.2 | 1.8 | -5.9 | 0.0 | 2.7 | 124.7 | 32.3 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -110.6 | 1.8 | -2.4 | 0.0 | 2.7 | 124.6 | 32.1 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -111.2 | 1.8 | -5.1 | 0.0 | 2.7 | 122.5 | 30.1 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -117.0 | 1.8 | -5.9 | 0.0 | 2.7 | 127.5 | 35.1 |

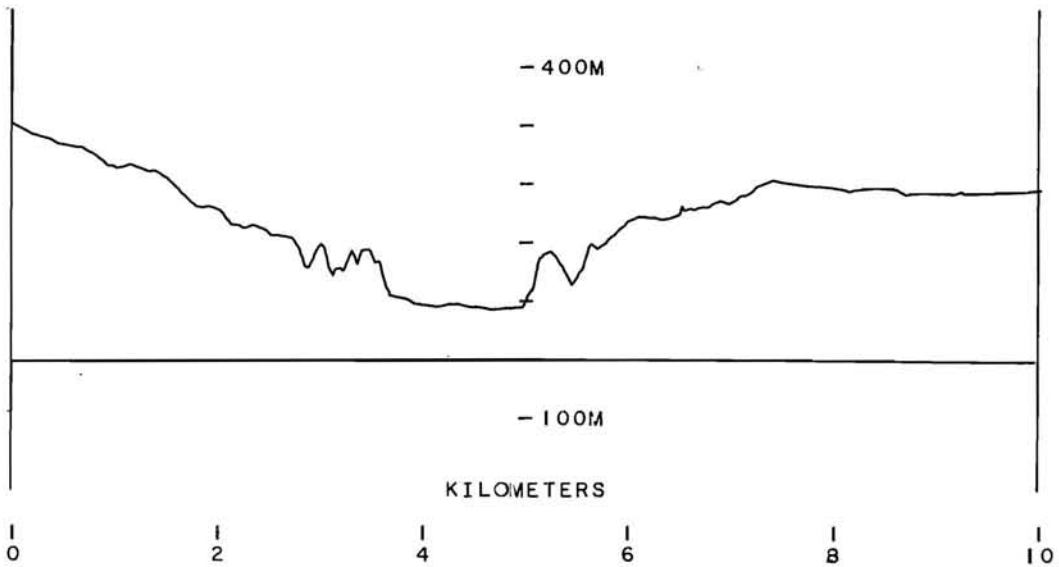
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 6

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 6

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-19-63

LEVEL GROUND, CLEAR TO TRANSMITTER, HIGH TENSION WIRES LEFT OF TRUCK.

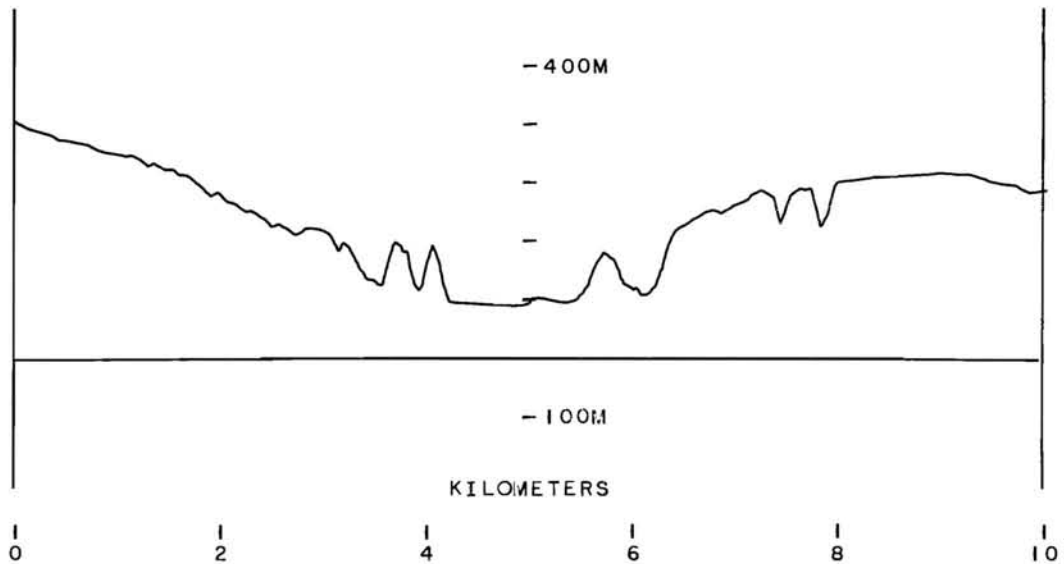
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS 10, 20,V,V, P,1) | 10.8 | ** | | -13.0 | 0.0 | 0.0 | ** | ** |
| (HLLS 10, 20,V,V,AV,1) | 10.8 | ** | | -13.0 | 0.0 | 0.0 | ** | ** |
| (HLLS 10, 20,V,V,AH,1) | 10.8 | ** | | -13.0 | 0.0 | 0.0 | ** | ** |
| (HLLS 10, 50,V,V, P,1) | 15.4 | -115.3 | | -7.7 | 0.8 | 0.8 | 122.2 | 35.7 |
| (HLLS 10, 50,V,V, P,2) | 15.4 | -106.1 | | -5.5 | 0.9 | 0.9 | 115.1 | 28.7 |
| (HLLS 10, 50,V,V,AV,1) | 15.4 | -112.4 | | -7.7 | 0.8 | 0.8 | 119.3 | 32.8 |
| (HLLS 10, 50,V,V,AV,2) | 15.4 | -104.1 | | -5.5 | 0.9 | 0.9 | 113.1 | 26.7 |
| (HLLS 10, 50,V,V,AH,1) | 15.4 | -109.8 | | -7.7 | 0.8 | 0.8 | 116.7 | 30.2 |
| (HLLS 10, 50,V,V,AH,2) | 15.4 | -99.2 | | -5.5 | 0.9 | 0.9 | 108.2 | 21.7 |
| (HLLS 10,100,V,V, P,3) | 16.0 | -121.4 | -0.7 | -13.4 | 0.0 | 2.7 | 120.7 | 28.2 |
| (HLLS 10,100,V,V, P,6) | 16.0 | -120.2 | -0.7 | -5.9 | 0.0 | 2.7 | 126.9 | 34.5 |
| (HLLS 10,100,V,V, P,9) | 16.0 | -119.5 | -0.7 | -6.9 | 0.0 | 2.7 | 125.2 | 32.8 |
| (HLLS 10,100,V,V,AV,3) | 16.0 | -117.9 | -0.7 | -13.4 | 0.0 | 2.7 | 117.1 | 24.7 |
| (HLLS 10,100,V,V,AV,6) | 16.0 | -111.2 | -0.7 | -5.9 | 0.0 | 2.7 | 117.9 | 25.5 |
| (HLLS 10,100,V,V,AV,9) | 16.0 | -109.6 | -0.7 | -6.9 | 0.0 | 2.7 | 115.3 | 22.8 |
| (HLLS 10,100,V,V,AH,3) | 16.0 | -124.1 | -0.7 | -13.4 | 0.0 | 2.7 | 123.4 | 30.9 |
| (HLLS 10,100,V,V,AH,6) | 16.0 | -117.4 | -0.7 | -5.9 | 0.0 | 2.7 | 124.2 | 31.7 |
| (HLLS 10,100,V,V,AH,9) | 16.0 | -115.4 | -0.7 | -6.9 | 0.0 | 2.7 | 121.1 | 28.7 |
| (HLLS 10,100,H,H, P,3) | 17.3 | -122.7 | 1.8 | -5.7 | 0.0 | 2.7 | 133.4 | 41.0 |
| (HLLS 10,100,H,H, P,6) | 17.3 | -111.2 | 1.8 | -4.5 | 0.0 | 2.7 | 123.1 | 30.7 |
| (HLLS 10,100,H,H, P,9) | 17.3 | -109.0 | 1.8 | -5.2 | 0.0 | 2.7 | 120.3 | 27.8 |
| (HLLS 10,100,H,H,AV,3) | 17.3 | -128.1 | 1.8 | -5.7 | 0.0 | 2.7 | 138.8 | 46.3 |
| (HLLS 10,100,H,H,AV,6) | 17.3 | -115.4 | 1.8 | -4.5 | 0.0 | 2.7 | 127.3 | 34.9 |
| (HLLS 10,100,H,H,AV,9) | 17.3 | -109.0 | 1.8 | -5.2 | 0.0 | 2.7 | 120.3 | 27.8 |
| (HLLS 10,100,H,H,AH,3) | 17.3 | -119.9 | 1.8 | -5.7 | 0.0 | 2.7 | 130.6 | 38.1 |
| (HLLS 10,100,H,H,AH,6) | 17.3 | -119.0 | 1.8 | -4.5 | 0.0 | 2.7 | 131.0 | 38.5 |
| (HLLS 10,100,H,H,AH,9) | 17.3 | -109.4 | 1.8 | -5.2 | 0.0 | 2.7 | 120.6 | 28.2 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 7
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 7

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-19-63

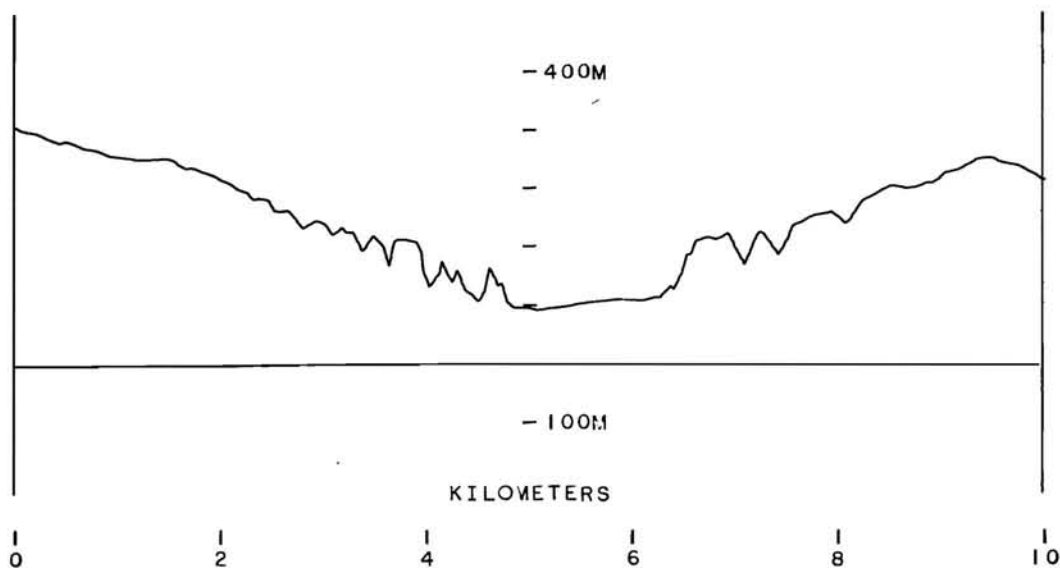
TREES TO LEFT AND RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 10.5 | -114.7 | | -13.0 | | 0.0 | 112.2 | 33.8 |
| (HLLS' 10, 20,V,V,AV,1) | 10.5 | -112.8 | | -13.0 | | 0.0 | 110.3 | 31.9 |
| (HLLS' 10, 20,V,V,AH,1) | 10.5 | -113.5 | | -13.0 | | 0.0 | 111.0 | 32.5 |
| (HLLS' 10, 50,V,V, P,1) | 14.0 | -120.3 | | -7.4 | | 0.8 | 126.1 | 39.7 |
| (HLLS' 10, 50,V,V, P,2) | 14.0 | -114.6 | | -5.5 | | 0.9 | 122.2 | 35.7 |
| (HLLS' 10, 50,V,V,AV,1) | 14.0 | -117.4 | | -7.4 | | 0.8 | 123.2 | 36.8 |
| (HLLS' 10, 50,V,V,AV,2) | 14.0 | -116.2 | | -5.5 | | 0.9 | 123.8 | 37.3 |
| (HLLS' 10, 50,V,V,AH,1) | 14.0 | -115.4 | | -7.4 | | 0.8 | 121.2 | 34.8 |
| (HLLS' 10, 50,V,V,AH,2) | 14.0 | -113.5 | | -5.5 | | 0.9 | 121.1 | 34.6 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -135.4 | -0.7 | -10.5 | 0.0 | 2.7 | 137.5 | 45.1 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -121.7 | -0.7 | -4.6 | 0.0 | 2.7 | 129.8 | 37.3 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -124.5 | -0.7 | -7.2 | 0.0 | 2.7 | 130.0 | 37.5 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -128.1 | -0.7 | -10.5 | 0.0 | 2.7 | 130.2 | 37.7 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -121.7 | -0.7 | -4.6 | 0.0 | 2.7 | 129.8 | 37.3 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -118.4 | -0.7 | -7.2 | 0.0 | 2.7 | 123.8 | 31.4 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -127.5 | -0.7 | -10.5 | 0.0 | 2.7 | 129.6 | 37.1 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -123.4 | -0.7 | -4.6 | 0.0 | 2.7 | 131.4 | 38.9 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -121.7 | -0.7 | -7.2 | 0.0 | 2.7 | 127.2 | 34.7 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -125.4 | 1.7 | -5.4 | 0.0 | 2.7 | 136.3 | 43.9 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -117.7 | 1.7 | -4.8 | 0.0 | 2.7 | 129.2 | 36.8 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -119.5 | 1.7 | -5.2 | 0.0 | 2.7 | 130.6 | 38.2 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -117.2 | 1.7 | -5.4 | 0.0 | 2.7 | 128.1 | 35.6 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -115.6 | 1.7 | -4.8 | 0.0 | 2.7 | 127.1 | 34.6 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -127.5 | 1.7 | -5.2 | 0.0 | 2.7 | 138.6 | 46.1 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -123.9 | 1.7 | -5.4 | 0.0 | 2.7 | 134.9 | 42.4 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -114.7 | 1.7 | -4.8 | 0.0 | 2.7 | 126.2 | 33.8 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -113.5 | 1.7 | -5.2 | 0.0 | 2.7 | 124.6 | 32.2 |

OHIO HILLS B= 10KM SITE 8
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 8

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-20-63

GULF COURSE AND POWER LINES TO RIGHT OF TRUCK, TOWARD TRANSMITTER,
OPEN COUNTRY TO LEFT, GENTLE ROLLING HILLS.

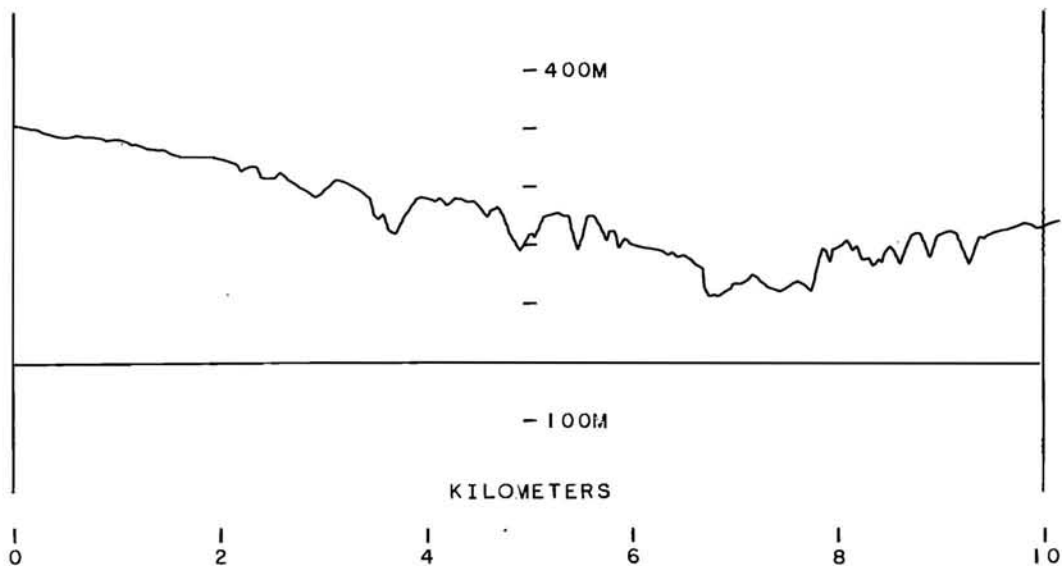
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 11.7 | -101.7 | | -12.7 | | 0.0 | 100.7 | 22.3 |
| (HLLS' 10, 20,V,V,AV,1) | 11.7 | -103.7 | | -12.7 | | 0.0 | 102.7 | 24.3 |
| (HLLS' 10, 20,V,V,AH,1) | 11.7 | -103.4 | | -12.7 | | 0.0 | 102.4 | 23.9 |
| (HLLS' 10, 50,V,V, P,1) | 11.2 | -112.7 | | -7.4 | | 0.8 | 115.7 | 29.2 |
| (HLLS' 10, 50,V,V, P,2) | 11.2 | -116.6 | | -5.4 | | 0.9 | 121.5 | 35.0 |
| (HLLS' 10, 50,V,V,AV,1) | 11.2 | -115.8 | | -7.4 | | 0.8 | 118.8 | 32.7 |
| (HLLS' 10, 50,V,V,AV,2) | 11.2 | -118.9 | | -5.4 | | 0.9 | 123.8 | 37.4 |
| (HLLS' 10, 50,V,V,AH,1) | 11.2 | -112.0 | | -7.4 | | 0.8 | 115.0 | 28.5 |
| (HLLS' 10, 50,V,V,AH,2) | 11.2 | -115.6 | | -5.4 | | 0.9 | 120.5 | 34.0 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -117.9 | -0.7 | -9.0 | 0.0 | 2.7 | 121.5 | 29.1 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -111.9 | -0.7 | -3.4 | 0.0 | 2.7 | 121.1 | 28.7 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -107.5 | -0.7 | -6.6 | 0.0 | 2.7 | 113.5 | 21.0 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -117.0 | -0.7 | -9.0 | 0.0 | 2.7 | 120.6 | 28.2 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -108.1 | -0.7 | -3.4 | 0.0 | 2.7 | 117.3 | 24.8 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -106.1 | -0.7 | -6.6 | 0.0 | 2.7 | 112.1 | 19.7 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -115.4 | -0.7 | -9.0 | 0.0 | 2.7 | 119.0 | 26.6 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -110.6 | -0.7 | -3.4 | 0.0 | 2.7 | 119.8 | 27.3 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -108.1 | -0.7 | -6.6 | 0.0 | 2.7 | 114.1 | 21.6 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -128.1 | 1.6 | -4.8 | 0.0 | 2.7 | 139.5 | 47.0 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -116.6 | 1.6 | -5.1 | 0.0 | 2.7 | 127.7 | 35.7 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -115.8 | 1.6 | -5.2 | 0.0 | 2.7 | 126.8 | 34.4 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -126.9 | 1.6 | -4.8 | 0.0 | 2.7 | 138.3 | 45.9 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -118.4 | 1.6 | -5.1 | 0.0 | 2.7 | 129.5 | 37.1 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -115.5 | 1.6 | -5.2 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -126.1 | 1.6 | -4.8 | 0.0 | 2.7 | 137.5 | 45.1 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -129.0 | 1.6 | -5.1 | 0.0 | 2.7 | 140.2 | 47.7 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -119.5 | 1.6 | -5.2 | 0.0 | 2.7 | 130.5 | 38.1 |

OHIO HILLS B= 10KM SITE 9

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS H= 10KM SITE 9

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-20-63

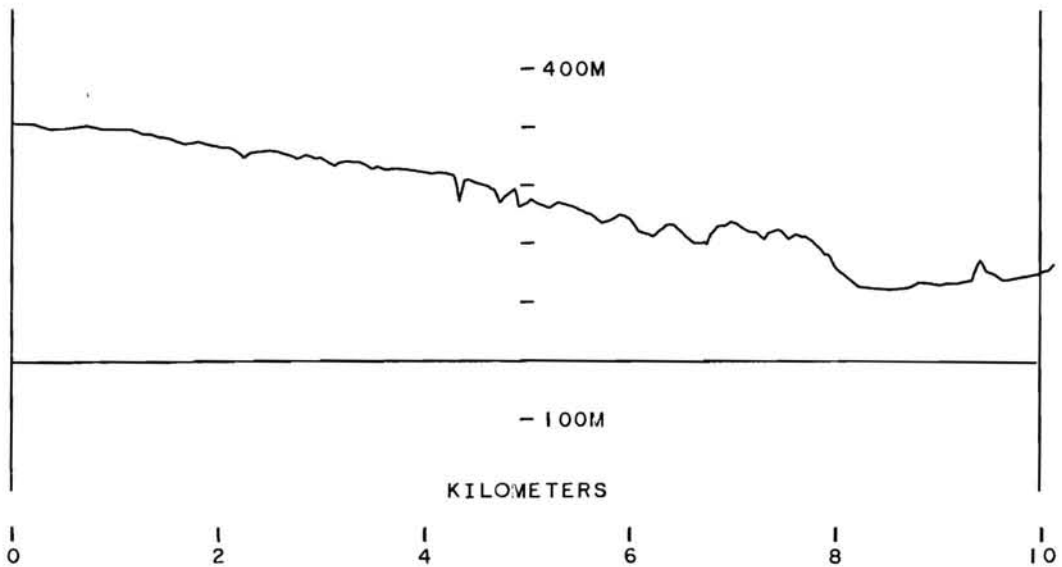
POWER LINES TO LEFT TOWARD TRANSMITTER. LIGHT TREES TO RIGHT. ROLLING HILLS.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 14.8 | -108.4 | | -5.4 | | 0.0 | 117.8 | 39.3 |
| (HLLS' 10, 20,V,V,AV,1) | 14.8 | -110.2 | | -5.4 | | 0.0 | 119.6 | 41.1 |
| (HLLS' 10, 20,V,V,AH,1) | 14.8 | -110.2 | | -5.4 | | 0.0 | 119.6 | 41.1 |
| (HLLS' 10, 50,V,V, P,1) | 9.1 | -121.6 | | -6.7 | | 0.8 | 123.2 | 36.7 |
| (HLLS' 10, 50,V,V, P,2) | 9.1 | -112.4 | | -5.7 | | 0.9 | 114.9 | 28.4 |
| (HLLS' 10, 50,V,V,AV,1) | 9.1 | -121.4 | | -6.7 | | 0.8 | 123.0 | 36.6 |
| (HLLS' 10, 50,V,V,AV,2) | 9.1 | -115.6 | | -5.7 | | 0.9 | 118.1 | 31.6 |
| (HLLS' 10, 50,V,V,AH,1) | 9.1 | -119.5 | | -6.7 | | 0.8 | 121.1 | 34.6 |
| (HLLS' 10, 50,V,V,AH,2) | 9.1 | -114.4 | | -5.7 | | 0.9 | 116.9 | 30.4 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -119.4 | -0.6 | -7.5 | 0.0 | 2.7 | 124.6 | 32.2 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -112.9 | -0.6 | -3.9 | 0.0 | 2.7 | 121.7 | 29.3 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -108.1 | -0.6 | -5.7 | 0.0 | 2.7 | 115.1 | 22.6 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -119.5 | -0.6 | -7.5 | 0.0 | 2.7 | 124.7 | 32.3 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -113.5 | -0.6 | -3.9 | 0.0 | 2.7 | 122.3 | 29.8 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -109.0 | -0.6 | -5.7 | 0.0 | 2.7 | 116.1 | 23.6 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -119.9 | -0.6 | -7.5 | 0.0 | 2.7 | 125.1 | 32.6 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -113.2 | -0.6 | -3.9 | 0.0 | 2.7 | 122.0 | 29.6 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -109.0 | -0.6 | -5.7 | 0.0 | 2.7 | 116.1 | 23.6 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -127.5 | 1.4 | -8.4 | 0.0 | 2.7 | 135.1 | 42.6 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -113.2 | 1.4 | -6.3 | 0.0 | 2.7 | 122.9 | 30.5 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -108.4 | 1.4 | -6.5 | 0.0 | 2.7 | 117.9 | 25.4 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -121.2 | 1.4 | -8.4 | 0.0 | 2.7 | 128.8 | 36.3 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -114.2 | 1.4 | -6.3 | 0.0 | 2.7 | 123.9 | 31.5 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -108.7 | 1.4 | -6.5 | 0.0 | 2.7 | 118.2 | 25.8 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -123.4 | 1.4 | -8.4 | 0.0 | 2.7 | 131.0 | 38.5 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -115.4 | 1.4 | -6.3 | 0.0 | 2.7 | 125.1 | 32.7 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -109.0 | 1.4 | -6.5 | 0.0 | 2.7 | 118.6 | 26.1 |

OHIO HILLS B= 10KM SITE 10
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS R= 10KM SITE 10

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-20-63

HIGH HILL, HEAVY TREES, AND POWER LINES TOWARD TRANSMITTER, TREES TO RIGHT OF TRUCK.

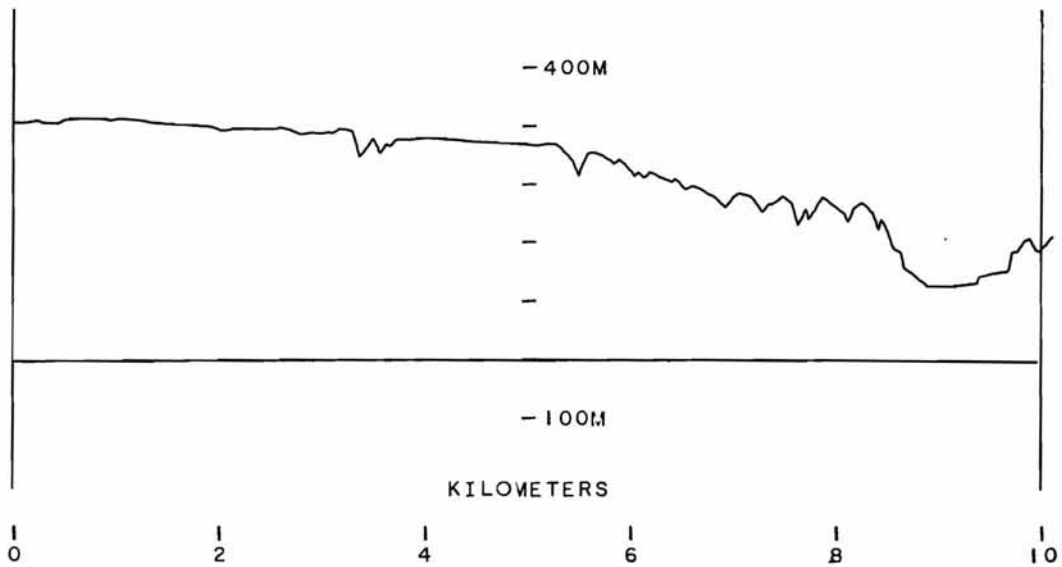
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 15.0 | -114.7 | | -13.0 | | 0.0 | 116.7 | 38.3 |
| (HLLS, 10, 20,V,V,AV,1) | 15.0 | -116.0 | | -13.0 | | 0.0 | 118.0 | 39.6 |
| (HLLS, 10, 20,V,V,AH,1) | 15.0 | -114.7 | | -13.0 | | 0.0 | 116.7 | 38.3 |
| (HLLS, 10, 50,V,V, P,1) | 9.9 | -124.1 | | -8.1 | | 0.8 | 125.1 | 38.7 |
| (HLLS, 10, 50,V,V, P,2) | 9.9 | -117.0 | | -5.5 | | 0.9 | 120.5 | 34.1 |
| (HLLS, 10, 50,V,V,AV,1) | 9.9 | -123.9 | | -8.1 | | 0.8 | 124.9 | 38.5 |
| (HLLS, 10, 50,V,V,AV,2) | 9.9 | -119.2 | | -5.5 | | 0.9 | 122.7 | 36.2 |
| (HLLS, 10, 50,V,V,AH,1) | 9.9 | -124.5 | | -8.1 | | 0.8 | 125.5 | 39.1 |
| (HLLS, 10, 50,V,V,AH,2) | 9.9 | -115.4 | | -5.5 | | 0.9 | 118.9 | 32.5 |
| (HLLS, 10,100,V,V, P,3) | 16.0 | -115.6 | -0.5 | -14.7 | 0.0 | 2.7 | 113.7 | 21.2 |
| (HLLS, 10,100,V,V, P,6) | 16.0 | -119.6 | -0.5 | -6.2 | 0.0 | 2.7 | 117.2 | 24.7 |
| (HLLS, 10,100,V,V, P,9) | 16.0 | -114.7 | -0.5 | -6.7 | 0.0 | 2.7 | 120.8 | 28.4 |
| (HLLS, 10,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H, P,3) | 17.3 | -119.5 | 1.0 | -5.7 | 0.0 | 2.7 | 129.4 | 37.0 |
| (HLLS, 10,100,H,H, P,6) | 17.3 | -111.9 | 1.0 | -4.4 | 0.0 | 2.7 | 123.1 | 30.7 |
| (HLLS, 10,100,H,H, P,9) | 17.3 | -112.4 | 1.0 | -5.2 | 0.0 | 2.7 | 122.8 | 30.4 |
| (HLLS, 10,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 11
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 11

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-20-63

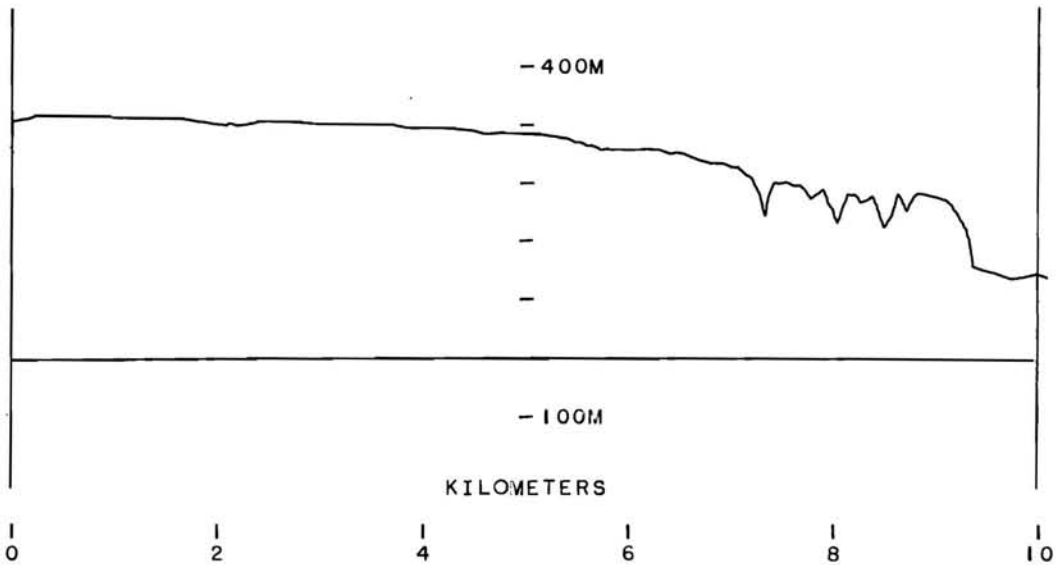
HILLY TERRAIN, SITE ON TOP OF HILL, TREES, POWER LINES TOWARD TRANS-
MITTER. PHONE LINES AND LIGHT TREES TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS 10, 20,V,V, P,1) | 15.0 | -117.4 | | -11.9 | | 0.0 | 120.5 | 42.1 |
| (HLLS 10, 20,V,V,AV,1) | 15.0 | -116.6 | | -11.9 | | 0.0 | 119.7 | 41.2 |
| (HLLS 10, 20,V,V,AH,1) | 15.0 | -116.2 | | -11.9 | | 0.0 | 119.3 | 40.8 |
| (HLLS 10, 50,V,V, P,1) | 10.7 | -128.4 | | -8.0 | | 0.8 | 130.3 | 43.8 |
| (HLLS 10, 50,V,V, P,2) | 10.7 | -121.6 | | -5.2 | | 0.9 | 126.2 | 39.7 |
| (HLLS 10, 50,V,V,AV,1) | 10.7 | -129.8 | | -8.0 | | 0.8 | 131.7 | 45.2 |
| (HLLS 10, 50,V,V,AV,2) | 10.7 | -131.0 | | -5.2 | | 0.9 | 135.6 | 49.1 |
| (HLLS 10, 50,V,V,AH,1) | 10.7 | -132.4 | | -8.0 | | 0.8 | 134.3 | 47.8 |
| (HLLS 10, 50,V,V,AH,2) | 10.7 | -119.5 | | -5.2 | | 0.9 | 124.1 | 37.6 |
| (HLLS 10,100,V,V, P,3) | 16.0 | -130.6 | -0.4 | -7.7 | 0.0 | 2.7 | 135.8 | 43.3 |
| (HLLS 10,100,V,V, P,6) | 16.0 | -137.0 | -0.4 | -2.3 | 0.0 | 2.7 | 147.6 | 55.2 |
| (HLLS 10,100,V,V, P,9) | 16.0 | -133.5 | -0.4 | -5.4 | 0.0 | 2.7 | 141.0 | 48.5 |
| (HLLS 10,100,V,V,AV,3) | 16.0 | -127.5 | -0.4 | -7.7 | 0.0 | 2.7 | 132.7 | 40.2 |
| (HLLS 10,100,V,V,AV,6) | 16.0 | -127.2 | -0.4 | -2.3 | 0.0 | 2.7 | 137.8 | 45.3 |
| (HLLS 10,100,V,V,AV,9) | 16.0 | -129.0 | -0.4 | -5.4 | 0.0 | 2.7 | 136.6 | 44.1 |
| (HLLS 10,100,V,V,AH,3) | 16.0 | -136.2 | -0.4 | -7.7 | 0.0 | 2.7 | 141.4 | 48.9 |
| (HLLS 10,100,V,V,AH,6) | 16.0 | -132.4 | -0.4 | -2.3 | 0.0 | 2.7 | 143.0 | 50.6 |
| (HLLS 10,100,V,V,AH,9) | 16.0 | -135.4 | -0.4 | -5.4 | 0.0 | 2.7 | 142.9 | 50.5 |
| (HLLS 10,100,H,H, P,3) | 17.3 | -131.9 | 1.0 | -3.3 | 0.0 | 2.7 | 144.2 | 51.8 |
| (HLLS 10,100,H,H, P,6) | 17.3 | -125.9 | 1.0 | -5.6 | 0.0 | 2.7 | 135.9 | 43.4 |
| (HLLS 10,100,H,H, P,9) | 17.3 | -127.5 | 1.0 | -5.1 | 0.0 | 2.7 | 138.0 | 45.5 |
| (HLLS 10,100,H,H,AV,3) | 17.3 | -131.9 | 1.0 | -3.3 | 0.0 | 2.7 | 144.2 | 51.8 |
| (HLLS 10,100,H,H,AV,6) | 17.3 | -129.0 | 1.0 | -5.6 | 0.0 | 2.7 | 139.1 | 46.6 |
| (HLLS 10,100,H,H,AV,9) | 17.3 | -127.5 | 1.0 | -5.1 | 0.0 | 2.7 | 138.0 | 45.5 |
| (HLLS 10,100,H,H,AH,3) | 17.3 | -123.7 | 1.0 | -3.3 | 0.0 | 2.7 | 136.1 | 43.6 |
| (HLLS 10,100,H,H,AH,6) | 17.3 | -120.2 | 1.0 | -5.6 | 0.0 | 2.7 | 130.2 | 37.8 |
| (HLLS 10,100,H,H,AH,9) | 17.3 | -122.5 | 1.0 | -5.1 | 0.0 | 2.7 | 133.0 | 40.6 |

OHIO HILLS B = 10KM SITE 12
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 12
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-21-63

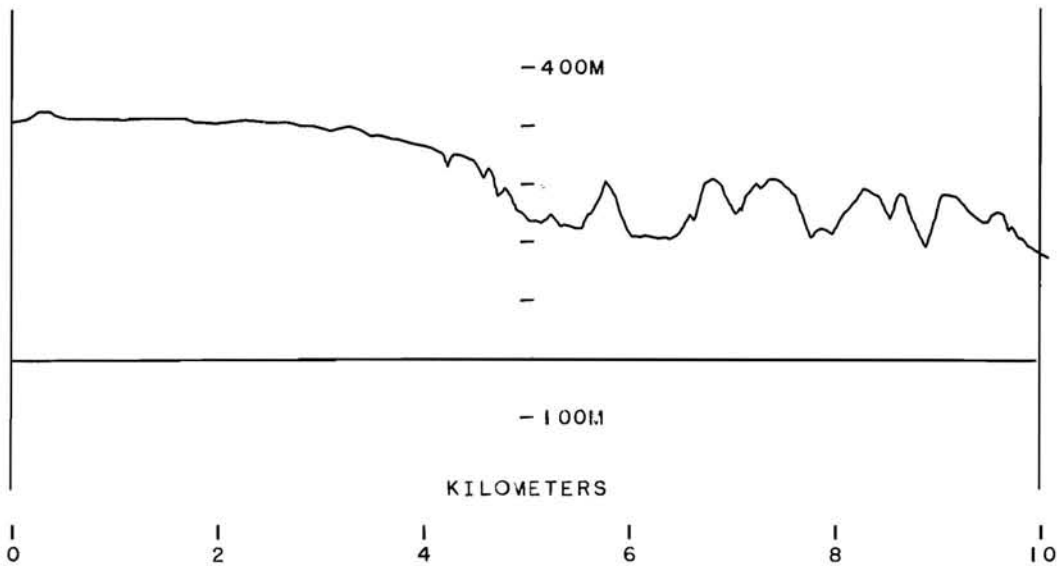
LEVEL TERRAIN, CORNFIELDS TO RIGHT AND LEFT, RAILROAD TRACKS TO RIGHT
AND POWER LINES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 14.9 | -121.7 | | -12.4 | | 0.0 | 124.2 | 45.8 |
| (HLLS' 10, 20,V,V,AV,1) | 14.9 | -125.0 | | -12.4 | | 0.0 | 127.5 | 49.0 |
| (HLLS' 10, 20,V,V,AH,1) | 14.9 | -123.0 | | -12.4 | | 0.0 | 125.5 | 47.1 |
| (HLLS' 10, 50,V,V, P,1) | 10.8 | -137.0 | | -10.8 | | 0.8 | 136.2 | 49.8 |
| (HLLS' 10, 50,V,V, P,2) | 10.8 | -126.1 | | -5.5 | | 0.9 | 130.5 | 44.1 |
| (HLLS' 10, 50,V,V,AV,1) | 10.8 | -141.4 | | -10.8 | | 0.8 | 140.6 | 54.2 |
| (HLLS' 10, 50,V,V,AV,2) | 10.8 | -131.0 | | -5.5 | | 0.9 | 135.4 | 48.9 |
| (HLLS' 10, 50,V,V,AH,1) | 10.8 | -135.4 | | -10.8 | | 0.8 | 134.6 | 48.2 |
| (HLLS' 10, 50,V,V,AH,2) | 10.8 | -131.0 | | -5.5 | | 0.9 | 135.4 | 48.9 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -135.4 | -0.4 | -23.6 | 0.0 | 2.7 | 124.7 | 32.3 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -133.5 | -0.4 | -8.2 | 0.0 | 2.7 | 138.2 | 45.7 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -126.1 | -0.4 | -5.8 | 0.0 | 2.7 | 133.2 | 40.8 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -134.7 | -0.4 | -23.6 | 0.0 | 2.7 | 124.0 | 31.6 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -134.7 | -0.4 | -8.2 | 0.0 | 2.7 | 139.4 | 47.0 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -131.0 | -0.4 | -5.8 | 0.0 | 2.7 | 138.1 | 45.7 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -135.4 | -0.4 | -23.6 | 0.0 | 2.7 | 124.7 | 32.3 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -135.4 | -0.4 | -8.2 | 0.0 | 2.7 | 140.1 | 47.7 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -135.4 | -0.4 | -5.8 | 0.0 | 2.7 | 142.5 | 50.1 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -134.1 | 1.0 | -4.7 | 0.0 | 2.7 | 145.0 | 52.6 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -129.8 | 1.0 | -4.4 | 0.0 | 2.7 | 141.0 | 48.5 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -129.8 | 1.0 | -5.4 | 0.0 | 2.7 | 140.0 | 47.5 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -132.9 | 1.0 | -4.7 | 0.0 | 2.7 | 143.8 | 51.4 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -131.9 | 1.0 | -4.4 | 0.0 | 2.7 | 143.1 | 50.7 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -135.4 | 1.0 | -5.4 | 0.0 | 2.7 | 145.6 | 53.2 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -129.4 | 1.0 | -4.7 | 0.0 | 2.7 | 140.3 | 47.9 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -126.4 | 1.0 | -4.4 | 0.0 | 2.7 | 137.6 | 45.1 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -129.4 | 1.0 | -5.4 | 0.0 | 2.7 | 139.6 | 47.2 |

OHIO HILLS B= 10KM SITE 13
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 13

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-21-63

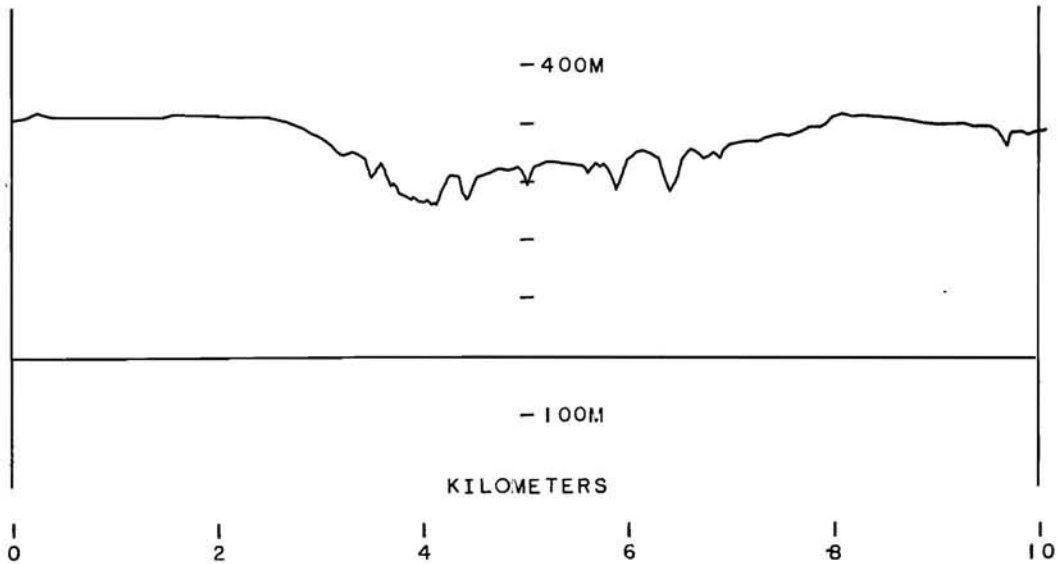
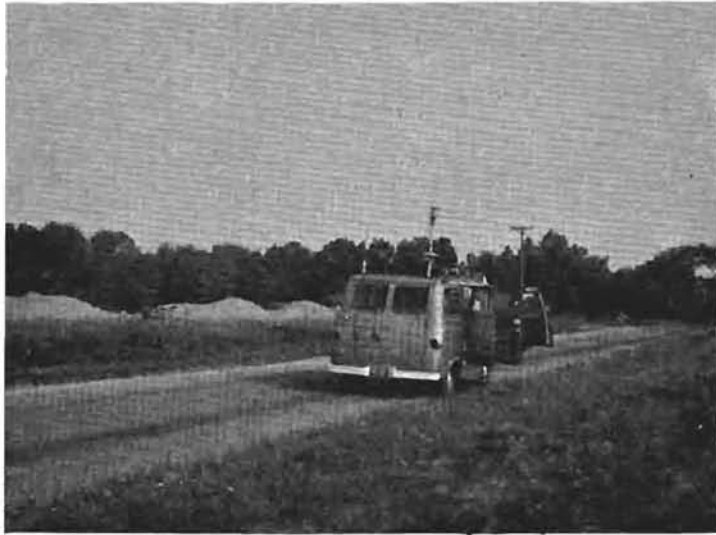
VALLEY, POWER LINES AND LIGHT TREES TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 14.7 | -118.9 | | -5.0 | | 0.0 | 128.6 | 50.2 |
| (HLLS' 10, 20,V,V,AV,1) | 14.7 | -119.2 | | -5.0 | | 0.0 | 128.9 | 50.4 |
| (HLLS' 10, 20,V,V,AH,1) | 14.7 | -121.4 | | -5.0 | | 0.0 | 131.1 | 52.7 |
| (HLLS' 10, 50,V,V, P,1) | 10.7 | -131.0 | | -3.4 | | 0.8 | 137.5 | 51.0 |
| (HLLS' 10, 50,V,V, P,2) | 10.7 | -126.1 | | -8.8 | | 0.9 | 127.1 | 40.7 |
| (HLLS' 10, 50,V,V,AV,1) | 10.7 | -135.4 | | -3.4 | | 0.8 | 141.9 | 55.5 |
| (HLLS' 10, 50,V,V,AV,2) | 10.7 | -130.6 | | -8.8 | | 0.9 | 131.6 | 45.1 |
| (HLLS' 10, 50,V,V,AH,1) | 10.7 | -132.4 | | -3.4 | | 0.8 | 138.9 | 52.4 |
| (HLLS' 10, 50,V,V,AH,2) | 10.7 | -131.0 | | -8.8 | | 0.9 | 132.0 | 45.5 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -141.4 | -0.5 | -6.0 | 0.0 | 2.7 | 148.3 | 55.8 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -137.0 | -0.5 | -3.0 | 0.0 | 2.7 | 146.8 | 54.4 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -136.2 | -0.5 | -2.8 | 0.0 | 2.7 | 146.2 | 53.7 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -132.4 | -0.5 | -6.0 | 0.0 | 2.7 | 139.2 | 46.8 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -136.2 | -0.5 | -3.0 | 0.0 | 2.7 | 146.0 | 53.5 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -133.5 | -0.5 | -2.8 | 0.0 | 2.7 | 143.5 | 51.0 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -131.0 | -0.5 | -6.0 | 0.0 | 2.7 | 137.8 | 45.4 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -132.4 | -0.5 | -3.0 | 0.0 | 2.7 | 142.2 | 49.8 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -132.4 | -0.5 | -2.8 | 0.0 | 2.7 | 142.4 | 50.0 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -136.2 | 0.9 | -6.2 | 0.0 | 2.7 | 145.5 | 53.0 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -137.0 | 0.9 | -3.0 | 0.0 | 2.7 | 149.5 | 57.1 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -140.1 | 0.9 | -3.6 | 0.0 | 2.7 | 152.0 | 59.6 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -135.4 | 0.9 | -6.2 | 0.0 | 2.7 | 144.7 | 52.3 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -131.9 | 0.9 | -3.0 | 0.0 | 2.7 | 144.4 | 52.0 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -132.9 | 0.9 | -3.6 | 0.0 | 2.7 | 144.8 | 52.4 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -136.2 | 0.9 | -6.2 | 0.0 | 2.7 | 145.5 | 53.0 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -131.4 | 0.9 | -3.0 | 0.0 | 2.7 | 143.9 | 51.5 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -130.6 | 0.9 | -3.6 | 0.0 | 2.7 | 142.5 | 50.0 |

OHIO HILLS B= 10KM SITE 14
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 14

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-21-63

LIGHT TREES TOWARD TRANSMITTER, POWER LINES TO LEFT, CLEAR TO RIGHT,
SITE ON HILLTOP.

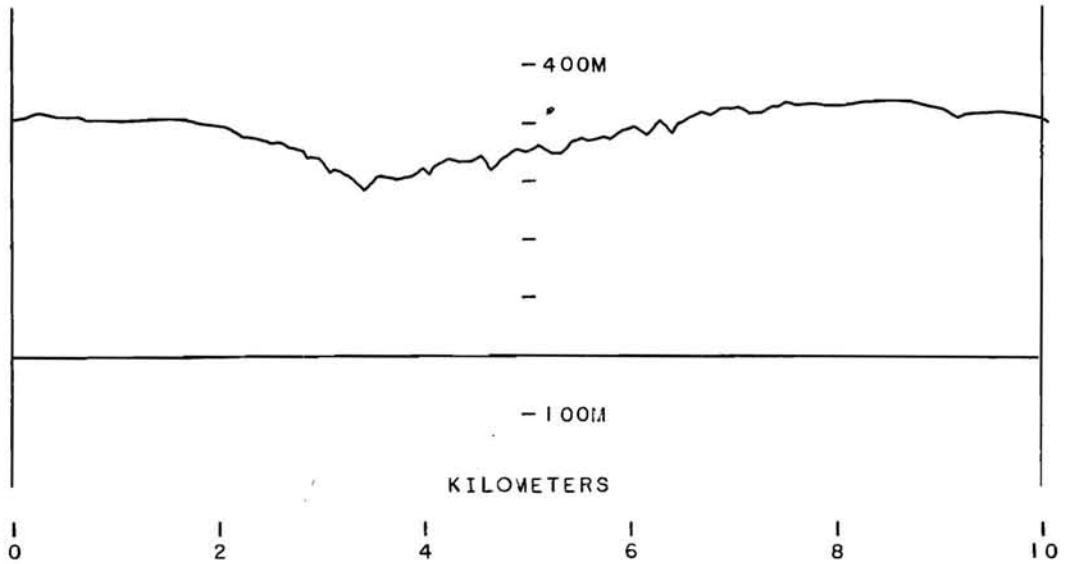
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS 10, 20,V,V, P,1) | 14.2 | -112.4 | | -5.2 | | 0.0 | 121.4 | 42.9 |
| (HLLS 10, 20,V,V,AV,1) | 14.2 | -112.7 | | -5.2 | | 0.0 | 121.7 | 43.2 |
| (HLLS 10, 20,V,V,AH,1) | 14.2 | -114.7 | | -5.2 | | 0.0 | 123.7 | 45.3 |
| (HLLS 10, 50,V,V, P,1) | 8.5 | -124.5 | | -5.2 | 0.8 | | 127.0 | 40.6 |
| (HLLS 10, 50,V,V, P,2) | 8.5 | -123.9 | | -7.7 | 0.9 | | 123.8 | 37.4 |
| (HLLS 10, 50,V,V,AV,1) | 8.5 | -121.4 | | -5.2 | 0.8 | | 123.9 | 37.5 |
| (HLLS 10, 50,V,V,AV,2) | 8.5 | -124.5 | | -7.7 | 0.9 | | 124.4 | 38.0 |
| (HLLS 10, 50,V,V,AH,1) | 8.5 | -117.9 | | -5.2 | 0.8 | | 120.4 | 34.0 |
| (HLLS 10, 50,V,V,AH,2) | 8.5 | -118.4 | | -7.7 | 0.9 | | 118.3 | 31.9 |
| (HLLS 10,100,V,V, P,3) | 16.0 | -127.5 | -0.5 | -8.0 | 0.0 | 2.7 | 132.3 | 39.8 |
| (HLLS 10,100,V,V, P,6) | 16.0 | -120.7 | -0.5 | -3.7 | 0.0 | 2.7 | 129.9 | 37.4 |
| (HLLS 10,100,V,V, P,9) | 16.0 | -117.2 | -0.5 | -3.7 | 0.0 | 2.7 | 126.3 | 33.8 |
| (HLLS 10,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H, P,3) | 17.3 | -119.5 | 0.8 | -7.2 | 0.0 | 2.7 | 127.7 | 35.3 |
| (HLLS 10,100,H,H, P,6) | 17.3 | -120.3 | 0.8 | -3.6 | 0.0 | 2.7 | 132.2 | 39.7 |
| (HLLS 10,100,H,H, P,9) | 17.3 | -125.0 | 0.8 | -4.2 | 0.0 | 2.7 | 136.2 | 43.7 |
| (HLLS 10,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 15
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 15
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-21-63

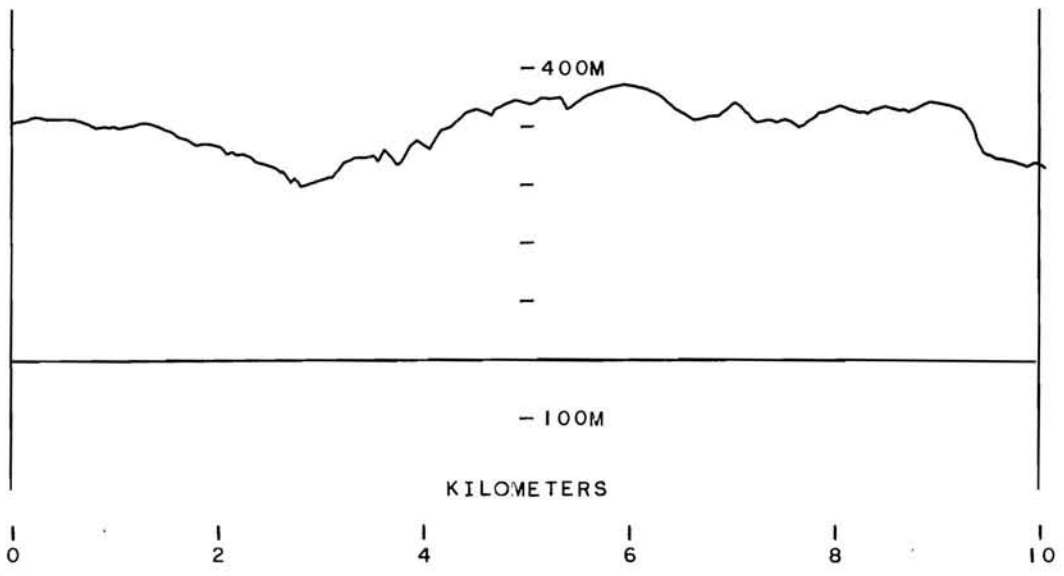
ROLLING HILLS, POWER LINES TO RIGHT, LIGHT TREES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 14.0 | -118.9 | | -5.4 | | 0.0 | 127.5 | 49.1 |
| (HLLS' 10, 20,V,V,AV,1) | 14.0 | -119.2 | | -5.4 | | 0.0 | 127.8 | 49.3 |
| (HLLS' 10, 20,V,V,AH,1) | 14.0 | -118.7 | | -5.4 | | 0.0 | 127.3 | 48.9 |
| (HLLS' 10, 50,V,V, P,1) | 8.8 | -122.2 | | -6.4 | | 0.8 | 123.8 | 37.3 |
| (HLLS' 10, 50,V,V, P,2) | 8.8 | -123.4 | | -6.1 | | 0.9 | 125.2 | 38.7 |
| (HLLS' 10, 50,V,V,AV,1) | 8.8 | -122.7 | | -6.4 | | 0.8 | 124.3 | 37.8 |
| (HLLS' 10, 50,V,V,AV,2) | 8.8 | -121.2 | | -6.1 | | 0.9 | 123.0 | 36.5 |
| (HLLS' 10, 50,V,V,AH,1) | 8.8 | -121.4 | | -6.4 | | 0.8 | 123.0 | 36.6 |
| (HLLS' 10, 50,V,V,AH,2) | 8.8 | -125.9 | | -6.1 | | 0.9 | 127.7 | 41.2 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -135.4 | -0.4 | -8.5 | 0.0 | 2.7 | 139.8 | 47.4 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -129.0 | -0.4 | -4.1 | 0.0 | 2.7 | 137.9 | 45.4 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -129.4 | -0.4 | -5.5 | 0.0 | 2.7 | 136.8 | 44.4 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -127.2 | -0.4 | -8.5 | 0.0 | 2.7 | 131.6 | 39.1 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -128.1 | -0.4 | -4.1 | 0.0 | 2.7 | 136.9 | 44.4 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -128.4 | -0.4 | -5.5 | 0.0 | 2.7 | 135.8 | 43.3 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -130.2 | -0.4 | -8.5 | 0.0 | 2.7 | 134.6 | 42.1 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -130.2 | -0.4 | -4.1 | 0.0 | 2.7 | 139.0 | 46.5 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -130.2 | -0.4 | -5.5 | 0.0 | 2.7 | 137.6 | 45.1 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -129.0 | 0.8 | -9.2 | 0.0 | 2.7 | 135.3 | 42.8 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -127.2 | 0.8 | -6.4 | 0.0 | 2.7 | 136.2 | 43.7 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -127.5 | 0.8 | -6.3 | 0.0 | 2.7 | 136.6 | 44.1 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -128.4 | 0.8 | -9.2 | 0.0 | 2.7 | 134.6 | 42.1 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -128.1 | 0.8 | -6.4 | 0.0 | 2.7 | 137.1 | 44.6 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -126.9 | 0.8 | -6.3 | 0.0 | 2.7 | 136.0 | 43.6 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -128.7 | 0.8 | -9.2 | 0.0 | 2.7 | 134.9 | 42.5 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -125.9 | 0.8 | -6.4 | 0.0 | 2.7 | 134.9 | 42.4 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -124.1 | 0.8 | -6.3 | 0.0 | 2.7 | 133.3 | 40.8 |

OHIO HILLS B= 10KM SITE 16
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 16

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-22-63

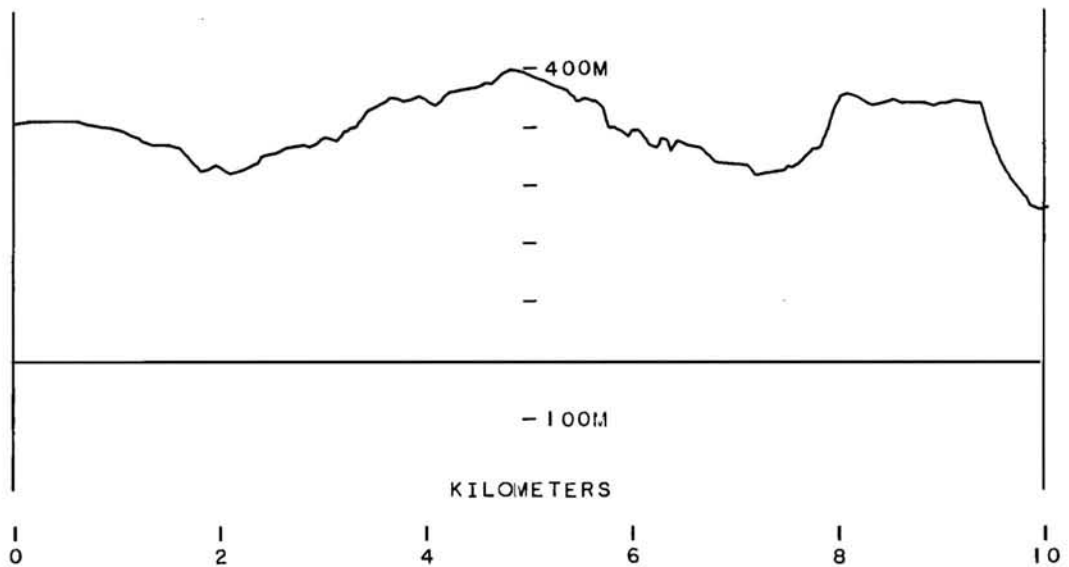
ROLLING HILLS, POWER LINES, LIGHT TREES TO RIGHT, PHONE LINES, OPEN
FIELDS TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS 10, 20,V,V, P,1) | 9.4 | -120.6 | | -5.4 | | 0.0 | 124.6 | 46.2 |
| (HLLS 10, 20,V,V,AV,1) | 9.4 | -127.5 | | -5.4 | | 0.0 | 131.5 | 53.0 |
| (HLLS 10, 20,V,V,AH,1) | 9.4 | -123.4 | | -5.4 | | 0.0 | 127.4 | 48.9 |
| (HLLS 10, 50,V,V, P,1) | 9.8 | -128.1 | | -7.0 | | 0.8 | 130.1 | 43.6 |
| (HLLS 10, 50,V,V, P,2) | 9.8 | -122.2 | | -5.5 | | 0.9 | 125.6 | 39.1 |
| (HLLS 10, 50,V,V,AV,1) | 9.8 | -126.4 | | -7.0 | | 0.8 | 128.4 | 41.9 |
| (HLLS 10, 50,V,V,AV,2) | 9.8 | -122.4 | | -5.5 | | 0.9 | 125.8 | 39.3 |
| (HLLS 10, 50,V,V,AH,1) | 9.8 | -128.7 | | -7.0 | | 0.8 | 130.7 | 44.3 |
| (HLLS 10, 50,V,V,AH,2) | 9.8 | -122.7 | | -5.5 | | 0.9 | 126.1 | 39.6 |
| (HLLS 10,100,V,V, P,3) | 16.0 | -129.4 | -0.1 | -6.0 | 0.0 | 2.7 | 136.6 | 44.2 |
| (HLLS 10,100,V,V, P,6) | 16.0 | -128.1 | -0.1 | -3.2 | 0.0 | 2.7 | 138.1 | 45.6 |
| (HLLS 10,100,V,V, P,9) | 16.0 | -127.5 | -0.1 | -5.9 | 0.0 | 2.7 | 134.8 | 42.3 |
| (HLLS 10,100,V,V,AV,3) | 16.0 | -128.1 | -0.1 | -6.0 | 0.0 | 2.7 | 135.3 | 42.8 |
| (HLLS 10,100,V,V,AV,6) | 16.0 | -125.0 | -0.1 | -3.2 | 0.0 | 2.7 | 135.0 | 42.5 |
| (HLLS 10,100,V,V,AV,9) | 16.0 | -123.7 | -0.1 | -5.9 | 0.0 | 2.7 | 131.1 | 38.6 |
| (HLLS 10,100,V,V,AH,3) | 16.0 | -127.5 | -0.1 | -6.0 | 0.0 | 2.7 | 134.7 | 42.2 |
| (HLLS 10,100,V,V,AH,6) | 16.0 | -125.9 | -0.1 | -3.2 | 0.0 | 2.7 | 135.9 | 43.4 |
| (HLLS 10,100,V,V,AH,9) | 16.0 | -126.9 | -0.1 | -5.9 | 0.0 | 2.7 | 134.2 | 41.8 |
| (HLLS 10,100,H,H, P,3) | 17.3 | -131.9 | 0.6 | -6.6 | 0.0 | 2.7 | 140.5 | 48.1 |
| (HLLS 10,100,H,H, P,6) | 17.3 | -131.0 | 0.6 | -6.2 | 0.0 | 2.7 | 140.0 | 47.6 |
| (HLLS 10,100,H,H, P,9) | 17.3 | -131.9 | 0.6 | -6.8 | 0.0 | 2.7 | 140.3 | 47.9 |
| (HLLS 10,100,H,H,AV,3) | 17.3 | -128.1 | 0.6 | -6.6 | 0.0 | 2.7 | 136.7 | 44.2 |
| (HLLS 10,100,H,H,AV,6) | 17.3 | -127.5 | 0.6 | -6.2 | 0.0 | 2.7 | 136.5 | 44.0 |
| (HLLS 10,100,H,H,AV,9) | 17.3 | -125.9 | 0.6 | -6.8 | 0.0 | 2.7 | 134.3 | 41.8 |
| (HLLS 10,100,H,H,AH,3) | 17.3 | -129.0 | 0.6 | -6.6 | 0.0 | 2.7 | 137.7 | 45.2 |
| (HLLS 10,100,H,H,AH,6) | 17.3 | -128.7 | 0.6 | -6.2 | 0.0 | 2.7 | 137.7 | 45.3 |
| (HLLS 10,100,H,H,AH,9) | 17.3 | -128.1 | 0.6 | -6.8 | 0.0 | 2.7 | 136.5 | 44.0 |

OHIO HILLS B= 10KM SITE 17
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 17

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-22-63

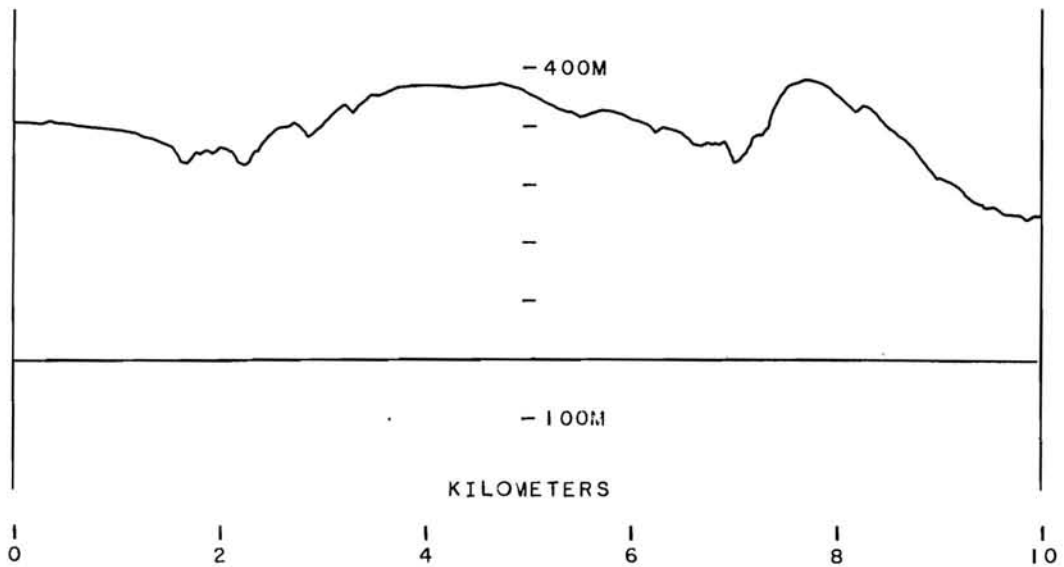
MOLLING HILLS, HEAVY TREES TOWARD TRANSMITTER, LAKE TO RIGHT, TREES
TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 8.5 | -134.1 | | -5.1 | 0.0 | | 137.5 | 59.0 |
| (HLLS' 10, 20,V,V,AV,1) | 8.5 | -127.8 | | -5.1 | 0.0 | | 131.2 | 52.7 |
| (HLLS' 10, 20,V,V,AH,1) | 8.5 | -129.0 | | -5.1 | 0.0 | | 132.4 | 54.0 |
| (HLLS' 10, 50,V,V, P,1) | 13.7 | -137.0 | | -7.5 | 0.8 | | 142.4 | 55.9 |
| (HLLS' 10, 50,V,V, P,2) | 13.7 | -128.4 | | -5.2 | 0.9 | | 136.0 | 49.5 |
| (HLLS' 10, 50,V,V,AV,1) | 13.7 | -129.4 | | -7.5 | 0.8 | | 134.8 | 48.3 |
| (HLLS' 10, 50,V,V,AV,2) | 13.7 | -129.0 | | -5.2 | 0.9 | | 136.6 | 50.2 |
| (HLLS' 10, 50,V,V,AH,1) | 13.7 | -129.0 | | -7.5 | 0.8 | | 134.4 | 48.0 |
| (HLLS' 10, 50,V,V,AH,2) | 13.7 | -128.7 | | -5.2 | 0.9 | | 136.3 | 49.9 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -130.2 | 0.1 | -4.3 | 0.0 | 2.7 | 139.3 | 46.8 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -129.0 | 0.1 | -2.3 | 0.0 | 2.7 | 140.2 | 47.7 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -131.9 | 0.1 | -6.4 | 0.0 | 2.7 | 138.9 | 46.5 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -129.0 | 0.1 | -4.3 | 0.0 | 2.7 | 138.2 | 45.7 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -127.5 | 0.1 | -2.3 | 0.0 | 2.7 | 138.6 | 46.1 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -126.1 | 0.1 | -6.4 | 0.0 | 2.7 | 133.1 | 40.7 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -131.4 | 0.1 | -4.3 | 0.0 | 2.7 | 140.5 | 48.1 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -127.5 | 0.1 | -2.3 | 0.0 | 2.7 | 138.6 | 46.1 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -126.9 | 0.1 | -6.4 | 0.0 | 2.7 | 133.9 | 41.5 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -129.0 | 0.5 | -0.7 | 0.0 | 2.7 | 143.5 | 51.0 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -128.1 | 0.5 | -6.2 | 0.0 | 2.7 | 137.0 | 44.5 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -128.1 | 0.5 | -7.0 | 0.0 | 2.7 | 136.2 | 43.7 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -126.9 | 0.5 | -0.7 | 0.0 | 2.7 | 141.3 | 48.9 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -128.1 | 0.5 | -6.2 | 0.0 | 2.7 | 137.0 | 44.5 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -127.5 | 0.5 | -7.0 | 0.0 | 2.7 | 135.6 | 43.1 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -126.1 | 0.5 | -0.7 | 0.0 | 2.7 | 140.5 | 48.1 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -125.4 | 0.5 | -6.2 | 0.0 | 2.7 | 134.3 | 41.9 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -127.8 | 0.5 | -7.0 | 0.0 | 2.7 | 135.9 | 43.4 |

OHIO HILLS B= 10KM SITE 18
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 18

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-14-64

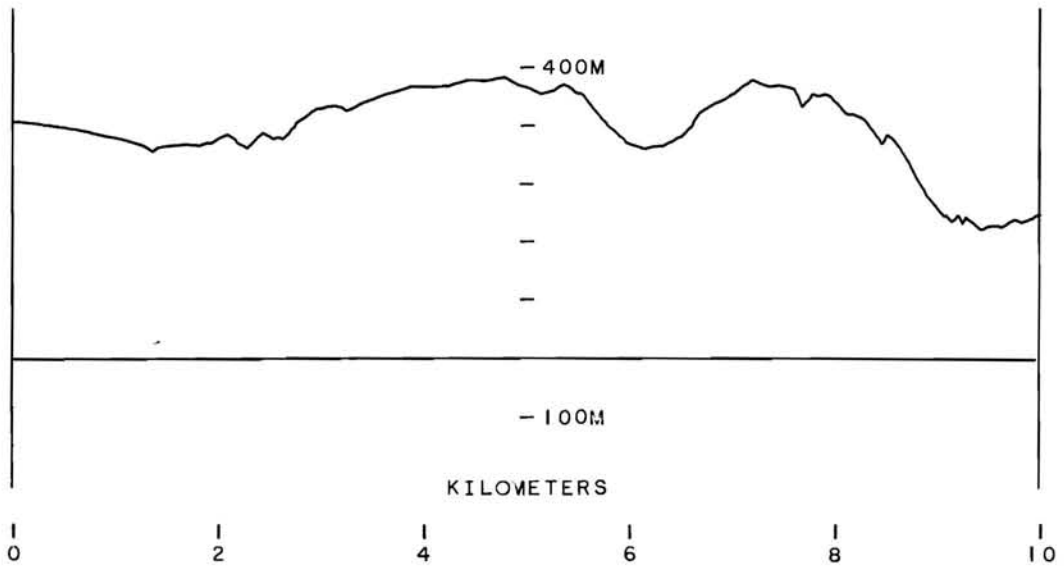
CLEAR TO FRONT FOR 300FT, 60FT TREES BEYOND. HOUSE TO RIGHT 200FT AWAY. 40FT POWER LINES ON ROAD, 25FT AWAY, 30FT PHONE LINES 50FT BEHIND, 60FT TREES BEHIND .1MI AWAY.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 17.4 | -114.7 | | -5.1 | | 0.0 | 127.0 | 48.6 |
| (HLLS, 10, 20,V,V,AV,1) | 17.4 | -115.4 | | -5.1 | | 0.0 | 127.7 | 49.3 |
| (HLLS, 10, 20,V,V,AH,1) | 17.4 | -115.4 | | -5.1 | | 0.0 | 127.7 | 49.3 |
| (HLLS, 10, 50,V,V, P,1) | 20.7 | -124.1 | | -7.5 | | 0.8 | 136.5 | 50.1 |
| (HLLS, 10, 50,V,V, P,2) | 20.7 | -120.1 | | -5.2 | | 0.9 | 134.7 | 48.3 |
| (HLLS, 10, 50,V,V,AV,1) | 20.7 | -124.1 | | -7.5 | | 0.8 | 136.5 | 50.1 |
| (HLLS, 10, 50,V,V,AV,2) | 20.7 | -117.9 | | -5.2 | | 0.9 | 132.5 | 46.0 |
| (HLLS, 10, 50,V,V,AH,1) | 20.7 | -124.1 | | -7.5 | | 0.8 | 136.5 | 50.1 |
| (HLLS, 10, 50,V,V,AH,2) | 20.7 | -117.9 | | -5.2 | | 0.9 | 132.5 | 46.0 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -126.9 | 7.6 | -4.2 | 1.4 | 2.7 | 146.2 | 53.8 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -126.9 | 7.6 | -2.3 | 1.4 | 2.7 | 148.1 | 55.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -126.1 | 7.6 | -6.5 | 1.4 | 2.7 | 143.1 | 50.7 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -123.7 | 7.6 | -4.2 | 1.4 | 2.7 | 143.0 | 50.6 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -121.7 | 7.6 | -2.3 | 1.4 | 2.7 | 142.9 | 50.4 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -121.7 | 7.6 | -6.5 | 1.4 | 2.7 | 138.7 | 46.3 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -123.7 | 7.6 | -4.2 | 1.4 | 2.7 | 143.0 | 50.6 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -121.7 | 7.6 | -2.3 | 1.4 | 2.7 | 142.9 | 50.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -121.7 | 7.6 | -6.5 | 1.4 | 2.7 | 138.7 | 46.3 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -127.2 | 9.4 | -0.5 | 1.3 | 2.7 | 152.1 | 59.6 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -130.2 | 9.4 | -6.2 | 1.3 | 2.7 | 149.4 | 56.9 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -128.1 | 9.4 | -6.9 | 1.3 | 2.7 | 146.6 | 54.2 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -119.5 | 9.4 | -0.5 | 1.3 | 2.7 | 144.4 | 51.9 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -121.4 | 9.4 | -6.2 | 1.3 | 2.7 | 140.6 | 48.1 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -123.0 | 9.4 | -6.9 | 1.3 | 2.7 | 141.5 | 49.1 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -119.5 | 9.4 | -0.5 | 1.3 | 2.7 | 144.4 | 51.9 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -121.4 | 9.4 | -6.2 | 1.3 | 2.7 | 140.6 | 48.1 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -123.0 | 9.4 | -6.9 | 1.3 | 2.7 | 141.5 | 49.1 |

OHIO HILLS B= 10KM SITE 19
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 19

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-14-64

20-60FT TREES 10FT IN FRONT, GOING TO HORIZON, 30FT POWER LINES, 20FT
PHONE LINES 20FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 20.4 | -116.2 | | -13.0 | | 0.0 | 123.6 | 45.2 |
| (HLLS, 10, 20,V,V,AV,1) | 20.4 | -111.0 | | -13.0 | | 0.0 | 118.4 | 40.0 |
| (HLLS, 10, 20,V,V,AH,1) | 20.4 | -115.4 | | -13.0 | | 0.0 | 122.8 | 44.3 |
| (HLLS, 10, 50,V,V, P,1) | 20.9 | -120.0 | | -7.8 | | 0.8 | 132.3 | 45.9 |
| (HLLS, 10, 50,V,V, P,2) | 20.9 | -117.0 | | -5.5 | | 0.9 | 131.5 | 45.1 |
| (HLLS, 10, 50,V,V,AV,1) | 20.9 | -123.7 | | -7.8 | | 0.8 | 136.0 | 49.6 |
| (HLLS, 10, 50,V,V,AV,2) | 20.9 | -123.7 | | -5.5 | | 0.9 | 138.2 | 51.8 |
| (HLLS, 10, 50,V,V,AH,1) | 20.9 | -117.9 | | -7.8 | | 0.8 | 130.2 | 43.8 |
| (HLLS, 10, 50,V,V,AH,2) | 20.9 | -118.9 | | -5.5 | | 0.9 | 133.4 | 46.9 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -130.2 | 7.6 | -13.4 | 1.4 | 2.7 | 140.3 | 47.9 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -126.9 | 7.6 | -5.8 | 1.4 | 2.7 | 144.6 | 52.1 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -125.8 | 7.6 | -6.9 | 1.4 | 2.7 | 142.4 | 50.0 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -122.8 | 7.6 | -13.4 | 1.4 | 2.7 | 132.9 | 40.5 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -122.0 | 7.6 | -5.8 | 1.4 | 2.7 | 139.7 | 47.3 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -117.4 | 7.6 | -6.9 | 1.4 | 2.7 | 134.0 | 41.6 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -126.9 | 7.6 | -13.4 | 1.4 | 2.7 | 137.0 | 44.6 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -129.4 | 7.6 | -5.8 | 1.4 | 2.7 | 147.1 | 54.6 |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -128.1 | 9.4 | -5.7 | 1.3 | 2.7 | 147.8 | 55.4 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -124.1 | 9.4 | -4.6 | 1.3 | 2.7 | 144.9 | 52.5 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -125.2 | 9.4 | -5.2 | 1.3 | 2.7 | 145.4 | 52.9 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -123.9 | 9.4 | -5.7 | 1.3 | 2.7 | 143.6 | 51.1 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -121.4 | 9.4 | -4.6 | 1.3 | 2.7 | 142.2 | 49.8 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -122.2 | 9.4 | -5.2 | 1.3 | 2.7 | 142.4 | 49.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -123.0 | 9.4 | -5.7 | 1.3 | 2.7 | 142.7 | 50.3 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -117.9 | 9.4 | -4.6 | 1.3 | 2.7 | 138.7 | 46.3 |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

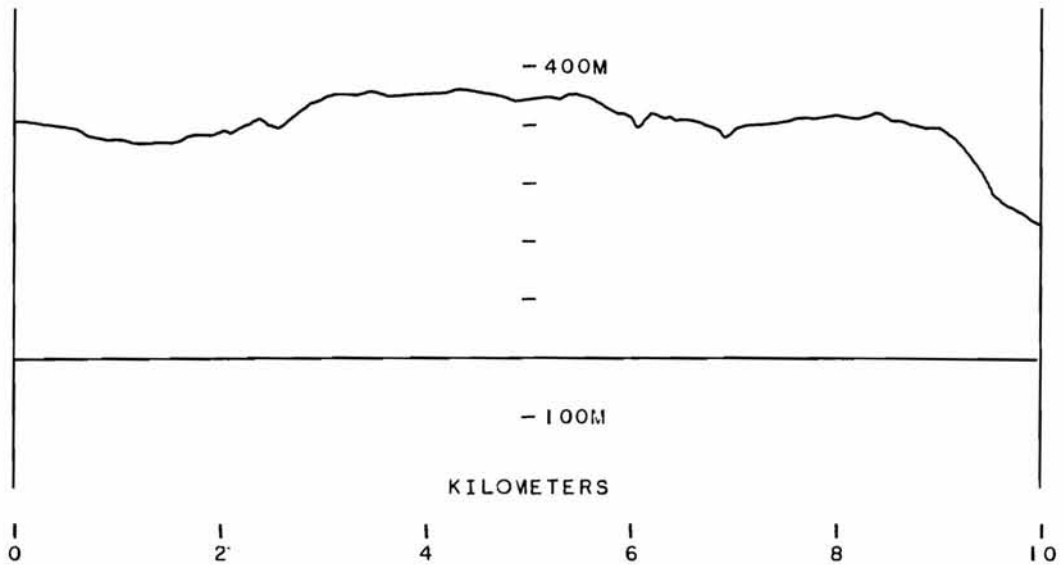
* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 20

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 20
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-14-64

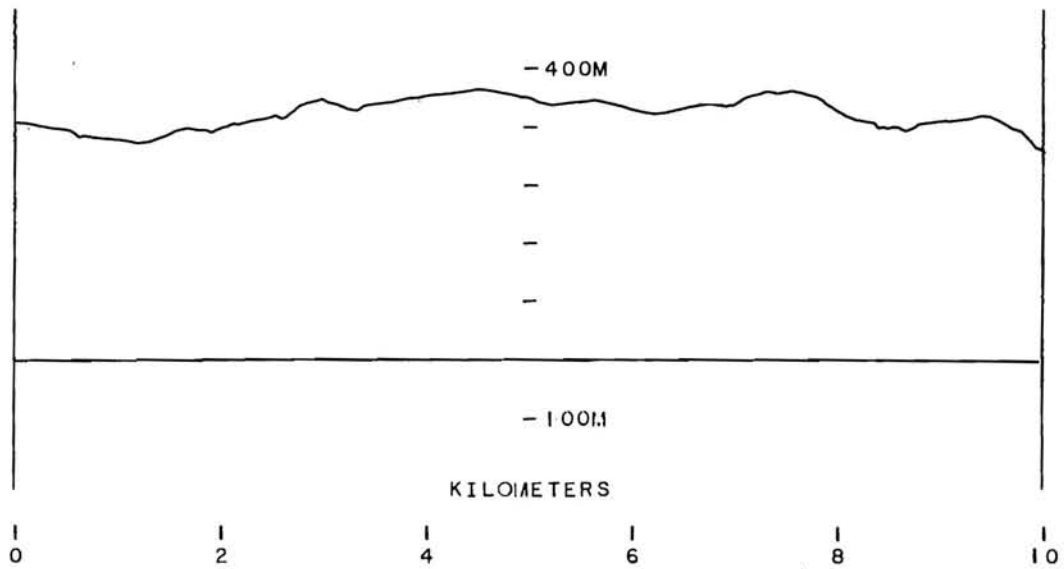
10-30FT SCATTERED TREES 150FT TO FRONT, LEFT AND RIGHT, ROLLING HILLS
TO FRONT, 25FT POWER LINES, 15FT PHONE LINES 25FT AWAY ON ROAD,
POWER LINES CROSS ROAD 100FT WEST, HOUSE 50FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 21.7 | -110.6 | | -5.4 | | 0.0 | 126.9 | 48.5 |
| (HLLS, 10, 20,V,V,AV,1) | 21.7 | -110.6 | | -5.4 | | 0.0 | 126.9 | 48.5 |
| (HLLS, 10, 20,V,V,AH,1) | 21.7 | -112.4 | | -5.4 | | 0.0 | 128.7 | 50.3 |
| (HLLS, 10, 50,V,V, P,1) | 20.5 | -109.8 | | -5.7 | | 0.8 | 123.8 | 37.4 |
| (HLLS, 10, 50,V,V, P,2) | 20.5 | -110.6 | | -7.0 | | 0.9 | 123.2 | 36.8 |
| (HLLS, 10, 50,V,V,AV,1) | 20.5 | -109.8 | | -5.7 | | 0.8 | 123.8 | 37.4 |
| (HLLS, 10, 50,V,V,AV,2) | 20.5 | -110.6 | | -7.0 | | 0.9 | 123.2 | 36.8 |
| (HLLS, 10, 50,V,V,AH,1) | 20.5 | -126.9 | | -5.7 | | 0.8 | 140.9 | 54.4 |
| (HLLS, 10, 50,V,V,AH,2) | 20.5 | -123.6 | | -7.0 | | 0.9 | 136.2 | 49.8 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -9.0 | 1.4 | 2.7 | 150.7 | 58.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -4.3 | 1.4 | 2.7 | 150.6 | 58.1 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -128.1 | 7.6 | -5.2 | 1.4 | 2.7 | 146.4 | 54.0 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -136.2 | 7.6 | -9.0 | 1.4 | 2.7 | 150.7 | 58.3 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -4.3 | 1.4 | 2.7 | 150.6 | 58.1 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -128.1 | 7.6 | -5.2 | 1.4 | 2.7 | 146.4 | 54.0 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -137.9 | 7.6 | -9.0 | 1.4 | 2.7 | 152.4 | 59.9 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -134.7 | 7.6 | -4.3 | 1.4 | 2.7 | 153.9 | 61.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -132.9 | 7.6 | -5.2 | 1.4 | 2.7 | 151.2 | 58.8 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -9.2 | 1.3 | 2.7 | 155.1 | 62.6 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -131.4 | 9.4 | -6.0 | 1.3 | 2.7 | 150.8 | 58.4 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -128.7 | 9.4 | -6.0 | 1.3 | 2.7 | 148.1 | 55.7 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -9.2 | 1.3 | 2.7 | 155.1 | 62.6 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -131.4 | 9.4 | -6.0 | 1.3 | 2.7 | 150.8 | 58.4 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -128.7 | 9.4 | -6.0 | 1.3 | 2.7 | 148.1 | 55.7 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -135.4 | 9.4 | -9.2 | 1.3 | 2.7 | 151.6 | 59.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -132.9 | 9.4 | -6.0 | 1.3 | 2.7 | 152.3 | 59.9 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -131.9 | 9.4 | -6.0 | 1.3 | 2.7 | 151.3 | 58.9 |

OHIO HILLS B = 10KM SITE 21
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 21
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-14-64

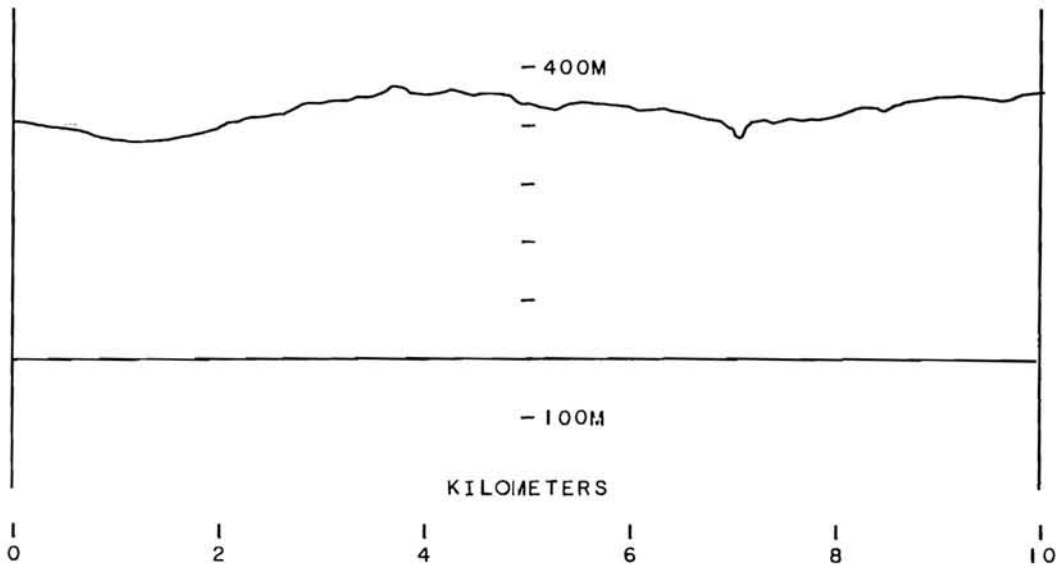
50FT TREES IN FRONT, 30FT TREES TO RIGHT, 40FT POWER LINES 30FT AWAY
ON ROAD, 25FT PHONE LINES 15FT BEHIND, 25FT POWER LINES CROSS ABOVE.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 22.7 | -120.1 | | -12.6 | | 0.0 | 130.2 | 51.8 |
| (HLLS, 10, 20,V,V,AV,1) | 22.7 | -113.2 | | -12.6 | | 0.0 | 123.3 | 44.8 |
| (HLLS, 10, 20,V,V,AH,1) | 22.7 | -112.9 | | -12.6 | | 0.0 | 123.0 | 44.5 |
| (HLLS, 10, 50,V,V, P,1) | 19.7 | -135.4 | | -7.5 | | 0.8 | 146.8 | 60.3 |
| (HLLS, 10, 50,V,V, P,2) | 19.7 | -128.1 | | -5.4 | | 0.9 | 141.5 | 55.1 |
| (HLLS, 10, 50,V,V,AV,1) | 19.7 | -125.9 | | -7.5 | | 0.8 | 137.3 | 50.8 |
| (HLLS, 10, 50,V,V,AV,2) | 19.7 | -124.9 | | -5.4 | | 0.9 | 138.3 | 51.8 |
| (HLLS, 10, 50,V,V,AH,1) | 19.7 | -127.5 | | -7.5 | | 0.8 | 138.9 | 52.4 |
| (HLLS, 10, 50,V,V,AH,2) | 19.7 | -123.9 | | -5.4 | | 0.9 | 137.3 | 50.8 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -136.6 | 7.3 | -8.6 | 1.4 | 2.7 | 151.2 | 58.8 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -133.5 | 7.3 | -3.1 | 1.4 | 2.7 | 153.6 | 61.2 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -129.8 | 7.3 | -6.3 | 1.4 | 2.7 | 146.7 | 54.3 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -128.7 | 7.3 | -8.6 | 1.4 | 2.7 | 143.3 | 50.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -123.0 | 7.3 | -3.1 | 1.4 | 2.7 | 143.1 | 50.6 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -123.0 | 7.3 | -6.3 | 1.4 | 2.7 | 139.9 | 47.4 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -131.9 | 7.3 | -8.6 | 1.4 | 2.7 | 146.5 | 54.1 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -127.6 | 7.3 | -3.1 | 1.4 | 2.7 | 147.7 | 55.3 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -125.6 | 7.3 | -6.3 | 1.4 | 2.7 | 142.5 | 50.1 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -134.0 | 9.4 | -4.5 | 1.3 | 2.7 | 154.9 | 62.5 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -135.4 | 9.4 | -5.3 | 1.3 | 2.7 | 155.5 | 63.1 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -137.9 | 9.4 | -5.3 | 1.3 | 2.7 | 158.0 | 65.6 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -130.6 | 9.4 | -4.5 | 1.3 | 2.7 | 151.5 | 59.1 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -124.5 | 9.4 | -5.3 | 1.3 | 2.7 | 144.6 | 52.2 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -131.0 | 9.4 | -5.3 | 1.3 | 2.7 | 151.1 | 58.7 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -129.0 | 9.4 | -4.5 | 1.3 | 2.7 | 149.9 | 57.5 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -123.0 | 9.4 | -5.3 | 1.3 | 2.7 | 143.1 | 50.7 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -123.4 | 9.4 | -5.3 | 1.3 | 2.7 | 143.5 | 51.1 |

OHIO HILLS B= 10KM SITE 22
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 10KM SITE 22

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-23-63

LEVEL TERRAIN, PHONE LINES TOWARD TRANSMITTER, POWER LINES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 10, 20,V,V, P,1) | 24.4 | -114.7 | | -5.2 | | 0.0 | 133.9 | 55.5 |
| (HLLS' 10, 20,V,V,AV,1) | 24.4 | -109.8 | | -5.2 | | 0.0 | 129.0 | 50.5 |
| (HLLS' 10, 20,V,V,AH,1) | 24.4 | -108.4 | | -5.2 | | 0.0 | 127.6 | 49.1 |
| (HLLS' 10, 50,V,V, P,1) | 18.2 | -123.9 | | -7.5 | | 0.8 | 133.8 | 47.4 |
| (HLLS' 10, 50,V,V, P,2) | 18.2 | -116.2 | | -5.2 | | 0.9 | 128.3 | 41.8 |
| (HLLS' 10, 50,V,V,AV,1) | 18.2 | -121.2 | | -7.5 | | 0.8 | 131.1 | 44.6 |
| (HLLS' 10, 50,V,V,AV,2) | 18.2 | -118.7 | | -5.2 | | 0.9 | 130.8 | 44.4 |
| (HLLS' 10, 50,V,V,AH,1) | 18.2 | -121.2 | | -7.5 | | 0.8 | 131.1 | 44.6 |
| (HLLS' 10, 50,V,V,AH,2) | 18.2 | -115.4 | | -5.2 | | 0.9 | 127.5 | 41.1 |
| (HLLS' 10,100,V,V, P,3) | 16.0 | -122.7 | -0.5 | -4.2 | 0.0 | 2.7 | 131.3 | 38.9 |
| (HLLS' 10,100,V,V, P,6) | 16.0 | -116.2 | -0.5 | -2.2 | 0.0 | 2.7 | 126.8 | 34.3 |
| (HLLS' 10,100,V,V, P,9) | 16.0 | -113.2 | -0.5 | -6.5 | 0.0 | 2.7 | 119.5 | 27.1 |
| (HLLS' 10,100,V,V,AV,3) | 16.0 | -117.9 | -0.5 | -4.2 | 0.0 | 2.7 | 126.5 | 34.1 |
| (HLLS' 10,100,V,V,AV,6) | 16.0 | -112.7 | -0.5 | -2.2 | 0.0 | 2.7 | 123.3 | 30.8 |
| (HLLS' 10,100,V,V,AV,9) | 16.0 | -111.9 | -0.5 | -6.5 | 0.0 | 2.7 | 118.2 | 25.8 |
| (HLLS' 10,100,V,V,AH,3) | 16.0 | -126.1 | -0.5 | -4.2 | 0.0 | 2.7 | 134.7 | 42.3 |
| (HLLS' 10,100,V,V,AH,6) | 16.0 | -119.5 | -0.5 | -2.2 | 0.0 | 2.7 | 130.1 | 37.7 |
| (HLLS' 10,100,V,V,AH,9) | 16.0 | -114.7 | -0.5 | -6.5 | 0.0 | 2.7 | 121.0 | 28.6 |
| (HLLS' 10,100,H,H, P,3) | 17.3 | -125.4 | 1.8 | -0.2 | 0.0 | 2.7 | 141.6 | 49.2 |
| (HLLS' 10,100,H,H, P,6) | 17.3 | -121.4 | 1.8 | -6.3 | 0.0 | 2.7 | 131.6 | 39.1 |
| (HLLS' 10,100,H,H, P,9) | 17.3 | -116.2 | 1.8 | -6.8 | 0.0 | 2.7 | 125.8 | 33.3 |
| (HLLS' 10,100,H,H,AV,3) | 17.3 | -128.1 | 1.8 | -0.2 | 0.0 | 2.7 | 144.3 | 51.8 |
| (HLLS' 10,100,H,H,AV,6) | 17.3 | -122.2 | 1.8 | -6.3 | 0.0 | 2.7 | 132.3 | 39.9 |
| (HLLS' 10,100,H,H,AV,9) | 17.3 | -117.4 | 1.8 | -6.8 | 0.0 | 2.7 | 127.1 | 34.6 |
| (HLLS' 10,100,H,H,AH,3) | 17.3 | -123.7 | 1.8 | -0.2 | 0.0 | 2.7 | 140.0 | 47.5 |
| (HLLS' 10,100,H,H,AH,6) | 17.3 | -121.4 | 1.8 | -6.3 | 0.0 | 2.7 | 131.6 | 39.1 |
| (HLLS' 10,100,H,H,AH,9) | 17.3 | -116.2 | 1.8 | -6.8 | 0.0 | 2.7 | 125.8 | 33.3 |

OHIO HILLS B= 20KM SITE 1

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-23-63

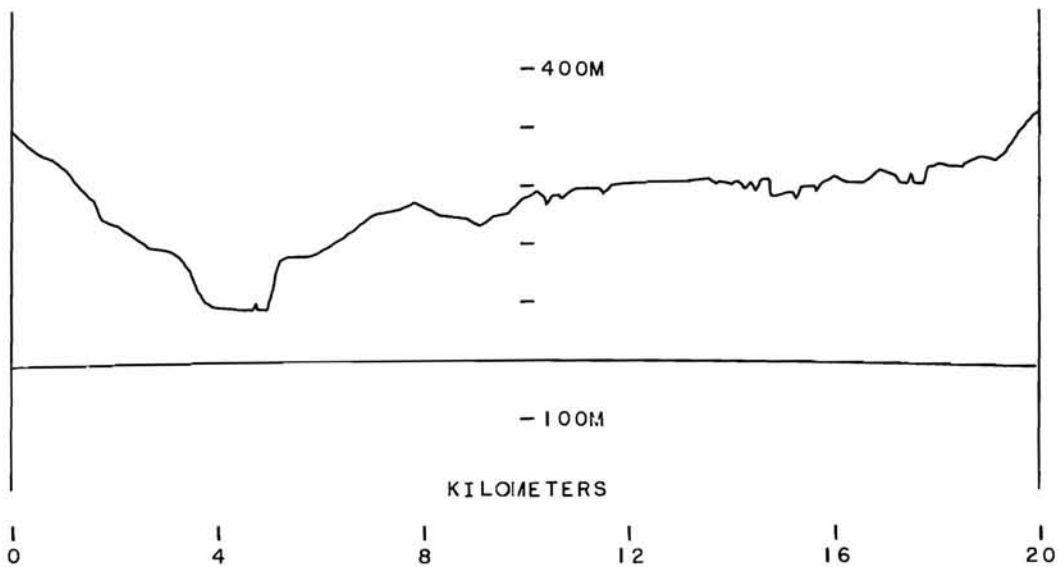
HILLS, CLEAR TO LEFT, LOW SHRUBS, POWER LINES TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 15.8 | -115.5 | | -12.7 | | 0.0 | 118.6 | 34.1 |
| (HLLS, 20, 20,V,V,AV,1) | 15.8 | -113.5 | | -12.7 | | 0.0 | 116.6 | 32.1 |
| (HLLS, 20, 20,V,V,AH,1) | 15.8 | -117.0 | | -12.7 | | 0.0 | 120.1 | 35.6 |
| (HLLS, 20, 50,V,V, P,1) | 14.3 | -133.0 | | -12.7 | | 0.8 | 133.8 | 41.4 |
| (HLLS, 20, 50,V,V, P,2) | 14.3 | -115.3 | | -5.4 | | 0.9 | 123.3 | 30.8 |
| (HLLS, 20, 50,V,V,AV,1) | 14.3 | -125.2 | | -12.7 | | 0.8 | 126.0 | 33.5 |
| (HLLS, 20, 50,V,V,AV,2) | 14.3 | -111.2 | | -5.4 | | 0.9 | 119.2 | 26.7 |
| (HLLS, 20, 50,V,V,AH,1) | 14.3 | -130.6 | | -12.7 | | 0.8 | 131.4 | 38.9 |
| (HLLS, 20, 50,V,V,AH,2) | 14.3 | -115.4 | | -5.4 | | 0.9 | 123.4 | 30.9 |
| (HLLS, 20,100,V,V, P,3) | 16.0 | -114.2 | -0.7 | -21.8 | 0.0 | 2.7 | 105.0 | 6.6 |
| (HLLS, 20,100,V,V, P,6) | 16.0 | -110.2 | -0.7 | -8.7 | 0.0 | 2.7 | 114.1 | 15.6 |
| (HLLS, 20,100,V,V, P,9) | 16.0 | -106.6 | -0.7 | -5.7 | 0.0 | 2.7 | 113.6 | 15.1 |
| (HLLS, 20,100,V,V,AV,3) | 16.0 | -110.2 | -0.7 | -21.8 | 0.0 | 2.7 | 101.0 | 2.5 |
| (HLLS, 20,100,V,V,AV,6) | 16.0 | -106.9 | -0.7 | -8.7 | 0.0 | 2.7 | 110.8 | 12.3 |
| (HLLS, 20,100,V,V,AV,9) | 16.0 | -103.7 | -0.7 | -5.7 | 0.0 | 2.7 | 110.7 | 12.2 |
| (HLLS, 20,100,V,V,AH,3) | 16.0 | -114.7 | -0.7 | -21.8 | 0.0 | 2.7 | 105.5 | 7.1 |
| (HLLS, 20,100,V,V,AH,6) | 16.0 | -109.8 | -0.7 | -8.7 | 0.0 | 2.7 | 113.7 | 15.2 |
| (HLLS, 20,100,V,V,AH,9) | 16.0 | -107.2 | -0.7 | -5.7 | 0.0 | 2.7 | 114.1 | 15.6 |
| (HLLS, 20,100,H,H, P,3) | 17.3 | -126.9 | 1.8 | -3.2 | 0.0 | 2.7 | 140.1 | 41.7 |
| (HLLS, 20,100,H,H, P,6) | 17.3 | -119.2 | 1.8 | -4.7 | 0.0 | 2.7 | 130.9 | 32.4 |
| (HLLS, 20,100,H,H, P,9) | 17.3 | -117.2 | 1.8 | -5.7 | 0.0 | 2.7 | 127.9 | 29.4 |
| (HLLS, 20,100,H,H,AV,3) | 17.3 | -117.4 | 1.8 | -3.2 | 0.0 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,H,H,AV,6) | 17.3 | -118.4 | 1.8 | -4.7 | 0.0 | 2.7 | 130.1 | 31.7 |
| (HLLS, 20,100,H,H,AV,9) | 17.3 | -115.1 | 1.8 | -5.7 | 0.0 | 2.7 | 125.8 | 27.3 |
| (HLLS, 20,100,H,H,AH,3) | 17.3 | -121.3 | 1.8 | -3.2 | 0.0 | 2.7 | 134.5 | 36.0 |
| (HLLS, 20,100,H,H,AH,6) | 17.3 | -121.6 | 1.8 | -4.7 | 0.0 | 2.7 | 133.3 | 34.8 |
| (HLLS, 20,100,H,H,AH,9) | 17.3 | -114.4 | 1.8 | -5.7 | 0.0 | 2.7 | 125.1 | 26.6 |

OHIO HILLS B= 20KM SITE 2
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS 8 20KM SITE 2
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-26-63

ROLLING HILLS, POWER LINES, TREES AND HOUSES TO LEFT.

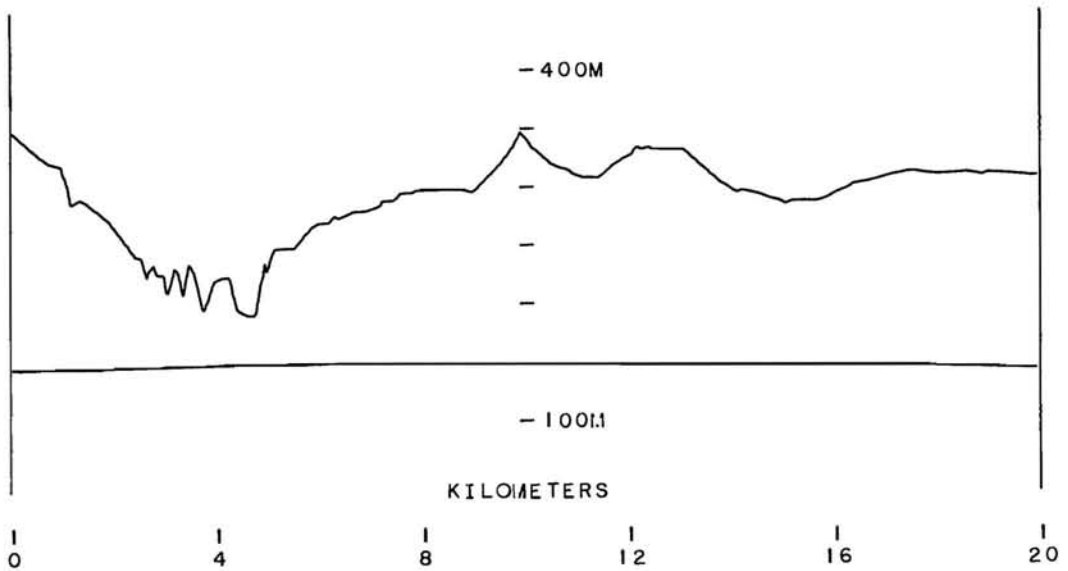
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 20, 20,V,V, P,1) | 15.1 | -118.4 | | -5.2 | | 0.0 | 128.3 | 43.8 |
| (HLLS' 20, 20,V,V,AV,1) | 15.1 | -117.0 | | -5.2 | | 0.0 | 126.9 | 42.4 |
| (HLLS' 20, 20,V,V,AH,1) | 15.1 | -117.4 | | -5.2 | | 0.0 | 127.3 | 42.9 |
| (HLLS' 20, 50,V,V, P,1) | 15.6 | -119.5 | | -7.1 | | 0.8 | 127.2 | 34.7 |
| (HLLS' 20, 50,V,V, P,2) | 15.6 | -116.6 | | -5.2 | | 0.9 | 126.1 | 33.6 |
| (HLLS' 20, 50,V,V,AV,1) | 15.6 | -115.1 | | -7.1 | | 0.8 | 122.8 | 30.3 |
| (HLLS' 20, 50,V,V,AV,2) | 15.6 | -111.9 | | -5.2 | | 0.9 | 121.4 | 28.9 |
| (HLLS' 20, 50,V,V,AH,1) | 15.6 | -112.9 | | -7.1 | | 0.8 | 120.6 | 28.1 |
| (HLLS' 20, 50,V,V,AH,2) | 15.6 | -111.9 | | -5.2 | | 0.9 | 121.4 | 28.9 |
| (HLLS' 20,100,V,V, P,3) | 16.0 | -114.7 | -0.5 | -4.8 | 0.0 | 2.7 | 122.7 | 24.3 |
| (HLLS' 20,100,V,V, P,6) | 16.0 | -110.6 | -0.5 | -2.5 | 0.0 | 2.7 | 120.9 | 22.4 |
| (HLLS' 20,100,V,V, P,9) | 16.0 | -106.9 | -0.5 | -6.2 | 0.0 | 2.7 | 113.5 | 15.0 |
| (HLLS' 20,100,V,V,AV,3) | 16.0 | -114.4 | -0.5 | -4.8 | 0.0 | 2.7 | 122.4 | 23.9 |
| (HLLS' 20,100,V,V,AV,6) | 16.0 | -110.2 | -0.5 | -2.5 | 0.0 | 2.7 | 120.5 | 22.0 |
| (HLLS' 20,100,V,V,AV,9) | 16.0 | -108.4 | -0.5 | -6.2 | 0.0 | 2.7 | 115.0 | 16.5 |
| (HLLS' 20,100,V,V,AH,3) | 16.0 | -115.4 | -0.5 | -4.8 | 0.0 | 2.7 | 123.4 | 25.0 |
| (HLLS' 20,100,V,V,AH,6) | 16.0 | -111.0 | -0.5 | -2.5 | 0.0 | 2.7 | 121.3 | 22.8 |
| (HLLS' 20,100,V,V,AH,9) | 16.0 | -108.4 | -0.5 | -6.2 | 0.0 | 2.7 | 115.0 | 16.5 |
| (HLLS' 20,100,H,H, P,3) | 17.3 | -115.6 | 1.8 | -3.2 | 0.0 | 2.7 | 128.8 | 30.3 |
| (HLLS' 20,100,H,H, P,6) | 17.3 | -111.0 | 1.8 | -6.2 | 0.0 | 2.7 | 121.2 | 22.7 |
| (HLLS' 20,100,H,H, P,9) | 17.3 | -108.7 | 1.8 | -7.0 | 0.0 | 2.7 | 118.1 | 19.7 |
| (HLLS' 20,100,H,H,AV,3) | 17.3 | -114.7 | 1.8 | -3.2 | 0.0 | 2.7 | 127.9 | 29.5 |
| (HLLS' 20,100,H,H,AV,6) | 17.3 | -111.2 | 1.8 | -6.2 | 0.0 | 2.7 | 121.4 | 23.0 |
| (HLLS' 20,100,H,H,AV,9) | 17.3 | -106.4 | 1.8 | -7.0 | 0.0 | 2.7 | 115.8 | 17.3 |
| (HLLS' 20,100,H,H,AH,3) | 17.3 | -111.9 | 1.8 | -3.2 | 0.0 | 2.7 | 125.1 | 26.6 |
| (HLLS' 20,100,H,H,AH,6) | 17.3 | -111.2 | 1.8 | -6.2 | 0.0 | 2.7 | 121.4 | 23.0 |
| (HLLS' 20,100,H,H,AH,9) | 17.3 | -107.2 | 1.8 | -7.0 | 0.0 | 2.7 | 116.6 | 18.1 |

OHIO HILLS $\theta = 20\text{KM}$ SITE 3

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 20KM SITE 3

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-26-63

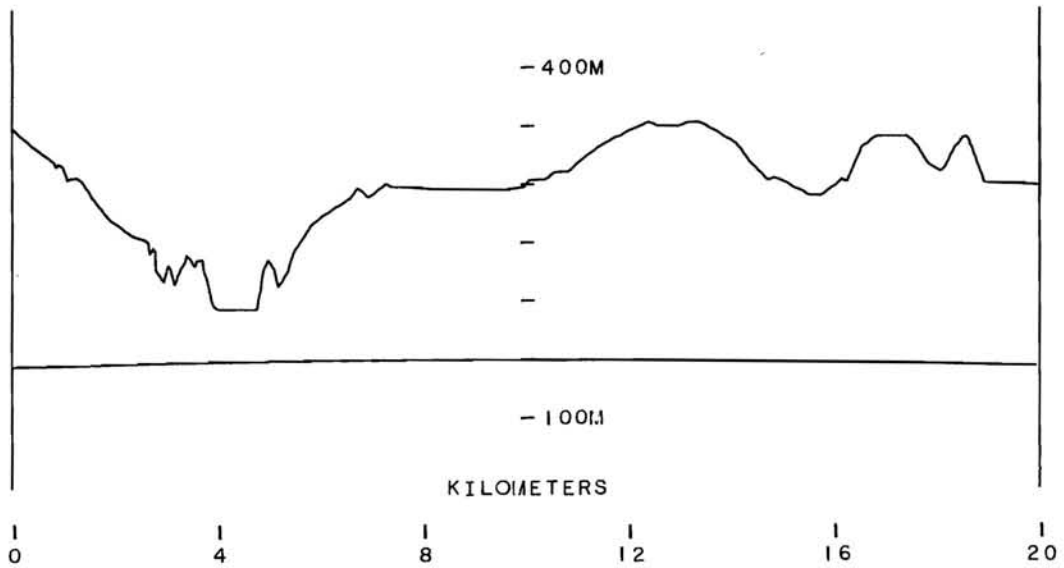
LEVEL, LOW TREES TOWARD TRANSMITTER, POWER LINES AND HOUSE TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 20, 20.V.V, P,1) | 13.3 | -121.7 | | -5.4 | | 0.0 | 129.6 | 45.2 |
| (HLLS' 20, 20.V.V,AV,1) | 13.3 | -121.7 | | -5.4 | | 0.0 | 129.6 | 45.2 |
| (HLLS' 20, 20.V.V,AH,1) | 13.3 | -121.7 | | -5.4 | | 0.0 | 129.6 | 45.2 |
| (HLLS' 20, 50.V.V, P,1) | 16.6 | -127.5 | | -8.3 | | 0.8 | 135.0 | 42.5 |
| (HLLS' 20, 50.V.V, P,2) | 16.6 | -123.0 | | -5.2 | | 0.9 | 133.5 | 41.0 |
| (HLLS' 20, 50.V.V,AV,1) | 16.6 | -127.5 | | -8.3 | | 0.8 | 135.0 | 42.5 |
| (HLLS' 20, 50.V.V,AV,2) | 16.6 | -123.0 | | -5.2 | | 0.9 | 133.5 | 41.0 |
| (HLLS' 20, 50.V.V,AH,1) | 16.6 | -127.5 | | -8.3 | | 0.8 | 135.0 | 42.5 |
| (HLLS' 20, 50.V.V,AH,2) | 16.6 | -123.0 | | -5.2 | | 0.9 | 133.5 | 41.0 |
| (HLLS' 20,100.V.V, P,3) | 16.0 | -128.1 | -0.5 | -4.2 | 0.0 | 2.7 | 136.7 | 38.2 |
| (HLLS' 20,100.V.V, P,6) | 16.0 | -120.1 | -0.5 | -2.3 | 0.0 | 2.7 | 130.6 | 32.1 |
| (HLLS' 20,100.V.V, P,9) | 16.0 | -118.4 | -0.5 | -6.5 | 0.0 | 2.7 | 124.7 | 26.3 |
| (HLLS' 20,100.V.V,AV,3) | 16.0 | -128.1 | -0.5 | -4.2 | 0.0 | 2.7 | 136.7 | 38.2 |
| (HLLS' 20,100.V.V,AV,6) | 16.0 | -120.1 | -0.5 | -2.3 | 0.0 | 2.7 | 130.6 | 32.1 |
| (HLLS' 20,100.V.V,AV,9) | 16.0 | -118.4 | -0.5 | -6.5 | 0.0 | 2.7 | 124.7 | 26.3 |
| (HLLS' 20,100.V.V,AH,3) | 16.0 | -128.1 | -0.5 | -4.2 | 0.0 | 2.7 | 136.7 | 38.2 |
| (HLLS' 20,100.V.V,AH,6) | 16.0 | -120.1 | -0.5 | -2.3 | 0.0 | 2.7 | 130.6 | 32.1 |
| (HLLS' 20,100.V.V,AH,9) | 16.0 | -118.4 | -0.5 | -6.5 | 0.0 | 2.7 | 124.7 | 26.3 |
| (HLLS' 20,100.H.H, P,3) | 17.3 | -136.2 | 1.8 | -0.1 | 0.0 | 2.7 | 152.5 | 54.0 |
| (HLLS' 20,100.H.H, P,6) | 17.3 | -126.1 | 1.8 | -6.3 | 0.0 | 2.7 | 136.2 | 37.8 |
| (HLLS' 20,100.H.H, P,9) | 17.3 | -123.9 | 1.8 | -6.8 | 0.0 | 2.7 | 133.6 | 35.1 |
| (HLLS' 20,100.H.H,AV,3) | 17.3 | -136.2 | 1.8 | -0.1 | 0.0 | 2.7 | 152.5 | 54.0 |
| (HLLS' 20,100.H.H,AV,6) | 17.3 | -126.1 | 1.8 | -6.3 | 0.0 | 2.7 | 136.2 | 37.8 |
| (HLLS' 20,100.H.H,AV,9) | 17.3 | -123.9 | 1.8 | -6.8 | 0.0 | 2.7 | 133.6 | 35.1 |
| (HLLS' 20,100.H.H,AH,3) | 17.3 | -136.2 | 1.8 | -0.1 | 0.0 | 2.7 | 152.5 | 54.0 |
| (HLLS' 20,100.H.H,AH,6) | 17.3 | -126.1 | 1.8 | -6.3 | 0.0 | 2.7 | 136.2 | 37.8 |
| (HLLS' 20,100.H.H,AH,9) | 17.3 | -123.9 | 1.8 | -6.8 | 0.0 | 2.7 | 133.6 | 35.1 |

OHIO HILLS B= 20KM SITE 4
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 20KM SITE 4
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-26-63

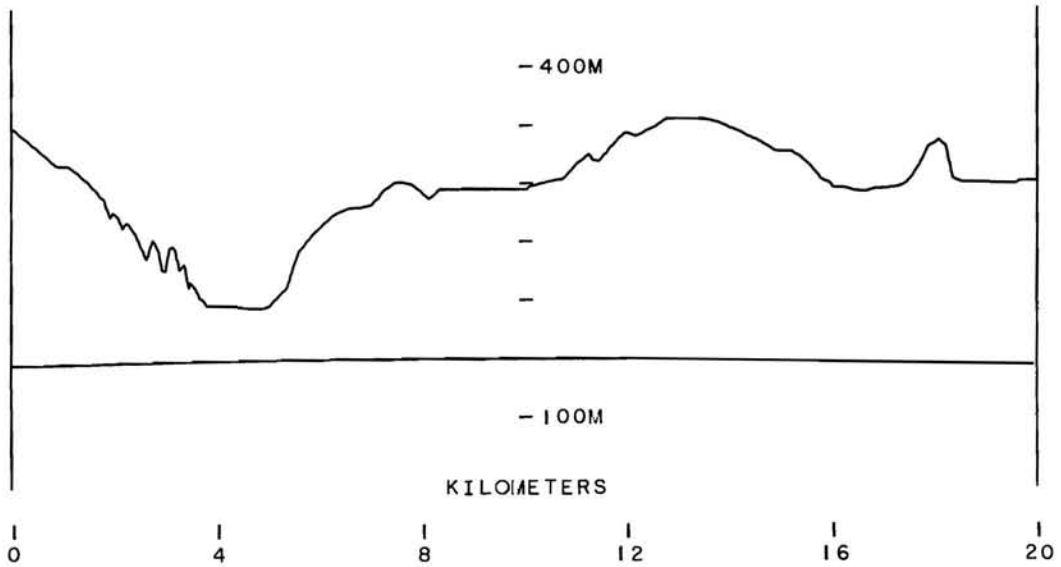
HEAVY TREES TOWARD TRANSMITTER, LAKE TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 20, 20,V,V, P,1) | 11.0 | -120.7 | | -5.4 | | 0.0 | 126.3 | 41.9 |
| (HLLS' 20, 20,V,V,AV,1) | 11.0 | -120.7 | | -5.4 | | 0.0 | 126.3 | 41.9 |
| (HLLS' 20, 20,V,V,AH,1) | 11.0 | -120.7 | | -5.4 | | 0.0 | 126.3 | 41.9 |
| (HLLS' 20, 50,V,V, P,1) | 15.9 | -123.9 | | -6.7 | | 0.8 | 132.3 | 39.9 |
| (HLLS' 20, 50,V,V, P,2) | 15.9 | -132.4 | | -5.7 | | 0.9 | 141.7 | 49.2 |
| (HLLS' 20, 50,V,V,AV,1) | 15.9 | -123.9 | | -6.7 | | 0.8 | 132.3 | 39.9 |
| (HLLS' 20, 50,V,V,AV,2) | 15.9 | -132.4 | | -5.7 | | 0.9 | 141.7 | 49.2 |
| (HLLS' 20, 50,V,V,AH,1) | 15.9 | -123.9 | | -6.7 | | 0.8 | 132.3 | 39.9 |
| (HLLS' 20, 50,V,V,AH,2) | 15.9 | -132.4 | | -5.7 | | 0.9 | 141.7 | 49.2 |
| (HLLS' 20,100,V,V, P,3) | 16.0 | -132.4 | -0.6 | -7.4 | 0.0 | 2.7 | 137.7 | 39.2 |
| (HLLS' 20,100,V,V, P,6) | 16.0 | -131.4 | -0.6 | -3.8 | 0.0 | 2.7 | 140.3 | 41.9 |
| (HLLS' 20,100,V,V, P,9) | 16.0 | -129.0 | -0.6 | -5.7 | 0.0 | 2.7 | 136.1 | 37.6 |
| (HLLS' 20,100,V,V,AV,3) | 16.0 | -132.4 | -0.6 | -7.4 | 0.0 | 2.7 | 137.7 | 39.2 |
| (HLLS' 20,100,V,V,AV,6) | 16.0 | -131.4 | -0.6 | -3.8 | 0.0 | 2.7 | 140.3 | 41.9 |
| (HLLS' 20,100,V,V,AV,9) | 16.0 | -129.0 | -0.6 | -5.7 | 0.0 | 2.7 | 136.1 | 37.6 |
| (HLLS' 20,100,V,V,AH,3) | 16.0 | -132.4 | -0.6 | -7.4 | 0.0 | 2.7 | 137.7 | 39.2 |
| (HLLS' 20,100,V,V,AH,6) | 16.0 | -131.4 | -0.6 | -3.8 | 0.0 | 2.7 | 140.3 | 41.9 |
| (HLLS' 20,100,V,V,AH,9) | 16.0 | -129.0 | -0.6 | -5.7 | 0.0 | 2.7 | 136.1 | 37.6 |
| (HLLS' 20,100,H,H, P,3) | 17.3 | -129.0 | 1.8 | -7.4 | 0.0 | 2.7 | 138.1 | 39.6 |
| (HLLS' 20,100,H,H, P,6) | 17.3 | -123.9 | 1.8 | -6.3 | 0.0 | 2.7 | 134.1 | 35.6 |
| (HLLS' 20,100,H,H, P,9) | 17.3 | -123.2 | 1.8 | -6.5 | 0.0 | 2.7 | 133.1 | 34.6 |
| (HLLS' 20,100,H,H,AV,3) | 17.3 | -129.0 | 1.8 | -7.4 | 0.0 | 2.7 | 138.1 | 39.6 |
| (HLLS' 20,100,H,H,AV,6) | 17.3 | -123.9 | 1.8 | -6.3 | 0.0 | 2.7 | 134.1 | 35.6 |
| (HLLS' 20,100,H,H,AV,9) | 17.3 | -123.2 | 1.8 | -6.5 | 0.0 | 2.7 | 133.1 | 34.6 |
| (HLLS' 20,100,H,H,AH,3) | 17.3 | -129.0 | 1.8 | -7.4 | 0.0 | 2.7 | 138.1 | 39.6 |
| (HLLS' 20,100,H,H,AH,6) | 17.3 | -123.9 | 1.8 | -6.3 | 0.0 | 2.7 | 134.1 | 35.6 |
| (HLLS' 20,100,H,H,AH,9) | 17.3 | -123.2 | 1.8 | -6.5 | 0.0 | 2.7 | 133.1 | 34.6 |

OHIO HILLS B= 20KM SITE 5
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 20KM SITE 5
 CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-26-63

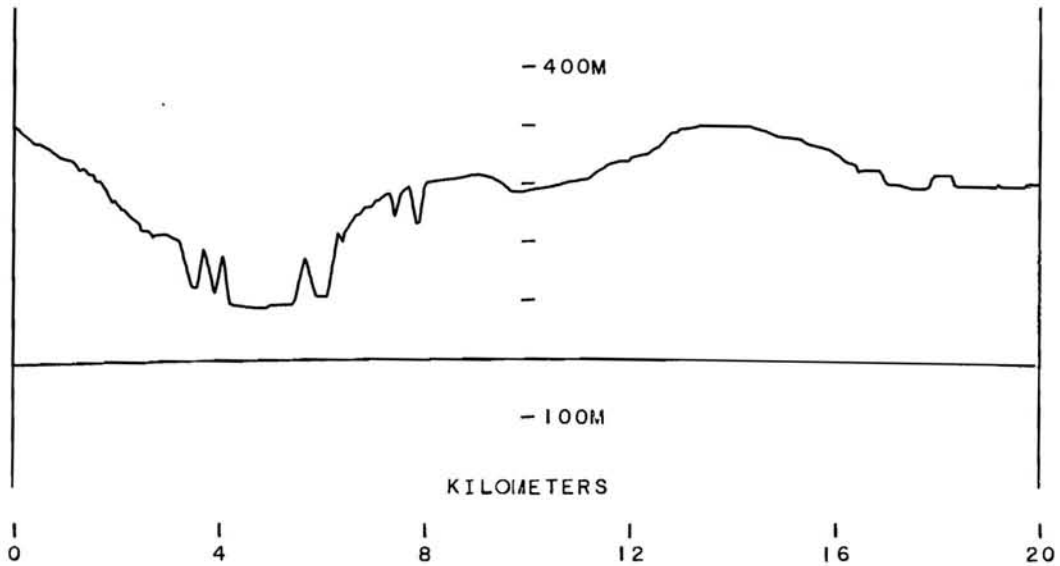
LEVEL, TREES TOWARD TRANSMITTER, POWER LINES AND LOW TREES TO LEFT,
 HEAVY TREES AND HOUSE TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 10.6 | -126.4 | | -5.4 | | 0.0 | 131.6 | 47.1 |
| (HLLS, 20, 20,V,V,AV,1) | 10.6 | -123.4 | | -5.4 | | 0.0 | 128.6 | 44.1 |
| (HLLS, 20, 20,V,V,AH,1) | 10.6 | -125.9 | | -5.4 | | 0.0 | 131.1 | 46.6 |
| (HLLS, 20, 50,V,V, P,1) | 15.1 | -125.9 | | -6.5 | | 0.8 | 133.7 | 41.2 |
| (HLLS, 20, 50,V,V, P,2) | 15.1 | -119.5 | | -6.0 | | 0.9 | 127.7 | 35.2 |
| (HLLS, 20, 50,V,V,AV,1) | 15.1 | -124.5 | | -6.5 | | 0.8 | 132.3 | 39.9 |
| (HLLS, 20, 50,V,V,AV,2) | 15.1 | -121.4 | | -6.0 | | 0.9 | 129.6 | 37.2 |
| (HLLS, 20, 50,V,V,AH,1) | 15.1 | -123.0 | | -6.5 | | 0.8 | 132.8 | 40.3 |
| (HLLS, 20, 50,V,V,AH,2) | 15.1 | -118.4 | | -6.0 | | 0.9 | 126.6 | 34.1 |
| (HLLS, 20,100,V,V, P,3) | 16.0 | -131.4 | -0.7 | -8.1 | 0.0 | 2.7 | 135.9 | 37.5 |
| (HLLS, 20,100,V,V, P,6) | 16.0 | -131.4 | -0.7 | -4.1 | 0.0 | 2.7 | 139.9 | 41.5 |
| (HLLS, 20,100,V,V, P,9) | 16.0 | -125.9 | -0.7 | -5.5 | 0.0 | 2.7 | 133.0 | 34.5 |
| (HLLS, 20,100,V,V,AV,3) | 16.0 | -126.9 | -0.7 | -8.1 | 0.0 | 2.7 | 131.4 | 32.9 |
| (HLLS, 20,100,V,V,AV,6) | 16.0 | -125.2 | -0.7 | -4.1 | 0.0 | 2.7 | 133.7 | 35.2 |
| (HLLS, 20,100,V,V,AV,9) | 16.0 | -122.7 | -0.7 | -5.5 | 0.0 | 2.7 | 129.8 | 31.3 |
| (HLLS, 20,100,V,V,AH,3) | 16.0 | -125.4 | -0.7 | -8.1 | 0.0 | 2.7 | 129.9 | 31.5 |
| (HLLS, 20,100,V,V,AH,6) | 16.0 | -124.1 | -0.7 | -4.1 | 0.0 | 2.7 | 132.7 | 34.2 |
| (HLLS, 20,100,V,V,AH,9) | 16.0 | -121.2 | -0.7 | -5.5 | 0.0 | 2.7 | 128.3 | 29.8 |
| (HLLS, 20,100,H,H, P,3) | 17.3 | -126.9 | 1.8 | -9.0 | 0.0 | 2.7 | 134.3 | 35.9 |
| (HLLS, 20,100,H,H, P,6) | 17.3 | -120.7 | 1.8 | -6.3 | 0.0 | 2.7 | 130.9 | 32.4 |
| (HLLS, 20,100,H,H, P,9) | 17.3 | -120.3 | 1.8 | -6.3 | 0.0 | 2.7 | 130.5 | 32.0 |
| (HLLS, 20,100,H,H,AV,3) | 17.3 | -128.1 | 1.8 | -9.0 | 0.0 | 2.7 | 135.5 | 37.0 |
| (HLLS, 20,100,H,H,AV,6) | 17.3 | -122.5 | 1.8 | -6.3 | 0.0 | 2.7 | 132.6 | 34.2 |
| (HLLS, 20,100,H,H,AV,9) | 17.3 | -119.9 | 1.8 | -6.3 | 0.0 | 2.7 | 130.0 | 31.5 |
| (HLLS, 20,100,H,H,AH,3) | 17.3 | -124.1 | 1.8 | -9.0 | 0.0 | 2.7 | 131.6 | 33.1 |
| (HLLS, 20,100,H,H,AH,6) | 17.3 | -118.9 | 1.8 | -6.3 | 0.0 | 2.7 | 129.1 | 30.6 |
| (HLLS, 20,100,H,H,AH,9) | 17.3 | -120.2 | 1.8 | -6.3 | 0.0 | 2.7 | 130.3 | 31.9 |

OHIO HILLS B= 20KM SITE 6
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 6

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-24-64

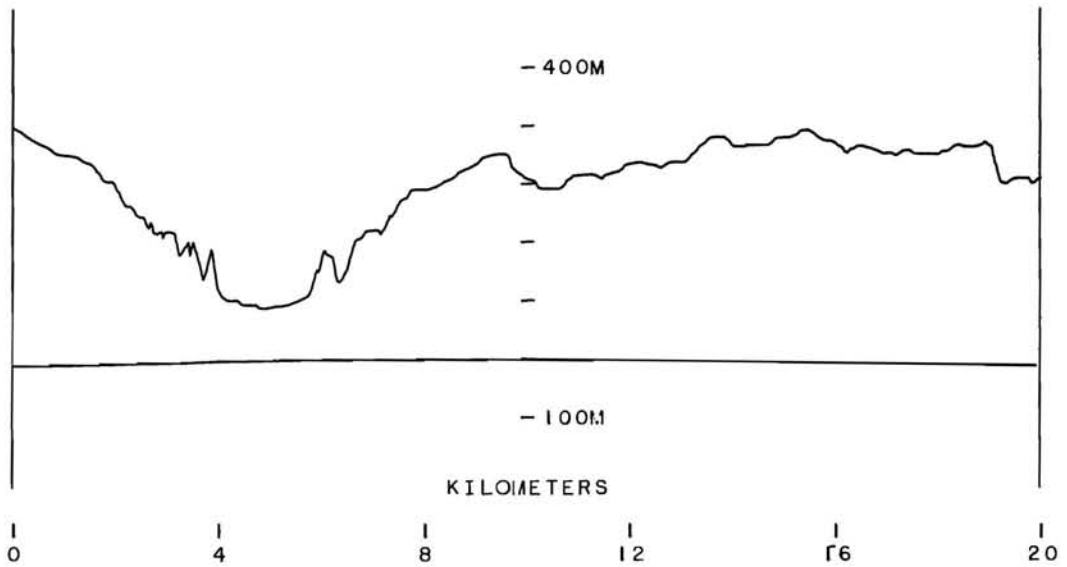
30FT TREES FRONT AND LEFT, GOING TO HORIZON. ROAD TO RIGHT, 15FT
TREES BEHIND, FOLLOWED BY .1MI CLEAR FIELD, THEN HOUSE.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.0 | -117.9 | | -13.1 | | 0.0 | 123.8 | 39.3 |
| (HLLS, 20, 20,V,V,AV,1) | 19.0 | -117.9 | | -13.1 | | 0.0 | 123.8 | 39.3 |
| (HLLS, 20, 20,V,V,AH,1) | 19.0 | -118.4 | | -13.1 | | 0.0 | 124.3 | 39.8 |
| (HLLS, 20, 50,V,V, P,1) | 20.5 | -117.4 | | -7.4 | | 0.8 | 129.7 | 37.2 |
| (HLLS, 20, 50,V,V, P,2) | 20.5 | -114.0 | | -5.5 | | 0.9 | 128.1 | 35.6 |
| (HLLS, 20, 50,V,V,AV,1) | 20.5 | -117.0 | | -7.4 | | 0.8 | 129.3 | 36.8 |
| (HLLS, 20, 50,V,V,AV,2) | 20.5 | -111.4 | | -5.5 | | 0.9 | 125.5 | 33.0 |
| (HLLS, 20, 50,V,V,AH,1) | 20.5 | -121.6 | | -7.4 | | 0.8 | 133.9 | 41.4 |
| (HLLS, 20, 50,V,V,AH,2) | 20.5 | -117.9 | | -5.5 | | 0.9 | 132.0 | 39.5 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.4 | 7.6 | -10.8 | 1.4 | 2.7 | 145.1 | 46.6 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -129.8 | 7.6 | -4.8 | 1.4 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -7.2 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -115.4 | 7.6 | -10.8 | 1.4 | 2.7 | 128.1 | 29.6 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -111.9 | 7.6 | -4.8 | 1.4 | 2.7 | 130.6 | 32.1 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -109.0 | 7.6 | -7.2 | 1.4 | 2.7 | 125.3 | 26.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -123.0 | 7.6 | -10.8 | 1.4 | 2.7 | 135.7 | 37.2 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -111.9 | 7.6 | -4.8 | 1.4 | 2.7 | 130.6 | 32.1 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -107.5 | 7.6 | -7.2 | 1.4 | 2.7 | 123.8 | 25.3 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -114.7 | 9.4 | -5.5 | 1.3 | 2.7 | 134.6 | 36.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -107.5 | 9.4 | -4.3 | 1.3 | 2.7 | 128.6 | 30.1 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -105.9 | 9.4 | -5.3 | 1.3 | 2.7 | 126.0 | 27.5 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -118.9 | 9.4 | -5.5 | 1.3 | 2.7 | 138.8 | 40.3 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -108.4 | 9.4 | -4.3 | 1.3 | 2.7 | 129.5 | 31.0 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -104.5 | 9.4 | -5.3 | 1.3 | 2.7 | 124.6 | 26.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -112.9 | 9.4 | -5.5 | 1.3 | 2.7 | 132.8 | 34.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -105.9 | 9.4 | -4.3 | 1.3 | 2.7 | 127.0 | 28.5 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -103.4 | 9.4 | -5.3 | 1.3 | 2.7 | 123.5 | 25.0 |

OHIO HILLS B= 20KM SITE 7
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 20KM SITE 7

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-27-63

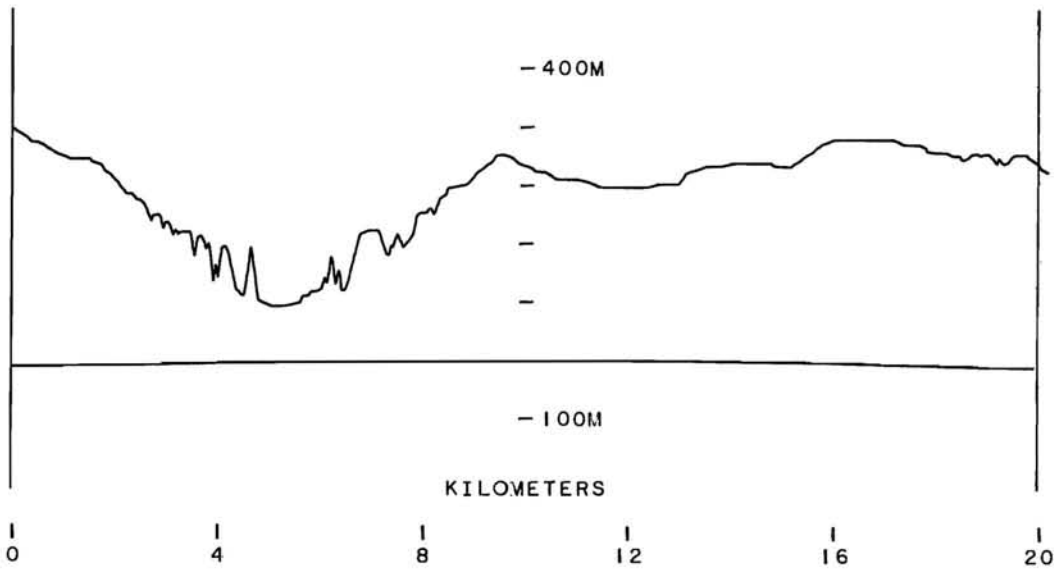
ROLLING HILLS, CLEAR TO TRANSMITTER, LIGHT TREES TO RIGHT, OPEN FIELD
TO LEFT, POWER LINES IN FRONT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 10.6 | -124.5 | | -12.5 | 0.0 | | 122.6 | 38.2 |
| (HLLS, 20, 20,V,V,AV,1) | 10.6 | -126.9 | | -12.5 | 0.0 | | 125.0 | 40.5 |
| (HLLS, 20, 20,V,V,AH,1) | 10.6 | -125.9 | | -12.5 | 0.0 | | 124.0 | 39.5 |
| (HLLS, 20, 50,V,V, P,1) | 13.1 | -130.6 | | -10.1 | 0.8 | | 132.8 | 40.3 |
| (HLLS, 20, 50,V,V, P,2) | 13.1 | -125.0 | | -5.5 | 0.9 | | 131.7 | 39.2 |
| (HLLS, 20, 50,V,V,AV,1) | 13.1 | -131.2 | | -10.1 | 0.8 | | 133.4 | 40.9 |
| (HLLS, 20, 50,V,V,AV,2) | 13.1 | -132.7 | | -5.5 | 0.9 | | 139.4 | 46.9 |
| (HLLS, 20, 50,V,V,AH,1) | 13.1 | -131.9 | | -10.1 | 0.8 | | 134.1 | 41.6 |
| (HLLS, 20, 50,V,V,AH,2) | 13.1 | -129.4 | | -5.5 | 0.9 | | 136.1 | 43.6 |
| (HLLS, 20,100,V,V, P,3) | 16.0 | -129.4 | -0.7 | -23.2 | 0.0 | 2.7 | 118.8 | 20.3 |
| (HLLS, 20,100,V,V, P,6) | 16.0 | -124.5 | -0.7 | -7.8 | 0.0 | 2.7 | 129.4 | 30.9 |
| (HLLS, 20,100,V,V, P,9) | 16.0 | -120.2 | -0.7 | -5.9 | 0.0 | 2.7 | 126.9 | 28.5 |
| (HLLS, 20,100,V,V,AV,3) | 16.0 | -128.1 | -0.7 | -23.2 | 0.0 | 2.7 | 117.5 | 19.0 |
| (HLLS, 20,100,V,V,AV,6) | 16.0 | -124.3 | -0.7 | -7.8 | 0.0 | 2.7 | 129.2 | 30.7 |
| (HLLS, 20,100,V,V,AV,9) | 16.0 | -119.9 | -0.7 | -5.9 | 0.0 | 2.7 | 126.6 | 28.1 |
| (HLLS, 20,100,V,V,AH,3) | 16.0 | -129.0 | -0.7 | -23.2 | 0.0 | 2.7 | 118.5 | 20.0 |
| (HLLS, 20,100,V,V,AH,6) | 16.0 | -125.9 | -0.7 | -7.8 | 0.0 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,V,V,AH,9) | 16.0 | -123.0 | -0.7 | -5.9 | 0.0 | 2.7 | 129.7 | 31.3 |
| (HLLS, 20,100,H,H, P,3) | 17.3 | -135.4 | 1.6 | -5.1 | 0.0 | 2.7 | 146.5 | 48.1 |
| (HLLS, 20,100,H,H, P,6) | 17.3 | -126.1 | 1.6 | -4.4 | 0.0 | 2.7 | 137.9 | 39.5 |
| (HLLS, 20,100,H,H, P,9) | 17.3 | -124.5 | 1.6 | -5.3 | 0.0 | 2.7 | 135.5 | 37.0 |
| (HLLS, 20,100,H,H,AV,3) | 17.3 | -127.5 | 1.6 | -5.1 | 0.0 | 2.7 | 138.6 | 40.1 |
| (HLLS, 20,100,H,H,AV,6) | 17.3 | -119.0 | 1.6 | -4.4 | 0.0 | 2.7 | 130.9 | 32.4 |
| (HLLS, 20,100,H,H,AV,9) | 17.3 | -117.2 | 1.6 | -5.3 | 0.0 | 2.7 | 128.1 | 29.6 |
| (HLLS, 20,100,H,H,AH,3) | 17.3 | -126.9 | 1.6 | -5.1 | 0.0 | 2.7 | 138.0 | 39.6 |
| (HLLS, 20,100,H,H,AH,6) | 17.3 | -120.1 | 1.6 | -4.4 | 0.0 | 2.7 | 131.9 | 33.5 |
| (HLLS, 20,100,H,H,AH,9) | 17.3 | -119.5 | 1.6 | -5.3 | 0.0 | 2.7 | 130.4 | 32.0 |

OHIO HILLS B= 20KM SITE 8
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 8

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-24-64

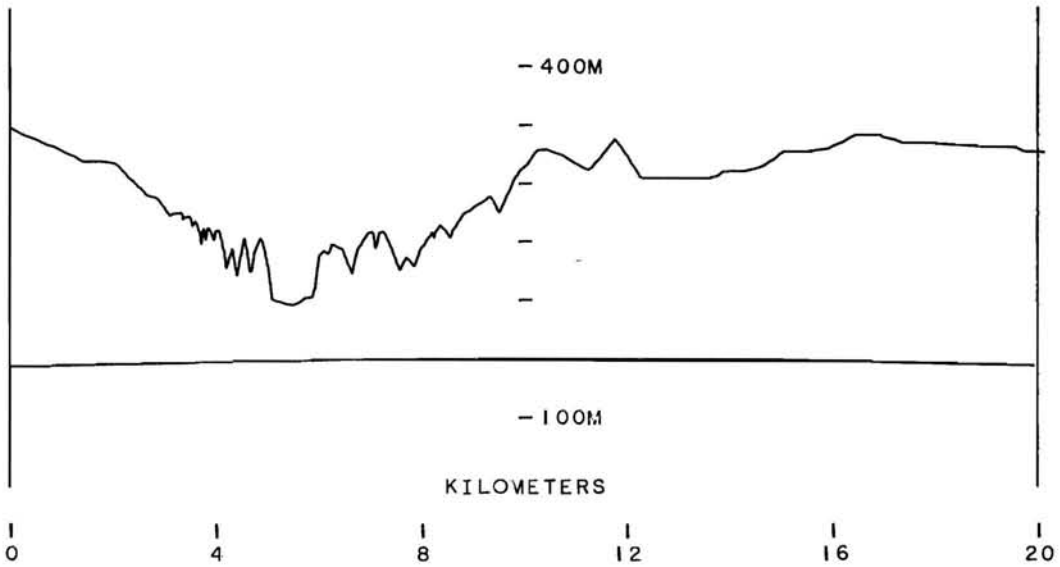
CLEAR IN FRONT TO 75FT TREES AT 300FT, GOING TO HORIZON, 60FT POWER LINES CROSS ROAD 250FT WEST AND 40FT EAST, 30FT PHONE LINES 30FT AWAY ON ROAD. VALLEY BEHIND WITH SCATTERED 60FT TREES TO HORIZON.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 20.1 | -118.4 | | -12.7 | | 0.0 | 125.8 | 41.3 |
| (HLLS, 20, 20,V,V,AV,1) | 20.1 | -117.0 | | -12.7 | | 0.0 | 124.4 | 39.9 |
| (HLLS, 20, 20,V,V,AH,1) | 20.1 | -119.5 | | -12.7 | | 0.0 | 126.9 | 42.4 |
| (HLLS, 20, 50,V,V, P,1) | 17.4 | -120.7 | | -7.4 | | 0.8 | 129.9 | 37.4 |
| (HLLS, 20, 50,V,V, P,2) | 17.4 | -116.6 | | -5.4 | | 0.9 | 127.7 | 35.2 |
| (HLLS, 20, 50,V,V,AV,1) | 17.4 | -118.4 | | -7.4 | | 0.8 | 127.6 | 35.1 |
| (HLLS, 20, 50,V,V,AV,2) | 17.4 | -113.2 | | -5.4 | | 0.9 | 124.3 | 31.8 |
| (HLLS, 20, 50,V,V,AH,1) | 17.4 | -118.9 | | -7.4 | | 0.8 | 128.1 | 35.6 |
| (HLLS, 20, 50,V,V,AH,2) | 17.4 | -117.4 | | -5.4 | | 0.9 | 128.5 | 36.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -123.2 | 7.6 | -8.7 | 1.4 | 2.7 | 138.0 | 39.5 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -117.9 | 7.6 | -3.2 | 1.4 | 2.7 | 138.2 | 39.7 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -116.6 | 7.6 | -6.4 | 1.4 | 2.7 | 133.7 | 35.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -118.4 | 7.6 | -8.7 | 1.4 | 2.7 | 133.2 | 34.7 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -112.1 | 7.6 | -3.2 | 1.4 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -110.2 | 7.6 | -6.4 | 1.4 | 2.7 | 127.3 | 28.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -129.4 | 7.6 | -8.7 | 1.4 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -119.0 | 7.6 | -3.2 | 1.4 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -115.4 | 7.6 | -6.4 | 1.4 | 2.7 | 132.5 | 34.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -125.9 | 9.4 | -4.6 | 1.3 | 2.7 | 146.7 | 48.2 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -119.0 | 9.4 | -5.3 | 1.3 | 2.7 | 139.1 | 40.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -112.4 | 9.4 | -5.3 | 1.3 | 2.7 | 132.5 | 34.0 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -134.7 | 9.4 | -4.6 | 1.3 | 2.7 | 155.5 | 57.0 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -118.9 | 9.4 | -5.3 | 1.3 | 2.7 | 139.0 | 40.5 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -117.0 | 9.4 | -5.3 | 1.3 | 2.7 | 137.1 | 38.6 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -116.2 | 9.4 | -4.6 | 1.3 | 2.7 | 137.0 | 38.5 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.0 | 9.4 | -5.3 | 1.3 | 2.7 | 134.1 | 35.6 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -115.4 | 9.4 | -5.3 | 1.3 | 2.7 | 135.5 | 37.0 |

OHIO HILLS B= 20KM SITE 9
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS B= 20KM SITE 9
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-27-63

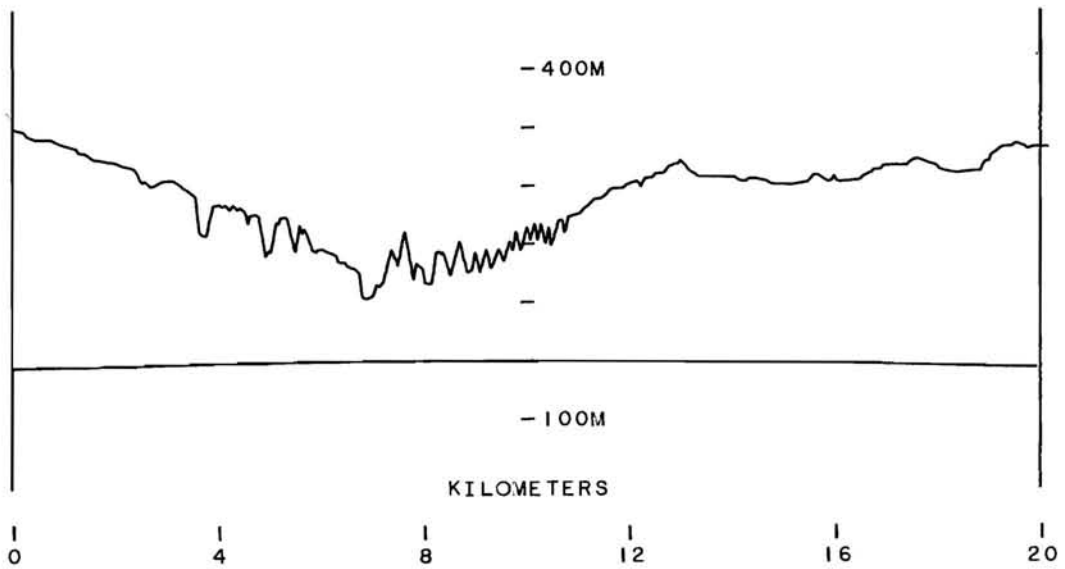
POWER LINES AND HEAVY TREES TO LEFT, LOW TREES AND HIGH TENSION WIRES
1/4MI TO RIGHT, TREES TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS' 20, 20,V,V, P,1) | 13.2 | -117.0 | | -5.1 | | 0.0 | 125.1 | 40.6 |
| (HLLS' 20, 20,V,V,AV,1) | 13.2 | -114.7 | | -5.1 | | 0.0 | 122.8 | 38.4 |
| (HLLS' 20, 20,V,V,AH,1) | 13.2 | -121.2 | | -5.1 | | 0.0 | 129.3 | 44.8 |
| | | | | | | | | |
| (HLLS' 20, 50,V,V, P,1) | 9.9 | -130.6 | | -4.2 | | 0.8 | 135.5 | 43.0 |
| (HLLS' 20, 50,V,V, P,2) | 9.9 | -129.8 | | -8.7 | | 0.9 | 130.1 | 37.6 |
| (HLLS' 20, 50,V,V,AV,1) | 9.9 | -127.5 | | -4.2 | | 0.8 | 132.4 | 39.9 |
| (HLLS' 20, 50,V,V,AV,2) | 9.9 | -124.1 | | -8.7 | | 0.9 | 124.4 | 32.0 |
| (HLLS' 20, 50,V,V,AH,1) | 9.9 | -128.7 | | -4.2 | | 0.8 | 133.6 | 41.1 |
| (HLLS' 20, 50,V,V,AH,2) | 9.9 | -124.1 | | -8.7 | | 0.9 | 124.4 | 32.0 |
| | | | | | | | | |
| (HLLS' 20,100,V,V, P,3) | 16.0 | -134.7 | -0.4 | -7.6 | 0.0 | 2.7 | 140.0 | 41.6 |
| (HLLS' 20,100,V,V, P,6) | 16.0 | -126.1 | -0.4 | -3.6 | 0.0 | 2.7 | 135.4 | 37.0 |
| (HLLS' 20,100,V,V, P,9) | 16.0 | -122.2 | -0.4 | -3.6 | 0.0 | 2.7 | 131.5 | 33.0 |
| (HLLS' 20,100,V,V,AV,3) | 16.0 | -129.4 | -0.4 | -7.6 | 0.0 | 2.7 | 134.7 | 36.2 |
| (HLLS' 20,100,V,V,AV,6) | 16.0 | -129.4 | -0.4 | -3.6 | 0.0 | 2.7 | 138.7 | 40.2 |
| (HLLS' 20,100,V,V,AV,9) | 16.0 | -124.5 | -0.4 | -3.6 | 0.0 | 2.7 | 133.9 | 35.4 |
| (HLLS' 20,100,V,V,AH,3) | 16.0 | -129.8 | -0.4 | -7.6 | 0.0 | 2.7 | 135.1 | 36.6 |
| (HLLS' 20,100,V,V,AH,6) | 16.0 | -129.4 | -0.4 | -3.6 | 0.0 | 2.7 | 138.7 | 40.2 |
| (HLLS' 20,100,V,V,AH,9) | 16.0 | -123.6 | -0.4 | -3.6 | 0.0 | 2.7 | 132.9 | 34.4 |
| | | | | | | | | |
| (HLLS' 20,100,H,H, P,3) | 17.3 | -129.4 | 1.2 | -6.8 | 0.0 | 2.7 | 138.4 | 39.9 |
| (HLLS' 20,100,H,H, P,6) | 17.3 | -124.5 | 1.2 | -3.5 | 0.0 | 2.7 | 136.9 | 38.4 |
| (HLLS' 20,100,H,H, P,9) | 17.3 | -124.1 | 1.2 | -4.0 | 0.0 | 2.7 | 136.0 | 37.5 |
| (HLLS' 20,100,H,H,AV,3) | 17.3 | -129.8 | 1.2 | -6.8 | 0.0 | 2.7 | 138.8 | 40.3 |
| (HLLS' 20,100,H,H,AV,6) | 17.3 | -125.4 | 1.2 | -3.5 | 0.0 | 2.7 | 137.7 | 39.3 |
| (HLLS' 20,100,H,H,AV,9) | 17.3 | -123.2 | 1.2 | -4.0 | 0.0 | 2.7 | 135.0 | 36.5 |
| (HLLS' 20,100,H,H,AH,3) | 17.3 | -126.6 | 1.2 | -6.8 | 0.0 | 2.7 | 135.7 | 37.2 |
| (HLLS' 20,100,H,H,AH,6) | 17.3 | -122.2 | 1.2 | -3.5 | 0.0 | 2.7 | 134.5 | 36.0 |
| (HLLS' 20,100,H,H,AH,9) | 17.3 | -123.7 | 1.2 | -4.0 | 0.0 | 2.7 | 135.6 | 37.1 |

OHIO HILLS B= 20KM SITE 10
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 107MHZ |
| 2.62 | 2.74 | 2.92 |



OHIO HILLS 8= 20KM SITE 10
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

08-28-63

HOLLING HILLS, POWER LINES, AND TRANSFORMER ON POLE, OPEN FIELD TO-
WARD TRANSMITTER, HEAVY TREES, HOUSE TO RIGHT, POWER LINES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS 20, 20,V,V, P,1) | 15.2 | -123.7 | | -11.2 | | 0.0 | 127.7 | 43.3 |
| (HLLS 20, 20,V,V,AV,1) | 15.2 | -120.3 | | -11.2 | | 0.0 | 124.3 | 39.9 |
| (HLLS 20, 20,V,V,AH,1) | 15.2 | -119.5 | | -11.2 | | 0.0 | 123.5 | 39.0 |
| | | | | | | | | |
| (HLLS 20, 50,V,V, P,1) | 9.1 | -131.9 | | -8.9 | | 0.8 | 131.3 | 38.8 |
| (HLLS 20, 50,V,V, P,2) | 9.1 | -130.6 | | -5.2 | | 0.9 | 133.6 | 41.1 |
| (HLLS 20, 50,V,V,AV,1) | 9.1 | -128.1 | | -8.9 | | 0.8 | 127.5 | 35.0 |
| (HLLS 20, 50,V,V,AV,2) | 9.1 | -122.7 | | -5.2 | | 0.9 | 125.7 | 33.2 |
| (HLLS 20, 50,V,V,AH,1) | 9.1 | -127.5 | | -8.9 | | 0.8 | 126.9 | 34.4 |
| (HLLS 20, 50,V,V,AH,2) | 9.1 | -118.4 | | -5.2 | | 0.9 | 121.4 | 28.9 |
| | | | | | | | | |
| (HLLS 20,100,V,V, P,3) | 16.0 | -127.2 | -0.6 | -7.2 | 0.0 | 2.7 | 132.7 | 34.2 |
| (HLLS 20,100,V,V, P,6) | 16.0 | -120.1 | -0.6 | -1.9 | 0.0 | 2.7 | 130.9 | 32.4 |
| (HLLS 20,100,V,V, P,9) | 16.0 | -117.9 | -0.6 | -4.9 | 0.0 | 2.7 | 125.7 | 27.3 |
| (HLLS 20,100,V,V,AV,3) | 16.0 | -120.1 | -0.6 | -7.2 | 0.0 | 2.7 | 125.6 | 27.1 |
| (HLLS 20,100,V,V,AV,6) | 16.0 | -115.4 | -0.6 | -1.9 | 0.0 | 2.7 | 126.2 | 27.8 |
| (HLLS 20,100,V,V,AV,9) | 16.0 | -113.2 | -0.6 | -4.9 | 0.0 | 2.7 | 121.0 | 22.5 |
| (HLLS 20,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS 20,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS 20,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS 20,100,H,H, P,3) | 17.3 | -122.7 | 0.7 | -2.5 | 0.0 | 2.7 | 135.5 | 37.0 |
| (HLLS 20,100,H,H, P,6) | 17.3 | -126.1 | 0.7 | -5.8 | 0.0 | 2.7 | 135.6 | 37.2 |
| (HLLS 20,100,H,H, P,9) | 17.3 | -120.3 | 0.7 | -4.9 | 0.0 | 2.7 | 130.8 | 32.3 |
| (HLLS 20,100,H,H,AV,3) | 17.3 | -126.9 | 0.7 | -2.5 | 0.0 | 2.7 | 139.7 | 41.3 |
| (HLLS 20,100,H,H,AV,6) | 17.3 | -121.2 | 0.7 | -5.8 | 0.0 | 2.7 | 130.7 | 32.2 |
| (HLLS 20,100,H,H,AV,9) | 17.3 | -118.4 | 0.7 | -4.9 | 0.0 | 2.7 | 128.8 | 30.4 |
| (HLLS 20,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS 20,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS 20,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

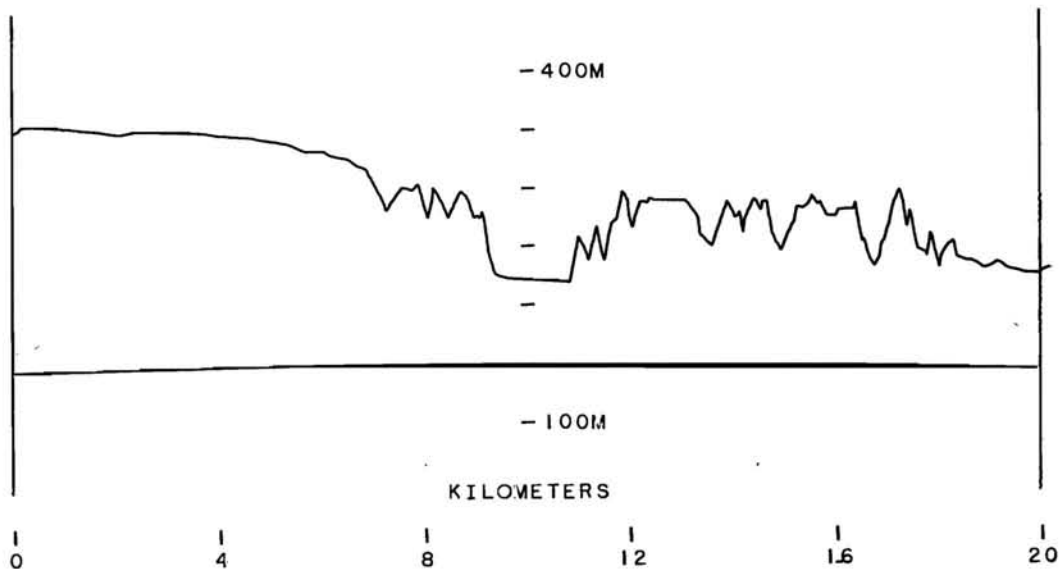
* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 11

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 11
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-24-64

SITE 10FT BELOW HILL, 50FT TREES .1MI IN FRONT, RIGHT, AND LEFT.
CLEAR .25MI TO REAR, THEN HIGH HILL WITH SCATTERED 60FT TREES. 25FT
PHONE LINE 50FT BEHIND, LINES CROSS ROAD 20FT SOUTH.

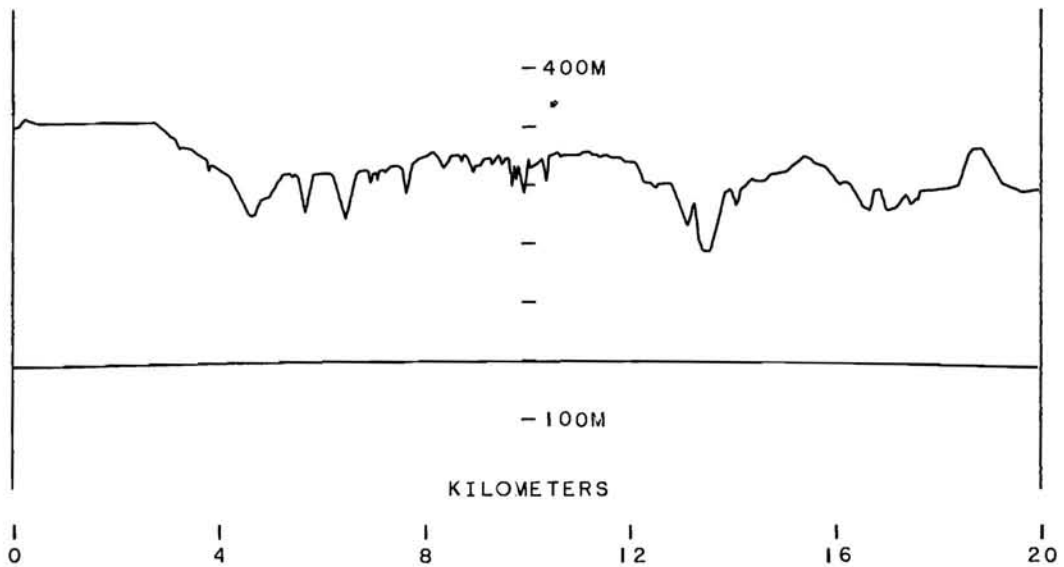
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 23.4 | -122.4 | | -12.7 | | 0.0 | 133.1 | 48.6 |
| (HLLS, 20, 20,V,V,AV,1) | 23.4 | -122.0 | | -12.7 | | 0.0 | 132.7 | 48.2 |
| (HLLS, 20, 20,V,V,AH,1) | 23.4 | -122.0 | | -12.7 | | 0.0 | 132.7 | 48.2 |
| (HLLS, 20, 50,V,V, P,1) | 17.1 | -132.9 | | -8.9 | | 0.8 | 140.3 | 47.8 |
| (HLLS, 20, 50,V,V, P,2) | 17.1 | -128.7 | | -5.5 | | 0.9 | 139.4 | 46.9 |
| (HLLS, 20, 50,V,V,AV,1) | 17.1 | -134.7 | | -8.9 | | 0.8 | 142.1 | 49.6 |
| (HLLS, 20, 50,V,V,AV,2) | 17.1 | -134.7 | | -5.5 | | 0.9 | 145.4 | 52.9 |
| (HLLS, 20, 50,V,V,AH,1) | 17.1 | -132.9 | | -8.9 | | 0.8 | 140.3 | 47.8 |
| (HLLS, 20, 50,V,V,AH,2) | 17.1 | -132.9 | | -5.5 | | 0.9 | 143.6 | 51.1 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -131.0 | 7.6 | -18.5 | 1.4 | 2.7 | 136.0 | 37.5 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -126.4 | 7.6 | -7.0 | 1.4 | 2.7 | 142.9 | 44.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -124.3 | 7.6 | -6.3 | 1.4 | 2.7 | 141.5 | 43.0 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -127.5 | 7.6 | -18.5 | 1.4 | 2.7 | 132.5 | 34.0 |
| (HLLS, 20,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -18.5 | 1.4 | 2.7 | 138.5 | 40.0 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -127.2 | 7.6 | -7.0 | 1.4 | 2.7 | 143.7 | 45.2 |
| (HLLS, 20,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -5.6 | 1.3 | 2.7 | 156.8 | 58.3 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -133.5 | 9.4 | -4.4 | 1.3 | 2.7 | 154.5 | 56.0 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -127.5 | 9.4 | -5.2 | 1.3 | 2.7 | 147.7 | 49.2 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -5.6 | 1.3 | 2.7 | 155.2 | 56.7 |
| (HLLS, 20,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -5.6 | 1.3 | 2.7 | 152.7 | 54.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -129.4 | 9.4 | -4.4 | 1.3 | 2.7 | 150.4 | 51.9 |
| (HLLS, 20,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 12
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 12

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-24-64

30FT TREES TO FRONT, LEFT, AND RIGHT, GOING TO HORIZON. STEEL TANK
100FT HIGH 1/4MI ON RIGHT, 20FT PHONE LINES 10FT IN FRONT, 40FT POWER
LINES 30FT BEHIND, CLEAR FIELD FOR .2MI BEHIND, THEN 50FT TREES TO
HORIZON. PHONE LINES CROSS ROAD 100FT NORTH, 200FT SOUTH, POWER
LINES CROSS ROAD 40FT NORTH.

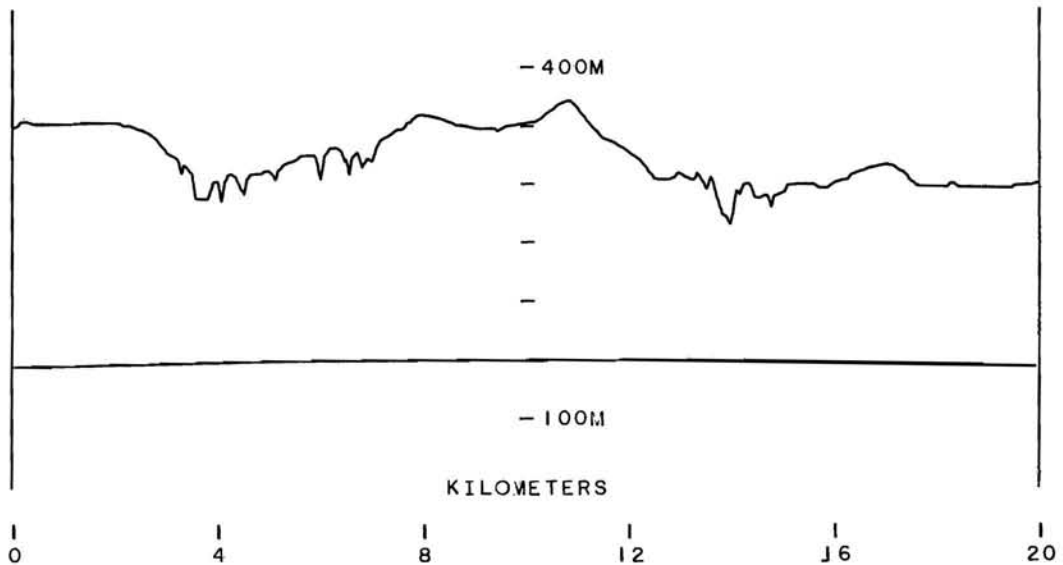
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.9 | -122.7 | | -12.9 | | 0.0 | 132.7 | 48.2 |
| (HLLS, 20, 20,V,V,AV,1) | 22.9 | -124.5 | | -12.9 | | 0.0 | 134.5 | 50.0 |
| (HLLS, 20, 20,V,V,AH,1) | 22.9 | -122.2 | | -12.9 | | 0.0 | 132.2 | 47.7 |
| (HLLS, 20, 50,V,V, P,1) | 15.7 | -131.0 | | -7.3 | | 0.8 | 138.6 | 46.1 |
| (HLLS, 20, 50,V,V, P,2) | 15.7 | -132.9 | | -5.4 | | 0.9 | 142.3 | 49.8 |
| (HLLS, 20, 50,V,V,AV,1) | 15.7 | -133.5 | | -7.3 | | 0.8 | 141.1 | 48.6 |
| (HLLS, 20, 50,V,V,AV,2) | 15.7 | -130.2 | | -5.4 | | 0.9 | 139.6 | 47.1 |
| (HLLS, 20, 50,V,V,AH,1) | 15.7 | -133.5 | | -7.3 | | 0.8 | 141.1 | 48.6 |
| (HLLS, 20, 50,V,V,AH,2) | 15.7 | -130.2 | | -5.4 | | 0.9 | 139.6 | 47.1 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.4 | 7.6 | -9.7 | 1.4 | 2.7 | 146.2 | 47.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -124.5 | 7.6 | -4.1 | 1.4 | 2.7 | 143.9 | 45.4 |
| (HLLS, 20,100,V,V, P,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -125.9 | 7.6 | -9.7 | 1.4 | 2.7 | 139.7 | 41.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -123.0 | 7.6 | -4.1 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -127.5 | 7.6 | -9.7 | 1.4 | 2.7 | 141.3 | 42.8 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -123.0 | 7.6 | -4.1 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -121.7 | 7.6 | -6.9 | 1.4 | 2.7 | 138.3 | 39.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -123.4 | 9.4 | -5.2 | 1.3 | 2.7 | 143.6 | 45.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -117.9 | 9.4 | -5.0 | 1.3 | 2.7 | 138.3 | 39.8 |
| (HLLS, 20,100,H,H, P,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -120.4 | 9.4 | -5.2 | 1.3 | 2.7 | 140.6 | 42.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -112.6 | 9.4 | -5.0 | 1.3 | 2.7 | 133.0 | 34.5 |
| (HLLS, 20,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -117.0 | 9.4 | -5.2 | 1.3 | 2.7 | 137.2 | 38.7 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.0 | 9.4 | -5.0 | 1.3 | 2.7 | 134.4 | 35.9 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -110.6 | 9.4 | -5.3 | 1.3 | 2.7 | 130.7 | 32.2 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 13
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 13

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-23-64

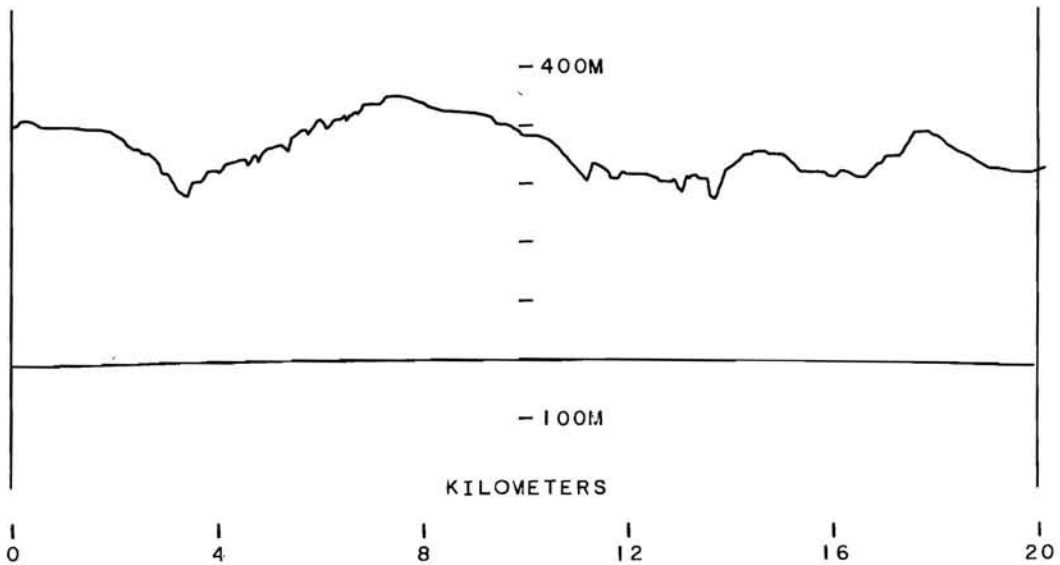
ROAD IN FRONT, 40FT TREES LEFT AND RIGHT TO HORIZON, CLEAR BEHIND.
 40FT POWER LINES CROSS ROAD 50FT NORTH, 40FT POWER LINES 15FT TO WEST
 OF ROAD, GOING NORTH-SOUTH, 20FT PHONE LINES IN SAME DIRECTION 30FT
 EAST OF ROAD. POWER LINES CROSS ROAD 100FT SOUTH.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.5 | -127.5 | | -13.1 | | 0.0 | 136.9 | 52.4 |
| (HLLS, 20, 20,V,V,AV,1) | 22.5 | -123.4 | | -13.1 | | 0.0 | 132.8 | 48.3 |
| (HLLS, 20, 20,V,V,AH,1) | 22.5 | -128.7 | | -13.1 | | 0.0 | 138.1 | 53.6 |
| (HLLS, 20, 50,V,V, P,1) | 14.5 | -130.2 | | -7.4 | | 0.8 | 136.5 | 44.0 |
| (HLLS, 20, 50,V,V, P,2) | 14.5 | -126.9 | | -5.5 | | 0.9 | 135.0 | 42.5 |
| (HLLS, 20, 50,V,V,AV,1) | 14.5 | -128.1 | | -7.4 | | 0.8 | 134.4 | 41.9 |
| (HLLS, 20, 50,V,V,AV,2) | 14.5 | -131.4 | | -5.5 | | 0.9 | 139.5 | 47.0 |
| (HLLS, 20, 50,V,V,AH,1) | 14.5 | -127.5 | | -7.4 | | 0.8 | 133.8 | 41.3 |
| (HLLS, 20, 50,V,V,AH,2) | 14.5 | -129.0 | | -5.5 | | 0.9 | 137.1 | 44.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -129.4 | 7.6 | -10.7 | 1.4 | 2.7 | 142.2 | 43.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -124.9 | 7.6 | -4.8 | 1.4 | 2.7 | 143.6 | 45.1 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -122.7 | 7.6 | -7.2 | 1.4 | 2.7 | 139.0 | 40.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -126.9 | 7.6 | -10.7 | 1.4 | 2.7 | 139.7 | 41.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -123.0 | 7.6 | -4.8 | 1.4 | 2.7 | 141.7 | 43.2 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -121.4 | 7.6 | -7.2 | 1.4 | 2.7 | 137.7 | 39.2 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -132.4 | 7.6 | -10.7 | 1.4 | 2.7 | 145.2 | 46.7 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -126.4 | 7.6 | -4.8 | 1.4 | 2.7 | 145.1 | 46.6 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -122.2 | 7.6 | -7.2 | 1.4 | 2.7 | 138.5 | 40.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -129.4 | 9.4 | -5.5 | 1.3 | 2.7 | 149.3 | 50.8 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -120.4 | 9.4 | -4.8 | 1.3 | 2.7 | 141.0 | 42.5 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -114.0 | 9.4 | -5.3 | 1.3 | 2.7 | 134.1 | 35.6 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -127.5 | 9.4 | -5.5 | 1.3 | 2.7 | 147.4 | 48.9 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -117.0 | 9.4 | -4.8 | 1.3 | 2.7 | 137.6 | 39.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -114.7 | 9.4 | -5.3 | 1.3 | 2.7 | 134.8 | 36.3 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -120.7 | 9.4 | -5.5 | 1.3 | 2.7 | 140.6 | 42.1 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -118.1 | 9.4 | -4.8 | 1.3 | 2.7 | 138.7 | 40.2 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -117.4 | 9.4 | -5.3 | 1.3 | 2.7 | 137.5 | 39.0 |

OHIO HILLS B= 20KM SITE 14
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 14

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-23-64

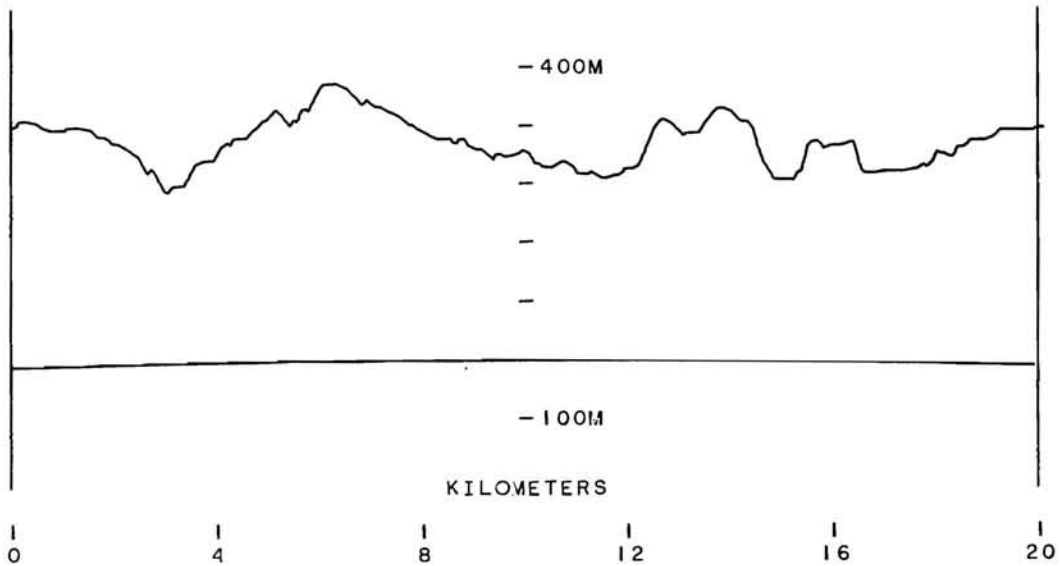
60FT TREES 200FT TO FRONT AND TO RIGHT, GOING TO HORIZON. ROAD LEFT,
TREES ALSO .1MI BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 21.9 | -116.6 | | -5.4 | | 0.0 | 133.1 | 48.6 |
| (HLLS, 20, 20,V,V,AV,1) | 21.9 | -116.6 | | -5.4 | | 0.0 | 133.1 | 48.6 |
| (HLLS, 20, 20,V,V,AH,1) | 21.9 | -114.0 | | -5.4 | | 0.0 | 130.5 | 46.0 |
| (HLLS, 20, 50,V,V, P,1) | 14.1 | -126.9 | | -6.2 | | 0.8 | 134.0 | 41.5 |
| (HLLS, 20, 50,V,V, P,2) | 14.1 | -126.9 | | -6.2 | | 0.9 | 133.9 | 41.4 |
| (HLLS, 20, 50,V,V,AV,1) | 14.1 | -126.9 | | -6.2 | | 0.8 | 134.0 | 41.5 |
| (HLLS, 20, 50,V,V,AV,2) | 14.1 | -126.9 | | -6.2 | | 0.9 | 133.9 | 41.4 |
| (HLLS, 20, 50,V,V,AH,1) | 14.1 | -126.9 | | -6.2 | | 0.8 | 134.0 | 41.5 |
| (HLLS, 20, 50,V,V,AH,2) | 14.1 | -126.9 | | -6.2 | | 0.9 | 133.9 | 41.4 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -123.4 | 7.6 | -8.7 | 1.4 | 2.7 | 138.2 | 39.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -118.1 | 7.6 | -4.2 | 1.4 | 2.7 | 137.4 | 38.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -115.8 | 7.6 | -5.4 | 1.4 | 2.7 | 133.9 | 35.4 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -123.4 | 7.6 | -8.7 | 1.4 | 2.7 | 138.2 | 39.7 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -118.1 | 7.6 | -4.2 | 1.4 | 2.7 | 137.4 | 38.9 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -115.8 | 7.6 | -5.4 | 1.4 | 2.7 | 133.9 | 35.4 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -127.6 | 7.6 | -8.7 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -122.7 | 7.6 | -4.2 | 1.4 | 2.7 | 142.0 | 43.5 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -121.2 | 7.6 | -5.4 | 1.4 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -123.0 | 9.4 | -9.3 | 1.3 | 2.7 | 139.1 | 40.6 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -114.0 | 9.4 | -6.3 | 1.3 | 2.7 | 133.1 | 34.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -111.9 | 9.4 | -6.6 | 1.3 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.0 | 9.4 | -9.3 | 1.3 | 2.7 | 139.1 | 40.6 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -114.0 | 9.4 | -6.3 | 1.3 | 2.7 | 133.1 | 34.6 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -111.9 | 9.4 | -6.6 | 1.3 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -121.2 | 9.4 | -9.3 | 1.3 | 2.7 | 137.3 | 38.8 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.0 | 9.4 | -6.3 | 1.3 | 2.7 | 133.1 | 34.6 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -111.4 | 9.4 | -6.6 | 1.3 | 2.7 | 130.2 | 31.7 |

OHIO HILLS B= 20KM SITE 15
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 15

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-23-64

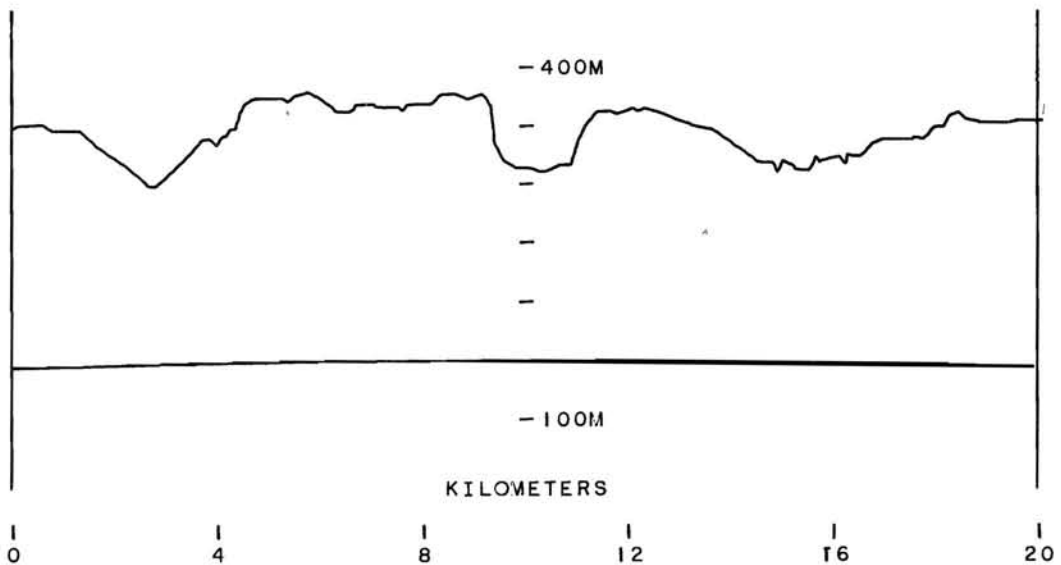
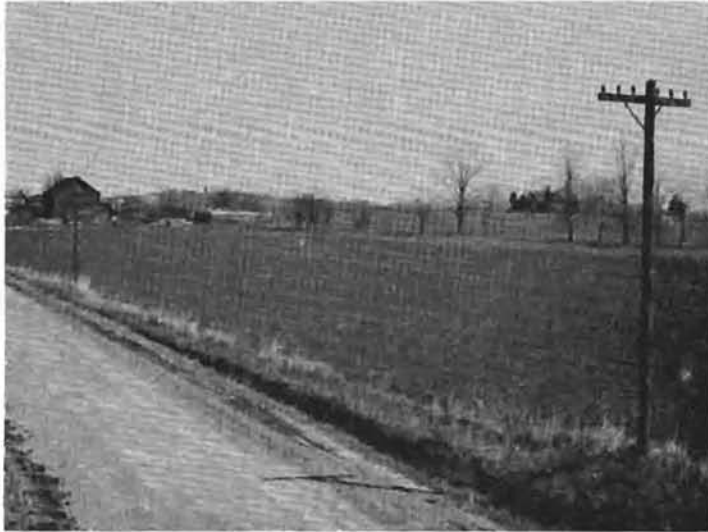
SCATTERED 40FT TREES TO HORIZON. 20FT PHONE LINES 30FT BEHIND, FARMHOUSE 100FT BEHIND, 40FT POWER LINES 15FT IN FRONT. POWER LINES ALSO CROSS ROAD 100FT SOUTH, PHONE LINES CROSS ROAD 200FT NORTH.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.9 | -118.9 | | -5.4 | | 0.0 | 133.4 | 48.9 |
| (HLLS, 20, 20,V,V,AV,1) | 19.9 | -118.4 | | -5.4 | | 0.0 | 132.9 | 48.4 |
| (HLLS, 20, 20,V,V,AH,1) | 19.9 | -118.4 | | -5.4 | | 0.0 | 132.9 | 48.4 |
| (HLLS, 20, 50,V,V, P,1) | 15.0 | -130.2 | | -5.8 | | 0.8 | 138.6 | 46.1 |
| (HLLS, 20, 50,V,V, P,2) | 15.0 | -131.4 | | -6.5 | | 0.9 | 139.0 | 46.5 |
| (HLLS, 20, 50,V,V,AV,1) | 15.0 | -128.7 | | -5.8 | | 0.8 | 137.1 | 44.6 |
| (HLLS, 20, 50,V,V,AV,2) | 15.0 | -131.9 | | -6.5 | | 0.9 | 139.5 | 47.0 |
| (HLLS, 20, 50,V,V,AH,1) | 15.0 | -130.2 | | -5.8 | | 0.8 | 138.6 | 46.1 |
| (HLLS, 20, 50,V,V,AH,2) | 15.0 | -133.5 | | -6.5 | | 0.9 | 141.1 | 48.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -127.5 | 7.6 | -9.0 | 1.4 | 2.7 | 142.0 | 43.5 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -123.2 | 7.6 | -4.3 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -121.0 | 7.6 | -5.2 | 1.4 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -122.2 | 7.6 | -9.0 | 1.4 | 2.7 | 136.7 | 38.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -119.2 | 7.6 | -4.3 | 1.4 | 2.7 | 138.4 | 39.9 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -118.4 | 7.6 | -5.2 | 1.4 | 2.7 | 136.7 | 38.2 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -123.0 | 7.6 | -9.0 | 1.4 | 2.7 | 137.5 | 39.0 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -121.6 | 7.6 | -4.3 | 1.4 | 2.7 | 140.8 | 42.3 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -119.6 | 7.6 | -5.2 | 1.4 | 2.7 | 137.9 | 39.4 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -124.8 | 9.4 | -9.2 | 1.3 | 2.7 | 141.0 | 42.5 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -120.7 | 9.4 | -6.0 | 1.3 | 2.7 | 140.1 | 41.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -121.4 | 9.4 | -6.0 | 1.3 | 2.7 | 140.8 | 42.3 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -128.7 | 9.4 | -9.2 | 1.3 | 2.7 | 144.9 | 46.4 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -121.3 | 9.4 | -6.0 | 1.3 | 2.7 | 140.7 | 42.2 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -119.9 | 9.4 | -6.0 | 1.3 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.0 | 9.4 | -9.2 | 1.3 | 2.7 | 139.2 | 40.7 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -120.4 | 9.4 | -6.0 | 1.3 | 2.7 | 139.8 | 41.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -119.6 | 9.4 | -6.0 | 1.3 | 2.7 | 139.0 | 40.5 |

OHIO HILLS B= 20KM SITE 16
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 16

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-23-64

CLEAR FIELD 300FT TO FRONT, LEFT, AND RIGHT, FOLLOWED BY A ROW OF 40 FT TREES, THEN ANOTHER CLEAR FIELD FOR .25MI, THEN SCATTERED 40FT TREES TO HORIZON. 20FT PHONE LINES 30FT AHEAD, CLEAR 300FT BEHIND, THEN 60FT GROVE OF TREES.

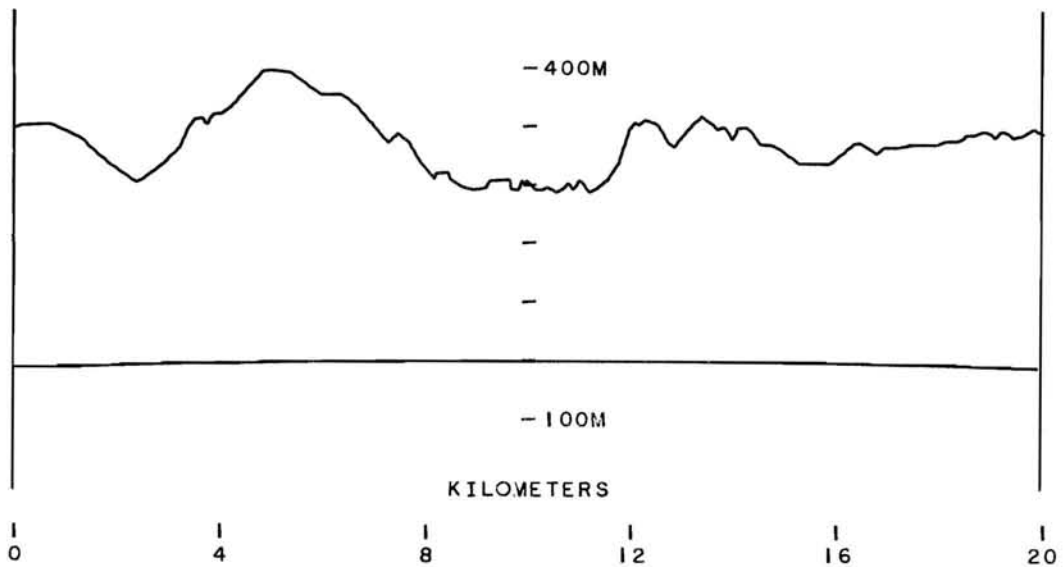
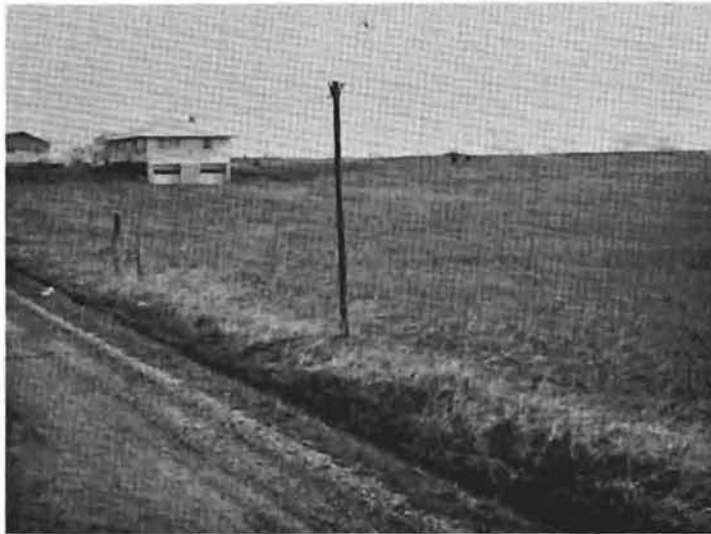
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.2 | -129.0 | | -11.5 | | 0.0 | 134.7 | 50.2 |
| (HLLS, 20, 20,V,V,AV,1) | 17.2 | -125.4 | | -11.5 | | 0.0 | 131.1 | 46.6 |
| (HLLS, 20, 20,V,V,AH,1) | 17.2 | -125.9 | | -11.5 | | 0.0 | 131.6 | 47.1 |
| (HLLS, 20, 50,V,V, P,1) | 16.7 | -131.0 | | -8.7 | | 0.8 | 138.2 | 45.7 |
| (HLLS, 20, 50,V,V, P,2) | 16.7 | -126.4 | | -5.2 | | 0.9 | 137.0 | 44.5 |
| (HLLS, 20, 50,V,V,AV,1) | 16.7 | -129.4 | | -8.7 | | 0.8 | 136.6 | 44.1 |
| (HLLS, 20, 50,V,V,AV,2) | 16.7 | -124.8 | | -5.2 | | 0.9 | 135.4 | 42.9 |
| (HLLS, 20, 50,V,V,AH,1) | 16.7 | -130.6 | | -8.7 | | 0.8 | 137.8 | 45.3 |
| (HLLS, 20, 50,V,V,AH,2) | 16.7 | -125.9 | | -5.2 | | 0.9 | 136.5 | 44.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.9 | 7.6 | -7.3 | 1.4 | 2.7 | 149.1 | 50.6 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -126.1 | 7.6 | -2.0 | 1.4 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -123.0 | 7.6 | -4.9 | 1.4 | 2.7 | 141.6 | 43.1 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -129.8 | 7.6 | -7.3 | 1.4 | 2.7 | 146.0 | 47.5 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -123.9 | 7.6 | -2.0 | 1.4 | 2.7 | 145.4 | 46.9 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -121.7 | 7.6 | -4.9 | 1.4 | 2.7 | 140.3 | 41.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -135.4 | 7.6 | -7.3 | 1.4 | 2.7 | 151.6 | 53.1 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -129.4 | 7.6 | -2.0 | 1.4 | 2.7 | 150.9 | 52.4 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -126.1 | 7.6 | -4.9 | 1.4 | 2.7 | 144.7 | 46.2 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -136.6 | 9.4 | -2.7 | 1.3 | 2.7 | 159.3 | 60.8 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -126.4 | 9.4 | -5.8 | 1.3 | 2.7 | 146.0 | 47.5 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -121.4 | 9.4 | -4.9 | 1.3 | 2.7 | 141.9 | 43.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -136.6 | 9.4 | -2.7 | 1.3 | 2.7 | 159.3 | 60.8 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -124.3 | 9.4 | -5.8 | 1.3 | 2.7 | 143.9 | 45.4 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -120.1 | 9.4 | -4.9 | 1.3 | 2.7 | 140.6 | 42.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -134.0 | 9.4 | -2.7 | 1.3 | 2.7 | 156.7 | 58.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -124.5 | 9.4 | -5.8 | 1.3 | 2.7 | 144.1 | 45.6 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -119.9 | 9.4 | -4.9 | 1.3 | 2.7 | 140.4 | 41.9 |

OHIO HILLS B= 20KM SITE 17

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 17

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-23-64

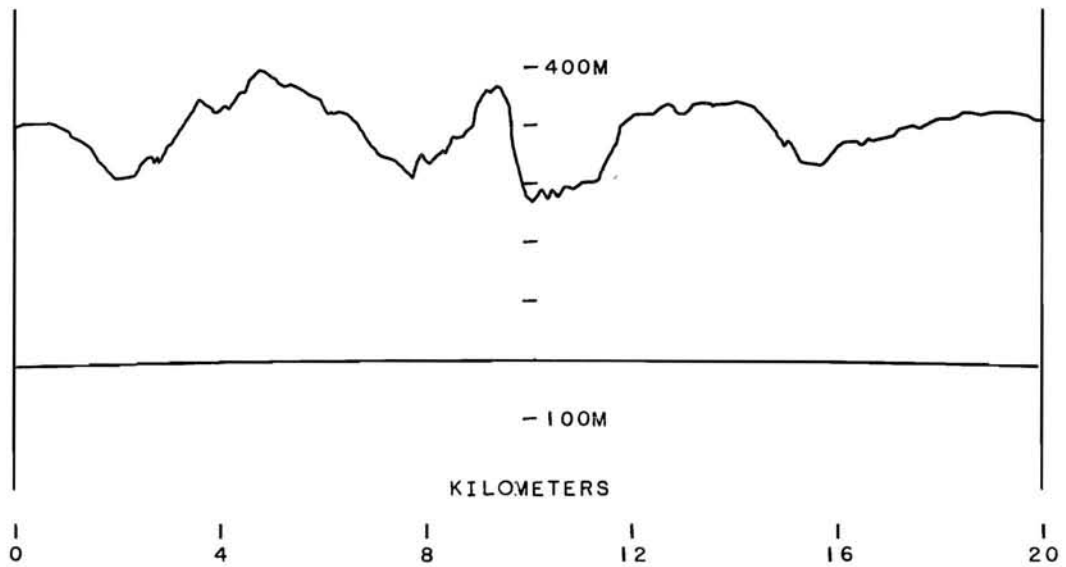
CLEAR FOR 1/2MI IN FRONT, THEN FEW 30FT TREES TO HORIZON, CLEAR TO HORIZON ON RIGHT, HOUSE 300FT AWAY ON LEFT. 20FT PHONE LINES 30FT IN FRONT, 40FT POWER LINES 20FT BEHIND, ALSO CROSSING ROAD 300FT NORTH.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.0 | -122.7 | | -10.8 | | 0.0 | 128.9 | 44.4 |
| (HLLS, 20, 20,V,V,AV,1) | 17.0 | -127.6 | | -10.8 | | 0.0 | 133.8 | 49.3 |
| (HLLS, 20, 20,V,V,AH,1) | 17.0 | -122.7 | | -10.8 | | 0.0 | 128.9 | 44.4 |
| (HLLS, 20, 50,V,V, P,1) | 18.7 | -131.0 | | -9.3 | | 0.8 | 139.6 | 47.1 |
| (HLLS, 20, 50,V,V, P,2) | 18.7 | -128.1 | | -5.2 | | 0.9 | 140.7 | 48.2 |
| (HLLS, 20, 50,V,V,AV,1) | 18.7 | -131.4 | | -9.3 | | 0.8 | 140.0 | 47.5 |
| (HLLS, 20, 50,V,V,AV,2) | 18.7 | -128.1 | | -5.2 | | 0.9 | 140.7 | 48.2 |
| (HLLS, 20, 50,V,V,AH,1) | 18.7 | -131.0 | | -9.3 | | 0.8 | 139.6 | 47.1 |
| (HLLS, 20, 50,V,V,AH,2) | 18.7 | -128.1 | | -5.2 | | 0.9 | 140.7 | 48.2 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -131.4 | 7.6 | -6.9 | 1.4 | 2.7 | 148.0 | 49.5 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -126.4 | 7.6 | -1.7 | 1.4 | 2.7 | 148.2 | 49.7 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -124.8 | 7.6 | -4.5 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -128.4 | 7.6 | -6.9 | 1.4 | 2.7 | 145.0 | 46.5 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -124.1 | 7.6 | -1.7 | 1.4 | 2.7 | 145.9 | 47.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -121.7 | 7.6 | -4.5 | 1.4 | 2.7 | 140.7 | 42.2 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -131.4 | 7.6 | -6.9 | 1.4 | 2.7 | 148.0 | 49.5 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -126.4 | 7.6 | -1.7 | 1.4 | 2.7 | 148.2 | 49.7 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -124.8 | 7.6 | -4.5 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -134.0 | 9.4 | -2.0 | 1.3 | 2.7 | 157.4 | 58.9 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -130.2 | 9.4 | -5.9 | 1.3 | 2.7 | 149.7 | 51.2 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -127.2 | 9.4 | -4.7 | 1.3 | 2.7 | 147.9 | 49.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -136.6 | 9.4 | -2.0 | 1.3 | 2.7 | 160.0 | 61.5 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -128.4 | 9.4 | -5.9 | 1.3 | 2.7 | 147.9 | 49.4 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -124.8 | 9.4 | -4.7 | 1.3 | 2.7 | 145.5 | 47.0 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -134.0 | 9.4 | -2.0 | 1.3 | 2.7 | 157.4 | 58.9 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -130.2 | 9.4 | -5.9 | 1.3 | 2.7 | 149.7 | 51.2 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -127.2 | 9.4 | -4.7 | 1.3 | 2.7 | 147.9 | 49.4 |

OHIO HILLS B= 20KM SITE 18
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 18

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-22-64

40FT TREES IN FRONT, 200FT DEEP, 40FT TREES 50FT BEHIND, 300FT DEEP,
LEVEL TERRAIN BEYOND, 40FT TREES TO RIGHT AND LEFT, 30FT POWER LINES
20FT BEHIND.

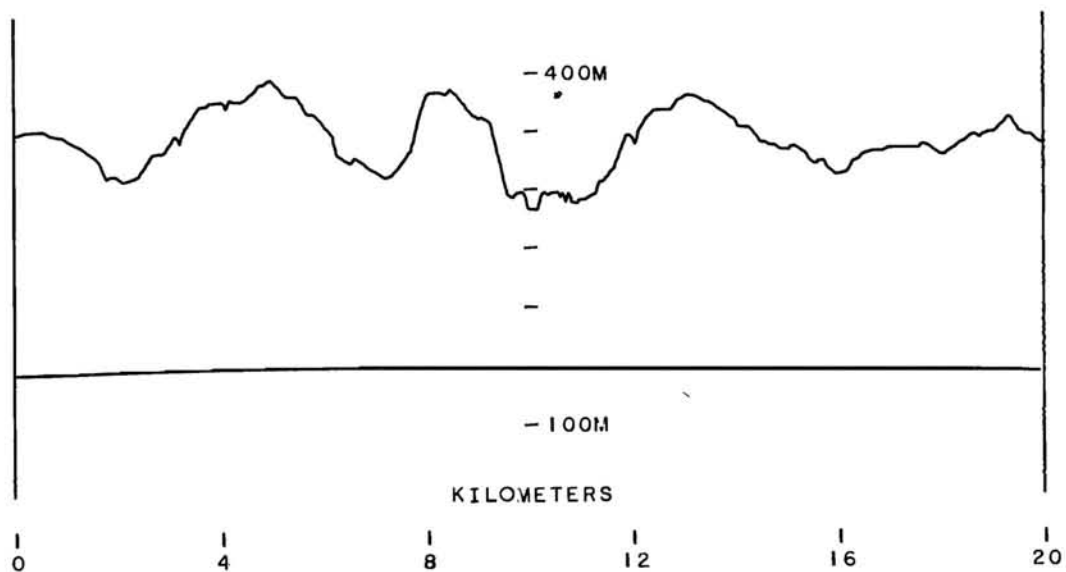
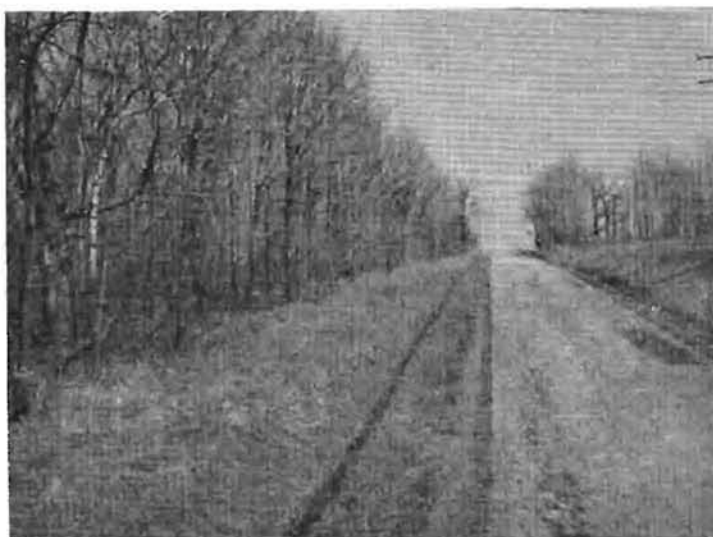
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.0 | -123.4 | | -5.1 | | 0.0 | 135.3 | 50.8 |
| (HLLS, 20, 20,V,V,AV,1) | 17.0 | -119.9 | | -5.1 | | 0.0 | 131.8 | 47.3 |
| (HLLS, 20, 20,V,V,AH,1) | 17.0 | -122.0 | | -5.1 | | 0.0 | 133.9 | 49.4 |
| (HLLS, 20, 50,V,V, P,1) | 19.5 | -128.7 | | -7.3 | | 0.8 | 140.1 | 47.6 |
| (HLLS, 20, 50,V,V, P,2) | 19.5 | -128.7 | | -5.2 | | 0.9 | 142.1 | 49.6 |
| (HLLS, 20, 50,V,V,AV,1) | 19.5 | -122.2 | | -7.3 | | 0.8 | 133.6 | 41.1 |
| (HLLS, 20, 50,V,V,AV,2) | 19.5 | -119.5 | | -5.2 | | 0.9 | 132.9 | 40.4 |
| (HLLS, 20, 50,V,V,AH,1) | 19.5 | -129.8 | | -7.3 | | 0.8 | 141.2 | 48.7 |
| (HLLS, 20, 50,V,V,AH,2) | 19.5 | -129.8 | | -5.2 | | 0.9 | 143.2 | 50.7 |
| (HLLS, 20, 100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -4.4 | 1.4 | 2.7 | 155.3 | 56.8 |
| (HLLS, 20, 100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -2.2 | 1.4 | 2.7 | 156.0 | 57.5 |
| (HLLS, 20, 100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -6.4 | 1.4 | 2.7 | 148.1 | 49.6 |
| (HLLS, 20, 100,V,V,AV,3) | 20.0 | -127.5 | 7.6 | -4.4 | 1.4 | 2.7 | 146.6 | 48.1 |
| (HLLS, 20, 100,V,V,AV,6) | 20.0 | -128.1 | 7.6 | -2.2 | 1.4 | 2.7 | 149.4 | 50.9 |
| (HLLS, 20, 100,V,V,AV,9) | 20.0 | -125.9 | 7.6 | -6.4 | 1.4 | 2.7 | 143.0 | 44.5 |
| (HLLS, 20, 100,V,V,AH,3) | 20.0 | -134.7 | 7.6 | -4.4 | 1.4 | 2.7 | 153.8 | 55.3 |
| (HLLS, 20, 100,V,V,AH,6) | 20.0 | -134.0 | 7.6 | -2.2 | 1.4 | 2.7 | 155.3 | 56.8 |
| (HLLS, 20, 100,V,V,AH,9) | 20.0 | -131.9 | 7.6 | -6.4 | 1.4 | 2.7 | 149.0 | 50.5 |
| (HLLS, 20, 100,H,H, P,3) | 20.0 | -136.2 | 9.4 | -1.0 | 1.3 | 2.7 | 160.6 | 62.1 |
| (HLLS, 20, 100,H,H, P,6) | 20.0 | -127.6 | 9.4 | -6.2 | 1.3 | 2.7 | 146.8 | 48.3 |
| (HLLS, 20, 100,H,H, P,9) | 20.0 | -126.1 | 9.4 | -7.0 | 1.3 | 2.7 | 144.5 | 46.0 |
| (HLLS, 20, 100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -1.0 | 1.3 | 2.7 | 161.4 | 62.9 |
| (HLLS, 20, 100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 48.2 |
| (HLLS, 20, 100,H,H,AV,9) | 20.0 | -123.4 | 9.4 | -7.0 | 1.3 | 2.7 | 141.8 | 43.3 |
| (HLLS, 20, 100,H,H,AH,3) | 20.0 | -128.7 | 9.4 | -1.0 | 1.3 | 2.7 | 153.1 | 54.6 |
| (HLLS, 20, 100,H,H,AH,6) | 20.0 | -130.2 | 9.4 | -6.2 | 1.3 | 2.7 | 149.4 | 50.9 |
| (HLLS, 20, 100,H,H,AH,9) | 20.0 | -126.4 | 9.4 | -7.0 | 1.3 | 2.7 | 144.8 | 46.3 |

OHIO HILLS B= 20KM SITE 19

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 19
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-22-64

40FT TREES 50FT TO FRONT, RIGHT, AND LEFT, HILLY TERRAIN IN FRONT.
20FT PHONE LINES 15FT TO FRONT, LEFT, AND RIGHT, 40FT POWER LINES 30
FT BEHIND, PHONE LINES CROSS ROAD 20FT EAST.

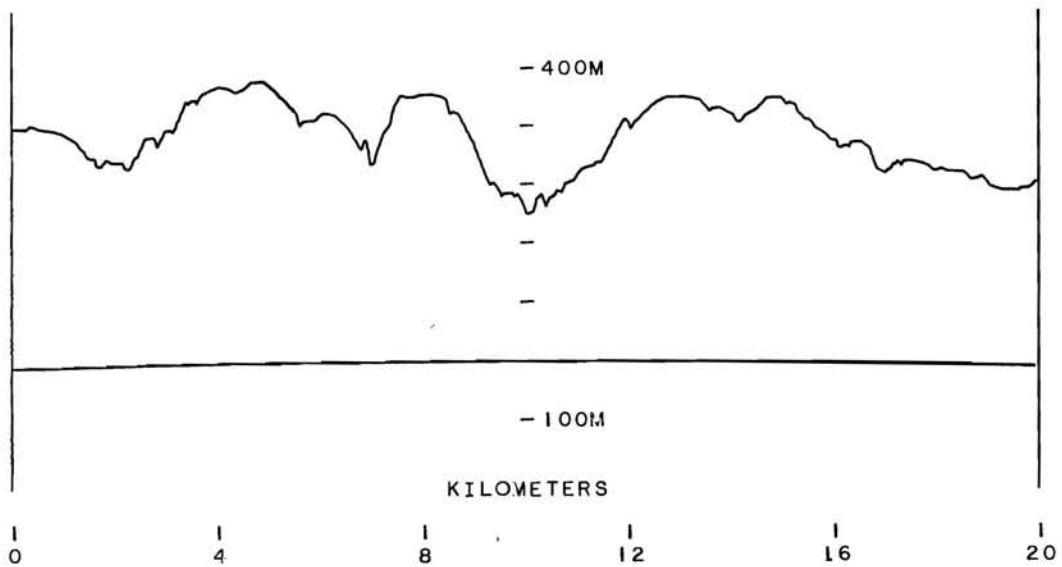
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.0 | -127.5 | | -12.4 | | 0.0 | 132.1 | 47.6 |
| (HLLS, 20, 20,V,V,AV,1) | 17.0 | -129.4 | | -12.4 | | 0.0 | 134.0 | 49.5 |
| (HLLS, 20, 20,V,V,AH,1) | 17.0 | -131.0 | | -12.4 | | 0.0 | 135.6 | 51.1 |
| (HLLS, 20, 50,V,V, P,1) | 20.0 | -137.0 | | -11.3 | | 0.8 | 144.9 | 52.4 |
| (HLLS, 20, 50,V,V, P,2) | 20.0 | -128.7 | | -5.5 | | 0.9 | 142.3 | 49.8 |
| (HLLS, 20, 50,V,V,AV,1) | 20.0 | -134.7 | | -11.3 | | 0.8 | 142.6 | 50.1 |
| (HLLS, 20, 50,V,V,AV,2) | 20.0 | -128.7 | | -5.5 | | 0.9 | 142.3 | 49.8 |
| (HLLS, 20, 50,V,V,AH,1) | 20.0 | -137.0 | | -11.3 | | 0.8 | 144.9 | 52.4 |
| (HLLS, 20, 50,V,V,AH,2) | 20.0 | -128.1 | | -5.5 | | 0.9 | 141.7 | 49.2 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -137.9 | 7.6 | -8.4 | 1.4 | 2.7 | 153.0 | 54.5 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -134.0 | 7.6 | -5.7 | 1.4 | 2.7 | 151.8 | 53.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -137.0 | 7.6 | -23.5 | 1.4 | 2.7 | 137.0 | 38.5 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -136.2 | 7.6 | -8.4 | 1.4 | 2.7 | 151.3 | 52.8 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -136.2 | 7.6 | -5.7 | 1.4 | 2.7 | 154.0 | 55.5 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | ** | 7.6 | -23.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -135.4 | 7.6 | -8.4 | 1.4 | 2.7 | 150.5 | 52.0 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -135.4 | 7.6 | -5.7 | 1.4 | 2.7 | 153.2 | 54.7 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -135.4 | 9.4 | -4.5 | 1.3 | 2.7 | 156.3 | 57.8 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -129.0 | 9.4 | -5.4 | 1.3 | 2.7 | 149.0 | 50.5 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -4.4 | 1.3 | 2.7 | 158.0 | 59.5 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -132.4 | 9.4 | -4.5 | 1.3 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -129.4 | 9.4 | -5.4 | 1.3 | 2.7 | 149.4 | 50.9 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -4.4 | 1.3 | 2.7 | 153.9 | 55.4 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -128.7 | 9.4 | -4.5 | 1.3 | 2.7 | 149.6 | 51.1 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -126.4 | 9.4 | -5.4 | 1.3 | 2.7 | 146.4 | 47.9 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 20KM SITE 20
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 20

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-22-64

CLEAR IN FRONT FOR .4MI, THEN 60FT TREES TO HORIZON. POWER LINES TO FRONT, RIGHT, AND LEFT 1/4MI AWAY, 60FT POWER LINES 50FT BEHIND.

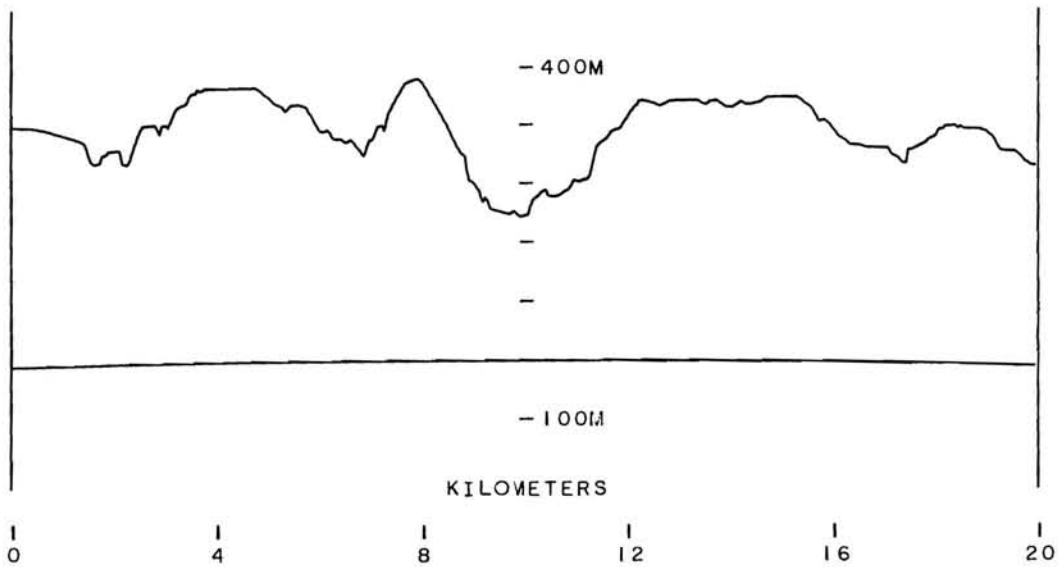
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.1 | -114.7 | | -5.5 | | 0.0 | 126.3 | 41.8 |
| (HLLS, 20, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V, P,1) | 20.6 | -123.0 | | -8.4 | | 0.8 | 134.4 | 41.9 |
| (HLLS, 20, 50,V,V, P,2) | 20.6 | -120.5 | | -5.2 | | 0.9 | 135.0 | 42.5 |
| (HLLS, 20, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -128.7 | 7.6 | -4.3 | 1.4 | 2.7 | 147.9 | 49.4 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -124.9 | 7.6 | -2.3 | 1.4 | 2.7 | 146.1 | 47.6 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -124.9 | 7.6 | -6.5 | 1.4 | 2.7 | 141.9 | 43.4 |
| (HLLS, 20,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -129.4 | 9.4 | 0.0 | 1.3 | 2.7 | 154.8 | 56.3 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -122.0 | 9.4 | -6.3 | 1.3 | 2.7 | 141.1 | 42.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -123.7 | 9.4 | -6.8 | 1.3 | 2.7 | 142.3 | 43.8 |
| (HLLS, 20,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 21
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 21

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-22-64

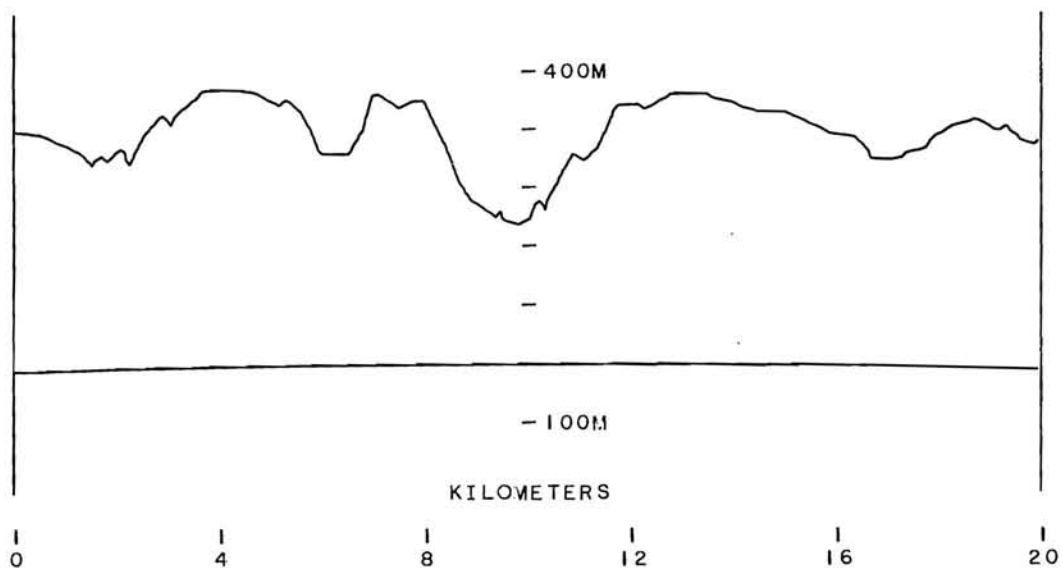
60FT TREES .4MI IN FRONT TO HORIZON, 1/4MI TO LEFT, AND 1/4MI BEHIND.
 30FT POWER LINES 50FT IN FRONT, 20FT PHONE LINES 20FT BEHIND. PHONE
 LINES CROSS ROAD 75FT WEST.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.6 | -118.7 | | -5.0 | | 0.0 | 131.3 | 46.8 |
| (HLLS, 20, 20,V,V,AV,1) | 17.6 | -119.5 | | -5.0 | | 0.0 | 132.1 | 47.6 |
| (HLLS, 20, 20,V,V,AH,1) | 17.6 | -118.9 | | -5.0 | | 0.0 | 131.5 | 47.0 |
| (HLLS, 20, 50,V,V, P,1) | 20.9 | -128.1 | | -2.0 | | 0.8 | 146.2 | 53.7 |
| (HLLS, 20, 50,V,V, P,2) | 20.9 | -125.9 | | -9.0 | | 0.9 | 136.9 | 44.4 |
| (HLLS, 20, 50,V,V,AV,1) | 20.9 | -126.4 | | -2.0 | | 0.8 | 144.5 | 52.0 |
| (HLLS, 20, 50,V,V,AV,2) | 20.9 | -126.4 | | -9.0 | | 0.9 | 137.4 | 44.9 |
| (HLLS, 20, 50,V,V,AH,1) | 20.9 | -126.6 | | -2.0 | | 0.8 | 144.7 | 52.2 |
| (HLLS, 20, 50,V,V,AH,2) | 20.9 | -124.8 | | -9.0 | | 0.9 | 135.8 | 43.3 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -1.5 | 1.4 | 2.7 | 157.4 | 58.9 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -2.4 | 1.4 | 2.7 | 152.5 | 54.0 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -128.7 | 7.6 | -2.2 | 1.4 | 2.7 | 150.0 | 51.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -132.4 | 7.6 | -1.5 | 1.4 | 2.7 | 154.4 | 55.9 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -131.0 | 7.6 | -2.4 | 1.4 | 2.7 | 152.1 | 53.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -129.0 | 7.6 | -2.2 | 1.4 | 2.7 | 150.3 | 51.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -138.9 | 7.6 | -1.5 | 1.4 | 2.7 | 160.9 | 62.4 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -133.5 | 7.6 | -2.4 | 1.4 | 2.7 | 154.6 | 56.1 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -130.6 | 7.6 | -2.2 | 1.4 | 2.7 | 151.9 | 53.4 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -5.3 | 1.3 | 2.7 | 157.1 | 58.6 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -127.6 | 9.4 | -2.6 | 1.3 | 2.7 | 150.4 | 51.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -127.6 | 9.4 | -3.2 | 1.3 | 2.7 | 149.8 | 51.3 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -5.3 | 1.3 | 2.7 | 155.5 | 57.0 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -2.6 | 1.3 | 2.7 | 150.3 | 51.8 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -126.6 | 9.4 | -3.2 | 1.3 | 2.7 | 148.8 | 50.3 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -134.0 | 9.4 | -5.3 | 1.3 | 2.7 | 154.1 | 55.6 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -131.9 | 9.4 | -2.6 | 1.3 | 2.7 | 154.7 | 56.2 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -129.8 | 9.4 | -3.2 | 1.3 | 2.7 | 152.0 | 53.5 |

OHIO HILLS B= 20KM SITE 22
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 22
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-22-64

60FT TREES 1/4MI IN FRONT, LEFT, AND RIGHT, 30FT TREES 30FT BEHIND.
40FT POWER LINES 30FT IN FRONT, 20FT PHONE LINES 10FT BEHIND. POWER
LINES CROSS ROAD 50FT WEST.

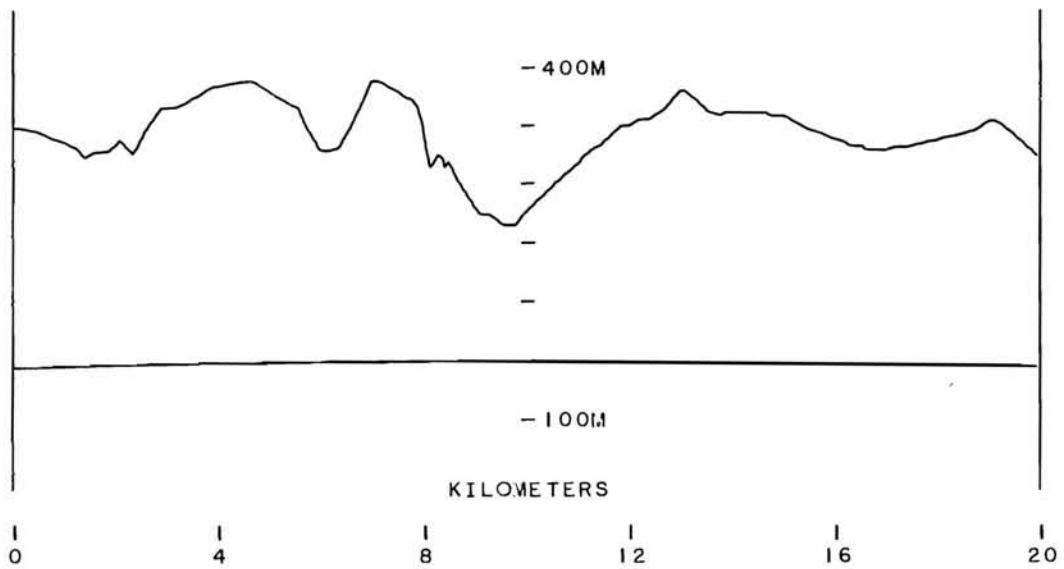
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 18.1 | -114.4 | | -5.0 | | 0.0 | 127.5 | 43.0 |
| (HLLS, 20, 20,V,V,AV,1) | 18.1 | -115.4 | | -5.0 | | 0.0 | 128.5 | 44.0 |
| (HLLS, 20, 20,V,V,AH,1) | 18.1 | -114.7 | | -5.0 | | 0.0 | 127.8 | 43.3 |
| (HLLS, 20, 50,V,V, P,1) | 20.9 | -122.2 | | -2.6 | | 0.8 | 139.7 | 47.2 |
| (HLLS, 20, 50,V,V, P,2) | 20.9 | -122.2 | | -8.0 | | 0.9 | 134.2 | 41.7 |
| (HLLS, 20, 50,V,V,AV,1) | 20.9 | -120.7 | | -2.6 | | 0.8 | 138.2 | 45.7 |
| (HLLS, 20, 50,V,V,AV,2) | 20.9 | -122.2 | | -8.0 | | 0.9 | 134.2 | 41.7 |
| (HLLS, 20, 50,V,V,AH,1) | 20.9 | -121.2 | | -2.6 | | 0.8 | 138.7 | 46.2 |
| (HLLS, 20, 50,V,V,AH,2) | 20.9 | -122.7 | | -8.0 | | 0.9 | 134.7 | 42.2 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -131.9 | 7.6 | -3.2 | 1.4 | 2.7 | 152.2 | 53.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -127.5 | 7.6 | -2.6 | 1.4 | 2.7 | 148.4 | 49.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -125.6 | 7.6 | -2.5 | 1.4 | 2.7 | 146.6 | 48.1 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -126.6 | 7.6 | -3.2 | 1.4 | 2.7 | 146.9 | 48.4 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -122.7 | 7.6 | -2.6 | 1.4 | 2.7 | 143.6 | 45.1 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -121.7 | 7.6 | -2.5 | 1.4 | 2.7 | 142.7 | 44.2 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -128.4 | 7.6 | -3.2 | 1.4 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -125.2 | 9.4 | -5.7 | 1.3 | 2.7 | 144.9 | 46.4 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -120.2 | 9.4 | -2.9 | 1.3 | 2.7 | 142.7 | 44.2 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -120.9 | 9.4 | -3.4 | 1.3 | 2.7 | 142.9 | 44.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -124.9 | 9.4 | -5.7 | 1.3 | 2.7 | 144.6 | 46.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -119.9 | 9.4 | -2.9 | 1.3 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -117.0 | 9.4 | -3.4 | 1.3 | 2.7 | 139.0 | 40.5 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.7 | 9.4 | -5.7 | 1.3 | 2.7 | 143.4 | 44.9 |
| (HLLS, 20,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 23
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 23

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-21-64

60FT TREES 30FT TO FRONT, LEFT, AND RIGHT. 20FT PHONE LINES 15FT IN FRONT, CROSS ROAD 300FT EAST, 40FT POWER LINES 30FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.3 | -127.5 | | -12.9 | | 0.0 | 133.9 | 49.4 |
| (HLLS, 20, 20,V,V,AV,1) | 19.3 | -127.5 | | -12.9 | | 0.0 | 133.9 | 49.4 |
| (HLLS, 20, 20,V,V,AH,1) | 19.3 | -121.4 | | -12.9 | | 0.0 | 127.8 | 43.3 |
| (HLLS, 20, 50,V,V, P,1) | 21.0 | -134.7 | | -8.2 | | 0.8 | 146.7 | 54.2 |
| (HLLS, 20, 50,V,V, P,2) | 21.0 | -130.2 | | -5.5 | | 0.9 | 144.8 | 52.3 |
| (HLLS, 20, 50,V,V,AV,1) | 21.0 | -134.7 | | -8.2 | | 0.8 | 146.7 | 54.2 |
| (HLLS, 20, 50,V,V,AV,2) | 21.0 | -130.2 | | -5.5 | | 0.9 | 144.8 | 52.3 |
| (HLLS, 20, 50,V,V,AH,1) | 21.0 | -136.2 | | -8.2 | | 0.8 | 148.2 | 55.7 |
| (HLLS, 20, 50,V,V,AH,2) | 21.0 | -136.2 | | -5.5 | | 0.9 | 150.8 | 58.3 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -15.5 | 1.4 | 2.7 | 146.9 | 48.4 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -136.2 | 7.6 | -6.4 | 1.4 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -6.6 | 1.4 | 2.7 | 149.8 | 51.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -15.5 | 1.4 | 2.7 | 146.9 | 48.4 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -136.2 | 7.6 | -6.4 | 1.4 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -132.9 | 7.6 | -6.6 | 1.4 | 2.7 | 149.8 | 51.3 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | ** | 7.6 | -15.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -137.9 | 7.6 | -6.4 | 1.4 | 2.7 | 155.0 | 56.5 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -134.0 | 7.6 | -6.6 | 1.4 | 2.7 | 150.9 | 52.4 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -5.7 | 1.3 | 2.7 | 158.6 | 60.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 56.5 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -129.8 | 9.4 | -5.2 | 1.3 | 2.7 | 150.0 | 51.5 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -5.7 | 1.3 | 2.7 | 158.6 | 60.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 56.5 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -129.8 | 9.4 | -5.2 | 1.3 | 2.7 | 150.0 | 51.5 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -136.2 | 9.4 | -5.7 | 1.3 | 2.7 | 155.9 | 57.4 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -129.8 | 9.4 | -4.4 | 1.3 | 2.7 | 150.8 | 52.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -127.2 | 9.4 | -5.2 | 1.3 | 2.7 | 147.4 | 48.9 |

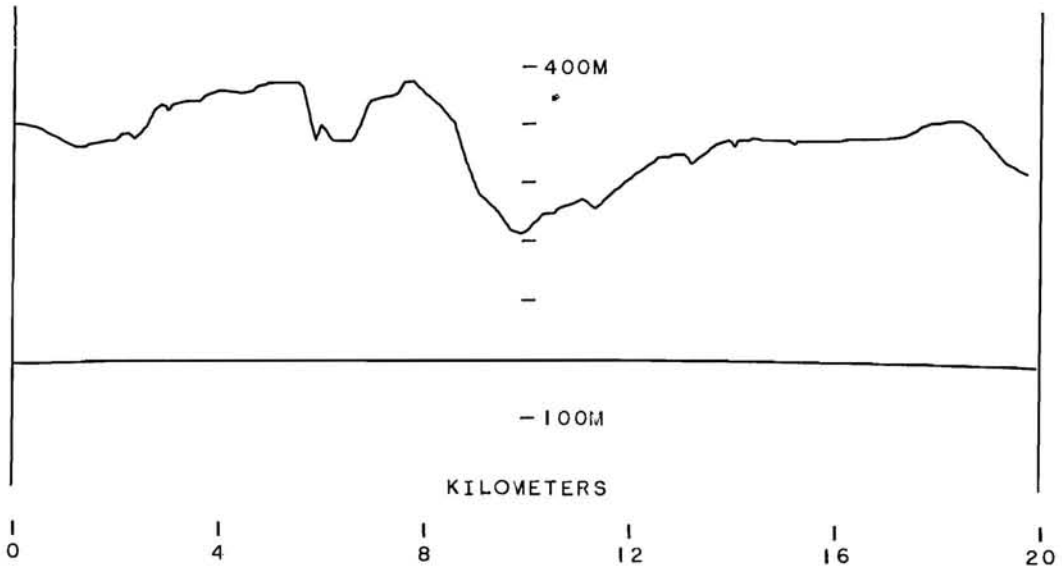
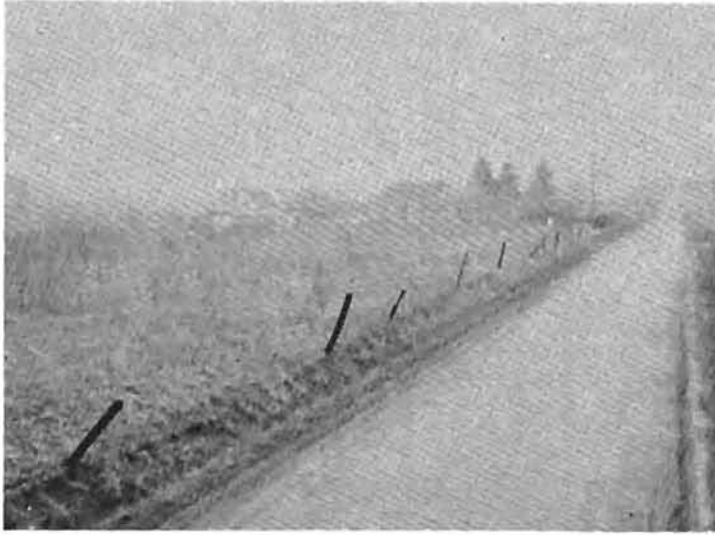
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS $B = 20\text{KM}$ SITE 24

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 24

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-21-64

CLEAR IN FRONT FOR .15MI; THEN FARMHOUSE AND BARN WITH SCATTERED
60FT TREES TO HORIZON. CLEAR TO LEFT .1MI; THEN 60FT TREES BEYOND.
25FT POWER LINES 15FT BEHIND; LINES CROSS ROAD 200FT EAST.

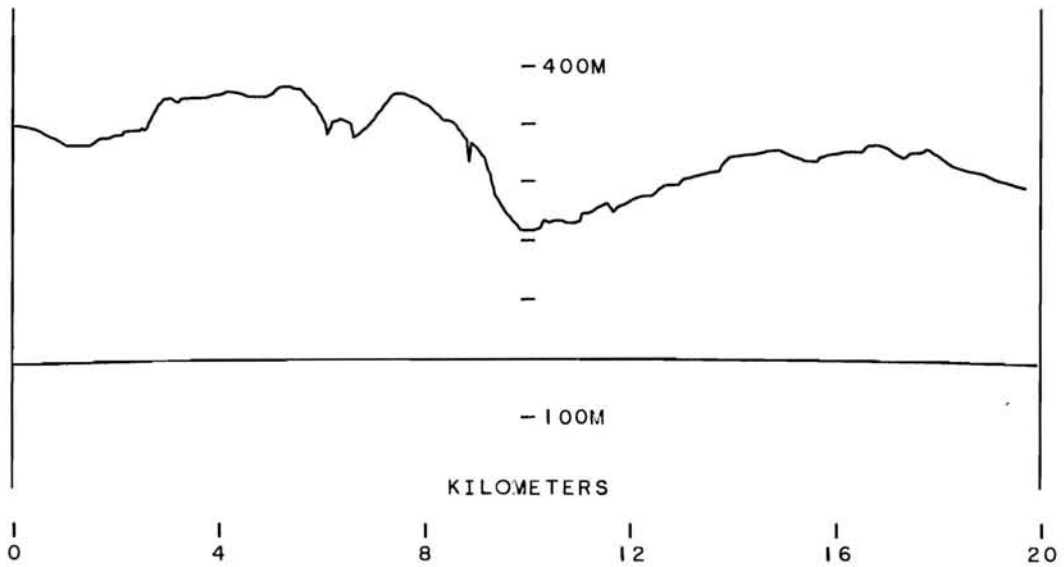
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 21.0 | -116.6 | | -5.3 | | 0.0 | 132.3 | 47.8 |
| (HLLS, 20, 20,V,V,AV,1) | 21.0 | -116.2 | | -5.3 | | 0.0 | 131.9 | 47.4 |
| (HLLS, 20, 20,V,V,AH,1) | 21.0 | -114.4 | | -5.3 | | 0.0 | 130.1 | 45.6 |
| (HLLS, 20, 50,V,V, P,1) | 20.8 | -123.6 | | -5.3 | | 0.8 | 138.3 | 45.8 |
| (HLLS, 20, 50,V,V, P,2) | 20.8 | -124.3 | | -8.0 | | 0.9 | 136.2 | 43.7 |
| (HLLS, 20, 50,V,V,AV,1) | 20.8 | -123.9 | | -5.3 | | 0.8 | 138.6 | 46.1 |
| (HLLS, 20, 50,V,V,AV,2) | 20.8 | -124.9 | | -8.0 | | 0.9 | 136.8 | 44.3 |
| (HLLS, 20, 50,V,V,AH,1) | 20.8 | -123.4 | | -5.3 | | 0.8 | 138.1 | 45.6 |
| (HLLS, 20, 50,V,V,AH,2) | 20.8 | -124.9 | | -8.0 | | 0.9 | 136.8 | 44.3 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -7.7 | 1.4 | 2.7 | 154.7 | 56.2 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -134.0 | 7.6 | -3.6 | 1.4 | 2.7 | 153.9 | 55.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -131.9 | 7.6 | -3.7 | 1.4 | 2.7 | 151.7 | 53.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -7.7 | 1.4 | 2.7 | 149.3 | 50.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -3.6 | 1.4 | 2.7 | 148.9 | 50.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -127.6 | 7.6 | -3.7 | 1.4 | 2.7 | 147.4 | 48.9 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -137.0 | 7.6 | -7.7 | 1.4 | 2.7 | 152.8 | 54.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -134.7 | 7.6 | -3.6 | 1.4 | 2.7 | 154.6 | 56.1 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -132.9 | 7.6 | -3.7 | 1.4 | 2.7 | 152.7 | 54.2 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | ** | 9.4 | -7.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -136.2 | 9.4 | -3.6 | 1.3 | 2.7 | 158.0 | 59.5 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -4.0 | 1.3 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | ** | 9.4 | -7.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -3.6 | 1.3 | 2.7 | 155.8 | 57.3 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -131.0 | 9.4 | -4.0 | 1.3 | 2.7 | 152.4 | 53.9 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -138.9 | 9.4 | -7.0 | 1.3 | 2.7 | 157.3 | 58.8 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -133.5 | 9.4 | -3.6 | 1.3 | 2.7 | 155.3 | 56.8 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -131.0 | 9.4 | -4.0 | 1.3 | 2.7 | 152.4 | 53.9 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 20KM SITE 25
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 25
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-21-64

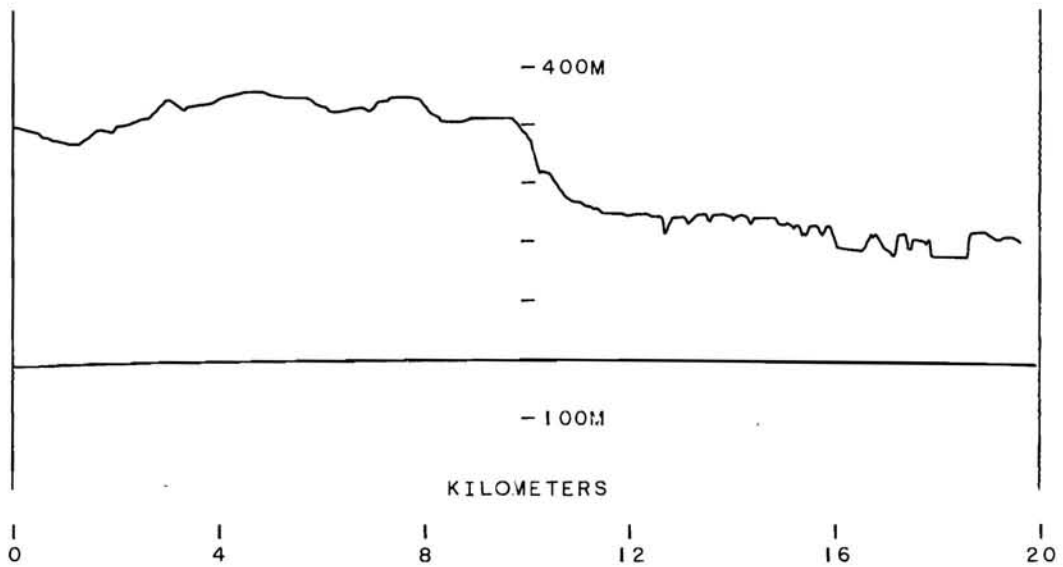
CLEAR FOR .2MI TO FRONT, RIGHT, AND LEFT, THEN SCATTERED 40FT TREES
TO HORIZON, TREES ALSO BEHIND. 30FT POWER LINES, 20FT PHONE LINES
10FT BEHIND, LINES CROSS ROAD 200FT NORTH AND 100FT SOUTH.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 21.6 | -117.4 | | -8.1 | | 0.0 | 130.9 | 46.4 |
| (HLLS, 20, 20,V,V,AV,1) | 21.6 | -118.4 | | -8.1 | | 0.0 | 131.9 | 47.4 |
| (HLLS, 20, 20,V,V,AH,1) | 21.6 | -118.4 | | -8.1 | | 0.0 | 131.9 | 47.4 |
| (HLLS, 20, 50,V,V, P,1) | 20.6 | -129.8 | | -11.6 | | 0.8 | 138.0 | 45.5 |
| (HLLS, 20, 50,V,V, P,2) | 20.6 | -127.6 | | -5.9 | | 0.9 | 141.4 | 48.9 |
| (HLLS, 20, 50,V,V,AV,1) | 20.6 | -128.7 | | -11.6 | | 0.8 | 136.9 | 44.4 |
| (HLLS, 20, 50,V,V,AV,2) | 20.6 | -128.7 | | -5.9 | | 0.9 | 142.5 | 50.0 |
| (HLLS, 20, 50,V,V,AH,1) | 20.6 | -128.7 | | -11.6 | | 0.8 | 136.9 | 44.4 |
| (HLLS, 20, 50,V,V,AH,2) | 20.6 | -128.7 | | -5.9 | | 0.9 | 142.5 | 50.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -133.5 | 7.6 | -13.0 | 1.4 | 2.7 | 144.0 | 45.5 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -129.4 | 7.6 | -2.1 | 1.4 | 2.7 | 150.8 | 52.3 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -126.9 | 7.6 | -2.6 | 1.4 | 2.7 | 147.8 | 49.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -131.9 | 7.6 | -13.0 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -129.8 | 7.6 | -2.1 | 1.4 | 2.7 | 151.2 | 52.7 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -127.6 | 7.6 | -2.6 | 1.4 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -131.9 | 7.6 | -13.0 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -129.8 | 7.6 | -2.1 | 1.4 | 2.7 | 151.2 | 52.7 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -127.6 | 7.6 | -2.6 | 1.4 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -131.9 | 9.4 | -1.4 | 1.3 | 2.7 | 155.9 | 57.4 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -123.2 | 9.4 | -6.6 | 1.3 | 2.7 | 142.0 | 43.5 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -123.2 | 9.4 | -5.7 | 1.3 | 2.7 | 142.9 | 44.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.7 | 9.4 | -1.4 | 1.3 | 2.7 | 147.7 | 49.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -125.4 | 9.4 | -6.6 | 1.3 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -120.1 | 9.4 | -5.7 | 1.3 | 2.7 | 139.8 | 41.3 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.7 | 9.4 | -1.4 | 1.3 | 2.7 | 147.7 | 49.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -125.4 | 9.4 | -6.6 | 1.3 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -120.1 | 9.4 | -5.7 | 1.3 | 2.7 | 139.8 | 41.3 |

OHIO HILLS B= 20KM SITE 27
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 27

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-21-64

HILLY TERRAIN TO HORIZON WITH 60FT TREES SURROUNDING SITE, DENSEST
TO REAR. 40FT POWER LINES 30FT AHEAD, 25FT PHONE LINES ALSO AHEAD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 23.0 | -123.9 | | -9.5 | | 0.0 | 137.4 | 52.9 |
| (HLLS, 20, 20,V,V,AV,1) | 23.0 | -122.2 | | -9.5 | | 0.0 | 135.7 | 51.2 |
| (HLLS, 20, 20,V,V,AH,1) | 23.0 | -121.4 | | -9.5 | | 0.0 | 134.9 | 50.4 |
| (HLLS, 20, 50,V,V, P,1) | 19.4 | ** | | -11.4 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V, P,2) | 19.4 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 20, 50,V,V,AV,1) | 19.4 | -131.4 | | -11.4 | | 0.8 | 138.6 | 46.1 |
| (HLLS, 20, 50,V,V,AV,2) | 19.4 | -129.8 | | -5.2 | | 0.9 | 143.1 | 50.6 |
| (HLLS, 20, 50,V,V,AH,1) | 19.4 | -132.9 | | -11.4 | | 0.8 | 140.1 | 47.6 |
| (HLLS, 20, 50,V,V,AH,2) | 19.4 | -133.5 | | -5.2 | | 0.9 | 146.8 | 54.3 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -6.4 | 1.4 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -137.0 | 7.6 | -1.1 | 1.4 | 2.7 | 159.4 | 60.9 |
| (HLLS, 20,100,V,V, P,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -6.4 | 1.4 | 2.7 | 151.1 | 52.6 |
| (HLLS, 20,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -136.2 | 7.6 | -6.4 | 1.4 | 2.7 | 153.3 | 54.8 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -134.4 | 7.6 | -1.1 | 1.4 | 2.7 | 156.8 | 58.3 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -130.6 | 7.6 | -3.0 | 1.4 | 2.7 | 151.1 | 52.6 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -129.8 | 9.4 | -0.6 | 1.3 | 2.7 | 154.6 | 56.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -6.4 | 1.3 | 2.7 | 148.0 | 49.5 |
| (HLLS, 20,100,H,H, P,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -131.9 | 9.4 | -0.6 | 1.3 | 2.7 | 156.7 | 58.2 |
| (HLLS, 20,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.9 | 9.4 | -0.6 | 1.3 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -123.6 | 9.4 | -6.4 | 1.3 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -130.2 | 9.4 | -4.4 | 1.3 | 2.7 | 151.2 | 52.7 |

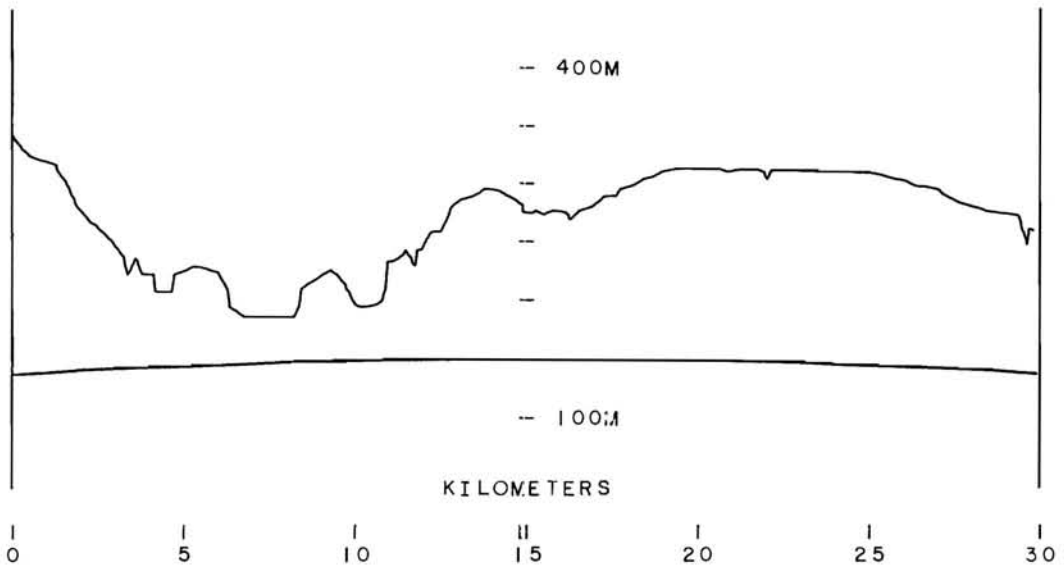
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 1
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 1
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-06-64

40FT LINES OVERHEAD FORWARD, ACROSS ROAD. VALLEY AND CREEK (PART OF PARK) WITH 30FT TREES ON SIDES 200FT AHEAD. HOUSE AND BUILDINGS TO FAR RIGHT AND LEFT 600FT AWAY, BUILDING ALSO 1/2MI AWAY, BEYOND PARK.

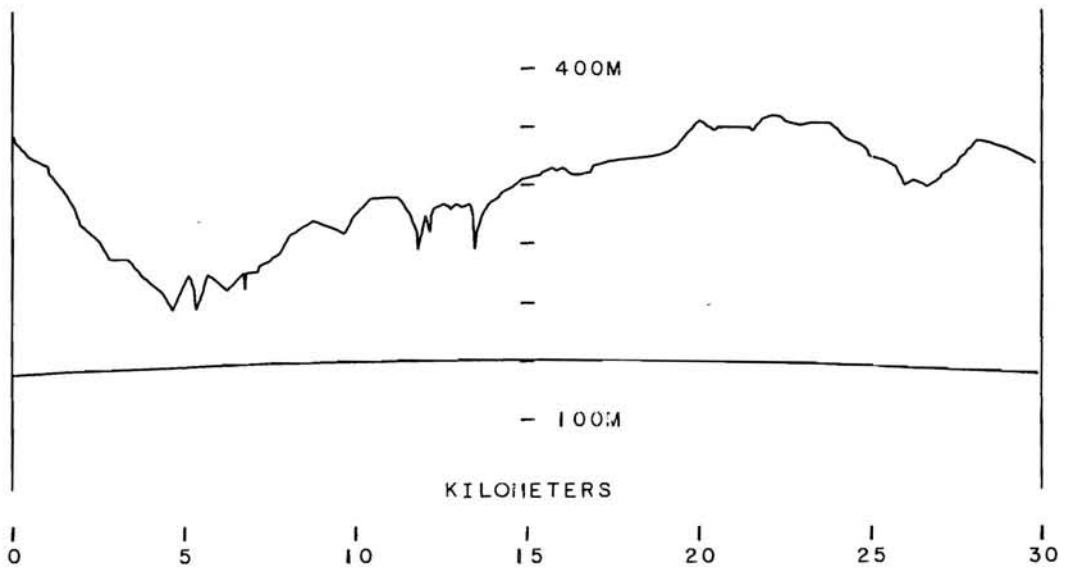
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 15.6 | -135.4 | | -10.3 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V, P,2) | 15.6 | -129.0 | | -6.7 | | 0.9 | 137.0 | 41.0 |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -132.4 | 7.6 | -10.5 | 1.4 | 2.7 | 145.4 | 43.4 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.0 | 7.6 | -2.6 | 1.4 | 2.7 | 151.9 | 49.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -2.5 | 1.4 | 2.7 | 152.0 | 50.0 |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -128.4 | 9.4 | -2.2 | 1.3 | 2.7 | 151.6 | 49.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -132.4 | 9.4 | -6.0 | 1.3 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -127.2 | 9.4 | -5.6 | 1.3 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 2
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 2

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-06-64

45FT LINES OVERHEAD TO FRONT, 10FT STEEL FENCE 20FT AHEAD, WITH CEMENTARY BEYOND, CONTAINING SCATTERED 60FT TREES. BRUSH AND BUILDINGS .2MI AWAY, BEYOND CEMETARY.

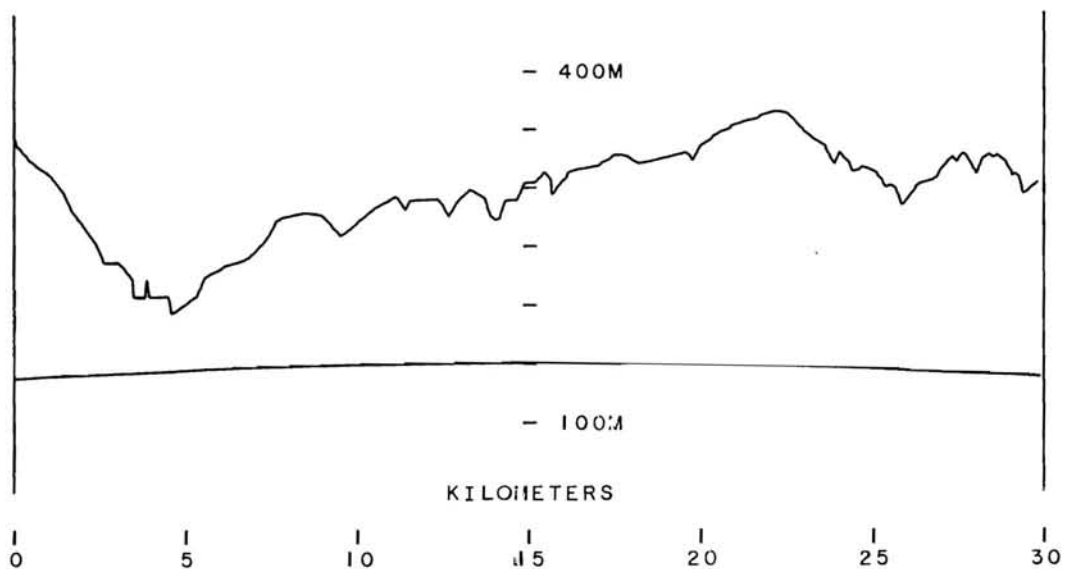
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 24.3 | -117.9 | | -5.2 | | 0.0 | 137.0 | 49.0 |
| (HLLS, 30, 20,V,V,AV,1) | 24.3 | -120.1 | | -5.2 | | 0.0 | 139.2 | 51.2 |
| (HLLS, 30, 20,V,V,AH,1) | 24.3 | -120.3 | | -5.2 | | 0.0 | 139.4 | 51.4 |
| (HLLS, 30, 50,V,V, P,1) | 20.3 | -131.0 | | -7.1 | | 0.8 | 143.4 | 47.4 |
| (HLLS, 30, 50,V,V, P,2) | 20.3 | -130.6 | | -5.2 | | 0.9 | 144.8 | 48.8 |
| (HLLS, 30, 50,V,V,AV,1) | 20.3 | -127.5 | | -7.1 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V,AV,2) | 20.3 | -126.1 | | -5.2 | | 0.9 | 140.3 | 44.3 |
| (HLLS, 30, 50,V,V,AH,1) | 20.3 | -128.1 | | -7.1 | | 0.8 | 140.5 | 44.5 |
| (HLLS, 30, 50,V,V,AH,2) | 20.3 | -126.6 | | -5.2 | | 0.9 | 140.8 | 44.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -4.8 | 1.4 | 2.7 | 155.7 | 53.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -132.9 | 7.6 | -2.5 | 1.4 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -123.4 | 7.6 | -6.2 | 1.4 | 2.7 | 140.7 | 38.7 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -126.1 | 7.6 | -4.8 | 1.4 | 2.7 | 144.8 | 42.8 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -120.9 | 7.6 | -2.5 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -120.1 | 7.6 | -6.2 | 1.4 | 2.7 | 137.4 | 35.4 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -126.4 | 7.6 | -4.8 | 1.4 | 2.7 | 145.1 | 43.1 |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -3.0 | 1.3 | 2.7 | 159.4 | 57.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -129.8 | 9.4 | -6.2 | 1.3 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.3 | 9.4 | -7.0 | 1.3 | 2.7 | 142.7 | 40.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -129.8 | 9.4 | -3.0 | 1.3 | 2.7 | 152.2 | 50.2 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.1 | 9.4 | -6.2 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.0 | 9.4 | -7.0 | 1.3 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -128.4 | 9.4 | -3.0 | 1.3 | 2.7 | 150.8 | 48.8 |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 3
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 3

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-09-64

ROW OF 30FT TREES 20FT AHEAD, CLEAR FIELD WITH SCATTERED 30FT TREES
BEYOND THAT AND 30FT WOODS BEYOND FIELD TO HORIZON, SAME PATTERN
LEFT AND RIGHT.

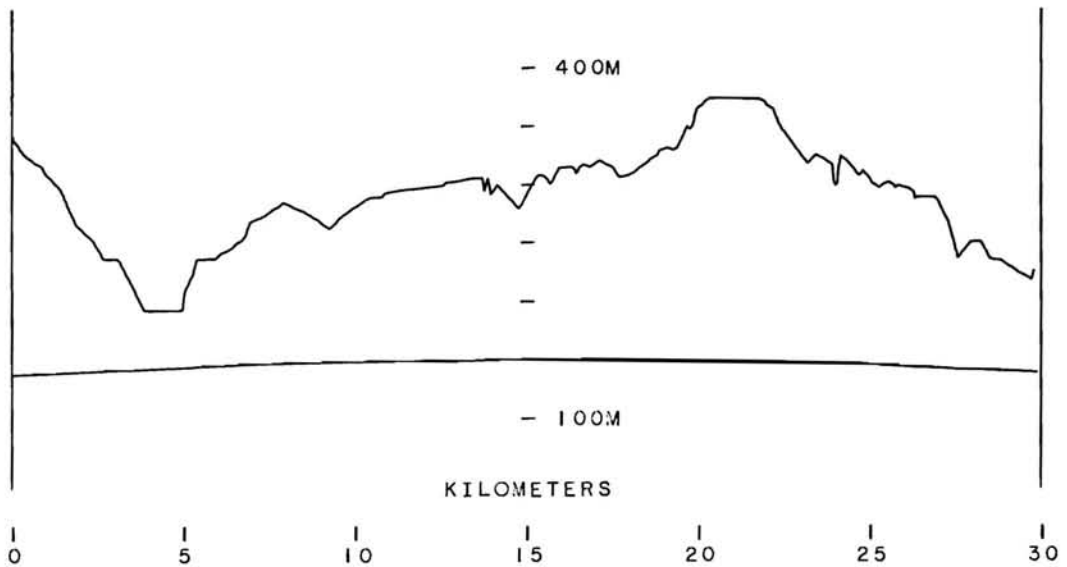
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.9 | -119.5 | | -12.5 | | 0.0 | 130.9 | 42.9 |
| (HLLS, 30, 20,V,V,AV,1) | 23.9 | -120.7 | | -12.5 | | 0.0 | 132.1 | 44.1 |
| (HLLS, 30, 20,V,V,AH,1) | 23.9 | -124.9 | | -12.5 | | 0.0 | 136.3 | 48.3 |
| (HLLS, 30, 50,V,V, P,1) | 21.2 | -138.9 | | -11.7 | | 0.8 | 147.6 | 51.6 |
| (HLLS, 30, 50,V,V, P,2) | 21.2 | -128.1 | | -5.5 | | 0.9 | 142.9 | 46.9 |
| (HLLS, 30, 50,V,V,AV,1) | 21.2 | -132.9 | | -11.7 | | 0.8 | 141.6 | 45.6 |
| (HLLS, 30, 50,V,V,AV,2) | 21.2 | -131.0 | | -5.5 | | 0.9 | 145.8 | 49.8 |
| (HLLS, 30, 50,V,V,AH,1) | 21.2 | -131.0 | | -11.7 | | 0.8 | 139.7 | 43.7 |
| (HLLS, 30, 50,V,V,AH,2) | 21.2 | -129.0 | | -5.5 | | 0.9 | 143.8 | 47.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -8.5 | 1.4 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -124.8 | 7.6 | -5.7 | 1.4 | 2.7 | 142.6 | 40.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -126.4 | 7.6 | -23.0 | 1.4 | 2.7 | 126.9 | 24.9 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -122.7 | 7.6 | -8.5 | 1.4 | 2.7 | 137.7 | 35.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -120.2 | 7.6 | -5.7 | 1.4 | 2.7 | 138.0 | 36.0 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -130.2 | 7.6 | -23.0 | 1.4 | 2.7 | 130.7 | 28.7 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -125.2 | 7.6 | -8.5 | 1.4 | 2.7 | 140.2 | 38.2 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -122.0 | 7.6 | -5.7 | 1.4 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -133.5 | 9.4 | -4.0 | 1.3 | 2.7 | 154.9 | 52.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -133.5 | 9.4 | -4.6 | 1.3 | 2.7 | 154.3 | 52.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -127.5 | 9.4 | -5.4 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.7 | 9.4 | -4.0 | 1.3 | 2.7 | 145.1 | 43.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -124.9 | 9.4 | -4.6 | 1.3 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.0 | 9.4 | -5.4 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -122.2 | 9.4 | -4.0 | 1.3 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -124.8 | 9.4 | -4.6 | 1.3 | 2.7 | 145.6 | 43.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.1 | 9.4 | -5.4 | 1.3 | 2.7 | 143.1 | 41.1 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 4
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 4

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-09-64

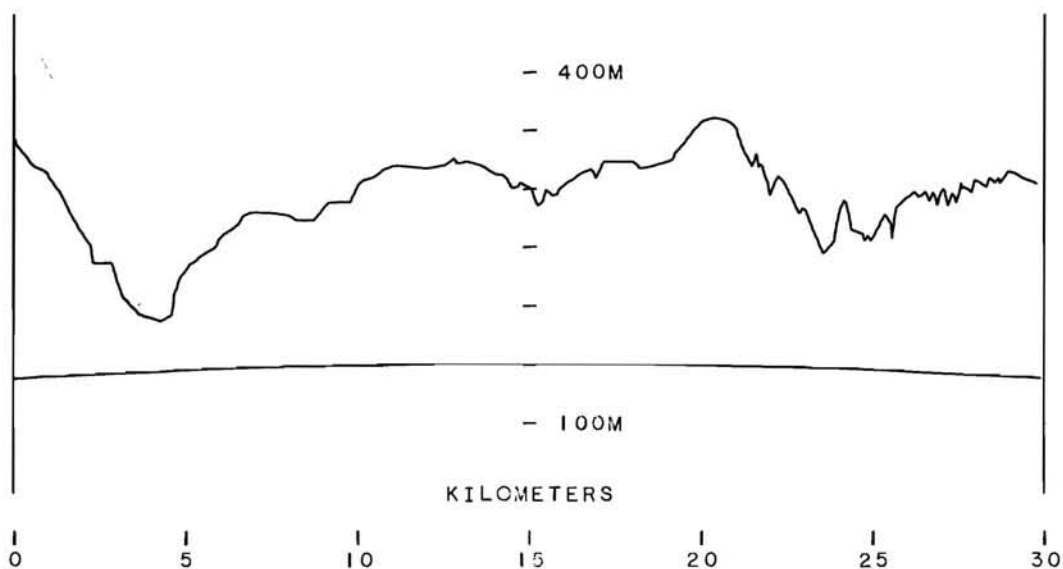
35FT LINES OVERHEAD, SMALL CLEAR SPACE 50FT AHEAD, REST OF FRONT AREA IS 40FT TREES. TREE-COVERED HILL ON LEFT, BRUSH AND RIVER 400FT TO RIGHT, BENDING TO FRONT FOR ABOUT 1MI.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -127.6 | | -12.4 | | 0.0 | 138.7 | 50.7 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -126.6 | | -12.4 | | 0.0 | 137.7 | 49.7 |
| (HLLS, 30, 20,V,V,AH,1) | 23.5 | -126.6 | | -12.4 | | 0.0 | 137.7 | 49.7 |
| (HLLS, 30, 50,V,V, P,1) | 22.0 | -134.0 | | -11.3 | | 0.8 | 143.9 | 47.9 |
| (HLLS, 30, 50,V,V, P,2) | 22.0 | -121.2 | | -5.5 | | 0.9 | 136.8 | 40.8 |
| (HLLS, 30, 50,V,V,AV,1) | 22.0 | -130.6 | | -11.3 | | 0.8 | 140.5 | 44.5 |
| (HLLS, 30, 50,V,V,AV,2) | 22.0 | -120.1 | | -5.5 | | 0.9 | 135.7 | 39.7 |
| (HLLS, 30, 50,V,V,AH,1) | 22.0 | -130.6 | | -11.3 | | 0.8 | 140.5 | 44.5 |
| (HLLS, 30, 50,V,V,AH,2) | 22.0 | -120.1 | | -5.5 | | 0.9 | 135.7 | 39.7 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.9 | 7.6 | -23.5 | 1.4 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -129.4 | 7.6 | -8.4 | 1.4 | 2.7 | 144.5 | 42.5 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -126.4 | 7.6 | -5.7 | 1.4 | 2.7 | 144.2 | 42.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -130.2 | 7.6 | -23.5 | 1.4 | 2.7 | 130.2 | 28.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.3 | 7.6 | -8.4 | 1.4 | 2.7 | 139.4 | 37.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -124.3 | 7.6 | -5.7 | 1.4 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -130.2 | 7.6 | -23.5 | 1.4 | 2.7 | 130.2 | 28.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -124.3 | 7.6 | -8.4 | 1.4 | 2.7 | 139.4 | 37.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -124.3 | 7.6 | -5.7 | 1.4 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -121.4 | 9.4 | -4.4 | 1.3 | 2.7 | 142.4 | 40.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -120.9 | 9.4 | -4.5 | 1.3 | 2.7 | 141.8 | 39.8 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -125.4 | 9.4 | -5.4 | 1.3 | 2.7 | 145.4 | 43.4 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -118.8 | 9.4 | -4.4 | 1.3 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -117.0 | 9.4 | -4.5 | 1.3 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -120.4 | 9.4 | -5.4 | 1.3 | 2.7 | 140.4 | 38.4 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -118.8 | 9.4 | -4.4 | 1.3 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -117.0 | 9.4 | -4.5 | 1.3 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -120.4 | 9.4 | -5.4 | 1.3 | 2.7 | 140.4 | 38.4 |

OHIO HILLS B= 30KM SITE 5
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 5
 CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-09-64

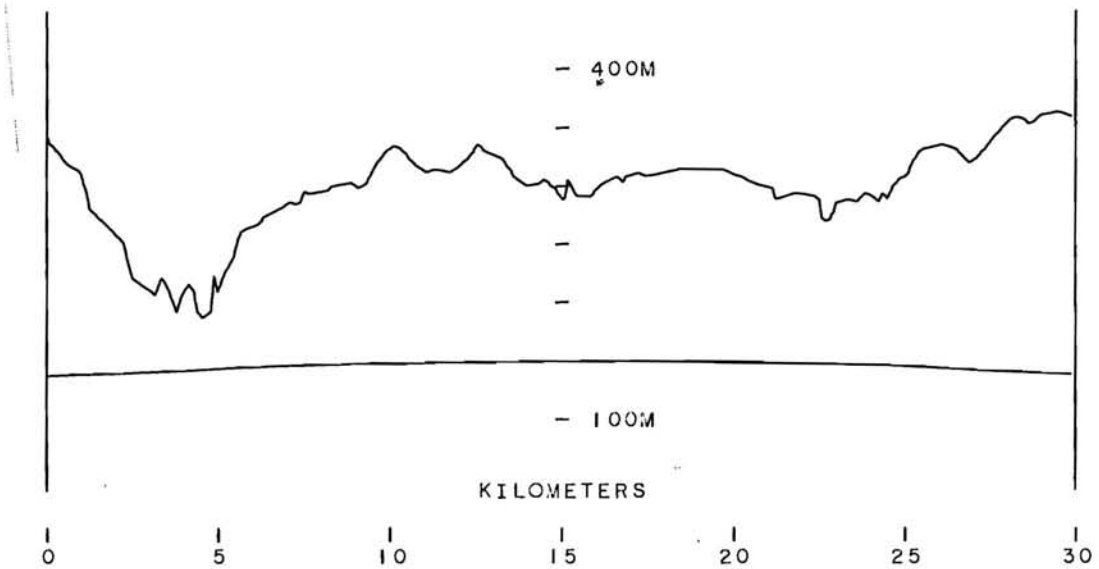
ROW OF 30FT TREES 30FT AHEAD, HOUSE 150FT BEYOND THEM, CLEAR FOR .3MI
 BEYOND HOUSE, THEN SCATTERED TREES TO HORIZON. WOODS BEGIN 500FT TO
 RIGHT, HOUSE 500FT TO LEFT, 15FT LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.4 | -121.0 | | -10.1 | | 0.0 | 133.3 | 45.3 |
| (HLLS, 30, 20,V,V,AV,1) | 22.4 | -120.4 | | -10.1 | | 0.0 | 132.7 | 44.7 |
| (HLLS, 30, 20,V,V,AH,1) | 22.4 | -120.0 | | -10.1 | | 0.0 | 132.3 | 44.3 |
| (HLLS, 30, 50,V,V, P,1) | 22.7 | -126.4 | | -10.5 | 0.8 | | 137.8 | 41.8 |
| (HLLS, 30, 50,V,V, P,2) | 22.7 | -115.3 | | -5.2 | 0.9 | | 131.9 | 35.9 |
| (HLLS, 30, 50,V,V,AV,1) | 22.7 | -125.2 | | -10.5 | 0.8 | | 136.6 | 40.6 |
| (HLLS, 30, 50,V,V,AV,2) | 22.7 | -120.6 | | -5.2 | 0.9 | | 137.2 | 41.2 |
| (HLLS, 30, 50,V,V,AH,1) | 22.7 | -124.8 | | -10.5 | 0.8 | | 136.2 | 40.2 |
| (HLLS, 30, 50,V,V,AH,2) | 22.7 | -115.5 | | -5.2 | 0.9 | | 132.1 | 36.1 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -6.2 | 1.4 | 2.7 | 152.7 | 50.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -130.6 | 7.6 | -1.2 | 1.4 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -123.4 | 7.6 | -3.7 | 1.4 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -123.4 | 7.6 | -6.2 | 1.4 | 2.7 | 140.7 | 38.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -120.1 | 7.6 | -1.2 | 1.4 | 2.7 | 142.4 | 40.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -118.4 | 7.6 | -3.7 | 1.4 | 2.7 | 138.2 | 36.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -127.6 | 7.6 | -6.2 | 1.4 | 2.7 | 144.9 | 42.9 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -123.2 | 7.6 | -1.2 | 1.4 | 2.7 | 145.5 | 43.5 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -118.9 | 7.6 | -3.7 | 1.4 | 2.7 | 138.7 | 36.7 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -130.2 | 9.4 | -1.0 | 1.3 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -130.2 | 9.4 | -6.1 | 1.3 | 2.7 | 149.5 | 47.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -123.9 | 9.4 | -4.4 | 1.3 | 2.7 | 144.9 | 42.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.9 | 9.4 | -1.0 | 1.3 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -124.5 | 9.4 | -6.1 | 1.3 | 2.7 | 143.8 | 41.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -129.8 | 9.4 | -4.4 | 1.3 | 2.7 | 150.8 | 48.8 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -122.8 | 9.4 | -1.0 | 1.3 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -118.6 | 9.4 | -6.1 | 1.3 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -118.2 | 9.4 | -4.4 | 1.3 | 2.7 | 139.2 | 37.2 |

OHIO HILLS B= 30KM SITE 6
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 6

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-09-64

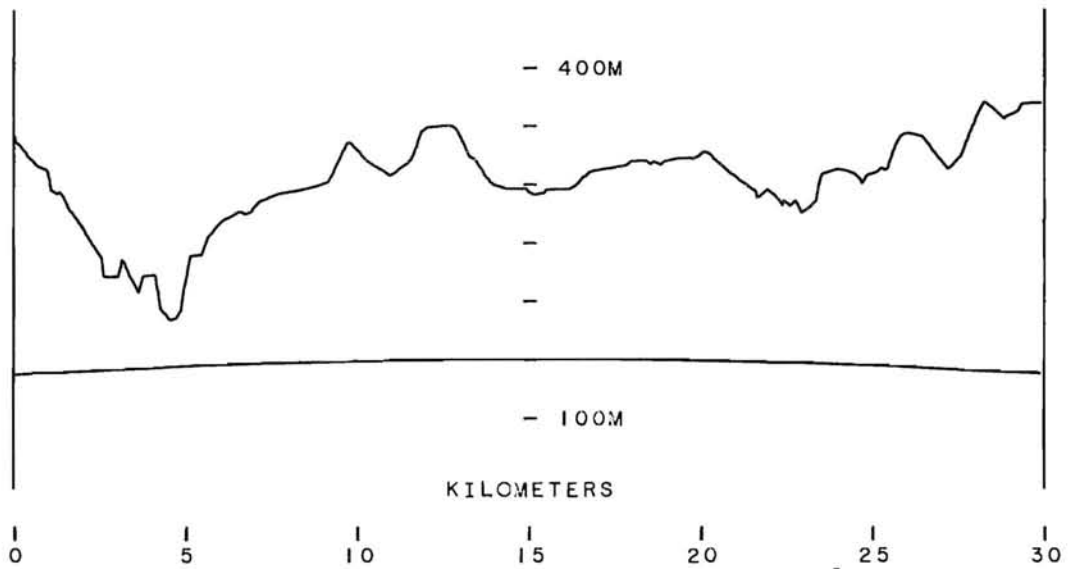
40FT LINES OVERHEAD TO FRONT. CLEAR FIELDS FOR .3MI AHEAD, FOLLOWED BY DENSE WOODS TO .5MI AHEAD. 50 TO 70FT TREES SCATTERED FROM .2MI TO .7MI ON RIGHT, OBSTRUCTIONS ON LEFT SAME AS THOSE IN FRONT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 21.3 | -118.4 | | -12.4 | | 0.0 | 127.3 | 39.3 |
| (HLLS, 30, 20,V,V,AV,1) | 21.3 | -118.4 | | -12.4 | | 0.0 | 127.3 | 39.3 |
| (HLLS, 30, 20,V,V,AM,1) | 21.3 | -118.3 | | -12.4 | | 0.0 | 127.2 | 39.2 |
| (HLLS, 30, 50,V,V, P,1) | 22.9 | -129.4 | | -10.4 | | 0.8 | 141.1 | 45.1 |
| (HLLS, 30, 50,V,V, P,2) | 22.9 | -120.7 | | -5.5 | | 0.9 | 137.2 | 41.2 |
| (HLLS, 30, 50,V,V,AV,1) | 22.9 | -125.4 | | -10.4 | | 0.8 | 137.1 | 41.1 |
| (HLLS, 30, 50,V,V,AV,2) | 22.9 | -115.4 | | -5.5 | | 0.9 | 131.9 | 35.9 |
| (HLLS, 30, 50,V,V,AM,1) | 22.9 | -124.9 | | -10.4 | | 0.8 | 136.6 | 40.6 |
| (HLLS, 30, 50,V,V,AM,2) | 22.9 | -118.8 | | -5.5 | | 0.9 | 135.3 | 39.3 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -125.9 | 7.6 | -23.5 | 1.4 | 2.7 | 125.9 | 23.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -121.3 | 7.6 | -8.0 | 1.4 | 2.7 | 136.8 | 34.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -118.1 | 7.6 | -5.8 | 1.4 | 2.7 | 135.8 | 33.8 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -120.4 | 7.6 | -23.5 | 1.4 | 2.7 | 120.4 | 18.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -116.8 | 7.6 | -8.0 | 1.4 | 2.7 | 132.3 | 30.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -116.2 | 7.6 | -5.8 | 1.4 | 2.7 | 133.9 | 31.9 |
| (HLLS, 30,100,V,V,AM,3) | 20.0 | -125.9 | 7.6 | -23.5 | 1.4 | 2.7 | 125.9 | 23.9 |
| (HLLS, 30,100,V,V,AM,6) | 20.0 | -121.3 | 7.6 | -8.0 | 1.4 | 2.7 | 136.8 | 34.8 |
| (HLLS, 30,100,V,V,AM,9) | 20.0 | -119.0 | 7.6 | -5.8 | 1.4 | 2.7 | 136.7 | 34.7 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -127.2 | 9.4 | -4.8 | 1.3 | 2.7 | 147.8 | 45.8 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -122.7 | 9.4 | -4.4 | 1.3 | 2.7 | 143.7 | 41.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -118.9 | 9.4 | -5.3 | 1.3 | 2.7 | 139.0 | 37.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -126.1 | 9.4 | -4.8 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -117.9 | 9.4 | -4.4 | 1.3 | 2.7 | 138.9 | 36.9 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -117.0 | 9.4 | -5.3 | 1.3 | 2.7 | 137.1 | 35.1 |
| (HLLS, 30,100,H,H,AM,3) | 20.0 | -122.0 | 9.4 | -4.8 | 1.3 | 2.7 | 142.6 | 40.6 |
| (HLLS, 30,100,H,H,AM,6) | 20.0 | -123.9 | 9.4 | -4.4 | 1.3 | 2.7 | 144.9 | 42.9 |
| (HLLS, 30,100,H,H,AM,9) | 20.0 | -119.2 | 9.4 | -5.3 | 1.3 | 2.7 | 139.3 | 37.3 |

OHIO HILLS B= 30KM SITE 7
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 7

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-11-64

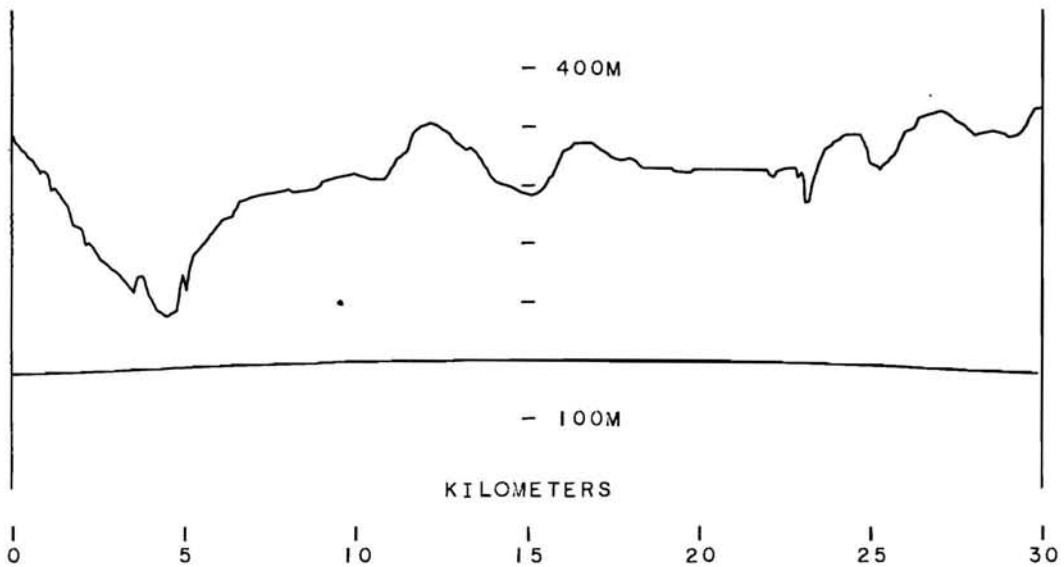
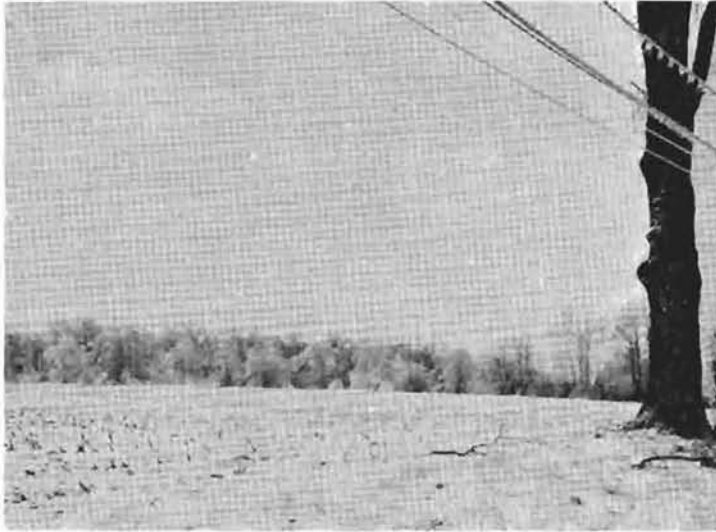
20FT PHONE LINES 15FT AHEAD, HOUSE AND GARAGE 500FT AHEAD, 40FT TREES
600FT AHEAD GOING TO HORIZON. WOODS BEGIN AT 600FT TO LEFT, TREES
AND BUILDINGS 500FT TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 20.8 | -120.2 | | -9.5 | | 0.0 | 131.5 | 43.5 |
| (HLLS, 30, 20,V,V,AV,1) | 20.8 | -122.8 | | -9.5 | | 0.0 | 134.1 | 46.1 |
| (HLLS, 30, 20,V,V,AH,1) | 20.8 | -120.0 | | -9.5 | | 0.0 | 131.3 | 43.3 |
| (HLLS, 30, 50,V,V, P,1) | 22.8 | -127.2 | | -11.4 | | 0.8 | 137.8 | 41.8 |
| (HLLS, 30, 50,V,V, P,2) | 22.8 | -113.0 | | -5.3 | | 0.9 | 129.6 | 33.6 |
| (HLLS, 30, 50,V,V,AV,1) | 22.8 | -131.4 | | -11.4 | | 0.8 | 142.0 | 46.0 |
| (HLLS, 30, 50,V,V,AV,2) | 22.8 | -122.2 | | -5.3 | | 0.9 | 138.8 | 42.8 |
| (HLLS, 30, 50,V,V,AH,1) | 22.8 | -127.5 | | -11.4 | | 0.8 | 138.1 | 42.1 |
| (HLLS, 30, 50,V,V,AH,2) | 22.8 | -111.9 | | -5.3 | | 0.9 | 128.5 | 32.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -124.9 | 7.6 | -6.1 | 1.4 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -122.8 | 7.6 | -1.1 | 1.4 | 2.7 | 145.2 | 43.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -120.7 | 7.6 | -3.0 | 1.4 | 2.7 | 141.2 | 39.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -121.3 | 7.6 | -6.1 | 1.4 | 2.7 | 138.7 | 36.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -119.7 | 7.6 | -1.1 | 1.4 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -117.4 | 7.6 | -3.0 | 1.4 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -127.5 | 7.6 | -6.1 | 1.4 | 2.7 | 144.9 | 42.9 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -119.5 | 7.6 | -1.1 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -117.9 | 7.6 | -3.0 | 1.4 | 2.7 | 138.4 | 36.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -141.5 | 9.4 | -0.6 | 1.3 | 2.7 | 166.3 | 64.3 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -140.1 | 9.4 | -6.4 | 1.3 | 2.7 | 159.1 | 57.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.9 | 9.4 | -4.4 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -0.6 | 1.3 | 2.7 | 160.2 | 58.2 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -130.2 | 9.4 | -6.4 | 1.3 | 2.7 | 149.2 | 47.2 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -126.9 | 9.4 | -4.4 | 1.3 | 2.7 | 147.9 | 45.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -134.0 | 9.4 | -0.6 | 1.3 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -127.5 | 9.4 | -6.4 | 1.3 | 2.7 | 146.5 | 44.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -121.6 | 9.4 | -4.4 | 1.3 | 2.7 | 142.6 | 40.6 |

OHIO HILLS B= 30KM SITE 8
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 8

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-11-64

15FT PHONE LINES OVERHEAD 20FT AHEAD; 80FT TREE 30FT AHEAD; CLEAR BEYOND TREE TO 600FT; THEN DENSE 80FT WOODS TO HORIZON. CLEAR TO LEFT TO HORIZON; 50FT LINES BEHIND.

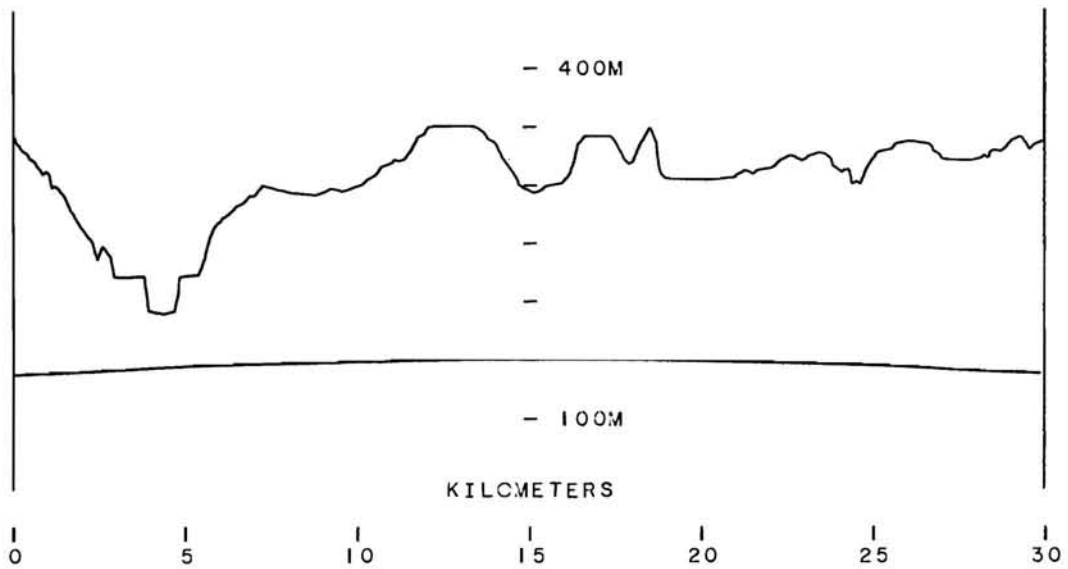
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 20.4 | -123.0 | | -12.7 | | 0.0 | 130.7 | 42.7 |
| (HLLS, 30, 20,V,V,AV,1) | 20.4 | -126.9 | | -12.7 | | 0.0 | 134.6 | 46.6 |
| (HLLS, 30, 20,V,V,AH,1) | 20.4 | -122.8 | | -12.7 | | 0.0 | 130.5 | 42.5 |
| (HLLS, 30, 50,V,V, P,1) | 22.7 | -128.1 | | -9.3 | | 0.8 | 140.7 | 44.7 |
| (HLLS, 30, 50,V,V, P,2) | 22.7 | -120.1 | | -5.5 | | 0.9 | 136.4 | 40.4 |
| (HLLS, 30, 50,V,V,AV,1) | 22.7 | -126.4 | | -9.3 | | 0.8 | 139.0 | 43.0 |
| (HLLS, 30, 50,V,V,AV,2) | 22.7 | -116.8 | | -5.5 | | 0.9 | 133.1 | 37.1 |
| (HLLS, 30, 50,V,V,AH,1) | 22.7 | -127.6 | | -9.3 | | 0.8 | 140.2 | 44.2 |
| (HLLS, 30, 50,V,V,AH,2) | 22.7 | -118.9 | | -5.5 | | 0.9 | 135.2 | 39.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -124.1 | 7.6 | -20.5 | 1.4 | 2.7 | 127.1 | 25.1 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -121.6 | 7.6 | -7.3 | 1.4 | 2.7 | 137.8 | 35.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -120.1 | 7.6 | -6.2 | 1.4 | 2.7 | 137.4 | 35.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -116.2 | 7.6 | -20.5 | 1.4 | 2.7 | 119.2 | 17.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -118.4 | 7.6 | -7.3 | 1.4 | 2.7 | 134.6 | 32.6 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -110.9 | 7.6 | -6.2 | 1.4 | 2.7 | 128.2 | 26.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -120.2 | 7.6 | -20.5 | 1.4 | 2.7 | 123.2 | 21.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -115.4 | 7.6 | -7.3 | 1.4 | 2.7 | 131.6 | 29.6 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -111.9 | 7.6 | -6.2 | 1.4 | 2.7 | 129.2 | 27.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.0 | 9.4 | -5.4 | 1.3 | 2.7 | 151.0 | 49.0 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -121.3 | 9.4 | -4.4 | 1.3 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -118.0 | 9.4 | -5.2 | 1.3 | 2.7 | 138.2 | 36.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.6 | 9.4 | -5.4 | 1.3 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -113.5 | 9.4 | -4.4 | 1.3 | 2.7 | 134.5 | 32.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -111.4 | 9.4 | -5.2 | 1.3 | 2.7 | 131.6 | 29.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -123.2 | 9.4 | -5.4 | 1.3 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -122.8 | 9.4 | -4.4 | 1.3 | 2.7 | 143.8 | 41.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -121.4 | 9.4 | -5.2 | 1.3 | 2.7 | 141.6 | 39.6 |

OHIO HILLS B= 30KM SITE 9

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 9

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-11-64

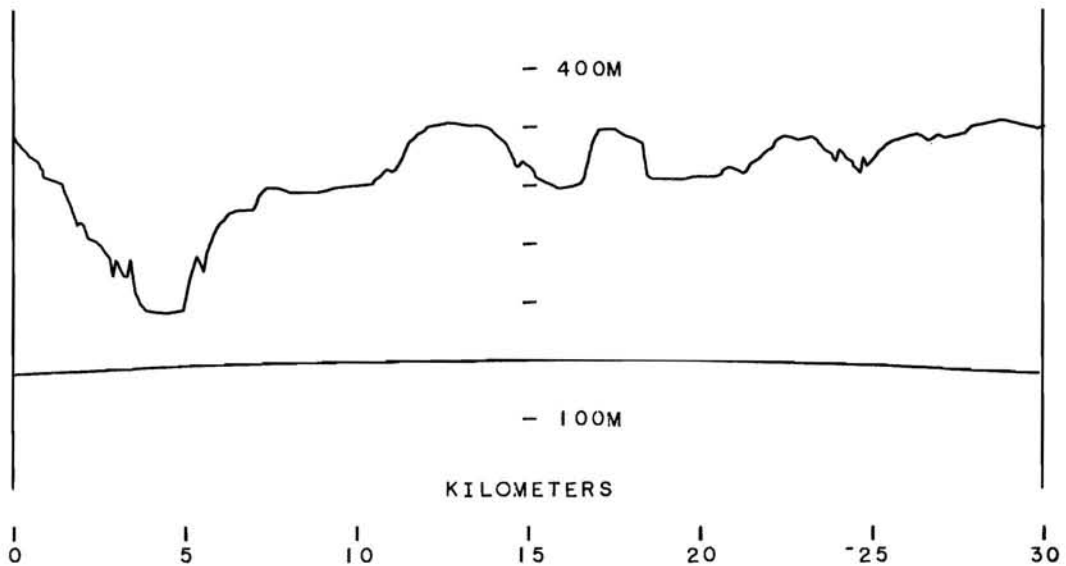
10FT BANK ALONG ROAD 10FT AHEAD. HILLSLOPE WITH 5FT BRUSH IN FRONT
GOING TO 300FT, THEN SCATTERED TREES, FINALLY WOODS TO HORIZON.
SIMILAR BRUSH AND WOODS TO RIGHT AND LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.6 | -121.4 | | -7.2 | | 0.0 | 133.8 | 45.8 |
| (HLLS, 30, 20,V,V,AV,1) | 19.6 | -118.9 | | -7.2 | | 0.0 | 131.3 | 43.3 |
| (HLLS, 30, 20,V,V,AH,1) | 19.6 | -118.9 | | -7.2 | | 0.0 | 131.3 | 43.3 |
| (HLLS, 30, 50,V,V, P,1) | 22.2 | -121.4 | | -10.5 | | 0.8 | 132.3 | 36.3 |
| (HLLS, 30, 50,V,V, P,2) | 22.2 | -118.2 | | -5.2 | | 0.9 | 134.3 | 38.3 |
| (HLLS, 30, 50,V,V,AV,1) | 22.2 | -118.9 | | -10.5 | | 0.8 | 129.8 | 33.8 |
| (HLLS, 30, 50,V,V,AV,2) | 22.2 | -115.4 | | -5.2 | | 0.9 | 131.5 | 35.5 |
| (HLLS, 30, 50,V,V,AH,1) | 22.2 | -118.9 | | -10.5 | | 0.8 | 129.8 | 33.8 |
| (HLLS, 30, 50,V,V,AH,2) | 22.2 | -115.4 | | -5.2 | | 0.9 | 131.5 | 35.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -120.1 | 7.6 | -5.7 | 1.4 | 2.7 | 137.9 | 35.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -114.0 | 7.6 | -3.0 | 1.4 | 2.7 | 134.5 | 32.5 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -111.0 | 7.6 | -6.5 | 1.4 | 2.7 | 128.0 | 26.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -114.7 | 7.6 | -5.7 | 1.4 | 2.7 | 132.5 | 30.5 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -110.6 | 7.6 | -3.0 | 1.4 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -107.2 | 7.6 | -6.5 | 1.4 | 2.7 | 124.2 | 22.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -114.7 | 7.6 | -5.7 | 1.4 | 2.7 | 132.5 | 30.5 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -110.6 | 7.6 | -3.0 | 1.4 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -107.2 | 7.6 | -6.5 | 1.4 | 2.7 | 124.2 | 22.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -123.9 | 9.4 | -0.1 | 1.3 | 2.7 | 149.2 | 47.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -113.4 | 9.4 | -1.4 | 1.3 | 2.7 | 137.4 | 35.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -110.2 | 9.4 | -1.6 | 1.3 | 2.7 | 134.0 | 32.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -121.4 | 9.4 | -0.1 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -107.5 | 9.4 | -1.4 | 1.3 | 2.7 | 131.5 | 29.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -106.4 | 9.4 | -1.6 | 1.3 | 2.7 | 130.2 | 28.2 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -121.4 | 9.4 | -0.1 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -107.5 | 9.4 | -1.4 | 1.3 | 2.7 | 131.5 | 29.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -106.4 | 9.4 | -1.6 | 1.3 | 2.7 | 130.2 | 28.2 |

OHIO HILLS B= 30KM SITE 10
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 10

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-11-64

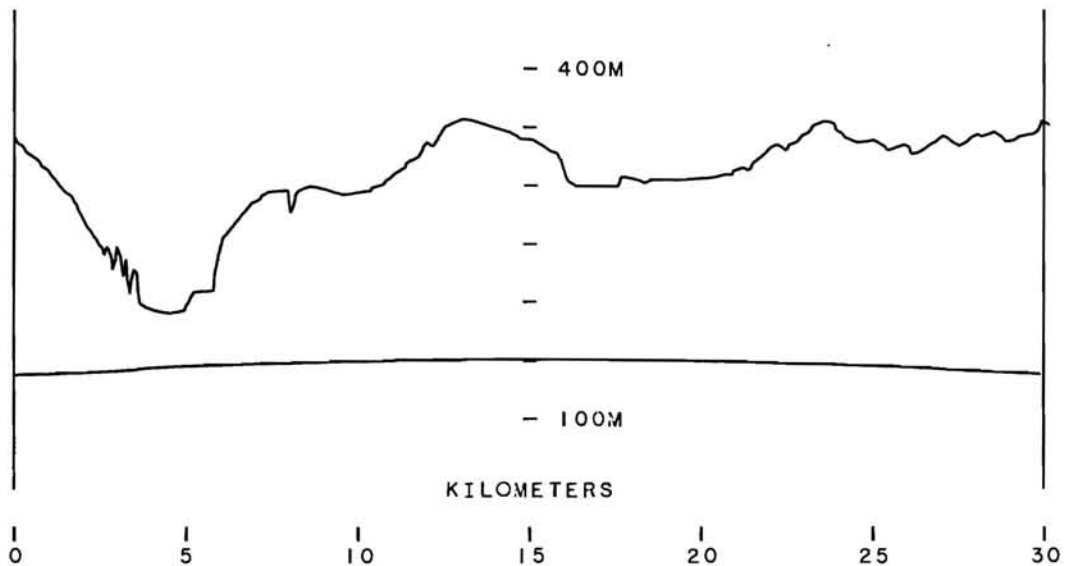
DENSE 12FT BRUSH ALONG ROAD AHEAD 10FT TO 100FT, THEN FIELD WITH
SCATTERED BRUSH. DENSE WOODS BEGIN AT .1MI, GO TO HORIZON. ROAD TO
RIGHT, GOING FOR .1MI, LEFT SAME AS FRONT, 50FT LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.2 | -122.2 | | -13.0 | | 0.0 | 128.4 | 40.4 |
| (HLLS, 30, 20,V,V,AV,1) | 19.2 | -122.2 | | -13.0 | | 0.0 | 128.4 | 40.4 |
| (HLLS, 30, 20,V,V,AH,1) | 19.2 | -125.2 | | -13.0 | | 0.0 | 131.4 | 43.4 |
| (HLLS, 30, 50,V,V, P,1) | 21.6 | -127.5 | | -7.7 | | 0.8 | 140.6 | 44.6 |
| (HLLS, 30, 50,V,V, P,2) | 21.6 | -118.9 | | -5.5 | | 0.9 | 134.1 | 38.1 |
| (HLLS, 30, 50,V,V,AV,1) | 21.6 | -127.5 | | -7.7 | | 0.8 | 140.6 | 44.6 |
| (HLLS, 30, 50,V,V,AV,2) | 21.6 | -118.9 | | -5.5 | | 0.9 | 134.1 | 38.1 |
| (HLLS, 30, 50,V,V,AH,1) | 21.6 | -128.1 | | -7.7 | | 0.8 | 141.2 | 45.2 |
| (HLLS, 30, 50,V,V,AH,2) | 21.6 | -120.0 | | -5.5 | | 0.9 | 135.2 | 39.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -117.9 | 7.6 | -13.2 | 1.4 | 2.7 | 128.2 | 26.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -114.0 | 7.6 | -5.8 | 1.4 | 2.7 | 131.7 | 29.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -111.4 | 7.6 | -7.0 | 1.4 | 2.7 | 127.9 | 25.9 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -117.9 | 7.6 | -13.2 | 1.4 | 2.7 | 128.2 | 26.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -114.0 | 7.6 | -5.8 | 1.4 | 2.7 | 131.7 | 29.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -111.4 | 7.6 | -7.0 | 1.4 | 2.7 | 127.9 | 25.9 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -120.1 | 7.6 | -13.2 | 1.4 | 2.7 | 130.4 | 28.4 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -115.4 | 7.6 | -5.8 | 1.4 | 2.7 | 133.1 | 31.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -112.9 | 7.6 | -7.0 | 1.4 | 2.7 | 129.4 | 27.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -121.4 | 9.4 | -5.7 | 1.3 | 2.7 | 141.1 | 39.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -116.9 | 9.4 | -4.5 | 1.3 | 2.7 | 137.8 | 35.8 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -106.1 | 9.4 | -5.2 | 1.3 | 2.7 | 126.3 | 24.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -121.4 | 9.4 | -5.7 | 1.3 | 2.7 | 141.1 | 39.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -116.9 | 9.4 | -4.5 | 1.3 | 2.7 | 137.8 | 35.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -106.1 | 9.4 | -5.2 | 1.3 | 2.7 | 126.3 | 24.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -115.3 | 9.4 | -5.7 | 1.3 | 2.7 | 135.0 | 33.0 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -110.9 | 9.4 | -4.5 | 1.3 | 2.7 | 131.8 | 29.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -108.1 | 9.4 | -5.2 | 1.3 | 2.7 | 128.3 | 26.3 |

OHIO HILLS B= 30KM SITE 11
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 11

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-11-64

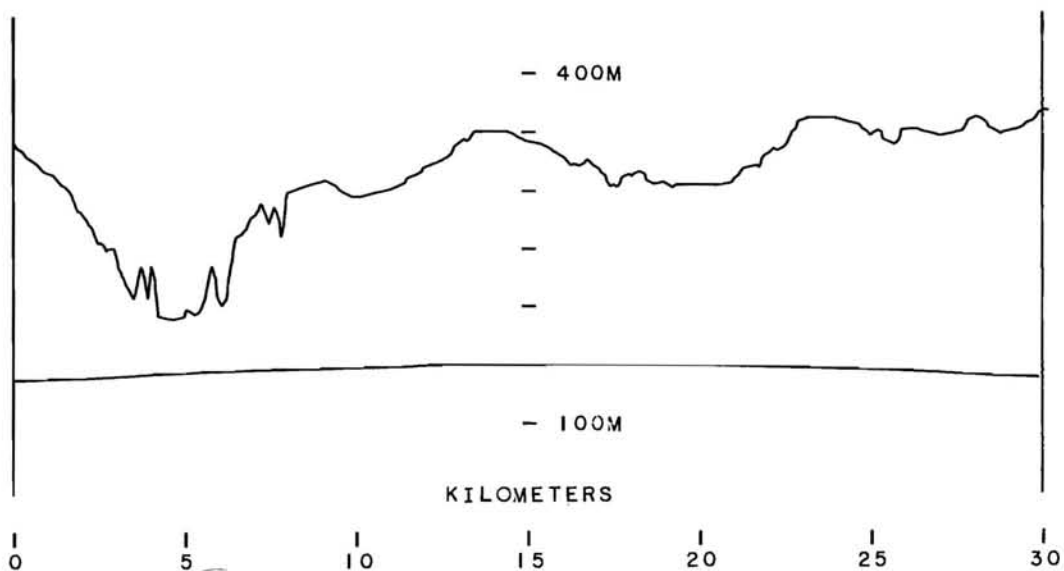
ROAD WITH 20 TO 50FT WIRES ON EACH SIDE IN FRONT, SCATTERED 35FT
TREES ON LEFT SIDE OF ROAD, CULTIVATED LAND AND SCATTERED TREES TO
RIGHT. TERRAIN DROPS IN FRONT, SCATTERED BRUSH AND TREES TO HORIZON.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.0 | -117.9 | | -5.4 | | 0.0 | 131.5 | 43.5 |
| (HLLS, 30, 20,V,V,AV,1) | 19.0 | -116.9 | | -5.4 | | 0.0 | 130.5 | 42.5 |
| (HLLS, 30, 20,V,V,AH,1) | 19.0 | -116.9 | | -5.4 | | 0.0 | 130.5 | 42.5 |
| (HLLS, 30, 50,V,V, P,1) | 21.0 | -121.4 | | -6.3 | | 0.8 | 135.3 | 39.3 |
| (HLLS, 30, 50,V,V, P,2) | 21.0 | -114.7 | | -6.3 | | 0.9 | 128.5 | 32.5 |
| (HLLS, 30, 50,V,V,AV,1) | 21.0 | -116.2 | | -6.3 | | 0.8 | 130.1 | 34.1 |
| (HLLS, 30, 50,V,V,AV,2) | 21.0 | -114.7 | | -6.3 | | 0.9 | 128.5 | 32.5 |
| (HLLS, 30, 50,V,V,AH,1) | 21.0 | -116.2 | | -6.3 | | 0.8 | 130.1 | 34.1 |
| (HLLS, 30, 50,V,V,AH,2) | 21.0 | -114.7 | | -6.3 | | 0.9 | 128.5 | 32.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -112.9 | 7.6 | -8.7 | 1.4 | 2.7 | 127.7 | 25.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -109.4 | 7.6 | -4.2 | 1.4 | 2.7 | 128.7 | 26.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -108.7 | 7.6 | -5.4 | 1.4 | 2.7 | 126.8 | 24.8 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -112.9 | 7.6 | -8.7 | 1.4 | 2.7 | 127.7 | 25.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -109.0 | 7.6 | -4.2 | 1.4 | 2.7 | 128.3 | 26.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -106.1 | 7.6 | -5.4 | 1.4 | 2.7 | 124.2 | 22.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -112.9 | 7.6 | -8.7 | 1.4 | 2.7 | 127.7 | 25.7 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -109.0 | 7.6 | -4.2 | 1.4 | 2.7 | 128.3 | 26.3 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -106.1 | 7.6 | -5.4 | 1.4 | 2.7 | 124.2 | 22.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -120.1 | 9.4 | -9.3 | 1.3 | 2.7 | 136.2 | 34.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -112.4 | 9.4 | -6.3 | 1.3 | 2.7 | 131.5 | 29.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -110.6 | 9.4 | -6.1 | 1.3 | 2.7 | 129.9 | 27.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -117.0 | 9.4 | -9.3 | 1.3 | 2.7 | 133.1 | 31.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -110.2 | 9.4 | -6.3 | 1.3 | 2.7 | 129.3 | 27.3 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -107.5 | 9.4 | -6.1 | 1.3 | 2.7 | 126.8 | 24.8 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -117.0 | 9.4 | -9.3 | 1.3 | 2.7 | 133.1 | 31.1 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -110.2 | 9.4 | -6.3 | 1.3 | 2.7 | 129.3 | 27.3 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -107.5 | 9.4 | -6.1 | 1.3 | 2.7 | 126.8 | 24.8 |

OHIO HILLS B= 30KM SITE 12
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 12

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

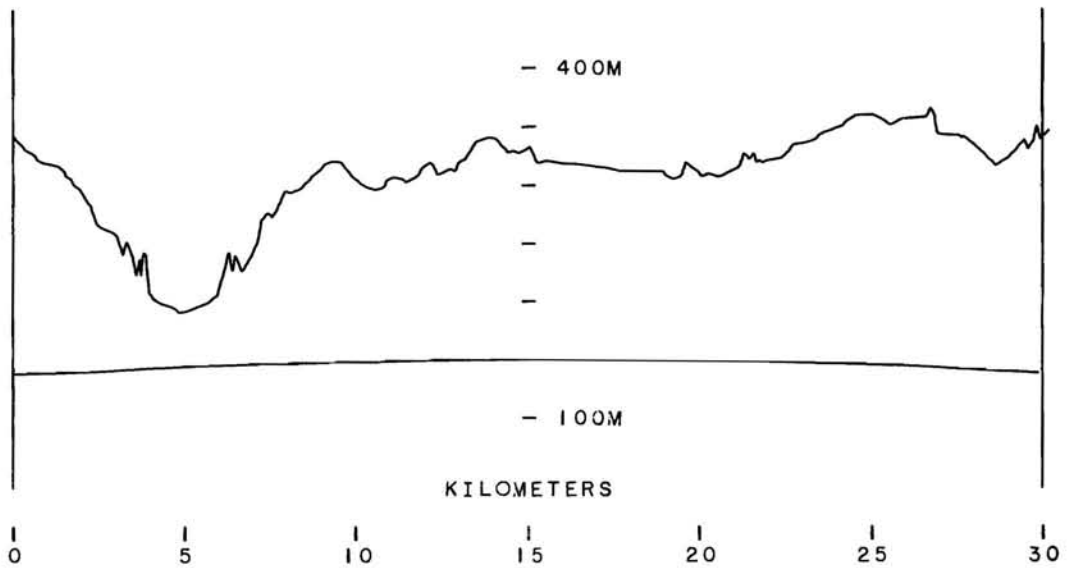
20FT OVERHEAD LINES 30FT AHEAD, FOLLOWING ROAD. LINES ALSO CROSS
FRONT AT 200FT. CLEAR FIELD FOR .7MI AHEAD, THEN 40 TO 60FT WOODS.
SCATTERED BUILDINGS AT .7MI FRONT, LEFT, AND RIGHT, ROAD TO RIGHT AND
CLEAR TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.0 | -121.2 | | -13.0 | | 0.0 | 127.2 | 39.2 |
| (HLLS, 30, 20,V,V,AV,1) | 19.0 | -118.9 | | -13.0 | | 0.0 | 124.9 | 36.9 |
| (HLLS, 30, 20,V,V,AH,1) | 19.0 | -130.6 | | -13.0 | | 0.0 | 136.6 | 48.6 |
| (HLLS, 30, 50,V,V, P,1) | 20.1 | -118.4 | | -7.5 | | 0.8 | 130.2 | 34.2 |
| (HLLS, 30, 50,V,V, P,2) | 20.1 | -114.7 | | -5.5 | | 0.9 | 128.4 | 32.4 |
| (HLLS, 30, 50,V,V,AV,1) | 20.1 | -124.5 | | -7.5 | | 0.8 | 136.3 | 40.3 |
| (HLLS, 30, 50,V,V,AV,2) | 20.1 | -111.9 | | -5.5 | | 0.9 | 125.6 | 29.6 |
| (HLLS, 30, 50,V,V,AH,1) | 20.1 | -121.3 | | -7.5 | | 0.8 | 133.1 | 37.1 |
| (HLLS, 30, 50,V,V,AH,2) | 20.1 | -117.9 | | -5.5 | | 0.9 | 131.6 | 35.6 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -121.7 | 7.6 | -10.6 | 1.4 | 2.7 | 134.6 | 32.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -116.6 | 7.6 | -5.2 | 1.4 | 2.7 | 134.9 | 32.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -109.4 | 7.6 | -7.2 | 1.4 | 2.7 | 125.7 | 23.7 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -111.9 | 7.6 | -10.6 | 1.4 | 2.7 | 124.8 | 22.8 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -109.8 | 7.6 | -5.2 | 1.4 | 2.7 | 128.1 | 26.1 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -106.1 | 7.6 | -7.2 | 1.4 | 2.7 | 122.4 | 20.4 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -114.1 | 7.6 | -10.6 | 1.4 | 2.7 | 127.0 | 25.0 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -106.9 | 7.6 | -5.2 | 1.4 | 2.7 | 125.2 | 23.2 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -106.6 | 7.6 | -7.2 | 1.4 | 2.7 | 122.9 | 20.9 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -122.8 | 9.4 | -5.6 | 1.3 | 2.7 | 142.6 | 40.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -112.9 | 9.4 | -4.6 | 1.3 | 2.7 | 133.7 | 31.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -109.4 | 9.4 | -5.2 | 1.3 | 2.7 | 129.6 | 27.6 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -117.9 | 9.4 | -5.6 | 1.3 | 2.7 | 137.7 | 35.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -110.2 | 9.4 | -4.6 | 1.3 | 2.7 | 131.0 | 29.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -104.8 | 9.4 | -5.2 | 1.3 | 2.7 | 125.0 | 23.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -107.5 | 9.4 | -5.6 | 1.3 | 2.7 | 127.3 | 25.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -108.7 | 9.4 | -4.6 | 1.3 | 2.7 | 129.5 | 27.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -105.6 | 9.4 | -5.2 | 1.3 | 2.7 | 125.8 | 23.8 |

OHIO HILLS B= 30KM SITE 13
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 13

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

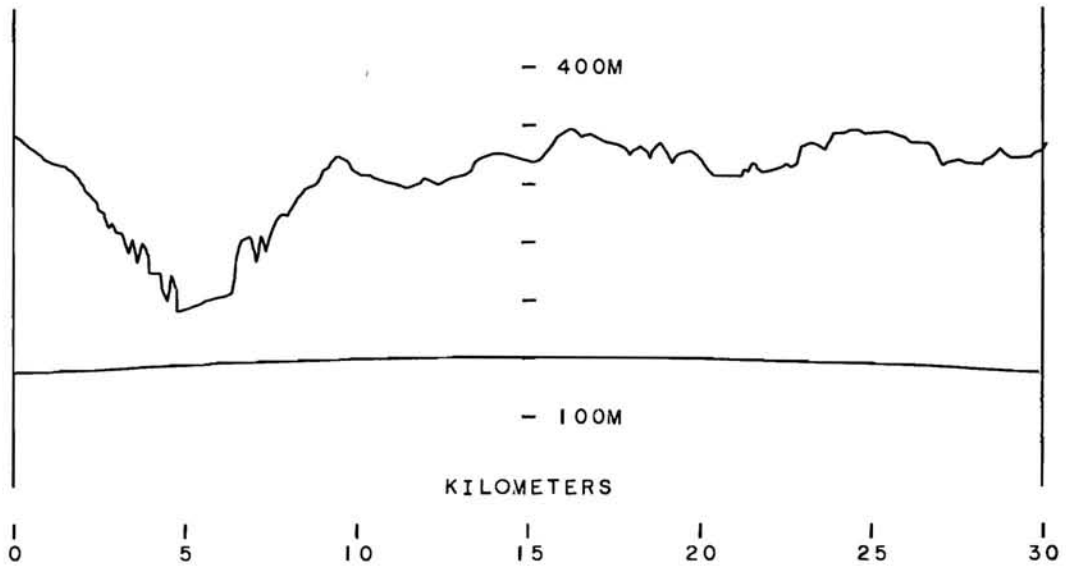
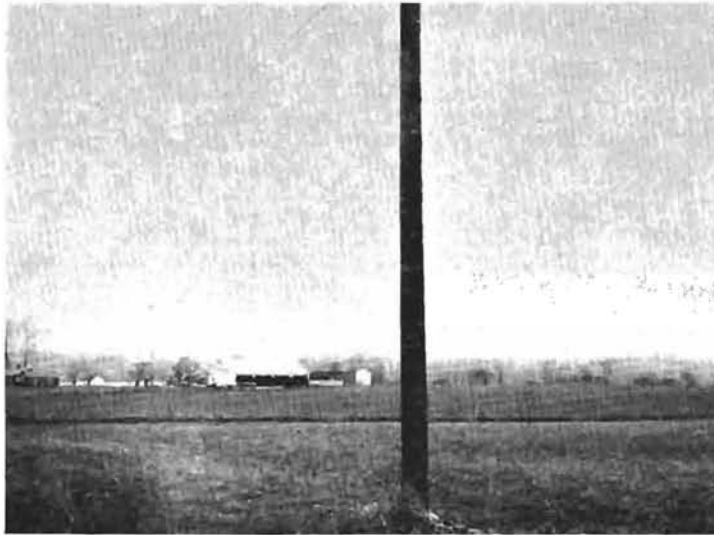
15FT HILL IN FRONT, CLEAR BEYOND TO 600FT, THEN SCATTERED TREES TO HORIZON. TERRAIN SLOPES DOWN BEYOND BANK IN FRONT. TURNPIKE TO RIGHT, OBSTRUCTIONS TO LEFT SAME AS AHEAD. 15FT BANK BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.5 | -120.1 | | -13.0 | | 0.0 | 126.6 | 38.6 |
| (HLLS, 30, 20,V,V,AV,1) | 19.5 | -112.4 | | -13.0 | | 0.0 | 118.9 | 30.9 |
| (HLLS, 30, 20,V,V,AH,1) | 19.5 | -112.4 | | -13.0 | | 0.0 | 118.9 | 30.9 |
| (HLLS, 30, 50,V,V, P,1) | 18.6 | -127.2 | | -16.0 | | 0.8 | 129.0 | 33.0 |
| (HLLS, 30, 50,V,V, P,2) | 18.6 | -118.1 | | -5.3 | | 0.9 | 130.5 | 34.5 |
| (HLLS, 30, 50,V,V,AV,1) | 18.6 | -123.7 | | -16.0 | | 0.8 | 125.5 | 29.5 |
| (HLLS, 30, 50,V,V,AV,2) | 18.6 | -115.4 | | -5.3 | | 0.9 | 127.8 | 31.8 |
| (HLLS, 30, 50,V,V,AH,1) | 18.6 | -123.7 | | -16.0 | | 0.8 | 125.5 | 29.5 |
| (HLLS, 30, 50,V,V,AH,2) | 18.6 | -115.4 | | -5.3 | | 0.9 | 127.8 | 31.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -122.5 | 7.6 | -16.2 | 1.4 | 2.7 | 129.8 | 27.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -115.3 | 7.6 | -8.4 | 1.4 | 2.7 | 130.4 | 28.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -111.9 | 7.6 | -6.1 | 1.4 | 2.7 | 129.3 | 27.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -112.9 | 7.6 | -16.2 | 1.4 | 2.7 | 120.2 | 18.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -110.2 | 7.6 | -8.4 | 1.4 | 2.7 | 125.3 | 23.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -109.4 | 7.6 | -6.1 | 1.4 | 2.7 | 126.8 | 24.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -112.9 | 7.6 | -16.2 | 1.4 | 2.7 | 120.2 | 18.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -110.2 | 7.6 | -8.4 | 1.4 | 2.7 | 125.3 | 23.3 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -109.4 | 7.6 | -6.1 | 1.4 | 2.7 | 126.8 | 24.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -130.6 | 9.4 | -1.5 | 1.3 | 2.7 | 154.5 | 52.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -118.9 | 9.4 | -5.7 | 1.3 | 2.7 | 138.6 | 36.6 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -111.9 | 9.4 | -6.2 | 1.3 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -113.8 | 9.4 | -1.5 | 1.3 | 2.7 | 137.7 | 35.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -113.8 | 9.4 | -5.7 | 1.3 | 2.7 | 133.5 | 31.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -108.4 | 9.4 | -6.2 | 1.3 | 2.7 | 127.6 | 25.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -113.8 | 9.4 | -1.5 | 1.3 | 2.7 | 137.7 | 35.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -113.8 | 9.4 | -5.7 | 1.3 | 2.7 | 133.5 | 31.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -108.4 | 9.4 | -6.2 | 1.3 | 2.7 | 127.6 | 25.6 |

OHIO HILLS B= 30KM SITE 14
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 14

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

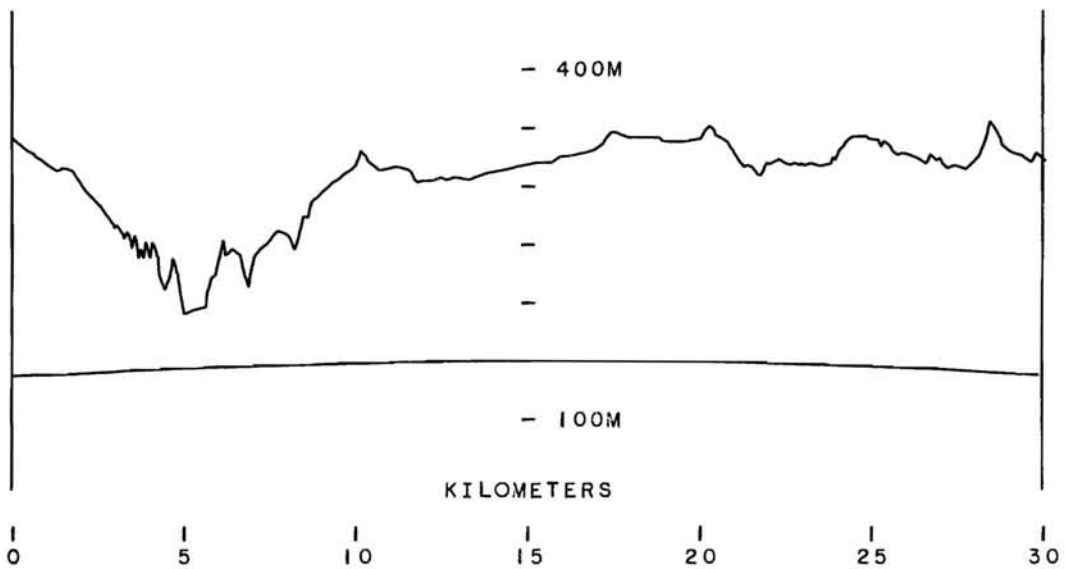
30FT OVERHEAD LINES 20FT AHEAD, CLEAR FIELD FOR .2MI AHEAD THEN BARN-
HOUSE AND SHED, THEN 40 TO 60FT WOODS .25MI AHEAD GOING TO HORIZON.
ROAD TO LEFT, CLEAR FIELD TO RIGHT WITH WOODS BEGINNING AT .25MI.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.2 | -117.9 | | -5.4 | | 0.0 | 131.7 | 43.7 |
| (HLLS, 30, 20,V,V,AV,1) | 19.2 | -118.8 | | -5.4 | | 0.0 | 132.6 | 44.6 |
| (HLLS, 30, 20,V,V,AH,1) | 19.2 | -118.9 | | -5.4 | | 0.0 | 132.7 | 44.7 |
| (HLLS, 30, 50,V,V, P,1) | 18.6 | -116.2 | | -6.9 | | 0.8 | 127.1 | 31.1 |
| (HLLS, 30, 50,V,V, P,2) | 18.6 | -119.5 | | -5.6 | | 0.9 | 131.6 | 35.6 |
| (HLLS, 30, 50,V,V,AV,1) | 18.6 | -114.1 | | -6.9 | | 0.8 | 125.0 | 29.0 |
| (HLLS, 30, 50,V,V,AV,2) | 18.6 | -117.0 | | -5.6 | | 0.9 | 129.1 | 33.1 |
| (HLLS, 30, 50,V,V,AH,1) | 18.6 | -115.2 | | -6.9 | | 0.8 | 126.1 | 30.1 |
| (HLLS, 30, 50,V,V,AH,2) | 18.6 | -118.8 | | -5.6 | | 0.9 | 130.9 | 34.9 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -122.8 | 7.6 | -6.1 | 1.4 | 2.7 | 140.2 | 38.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -117.9 | 7.6 | -3.4 | 1.4 | 2.7 | 138.0 | 36.0 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -113.5 | 7.6 | -5.9 | 1.4 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -116.3 | 7.6 | -6.1 | 1.4 | 2.7 | 133.7 | 31.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -112.9 | 7.6 | -3.4 | 1.4 | 2.7 | 133.0 | 31.0 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -111.0 | 7.6 | -5.9 | 1.4 | 2.7 | 128.6 | 26.6 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -120.7 | 7.6 | -6.1 | 1.4 | 2.7 | 138.1 | 36.1 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -115.3 | 7.6 | -3.4 | 1.4 | 2.7 | 135.4 | 33.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -113.5 | 7.6 | -5.9 | 1.4 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -121.3 | 9.4 | -7.0 | 1.3 | 2.7 | 139.7 | 37.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -114.0 | 9.4 | -6.2 | 1.3 | 2.7 | 133.2 | 31.2 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -111.2 | 9.4 | -6.7 | 1.3 | 2.7 | 129.9 | 27.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -121.3 | 9.4 | -7.0 | 1.3 | 2.7 | 139.7 | 37.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -113.4 | 9.4 | -6.2 | 1.3 | 2.7 | 132.6 | 30.6 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -110.2 | 9.4 | -6.7 | 1.3 | 2.7 | 128.9 | 26.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -118.0 | 9.4 | -7.0 | 1.3 | 2.7 | 136.4 | 34.4 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -109.4 | 9.4 | -6.2 | 1.3 | 2.7 | 128.6 | 26.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -107.5 | 9.4 | -6.7 | 1.3 | 2.7 | 126.2 | 24.2 |

OHIO HILLS B= 30KM SITE 15
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 15

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

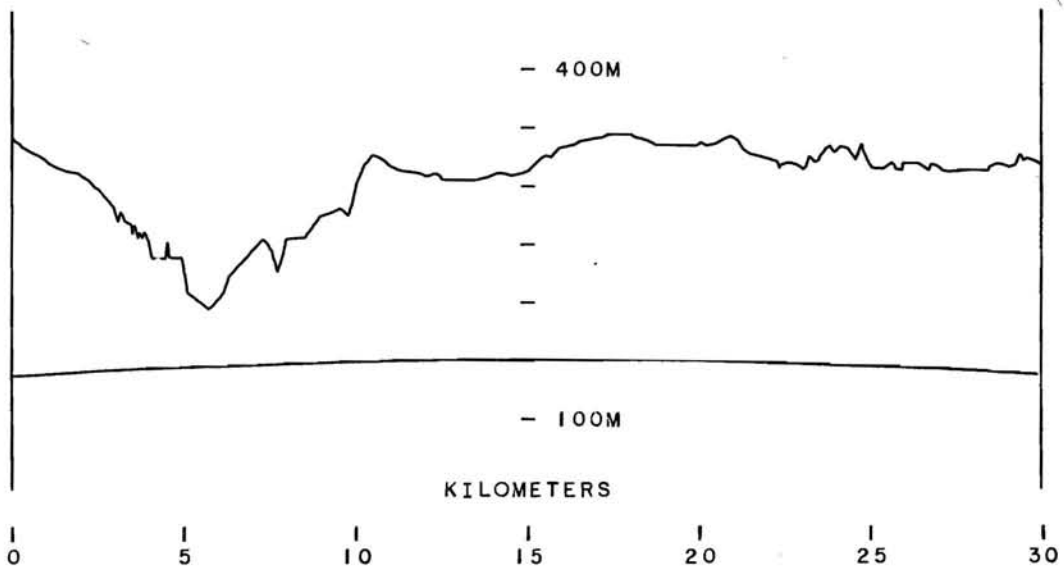
FENCE ALONG ROAD 15FT AHEAD, CLEAR FIELD TO 300FT AHEAD, THEN HOUSE AND BUILDINGS, WITH FIELD CONTINUING BEHIND TO .8MI, WHERE SCATTERED TREES BEGIN, GOING TO HORIZON. CLEAR FIELD FOR .2MI TO RIGHT, ROAD TO LEFT, LINES TO REAR.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 21.3 | -124.8 | | -5.3 | | 0.0 | 140.8 | 52.8 |
| (HLLS, 30, 20,V,V,AV,1) | 21.3 | -123.9 | | -5.3 | | 0.0 | 139.9 | 51.9 |
| (HLLS, 30, 20,V,V,AH,1) | 21.3 | -125.2 | | -5.3 | | 0.0 | 141.2 | 53.2 |
| (HLLS, 30, 50,V,V, P,1) | 16.5 | -122.8 | | -7.0 | | 0.8 | 131.5 | 35.5 |
| (HLLS, 30, 50,V,V, P,2) | 16.5 | -125.4 | | -5.3 | | 0.9 | 135.7 | 39.7 |
| (HLLS, 30, 50,V,V,AV,1) | 16.5 | -128.1 | | -7.0 | | 0.8 | 136.8 | 40.8 |
| (HLLS, 30, 50,V,V,AV,2) | 16.5 | -129.8 | | -5.3 | | 0.9 | 140.1 | 44.1 |
| (HLLS, 30, 50,V,V,AH,1) | 16.5 | -128.7 | | -7.0 | | 0.8 | 137.4 | 41.4 |
| (HLLS, 30, 50,V,V,AH,2) | 16.5 | -126.1 | | -5.3 | | 0.9 | 136.4 | 40.4 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -135.8 | 7.6 | -5.6 | 1.4 | 2.7 | 153.7 | 51.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -126.6 | 7.6 | -3.0 | 1.4 | 2.7 | 147.1 | 45.1 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -123.7 | 7.6 | -6.0 | 1.4 | 2.7 | 141.2 | 39.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -123.7 | 7.6 | -5.6 | 1.4 | 2.7 | 141.6 | 39.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -121.2 | 7.6 | -3.0 | 1.4 | 2.7 | 141.7 | 39.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -120.0 | 7.6 | -6.0 | 1.4 | 2.7 | 137.5 | 35.5 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -125.2 | 7.6 | -5.6 | 1.4 | 2.7 | 143.1 | 41.1 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -122.8 | 7.6 | -3.0 | 1.4 | 2.7 | 143.3 | 41.3 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -121.3 | 7.6 | -6.0 | 1.4 | 2.7 | 138.8 | 36.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -5.9 | 1.3 | 2.7 | 158.4 | 56.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -6.2 | 1.3 | 2.7 | 158.1 | 56.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -6.8 | 1.3 | 2.7 | 153.3 | 51.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -127.5 | 9.4 | -5.9 | 1.3 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -124.9 | 9.4 | -6.2 | 1.3 | 2.7 | 144.1 | 42.1 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.9 | 9.4 | -6.8 | 1.3 | 2.7 | 142.5 | 40.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -123.9 | 9.4 | -5.9 | 1.3 | 2.7 | 143.4 | 41.4 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -123.6 | 9.4 | -6.2 | 1.3 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -121.2 | 9.4 | -6.8 | 1.3 | 2.7 | 139.8 | 37.8 |

OHIO HILLS B= 30KM SITE 16
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 16

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

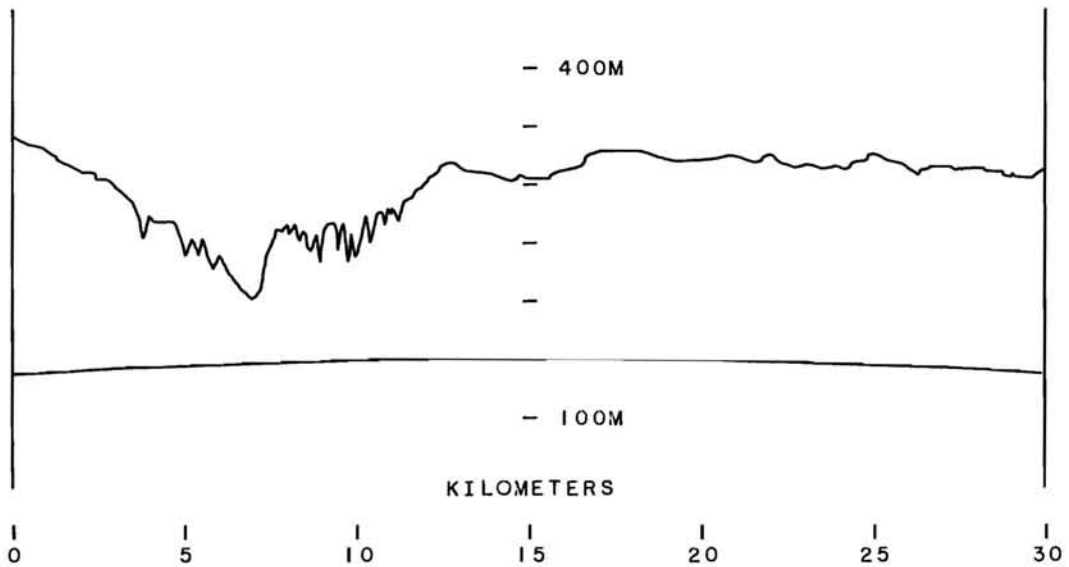
BUILDINGS, PHONE POLES, WIRES, AND TREE 50FT AHEAD, 60FT TREES 150FT AHEAD. CLEAR FIELD BEYOND TO .6MI, FOLLOWED BY BUILDINGS AND SCATTERED TREES TO HORIZON. ROAD TO LEFT, BUILDING AND TREES TO RIGHT, 60FT ELECTRIC LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.2 | -118.4 | | -5.3 | | 0.0 | 135.3 | 47.3 |
| (HLLS, 30, 20,V,V,AV,1) | 22.2 | -120.2 | | -5.3 | | 0.0 | 137.1 | 49.1 |
| (HLLS, 30, 20,V,V,AH,1) | 22.2 | -120.7 | | -5.3 | | 0.0 | 137.6 | 49.6 |
| (HLLS, 30, 50,V,V, P,1) | 15.7 | -125.4 | | -7.0 | | 0.8 | 133.3 | 37.3 |
| (HLLS, 30, 50,V,V, P,2) | 15.7 | -128.1 | | -5.3 | | 0.9 | 137.6 | 41.6 |
| (HLLS, 30, 50,V,V,AV,1) | 15.7 | -126.6 | | -7.0 | | 0.8 | 134.5 | 38.5 |
| (HLLS, 30, 50,V,V,AV,2) | 15.7 | -126.9 | | -5.3 | | 0.9 | 136.4 | 40.4 |
| (HLLS, 30, 50,V,V,AH,1) | 15.7 | -124.9 | | -7.0 | | 0.8 | 132.8 | 36.8 |
| (HLLS, 30, 50,V,V,AH,2) | 15.7 | -128.7 | | -5.3 | | 0.9 | 138.2 | 42.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -134.0 | 7.6 | -5.6 | 1.4 | 2.7 | 151.9 | 49.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -140.1 | 7.6 | -3.0 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -6.0 | 1.4 | 2.7 | 150.4 | 48.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -123.0 | 7.6 | -5.6 | 1.4 | 2.7 | 140.9 | 38.9 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -122.4 | 7.6 | -3.0 | 1.4 | 2.7 | 142.9 | 40.9 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -123.4 | 7.6 | -6.0 | 1.4 | 2.7 | 140.9 | 38.9 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -128.7 | 7.6 | -5.6 | 1.4 | 2.7 | 146.6 | 44.6 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -120.9 | 7.6 | -3.0 | 1.4 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -117.9 | 7.6 | -6.0 | 1.4 | 2.7 | 135.4 | 33.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.4 | 9.4 | -5.9 | 1.3 | 2.7 | 150.9 | 48.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -123.2 | 9.4 | -6.2 | 1.3 | 2.7 | 142.4 | 40.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -120.7 | 9.4 | -6.8 | 1.3 | 2.7 | 139.3 | 37.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -124.1 | 9.4 | -5.9 | 1.3 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -119.2 | 9.4 | -6.2 | 1.3 | 2.7 | 138.4 | 36.4 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -117.9 | 9.4 | -6.8 | 1.3 | 2.7 | 136.5 | 34.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -122.8 | 9.4 | -5.9 | 1.3 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -115.4 | 9.4 | -6.2 | 1.3 | 2.7 | 134.6 | 32.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -113.5 | 9.4 | -6.8 | 1.3 | 2.7 | 132.1 | 30.1 |

OHIO HILLS B= 30KM SITE 17
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 17

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-12-64

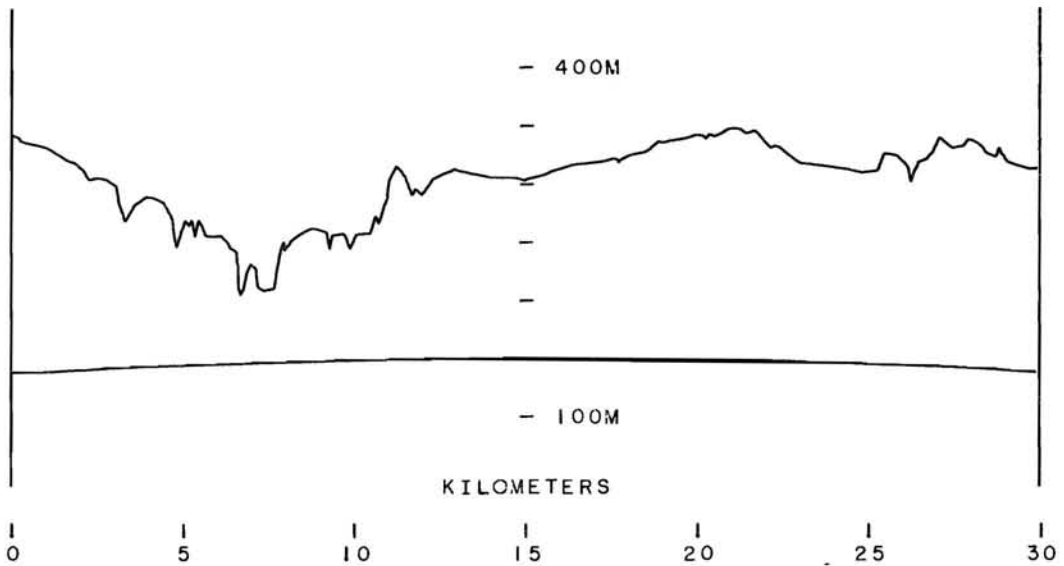
50FT TREE 10FT AHEAD, SCATTERED 40FT TREES AND HOUSE 100FT AHEAD.
 TREES CONTINUING AND BECOMING DENSE WOODS AT .1MI, ENDING AT CITY
 LIMITS AT .5MI. HOUSE 100FT TO LEFT, SCATTERED TREES TO RIGHT, LINES
 CROSSING OVERHEAD AND BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.0 | -125.9 | | -13.0 | | 0.0 | 135.9 | 47.9 |
| (HLLS, 30, 20,V,V,AV,1) | 23.0 | -125.4 | | -13.0 | | 0.0 | 135.4 | 47.4 |
| (HLLS, 30, 20,V,V,AH,1) | 23.0 | -125.4 | | -13.0 | | 0.0 | 135.4 | 47.4 |
| (HLLS, 30, 50,V,V, P,1) | 15.4 | -132.9 | | -13.5 | | 0.8 | 134.0 | 38.0 |
| (HLLS, 30, 50,V,V, P,2) | 15.4 | -120.7 | | -5.4 | | 0.9 | 129.8 | 33.8 |
| (HLLS, 30, 50,V,V,AV,1) | 15.4 | -127.5 | | -13.5 | | 0.8 | 128.6 | 32.6 |
| (HLLS, 30, 50,V,V,AV,2) | 15.4 | -115.4 | | -5.4 | | 0.9 | 124.5 | 28.5 |
| (HLLS, 30, 50,V,V,AH,1) | 15.4 | -127.5 | | -13.5 | | 0.8 | 128.6 | 32.6 |
| (HLLS, 30, 50,V,V,AH,2) | 15.4 | -115.4 | | -5.4 | | 0.9 | 124.5 | 28.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -121.6 | 7.6 | -21.2 | 1.4 | 2.7 | 123.9 | 21.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -119.5 | 7.6 | -8.7 | 1.4 | 2.7 | 134.3 | 32.3 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -118.4 | 7.6 | -5.8 | 1.4 | 2.7 | 136.1 | 34.1 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -116.8 | 7.6 | -21.2 | 1.4 | 2.7 | 119.1 | 17.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -114.7 | 7.6 | -8.7 | 1.4 | 2.7 | 129.5 | 27.5 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -112.4 | 7.6 | -5.8 | 1.4 | 2.7 | 130.1 | 28.1 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -116.8 | 7.6 | -21.2 | 1.4 | 2.7 | 119.1 | 17.1 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -114.7 | 7.6 | -8.7 | 1.4 | 2.7 | 129.5 | 27.5 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -112.4 | 7.6 | -5.8 | 1.4 | 2.7 | 130.1 | 28.1 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -112.9 | 9.4 | -2.9 | 1.3 | 2.7 | 135.4 | 33.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -114.0 | 9.4 | -4.9 | 1.3 | 2.7 | 134.5 | 32.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -111.4 | 9.4 | -5.7 | 1.3 | 2.7 | 131.1 | 29.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -107.3 | 9.4 | -2.9 | 1.3 | 2.7 | 129.8 | 27.8 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -107.3 | 9.4 | -4.9 | 1.3 | 2.7 | 127.8 | 25.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -104.9 | 9.4 | -5.7 | 1.3 | 2.7 | 124.6 | 22.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -107.3 | 9.4 | -2.9 | 1.3 | 2.7 | 129.8 | 27.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -107.3 | 9.4 | -4.9 | 1.3 | 2.7 | 127.8 | 25.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -104.9 | 9.4 | -5.7 | 1.3 | 2.7 | 124.6 | 22.6 |

OHIO HILLS B= 30KM SITE 18
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 18
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-13-64

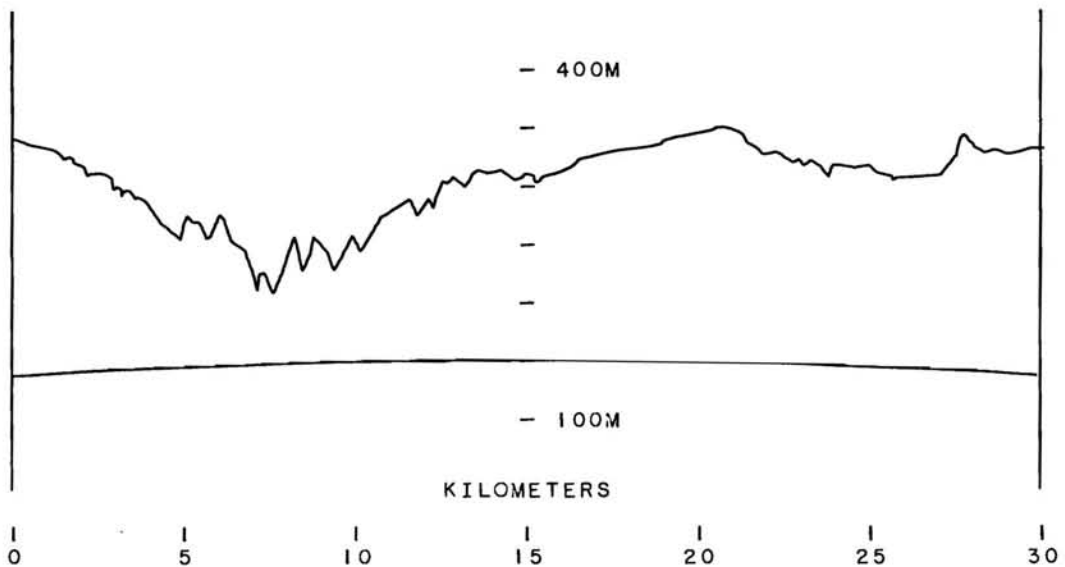
ELECTRIC AND PHONE LINES 40FT OVERHEAD TO FRONT, CLEAR FIELD AHEAD .2
MI, THEN PHONE CABLE AND DRIVE, ALSO WOODS FOR .1MI, THEN SCATTERED
TREES TO HORIZON. SAME OBSTRUCTIONS LEFT, BUILDINGS .4MI TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.4 | -121.4 | | -12.5 | | 0.0 | 132.3 | 44.3 |
| (HLLS, 30, 20,V,V,AV,1) | 23.4 | -122.8 | | -12.5 | | 0.0 | 133.7 | 45.7 |
| (HLLS, 30, 20,V,V,AH,1) | 23.4 | -122.8 | | -12.5 | | 0.0 | 133.7 | 45.7 |
| (HLLS, 30, 50,V,V, P,1) | 15.5 | -135.4 | | -12.0 | | 0.8 | 138.1 | 42.1 |
| (HLLS, 30, 50,V,V, P,2) | 15.5 | -126.4 | | -5.5 | | 0.9 | 135.5 | 39.5 |
| (HLLS, 30, 50,V,V,AV,1) | 15.5 | -131.9 | | -12.0 | | 0.8 | 134.6 | 38.6 |
| (HLLS, 30, 50,V,V,AV,2) | 15.5 | -118.4 | | -5.5 | | 0.9 | 127.5 | 31.5 |
| (HLLS, 30, 50,V,V,AH,1) | 15.5 | -131.9 | | -12.0 | | 0.8 | 134.6 | 38.6 |
| (HLLS, 30, 50,V,V,AH,2) | 15.5 | -118.4 | | -5.5 | | 0.9 | 127.5 | 31.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -125.4 | 7.6 | -22.9 | 1.4 | 2.7 | 126.0 | 24.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -118.8 | 7.6 | -8.6 | 1.4 | 2.7 | 133.7 | 31.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -114.0 | 7.6 | -5.7 | 1.4 | 2.7 | 131.8 | 29.8 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -124.5 | 7.6 | -22.9 | 1.4 | 2.7 | 125.1 | 23.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -117.8 | 7.6 | -8.6 | 1.4 | 2.7 | 132.7 | 30.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -114.7 | 7.6 | -5.7 | 1.4 | 2.7 | 132.5 | 30.5 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -124.5 | 7.6 | -22.9 | 1.4 | 2.7 | 125.1 | 23.1 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -117.8 | 7.6 | -8.6 | 1.4 | 2.7 | 132.7 | 30.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -114.7 | 7.6 | -5.7 | 1.4 | 2.7 | 132.5 | 30.5 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -130.6 | 9.4 | -3.9 | 1.3 | 2.7 | 152.1 | 50.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -123.7 | 9.4 | -4.6 | 1.3 | 2.7 | 144.5 | 42.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -123.7 | 9.4 | -5.6 | 1.3 | 2.7 | 143.5 | 41.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -117.0 | 9.4 | -3.9 | 1.3 | 2.7 | 138.5 | 36.5 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -118.9 | 9.4 | -4.6 | 1.3 | 2.7 | 139.7 | 37.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -117.0 | 9.4 | -5.6 | 1.3 | 2.7 | 136.8 | 34.8 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -117.0 | 9.4 | -3.9 | 1.3 | 2.7 | 138.5 | 36.5 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -118.9 | 9.4 | -4.6 | 1.3 | 2.7 | 139.7 | 37.7 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -117.0 | 9.4 | -5.6 | 1.3 | 2.7 | 136.8 | 34.8 |

OHIO HILLS H= 30KM SITE 19
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 19

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-13-64

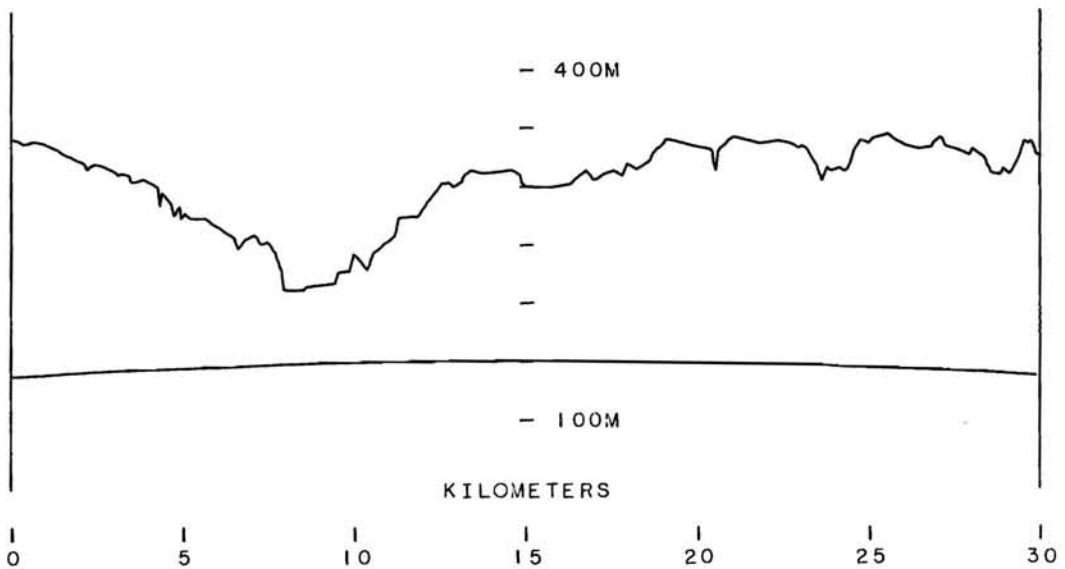
CLEAR FIELD .2MI AHEAD, THEN BRUSH AND 15 TO 50FT TREES TO HORIZON.
SIMILAR OBSTRUCTIONS LEFT AND RIGHT, 15FT PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.4 | -117.0 | | -5.2 | | | 135.2 | 47.2 |
| (HLLS, 30, 20,V,V,AV,1) | 23.4 | -119.9 | | -5.2 | | 0.0 | 138.1 | 50.1 |
| (HLLS, 30, 20,V,V,AH,1) | 23.4 | -118.4 | | -5.2 | | 0.0 | 136.6 | 48.6 |
| (HLLS, 30, 50,V,V, P,1) | 15.7 | -123.0 | | -7.3 | | 0.8 | 130.6 | 34.6 |
| (HLLS, 30, 50,V,V, P,2) | 15.7 | -120.4 | | -5.3 | | 0.9 | 129.9 | 33.9 |
| (HLLS, 30, 50,V,V,AV,1) | 15.7 | -123.4 | | -7.3 | | 0.8 | 131.0 | 35.0 |
| (HLLS, 30, 50,V,V,AV,2) | 15.7 | -123.2 | | -5.3 | | 0.9 | 132.7 | 36.7 |
| (HLLS, 30, 50,V,V,AH,1) | 15.7 | -128.1 | | -7.3 | | 0.8 | 135.7 | 39.7 |
| (HLLS, 30, 50,V,V,AH,2) | 15.7 | -122.8 | | -5.3 | | 0.9 | 132.3 | 36.3 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -120.7 | 7.6 | -4.4 | 1.4 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -120.2 | 7.6 | -2.3 | 1.4 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -115.5 | 7.6 | -6.3 | 1.4 | 2.7 | 132.7 | 30.7 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -117.0 | 7.6 | -4.4 | 1.4 | 2.7 | 136.1 | 34.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -106.4 | 7.6 | -2.3 | 1.4 | 2.7 | 127.6 | 25.6 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -113.3 | 7.6 | -6.3 | 1.4 | 2.7 | 130.5 | 28.5 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -124.1 | 7.6 | -4.4 | 1.4 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -123.9 | 7.6 | -2.3 | 1.4 | 2.7 | 145.1 | 43.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -124.1 | 7.6 | -6.3 | 1.4 | 2.7 | 141.3 | 39.3 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -123.4 | 9.4 | -1.1 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -117.6 | 9.4 | -6.2 | 1.3 | 2.7 | 136.8 | 34.8 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -115.3 | 9.4 | -7.0 | 1.3 | 2.7 | 133.7 | 31.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.2 | 9.4 | -1.1 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -113.9 | 9.4 | -6.2 | 1.3 | 2.7 | 133.1 | 31.1 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -111.7 | 9.4 | -7.0 | 1.3 | 2.7 | 130.1 | 28.1 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -119.9 | 9.4 | -1.1 | 1.3 | 2.7 | 144.2 | 42.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -112.9 | 9.4 | -6.2 | 1.3 | 2.7 | 132.1 | 30.1 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -112.9 | 9.4 | -7.0 | 1.3 | 2.7 | 131.3 | 29.3 |

OHIO HILLS B= 30KM SITE 20
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 20
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-13-64

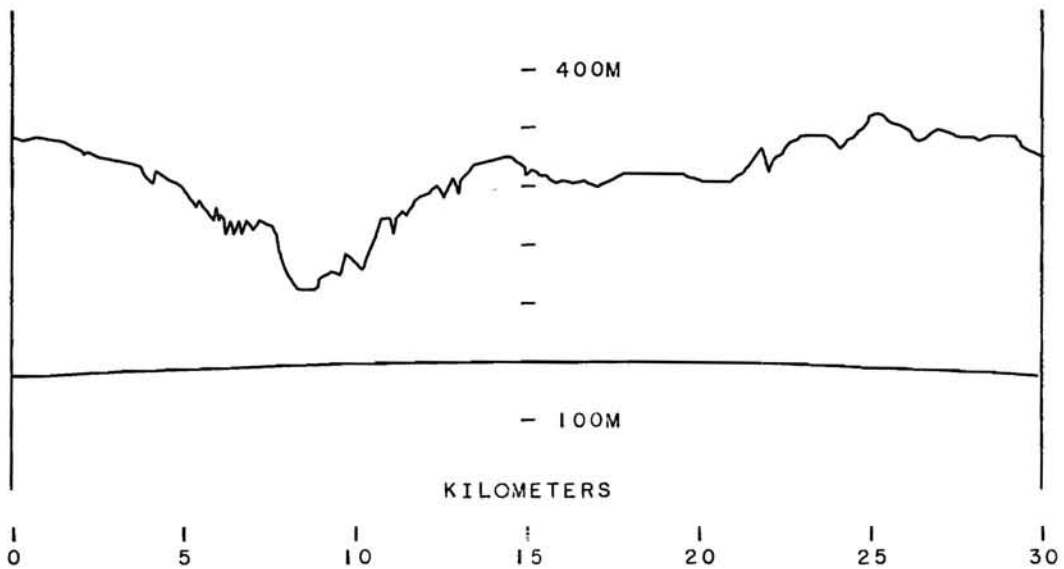
TERRAIN SLOPES DOWN AHEAD, BARN 200FT AHEAD, TREES AND BUILDINGS BEYOND TO .3MI AND SCATTERED TREES ON HORIZON. RT18 TO RIGHT AND .3MI IN FRONT, SCATTERED TREES AND BUILDINGS .1MI TO LEFT. 30FT ELECTRIC AND PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -123.9 | | -12.4 | | 0.0 | 135.0 | 47.0 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -130.2 | | -12.4 | | 0.0 | 141.3 | 53.3 |
| (HLLS, 30, 20,V,V,AH,1) | 23.5 | -130.2 | | -12.4 | | 0.0 | 141.3 | 53.3 |
| (HLLS, 30, 50,V,V, P,1) | 16.3 | -132.9 | | -11.5 | | 0.8 | 136.9 | 40.9 |
| (HLLS, 30, 50,V,V, P,2) | 16.3 | -124.9 | | -5.5 | | 0.9 | 134.8 | 38.8 |
| (HLLS, 30, 50,V,V,AV,1) | 16.3 | -131.0 | | -11.5 | | 0.8 | 135.0 | 39.0 |
| (HLLS, 30, 50,V,V,AV,2) | 16.3 | -124.1 | | -5.5 | | 0.9 | 134.0 | 38.0 |
| (HLLS, 30, 50,V,V,AH,1) | 16.3 | -131.0 | | -11.5 | | 0.8 | 135.0 | 39.0 |
| (HLLS, 30, 50,V,V,AH,2) | 16.3 | -124.1 | | -5.5 | | 0.9 | 134.0 | 38.0 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -127.5 | 7.6 | -23.2 | 1.4 | 2.7 | 127.8 | 25.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -124.1 | 7.6 | -8.5 | 1.4 | 2.7 | 139.1 | 37.1 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -121.6 | 7.6 | -5.7 | 1.4 | 2.7 | 139.4 | 37.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -120.1 | 7.6 | -23.2 | 1.4 | 2.7 | 120.4 | 18.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -122.8 | 7.6 | -8.5 | 1.4 | 2.7 | 137.8 | 35.8 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -5.7 | 1.4 | 2.7 | 145.3 | 43.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -120.1 | 7.6 | -23.2 | 1.4 | 2.7 | 120.4 | 18.4 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -122.8 | 7.6 | -8.5 | 1.4 | 2.7 | 137.8 | 35.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -127.5 | 7.6 | -5.7 | 1.4 | 2.7 | 145.3 | 43.3 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -127.5 | 9.4 | -4.2 | 1.3 | 2.7 | 148.7 | 46.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -122.8 | 9.4 | -4.5 | 1.3 | 2.7 | 143.7 | 41.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -120.1 | 9.4 | -5.4 | 1.3 | 2.7 | 140.1 | 38.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -121.6 | 9.4 | -4.2 | 1.3 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -124.1 | 9.4 | -4.5 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -120.1 | 9.4 | -5.4 | 1.3 | 2.7 | 140.1 | 38.1 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -121.6 | 9.4 | -4.2 | 1.3 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -124.1 | 9.4 | -4.5 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -120.1 | 9.4 | -5.4 | 1.3 | 2.7 | 140.1 | 38.1 |

OHIO HILLS B= 30KM SITE 21
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 21

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-13-64

BARN AND 40FT TREES 200FT AHEAD, THEN CLEAR FOR .2MI, THEN SCATTERED TREES TO HORIZON. 40FT LINES LEFT AND REAR, SCATTERED TREES TO RIGHT BEGINNING AT .1MI, TERRAIN RISING TO FRONT.

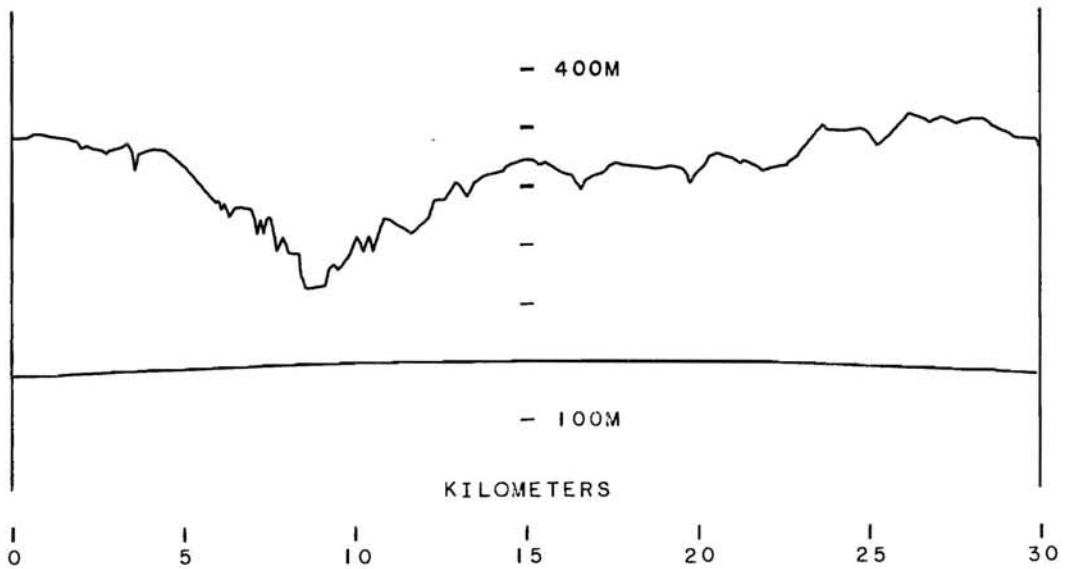
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -122.8 | | -5.2 | | 0.0 | 141.1 | 53.1 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -124.8 | | -5.2 | | 0.0 | 143.1 | 55.1 |
| (HLLS, 30, 20,V,V,AH,1) | 23.5 | -125.2 | | -5.2 | | 0.0 | 143.5 | 55.5 |
| (HLLS, 30, 50,V,V, P,1) | 16.8 | -136.2 | | -7.5 | | 0.8 | 144.7 | 48.7 |
| (HLLS, 30, 50,V,V, P,2) | 16.8 | -135.4 | | -5.3 | | 0.9 | 146.0 | 50.0 |
| (HLLS, 30, 50,V,V,AV,1) | 16.8 | -137.9 | | -7.5 | | 0.8 | 146.4 | 50.4 |
| (HLLS, 30, 50,V,V,AV,2) | 16.8 | -137.0 | | -5.3 | | 0.9 | 147.6 | 51.6 |
| (HLLS, 30, 50,V,V,AH,1) | 16.8 | -137.9 | | -7.5 | | 0.8 | 146.4 | 50.4 |
| (HLLS, 30, 50,V,V,AH,2) | 16.8 | -137.0 | | -5.3 | | 0.9 | 147.6 | 51.6 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -133.5 | 7.6 | -4.2 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.5 | 7.6 | -2.2 | 1.4 | 2.7 | 148.8 | 46.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -6.4 | 1.4 | 2.7 | 144.6 | 42.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -125.4 | 7.6 | -4.2 | 1.4 | 2.7 | 144.7 | 42.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -126.4 | 7.6 | -2.2 | 1.4 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -125.2 | 7.6 | -6.4 | 1.4 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -136.2 | 7.6 | -4.2 | 1.4 | 2.7 | 155.5 | 53.5 |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -132.9 | 9.4 | -0.6 | 1.3 | 2.7 | 157.7 | 55.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -6.2 | 1.3 | 2.7 | 151.1 | 49.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -125.6 | 9.4 | -7.0 | 1.3 | 2.7 | 144.0 | 42.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -128.1 | 9.4 | -0.6 | 1.3 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -118.9 | 9.4 | -6.2 | 1.3 | 2.7 | 138.1 | 36.1 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -117.9 | 9.4 | -7.0 | 1.3 | 2.7 | 136.3 | 34.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -127.5 | 9.4 | -0.6 | 1.3 | 2.7 | 152.3 | 50.3 |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 22
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 22

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-16-64

ROLLING TERRAIN, SCATTERED TREES AND BUILDINGS 150FT ON HILLTOP.

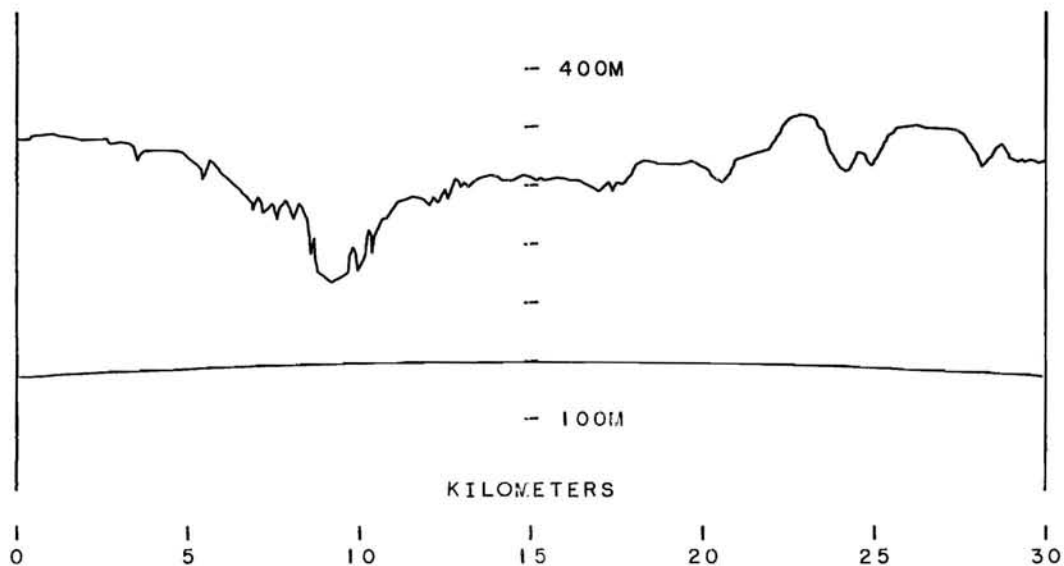
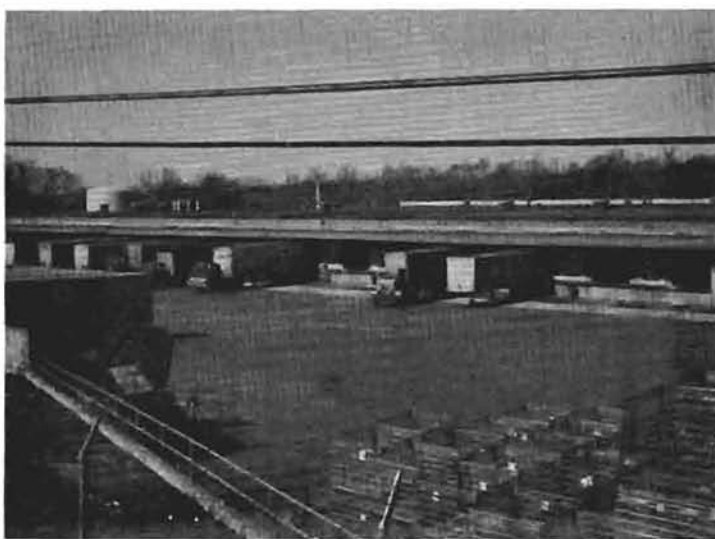
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -121.4 | | -5.4 | | 0.0 | 139.5 | 51.5 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -124.3 | | -5.4 | | 0.0 | 142.4 | 54.4 |
| (HLLS, 30, 20,V,V,AH,1) | 23.5 | -123.7 | | -5.4 | | 0.0 | 141.8 | 53.8 |
| (HLLS, 30, 50,V,V, P,1) | 17.0 | -125.4 | | -6.4 | | 0.8 | 135.2 | 39.2 |
| (HLLS, 30, 50,V,V, P,2) | 17.0 | -131.0 | | -6.1 | | 0.9 | 141.0 | 45.0 |
| (HLLS, 30, 50,V,V,AV,1) | 17.0 | -127.2 | | -6.4 | | 0.8 | 137.0 | 41.0 |
| (HLLS, 30, 50,V,V,AV,2) | 17.0 | -124.9 | | -6.1 | | 0.9 | 134.9 | 38.9 |
| (HLLS, 30, 50,V,V,AH,1) | 17.0 | -128.4 | | -6.4 | | 0.8 | 138.2 | 42.2 |
| (HLLS, 30, 50,V,V,AH,2) | 17.0 | -127.5 | | -6.1 | | 0.9 | 137.5 | 41.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -131.9 | 7.6 | -8.5 | 1.4 | 2.7 | 146.9 | 44.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -126.6 | 7.6 | -4.2 | 1.4 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -123.9 | 7.6 | -5.5 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -128.1 | 7.6 | -8.5 | 1.4 | 2.7 | 143.1 | 41.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.1 | 7.6 | -4.2 | 1.4 | 2.7 | 143.4 | 41.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -124.1 | 7.6 | -5.5 | 1.4 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -137.9 | 7.6 | -8.5 | 1.4 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -132.4 | 7.6 | -4.2 | 1.4 | 2.7 | 151.7 | 49.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -126.4 | 7.6 | -5.5 | 1.4 | 2.7 | 144.4 | 42.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.9 | 9.4 | -9.2 | 1.3 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.7 | 9.4 | -6.4 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.5 | 9.4 | -6.3 | 1.3 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -136.2 | 9.4 | -9.2 | 1.3 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -133.5 | 9.4 | -6.4 | 1.3 | 2.7 | 152.5 | 50.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -132.4 | 9.4 | -6.3 | 1.3 | 2.7 | 151.5 | 49.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.0 | 9.4 | -9.2 | 1.3 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.7 | 9.4 | -6.4 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -124.9 | 9.4 | -6.3 | 1.3 | 2.7 | 144.0 | 42.0 |

OHIO HILLS B= 30KM SITE 23

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 23
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-16-64

RECESSED TRUCKING DOCK WITH WOODS 1/4MI AHEAD, LEVEL TERRAIN BEYOND,
POWER LINE 20FT TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -123.4 | | -5.2 | | 0.0 | 141.7 | 53.7 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -120.1 | | -5.2 | | 0.0 | 138.4 | 50.4 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 30, 50,V,V, P,1) | 17.1 | -123.4 | | -7.1 | | 0.8 | 132.6 | 36.6 |
| (HLLS, 30, 50,V,V, P,2) | 17.1 | -120.6 | | -5.2 | | 0.9 | 131.6 | 35.6 |
| (HLLS, 30, 50,V,V,AV,1) | 17.1 | -138.9 | | -7.1 | | 0.8 | 148.1 | 52.1 |
| (HLLS, 30, 50,V,V,AV,2) | 17.1 | -132.4 | | -5.2 | | 0.9 | 143.4 | 47.4 |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -132.9 | 7.6 | -4.8 | 1.4 | 2.7 | 151.6 | 49.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -125.2 | 7.6 | -2.5 | 1.4 | 2.7 | 146.2 | 44.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -126.9 | 7.6 | -6.2 | 1.4 | 2.7 | 144.2 | 42.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -129.4 | 7.6 | -4.8 | 1.4 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -127.5 | 7.6 | -2.5 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.4 | 7.6 | -6.2 | 1.4 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -132.9 | 9.4 | -6.2 | 1.3 | 2.7 | 152.1 | 50.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -132.9 | 9.4 | -7.0 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -3.0 | 1.3 | 2.7 | 159.4 | 57.4 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -131.9 | 9.4 | -6.2 | 1.3 | 2.7 | 151.1 | 49.1 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -135.4 | 9.4 | -7.0 | 1.3 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

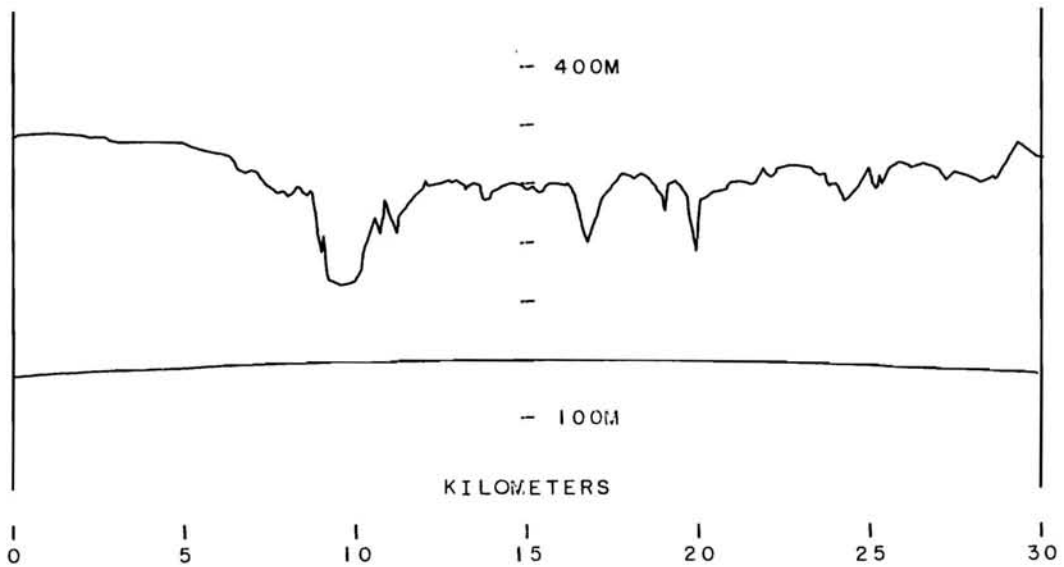
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 24
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 24

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-16-64

OPEN FLAT LAND (AIRPORT APPROACH).

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -121.4 | | -12.7 | | 0.0 | 132.2 | 44.2 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -121.4 | | -12.7 | | 0.0 | 132.2 | 44.2 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 17.1 | ** | | -9.2 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 17.1 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | 17.1 | ** | | -9.2 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AV,2) | 17.1 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -134.7 | 7.6 | -19.5 | 1.4 | 2.7 | 138.7 | 36.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -7.1 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -6.2 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -134.7 | 7.6 | -19.5 | 1.4 | 2.7 | 138.7 | 36.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -7.1 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -131.0 | 7.6 | -6.2 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 53.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -131.0 | 9.4 | -5.2 | 1.3 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 53.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -131.0 | 9.4 | -5.2 | 1.3 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

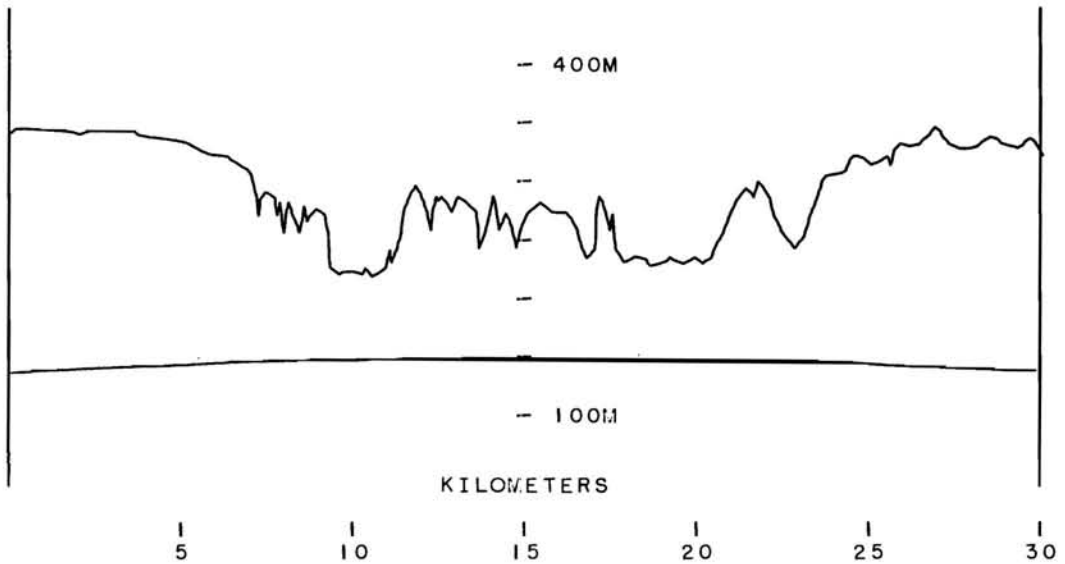
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 25
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 25

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-17-64

FLAT HILL WITH HEAVY BRUSH AT 30FT. AIRPORT RUNWAY TO EAST.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|--------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.4 | -122.8 | | -5.0 | | 0.0 | 141.2 | 53.2 |
| (HLLS, 30, 20,V,V,AV,1) | 23.4 | -122.8 | | -5.0 | | 0.0 | 141.2 | 53.2 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 17.0 | -127.5 | | -2.7 | | 0.8 | 141.0 | 45.0 |
| (HLLS, 30, 50,V,V, P,2) | 17.0 | -127.5 | | -8.9 | | 0.9 | 134.7 | 38.7 |
| (HLLS, 30, 50,V,V,AV,1) | 17.0 | -127.5 | | -2.7 | | 0.8 | 141.0 | 45.0 |
| (HLLS, 30, 50,V,V,AV,2) | 17.0 | -127.5 | | -8.9 | | 0.9 | 134.7 | 38.7 |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 100,V,V, P,3) | 20.0 | -134.0 | 7.6 | -3.5 | 1.4 | 2.7 | 154.0 | 52.0 |
| (HLLS, 30, 100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -2.6 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30, 100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -2.5 | 1.4 | 2.7 | 152.0 | 50.0 |
| (HLLS, 30, 100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -3.5 | 1.4 | 2.7 | 154.0 | 52.0 |
| (HLLS, 30, 100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -2.6 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30, 100,V,V,AV,9) | 20.0 | -131.0 | 7.6 | -2.5 | 1.4 | 2.7 | 152.0 | 50.0 |
| (HLLS, 30, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30, 100,H,H, P,3) | 20.0 | ** | 9.4 | -5.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30, 100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -2.9 | 1.3 | 2.7 | 161.4 | 59.4 |
| (HLLS, 30, 100,H,H, P,9) | 20.0 | -134.0 | 9.4 | -3.5 | 1.3 | 2.7 | 155.9 | 53.9 |
| (HLLS, 30, 100,H,H,AV,3) | 20.0 | ** | 9.4 | -5.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30, 100,H,H,AV,6) | 20.0 | -138.9 | 9.4 | -2.9 | 1.3 | 2.7 | 161.4 | 59.4 |
| (HLLS, 30, 100,H,H,AV,9) | 20.0 | -134.0 | 9.4 | -3.5 | 1.3 | 2.7 | 155.9 | 53.9 |
| (HLLS, 30, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

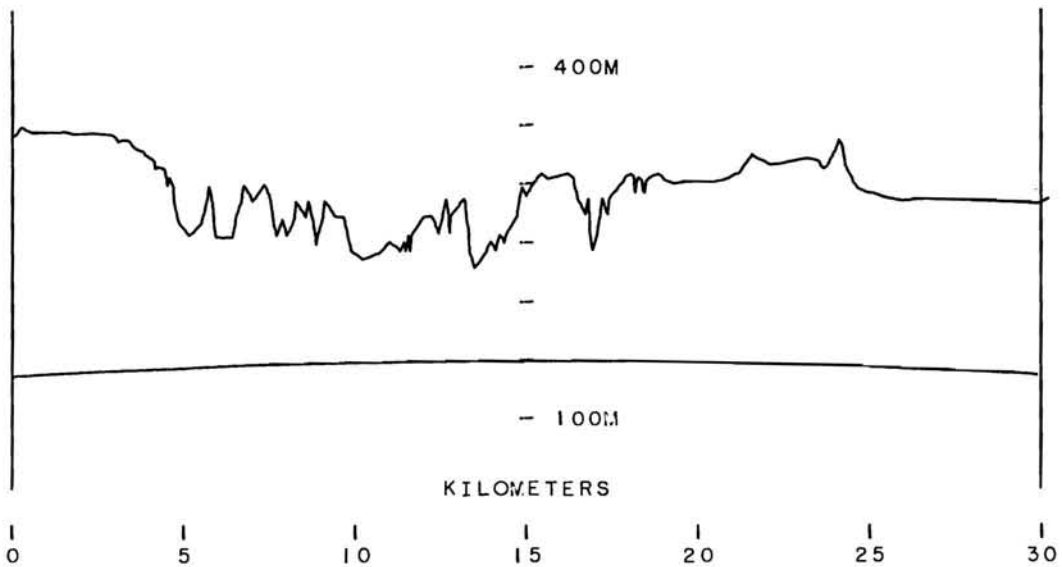
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 26
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 8= 30KM SITE 26

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-17-64

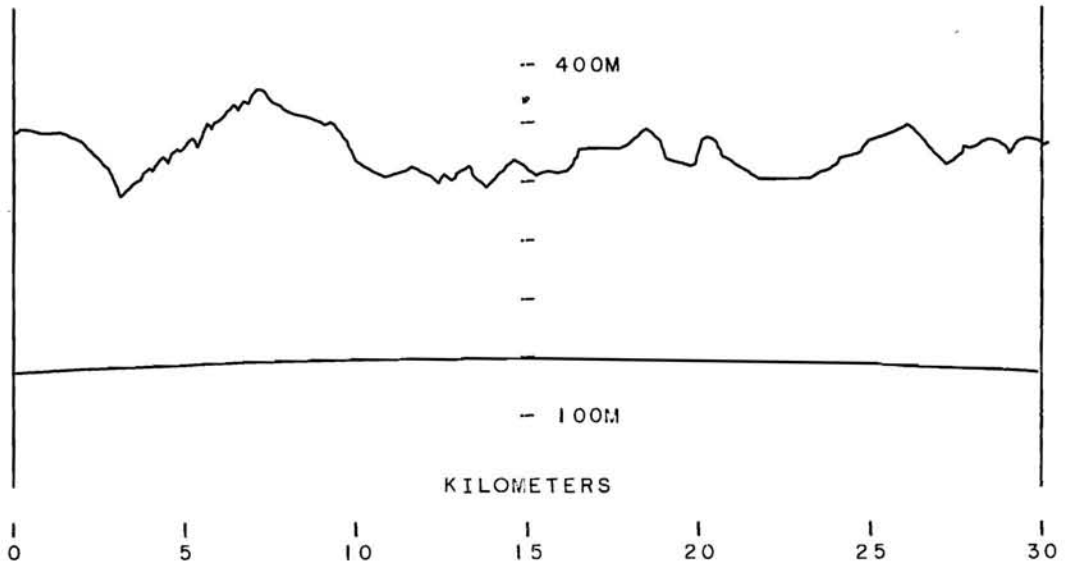
SITE ON HILL WITH 20FT BANKS RISING ON EACH SIDE, HEAVILY WOODED
AREA AT 30FT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.2 | -123.9 | | -13.2 | | 0.0 | 133.9 | 45.9 |
| (HLLS, 30, 20,V,V,AV,1) | 23.2 | -124.9 | | -13.2 | | 0.0 | 134.9 | 46.9 |
| (HLLS, 30, 20,V,V,AH,1) | 23.2 | -123.9 | | -13.2 | | 0.0 | 133.9 | 45.9 |
| (HLLS, 30, 50,V,V, P,1) | 16.6 | -136.2 | | -14.9 | | 0.8 | 137.1 | 41.1 |
| (HLLS, 30, 50,V,V, P,2) | 16.6 | -131.4 | | -5.4 | | 0.9 | 141.7 | 45.7 |
| (HLLS, 30, 50,V,V,AV,1) | 16.6 | -136.2 | | -14.9 | | 0.8 | 137.1 | 41.1 |
| (HLLS, 30, 50,V,V,AV,2) | 16.6 | -126.9 | | -5.4 | | 0.9 | 137.2 | 41.2 |
| (HLLS, 30, 50,V,V,AH,1) | 16.6 | -136.2 | | -14.9 | | 0.8 | 137.1 | 41.1 |
| (HLLS, 30, 50,V,V,AH,2) | 16.6 | -127.6 | | -5.4 | | 0.9 | 137.9 | 41.9 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -18.6 | 1.4 | 2.7 | 141.1 | 39.1 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.0 | 7.6 | -8.7 | 1.4 | 2.7 | 145.8 | 43.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -6.0 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -126.6 | 7.6 | -18.6 | 1.4 | 2.7 | 131.5 | 29.5 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -125.9 | 7.6 | -8.7 | 1.4 | 2.7 | 140.7 | 38.7 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -125.9 | 7.6 | -6.0 | 1.4 | 2.7 | 143.4 | 41.4 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -129.4 | 7.6 | -18.6 | 1.4 | 2.7 | 134.3 | 32.3 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -126.6 | 7.6 | -8.7 | 1.4 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -124.9 | 7.6 | -6.0 | 1.4 | 2.7 | 142.4 | 40.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -140.1 | 9.4 | -2.0 | 1.3 | 2.7 | 163.5 | 61.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -5.3 | 1.3 | 2.7 | 149.1 | 47.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -121.7 | 9.4 | -6.0 | 1.3 | 2.7 | 141.1 | 39.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.9 | 9.4 | -2.0 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -5.3 | 1.3 | 2.7 | 148.8 | 46.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -121.3 | 9.4 | -6.0 | 1.3 | 2.7 | 140.7 | 38.7 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -123.4 | 9.4 | -2.0 | 1.3 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -127.5 | 9.4 | -5.3 | 1.3 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -119.9 | 9.4 | -6.0 | 1.3 | 2.7 | 139.3 | 37.3 |

OHIO HILLS B= 30KM SITE 27
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 27

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-17-64

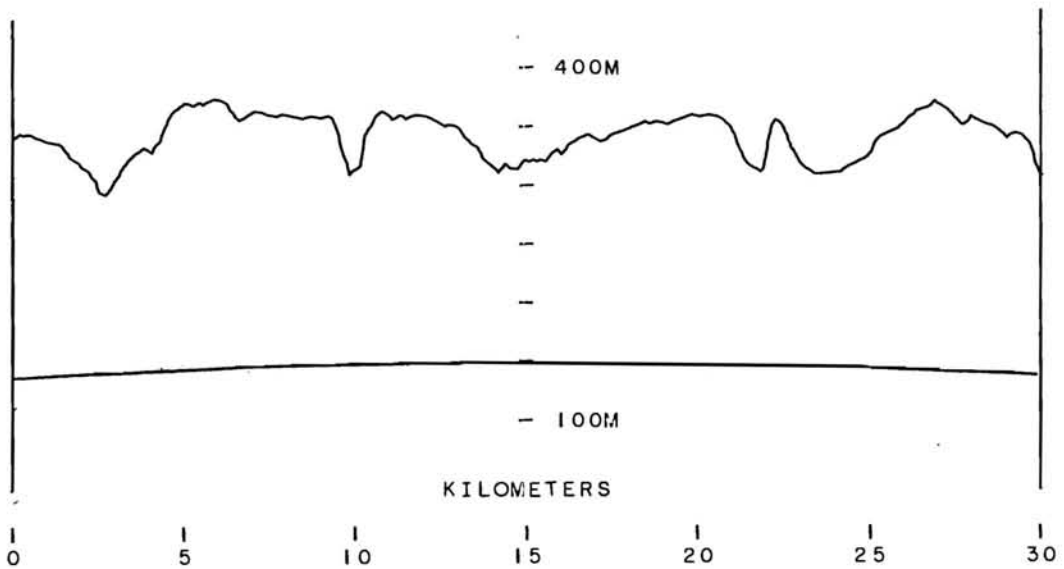
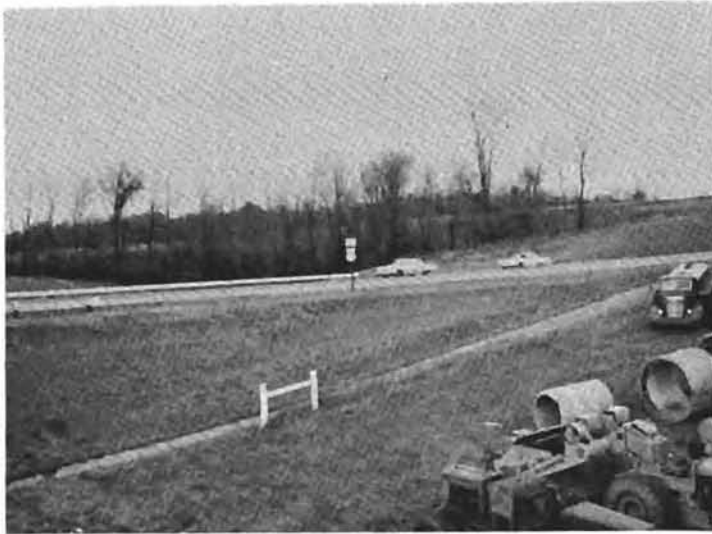
ROLLING FIELDS - SCATTERED TREES AND BUILDINGS AT 500FT, RAILROAD
TRACKS AT 150FT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 21.0 | -123.0 | | -12.7 | | 0.0 | 131.3 | 43.3 |
| (HLLS, 30, 20,V,V,AV,1) | 21.0 | -124.5 | | -12.7 | | 0.0 | 132.8 | 44.8 |
| (HLLS, 30, 20,V,V,AH,1) | 21.0 | -124.5 | | -12.7 | | 0.0 | 132.8 | 44.8 |
| (HLLS, 30, 50,V,V, P,1) | 14.2 | -133.5 | | -7.4 | | 0.8 | 139.5 | 43.5 |
| (HLLS, 30, 50,V,V, P,2) | 14.2 | -133.5 | | -5.4 | | 0.9 | 141.4 | 45.4 |
| (HLLS, 30, 50,V,V,AV,1) | 14.2 | -131.0 | | -7.4 | | 0.8 | 137.0 | 41.0 |
| (HLLS, 30, 50,V,V,AV,2) | 14.2 | -131.0 | | -5.4 | | 0.9 | 138.9 | 42.9 |
| (HLLS, 30, 50,V,V,AH,1) | 14.2 | -131.0 | | -7.4 | | 0.8 | 137.0 | 41.0 |
| (HLLS, 30, 50,V,V,AH,2) | 14.2 | -131.0 | | -5.4 | | 0.9 | 138.9 | 42.9 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -9.0 | 1.4 | 2.7 | 156.0 | 54.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -3.5 | 1.4 | 2.7 | 154.7 | 52.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -6.6 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -132.9 | 7.6 | -9.0 | 1.4 | 2.7 | 147.4 | 45.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -3.5 | 1.4 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -126.4 | 7.6 | -6.6 | 1.4 | 2.7 | 143.3 | 41.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -132.9 | 7.6 | -9.0 | 1.4 | 2.7 | 147.4 | 45.4 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -131.4 | 7.6 | -3.5 | 1.4 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -126.4 | 7.6 | -6.6 | 1.4 | 2.7 | 143.3 | 41.3 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -4.8 | 1.3 | 2.7 | 159.5 | 57.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -130.2 | 9.4 | -5.1 | 1.3 | 2.7 | 150.5 | 48.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.4 | 9.4 | -5.3 | 1.3 | 2.7 | 146.5 | 44.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -134.0 | 9.4 | -4.8 | 1.3 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -126.4 | 9.4 | -5.1 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -125.2 | 9.4 | -5.3 | 1.3 | 2.7 | 145.3 | 43.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -134.0 | 9.4 | -4.8 | 1.3 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -126.4 | 9.4 | -5.1 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -125.2 | 9.4 | -5.3 | 1.3 | 2.7 | 145.3 | 43.3 |

OHIO HILLS B= 30KM SITE 28
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 28

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-17-64

SITE ON MAN-MADE HILLTOP, ROLLING HILLS TOWARD TRANSMITTER, ROW OF 40 FT TREES 300FT AWAY, MAINTENANCE YARD 100FT EAST.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|------|------|-------|------|------|------|----|
| (HLLS, 30, 20,V,V, P,1) | 17.3 | ** | | -13.2 | | 0.0 | ** | ** |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 16.1 | ** | | -14.6 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 16.1 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -19.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

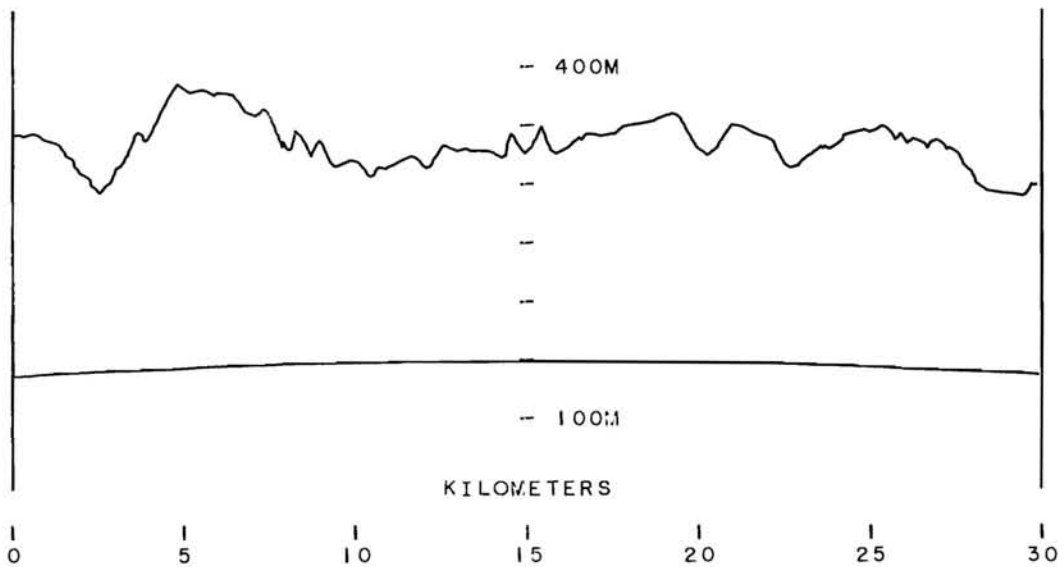
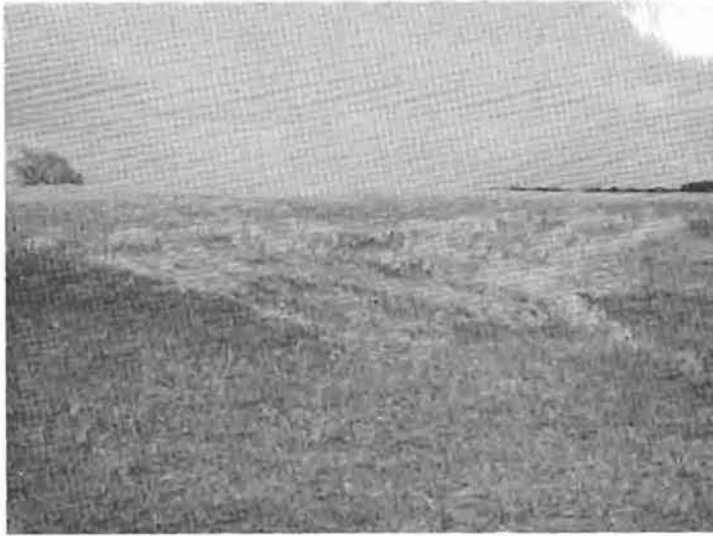
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 29
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 29

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-17-64

20FT HILL TOWARD TRANSMITTER WITH OPEN FIELD BEYOND. SCATTERED 40FT TREES TO WEST AND TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -126.9 | | -6.1 | | 0.0 | 137.8 | 49.8 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -127.5 | | -6.1 | | 0.0 | 138.4 | 50.4 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 18.0 | -130.6 | | -9.2 | | 0.8 | 138.6 | 42.6 |
| (HLLS, 30, 50,V,V, P,2) | 18.0 | -130.6 | | -5.2 | | 0.9 | 142.5 | 46.5 |
| (HLLS, 30, 50,V,V,AV,1) | 18.0 | -131.0 | | -9.2 | | 0.8 | 139.0 | 43.0 |
| (HLLS, 30, 50,V,V,AV,2) | 18.0 | -131.0 | | -5.2 | | 0.9 | 142.9 | 46.9 |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -4.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -135.4 | 7.6 | -6.5 | 1.4 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -4.6 | 1.4 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -130.2 | 7.6 | -2.5 | 1.4 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -128.7 | 7.6 | -6.5 | 1.4 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -135.4 | 9.4 | -6.4 | 1.3 | 2.7 | 154.4 | 52.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -6.7 | 1.3 | 2.7 | 153.4 | 51.4 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -136.2 | 9.4 | -6.4 | 1.3 | 2.7 | 155.2 | 53.2 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -131.9 | 9.4 | -6.7 | 1.3 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

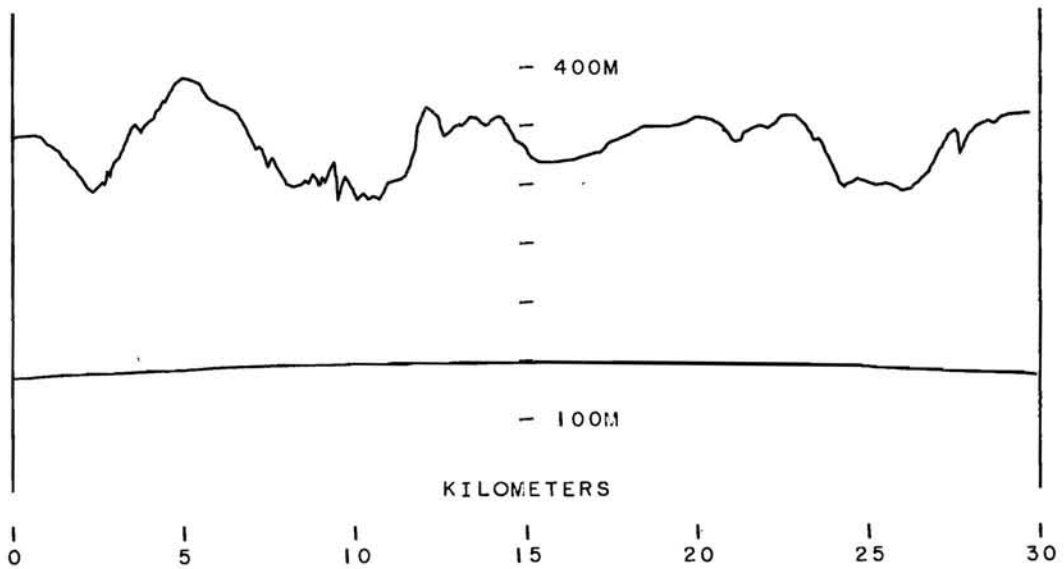
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 30
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 30

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-18-64

NORTH-SOUTH ROW OF 50FT TREES DUE NORTH. OPEN FLAT FIELDS.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -123.9 | | -12.6 | | 0.0 | 128.3 | 40.3 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -123.9 | | -12.6 | | 0.0 | 128.3 | 40.3 |
| (HLLS, 30, 20,V,V,AH,1) | 17.0 | -123.9 | | -12.6 | | 0.0 | 128.3 | 40.3 |
| (HLLS, 30, 50,V,V, P,1) | 19.2 | -134.0 | | -12.5 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V, P,2) | 19.2 | -124.8 | | -5.5 | | 0.9 | 137.6 | 41.6 |
| (HLLS, 30, 50,V,V,AV,1) | 19.2 | -134.0 | | -12.5 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V,AV,2) | 19.2 | -124.8 | | -5.5 | | 0.9 | 137.6 | 41.6 |
| (HLLS, 30, 50,V,V,AH,1) | 19.2 | -134.0 | | -12.5 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V,AH,2) | 19.2 | -124.8 | | -5.5 | | 0.9 | 137.6 | 41.6 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -131.0 | 7.6 | -22.3 | 1.4 | 2.7 | 132.2 | 30.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.2 | 7.6 | -8.8 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.2 | 7.6 | -5.7 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -131.0 | 7.6 | -22.3 | 1.4 | 2.7 | 132.2 | 30.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -127.2 | 7.6 | -8.8 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.2 | 7.6 | -5.7 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -131.0 | 7.6 | -22.3 | 1.4 | 2.7 | 132.2 | 30.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -127.2 | 7.6 | -8.8 | 1.4 | 2.7 | 141.9 | 39.9 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -127.2 | 7.6 | -5.7 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -132.4 | 9.4 | -3.5 | 1.3 | 2.7 | 154.3 | 52.3 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.7 | 9.4 | -4.6 | 1.3 | 2.7 | 149.5 | 47.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -127.2 | 9.4 | -5.6 | 1.3 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -132.4 | 9.4 | -3.5 | 1.3 | 2.7 | 154.3 | 52.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -4.6 | 1.3 | 2.7 | 149.5 | 47.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -127.2 | 9.4 | -5.6 | 1.3 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -132.4 | 9.4 | -3.5 | 1.3 | 2.7 | 154.3 | 52.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.7 | 9.4 | -4.6 | 1.3 | 2.7 | 149.5 | 47.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -127.2 | 9.4 | -5.6 | 1.3 | 2.7 | 147.0 | 45.0 |

OHIO HILLS B= 30KM SITE 31

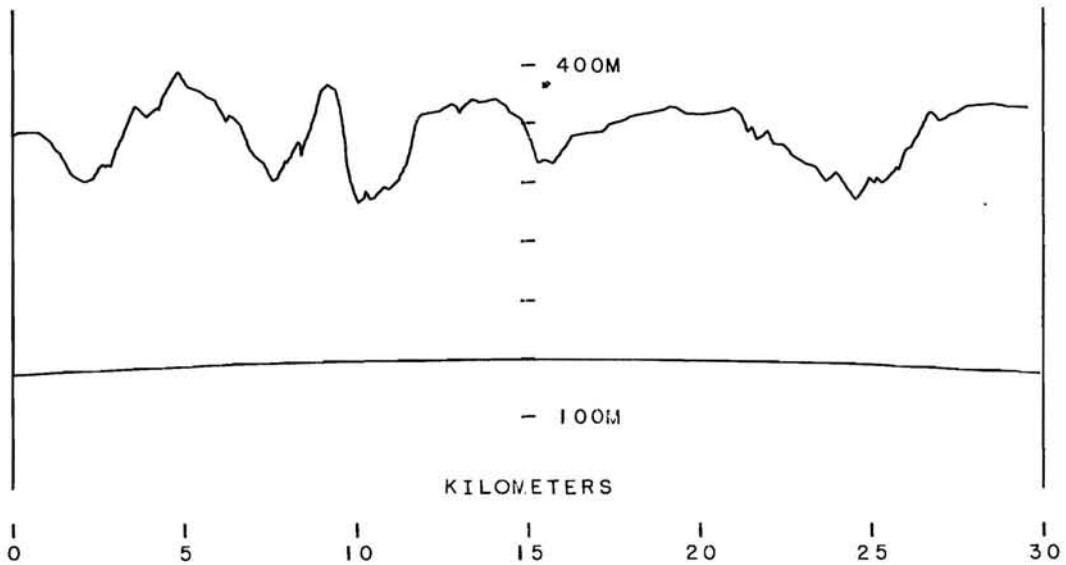
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

20MHZ
3.68

50MHZ
4.24

100MHZ
3.96



OHIO HILLS B= 30KM SITE 31

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-18-64

SITE ON GENTLE SLOPE, APPLE ORCHARD 30FT NORTH, OPEN FIELD WITH SCATTERED BUILDINGS BEYOND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -123.6 | | -5.2 | | 0.0 | 135.4 | 47.4 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -123.7 | | -5.2 | | 0.0 | 135.5 | 47.5 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 19.7 | ** | | -3.0 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 19.7 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | 19.7 | -132.9 | | -3.0 | | 0.8 | 148.8 | 52.8 |
| (HLLS, 30, 50,V,V,AV,2) | 19.7 | -135.4 | | -8.6 | | 0.9 | 145.6 | 49.6 |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -2.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -1.8 | 1.4 | 2.7 | 153.1 | 51.1 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -2.0 | 1.4 | 2.7 | 155.0 | 53.0 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -2.0 | 1.4 | 2.7 | 153.4 | 51.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.4 | 7.6 | -1.8 | 1.4 | 2.7 | 151.1 | 49.1 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | ** | 9.4 | -3.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -3.4 | 1.3 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | ** | 9.4 | -3.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -132.4 | 9.4 | -3.0 | 1.3 | 2.7 | 154.8 | 52.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -130.2 | 9.4 | -3.4 | 1.3 | 2.7 | 152.2 | 50.2 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

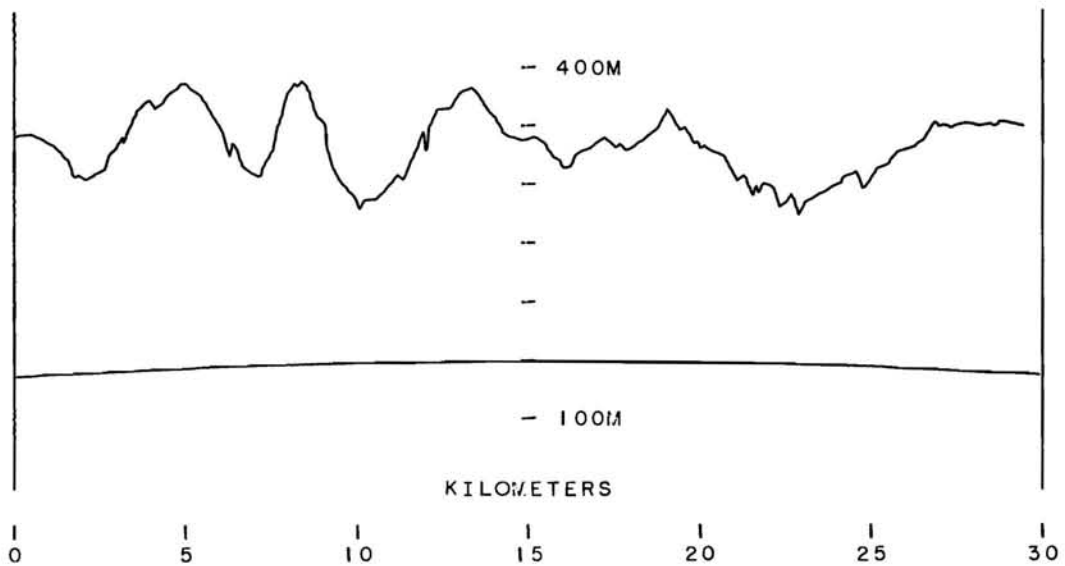
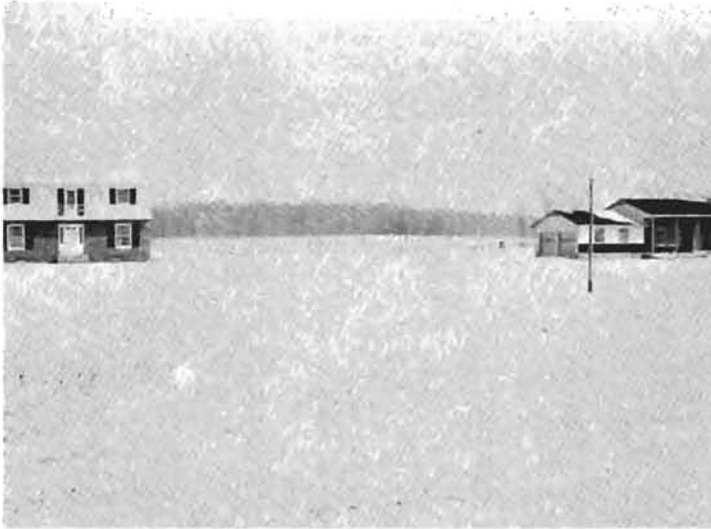
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 32
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 32

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-18-64

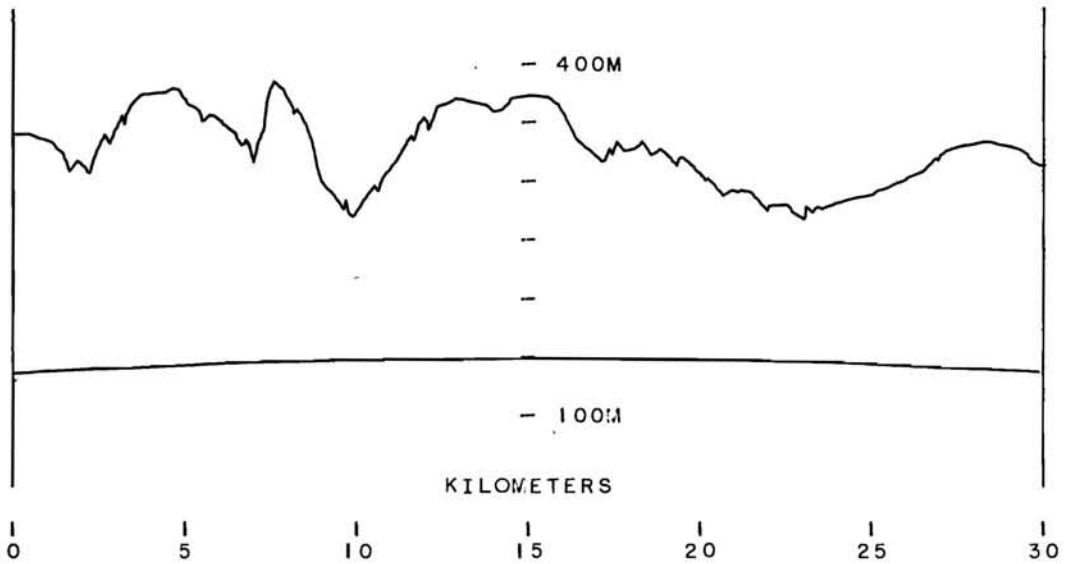
SCATTERED HOUSES AT 300FT, HEAVY WOODS AT 2MI. 30-40FT TREES SOUTH,
HEAVY WOODS SOUTHEAST.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -124.8 | | -12.4 | | 0.0 | 129.4 | 41.4 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -126.4 | | -12.4 | | 0.0 | 131.0 | 43.0 |
| (HLLS, 30, 20,V,V,AH,1) | 17.0 | -126.4 | | -12.4 | | 0.0 | 131.0 | 43.0 |
| (HLLS, 30, 50,V,V, P,1) | 20.3 | -132.9 | | -10.8 | | 0.8 | 141.6 | 45.6 |
| (HLLS, 30, 50,V,V, P,2) | 20.3 | -125.9 | | -5.5 | | 0.9 | 139.8 | 43.8 |
| (HLLS, 30, 50,V,V,AV,1) | 20.3 | -133.5 | | -10.8 | | 0.8 | 142.2 | 46.2 |
| (HLLS, 30, 50,V,V,AV,2) | 20.3 | -125.6 | | -5.5 | | 0.9 | 139.5 | 43.5 |
| (HLLS, 30, 50,V,V,AH,1) | 20.3 | -131.4 | | -10.8 | | 0.8 | 140.1 | 44.1 |
| (HLLS, 30, 50,V,V,AH,2) | 20.3 | -123.9 | | -5.5 | | 0.9 | 137.8 | 41.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -128.1 | 7.6 | -23.6 | 1.4 | 2.7 | 128.0 | 26.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -126.9 | 7.6 | -8.3 | 1.4 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -124.5 | 7.6 | -5.8 | 1.4 | 2.7 | 142.2 | 40.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -127.5 | 7.6 | -23.6 | 1.4 | 2.7 | 127.4 | 25.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -128.1 | 7.6 | -8.3 | 1.4 | 2.7 | 143.3 | 41.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -5.8 | 1.4 | 2.7 | 145.2 | 43.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -131.9 | 7.6 | -23.6 | 1.4 | 2.7 | 131.8 | 29.8 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -127.6 | 7.6 | -8.3 | 1.4 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -126.4 | 7.6 | -5.8 | 1.4 | 2.7 | 144.1 | 42.1 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -136.2 | 9.4 | -4.7 | 1.3 | 2.7 | 156.9 | 54.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.4 | 9.4 | -4.4 | 1.3 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -128.1 | 9.4 | -5.4 | 1.3 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -4.7 | 1.3 | 2.7 | 156.1 | 54.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -133.5 | 9.4 | -4.4 | 1.3 | 2.7 | 154.5 | 52.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -130.6 | 9.4 | -5.4 | 1.3 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -4.7 | 1.3 | 2.7 | 153.6 | 51.6 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -130.2 | 9.4 | -4.4 | 1.3 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -130.2 | 9.4 | -5.4 | 1.3 | 2.7 | 150.2 | 48.2 |

OHIO HILLS B= 30KM SITE 33
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 33

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-18-64

ROLLING HILLS - SCATTERED BUILDINGS AT 100FT, HEAVY WOODS AT 1/2MI.
30FT TREES 30FT WEST ALONG ROAD.

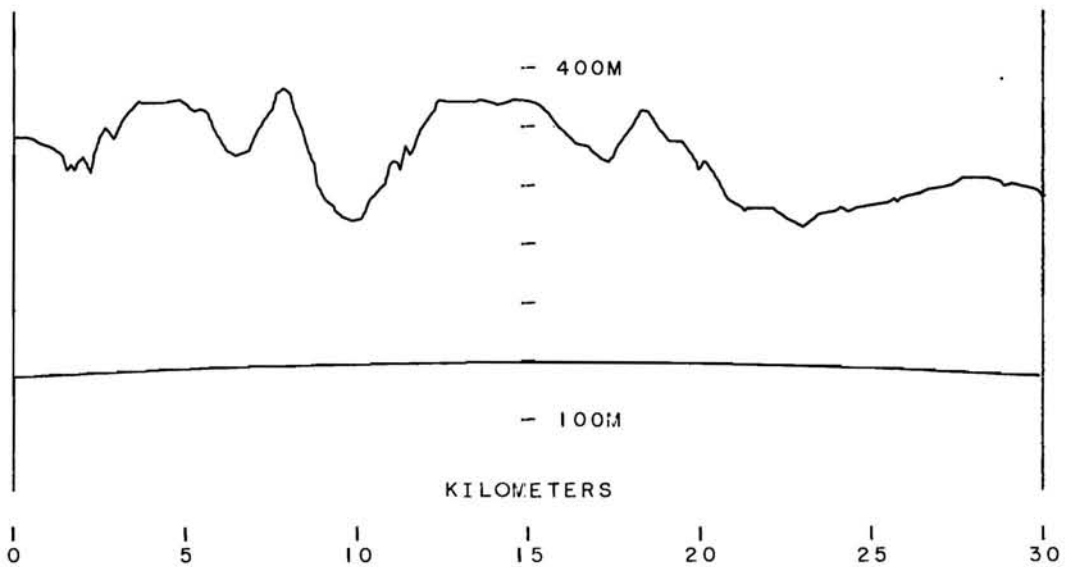
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.3 | -123.0 | | -5.9 | | 0.0 | 134.4 | 46.4 |
| (HLLS, 30, 20,V,V,AV,1) | 17.3 | -126.4 | | -5.9 | | 0.0 | 137.8 | 49.8 |
| (HLLS, 30, 20,V,V,AH,1) | 17.3 | -125.6 | | -5.9 | | 0.0 | 137.0 | 49.0 |
| (HLLS, 30, 50,V,V, P,1) | 20.8 | -127.6 | | -9.0 | | 0.8 | 138.6 | 42.6 |
| (HLLS, 30, 50,V,V, P,2) | 20.8 | -123.6 | | -5.2 | | 0.9 | 138.3 | 42.3 |
| (HLLS, 30, 50,V,V,AV,1) | 20.8 | -131.0 | | -9.0 | | 0.8 | 142.0 | 46.0 |
| (HLLS, 30, 50,V,V,AV,2) | 20.8 | -127.2 | | -5.2 | | 0.9 | 141.9 | 45.9 |
| (HLLS, 30, 50,V,V,AH,1) | 20.8 | ** | | -9.0 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AH,2) | 20.8 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -4.4 | 1.4 | 2.7 | 155.3 | 53.3 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -133.5 | 7.6 | -2.5 | 1.4 | 2.7 | 154.5 | 52.5 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -130.6 | 7.6 | -6.5 | 1.4 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -131.4 | 7.6 | -4.4 | 1.4 | 2.7 | 150.5 | 48.5 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -2.5 | 1.4 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.0 | 7.6 | -6.5 | 1.4 | 2.7 | 146.0 | 44.0 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -134.7 | 7.6 | -4.4 | 1.4 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -2.5 | 1.4 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -130.6 | 7.6 | -6.5 | 1.4 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -136.2 | 9.4 | 0.0 | 1.3 | 2.7 | 161.6 | 59.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -6.4 | 1.3 | 2.7 | 153.0 | 51.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -130.6 | 9.4 | -6.7 | 1.3 | 2.7 | 149.3 | 47.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -133.5 | 9.4 | 0.0 | 1.3 | 2.7 | 158.9 | 56.9 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -130.2 | 9.4 | -6.4 | 1.3 | 2.7 | 149.2 | 47.2 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -129.4 | 9.4 | -6.7 | 1.3 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.4 | 9.4 | 0.0 | 1.3 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -129.0 | 9.4 | -6.4 | 1.3 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -125.9 | 9.4 | -6.7 | 1.3 | 2.7 | 144.6 | 42.6 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 34
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 34
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-18-64

ROLLING HILLS - TELEGRAPH LINE AND RAILROAD TRACKS TO WEST, 30FT
TREES 100FT TOWARD TRANSMITTER, WOODS 1MI AWAY.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.6 | -126.9 | | -12.7 | | 0.0 | 131.8 | 43.8 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | ** | | -9.2 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -129.0 | | -5.5 | | 0.9 | 143.5 | 47.5 |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -20.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -6.2 | 1.4 | 2.7 | 150.2 | 48.2 |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -4.4 | 1.3 | 2.7 | 158.0 | 56.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -135.4 | 9.4 | -5.2 | 1.3 | 2.7 | 155.6 | 53.6 |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

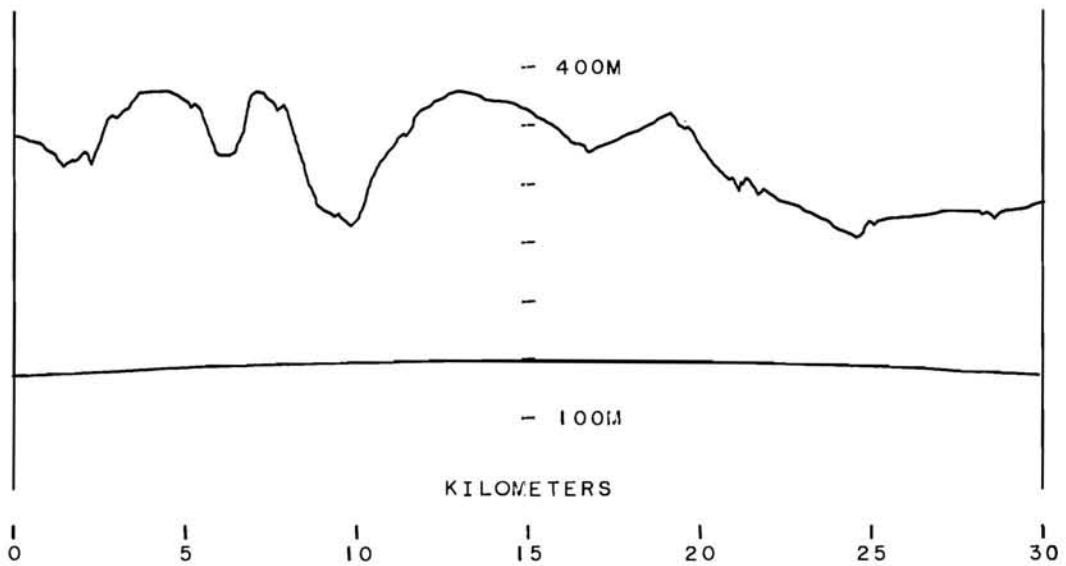
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 35
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B* 30KM SITE 35
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-19-64

BARN 100FT AWAY, HOUSE AND BUILDINGS 50FT NORTH. OPEN FIELDS BEYOND
AND TO SOUTH.

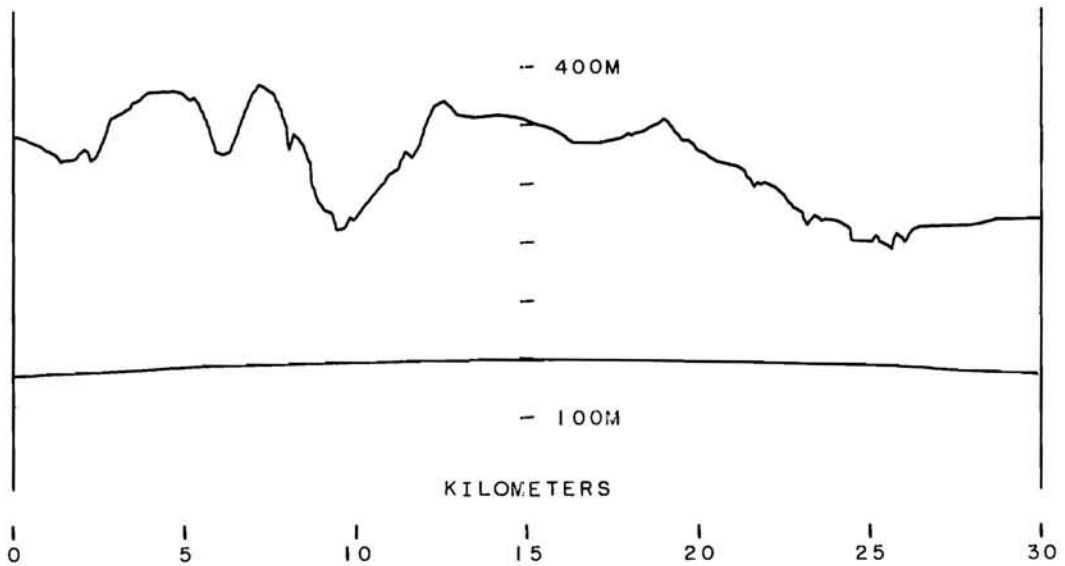
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 18.7 | -124.9 | | -5.0 | | 0.0 | 138.6 | 50.6 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -127.5 | | -3.4 | | 0.8 | 144.2 | 48.2 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -130.2 | | -8.8 | | 0.9 | 141.4 | 45.4 |
| (HLLS, 30, 50,V,V,AV,1) | 20.9 | -129.4 | | -3.4 | | 0.8 | 146.1 | 50.1 |
| (HLLS, 30, 50,V,V,AV,2) | 20.9 | -132.4 | | -8.8 | | 0.9 | 143.6 | 47.6 |
| (HLLS, 30, 50,V,V,AH,1) | 20.9 | -127.5 | | -3.4 | | 0.8 | 144.2 | 48.2 |
| (HLLS, 30, 50,V,V,AH,2) | 20.9 | -131.0 | | -8.8 | | 0.9 | 142.2 | 46.2 |
| | | | | | | | | |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -5.9 | 1.4 | 2.7 | 153.0 | 51.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.6 | 7.6 | -3.0 | 1.4 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.2 | 7.6 | -2.8 | 1.4 | 2.7 | 147.9 | 45.9 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -130.2 | 7.6 | -5.9 | 1.4 | 2.7 | 147.8 | 45.8 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -128.1 | 7.6 | -3.0 | 1.4 | 2.7 | 148.6 | 46.6 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -126.1 | 7.6 | -2.8 | 1.4 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -5.9 | 1.4 | 2.7 | 151.1 | 49.1 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -127.6 | 7.6 | -3.0 | 1.4 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -125.4 | 7.6 | -2.8 | 1.4 | 2.7 | 146.1 | 44.1 |
| | | | | | | | | |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.4 | 9.4 | -6.2 | 1.3 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -127.2 | 9.4 | -3.0 | 1.3 | 2.7 | 149.6 | 47.6 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.3 | 9.4 | -3.5 | 1.3 | 2.7 | 146.2 | 44.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -132.9 | 9.4 | -6.2 | 1.3 | 2.7 | 152.1 | 50.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -129.0 | 9.4 | -3.0 | 1.3 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -128.1 | 9.4 | -3.5 | 1.3 | 2.7 | 150.0 | 48.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -129.4 | 9.4 | -6.2 | 1.3 | 2.7 | 148.6 | 46.6 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -127.2 | 9.4 | -3.0 | 1.3 | 2.7 | 149.6 | 47.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -124.8 | 9.4 | -3.5 | 1.3 | 2.7 | 146.7 | 44.7 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 36
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 36

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-19-64

OPEN FIELD, HEAVY TREES 1/4MI AHEAD, 20FT HEDGE 20FT LEFT, BUILDINGS
1/8MI TOWARD TRANSMITTER.

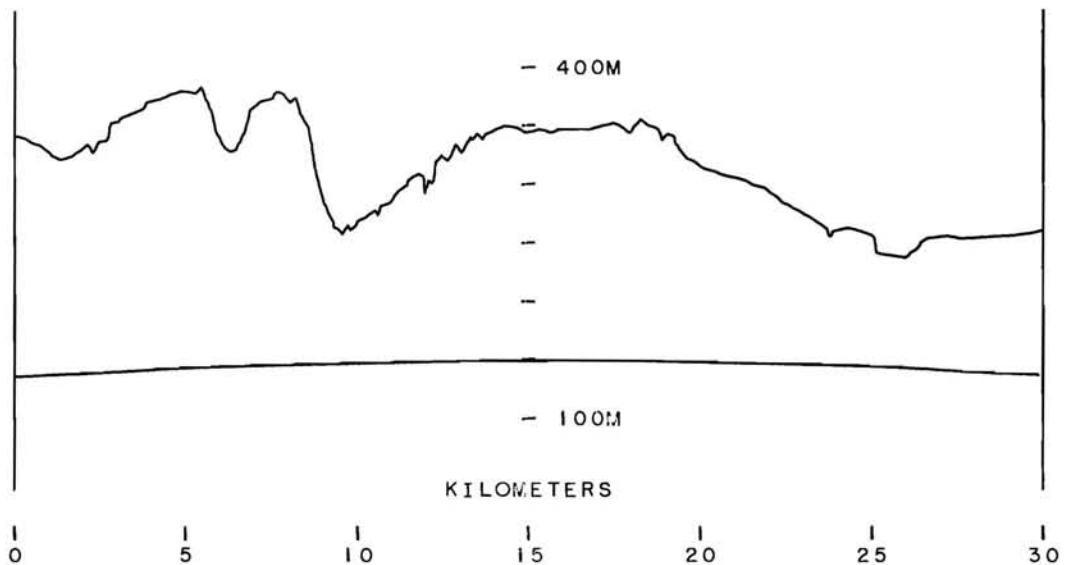
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.6 | -121.0 | | -5.1 | | 0.0 | 135.5 | 47.5 |
| (HLLS, 30, 20,V,V,AV,1) | 19.6 | -121.0 | | -5.1 | | 0.0 | 135.5 | 47.5 |
| (HLLS, 30, 20,V,V,AH,1) | 19.6 | -118.9 | | -5.1 | | 0.0 | 133.4 | 45.4 |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -127.2 | | -4.2 | | 0.8 | 143.1 | 47.1 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -129.4 | | -8.6 | | 0.9 | 140.8 | 44.8 |
| (HLLS, 30, 50,V,V,AV,1) | 20.9 | -127.2 | | -4.2 | | 0.8 | 143.1 | 47.1 |
| (HLLS, 30, 50,V,V,AV,2) | 20.9 | -129.4 | | -8.6 | | 0.9 | 140.8 | 44.8 |
| (HLLS, 30, 50,V,V,AH,1) | 20.9 | -126.6 | | -4.2 | | 0.8 | 142.5 | 46.5 |
| (HLLS, 30, 50,V,V,AH,2) | 20.9 | -128.1 | | -8.6 | | 0.9 | 139.5 | 43.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -7.8 | 1.4 | 2.7 | 151.9 | 49.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -3.7 | 1.4 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -3.7 | 1.4 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -136.2 | 7.6 | -7.8 | 1.4 | 2.7 | 151.9 | 49.9 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -3.7 | 1.4 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -3.7 | 1.4 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | ** | 7.6 | -7.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -133.5 | 7.6 | -3.7 | 1.4 | 2.7 | 153.3 | 51.3 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -131.9 | 7.6 | -3.7 | 1.4 | 2.7 | 151.7 | 49.7 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.4 | 9.4 | -7.1 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -127.5 | 9.4 | -3.2 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.1 | 9.4 | -3.6 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -131.4 | 9.4 | -7.1 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -3.2 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -124.1 | 9.4 | -3.6 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -129.0 | 9.4 | -7.1 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -126.1 | 9.4 | -3.2 | 1.3 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.7 | 9.4 | -3.6 | 1.3 | 2.7 | 145.5 | 43.5 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 37
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 8= 30KM SITE 37

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-19-64

OPEN FIELDS ALL AROUND, BUILDINGS .5MI TOWARD TRANSMITTER.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 20.5 | -116.2 | | -5.2 | 0.0 | | 131.5 | 43.5 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | * | | * | * |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -124.5 | | -4.8 | 0.8 | | 139.8 | 43.8 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -124.5 | | -8.3 | 0.9 | | 136.2 | 40.2 |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | * | | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | * | | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | * | | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -4.1 | 1.4 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -130.6 | 7.6 | -4.4 | 1.4 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -8.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -4.5 | 1.3 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -130.6 | 9.4 | -4.7 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

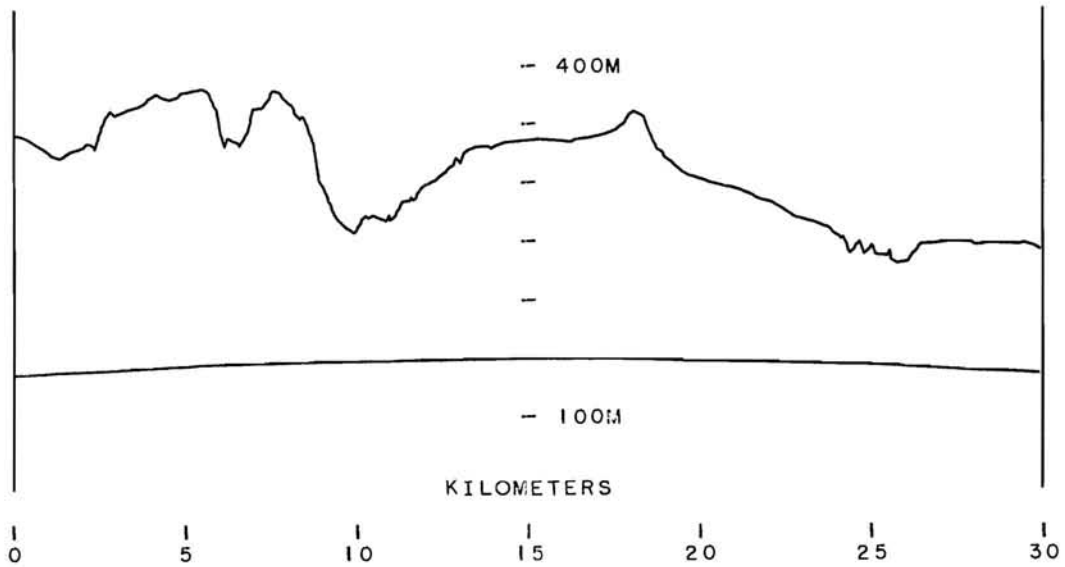
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 38
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 38

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-19-64

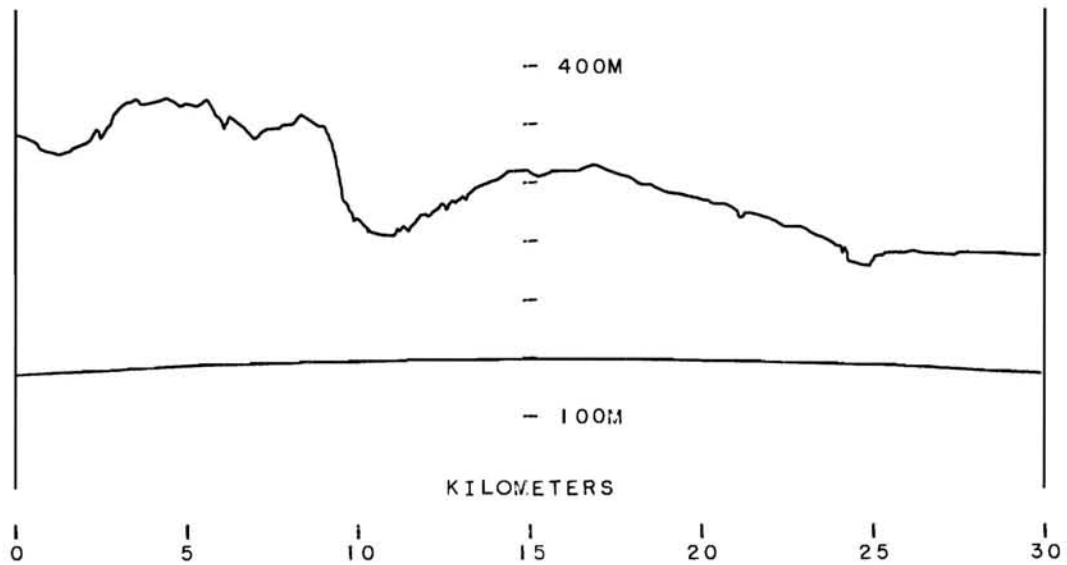
FLAT LAND ALL DIRECTIONS; 20FT TREES BOTH SIDES OF ROAD; 50FT TREE
20FT NORTH; BUILDINGS .5MI AWAY.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 21.2 | -116.6 | | -5.2 | | 0.0 | 132.6 | 44.6 |
| (HLLS, 30, 20,V,V,AV,1) | 21.2 | -116.6 | | -5.2 | | 0.0 | 132.6 | 44.6 |
| (HLLS, 30, 20,V,V,AH,1) | 21.2 | -116.6 | | -5.2 | | 0.0 | 132.6 | 44.6 |
| (HLLS, 30, 50,V,V, P,1) | 20.7 | -126.6 | | -5.2 | | 0.8 | 141.3 | 45.3 |
| (HLLS, 30, 50,V,V, P,2) | 20.7 | -131.4 | | -7.9 | | 0.9 | 143.3 | 47.3 |
| (HLLS, 30, 50,V,V,AV,1) | 20.7 | -126.6 | | -5.2 | | 0.8 | 141.3 | 45.3 |
| (HLLS, 30, 50,V,V,AV,2) | 20.7 | -131.4 | | -7.9 | | 0.9 | 143.3 | 47.3 |
| (HLLS, 30, 50,V,V,AH,1) | 20.7 | -126.6 | | -5.2 | | 0.8 | 141.3 | 45.3 |
| (HLLS, 30, 50,V,V,AH,2) | 20.7 | -131.4 | | -7.9 | | 0.9 | 143.3 | 47.3 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -133.5 | 7.6 | -8.8 | 1.4 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -4.3 | 1.4 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -129.8 | 7.6 | -4.8 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -8.8 | 1.4 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -4.3 | 1.4 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.8 | 7.6 | -4.8 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -8.8 | 1.4 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -131.4 | 7.6 | -4.3 | 1.4 | 2.7 | 150.6 | 48.6 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.8 | 7.6 | -4.8 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -8.6 | 1.3 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -133.5 | 9.4 | -5.4 | 1.3 | 2.7 | 153.5 | 51.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -131.4 | 9.4 | -5.5 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -8.6 | 1.3 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -133.5 | 9.4 | -5.4 | 1.3 | 2.7 | 153.5 | 51.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -131.4 | 9.4 | -5.5 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -137.0 | 9.4 | -8.6 | 1.3 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -133.5 | 9.4 | -5.4 | 1.3 | 2.7 | 153.5 | 51.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -131.4 | 9.4 | -5.5 | 1.3 | 2.7 | 151.3 | 49.3 |

OHIO HILLS B= 30KM SITE 39
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 39

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-19-64

30FT TREE WITH DENSE FOLIAGE 30FT TOWARD TRANSMITTER, MODERATE WOODS
500FT AWAY, FLAT FIELDS NORTH AND SOUTH, OIL STORAGE TANK 20FT HIGH,
10FT IN DIAMETER, 40FT AWAY.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.0 | -120.1 | | -5.4 | | 0.0 | 136.7 | 48.7 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 20.4 | -123.7 | | -6.2 | | 0.8 | 137.1 | 41.1 |
| (HLLS, 30, 50,V,V, P,2) | 20.4 | -124.9 | | -6.2 | | 0.9 | 138.2 | 42.2 |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -5.4 | 1.4 | 2.7 | 149.5 | 47.5 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -130.2 | 7.6 | -8.7 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -4.2 | 1.4 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -5.4 | 1.4 | 2.7 | 145.6 | 43.6 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -9.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.4 | 9.4 | -6.3 | 1.3 | 2.7 | 150.5 | 48.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -129.0 | 9.4 | -6.2 | 1.3 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -130.2 | 9.4 | -9.3 | 1.3 | 2.7 | 146.3 | 44.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -129.0 | 9.4 | -6.3 | 1.3 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.9 | 9.4 | -6.2 | 1.3 | 2.7 | 143.1 | 41.1 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

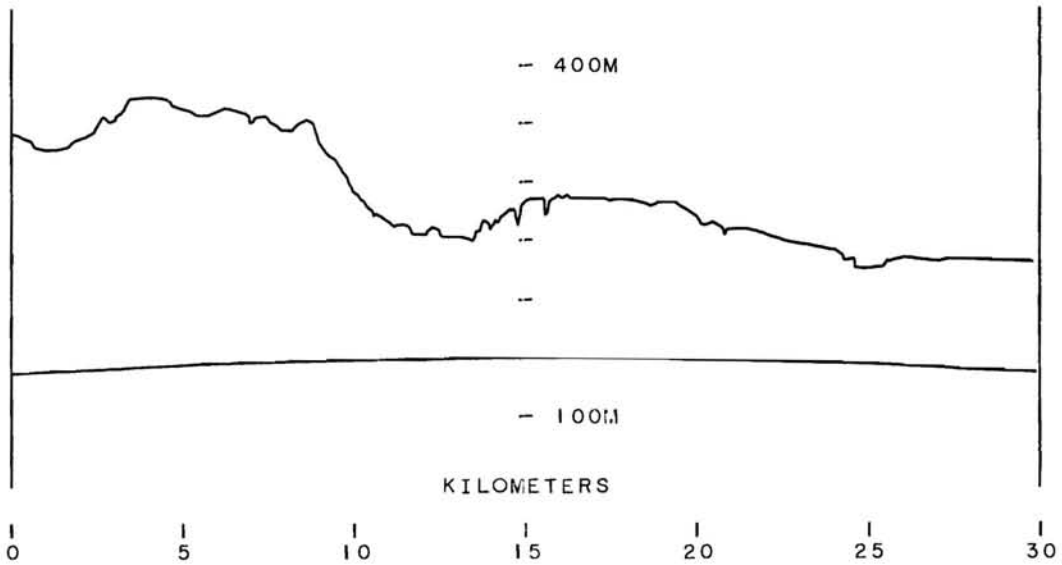
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 40
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 40

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-20-64

FLAT FIELDS. DENSE WOODS 1/2MI AWAY, BUILDINGS 500FT SOUTH.

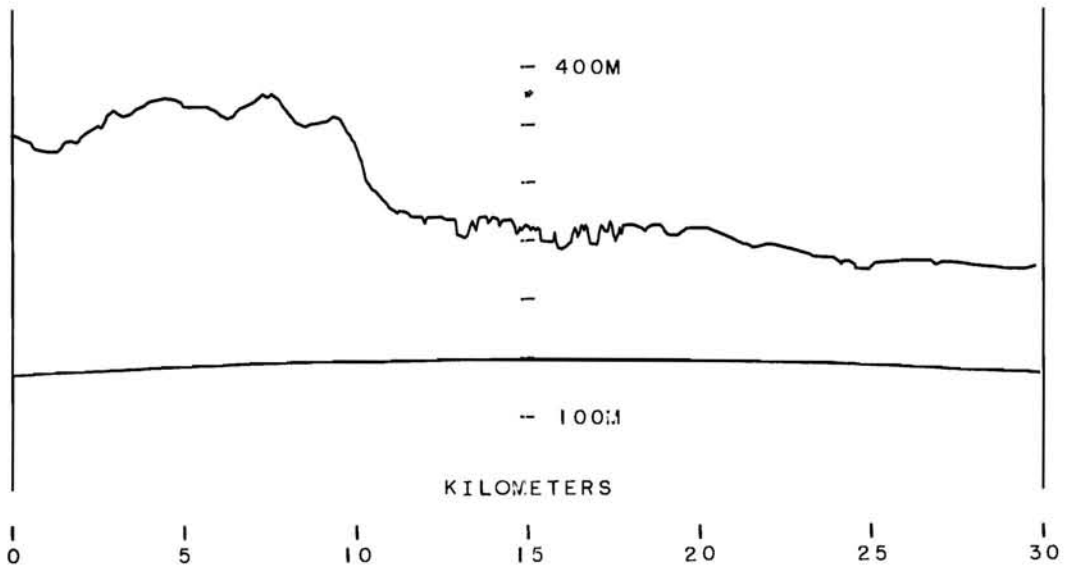
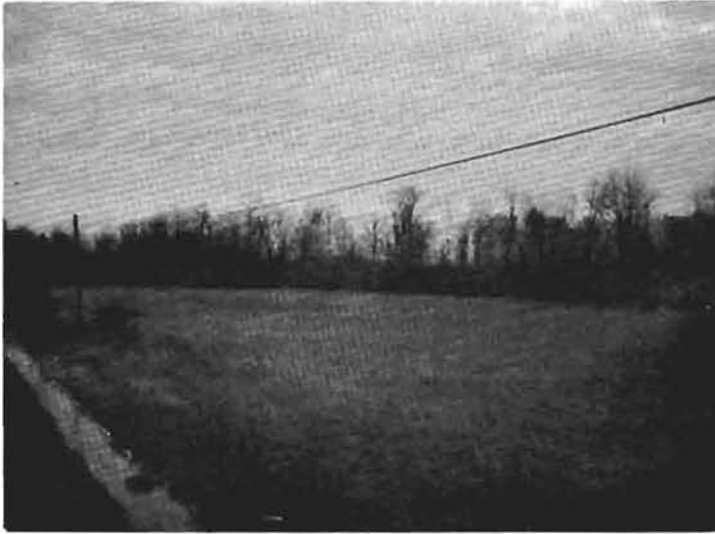
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 19.9 | -129.0 | | -7.4 | 0.8 | | 140.7 | 44.7 |
| (HLLS, 30, 50,V,V, P,2) | 19.9 | -123.7 | | -5.5 | 0.9 | | 137.2 | 41.2 |
| (HLLS, 30, 50,V,V,AV,1) | 19.9 | -129.8 | | -7.4 | 0.8 | | 141.5 | 45.5 |
| (HLLS, 30, 50,V,V,AV,2) | 19.9 | -123.0 | | -5.5 | 0.9 | | 136.5 | 40.5 |
| (HLLS, 30, 50,V,V,AH,1) | 19.9 | -130.2 | | -7.4 | 0.8 | | 141.9 | 45.9 |
| (HLLS, 30, 50,V,V,AH,2) | 19.9 | -124.9 | | -5.5 | 0.9 | | 138.4 | 42.4 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -134.7 | 7.6 | -8.9 | 1.4 | 2.7 | 149.3 | 47.3 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -129.0 | 7.6 | -3.5 | 1.4 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -126.1 | 7.6 | -6.6 | 1.4 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -132.9 | 7.6 | -8.9 | 1.4 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -3.5 | 1.4 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -128.1 | 7.6 | -6.6 | 1.4 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -135.4 | 7.6 | -8.9 | 1.4 | 2.7 | 150.0 | 48.0 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -129.8 | 7.6 | -3.5 | 1.4 | 2.7 | 149.8 | 47.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -127.5 | 7.6 | -6.6 | 1.4 | 2.7 | 144.4 | 42.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -132.4 | 9.4 | -4.8 | 1.3 | 2.7 | 153.0 | 51.0 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -124.1 | 9.4 | -5.2 | 1.3 | 2.7 | 144.3 | 42.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -121.4 | 9.4 | -5.3 | 1.3 | 2.7 | 141.5 | 39.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -129.0 | 9.4 | -4.8 | 1.3 | 2.7 | 149.6 | 47.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -121.2 | 9.4 | -5.2 | 1.3 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -119.9 | 9.4 | -5.3 | 1.3 | 2.7 | 140.0 | 38.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -126.6 | 9.4 | -4.8 | 1.3 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -121.4 | 9.4 | -5.2 | 1.3 | 2.7 | 141.6 | 39.6 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -119.5 | 9.4 | -5.3 | 1.3 | 2.7 | 139.6 | 37.6 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 41
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 41

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-20-64

OPEN FIELD, ROW OF 30FT TREES 300FT AWAY, 20FT TREE 10FT SOUTH,
ORCHARD 30FT NORTH, SCATTERED BUILDINGS 100FT TO NORTH AND SOUTH.

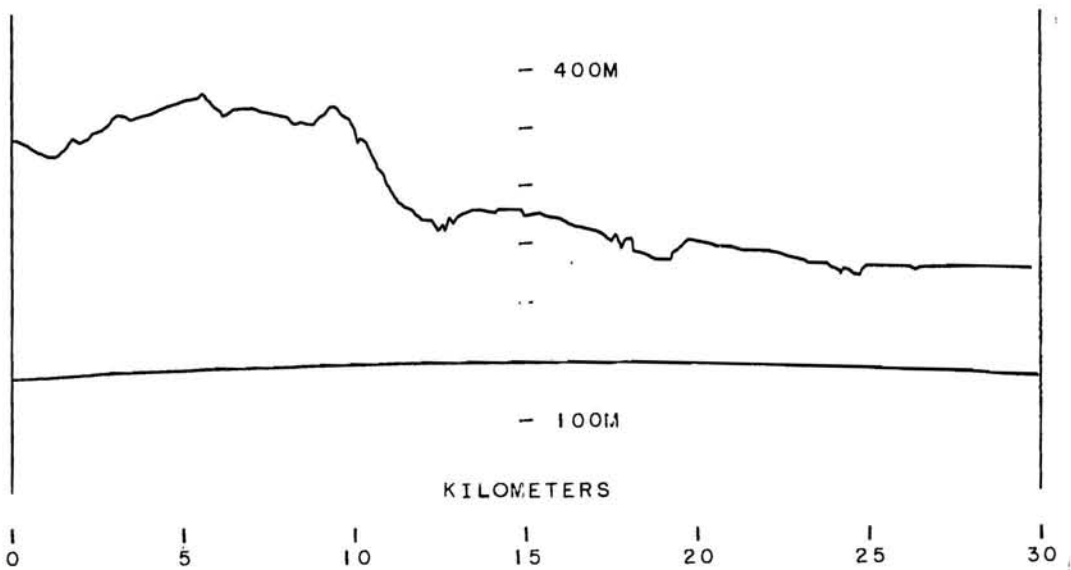
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 19.6 | -130.6 | | -6.8 | | 0.8 | 142.6 | 46.6 |
| (HLLS, 30, 50,V,V, P,2) | 19.6 | -130.6 | | -6.2 | | 0.9 | 143.1 | 47.1 |
| (HLLS, 30, 50,V,V,AV,1) | 19.6 | -130.2 | | -6.8 | | 0.8 | 142.2 | 46.2 |
| (HLLS, 30, 50,V,V,AV,2) | 19.6 | -130.2 | | -6.2 | | 0.9 | 142.7 | 46.7 |
| (HLLS, 30, 50,V,V,AH,1) | 19.6 | -130.6 | | -6.8 | | 0.8 | 142.6 | 46.6 |
| (HLLS, 30, 50,V,V,AH,2) | 19.6 | -130.6 | | -6.2 | | 0.9 | 143.1 | 47.1 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -6.8 | 1.4 | 2.7 | 155.6 | 53.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.0 | 7.6 | -3.6 | 1.4 | 2.7 | 150.9 | 48.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -129.4 | 7.6 | -5.7 | 1.4 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -132.4 | 7.6 | -6.8 | 1.4 | 2.7 | 149.1 | 47.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.4 | 7.6 | -3.6 | 1.4 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.6 | 7.6 | -5.7 | 1.4 | 2.7 | 145.4 | 43.4 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -138.9 | 7.6 | -6.8 | 1.4 | 2.7 | 155.6 | 53.6 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -131.0 | 7.6 | -3.6 | 1.4 | 2.7 | 150.9 | 48.9 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.4 | 7.6 | -5.7 | 1.4 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.0 | 9.4 | -7.7 | 1.3 | 2.7 | 148.7 | 46.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -129.4 | 9.4 | -6.3 | 1.3 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.9 | 9.4 | -6.6 | 1.3 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -133.5 | 9.4 | -7.7 | 1.3 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -129.8 | 9.4 | -6.3 | 1.3 | 2.7 | 148.9 | 46.9 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -128.7 | 9.4 | -6.6 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.0 | 9.4 | -7.7 | 1.3 | 2.7 | 148.7 | 46.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -129.4 | 9.4 | -6.3 | 1.3 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -126.9 | 9.4 | -6.6 | 1.3 | 2.7 | 145.7 | 43.7 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 42
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 42

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-20-64

SITE ON TURNPIKE OVERPASS. TREES 40FT ABOVE ROAD (80FT TOTAL) 70FT
AWAY, HOUSE IN VALLEY 100FT AWAY, WOODS BEYOND.

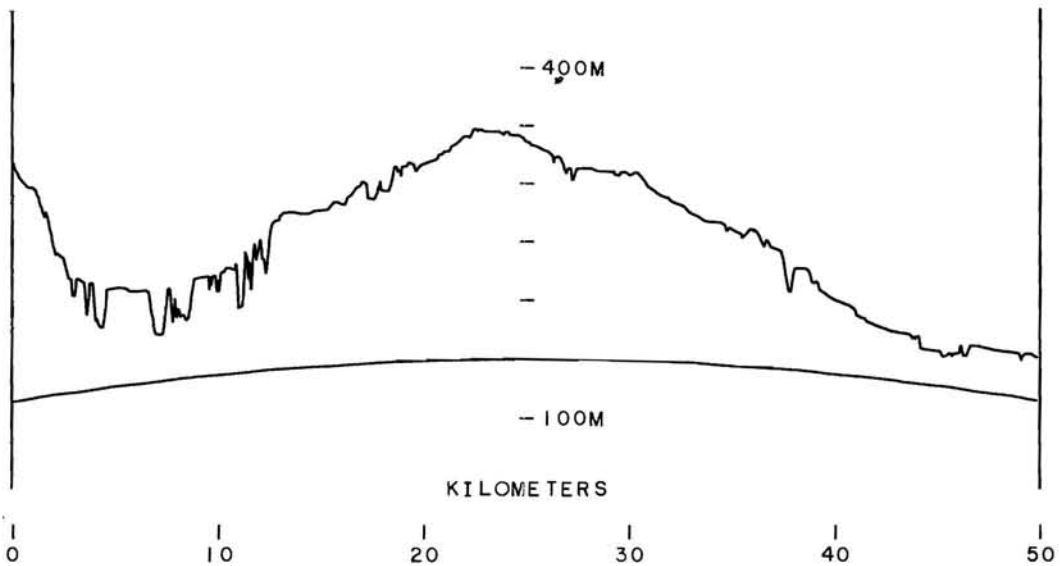
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 19.3 | -130.6 | | -14.9 | 0.8 | | 134.2 | 38.2 |
| (HLLS, 30, 50,V,V, P,2) | 19.3 | -124.3 | | -5.4 | 0.9 | | 137.3 | 41.3 |
| (HLLS, 30, 50,V,V,AV,1) | 19.3 | -130.2 | | -14.9 | 0.8 | | 133.8 | 37.8 |
| (HLLS, 30, 50,V,V,AV,2) | 19.3 | -124.5 | | -5.4 | 0.9 | | 137.5 | 41.5 |
| (HLLS, 30, 50,V,V,AH,1) | 19.3 | -132.9 | | -14.9 | 0.8 | | 136.5 | 40.5 |
| (HLLS, 30, 50,V,V,AH,2) | 19.3 | -124.5 | | -5.4 | 0.9 | | 137.5 | 41.5 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -128.1 | 7.6 | -18.6 | 1.4 | 2.7 | 133.0 | 31.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -124.9 | 7.6 | -8.6 | 1.4 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -122.7 | 7.6 | -6.0 | 1.4 | 2.7 | 140.2 | 38.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -120.4 | 7.6 | -18.6 | 1.4 | 2.7 | 125.3 | 23.3 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -120.1 | 7.6 | -8.6 | 1.4 | 2.7 | 135.0 | 33.0 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -118.8 | 7.6 | -6.0 | 1.4 | 2.7 | 136.3 | 34.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -123.0 | 7.6 | -18.6 | 1.4 | 2.7 | 127.9 | 25.9 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -120.7 | 7.6 | -8.6 | 1.4 | 2.7 | 135.6 | 33.6 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -121.9 | 7.6 | -6.0 | 1.4 | 2.7 | 139.4 | 37.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -125.6 | 9.4 | -2.0 | 1.3 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.1 | 9.4 | -5.3 | 1.3 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -122.8 | 9.4 | -6.0 | 1.3 | 2.7 | 142.2 | 40.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -124.1 | 9.4 | -2.0 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -120.9 | 9.4 | -5.3 | 1.3 | 2.7 | 141.0 | 39.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -117.8 | 9.4 | -6.0 | 1.3 | 2.7 | 137.2 | 35.2 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -122.8 | 9.4 | -2.0 | 1.3 | 2.7 | 146.2 | 44.2 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -124.3 | 9.4 | -5.3 | 1.3 | 2.7 | 144.4 | 42.4 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -117.4 | 9.4 | -6.0 | 1.3 | 2.7 | 136.8 | 34.8 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITE 1
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 1

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-23-64

HOUSES AND 30 TO 50FT TREES 50FT AHEAD TO .5MI AHEAD. LINES 30FT
OVERHEAD BEHIND, LAKE ERIE 100FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 25.6 | -131.9 | | -12.7 | | 0.0 | 144.8 | 52.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.1 | ** | | -8.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 17.1 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -18.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

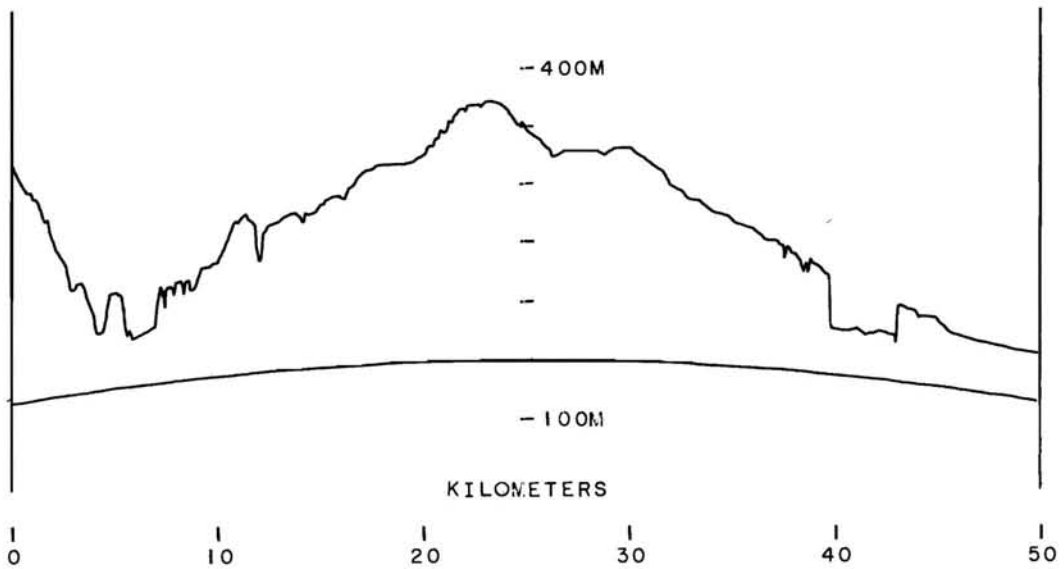
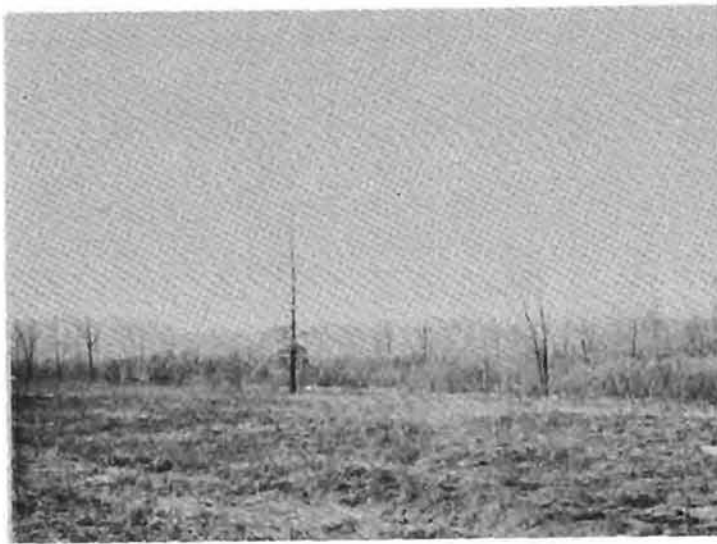
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 2
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 2
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-23-64

40FT PHONE AND ELECTRIC LINES 15FT AHEAD. CLEAR FIELD 300FT, THEN 10
TO 40FT TREES AND BRUSH, CONTINUING TO .5MI. SCATTERED TREES TO LEFT
AND RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 25.1 | -132.9 | | -13.2 | | 0.0 | 144.8 | 52.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.1 | ** | | -14.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.1 | -137.0 | | -4.6 | | 0.9 | 149.6 | 49.2 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -18.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -133.5 | 9.4 | -5.2 | 1.3 | 2.7 | 153.7 | 47.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -133.5 | 9.4 | -6.0 | 1.3 | 2.7 | 152.9 | 46.5 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

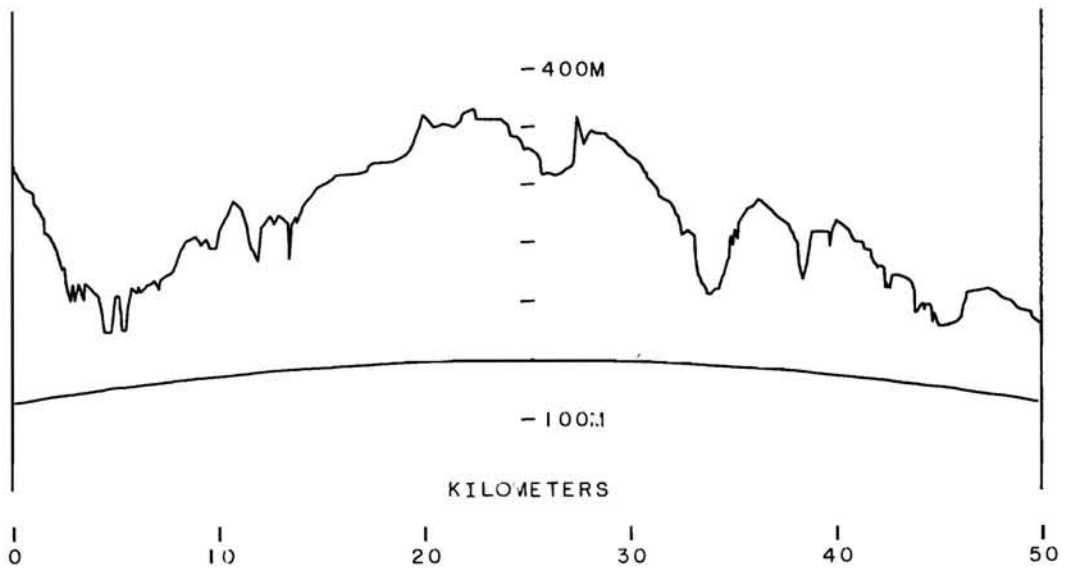
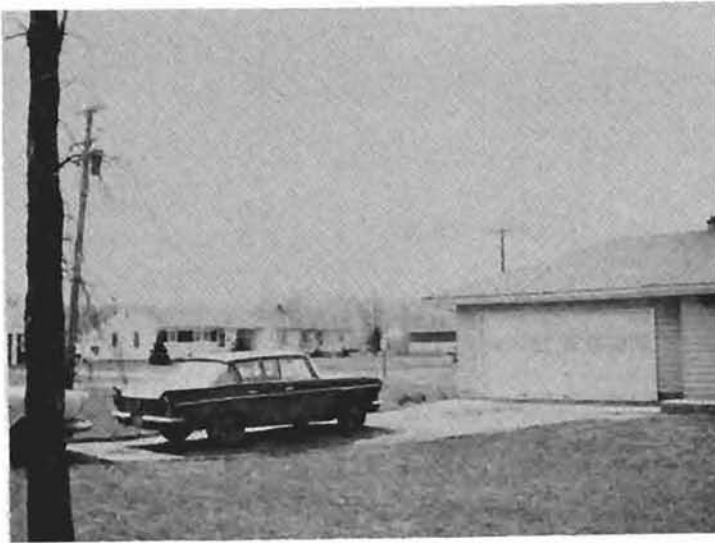
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 3
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 3

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-23-64

40FT WIRES CROSS 200FT AHEAD, HOUSES 100 AND 500FT AHEAD. 20FT
TREES 15FT AHEAD. WOODS BEGIN AT 600FT AND CONTINUE TO HORIZON.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 24.4 | -128.4 | | -5.2 | | 0.0 | 147.6 | 55.2 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.1 | ** | | -7.1 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.1 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -4.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | ** | 7.6 | -2.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -6.2 | 1.4 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -3.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -6.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -137.0 | 9.4 | -7.0 | 1.3 | 2.7 | 155.4 | 49.0 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

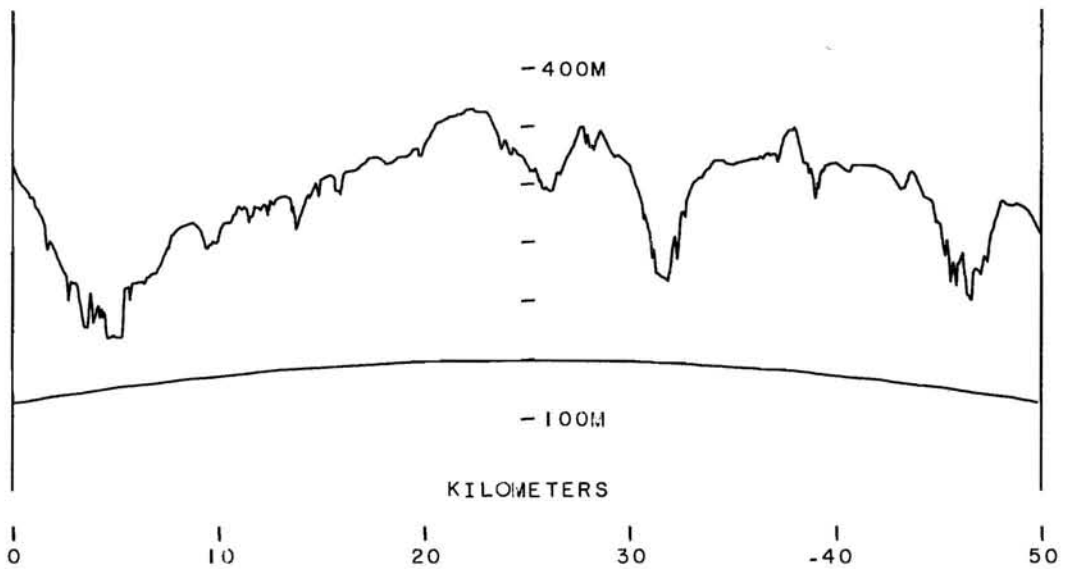
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 4
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 4

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-23-64

ROAD AHEAD WITH 40FT LINES CROSSING AT 300FT AND 40FT TREES ON BOTH SIDES, GOING FOR .7MI, THEN WOODS TO HORIZON. WOODS ALSO TO LEFT, CLEAR TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.9 | -130.2 | | -5.4 | | 0.0 | 148.7 | 56.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 21.2 | ** | | -6.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 21.2 | ** | | -6.2 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -6.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -3.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -7.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

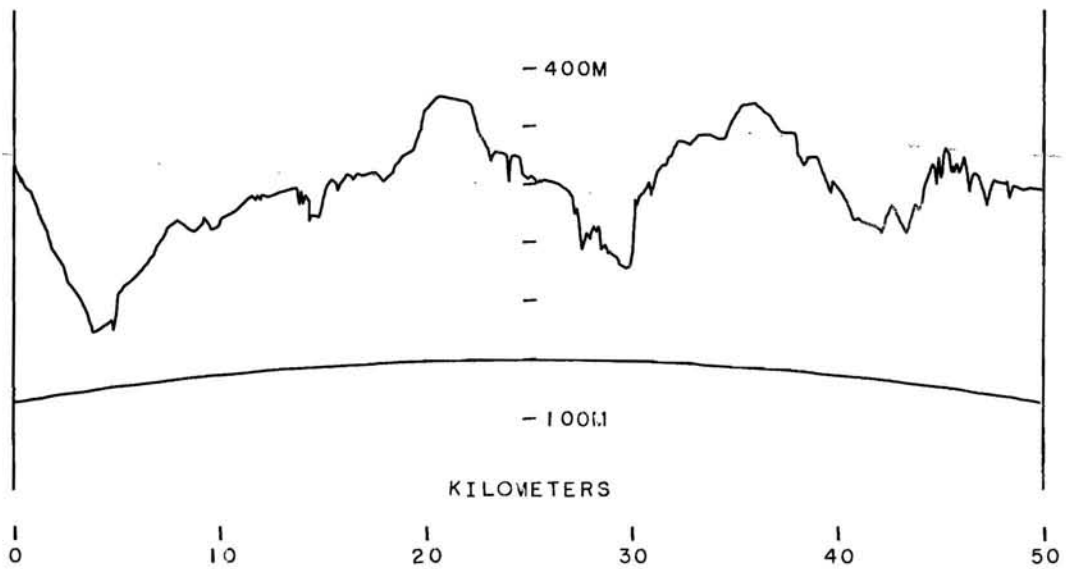
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 5
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 5
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

50FT LINES 100FT AHEAD, HOUSE AND GARAGE 300FT AHEAD, 20FT TREES 400 FT AHEAD. OPEN FIELD FROM 400 TO 1000FT AHEAD, THEN SCATTERED TREES AND WOODS TO HORIZON. ROAD AND LINES TO LEFT, HOUSE TO RIGHT.

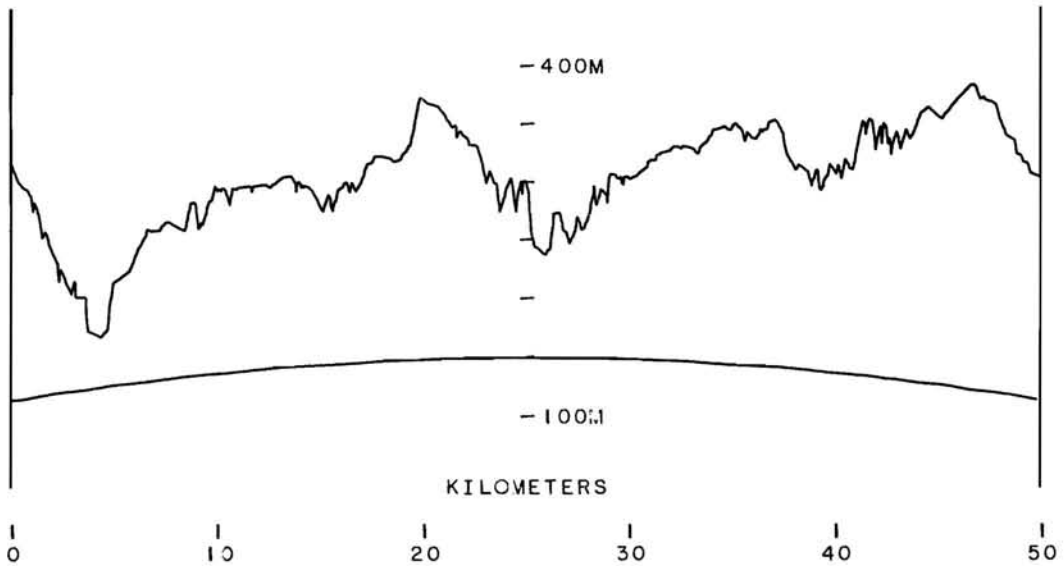
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.5 | -133.5 | | -11.2 | | 0.0 | 145.8 | 53.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 23.5 | -134.0 | | -11.2 | | 0.0 | 146.3 | 53.9 |
| (HLLS, 50, 50,V,V, P,1) | 22.0 | ** | | -8.9 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.0 | -134.7 | | -5.2 | | 0.9 | 150.6 | 50.2 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 22.0 | ** | | -8.9 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 22.0 | -134.0 | | -5.2 | | 0.9 | 149.9 | 49.5 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -1.9 | 1.4 | 2.7 | 153.0 | 46.6 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -4.9 | 1.4 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -137.0 | 7.6 | -1.9 | 1.4 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -133.5 | 7.6 | -4.9 | 1.4 | 2.7 | 152.1 | 45.7 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | -2.5 | 1.3 | 2.7 | 157.6 | 51.2 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -4.9 | 1.3 | 2.7 | 149.5 | 43.1 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -128.1 | 9.4 | -5.8 | 1.3 | 2.7 | 147.7 | 41.3 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -131.4 | 9.4 | -2.5 | 1.3 | 2.7 | 154.3 | 47.9 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -131.4 | 9.4 | -4.9 | 1.3 | 2.7 | 151.9 | 45.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -130.6 | 9.4 | -5.8 | 1.3 | 2.7 | 150.2 | 43.8 |

* NO MEASUREMENT ATTEMPTED
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 6
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 6

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

SMALL BRUSH 20FT AHEAD, CLEAR FIELD FROM 30 TO 300FT AHEAD, THEN WOODS TO HORIZON. ROAD TO RIGHT, WOODS TO LEFT, 40FT LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.9 | -131.9 | | -13.0 | | 0.0 | 141.8 | 49.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.5 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.5 | -133.5 | | -5.5 | | 0.9 | 149.6 | 49.2 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -10.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | ** | 7.6 | -4.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -136.2 | 7.6 | -7.2 | 1.4 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -136.2 | 9.4 | -4.8 | 1.3 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -5.2 | 1.3 | 2.7 | 152.1 | 45.7 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

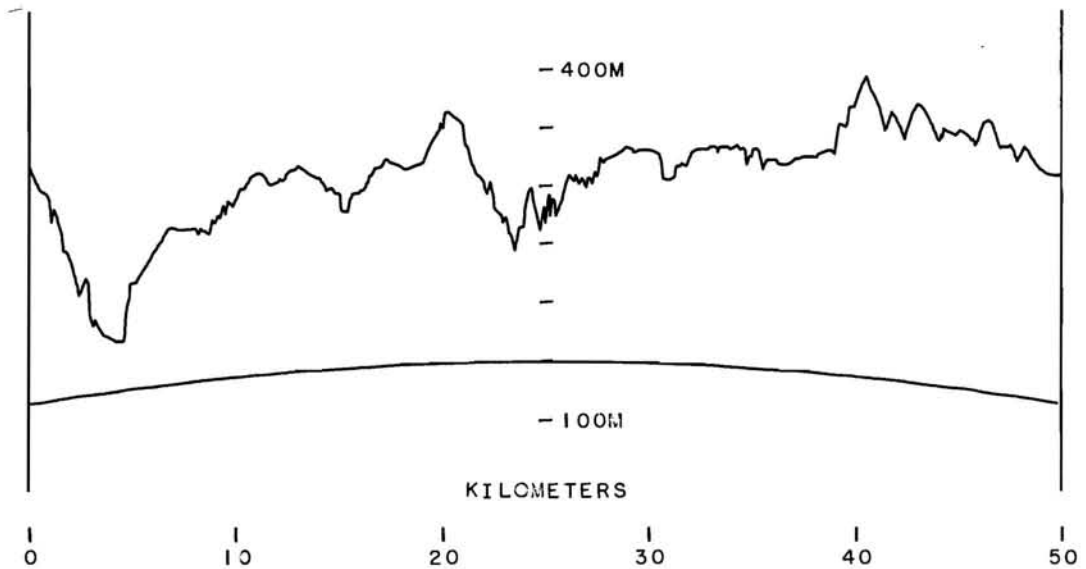
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B = 50KM SITE 7
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 7
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

PHONE CABLES 50FT AHEAD, SCATTERED TREES, SIGNS, AND BRUSH FOR .1MI BEYOND, FOLLOWED BY CLEAR FIELD TO .5MI AND 50FT TREES FROM THERE TO HORIZON. HIGH ELECTRIC LINES BEHIND, ROAD TO FAR RIGHT, WOODS .3MI TO FAR LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.4 | -130.6 | | -13.0 | | 0.0 | 140.0 | 47.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.5 | ** | | -7.5 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.5 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -11.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -5.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -7.2 | 1.4 | 2.7 | 147.7 | 41.3 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.0 | 9.4 | -5.2 | 1.3 | 2.7 | 151.2 | 44.8 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

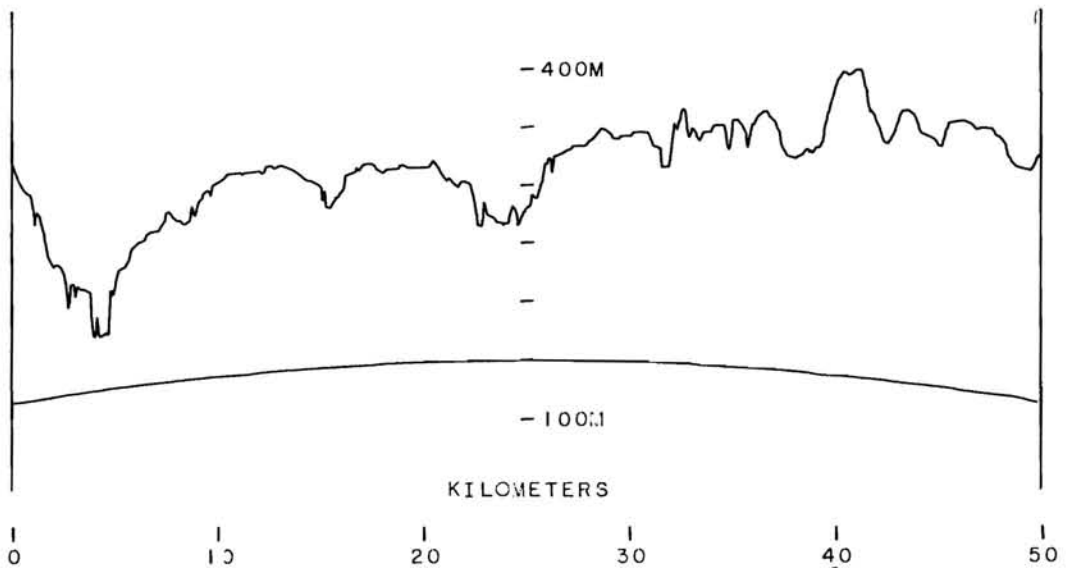
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 8
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 8
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

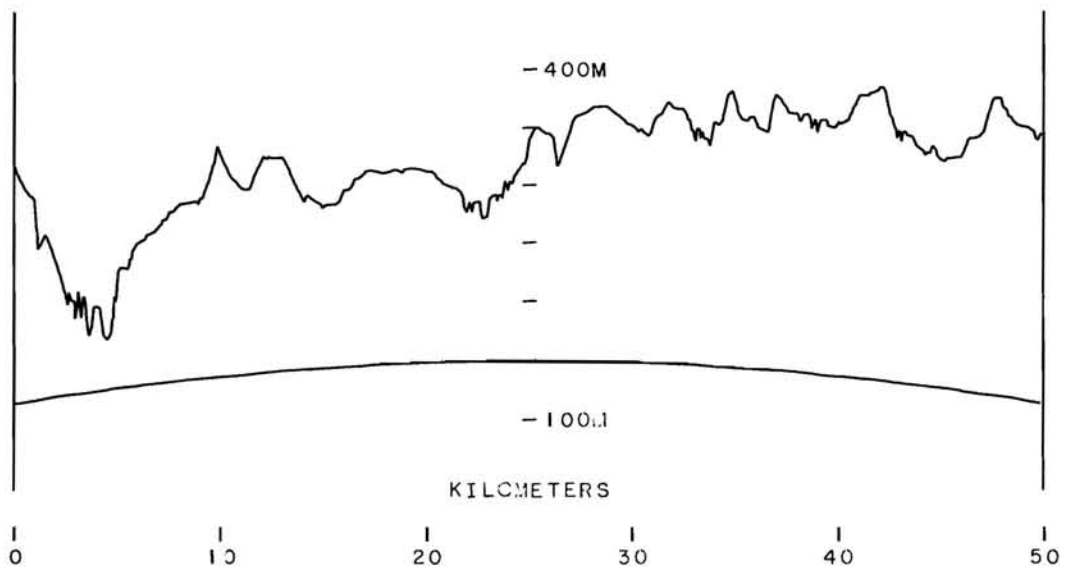
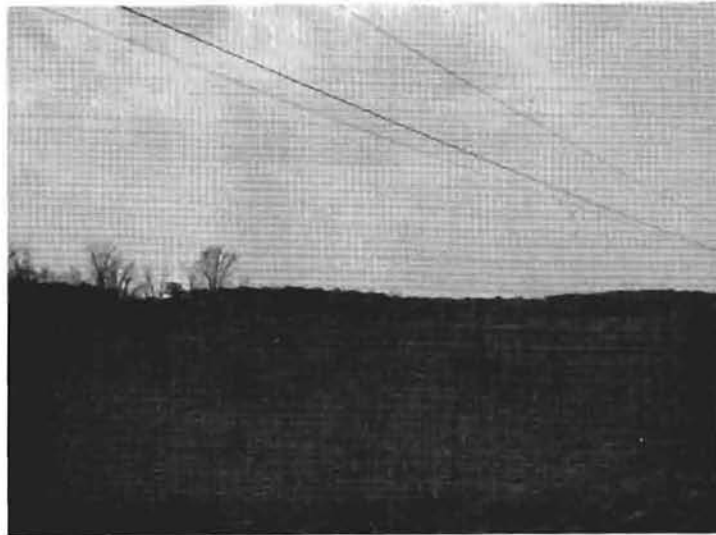
40FT TREES 20FT AHEAD, HOUSE 100FT AHEAD, WOODS 500FT AHEAD, GOING TO
HORIZON. ROAD TO LEFT, WOODS TO RIGHT, LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.2 | -126.9 | | -5.2 | | 0.0 | 143.9 | 51.5 |
| (HLLS, 50, 20,V,V,AV,1) | 22.2 | -127.2 | | -5.2 | | 0.0 | 144.2 | 51.8 |
| (HLLS, 50, 20,V,V,AH,1) | 22.2 | -127.2 | | -5.2 | | 0.0 | 144.2 | 51.8 |
| (HLLS, 50, 50,V,V, P,1) | 22.8 | -138.9 | | -7.5 | | 0.8 | 153.4 | 53.0 |
| (HLLS, 50, 50,V,V, P,2) | 22.8 | -138.9 | | -5.2 | | 0.9 | 155.6 | 55.2 |
| (HLLS, 50, 50,V,V,AV,1) | 22.8 | -141.5 | | -7.5 | | 0.8 | 156.0 | 55.6 |
| (HLLS, 50, 50,V,V,AV,2) | 22.8 | -141.5 | | -5.2 | | 0.9 | 158.2 | 57.8 |
| (HLLS, 50, 50,V,V,AH,1) | 22.8 | -141.5 | | -7.5 | | 0.8 | 156.0 | 55.6 |
| (HLLS, 50, 50,V,V,AH,2) | 22.8 | -141.5 | | -5.2 | | 0.9 | 158.2 | 57.8 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -4.2 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -129.8 | 7.6 | -2.3 | 1.4 | 2.7 | 151.0 | 44.6 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -126.4 | 7.6 | -6.5 | 1.4 | 2.7 | 143.4 | 37.0 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -131.0 | 7.6 | -4.2 | 1.4 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -131.0 | 7.6 | -2.3 | 1.4 | 2.7 | 152.2 | 45.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -131.0 | 7.6 | -6.5 | 1.4 | 2.7 | 148.0 | 41.6 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -131.0 | 7.6 | -4.2 | 1.4 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -131.0 | 7.6 | -2.3 | 1.4 | 2.7 | 152.2 | 45.8 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -131.0 | 7.6 | -6.5 | 1.4 | 2.7 | 148.0 | 41.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -129.0 | 9.4 | -0.1 | 1.3 | 2.7 | 154.3 | 47.9 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -127.5 | 9.4 | -6.3 | 1.3 | 2.7 | 146.6 | 40.2 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -124.5 | 9.4 | -6.8 | 1.3 | 2.7 | 143.1 | 36.7 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -123.7 | 9.4 | -0.1 | 1.3 | 2.7 | 149.0 | 42.6 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -123.7 | 9.4 | -6.3 | 1.3 | 2.7 | 142.8 | 36.4 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -126.4 | 9.4 | -6.8 | 1.3 | 2.7 | 145.0 | 38.6 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -123.7 | 9.4 | -0.1 | 1.3 | 2.7 | 149.0 | 42.6 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -123.7 | 9.4 | -6.3 | 1.3 | 2.7 | 142.8 | 36.4 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -126.4 | 9.4 | -6.8 | 1.3 | 2.7 | 145.0 | 38.6 |

OHIO HILLS B= 50KM SITE 9
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 105MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 9
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

30FT LINES 15FT AHEAD, WOODS BEGIN AT .5MI, GO TO HORIZON. ROAD AND
LINES TO RIGHT, WOODS TO LEFT BEGINNING AT .3MI.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.9 | ** | | -9.7 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.9 | -131.0 | | -5.5 | 0.9 | | 147.5 | 47.1 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -22.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -7.7 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.0 | 7.6 | -6.0 | 1.4 | 2.7 | 154.5 | 48.1 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -4.4 | 1.3 | 2.7 | 159.9 | 53.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -5.3 | 1.3 | 2.7 | 152.0 | 45.6 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

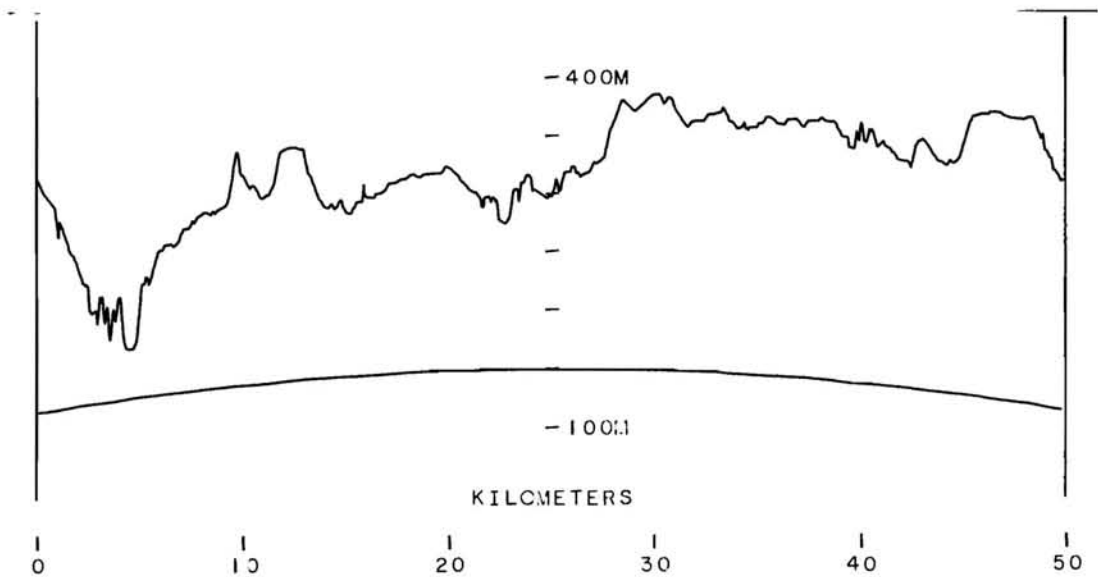
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 10
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 10

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

05-19-64

OPEN ROLLING FIELD FOR 3/4MI TOWARD TRANSMITTER, HEAVY 50FT WOODS BEYOND. SCATTERED TREES 20FT TO RIGHT AND BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.0 | -135.4 | | -5.1 | | 0.0 | 151.3 | 58.9 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.9 | ** | | -4.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.9 | -137.0 | | -3.7 | | 0.9 | 155.3 | 54.9 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -7.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -3.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -3.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -6.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -3.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -3.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

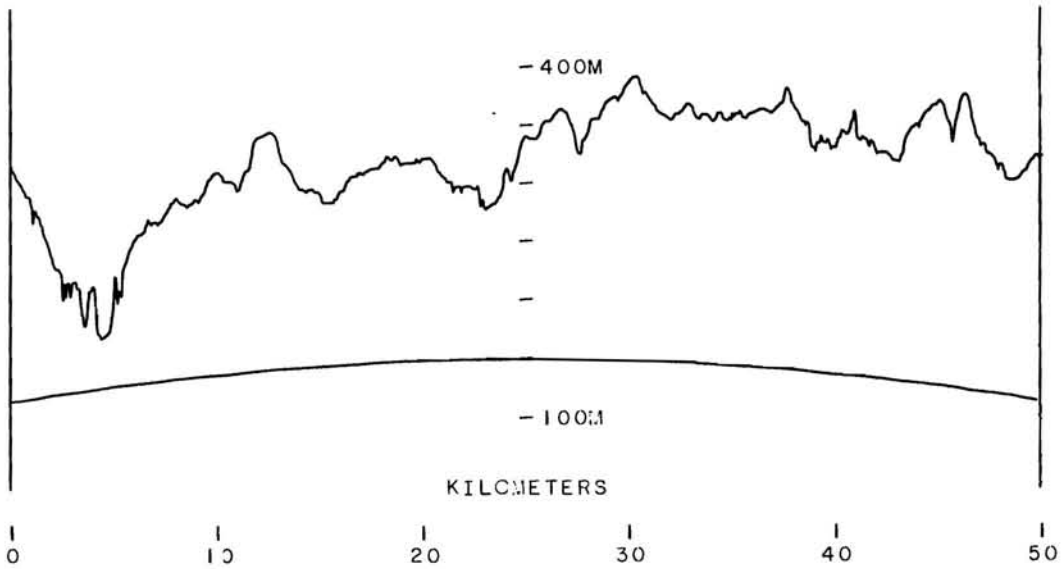
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 11
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 11

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-24-64

100FT AREA OF 50FT TREES 100FT AHEAD, HOUSE 300FT AHEAD, THEN CLEAR
TO SCATTERED TREES AT .5MI, GOING TO HORIZON. ROAD TO RIGHT, WOODS
TO LEFT.

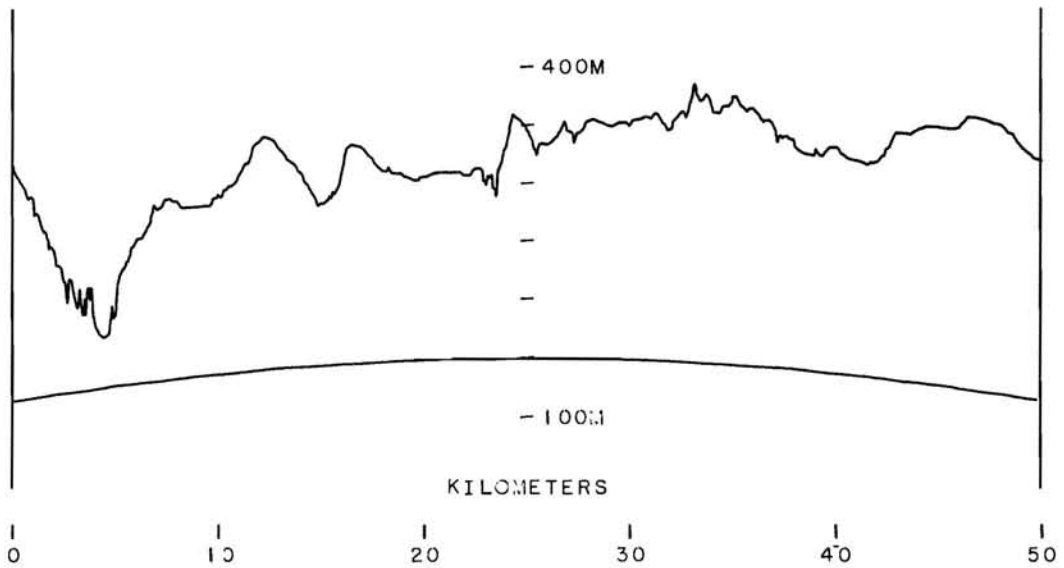
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 20.7 | -131.0 | | -9.4 | | 0.0 | 142.3 | 49.9 |
| (HLLS, 50, 20,V,V,AV,1) | 20.7 | -131.4 | | -9.4 | | 0.0 | 142.7 | 50.3 |
| (HLLS, 50, 20,V,V,AH,1) | 20.7 | -128.4 | | -9.4 | | 0.0 | 139.7 | 47.3 |
| (HLLS, 50, 50,V,V, P,1) | 22.7 | ** | | -11.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.7 | -137.9 | | -5.4 | | 0.9 | 154.3 | 53.9 |
| (HLLS, 50, 50,V,V,AV,1) | 22.7 | ** | | -11.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 22.7 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 22.7 | ** | | -11.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 22.7 | -130.6 | | -5.4 | | 0.9 | 147.0 | 46.6 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -7.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -1.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -2.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -129.0 | 7.6 | -7.0 | 1.4 | 2.7 | 145.5 | 39.1 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -127.5 | 7.6 | -1.2 | 1.4 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -126.4 | 7.6 | -2.8 | 1.4 | 2.7 | 147.1 | 40.7 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -132.4 | 7.6 | -7.0 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -132.4 | 7.6 | -1.2 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -131.0 | 7.6 | -2.8 | 1.4 | 2.7 | 151.7 | 45.3 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -131.4 | 9.4 | -6.5 | 1.3 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -127.2 | 9.4 | -4.5 | 1.3 | 2.7 | 148.1 | 41.7 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -0.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -6.5 | 1.3 | 2.7 | 147.6 | 41.2 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -124.8 | 9.4 | -4.5 | 1.3 | 2.7 | 145.7 | 39.3 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -131.0 | 9.4 | -0.6 | 1.3 | 2.7 | 155.8 | 49.4 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -131.0 | 9.4 | -6.5 | 1.3 | 2.7 | 149.9 | 43.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -126.6 | 9.4 | -4.5 | 1.3 | 2.7 | 147.5 | 41.1 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS R= 50KM SITE 12
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 12

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

40FT LINES 40FT AHEAD, 45FT WOODS BEGIN AT .2MI, GO TO HORIZON.
HOUSE 100FT TO LEFT, CLEAR TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.5 | ** | | -8.9 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.5 | ** | | -7.2 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 22.5 | ** | | -8.9 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 22.5 | ** | | -7.2 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 22.5 | ** | | -8.9 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 22.5 | ** | | -7.2 | 0.9 | ** | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -133.5 | 7.6 | -2.5 | 1.4 | 2.7 | 154.5 | 48.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.4 | 7.6 | -2.4 | 1.4 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -133.5 | 7.6 | -2.5 | 1.4 | 2.7 | 154.5 | 48.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -131.4 | 7.6 | -2.4 | 1.4 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -138.9 | 7.6 | -7.0 | 1.4 | 2.7 | 155.4 | 49.0 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -137.0 | 7.6 | -2.5 | 1.4 | 2.7 | 158.0 | 51.6 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -132.9 | 7.6 | -2.4 | 1.4 | 2.7 | 154.0 | 47.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -133.5 | 9.4 | -2.5 | 1.3 | 2.7 | 156.4 | 50.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -127.5 | 9.4 | -5.0 | 1.3 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -126.4 | 9.4 | -5.1 | 1.3 | 2.7 | 146.7 | 40.3 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -133.5 | 9.4 | -2.5 | 1.3 | 2.7 | 156.4 | 50.0 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -5.0 | 1.3 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -126.4 | 9.4 | -5.1 | 1.3 | 2.7 | 146.7 | 40.3 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -129.0 | 9.4 | -2.5 | 1.3 | 2.7 | 151.9 | 45.5 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -130.2 | 9.4 | -5.0 | 1.3 | 2.7 | 150.6 | 44.2 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -127.5 | 9.4 | -5.1 | 1.3 | 2.7 | 147.8 | 41.4 |

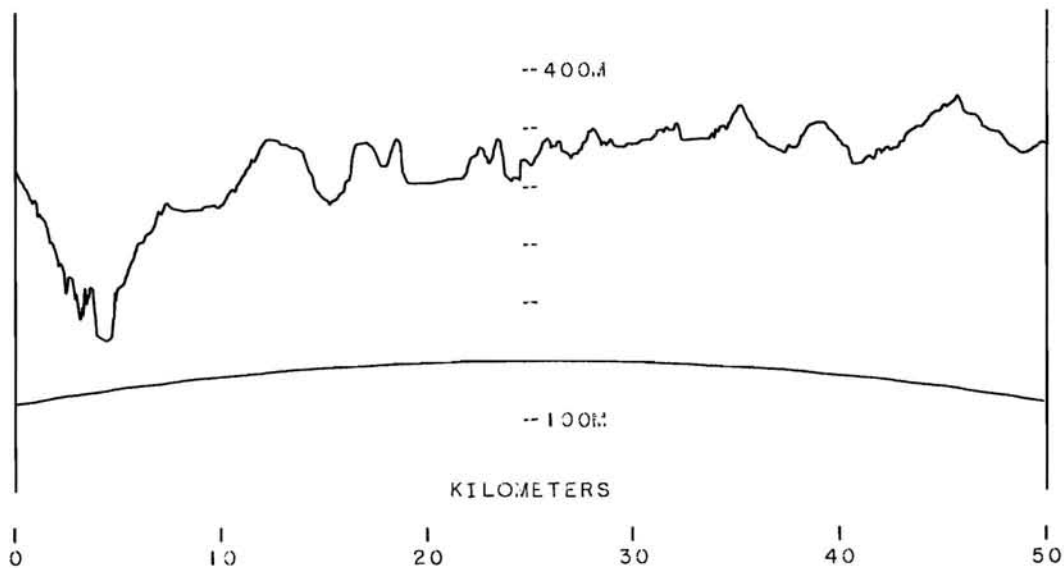
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS H= 50KM SITE 13
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|----------|
| 20MHZ | 50MHZ | ✓ 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 13
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

CLEAR FOR .4MI AHEAD, 50FT LINES 50FT AWAY, 60FT WOODS BEGIN AT .4MI,
GO TO HORIZON. RIGHT AND LEFT CLEAR TO WOODS.

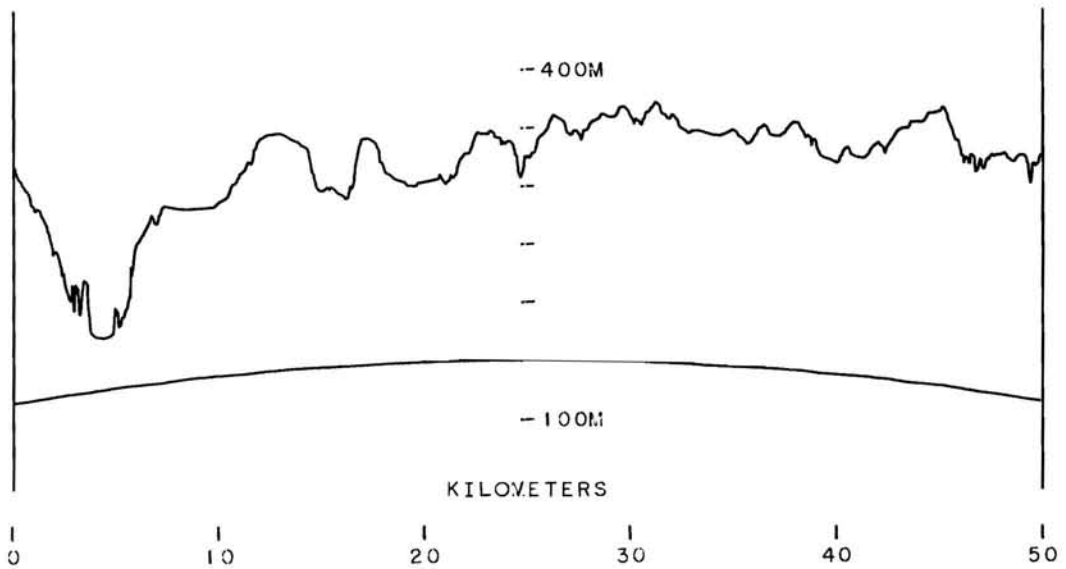
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 50, 50,V,V, P,1) | 22.2 | -136.2 | | -11.7 | 0.8 | | 145.9 | 45.5 |
| (HLLS, 50, 50,V,V, P,2) | 22.2 | -126.4 | | -5.2 | 0.9 | | 142.5 | 42.1 |
| (HLLS, 50, 50,V,V,AV,1) | 22.2 | -136.2 | | -11.7 | 0.8 | | 145.9 | 45.5 |
| (HLLS, 50, 50,V,V,AV,2) | 22.2 | -126.4 | | -5.2 | 0.9 | | 142.5 | 42.1 |
| (HLLS, 50, 50,V,V,AH,1) | 22.2 | -136.2 | | -11.7 | 0.8 | | 145.9 | 45.5 |
| (HLLS, 50, 50,V,V,AH,2) | 22.2 | -126.4 | | -5.2 | 0.9 | | 142.5 | 42.1 |
| | | | | | | | | |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -132.9 | 7.6 | -3.7 | 1.4 | 2.7 | 152.7 | 46.3 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.9 | 7.6 | -6.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -132.9 | 7.6 | -3.7 | 1.4 | 2.7 | 152.7 | 46.3 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -131.9 | 7.6 | -6.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -3.7 | 1.4 | 2.7 | 152.7 | 46.3 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -131.9 | 7.6 | -6.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| | | | | | | | | |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -132.9 | 9.4 | -0.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -6.5 | 1.3 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -125.6 | 9.4 | -6.5 | 1.3 | 2.7 | 144.5 | 38.1 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -132.9 | 9.4 | -0.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -129.0 | 9.4 | -6.5 | 1.3 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -125.6 | 9.4 | -6.5 | 1.3 | 2.7 | 144.5 | 38.1 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -0.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -129.0 | 9.4 | -6.5 | 1.3 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -125.6 | 9.4 | -6.5 | 1.3 | 2.7 | 144.5 | 38.1 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITE 14
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 14
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

CLEAR FOR .3MI AHEAD, SCATTERED TREES AND HOUSE FROM THERE TO .4MI,
THEN CLEAR TO .5MI, SCATTERED TREES AGAIN, TO HORIZON. CORN CRIB 500
FT TO LEFT, SCATTERED TREES .4MI TO RIGHT.

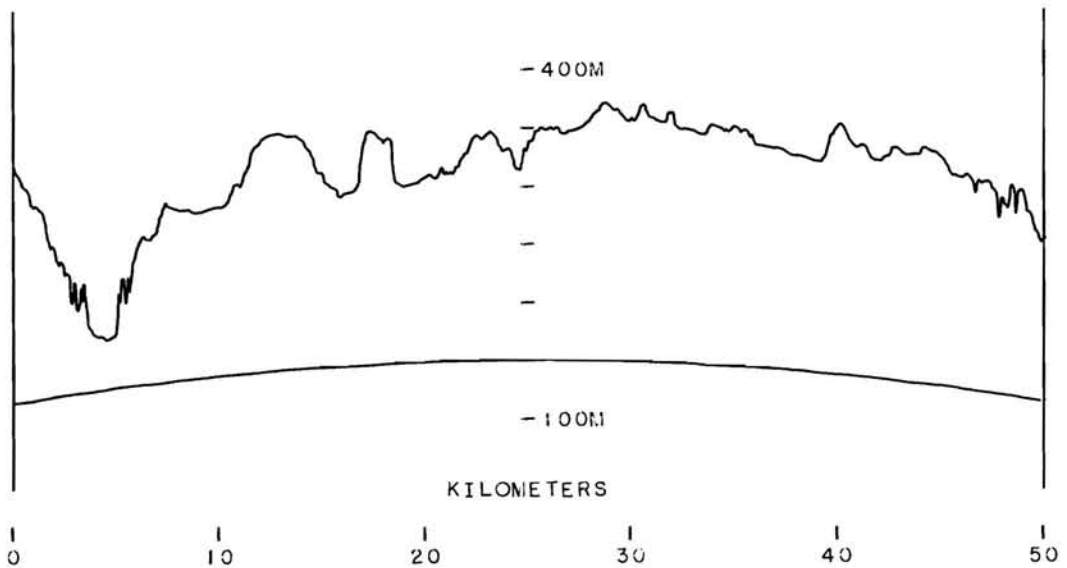
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 50, 50,V,V, P,1) | 22.0 | -131.9 | | -11.8 | 0.8 | | 141.3 | 40.9 |
| (HLLS, 50, 50,V,V, P,2) | 22.0 | -125.6 | | -5.5 | 0.9 | | 141.2 | 40.8 |
| (HLLS, 50, 50,V,V,AV,1) | 22.0 | -137.0 | | -11.8 | 0.8 | | 146.4 | 46.0 |
| (HLLS, 50, 50,V,V,AV,2) | 22.0 | -131.4 | | -5.5 | 0.9 | | 147.0 | 46.6 |
| (HLLS, 50, 50,V,V,AH,1) | 22.0 | -131.9 | | -11.8 | 0.8 | | 141.3 | 40.9 |
| (HLLS, 50, 50,V,V,AH,2) | 22.0 | -125.6 | | -5.5 | 0.9 | | 141.2 | 40.8 |
| | | | | | | | | |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -131.0 | 7.6 | -9.3 | 1.4 | 2.7 | 145.2 | 38.8 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -125.9 | 7.6 | -1.5 | 1.4 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -122.8 | 7.6 | -2.6 | 1.4 | 2.7 | 143.7 | 37.3 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -125.4 | 7.6 | -9.3 | 1.4 | 2.7 | 139.6 | 33.2 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -123.2 | 7.6 | -1.5 | 1.4 | 2.7 | 145.2 | 38.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -120.2 | 7.6 | -2.6 | 1.4 | 2.7 | 141.1 | 34.7 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -131.0 | 7.6 | -9.3 | 1.4 | 2.7 | 145.2 | 38.8 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -125.9 | 7.6 | -1.5 | 1.4 | 2.7 | 147.9 | 41.5 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -122.8 | 7.6 | -2.6 | 1.4 | 2.7 | 143.7 | 37.3 |
| | | | | | | | | |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -129.8 | 9.4 | -0.8 | 1.3 | 2.7 | 154.4 | 48.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -125.9 | 9.4 | -6.6 | 1.3 | 2.7 | 144.7 | 38.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -122.5 | 9.4 | -5.2 | 1.3 | 2.7 | 142.7 | 36.3 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -0.8 | 1.3 | 2.7 | 160.0 | 53.6 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -126.1 | 9.4 | -6.6 | 1.3 | 2.7 | 144.9 | 38.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -122.7 | 9.4 | -5.2 | 1.3 | 2.7 | 142.9 | 36.5 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -129.8 | 9.4 | -0.8 | 1.3 | 2.7 | 154.4 | 48.0 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -125.9 | 9.4 | -6.6 | 1.3 | 2.7 | 144.7 | 38.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -122.5 | 9.4 | -5.2 | 1.3 | 2.7 | 142.7 | 36.3 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITE 15
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 15

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

HOUSE, GARAGE, AND BRUSH 500FT AHEAD, THEN CLEAR TO .3MI, HORIZON IS HILL WITH WOODS BEGINNING AT .3MI. ROAD ON RIGHT, VALLEY AND SCATTERED TREES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | 19.3 | -135.4 | | -13.0 | | 0.0 | 141.7 | 49.3 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 21.7 | ** | | -7.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 21.7 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 21.7 | -137.0 | | -7.8 | | 0.8 | 150.1 | 49.7 |
| (HLLS, 50, 50,V,V,AV,2) | 21.7 | -137.0 | | -5.5 | | 0.9 | 152.3 | 51.9 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -13.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -5.8 | 1.4 | 2.7 | 156.6 | 50.2 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.0 | 7.6 | -6.9 | 1.4 | 2.7 | 153.6 | 47.2 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -137.9 | 7.6 | -13.3 | 1.4 | 2.7 | 148.1 | 41.7 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -134.7 | 7.6 | -5.8 | 1.4 | 2.7 | 152.4 | 46.0 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -132.4 | 7.6 | -6.9 | 1.4 | 2.7 | 149.0 | 42.6 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

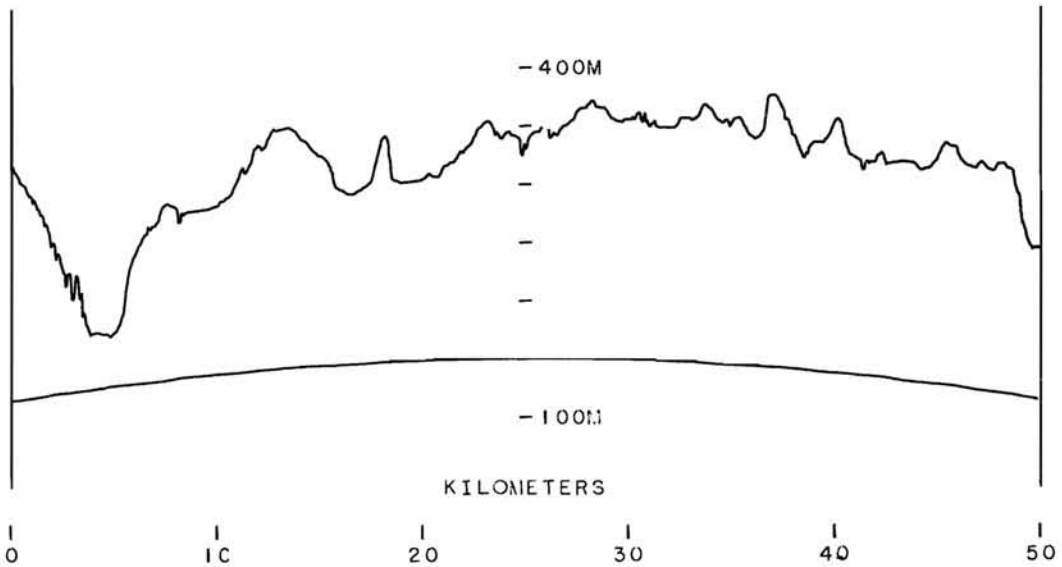
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 16
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 16
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

CLEAR FOR 400FT AHEAD, THEN SCATTERED 60FT TREES, THEN HOUSE AT 500FT
FOLLOWED BY MORE TREES TO HORIZON. 40FT LINES TO RIGHT AND BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.2 | -132.9 | | -13.1 | | 0.0 | 139.0 | 46.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 21.7 | ** | | -7.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 21.7 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -3.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -1.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -141.5 | 9.4 | -3.3 | 1.3 | 2.7 | 163.6 | 57.2 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -3.9 | 1.3 | 2.7 | 160.4 | 54.0 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

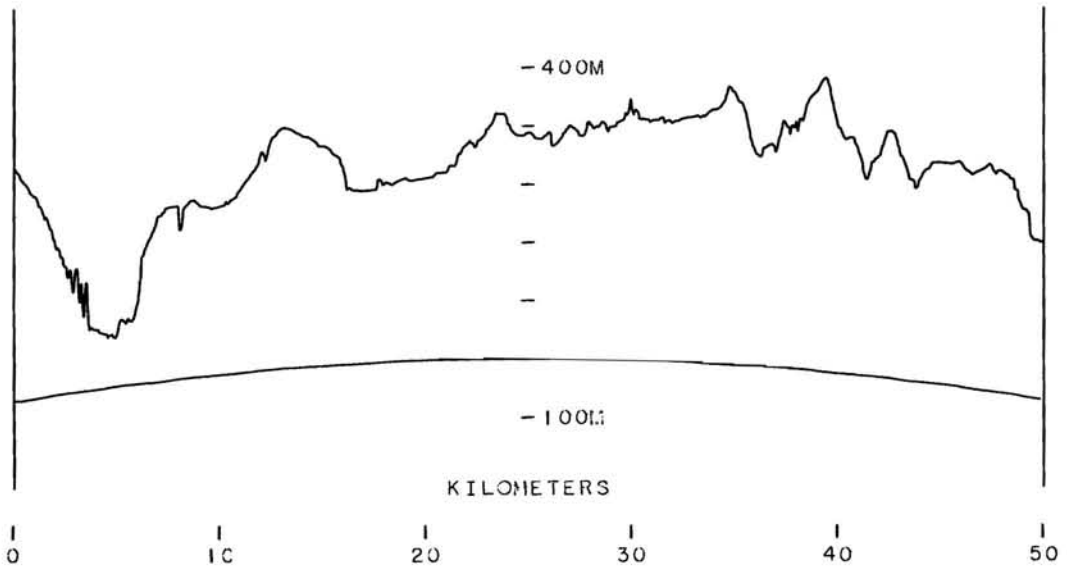
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 17
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 17

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-25-64

CLEAR FOR .3MI AHEAD, WOODS AND LEDGES AT .5MI. 40FT LINES 15FT TO LEFT OVERHEAD, WOODS AND LEDGES BEGIN AT .5MI TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.8 | ** | | -7.5 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.8 | ** | | -5.5 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -11.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | ** | 7.6 | -5.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -5.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -4.6 | 1.3 | 2.7 | 157.8 | 51.4 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -131.4 | 9.4 | -5.2 | 1.3 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

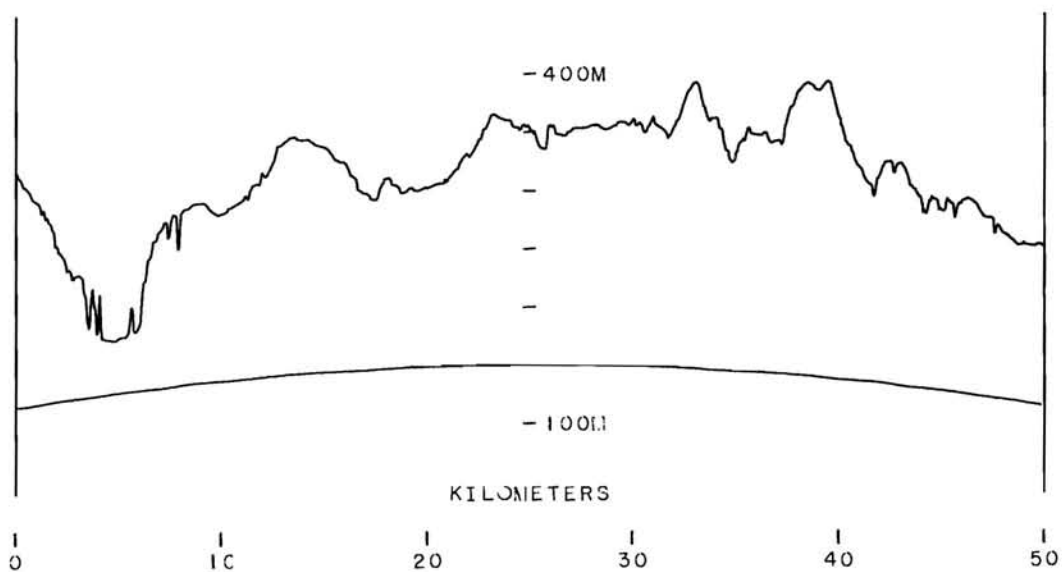
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 18
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 18

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-26-64

30FT TREE AND BUILDING 30FT AHEAD, CLEAR BETWEEN 100 AND 1000FT AHEAD THEN TREES AND BUILDINGS AND RISING TERRAIN TO HORIZON. OVERHEAD 30 AND 50FT LINES BETWEEN 50 AND 200FT TO LEFT, BARN AND MORE LINES 100 FT TO LEFT, ROAD ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | 19.0 | -138.9 | | -13.1 | | 0.0 | 144.8 | 52.4 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.5 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.5 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 20.5 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 20.5 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -11.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -7.2 | 1.4 | 2.7 | 155.2 | 48.8 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -11.0 | 1.4 | 2.7 | 151.4 | 45.0 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -138.9 | 7.6 | -4.9 | 1.4 | 2.7 | 157.5 | 51.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -137.0 | 7.6 | -7.2 | 1.4 | 2.7 | 153.3 | 46.9 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -141.5 | 9.4 | -4.7 | 1.3 | 2.7 | 162.2 | 55.8 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

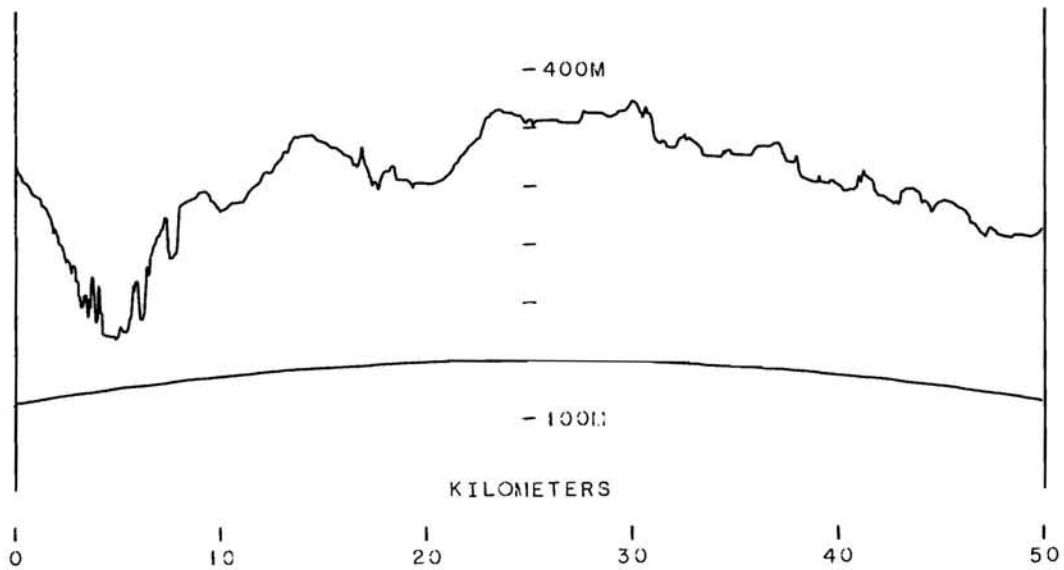
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 19
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 19
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-26-64

ROAD WITH 40FT LINES ON BOTH SIDES AHEAD; 60FT TREES ALSO ALONG ROAD;
BEGINNING AT .2MI, GOING TO HORIZON. SCATTERED 30FT TREES 150FT TO
LEFT, HOUSE 100FT TO LEFT, CLEAR FOR .1MI TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.9 | -137.9 | | -13.1 | | 0.0 | 144.7 | 52.3 |
| (HLLS, 50, 20,V,V,AV,1) | 19.9 | -137.9 | | -13.1 | | 0.0 | 144.7 | 52.3 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.0 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.0 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 18.0 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 18.0 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | -133.5 | 7.6 | -10.5 | 1.4 | 2.7 | 146.5 | 40.1 |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | -129.0 | 7.6 | -4.7 | 1.4 | 2.7 | 147.8 | 41.4 |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -7.2 | 1.4 | 2.7 | 143.8 | 37.4 |
| (HLLS, 50, 100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -10.5 | 1.4 | 2.7 | 146.5 | 40.1 |
| (HLLS, 50, 100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -4.7 | 1.4 | 2.7 | 147.8 | 41.4 |
| (HLLS, 50, 100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -7.2 | 1.4 | 2.7 | 143.8 | 37.4 |
| (HLLS, 50, 100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -10.5 | 1.4 | 2.7 | 146.5 | 40.1 |
| (HLLS, 50, 100,V,V,AH,6) | 20.0 | -129.4 | 7.6 | -4.7 | 1.4 | 2.7 | 148.2 | 41.8 |
| (HLLS, 50, 100,V,V,AH,9) | 20.0 | -129.4 | 7.6 | -7.2 | 1.4 | 2.7 | 145.7 | 39.3 |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | -134.0 | 9.4 | -5.4 | 1.3 | 2.7 | 154.0 | 47.6 |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -125.4 | 9.4 | -4.8 | 1.3 | 2.7 | 146.0 | 39.6 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -122.7 | 9.4 | -5.2 | 1.3 | 2.7 | 142.9 | 36.5 |
| (HLLS, 50, 100,H,H,AV,3) | 20.0 | -134.0 | 9.4 | -5.4 | 1.3 | 2.7 | 154.0 | 47.6 |
| (HLLS, 50, 100,H,H,AV,6) | 20.0 | -125.4 | 9.4 | -4.8 | 1.3 | 2.7 | 146.0 | 39.6 |
| (HLLS, 50, 100,H,H,AV,9) | 20.0 | -122.7 | 9.4 | -5.2 | 1.3 | 2.7 | 142.9 | 36.5 |
| (HLLS, 50, 100,H,H,AH,3) | 20.0 | -129.4 | 9.4 | -5.4 | 1.3 | 2.7 | 149.4 | 43.0 |
| (HLLS, 50, 100,H,H,AH,6) | 20.0 | -125.9 | 9.4 | -4.8 | 1.3 | 2.7 | 146.5 | 40.1 |
| (HLLS, 50, 100,H,H,AH,9) | 20.0 | -121.7 | 9.4 | -5.2 | 1.3 | 2.7 | 141.9 | 35.5 |

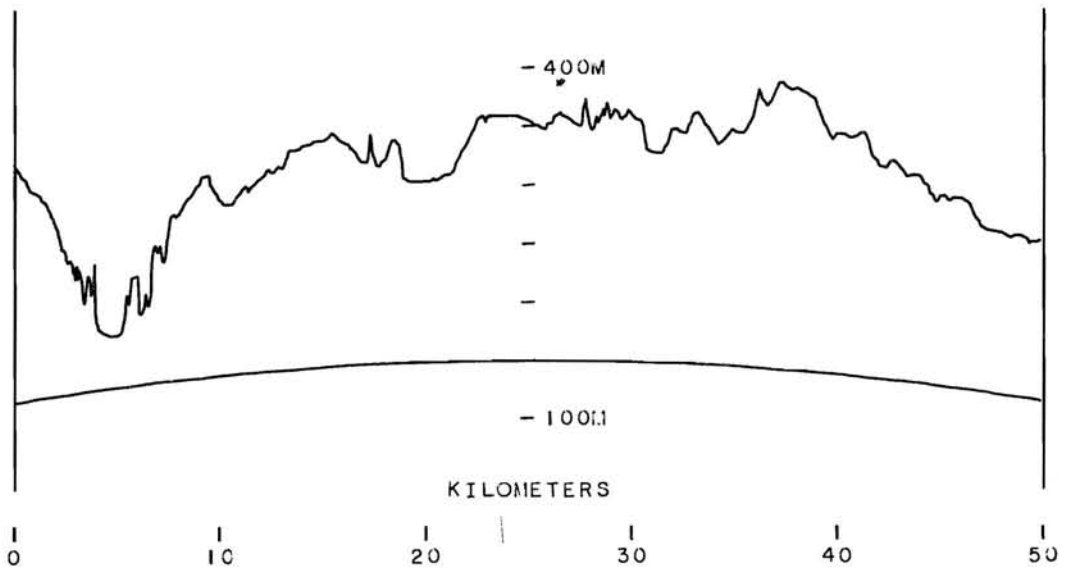
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 20
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 20
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-26-64

60FT TREE TO FRONT RIGHT ABOUT 50FT. ROAD 100FT AHEAD, WITH 20FT
PHONE LINES ALONGSIDE, AND SCATTERED TREES AND BUILDINGS BEYOND. ROW
OF 60FT TREES TO RIGHT OF ROAD, HOUSE AND SMALL SCATTERED TREES 100FT
TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 19.6 | ** | | -7.3 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 19.6 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -9.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -7.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -129.8 | 9.4 | -4.8 | 1.3 | 2.7 | 150.4 | 44.0 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -127.2 | 9.4 | -5.3 | 1.3 | 2.7 | 147.3 | 40.9 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

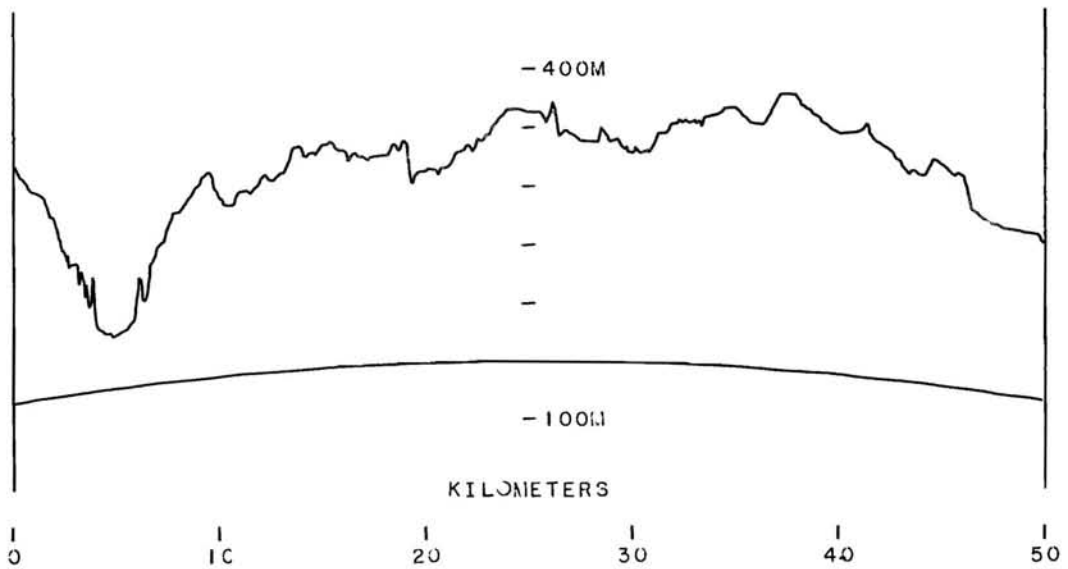
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 21
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO MILLS B= 50KM SITE 21

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-26-64

CLEAR FIELD FOR 1/4MI AHEAD AND LEFT; THEN WATER TOWER AND SCATTERED
70FT TREES. 40FT POWER LINES 75FT ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 20,V,V,AM,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.8 | ** | | -11.2 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.8 | ** | | -6.1 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AM,1) | 18.8 | ** | | -11.2 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AM,2) | 18.8 | ** | | -6.1 | 0.9 | | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -13.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -2.6 | 1.4 | 2.7 | 159.8 | 53.4 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AM,3) | 20.0 | -143.0 | 7.6 | -13.2 | 1.4 | 2.7 | 153.3 | 46.9 |
| (HLLS, 50,100,V,V,AM,6) | 20.0 | -143.0 | 7.6 | -2.4 | 1.4 | 2.7 | 164.1 | 57.7 |
| (HLLS, 50,100,V,V,AM,9) | 20.0 | -140.1 | 7.6 | -2.6 | 1.4 | 2.7 | 161.0 | 54.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -1.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -143.0 | 9.4 | -6.4 | 1.3 | 2.7 | 162.0 | 55.6 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.8 | 1.3 | 2.7 | 158.5 | 52.1 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AM,3) | 20.0 | -142.2 | 9.4 | -1.7 | 1.3 | 2.7 | 165.9 | 59.5 |
| (HLLS, 50,100,H,H,AM,6) | 20.0 | -139.5 | 9.4 | -6.4 | 1.3 | 2.7 | 158.5 | 52.1 |
| (HLLS, 50,100,H,H,AM,9) | 20.0 | -137.9 | 9.4 | -5.8 | 1.3 | 2.7 | 157.5 | 51.1 |

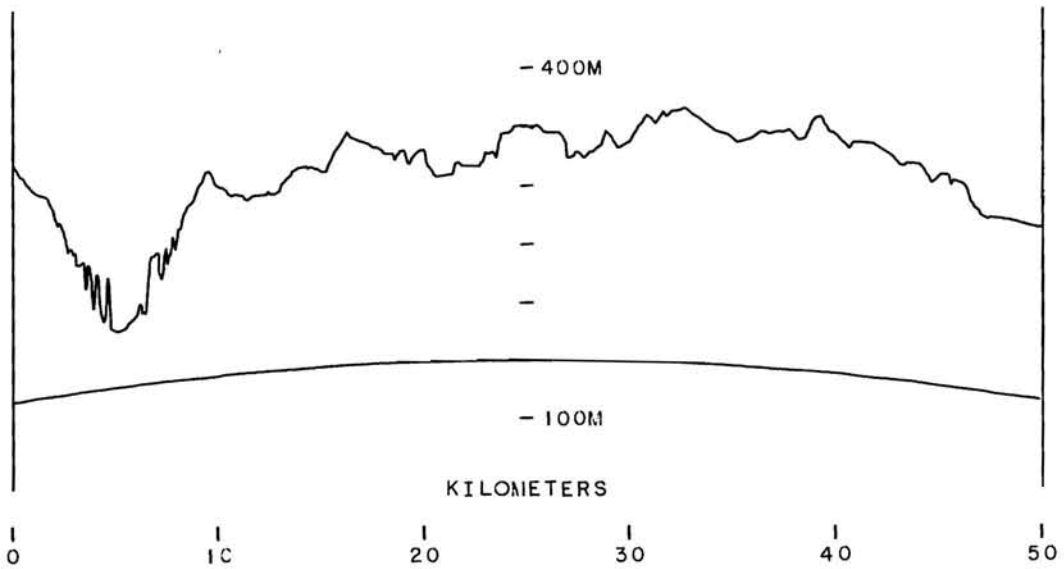
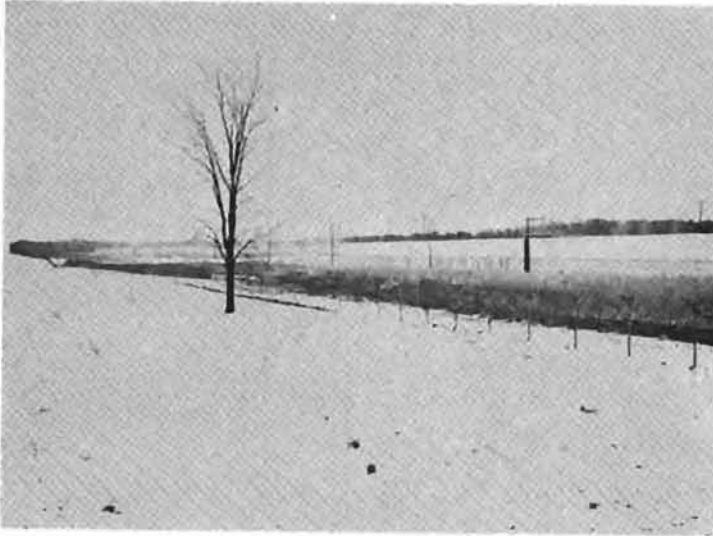
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B = 50KM SITE 22
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 22
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-30-64

20FT ARSENAL BUILDINGS 500FT TO RIGHT FRONT, WATER TOWER 1/4MI AHEAD,
40FT POWER LINES, RUNNING NORTH-SOUTH, 500FT AHEAD, 60FT TREE AHEAD.

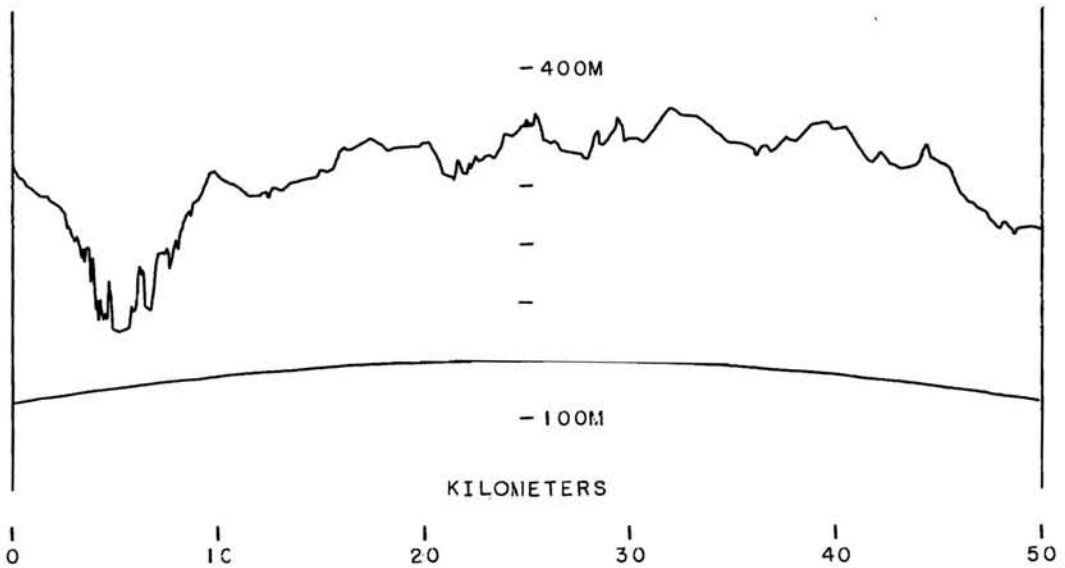
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 20.5 | -128.7 | | -5.1 | | 0.0 | 144.1 | 51.7 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.4 | -125.6 | | -7.6 | | 0.8 | 134.6 | 34.2 |
| (HLLS, 50, 50,V,V, P,2) | 17.4 | -125.9 | | -5.2 | | 0.9 | 137.2 | 36.8 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -142.2 | 7.6 | -4.2 | 1.4 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -138.4 | 7.6 | -2.2 | 1.4 | 2.7 | 159.7 | 53.3 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -135.4 | 7.6 | -6.4 | 1.4 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -141.5 | 9.4 | -0.6 | 1.3 | 2.7 | 166.3 | 59.9 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -136.6 | 9.4 | -6.2 | 1.3 | 2.7 | 155.8 | 49.4 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -7.0 | 1.3 | 2.7 | 153.1 | 46.7 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITE 23
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 23

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

CLEAR FIELD FOR 300FT AHEAD, THEN 60FT TREES BEYOND, 30FT POWER LINES
25FT AHEAD, RUNNING EAST-WEST, 20FT PHONE LINES 10FT BEHIND, FRAME
HOUSE AND BUILDING .1MI ON LEFT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 20.6 | -135.4 | | -10.0 | | 0.0 | 146.0 | 53.6 |
| (HLLS, 50, 20,V,V,AV,1) | 20.6 | -135.4 | | -10.0 | | 0.0 | 146.0 | 53.6 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.2 | -137.0 | | -10.6 | | 0.8 | 142.8 | 42.4 |
| (HLLS, 50, 50,V,V, P,2) | 17.2 | -143.0 | | -5.2 | | 0.9 | 154.1 | 53.7 |
| (HLLS, 50, 50,V,V,AV,1) | 17.2 | -137.0 | | -10.6 | | 0.8 | 142.8 | 42.4 |
| (HLLS, 50, 50,V,V,AV,2) | 17.2 | -143.0 | | -5.2 | | 0.9 | 154.1 | 53.7 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -6.0 | 1.4 | 2.7 | 159.0 | 52.6 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -137.0 | 7.6 | -1.3 | 1.4 | 2.7 | 159.2 | 52.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -136.2 | 7.6 | -3.6 | 1.4 | 2.7 | 156.1 | 49.7 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -141.5 | 7.6 | -6.0 | 1.4 | 2.7 | 159.0 | 52.6 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -137.0 | 7.6 | -1.3 | 1.4 | 2.7 | 159.2 | 52.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -136.2 | 7.6 | -3.6 | 1.4 | 2.7 | 156.1 | 49.7 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -0.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -4.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

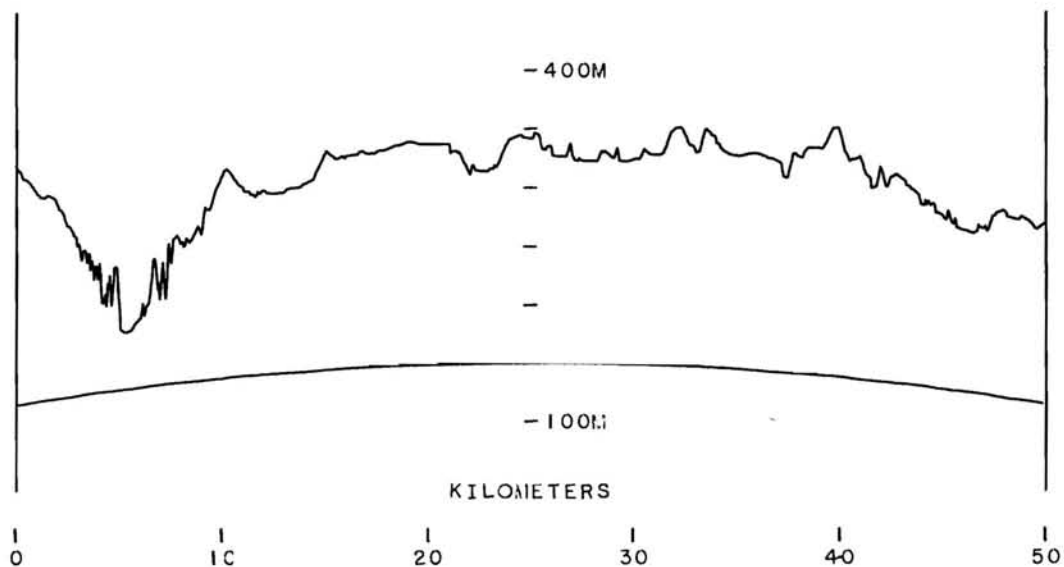
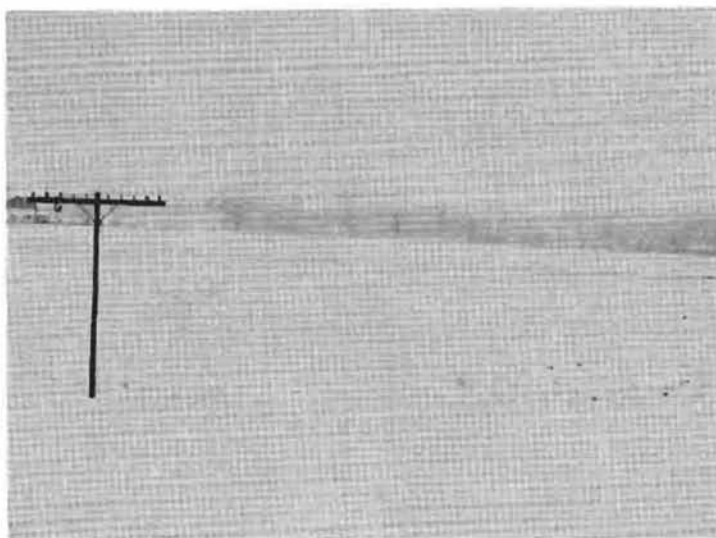
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 24

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 24

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

CLEAR FIELD FOR .1MI AHEAD, 60 TO 80FT TREES BEYOND, 25FT POWER LINES
10FT AWAY, RUNNING EAST-WEST. 15FT PHONE LINES 20FT BEHIND, FARM
BUILDINGS .1MI TO LEFT FRONT, 60 TO 80FT WOODS AT .1MI ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.6 | -137.0 | | -5.4 | | 0.0 | 153.2 | 60.8 |
| (HLLS, 50, 20,V,V,AV,1) | 21.6 | -137.0 | | -5.4 | | 0.0 | 153.2 | 60.8 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 21.2 | -135.4 | | -6.9 | | 0.8 | 148.9 | 48.5 |
| (HLLS, 50, 50,V,V, P,2) | 21.2 | -136.2 | | -5.5 | | 0.9 | 151.0 | 50.6 |
| (HLLS, 50, 50,V,V,AV,1) | 21.2 | -135.4 | | -6.9 | | 0.8 | 148.9 | 48.5 |
| (HLLS, 50, 50,V,V,AV,2) | 21.2 | -136.2 | | -5.5 | | 0.9 | 151.0 | 50.6 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -6.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -3.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | ** | 7.6 | -6.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | ** | 7.6 | -3.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | ** | 7.6 | -5.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

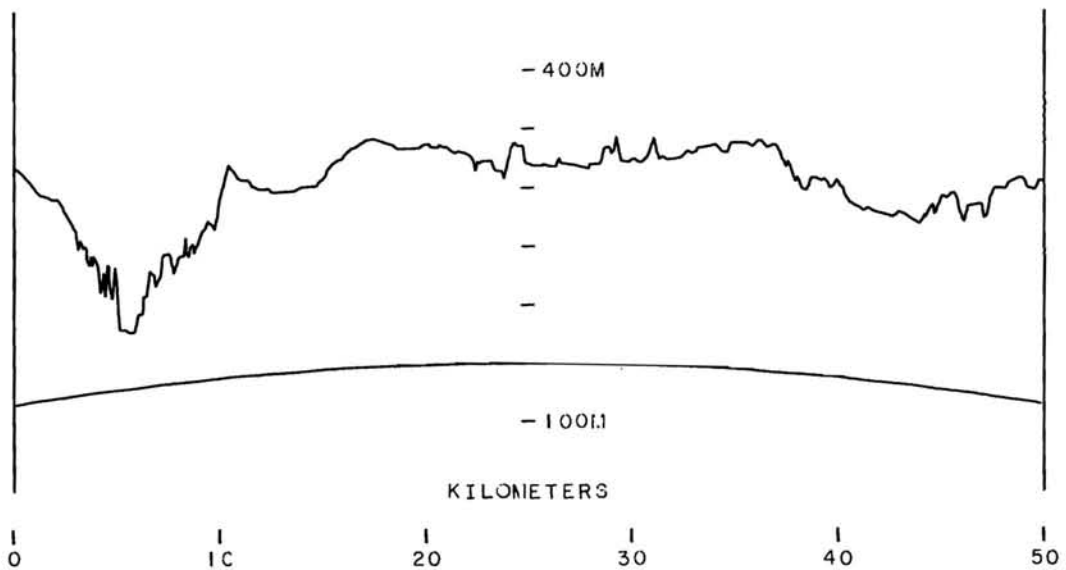
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 25
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 25
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

SCATTERED 10 TO 60FT TREES AND BUILDINGS AHEAD; 40FT POWER LINES 10
FT AHEAD. 20FT PHONE LINES 30FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.9 | -136.2 | | -13.2 | | 0.0 | 144.9 | 52.5 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 21.9 | -136.2 | | -13.2 | | 0.0 | 144.9 | 52.5 |
| (HLLS, 50, 50,V,V, P,1) | 16.0 | -136.2 | | -14.5 | | 0.8 | 136.9 | 36.5 |
| (HLLS, 50, 50,V,V, P,2) | 16.0 | -127.5 | | -5.4 | | 0.9 | 137.2 | 36.8 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 16.0 | -136.2 | | -14.5 | | 0.8 | 136.9 | 36.5 |
| (HLLS, 50, 50,V,V,AH,2) | 16.0 | -127.5 | | -5.4 | | 0.9 | 137.2 | 36.8 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -19.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -132.4 | 7.6 | -8.7 | 1.4 | 2.7 | 147.2 | 40.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -126.6 | 7.6 | -6.0 | 1.4 | 2.7 | 144.1 | 37.7 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -19.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -132.4 | 7.6 | -8.7 | 1.4 | 2.7 | 147.2 | 40.8 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -126.6 | 7.6 | -6.0 | 1.4 | 2.7 | 144.1 | 37.7 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -130.2 | 9.4 | -2.2 | 1.3 | 2.7 | 153.4 | 47.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -124.9 | 9.4 | -5.2 | 1.3 | 2.7 | 145.1 | 38.7 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -121.4 | 9.4 | -5.9 | 1.3 | 2.7 | 140.9 | 34.5 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -130.2 | 9.4 | -2.2 | 1.3 | 2.7 | 153.4 | 47.0 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -124.9 | 9.4 | -5.2 | 1.3 | 2.7 | 145.1 | 38.7 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -121.4 | 9.4 | -5.9 | 1.3 | 2.7 | 140.9 | 34.5 |

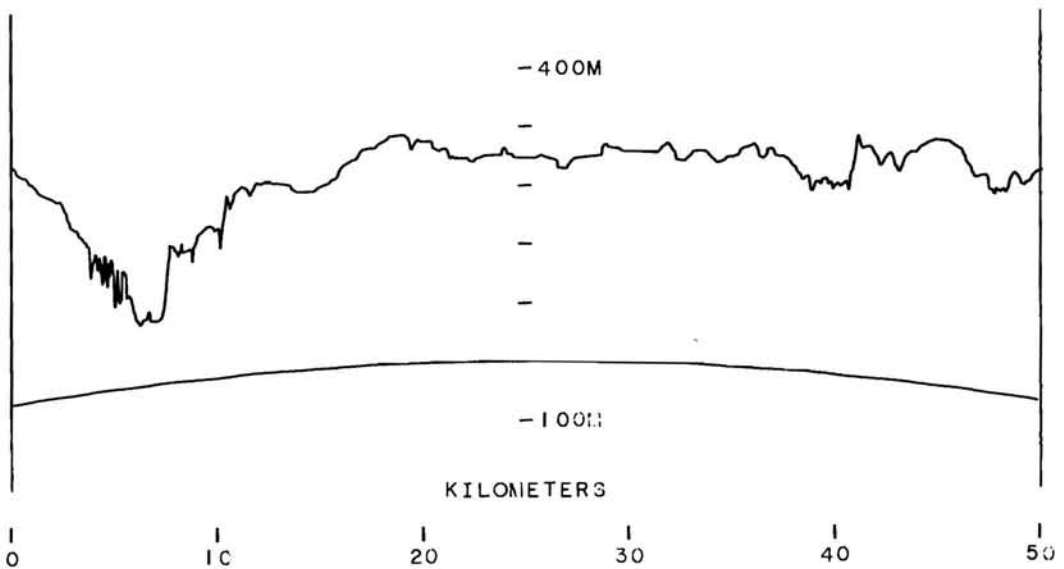
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 26
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 26

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

SCATTERED 60 TO 80FT TREES AHEAD, RIGHT, AND LEFT. 40FT POWER AND
PHONE LINES 5FT BEHIND, POWER LINES CROSS ROAD 10FT ON LEFT, HOUSES
50FT ON RIGHT.

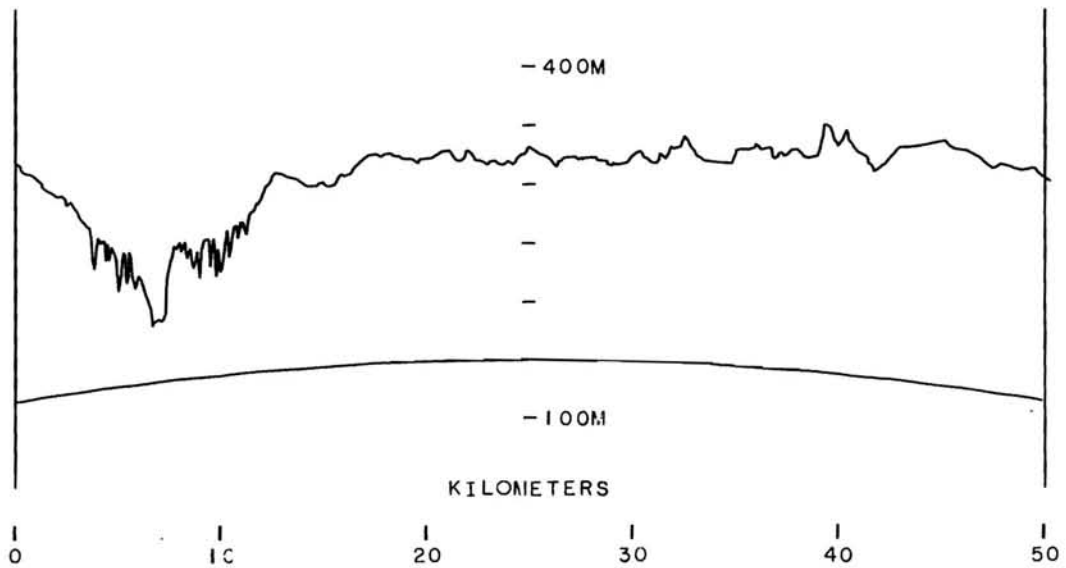
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.5 | -129.8 | | -11.7 | | 0.0 | 140.6 | 48.2 |
| (HLLS, 50, 20,V,V,AV,1) | 22.5 | -129.8 | | -11.7 | | 0.0 | 140.6 | 48.2 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.5 | -133.5 | | -8.3 | | 0.8 | 139.9 | 39.5 |
| (HLLS, 50, 50,V,V, P,2) | 15.5 | -126.9 | | -5.2 | | 0.9 | 136.3 | 35.9 |
| (HLLS, 50, 50,V,V,AV,1) | 15.5 | -133.5 | | -8.3 | | 0.8 | 139.9 | 39.5 |
| (HLLS, 50, 50,V,V,AV,2) | 15.5 | -126.9 | | -5.2 | | 0.9 | 136.3 | 35.9 |
| (HLLS, 50, 50,V,V,AH,1) | 15.5 | -134.0 | | -8.3 | | 0.8 | 140.4 | 40.0 |
| (HLLS, 50, 50,V,V,AH,2) | 15.5 | -130.6 | | -5.2 | | 0.9 | 140.0 | 39.6 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -134.0 | 7.6 | -7.5 | 1.4 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -130.2 | 7.6 | -5.4 | 1.4 | 2.7 | 148.3 | 41.9 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -129.0 | 7.6 | -2.2 | 1.4 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -7.5 | 1.4 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -130.2 | 7.6 | -5.4 | 1.4 | 2.7 | 148.3 | 41.9 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -129.0 | 7.6 | -2.2 | 1.4 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -132.9 | 7.6 | -7.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -128.7 | 7.6 | -5.4 | 1.4 | 2.7 | 146.8 | 40.4 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -126.1 | 7.6 | -2.2 | 1.4 | 2.7 | 147.4 | 41.0 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -136.2 | 9.4 | -3.0 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -129.4 | 9.4 | -5.6 | 1.3 | 2.7 | 149.2 | 42.8 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -125.6 | 9.4 | -5.0 | 1.3 | 2.7 | 146.0 | 39.6 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -136.2 | 9.4 | -3.0 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -129.4 | 9.4 | -5.6 | 1.3 | 2.7 | 149.2 | 42.8 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -125.6 | 9.4 | -5.0 | 1.3 | 2.7 | 146.0 | 39.6 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -130.2 | 9.4 | -3.0 | 1.3 | 2.7 | 152.6 | 46.2 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -125.9 | 9.4 | -5.6 | 1.3 | 2.7 | 145.7 | 39.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -122.2 | 9.4 | -5.0 | 1.3 | 2.7 | 142.6 | 36.2 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITE 27
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 27

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

40FT POWER LINES 10FT AHEAD AND BEHIND, ROW OF 30 TO 40FT TREES 100FT
AHEAD EXTENDING TO .5MI, TREES ALSO ON RIGHT FRONT AT .1MI, 20FT
PHONE LINES AHEAD.

| (T,B,F,P(T),P(R),L,M) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.0 | -136.2 | | -5.2 | | 0.0 | 154.0 | 61.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.4 | -131.9 | | -7.1 | | 0.8 | 139.4 | 39.0 |
| (HLLS, 50, 50,V,V, P,2) | 15.4 | -131.0 | | -5.2 | | 0.9 | 140.3 | 39.9 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -5.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -2.6 | 1.4 | 2.7 | 155.6 | 49.2 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -6.2 | 1.4 | 2.7 | 150.2 | 43.8 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -4.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

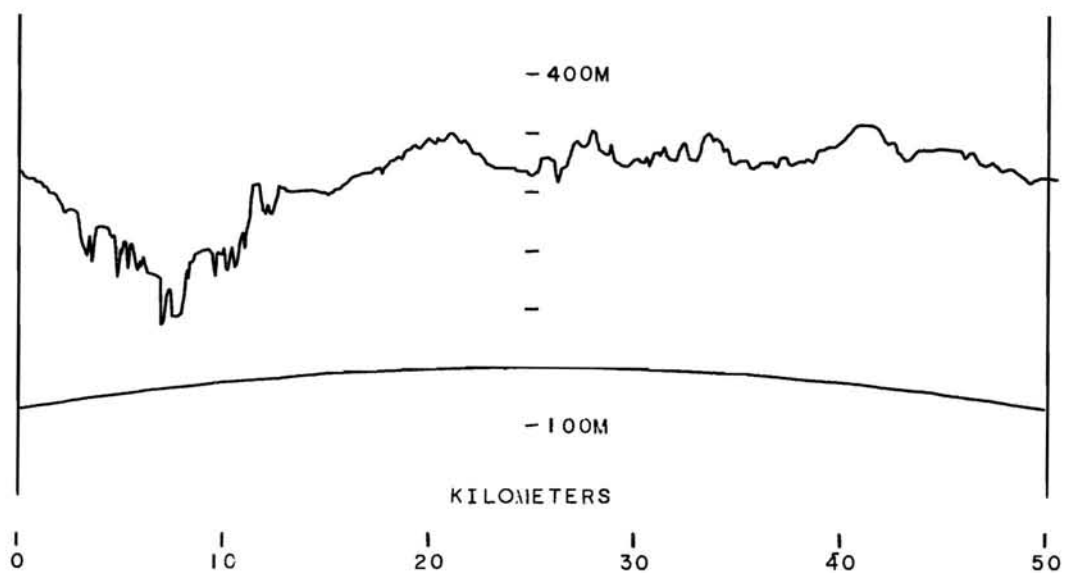
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 28

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 28

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

03-31-64

CLEAR FIELD TO FRONT, LEFT, AND RIGHT FOR .1MI. 60 TO 80FT WOODS BEYOND, SCATTERED 50FT TREES RUNNING NORTH-SOUTH 25FT AHEAD, 20FT PHONE LINE 8FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.4 | -134.0 | | -5.4 | | 0.0 | 152.0 | 59.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.4 | ** | | -5.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 15.4 | ** | | -8.0 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -3.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -2.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -3.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -4.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

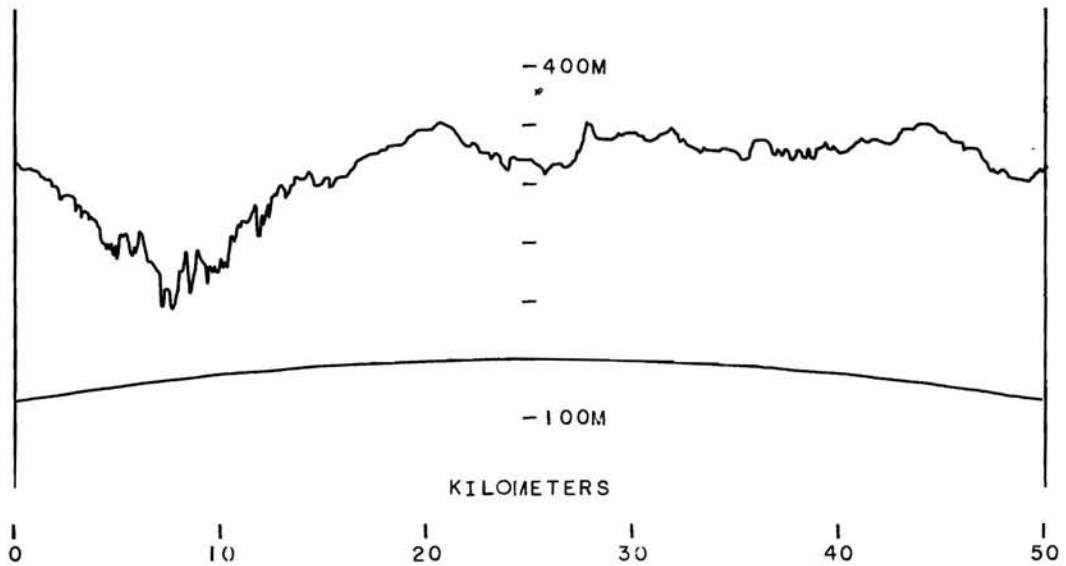
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 29
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 29

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

40FT TREES AHEAD, HOUSE AND SCATTERED BUILDINGS 200FT TO LEFT AND FRONT, 40 TO 60FT TREES BEYOND, 40FT POWER LINES 15FT AHEAD, 20FT PHONE LINES 30FT BEHIND, FARMHOUSE AND BUILDINGS 100FT BEHIND, 20 TO 80FT TREES 50FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.5 | -137.9 | | -12.3 | 0.8 | | 140.3 | 39.9 |
| (HLLS, 50, 50,V,V, P,2) | 15.5 | -134.0 | | -5.5 | 0.9 | | 143.1 | 42.7 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -22.7 | 1.4 | 2.7 | 139.7 | 33.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -133.5 | 7.6 | -8.6 | 1.4 | 2.7 | 148.4 | 42.0 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -132.4 | 7.6 | -5.7 | 1.4 | 2.7 | 150.2 | 43.8 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -4.6 | 1.3 | 2.7 | 152.7 | 46.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.0 | 9.4 | -5.6 | 1.3 | 2.7 | 150.8 | 44.4 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

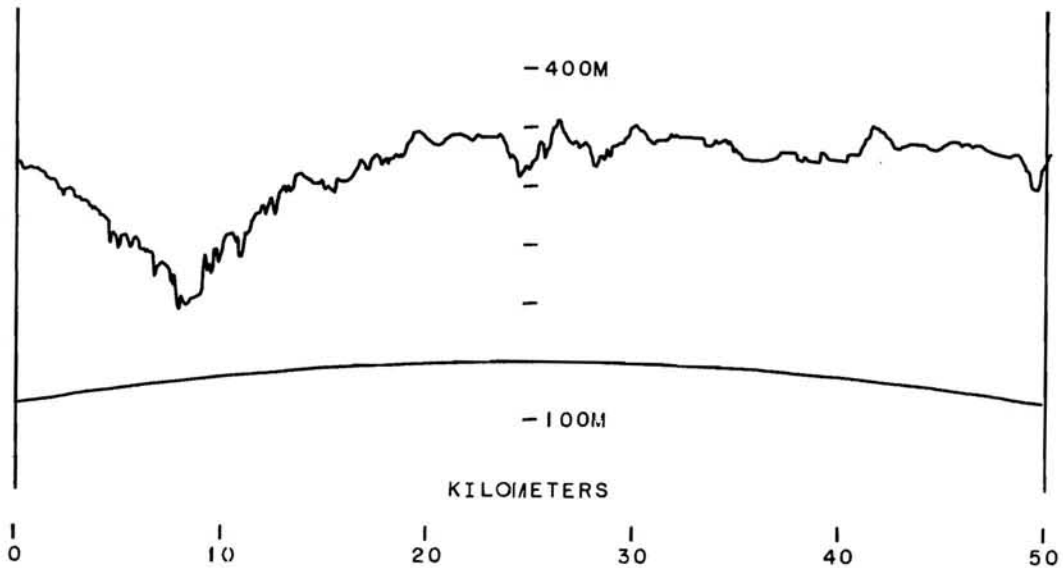
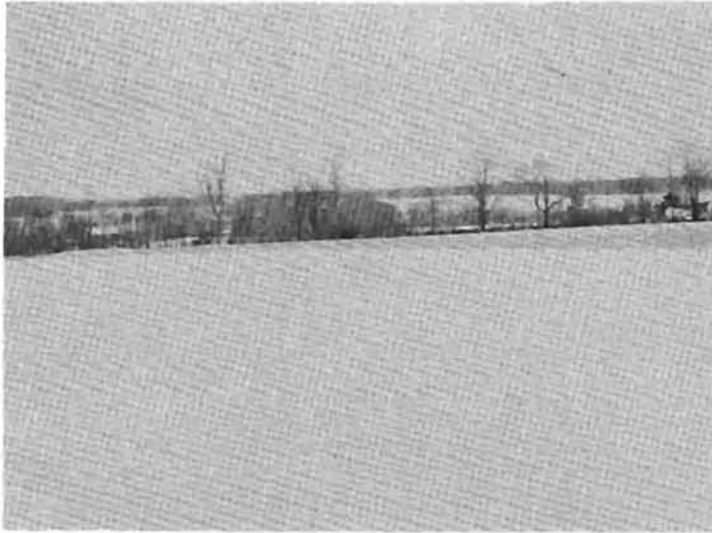
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 30
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 30
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

CLEAR FIELD 500FT AHEAD, LEFT, AND RIGHT, 40 TO 60FT TREES BEYOND,
FOLLOWED BY GENTLY ROLLING TERRAIN, 20FT PHONE LINES RUNNING EAST-
WEST 8FT AHEAD. 40FT POWER LINES 100FT ON RIGHT, CLEAR FIELD BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.4 | -137.9 | | -5.1 | | 0.0 | 156.2 | 63.8 |
| (HLLS, 50, 20,V,V,AV,1) | 23.4 | -137.9 | | -5.1 | | 0.0 | 156.2 | 63.8 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 16.0 | -135.4 | | -7.4 | | 0.8 | 143.2 | 42.8 |
| (HLLS, 50, 50,V,V, P,2) | 16.0 | -134.0 | | -5.2 | | 0.9 | 143.9 | 43.5 |
| (HLLS, 50, 50,V,V,AV,1) | 16.0 | -135.4 | | -7.4 | | 0.8 | 143.2 | 42.8 |
| (HLLS, 50, 50,V,V,AV,2) | 16.0 | -134.0 | | -5.2 | | 0.9 | 143.9 | 43.5 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -4.2 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -2.2 | 1.4 | 2.7 | 153.2 | 46.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -128.7 | 7.6 | -6.4 | 1.4 | 2.7 | 145.8 | 39.4 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -135.4 | 7.6 | -4.2 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -2.2 | 1.4 | 2.7 | 153.2 | 46.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -128.7 | 7.6 | -6.4 | 1.4 | 2.7 | 145.8 | 39.4 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -6.2 | 1.3 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -129.8 | 9.4 | -6.9 | 1.3 | 2.7 | 148.3 | 41.9 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -0.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -137.0 | 9.4 | -6.2 | 1.3 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -129.8 | 9.4 | -6.9 | 1.3 | 2.7 | 148.3 | 41.9 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

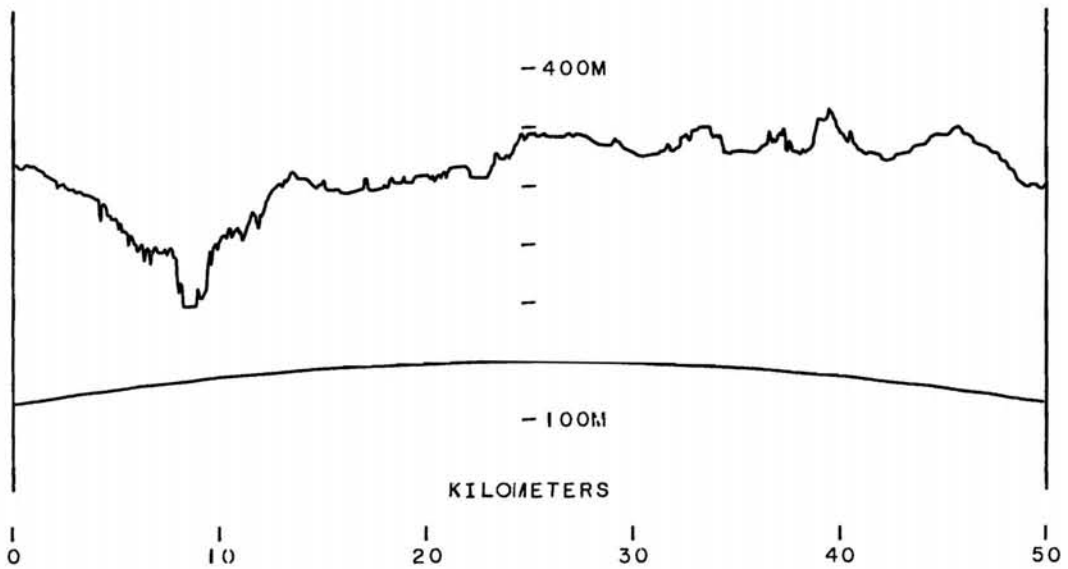
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 31
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 31

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

PUDDLE .1MI * 300FT 500FT TO FRONT, LEFT, AND RIGHT WITH 60FT TREES
BEYOND. HOUSE AND SCATTERED 15 TO 60FT TREES BEHIND, 20FT PHONE
LINES 100FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 23.5 | -137.0 | | -5.1 | | 0.0 | 155.4 | 63.0 |
| (HLLS, 50, 50,V,V, P,1) | 16.5 | -135.4 | | -2.2 | | 0.8 | 148.9 | 48.5 |
| (HLLS, 50, 50,V,V, P,2) | 16.5 | -134.0 | | -8.6 | | 0.9 | 141.0 | 40.6 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 16.5 | ** | | -2.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 16.5 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -1.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -2.0 | 1.4 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -1.8 | 1.4 | 2.7 | 154.6 | 48.2 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -1.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -130.6 | 7.6 | -2.0 | 1.4 | 2.7 | 152.1 | 45.7 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -128.4 | 7.6 | -1.8 | 1.4 | 2.7 | 150.1 | 43.7 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -4.0 | 1.3 | 2.7 | 158.4 | 52.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -128.4 | 9.4 | -2.8 | 1.3 | 2.7 | 151.0 | 44.6 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -126.9 | 9.4 | -3.3 | 1.3 | 2.7 | 149.0 | 42.6 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -132.4 | 9.4 | -4.0 | 1.3 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -126.4 | 9.4 | -2.8 | 1.3 | 2.7 | 149.0 | 42.6 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -126.4 | 9.4 | -3.3 | 1.3 | 2.7 | 148.5 | 42.1 |

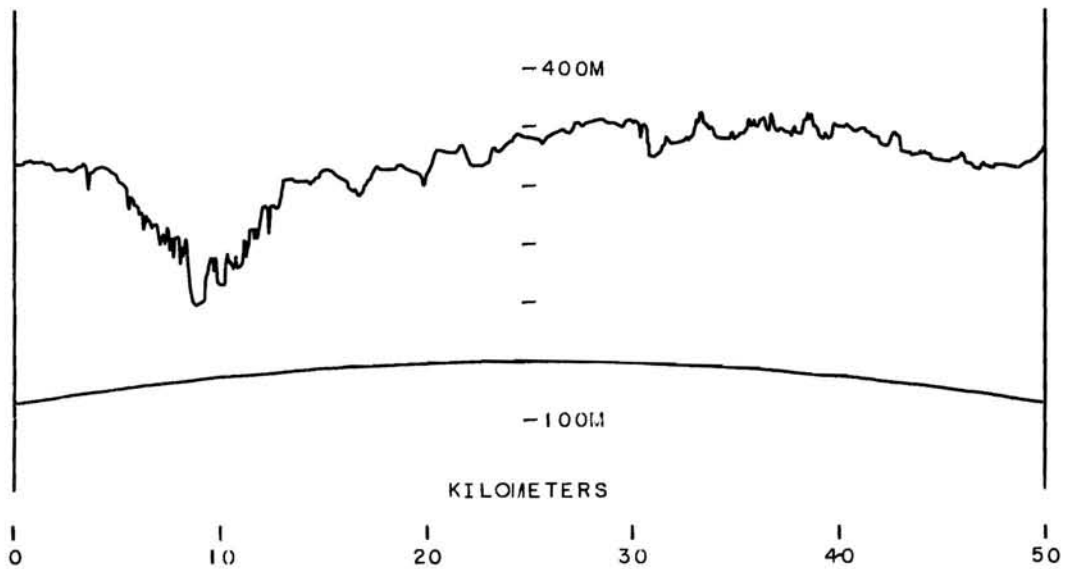
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 32
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 32

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

40FT POWER LINES 25FT AHEAD, LEFT, AND RIGHT, 20FT PHONE LINES ON SAME POLES, 10 TO 20FT TREES 100FT AHEAD, FARMHOUSE AND BUILDINGS 200 FT ON RIGHT. CLEAR FOR 500FT BEHIND, THEN 300FT LONG ROW OF 30 TO 50 FT TREES.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.0 | ** | | -11.1 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 17.0 | ** | | -5.3 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 17.0 | ** | | -11.1 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 17.0 | ** | | -5.3 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 17.0 | ** | | -11.1 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 17.0 | ** | | -5.3 | 0.9 | ** | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -5.9 | 1.4 | 2.7 | 156.5 | 50.1 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -136.2 | 7.6 | -1.2 | 1.4 | 2.7 | 158.5 | 52.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -134.0 | 7.6 | -3.2 | 1.4 | 2.7 | 154.3 | 47.9 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -5.9 | 1.4 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -134.0 | 7.6 | -1.2 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -133.5 | 7.6 | -3.2 | 1.4 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -134.0 | 7.6 | -5.9 | 1.4 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -134.0 | 7.6 | -1.2 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -133.5 | 7.6 | -3.2 | 1.4 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -134.0 | 9.4 | -0.6 | 1.3 | 2.7 | 158.8 | 52.4 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -132.4 | 9.4 | -6.4 | 1.3 | 2.7 | 151.4 | 45.0 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -129.0 | 9.4 | -4.4 | 1.3 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -132.4 | 9.4 | -0.6 | 1.3 | 2.7 | 157.2 | 50.8 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -131.0 | 9.4 | -6.4 | 1.3 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -129.4 | 9.4 | -4.4 | 1.3 | 2.7 | 150.4 | 44.0 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -132.4 | 9.4 | -0.6 | 1.3 | 2.7 | 157.2 | 50.8 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -131.0 | 9.4 | -6.4 | 1.3 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -129.4 | 9.4 | -4.4 | 1.3 | 2.7 | 150.4 | 44.0 |

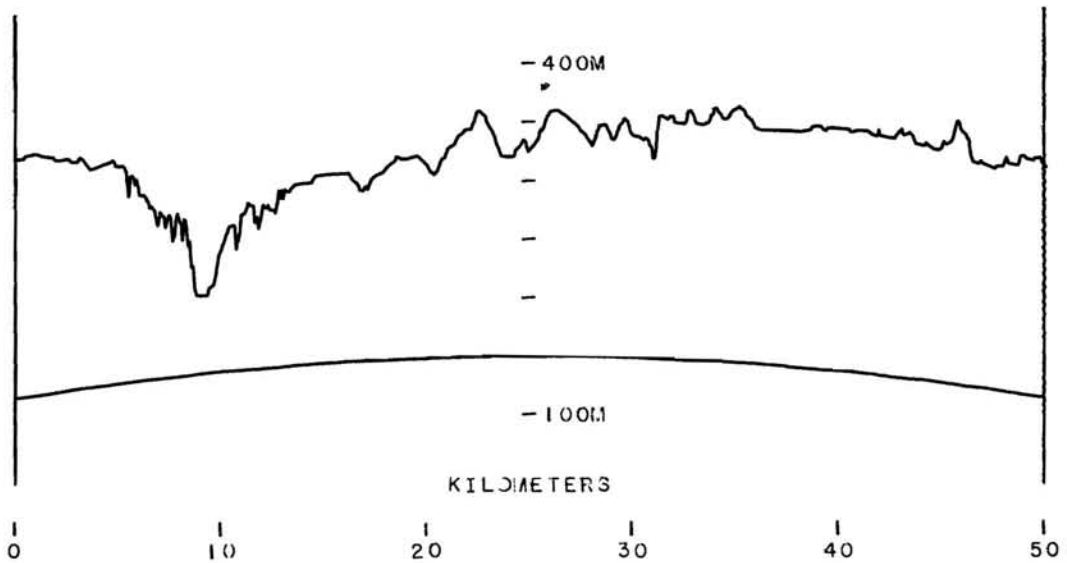
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 33
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 33

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

CLEAR FIELD FOR .1MI AHEAD, LEFT, AND RIGHT, THEN 80FT TREES. FARM-
HOUSE AND BUILDINGS 300FT ON RIGHT, 30FT POWER LINES 20FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.5 | -136.2 | | -5.0 | | 0.0 | 154.7 | 62.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 16.5 | ** | | -2.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 16.5 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -6.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -3.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -3.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -6.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -3.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -3.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

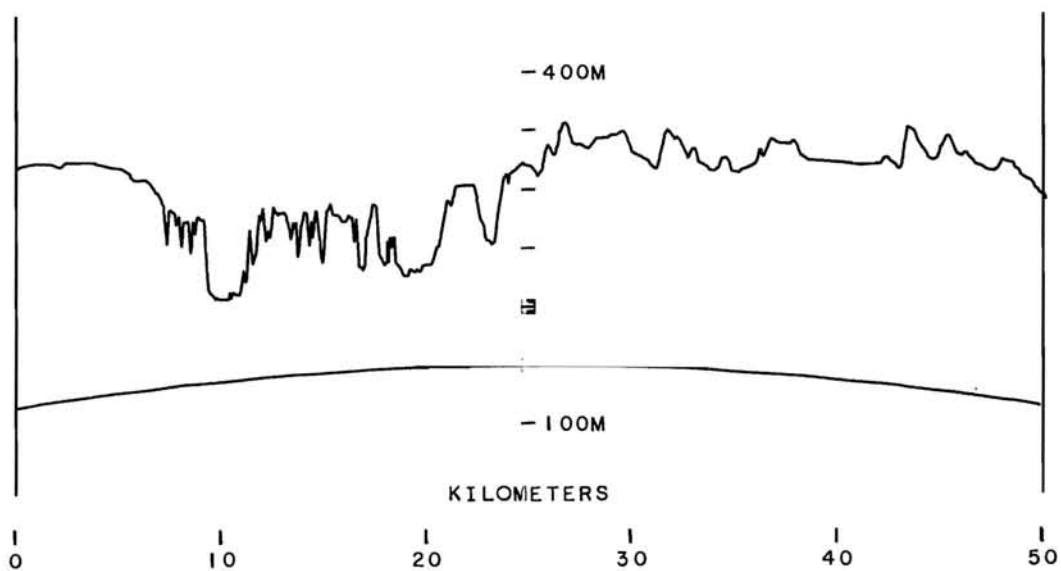
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 34

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 34
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-01-64

40FT POWER LINES AND 25FT PHONE LINES 15FT TO FRONT, LEFT, AND RIGHT,
ALSO SCATTERED 20 TO 60FT TREES, GENTLY ROLLING TERRAIN AHEAD, CREEK
10FT AHEAD. HOUSE 300FT TO LEFT, SCATTERED 50FT TREES 30FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.4 | -140.1 | | -11.8 | | 0.0 | 151.7 | 59.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.0 | ** | | -10.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 17.0 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -5.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

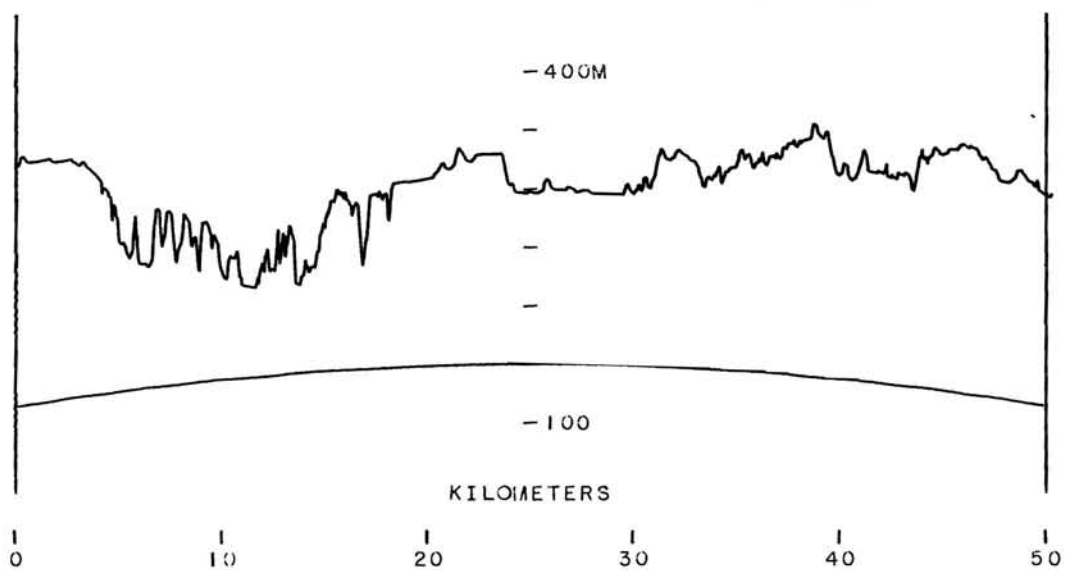
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 35
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 35

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

CLEAR FIELDS .2MI AHEAD, THEN GENTLY ROLLING HILLS AND SCATTERED 60FT TREES, 20FT POWER AND PHONE LINES 15FT, 40FT TREES 60FT BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20, V, V, P, 1) | 23.2 | -140.1 | | -5.0 | | 0.0 | 158.3 | 65.9 |
| (HLLS, 50, 20, V, V, AV, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20, V, V, AH, 1) | 23.2 | -140.1 | | -5.0 | | 0.0 | 158.3 | 65.9 |
| (HLLS, 50, 50, V, V, P, 1) | 16.7 | ** | | -4.0 | | 0.8 | ** | ** |
| (HLLS, 50, 50, V, V, P, 2) | 16.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 50, 50, V, V, AV, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, AV, 2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, AH, 1) | 16.7 | ** | | -4.0 | | 0.8 | ** | ** |
| (HLLS, 50, 50, V, V, AH, 2) | 16.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 50, 100, V, V, P, 3) | 20.0 | ** | 7.6 | -7.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100, V, V, P, 6) | 20.0 | -140.1 | 7.6 | -3.6 | 1.4 | 2.7 | 160.0 | 53.6 |
| (HLLS, 50, 100, V, V, P, 9) | 20.0 | -137.0 | 7.6 | -3.5 | 1.4 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50, 100, V, V, AV, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AV, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AV, 9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AH, 3) | 20.0 | ** | 7.6 | -7.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100, V, V, AH, 6) | 20.0 | -140.1 | 7.6 | -3.6 | 1.4 | 2.7 | 160.0 | 53.6 |
| (HLLS, 50, 100, V, V, AH, 9) | 20.0 | -137.0 | 7.6 | -3.5 | 1.4 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50, 100, H, H, P, 3) | 20.0 | -140.1 | 9.4 | -6.9 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50, 100, H, H, P, 6) | 20.0 | -140.1 | 9.4 | -3.5 | 1.3 | 2.7 | 162.0 | 55.6 |
| (HLLS, 50, 100, H, H, P, 9) | 20.0 | -140.1 | 9.4 | -4.0 | 1.3 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50, 100, H, H, AV, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AV, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AV, 9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AH, 3) | 20.0 | -140.1 | 9.4 | -6.9 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50, 100, H, H, AH, 6) | 20.0 | -140.1 | 9.4 | -3.5 | 1.3 | 2.7 | 162.0 | 55.6 |
| (HLLS, 50, 100, H, H, AH, 9) | 20.0 | -140.1 | 9.4 | -4.0 | 1.3 | 2.7 | 161.5 | 55.1 |

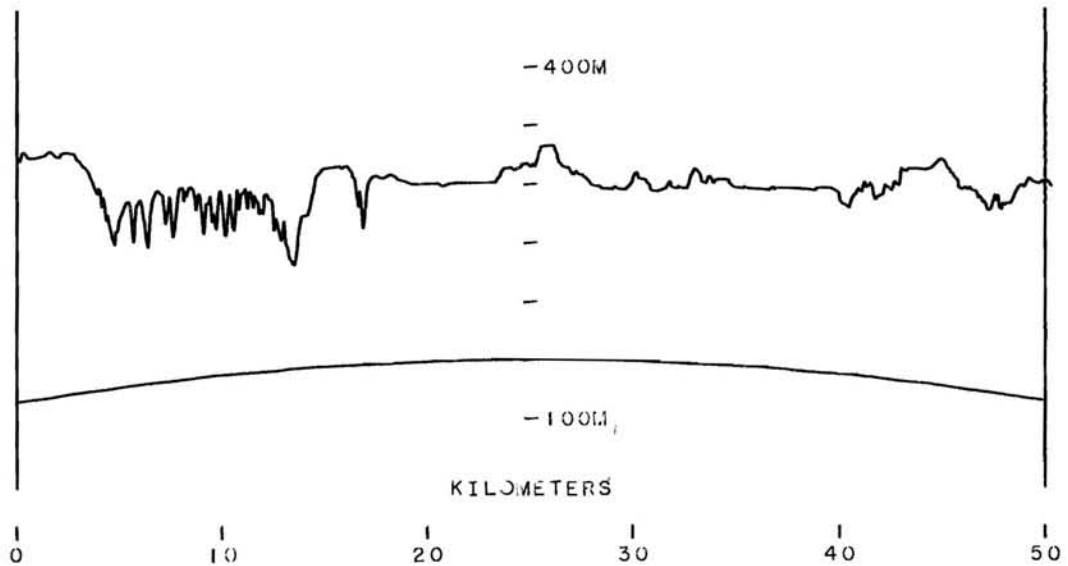
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 36
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 36

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

CLEAR FIELD 1/4MI AHEAD, LEFT, AND RIGHT WITH 80FT TREES BEYOND. 40 FT POWER LINES AND 20FT PHONE LINES ON SAME POLES 30FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.1 | -136.2 | | -13.1 | | 0.0 | 146.2 | 53.8 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 16.2 | ** | | -12.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 16.2 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

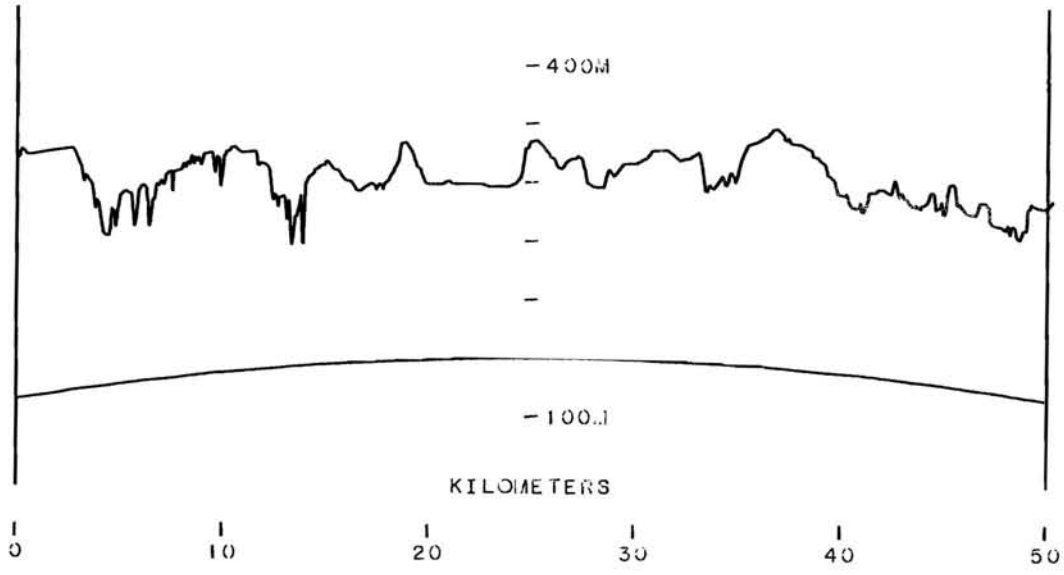
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 37
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 37

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

ROLLING TERRAIN AND SCATTERED 40FT TREES BEGIN AT .1MI AHEAD. CLEAR FOR .5MI TO LEFT, THEN 3 200FT RADIO TOWERS, 40FT POWER LINES 20FT BEHIND, 100FT TREES .5MI BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.3 | -132.9 | | -13.1 | | 0.0 | 142.1 | 49.7 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.5 | ** | | -7.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 15.5 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -12.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -5.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

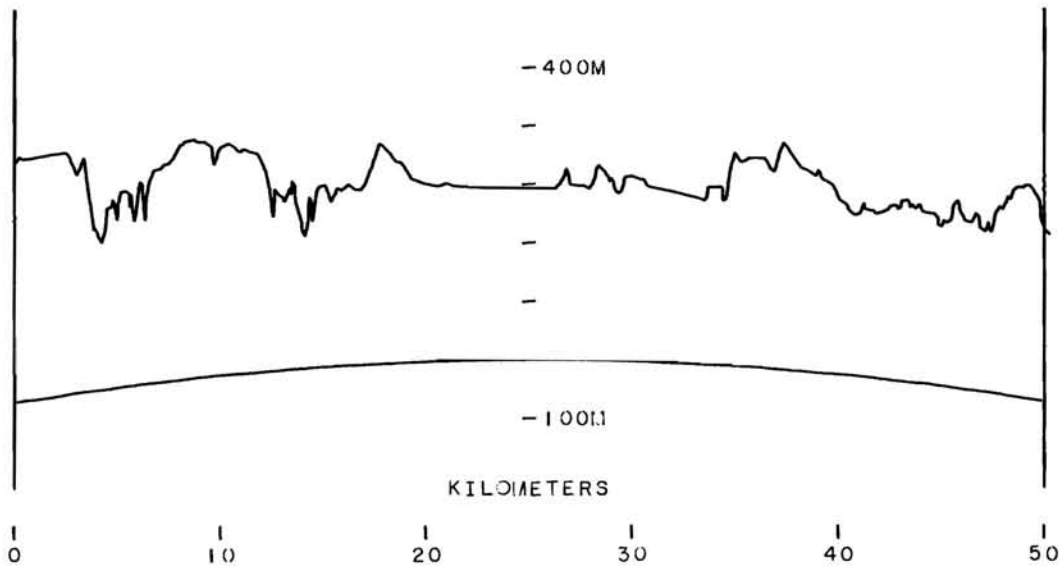
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 38
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 38

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

30FT POWER LINES AND 20FT PHONE LINES 10FT ON RIGHT, 30FT GUY WIRES
200FT AHEAD. GRADUAL SLOPING HILL .2MI AHEAD WITH 60 TO 80FT SCAT-
TERED TREES BEYOND. CLEAR FIELD 300FT LEFT, HILL .2MI BEHIND. POWER
LINES CROSS ROAD 100FT BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.0 | -134.0 | | -5.3 | | 0.0 | 150.7 | 58.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 14.8 | ** | | -5.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 14.8 | ** | | -7.8 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -4.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -8.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -143.0 | 9.4 | -5.5 | 1.3 | 2.7 | 162.9 | 56.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.5 | 1.3 | 2.7 | 158.8 | 52.4 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

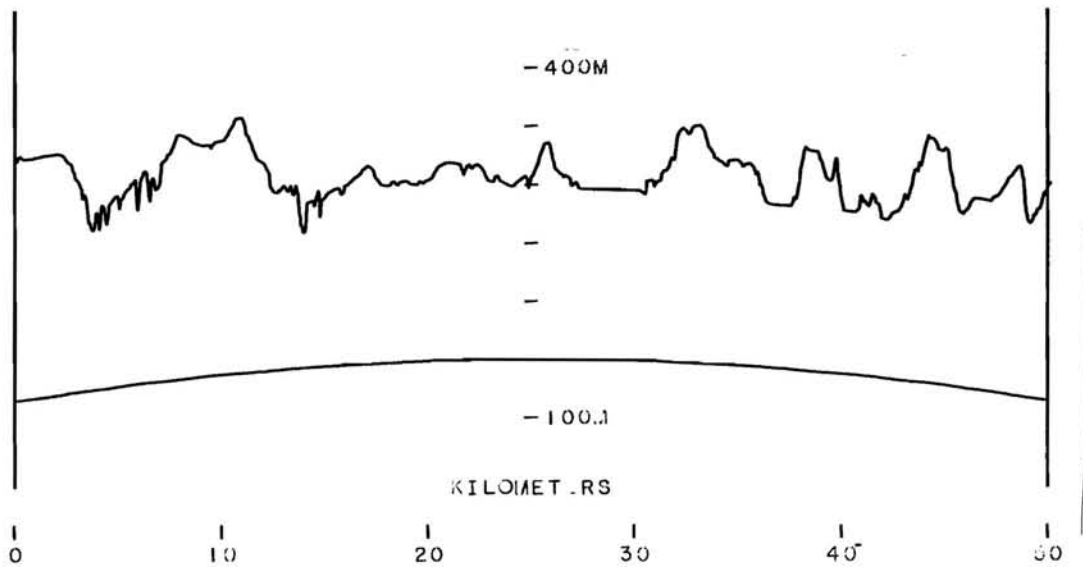
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 39
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 39

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

60 TO 80FT TREES .1MI AHEAD, 60FT TREES 1/4MI LEFT, 30FT TREES 300FT
RIGHT, ALSO 30FT POWER LINES AND 20FT PHONE LINES 20FT AWAY. POWER
LINES CROSS ROAD 50FT BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.5 | -134.0 | | -5.4 | 0.0 | | 151.1 | 58.7 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 22.5 | -140.1 | | -5.4 | 0.0 | | 157.2 | 64.8 |
| (HLLS, 50, 50,V,V, P,1) | 14.5 | -143.0 | | -5.9 | 0.8 | | 150.8 | 50.4 |
| (HLLS, 50, 50,V,V, P,2) | 14.5 | -138.9 | | -7.0 | 0.9 | | 145.5 | 45.1 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 14.5 | ** | | -5.9 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 14.5 | ** | | -7.0 | 0.9 | | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -9.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -9.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | ** | 7.6 | -4.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | ** | 7.6 | -5.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -9.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -6.0 | 1.3 | 2.7 | 158.3 | 51.9 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -134.0 | 9.4 | -5.9 | 1.3 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -137.0 | 9.4 | -9.3 | 1.3 | 2.7 | 153.1 | 46.7 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -136.2 | 9.4 | -6.0 | 1.3 | 2.7 | 155.6 | 49.2 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -136.2 | 9.4 | -5.9 | 1.3 | 2.7 | 155.7 | 49.3 |

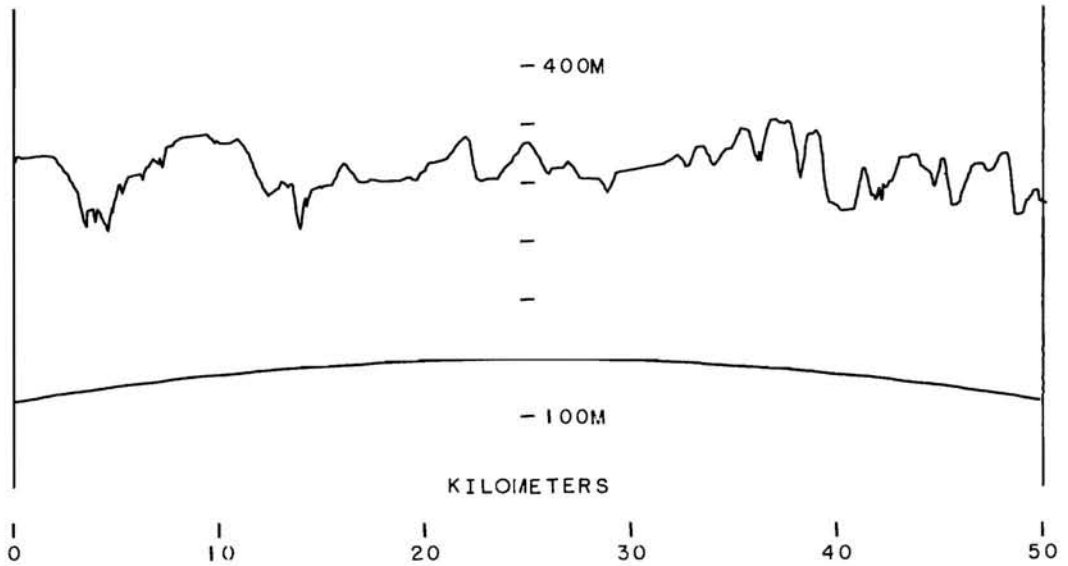
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 40
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 40

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-02-64

CLEAR FOR .2MI AHEAD. 60FT TREES .1MI LEFT, 60FT TREES 50FT RIGHT,
20FT PHONE LINES 15FT RIGHT, CLEAR BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.1 | -137.0 | | -5.4 | | 0.0 | 153.7 | 61.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 14.7 | ** | | -6.1 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 14.7 | ** | | -6.6 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -9.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -6.1 | 1.3 | 2.7 | 158.2 | 51.8 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

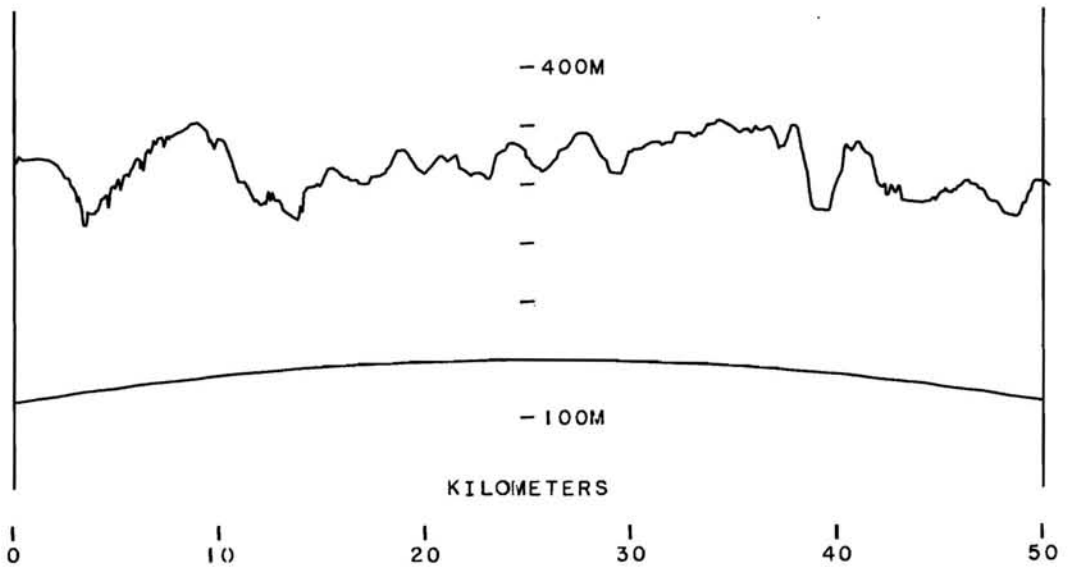
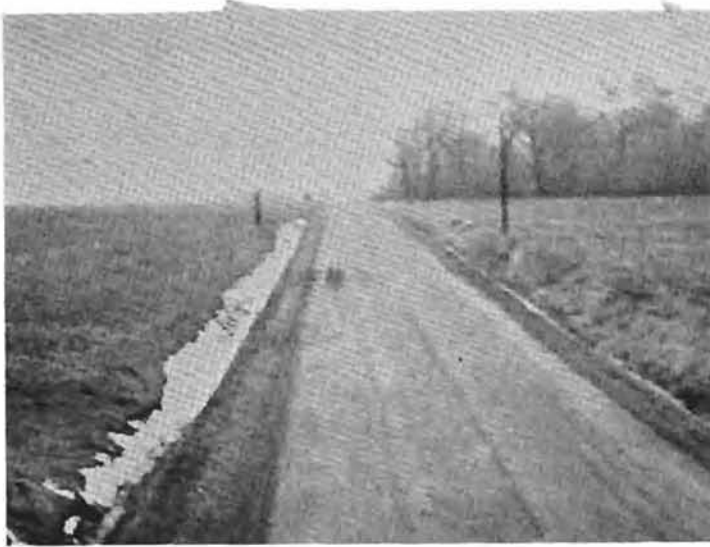
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 41
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 41

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-03-61

CLEAR FOR .1MI AHEAD, THEN SCATTERED 60FT TREES, FARM BUILDING, AND
80FT SILO .3MI LEFT, 60FT TREES .1MI RIGHT. 30FT POWER LINES 15FT
LEFT, 20FT PHONE LINES 20FT RIGHT AND CROSSING ROAD 100FT BEHIND.
SCATTERED TREES ON BOTH SIDES OF ROAD 300FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.0 | -141.5 | | -13.0 | | 0.0 | 150.5 | 58.1 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 14.0 | -140.1 | | -7.3 | | 0.8 | 146.0 | 45.6 |
| (HLLS, 50, 50,V,V, P,2) | 14.0 | -140.1 | | -5.4 | | 0.9 | 147.8 | 47.4 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -9.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -7.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

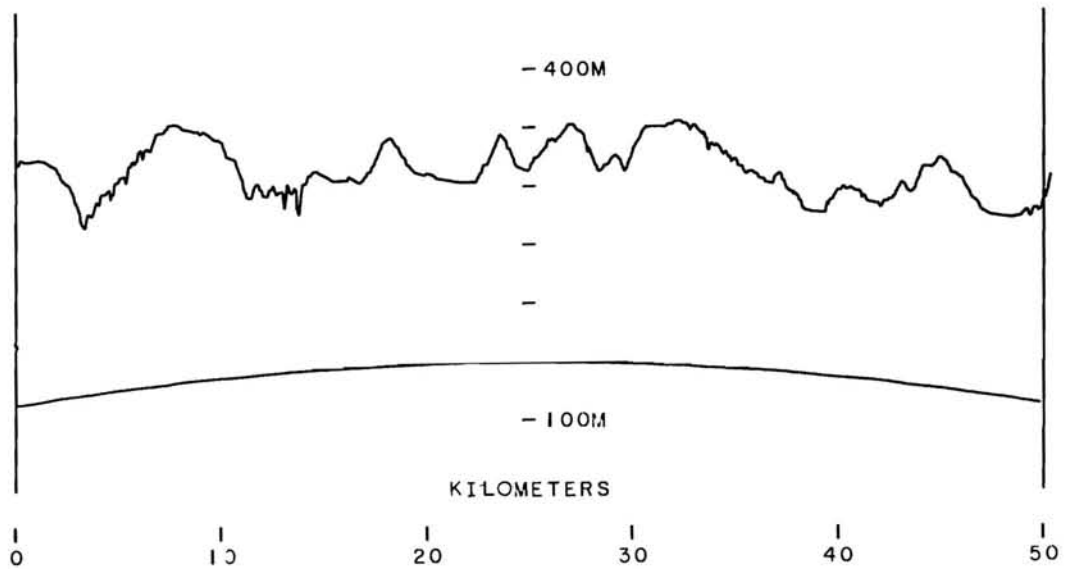
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 42

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 42

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-03-64

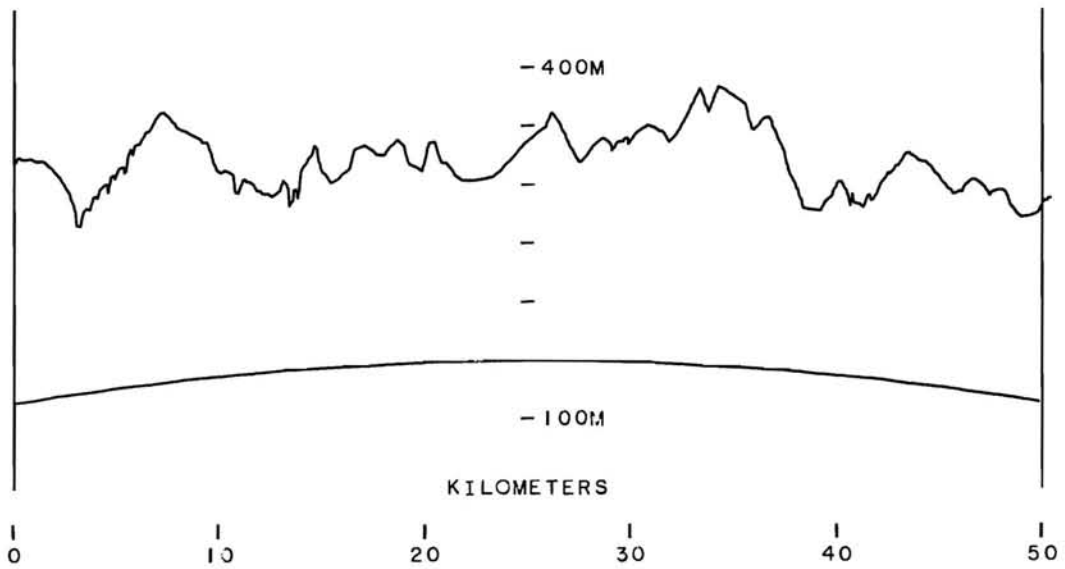
40FT POWER LINES, 20FT PHONE LINES 10FT AHEAD, POWER LINES CROSS ROAD
125FT AHEAD, 25 TO 60FT TREES 100FT AHEAD, 60FT TREES ON RIGHT AND
LEFT. PHONE LINES CROSS ROAD 30FT BEHIND. CLEAR .25MI BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.2 | -129.0 | | -5.3 | | 0.0 | 144.9 | 52.5 |
| (HLLS, 50, 20,V,V,AV,1) | 21.2 | -128.1 | | -5.3 | | 0.0 | 144.0 | 51.6 |
| (HLLS, 50, 20,V,V,AH,1) | 21.2 | -128.1 | | -5.3 | | 0.0 | 144.0 | 51.6 |
| (HLLS, 50, 50,V,V, P,1) | 14.1 | -131.9 | | -7.0 | | 0.8 | 138.2 | 37.8 |
| (HLLS, 50, 50,V,V, P,2) | 14.1 | -132.9 | | -5.4 | | 0.9 | 140.7 | 40.3 |
| (HLLS, 50, 50,V,V,AV,1) | 14.1 | -131.0 | | -7.0 | | 0.8 | 137.3 | 36.9 |
| (HLLS, 50, 50,V,V,AV,2) | 14.1 | -132.9 | | -5.4 | | 0.9 | 140.7 | 40.3 |
| (HLLS, 50, 50,V,V,AH,1) | 14.1 | -131.0 | | -7.0 | | 0.8 | 137.3 | 36.9 |
| (HLLS, 50, 50,V,V,AH,2) | 14.1 | -132.9 | | -5.4 | | 0.9 | 140.7 | 40.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -5.7 | 1.4 | 2.7 | 156.7 | 50.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -135.4 | 7.6 | -3.0 | 1.4 | 2.7 | 155.9 | 49.5 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -134.7 | 7.6 | -6.0 | 1.4 | 2.7 | 152.2 | 45.8 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -132.9 | 7.6 | -5.7 | 1.4 | 2.7 | 150.7 | 44.3 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -135.4 | 7.6 | -3.0 | 1.4 | 2.7 | 155.9 | 49.5 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -131.9 | 7.6 | -6.0 | 1.4 | 2.7 | 149.4 | 43.0 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -132.9 | 7.6 | -5.7 | 1.4 | 2.7 | 150.7 | 44.3 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -135.4 | 7.6 | -3.0 | 1.4 | 2.7 | 155.9 | 49.5 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -131.9 | 7.6 | -6.0 | 1.4 | 2.7 | 149.4 | 43.0 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -132.9 | 9.4 | -5.8 | 1.3 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 40.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -125.7 | 9.4 | -6.8 | 1.3 | 2.7 | 144.3 | 37.9 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -130.2 | 9.4 | -5.8 | 1.3 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 40.3 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -126.9 | 9.4 | -6.8 | 1.3 | 2.7 | 145.5 | 39.1 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -130.2 | 9.4 | -5.8 | 1.3 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 40.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -126.9 | 9.4 | -6.8 | 1.3 | 2.7 | 145.5 | 39.1 |

OHIO HILLS B= 50KM SITE 43
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 43

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-03-64

ROAD IN FRONT WITH CROSSING POWER LINES AT 200FT. 25FT POWER LINES
10FT LEFT, SCATTERED 50FT TREES 50FT LEFT. 20FT PHONE LINES 15FT
RIGHT, 60FT TREES 30FT RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.2 | -137.0 | | -13.0 | | 0.0 | 145.2 | 52.8 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 14.4 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 14.4 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -10.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -140.1 | 9.4 | -5.2 | 1.3 | 2.7 | 160.3 | 53.9 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

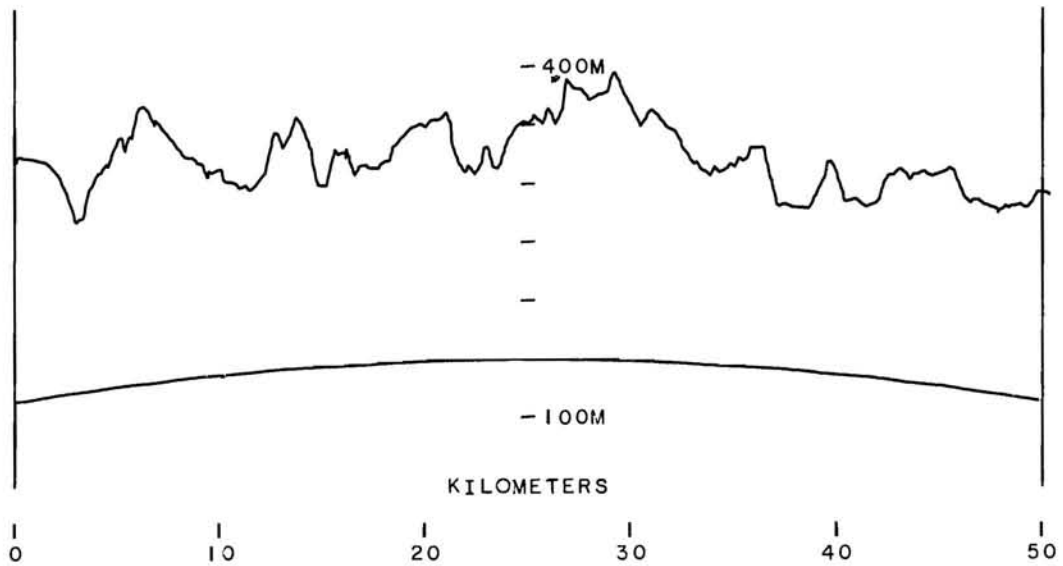
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 44
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 44

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-03-64

30FT POWER LINES 10FT AHEAD, ALSO .1MI AHEAD ALONG WITH 20FT PHONE LINES AND 2 HOUSES, 60 TO 80FT TREES 1/4MI AHEAD. HOUSES AND 60FT TREES 1/4MI RIGHT, HOUSES .1MI LEFT, 20FT PHONE LINES 30FT BEHIND. POWER LINES CROSS ROAD 100FT EAST.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.8 | -137.0 | | -13.2 | | 0.0 | 143.6 | 51.2 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.0 | ** | | -15.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 15.0 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -17.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -140.1 | 7.6 | -8.5 | 1.4 | 2.7 | 155.1 | 48.7 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -6.1 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -1.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

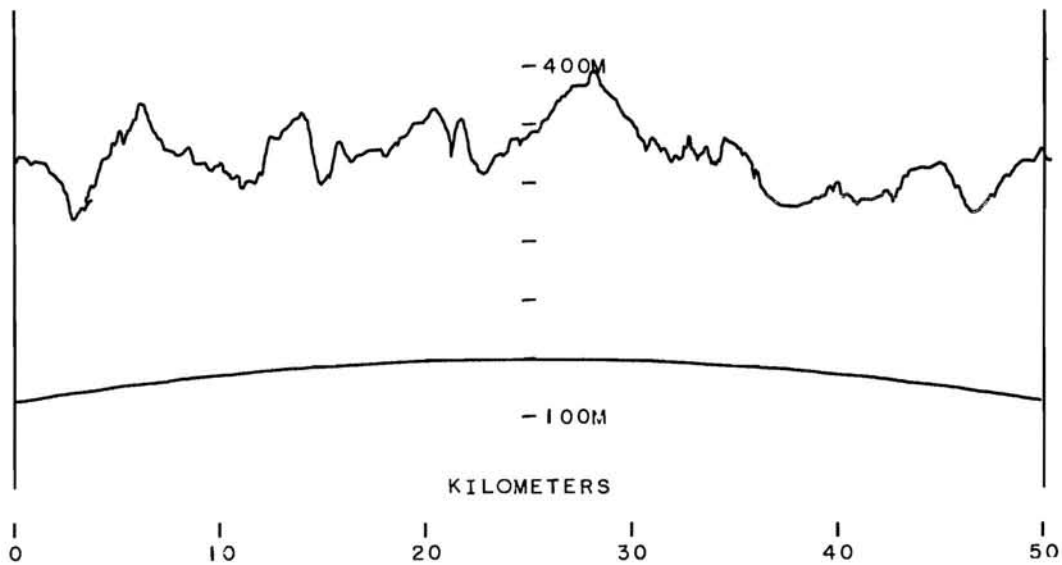
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 45
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 45
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-03-64

CLEAR FOR .1MI AHEAD, LEFT, AND RIGHT, THEN 60FT TREES AND 2 HOUSES,
30FT POWER LINES RUNNING NORTH-SOUTH 10FT AWAY. 40FT TREES 1/4MI BE-
HIND, 20FT PHONE LINES 20FT BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 18.5 | -129.4 | | -5.4 | | 0.0 | 142.5 | 50.1 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 18.5 | -129.4 | | -5.4 | | 0.0 | 142.5 | 50.1 |
| (HLLS, 50, 50,V,V, P,1) | 15.7 | -135.4 | | -6.9 | | 0.8 | 143.4 | 43.0 |
| (HLLS, 50, 50,V,V, P,2) | 15.7 | -135.4 | | -5.6 | | 0.9 | 144.6 | 44.2 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 15.7 | -135.4 | | -6.9 | | 0.8 | 143.4 | 43.0 |
| (HLLS, 50, 50,V,V,AH,2) | 15.7 | -135.4 | | -5.6 | | 0.9 | 144.6 | 44.2 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -6.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -3.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -5.9 | 1.4 | 2.7 | 155.5 | 49.1 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -6.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | ** | 7.6 | -3.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -137.9 | 7.6 | -5.9 | 1.4 | 2.7 | 155.5 | 49.1 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -140.1 | 9.4 | -7.0 | 1.3 | 2.7 | 158.5 | 52.1 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -6.2 | 1.3 | 2.7 | 153.2 | 46.8 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -132.4 | 9.4 | -6.7 | 1.3 | 2.7 | 151.1 | 44.7 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -140.1 | 9.4 | -7.0 | 1.3 | 2.7 | 158.5 | 52.1 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -134.0 | 9.4 | -6.2 | 1.3 | 2.7 | 153.2 | 46.8 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -132.4 | 9.4 | -6.7 | 1.3 | 2.7 | 151.1 | 44.7 |

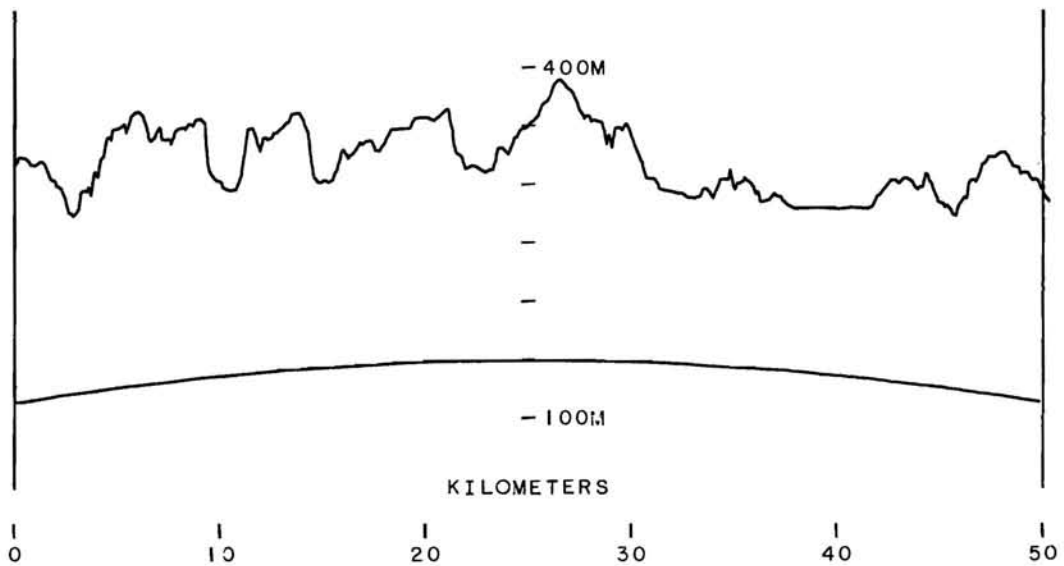
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 46
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 46

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-06-64

40FT LINES 20FT AHEAD, 40FT TREES .5MI AHEAD SPREADING OUT TO HORIZON. BUILDINGS, WIRES, AND LANE .3MI LEFT, PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|------|------|-------|------|------|------|----|
| (HLLS, 50, 20,V,V, P,1) | 18.0 | ** | | -13.2 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.9 | ** | | -14.9 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 15.9 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -18.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

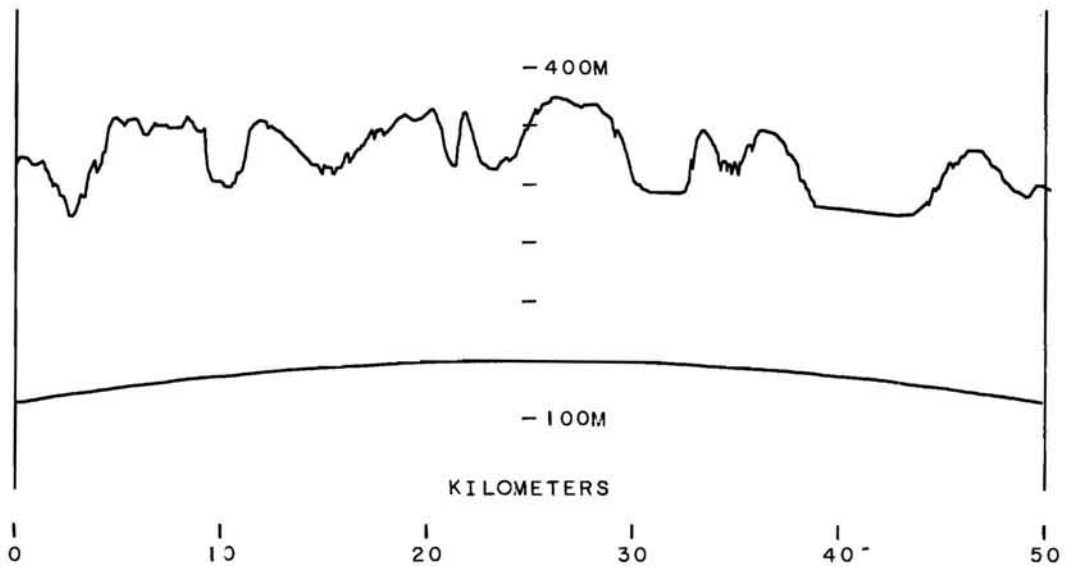
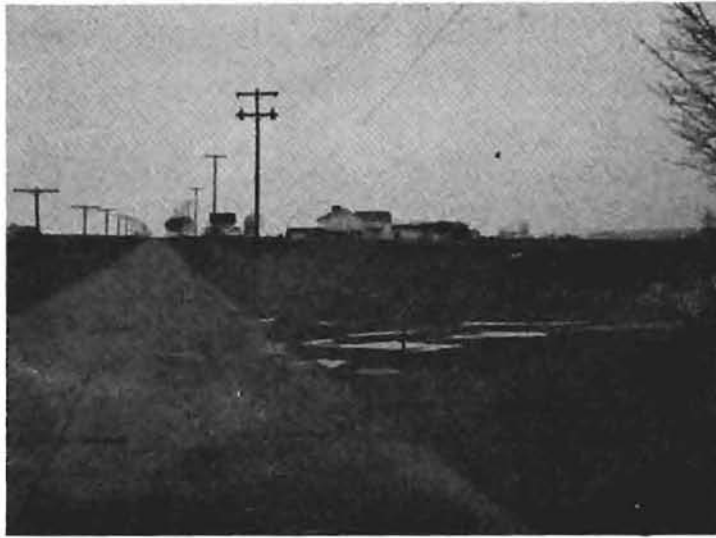
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 47
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 47

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-06-64

40FT LINES 20FT AHEAD; 30FT TREES 50FT AHEAD; BARN AND BUILDINGS .2MI
AHEAD; SCATTERED BUILDINGS AND TREES TO HORIZON. HOUSE TO RIGHT AND
PHONE LINES TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|--------------------------|------|-------|------|------|------|------|------|-------|
| (HLLS, 50, 20,V,V, P,1) | 17.2 | -37.1 | | -5.4 | | 0.0 | 48.9 | -43.5 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,2) | 16.1 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -5.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | ** | 7.6 | -3.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -6.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | ** | 9.4 | -6.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

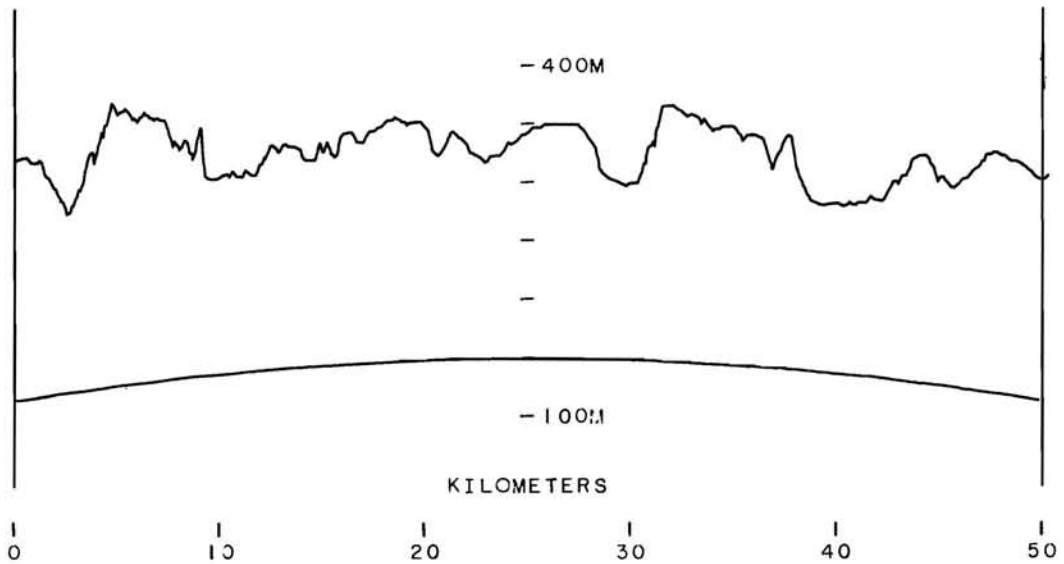
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 48
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 48
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-06-64

20FT PHONE LINES 10FT AHEAD AND CROSSING AT .4MI; BUILDINGS AT .5MI.
CLEAR TO LEFT AND RIGHT; ELECTRIC LINES TO REAR.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|-------|------|-------|------|------|------|-------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -37.1 | | -13.1 | | 0.0 | 41.0 | -51.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,2) | 17.7 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -21.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

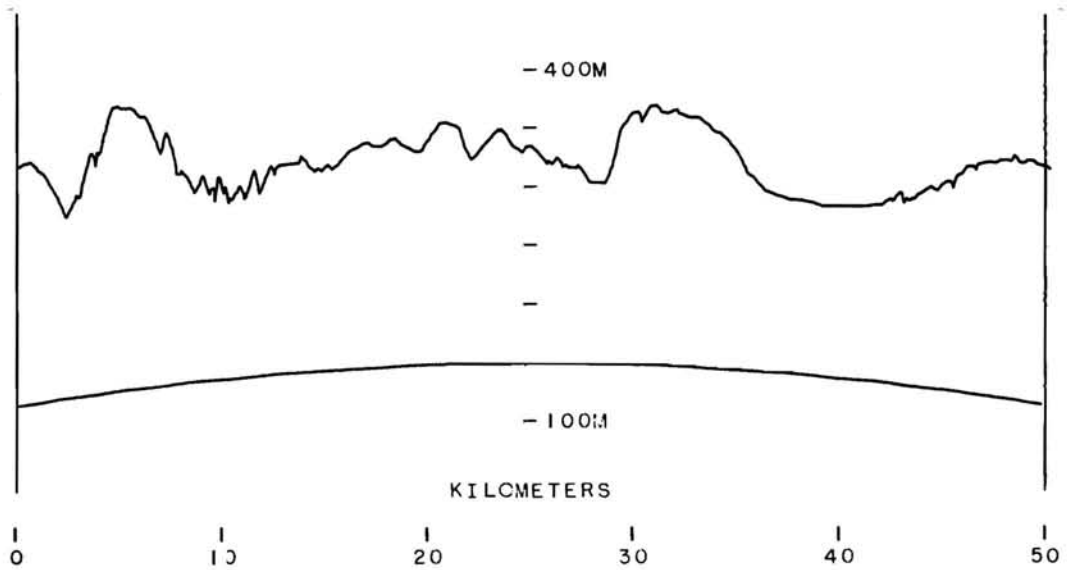
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 49
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 49

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

20FT TREE 20FT AHEAD, HOUSE, BARN, AND 40FT TREES .3MI AHEAD, TREES CONTINUING TO HORIZON. CLEAR TO RIGHT AND LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | ** | | -13.1 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.5 | ** | | -13.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.5 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -20.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -5.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -141.5 | 9.4 | -5.8 | 1.3 | 2.7 | 161.1 | 54.7 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

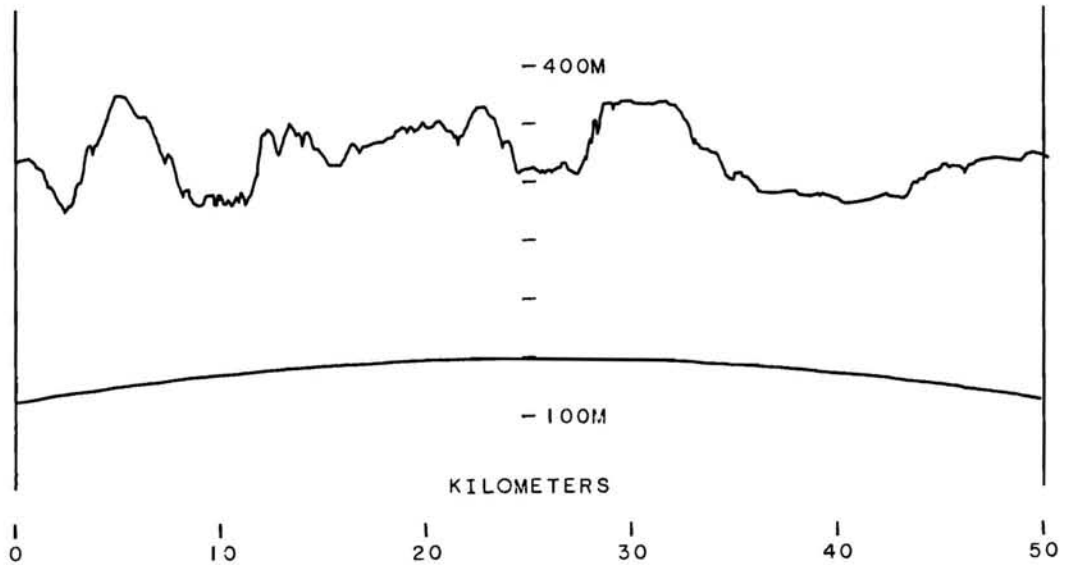
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 50
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 50
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

SCATTERED TREES .3MI AHEAD AND AGAIN .6MI AHEAD ON TO HORIZON. 50FT
TREES SCATTERED IN DISTANCE ON RIGHT AND LEFT, ELECTRIC LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -145.0 | | -5.2 | | 0.0 | 156.8 | 64.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.8 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 18.8 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -4.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -2.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -7.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

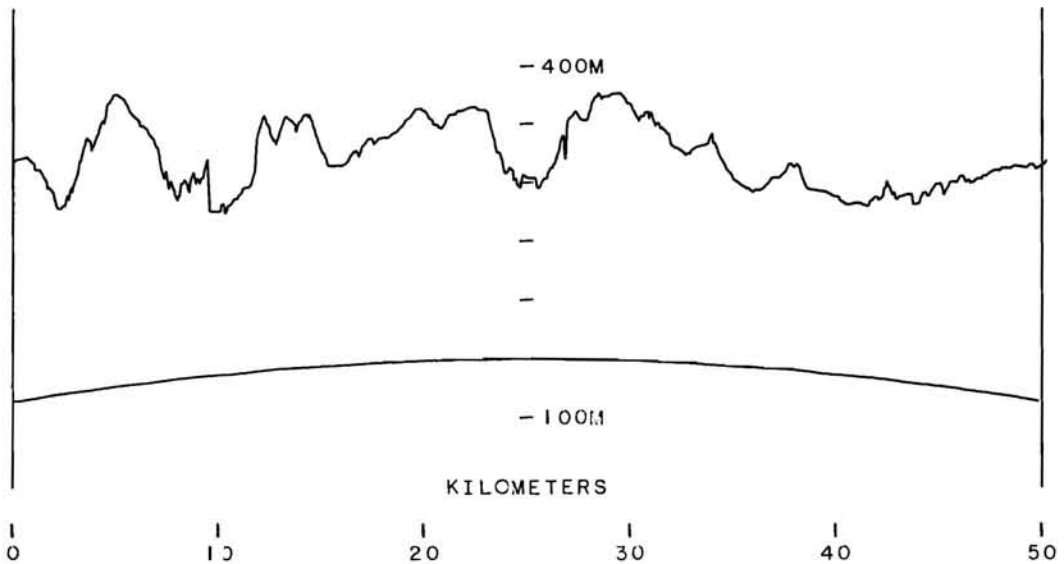
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 51
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS θ = 50KM SITE 51

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

20FT PHONE LINES 20FT AHEAD, BUILDINGS AND CROSSING LINES .3MI AHEAD
 50FT WOODS .5MI AHEAD TO HORIZON. ELECTRIC LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -134.0 | | -12.4 | | 0.0 | 138.6 | 46.2 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 17.0 | ** | | -12.4 | | 0.0 | ** | ** |
| (HLLS, 50, 50,V,V, P,1) | 19.1 | ** | | -11.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 19.1 | -134.7 | | -5.5 | | 0.9 | 147.4 | 47.0 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 19.1 | ** | | -11.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 19.1 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -141.5 | 7.6 | -5.8 | 1.4 | 2.7 | 159.2 | 52.8 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -23.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | ** | 7.6 | -8.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | ** | 7.6 | -5.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -141.5 | 9.4 | -5.4 | 1.3 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |

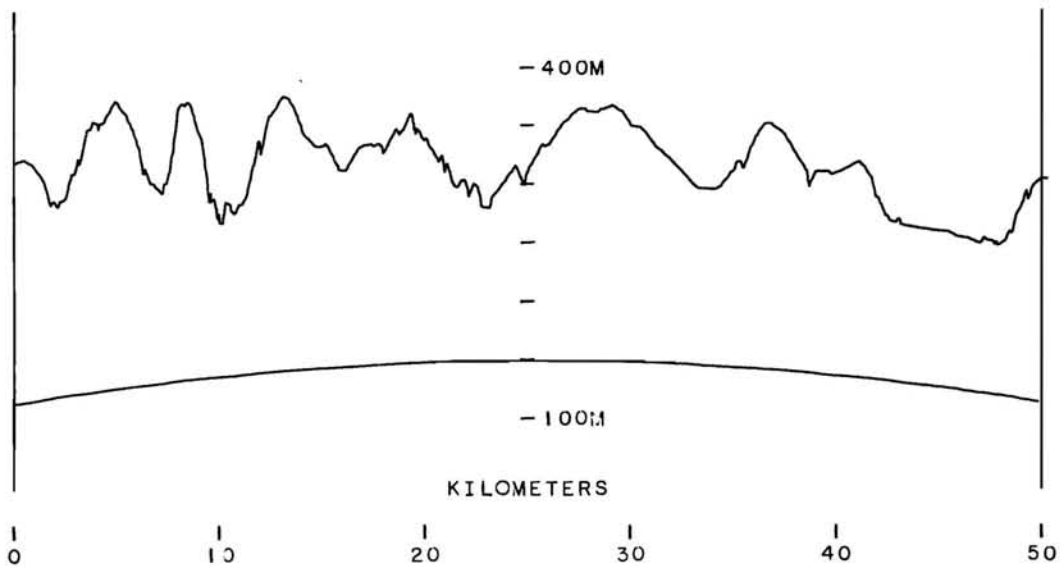
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS R= 50KM SITE 52
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 52

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

50FT LINES 20FT AHEAD, SCATTERED 50FT TREES .4MI AHEAD TO HORIZON.
PHONE LINES BEHIND. CLEAR TO RIGHT AND LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -132.9 | | -5.7 | | 0.0 | 144.2 | 51.8 |
| (HLLS, 50, 20,V,V,AV,1) | 17.0 | -131.0 | | -5.7 | | 0.0 | 142.3 | 49.9 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 19.2 | -143.0 | | -8.7 | | 0.8 | 152.7 | 52.3 |
| (HLLS, 50, 50,V,V, P,2) | 19.2 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 19.2 | ** | | -8.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 19.2 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -4.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -143.0 | 7.6 | -6.5 | 1.4 | 2.7 | 160.0 | 53.6 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -143.0 | 7.6 | -4.3 | 1.4 | 2.7 | 162.2 | 55.8 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -141.5 | 7.6 | -2.4 | 1.4 | 2.7 | 162.6 | 56.2 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -138.9 | 7.6 | -6.5 | 1.4 | 2.7 | 155.9 | 49.5 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -6.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -143.0 | 9.4 | -6.7 | 1.3 | 2.7 | 161.7 | 55.3 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

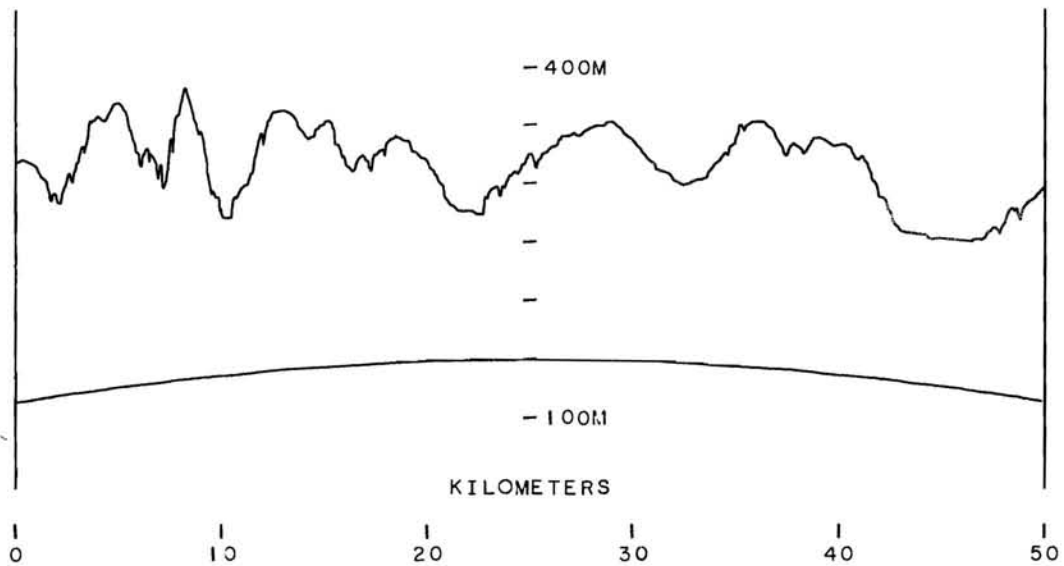
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 53
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 53
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

TREES .5MI AHEAD TO HORIZON. PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -134.0 | | -6.0 | | 0.0 | 145.0 | 52.6 |
| (HLLS, 50, 20,V,V,AV,1) | 17.0 | -135.4 | | -6.0 | | 0.0 | 146.4 | 54.0 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 50, 50,V,V, P,1) | 19.4 | ** | | -9.1 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 19.4 | ** | | -5.2 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 19.4 | -135.4 | | -9.1 | | 0.8 | 144.9 | 44.5 |
| (HLLS, 50, 50,V,V,AV,2) | 19.4 | -137.0 | | -5.2 | | 0.9 | 150.3 | 49.9 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -4.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -134.7 | 7.6 | -6.5 | 1.4 | 2.7 | 151.7 | 45.3 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -143.0 | 7.6 | -4.6 | 1.4 | 2.7 | 161.9 | 55.5 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -138.9 | 7.6 | -2.5 | 1.4 | 2.7 | 159.9 | 53.5 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -132.9 | 7.6 | -6.5 | 1.4 | 2.7 | 149.9 | 43.5 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -6.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -143.0 | 9.4 | -6.7 | 1.3 | 2.7 | 161.7 | 55.3 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

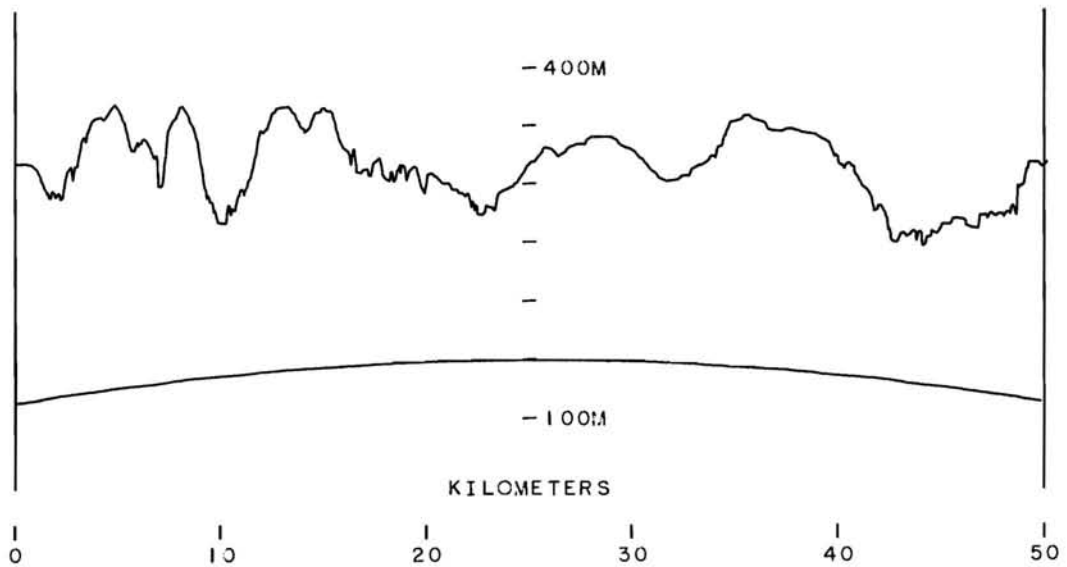
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 54
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 54

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

40FT LINES 20FT AHEAD, DENSE 50FT WOODS FROM .4MI AHEAD TO HORIZON.
TREES AND CREEK FROM 100FT RIGHT FRONT TO .3MI FRONT. PHONE LINES
BEHIND. CLEAR FIELD FOR .2MI LEFT FRONT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.6 | ** | | -10.3 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.6 | ** | | -5.5 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -8.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -5.8 | 1.4 | 2.7 | 155.6 | 49.2 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

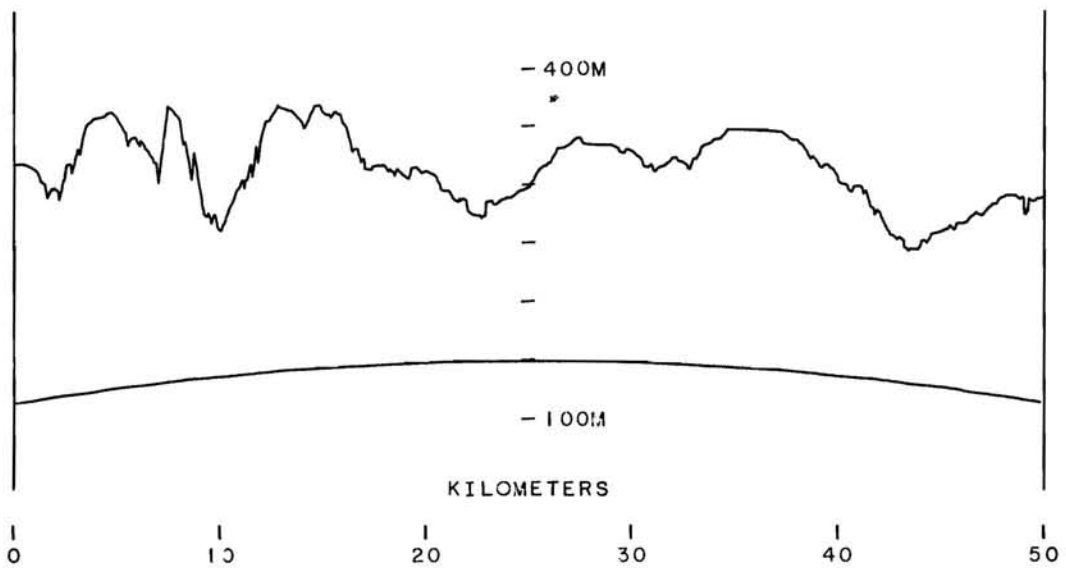
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 55
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 55

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-07-64

40FT LINES 20FT AHEAD. SCATTERED TREES AND BUILDINGS FROM 50FT AHEAD
TO 600FT. WOODS FROM .3MI AHEAD TO HORIZON. SCATTERED TREES ON RIGHT
AND LEFT. PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|------|------|-------|------|------|------|----|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.7 | ** | | -9.9 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.7 | ** | | -5.5 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

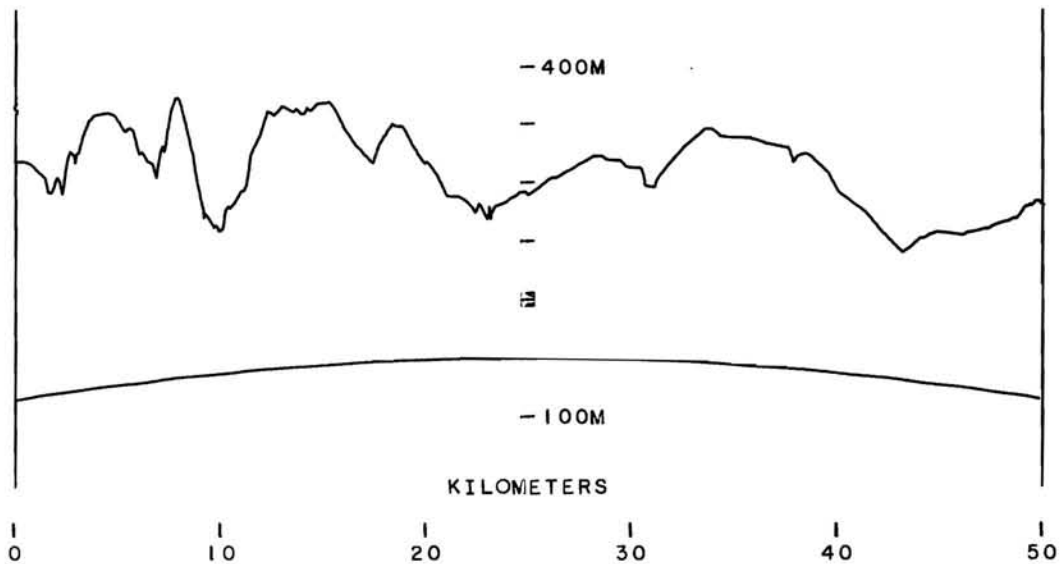
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 56
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 56

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

40FT LINES 30FT AHEAD, SMALL SCATTERED TREES AHEAD, HOUSE ON HILL 200
 FT AHEAD WITH TREES AND ROLLING TERRAIN BEYOND. SCATTERED TREES AND
 VALLEY TO LEFT, ROAD TO RIGHT, PHONE LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.5 | ** | | -12.6 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | 17.5 | -130.6 | | -12.6 | | 0.0 | 135.5 | 43.1 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.8 | ** | | -9.5 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.8 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 20.8 | -137.0 | | -9.5 | | 0.8 | 147.5 | 47.1 |
| (HLLS, 50, 50,V,V,AV,2) | 20.8 | -131.0 | | -5.5 | | 0.9 | 145.4 | 45.0 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -21.4 | 1.4 | 2.7 | 143.6 | 37.2 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -7.5 | 1.4 | 2.7 | 157.5 | 51.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -6.0 | 1.4 | 2.7 | 156.4 | 50.0 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -21.4 | 1.4 | 2.7 | 141.0 | 34.6 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -137.0 | 7.6 | -7.5 | 1.4 | 2.7 | 153.0 | 46.6 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -135.4 | 7.6 | -6.0 | 1.4 | 2.7 | 152.9 | 46.5 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -141.5 | 9.4 | -5.2 | 1.3 | 2.7 | 161.7 | 55.4 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -138.9 | 9.4 | -4.4 | 1.3 | 2.7 | 159.9 | 53.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -135.4 | 9.4 | -5.2 | 1.3 | 2.7 | 155.6 | 49.2 |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

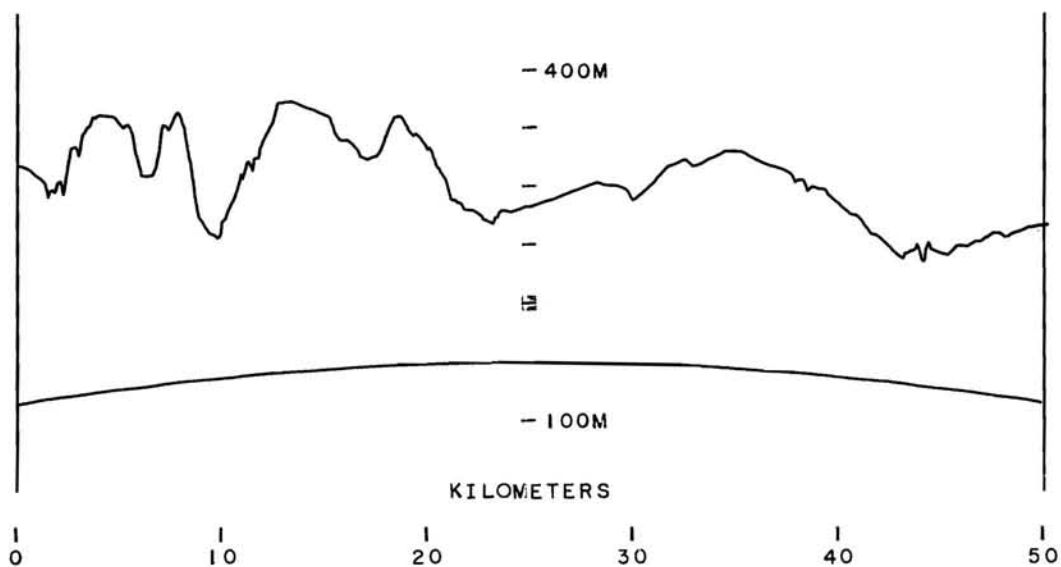
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 57

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 57

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

15FT PHONE LINES 20FT AHEAD, SCATTERED 40FT TREES .4MI AHEAD TO HORIZON. ELETRIC LINES BEHIND. CLEAR TO RIGHT AND LEFT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 18.1 | -127.5 | | -6.7 | | 0.0 | 138.9 | 46.5 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | -137.0 | | -9.9 | | 0.8 | 147.2 | 46.8 |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | -133.5 | | -5.2 | | 0.9 | 148.3 | 47.9 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -5.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -6.5 | 1.4 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | 0.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

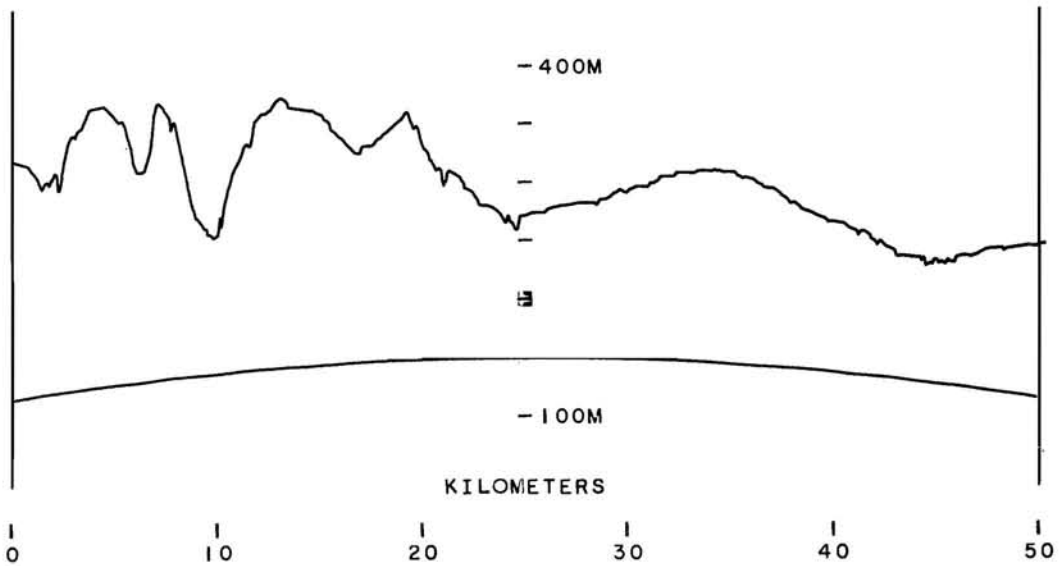
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 58
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 58
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

20FT PHONE LINES 20FT AHEAD; ALSO CROSSING .1MI AHEAD; SCATTERED
TREES FROM .6MI AHEAD TO HORIZON. SMALL CHURCH TO RIGHT; ELECTRIC
LINES BEHIND; CLEAR WITH HOUSE FOR .2MI TO LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | ** | | -8.5 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | ** | | -5.5 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -16.7 | 1.4 | 2.7 | 148.3 | 41.9 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -6.6 | 1.4 | 2.7 | 155.8 | 49.4 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.0 | 7.6 | -6.5 | 1.4 | 2.7 | 154.0 | 47.6 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

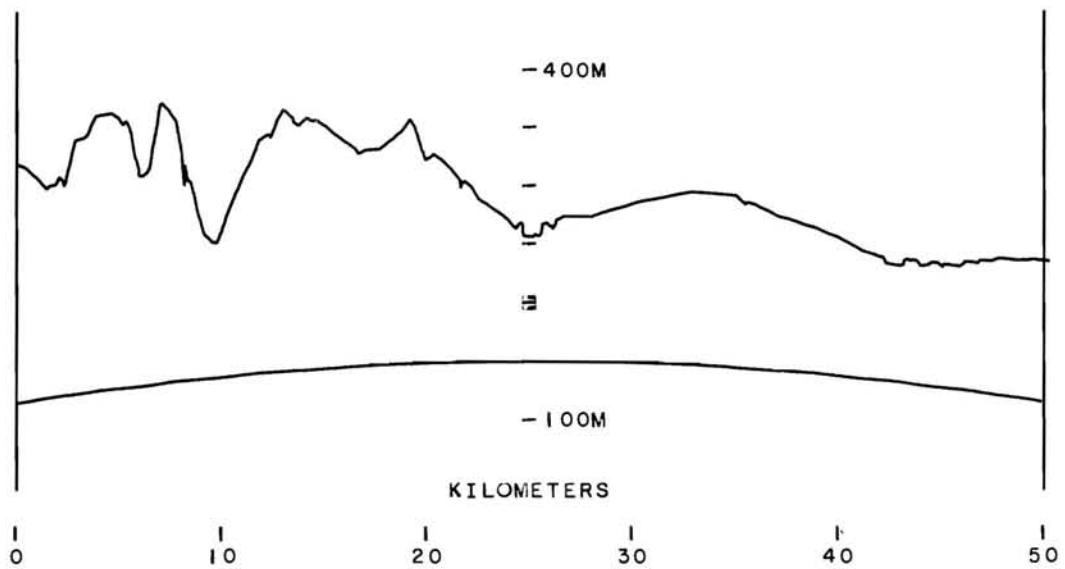
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B ≈ 50KM SITE 59
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 59

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

BUILDINGS AND HIGH-LINES FROM .2MI TO .7MI AHEAD; THEN WOODS TO HORIZON. CLEAR TO RIGHT AND LEFT, HIGH LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.1 | -131.0 | | -8.6 | | 0.0 | 141.5 | 49.1 |
| (HLLS, 50, 20,V,V,AV,1) | 19.1 | -131.0 | | -8.6 | | 0.0 | 141.5 | 49.1 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | -133.5 | | -12.3 | | 0.8 | 141.3 | 40.9 |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | -133.5 | | -5.2 | | 0.9 | 148.3 | 47.9 |
| (HLLS, 50, 50,V,V,AV,1) | 20.9 | -133.5 | | -12.3 | | 0.8 | 141.3 | 40.9 |
| (HLLS, 50, 50,V,V,AV,2) | 20.9 | -133.5 | | -5.2 | | 0.9 | 148.3 | 47.9 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -7.6 | 1.4 | 2.7 | 154.8 | 48.4 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -137.0 | 7.6 | -4.2 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.9 | 7.6 | -6.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -7.6 | 1.4 | 2.7 | 154.8 | 48.4 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -137.0 | 7.6 | -4.2 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -131.9 | 7.6 | -6.5 | 1.4 | 2.7 | 148.9 | 42.5 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -0.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

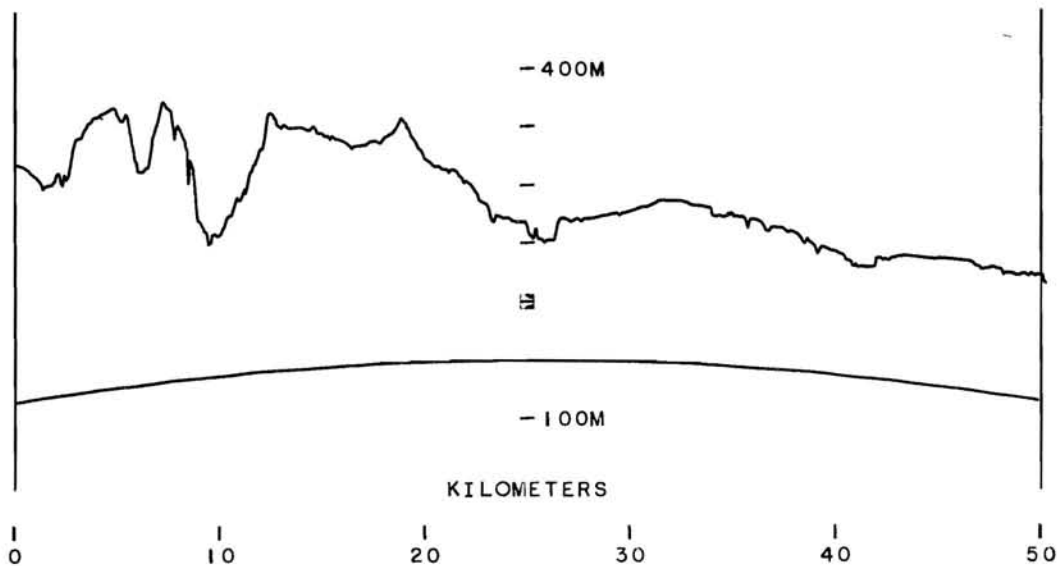
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 60
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 60

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

40FT LINES 100FT AHEAD, 20FT TREES AND BUILDINGS .2MI AHEAD TO HORIZON. ROAD AND LINES ON RIGHT, PHONE LINES BEHIND, CLEAR ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.8 | ** | | -13.0 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | ** | | -7.9 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -14.4 | 1.4 | 2.7 | 150.6 | 44.2 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -6.1 | 1.4 | 2.7 | 156.3 | 49.9 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -6.7 | 1.4 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

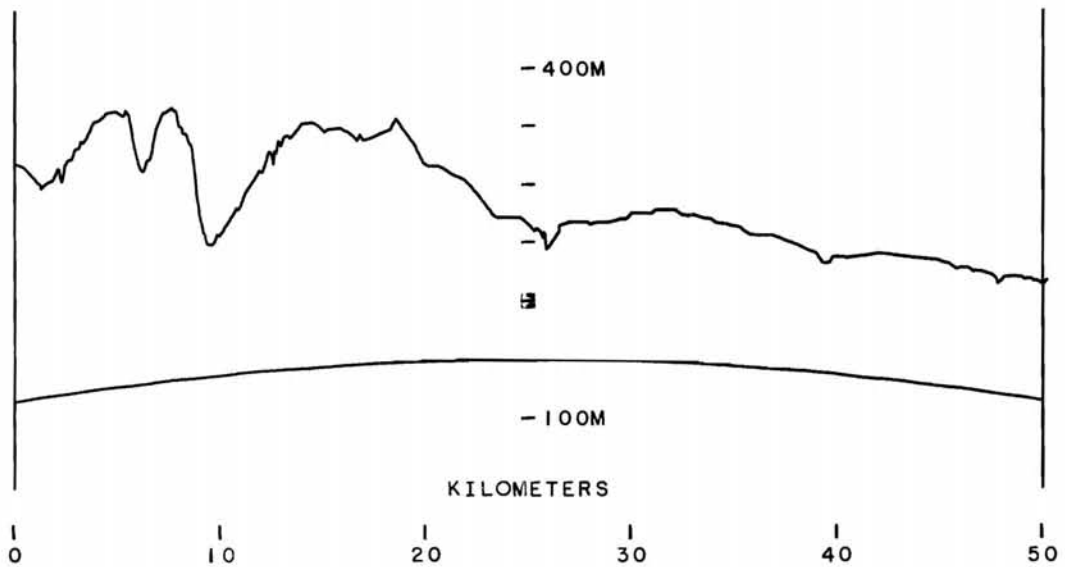
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 61
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 61

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

ROW OF 100FT TREES ON FRONT AND RIGHT FROM 50FT TO .1MI, THEN SCATTERED 40FT TREES TO HORIZON, SCATTERED TREES ALSO ON LEFT. ROAD ON RIGHT, LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 20.3 | -133.5 | | -5.3 | | 0.0 | 148.5 | 56.1 |
| (HLLS, 50, 20,V,V,AV,1) | 20.3 | -133.5 | | -5.3 | | 0.0 | 148.5 | 56.1 |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | -137.0 | | -5.3 | | 0.8 | 151.8 | 51.4 |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | -135.4 | | -8.1 | | 0.9 | 147.3 | 46.9 |
| (HLLS, 50, 50,V,V,AV,1) | 20.9 | -137.0 | | -5.3 | | 0.8 | 151.8 | 51.4 |
| (HLLS, 50, 50,V,V,AV,2) | 20.9 | -135.4 | | -8.1 | | 0.9 | 147.3 | 46.9 |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -8.7 | 1.4 | 2.7 | 153.7 | 47.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -141.5 | 7.6 | -4.7 | 1.4 | 2.7 | 160.3 | 53.9 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -8.7 | 1.4 | 2.7 | 153.7 | 47.3 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -141.5 | 7.6 | -4.7 | 1.4 | 2.7 | 160.3 | 53.9 |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -8.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -8.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

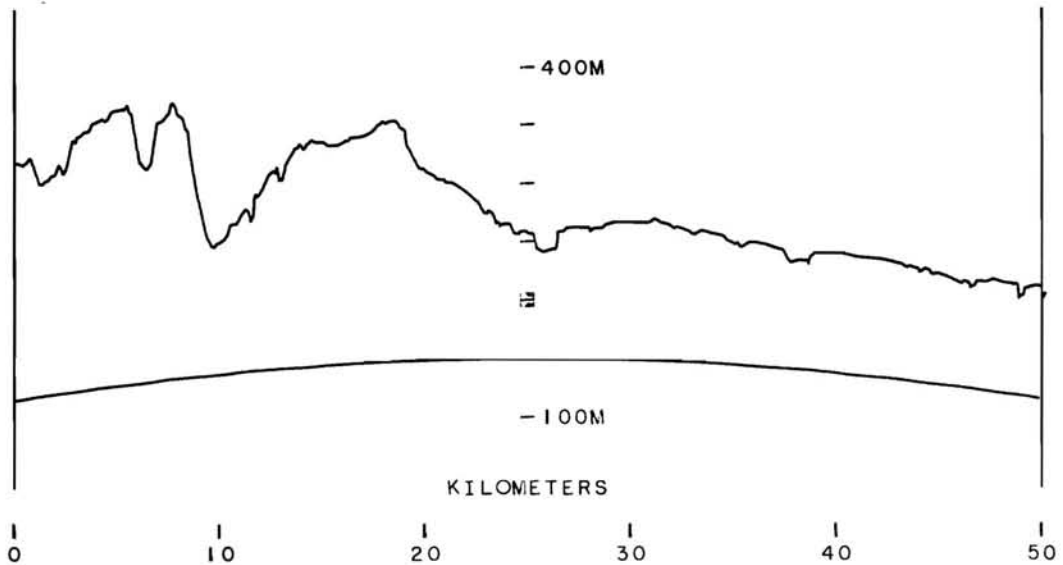
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 62
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 62

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

30FT PHONE LINES 40FT AHEAD; SCATTERED 50FT TREES AT 100FT BECOMING
WOODS AT 500FT AND GOING TO .2MI WITH SCATTERED TREES BEYOND. ROAD
AND LINES ON RIGHT; SCATTERED TREES ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|------|------|------|------|------|------|----|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.7 | ** | | -5.0 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.7 | ** | | -8.2 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | * | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -4.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -8.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

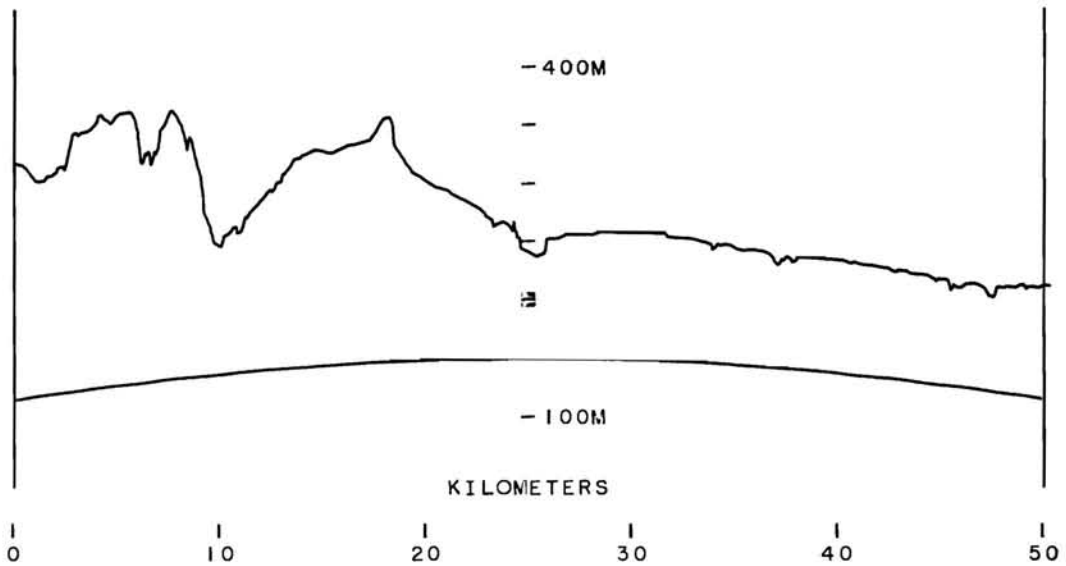
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 63
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 63

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

ROAD AHEAD. 100FT TREES AND SMALLER ONES .2MI AHEAD WHERE ROAD AND
LINES CROSS; SCATTERED TREES BEYOND; TO HORIZON. 20FT PHONE LINES
FOLLOWING ROAD ON RIGHT; BUILDINGS .2MI ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 20.8 | -128.7 | | -13.0 | | 0.0 | 136.5 | 44.1 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.8 | ** | | -7.5 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.8 | -131.0 | | -5.5 | | 0.9 | 145.4 | 45.0 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -11.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -5.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -133.5 | 7.6 | -7.2 | 1.4 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

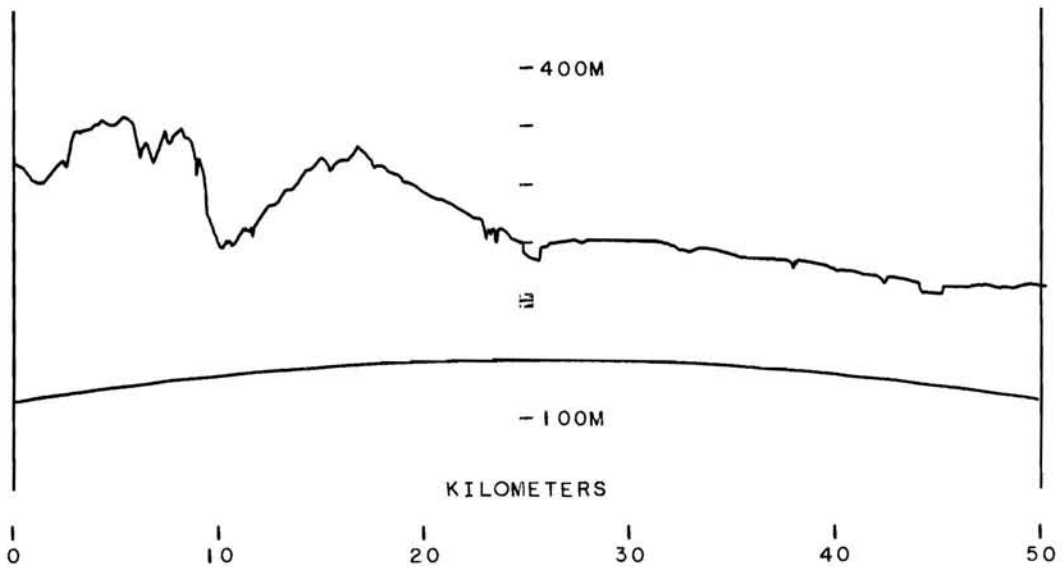
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 64
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 64

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-08-64

ROAD WITH 40FT LINES ON LEFT TO .5MI FRONT, HOUSES AND SCATTERED
TREES TO LEFT OF ROAD. OBERLIN ON LEFT, CLEAR ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.6 | -135.4 | | -7.9 | | 0.0 | 149.1 | 56.7 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.6 | ** | | -8.1 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.6 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -12.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -5.5 | 1.4 | 2.7 | 159.5 | 53.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

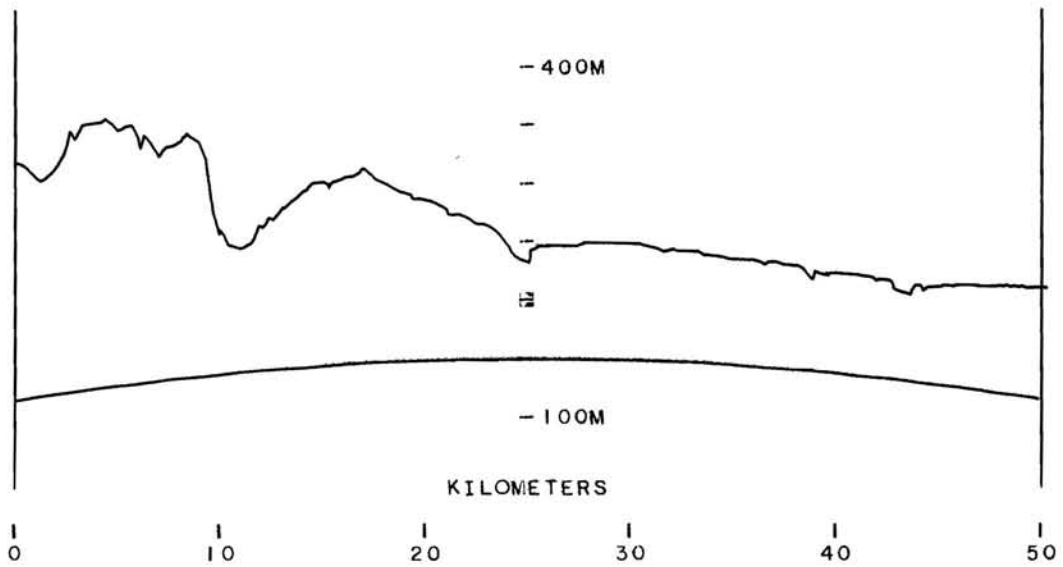
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B = 50KM SITE 65

CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 65

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-09-64

ROAD FOR 1MI AHEAD WITH 60FT LINES ON RIGHT OF IT AND 20FT LINES ON
LEFT. LINES AND BUILDINGS .2MI AHEAD. SCATTERED TREES .1MI ON RIGHT
AND LEFT. FLAT TERRAIN.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.0 | -129.0 | | -13.0 | | 0.0 | 138.0 | 45.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.5 | -138.9 | | -7.4 | | 0.8 | 151.2 | 50.8 |
| (HLLS, 50, 50,V,V, P,2) | 20.5 | -128.7 | | -5.5 | | 0.9 | 142.8 | 42.4 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -10.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | -137.9 | 7.6 | -4.4 | 1.4 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -134.0 | 7.6 | -7.1 | 1.4 | 2.7 | 150.4 | 44.0 |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -4.8 | 1.3 | 2.7 | 157.6 | 51.2 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -134.0 | 9.4 | -5.2 | 1.3 | 2.7 | 154.2 | 47.8 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

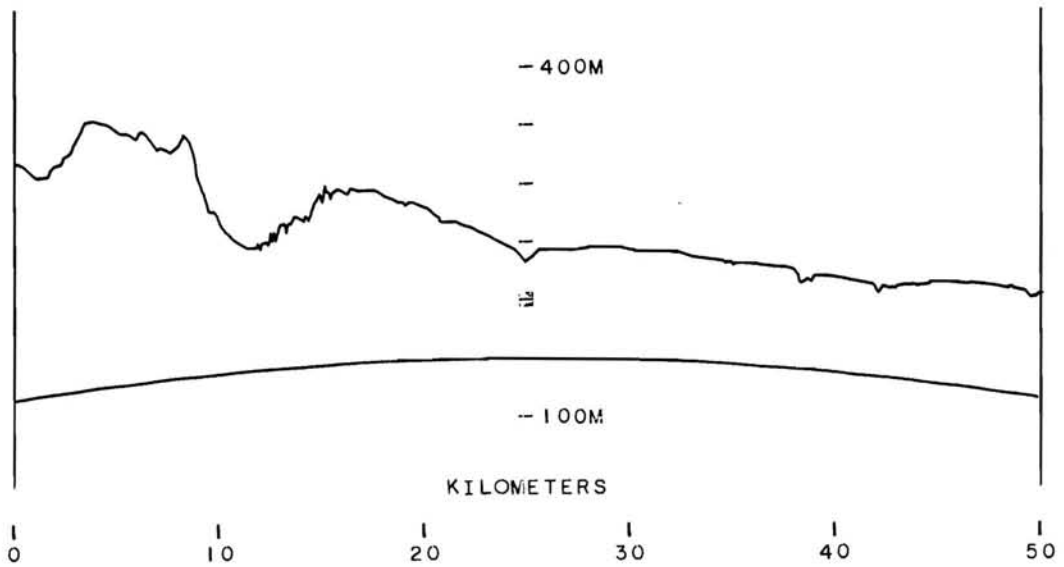
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 66
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 66

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-09-64

20FT PHONE LINES, ROAD AHEAD, 100FT TREE 300FT AHEAD, ROAD AND 40FT
LINES CROSS .1MI AHEAD, SCATTERED TREES .4MI AHEAD TO HORIZON. LINES
TO LEFT, CLEAR TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.3 | -130.6 | | -12.9 | | 0.0 | 140.0 | 47.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.1 | ** | | -7.3 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.1 | -137.0 | | -5.4 | | 0.9 | 150.8 | 50.4 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -9.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -3.8 | 1.4 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -6.8 | 1.4 | 2.7 | 147.7 | 41.3 |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -4.9 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -137.0 | 9.4 | -5.2 | 1.3 | 2.7 | 157.2 | 50.8 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

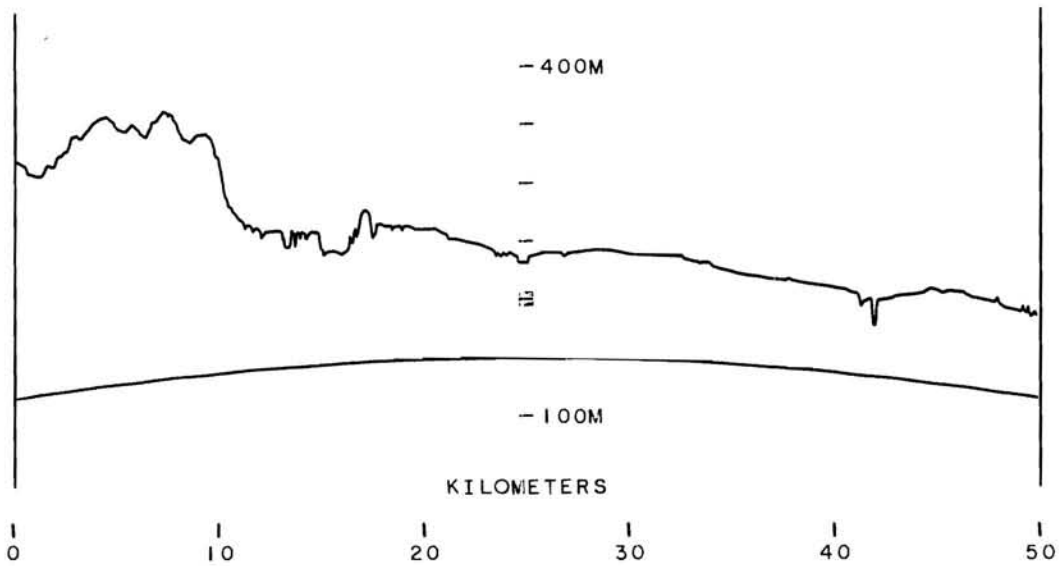
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 67
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 67
CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-09-64

30FT LINES 10FT AHEAD, SCATTERED BRUSH AT .1MI AND .2MI TO HORIZON.
BUILDINGS 300FT ON LEFT.

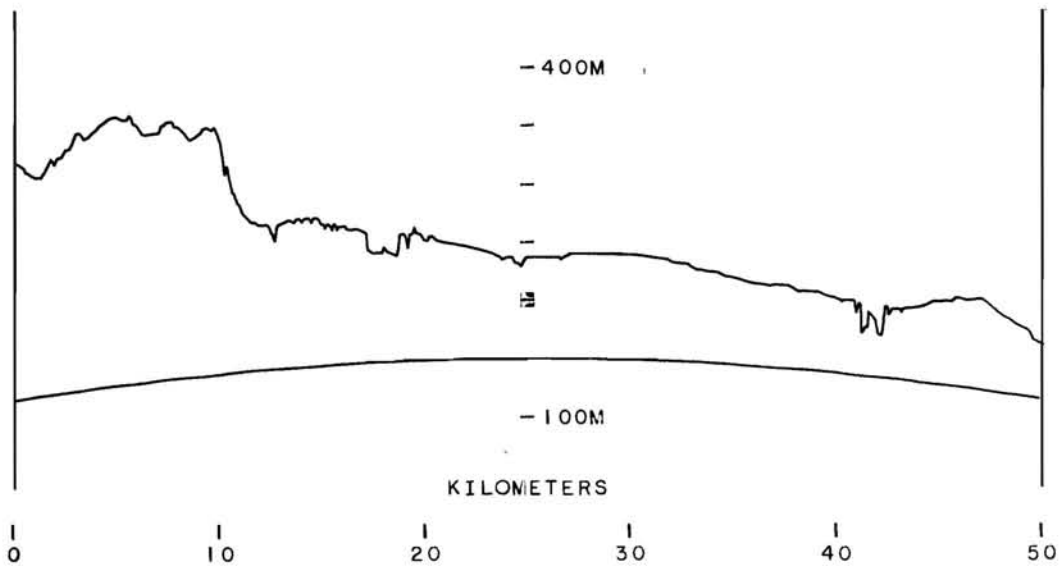
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|------------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20, V, V, P, 1) | 15.7 | -134.7 | | -13.1 | | 0.0 | 137.3 | 44.9 |
| (HLLS, 50, 20, V, V, AV, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20, V, V, AH, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, P, 1) | 19.7 | ** | | -15.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50, V, V, P, 2) | 19.7 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50, V, V, AV, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, AV, 2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, AH, 1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50, V, V, AH, 2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100, V, V, P, 3) | 20.0 | ** | 7.6 | -16.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100, V, V, P, 6) | 20.0 | ** | 7.6 | -8.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100, V, V, P, 9) | 20.0 | -141.5 | 7.6 | -6.0 | 1.4 | 2.7 | 159.0 | 52.6 |
| (HLLS, 50, 100, V, V, AV, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AV, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AV, 9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AH, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AH, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, V, V, AH, 9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, P, 3) | 20.0 | ** | 9.4 | -1.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100, H, H, P, 6) | 20.0 | -141.5 | 9.4 | -5.5 | 1.3 | 2.7 | 161.4 | 55.0 |
| (HLLS, 50, 100, H, H, P, 9) | 20.0 | -137.9 | 9.4 | -6.1 | 1.3 | 2.7 | 157.2 | 50.8 |
| (HLLS, 50, 100, H, H, AV, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AV, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AV, 9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AH, 3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AH, 6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100, H, H, AH, 9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 68
CENTRAL TRANSMITTER

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO MILLS B= 50KM SITE 68

CENTRAL TRANSMITTER

DATE AND COMMENTS OF OPERATOR

04-09-64

HOUSE, BUILDINGS, AND LINES 300FT AHEAD, SCATTERED 50FT TREES FROM THERE TO .5MI, THEN MORE SCATTERED BUILDINGS, FOLLOWED BY TREES TO HORIZON. HOUSE 200FT ON RIGHT, ROAD AND LINES TO LEFT, 40FT LINES TO REAR.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 16.0 | -135.4 | | -12.4 | | 0.0 | 139.0 | 46.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 19.5 | ** | | -7.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 19.5 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | ** | 7.6 | -8.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | ** | 7.6 | -2.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -8.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | ** | 7.6 | -2.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -4.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | ** | 9.4 | -4.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | ** | 9.4 | -4.0 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | ** | 9.4 | -5.4 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |

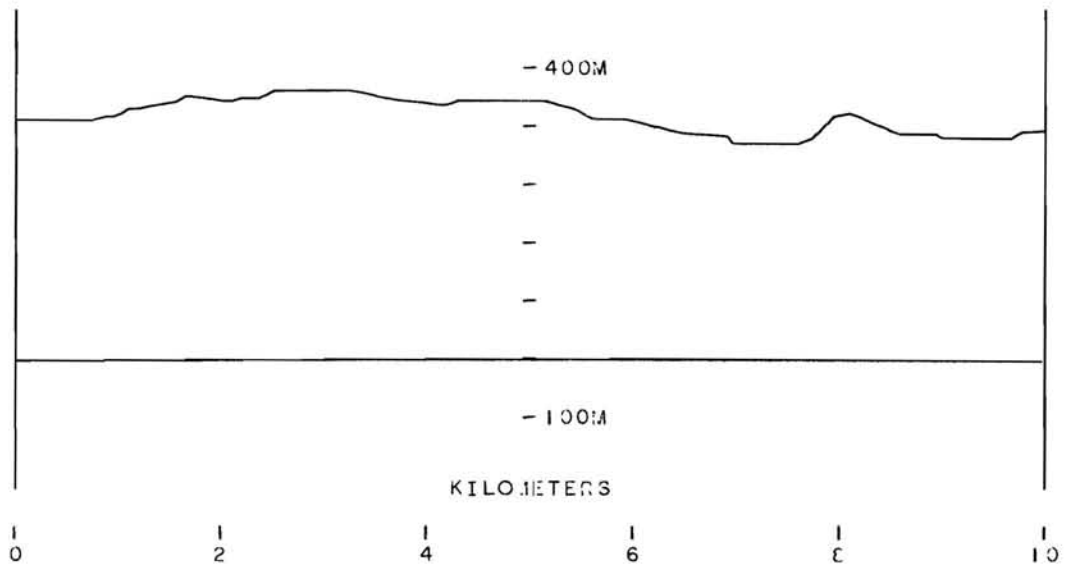
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 11
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 11

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-04-63

SLIGHT RISE. POWER LINES TOWARD TRANSMITTER, 50FT TREES 20FT NORTH,
HOUSE 100FT SOUTH.

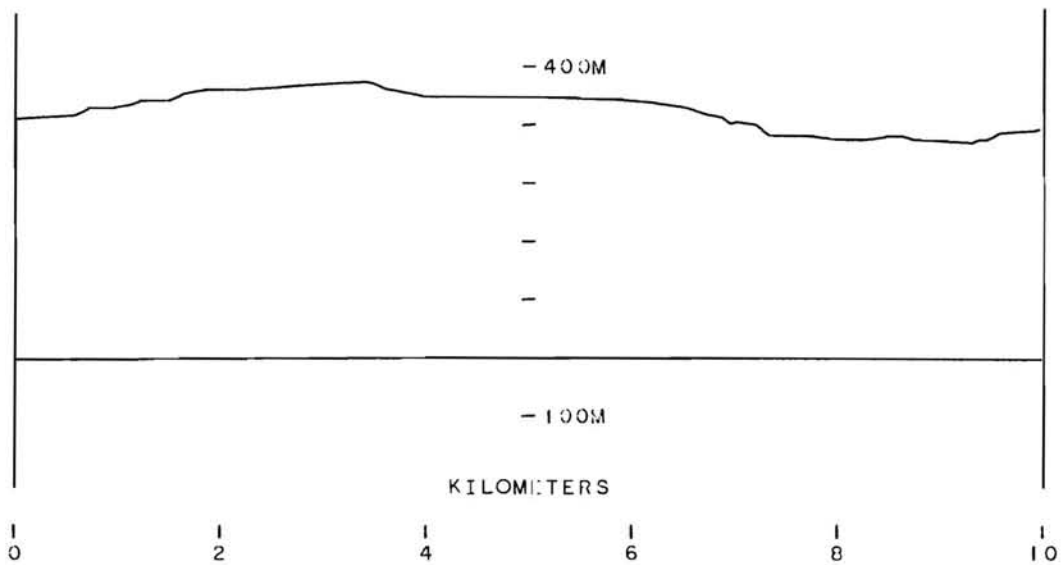
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 18.9 | -112.9 | | -13.0 | | 0.0 | 118.8 | 40.3 |
| (HLLS, 10, 20,V,V,AV,1) | 18.9 | -112.9 | | -13.0 | | 0.0 | 118.8 | 40.3 |
| (HLLS, 10, 20,V,V,AH,1) | 18.9 | -111.0 | | -13.0 | | 0.0 | 116.9 | 38.5 |
| (HLLS, 10, 50,V,V, P,1) | 20.9 | -117.0 | | -7.8 | | 0.8 | 129.3 | 42.9 |
| (HLLS, 10, 50,V,V, P,2) | 20.9 | -116.2 | | -5.5 | | 0.9 | 130.7 | 44.3 |
| (HLLS, 10, 50,V,V,AV,1) | 20.9 | -117.0 | | -7.8 | | 0.8 | 129.3 | 42.9 |
| (HLLS, 10, 50,V,V,AV,2) | 20.9 | -116.2 | | -5.5 | | 0.9 | 130.7 | 44.3 |
| (HLLS, 10, 50,V,V,AH,1) | 20.9 | -112.4 | | -7.8 | | 0.8 | 124.7 | 38.3 |
| (HLLS, 10, 50,V,V,AH,2) | 20.9 | -111.4 | | -5.5 | | 0.9 | 125.9 | 39.4 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -102.2 | 7.6 | -13.4 | 1.4 | 2.7 | 112.3 | 19.8 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -117.0 | 7.6 | -5.8 | 1.4 | 2.7 | 134.7 | 42.3 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -117.4 | 7.6 | -6.8 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -102.2 | 7.6 | -13.4 | 1.4 | 2.7 | 112.3 | 19.8 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -117.0 | 7.6 | -5.8 | 1.4 | 2.7 | 134.7 | 42.3 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -117.4 | 7.6 | -6.8 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -106.1 | 7.6 | -13.4 | 1.4 | 2.7 | 116.2 | 23.8 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -96.2 | 7.6 | -5.8 | 1.4 | 2.7 | 113.9 | 21.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -95.1 | 7.6 | -6.8 | 1.4 | 2.7 | 111.8 | 19.4 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -119.6 | 9.4 | -5.7 | 1.3 | 2.7 | 139.3 | 46.9 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -113.5 | 9.4 | -4.5 | 1.3 | 2.7 | 134.4 | 41.9 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -116.2 | 9.4 | -5.2 | 1.3 | 2.7 | 136.4 | 43.9 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -119.6 | 9.4 | -5.7 | 1.3 | 2.7 | 139.3 | 46.9 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -113.5 | 9.4 | -4.5 | 1.3 | 2.7 | 134.4 | 41.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -116.2 | 9.4 | -5.2 | 1.3 | 2.7 | 136.4 | 43.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -104.9 | 9.4 | -5.7 | 1.3 | 2.7 | 124.6 | 32.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -94.7 | 9.4 | -4.5 | 1.3 | 2.7 | 115.6 | 23.1 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -93.5 | 9.4 | -5.2 | 1.3 | 2.7 | 113.7 | 21.3 |

OHIO HILLS B= 10KM SITE 12

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 12

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-04-63

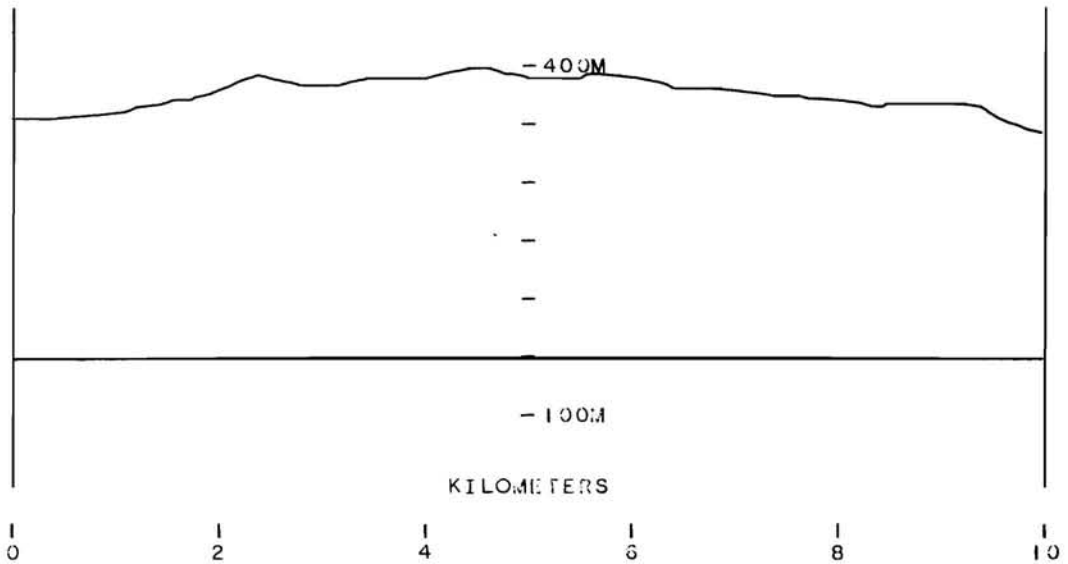
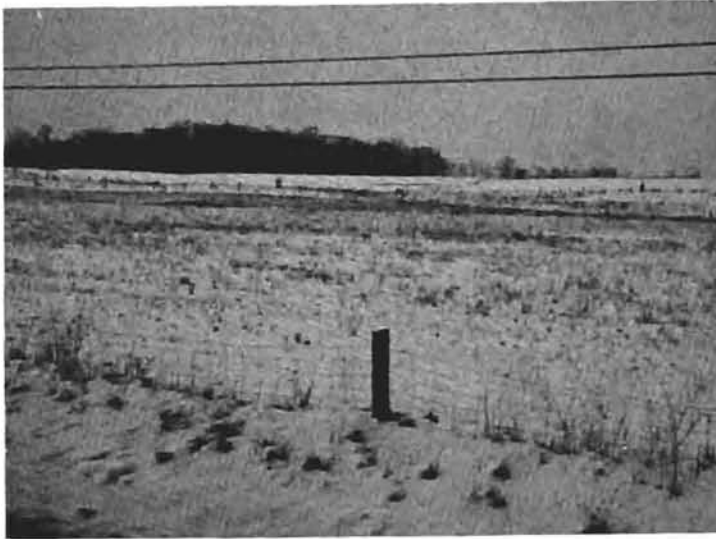
POWER LINES 10FT AHEAD, 50FT TREES 100FT AHEAD, OPEN FIELD BEYOND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 16.5 | -112.9 | | -9.0 | | 0.0 | 120.4 | 41.9 |
| (HLLS, 10, 20,V,V,AV,1) | 16.5 | -110.6 | | -9.0 | | 0.0 | 118.1 | 39.7 |
| (HLLS, 10, 20,V,V,AH,1) | 16.5 | -111.0 | | -9.0 | | 0.0 | 118.5 | 40.1 |
| (HLLS, 10, 50,V,V, P,1) | 20.9 | -112.9 | | -12.7 | | 0.8 | 120.3 | 33.8 |
| (HLLS, 10, 50,V,V, P,2) | 20.9 | -106.6 | | -5.2 | | 0.9 | 121.4 | 35.0 |
| (HLLS, 10, 50,V,V,AV,1) | 20.9 | -111.9 | | -12.7 | | 0.8 | 119.3 | 32.8 |
| (HLLS, 10, 50,V,V,AV,2) | 20.9 | -107.5 | | -5.2 | | 0.9 | 122.3 | 35.9 |
| (HLLS, 10, 50,V,V,AH,1) | 20.9 | -111.9 | | -12.7 | | 0.8 | 119.3 | 32.8 |
| (HLLS, 10, 50,V,V,AH,2) | 20.9 | -106.9 | | -5.2 | | 0.9 | 121.7 | 35.3 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -115.4 | 7.6 | -4.3 | 1.4 | 2.7 | 134.6 | 42.1 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -112.9 | 7.6 | -2.3 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -109.4 | 7.6 | -6.5 | 1.4 | 2.7 | 126.4 | 33.9 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -111.4 | 7.6 | -4.3 | 1.4 | 2.7 | 130.6 | 38.1 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -108.1 | 7.6 | -2.3 | 1.4 | 2.7 | 129.3 | 36.9 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -106.1 | 7.6 | -6.5 | 1.4 | 2.7 | 123.1 | 30.7 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -113.5 | 7.6 | -4.3 | 1.4 | 2.7 | 132.7 | 40.3 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -108.4 | 7.6 | -2.3 | 1.4 | 2.7 | 129.6 | 37.1 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -106.1 | 7.6 | -6.5 | 1.4 | 2.7 | 123.1 | 30.7 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -106.9 | 9.4 | 0.0 | 1.3 | 2.7 | 132.3 | 39.8 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -102.4 | 9.4 | -6.3 | 1.3 | 2.7 | 121.5 | 29.0 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -102.5 | 9.4 | -6.8 | 1.3 | 2.7 | 121.1 | 28.7 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -104.1 | 9.4 | 0.0 | 1.3 | 2.7 | 129.5 | 37.1 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -104.9 | 9.4 | -6.3 | 1.3 | 2.7 | 124.0 | 31.5 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -98.9 | 9.4 | -6.8 | 1.3 | 2.7 | 117.5 | 25.0 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -101.7 | 9.4 | 0.0 | 1.3 | 2.7 | 127.1 | 34.6 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -103.9 | 9.4 | -6.3 | 1.3 | 2.7 | 123.0 | 30.5 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -98.7 | 9.4 | -6.8 | 1.3 | 2.7 | 117.3 | 24.8 |

OHIO HILLS B= 10KM SITE 13
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 13

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

10-05-63

CLEAR FIELDS TO 100FT TREES 1/2MI AHEAD. POWER LINE 30FT AHEAD.

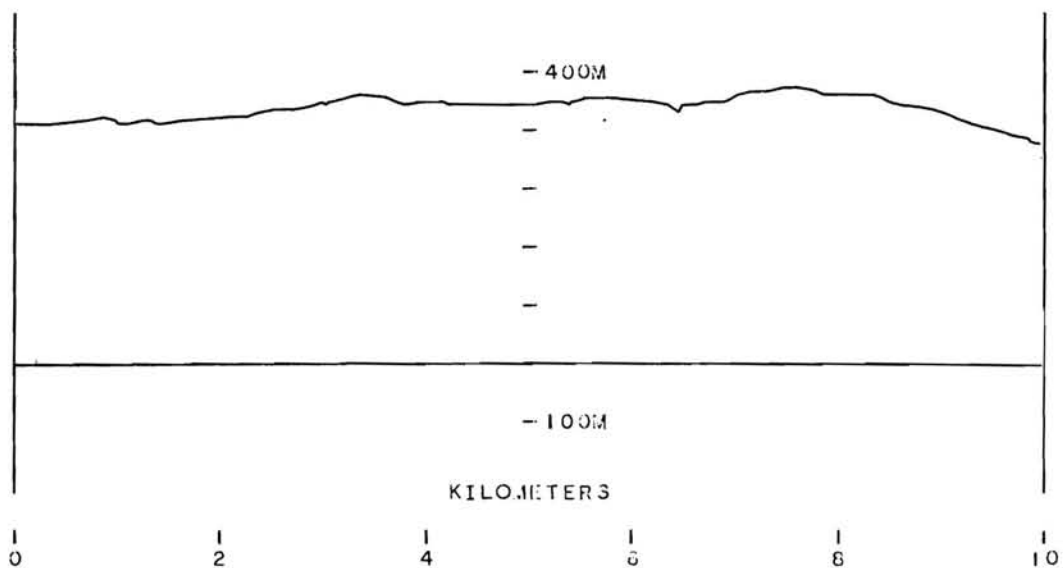
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 17.0 | -127.5 | | -10.0 | | 0.0 | 134.5 | 56.1 |
| (HLLS, 10, 20,V,V,AV,1) | 17.0 | -127.5 | | -10.0 | | 0.0 | 134.5 | 56.1 |
| (HLLS, 10, 20,V,V,AH,1) | 17.0 | -128.4 | | -10.0 | | 0.0 | 135.4 | 56.9 |
| (HLLS, 10, 50,V,V, P,1) | 20.0 | -130.6 | | -10.7 | | 0.8 | 139.1 | 52.7 |
| (HLLS, 10, 50,V,V, P,2) | 20.0 | -127.6 | | -5.2 | | 0.9 | 141.5 | 55.1 |
| (HLLS, 10, 50,V,V,AV,1) | 20.0 | -130.6 | | -10.7 | | 0.8 | 139.1 | 52.7 |
| (HLLS, 10, 50,V,V,AV,2) | 20.0 | -127.6 | | -5.2 | | 0.9 | 141.5 | 55.1 |
| (HLLS, 10, 50,V,V,AH,1) | 20.0 | -129.0 | | -10.7 | | 0.8 | 137.5 | 51.1 |
| (HLLS, 10, 50,V,V,AH,2) | 20.0 | -127.5 | | -5.2 | | 0.9 | 141.4 | 54.9 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -129.4 | 7.6 | -6.0 | 1.4 | 2.7 | 146.9 | 54.4 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -123.0 | 7.6 | -1.3 | 1.4 | 2.7 | 145.2 | 52.8 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -120.1 | 7.6 | -3.6 | 1.4 | 2.7 | 140.0 | 47.6 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -129.4 | 7.6 | -6.0 | 1.4 | 2.7 | 146.9 | 54.4 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -123.0 | 7.6 | -1.3 | 1.4 | 2.7 | 145.2 | 52.8 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -120.1 | 7.6 | -3.6 | 1.4 | 2.7 | 140.0 | 47.6 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -125.9 | 7.6 | -6.0 | 1.4 | 2.7 | 143.4 | 50.9 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -120.4 | 7.6 | -1.3 | 1.4 | 2.7 | 142.6 | 50.1 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -118.4 | 7.6 | -3.6 | 1.4 | 2.7 | 138.3 | 45.8 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -123.6 | 9.4 | -0.9 | 1.3 | 2.7 | 148.1 | 55.7 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -118.9 | 9.4 | -6.2 | 1.3 | 2.7 | 138.1 | 45.6 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -116.2 | 9.4 | -4.3 | 1.3 | 2.7 | 137.3 | 44.9 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -123.6 | 9.4 | -0.9 | 1.3 | 2.7 | 148.1 | 55.7 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -118.9 | 9.4 | -6.2 | 1.3 | 2.7 | 138.1 | 45.6 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -116.2 | 9.4 | -4.3 | 1.3 | 2.7 | 137.3 | 44.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -121.4 | 9.4 | -0.9 | 1.3 | 2.7 | 145.9 | 53.4 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -119.5 | 9.4 | -6.2 | 1.3 | 2.7 | 138.7 | 46.3 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -115.8 | 9.4 | -4.3 | 1.3 | 2.7 | 136.9 | 44.5 |

OHIO HILLS B= 10KM SITE 14

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 14

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-05-63

15FT EMBANKMENT TOWARD TRANSMITTER, POWER LINES 25FT AWAY, ROW OF 50
FT TREES 1/4MI TOWARD TRANSMITTER.

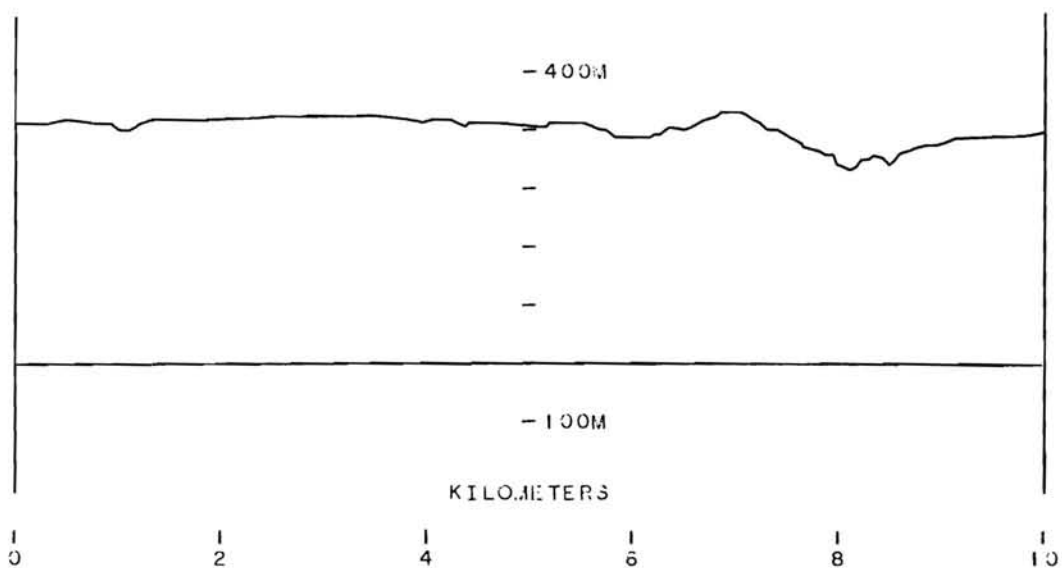
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 16.0 | -129.0 | | -13.0 | | 0.0 | 132.0 | 53.6 |
| (HLLS, 10, 20,V,V,AV,1) | 16.0 | -129.0 | | -13.0 | | 0.0 | 132.0 | 53.6 |
| (HLLS, 10, 20,V,V,AH,1) | 16.0 | -126.1 | | -13.0 | | 0.0 | 129.1 | 50.7 |
| (HLLS, 10, 50,V,V, P,1) | 15.2 | -129.4 | | -8.2 | | 0.8 | 135.6 | 49.1 |
| (HLLS, 10, 50,V,V, P,2) | 15.2 | -126.4 | | -5.5 | | 0.9 | 135.2 | 48.8 |
| (HLLS, 10, 50,V,V,AV,1) | 15.2 | -129.4 | | -8.2 | | 0.8 | 135.6 | 49.1 |
| (HLLS, 10, 50,V,V,AV,2) | 15.2 | -126.4 | | -5.5 | | 0.9 | 135.2 | 48.8 |
| (HLLS, 10, 50,V,V,AH,1) | 15.2 | -124.9 | | -8.2 | | 0.8 | 131.1 | 44.6 |
| (HLLS, 10, 50,V,V,AH,2) | 15.2 | -122.2 | | -5.5 | | 0.9 | 131.0 | 44.6 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -124.5 | 7.6 | -15.2 | 1.4 | 2.7 | 132.8 | 40.4 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -117.4 | 7.6 | -6.4 | 1.4 | 2.7 | 134.5 | 42.1 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -116.2 | 7.6 | -6.6 | 1.4 | 2.7 | 133.1 | 40.6 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -124.5 | 7.6 | -15.2 | 1.4 | 2.7 | 132.8 | 40.4 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -117.4 | 7.6 | -6.4 | 1.4 | 2.7 | 134.5 | 42.1 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -116.2 | 7.6 | -6.6 | 1.4 | 2.7 | 133.1 | 40.6 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -123.7 | 7.6 | -15.2 | 1.4 | 2.7 | 132.0 | 39.6 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -120.1 | 7.6 | -6.4 | 1.4 | 2.7 | 137.2 | 44.8 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -116.8 | 7.6 | -6.6 | 1.4 | 2.7 | 133.7 | 41.3 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -121.7 | 9.4 | -5.7 | 1.3 | 2.7 | 141.4 | 48.9 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -112.4 | 9.4 | -4.4 | 1.3 | 2.7 | 133.4 | 40.9 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -108.4 | 9.4 | -5.2 | 1.3 | 2.7 | 128.6 | 36.1 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -121.7 | 9.4 | -5.7 | 1.3 | 2.7 | 141.4 | 48.9 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -112.4 | 9.4 | -4.4 | 1.3 | 2.7 | 133.4 | 40.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -108.4 | 9.4 | -5.2 | 1.3 | 2.7 | 128.6 | 36.1 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -112.9 | 9.4 | -5.7 | 1.3 | 2.7 | 132.6 | 40.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -110.6 | 9.4 | -4.4 | 1.3 | 2.7 | 131.6 | 39.2 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -107.2 | 9.4 | -5.2 | 1.3 | 2.7 | 127.4 | 34.9 |

OHIO HILLS B= 10KM SITE 15

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 15

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-06-63

ROW OF 100FT TREES 150FT AHEAD, BARN 250FT RIGHT. SHOOTING THROUGH
POWER LINES WITH POLE TRANSMITTER. LEVEL FIELD FOR 1MI BEYOND TREES.

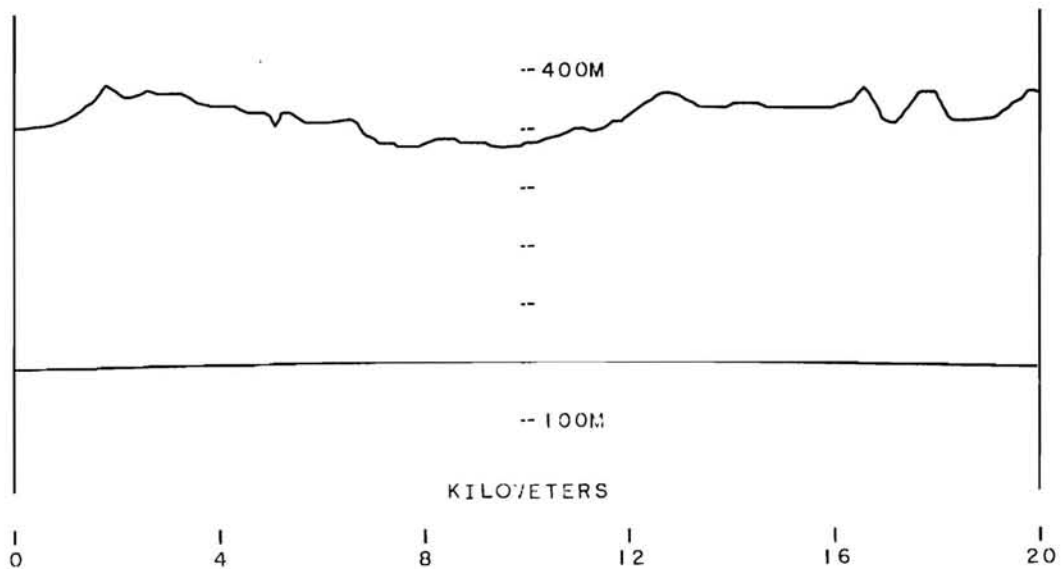
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 20.8 | -114.7 | | -12.4 | | 0.0 | 123.1 | 44.7 |
| (HLLS, 10, 20,V,V,AV,1) | 20.8 | -124.1 | | -12.4 | | 0.0 | 132.5 | 54.1 |
| (HLLS, 10, 20,V,V,AH,1) | 20.8 | -121.9 | | -12.4 | | 0.0 | 130.3 | 51.8 |
| (HLLS, 10, 50,V,V, P,1) | 15.1 | -111.9 | | -10.4 | | 0.8 | 115.8 | 29.3 |
| (HLLS, 10, 50,V,V, P,2) | 15.1 | -109.4 | | -5.5 | | 0.9 | 118.1 | 31.6 |
| (HLLS, 10, 50,V,V,AV,1) | 15.1 | -120.1 | | -10.4 | | 0.8 | 124.0 | 37.6 |
| (HLLS, 10, 50,V,V,AV,2) | 15.1 | -109.0 | | -5.5 | | 0.9 | 117.7 | 31.3 |
| (HLLS, 10, 50,V,V,AH,1) | 15.1 | -116.6 | | -10.4 | | 0.8 | 120.5 | 34.1 |
| (HLLS, 10, 50,V,V,AH,2) | 15.1 | -112.4 | | -5.5 | | 0.9 | 121.1 | 34.6 |
| (HLLS, 10, 100,V,V, P,3) | 20.0 | -120.1 | 7.6 | -11.7 | 1.4 | 2.7 | 131.9 | 39.5 |
| (HLLS, 10, 100,V,V, P,6) | 20.0 | -109.4 | 7.6 | -7.1 | 1.4 | 2.7 | 125.8 | 33.3 |
| (HLLS, 10, 100,V,V, P,9) | 20.0 | -106.9 | 7.6 | -6.2 | 1.4 | 2.7 | 124.2 | 31.7 |
| (HLLS, 10, 100,V,V,AV,3) | 20.0 | -120.1 | 7.6 | -11.7 | 1.4 | 2.7 | 131.9 | 39.5 |
| (HLLS, 10, 100,V,V,AV,6) | 20.0 | -106.6 | 7.6 | -7.1 | 1.4 | 2.7 | 123.0 | 30.6 |
| (HLLS, 10, 100,V,V,AV,9) | 20.0 | -104.9 | 7.6 | -6.2 | 1.4 | 2.7 | 122.2 | 29.7 |
| (HLLS, 10, 100,V,V,AH,3) | 20.0 | -106.9 | 7.6 | -11.7 | 1.4 | 2.7 | 118.7 | 26.2 |
| (HLLS, 10, 100,V,V,AH,6) | 20.0 | -103.9 | 7.6 | -7.1 | 1.4 | 2.7 | 120.3 | 27.8 |
| (HLLS, 10, 100,V,V,AH,9) | 20.0 | -102.7 | 7.6 | -6.2 | 1.4 | 2.7 | 120.0 | 27.5 |
| (HLLS, 10, 100,H,H, P,3) | 20.0 | -127.2 | 9.4 | -0.7 | 1.3 | 2.7 | 151.9 | 59.4 |
| (HLLS, 10, 100,H,H, P,6) | 20.0 | -104.3 | 9.4 | -6.3 | 1.3 | 2.7 | 123.4 | 31.0 |
| (HLLS, 10, 100,H,H, P,9) | 20.0 | -100.1 | 9.4 | -6.3 | 1.3 | 2.7 | 119.2 | 26.8 |
| (HLLS, 10, 100,H,H,AV,3) | 20.0 | -108.4 | 9.4 | -0.7 | 1.3 | 2.7 | 133.1 | 40.6 |
| (HLLS, 10, 100,H,H,AV,6) | 20.0 | -101.4 | 9.4 | -6.3 | 1.3 | 2.7 | 120.5 | 28.0 |
| (HLLS, 10, 100,H,H,AV,9) | 20.0 | -100.1 | 9.4 | -6.3 | 1.3 | 2.7 | 119.2 | 26.8 |
| (HLLS, 10, 100,H,H,AH,3) | 20.0 | -115.4 | 9.4 | -0.7 | 1.3 | 2.7 | 140.1 | 47.6 |
| (HLLS, 10, 100,H,H,AH,6) | 20.0 | -104.9 | 9.4 | -6.3 | 1.3 | 2.7 | 124.0 | 31.5 |
| (HLLS, 10, 100,H,H,AH,9) | 20.0 | -102.7 | 9.4 | -6.3 | 1.3 | 2.7 | 121.8 | 29.3 |

OHIO HILLS B= 20KM SITE 11

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 11

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-11-63

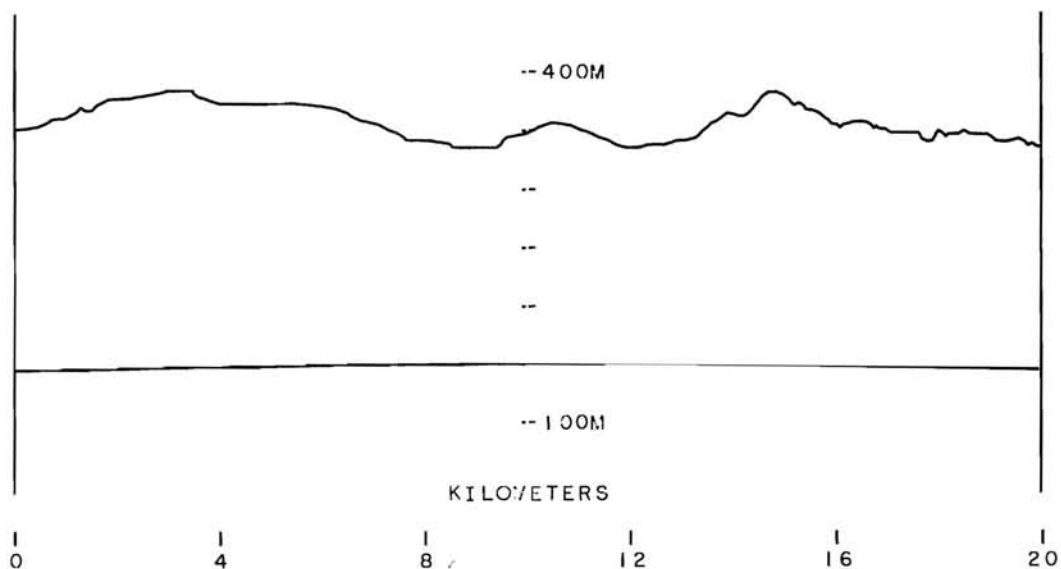
50FT RARE TREES 10FT AHEAD, VERY DENSE FOR 1/2MI.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 20.0 | -119.5 | | -5.2 | | 0.0 | 134.3 | 49.8 |
| (HLLS, 20, 20,V,V,AV,1) | 20.0 | -119.5 | | -5.2 | | 0.0 | 134.3 | 49.8 |
| (HLLS, 20, 20,V,V,AH,1) | 20.0 | -120.7 | | -5.2 | | 0.0 | 135.5 | 51.0 |
| (HLLS, 20, 50,V,V, P,1) | 20.9 | -117.9 | | -4.6 | | 0.8 | 133.4 | 40.9 |
| (HLLS, 20, 50,V,V, P,2) | 20.9 | -124.9 | | -3.5 | | 0.9 | 141.4 | 48.9 |
| (HLLS, 20, 50,V,V,AV,1) | 20.9 | -117.9 | | -4.6 | | 0.8 | 133.4 | 40.9 |
| (HLLS, 20, 50,V,V,AV,2) | 20.9 | -124.9 | | -3.5 | | 0.9 | 141.4 | 48.9 |
| (HLLS, 20, 50,V,V,AH,1) | 20.9 | -117.0 | | -4.6 | | 0.8 | 132.5 | 40.0 |
| (HLLS, 20, 50,V,V,AH,2) | 20.9 | -118.4 | | -3.5 | | 0.9 | 134.9 | 42.4 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -120.7 | 7.6 | -8.3 | 1.4 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -116.2 | 7.6 | -4.0 | 1.4 | 2.7 | 135.7 | 37.2 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -116.8 | 7.6 | -4.1 | 1.4 | 2.7 | 136.2 | 37.7 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -120.7 | 7.6 | -8.3 | 1.4 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -116.2 | 7.6 | -4.0 | 1.4 | 2.7 | 135.7 | 37.2 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -116.8 | 7.6 | -4.1 | 1.4 | 2.7 | 136.2 | 37.7 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -124.9 | 7.6 | -8.3 | 1.4 | 2.7 | 140.1 | 41.6 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -120.1 | 7.6 | -4.0 | 1.4 | 2.7 | 139.6 | 41.1 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -118.9 | 7.6 | -4.1 | 1.4 | 2.7 | 138.3 | 39.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -119.5 | 9.4 | -7.6 | 1.3 | 2.7 | 137.3 | 38.8 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -111.0 | 9.4 | -4.0 | 1.3 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -115.0 | 9.4 | -4.5 | 1.3 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -119.5 | 9.4 | -7.6 | 1.3 | 2.7 | 137.3 | 38.8 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -111.0 | 9.4 | -4.0 | 1.3 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -115.0 | 9.4 | -4.5 | 1.3 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -117.0 | 9.4 | -7.6 | 1.3 | 2.7 | 134.8 | 36.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -109.4 | 9.4 | -4.0 | 1.3 | 2.7 | 130.8 | 32.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -109.0 | 9.4 | -4.5 | 1.3 | 2.7 | 129.9 | 31.4 |

OHIO HILLS H= 20KM SITE 12
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 12

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-18-63

SITE IS ON HILLTOP, HOUSE 300FT AHEAD, 30FT PINES 30FT TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 18.0 | -129.0 | | -9.6 | | 0.0 | 137.4 | 52.9 |
| (HLLS, 20, 20,V,V,AV,1) | 18.0 | -129.0 | | -9.6 | | 0.0 | 137.4 | 52.9 |
| (HLLS, 20, 20,V,V,AH,1) | 18.0 | -129.0 | | -9.6 | | 0.0 | 137.4 | 52.9 |
| (HLLS, 20, 50,V,V, P,1) | 20.9 | ** | | -11.2 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V, P,2) | 20.9 | -132.9 | | -5.2 | | 0.9 | 147.7 | 55.2 |
| (HLLS, 20, 50,V,V,AV,1) | 20.9 | -130.2 | | -11.2 | | 0.8 | 139.1 | 46.6 |
| (HLLS, 20, 50,V,V,AV,2) | 20.9 | -123.9 | | -5.2 | | 0.9 | 138.7 | 46.2 |
| (HLLS, 20, 50,V,V,AH,1) | 20.9 | ** | | -11.2 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V,AH,2) | 20.9 | -132.9 | | -5.2 | | 0.9 | 147.7 | 55.2 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.9 | 7.6 | -6.0 | 1.4 | 2.7 | 150.4 | 51.9 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -128.7 | 7.6 | -1.1 | 1.4 | 2.7 | 151.1 | 52.6 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -124.9 | 7.6 | -3.2 | 1.4 | 2.7 | 145.2 | 46.7 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -129.8 | 7.6 | -6.0 | 1.4 | 2.7 | 147.3 | 48.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -126.1 | 7.6 | -1.1 | 1.4 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -123.0 | 7.6 | -3.2 | 1.4 | 2.7 | 143.3 | 44.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -132.9 | 7.6 | -6.0 | 1.4 | 2.7 | 150.4 | 51.9 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -128.7 | 7.6 | -1.1 | 1.4 | 2.7 | 151.1 | 52.6 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -124.9 | 7.6 | -3.2 | 1.4 | 2.7 | 145.2 | 46.7 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -129.0 | 9.4 | -0.6 | 1.3 | 2.7 | 153.8 | 55.3 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -127.5 | 9.4 | -6.4 | 1.3 | 2.7 | 146.5 | 48.0 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -117.9 | 9.4 | -4.3 | 1.3 | 2.7 | 139.0 | 40.5 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | -0.6 | 1.3 | 2.7 | 164.9 | 66.4 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -129.8 | 9.4 | -6.4 | 1.3 | 2.7 | 148.8 | 50.3 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -122.2 | 9.4 | -4.3 | 1.3 | 2.7 | 143.3 | 44.8 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -129.0 | 9.4 | -0.6 | 1.3 | 2.7 | 153.8 | 55.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -127.5 | 9.4 | -6.4 | 1.3 | 2.7 | 146.5 | 48.0 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -117.9 | 9.4 | -4.3 | 1.3 | 2.7 | 139.0 | 40.5 |

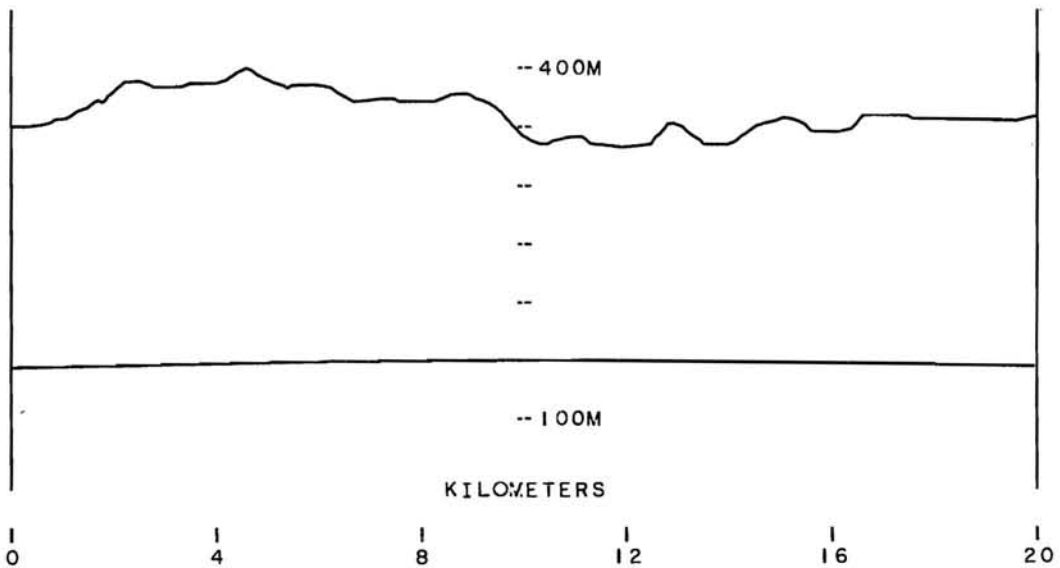
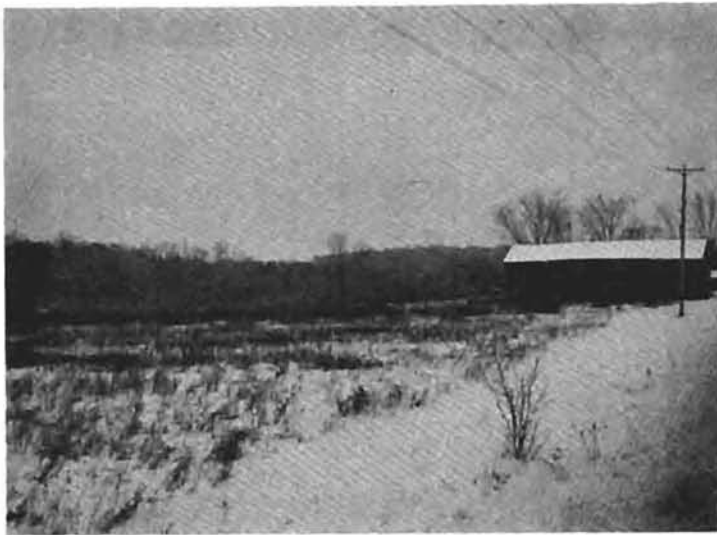
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS R= 20KM SITE 13

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 13

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-12-63

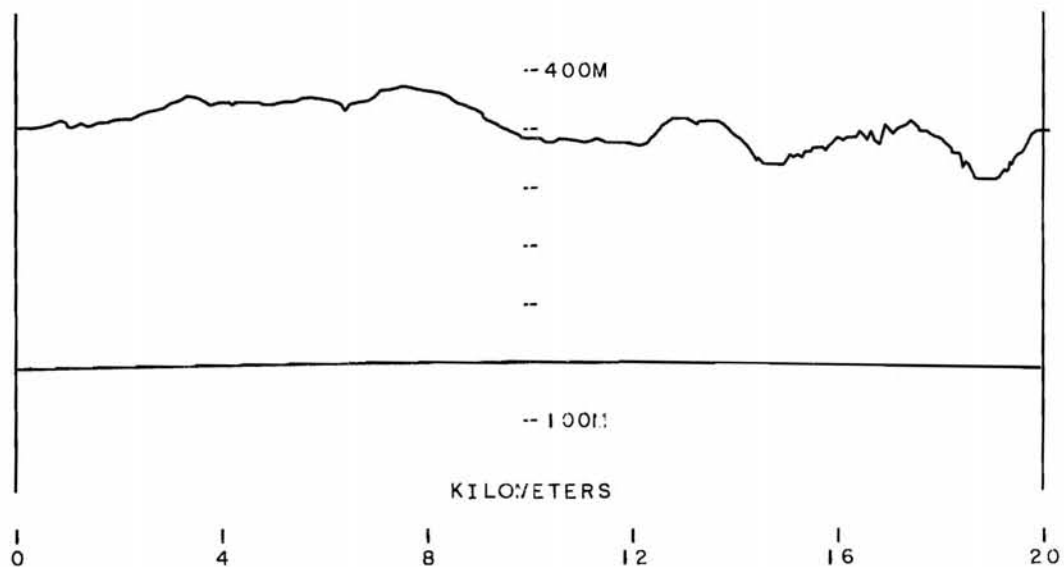
HEAVY 100FT TREES 1/4MI AHEAD, POWER LINES 10FT AHEAD, BUILDING 300FT
ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.0 | -131.9 | | -12.4 | | 0.0 | 136.5 | 52.0 |
| (HLLS, 20, 20,V,V,AV,1) | 17.0 | -129.0 | | -12.4 | | 0.0 | 133.6 | 49.1 |
| (HLLS, 20, 20,V,V,AH,1) | 17.0 | -129.0 | | -12.4 | | 0.0 | 133.6 | 49.1 |
| (HLLS, 20, 50,V,V, P,1) | 20.0 | -132.9 | | -11.3 | | 0.8 | 140.8 | 48.3 |
| (HLLS, 20, 50,V,V, P,2) | 20.0 | -122.2 | | -5.5 | | 0.9 | 135.8 | 43.3 |
| (HLLS, 20, 50,V,V,AV,1) | 20.0 | -135.4 | | -11.3 | | 0.8 | 143.3 | 50.8 |
| (HLLS, 20, 50,V,V,AV,2) | 20.0 | -124.5 | | -5.5 | | 0.9 | 138.1 | 45.6 |
| (HLLS, 20, 50,V,V,AH,1) | 20.0 | -135.4 | | -11.3 | | 0.8 | 143.3 | 50.8 |
| (HLLS, 20, 50,V,V,AH,2) | 20.0 | -124.5 | | -5.5 | | 0.9 | 138.1 | 45.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -119.5 | 7.6 | -23.5 | 1.4 | 2.7 | 119.5 | 21.0 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -111.9 | 7.6 | -8.4 | 1.4 | 2.7 | 127.0 | 28.5 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -112.9 | 7.6 | -5.7 | 1.4 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -116.6 | 7.6 | -23.5 | 1.4 | 2.7 | 116.6 | 18.1 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -116.6 | 7.6 | -8.4 | 1.4 | 2.7 | 131.7 | 33.2 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -117.0 | 7.6 | -5.7 | 1.4 | 2.7 | 134.8 | 36.3 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -116.6 | 7.6 | -23.5 | 1.4 | 2.7 | 116.6 | 18.1 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -116.6 | 7.6 | -8.4 | 1.4 | 2.7 | 131.7 | 33.2 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -117.0 | 7.6 | -5.7 | 1.4 | 2.7 | 134.8 | 36.3 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -126.6 | 9.4 | -4.4 | 1.3 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -121.4 | 9.4 | -4.5 | 1.3 | 2.7 | 142.3 | 43.8 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -120.7 | 9.4 | -5.4 | 1.3 | 2.7 | 140.7 | 42.2 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.4 | 9.4 | -4.4 | 1.3 | 2.7 | 144.4 | 45.9 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -121.7 | 9.4 | -4.5 | 1.3 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -121.4 | 9.4 | -5.4 | 1.3 | 2.7 | 141.4 | 42.9 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.4 | 9.4 | -4.4 | 1.3 | 2.7 | 144.4 | 45.9 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -121.7 | 9.4 | -4.5 | 1.3 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -121.4 | 9.4 | -5.4 | 1.3 | 2.7 | 141.4 | 42.9 |

OHIO HILLS B= 20KM SITE 14
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 14

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-16-63

OPEN FIELD WITH 50FT TREES AT 1/4MI.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.5 | -126.1 | | -12.8 | | 0.0 | 130.8 | 46.3 |
| (HLLS, 20, 20,V,V,AV,1) | 17.5 | -130.0 | | -12.8 | | 0.0 | 134.7 | 50.2 |
| (HLLS, 20, 20,V,V, AH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V, P,1) | 15.2 | -131.0 | | -8.6 | | 0.8 | 136.8 | 44.3 |
| (HLLS, 20, 50,V,V, P,2) | 15.2 | -132.9 | | -5.5 | | 0.9 | 141.7 | 49.2 |
| (HLLS, 20, 50,V,V,AV,1) | 15.2 | -129.8 | | -8.6 | | 0.8 | 135.6 | 43.1 |
| (HLLS, 20, 50,V,V,AV,2) | 15.2 | -126.4 | | -5.5 | | 0.9 | 135.2 | 42.7 |
| (HLLS, 20, 50,V,V, AH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V, AH,2) | * | * | | * | | * | * | * |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -129.0 | 7.6 | -17.1 | 1.4 | 2.7 | 135.4 | 36.9 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -121.9 | 7.6 | -6.7 | 1.4 | 2.7 | 138.7 | 40.2 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -118.9 | 7.6 | -6.4 | 1.4 | 2.7 | 136.0 | 37.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -125.9 | 7.6 | -17.1 | 1.4 | 2.7 | 132.3 | 33.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -120.1 | 7.6 | -6.7 | 1.4 | 2.7 | 136.9 | 38.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -118.9 | 7.6 | -6.4 | 1.4 | 2.7 | 136.0 | 37.5 |
| (HLLS, 20,100,V,V, AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V, AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V, AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -121.4 | 9.4 | -5.7 | 1.3 | 2.7 | 141.1 | 42.6 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -112.9 | 9.4 | -4.4 | 1.3 | 2.7 | 133.9 | 35.4 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -108.4 | 9.4 | -5.2 | 1.3 | 2.7 | 128.6 | 30.1 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -117.9 | 9.4 | -5.7 | 1.3 | 2.7 | 137.6 | 39.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -111.4 | 9.4 | -4.4 | 1.3 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -109.0 | 9.4 | -5.2 | 1.3 | 2.7 | 129.2 | 30.7 |
| (HLLS, 20,100,H,H, AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, AH,9) | * | * | * | * | * | * | * | * |

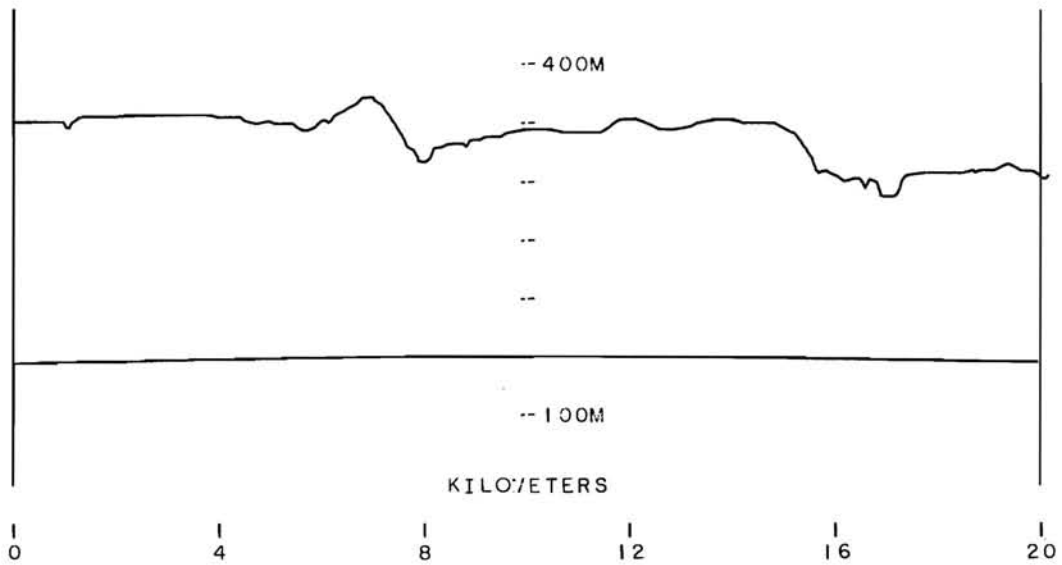
* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 15

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.6H | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 15

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-06-63

SITE NEAR VALLEY BOTTOM, TREES 100FT TOWARD TRANSMITTER. 10FT BANK
ON BOTH SIDES WITH 50FT TREES 15FT EAST. 20FT PINES 50FT WEST.

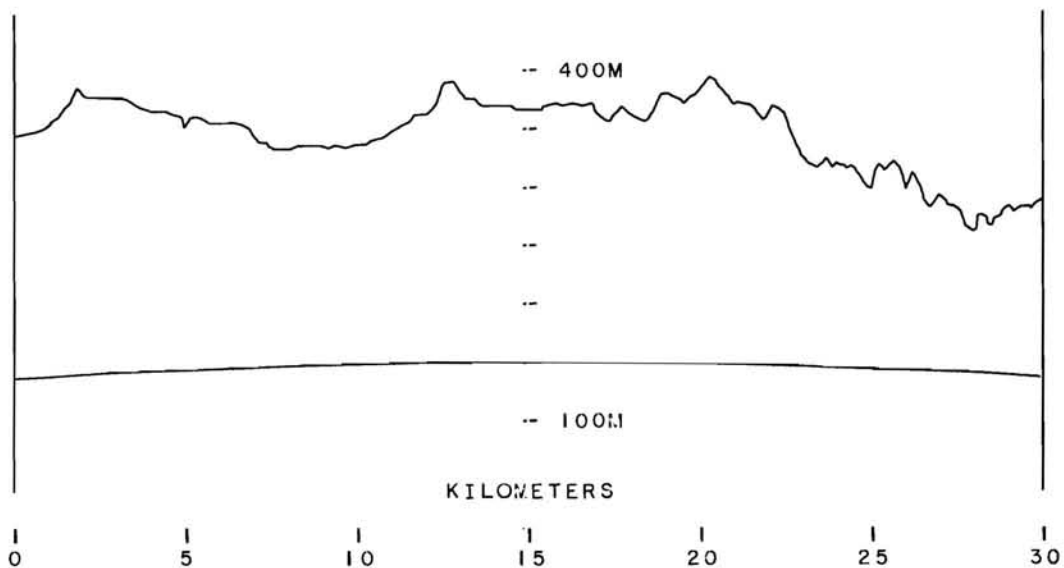
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.6 | -123.9 | | -7.7 | | 0.0 | 135.8 | 51.3 |
| (HLLS, 20, 20,V,V,AV,1) | 19.6 | -123.9 | | -7.7 | | 0.0 | 135.8 | 51.3 |
| (HLLS, 20, 20,V,V,AH,1) | 19.6 | -123.4 | | -7.7 | | 0.0 | 135.3 | 50.8 |
| (HLLS, 20, 50,V,V, P,1) | 15.1 | -128.1 | | -11.2 | | 0.8 | 131.2 | 38.7 |
| (HLLS, 20, 50,V,V, P,2) | 15.1 | -123.0 | | -6.1 | | 0.9 | 131.1 | 38.6 |
| (HLLS, 20, 50,V,V,AV,1) | 15.1 | -130.2 | | -11.2 | | 0.8 | 133.3 | 40.8 |
| (HLLS, 20, 50,V,V,AV,2) | 15.1 | -123.9 | | -6.1 | | 0.9 | 132.0 | 39.5 |
| (HLLS, 20, 50,V,V,AH,1) | 15.1 | -128.1 | | -11.2 | | 0.8 | 131.2 | 38.7 |
| (HLLS, 20, 50,V,V,AH,2) | 15.1 | -123.0 | | -6.1 | | 0.9 | 131.1 | 38.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.9 | 7.6 | -13.3 | 1.4 | 2.7 | 143.1 | 44.6 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -123.4 | 7.6 | -2.4 | 1.4 | 2.7 | 144.5 | 46.0 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -122.8 | 7.6 | -2.6 | 1.4 | 2.7 | 143.7 | 45.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -127.5 | 7.6 | -13.3 | 1.4 | 2.7 | 137.7 | 39.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -120.1 | 7.6 | -2.4 | 1.4 | 2.7 | 141.2 | 42.7 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -118.9 | 7.6 | -2.6 | 1.4 | 2.7 | 139.8 | 41.3 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -129.0 | 7.6 | -13.3 | 1.4 | 2.7 | 139.2 | 40.7 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -123.0 | 7.6 | -2.4 | 1.4 | 2.7 | 144.1 | 45.6 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -121.4 | 7.6 | -2.6 | 1.4 | 2.7 | 142.3 | 43.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -126.6 | 9.4 | -1.6 | 1.3 | 2.7 | 150.4 | 51.9 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -117.0 | 9.4 | -6.5 | 1.3 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -116.3 | 9.4 | -5.8 | 1.3 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -126.4 | 9.4 | -1.6 | 1.3 | 2.7 | 150.2 | 51.7 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -116.6 | 9.4 | -6.5 | 1.3 | 2.7 | 135.5 | 37.0 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -114.0 | 9.4 | -5.8 | 1.3 | 2.7 | 133.6 | 35.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.0 | 9.4 | -1.6 | 1.3 | 2.7 | 146.8 | 48.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.0 | 9.4 | -6.5 | 1.3 | 2.7 | 132.9 | 34.4 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -112.9 | 9.4 | -5.8 | 1.3 | 2.7 | 132.5 | 34.0 |

OHIO HILLS B= 30KM SITE 11

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 11

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-20-63

30 TO 50FT POWER LINES 40FT AHEAD TO LEFT. OPEN ROAD WITH 20FT CRAB
APPLE ORCHARD 30FT TO RIGHT AND LEFT. ROW OF HOUSES 200FT AWAY.

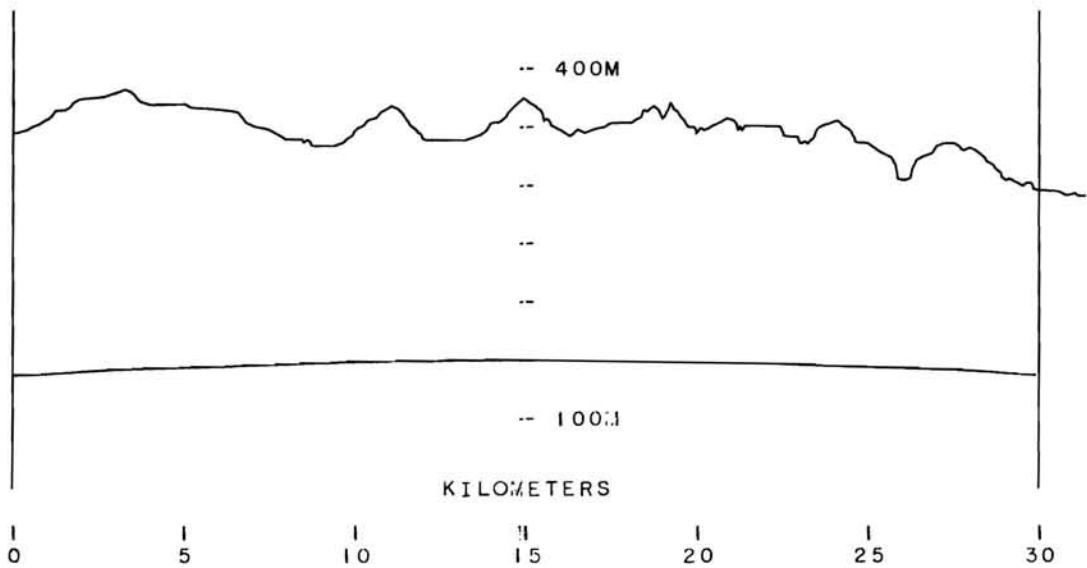
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 20.4 | -127.5 | | -5.2 | | 0.0 | 142.7 | 54.7 |
| (HLLS, 30, 20,V,V,AV,1) | 20.4 | -127.5 | | -5.2 | | 0.0 | 142.7 | 54.7 |
| (HLLS, 30, 20,V,V,AH,1) | 20.4 | -126.4 | | -5.2 | | 0.0 | 141.6 | 53.6 |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -129.0 | | -6.1 | | 0.8 | 143.0 | 47.0 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -131.0 | | -8.5 | | 0.9 | 142.5 | 46.5 |
| (HLLS, 30, 50,V,V,AV,1) | 20.9 | -129.0 | | -6.1 | | 0.8 | 143.0 | 47.0 |
| (HLLS, 30, 50,V,V,AV,2) | 20.9 | -131.0 | | -8.5 | | 0.9 | 142.5 | 46.5 |
| (HLLS, 30, 50,V,V,AH,1) | 20.9 | -129.0 | | -6.1 | | 0.8 | 143.0 | 47.0 |
| (HLLS, 30, 50,V,V,AH,2) | 20.9 | -131.0 | | -8.5 | | 0.9 | 143.4 | 47.4 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.8 | 7.6 | -8.3 | 1.4 | 2.7 | 153.0 | 51.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -4.0 | 1.4 | 2.7 | 154.2 | 52.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.9 | 7.6 | -4.1 | 1.4 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -137.8 | 7.6 | -8.3 | 1.4 | 2.7 | 153.0 | 51.0 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -134.7 | 7.6 | -4.0 | 1.4 | 2.7 | 154.2 | 52.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -131.9 | 7.6 | -4.1 | 1.4 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -138.6 | 7.6 | -8.3 | 1.4 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -4.0 | 1.4 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -130.6 | 7.6 | -4.1 | 1.4 | 2.7 | 150.0 | 48.0 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.2 | 9.4 | -7.6 | 1.3 | 2.7 | 156.0 | 54.0 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -4.0 | 1.3 | 2.7 | 150.4 | 48.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -125.4 | 9.4 | -4.5 | 1.3 | 2.7 | 146.3 | 44.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -138.2 | 9.4 | -7.6 | 1.3 | 2.7 | 156.0 | 54.0 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -129.0 | 9.4 | -4.0 | 1.3 | 2.7 | 150.4 | 48.4 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -125.4 | 9.4 | -4.5 | 1.3 | 2.7 | 146.3 | 44.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.9 | 9.4 | -7.6 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -126.6 | 9.4 | -4.0 | 1.3 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.4 | 9.4 | -4.5 | 1.3 | 2.7 | 144.3 | 42.3 |

OHIO HILLS B= 30KM SITE 12

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 30KM SITE 12

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-17-63

DENSE 60FT WOODS 1/4MI AHEAD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -131.9 | | -4.0 | 0.8 | | 148.0 | 52.0 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -131.9 | | -8.2 | 0.9 | | 143.7 | 47.7 |
| (HLLS, 30, 50,V,V,AV,1) | 20.9 | -131.9 | | -4.0 | 0.8 | | 148.0 | 52.0 |
| (HLLS, 30, 50,V,V,AV,2) | 20.9 | -131.9 | | -8.2 | 0.9 | | 143.7 | 47.7 |
| (HLLS, 30, 50,V,V,AH,1) | 20.9 | -131.9 | | -4.0 | 0.8 | | 148.0 | 52.0 |
| (HLLS, 30, 50,V,V,AH,2) | 20.9 | -131.9 | | -8.2 | 0.9 | | 143.7 | 47.7 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -140.8 | 7.6 | -7.5 | 1.4 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -3.6 | 1.4 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -136.2 | 7.6 | -3.5 | 1.4 | 2.7 | 156.2 | 54.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -140.8 | 7.6 | -7.5 | 1.4 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -138.9 | 7.6 | -3.6 | 1.4 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -136.2 | 7.6 | -3.5 | 1.4 | 2.7 | 156.2 | 54.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -140.8 | 7.6 | -7.5 | 1.4 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -138.9 | 7.6 | -3.6 | 1.4 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -136.2 | 7.6 | -3.5 | 1.4 | 2.7 | 156.2 | 54.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -6.9 | 1.3 | 2.7 | 155.5 | 53.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.0 | 9.4 | -3.5 | 1.3 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -129.4 | 9.4 | -4.0 | 1.3 | 2.7 | 150.8 | 48.8 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -6.9 | 1.3 | 2.7 | 155.5 | 53.5 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -131.0 | 9.4 | -3.5 | 1.3 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -129.4 | 9.4 | -4.0 | 1.3 | 2.7 | 150.8 | 48.8 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -137.0 | 9.4 | -6.9 | 1.3 | 2.7 | 155.5 | 53.5 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -131.0 | 9.4 | -3.5 | 1.3 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -129.4 | 9.4 | -4.0 | 1.3 | 2.7 | 150.8 | 48.8 |

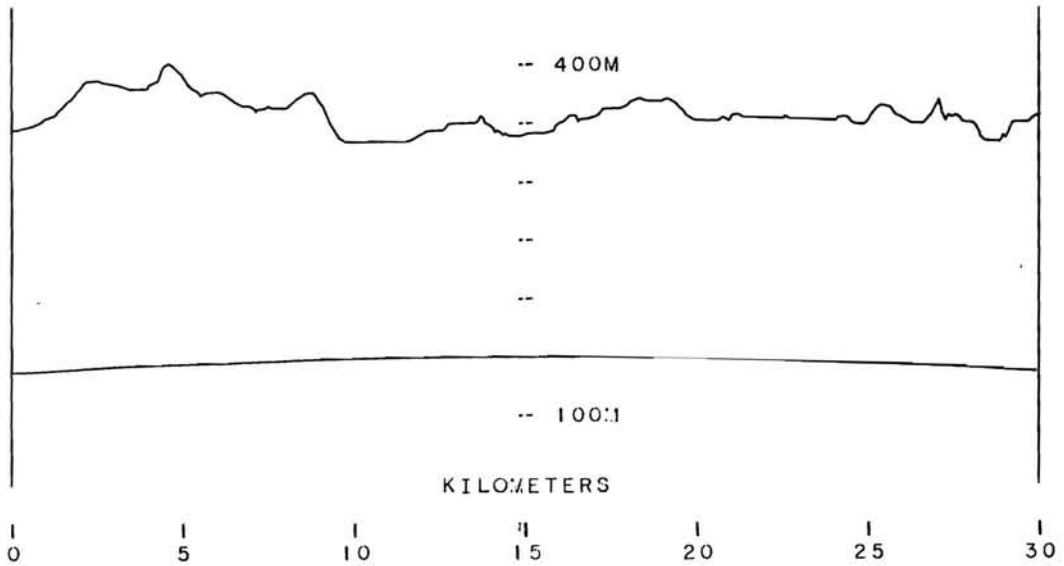
* NO MEASUREMENT ATTEMPTED

OHIO HILLS R= 30KM SITE 13

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 13

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-12-63

ROW OF 50FT TREES 30FT FROM BUS TOWARD TRANSMITTER, HOUSE AND BARN
200FT AHEAD, HEAVY TREES 1MI AHEAD.

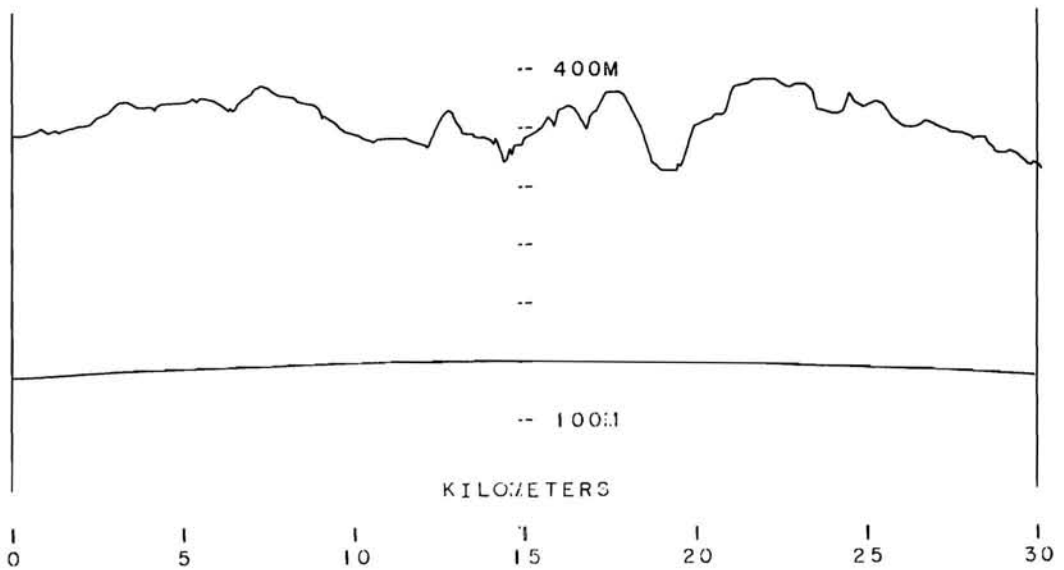
| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -134.0 | | -10.0 | | 0.0 | 141.0 | 53.0 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -138.9 | | -10.0 | | 0.0 | 145.9 | 57.9 |
| (HLLS, 30, 20,V,V,AH,1) | 17.0 | -138.9 | | -10.0 | | 0.0 | 145.9 | 57.9 |
| (HLLS, 30, 50,V,V, P,1) | 20.0 | -137.9 | | -10.7 | | 0.8 | 146.4 | 50.4 |
| (HLLS, 30, 50,V,V, P,2) | 20.0 | -137.0 | | -5.2 | | 0.9 | 150.9 | 54.9 |
| (HLLS, 30, 50,V,V,AV,1) | 20.0 | -135.4 | | -10.7 | | 0.8 | 143.9 | 47.9 |
| (HLLS, 30, 50,V,V,AV,2) | 20.0 | -132.9 | | -5.2 | | 0.9 | 146.8 | 50.8 |
| (HLLS, 30, 50,V,V,AH,1) | 20.0 | -137.0 | | -10.7 | | 0.8 | 145.5 | 49.5 |
| (HLLS, 30, 50,V,V,AH,2) | 20.0 | -131.9 | | -5.2 | | 0.9 | 145.8 | 49.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -6.0 | 1.4 | 2.7 | 154.5 | 52.5 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -1.3 | 1.4 | 2.7 | 154.1 | 52.1 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -129.0 | 7.6 | -3.6 | 1.4 | 2.7 | 148.9 | 46.9 |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -129.4 | 9.4 | -0.9 | 1.3 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -6.2 | 1.3 | 2.7 | 156.2 | 54.2 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.9 | 9.4 | -4.3 | 1.3 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS H= 30KM SITE 14
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 14

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-16-63

SITE IN VALLEY, 50FT TREES, 70FT DEEP, 50FT FROM BUS.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.4 | ** | | -6.1 | | 0.0 | ** | ** |
| (HLLS, 30, 20,V,V,AV,1) | 17.4 | ** | | -6.1 | | 0.0 | ** | ** |
| (HLLS, 30, 20,V,V,AH,1) | 17.4 | ** | | -6.1 | | 0.0 | ** | ** |
| (HLLS, 30, 50,V,V, P,1) | 16.6 | ** | | -8.4 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 16.6 | ** | | -7.1 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | 16.6 | ** | | -8.4 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AV,2) | 16.6 | ** | | -7.1 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AH,1) | 16.6 | ** | | -8.4 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AH,2) | 16.6 | ** | | -7.1 | | 0.9 | ** | ** |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -145.0 | 7.6 | -7.3 | 1.4 | 2.7 | 161.2 | 59.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -2.6 | 1.4 | 2.7 | 162.4 | 60.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -139.5 | 7.6 | -2.4 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -137.0 | 7.6 | -7.3 | 1.4 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -137.9 | 7.6 | -2.6 | 1.4 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -139.5 | 7.6 | -2.4 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -137.0 | 7.6 | -7.3 | 1.4 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -137.9 | 7.6 | -2.6 | 1.4 | 2.7 | 158.8 | 56.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -139.5 | 7.6 | -2.4 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -2.5 | 1.3 | 2.7 | 161.8 | 59.8 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -136.2 | 9.4 | -5.1 | 1.3 | 2.7 | 156.5 | 54.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -134.0 | 9.4 | -5.3 | 1.3 | 2.7 | 154.1 | 52.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.0 | 9.4 | -2.5 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -122.7 | 9.4 | -5.1 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -122.2 | 9.4 | -5.3 | 1.3 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -123.0 | 9.4 | -2.5 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -122.7 | 9.4 | -5.1 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -122.2 | 9.4 | -5.3 | 1.3 | 2.7 | 142.3 | 40.3 |

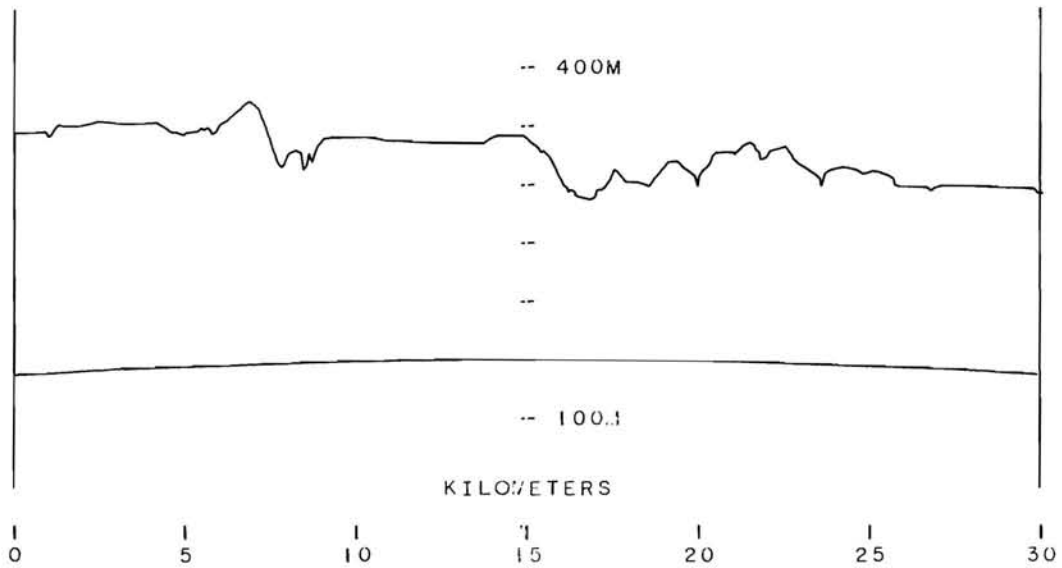
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS H= 30KM SITF 15

TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 15
TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-20-63

LIGHT 30FT WOODS AT 1/4MI.

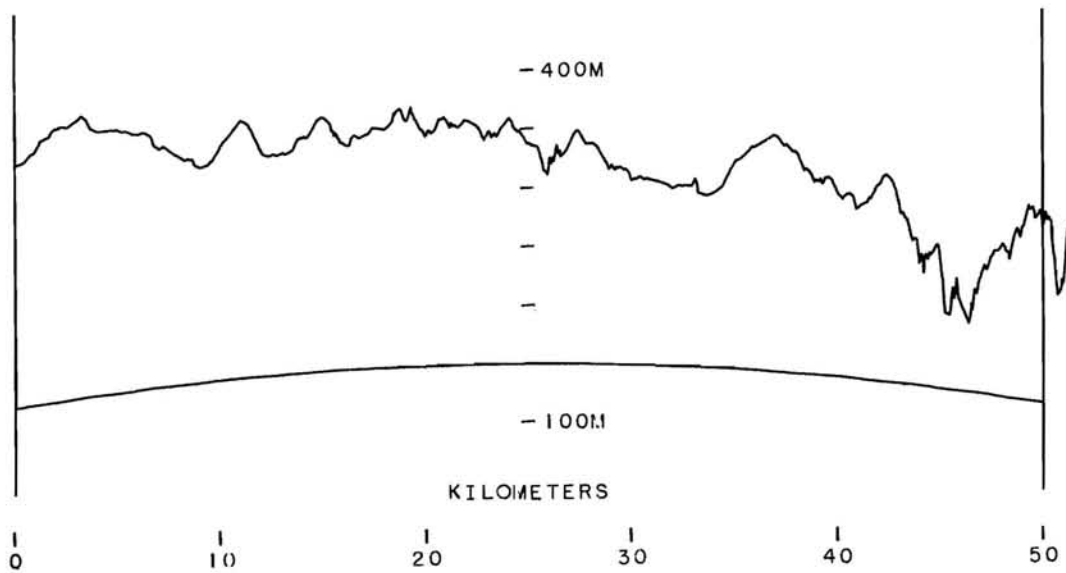
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.1 | -125.9 | | -10.7 | | 0.0 | 132.3 | 44.3 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 30, 50,V,V, P,1) | 15.1 | -132.9 | | -9.5 | | 0.8 | 137.7 | 41.7 |
| (HLLS, 30, 50,V,V, P,2) | 15.1 | -131.9 | | -5.2 | | 0.9 | 140.9 | 44.9 |
| (HLLS, 30, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| | | | | | | | | |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -138.6 | 7.6 | -6.9 | 1.4 | 2.7 | 155.2 | 53.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.4 | 7.6 | -1.6 | 1.4 | 2.7 | 153.3 | 51.3 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -128.7 | 7.6 | -4.4 | 1.4 | 2.7 | 147.8 | 45.8 |
| (HLLS, 30,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -2.0 | 1.3 | 2.7 | 160.4 | 58.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -5.9 | 1.3 | 2.7 | 153.5 | 51.5 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -128.2 | 9.4 | -4.7 | 1.3 | 2.7 | 148.9 | 46.9 |
| (HLLS, 30,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SITF 12
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 8= 50KM SITE 12

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-17-63

ROW OF 20FT TREES 30FT TOWARD TRANSMITTER, 8FT PINES BEYOND, 60FT TREES AT 1/4MI.

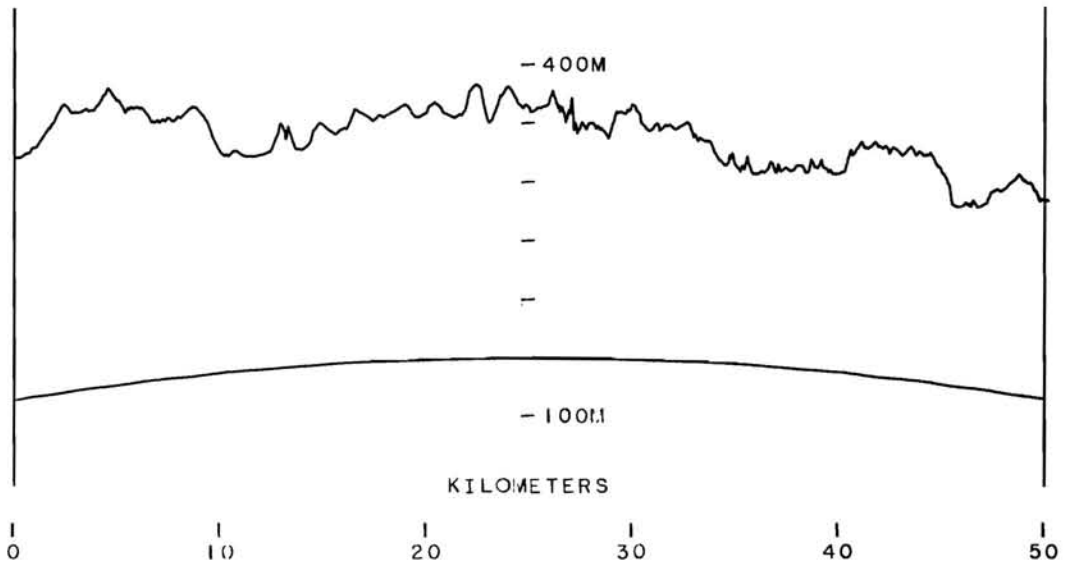
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 18.0 | -147.5 | | -5.1 | | 0.0 | 160.4 | 68.0 |
| (HLLS, 50, 20,V,V,AV,1) | 18.0 | -147.5 | | -5.1 | | 0.0 | 160.4 | 68.0 |
| (HLLS, 50, 20,V,V,AH,1) | 18.0 | -147.5 | | -5.1 | | 0.0 | 160.4 | 68.0 |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | -135.4 | | -2.5 | | 0.8 | 153.0 | 52.6 |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 20.9 | -135.4 | | -2.5 | | 0.8 | 153.0 | 52.6 |
| (HLLS, 50, 50,V,V,AV,2) | 20.9 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 20.9 | -135.4 | | -2.5 | | 0.8 | 153.0 | 52.6 |
| (HLLS, 50, 50,V,V,AH,2) | 20.9 | ** | | -8.6 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -143.0 | 7.6 | -1.3 | 1.4 | 2.7 | 165.2 | 58.8 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -143.0 | 7.6 | -2.0 | 1.4 | 2.7 | 164.5 | 58.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -1.8 | 1.4 | 2.7 | 160.6 | 54.2 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -143.0 | 7.6 | -1.3 | 1.4 | 2.7 | 165.2 | 58.8 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -143.0 | 7.6 | -2.0 | 1.4 | 2.7 | 164.5 | 58.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -138.9 | 7.6 | -1.8 | 1.4 | 2.7 | 160.6 | 54.2 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -143.0 | 7.6 | -1.3 | 1.4 | 2.7 | 165.2 | 58.8 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -143.0 | 7.6 | -2.0 | 1.4 | 2.7 | 164.5 | 58.1 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -138.9 | 7.6 | -1.8 | 1.4 | 2.7 | 160.6 | 54.2 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -3.9 | 1.3 | 2.7 | 160.4 | 54.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -2.8 | 1.3 | 2.7 | 159.6 | 53.2 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -132.9 | 9.4 | -3.4 | 1.3 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -3.9 | 1.3 | 2.7 | 160.4 | 54.0 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -137.0 | 9.4 | -2.8 | 1.3 | 2.7 | 159.6 | 53.2 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -132.9 | 9.4 | -3.4 | 1.3 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -138.9 | 9.4 | -3.9 | 1.3 | 2.7 | 160.4 | 54.0 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -137.0 | 9.4 | -2.8 | 1.3 | 2.7 | 159.6 | 53.2 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -132.9 | 9.4 | -3.4 | 1.3 | 2.7 | 154.9 | 48.5 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 13
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 50KM SITE 13

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-12-63

60FT TREES 30FT FROM BUS, SLIGHT RISE TOWARD TRANSMITTER WITH GOLF COURSE BEYOND. HOUSE 100FT ON RIGHT.

| (T,B,F,P(T),P(P),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -145.0 | | -9.2 | | 0.0 | 152.8 | 60.4 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.0 | -137.9 | | -11.8 | | 0.8 | 145.3 | 44.9 |
| (HLLS, 50, 50,V,V, P,2) | 20.0 | -143.0 | | -5.5 | | 0.9 | 156.6 | 56.2 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -8.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -143.0 | 7.6 | -1.3 | 1.4 | 2.7 | 165.2 | 58.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -143.0 | 7.6 | -2.6 | 1.4 | 2.7 | 163.9 | 57.5 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -143.0 | 9.4 | -6.5 | 1.3 | 2.7 | 161.9 | 55.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -4.8 | 1.3 | 2.7 | 159.5 | 53.1 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

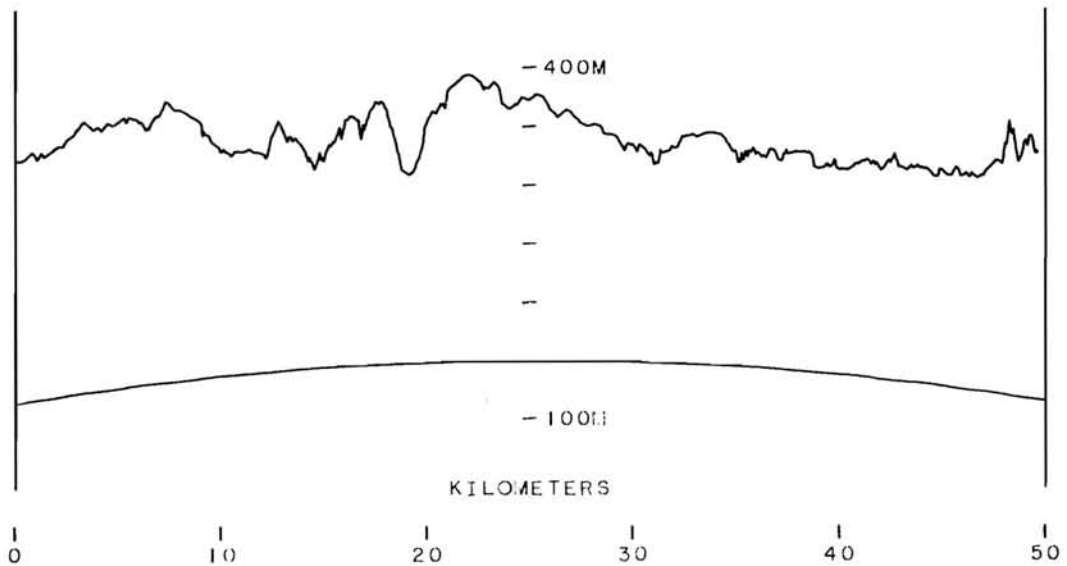
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS H= 50KM SITE 14
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 8= 50KM SITE 14

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-19-63

10FT HEDGE 20FT AHEAD, BARN 200FT AHEAD, ROLLING HILLS WITH SCATTERED
60FT TREES BEYOND. 30FT POWER LINE 20FT AHEAD.

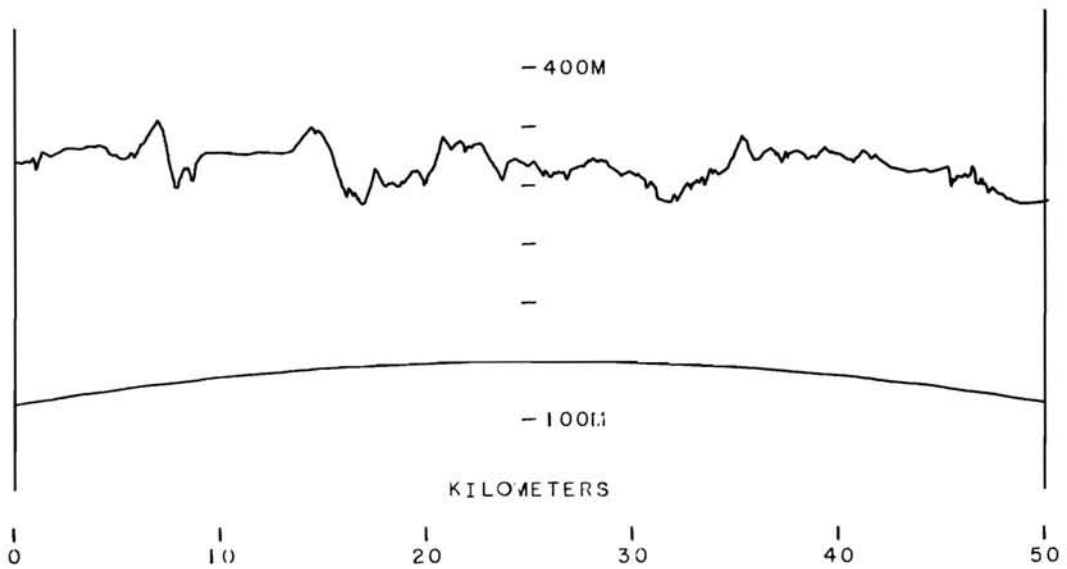
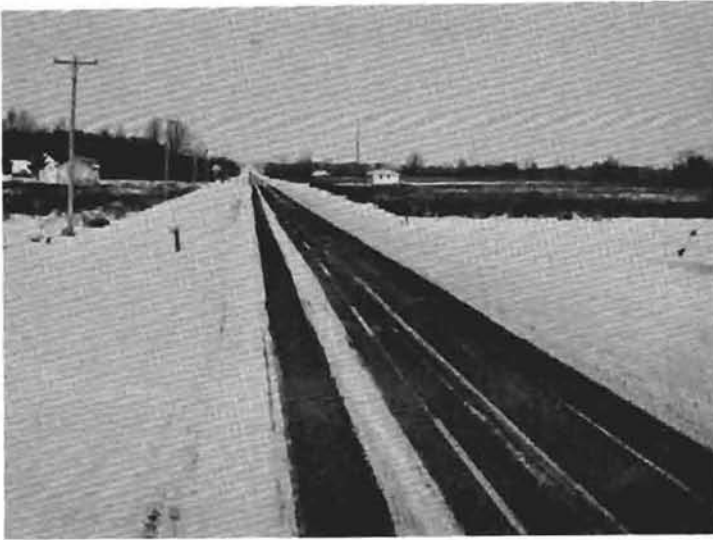
| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | * | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.2 | -137.0 | | -13.0 | 0.8 | | 138.4 | 38.0 |
| (HLLS, 50, 50,V,V, P,2) | 15.2 | -137.0 | | -5.5 | 0.9 | | 145.8 | 45.4 |
| (HLLS, 50, 50,V,V,AV,1) | 15.2 | -137.0 | | -13.0 | 0.8 | | 138.4 | 38.0 |
| (HLLS, 50, 50,V,V,AV,2) | 15.2 | -137.0 | | -5.5 | 0.9 | | 145.8 | 45.4 |
| (HLLS, 50, 50,V,V,AH,1) | 15.2 | -132.9 | | -13.0 | 0.8 | | 134.3 | 33.9 |
| (HLLS, 50, 50,V,V,AH,2) | 15.2 | -132.9 | | -5.5 | 0.9 | | 141.7 | 41.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -21.6 | 1.4 | 2.7 | 143.4 | 37.0 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -8.7 | 1.4 | 2.7 | 149.5 | 43.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -141.5 | 7.6 | -5.7 | 1.4 | 2.7 | 159.3 | 52.9 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -141.5 | 7.6 | -21.6 | 1.4 | 2.7 | 143.4 | 37.0 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -134.7 | 7.6 | -8.7 | 1.4 | 2.7 | 149.5 | 43.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -141.5 | 7.6 | -5.7 | 1.4 | 2.7 | 159.3 | 52.9 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -142.2 | 7.6 | -21.6 | 1.4 | 2.7 | 144.1 | 37.7 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -142.2 | 7.6 | -8.7 | 1.4 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -140.1 | 7.6 | -5.7 | 1.4 | 2.7 | 157.9 | 51.5 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -141.5 | 9.4 | -3.1 | 1.3 | 2.7 | 163.8 | 57.4 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -136.2 | 9.4 | -4.7 | 1.3 | 2.7 | 156.9 | 50.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.7 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -141.5 | 9.4 | -3.1 | 1.3 | 2.7 | 163.8 | 57.4 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -136.2 | 9.4 | -4.7 | 1.3 | 2.7 | 156.9 | 50.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -5.7 | 1.3 | 2.7 | 158.6 | 52.2 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -134.7 | 9.4 | -3.1 | 1.3 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -134.0 | 9.4 | -4.7 | 1.3 | 2.7 | 154.7 | 48.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -137.4 | 9.4 | -5.7 | 1.3 | 2.7 | 157.1 | 50.7 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 50KM SIF 15
TRANSMITTER 1

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.6H | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 15

TRANSMITTER 1

DATE AND COMMENTS OF OPERATOR

12-19-63

HARDTOP ROAD FOR 1MI, 50FT TREES 1/8MI TO FRONT LEFT, SCATTERED
HOUSES ALSO AT 1/8MI. LEVEL LAND.

| (T,H,F,P(T),P(R),L,H) | w(T) | w(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.1 | -132.9 | | -10.4 | | 0.0 | 143.6 | 51.2 |
| (HLLS, 50, 20,V,V,AV,1) | 21.1 | -132.9 | | -10.4 | | 0.0 | 143.6 | 51.2 |
| (HLLS, 50, 20,V,V,AH,1) | 21.1 | -132.9 | | -10.4 | | 0.0 | 143.6 | 51.2 |
| (HLLS, 50, 50,V,V, P,1) | 21.1 | ** | | -14.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 21.1 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 21.1 | ** | | -14.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 21.1 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 21.1 | ** | | -14.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 21.1 | ** | | -5.3 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -143.0 | 7.6 | -9.7 | 1.4 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -140.1 | 7.6 | -5.4 | 1.4 | 2.7 | 158.2 | 51.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -6.4 | 1.4 | 2.7 | 156.0 | 49.6 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -143.0 | 7.6 | -9.7 | 1.4 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -140.1 | 7.6 | -5.4 | 1.4 | 2.7 | 158.2 | 51.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -138.9 | 7.6 | -6.4 | 1.4 | 2.7 | 156.0 | 49.6 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -143.0 | 7.6 | -9.7 | 1.4 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -140.1 | 7.6 | -5.4 | 1.4 | 2.7 | 158.2 | 51.8 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -138.9 | 7.6 | -6.4 | 1.4 | 2.7 | 156.0 | 49.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -143.0 | 9.4 | -0.5 | 1.3 | 2.7 | 167.9 | 61.5 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -140.8 | 9.4 | -6.5 | 1.3 | 2.7 | 159.7 | 53.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -6.4 | 1.3 | 2.7 | 157.9 | 51.5 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -143.0 | 9.4 | -0.5 | 1.3 | 2.7 | 167.9 | 61.5 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -140.8 | 9.4 | -6.5 | 1.3 | 2.7 | 159.7 | 53.3 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -6.4 | 1.3 | 2.7 | 157.9 | 51.5 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -143.0 | 9.4 | -0.5 | 1.3 | 2.7 | 167.9 | 61.5 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -140.8 | 9.4 | -6.5 | 1.3 | 2.7 | 159.7 | 53.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -138.9 | 9.4 | -6.4 | 1.3 | 2.7 | 157.9 | 51.5 |

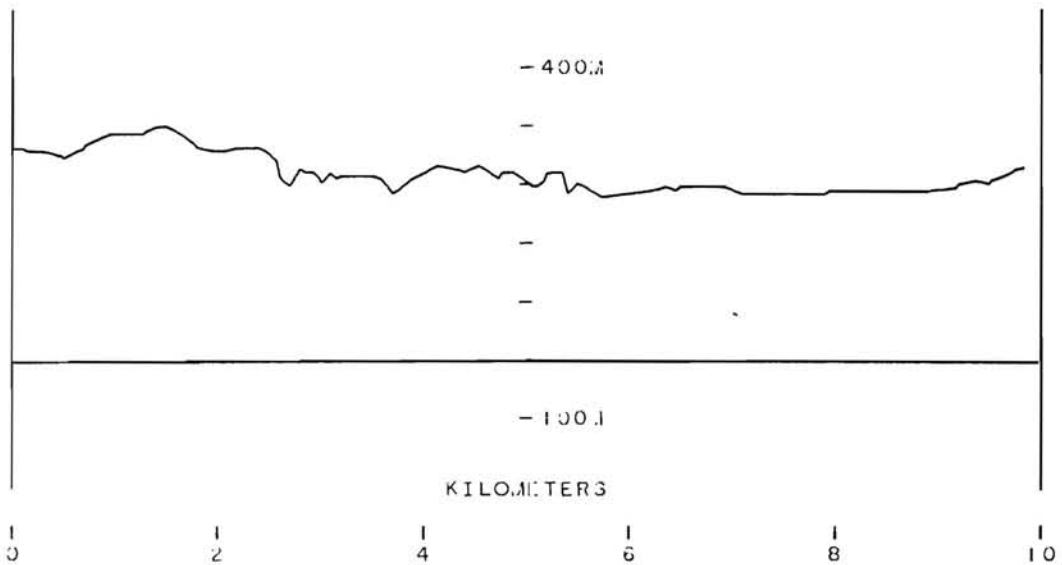
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 23

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B = 10KM SITE 23
 TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-09-64

BUILDINGS AND SMALL TREES APPROXIMATELY 200FT AHEAD WITH ROLLING
 HILLS BEYOND. DENSE 70FT WOODS BEGIN .2MI AHEAD. 50FT POWER LINES
 OVERHEAD TO REAR.

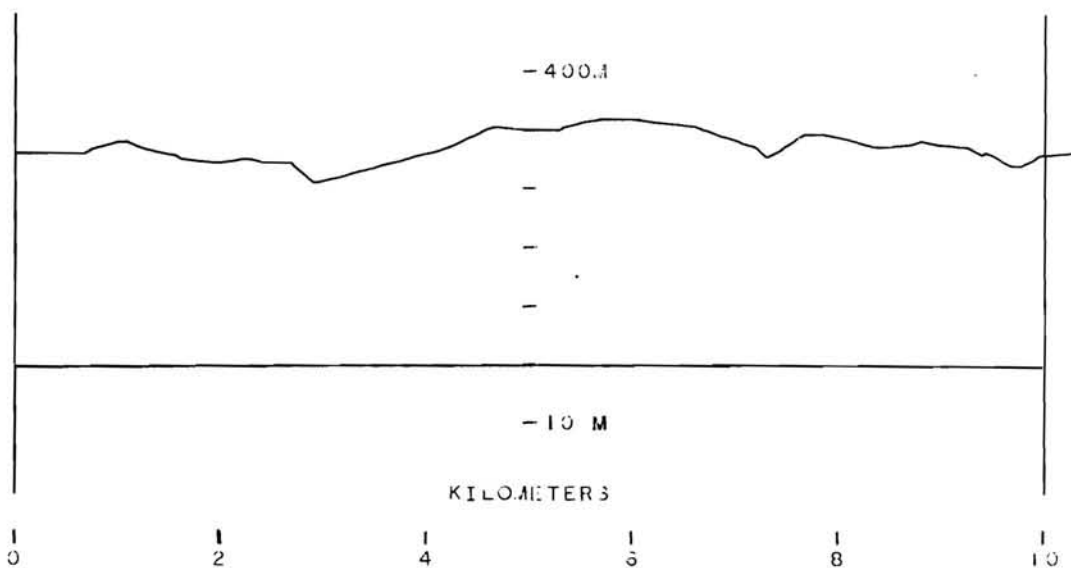
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 22.7 | -100.4 | | -7.0 | | 0.0 | 116.1 | 37.6 |
| (HLLS, 10, 20,V,V,AV,1) | 22.7 | -98.7 | | -7.0 | | 0.0 | 114.4 | 35.9 |
| (HLLS, 10, 20,V,V,AH,1) | 22.7 | -94.8 | | -7.0 | | 0.0 | 110.5 | 32.1 |
| | | | | | | | | |
| (HLLS, 10, 50,V,V, P,1) | 19.7 | -113.5 | | -10.5 | | 0.8 | 121.9 | 35.5 |
| (HLLS, 10, 50,V,V, P,2) | 19.7 | -112.6 | | -6.5 | | 0.9 | 124.9 | 38.5 |
| (HLLS, 10, 50,V,V,AV,1) | 19.7 | -117.0 | | -10.5 | | 0.8 | 125.4 | 39.0 |
| (HLLS, 10, 50,V,V,AV,2) | 19.7 | -109.0 | | -6.5 | | 0.9 | 121.3 | 34.9 |
| (HLLS, 10, 50,V,V,AH,1) | 19.7 | -117.0 | | -10.5 | | 0.8 | 125.4 | 39.0 |
| (HLLS, 10, 50,V,V,AH,2) | 19.7 | -109.0 | | -6.5 | | 0.9 | 121.3 | 34.9 |
| | | | | | | | | |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -105.9 | 7.6 | -11.2 | 1.4 | 2.7 | 118.2 | 25.7 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -104.1 | 7.6 | -2.6 | 1.4 | 2.7 | 125.0 | 32.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -99.0 | 7.6 | -2.6 | 1.4 | 2.7 | 119.9 | 27.4 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -103.9 | 7.6 | -11.2 | 1.4 | 2.7 | 116.2 | 23.7 |
| (HLLS, 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -111.0 | 7.6 | -11.2 | 1.4 | 2.7 | 123.3 | 30.8 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -105.9 | 7.6 | -2.6 | 1.4 | 2.7 | 126.8 | 34.3 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -102.5 | 7.6 | -2.6 | 1.4 | 2.7 | 123.4 | 30.9 |
| | | | | | | | | |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -101.2 | 9.4 | -2.0 | 1.3 | 2.7 | 124.6 | 32.1 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -96.7 | 9.4 | -6.1 | 1.3 | 2.7 | 116.0 | 23.5 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -94.0 | 9.4 | -5.8 | 1.3 | 2.7 | 113.6 | 21.2 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -100.1 | 9.4 | -2.0 | 1.3 | 2.7 | 123.5 | 31.1 |
| (HLLS, 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -100.1 | 9.4 | -2.0 | 1.3 | 2.7 | 123.5 | 31.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -97.0 | 9.4 | -6.1 | 1.3 | 2.7 | 116.3 | 23.8 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -96.6 | 9.4 | -5.8 | 1.3 | 2.7 | 116.2 | 23.8 |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 24
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 24

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-17-64

HEAVY 70FT WOODS AT 3/4MI, 30FT POWER LINE AT 10FT. ROLLING FIELDS.

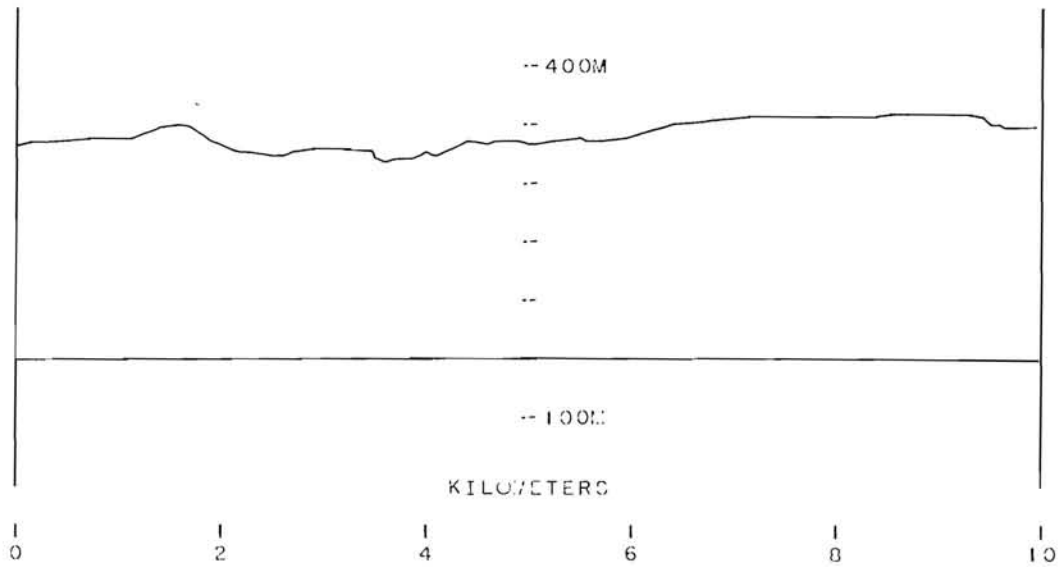
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 19.0 | -103.4 | | -6.2 | | 0.0 | 116.2 | 37.8 |
| (HLLS, 10, 20,V,V,AV,1) | 19.0 | -103.4 | | -6.2 | | 0.0 | 116.2 | 37.8 |
| (HLLS, 10, 20,V,V,AH,1) | 19.0 | -103.4 | | -6.2 | | 0.0 | 116.2 | 37.8 |
| (HLLS, 10, 50,V,V, P,1) | 20.9 | -122.0 | | -9.4 | | 0.8 | 132.7 | 46.3 |
| (HLLS, 10, 50,V,V, P,2) | 20.9 | -114.7 | | -5.2 | | 0.9 | 129.5 | 43.1 |
| (HLLS, 10, 50,V,V,AV,1) | 20.9 | -122.0 | | -9.4 | | 0.8 | 132.7 | 46.3 |
| (HLLS, 10, 50,V,V,AV,2) | 20.9 | -114.7 | | -5.2 | | 0.9 | 129.5 | 43.1 |
| (HLLS, 10, 50,V,V,AH,1) | 20.9 | -122.0 | | -9.4 | | 0.8 | 132.7 | 46.3 |
| (HLLS, 10, 50,V,V,AH,2) | 20.9 | -114.7 | | -5.2 | | 0.9 | 129.5 | 43.1 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -116.8 | 7.6 | -4.7 | 1.4 | 2.7 | 135.6 | 43.2 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -113.2 | 7.6 | -2.6 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -110.2 | 7.6 | -6.5 | 1.4 | 2.7 | 127.2 | 34.7 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -116.8 | 7.6 | -4.7 | 1.4 | 2.7 | 135.6 | 43.2 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -113.2 | 7.6 | -2.6 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -110.2 | 7.6 | -6.5 | 1.4 | 2.7 | 127.2 | 34.7 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -116.8 | 7.6 | -4.7 | 1.4 | 2.7 | 135.6 | 43.2 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -113.2 | 7.6 | -2.6 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -110.2 | 7.6 | -6.5 | 1.4 | 2.7 | 127.2 | 34.7 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -115.6 | 9.4 | 0.0 | 1.3 | 2.7 | 141.0 | 48.6 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -110.6 | 9.4 | -6.4 | 1.3 | 2.7 | 129.6 | 37.2 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -110.6 | 9.4 | -6.7 | 1.3 | 2.7 | 129.3 | 36.9 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -115.6 | 9.4 | 0.0 | 1.3 | 2.7 | 141.0 | 48.6 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -110.6 | 9.4 | -6.4 | 1.3 | 2.7 | 129.6 | 37.2 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -110.6 | 9.4 | -6.7 | 1.3 | 2.7 | 129.3 | 36.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -115.6 | 9.4 | 0.0 | 1.3 | 2.7 | 141.0 | 48.6 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -110.6 | 9.4 | -6.4 | 1.3 | 2.7 | 129.6 | 37.2 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -110.6 | 9.4 | -6.7 | 1.3 | 2.7 | 129.3 | 36.9 |

OHIO HILLS B= 10KM SITE 25

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 25

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-07-64

40FT TREES AT 500FT, HEAVY WOODS AT 1MI, OPEN TO RIGHT AND LEFT.

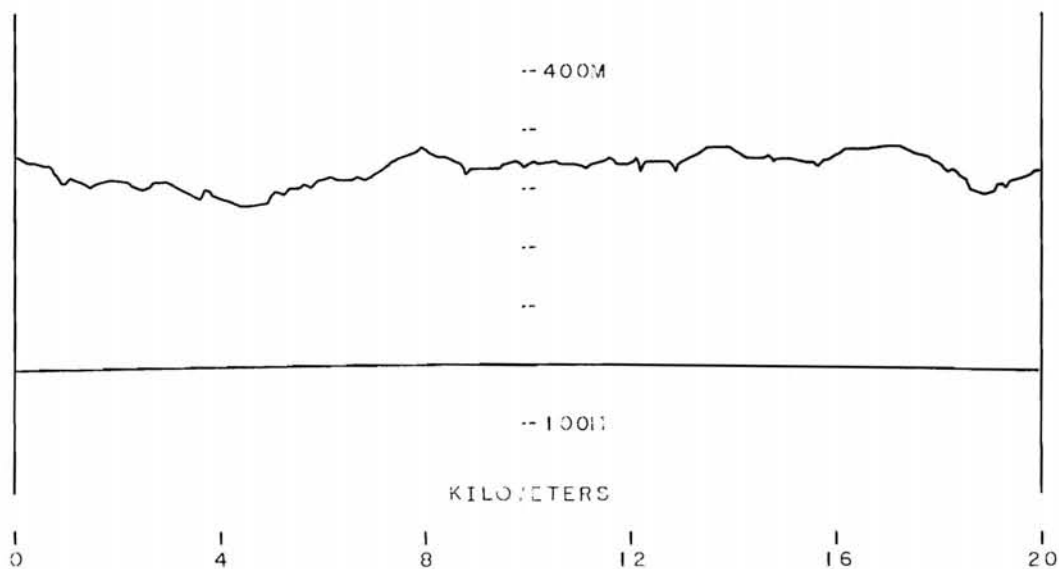
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 17.0 | -104.8 | | -5.3 | | 0.0 | 116.5 | 38.1 |
| (HLLS, 10, 20,V,V,AV,1) | 17.0 | -104.9 | | -5.3 | | 0.0 | 116.6 | 38.2 |
| (HLLS, 10, 20,V,V,AH,1) | 17.0 | -104.9 | | -5.3 | | 0.0 | 116.6 | 38.2 |
| (HLLS, 10, 50,V,V, P,1) | 20.5 | -118.5 | | -8.2 | | 0.8 | 130.0 | 43.6 |
| (HLLS, 10, 50,V,V, P,2) | 20.5 | -115.4 | | -5.2 | | 0.9 | 129.8 | 43.3 |
| (HLLS, 10, 50,V,V,AV,1) | 20.5 | -119.5 | | -8.2 | | 0.8 | 131.0 | 44.6 |
| (HLLS, 10, 50,V,V,AV,2) | 20.5 | -116.2 | | -5.2 | | 0.9 | 130.6 | 44.1 |
| (HLLS, 10, 50,V,V,AH,1) | 20.5 | -119.5 | | -8.2 | | 0.8 | 131.0 | 44.6 |
| (HLLS, 10, 50,V,V,AH,2) | 20.5 | -116.2 | | -5.2 | | 0.9 | 130.6 | 44.1 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -115.4 | 7.6 | -4.2 | 1.4 | 2.7 | 134.7 | 42.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -111.9 | 7.6 | -2.3 | 1.4 | 2.7 | 133.1 | 40.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -109.4 | 7.6 | -6.5 | 1.4 | 2.7 | 126.4 | 33.9 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -114.0 | 7.6 | -4.2 | 1.4 | 2.7 | 133.3 | 40.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -110.6 | 7.6 | -2.3 | 1.4 | 2.7 | 131.8 | 39.4 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -110.6 | 7.6 | -6.5 | 1.4 | 2.7 | 127.6 | 35.2 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -114.0 | 7.6 | -4.2 | 1.4 | 2.7 | 133.3 | 40.9 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -110.6 | 7.6 | -2.3 | 1.4 | 2.7 | 131.8 | 39.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -110.6 | 7.6 | -6.5 | 1.4 | 2.7 | 127.6 | 35.2 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -107.5 | 9.4 | 0.0 | 1.3 | 2.7 | 132.9 | 40.4 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -109.0 | 9.4 | -6.3 | 1.3 | 2.7 | 128.1 | 35.7 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -100.1 | 9.4 | -6.8 | 1.3 | 2.7 | 118.7 | 26.3 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -104.8 | 9.4 | 0.0 | 1.3 | 2.7 | 130.2 | 37.8 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -103.9 | 9.4 | -6.3 | 1.3 | 2.7 | 123.0 | 30.5 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -100.5 | 9.4 | -6.8 | 1.3 | 2.7 | 119.1 | 26.7 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -104.8 | 9.4 | 0.0 | 1.3 | 2.7 | 130.2 | 37.8 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -103.9 | 9.4 | -6.3 | 1.3 | 2.7 | 123.0 | 30.5 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -100.5 | 9.4 | -6.8 | 1.3 | 2.7 | 119.1 | 26.7 |

OHIO HILLS B= 20KM SITE 21

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 21
 TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-09-64

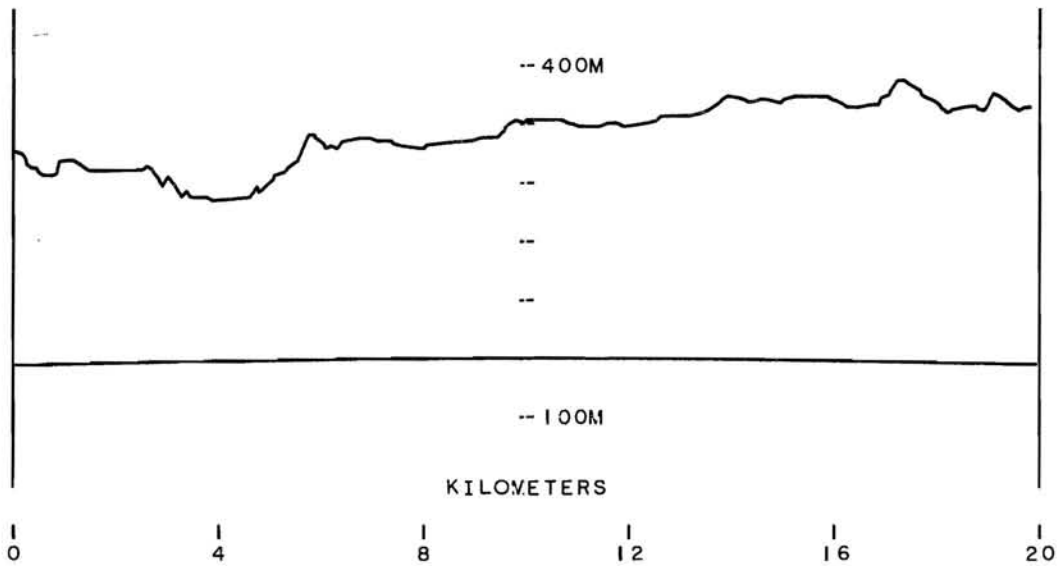
DENSE 50FT TREES, 300FT DEEP, TO LEFT, 100FT TREES TO RIGHT. POWER
 LINES TO LEFT OF ROAD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.7 | -121.4 | | -8.0 | | 0.0 | 136.1 | 51.6 |
| (HLLS, 20, 20,V,V,AV,1) | 22.7 | -124.9 | | -8.0 | | 0.0 | 139.6 | 55.1 |
| (HLLS, 20, 20,V,V,AH,1) | 22.7 | -111.9 | | -8.0 | | 0.0 | 126.6 | 42.1 |
| | | | | | | | | |
| (HLLS, 20, 50,V,V, P,1) | 20.7 | -126.1 | | -7.7 | | 0.8 | 138.3 | 45.8 |
| (HLLS, 20, 50,V,V, P,2) | 20.7 | -125.2 | | -5.5 | | 0.9 | 139.5 | 47.0 |
| (HLLS, 20, 50,V,V,AV,1) | 20.7 | -131.4 | | -7.7 | | 0.8 | 143.6 | 51.1 |
| (HLLS, 20, 50,V,V,AV,2) | 20.7 | -141.6 | | -5.5 | | 0.9 | 155.9 | 63.4 |
| (HLLS, 20, 50,V,V,AH,1) | 20.7 | -135.4 | | -7.7 | | 0.8 | 147.6 | 55.1 |
| (HLLS, 20, 50,V,V,AH,2) | 20.7 | -120.1 | | -5.5 | | 0.9 | 134.4 | 41.9 |
| | | | | | | | | |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -119.5 | 7.6 | -13.2 | 1.4 | 2.7 | 129.8 | 31.3 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -117.1 | 7.6 | -5.7 | 1.4 | 2.7 | 134.9 | 36.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -120.1 | 7.6 | -6.9 | 1.4 | 2.7 | 136.7 | 38.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -115.4 | 7.6 | -13.2 | 1.4 | 2.7 | 125.7 | 27.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -114.0 | 7.6 | -5.7 | 1.4 | 2.7 | 131.8 | 33.3 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -115.4 | 7.6 | -6.9 | 1.4 | 2.7 | 132.0 | 33.5 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -13.2 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -117.9 | 7.6 | -5.7 | 1.4 | 2.7 | 135.7 | 37.2 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -112.1 | 7.6 | -6.9 | 1.4 | 2.7 | 128.7 | 30.2 |
| | | | | | | | | |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | -5.7 | 1.3 | 2.7 | 154.4 | 55.9 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -117.9 | 9.4 | -4.0 | 1.3 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -115.2 | 9.4 | -5.2 | 1.3 | 2.7 | 135.4 | 36.9 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -118.9 | 9.4 | -5.7 | 1.3 | 2.7 | 138.6 | 40.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -115.4 | 9.4 | -4.0 | 1.3 | 2.7 | 136.8 | 38.3 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -113.5 | 9.4 | -5.2 | 1.3 | 2.7 | 133.7 | 35.2 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -115.4 | 9.4 | -5.7 | 1.3 | 2.7 | 135.1 | 36.6 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -112.1 | 9.4 | -4.0 | 1.3 | 2.7 | 133.5 | 35.0 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -111.9 | 9.4 | -5.2 | 1.3 | 2.7 | 132.1 | 33.6 |

OHIO HILLS B= 20KM SITE 22
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 22

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-09-64

50FT POWER LINES, ROLLING HILLS AHEAD. 100FT TREES 1/2MI AHEAD, 500 FT DEEP. HOUSE TO RIGHT.

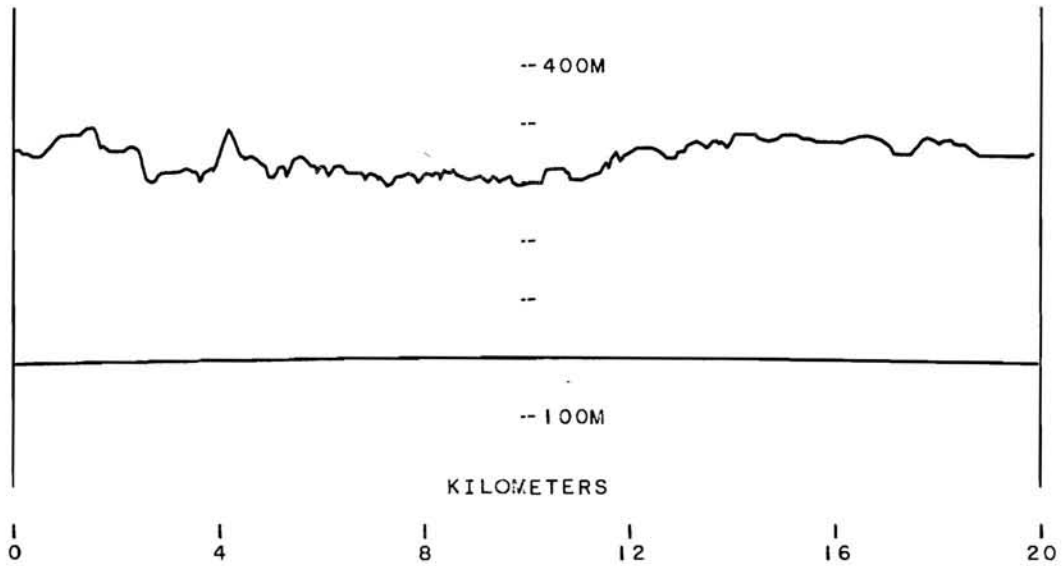
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 26.9 | -108.4 | | -6.0 | | 0.0 | 129.3 | 44.8 |
| (HLLS, 20, 20,V,V,AV,1) | 26.9 | -108.4 | | -6.0 | | 0.0 | 129.3 | 44.8 |
| (HLLS, 20, 20,V,V,AH,1) | 26.9 | -116.8 | | -6.0 | | 0.0 | 137.7 | 53.2 |
| (HLLS, 20, 50,V,V, P,1) | 16.4 | -131.4 | | -9.0 | | 0.8 | 138.0 | 45.5 |
| (HLLS, 20, 50,V,V, P,2) | 16.4 | -123.2 | | -5.2 | | 0.9 | 133.5 | 41.0 |
| (HLLS, 20, 50,V,V,AV,1) | 16.4 | -131.4 | | -9.0 | | 0.8 | 138.0 | 45.5 |
| (HLLS, 20, 50,V,V,AV,2) | 16.4 | -123.2 | | -5.2 | | 0.9 | 133.5 | 41.0 |
| (HLLS, 20, 50,V,V,AH,1) | 16.4 | -123.2 | | -9.0 | | 0.8 | 129.8 | 37.3 |
| (HLLS, 20, 50,V,V,AH,2) | 16.4 | -121.6 | | -5.2 | | 0.9 | 131.9 | 39.4 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -125.2 | 7.6 | -4.5 | 1.4 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -124.1 | 7.6 | -2.5 | 1.4 | 2.7 | 145.1 | 46.6 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -123.0 | 7.6 | -6.5 | 1.4 | 2.7 | 140.0 | 41.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -125.2 | 7.6 | -4.5 | 1.4 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -124.1 | 7.6 | -2.5 | 1.4 | 2.7 | 145.1 | 46.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -123.0 | 7.6 | -6.5 | 1.4 | 2.7 | 140.0 | 41.5 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -130.2 | 7.6 | -4.5 | 1.4 | 2.7 | 149.2 | 50.7 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -123.7 | 7.6 | -2.5 | 1.4 | 2.7 | 144.7 | 46.2 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -122.8 | 7.6 | -6.5 | 1.4 | 2.7 | 139.8 | 41.3 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | 0.0 | 1.3 | 2.7 | 160.1 | 61.6 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -123.6 | 9.4 | -6.4 | 1.3 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -122.8 | 9.4 | -6.7 | 1.3 | 2.7 | 141.5 | 43.0 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -134.7 | 9.4 | 0.0 | 1.3 | 2.7 | 160.1 | 61.6 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -123.6 | 9.4 | -6.4 | 1.3 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -122.8 | 9.4 | -6.7 | 1.3 | 2.7 | 141.5 | 43.0 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -124.3 | 9.4 | 0.0 | 1.3 | 2.7 | 149.7 | 51.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -124.9 | 9.4 | -6.4 | 1.3 | 2.7 | 143.9 | 45.4 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -119.9 | 9.4 | -6.7 | 1.3 | 2.7 | 138.6 | 40.1 |

OHIO HILLS B= 20KM SITE 23

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 23

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-10-64

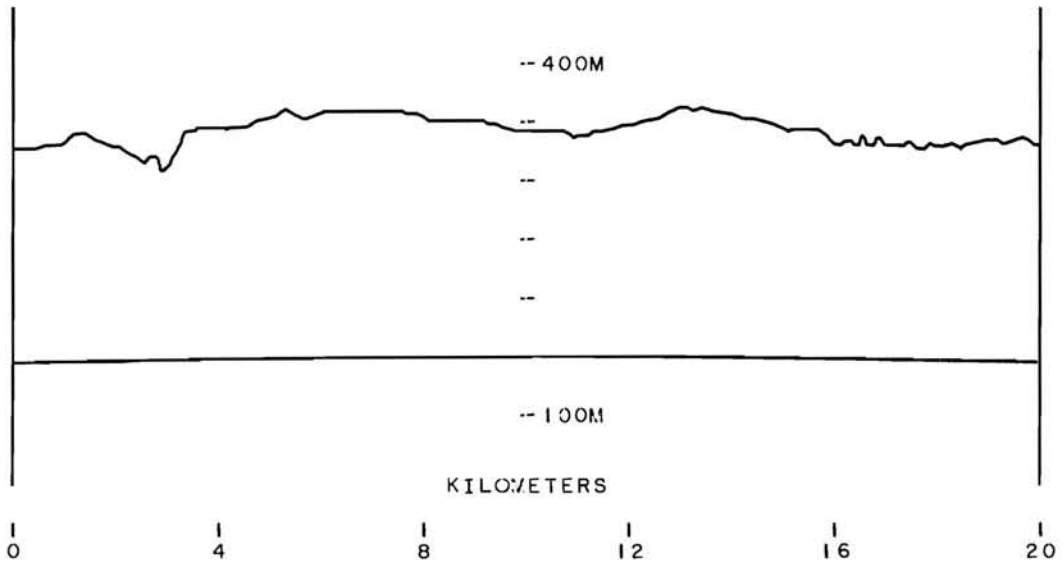
60FT POWER LINES ON LEFT. RAILROAD BRIDGE .15MI AHEAD, 30FT PHONE
LINES ON RIGHT, SCATTERED BUILDINGS ON BOTH SIDES.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.7 | -108.4 | | -12.6 | | 0.0 | 118.5 | 34.0 |
| (HLLS, 20, 20,V,V,AV,1) | 22.7 | -108.4 | | -12.6 | | 0.0 | 118.5 | 34.0 |
| (HLLS, 20, 20,V,V,AH,1) | 22.7 | -112.4 | | -12.6 | | 0.0 | 122.5 | 38.0 |
| (HLLS, 20, 50,V,V, P,1) | 19.7 | -129.4 | | -7.5 | | 0.8 | 140.8 | 48.3 |
| (HLLS, 20, 50,V,V, P,2) | 19.7 | -124.9 | | -5.4 | | 0.9 | 138.3 | 45.8 |
| (HLLS, 20, 50,V,V,AV,1) | 19.7 | -129.4 | | -7.5 | | 0.8 | 140.8 | 48.3 |
| (HLLS, 20, 50,V,V,AV,2) | 19.7 | -124.9 | | -5.4 | | 0.9 | 138.3 | 45.8 |
| (HLLS, 20, 50,V,V,AH,1) | 19.7 | -129.8 | | -7.5 | | 0.8 | 141.2 | 48.7 |
| (HLLS, 20, 50,V,V,AH,2) | 19.7 | -124.9 | | -5.4 | | 0.9 | 138.3 | 45.8 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -125.4 | 7.6 | -8.6 | 1.4 | 2.7 | 140.3 | 41.8 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -124.5 | 7.6 | -3.1 | 1.4 | 2.7 | 144.9 | 46.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -117.0 | 7.6 | -6.3 | 1.4 | 2.7 | 134.2 | 35.7 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -125.4 | 7.6 | -8.6 | 1.4 | 2.7 | 140.3 | 41.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -124.5 | 7.6 | -3.1 | 1.4 | 2.7 | 144.9 | 46.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -117.0 | 7.6 | -6.3 | 1.4 | 2.7 | 134.2 | 35.7 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -127.5 | 7.6 | -8.6 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -122.2 | 7.6 | -3.1 | 1.4 | 2.7 | 142.6 | 44.1 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -119.4 | 7.6 | -6.3 | 1.4 | 2.7 | 136.6 | 38.1 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -127.5 | 9.4 | -4.4 | 1.3 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -125.4 | 9.4 | -5.3 | 1.3 | 2.7 | 145.5 | 47.0 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -118.4 | 9.4 | -5.2 | 1.3 | 2.7 | 138.6 | 40.1 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -127.5 | 9.4 | -4.4 | 1.3 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -125.4 | 9.4 | -5.3 | 1.3 | 2.7 | 145.5 | 47.0 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -118.4 | 9.4 | -5.2 | 1.3 | 2.7 | 138.6 | 40.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -119.5 | 9.4 | -4.4 | 1.3 | 2.7 | 140.5 | 42.0 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.7 | 9.4 | -5.3 | 1.3 | 2.7 | 134.8 | 36.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -115.4 | 9.4 | -5.2 | 1.3 | 2.7 | 135.6 | 37.1 |

OHIO HILLS B= 20KM SITE 24
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 24

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-16-63

SOFT TREES TO LEFT, HOUSE AND OPEN FIELD ON RIGHT. ROLLING HILLS.

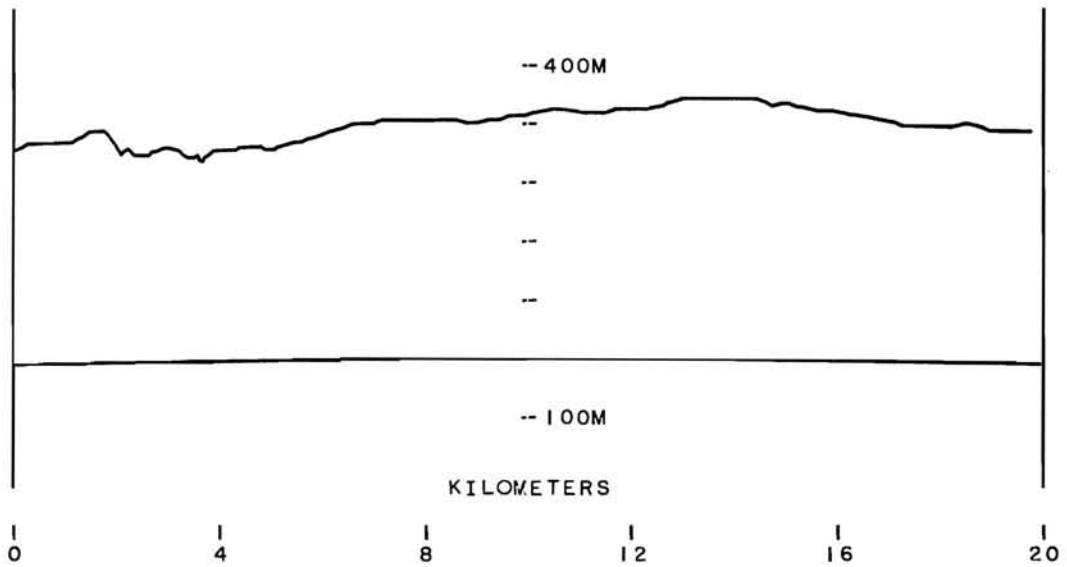
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.0 | -120.1 | | -5.8 | | 0.0 | 133.3 | 48.8 |
| (HLLS, 20, 20,V,V,AV,1) | 19.0 | -120.1 | | -5.8 | | 0.0 | 133.3 | 48.8 |
| (HLLS, 20, 20,V,V,AH,1) | 19.0 | -119.9 | | -5.8 | | 0.0 | 133.1 | 48.6 |
| (HLLS, 20, 50,V,V, P,1) | 19.7 | ** | | -8.1 | 0.8 | ** | ** | ** |
| (HLLS, 20, 50,V,V, P,2) | 19.7 | ** | | -7.5 | 0.9 | ** | ** | ** |
| (HLLS, 20, 50,V,V,AV,1) | 19.7 | ** | | -8.1 | 0.8 | ** | ** | ** |
| (HLLS, 20, 50,V,V,AV,2) | 19.7 | ** | | -7.5 | 0.9 | ** | ** | ** |
| (HLLS, 20, 50,V,V,AH,1) | 19.7 | ** | | -8.1 | 0.8 | ** | ** | ** |
| (HLLS, 20, 50,V,V,AH,2) | 19.7 | ** | | -7.5 | 0.9 | ** | ** | ** |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -134.7 | 7.6 | -6.3 | 1.4 | 2.7 | 151.9 | 53.4 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -129.0 | 7.6 | -2.6 | 1.4 | 2.7 | 149.9 | 51.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -2.3 | 1.4 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -132.9 | 7.6 | -6.3 | 1.4 | 2.7 | 150.1 | 51.6 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -2.6 | 1.4 | 2.7 | 149.9 | 51.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -126.4 | 7.6 | -2.3 | 1.4 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -6.3 | 1.4 | 2.7 | 150.7 | 52.2 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -129.8 | 7.6 | -2.6 | 1.4 | 2.7 | 150.7 | 52.2 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -127.5 | 7.6 | -2.3 | 1.4 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -130.2 | 9.4 | -2.7 | 1.3 | 2.7 | 152.9 | 54.4 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -129.0 | 9.4 | -4.7 | 1.3 | 2.7 | 149.7 | 51.2 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -128.4 | 9.4 | -5.0 | 1.3 | 2.7 | 148.8 | 50.3 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -129.0 | 9.4 | -2.7 | 1.3 | 2.7 | 151.7 | 53.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -126.9 | 9.4 | -4.7 | 1.3 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -127.6 | 9.4 | -5.0 | 1.3 | 2.7 | 148.0 | 49.5 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -128.4 | 9.4 | -2.7 | 1.3 | 2.7 | 151.1 | 52.6 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -126.6 | 9.4 | -4.7 | 1.3 | 2.7 | 147.3 | 48.8 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -125.4 | 9.4 | -5.0 | 1.3 | 2.7 | 145.8 | 47.3 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 20KM SITE 25
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 25

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-07-64

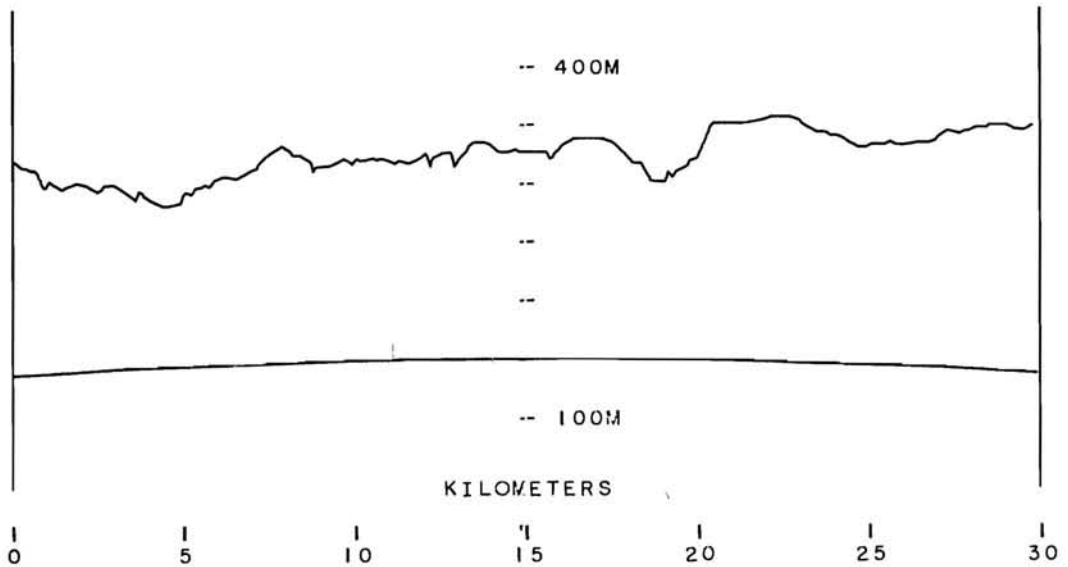
DENSE WOODS 300FT AWAY. OPEN FIELDS ON RIGHT AND LEFT, POWER LINE 20 FT ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 17.0 | -123.5 | | -9.6 | | 0.0 | 130.9 | 46.4 |
| (HLLS, 20, 20,V,V,AV,1) | 17.0 | -123.7 | | -9.6 | | 0.0 | 131.1 | 46.6 |
| (HLLS, 20, 20,V,V,AH,1) | 17.0 | -123.9 | | -9.6 | | 0.0 | 131.3 | 46.8 |
| (HLLS, 20, 50,V,V, P,1) | 20.5 | -132.4 | | -11.2 | | 0.8 | 140.9 | 48.4 |
| (HLLS, 20, 50,V,V, P,2) | 20.5 | -131.9 | | -5.2 | | 0.9 | 146.3 | 53.8 |
| (HLLS, 20, 50,V,V,AV,1) | 20.5 | -131.4 | | -11.2 | | 0.8 | 139.9 | 47.4 |
| (HLLS, 20, 50,V,V,AV,2) | 20.5 | -131.4 | | -5.2 | | 0.9 | 145.8 | 53.3 |
| (HLLS, 20, 50,V,V,AH,1) | 20.5 | -130.2 | | -11.2 | | 0.8 | 138.7 | 46.2 |
| (HLLS, 20, 50,V,V,AH,2) | 20.5 | -128.1 | | -5.2 | | 0.9 | 142.5 | 50.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -131.9 | 7.6 | -5.9 | 1.4 | 2.7 | 149.5 | 51.0 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -127.6 | 7.6 | -1.2 | 1.4 | 2.7 | 149.9 | 51.4 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -127.6 | 7.6 | -3.3 | 1.4 | 2.7 | 147.8 | 49.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -128.4 | 7.6 | -5.9 | 1.4 | 2.7 | 146.0 | 47.5 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -125.2 | 7.6 | -1.2 | 1.4 | 2.7 | 147.5 | 49.0 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -125.4 | 7.6 | -3.3 | 1.4 | 2.7 | 145.6 | 47.1 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -134.0 | 7.6 | -5.9 | 1.4 | 2.7 | 151.6 | 53.1 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -126.9 | 7.6 | -1.2 | 1.4 | 2.7 | 149.2 | 50.7 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -126.1 | 7.6 | -3.3 | 1.4 | 2.7 | 146.3 | 47.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -125.2 | 9.4 | -0.6 | 1.3 | 2.7 | 150.0 | 51.5 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -121.4 | 9.4 | -6.4 | 1.3 | 2.7 | 140.4 | 41.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -122.2 | 9.4 | -4.3 | 1.3 | 2.7 | 143.3 | 44.8 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.7 | 9.4 | -0.6 | 1.3 | 2.7 | 148.5 | 50.0 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -122.7 | 9.4 | -6.4 | 1.3 | 2.7 | 141.7 | 43.2 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -121.4 | 9.4 | -4.3 | 1.3 | 2.7 | 142.5 | 44.0 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.2 | 9.4 | -0.6 | 1.3 | 2.7 | 148.0 | 49.5 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -122.2 | 9.4 | -6.4 | 1.3 | 2.7 | 141.2 | 42.7 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -123.0 | 9.4 | -4.3 | 1.3 | 2.7 | 144.1 | 45.6 |

OHIO HILLS B= 30KM SITE 21
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 21

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-08-64

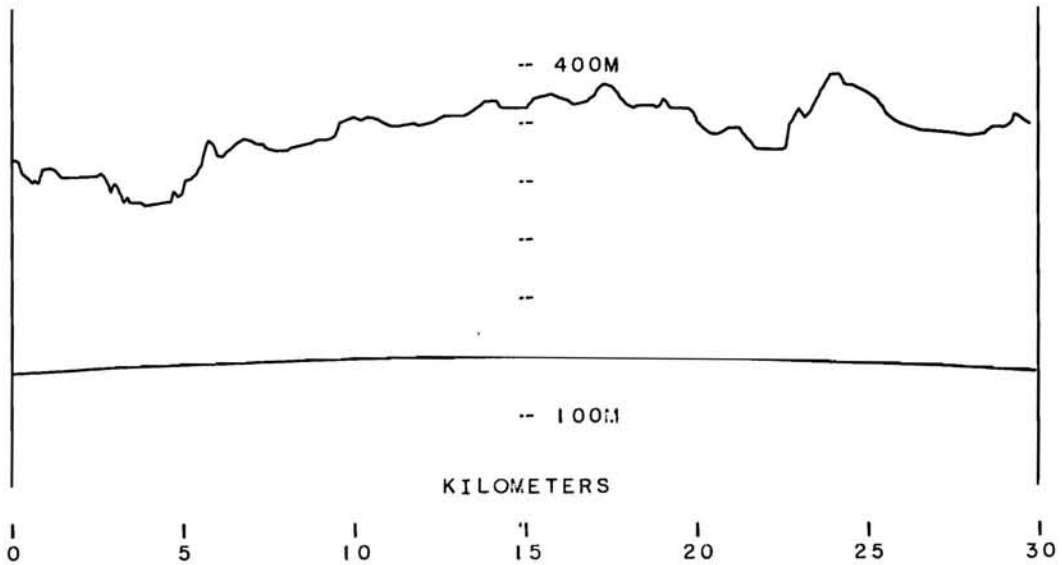
DENSE 20FT TREES 100FT FRONT AND LEFT. ROAD AND OPEN FIELD ON FRONT AND RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.7 | -117.4 | | -5.2 | | 0.0 | 134.9 | 46.9 |
| (HLLS, 30, 20,V,V,AV,1) | 22.7 | -135.0 | | -5.2 | | 0.0 | 152.5 | 64.5 |
| (HLLS, 30, 20,V,V,AH,1) | 22.7 | -135.0 | | -5.2 | | 0.0 | 152.5 | 64.5 |
| (HLLS, 30, 50,V,V, P,1) | 20.7 | -126.4 | | -4.8 | | 0.8 | 141.5 | 45.5 |
| (HLLS, 30, 50,V,V, P,2) | 20.7 | -130.6 | | -8.4 | | 0.9 | 142.0 | 46.0 |
| (HLLS, 30, 50,V,V,AV,1) | 20.7 | -123.2 | | -4.8 | | 0.8 | 138.3 | 42.3 |
| (HLLS, 30, 50,V,V,AV,2) | 20.7 | -126.4 | | -8.4 | | 0.9 | 137.8 | 41.8 |
| (HLLS, 30, 50,V,V,AH,1) | 20.7 | -123.2 | | -4.8 | | 0.8 | 138.3 | 42.3 |
| (HLLS, 30, 50,V,V,AH,2) | 20.7 | -126.4 | | -8.4 | | 0.9 | 137.8 | 41.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -126.4 | 7.6 | -8.4 | 1.4 | 2.7 | 141.5 | 39.5 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -118.9 | 7.6 | -4.0 | 1.4 | 2.7 | 138.4 | 36.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -116.2 | 7.6 | -4.3 | 1.4 | 2.7 | 135.4 | 33.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -125.2 | 7.6 | -8.4 | 1.4 | 2.7 | 140.3 | 38.3 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -118.6 | 7.6 | -4.0 | 1.4 | 2.7 | 138.1 | 36.1 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -116.6 | 7.6 | -4.3 | 1.4 | 2.7 | 135.8 | 33.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -125.2 | 7.6 | -8.4 | 1.4 | 2.7 | 140.3 | 38.3 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -118.6 | 7.6 | -4.0 | 1.4 | 2.7 | 138.1 | 36.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -116.6 | 7.6 | -4.3 | 1.4 | 2.7 | 135.8 | 33.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -126.4 | 9.4 | -7.7 | 1.3 | 2.7 | 144.1 | 42.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -117.9 | 9.4 | -4.2 | 1.3 | 2.7 | 139.1 | 37.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -116.2 | 9.4 | -4.6 | 1.3 | 2.7 | 137.0 | 35.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.6 | 9.4 | -7.7 | 1.3 | 2.7 | 141.3 | 39.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -117.8 | 9.4 | -4.2 | 1.3 | 2.7 | 139.0 | 37.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -116.2 | 9.4 | -4.6 | 1.3 | 2.7 | 137.0 | 35.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -123.6 | 9.4 | -7.7 | 1.3 | 2.7 | 141.3 | 39.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -117.8 | 9.4 | -4.2 | 1.3 | 2.7 | 139.0 | 37.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -116.2 | 9.4 | -4.6 | 1.3 | 2.7 | 137.0 | 35.0 |

OHIO HILLS B= 30KM SITE 22
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 22

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-08-64

CLEAR ROLLING FIELDS TO FRONT LEFT. BUILDING 1/4MI AHEAD.

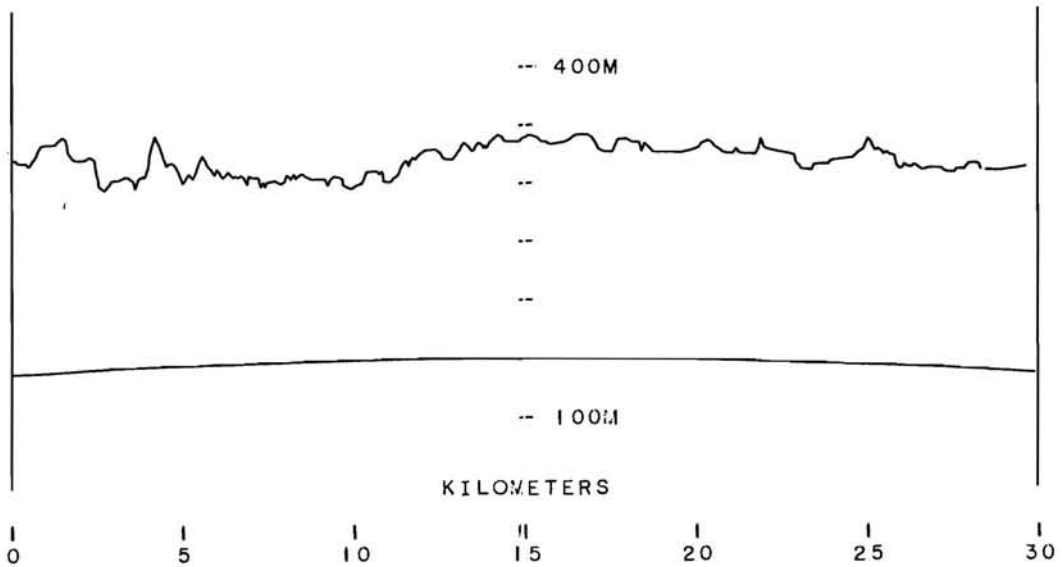
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 26.9 | -124.9 | | -5.0 | | 0.0 | 146.8 | 58.8 |
| (HLLS, 30, 20,V,V,AV,1) | 26.9 | -115.6 | | -5.0 | | 0.0 | 137.5 | 49.5 |
| (HLLS, 30, 20,V,V,AH,1) | 26.9 | -115.6 | | -5.0 | | 0.0 | 137.5 | 49.5 |
| (HLLS, 30, 50,V,V, P,1) | 16.4 | -131.0 | | -1.7 | | 0.8 | 144.9 | 48.9 |
| (HLLS, 30, 50,V,V, P,2) | 16.4 | -131.0 | | -9.0 | | 0.9 | 137.5 | 41.5 |
| (HLLS, 30, 50,V,V,AV,1) | 16.4 | -130.6 | | -1.7 | | 0.8 | 144.5 | 48.5 |
| (HLLS, 30, 50,V,V,AV,2) | 16.4 | -132.9 | | -9.0 | | 0.9 | 139.4 | 43.4 |
| (HLLS, 30, 50,V,V,AH,1) | 16.4 | -130.6 | | -1.7 | | 0.8 | 144.5 | 48.5 |
| (HLLS, 30, 50,V,V,AH,2) | 16.4 | -132.9 | | -9.0 | | 0.9 | 139.4 | 43.4 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -1.2 | 1.4 | 2.7 | 163.8 | 61.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -133.5 | 7.6 | -2.3 | 1.4 | 2.7 | 154.7 | 52.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -2.1 | 1.4 | 2.7 | 152.4 | 50.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -137.9 | 7.6 | -1.2 | 1.4 | 2.7 | 160.2 | 58.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -130.6 | 7.6 | -2.3 | 1.4 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.0 | 7.6 | -2.1 | 1.4 | 2.7 | 150.4 | 48.4 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -137.9 | 7.6 | -1.2 | 1.4 | 2.7 | 160.2 | 58.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -130.6 | 7.6 | -2.3 | 1.4 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.0 | 7.6 | -2.1 | 1.4 | 2.7 | 150.4 | 48.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.9 | 9.4 | -5.1 | 1.3 | 2.7 | 158.2 | 56.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -129.8 | 9.4 | -2.6 | 1.3 | 2.7 | 152.6 | 50.6 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -129.0 | 9.4 | -3.2 | 1.3 | 2.7 | 151.2 | 49.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -129.4 | 9.4 | -5.1 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -2.6 | 1.3 | 2.7 | 151.5 | 49.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -127.6 | 9.4 | -3.2 | 1.3 | 2.7 | 149.8 | 47.8 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -129.4 | 9.4 | -5.1 | 1.3 | 2.7 | 149.7 | 47.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.7 | 9.4 | -2.6 | 1.3 | 2.7 | 151.5 | 49.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -127.6 | 9.4 | -3.2 | 1.3 | 2.7 | 149.8 | 47.8 |

OHIO HILLS B= 30KM SITE 23

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 23

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-15-64

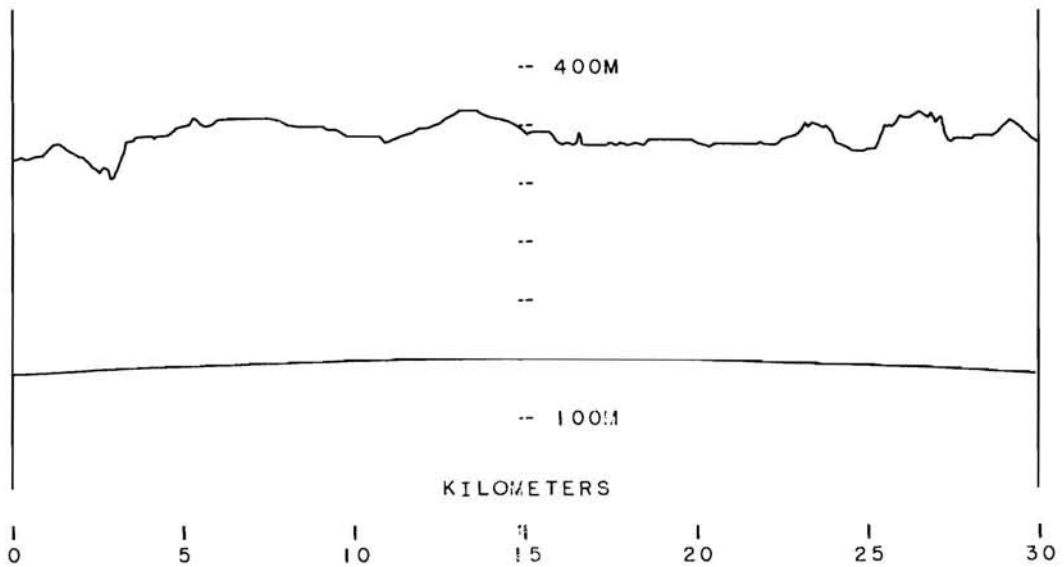
NEARLY LEVEL OPEN FIELD. 60FT WOODS .25MI AHEAD, 30FT TREES TO REAR.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.7 | -121.4 | | -5.0 | | 0.0 | 139.1 | 51.1 |
| (HLLS, 30, 20,V,V,AV,1) | 22.7 | -121.4 | | -5.0 | | 0.0 | 139.1 | 51.1 |
| (HLLS, 30, 20,V,V,AH,1) | 22.7 | -122.0 | | -5.0 | | 0.0 | 139.7 | 51.7 |
| (HLLS, 30, 50,V,V, P,1) | 19.7 | -130.6 | | -7.2 | | 0.8 | 142.3 | 46.3 |
| (HLLS, 30, 50,V,V, P,2) | 19.7 | -131.9 | | -6.2 | | 0.9 | 144.5 | 48.5 |
| (HLLS, 30, 50,V,V,AV,1) | 19.7 | -129.4 | | -7.2 | | 0.8 | 141.1 | 45.1 |
| (HLLS, 30, 50,V,V,AV,2) | 19.7 | -131.4 | | -6.2 | | 0.9 | 144.0 | 48.0 |
| (HLLS, 30, 50,V,V,AH,1) | 19.7 | -130.2 | | -7.2 | | 0.8 | 141.9 | 45.9 |
| (HLLS, 30, 50,V,V,AH,2) | 19.7 | -132.4 | | -6.2 | | 0.9 | 145.0 | 49.0 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -136.2 | 7.6 | -7.0 | 1.4 | 2.7 | 152.7 | 50.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -3.7 | 1.4 | 2.7 | 151.7 | 49.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -129.4 | 7.6 | -5.7 | 1.4 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -129.4 | 7.6 | -7.0 | 1.4 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -127.2 | 7.6 | -3.7 | 1.4 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -128.1 | 7.6 | -5.7 | 1.4 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -136.2 | 7.6 | -7.0 | 1.4 | 2.7 | 152.7 | 50.7 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -3.7 | 1.4 | 2.7 | 152.7 | 50.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.0 | 7.6 | -5.7 | 1.4 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -134.0 | 9.4 | -8.0 | 1.3 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.7 | 9.4 | -6.2 | 1.3 | 2.7 | 147.9 | 45.9 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.9 | 9.4 | -6.6 | 1.3 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -8.0 | 1.3 | 2.7 | 156.3 | 54.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -126.1 | 9.4 | -6.6 | 1.3 | 2.7 | 144.9 | 42.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.4 | 9.4 | -8.0 | 1.3 | 2.7 | 148.8 | 46.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.1 | 9.4 | -6.2 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.0 | 9.4 | -6.6 | 1.3 | 2.7 | 141.8 | 39.8 |

OHIO HILLS B= 30KM SITE 24
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 30KM SITE 24

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-06-64

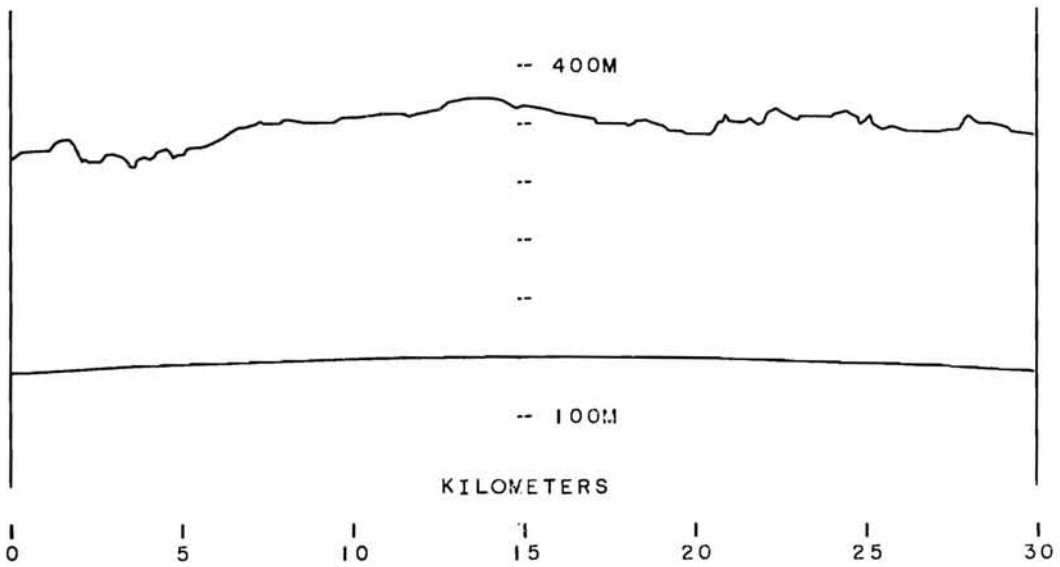
TRFES AND HOUSE APPROXIMATELY 100FT IN FRONT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.0 | -126.1 | | -7.5 | | 0.0 | 137.6 | 49.6 |
| (HLLS, 30, 20,V,V,AV,1) | 19.0 | -126.1 | | -7.5 | | 0.0 | 137.6 | 49.6 |
| (HLLS, 30, 20,V,V,AH,1) | 19.0 | -124.5 | | -7.5 | | 0.0 | 136.0 | 48.0 |
| (HLLS, 30, 50,V,V, P,1) | 20.9 | -135.1 | | -11.3 | | 0.8 | 143.9 | 47.9 |
| (HLLS, 30, 50,V,V, P,2) | 20.9 | -136.6 | | -5.2 | | 0.9 | 151.4 | 55.4 |
| (HLLS, 30, 50,V,V,AV,1) | 20.9 | -135.1 | | -11.3 | | 0.8 | 143.9 | 47.9 |
| (HLLS, 30, 50,V,V,AV,2) | 20.9 | -136.6 | | -5.2 | | 0.9 | 151.4 | 55.4 |
| (HLLS, 30, 50,V,V,AH,1) | 20.9 | -137.9 | | -11.3 | | 0.8 | 146.7 | 50.7 |
| (HLLS, 30, 50,V,V,AH,2) | 20.9 | -137.9 | | -5.2 | | 0.9 | 152.7 | 56.7 |
| (HLLS, 30, 100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -6.3 | 1.4 | 2.7 | 158.7 | 56.7 |
| (HLLS, 30, 100,V,V, P,6) | 20.0 | -137.9 | 7.6 | -3.3 | 1.4 | 2.7 | 158.1 | 56.1 |
| (HLLS, 30, 100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -6.5 | 1.4 | 2.7 | 154.9 | 52.9 |
| (HLLS, 30, 100,V,V,AV,3) | 20.0 | -141.5 | 7.6 | -6.3 | 1.4 | 2.7 | 158.7 | 56.7 |
| (HLLS, 30, 100,V,V,AV,6) | 20.0 | -137.9 | 7.6 | -3.3 | 1.4 | 2.7 | 158.1 | 56.1 |
| (HLLS, 30, 100,V,V,AV,9) | 20.0 | -137.9 | 7.6 | -6.5 | 1.4 | 2.7 | 154.9 | 52.9 |
| (HLLS, 30, 100,V,V,AH,3) | 20.0 | -141.5 | 7.6 | -6.3 | 1.4 | 2.7 | 158.7 | 56.7 |
| (HLLS, 30, 100,V,V,AH,6) | 20.0 | -141.5 | 7.6 | -3.3 | 1.4 | 2.7 | 161.7 | 59.7 |
| (HLLS, 30, 100,V,V,AH,9) | 20.0 | -141.5 | 7.6 | -6.5 | 1.4 | 2.7 | 158.5 | 56.5 |
| (HLLS, 30, 100,H,H, P,3) | 20.0 | -141.5 | 9.4 | -0.1 | 1.3 | 2.7 | 166.8 | 64.8 |
| (HLLS, 30, 100,H,H, P,6) | 20.0 | -137.9 | 9.4 | -6.5 | 1.3 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30, 100,H,H, P,9) | 20.0 | -135.1 | 9.4 | -6.6 | 1.3 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30, 100,H,H,AV,3) | 20.0 | -141.5 | 9.4 | -0.1 | 1.3 | 2.7 | 166.8 | 64.8 |
| (HLLS, 30, 100,H,H,AV,6) | 20.0 | -137.9 | 9.4 | -6.5 | 1.3 | 2.7 | 156.8 | 54.8 |
| (HLLS, 30, 100,H,H,AV,9) | 20.0 | -135.1 | 9.4 | -6.6 | 1.3 | 2.7 | 153.9 | 51.9 |
| (HLLS, 30, 100,H,H,AH,3) | 20.0 | -136.2 | 9.4 | -0.1 | 1.3 | 2.7 | 161.5 | 59.5 |
| (HLLS, 30, 100,H,H,AH,6) | 20.0 | -134.7 | 9.4 | -6.5 | 1.3 | 2.7 | 153.6 | 51.6 |
| (HLLS, 30, 100,H,H,AH,9) | 20.0 | -132.9 | 9.4 | -6.6 | 1.3 | 2.7 | 151.7 | 49.7 |

OHIO HILLS B= 30KM SITE 25
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 25

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-07-64

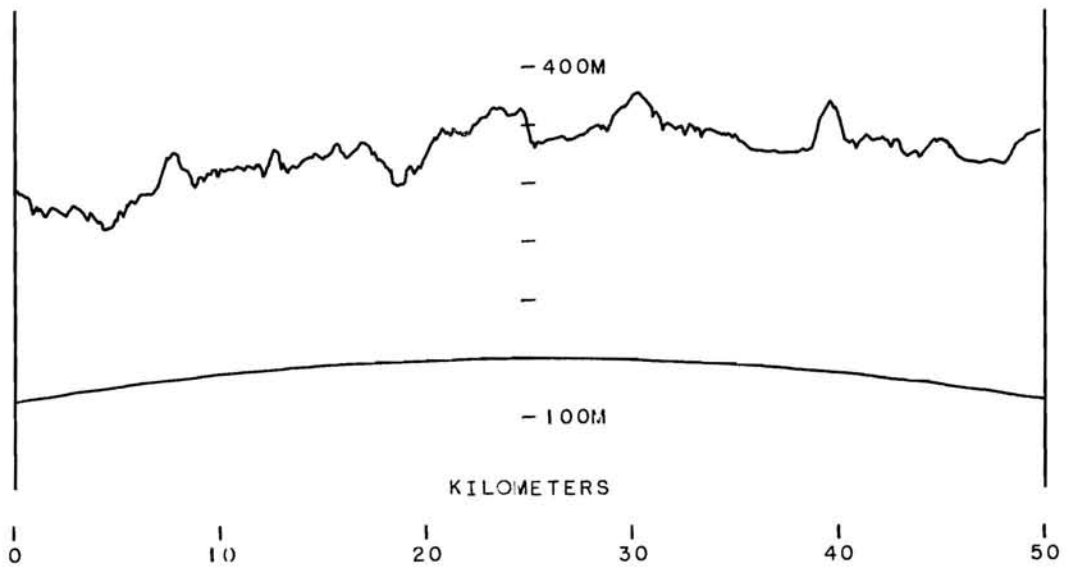
70FT TREES 100FT RIGHT. ROAD AND ROLLING HILLS ALSO TO LEFT. BARN
AND HOUSE 100FT RIGHT. HOUSE 3/4MI AWAY.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 17.0 | -129.0 | | -12.9 | | 0.0 | 133.1 | 45.1 |
| (HLLS, 30, 20,V,V,AV,1) | 17.0 | -129.0 | | -12.9 | | 0.0 | 133.1 | 45.1 |
| (HLLS, 30, 20,V,V,AH,1) | 17.0 | -129.4 | | -12.9 | | 0.0 | 133.5 | 45.5 |
| (HLLS, 30, 50,V,V, P,1) | 20.5 | -135.4 | | -7.4 | | 0.8 | 147.7 | 51.7 |
| (HLLS, 30, 50,V,V, P,2) | 20.5 | -135.4 | | -5.4 | | 0.9 | 149.6 | 53.6 |
| (HLLS, 30, 50,V,V,AV,1) | 20.5 | -135.4 | | -7.4 | | 0.8 | 147.7 | 51.7 |
| (HLLS, 30, 50,V,V,AV,2) | 20.5 | -135.4 | | -5.4 | | 0.9 | 149.6 | 53.6 |
| (HLLS, 30, 50,V,V,AH,1) | 20.5 | -132.9 | | -7.4 | | 0.8 | 145.2 | 49.2 |
| (HLLS, 30, 50,V,V,AH,2) | 20.5 | -131.0 | | -5.4 | | 0.9 | 145.2 | 49.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -143.9 | 7.6 | -9.3 | 1.4 | 2.7 | 158.1 | 56.1 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -140.1 | 7.6 | -3.7 | 1.4 | 2.7 | 159.9 | 57.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -137.0 | 7.6 | -6.7 | 1.4 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -143.9 | 7.6 | -9.3 | 1.4 | 2.7 | 158.1 | 56.1 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -140.1 | 7.6 | -3.7 | 1.4 | 2.7 | 159.9 | 57.9 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -137.0 | 7.6 | -6.7 | 1.4 | 2.7 | 153.8 | 51.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -140.1 | 7.6 | -9.3 | 1.4 | 2.7 | 154.3 | 52.3 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -138.9 | 7.6 | -3.7 | 1.4 | 2.7 | 158.7 | 56.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -135.4 | 7.6 | -6.7 | 1.4 | 2.7 | 152.2 | 50.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -140.8 | 9.4 | -5.0 | 1.3 | 2.7 | 161.2 | 59.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -5.0 | 1.3 | 2.7 | 154.4 | 52.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -127.5 | 9.4 | -5.3 | 1.3 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -140.8 | 9.4 | -5.0 | 1.3 | 2.7 | 161.2 | 59.2 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -5.0 | 1.3 | 2.7 | 154.4 | 52.4 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -127.5 | 9.4 | -5.3 | 1.3 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -5.0 | 1.3 | 2.7 | 153.3 | 51.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -137.0 | 9.4 | -5.0 | 1.3 | 2.7 | 157.4 | 55.4 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -134.0 | 9.4 | -5.3 | 1.3 | 2.7 | 154.1 | 52.1 |

OHIO HILLS B= 50KM SITE 21
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 21

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-08-64

OPEN FIELDS TO FRONT AND LEFT, SCATTERED BUILDINGS AND ROW OF 30FT TREES AHEAD. PHONE LINES FRONT AND LEFT, POWER LINES FRONT AND RIGHT, ASPHALT ROAD FRONT AND RIGHT.

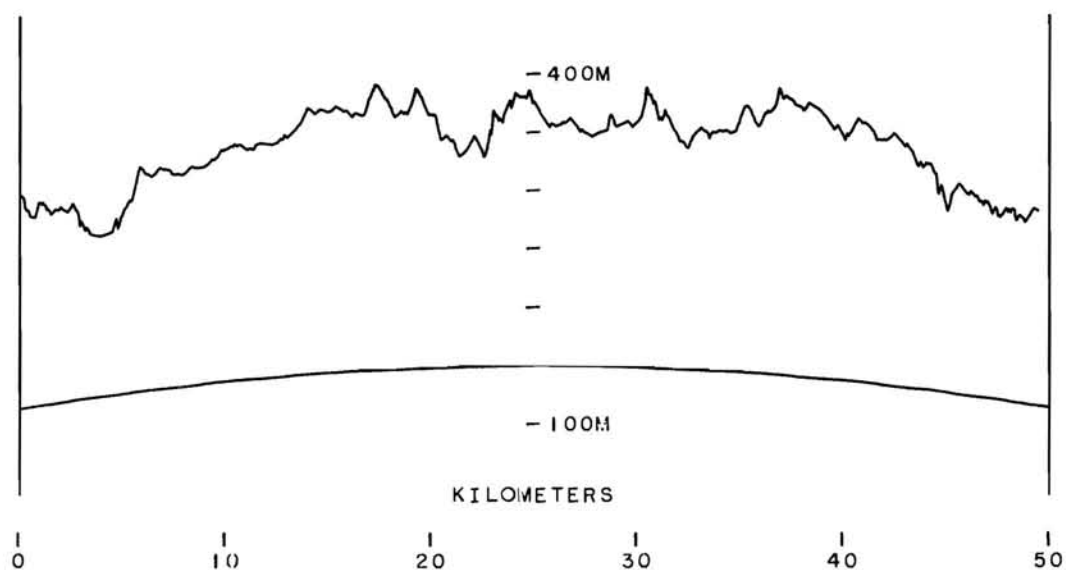
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.7 | -133.0 | | -5.0 | | 0.0 | 150.7 | 58.3 |
| (HLLS, 50, 20,V,V,AV,1) | 22.7 | -127.5 | | -5.0 | | 0.0 | 145.2 | 52.8 |
| (HLLS, 50, 20,V,V,AH,1) | 22.7 | -127.5 | | -5.0 | | 0.0 | 145.2 | 52.8 |
| (HLLS, 50, 50,V,V, P,1) | 20.7 | -134.0 | | -2.5 | | 0.8 | 151.4 | 51.0 |
| (HLLS, 50, 50,V,V, P,2) | 20.7 | -134.0 | | -9.0 | | 0.9 | 144.8 | 44.4 |
| (HLLS, 50, 50,V,V,AV,1) | 20.7 | -133.5 | | -2.5 | | 0.8 | 150.9 | 50.5 |
| (HLLS, 50, 50,V,V,AV,2) | 20.7 | -131.0 | | -9.0 | | 0.9 | 141.8 | 41.4 |
| (HLLS, 50, 50,V,V,AH,1) | 20.7 | -133.5 | | -2.5 | | 0.8 | 150.9 | 50.5 |
| (HLLS, 50, 50,V,V,AH,2) | 20.7 | -131.0 | | -9.0 | | 0.9 | 141.8 | 41.4 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -145.0 | 7.6 | -3.1 | 1.4 | 2.7 | 165.4 | 59.0 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -132.9 | 7.6 | -2.6 | 1.4 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -129.0 | 7.6 | -2.5 | 1.4 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -140.1 | 7.6 | -3.1 | 1.4 | 2.7 | 160.5 | 54.1 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -132.9 | 7.6 | -2.6 | 1.4 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -129.8 | 7.6 | -2.5 | 1.4 | 2.7 | 150.8 | 44.4 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -140.1 | 7.6 | -3.1 | 1.4 | 2.7 | 160.5 | 54.1 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -2.6 | 1.4 | 2.7 | 153.8 | 47.4 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -129.8 | 7.6 | -2.5 | 1.4 | 2.7 | 150.8 | 44.4 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -145.0 | 9.4 | -5.7 | 1.3 | 2.7 | 164.7 | 58.3 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -129.4 | 9.4 | -2.9 | 1.3 | 2.7 | 151.9 | 45.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -126.1 | 9.4 | -3.4 | 1.3 | 2.7 | 148.1 | 41.7 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -5.7 | 1.3 | 2.7 | 155.1 | 48.7 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -131.0 | 9.4 | -2.9 | 1.3 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -127.6 | 9.4 | -3.4 | 1.3 | 2.7 | 149.6 | 43.2 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -135.4 | 9.4 | -5.7 | 1.3 | 2.7 | 155.1 | 48.7 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -131.0 | 9.4 | -2.9 | 1.3 | 2.7 | 153.5 | 47.1 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -127.6 | 9.4 | -3.4 | 1.3 | 2.7 | 149.6 | 43.2 |

OHIO HILLS B= 50KM SITE 22

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 22

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-15-64

ROLLING HILLS. MODERATE 30FT WOODS AHEAD, RIGHT, AND LEFT, POWER LINE FRONT AND LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 26.9 | -129.0 | | -12.5 | | 0.0 | 143.4 | 51.0 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 16.4 | -138.9 | | -9.6 | | 0.8 | 144.9 | 44.5 |
| (HLLS, 50, 50,V,V, P,2) | 16.4 | -137.0 | | -5.5 | | 0.9 | 147.0 | 46.6 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -22.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -6.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.3 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

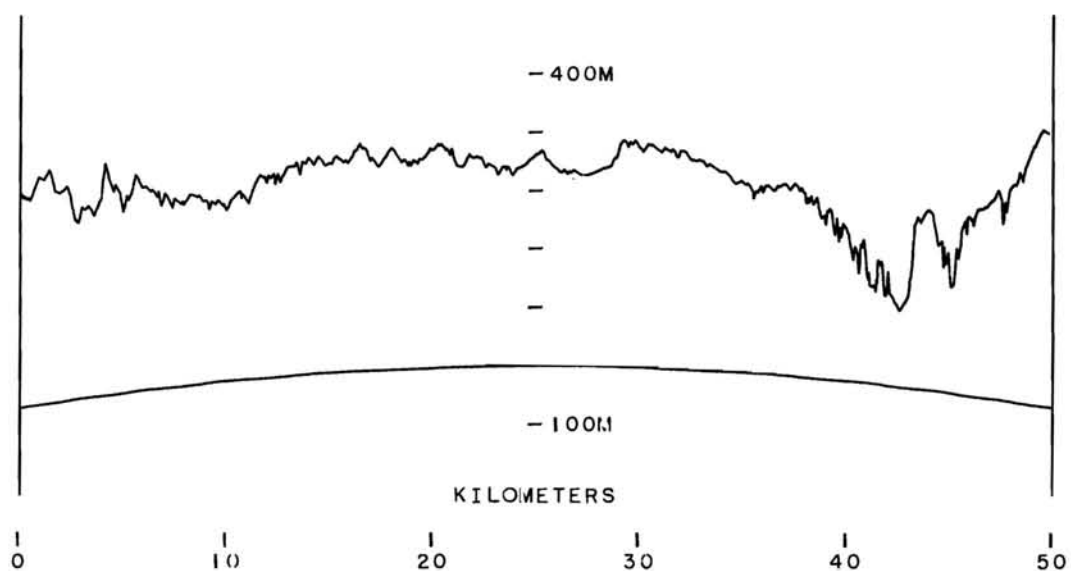
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 23
TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 23

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-16-64

ORCHARD AND ROLLING HILLS, 20FT TREES 30FT AWAY, POWER AND PHONE
LINES 15FT AHEAD AND LEFT, HEAVY 25FT TREES 30FT RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.7 | -131.0 | | -5.2 | | 0.0 | 148.5 | 56.1 |
| (HLLS, 50, 20,V,V,AV,1) | 22.7 | -131.0 | | -5.2 | | 0.0 | 148.5 | 56.1 |
| (HLLS, 50, 20,V,V,AH,1) | 22.7 | -129.4 | | -5.2 | | 0.0 | 146.9 | 54.5 |
| (HLLS, 50, 50,V,V, P,1) | 16.4 | ** | | -7.2 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 16.4 | ** | | -5.2 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 16.4 | ** | | -7.2 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 16.4 | ** | | -5.2 | 0.9 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 16.4 | ** | | -7.2 | 0.8 | ** | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 16.4 | ** | | -5.2 | 0.9 | ** | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -140.1 | 7.6 | -23.5 | 1.4 | 2.7 | 140.1 | 33.7 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -135.4 | 7.6 | -8.4 | 1.4 | 2.7 | 150.5 | 44.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -132.9 | 7.6 | -5.7 | 1.4 | 2.7 | 150.7 | 44.3 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -131.0 | 7.6 | -23.5 | 1.4 | 2.7 | 131.0 | 24.6 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -129.8 | 7.6 | -8.4 | 1.4 | 2.7 | 144.9 | 38.5 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -130.6 | 7.6 | -5.7 | 1.4 | 2.7 | 148.4 | 42.0 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -134.0 | 7.6 | -23.5 | 1.4 | 2.7 | 134.0 | 27.6 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -138.9 | 7.6 | -8.4 | 1.4 | 2.7 | 154.0 | 47.6 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -138.9 | 7.6 | -5.7 | 1.4 | 2.7 | 156.7 | 50.3 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -4.4 | 1.3 | 2.7 | 158.0 | 51.6 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -4.5 | 1.3 | 2.7 | 152.8 | 46.4 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -128.7 | 9.4 | -5.4 | 1.3 | 2.7 | 148.7 | 42.3 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 48.6 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -4.5 | 1.3 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -131.0 | 9.4 | -5.4 | 1.3 | 2.7 | 151.0 | 44.6 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -130.6 | 9.4 | -4.4 | 1.3 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -134.0 | 9.4 | -4.5 | 1.3 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -128.1 | 9.4 | -5.4 | 1.3 | 2.7 | 148.1 | 41.7 |

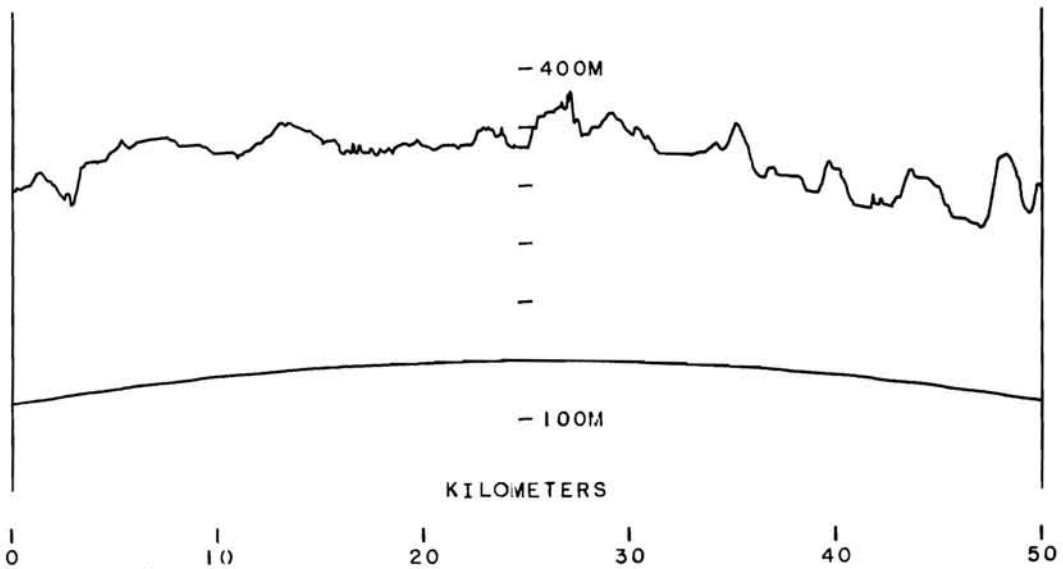
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 24

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 24

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-16-64

20FT PHONE LINE AHEAD AND LEFT, HOUSE 100FT TO RIGHT. ROLLING FIELD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.0 | -129.0 | | -12.9 | | 0.0 | 135.1 | 42.7 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.9 | ** | | -8.8 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.9 | -129.0 | | -5.5 | | 0.9 | 143.5 | 43.1 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -16.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -6.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -143.0 | 7.6 | -6.5 | 1.4 | 2.7 | 160.0 | 53.6 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -141.5 | 9.4 | -4.4 | 1.3 | 2.7 | 162.5 | 56.1 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -139.5 | 9.4 | -5.2 | 1.3 | 2.7 | 159.7 | 53.3 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

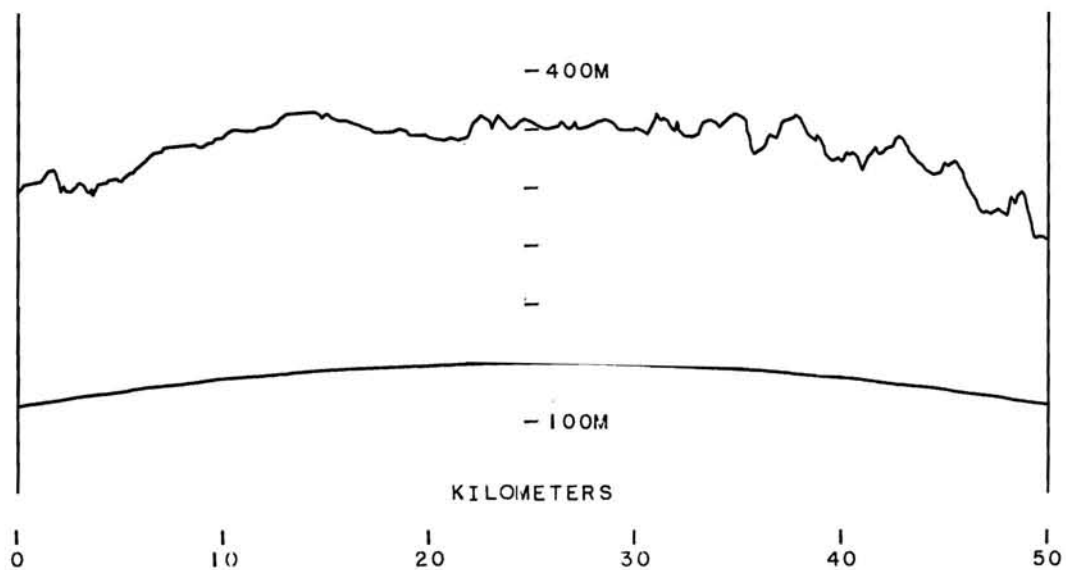
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 25

TRANSMITTER 2

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 25

TRANSMITTER 2

DATE AND COMMENTS OF OPERATOR

01-07-64

HOUSE 1/4MI AWAY. SCATTERED 20FT TREES 100FT LEFT, 30FT CLIFF RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 17.0 | -137.4 | | -12.7 | | 0.0 | 141.7 | 49.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.5 | -137.0 | | -2.7 | | 0.8 | 154.0 | 53.6 |
| (HLLS, 50, 50,V,V, P,2) | 20.5 | -137.0 | | -5.5 | | 0.9 | 151.1 | 50.7 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.2 | -21.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.2 | -8.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.2 | -5.7 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -3.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -4.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -143.0 | 9.4 | -5.7 | 1.3 | 2.7 | 162.7 | 56.3 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

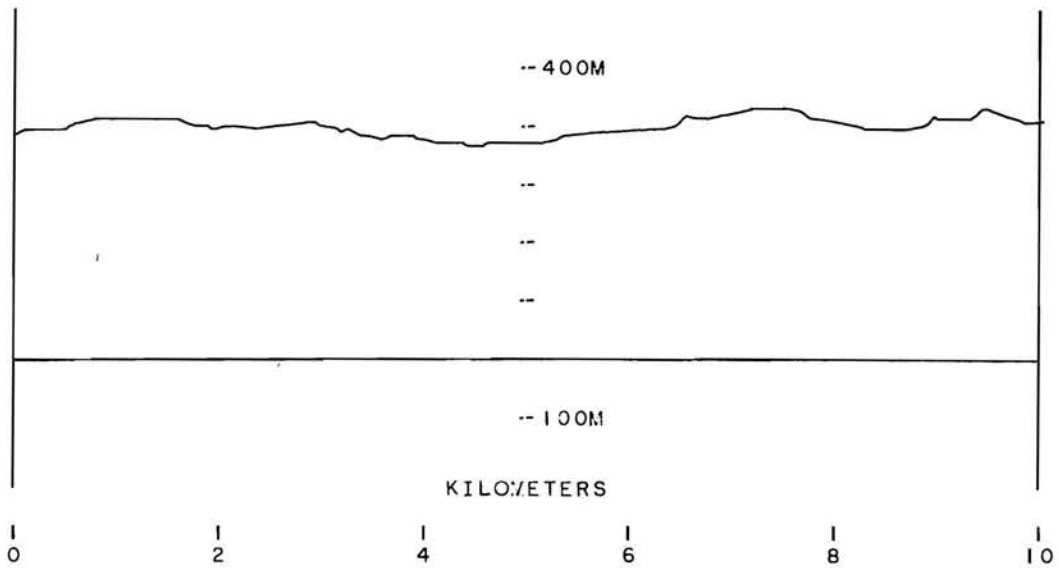
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 31
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 31

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-22-64

CLOSE 50FT TREES AND FENCES AND BUILDINGS. 75FT TREES .5MI BEYOND.
ELECTRIC LINES OVERHEAD.

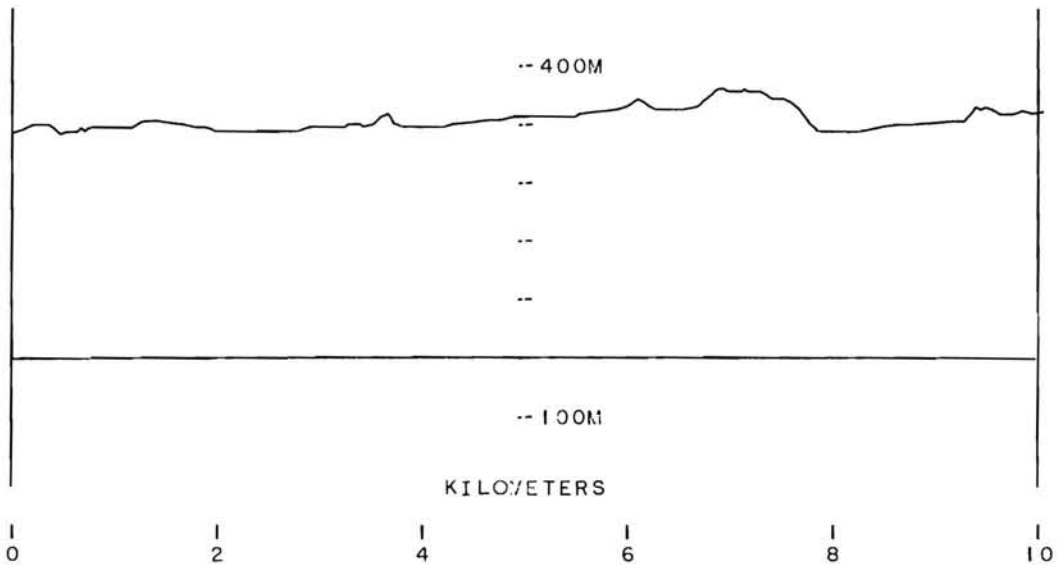
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 19.3 | -111.9 | | -5.4 | | 0.0 | 125.8 | 47.3 |
| (HLLS, 10, 20,V,V,AV,1) | 19.3 | -112.4 | | -5.4 | | 0.0 | 126.3 | 47.8 |
| (HLLS, 10, 20,V,V,AH,1) | 19.3 | -111.9 | | -5.4 | | 0.0 | 125.8 | 47.3 |
| (HLLS, 10, 50,V,V, P,1) | 20.4 | -115.4 | | -6.9 | | 0.8 | 128.1 | 41.6 |
| (HLLS, 10, 50,V,V, P,2) | 20.4 | -120.1 | | -5.6 | | 0.9 | 134.0 | 47.6 |
| (HLLS, 10, 50,V,V,AV,1) | 20.4 | -119.5 | | -6.9 | | 0.8 | 132.2 | 45.8 |
| (HLLS, 10, 50,V,V,AV,2) | 20.4 | -123.0 | | -5.6 | | 0.9 | 136.9 | 50.4 |
| (HLLS, 10, 50,V,V,AH,1) | 20.4 | -117.1 | | -6.9 | | 0.8 | 129.8 | 43.4 |
| (HLLS, 10, 50,V,V,AH,2) | 20.4 | -115.9 | | -5.6 | | 0.9 | 129.8 | 43.3 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -125.9 | 7.6 | -6.3 | 1.4 | 2.7 | 143.1 | 50.6 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -117.4 | 7.6 | -3.5 | 1.4 | 2.7 | 137.4 | 44.9 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -117.0 | 7.6 | -5.9 | 1.4 | 2.7 | 134.6 | 42.2 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -120.1 | 7.6 | -6.3 | 1.4 | 2.7 | 137.3 | 44.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -120.1 | 7.6 | -3.5 | 1.4 | 2.7 | 140.1 | 47.7 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -119.9 | 7.6 | -5.9 | 1.4 | 2.7 | 137.5 | 45.1 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -129.4 | 7.6 | -6.3 | 1.4 | 2.7 | 146.6 | 54.1 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -115.4 | 7.6 | -3.5 | 1.4 | 2.7 | 135.4 | 42.9 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -113.5 | 7.6 | -5.9 | 1.4 | 2.7 | 131.1 | 38.7 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -127.5 | 9.4 | -7.0 | 1.3 | 2.7 | 145.9 | 53.4 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -118.9 | 9.4 | -6.2 | 1.3 | 2.7 | 138.1 | 45.6 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -116.2 | 9.4 | -6.7 | 1.3 | 2.7 | 134.9 | 42.4 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -122.8 | 9.4 | -7.0 | 1.3 | 2.7 | 141.2 | 48.8 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -116.2 | 9.4 | -6.2 | 1.3 | 2.7 | 135.4 | 42.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -114.0 | 9.4 | -6.7 | 1.3 | 2.7 | 132.7 | 40.3 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -119.9 | 9.4 | -7.0 | 1.3 | 2.7 | 138.3 | 45.8 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -116.2 | 9.4 | -6.2 | 1.3 | 2.7 | 135.4 | 42.9 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -115.4 | 9.4 | -6.7 | 1.3 | 2.7 | 134.1 | 41.6 |

OHIO HILLS B= 10KM SITE 32

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 32

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-22-63

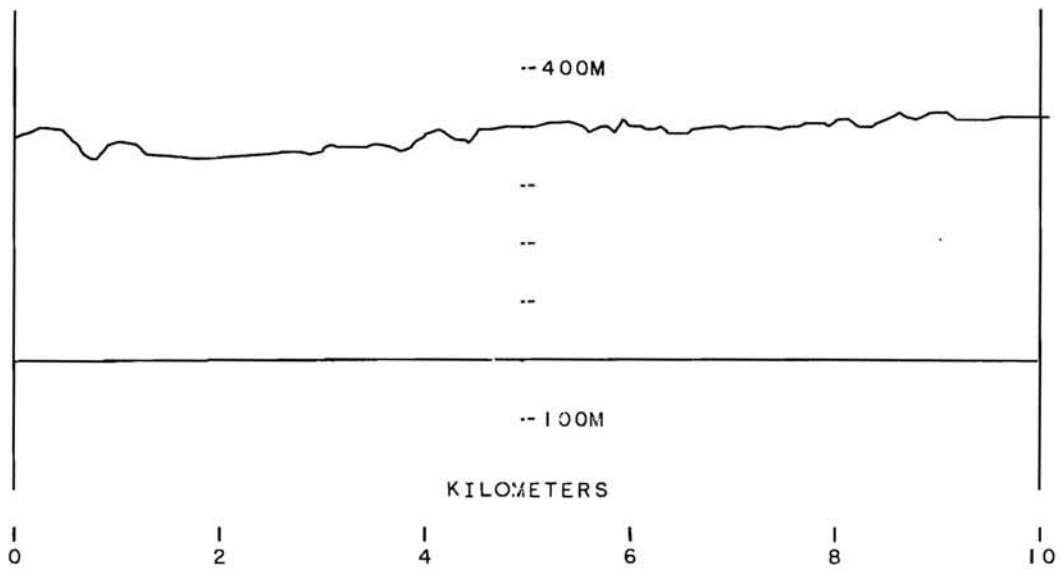
ELECTRIC WIRES AHEAD AND OVERHEAD; 70FT TREES .4MI AHEAD. 15FT BRUSH
SCATTERED OVER 10 ACRES TO RIGHT. ROLLING FIELD TO FRONT AND LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 22.0 | -115.4 | | -12.7 | | 0.0 | 124.7 | 46.3 |
| (HLLS, 10, 20,V,V,AV,1) | 22.0 | -111.4 | | -12.7 | | 0.0 | 120.7 | 42.3 |
| (HLLS, 10, 20,V,V,AH,1) | 22.0 | -123.4 | | -12.7 | | 0.0 | 132.7 | 54.3 |
| (HLLS, 10, 50,V,V, P,1) | 19.6 | -122.7 | | -7.4 | | 0.8 | 134.1 | 47.6 |
| (HLLS, 10, 50,V,V, P,2) | 19.6 | -111.1 | | -5.4 | | 0.9 | 124.4 | 38.0 |
| (HLLS, 10, 50,V,V,AV,1) | 19.6 | -113.9 | | -7.4 | | 0.8 | 125.3 | 38.8 |
| (HLLS, 10, 50,V,V,AV,2) | 19.6 | -108.4 | | -5.4 | | 0.9 | 121.7 | 35.3 |
| (HLLS, 10, 50,V,V,AH,1) | 19.6 | -114.6 | | -7.4 | | 0.8 | 126.0 | 39.6 |
| (HLLS, 10, 50,V,V,AH,2) | 19.6 | -108.7 | | -5.4 | | 0.9 | 122.0 | 35.6 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -134.7 | 7.6 | -9.0 | 1.4 | 2.7 | 149.2 | 56.8 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -115.3 | 7.6 | -3.5 | 1.4 | 2.7 | 135.3 | 42.9 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -110.6 | 7.6 | -6.6 | 1.4 | 2.7 | 127.5 | 35.0 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -111.9 | 7.6 | -9.0 | 1.4 | 2.7 | 126.4 | 33.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -109.0 | 7.6 | -3.5 | 1.4 | 2.7 | 129.0 | 36.6 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -106.1 | 7.6 | -6.6 | 1.4 | 2.7 | 123.0 | 30.6 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -119.3 | 7.6 | -9.0 | 1.4 | 2.7 | 133.8 | 41.4 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -113.0 | 7.6 | -3.5 | 1.4 | 2.7 | 133.0 | 40.6 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -107.6 | 7.6 | -6.6 | 1.4 | 2.7 | 124.5 | 32.1 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -120.5 | 9.4 | -4.9 | 1.3 | 2.7 | 141.0 | 48.6 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -114.6 | 9.4 | -5.1 | 1.3 | 2.7 | 134.9 | 42.5 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -113.5 | 9.4 | -5.2 | 1.3 | 2.7 | 133.7 | 41.3 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -126.4 | 9.4 | -4.9 | 1.3 | 2.7 | 146.9 | 54.4 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -112.4 | 9.4 | -5.1 | 1.3 | 2.7 | 132.7 | 40.3 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -108.7 | 9.4 | -5.2 | 1.3 | 2.7 | 128.9 | 36.4 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -114.8 | 9.4 | -4.9 | 1.3 | 2.7 | 135.3 | 42.9 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -114.8 | 9.4 | -5.1 | 1.3 | 2.7 | 135.1 | 42.7 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -109.0 | 9.4 | -5.2 | 1.3 | 2.7 | 129.2 | 36.8 |

OHIO HILLS B = 10KM SITE 33
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 10KM SITE 33

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-22-64

ROAD AND WIRES AHEAD, 70FT TREES, 600FT DEEP, AND HOUSES TO RIGHT AND LEFT. ELECTRIC LINE TO RIGHT.

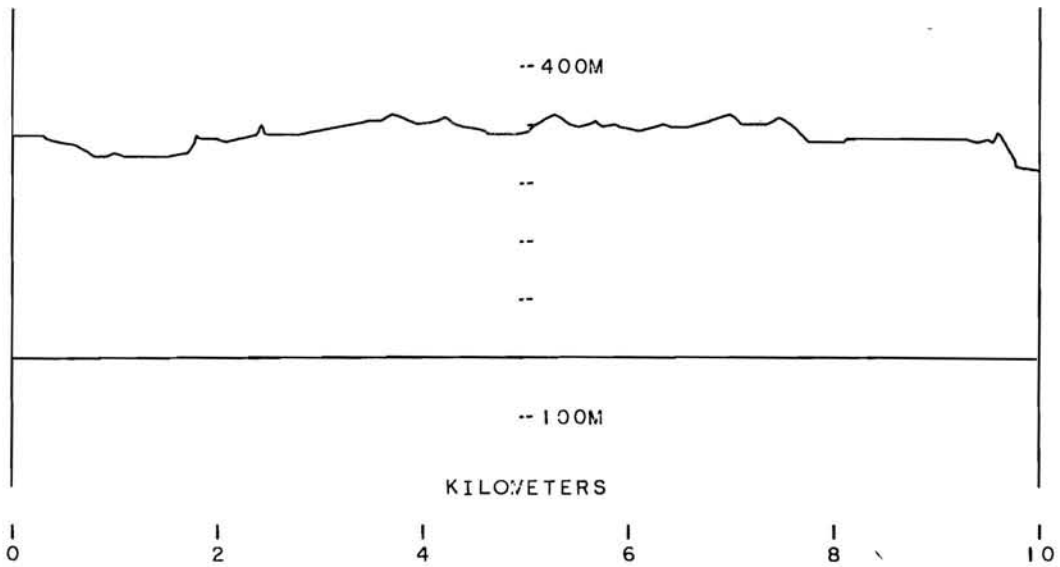
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 26.7 | -110.2 | | -12.7 | | 0.0 | 124.2 | 45.8 |
| (HLLS, 10, 20,V,V,AV,1) | 26.7 | -110.2 | | -12.7 | | 0.0 | 124.2 | 45.8 |
| (HLLS, 10, 20,V,V,AH,1) | 26.7 | -108.7 | | -12.7 | | 0.0 | 122.7 | 44.3 |
| (HLLS, 10, 50,V,V, P,1) | 16.9 | -121.0 | | -8.7 | | 0.8 | 128.4 | 41.9 |
| (HLLS, 10, 50,V,V, P,2) | 16.9 | -111.7 | | -5.5 | | 0.9 | 122.2 | 35.8 |
| (HLLS, 10, 50,V,V,AV,1) | 16.9 | -121.0 | | -8.7 | | 0.8 | 128.4 | 41.9 |
| (HLLS, 10, 50,V,V,AV,2) | 16.9 | -111.7 | | -5.5 | | 0.9 | 122.2 | 35.8 |
| (HLLS, 10, 50,V,V,AH,1) | 16.9 | -114.0 | | -8.7 | | 0.8 | 121.4 | 35.0 |
| (HLLS, 10, 50,V,V,AH,2) | 16.9 | -108.7 | | -5.5 | | 0.9 | 119.2 | 32.8 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -104.8 | 7.6 | -17.3 | 1.4 | 2.7 | 111.0 | 18.6 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -104.9 | 7.6 | -6.8 | 1.4 | 2.7 | 121.6 | 29.1 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -103.7 | 7.6 | -6.4 | 1.4 | 2.7 | 120.8 | 28.3 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -104.8 | 7.6 | -17.3 | 1.4 | 2.7 | 111.0 | 18.6 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -104.9 | 7.6 | -6.8 | 1.4 | 2.7 | 121.6 | 29.1 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -103.7 | 7.6 | -6.4 | 1.4 | 2.7 | 120.8 | 28.3 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -111.9 | 7.6 | -17.3 | 1.4 | 2.7 | 118.1 | 25.6 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -107.6 | 7.6 | -6.8 | 1.4 | 2.7 | 124.3 | 31.9 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -104.8 | 7.6 | -6.4 | 1.4 | 2.7 | 121.9 | 29.5 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -120.7 | 9.4 | -5.6 | 1.3 | 2.7 | 140.5 | 48.1 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -115.0 | 9.4 | -4.4 | 1.3 | 2.7 | 136.0 | 43.6 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -113.0 | 9.4 | -5.2 | 1.3 | 2.7 | 133.2 | 40.8 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -120.7 | 9.4 | -5.6 | 1.3 | 2.7 | 140.5 | 48.1 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -115.0 | 9.4 | -4.4 | 1.3 | 2.7 | 136.0 | 43.6 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -113.0 | 9.4 | -5.2 | 1.3 | 2.7 | 133.2 | 40.8 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -118.0 | 9.4 | -5.6 | 1.3 | 2.7 | 137.8 | 45.4 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -111.9 | 9.4 | -4.4 | 1.3 | 2.7 | 132.9 | 40.4 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -109.8 | 9.4 | -5.2 | 1.3 | 2.7 | 130.0 | 37.6 |

OHIO HILLS B= 10KM SITE 34

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 34

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-28-64

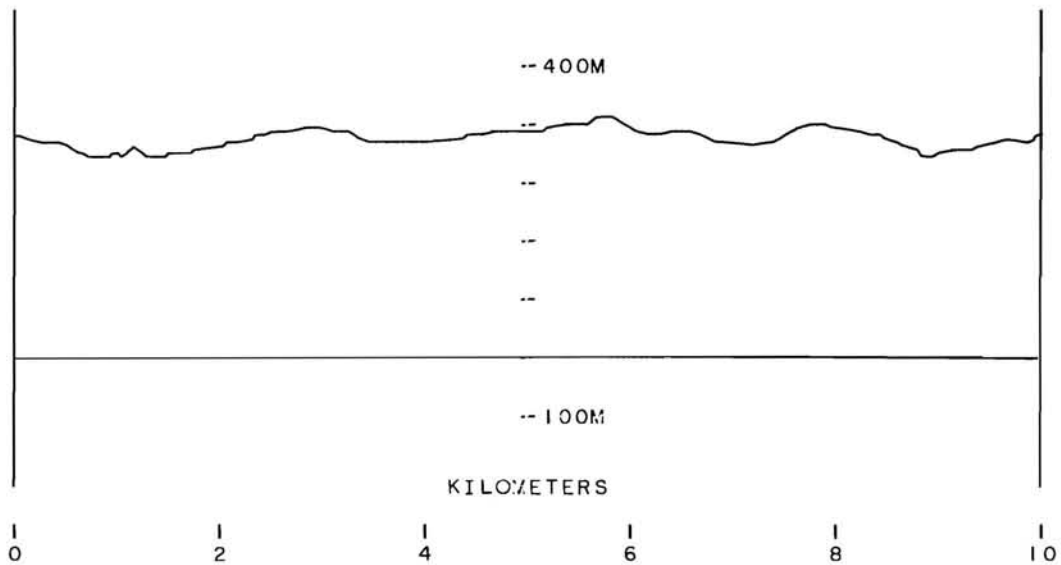
30FT TREE TO RIGHT FRONT, ROADS, PHONE, AND ELECTRIC LINES TO LEFT FRONT. LARGE BARN AND BUILDINGS AHEAD. 100FT HILL .5MI AHEAD, WITH 70FT TREES. HIGH TENSION LINE OVERHEAD TO REAR.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 25.0 | -111.8 | | -5.2 | | 0.0 | 131.6 | 53.2 |
| (HLLS, 10, 20,V,V,AV,1) | 25.0 | -109.8 | | -5.2 | | 0.0 | 129.6 | 51.2 |
| (HLLS, 10, 20,V,V,AH,1) | 25.0 | -108.7 | | -5.2 | | 0.0 | 128.5 | 50.1 |
| (HLLS, 10, 50,V,V, P,1) | 18.5 | -124.1 | | -7.1 | | 0.8 | 134.7 | 48.3 |
| (HLLS, 10, 50,V,V, P,2) | 18.5 | -127.6 | | -5.2 | | 0.9 | 140.0 | 53.6 |
| (HLLS, 10, 50,V,V,AV,1) | 18.5 | -122.0 | | -7.1 | | 0.8 | 132.6 | 46.1 |
| (HLLS, 10, 50,V,V,AV,2) | 18.5 | -131.0 | | -5.2 | | 0.9 | 143.4 | 56.9 |
| (HLLS, 10, 50,V,V,AH,1) | 18.5 | -123.2 | | -7.1 | | 0.8 | 133.8 | 47.3 |
| (HLLS, 10, 50,V,V,AH,2) | 18.5 | -123.7 | | -5.2 | | 0.9 | 136.1 | 49.6 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -129.4 | 7.6 | -4.8 | 1.4 | 2.7 | 148.1 | 55.6 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -118.8 | 7.6 | -2.5 | 1.4 | 2.7 | 139.8 | 47.4 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -116.8 | 7.6 | -6.3 | 1.4 | 2.7 | 134.0 | 41.6 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -115.4 | 7.6 | -4.8 | 1.4 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -110.6 | 7.6 | -2.5 | 1.4 | 2.7 | 131.6 | 39.2 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -109.0 | 7.6 | -6.3 | 1.4 | 2.7 | 126.2 | 33.7 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -121.2 | 7.6 | -4.8 | 1.4 | 2.7 | 139.9 | 47.4 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -116.9 | 7.6 | -2.5 | 1.4 | 2.7 | 137.9 | 45.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -114.7 | 7.6 | -6.3 | 1.4 | 2.7 | 131.9 | 39.4 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -129.4 | 9.4 | -3.0 | 1.3 | 2.7 | 151.8 | 59.4 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -129.4 | 9.4 | -6.1 | 1.3 | 2.7 | 148.7 | 56.3 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -125.2 | 9.4 | -7.0 | 1.3 | 2.7 | 143.6 | 51.1 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -126.9 | 9.4 | -3.0 | 1.3 | 2.7 | 149.3 | 56.8 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -125.9 | 9.4 | -6.1 | 1.3 | 2.7 | 145.2 | 52.8 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -123.0 | 9.4 | -7.0 | 1.3 | 2.7 | 141.4 | 48.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -127.2 | 9.4 | -3.0 | 1.3 | 2.7 | 149.6 | 57.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -127.2 | 9.4 | -6.1 | 1.3 | 2.7 | 146.5 | 54.1 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -123.0 | 9.4 | -7.0 | 1.3 | 2.7 | 141.4 | 48.9 |

OHIO HILLS B= 10KM SITE 35
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 35

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-22-64

LINES OVERHEAD AND ACROSS PATH, HIGH BANK AND 40FT TREES 50FT AHEAD,
WOODED AREA .5MI AHEAD.

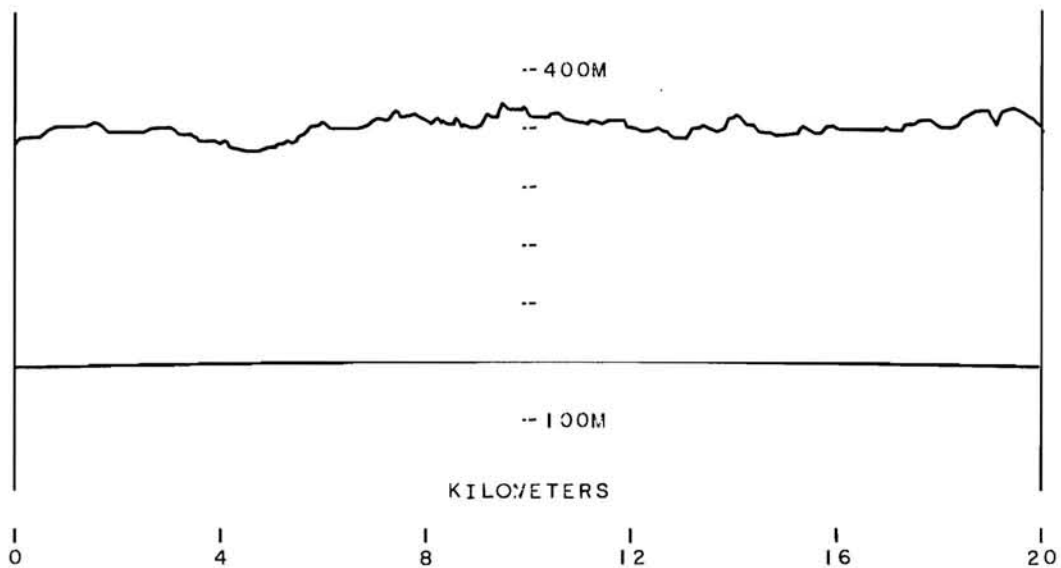
| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(I) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 27.5 | -98.9 | | -5.4 | 0.0 | | 121.0 | 42.5 |
| (HLLS, 10, 20,V,V,AV,1) | 27.5 | -102.5 | | -5.4 | 0.0 | | 124.6 | 46.2 |
| (HLLS, 10, 20,V,V,AH,1) | 27.5 | -102.8 | | -5.4 | 0.0 | | 124.9 | 46.5 |
| (HLLS, 10, 50,V,V, P,1) | 8.6 | -106.1 | | -6.7 | 0.8 | | 107.2 | 20.8 |
| (HLLS, 10, 50,V,V, P,2) | 8.6 | -111.9 | | -5.7 | 0.9 | | 113.9 | 27.4 |
| (HLLS, 10, 50,V,V,AV,1) | 8.6 | -106.4 | | -6.7 | 0.8 | | 107.5 | 21.0 |
| (HLLS, 10, 50,V,V,AV,2) | 8.6 | -111.0 | | -5.7 | 0.9 | | 113.0 | 26.6 |
| (HLLS, 10, 50,V,V,AH,1) | 8.6 | -105.6 | | -6.7 | 0.8 | | 106.7 | 20.3 |
| (HLLS, 10, 50,V,V,AH,2) | 8.6 | -111.5 | | -5.7 | 0.9 | | 113.5 | 27.1 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -109.0 | 7.6 | -7.7 | 1.4 | 2.7 | 124.8 | 32.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -97.9 | 7.6 | -4.0 | 1.4 | 2.7 | 117.4 | 24.9 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -94.0 | 7.6 | -5.6 | 1.4 | 2.7 | 111.9 | 19.4 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -99.6 | 7.6 | -7.7 | 1.4 | 2.7 | 115.4 | 23.0 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -95.4 | 7.6 | -4.0 | 1.4 | 2.7 | 114.9 | 22.4 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -95.4 | 7.6 | -5.6 | 1.4 | 2.7 | 113.3 | 20.8 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -106.1 | 7.6 | -7.7 | 1.4 | 2.7 | 121.9 | 29.5 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -97.0 | 7.6 | -4.0 | 1.4 | 2.7 | 116.5 | 24.0 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -95.4 | 7.6 | -5.6 | 1.4 | 2.7 | 113.3 | 20.8 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -108.4 | 9.4 | -8.7 | 1.3 | 2.7 | 125.1 | 32.6 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -101.2 | 9.4 | -6.3 | 1.3 | 2.7 | 120.3 | 27.8 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -97.0 | 9.4 | -6.5 | 1.3 | 2.7 | 115.9 | 23.4 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -119.9 | 9.4 | -8.7 | 1.3 | 2.7 | 136.6 | 44.1 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -105.9 | 9.4 | -6.3 | 1.3 | 2.7 | 125.0 | 32.5 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -102.2 | 9.4 | -6.5 | 1.3 | 2.7 | 121.1 | 28.6 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -104.8 | 9.4 | -8.7 | 1.3 | 2.7 | 121.5 | 29.1 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -100.1 | 9.4 | -6.3 | 1.3 | 2.7 | 119.2 | 26.8 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -96.9 | 9.4 | -6.5 | 1.3 | 2.7 | 115.8 | 23.3 |

OHIO HILLS H= 20KM SITE 31

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 31

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-28-64

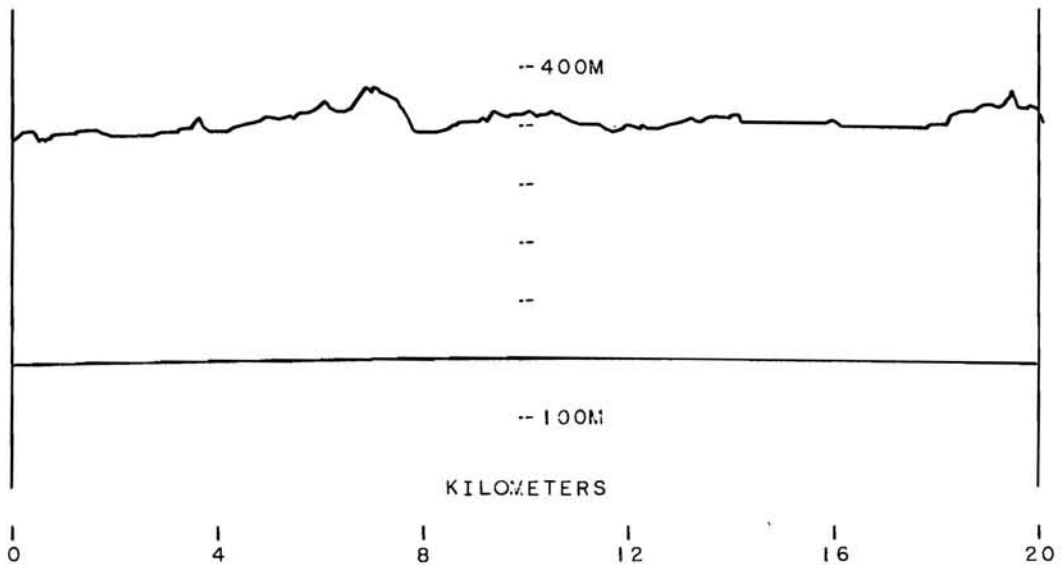
12FT BANK WITH 20FT TREE-COVER AHEAD, SCATTERED TREES BEYOND, BUILDINGS 500FT AHEAD, 40FT TREES 1/2MI AHEAD. LINES OVERHEAD TO RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.3 | -134.7 | | -10.6 | | 0.0 | 143.4 | 58.9 |
| (HLLS, 20, 20,V,V,AV,1) | 19.3 | -134.7 | | -10.6 | | 0.0 | 143.4 | 58.9 |
| (HLLS, 20, 20,V,V,AH,1) | 19.3 | -134.0 | | -10.6 | | 0.0 | 142.7 | 58.2 |
| (HLLS, 20, 50,V,V, P,1) | 20.4 | -129.8 | | -9.6 | | 0.8 | 139.8 | 47.3 |
| (HLLS, 20, 50,V,V, P,2) | 20.4 | -126.1 | | -5.2 | | 0.9 | 140.4 | 47.9 |
| (HLLS, 20, 50,V,V,AV,1) | 20.4 | -129.8 | | -9.6 | | 0.8 | 139.8 | 47.3 |
| (HLLS, 20, 50,V,V,AV,2) | 20.4 | -126.1 | | -5.2 | | 0.9 | 140.4 | 47.9 |
| (HLLS, 20, 50,V,V,AH,1) | 20.4 | -130.6 | | -9.6 | | 0.8 | 140.6 | 48.1 |
| (HLLS, 20, 50,V,V,AH,2) | 20.4 | -125.9 | | -5.2 | | 0.9 | 140.2 | 47.7 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -6.7 | 1.4 | 2.7 | 152.2 | 53.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -130.2 | 7.6 | -1.6 | 1.4 | 2.7 | 152.1 | 53.6 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -128.4 | 7.6 | -4.3 | 1.4 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -135.4 | 7.6 | -6.7 | 1.4 | 2.7 | 152.2 | 53.7 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -130.2 | 7.6 | -1.6 | 1.4 | 2.7 | 152.1 | 53.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -128.4 | 7.6 | -4.3 | 1.4 | 2.7 | 147.6 | 49.1 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -137.0 | 7.6 | -6.7 | 1.4 | 2.7 | 153.8 | 55.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -130.6 | 7.6 | -1.6 | 1.4 | 2.7 | 152.5 | 54.0 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -129.0 | 7.6 | -4.3 | 1.4 | 2.7 | 148.2 | 49.7 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -1.8 | 1.3 | 2.7 | 162.5 | 64.0 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -6.0 | 1.3 | 2.7 | 158.3 | 59.8 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -138.7 | 9.4 | -4.6 | 1.3 | 2.7 | 159.5 | 61.0 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -1.8 | 1.3 | 2.7 | 162.5 | 64.0 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -138.9 | 9.4 | -6.0 | 1.3 | 2.7 | 158.3 | 59.8 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -138.7 | 9.4 | -4.6 | 1.3 | 2.7 | 159.5 | 61.0 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -137.0 | 9.4 | -1.8 | 1.3 | 2.7 | 160.6 | 62.1 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -131.9 | 9.4 | -6.0 | 1.3 | 2.7 | 151.3 | 52.8 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -131.4 | 9.4 | -4.6 | 1.3 | 2.7 | 152.2 | 53.7 |

OHIO HILLS B= 20KM SITE 32
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 32

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-24-64

25FT BRUSH 500FT DEEP ON 50FT HILL RISE AHEAD. 20FT PHONE LINE 35FT TO RIGHT, ROAD ON LEFT, ALSO HIGH ELECTRIC LINES.

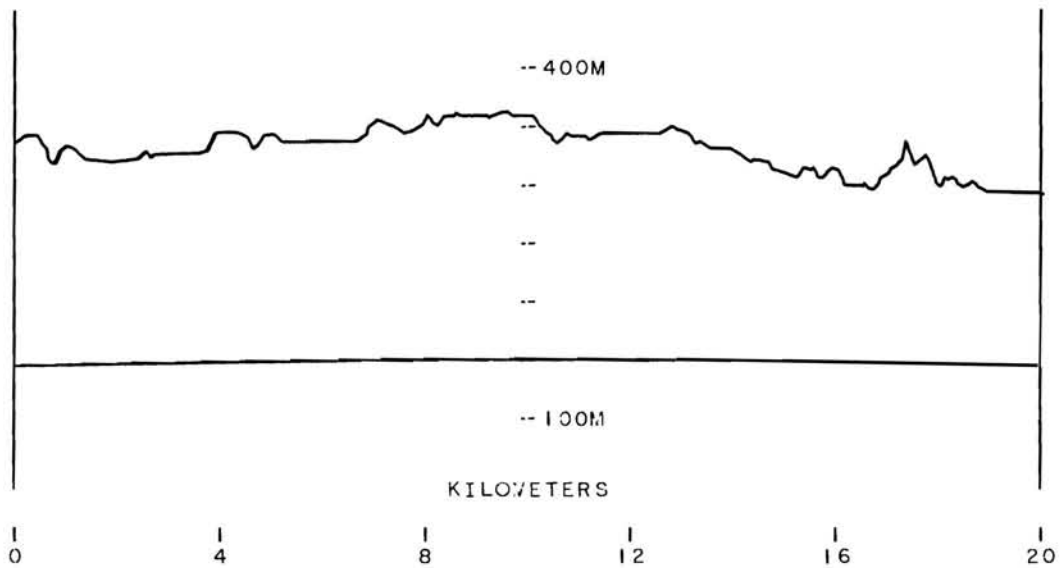
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.0 | -135.4 | | -5.5 | | 0.0 | 151.9 | 67.4 |
| (HLLS, 20, 20,V,V,AV,1) | 22.0 | -126.6 | | -5.5 | | 0.0 | 143.1 | 58.6 |
| (HLLS, 20, 20,V,V,AH,1) | 22.0 | -135.4 | | -5.5 | | 0.0 | 151.9 | 67.4 |
| (HLLS, 20, 50,V,V, P,1) | 19.6 | -131.4 | | -6.7 | | 0.8 | 143.5 | 51.0 |
| (HLLS, 20, 50,V,V, P,2) | 19.6 | -135.4 | | -5.7 | | 0.9 | 148.4 | 55.9 |
| (HLLS, 20, 50,V,V,AV,1) | 19.6 | -131.4 | | -6.7 | | 0.8 | 143.5 | 51.0 |
| (HLLS, 20, 50,V,V,AV,2) | 19.6 | -132.9 | | -5.7 | | 0.9 | 145.9 | 53.4 |
| (HLLS, 20, 50,V,V,AH,1) | 19.6 | -130.6 | | -6.7 | | 0.8 | 142.7 | 50.2 |
| (HLLS, 20, 50,V,V,AH,2) | 19.6 | -135.4 | | -5.7 | | 0.9 | 148.4 | 55.9 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -140.8 | 7.6 | -7.2 | 1.4 | 2.7 | 157.1 | 58.6 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -140.8 | 7.6 | -3.8 | 1.4 | 2.7 | 160.5 | 62.0 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -5.7 | 1.4 | 2.7 | 155.7 | 57.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -7.2 | 1.4 | 2.7 | 150.3 | 51.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -132.4 | 7.6 | -3.8 | 1.4 | 2.7 | 152.1 | 53.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -132.4 | 7.6 | -5.7 | 1.4 | 2.7 | 150.2 | 51.7 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -140.8 | 7.6 | -7.2 | 1.4 | 2.7 | 157.1 | 58.6 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -140.8 | 7.6 | -3.8 | 1.4 | 2.7 | 160.5 | 62.0 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -134.7 | 7.6 | -5.7 | 1.4 | 2.7 | 152.5 | 54.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -140.8 | 9.4 | -8.1 | 1.3 | 2.7 | 158.1 | 59.6 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -135.4 | 9.4 | -6.3 | 1.3 | 2.7 | 154.5 | 56.0 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -6.5 | 1.3 | 2.7 | 153.6 | 55.1 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -134.4 | 9.4 | -8.1 | 1.3 | 2.7 | 151.7 | 53.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -132.9 | 9.4 | -6.3 | 1.3 | 2.7 | 152.0 | 53.5 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -132.4 | 9.4 | -6.5 | 1.3 | 2.7 | 151.3 | 52.8 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -131.9 | 9.4 | -8.1 | 1.3 | 2.7 | 149.2 | 50.7 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -132.4 | 9.4 | -6.3 | 1.3 | 2.7 | 151.5 | 53.0 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -127.5 | 9.4 | -6.5 | 1.3 | 2.7 | 146.4 | 47.9 |

OHIO HILLS B= 20KM SITE 33

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 33

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-23-64

CREEK 50FT AHEAD WITH STEEP HILL COVERED BY BRUSH AND TREES, BARN 200 FT AHEAD. STEEP BANK WITH BRUSH AND TREES ON LEFT.

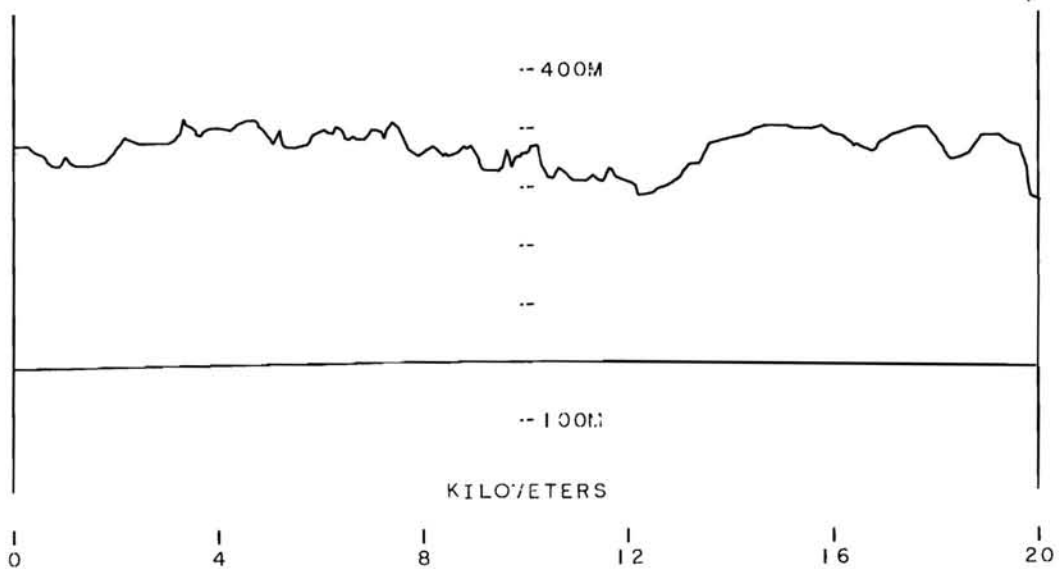
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 26.7 | -127.5 | | -12.5 | | 0.0 | 141.7 | 57.2 |
| (HLLS, 20, 20,V,V,AV,1) | 26.7 | -125.4 | | -12.5 | | 0.0 | 139.6 | 55.1 |
| (HLLS, 20, 20,V,V,AH,1) | 26.7 | -125.4 | | -12.5 | | 0.0 | 139.6 | 55.1 |
| (HLLS, 20, 50,V,V, P,1) | 16.9 | ** | | -10.0 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V, P,2) | 16.9 | -147.5 | | -7.5 | | 0.9 | 156.0 | 63.5 |
| (HLLS, 20, 50,V,V,AV,1) | 16.9 | ** | | -10.0 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V,AV,2) | 16.9 | -145.0 | | -7.5 | | 0.9 | 153.5 | 61.0 |
| (HLLS, 20, 50,V,V,AH,1) | 16.9 | ** | | -10.0 | | 0.8 | ** | ** |
| (HLLS, 20, 50,V,V,AH,2) | 16.9 | -145.0 | | -7.5 | | 0.9 | 153.5 | 61.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | ** | 7.6 | -22.9 | 1.4 | 2.7 | ** | ** |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -141.1 | 7.6 | -7.8 | 1.4 | 2.7 | 156.8 | 58.3 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -128.1 | 7.6 | -5.9 | 1.4 | 2.7 | 145.7 | 47.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -131.9 | 7.6 | -22.9 | 1.4 | 2.7 | 132.5 | 34.0 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -127.5 | 7.6 | -7.8 | 1.4 | 2.7 | 143.2 | 44.7 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -126.6 | 7.6 | -5.9 | 1.4 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -131.9 | 7.6 | -22.9 | 1.4 | 2.7 | 132.5 | 34.0 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -127.5 | 7.6 | -7.8 | 1.4 | 2.7 | 143.2 | 44.7 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -126.6 | 7.6 | -5.9 | 1.4 | 2.7 | 144.2 | 45.7 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -4.4 | 1.3 | 2.7 | 159.9 | 61.4 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 60.6 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -5.1 | 1.3 | 2.7 | 159.2 | 60.7 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -138.9 | 9.4 | -4.4 | 1.3 | 2.7 | 159.9 | 61.4 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 60.6 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -138.9 | 9.4 | -5.1 | 1.3 | 2.7 | 159.2 | 60.7 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -138.9 | 9.4 | -4.4 | 1.3 | 2.7 | 159.9 | 61.4 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 60.6 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 20KM SITF 34
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 9= 20KM SITE 34

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-23-64

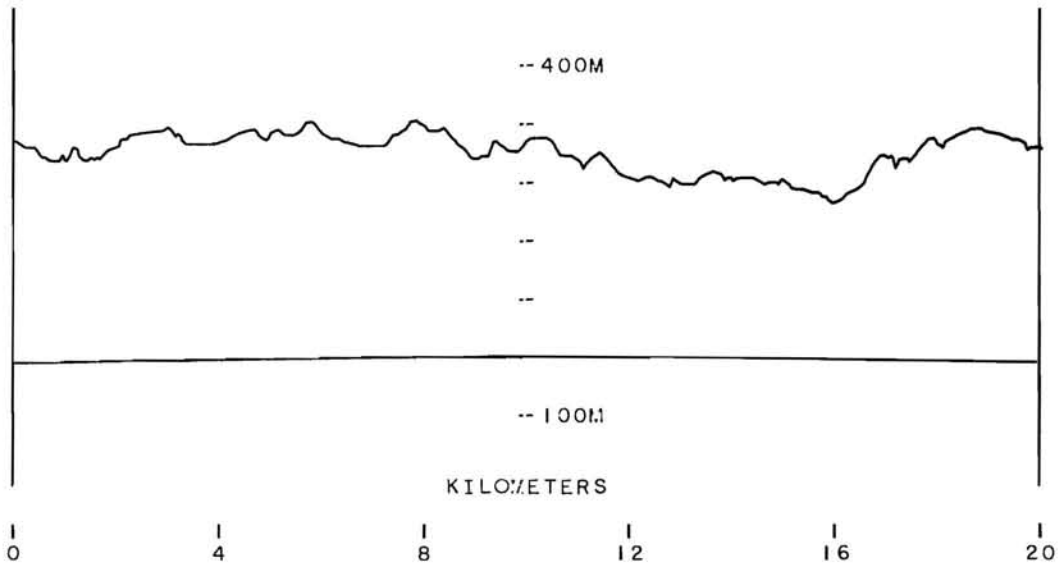
STEEP HILL WITH 40FT TREE-COVER AND HOUSE ON TOP .3MI AHEAD. ELEC-
TRIC LINES BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 25.0 | -123.0 | | -5.7 | | 0.0 | 142.3 | 57.8 |
| (HLLS, 20, 20,V,V,AV,1) | 25.0 | -122.2 | | -5.7 | | 0.0 | 141.5 | 57.0 |
| (HLLS, 20, 20,V,V,AH,1) | 25.0 | -123.0 | | -5.7 | | 0.0 | 142.3 | 57.8 |
| (HLLS, 20, 50,V,V, P,1) | 18.5 | -137.9 | | -8.2 | | 0.8 | 147.4 | 54.9 |
| (HLLS, 20, 50,V,V, P,2) | 18.5 | -137.0 | | -7.5 | | 0.9 | 147.1 | 54.6 |
| (HLLS, 20, 50,V,V,AV,1) | 18.5 | -137.9 | | -8.2 | | 0.8 | 147.4 | 54.9 |
| (HLLS, 20, 50,V,V,AV,2) | 18.5 | -133.5 | | -7.5 | | 0.9 | 143.6 | 51.1 |
| (HLLS, 20, 50,V,V,AH,1) | 18.5 | -137.9 | | -8.2 | | 0.8 | 147.4 | 54.9 |
| (HLLS, 20, 50,V,V,AH,2) | 18.5 | -137.0 | | -7.5 | | 0.9 | 147.1 | 54.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -130.6 | 7.6 | -6.2 | 1.4 | 2.7 | 147.9 | 49.4 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -125.4 | 7.6 | -2.6 | 1.4 | 2.7 | 146.3 | 47.8 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -125.2 | 7.6 | -2.3 | 1.4 | 2.7 | 146.4 | 47.9 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -128.4 | 7.6 | -6.2 | 1.4 | 2.7 | 145.7 | 47.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -124.8 | 7.6 | -2.6 | 1.4 | 2.7 | 145.7 | 47.2 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -124.8 | 7.6 | -2.3 | 1.4 | 2.7 | 146.0 | 47.5 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -130.6 | 7.6 | -6.2 | 1.4 | 2.7 | 147.9 | 49.4 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -125.4 | 7.6 | -2.6 | 1.4 | 2.7 | 146.3 | 47.8 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -125.2 | 7.6 | -2.3 | 1.4 | 2.7 | 146.4 | 47.9 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -140.0 | 9.4 | -2.7 | 1.3 | 2.7 | 162.7 | 64.2 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -139.7 | 9.4 | -4.7 | 1.3 | 2.7 | 160.4 | 61.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -139.5 | 9.4 | -5.0 | 1.3 | 2.7 | 159.9 | 61.4 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | -2.7 | 1.3 | 2.7 | 162.8 | 64.3 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -140.0 | 9.4 | -4.7 | 1.3 | 2.7 | 160.7 | 62.2 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -139.7 | 9.4 | -5.0 | 1.3 | 2.7 | 160.1 | 61.6 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -140.0 | 9.4 | -2.7 | 1.3 | 2.7 | 162.7 | 64.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -139.7 | 9.4 | -4.7 | 1.3 | 2.7 | 160.4 | 61.9 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -139.5 | 9.4 | -5.0 | 1.3 | 2.7 | 159.9 | 61.4 |

OHIO HILLS B= 20KM SITE 35
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 35

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-29-64

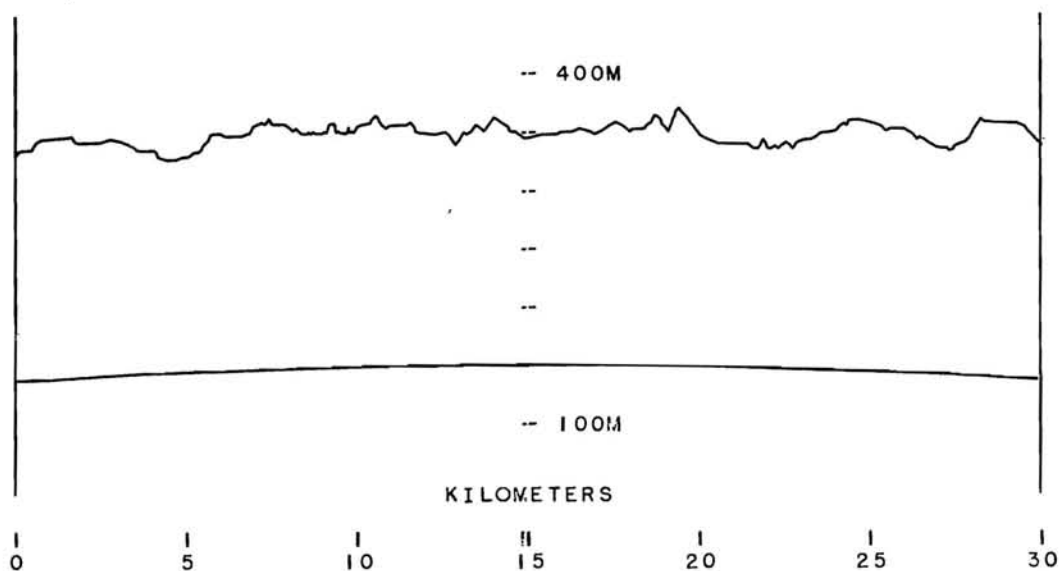
PHONE LINES TO FRONT AND RIGHT, BRUSH AND 10FT TREES 300FT DEEP 200FT
AHEAD, HOUSE .3MI AHEAD WITH SCATTERED TREES BEYOND. ROAD AND ELEC-
TRIC LINES BEHIND.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 27.5 | -118.9 | | -6.2 | | 0.0 | 140.2 | 55.7 |
| (HLLS, 20, 20,V,V,AV,1) | 27.5 | -118.8 | | -6.2 | | 0.0 | 140.1 | 55.6 |
| (HLLS, 20, 20,V,V,AH,1) | 27.5 | -123.7 | | -6.2 | | 0.0 | 145.0 | 60.5 |
| (HLLS, 20, 50,V,V, P,1) | 8.6 | -125.9 | | -9.5 | | 0.8 | 124.2 | 31.7 |
| (HLLS, 20, 50,V,V, P,2) | 8.6 | -122.8 | | -7.0 | | 0.9 | 123.5 | 31.0 |
| (HLLS, 20, 50,V,V,AV,1) | 8.6 | -123.0 | | -9.5 | | 0.8 | 121.3 | 28.8 |
| (HLLS, 20, 50,V,V,AV,2) | 8.6 | -118.9 | | -7.0 | | 0.9 | 119.6 | 27.1 |
| (HLLS, 20, 50,V,V,AH,1) | 8.6 | -126.4 | | -9.5 | | 0.8 | 124.7 | 32.2 |
| (HLLS, 20, 50,V,V,AH,2) | 8.6 | -117.8 | | -7.0 | | 0.9 | 118.5 | 26.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -123.9 | 7.6 | -8.9 | 1.4 | 2.7 | 138.5 | 40.0 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -117.7 | 7.6 | -3.5 | 1.4 | 2.7 | 137.7 | 39.2 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -114.8 | 7.6 | -6.6 | 1.4 | 2.7 | 131.7 | 33.2 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -119.5 | 7.6 | -8.9 | 1.4 | 2.7 | 134.1 | 35.6 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -114.0 | 7.6 | -3.5 | 1.4 | 2.7 | 134.0 | 35.5 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -110.6 | 7.6 | -6.6 | 1.4 | 2.7 | 127.5 | 29.0 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -123.2 | 7.6 | -8.9 | 1.4 | 2.7 | 137.8 | 39.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -115.4 | 7.6 | -3.5 | 1.4 | 2.7 | 135.4 | 36.9 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -113.0 | 7.6 | -6.6 | 1.4 | 2.7 | 129.9 | 31.4 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -125.9 | 9.4 | -4.7 | 1.3 | 2.7 | 146.6 | 48.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -118.8 | 9.4 | -5.1 | 1.3 | 2.7 | 139.1 | 40.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -116.1 | 9.4 | -5.2 | 1.3 | 2.7 | 136.3 | 37.8 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.0 | 9.4 | -4.7 | 1.3 | 2.7 | 143.7 | 45.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -115.3 | 9.4 | -5.1 | 1.3 | 2.7 | 135.6 | 37.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -113.5 | 9.4 | -5.2 | 1.3 | 2.7 | 133.7 | 35.2 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -121.6 | 9.4 | -4.7 | 1.3 | 2.7 | 142.3 | 43.8 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.2 | 9.4 | -5.1 | 1.3 | 2.7 | 134.5 | 36.0 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -111.4 | 9.4 | -5.2 | 1.3 | 2.7 | 131.6 | 33.1 |

OHIO HILLS B= 30KM SITE 31
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 31

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-31-64

HOUSE .2MI AHEAD, 50FT TREES 500FT DEEP BEYOND. PHONE LINES ON LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AV,1) | 19.3 | -133.5 | | -10.6 | | 0.0 | 142.2 | 54.2 |
| (HLLS, 30, 20,V,V,AH,1) | 19.3 | -132.9 | | -10.6 | | 0.0 | 141.6 | 53.6 |
| (HLLS, 30, 50,V,V, P,1) | 20.4 | -133.5 | | -9.6 | | 0.8 | 143.5 | 47.5 |
| (HLLS, 30, 50,V,V, P,2) | 20.4 | -131.9 | | -5.2 | | 0.9 | 146.2 | 50.2 |
| (HLLS, 30, 50,V,V,AV,1) | 20.4 | -136.2 | | -9.6 | | 0.8 | 146.2 | 50.2 |
| (HLLS, 30, 50,V,V,AV,2) | 20.4 | -133.5 | | -5.2 | | 0.9 | 147.8 | 51.8 |
| (HLLS, 30, 50,V,V,AH,1) | 20.4 | -134.0 | | -9.6 | | 0.8 | 144.0 | 48.0 |
| (HLLS, 30, 50,V,V,AH,2) | 20.4 | -131.9 | | -5.2 | | 0.9 | 146.2 | 50.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -6.8 | 1.4 | 2.7 | 158.2 | 56.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -134.7 | 7.6 | -1.6 | 1.4 | 2.7 | 156.6 | 54.6 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -4.3 | 1.4 | 2.7 | 150.2 | 48.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -6.8 | 1.4 | 2.7 | 150.7 | 48.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.0 | 7.6 | -1.6 | 1.4 | 2.7 | 152.9 | 50.9 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -128.1 | 7.6 | -4.3 | 1.4 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -134.7 | 7.6 | -6.8 | 1.4 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -129.8 | 7.6 | -1.6 | 1.4 | 2.7 | 151.7 | 49.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.0 | 7.6 | -4.3 | 1.4 | 2.7 | 148.2 | 46.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -141.5 | 9.4 | -1.8 | 1.3 | 2.7 | 165.1 | 63.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -136.2 | 9.4 | -6.0 | 1.3 | 2.7 | 155.6 | 53.6 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -4.6 | 1.3 | 2.7 | 155.5 | 53.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | -1.8 | 1.3 | 2.7 | 163.7 | 61.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -132.4 | 9.4 | -6.0 | 1.3 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -132.4 | 9.4 | -4.6 | 1.3 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -137.9 | 9.4 | -1.8 | 1.3 | 2.7 | 161.5 | 59.5 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -132.4 | 9.4 | -6.0 | 1.3 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -129.0 | 9.4 | -4.6 | 1.3 | 2.7 | 149.8 | 47.8 |

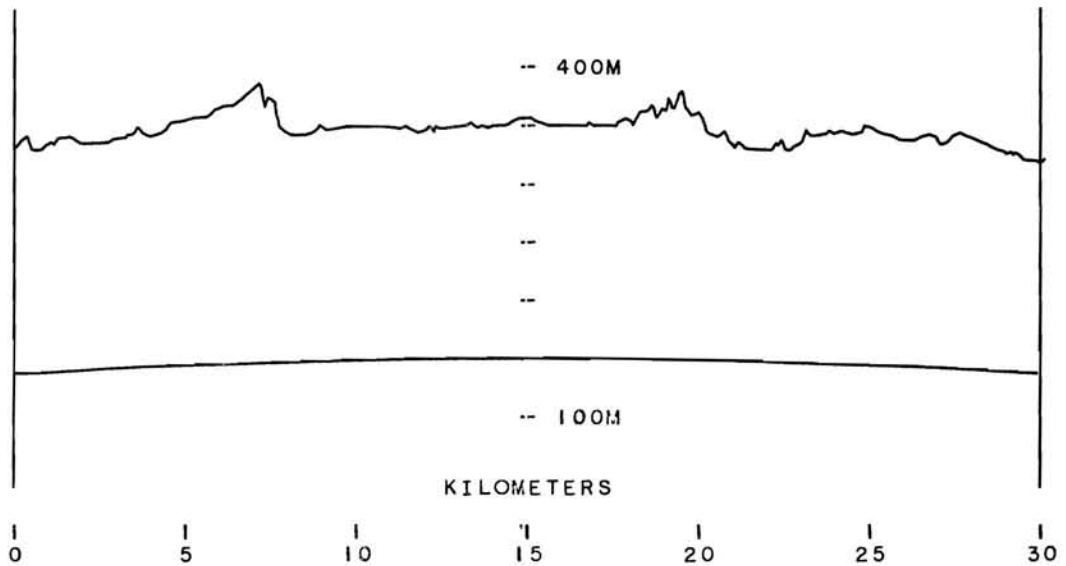
* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 32

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 30KM SITE 32

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-24-64

BUILDINGS TO RIGHT AND FRONT .5MI, 60FT TREES .02MI DEEP 1MI AHEAD,
ROAD AHEAD. WIRES ON RIGHT, ALSO FENCES AND SCATTERED TREES. DENSE
WOODS .3MI ON LEFT, .2MI DEEP.

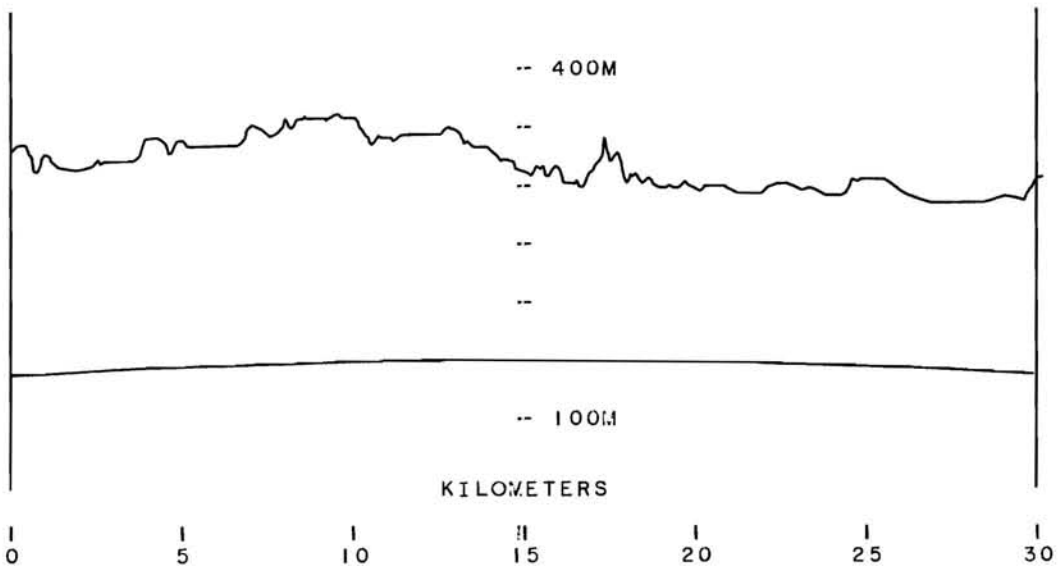
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.0 | -128.7 | | -5.4 | | 0.0 | 145.3 | 57.3 |
| (HLLS, 30, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 20,V,V,AH,1) | 22.0 | -129.4 | | -5.4 | | 0.0 | 146.0 | 58.0 |
| (HLLS, 30, 50,V,V, P,1) | 19.6 | -127.5 | | -6.1 | | 0.8 | 140.2 | 44.2 |
| (HLLS, 30, 50,V,V, P,2) | 19.6 | -128.7 | | -6.5 | | 0.9 | 140.9 | 44.9 |
| (HLLS, 30, 50,V,V,AV,1) | 19.6 | -137.0 | | -6.1 | | 0.8 | 149.7 | 53.7 |
| (HLLS, 30, 50,V,V,AV,2) | 19.6 | -138.9 | | -6.5 | | 0.9 | 151.1 | 55.1 |
| (HLLS, 30, 50,V,V,AH,1) | 19.6 | -127.2 | | -6.1 | | 0.8 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V,AH,2) | 19.6 | -127.5 | | -6.5 | | 0.9 | 139.7 | 43.7 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -135.4 | 7.6 | -8.9 | 1.4 | 2.7 | 150.0 | 48.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.6 | 7.6 | -4.3 | 1.4 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -125.2 | 7.6 | -5.3 | 1.4 | 2.7 | 143.4 | 41.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -134.0 | 7.6 | -8.9 | 1.4 | 2.7 | 148.6 | 46.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -127.6 | 7.6 | -4.3 | 1.4 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -125.4 | 7.6 | -5.3 | 1.4 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -135.4 | 7.6 | -8.9 | 1.4 | 2.7 | 150.0 | 48.0 |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.9 | 9.4 | -9.3 | 1.3 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.1 | 9.4 | -6.2 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.4 | 9.4 | -6.1 | 1.3 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -135.5 | 9.4 | -9.3 | 1.3 | 2.7 | 151.6 | 49.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -127.5 | 9.4 | -6.2 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -126.6 | 9.4 | -6.1 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.0 | 9.4 | -9.3 | 1.3 | 2.7 | 147.1 | 45.1 |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS H= 30KM SITE 33
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 33

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-30-64

DENSE 35FT TREES, 500FT DEEP, 70FT AWAY, SLOPING VALLEY BEYOND, PHONE
LINE 30FT AHEAD. BUILDINGS AND SCATTERED TREES ON LEFT, ROAD AND
POWER LINES ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 26.7 | -126.4 | | -12.4 | | 0.0 | 140.7 | 52.7 |
| (HLLS, 30, 20,V,V,AV,1) | 26.7 | -129.8 | | -12.4 | | 0.0 | 144.1 | 56.1 |
| (HLLS, 30, 20,V,V,AH,1) | 26.7 | -129.8 | | -12.4 | | 0.0 | 144.1 | 56.1 |
| (HLLS, 30, 50,V,V, P,1) | 16.9 | -135.4 | | -10.5 | | 0.8 | 141.0 | 45.0 |
| (HLLS, 30, 50,V,V, P,2) | 16.9 | -129.4 | | -5.5 | | 0.9 | 139.9 | 43.9 |
| (HLLS, 30, 50,V,V,AV,1) | 16.9 | -137.0 | | -10.5 | | 0.8 | 142.6 | 46.6 |
| (HLLS, 30, 50,V,V,AV,2) | 16.9 | -131.4 | | -5.5 | | 0.9 | 141.9 | 45.9 |
| (HLLS, 30, 50,V,V,AH,1) | 16.9 | -137.0 | | -10.5 | | 0.8 | 142.6 | 46.6 |
| (HLLS, 30, 50,V,V,AH,2) | 16.9 | -131.4 | | -5.5 | | 0.9 | 141.9 | 45.9 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -121.7 | 7.6 | -23.5 | 1.4 | 2.7 | 121.7 | 19.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -116.5 | 7.6 | -8.0 | 1.4 | 2.7 | 132.0 | 30.0 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -114.0 | 7.6 | -5.9 | 1.4 | 2.7 | 131.6 | 29.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -121.2 | 7.6 | -23.5 | 1.4 | 2.7 | 121.2 | 19.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -118.7 | 7.6 | -8.0 | 1.4 | 2.7 | 134.2 | 32.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -115.6 | 7.6 | -5.9 | 1.4 | 2.7 | 133.2 | 31.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -121.2 | 7.6 | -23.5 | 1.4 | 2.7 | 121.2 | 19.2 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -118.7 | 7.6 | -8.0 | 1.4 | 2.7 | 134.2 | 32.2 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -115.6 | 7.6 | -5.9 | 1.4 | 2.7 | 133.2 | 31.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -135.4 | 9.4 | -4.9 | 1.3 | 2.7 | 155.9 | 53.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -126.4 | 9.4 | -4.4 | 1.3 | 2.7 | 147.4 | 45.4 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -123.0 | 9.4 | -5.3 | 1.3 | 2.7 | 143.1 | 41.1 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -125.9 | 9.4 | -4.9 | 1.3 | 2.7 | 146.4 | 44.4 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -124.5 | 9.4 | -4.4 | 1.3 | 2.7 | 145.5 | 43.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -122.0 | 9.4 | -5.3 | 1.3 | 2.7 | 142.1 | 40.1 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -125.9 | 9.4 | -4.9 | 1.3 | 2.7 | 146.4 | 44.4 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -124.5 | 9.4 | -4.4 | 1.3 | 2.7 | 145.5 | 43.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -122.0 | 9.4 | -5.3 | 1.3 | 2.7 | 142.1 | 40.1 |

OHIO HILLS B= 30KM SITE 34

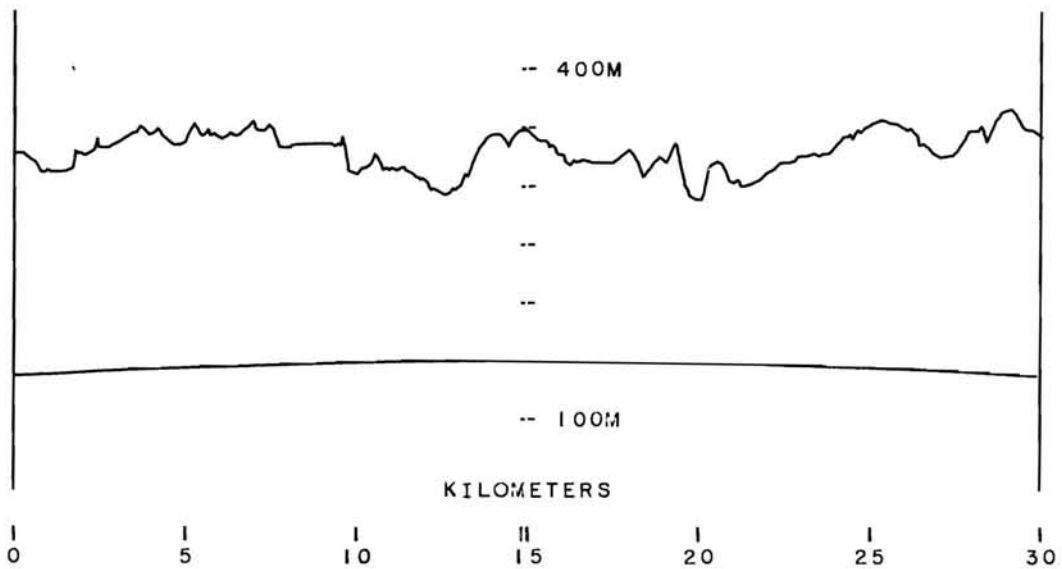
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

20MHZ
3.68

50MHZ
4.24

100MHZ
3.96



OHIO HILLS R= 30KM SITE 34

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-28-64

30FT LINES AHEAD, TREE 100FT AHEAD, 28FT PINES 300FT AHEAD, BUILDINGS
AND SCATTERED TREES BEYOND. ROAD AND PHONE LINE ON LEFT.

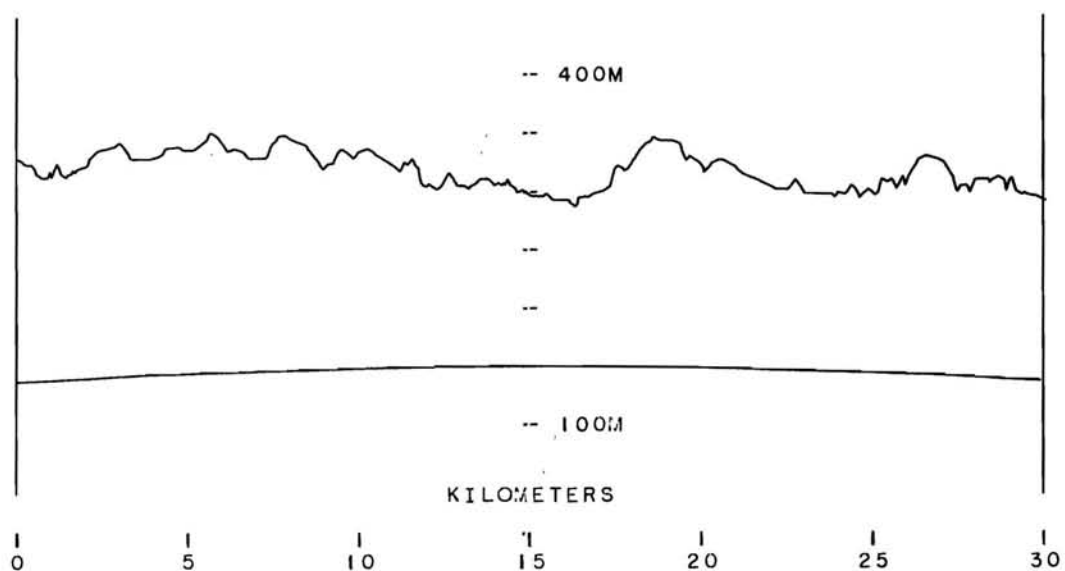
| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 25.0 | -131.4 | | -11.2 | | 0.0 | 145.2 | 57.2 |
| (HLLS, 30, 20,V,V,AV,1) | 25.0 | -131.3 | | -11.2 | | 0.0 | 145.1 | 57.1 |
| (HLLS, 30, 20,V,V,AH,1) | 25.0 | -131.4 | | -11.2 | | 0.0 | 145.2 | 57.2 |
| (HLLS, 30, 50,V,V, P,1) | 18.5 | -135.4 | | -9.8 | | 0.8 | 143.3 | 47.3 |
| (HLLS, 30, 50,V,V, P,2) | 18.5 | -132.9 | | -5.2 | | 0.9 | 145.3 | 49.3 |
| (HLLS, 30, 50,V,V,AV,1) | 18.5 | -138.9 | | -9.8 | | 0.8 | 146.8 | 50.8 |
| (HLLS, 30, 50,V,V,AV,2) | 18.5 | -130.6 | | -5.2 | | 0.9 | 143.0 | 47.0 |
| (HLLS, 30, 50,V,V,AH,1) | 18.5 | -135.4 | | -9.8 | | 0.8 | 143.3 | 47.3 |
| (HLLS, 30, 50,V,V,AH,2) | 18.5 | -132.9 | | -5.2 | | 0.9 | 145.3 | 49.3 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -132.4 | 7.6 | -7.2 | 1.4 | 2.7 | 148.7 | 46.7 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -128.4 | 7.6 | -2.0 | 1.4 | 2.7 | 149.9 | 47.9 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -125.2 | 7.6 | -5.0 | 1.4 | 2.7 | 143.7 | 41.7 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -129.4 | 7.6 | -7.2 | 1.4 | 2.7 | 145.7 | 43.7 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.9 | 7.6 | -2.0 | 1.4 | 2.7 | 146.4 | 44.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -123.0 | 7.6 | -5.0 | 1.4 | 2.7 | 141.5 | 39.5 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -132.4 | 7.6 | -7.2 | 1.4 | 2.7 | 148.7 | 46.7 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -128.4 | 7.6 | -2.0 | 1.4 | 2.7 | 149.9 | 47.9 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -125.2 | 7.6 | -5.0 | 1.4 | 2.7 | 143.7 | 41.7 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -145.0 | 9.4 | -2.7 | 1.3 | 2.7 | 167.7 | 65.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -141.5 | 9.4 | -5.8 | 1.3 | 2.7 | 161.1 | 59.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -134.7 | 9.4 | -4.9 | 1.3 | 2.7 | 155.2 | 53.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -145.0 | 9.4 | -2.7 | 1.3 | 2.7 | 167.7 | 65.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -135.4 | 9.4 | -5.8 | 1.3 | 2.7 | 155.0 | 53.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -135.4 | 9.4 | -4.9 | 1.3 | 2.7 | 155.9 | 53.9 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -145.0 | 9.4 | -2.7 | 1.3 | 2.7 | 167.7 | 65.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -141.5 | 9.4 | -5.8 | 1.3 | 2.7 | 161.1 | 59.1 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -134.7 | 9.4 | -4.9 | 1.3 | 2.7 | 155.2 | 53.2 |

OHIO HILLS B= 30KM SITE 35

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 35

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-30-64

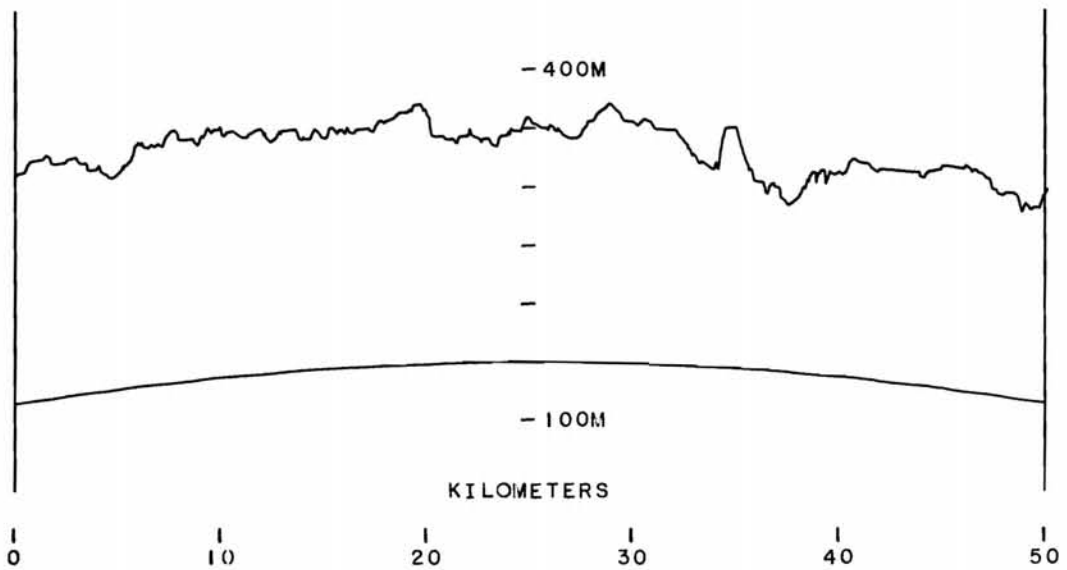
40FT TREES 40FT AHEAD AND LEFT, BUILDINGS 100FT AHEAD LEFT, SCATTERED TREES 1/4MI AHEAD. SCATTERED TREES ALSO TO FRONT RIGHT, ROAD AND 40 FT ELECTRIC LINES TO LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 27.5 | -124.8 | | -5.4 | | 0.0 | 146.9 | 58.9 |
| (HLLS, 30, 20,V,V,AV,1) | 27.5 | -122.8 | | -5.4 | | 0.0 | 144.9 | 56.9 |
| (HLLS, 30, 20,V,V,AH,1) | 27.5 | -125.2 | | -5.4 | | 0.0 | 147.3 | 59.3 |
| (HLLS, 30, 50,V,V, P,1) | 8.6 | -130.2 | | -6.8 | | 0.8 | 131.2 | 35.2 |
| (HLLS, 30, 50,V,V, P,2) | 8.6 | -134.0 | | -6.2 | | 0.9 | 135.5 | 39.5 |
| (HLLS, 30, 50,V,V,AV,1) | 8.6 | -127.5 | | -6.8 | | 0.8 | 128.5 | 32.5 |
| (HLLS, 30, 50,V,V,AV,2) | 8.6 | -135.4 | | -6.2 | | 0.9 | 136.9 | 40.9 |
| (HLLS, 30, 50,V,V,AH,1) | 8.6 | -128.1 | | -6.8 | | 0.8 | 129.1 | 33.1 |
| (HLLS, 30, 50,V,V,AH,2) | 8.6 | -128.7 | | -6.2 | | 0.9 | 130.2 | 34.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -7.0 | 1.4 | 2.7 | 153.5 | 51.5 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.2 | 7.6 | -3.7 | 1.4 | 2.7 | 147.0 | 45.0 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -121.2 | 7.6 | -5.7 | 1.4 | 2.7 | 139.0 | 37.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -123.7 | 7.6 | -7.0 | 1.4 | 2.7 | 140.2 | 38.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.5 | 7.6 | -3.7 | 1.4 | 2.7 | 144.3 | 42.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -118.9 | 7.6 | -5.7 | 1.4 | 2.7 | 136.7 | 34.7 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -129.0 | 7.6 | -7.0 | 1.4 | 2.7 | 145.5 | 43.5 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -122.8 | 7.6 | -3.7 | 1.4 | 2.7 | 142.6 | 40.6 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -120.2 | 7.6 | -5.7 | 1.4 | 2.7 | 138.0 | 36.0 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -7.9 | 1.3 | 2.7 | 156.4 | 54.4 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -127.6 | 9.4 | -6.3 | 1.3 | 2.7 | 146.7 | 44.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -124.8 | 9.4 | -6.6 | 1.3 | 2.7 | 143.6 | 41.6 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -129.4 | 9.4 | -7.9 | 1.3 | 2.7 | 146.9 | 44.9 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -130.2 | 9.4 | -6.3 | 1.3 | 2.7 | 149.3 | 47.3 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -127.5 | 9.4 | -6.6 | 1.3 | 2.7 | 146.3 | 44.3 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -128.4 | 9.4 | -7.9 | 1.3 | 2.7 | 145.9 | 43.9 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -123.7 | 9.4 | -6.3 | 1.3 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.7 | 9.4 | -6.6 | 1.3 | 2.7 | 142.5 | 40.5 |

OHIO HILLS B= 50KM SITE 31
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 31

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-28-64

62FT WIRES 35FT HAEAD, LARGE TREE 50FT AHEAD, 25FT TREES 1MI DEEP
AHEAD. ROAD TO RIGHT, BUILDINGS 100FT TO LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 20.7 | ** | | -6.7 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.7 | ** | | -7.8 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 20.7 | ** | | -6.7 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 20.7 | ** | | -7.8 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 20.7 | ** | | -6.7 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 20.7 | ** | | -7.8 | 0.9 | | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -145.0 | 7.6 | -4.8 | 1.4 | 2.7 | 163.7 | 57.3 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -143.0 | 7.6 | -2.4 | 1.4 | 2.7 | 164.1 | 57.7 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -141.5 | 7.6 | -2.2 | 1.4 | 2.7 | 162.8 | 56.4 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -145.0 | 7.6 | -4.8 | 1.4 | 2.7 | 163.7 | 57.3 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -143.0 | 7.6 | -2.4 | 1.4 | 2.7 | 164.1 | 57.7 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -141.5 | 7.6 | -2.2 | 1.4 | 2.7 | 162.8 | 56.4 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -145.0 | 7.6 | -4.8 | 1.4 | 2.7 | 163.7 | 57.3 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -143.0 | 7.6 | -2.4 | 1.4 | 2.7 | 164.1 | 57.7 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -141.5 | 7.6 | -2.2 | 1.4 | 2.7 | 162.8 | 56.4 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -145.0 | 9.4 | -2.9 | 1.3 | 2.7 | 167.5 | 61.1 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -144.0 | 9.4 | -4.1 | 1.3 | 2.7 | 165.3 | 58.9 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -141.0 | 9.4 | -4.6 | 1.3 | 2.7 | 161.8 | 55.4 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -145.0 | 9.4 | -2.9 | 1.3 | 2.7 | 167.5 | 61.1 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -144.0 | 9.4 | -4.1 | 1.3 | 2.7 | 165.3 | 58.9 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -141.0 | 9.4 | -4.6 | 1.3 | 2.7 | 161.8 | 55.4 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -145.0 | 9.4 | -2.9 | 1.3 | 2.7 | 167.5 | 61.1 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -144.0 | 9.4 | -4.1 | 1.3 | 2.7 | 165.3 | 58.9 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -141.0 | 9.4 | -4.6 | 1.3 | 2.7 | 161.8 | 55.4 |

* NO MEASUREMENT ATTEMPTED

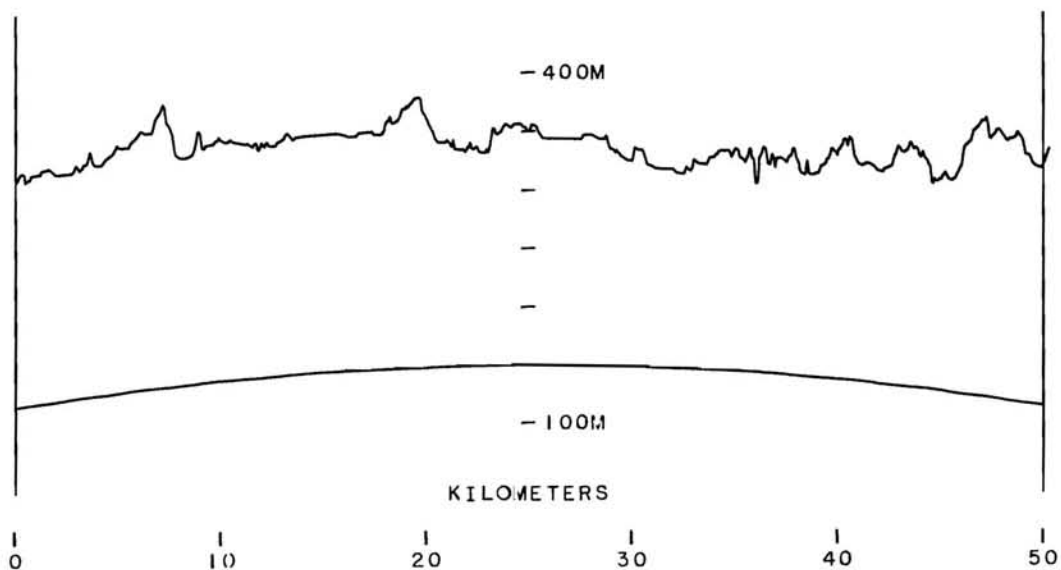
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 32

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 32

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-31-64

VALLEY AHEAD, HILL WITH TREE-COVER 300FT AHEAD, 500FT DEEP, RAILROAD
IN VALLEY BOTTOM, SCATTERED SOFT TREES ON NEXT HILL AHEAD. 4FT BANK
AND FENCE LEFT OF ROAD, RISING HILL ON LEFT, BUILDINGS AND 30FT TREES
ON RIGHT.

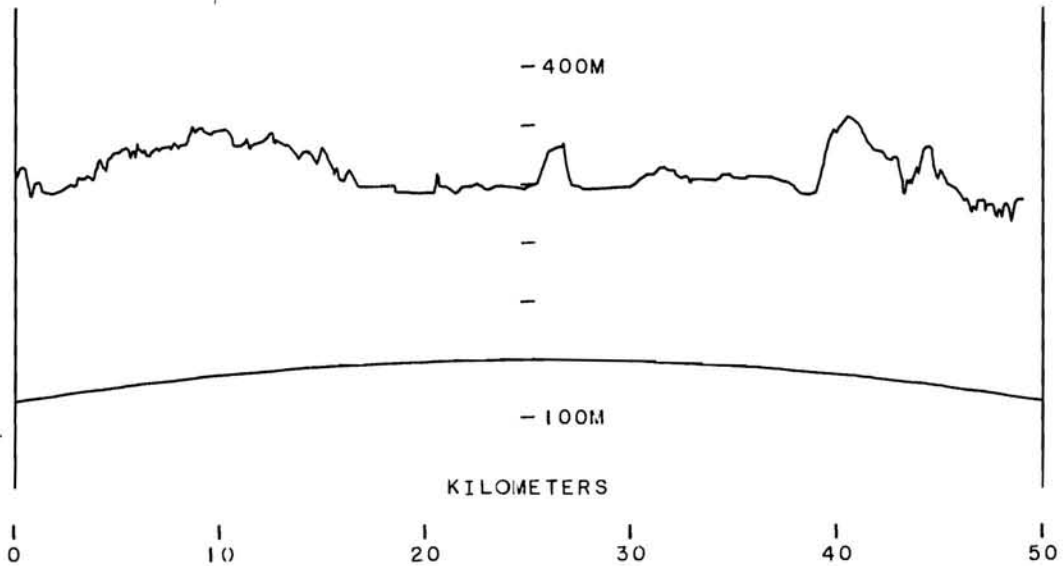
| (T,B,F,P(T),P(R),L,H) | w(T) | w(R) | G(I) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.0 | -151.0 | | -12.6 | | 0.0 | 160.4 | 68.0 |
| (HLLS, 50, 20,V,V,AV,1) | 22.0 | -151.0 | | -12.6 | | 0.0 | 160.4 | 68.0 |
| (HLLS, 50, 20,V,V,AH,1) | 22.0 | -147.5 | | -12.6 | | 0.0 | 156.9 | 64.5 |
| (HLLS, 50, 50,V,V, P,1) | 19.6 | -130.6 | | -9.4 | | 0.8 | 140.0 | 39.6 |
| (HLLS, 50, 50,V,V, P,2) | 19.6 | -130.2 | | -5.5 | | 0.9 | 143.4 | 43.0 |
| (HLLS, 50, 50,V,V,AV,1) | 19.6 | -143.0 | | -9.4 | | 0.8 | 152.4 | 52.0 |
| (HLLS, 50, 50,V,V,AV,2) | 19.6 | -140.1 | | -5.5 | | 0.9 | 153.3 | 52.9 |
| (HLLS, 50, 50,V,V,AH,1) | 19.6 | ** | | -9.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 19.6 | -137.0 | | -5.5 | | 0.9 | 150.2 | 49.8 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -143.0 | 7.6 | -11.6 | 1.4 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -143.0 | 7.6 | -5.2 | 1.4 | 2.7 | 161.3 | 54.9 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -137.9 | 7.6 | -7.2 | 1.4 | 2.7 | 154.2 | 47.8 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -136.2 | 7.6 | -11.6 | 1.4 | 2.7 | 148.1 | 41.7 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -136.2 | 7.6 | -5.2 | 1.4 | 2.7 | 154.5 | 48.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -134.0 | 7.6 | -7.2 | 1.4 | 2.7 | 150.3 | 43.9 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -137.9 | 7.6 | -11.6 | 1.4 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -137.0 | 7.6 | -5.2 | 1.4 | 2.7 | 155.3 | 48.9 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -134.7 | 7.6 | -7.2 | 1.4 | 2.7 | 151.0 | 44.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -143.0 | 9.4 | -5.6 | 1.3 | 2.7 | 162.8 | 56.4 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -141.5 | 9.4 | -4.6 | 1.3 | 2.7 | 162.3 | 55.9 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -137.9 | 9.4 | -5.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | -5.6 | 1.3 | 2.7 | 159.9 | 53.5 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -137.9 | 9.4 | -4.6 | 1.3 | 2.7 | 158.7 | 52.3 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -137.9 | 9.4 | -5.2 | 1.3 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -137.9 | 9.4 | -5.6 | 1.3 | 2.7 | 157.7 | 51.3 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -137.9 | 9.4 | -4.6 | 1.3 | 2.7 | 158.7 | 52.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -137.0 | 9.4 | -5.2 | 1.3 | 2.7 | 157.2 | 50.8 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 33
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 33

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-21-64

HOUSE AND FIELD AHEAD, 100FT TREES .2MI AHEAD, 1MI DEEP. PHONE AND
ELECTRIC LINES ON RIGHT AND LEFT.

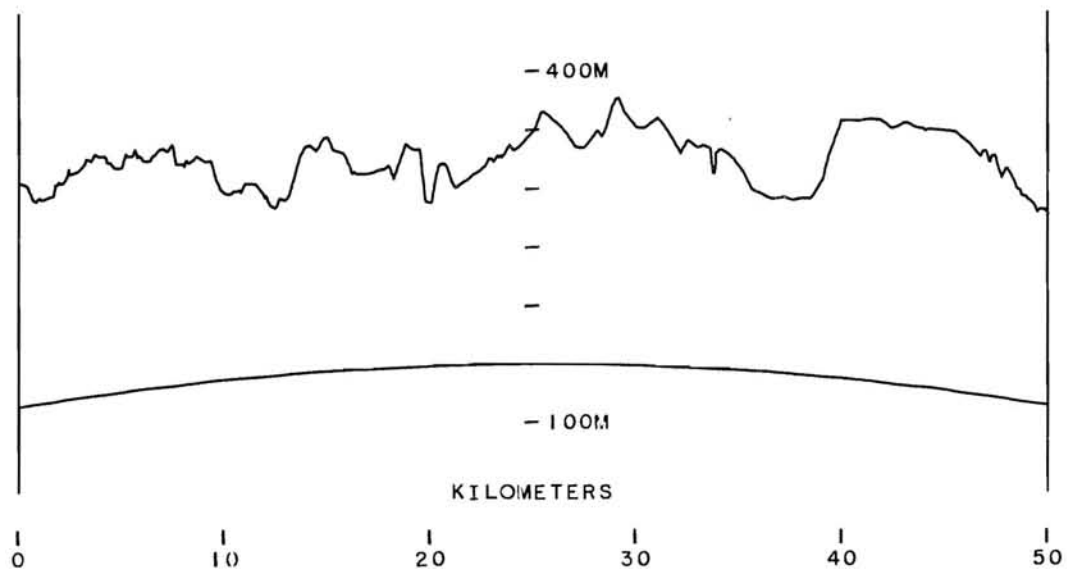
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 26.7 | -125.9 | | -5.6 | | 0.0 | 147.0 | 54.6 |
| (HLLS, 50, 20,V,V,AV,1) | 26.7 | -125.9 | | -5.6 | | 0.0 | 147.0 | 54.6 |
| (HLLS, 50, 20,V,V,AH,1) | 26.7 | -130.6 | | -5.6 | | 0.0 | 151.7 | 59.3 |
| (HLLS, 50, 50,V,V, P,1) | 16.9 | -140.1 | | -8.7 | | 0.8 | 147.5 | 47.1 |
| (HLLS, 50, 50,V,V, P,2) | 16.9 | -138.9 | | -5.2 | | 0.9 | 149.7 | 49.3 |
| (HLLS, 50, 50,V,V,AV,1) | 16.9 | -140.1 | | -8.7 | | 0.8 | 147.5 | 47.1 |
| (HLLS, 50, 50,V,V,AV,2) | 16.9 | -138.9 | | -5.2 | | 0.9 | 149.7 | 49.3 |
| (HLLS, 50, 50,V,V,AH,1) | 16.9 | -138.9 | | -8.7 | | 0.8 | 146.3 | 45.9 |
| (HLLS, 50, 50,V,V,AH,2) | 16.9 | -138.9 | | -5.2 | | 0.9 | 149.7 | 49.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -4.3 | 1.4 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -140.1 | 7.6 | -2.4 | 1.4 | 2.7 | 161.2 | 54.8 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -140.1 | 7.6 | -6.5 | 1.4 | 2.7 | 157.1 | 50.7 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -138.9 | 7.6 | -4.3 | 1.4 | 2.7 | 158.1 | 51.7 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -140.1 | 7.6 | -2.4 | 1.4 | 2.7 | 161.2 | 54.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -140.1 | 7.6 | -6.5 | 1.4 | 2.7 | 157.1 | 50.7 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -140.1 | 7.6 | -4.3 | 1.4 | 2.7 | 159.3 | 52.9 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -137.9 | 7.6 | -2.4 | 1.4 | 2.7 | 159.0 | 52.6 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -137.9 | 7.6 | -6.5 | 1.4 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -140.1 | 9.4 | 0.0 | 1.3 | 2.7 | 165.5 | 59.1 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -140.1 | 9.4 | -6.4 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -140.1 | 9.4 | -6.7 | 1.3 | 2.7 | 158.8 | 52.4 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | 0.0 | 1.3 | 2.7 | 165.5 | 59.1 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -140.1 | 9.4 | -6.4 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -140.1 | 9.4 | -6.7 | 1.3 | 2.7 | 158.8 | 52.4 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -137.9 | 9.4 | 0.0 | 1.3 | 2.7 | 163.3 | 56.9 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -137.9 | 9.4 | -6.4 | 1.3 | 2.7 | 156.9 | 50.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -137.9 | 9.4 | -6.7 | 1.3 | 2.7 | 156.6 | 50.2 |

OHIO HILLS B= 50KM SITE 34

TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 34

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-21-64

ROW OF 60FT TREES .2MI AHEAD. SCATTERED TREES BEYOND RAILROAD ON FAR RIGHT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 24.2 | ** | | -12.5 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 18.5 | -140.1 | | -9.7 | | 0.8 | 148.1 | 47.7 |
| (HLLS, 50, 50,V,V, P,2) | 18.5 | -138.9 | | -5.5 | | 0.9 | 151.0 | 50.6 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -22.1 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -140.1 | 7.6 | -6.0 | 1.4 | 2.7 | 157.6 | 51.2 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.2 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -140.1 | 9.4 | -4.3 | 1.3 | 2.7 | 161.2 | 54.8 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -5.2 | 1.3 | 2.7 | 159.1 | 52.7 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

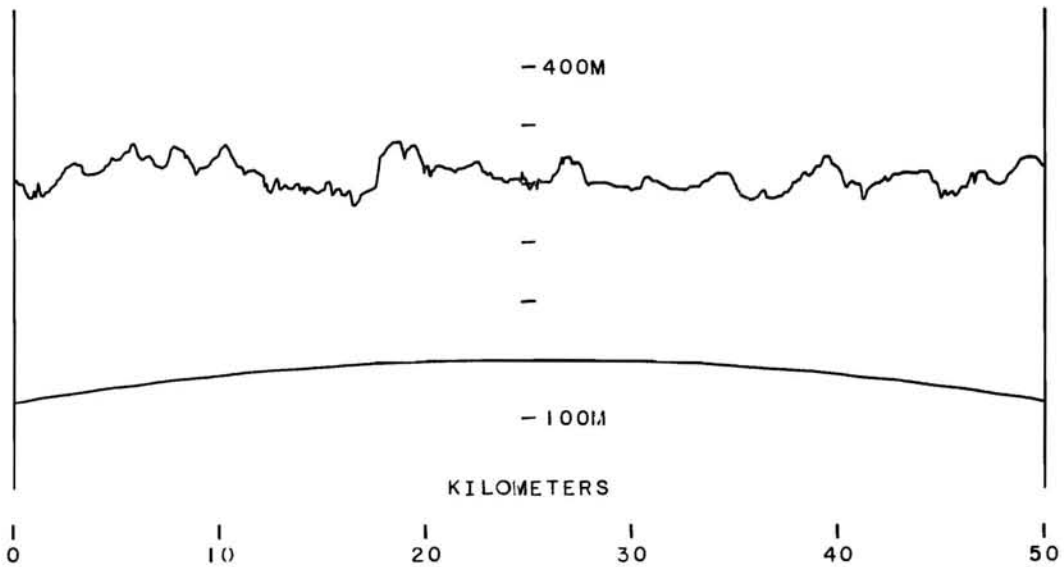
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 35
TRANSMITTER 3

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 35

TRANSMITTER 3

DATE AND COMMENTS OF OPERATOR

01-30-64

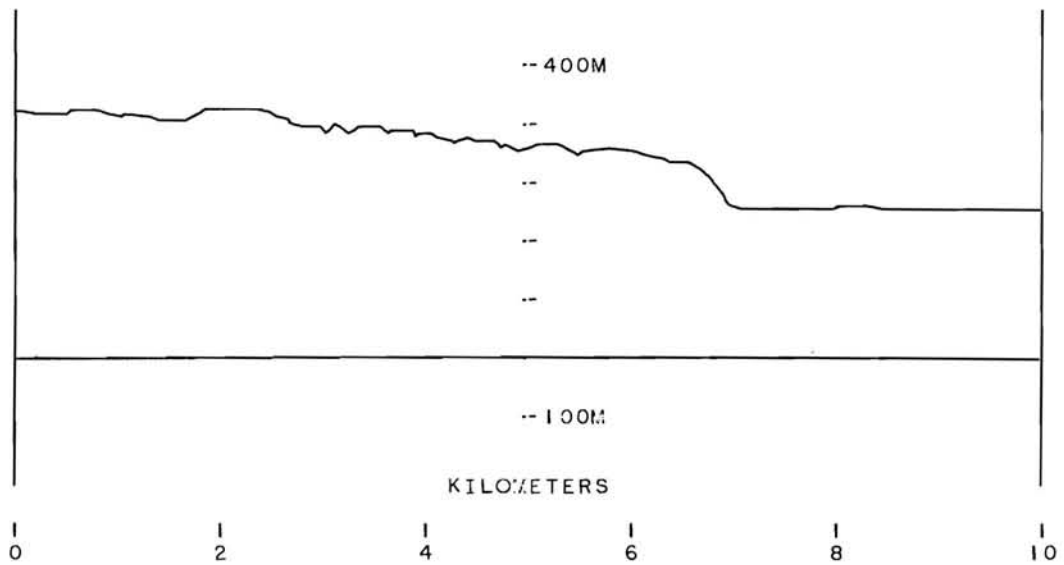
15FT PHONE LINES OVERHEAD TO FRONT, DENSE 45FT WOODS .2MI AHEAD AND
.3MI DEEP. CLEAR TO FAR RIGHT, ROAD AND LINES TO LEFT. 40FT ELEC-
TRIC LINES LEFT AND REAR OVERHEAD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 27.5 | -128.7 | | -5.5 | | 0.0 | 150.7 | 58.3 |
| (HLLS, 50, 20,V,V,AV,1) | 27.5 | -128.7 | | -5.5 | | 0.0 | 150.7 | 58.3 |
| (HLLS, 50, 20,V,V,AH,1) | 27.5 | -129.4 | | -5.5 | | 0.0 | 151.4 | 59.0 |
| (HLLS, 50, 50,V,V, P,1) | 8.6 | -130.6 | | -6.5 | | 0.8 | 131.9 | 31.5 |
| (HLLS, 50, 50,V,V, P,2) | 8.6 | -132.9 | | -6.0 | | 0.9 | 134.6 | 34.2 |
| (HLLS, 50, 50,V,V,AV,1) | 8.6 | -130.2 | | -6.5 | | 0.8 | 131.5 | 31.1 |
| (HLLS, 50, 50,V,V,AV,2) | 8.6 | -129.8 | | -6.0 | | 0.9 | 131.5 | 31.1 |
| (HLLS, 50, 50,V,V,AH,1) | 8.6 | -131.0 | | -6.5 | | 0.8 | 132.3 | 31.9 |
| (HLLS, 50, 50,V,V,AH,2) | 8.6 | -131.0 | | -6.0 | | 0.9 | 132.7 | 32.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -137.0 | 7.6 | -8.0 | 1.4 | 2.7 | 152.5 | 46.1 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -126.4 | 7.6 | -4.0 | 1.4 | 2.7 | 145.9 | 39.5 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -123.9 | 7.6 | -5.6 | 1.4 | 2.7 | 141.8 | 35.4 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -132.9 | 7.6 | -8.0 | 1.4 | 2.7 | 148.4 | 42.0 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -126.4 | 7.6 | -4.0 | 1.4 | 2.7 | 145.9 | 39.5 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -124.8 | 7.6 | -5.6 | 1.4 | 2.7 | 142.7 | 36.3 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -134.2 | 7.6 | -8.0 | 1.4 | 2.7 | 149.7 | 43.3 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -126.4 | 7.6 | -4.0 | 1.4 | 2.7 | 145.9 | 39.5 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -125.6 | 7.6 | -5.6 | 1.4 | 2.7 | 143.5 | 37.1 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -136.2 | 9.4 | -8.9 | 1.3 | 2.7 | 152.7 | 46.3 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -130.6 | 9.4 | -6.3 | 1.3 | 2.7 | 149.7 | 43.3 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -126.4 | 9.4 | -6.3 | 1.3 | 2.7 | 145.5 | 39.1 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -8.9 | 1.3 | 2.7 | 151.9 | 45.5 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -129.0 | 9.4 | -6.3 | 1.3 | 2.7 | 148.1 | 41.7 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -125.4 | 9.4 | -6.3 | 1.3 | 2.7 | 144.5 | 38.1 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -133.5 | 9.4 | -8.9 | 1.3 | 2.7 | 150.0 | 43.6 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -127.5 | 9.4 | -6.3 | 1.3 | 2.7 | 146.6 | 40.2 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -126.4 | 9.4 | -6.3 | 1.3 | 2.7 | 145.5 | 39.1 |

OHIO HILLS B= 10KM SITE 41
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 41

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-05-64

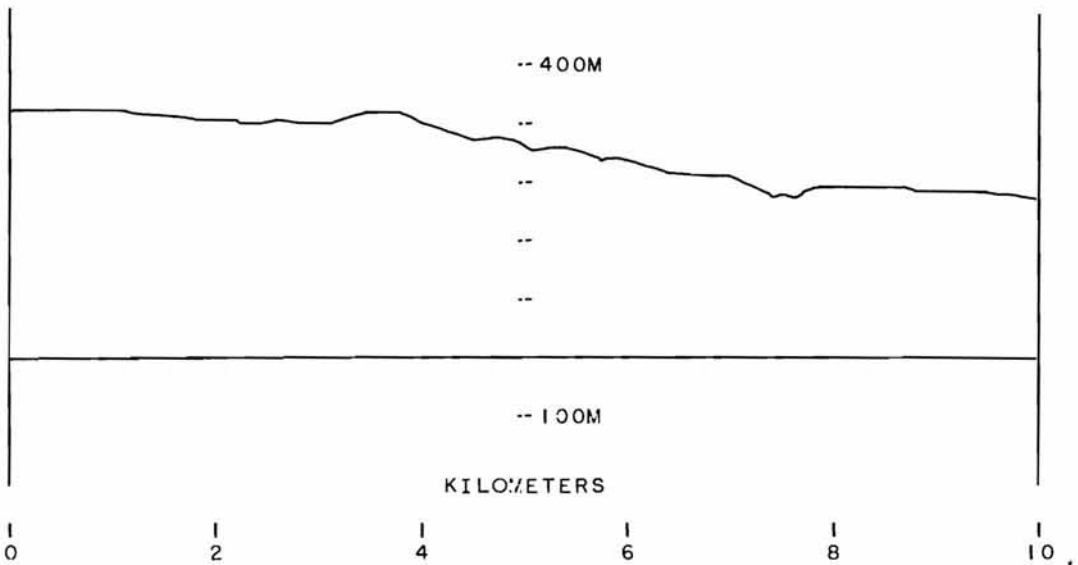
2 LARGE TREES, PHONE POLE, AND BRUSH 30FT AHEAD, 15FT PHONE LINES TO FRONT. HOUSE WITH 30 TO 50FT SCATTERED TREES AT 300FT AHEAD, DENSE WOODS STARTING AT 800FT. BUILDING, BRUSH, AND SCATTERED TREES LEFT, ROAD AND PHONE LINES RIGHT, 30FT ELECTRIC LINES BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 27.5 | -105.9 | | -5.0 | | 0.0 | 128.4 | 49.9 |
| (HLLS, 10, 20,V,V,AV,1) | 27.5 | -103.4 | | -5.0 | | 0.0 | 125.9 | 47.4 |
| (HLLS, 10, 20,V,V,AH,1) | 27.5 | -105.2 | | -5.0 | | 0.0 | 127.7 | 49.3 |
| (HLLS, 10, 50,V,V, P,1) | 17.2 | -120.1 | | -3.5 | | 0.8 | 133.0 | 46.6 |
| (HLLS, 10, 50,V,V, P,2) | 17.2 | -117.1 | | -8.8 | | 0.9 | 124.6 | 38.2 |
| (HLLS, 10, 50,V,V,AV,1) | 17.2 | -118.9 | | -3.5 | | 0.8 | 131.8 | 45.3 |
| (HLLS, 10, 50,V,V,AV,2) | 17.2 | -120.1 | | -8.8 | | 0.9 | 127.6 | 41.2 |
| (HLLS, 10, 50,V,V,AH,1) | 17.2 | -118.8 | | -3.5 | | 0.8 | 131.7 | 45.3 |
| (HLLS, 10, 50,V,V,AH,2) | 17.2 | -116.8 | | -8.8 | | 0.9 | 124.3 | 37.9 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -117.9 | 7.6 | -6.4 | 1.4 | 2.7 | 135.0 | 42.6 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -110.6 | 7.6 | -3.1 | 1.4 | 2.7 | 131.0 | 38.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -106.1 | 7.6 | -3.0 | 1.4 | 2.7 | 126.6 | 34.2 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -109.4 | 7.6 | -6.4 | 1.4 | 2.7 | 126.5 | 34.0 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -107.2 | 7.6 | -3.1 | 1.4 | 2.7 | 127.6 | 35.1 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -105.6 | 7.6 | -3.0 | 1.4 | 2.7 | 126.1 | 33.7 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -114.0 | 7.6 | -6.4 | 1.4 | 2.7 | 131.1 | 38.7 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -109.4 | 7.6 | -3.1 | 1.4 | 2.7 | 129.8 | 37.3 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -107.2 | 7.6 | -3.0 | 1.4 | 2.7 | 127.7 | 35.2 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -117.0 | 9.4 | -6.3 | 1.3 | 2.7 | 136.1 | 43.7 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -111.9 | 9.4 | -3.1 | 1.3 | 2.7 | 134.2 | 41.8 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -106.4 | 9.4 | -3.6 | 1.3 | 2.7 | 128.2 | 35.8 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -113.5 | 9.4 | -6.3 | 1.3 | 2.7 | 132.6 | 40.2 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -111.0 | 9.4 | -3.1 | 1.3 | 2.7 | 133.3 | 40.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -105.6 | 9.4 | -3.6 | 1.3 | 2.7 | 127.4 | 35.0 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -111.0 | 9.4 | -6.3 | 1.3 | 2.7 | 130.1 | 37.7 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -109.0 | 9.4 | -3.1 | 1.3 | 2.7 | 131.3 | 38.9 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -104.3 | 9.4 | -3.6 | 1.3 | 2.7 | 126.1 | 33.7 |

OHIO HILLS B= 10KM SITE 42
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 10KM SITE 42

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-05-64

ROAD FOR 300FT AHEAD. LINES, HILL AND RAILROAD BEYOND. HILL WITH
SCATTERED 30 TO 50FT TREES .3MI AHEAD; ALSO ON RIGHT, TREES AND
BRUSH BEYOND HILL TO .5MI, TREES AND BRUSH ALSO ON LEFT.

| (T,R,F,P(T),P(R),L,H) | V(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 27.9 | -115.4 | | -13.0 | | 0.0 | 130.3 | 51.8 |
| (HLLS, 10, 20,V,V,AV,1) | 27.9 | -115.4 | | -13.0 | | 0.0 | 130.3 | 51.8 |
| (HLLS, 10, 20,V,V,AH,1) | 27.9 | -118.9 | | -13.0 | | 0.0 | 133.8 | 55.3 |
| (HLLS, 10, 50,V,V, P,1) | 13.5 | -118.1 | | -7.4 | | 0.8 | 123.4 | 37.0 |
| (HLLS, 10, 50,V,V, P,2) | 13.5 | -117.4 | | -5.5 | | 0.9 | 124.5 | 38.0 |
| (HLLS, 10, 50,V,V,AV,1) | 13.5 | -113.5 | | -7.4 | | 0.8 | 118.8 | 32.4 |
| (HLLS, 10, 50,V,V,AV,2) | 13.5 | -109.0 | | -5.5 | | 0.9 | 116.1 | 29.7 |
| (HLLS, 10, 50,V,V,AH,1) | 13.5 | -118.7 | | -7.4 | | 0.8 | 124.0 | 37.6 |
| (HLLS, 10, 50,V,V,AH,2) | 13.5 | -107.7 | | -5.5 | | 0.9 | 114.8 | 28.3 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -105.9 | 7.6 | -10.5 | 1.4 | 2.7 | 118.9 | 26.4 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -101.3 | 7.6 | -4.6 | 1.4 | 2.7 | 120.2 | 27.8 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -98.9 | 7.6 | -7.1 | 1.4 | 2.7 | 115.3 | 22.8 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -95.4 | 7.6 | -10.5 | 1.4 | 2.7 | 108.4 | 15.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -95.4 | 7.6 | -4.6 | 1.4 | 2.7 | 114.3 | 21.8 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -97.9 | 7.6 | -7.1 | 1.4 | 2.7 | 114.3 | 21.8 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -104.9 | 7.6 | -10.5 | 1.4 | 2.7 | 117.9 | 25.4 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -100.1 | 7.6 | -4.6 | 1.4 | 2.7 | 119.0 | 26.6 |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -106.4 | 9.4 | -5.4 | 1.3 | 2.7 | 126.4 | 33.9 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -100.1 | 9.4 | -4.8 | 1.3 | 2.7 | 120.7 | 28.3 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -97.0 | 9.4 | -5.2 | 1.3 | 2.7 | 117.2 | 24.8 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -100.1 | 9.4 | -5.4 | 1.3 | 2.7 | 120.1 | 27.7 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -97.2 | 9.4 | -4.8 | 1.3 | 2.7 | 117.8 | 25.3 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -101.4 | 9.4 | -5.2 | 1.3 | 2.7 | 121.6 | 29.1 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -97.7 | 9.4 | -5.4 | 1.3 | 2.7 | 117.7 | 25.2 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -94.0 | 9.4 | -4.8 | 1.3 | 2.7 | 114.6 | 22.2 |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

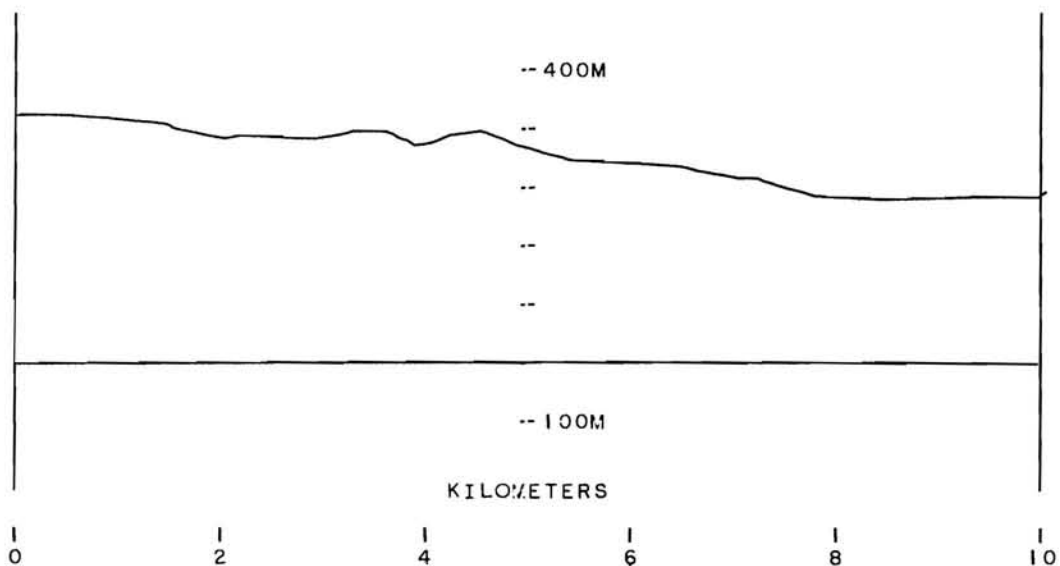
* NO MEASUREMENT ATTEMPTED

OHIO HILLS B = 10KM SITE 43

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 43
 TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-04-64

50FT TREE IN VALLEY 200FT AHEAD. RAILROAD TRACK AT 700FT WITH DENSE
 50FT WOODS BEYOND, FROM 50 TO 500FT DEEP. ROAD AND TREES AHEAD LEFT.

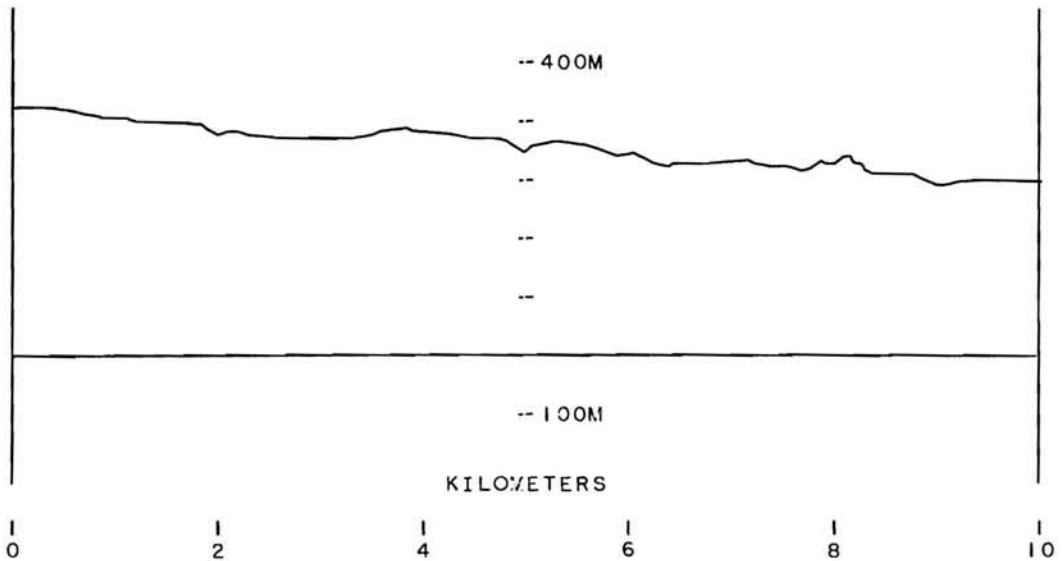
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 24.7 | -114.1 | | -11.5 | | 0.0 | 127.3 | 48.9 |
| (HLLS, 10, 20,V,V,AV,1) | 24.7 | -113.8 | | -11.5 | | 0.0 | 127.0 | 48.6 |
| (HLLS, 10, 20,V,V,AH,1) | 24.7 | -113.7 | | -11.5 | | 0.0 | 126.9 | 48.4 |
| | | | | | | | | |
| (HLLS, 10, 50,V,V, P,1) | 19.3 | -108.1 | | -8.5 | | 0.8 | 118.1 | 31.7 |
| (HLLS, 10, 50,V,V, P,2) | 19.3 | -115.1 | | -5.2 | | 0.9 | 128.3 | 41.9 |
| (HLLS, 10, 50,V,V,AV,1) | 19.3 | -114.1 | | -8.5 | | 0.8 | 124.1 | 37.7 |
| (HLLS, 10, 50,V,V,AV,2) | 19.3 | -107.5 | | -5.2 | | 0.9 | 120.7 | 34.3 |
| (HLLS, 10, 50,V,V,AH,1) | 19.3 | -114.7 | | -8.5 | | 0.8 | 124.7 | 38.3 |
| (HLLS, 10, 50,V,V,AH,2) | 19.3 | -109.8 | | -5.2 | | 0.9 | 123.0 | 36.6 |
| | | | | | | | | |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -110.5 | 7.6 | -7.4 | 1.4 | 2.7 | 126.6 | 34.2 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -103.7 | 7.6 | -2.0 | 1.4 | 2.7 | 125.2 | 32.7 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -98.9 | 7.6 | -5.1 | 1.4 | 2.7 | 117.3 | 24.8 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -107.2 | 7.6 | -7.4 | 1.4 | 2.7 | 123.3 | 30.8 |
| (HLLS, 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -107.5 | 7.6 | -7.4 | 1.4 | 2.7 | 123.6 | 31.2 |
| (HLLS, 10,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| | | | | | | | | |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -108.1 | 9.4 | -3.0 | 1.3 | 2.7 | 130.5 | 38.1 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -101.7 | 9.4 | -5.7 | 1.3 | 2.7 | 121.4 | 28.9 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -98.7 | 9.4 | -5.0 | 1.3 | 2.7 | 119.1 | 26.6 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -107.3 | 9.4 | -3.0 | 1.3 | 2.7 | 129.7 | 37.3 |
| (HLLS, 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -105.4 | 9.4 | -3.0 | 1.3 | 2.7 | 127.8 | 35.3 |
| (HLLS, 10,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 44
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 44

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-06-64

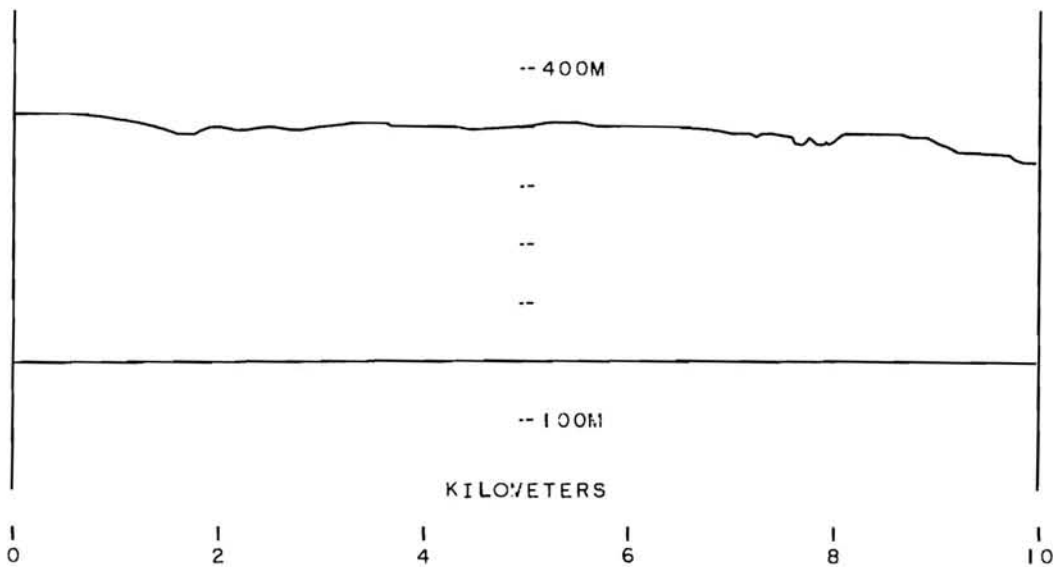
RAILROAD CROSSES ROAD 300FT AHEAD, 20FT PHONE LINES OVER RAILROAD.
40 TO 60FT TREES, BUILDINGS, AND WIRES BEYOND RAILROAD, SAME BETWEEN
ROAD AND RAILROAD. BUILDINGS, SMALL TREES AND 25FT WIRES TO RIGHT OF
ROAD, CLEAR FIELD BEYOND RAILROAD TO RIGHT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 22.3 | -114.2 | | -13.0 | | 0.0 | 123.5 | 45.1 |
| (HLLS, 10, 20,V,V,AV,1) | 22.3 | -117.4 | | -13.0 | | 0.0 | 126.7 | 48.3 |
| (HLLS, 10, 20,V,V,AH,1) | 22.3 | -116.0 | | -13.0 | | 0.0 | 125.3 | 46.9 |
| (HLLS, 10, 50,V,V, P,1) | 22.7 | -114.1 | | -7.4 | | 0.8 | 128.6 | 42.2 |
| (HLLS, 10, 50,V,V, P,2) | 22.7 | -112.3 | | -5.5 | | 0.9 | 128.6 | 42.2 |
| (HLLS, 10, 50,V,V,AV,1) | 22.7 | -113.4 | | -7.4 | | 0.8 | 127.9 | 41.4 |
| (HLLS, 10, 50,V,V,AV,2) | 22.7 | -108.0 | | -5.5 | | 0.9 | 124.3 | 37.9 |
| (HLLS, 10, 50,V,V,AH,1) | 22.7 | -116.2 | | -7.4 | | 0.8 | 130.7 | 44.3 |
| (HLLS, 10, 50,V,V,AH,2) | 22.7 | -107.5 | | -5.5 | | 0.9 | 123.8 | 37.4 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -114.1 | 7.6 | -10.2 | 1.4 | 2.7 | 127.4 | 35.0 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -108.7 | 7.6 | -4.4 | 1.4 | 2.7 | 127.8 | 35.3 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -105.2 | 7.6 | -7.1 | 1.4 | 2.7 | 121.6 | 29.1 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -113.2 | 7.6 | -10.2 | 1.4 | 2.7 | 126.5 | 34.0 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -108.7 | 7.6 | -4.4 | 1.4 | 2.7 | 127.8 | 35.3 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -106.9 | 7.6 | -7.1 | 1.4 | 2.7 | 123.3 | 30.8 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -115.4 | 7.6 | -10.2 | 1.4 | 2.7 | 128.7 | 36.3 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -109.0 | 7.6 | -4.4 | 1.4 | 2.7 | 128.1 | 35.7 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -106.4 | 7.6 | -7.1 | 1.4 | 2.7 | 122.8 | 30.3 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -112.9 | 9.4 | -5.4 | 1.3 | 2.7 | 132.9 | 40.4 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -106.4 | 9.4 | -4.9 | 1.3 | 2.7 | 126.9 | 34.4 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -101.6 | 9.4 | -5.2 | 1.3 | 2.7 | 121.8 | 29.4 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -107.5 | 9.4 | -5.4 | 1.3 | 2.7 | 127.5 | 35.0 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -104.9 | 9.4 | -4.9 | 1.3 | 2.7 | 125.4 | 32.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -102.9 | 9.4 | -5.2 | 1.3 | 2.7 | 123.1 | 30.6 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -101.6 | 9.4 | -5.4 | 1.3 | 2.7 | 121.6 | 29.2 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -107.6 | 9.4 | -4.9 | 1.3 | 2.7 | 128.1 | 35.7 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -106.4 | 9.4 | -5.2 | 1.3 | 2.7 | 126.6 | 34.1 |

OHIO HILLS B = 10KM SITE 45
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 45

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-10-64

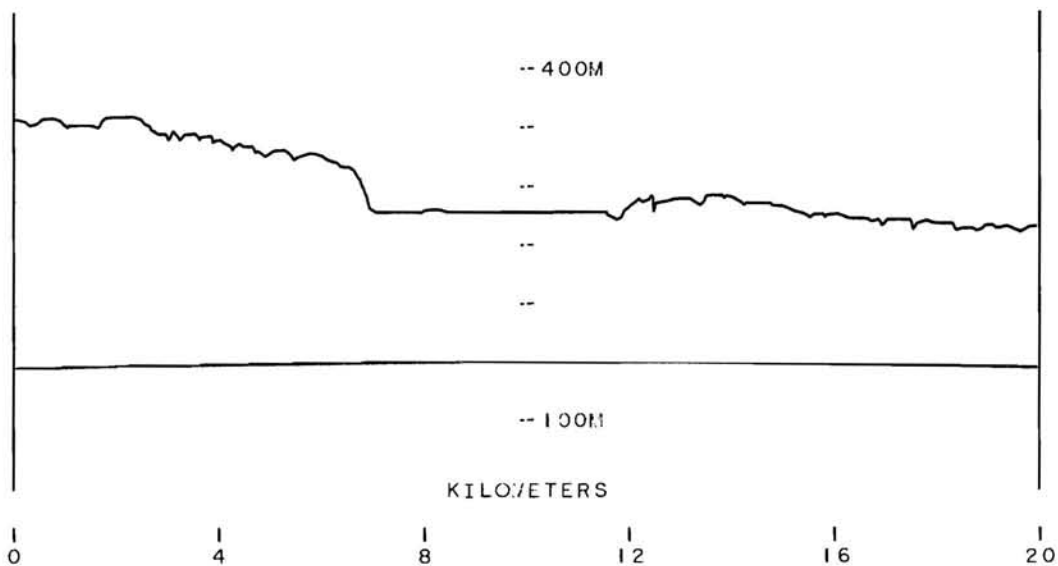
PHONE LINES AND CULVERT CROSS 100FT AHEAD, 15FT PHONE LINES AHEAD,
 RIGHT, AND LEFT, 35FT ELECTRIC LINES CROSS 300FT AHEAD, 10FT HILL 250
 FT AHEAD, HOUSE, BUILDINGS, AND SCATTERED TREES .2MI AHEAD, MORE
 TREES .5MI AHEAD TO HORIZON. BUILDINGS 250FT RIGHT, CLEAR TO LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 19.0 | -109.4 | | -13.0 | | 0.0 | 115.4 | 36.9 |
| (HLLS, 10, 20,V,V,AV,1) | 19.0 | -107.6 | | -13.0 | | 0.0 | 113.6 | 35.2 |
| (HLLS, 10, 20,V,V,AH,1) | 19.0 | -109.0 | | -13.0 | | 0.0 | 115.0 | 36.6 |
| (HLLS, 10, 50,V,V, P,1) | 20.0 | -122.5 | | -7.4 | | 0.8 | 134.3 | 47.9 |
| (HLLS, 10, 50,V,V, P,2) | 20.0 | -117.8 | | -5.5 | | 0.9 | 131.4 | 44.9 |
| (HLLS, 10, 50,V,V,AV,2) | 20.0 | -116.3 | | -5.5 | | 0.9 | 129.9 | 43.4 |
| (HLLS, 10, 50,V,V,AH,1) | 20.0 | -118.9 | | -7.4 | | 0.8 | 130.7 | 44.3 |
| (HLLS, 10, 50,V,V,AH,2) | 20.0 | -117.9 | | -5.5 | | 0.9 | 131.5 | 45.0 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -123.7 | 7.6 | -10.5 | 1.4 | 2.7 | 136.7 | 44.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -116.3 | 7.6 | -4.5 | 1.4 | 2.7 | 135.3 | 42.9 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -113.5 | 7.6 | -7.1 | 1.4 | 2.7 | 129.9 | 37.4 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -118.0 | 7.6 | -10.5 | 1.4 | 2.7 | 131.0 | 38.6 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -111.4 | 7.6 | -4.5 | 1.4 | 2.7 | 130.4 | 37.9 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -109.4 | 7.6 | -7.1 | 1.4 | 2.7 | 125.8 | 33.3 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -121.4 | 7.6 | -10.5 | 1.4 | 2.7 | 134.4 | 41.9 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -115.4 | 7.6 | -4.5 | 1.4 | 2.7 | 134.4 | 41.9 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -108.4 | 7.6 | -7.1 | 1.4 | 2.7 | 124.8 | 32.3 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -124.1 | 9.4 | -5.4 | 1.3 | 2.7 | 144.1 | 51.7 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -115.6 | 9.4 | -4.9 | 1.3 | 2.7 | 136.1 | 43.7 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -113.2 | 9.4 | -5.2 | 1.3 | 2.7 | 133.4 | 40.9 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -121.3 | 9.4 | -5.4 | 1.3 | 2.7 | 141.3 | 48.9 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -111.9 | 9.4 | -4.9 | 1.3 | 2.7 | 132.4 | 39.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -109.8 | 9.4 | -5.2 | 1.3 | 2.7 | 130.0 | 37.6 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -121.2 | 9.4 | -5.4 | 1.3 | 2.7 | 141.2 | 48.8 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -113.2 | 9.4 | -4.9 | 1.3 | 2.7 | 133.7 | 41.3 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -110.9 | 9.4 | -5.2 | 1.3 | 2.7 | 131.1 | 38.6 |

OHIO HILLS B= 20KM SITE 41
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 41

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-06-64

ROAD WITH 40 TO 60FT TREES ON BOTH SIDES FOR 3/4MI AHEAD, 40FT ELECTRIC LINES FOLLOW ROAD TO RIGHT, BARN AND SHED 300FT TO RIGHT, SCATTERED TREES ON RIGHT AND LEFT FOR 1MI, 40FT TREE 25FT LEFT, BARN 50FT BEYOND, OTHER BUILDINGS 150FT TO LEFT.

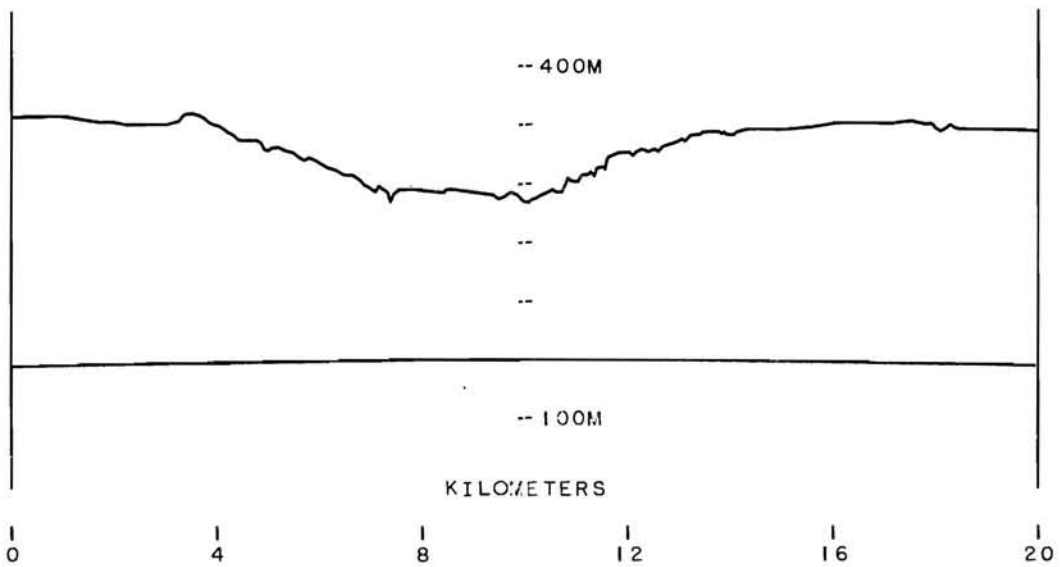
| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 27.5 | -119.0 | | -5.0 | | 0.0 | 141.5 | 57.0 |
| (HLLS, 20, 20,V,V,AV,1) | 27.5 | -114.6 | | -5.0 | | 0.0 | 137.1 | 52.6 |
| (HLLS, 20, 20,V,V,AH,1) | 27.5 | -114.6 | | -5.0 | | 0.0 | 137.1 | 52.6 |
| (HLLS, 20, 50,V,V, P,1) | 17.2 | -119.5 | | -3.5 | | 0.8 | 132.4 | 39.9 |
| (HLLS, 20, 50,V,V, P,2) | 17.2 | -124.1 | | -8.8 | | 0.9 | 131.6 | 39.1 |
| (HLLS, 20, 50,V,V,AV,1) | 17.2 | -120.1 | | -3.5 | | 0.8 | 133.0 | 40.5 |
| (HLLS, 20, 50,V,V,AV,2) | 17.2 | -123.9 | | -8.8 | | 0.9 | 131.4 | 38.9 |
| (HLLS, 20, 50,V,V,AH,1) | 17.2 | -120.1 | | -3.5 | | 0.8 | 133.0 | 40.5 |
| (HLLS, 20, 50,V,V,AH,2) | 17.2 | -123.9 | | -8.8 | | 0.9 | 131.4 | 38.9 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -127.6 | 7.6 | -6.4 | 1.4 | 2.7 | 144.7 | 46.2 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -123.9 | 7.6 | -3.1 | 1.4 | 2.7 | 144.3 | 45.8 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -120.4 | 7.6 | -3.0 | 1.4 | 2.7 | 140.9 | 42.4 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -126.9 | 7.6 | -6.4 | 1.4 | 2.7 | 144.0 | 45.5 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -120.7 | 7.6 | -3.1 | 1.4 | 2.7 | 141.1 | 42.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -118.8 | 7.6 | -3.0 | 1.4 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -126.9 | 7.6 | -6.4 | 1.4 | 2.7 | 144.0 | 45.5 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -120.7 | 7.6 | -3.1 | 1.4 | 2.7 | 141.1 | 42.6 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -118.8 | 7.6 | -3.0 | 1.4 | 2.7 | 139.3 | 40.8 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -121.3 | 9.4 | -6.3 | 1.3 | 2.7 | 140.4 | 41.9 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -115.8 | 9.4 | -3.1 | 1.3 | 2.7 | 138.1 | 39.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -110.9 | 9.4 | -3.6 | 1.3 | 2.7 | 132.7 | 34.2 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -117.9 | 9.4 | -6.3 | 1.3 | 2.7 | 137.0 | 38.5 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -114.4 | 9.4 | -3.1 | 1.3 | 2.7 | 136.7 | 38.2 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -112.9 | 9.4 | -3.6 | 1.3 | 2.7 | 134.7 | 36.2 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -117.9 | 9.4 | -6.3 | 1.3 | 2.7 | 137.0 | 38.5 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -114.4 | 9.4 | -3.1 | 1.3 | 2.7 | 136.7 | 38.2 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -112.9 | 9.4 | -3.6 | 1.3 | 2.7 | 134.7 | 36.2 |

OHIO HILLS B= 20KM SITE 42

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 42

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-05-64

ROAD AHEAD, 30FT TREES IN 300FT ROW AHEAD, DENSE WOODS .3MI AHEAD, 1
MI DEEP. DENSE WOODS .5MI DEEP EXTENDING TO .2MI IN FRONT.

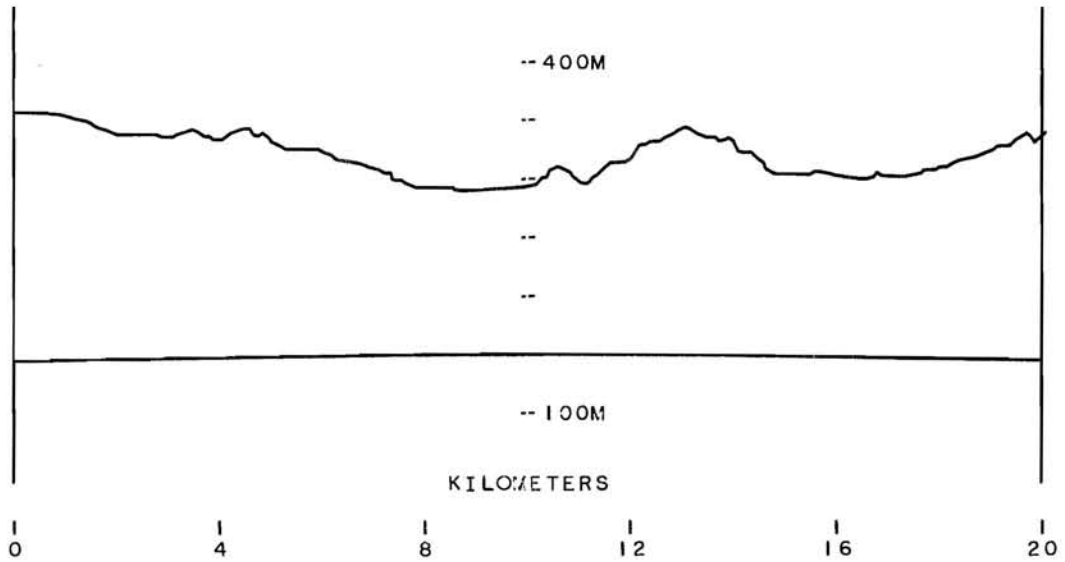
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 27.9 | -121.7 | | -12.9 | | 0.0 | 136.7 | 52.2 |
| (HLLS, 20, 20,V,V,AV,1) | 27.9 | -123.6 | | -12.9 | | 0.0 | 138.6 | 54.1 |
| (HLLS, 20, 20,V,V,AH,1) | 27.9 | -123.9 | | -12.9 | | 0.0 | 138.9 | 54.4 |
| (HLLS, 20, 50,V,V, P,1) | 13.5 | -126.9 | | -8.4 | | 0.8 | 131.2 | 38.7 |
| (HLLS, 20, 50,V,V, P,2) | 13.5 | -122.8 | | -5.5 | | 0.9 | 129.9 | 37.4 |
| (HLLS, 20, 50,V,V,AV,1) | 13.5 | -125.9 | | -8.4 | | 0.8 | 130.2 | 37.7 |
| (HLLS, 20, 50,V,V,AV,2) | 13.5 | -125.9 | | -5.5 | | 0.9 | 133.0 | 40.5 |
| (HLLS, 20, 50,V,V,AH,1) | 13.5 | -131.9 | | -8.4 | | 0.8 | 136.2 | 43.7 |
| (HLLS, 20, 50,V,V,AH,2) | 13.5 | -122.7 | | -5.5 | | 0.9 | 129.8 | 37.3 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -121.3 | 7.6 | -16.2 | 1.4 | 2.7 | 128.6 | 30.1 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -117.0 | 7.6 | -6.5 | 1.4 | 2.7 | 134.0 | 35.5 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -117.0 | 7.6 | -6.5 | 1.4 | 2.7 | 134.0 | 35.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -120.1 | 7.6 | -16.2 | 1.4 | 2.7 | 127.4 | 28.9 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -118.0 | 7.6 | -6.5 | 1.4 | 2.7 | 135.0 | 36.5 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -118.9 | 7.6 | -6.5 | 1.4 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -123.7 | 7.6 | -16.2 | 1.4 | 2.7 | 131.0 | 32.5 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -118.0 | 7.6 | -6.5 | 1.4 | 2.7 | 135.0 | 36.5 |
| (HLLS, 20,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -120.1 | 9.4 | -5.6 | 1.3 | 2.7 | 139.9 | 41.4 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -111.4 | 9.4 | -4.4 | 1.3 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -107.5 | 9.4 | -5.2 | 1.3 | 2.7 | 127.7 | 29.2 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -115.6 | 9.4 | -5.6 | 1.3 | 2.7 | 135.4 | 36.9 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -111.4 | 9.4 | -4.4 | 1.3 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -107.5 | 9.4 | -5.2 | 1.3 | 2.7 | 127.7 | 29.2 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -109.0 | 9.4 | -5.6 | 1.3 | 2.7 | 128.8 | 30.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -106.6 | 9.4 | -4.4 | 1.3 | 2.7 | 127.6 | 29.1 |
| (HLLS, 20,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 43
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 20KM SITE 43

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-04-64

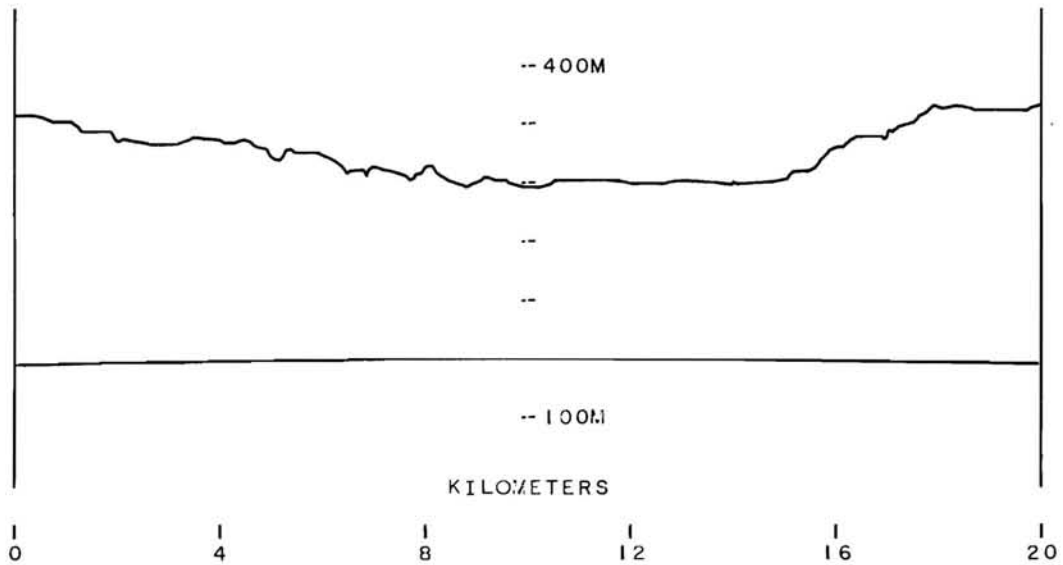
VALLEY 700FT AHEAD, CLEAR WITH SCATTERED 80FT TREES 800FT AHEAD AND
ON LEFT VALLEY BANK, 1/2MI DEEP. TREES AND BUILDINGS ON RIGHT, 40FT
ELECTRIC LINES BEHIND.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 24.7 | -123.0 | | -11.6 | | 0.0 | 136.1 | 51.6 |
| (HLLS, 20, 20,V,V,AV,1) | 24.7 | -115.4 | | -11.6 | | 0.0 | 128.5 | 44.0 |
| (HLLS, 20, 20,V,V,AH,1) | 24.7 | -127.5 | | -11.6 | | 0.0 | 140.6 | 56.1 |
| (HLLS, 20, 50,V,V, P,1) | 19.3 | -119.4 | | -8.5 | | 0.8 | 129.4 | 36.9 |
| (HLLS, 20, 50,V,V, P,2) | 19.3 | -115.3 | | -5.2 | | 0.9 | 128.5 | 36.0 |
| (HLLS, 20, 50,V,V,AV,1) | 19.3 | -115.3 | | -8.5 | | 0.8 | 125.3 | 32.8 |
| (HLLS, 20, 50,V,V,AV,2) | 19.3 | -114.1 | | -5.2 | | 0.9 | 127.3 | 34.8 |
| (HLLS, 20, 50,V,V,AH,1) | 19.3 | -119.0 | | -8.5 | | 0.8 | 129.0 | 36.5 |
| (HLLS, 20, 50,V,V,AH,2) | 19.3 | -114.7 | | -5.2 | | 0.9 | 127.9 | 35.4 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -114.6 | 7.6 | -7.4 | 1.4 | 2.7 | 130.7 | 32.2 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -107.5 | 7.6 | -2.0 | 1.4 | 2.7 | 129.0 | 30.5 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -106.6 | 7.6 | -5.1 | 1.4 | 2.7 | 125.0 | 26.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -109.8 | 7.6 | -7.4 | 1.4 | 2.7 | 125.9 | 27.4 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -106.9 | 7.6 | -2.0 | 1.4 | 2.7 | 128.4 | 29.9 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -105.2 | 7.6 | -5.1 | 1.4 | 2.7 | 123.6 | 25.1 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -111.9 | 7.6 | -7.4 | 1.4 | 2.7 | 128.0 | 29.5 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -110.6 | 7.6 | -2.0 | 1.4 | 2.7 | 132.1 | 33.6 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -108.1 | 7.6 | -5.1 | 1.4 | 2.7 | 126.5 | 28.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -109.0 | 9.4 | -3.0 | 1.3 | 2.7 | 131.4 | 32.9 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -106.1 | 9.4 | -5.7 | 1.3 | 2.7 | 125.8 | 27.3 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -104.9 | 9.4 | -5.0 | 1.3 | 2.7 | 125.3 | 26.8 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -109.0 | 9.4 | -3.0 | 1.3 | 2.7 | 131.4 | 32.9 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -106.9 | 9.4 | -5.7 | 1.3 | 2.7 | 126.6 | 28.1 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -105.2 | 9.4 | -5.0 | 1.3 | 2.7 | 125.6 | 27.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -106.4 | 9.4 | -3.0 | 1.3 | 2.7 | 128.8 | 30.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -104.1 | 9.4 | -5.7 | 1.3 | 2.7 | 123.8 | 25.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -102.8 | 9.4 | -5.0 | 1.3 | 2.7 | 123.2 | 24.7 |

OHIO HILLS B= 20KM SITE 44
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 44

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-10-64

45FT TREE 15FT AHEAD. SCATTERED TREES AND BUILDINGS .25MI AHEAD TO HORIZON. 45FT TREES 15FT TO RIGHT AND LEFT, BUILDINGS 50FT TO RIGHT. ROAD TO LEFT. BUILDINGS .25MI TO LEFT. 15FT PHONE LINE 12FT FRONT LEFT AND RIGHT.

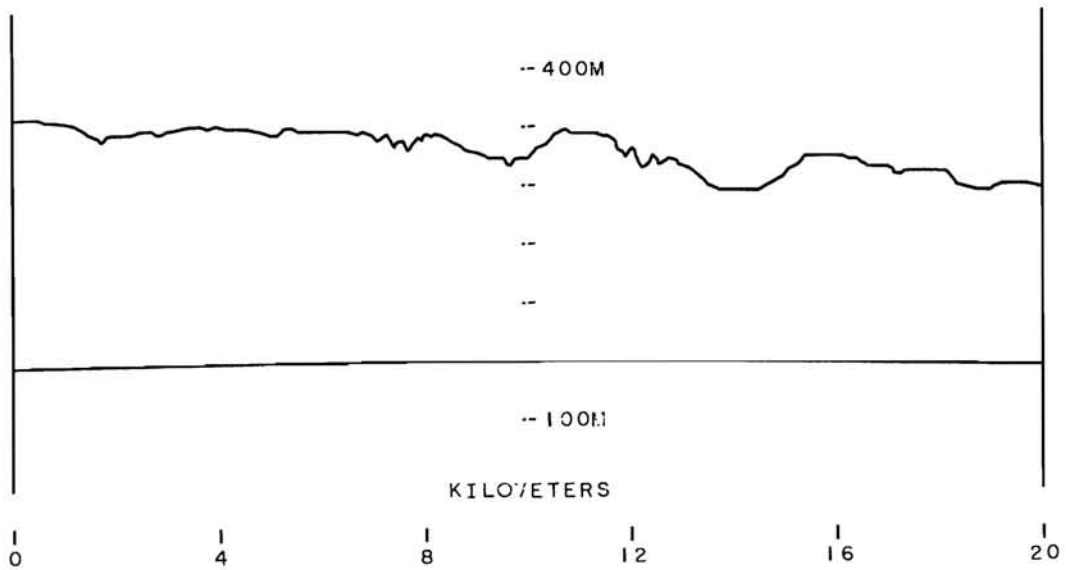
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.3 | -122.0 | | -5.2 | | 0.0 | 139.1 | 54.6 |
| (HLLS, 20, 20,V,V,AV,1) | 22.3 | -117.0 | | -5.2 | | 0.0 | 134.1 | 49.6 |
| (HLLS, 20, 20,V,V,AH,1) | 22.3 | -119.5 | | -5.2 | | 0.0 | 136.6 | 52.1 |
| (HLLS, 20, 50,V,V, P,1) | 22.7 | -117.9 | | -8.0 | | 0.8 | 131.8 | 39.3 |
| (HLLS, 20, 50,V,V, P,2) | 22.7 | -124.3 | | -5.2 | | 0.9 | 140.9 | 48.4 |
| (HLLS, 20, 50,V,V,AV,1) | 22.7 | -116.4 | | -8.0 | | 0.8 | 130.3 | 37.8 |
| (HLLS, 20, 50,V,V,AV,2) | 22.7 | -117.9 | | -5.2 | | 0.9 | 134.5 | 42.0 |
| (HLLS, 20, 50,V,V,AH,1) | 22.7 | -116.6 | | -8.0 | | 0.8 | 130.5 | 38.0 |
| (HLLS, 20, 50,V,V,AH,2) | 22.7 | -117.9 | | -5.2 | | 0.9 | 134.5 | 42.0 |
| (HLLS, 20, 100,V,V, P,3) | 20.0 | -128.4 | 7.6 | -4.2 | 1.4 | 2.7 | 147.7 | 49.2 |
| (HLLS, 20, 100,V,V, P,6) | 20.0 | -114.4 | 7.6 | -2.3 | 1.4 | 2.7 | 135.6 | 37.1 |
| (HLLS, 20, 100,V,V, P,9) | 20.0 | -109.0 | 7.6 | -6.5 | 1.4 | 2.7 | 126.0 | 27.5 |
| (HLLS, 20, 100,V,V,AV,3) | 20.0 | -112.9 | 7.6 | -4.2 | 1.4 | 2.7 | 132.2 | 33.7 |
| (HLLS, 20, 100,V,V,AV,6) | 20.0 | -107.4 | 7.6 | -2.3 | 1.4 | 2.7 | 128.6 | 30.1 |
| (HLLS, 20, 100,V,V,AV,9) | 20.0 | -104.1 | 7.6 | -6.5 | 1.4 | 2.7 | 121.1 | 22.6 |
| (HLLS, 20, 100,V,V,AH,3) | 20.0 | -114.2 | 7.6 | -4.2 | 1.4 | 2.7 | 133.5 | 35.0 |
| (HLLS, 20, 100,V,V,AH,6) | 20.0 | -109.4 | 7.6 | -2.3 | 1.4 | 2.7 | 130.6 | 32.1 |
| (HLLS, 20, 100,V,V,AH,9) | 20.0 | -107.5 | 7.6 | -6.5 | 1.4 | 2.7 | 124.5 | 26.0 |
| (HLLS, 20, 100,H,H, P,3) | 20.0 | -115.4 | 9.4 | -0.2 | 1.3 | 2.7 | 140.6 | 42.1 |
| (HLLS, 20, 100,H,H, P,6) | 20.0 | -111.1 | 9.4 | -6.2 | 1.3 | 2.7 | 130.3 | 31.8 |
| (HLLS, 20, 100,H,H, P,9) | 20.0 | -104.3 | 9.4 | -6.8 | 1.3 | 2.7 | 122.9 | 24.4 |
| (HLLS, 20, 100,H,H,AV,3) | 20.0 | -113.5 | 9.4 | -0.2 | 1.3 | 2.7 | 138.7 | 40.2 |
| (HLLS, 20, 100,H,H,AV,6) | 20.0 | -104.1 | 9.4 | -6.2 | 1.3 | 2.7 | 123.3 | 24.8 |
| (HLLS, 20, 100,H,H,AV,9) | 20.0 | -103.0 | 9.4 | -6.8 | 1.3 | 2.7 | 121.6 | 23.1 |
| (HLLS, 20, 100,H,H,AH,3) | 20.0 | -112.8 | 9.4 | -0.2 | 1.3 | 2.7 | 138.0 | 39.5 |
| (HLLS, 20, 100,H,H,AH,6) | 20.0 | -109.8 | 9.4 | -6.2 | 1.3 | 2.7 | 129.0 | 30.5 |
| (HLLS, 20, 100,H,H,AH,9) | 20.0 | -107.4 | 9.4 | -6.8 | 1.3 | 2.7 | 126.0 | 27.5 |

OHIO HILLS 8= 20KM SITE 45

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 45

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-11-64

35FT LINES 100FT AHEAD. TREES BEYOND ALONG ROAD FOR .3MI, WOODS AT .4
MI .3MI DEEP, ALL TREES 40FT HIGH. PHONE LINES ALONG ROAD TO LEFT.
BUILDINGS .2MI ON LEFT.

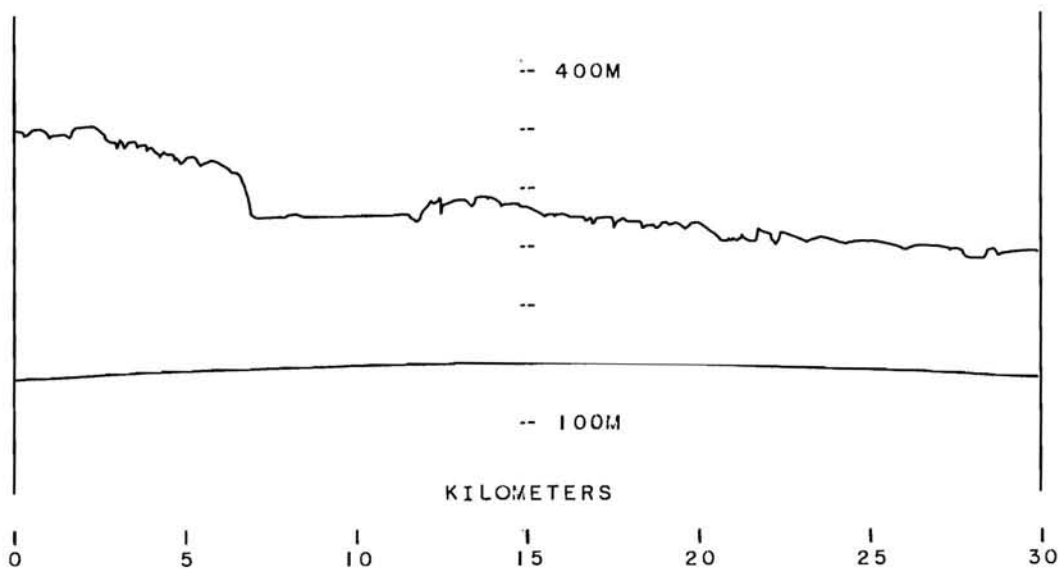
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.0 | -121.7 | | -9.1 | | 0.0 | 131.1 | 46.6 |
| (HLLS, 20, 20,V,V,AV,1) | 19.0 | -120.4 | | -9.1 | | 0.0 | 130.3 | 45.8 |
| (HLLS, 20, 20,V,V,AH,1) | 19.0 | -120.4 | | -9.1 | | 0.0 | 130.3 | 45.8 |
| (HLLS, 20, 50,V,V, P,1) | 20.0 | -129.4 | | -11.8 | | 0.8 | 136.8 | 44.3 |
| (HLLS, 20, 50,V,V, P,2) | 20.0 | -125.4 | | -5.5 | | 0.9 | 139.0 | 46.5 |
| (HLLS, 20, 50,V,V,AV,1) | 20.0 | -127.5 | | -11.8 | | 0.8 | 134.9 | 42.4 |
| (HLLS, 20, 50,V,V,AV,2) | 20.0 | -123.4 | | -5.5 | | 0.9 | 137.0 | 44.5 |
| (HLLS, 20, 50,V,V,AH,1) | 20.0 | -125.9 | | -11.8 | | 0.8 | 133.3 | 40.8 |
| (HLLS, 20, 50,V,V,AH,2) | 20.0 | -117.0 | | -5.5 | | 0.9 | 130.6 | 38.1 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.9 | 7.6 | -8.3 | 1.4 | 2.7 | 148.1 | 49.6 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -125.2 | 7.6 | -1.4 | 1.4 | 2.7 | 147.3 | 48.8 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -123.0 | 7.6 | -2.7 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -128.1 | 7.6 | -8.3 | 1.4 | 2.7 | 143.3 | 44.8 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -121.7 | 7.6 | -1.4 | 1.4 | 2.7 | 143.8 | 45.3 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -119.5 | 7.6 | -2.7 | 1.4 | 2.7 | 140.3 | 41.8 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -131.0 | 7.6 | -8.3 | 1.4 | 2.7 | 146.2 | 47.7 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -123.7 | 7.6 | -1.4 | 1.4 | 2.7 | 145.8 | 47.3 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -120.4 | 7.6 | -2.7 | 1.4 | 2.7 | 141.2 | 42.7 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -131.0 | 9.4 | -0.6 | 1.3 | 2.7 | 155.8 | 57.3 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -122.2 | 9.4 | -6.5 | 1.3 | 2.7 | 141.1 | 42.6 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -120.2 | 9.4 | -5.0 | 1.3 | 2.7 | 140.6 | 42.1 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -131.9 | 9.4 | -0.6 | 1.3 | 2.7 | 156.7 | 58.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -123.6 | 9.4 | -6.5 | 1.3 | 2.7 | 142.5 | 44.0 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -121.4 | 9.4 | -5.0 | 1.3 | 2.7 | 141.8 | 43.3 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -126.6 | 9.4 | -0.6 | 1.3 | 2.7 | 151.4 | 52.9 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -121.3 | 9.4 | -6.5 | 1.3 | 2.7 | 140.2 | 41.7 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -120.5 | 9.4 | -5.0 | 1.3 | 2.7 | 140.9 | 42.4 |

OHIO HILLS B= 30KM SITE 41

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 41

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-06-64

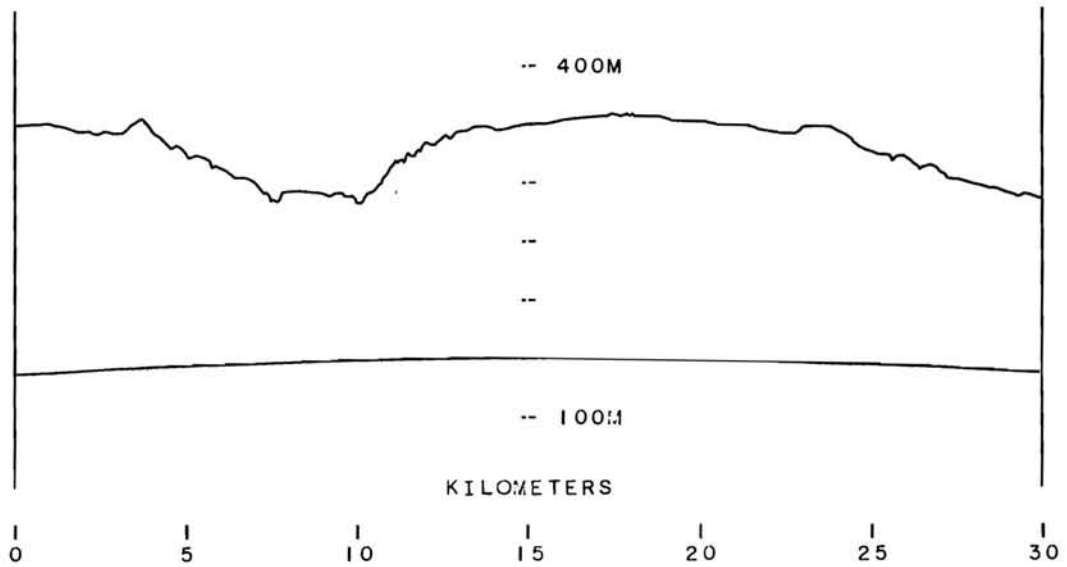
15FT PHONE LINES 6FT FRONT RIGHT, SCATTERED 70FT TREES .5MI AHEAD,
ALSO BUILDINGS AND LINES, WOODS 300FT BEYOND, .25MI DEEP. HOUSES AND
SCATTERED TREES .4MI RIGHT, 30FT WOODS, 300FT DEEP, .6MI LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 27.5 | -118.9 | | -13.0 | | 0.0 | 133.4 | 45.4 |
| (HLLS, 30, 20,V,V,AV,1) | 27.5 | -129.0 | | -13.0 | | 0.0 | 143.5 | 55.5 |
| (HLLS, 30, 20,V,V,AH,1) | 27.5 | -125.6 | | -13.0 | | 0.0 | 140.1 | 52.1 |
| (HLLS, 30, 50,V,V, P,1) | 17.2 | -131.9 | | -8.0 | | 0.8 | 140.3 | 44.3 |
| (HLLS, 30, 50,V,V, P,2) | 17.2 | -129.4 | | -5.5 | | 0.9 | 140.2 | 44.2 |
| (HLLS, 30, 50,V,V,AV,1) | 17.2 | -140.1 | | -8.0 | | 0.8 | 148.5 | 52.5 |
| (HLLS, 30, 50,V,V,AV,2) | 17.2 | -131.0 | | -5.5 | | 0.9 | 141.8 | 45.8 |
| (HLLS, 30, 50,V,V,AH,1) | 17.2 | -138.9 | | -8.0 | | 0.8 | 147.3 | 51.3 |
| (HLLS, 30, 50,V,V,AH,2) | 17.2 | -131.4 | | -5.5 | | 0.9 | 142.2 | 46.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -143.0 | 7.6 | -14.7 | 1.4 | 2.7 | 151.8 | 49.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -130.6 | 7.6 | -6.3 | 1.4 | 2.7 | 147.8 | 45.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.2 | 7.6 | -6.7 | 1.4 | 2.7 | 144.0 | 42.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -137.0 | 7.6 | -14.7 | 1.4 | 2.7 | 145.8 | 43.8 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -132.9 | 7.6 | -6.3 | 1.4 | 2.7 | 150.1 | 48.1 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -129.0 | 7.6 | -6.7 | 1.4 | 2.7 | 145.8 | 43.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -141.5 | 7.6 | -14.7 | 1.4 | 2.7 | 150.3 | 48.3 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -132.9 | 7.6 | -6.3 | 1.4 | 2.7 | 150.1 | 48.1 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -129.0 | 7.6 | -6.7 | 1.4 | 2.7 | 145.8 | 43.8 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -5.7 | 1.3 | 2.7 | 156.7 | 54.7 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -124.1 | 9.4 | -4.5 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -119.5 | 9.4 | -5.2 | 1.3 | 2.7 | 139.7 | 37.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -5.7 | 1.3 | 2.7 | 156.7 | 54.7 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -125.9 | 9.4 | -4.5 | 1.3 | 2.7 | 146.8 | 44.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -121.4 | 9.4 | -5.2 | 1.3 | 2.7 | 141.6 | 39.6 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -127.6 | 9.4 | -5.7 | 1.3 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -124.1 | 9.4 | -4.5 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -118.9 | 9.4 | -5.2 | 1.3 | 2.7 | 139.1 | 37.1 |

OHIO HILLS B= 30KM SITE 42
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 42

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-05-64

ROAD WITH 500FT LONG ROW OF TREES ON RIGHT SIDE AHEAD, ANOTHER ROW OF TREES .25MI LONG 800FT AHEAD, WOODS AND BRUSH .5MI AHEAD, LEFT, AND RIGHT, 1MI DEEP. BUILDINGS AND PHONE LINES ON RIGHT, 40FT ELECTRIC LINES AND CLEAR FIELD TO LEFT.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 27.9 | -127.5 | | -5.3 | | 0.0 | 150.1 | 62.1 |
| (HLLS, 30, 20,V,V,AV,1) | 27.9 | -127.5 | | -5.3 | | 0.0 | 150.1 | 62.1 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 17.2 | ** | | -5.5 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 17.2 | ** | | -7.5 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | 17.2 | ** | | -5.5 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AV,2) | 17.2 | ** | | -7.5 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -140.1 | 7.6 | -9.0 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -138.9 | 7.6 | -4.2 | 1.4 | 2.7 | 158.2 | 56.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -136.2 | 7.6 | -5.1 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -140.1 | 7.6 | -9.0 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -138.9 | 7.6 | -4.2 | 1.4 | 2.7 | 158.2 | 56.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -136.2 | 7.6 | -5.1 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -9.2 | 1.3 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -6.0 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -128.1 | 9.4 | -5.8 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -137.0 | 9.4 | -9.2 | 1.3 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -131.9 | 9.4 | -6.0 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -128.1 | 9.4 | -5.8 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

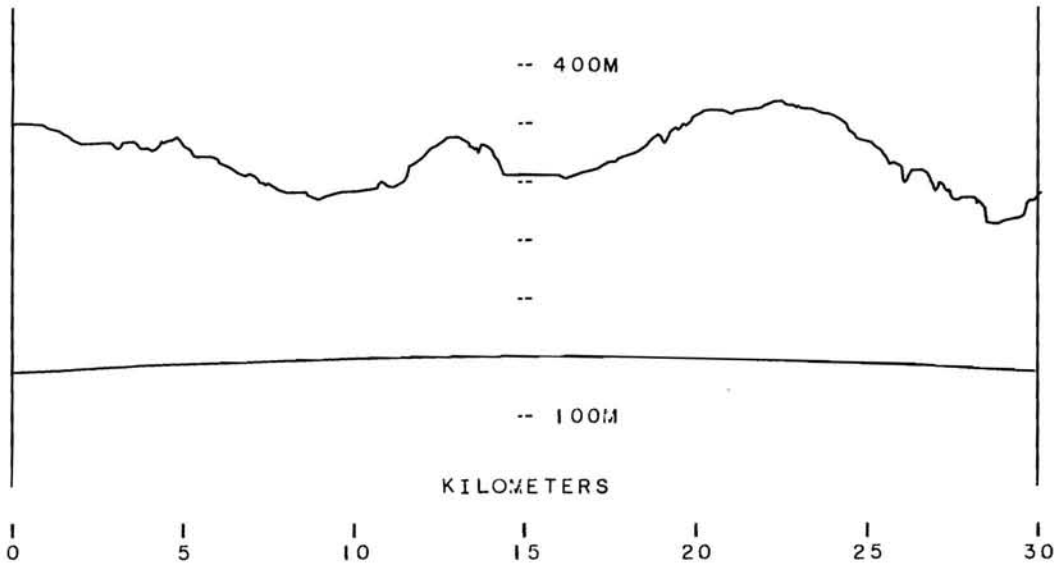
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS H= 30KM SITE 43

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS 8= 30KM SITE 43

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-04-64

20FT PHONE LINES AHEAD, BUILDINGS .2MI AHEAD, FOLLOWED BY BRUSH TO 2 MI, THEN WATER TOWER, TERRAIN SLOPES TOWARD VALLEY .7MI AHEAD. ELECTRIC LINES AND ROAD TO LEFT, OPEN FIELD AND WOODS BEYOND TO RIGHT. 2 80FT TREES .2MI LEFT.

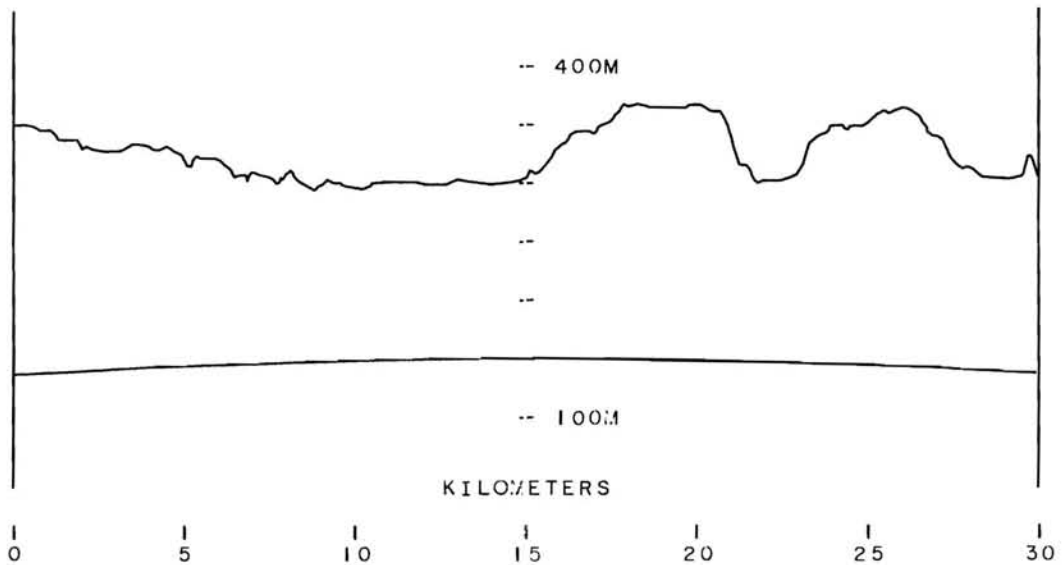
| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 24.7 | -135.4 | | -13.0 | | 0.0 | 147.1 | 59.1 |
| (HLLS, 30, 20,V,V,AV,1) | 24.7 | -138.9 | | -13.0 | | 0.0 | 150.6 | 62.6 |
| (HLLS, 30, 20,V,V,AH,1) | 24.7 | -137.9 | | -13.0 | | 0.0 | 149.6 | 61.6 |
| (HLLS, 30, 50,V,V, P,1) | 19.3 | -133.5 | | -8.0 | | 0.8 | 144.0 | 48.0 |
| (HLLS, 30, 50,V,V, P,2) | 19.3 | -129.4 | | -5.5 | | 0.9 | 142.3 | 46.3 |
| (HLLS, 30, 50,V,V,AV,1) | 19.3 | -131.9 | | -8.0 | | 0.8 | 142.4 | 46.4 |
| (HLLS, 30, 50,V,V,AV,2) | 19.3 | -125.6 | | -5.5 | | 0.9 | 138.5 | 42.5 |
| (HLLS, 30, 50,V,V,AH,1) | 19.3 | -130.6 | | -8.0 | | 0.8 | 141.1 | 45.1 |
| (HLLS, 30, 50,V,V,AH,2) | 19.3 | -125.9 | | -5.5 | | 0.9 | 138.8 | 42.8 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -134.0 | 7.6 | -14.7 | 1.4 | 2.7 | 142.8 | 40.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -127.5 | 7.6 | -6.3 | 1.4 | 2.7 | 144.7 | 42.7 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -125.2 | 7.6 | -6.7 | 1.4 | 2.7 | 142.0 | 40.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -129.8 | 7.6 | -14.7 | 1.4 | 2.7 | 138.6 | 36.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -126.1 | 7.6 | -6.3 | 1.4 | 2.7 | 143.3 | 41.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -124.5 | 7.6 | -6.7 | 1.4 | 2.7 | 141.3 | 39.3 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -14.7 | 1.4 | 2.7 | 142.3 | 40.3 |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -135.4 | 9.4 | -5.7 | 1.3 | 2.7 | 155.1 | 53.1 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -125.2 | 9.4 | -4.5 | 1.3 | 2.7 | 146.1 | 44.1 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -122.8 | 9.4 | -5.2 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -128.4 | 9.4 | -5.7 | 1.3 | 2.7 | 148.1 | 46.1 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -123.9 | 9.4 | -4.5 | 1.3 | 2.7 | 144.8 | 42.8 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -122.8 | 9.4 | -5.2 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -125.9 | 9.4 | -5.7 | 1.3 | 2.7 | 145.6 | 43.6 |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 30KM SITE 44
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 30KM SITE 44

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-07-64

40FT LINES, HILL, AND FENCE AHEAD, SCATTERED 35FT TREES 300FT AHEAD
TO 500FT. SINGLE 70FT TREE 200FT TO RIGHT FRONT, SCATTERED TREES AND
BUILDINGS 400FT TO LEFT FRONT. 20FT PHONE LINES BEHIND.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.3 | -132.9 | | -9.7 | | 0.0 | 145.5 | 57.5 |
| (HLLS, 30, 20,V,V,AV,1) | 22.3 | -134.0 | | -9.7 | | 0.0 | 146.6 | 58.6 |
| (HLLS, 30, 20,V,V,AH,1) | 22.3 | -134.7 | | -9.7 | | 0.0 | 147.3 | 59.3 |
| (HLLS, 30, 50,V,V, P,1) | 22.7 | ** | | -11.0 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 22.7 | -138.9 | | -5.2 | | 0.9 | 155.5 | 59.5 |
| (HLLS, 30, 50,V,V,AV,1) | 22.7 | ** | | -11.0 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AV,2) | 22.7 | -137.0 | | -5.2 | | 0.9 | 153.6 | 57.6 |
| (HLLS, 30, 50,V,V,AH,1) | 22.7 | ** | | -11.0 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AH,2) | 22.7 | -140.1 | | -5.2 | | 0.9 | 156.7 | 60.7 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -6.0 | 1.4 | 2.7 | 159.0 | 57.0 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -1.2 | 1.4 | 2.7 | 163.8 | 61.8 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -136.2 | 7.6 | -3.3 | 1.4 | 2.7 | 156.4 | 54.4 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -6.0 | 1.4 | 2.7 | 151.0 | 49.0 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -129.0 | 7.6 | -1.2 | 1.4 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -125.9 | 7.6 | -3.3 | 1.4 | 2.7 | 146.1 | 44.1 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -141.5 | 7.6 | -6.0 | 1.4 | 2.7 | 159.0 | 57.0 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -136.2 | 7.6 | -1.2 | 1.4 | 2.7 | 158.5 | 56.5 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -136.2 | 7.6 | -3.3 | 1.4 | 2.7 | 156.4 | 54.4 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -0.7 | 1.3 | 2.7 | 163.6 | 61.6 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -4.3 | 1.3 | 2.7 | 160.0 | 58.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -6.3 | 1.3 | 2.7 | 151.0 | 49.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | ** | 9.4 | -0.7 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -129.4 | 9.4 | -4.3 | 1.3 | 2.7 | 150.5 | 48.5 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.9 | 9.4 | -6.3 | 1.3 | 2.7 | 143.0 | 41.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -136.2 | 9.4 | -0.7 | 1.3 | 2.7 | 160.9 | 58.9 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -136.2 | 9.4 | -4.3 | 1.3 | 2.7 | 157.3 | 55.3 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -140.1 | 9.4 | -6.3 | 1.3 | 2.7 | 159.2 | 57.2 |

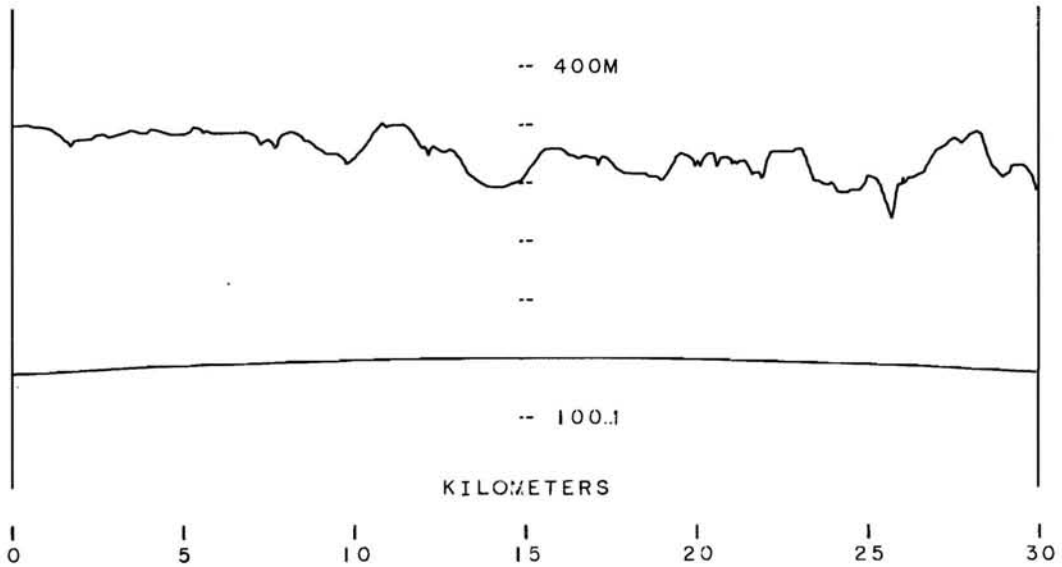
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 45

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 45

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-11-64

40FT TREES 20FT AHEAD. ALSO 15FT PHONE LINE, SCATTERED TREES AND BUILDINGS .2MI AHEAD. TERRAIN SLOPES UP. WOODS .2MI TO RIGHT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.0 | -129.8 | | -5.1 | | 0.0 | 143.7 | 55.7 |
| (HLLS, 30, 20,V,V,AV,1) | 19.0 | -129.8 | | -5.1 | | 0.0 | 143.7 | 55.7 |
| (HLLS, 30, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V, P,1) | 22.7 | ** | | -1.6 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V, P,2) | 22.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AV,1) | 22.7 | ** | | -1.6 | | 0.8 | ** | ** |
| (HLLS, 30, 50,V,V,AV,2) | 22.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 30, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 30, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -137.9 | 7.6 | -0.8 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -131.9 | 7.6 | -2.0 | 1.4 | 2.7 | 153.4 | 51.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -131.0 | 7.6 | -1.7 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -137.9 | 7.6 | -0.8 | 1.4 | 2.7 | 160.6 | 58.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -2.0 | 1.4 | 2.7 | 153.4 | 51.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -131.0 | 7.6 | -1.7 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H, P,3) | 20.0 | ** | 9.4 | -4.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -138.9 | 9.4 | -2.7 | 1.3 | 2.7 | 161.6 | 59.6 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -137.9 | 9.4 | -3.3 | 1.3 | 2.7 | 160.0 | 58.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | ** | 9.4 | -4.1 | 1.3 | 2.7 | ** | ** |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -138.9 | 9.4 | -2.7 | 1.3 | 2.7 | 161.6 | 59.6 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -137.9 | 9.4 | -3.3 | 1.3 | 2.7 | 160.0 | 58.0 |
| (HLLS, 30,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 30,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

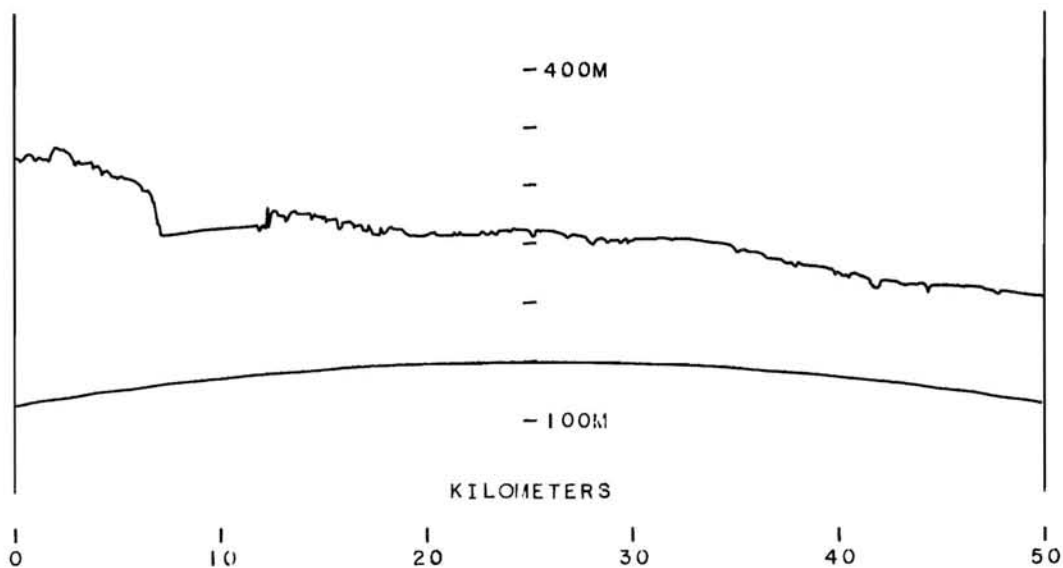
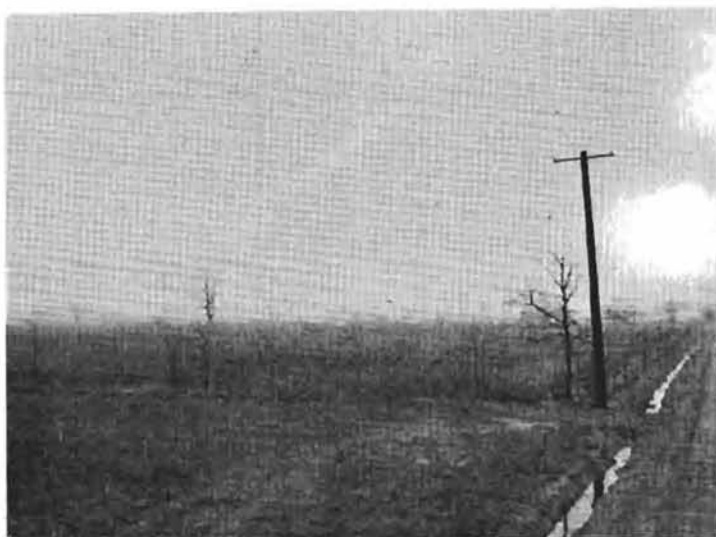
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 41

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 41

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-06-64

WIRES OVERHEAD TO FRONT, ALSO 7 TREES 110FT AHEAD, 7 TO 10FT HIGH, 70 FT TREES .2MI AHEAD, WITH 15FT TREES ON BOTH SIDES, DENSE WOODS AT 1 MI. 35FT WIRES OVERHEAD TO RIGHT, BUILDINGS .6MI RIGHT AND LEFT, BUILDINGS AND ROAD .2MI FAR RIGHT, 20FT TREES FOR .1MI ON FAR LEFT, FOLLOWING FENCE.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 27.5 | -130.6 | | -12.9 | | 0.0 | 145.2 | 52.8 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 27.5 | -131.0 | | -12.9 | | 0.0 | 145.6 | 53.2 |
| (HLLS, 50, 50,V,V, P,1) | 22.7 | ** | | -1.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 22.7 | ** | | -1.6 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 22.7 | ** | | -8.7 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -16.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -6.6 | 1.4 | 2.7 | 158.4 | 52.0 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.9 | 7.6 | -6.4 | 1.4 | 2.7 | 156.0 | 49.6 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | ** | 7.6 | -16.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -141.5 | 7.6 | -6.6 | 1.4 | 2.7 | 158.4 | 52.0 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -138.9 | 7.6 | -6.4 | 1.4 | 2.7 | 156.0 | 49.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -6.2 | 1.3 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -134.0 | 9.4 | -4.4 | 1.3 | 2.7 | 155.0 | 48.6 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.4 | 9.4 | -5.2 | 1.3 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -134.7 | 9.4 | -6.2 | 1.3 | 2.7 | 153.9 | 47.5 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -134.7 | 9.4 | -4.4 | 1.3 | 2.7 | 155.7 | 49.3 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -129.4 | 9.4 | -5.2 | 1.3 | 2.7 | 149.6 | 43.2 |

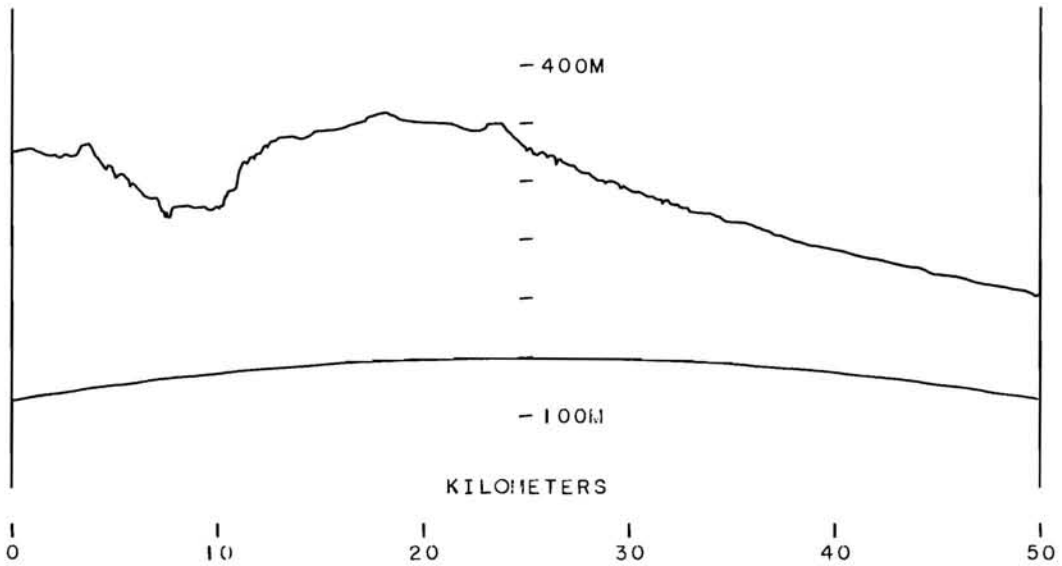
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS H= 50KM SITE 42
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 42

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-05-64

ROAD WITH 20FT TREES 300FT AHEAD, ROAD AND 40FT WIRES CROSS THERE
30FT WOODS AND BRUSH, .5MI DEEP, BEYOND CROSSROADS. 40FT ELECTRIC
LINES 200FT LEFT, BUILDINGS ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 27.9 | -140.1 | | -13.0 | | 0.0 | 155.0 | 62.6 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 22.7 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 22.7 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 100,V,V, P,3) | 20.0 | ** | 7.6 | -10.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,6) | 20.0 | ** | 7.6 | -4.8 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50, 100,V,V, P,9) | 20.0 | -141.5 | 7.6 | -7.2 | 1.4 | 2.7 | 157.8 | 51.4 |
| (HLLS, 50, 100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H, P,3) | 20.0 | ** | 9.4 | -5.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50, 100,H,H, P,6) | 20.0 | -140.1 | 9.4 | -4.7 | 1.3 | 2.7 | 160.8 | 54.4 |
| (HLLS, 50, 100,H,H, P,9) | 20.0 | -137.0 | 9.4 | -5.2 | 1.3 | 2.7 | 157.2 | 50.8 |
| (HLLS, 50, 100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50, 100,H,H,AH,9) | * | * | * | * | * | * | * | * |

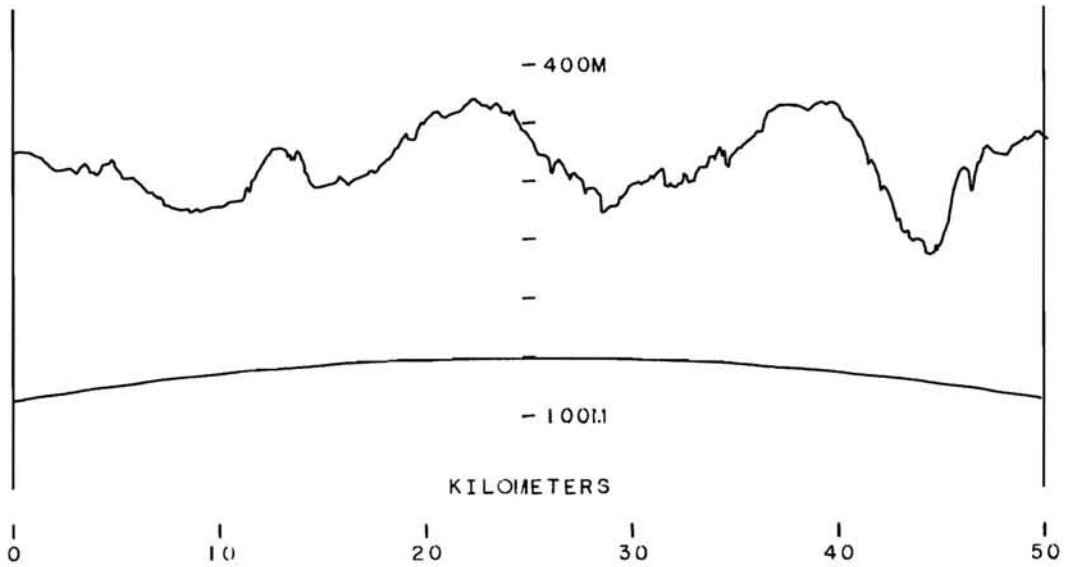
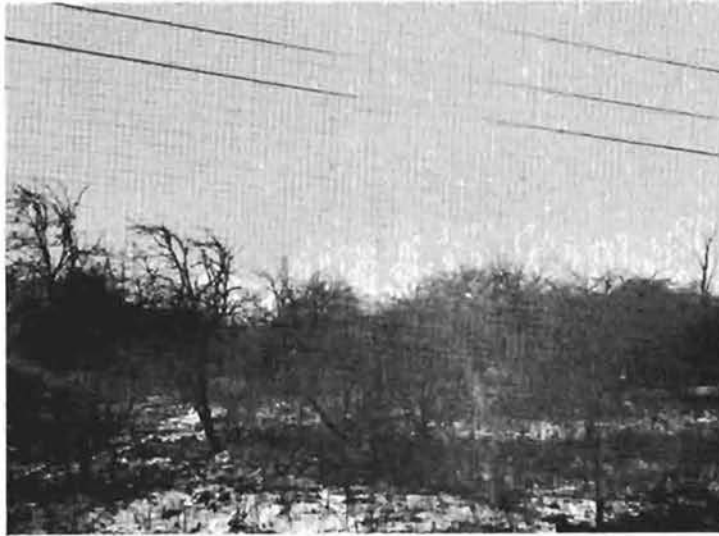
* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITF 43
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 43

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-04-64

APPLE ORCHARD AND BRUSH 200FT DEEP AHEAD, 40FT TREES AND BUILDINGS
500FT BEYOND, PHONE AND ELECTRIC LINES OVERHEAD TO FRONT. BUILDINGS
AND APPLE TREES ON LEFT, TREES AND BRUSH ON RIGHT, LINES CROSS ROAD
ON FAR RIGHT.

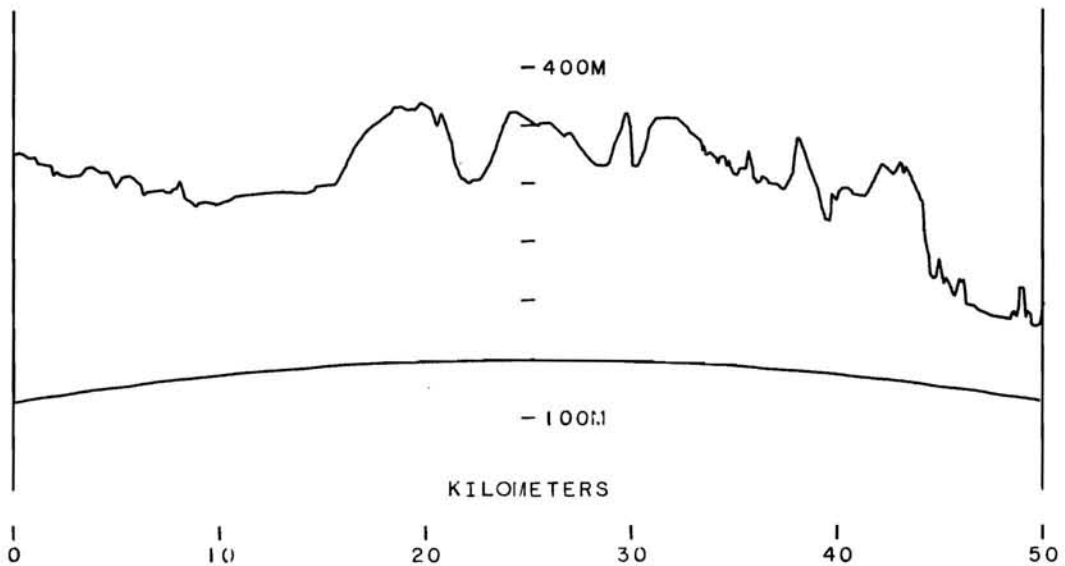
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 24.7 | -136.2 | | -5.6 | | 0.0 | 155.3 | 62.9 |
| (HLLS, 50, 20,V,V,AV,1) | 24.7 | -138.9 | | -5.6 | | 0.0 | 158.0 | 65.6 |
| (HLLS, 50, 20,V,V,AH,1) | 24.7 | -135.4 | | -5.6 | | 0.0 | 154.5 | 62.1 |
| (HLLS, 50, 50,V,V, P,1) | 19.3 | ** | | -6.0 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 19.3 | ** | | -7.8 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 19.3 | ** | | -6.0 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 19.3 | ** | | -7.8 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 19.3 | -145.0 | | -6.0 | 0.8 | | 157.5 | 57.1 |
| (HLLS, 50, 50,V,V,AH,2) | 19.3 | -145.0 | | -7.8 | 0.9 | | 155.6 | 55.2 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -4.0 | 1.4 | 2.7 | 158.4 | 52.0 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -135.4 | 7.6 | -2.3 | 1.4 | 2.7 | 156.6 | 50.2 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -131.9 | 7.6 | -2.1 | 1.4 | 2.7 | 153.3 | 46.9 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -135.4 | 7.6 | -4.0 | 1.4 | 2.7 | 154.9 | 48.5 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -131.9 | 7.6 | -2.3 | 1.4 | 2.7 | 153.1 | 46.7 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -130.2 | 7.6 | -2.1 | 1.4 | 2.7 | 151.6 | 45.2 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -141.5 | 7.6 | -4.0 | 1.4 | 2.7 | 161.0 | 54.6 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -135.4 | 7.6 | -2.3 | 1.4 | 2.7 | 156.6 | 50.2 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -131.4 | 7.6 | -2.1 | 1.4 | 2.7 | 152.8 | 46.4 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | -3.1 | 1.3 | 2.7 | 157.0 | 50.6 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -131.9 | 9.4 | -3.7 | 1.3 | 2.7 | 153.6 | 47.2 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -4.3 | 1.3 | 2.7 | 153.0 | 46.6 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -135.4 | 9.4 | -3.1 | 1.3 | 2.7 | 157.7 | 51.3 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -129.4 | 9.4 | -3.7 | 1.3 | 2.7 | 151.1 | 44.7 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -128.1 | 9.4 | -4.3 | 1.3 | 2.7 | 149.2 | 42.8 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -131.4 | 9.4 | -3.1 | 1.3 | 2.7 | 153.7 | 47.3 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -136.2 | 9.4 | -3.7 | 1.3 | 2.7 | 157.9 | 51.5 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -124.1 | 9.4 | -4.3 | 1.3 | 2.7 | 145.2 | 38.8 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 44
TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 44

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-07-64

70FT DEEP VALLEY EXTENDING .5MI AHEAD, NEAR BANK DENSELY COVERED BY
35FT TREES, 15FT PHONE LINES OVERHEAD TO FRONT, VALLEY FROM 200FT TO
.5MI COVERED BY SMALL BRUSH ONLY, DENSE 30 TO 50FT WOODS EXTEND FROM
VALLEY 1MI, DENSE WOODS EXTEND 1MI ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 22.3 | -138.9 | | -12.5 | | 0.0 | 148.7 | 56.3 |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | 22.3 | -143.0 | | -12.5 | | 0.0 | 152.8 | 60.4 |
| (HLLS, 50, 50,V,V, P,1) | 22.7 | -136.2 | | -10.2 | | 0.8 | 147.9 | 47.5 |
| (HLLS, 50, 50,V,V, P,2) | 22.7 | -134.7 | | -5.5 | | 0.9 | 151.0 | 50.6 |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | 22.7 | ** | | -10.2 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 22.7 | -135.4 | | -5.5 | | 0.9 | 151.7 | 51.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -23.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -135.4 | 7.6 | -7.9 | 1.4 | 2.7 | 151.0 | 44.6 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -135.4 | 7.6 | -5.9 | 1.4 | 2.7 | 153.0 | 46.6 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -137.0 | 7.6 | -23.3 | 1.4 | 2.7 | 137.2 | 30.8 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -136.2 | 7.6 | -7.9 | 1.4 | 2.7 | 151.8 | 45.4 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -135.4 | 7.6 | -5.9 | 1.4 | 2.7 | 153.0 | 46.6 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -135.4 | 9.4 | -5.0 | 1.3 | 2.7 | 155.8 | 49.4 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -132.9 | 9.4 | -4.4 | 1.3 | 2.7 | 153.9 | 47.5 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -131.9 | 9.4 | -5.3 | 1.3 | 2.7 | 152.0 | 45.6 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -129.4 | 9.4 | -5.0 | 1.3 | 2.7 | 149.8 | 43.4 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -129.4 | 9.4 | -4.4 | 1.3 | 2.7 | 150.4 | 44.0 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -133.5 | 9.4 | -5.3 | 1.3 | 2.7 | 153.6 | 47.2 |

* NO MEASUREMENT ATTEMPTED

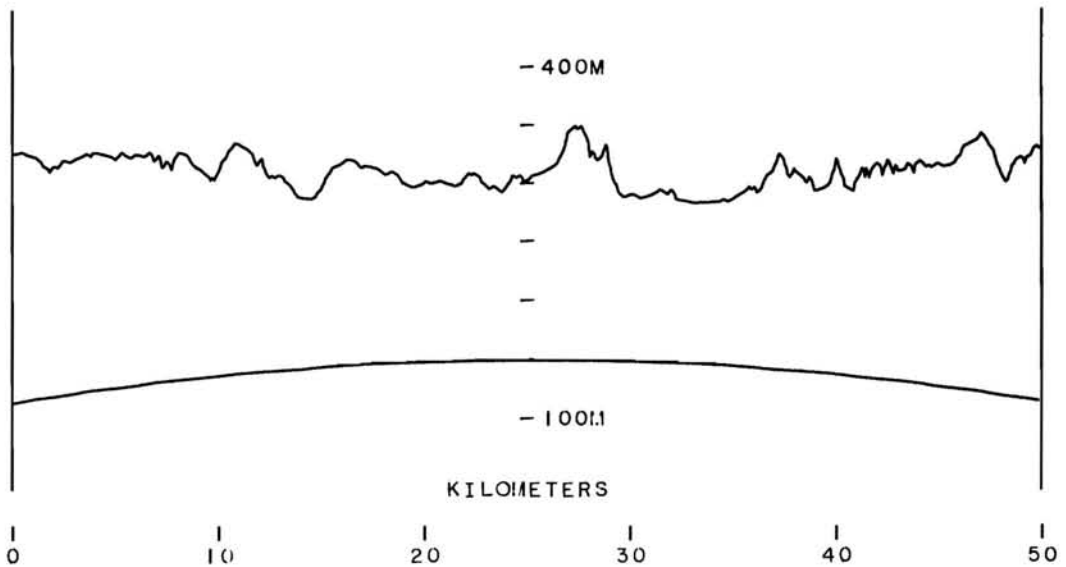
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 45

TRANSMITTER 4

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 45

TRANSMITTER 4

DATE AND COMMENTS OF OPERATOR

02-11-64

ROAD AHEAD WITH 40FT ELECTRIC LINE ON LEFT SIDE AND 15FT PHONE LINE ON RIGHT, SCATTERED 20 TO 40FT TREES AND BUILDINGS 300FT AHEAD, FOLLOWED BY TOWN. APPLE ORCHARD 500FT RIGHT, SCATTERED TREES AND BUSHES FOR .1MI LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.0 | -136.2 | | -13.0 | | 0.0 | 142.2 | 49.8 |
| (HLLS, 50, 20,V,V,AV,1) | 19.0 | -137.9 | | -13.0 | | 0.0 | 143.9 | 51.5 |
| (HLLS, 50, 20,V,V,AH,1) | 19.0 | -137.9 | | -13.0 | | 0.0 | 143.9 | 51.5 |
| (HLLS, 50, 50,V,V, P,1) | 20.0 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 20.0 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 20.0 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 20.0 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 20.0 | ** | | -7.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 20.0 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -10.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -4.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -7.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -141.4 | 7.6 | -10.3 | 1.4 | 2.7 | 154.6 | 48.2 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -136.2 | 7.6 | -4.5 | 1.4 | 2.7 | 155.2 | 48.8 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -135.4 | 7.6 | -7.2 | 1.4 | 2.7 | 151.7 | 45.3 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -141.4 | 7.6 | -10.3 | 1.4 | 2.7 | 154.6 | 48.2 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -136.2 | 7.6 | -4.5 | 1.4 | 2.7 | 155.2 | 48.8 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -135.4 | 7.6 | -7.2 | 1.4 | 2.7 | 151.7 | 45.3 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -141.4 | 9.4 | -5.4 | 1.3 | 2.7 | 161.4 | 55.0 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -141.4 | 9.4 | -4.8 | 1.3 | 2.7 | 162.0 | 55.6 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -140.1 | 9.4 | -5.3 | 1.3 | 2.7 | 160.2 | 53.8 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -140.1 | 9.4 | -5.4 | 1.3 | 2.7 | 160.1 | 53.7 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -134.0 | 9.4 | -4.8 | 1.3 | 2.7 | 154.6 | 48.2 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -131.9 | 9.4 | -5.3 | 1.3 | 2.7 | 152.0 | 45.6 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -140.1 | 9.4 | -5.4 | 1.3 | 2.7 | 160.1 | 53.7 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -134.0 | 9.4 | -4.8 | 1.3 | 2.7 | 154.6 | 48.2 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -131.9 | 9.4 | -5.3 | 1.3 | 2.7 | 152.0 | 45.6 |

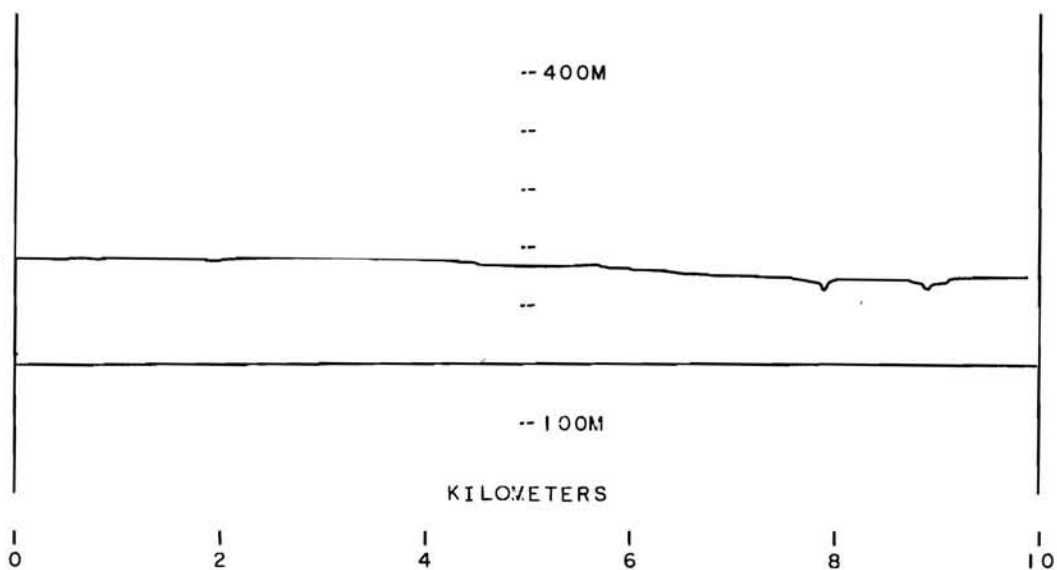
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 10KM SITE 51

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 10KM SITE 51

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR:

02-20-64

POWER LINES ON EAST SIDE OF ROAD AHEAD, 60FT TREES ON WEST SIDE.
WOODED AREA 200FT EAST.

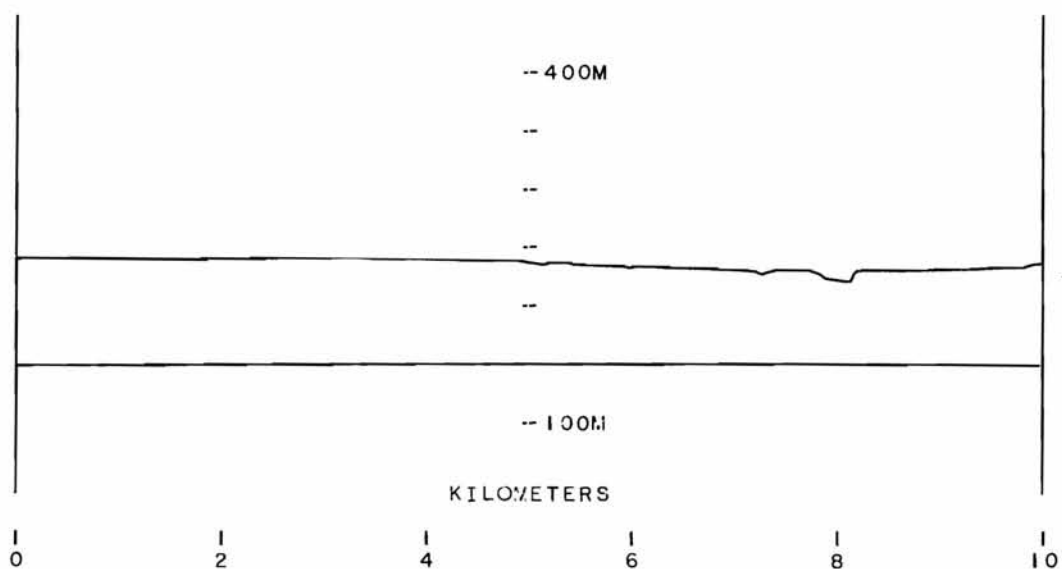
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 19.0 | -113.5 | | -12.8 | | 0.0 | 119.7 | 41.3 |
| (HLLS, 10, 20,V,V,AV,1) | 19.0 | -109.4 | | -12.8 | | 0.0 | 115.6 | 37.2 |
| (HLLS, 10, 20,V,V,AH,1) | 19.0 | -109.4 | | -12.8 | | 0.0 | 115.6 | 37.2 |
| (HLLS, 10, 50,V,V, P,1) | 20.3 | -136.2 | | -16.2 | | 0.8 | 139.5 | 53.1 |
| (HLLS, 10, 50,V,V, P,2) | 20.3 | -120.1 | | -5.3 | | 0.9 | 134.2 | 47.8 |
| (HLLS, 10, 50,V,V,AV,1) | 20.3 | -123.9 | | -16.2 | | 0.8 | 127.2 | 40.8 |
| (HLLS, 10, 50,V,V,AV,2) | 20.3 | -117.4 | | -5.3 | | 0.9 | 131.5 | 45.0 |
| (HLLS, 10, 50,V,V,AH,1) | 20.3 | -123.9 | | -16.2 | | 0.8 | 127.2 | 40.8 |
| (HLLS, 10, 50,V,V,AH,2) | 20.3 | -117.4 | | -5.3 | | 0.9 | 131.5 | 45.0 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -118.4 | 7.6 | -14.6 | 1.4 | 2.7 | 127.3 | 34.8 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -114.7 | 7.6 | -8.2 | 1.4 | 2.7 | 130.0 | 37.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -119.7 | 7.6 | -6.2 | 1.4 | 2.7 | 137.0 | 44.6 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -117.9 | 7.6 | -14.6 | 1.4 | 2.7 | 126.8 | 34.3 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -117.9 | 7.6 | -8.2 | 1.4 | 2.7 | 133.2 | 40.8 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -116.6 | 7.6 | -6.2 | 1.4 | 2.7 | 133.9 | 41.5 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -117.9 | 7.6 | -14.6 | 1.4 | 2.7 | 126.8 | 34.3 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -117.9 | 7.6 | -8.2 | 1.4 | 2.7 | 133.2 | 40.8 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -116.6 | 7.6 | -6.2 | 1.4 | 2.7 | 133.9 | 41.5 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -114.0 | 9.4 | -1.3 | 1.3 | 2.7 | 138.1 | 45.7 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -114.7 | 9.4 | -6.0 | 1.3 | 2.7 | 134.1 | 41.6 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -113.5 | 9.4 | -6.3 | 1.3 | 2.7 | 132.6 | 40.2 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -109.8 | 9.4 | -1.3 | 1.3 | 2.7 | 133.9 | 41.5 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -114.0 | 9.4 | -6.0 | 1.3 | 2.7 | 133.4 | 40.9 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -115.0 | 9.4 | -6.3 | 1.3 | 2.7 | 134.1 | 41.7 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -109.8 | 9.4 | -1.3 | 1.3 | 2.7 | 133.9 | 41.5 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -114.0 | 9.4 | -6.0 | 1.3 | 2.7 | 133.4 | 40.9 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -115.0 | 9.4 | -6.3 | 1.3 | 2.7 | 134.1 | 41.7 |

OHIO HILLS B= 10KM SITE 52

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 52

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-20-64

POWER LINES CROSS ROAD 50FT AHEAD AND BEHIND, 20FT PHONE LINES ON
NORTH SIDE OF ROAD. 30FT POWER LINES ON SOUTH SIDE, 60FT TREES WITH
LOW BRANCHES ON BOTH SIDES.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(I) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 21.6 | -111.4 | | -10.0 | | 0.0 | 123.0 | 44.5 |
| (HLLS, 10, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 10, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 10, 50,V,V, P,1) | 16.2 | -120.7 | | -10.6 | | 0.8 | 125.5 | 39.0 |
| (HLLS, 10, 50,V,V, P,2) | 16.2 | -110.6 | | -5.2 | | 0.9 | 120.7 | 34.3 |
| (HLLS, 10, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 10, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 10, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 10, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -111.4 | 7.6 | -6.1 | 1.4 | 2.7 | 128.8 | 36.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -109.4 | 7.6 | -1.3 | 1.4 | 2.7 | 131.6 | 39.1 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -103.4 | 7.6 | -3.7 | 1.4 | 2.7 | 123.2 | 30.7 |
| (HLLS, 10,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -114.0 | 9.4 | -1.0 | 1.3 | 2.7 | 138.4 | 45.9 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -104.5 | 9.4 | -6.1 | 1.3 | 2.7 | 123.8 | 31.3 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -102.2 | 9.4 | -4.4 | 1.3 | 2.7 | 123.2 | 30.7 |
| (HLLS, 10,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 10,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 10KM SITE 53

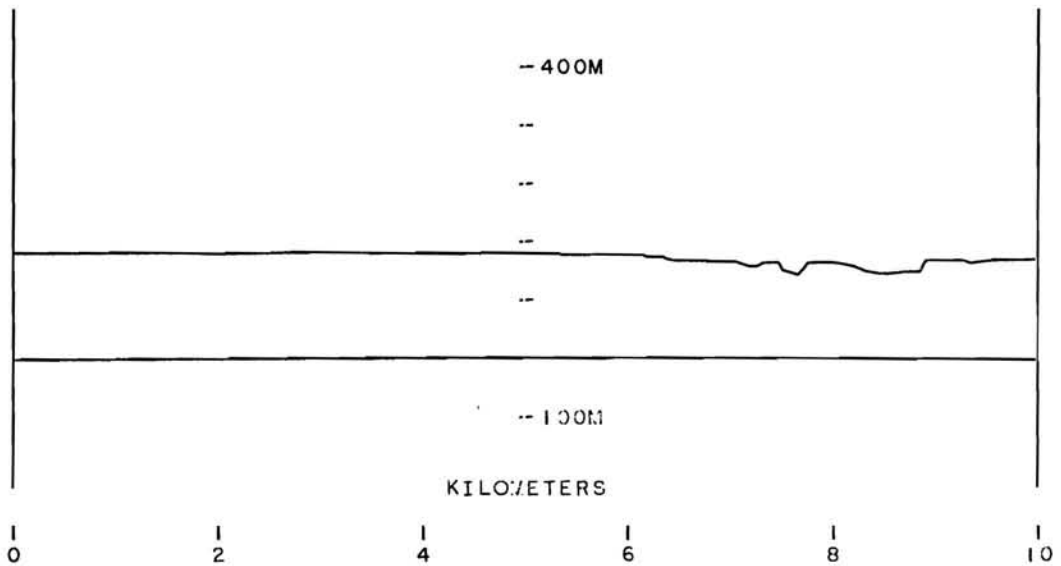
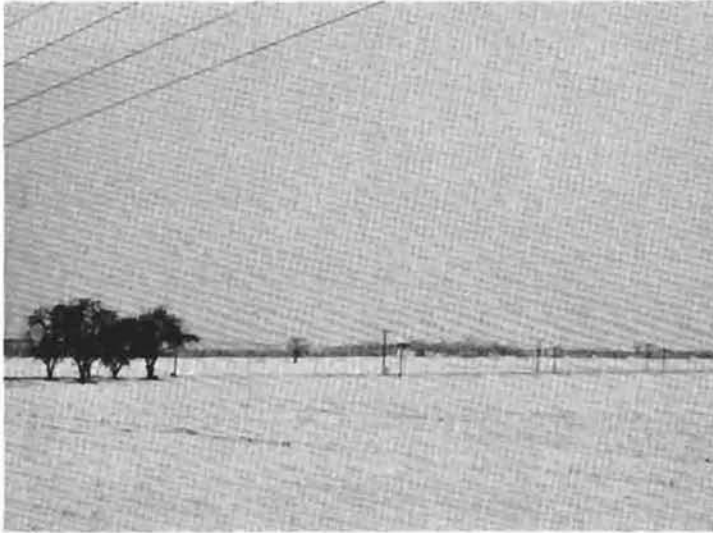
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

20MHZ
3.68

50MHZ
4.24

100MHZ
3.96



OHIO HILLS H= 10KM SITE 53

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-19-64

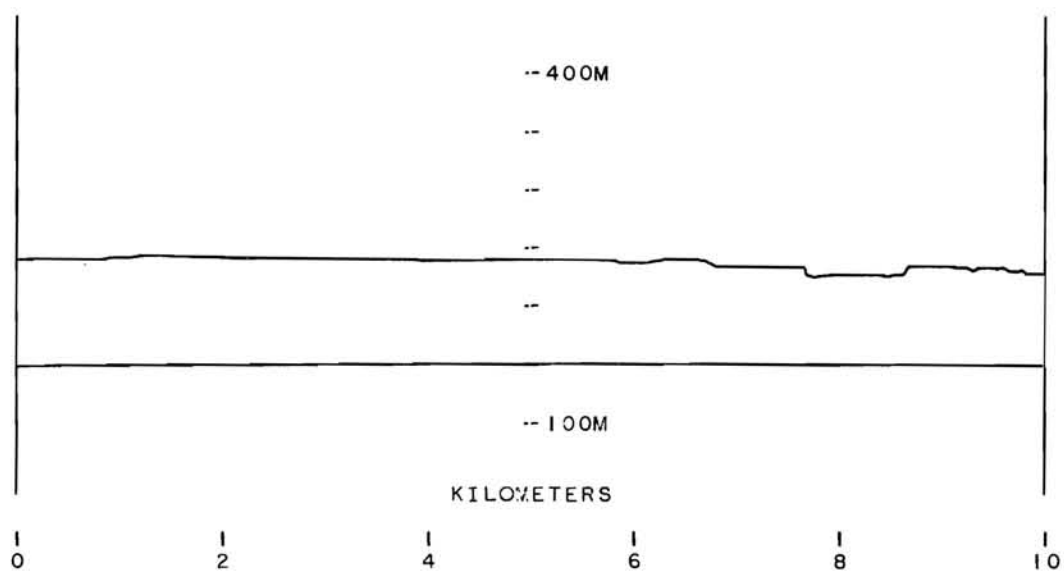
15FT PHONE LINES ON SOUTH SIDE OF ROAD, 25FT PHONE LINES ON NORTH.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 22.8 | -116.2 | | -10.4 | | 0.0 | 128.6 | 50.1 |
| (HLLS, 10, 20,V,V,AV,1) | 22.8 | -114.7 | | -10.4 | | 0.0 | 127.1 | 48.7 |
| (HLLS, 10, 20,V,V,AH,1) | 22.8 | -114.7 | | -10.4 | | 0.0 | 127.1 | 48.7 |
| (HLLS, 10, 50,V,V, P,1) | 16.4 | -125.9 | | -10.0 | | 0.8 | 131.5 | 45.0 |
| (HLLS, 10, 50,V,V, P,2) | 16.4 | -122.2 | | -5.2 | | 0.9 | 132.5 | 46.1 |
| (HLLS, 10, 50,V,V,AV,1) | 16.4 | -126.4 | | -10.0 | | 0.8 | 132.0 | 45.5 |
| (HLLS, 10, 50,V,V,AV,2) | 16.4 | -124.3 | | -5.2 | | 0.9 | 134.6 | 48.2 |
| (HLLS, 10, 50,V,V,AH,1) | 16.4 | -125.9 | | -10.0 | | 0.8 | 131.5 | 45.0 |
| (HLLS, 10, 50,V,V,AH,2) | 16.4 | -124.8 | | -5.2 | | 0.9 | 135.1 | 48.7 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -116.9 | 7.6 | -6.5 | 1.4 | 2.7 | 133.9 | 41.4 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -110.8 | 7.6 | -1.5 | 1.4 | 2.7 | 132.8 | 40.4 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -108.4 | 7.6 | -4.0 | 1.4 | 2.7 | 127.9 | 35.4 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -114.0 | 7.6 | -6.5 | 1.4 | 2.7 | 131.0 | 38.6 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -108.9 | 7.6 | -1.5 | 1.4 | 2.7 | 130.9 | 38.4 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -107.2 | 7.6 | -4.0 | 1.4 | 2.7 | 126.7 | 34.2 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -116.8 | 7.6 | -6.5 | 1.4 | 2.7 | 133.8 | 41.4 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -109.8 | 7.6 | -1.5 | 1.4 | 2.7 | 131.8 | 39.4 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -107.6 | 7.6 | -4.0 | 1.4 | 2.7 | 127.1 | 34.7 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -114.7 | 9.4 | -1.5 | 1.3 | 2.7 | 138.6 | 46.1 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -112.9 | 9.4 | -6.0 | 1.3 | 2.7 | 132.3 | 39.8 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -110.8 | 9.4 | -4.5 | 1.3 | 2.7 | 131.7 | 39.3 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -115.0 | 9.4 | -1.5 | 1.3 | 2.7 | 138.9 | 46.4 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -113.5 | 9.4 | -6.0 | 1.3 | 2.7 | 132.9 | 40.4 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -112.4 | 9.4 | -4.5 | 1.3 | 2.7 | 133.3 | 40.8 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -112.8 | 9.4 | -1.5 | 1.3 | 2.7 | 136.7 | 44.3 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -109.4 | 9.4 | -6.0 | 1.3 | 2.7 | 128.8 | 36.3 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -111.0 | 9.4 | -4.5 | 1.3 | 2.7 | 131.9 | 39.4 |

OHIO HILLS B= 10KM SITE 54
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 10KM SITE 54

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-14-64

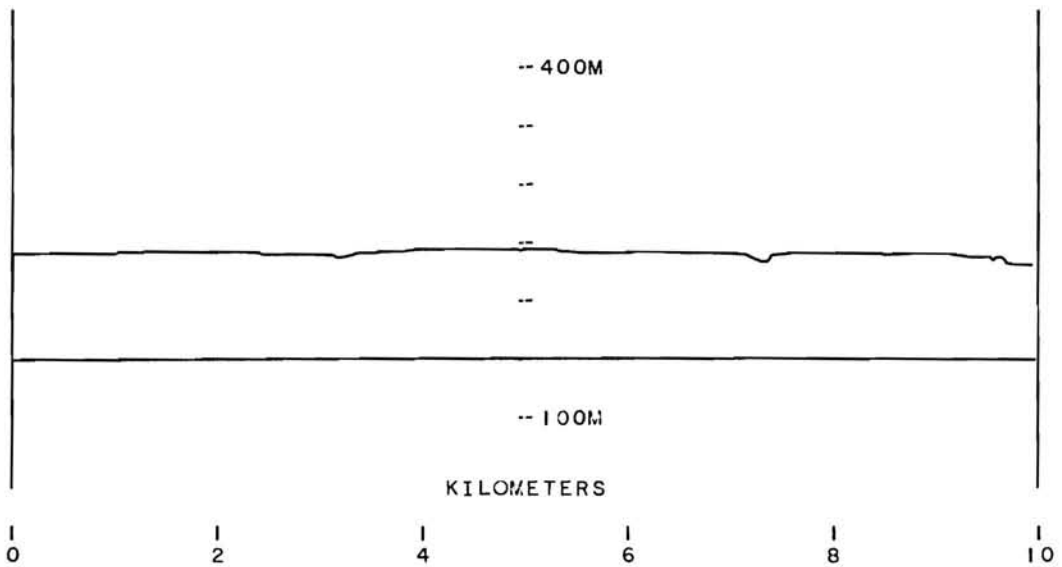
10FT HILL 60FT AHEAD WITH 30 TO 60FT TREE-COVER, BRUSH AND TREES ON OTHER SIDE EXTENDING .2MI, PHONE LINES 30FT AHEAD RIGHT, 35FT ELECTRIC LINES 50FT AHEAD RIGHT. LOWLAND WITH .2MI OF LOW TREE-COVER, UPHILL ROAD FOR .1MI ON RIGHT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 23.5 | -109.4 | | -5.0 | | 0.0 | 127.9 | 49.4 |
| (HLLS, 10, 20,V,V,AV,1) | 23.5 | -109.4 | | -5.0 | | 0.0 | 127.9 | 49.4 |
| (HLLS, 10, 20,V,V,AH,1) | 23.5 | -108.1 | | -5.0 | | 0.0 | 126.6 | 48.2 |
| (HLLS, 10, 50,V,V, P,1) | 17.1 | -135.4 | | -1.4 | | 0.8 | 150.3 | 63.8 |
| (HLLS, 10, 50,V,V, P,2) | 17.1 | -123.0 | | -9.0 | | 0.9 | 130.2 | 43.8 |
| (HLLS, 10, 50,V,V,AV,1) | 17.1 | -118.4 | | -1.4 | | 0.8 | 133.3 | 46.8 |
| (HLLS, 10, 50,V,V,AV,2) | 17.1 | -118.4 | | -9.0 | | 0.9 | 125.6 | 39.1 |
| (HLLS, 10, 50,V,V,AH,1) | 17.1 | -118.1 | | -1.4 | | 0.8 | 133.0 | 46.6 |
| (HLLS, 10, 50,V,V,AH,2) | 17.1 | -123.2 | | -9.0 | | 0.9 | 130.4 | 43.9 |
| (HLLS, 10,100,V,V, P,3) | 20.0 | -120.0 | 7.6 | -0.8 | 1.4 | 2.7 | 142.7 | 50.3 |
| (HLLS, 10,100,V,V, P,6) | 20.0 | -118.7 | 7.6 | -2.2 | 1.4 | 2.7 | 140.0 | 47.6 |
| (HLLS, 10,100,V,V, P,9) | 20.0 | -118.7 | 7.6 | -2.0 | 1.4 | 2.7 | 140.2 | 47.8 |
| (HLLS, 10,100,V,V,AV,3) | 20.0 | -106.6 | 7.6 | -0.8 | 1.4 | 2.7 | 129.3 | 36.9 |
| (HLLS, 10,100,V,V,AV,6) | 20.0 | -103.9 | 7.6 | -2.2 | 1.4 | 2.7 | 125.2 | 32.7 |
| (HLLS, 10,100,V,V,AV,9) | 20.0 | -104.1 | 7.6 | -2.0 | 1.4 | 2.7 | 125.6 | 33.2 |
| (HLLS, 10,100,V,V,AH,3) | 20.0 | -129.1 | 7.6 | -0.8 | 1.4 | 2.7 | 142.8 | 50.4 |
| (HLLS, 10,100,V,V,AH,6) | 20.0 | -112.9 | 7.6 | -2.2 | 1.4 | 2.7 | 134.2 | 41.8 |
| (HLLS, 10,100,V,V,AH,9) | 20.0 | -106.6 | 7.6 | -2.0 | 1.4 | 2.7 | 128.1 | 35.7 |
| (HLLS, 10,100,H,H, P,3) | 20.0 | -118.7 | 9.4 | -4.8 | 1.3 | 2.7 | 139.3 | 46.9 |
| (HLLS, 10,100,H,H, P,6) | 20.0 | -115.7 | 9.4 | -2.6 | 1.3 | 2.7 | 138.5 | 46.1 |
| (HLLS, 10,100,H,H, P,9) | 20.0 | -112.9 | 9.4 | -3.2 | 1.3 | 2.7 | 135.1 | 42.6 |
| (HLLS, 10,100,H,H,AV,3) | 20.0 | -113.6 | 9.4 | -4.8 | 1.3 | 2.7 | 134.2 | 41.8 |
| (HLLS, 10,100,H,H,AV,6) | 20.0 | -111.9 | 9.4 | -2.6 | 1.3 | 2.7 | 134.7 | 42.3 |
| (HLLS, 10,100,H,H,AV,9) | 20.0 | -106.1 | 9.4 | -3.2 | 1.3 | 2.7 | 128.3 | 35.9 |
| (HLLS, 10,100,H,H,AH,3) | 20.0 | -111.0 | 9.4 | -4.8 | 1.3 | 2.7 | 131.6 | 39.2 |
| (HLLS, 10,100,H,H,AH,6) | 20.0 | -109.4 | 9.4 | -2.6 | 1.3 | 2.7 | 132.2 | 39.8 |
| (HLLS, 10,100,H,H,AH,9) | 20.0 | -104.5 | 9.4 | -3.2 | 1.3 | 2.7 | 126.7 | 34.2 |

OHIO HILLS B= 10KM SITE 55
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 10KM SITE 55

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-14-64

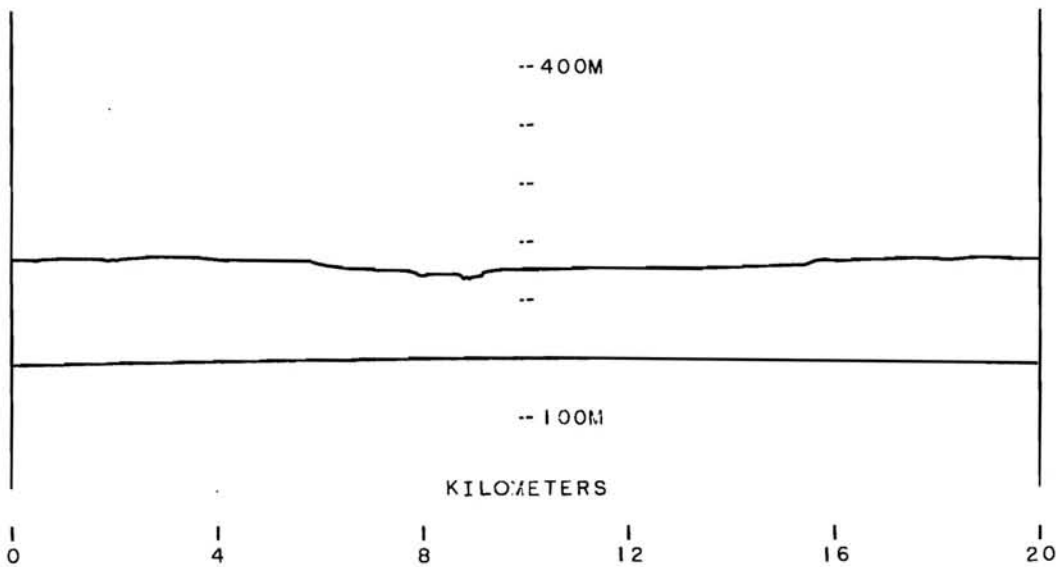
HILLRISE .2MI AHEAD WITH 40 TO 60FT TREE-COVER, GOING FOR .2MI.
SCATTERED TREES .2MI ON RIGHT AND LEFT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|--------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 10, 20,V,V, P,1) | 23.3 | -117.9 | | -12.9 | | 0.0 | 128.3 | 49.8 |
| (HLLS, 10, 20,V,V,AV,1) | 23.3 | -115.8 | | -12.9 | | 0.0 | 126.2 | 47.8 |
| (HLLS, 10, 20,V,V,AH,1) | 23.3 | -116.2 | | -12.9 | | 0.0 | 126.6 | 48.2 |
| (HLLS, 10, 50,V,V, P,1) | 16.8 | -126.4 | | -8.3 | | 0.8 | 134.1 | 47.6 |
| (HLLS, 10, 50,V,V, P,2) | 16.8 | -119.2 | | -5.5 | | 0.9 | 129.6 | 43.1 |
| (HLLS, 10, 50,V,V,AV,1) | 16.8 | -126.1 | | -8.3 | | 0.8 | 133.8 | 47.4 |
| (HLLS, 10, 50,V,V,AV,2) | 16.8 | -118.9 | | -5.5 | | 0.9 | 129.3 | 42.8 |
| (HLLS, 10, 50,V,V,AH,1) | 16.8 | -123.9 | | -8.3 | | 0.8 | 131.6 | 45.1 |
| (HLLS, 10, 50,V,V,AH,2) | 16.8 | -117.9 | | -5.5 | | 0.9 | 128.3 | 41.8 |
| (HLLS, 10, 100,V,V, P,3) | 20.0 | -122.2 | 7.6 | -16.3 | 1.4 | 2.7 | 129.4 | 36.9 |
| (HLLS, 10, 100,V,V, P,6) | 20.0 | -114.0 | 7.6 | -6.5 | 1.4 | 2.7 | 131.0 | 38.6 |
| (HLLS, 10, 100,V,V, P,9) | 20.0 | -111.9 | 7.6 | -6.5 | 1.4 | 2.7 | 128.9 | 36.4 |
| (HLLS, 10, 100,V,V,AV,3) | 20.0 | -116.2 | 7.6 | -16.3 | 1.4 | 2.7 | 123.4 | 30.9 |
| (HLLS, 10, 100,V,V,AV,6) | 20.0 | -111.9 | 7.6 | -6.5 | 1.4 | 2.7 | 128.9 | 36.4 |
| (HLLS, 10, 100,V,V,AV,9) | 20.0 | -109.8 | 7.6 | -6.5 | 1.4 | 2.7 | 126.8 | 34.3 |
| (HLLS, 10, 100,V,V,AH,3) | 20.0 | -118.9 | 7.6 | -16.3 | 1.4 | 2.7 | 126.1 | 33.6 |
| (HLLS, 10, 100,V,V,AH,6) | 20.0 | -112.9 | 7.6 | -6.5 | 1.4 | 2.7 | 129.9 | 37.4 |
| (HLLS, 10, 100,V,V,AH,9) | 20.0 | -111.0 | 7.6 | -6.5 | 1.4 | 2.7 | 128.0 | 35.6 |
| (HLLS, 10, 100,H,H, P,3) | 20.0 | -117.0 | 9.4 | -5.7 | 1.3 | 2.7 | 136.7 | 44.3 |
| (HLLS, 10, 100,H,H, P,6) | 20.0 | -109.8 | 9.4 | -4.4 | 1.3 | 2.7 | 130.8 | 38.4 |
| (HLLS, 10, 100,H,H, P,9) | 20.0 | -107.5 | 9.4 | -5.2 | 1.3 | 2.7 | 127.7 | 35.2 |
| (HLLS, 10, 100,H,H,AV,3) | 20.0 | -116.2 | 9.4 | -5.7 | 1.3 | 2.7 | 135.9 | 43.4 |
| (HLLS, 10, 100,H,H,AV,6) | 20.0 | -108.7 | 9.4 | -4.4 | 1.3 | 2.7 | 129.7 | 37.3 |
| (HLLS, 10, 100,H,H,AV,9) | 20.0 | -106.4 | 9.4 | -5.2 | 1.3 | 2.7 | 126.6 | 34.1 |
| (HLLS, 10, 100,H,H,AH,3) | 20.0 | -114.0 | 9.4 | -5.7 | 1.3 | 2.7 | 133.7 | 41.3 |
| (HLLS, 10, 100,H,H,AH,6) | 20.0 | -108.7 | 9.4 | -4.4 | 1.3 | 2.7 | 129.7 | 37.3 |
| (HLLS, 10, 100,H,H,AH,9) | 20.0 | -106.9 | 9.4 | -5.2 | 1.3 | 2.7 | 127.1 | 34.6 |

OHIO HILLS B= 20KM SITE 51
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 20KM SITE 51

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-20-64

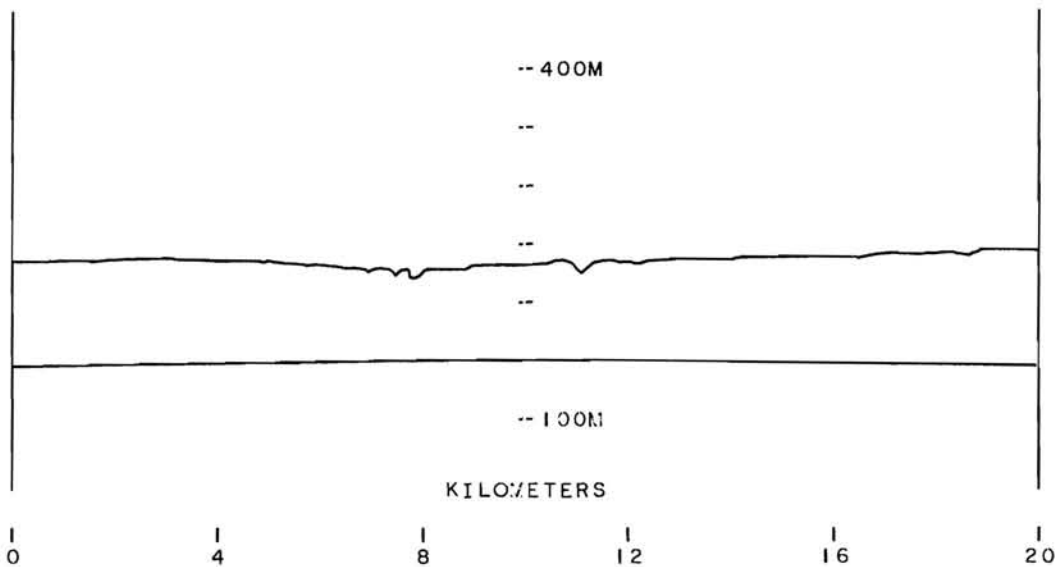
HIGH TENSION LINES .2MI AHEAD, SINGLE PHONE LINE NORTH OF ROAD.
CLEAR FIELDS NORTH AND SOUTH.

| (T,R,F,P(T),P(P),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 19.0 | -111.7 | | -5.1 | | 0.0 | 125.6 | 41.1 |
| (HLLS, 20, 20,V,V,AV,1) | 19.0 | -111.9 | | -5.1 | | 0.0 | 125.8 | 41.3 |
| (HLLS, 20, 20,V,V,AH,1) | 19.0 | -111.9 | | -5.1 | | 0.0 | 125.8 | 41.3 |
| (HLLS, 20, 50,V,V, P,1) | 20.3 | -125.6 | | -3.7 | | 0.8 | 141.4 | 48.9 |
| (HLLS, 20, 50,V,V, P,2) | 20.3 | -129.0 | | -8.7 | | 0.9 | 139.7 | 47.2 |
| (HLLS, 20, 50,V,V,AV,1) | 20.3 | -124.3 | | -3.7 | | 0.8 | 140.1 | 47.6 |
| (HLLS, 20, 50,V,V,AV,2) | 20.3 | -134.0 | | -8.7 | | 0.9 | 144.7 | 52.2 |
| (HLLS, 20, 50,V,V,AH,1) | 20.3 | -124.3 | | -3.7 | | 0.8 | 140.1 | 47.6 |
| (HLLS, 20, 50,V,V,AH,2) | 20.3 | -134.0 | | -8.7 | | 0.9 | 144.7 | 52.2 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -132.4 | 7.6 | -6.6 | 1.4 | 2.7 | 149.3 | 50.8 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -126.0 | 7.6 | -3.1 | 1.4 | 2.7 | 146.4 | 47.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -121.9 | 7.6 | -3.0 | 1.4 | 2.7 | 142.4 | 43.9 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -129.8 | 7.6 | -6.6 | 1.4 | 2.7 | 146.7 | 48.2 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -123.6 | 7.6 | -3.1 | 1.4 | 2.7 | 144.0 | 45.5 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -121.0 | 7.6 | -3.0 | 1.4 | 2.7 | 141.5 | 43.0 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -124.8 | 7.6 | -6.6 | 1.4 | 2.7 | 146.7 | 48.2 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -123.6 | 7.6 | -3.1 | 1.4 | 2.7 | 144.0 | 45.5 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -121.0 | 7.6 | -3.0 | 1.4 | 2.7 | 141.5 | 43.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | -6.5 | 1.3 | 2.7 | 153.6 | 55.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -128.1 | 9.4 | -3.2 | 1.3 | 2.7 | 150.3 | 51.8 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -124.5 | 9.4 | -3.6 | 1.3 | 2.7 | 146.3 | 47.8 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -129.8 | 9.4 | -6.5 | 1.3 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -121.7 | 9.4 | -3.2 | 1.3 | 2.7 | 143.9 | 45.4 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -119.5 | 9.4 | -3.6 | 1.3 | 2.7 | 141.3 | 42.8 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -124.8 | 9.4 | -6.5 | 1.3 | 2.7 | 148.7 | 50.2 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -121.7 | 9.4 | -3.2 | 1.3 | 2.7 | 143.9 | 45.4 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -119.5 | 9.4 | -3.6 | 1.3 | 2.7 | 141.3 | 42.8 |

OHIO HILLS B= 20KM SITE 52
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 20KM SITE 52

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-20-64

30FT TREES ON NORTH SIDE OF ROAD, ALSO 30FT POWER LINES. 15FT PHONE
PHONE LINES ON SOUTH SIDE.

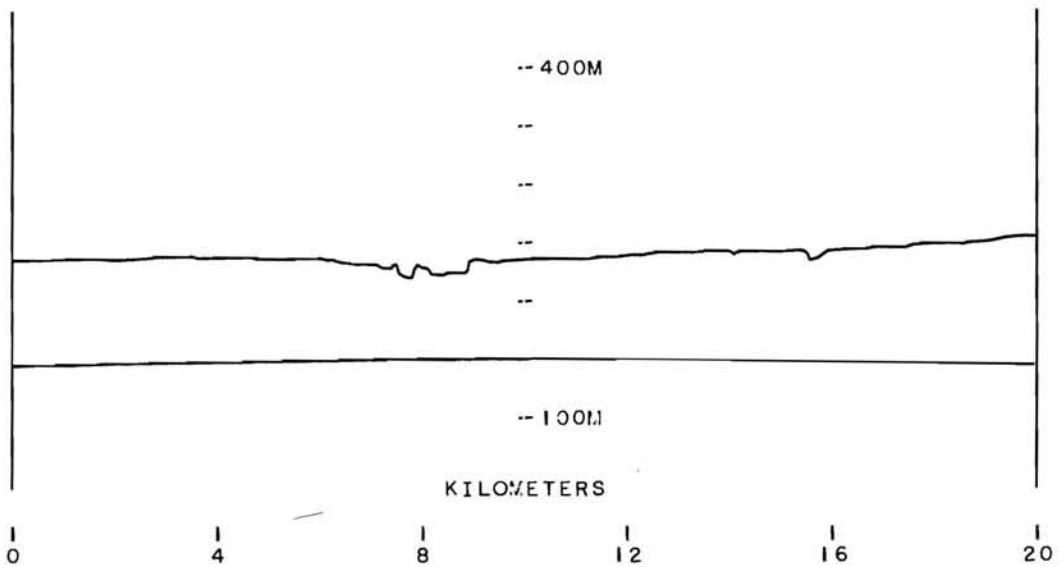
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 21.6 | -117.9 | | -5.3 | | 0.0 | 134.2 | 49.7 |
| (HLLS, 20, 20,V,V,AV,1) | 21.6 | -118.4 | | -5.3 | | 0.0 | 134.7 | 50.2 |
| (HLLS, 20, 20,V,V,AH,1) | 21.6 | -117.9 | | -5.3 | | 0.0 | 134.2 | 49.7 |
| (HLLS, 20, 50,V,V, P,1) | 16.2 | -129.4 | | -7.0 | | 0.8 | 137.8 | 45.3 |
| (HLLS, 20, 50,V,V, P,2) | 16.2 | -135.4 | | -5.3 | | 0.9 | 145.4 | 52.9 |
| (HLLS, 20, 50,V,V,AV,1) | 16.2 | -127.5 | | -7.0 | | 0.8 | 135.9 | 43.4 |
| (HLLS, 20, 50,V,V,AV,2) | 16.2 | -131.9 | | -5.3 | | 0.9 | 141.9 | 49.4 |
| (HLLS, 20, 50,V,V,AH,1) | 16.2 | -126.9 | | -7.0 | | 0.8 | 135.3 | 42.8 |
| (HLLS, 20, 50,V,V,AH,2) | 16.2 | -131.0 | | -5.3 | | 0.9 | 141.0 | 48.5 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -129.8 | 7.6 | -6.1 | 1.4 | 2.7 | 147.2 | 48.7 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -126.4 | 7.6 | -3.3 | 1.4 | 2.7 | 146.6 | 48.1 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -121.4 | 7.6 | -5.9 | 1.4 | 2.7 | 139.0 | 40.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -127.5 | 7.6 | -6.1 | 1.4 | 2.7 | 144.9 | 46.4 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -121.7 | 7.6 | -3.3 | 1.4 | 2.7 | 141.9 | 43.4 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -119.5 | 7.6 | -5.9 | 1.4 | 2.7 | 137.1 | 38.6 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -131.4 | 7.6 | -6.1 | 1.4 | 2.7 | 148.8 | 50.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -124.5 | 7.6 | -3.3 | 1.4 | 2.7 | 144.7 | 46.2 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -121.2 | 7.6 | -5.9 | 1.4 | 2.7 | 138.8 | 40.3 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -132.9 | 9.4 | -6.7 | 1.3 | 2.7 | 151.6 | 53.1 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -121.2 | 9.4 | -6.2 | 1.3 | 2.7 | 140.4 | 41.9 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -115.8 | 9.4 | -6.7 | 1.3 | 2.7 | 134.5 | 36.0 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -127.5 | 9.4 | -6.7 | 1.3 | 2.7 | 146.2 | 47.7 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -117.0 | 9.4 | -6.2 | 1.3 | 2.7 | 136.2 | 37.7 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -112.9 | 9.4 | -6.7 | 1.3 | 2.7 | 131.6 | 33.1 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -126.1 | 9.4 | -6.7 | 1.3 | 2.7 | 144.8 | 46.3 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -120.4 | 9.4 | -6.2 | 1.3 | 2.7 | 139.6 | 41.1 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -117.0 | 9.4 | -6.7 | 1.3 | 2.7 | 135.7 | 37.2 |

OHIO HILLS B= 20KM SITE 53

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 20KM SITE 53

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-19-64

NORTH-SOUTH LINE OF 60FT TREES 300FT WEST, 20FT PHONE LINES ON WEST SIDE OF ROAD, 30FT POWER LINES ON EAST SIDE, OPEN FIELD TO EAST.

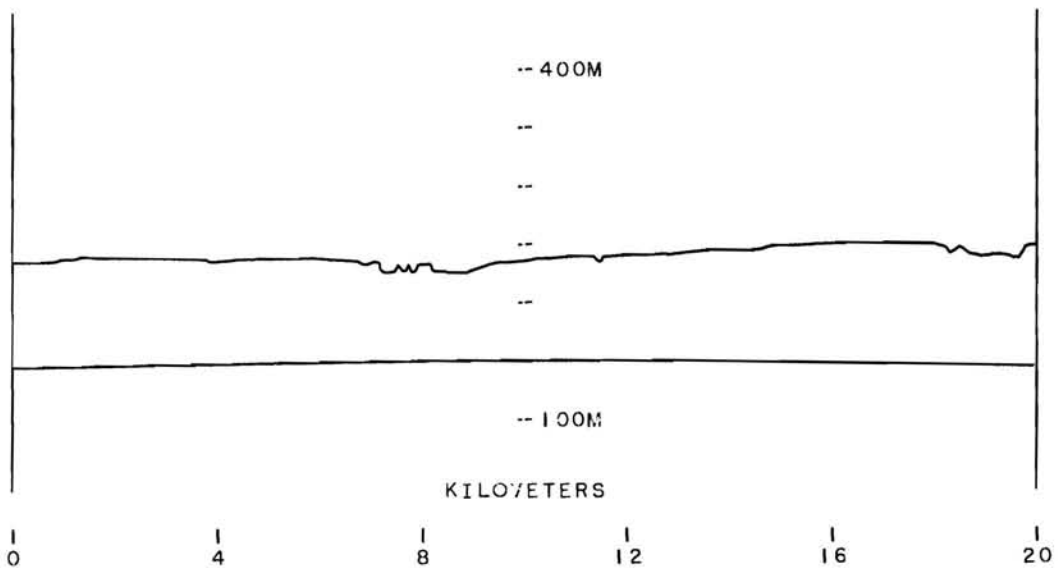
| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 22.8 | -121.0 | | -5.3 | | 0.0 | 138.5 | 54.0 |
| (HLLS, 20, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 20,V,V,ΔH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V, P,1) | 16.4 | -132.1 | | -4.0 | | 0.8 | 143.7 | 51.2 |
| (HLLS, 20, 50,V,V, P,2) | 16.4 | -133.5 | | -8.3 | | 0.9 | 140.7 | 48.2 |
| (HLLS, 20, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,ΔH,1) | * | * | | * | | * | * | * |
| (HLLS, 20, 50,V,V,ΔH,2) | * | * | | * | | * | * | * |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -123.4 | 7.6 | -2.5 | 1.4 | 2.7 | 144.4 | 45.9 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -117.9 | 7.6 | -2.0 | 1.4 | 2.7 | 139.4 | 40.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -117.0 | 7.6 | -1.8 | 1.4 | 2.7 | 138.7 | 40.2 |
| (HLLS, 20,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,ΔH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,ΔH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,V,V,ΔH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -123.9 | 9.4 | -3.4 | 1.3 | 2.7 | 145.9 | 47.4 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -114.4 | 9.4 | -3.2 | 1.3 | 2.7 | 136.6 | 38.1 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -112.4 | 9.4 | -3.7 | 1.3 | 2.7 | 134.1 | 35.6 |
| (HLLS, 20,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,ΔH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,ΔH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 20,100,H,H,ΔH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

OHIO HILLS B= 20KM SITE 54
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 20KM SITE 54

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-13-64

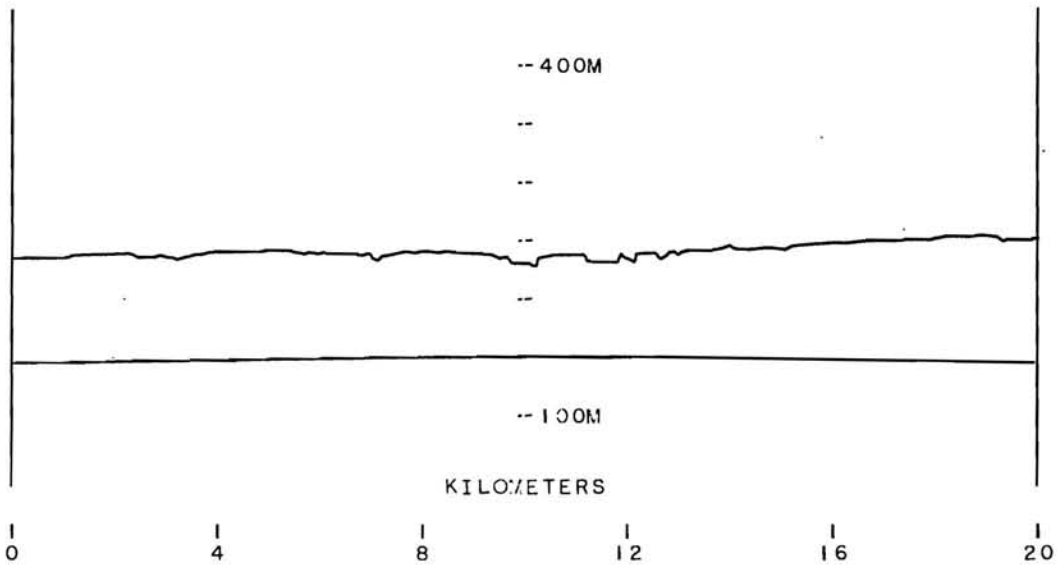
25FT ELECTRIC LINE 36FT AHEAD ALONG ROAD, BRUSH AT 150FT, 25 TO 60FT
WOODS .2MI AHEAD TO HORIZON. BUILDINGS .1MI RIGHT, WOODS .2MI LEFT,
20FT PHONE LINES BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 23.5 | -118.9 | | -5.0 | | 0.0 | 137.4 | 52.9 |
| (HLLS, 20, 20,V,V,AV,1) | 23.5 | -119.9 | | -5.0 | | 0.0 | 138.4 | 53.9 |
| (HLLS, 20, 20,V,V,AH,1) | 23.5 | -120.1 | | -5.0 | | 0.0 | 138.6 | 54.1 |
| (HLLS, 20, 50,V,V, P,1) | 17.1 | -127.5 | | -1.4 | | 0.8 | 142.4 | 49.9 |
| (HLLS, 20, 50,V,V, P,2) | 17.1 | -131.0 | | -9.0 | | 0.9 | 138.2 | 45.7 |
| (HLLS, 20, 50,V,V,AV,1) | 17.1 | -129.4 | | -1.4 | | 0.8 | 144.3 | 51.8 |
| (HLLS, 20, 50,V,V,AV,2) | 17.1 | -129.0 | | -9.0 | | 0.9 | 136.2 | 43.7 |
| (HLLS, 20, 50,V,V,AH,1) | 17.1 | -132.9 | | -1.4 | | 0.8 | 147.8 | 55.3 |
| (HLLS, 20, 50,V,V,AH,2) | 17.1 | -132.9 | | -9.0 | | 0.9 | 140.1 | 47.6 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -131.4 | 7.6 | -0.6 | 1.4 | 2.7 | 154.3 | 55.8 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -123.0 | 7.6 | -2.1 | 1.4 | 2.7 | 144.4 | 45.9 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -118.9 | 7.6 | -1.9 | 1.4 | 2.7 | 140.5 | 42.0 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -124.9 | 7.6 | -0.6 | 1.4 | 2.7 | 147.8 | 49.3 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -120.7 | 7.6 | -2.1 | 1.4 | 2.7 | 142.1 | 43.6 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -117.9 | 7.6 | -1.9 | 1.4 | 2.7 | 139.5 | 41.0 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -125.9 | 7.6 | -0.6 | 1.4 | 2.7 | 148.8 | 50.3 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -119.9 | 7.6 | -2.1 | 1.4 | 2.7 | 141.3 | 42.8 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -117.9 | 7.6 | -1.9 | 1.4 | 2.7 | 139.5 | 41.0 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -125.9 | 9.4 | -0.6 | 1.3 | 2.7 | 150.7 | 52.2 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -123.0 | 9.4 | -6.5 | 1.3 | 2.7 | 141.9 | 43.4 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -117.0 | 9.4 | -4.6 | 1.3 | 2.7 | 137.8 | 39.3 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -121.2 | 9.4 | -0.6 | 1.3 | 2.7 | 146.0 | 47.5 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -117.9 | 9.4 | -6.5 | 1.3 | 2.7 | 136.8 | 38.3 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -116.2 | 9.4 | -4.6 | 1.3 | 2.7 | 137.0 | 38.5 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -120.6 | 9.4 | -0.6 | 1.3 | 2.7 | 145.4 | 46.9 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -117.9 | 9.4 | -6.5 | 1.3 | 2.7 | 136.8 | 38.3 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -115.4 | 9.4 | -4.6 | 1.3 | 2.7 | 136.2 | 37.7 |

OHIO HILLS B= 20KM SITE 55
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 20KM SITE 55

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-16-64

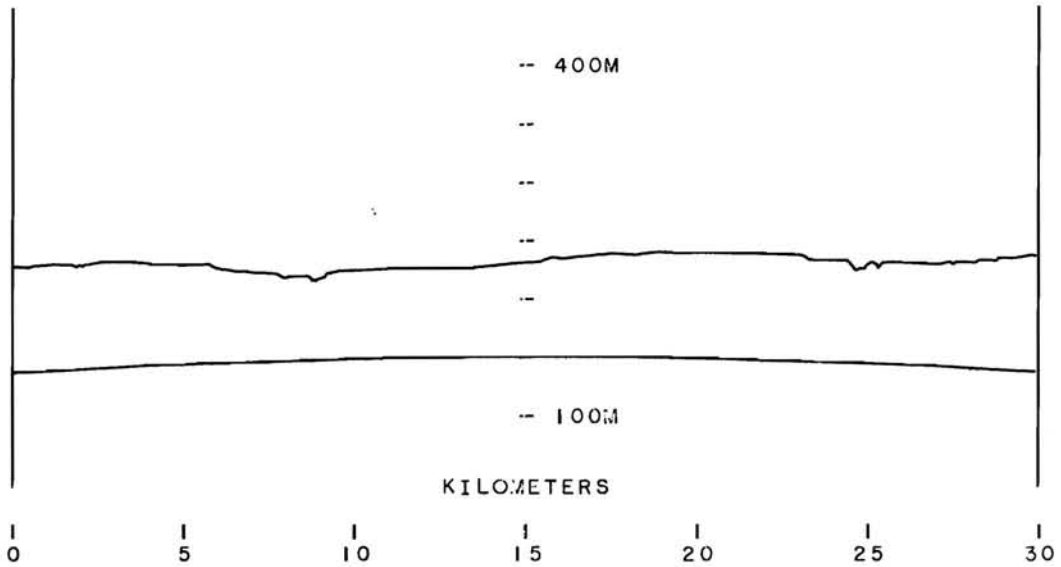
PHONE POLF 20FT AHEAD, 15FT LINES OVERHEAD TO RIGHT, ROW OF 75FT
 TREES FOLLOW ROAD FROM 100FT TO .3MI, FENCE 15FT AWAY ALONG ROAD,
 SCATTERED TREES AND WOODS .3MI FROM FENCE TO HORIZON. ROAD ON RIGHT
 SIDED WITH TREES.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 20, 20,V,V, P,1) | 23.3 | -124.3 | | -12.9 | | 0.0 | 134.7 | 50.2 |
| (HLLS, 20, 20,V,V,AV,1) | 23.3 | -122.8 | | -12.9 | | 0.0 | 133.2 | 48.7 |
| (HLLS, 20, 20,V,V,AH,1) | 23.3 | -123.9 | | -12.9 | | 0.0 | 134.3 | 49.8 |
| (HLLS, 20, 50,V,V, P,1) | 16.8 | -133.5 | | -8.3 | | 0.8 | 141.2 | 48.7 |
| (HLLS, 20, 50,V,V, P,2) | 16.8 | -129.8 | | -5.5 | | 0.9 | 140.2 | 47.7 |
| (HLLS, 20, 50,V,V,AV,1) | 16.8 | -134.0 | | -8.3 | | 0.8 | 141.7 | 49.2 |
| (HLLS, 20, 50,V,V,AV,2) | 16.8 | -129.0 | | -5.5 | | 0.9 | 139.4 | 46.9 |
| (HLLS, 20, 50,V,V,AH,1) | 16.8 | -132.9 | | -8.3 | | 0.8 | 140.6 | 48.1 |
| (HLLS, 20, 50,V,V,AH,2) | 16.8 | -128.1 | | -5.5 | | 0.9 | 138.5 | 46.0 |
| (HLLS, 20,100,V,V, P,3) | 20.0 | -127.2 | 7.6 | -16.3 | 1.4 | 2.7 | 134.4 | 35.9 |
| (HLLS, 20,100,V,V, P,6) | 20.0 | -120.1 | 7.6 | -6.5 | 1.4 | 2.7 | 137.1 | 38.6 |
| (HLLS, 20,100,V,V, P,9) | 20.0 | -118.0 | 7.6 | -6.5 | 1.4 | 2.7 | 135.0 | 36.5 |
| (HLLS, 20,100,V,V,AV,3) | 20.0 | -125.2 | 7.6 | -16.3 | 1.4 | 2.7 | 132.4 | 33.9 |
| (HLLS, 20,100,V,V,AV,6) | 20.0 | -119.5 | 7.6 | -6.5 | 1.4 | 2.7 | 136.5 | 38.0 |
| (HLLS, 20,100,V,V,AV,9) | 20.0 | -116.9 | 7.6 | -6.5 | 1.4 | 2.7 | 133.9 | 35.4 |
| (HLLS, 20,100,V,V,AH,3) | 20.0 | -128.7 | 7.6 | -16.3 | 1.4 | 2.7 | 135.9 | 37.4 |
| (HLLS, 20,100,V,V,AH,6) | 20.0 | -120.2 | 7.6 | -6.5 | 1.4 | 2.7 | 137.2 | 38.7 |
| (HLLS, 20,100,V,V,AH,9) | 20.0 | -118.4 | 7.6 | -6.5 | 1.4 | 2.7 | 135.4 | 36.9 |
| (HLLS, 20,100,H,H, P,3) | 20.0 | -127.5 | 9.4 | -5.7 | 1.3 | 2.7 | 147.2 | 48.7 |
| (HLLS, 20,100,H,H, P,6) | 20.0 | -118.9 | 9.4 | -4.4 | 1.3 | 2.7 | 139.9 | 41.4 |
| (HLLS, 20,100,H,H, P,9) | 20.0 | -116.6 | 9.4 | -5.2 | 1.3 | 2.7 | 136.8 | 38.3 |
| (HLLS, 20,100,H,H,AV,3) | 20.0 | -123.9 | 9.4 | -5.7 | 1.3 | 2.7 | 143.6 | 45.1 |
| (HLLS, 20,100,H,H,AV,6) | 20.0 | -120.7 | 9.4 | -4.4 | 1.3 | 2.7 | 141.7 | 43.2 |
| (HLLS, 20,100,H,H,AV,9) | 20.0 | -118.9 | 9.4 | -5.2 | 1.3 | 2.7 | 139.1 | 40.6 |
| (HLLS, 20,100,H,H,AH,3) | 20.0 | -123.6 | 9.4 | -5.7 | 1.3 | 2.7 | 143.3 | 44.8 |
| (HLLS, 20,100,H,H,AH,6) | 20.0 | -121.0 | 9.4 | -4.4 | 1.3 | 2.7 | 142.0 | 43.5 |
| (HLLS, 20,100,H,H,AH,9) | 20.0 | -117.2 | 9.4 | -5.2 | 1.3 | 2.7 | 137.4 | 38.9 |

OHIO HILLS B= 30KM SITE 51
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 51

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-21-64

PHONE AND POWER LINES ON NORTH SIDE OF ROAD 20, 40, AND 50FT. HIGH
TENSION TOWER 200FT NORTH. HIGH TENSION WIRES CROSS 200FT BEHIND.

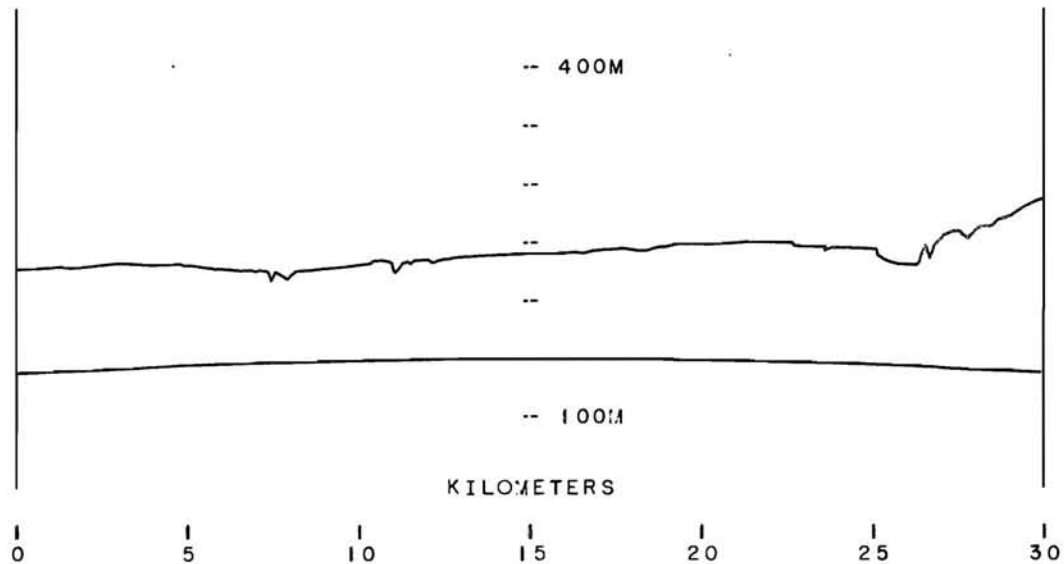
| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 19.0 | -135.4 | | -12.9 | | 0.0 | 141.5 | 53.5 |
| (HLLS, 30, 20,V,V,AV,1) | 19.0 | -124.9 | | -12.9 | | 0.0 | 131.0 | 43.0 |
| (HLLS, 30, 20,V,V,AH,1) | 19.0 | -124.9 | | -12.9 | | 0.0 | 131.0 | 43.0 |
| (HLLS, 30, 50,V,V, P,1) | 20.3 | -134.4 | | -7.4 | | 0.8 | 146.5 | 50.5 |
| (HLLS, 30, 50,V,V, P,2) | 20.3 | -129.0 | | -5.4 | | 0.9 | 143.0 | 47.0 |
| (HLLS, 30, 50,V,V,AV,1) | 20.3 | -135.4 | | -7.4 | | 0.8 | 147.5 | 51.5 |
| (HLLS, 30, 50,V,V,AV,2) | 20.3 | -131.9 | | -5.4 | | 0.9 | 145.9 | 49.9 |
| (HLLS, 30, 50,V,V,AH,1) | 20.3 | -135.4 | | -7.4 | | 0.8 | 147.5 | 51.5 |
| (HLLS, 30, 50,V,V,AH,2) | 20.3 | -131.9 | | -5.4 | | 0.9 | 145.9 | 49.9 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -134.7 | 7.6 | -9.1 | 1.4 | 2.7 | 149.1 | 47.1 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -129.4 | 7.6 | -3.7 | 1.4 | 2.7 | 149.2 | 47.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -129.4 | 7.6 | -6.7 | 1.4 | 2.7 | 146.2 | 44.2 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -133.5 | 7.6 | -9.1 | 1.4 | 2.7 | 147.9 | 45.9 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -128.7 | 7.6 | -3.7 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -126.4 | 7.6 | -6.7 | 1.4 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -133.5 | 7.6 | -9.1 | 1.4 | 2.7 | 147.9 | 45.9 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -128.7 | 7.6 | -3.7 | 1.4 | 2.7 | 148.5 | 46.5 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -126.4 | 7.6 | -6.7 | 1.4 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -137.0 | 9.4 | -4.9 | 1.3 | 2.7 | 157.5 | 55.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -131.4 | 9.4 | -5.1 | 1.3 | 2.7 | 151.7 | 49.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -128.1 | 9.4 | -5.2 | 1.3 | 2.7 | 148.3 | 46.3 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -129.4 | 9.4 | -4.9 | 1.3 | 2.7 | 149.9 | 47.9 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -5.1 | 1.3 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -127.5 | 9.4 | -5.2 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -129.4 | 9.4 | -4.9 | 1.3 | 2.7 | 149.9 | 47.9 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.7 | 9.4 | -5.1 | 1.3 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -127.5 | 9.4 | -5.2 | 1.3 | 2.7 | 147.7 | 45.7 |

OHIO HILLS B= 30KM SITE 52

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 52

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-20-64

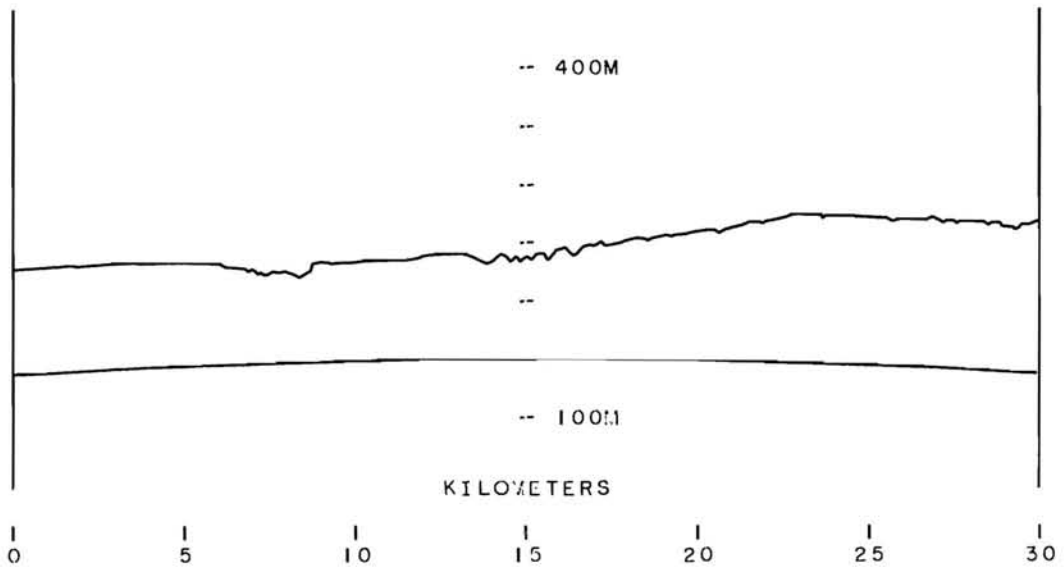
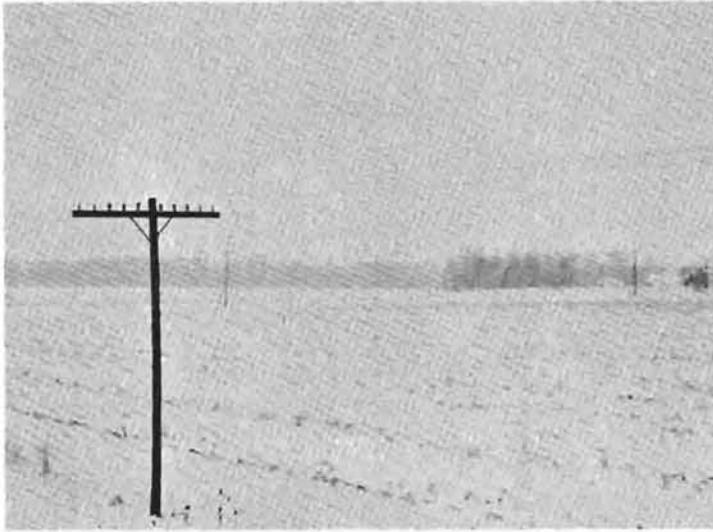
20FT PHONE AND POWER LINES ON SOUTH SIDE OF ROAD. CLEAR TO NORTH.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 21.6 | -121.4 | | -5.4 | | 0.0 | 137.6 | 49.6 |
| (HLLS, 30, 20,V,V,AV,1) | 21.6 | -122.2 | | -5.4 | | 0.0 | 138.4 | 50.4 |
| (HLLS, 30, 20,V,V,AH,1) | 21.6 | -121.4 | | -5.4 | | 0.0 | 137.6 | 49.6 |
| (HLLS, 30, 50,V,V, P,1) | 16.2 | -128.7 | | -6.2 | | 0.8 | 137.9 | 41.9 |
| (HLLS, 30, 50,V,V, P,2) | 16.2 | -131.4 | | -6.2 | | 0.9 | 140.5 | 44.5 |
| (HLLS, 30, 50,V,V,AV,1) | 16.2 | -128.7 | | -6.2 | | 0.8 | 137.9 | 41.9 |
| (HLLS, 30, 50,V,V,AV,2) | 16.2 | -131.9 | | -6.2 | | 0.9 | 141.0 | 45.0 |
| (HLLS, 30, 50,V,V,AH,1) | 16.2 | -128.1 | | -6.2 | | 0.8 | 137.3 | 41.3 |
| (HLLS, 30, 50,V,V,AH,2) | 16.2 | -131.9 | | -6.2 | | 0.9 | 141.0 | 45.0 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -131.0 | 7.6 | -8.7 | 1.4 | 2.7 | 145.8 | 43.8 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -123.9 | 7.6 | -4.2 | 1.4 | 2.7 | 143.2 | 41.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -122.4 | 7.6 | -5.4 | 1.4 | 2.7 | 140.5 | 38.5 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -129.8 | 7.6 | -8.7 | 1.4 | 2.7 | 144.6 | 42.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.1 | 7.6 | -4.2 | 1.4 | 2.7 | 143.4 | 41.4 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -121.7 | 7.6 | -5.4 | 1.4 | 2.7 | 139.8 | 37.8 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -119.9 | 7.6 | -8.7 | 1.4 | 2.7 | 134.7 | 32.7 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -114.4 | 7.6 | -4.2 | 1.4 | 2.7 | 133.7 | 31.7 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -121.0 | 7.6 | -5.4 | 1.4 | 2.7 | 139.1 | 37.1 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -126.1 | 9.4 | -9.3 | 1.3 | 2.7 | 142.2 | 40.2 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -119.2 | 9.4 | -6.3 | 1.3 | 2.7 | 138.3 | 36.3 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -117.9 | 9.4 | -6.1 | 1.3 | 2.7 | 137.2 | 35.2 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -124.9 | 9.4 | -9.3 | 1.3 | 2.7 | 141.0 | 39.0 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -117.9 | 9.4 | -6.3 | 1.3 | 2.7 | 137.0 | 35.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -115.8 | 9.4 | -6.1 | 1.3 | 2.7 | 135.1 | 33.1 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -117.9 | 9.4 | -9.3 | 1.3 | 2.7 | 134.0 | 32.0 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -109.0 | 9.4 | -6.3 | 1.3 | 2.7 | 128.1 | 26.1 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -106.1 | 9.4 | -6.1 | 1.3 | 2.7 | 125.4 | 23.4 |

OHIO HILLS B= 30KM SITE 53
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 53

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-19-64

PHONE LINES 20FT SOUTH OF ROAD. POWER LINES 30FT NORTH OF ROAD.

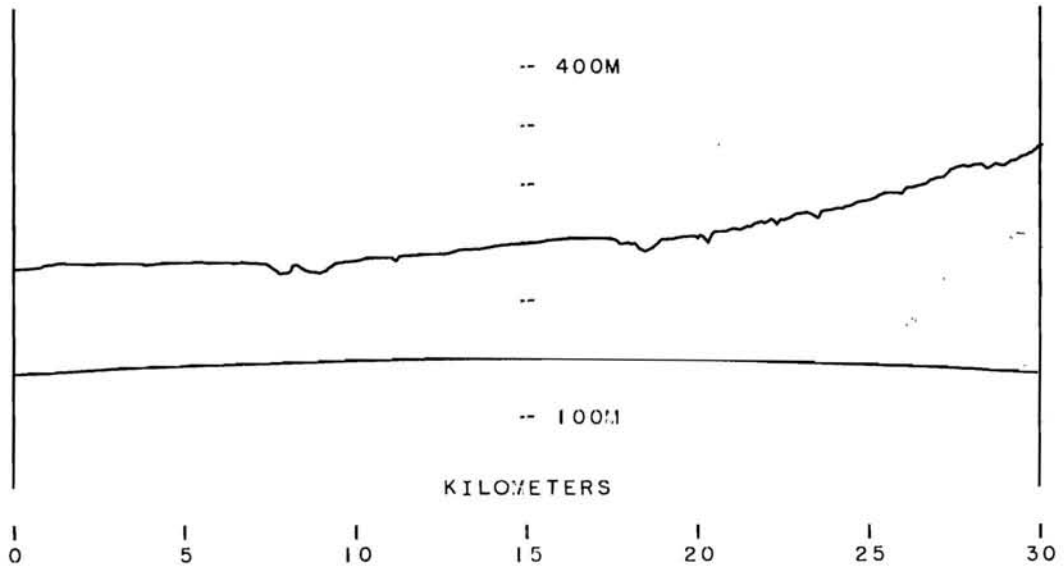
| (T,H,F,P(T),P(R),I,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 22.8 | -137.0 | | -9.6 | 0.0 | | 150.2 | 62.2 |
| (HLLS, 30, 20,V,V,AV,1) | 22.8 | -137.0 | | -9.6 | 0.0 | | 150.2 | 62.2 |
| (HLLS, 30, 20,V,V,AH,1) | 22.8 | ** | | -9.6 | 0.0 | | ** | ** |
| (HLLS, 30, 50,V,V, P,1) | 16.4 | -138.9 | | -11.3 | 0.8 | | 143.2 | 47.2 |
| (HLLS, 30, 50,V,V, P,2) | 16.4 | -138.9 | | -5.3 | 0.9 | | 149.1 | 53.1 |
| (HLLS, 30, 50,V,V,AV,1) | 16.4 | -138.9 | | -11.3 | 0.8 | | 143.2 | 47.2 |
| (HLLS, 30, 50,V,V,AV,2) | 16.4 | -138.9 | | -5.3 | 0.9 | | 149.1 | 53.1 |
| (HLLS, 30, 50,V,V,AH,1) | 16.4 | -137.9 | | -11.3 | 0.8 | | 142.2 | 46.2 |
| (HLLS, 30, 50,V,V,AH,2) | 16.4 | -137.0 | | -5.3 | 0.9 | | 147.2 | 51.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -135.8 | 7.6 | -6.1 | 1.4 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -129.8 | 7.6 | -1.1 | 1.4 | 2.7 | 152.2 | 50.2 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -127.5 | 7.6 | -3.0 | 1.4 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -135.8 | 7.6 | -6.1 | 1.4 | 2.7 | 153.2 | 51.2 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -129.8 | 7.6 | -1.1 | 1.4 | 2.7 | 152.2 | 50.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -127.5 | 7.6 | -3.0 | 1.4 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -135.4 | 7.6 | -6.1 | 1.4 | 2.7 | 152.8 | 50.8 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -129.0 | 7.6 | -1.1 | 1.4 | 2.7 | 151.4 | 49.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -127.5 | 7.6 | -3.0 | 1.4 | 2.7 | 148.0 | 46.0 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -134.7 | 9.4 | -0.6 | 1.3 | 2.7 | 159.5 | 57.5 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -128.7 | 9.4 | -6.4 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -126.4 | 9.4 | -4.3 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -134.7 | 9.4 | -0.6 | 1.3 | 2.7 | 159.5 | 57.5 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -128.7 | 9.4 | -6.4 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -126.4 | 9.4 | -4.3 | 1.3 | 2.7 | 147.5 | 45.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -132.9 | 9.4 | -0.6 | 1.3 | 2.7 | 157.7 | 55.7 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -128.2 | 9.4 | -6.4 | 1.3 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -126.6 | 9.4 | -4.3 | 1.3 | 2.7 | 147.7 | 45.7 |

** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 30KM SITE 54
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 30KM SITE 54

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-13-64

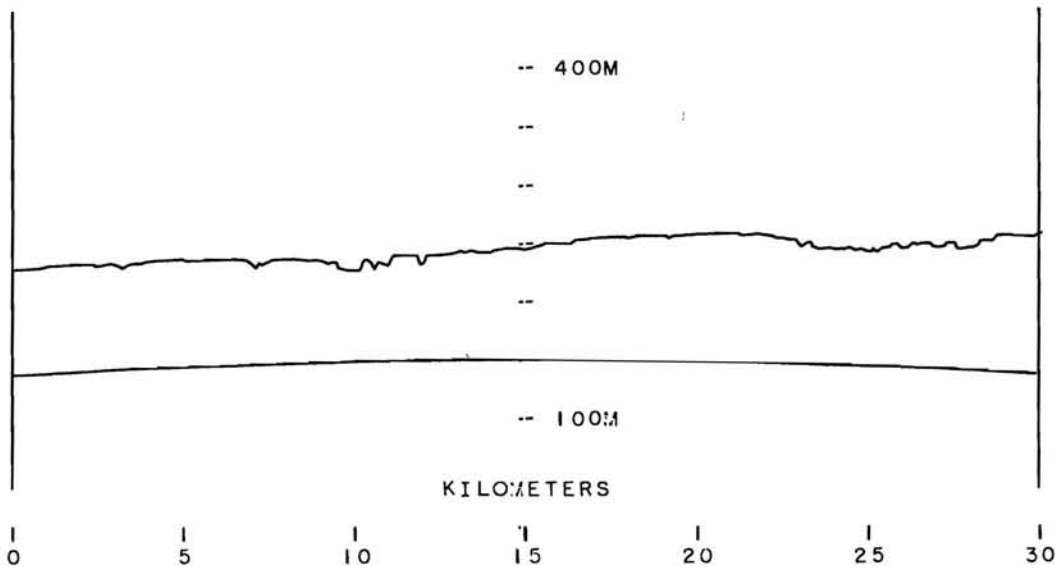
35FT LINES OVERHEAD 20FT AHEAD. SIMILAR LINES CROSS AT 300FT. LINES AND ROAD CONTINUE ON LEFT. 50FT TREES .5MI BEYOND ROAD FOR .2MI. 20 FT PHONE LINES 15FT BEHIND. LINES AND ROAD ON LEFT.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.5 | -128.4 | | -9.7 | | 0.0 | 142.2 | 54.2 |
| (HLLS, 30, 20,V,V,AV,1) | 23.5 | -130.6 | | -9.7 | | 0.0 | 144.4 | 56.4 |
| (HLLS, 30, 20,V,V,AH,1) | 23.5 | -131.4 | | -9.7 | | 0.0 | 145.2 | 57.2 |
| (HLLS, 30, 50,V,V, P,1) | 17.1 | -133.5 | | -11.0 | | 0.8 | 138.8 | 42.8 |
| (HLLS, 30, 50,V,V, P,2) | 17.1 | -127.5 | | -5.2 | | 0.9 | 138.5 | 42.5 |
| (HLLS, 30, 50,V,V,AV,1) | 17.1 | -133.5 | | -11.0 | | 0.8 | 138.8 | 42.8 |
| (HLLS, 30, 50,V,V,AV,2) | 17.1 | -127.5 | | -5.2 | | 0.9 | 138.5 | 42.5 |
| (HLLS, 30, 50,V,V,AH,1) | 17.1 | -133.5 | | -11.0 | | 0.8 | 138.8 | 42.8 |
| (HLLS, 30, 50,V,V,AH,2) | 17.1 | -127.2 | | -5.2 | | 0.9 | 138.2 | 42.2 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -129.4 | 7.6 | -6.0 | 1.4 | 2.7 | 146.9 | 44.9 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -123.2 | 7.6 | -1.2 | 1.4 | 2.7 | 145.5 | 43.5 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -120.1 | 7.6 | -3.3 | 1.4 | 2.7 | 140.3 | 38.3 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -123.9 | 7.6 | -6.0 | 1.4 | 2.7 | 141.4 | 39.4 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -124.9 | 7.6 | -1.2 | 1.4 | 2.7 | 147.2 | 45.2 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -121.4 | 7.6 | -3.3 | 1.4 | 2.7 | 141.6 | 39.6 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -129.8 | 7.6 | -6.0 | 1.4 | 2.7 | 147.3 | 45.3 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -123.7 | 7.6 | -1.2 | 1.4 | 2.7 | 146.0 | 44.0 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -121.4 | 7.6 | -3.3 | 1.4 | 2.7 | 141.6 | 39.6 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -125.2 | 9.4 | -0.7 | 1.3 | 2.7 | 149.9 | 47.9 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -118.9 | 9.4 | -6.3 | 1.3 | 2.7 | 138.0 | 36.0 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -114.7 | 9.4 | -4.3 | 1.3 | 2.7 | 135.8 | 33.8 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -123.9 | 9.4 | -0.7 | 1.3 | 2.7 | 148.6 | 46.6 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -120.1 | 9.4 | -6.3 | 1.3 | 2.7 | 139.2 | 37.2 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -115.4 | 9.4 | -4.3 | 1.3 | 2.7 | 136.5 | 34.5 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -120.1 | 9.4 | -0.7 | 1.3 | 2.7 | 144.8 | 42.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -117.4 | 9.4 | -6.3 | 1.3 | 2.7 | 136.5 | 34.5 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -116.2 | 9.4 | -4.3 | 1.3 | 2.7 | 137.3 | 35.3 |

OHIO HILLS B= 30KM SITE 55
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 30KM SITE 55

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-13-64

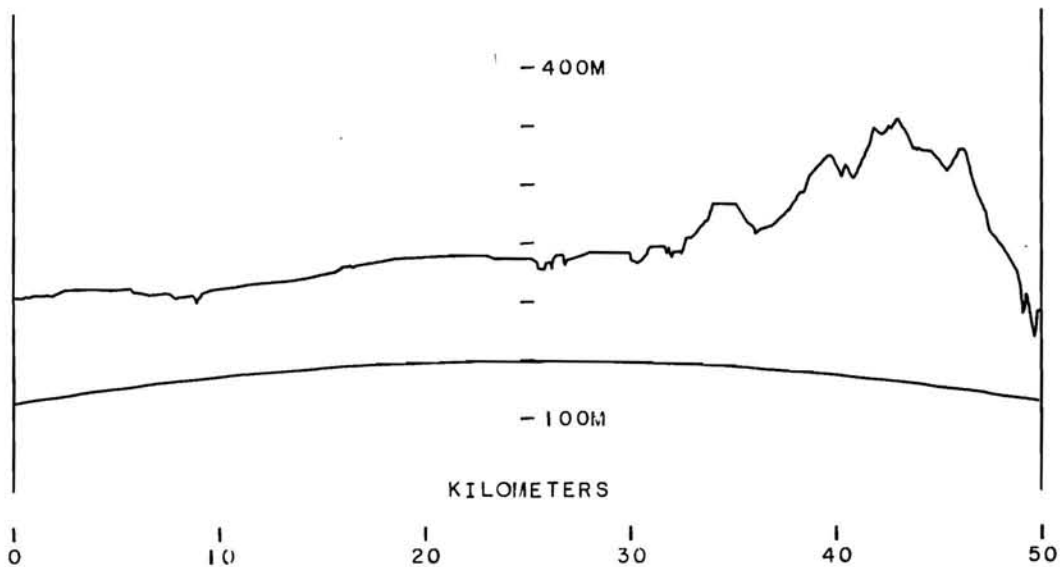
ROW OF BUSHES AND TREES ALONG ROAD AHEAD 20 TO 500FT, SCATTERED 15 TO 60FT TREES AND BRUSH .1MI BEYOND FOR .3MI. RAILROAD .15MI AHEAD, 20 FT ELECTRIC LINES OVERHEAD, 20FT AHEAD, AND RIGHT. PHONE LINE 15FT BEHIND.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 30, 20,V,V, P,1) | 23.3 | -127.5 | | -5.2 | | 0.0 | 145.6 | 57.6 |
| (HLLS, 30, 20,V,V,AV,1) | 23.3 | -128.1 | | -5.2 | | 0.0 | 146.2 | 58.2 |
| (HLLS, 30, 20,V,V,AH,1) | 23.3 | -127.5 | | -5.2 | | 0.0 | 145.6 | 57.6 |
| (HLLS, 30, 50,V,V, P,1) | 16.8 | -135.4 | | -4.2 | | 0.8 | 147.2 | 51.2 |
| (HLLS, 30, 50,V,V, P,2) | 16.8 | -134.7 | | -8.6 | | 0.9 | 142.0 | 46.0 |
| (HLLS, 30, 50,V,V,AV,1) | 16.8 | -134.7 | | -4.2 | | 0.8 | 146.5 | 50.5 |
| (HLLS, 30, 50,V,V,AV,2) | 16.8 | -134.0 | | -8.6 | | 0.9 | 141.3 | 45.3 |
| (HLLS, 30, 50,V,V,AH,1) | 16.8 | -135.4 | | -4.2 | | 0.8 | 147.2 | 51.2 |
| (HLLS, 30, 50,V,V,AH,2) | 16.8 | -134.7 | | -8.6 | | 0.9 | 142.0 | 46.0 |
| (HLLS, 30,100,V,V, P,3) | 20.0 | -138.9 | 7.6 | -7.8 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V, P,6) | 20.0 | -125.6 | 7.6 | -3.7 | 1.4 | 2.7 | 145.4 | 43.4 |
| (HLLS, 30,100,V,V, P,9) | 20.0 | -124.9 | 7.6 | -3.7 | 1.4 | 2.7 | 144.7 | 42.7 |
| (HLLS, 30,100,V,V,AV,3) | 20.0 | -131.9 | 7.6 | -7.8 | 1.4 | 2.7 | 147.6 | 45.6 |
| (HLLS, 30,100,V,V,AV,6) | 20.0 | -129.8 | 7.6 | -3.7 | 1.4 | 2.7 | 149.6 | 47.6 |
| (HLLS, 30,100,V,V,AV,9) | 20.0 | -124.1 | 7.6 | -3.7 | 1.4 | 2.7 | 143.9 | 41.9 |
| (HLLS, 30,100,V,V,AH,3) | 20.0 | -138.9 | 7.6 | -7.8 | 1.4 | 2.7 | 154.6 | 52.6 |
| (HLLS, 30,100,V,V,AH,6) | 20.0 | -125.6 | 7.6 | -3.7 | 1.4 | 2.7 | 145.4 | 43.4 |
| (HLLS, 30,100,V,V,AH,9) | 20.0 | -124.9 | 7.6 | -3.7 | 1.4 | 2.7 | 144.7 | 42.7 |
| (HLLS, 30,100,H,H, P,3) | 20.0 | -131.4 | 9.4 | -7.0 | 1.3 | 2.7 | 149.8 | 47.8 |
| (HLLS, 30,100,H,H, P,6) | 20.0 | -125.9 | 9.4 | -3.6 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H, P,9) | 20.0 | -123.7 | 9.4 | -4.1 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H,AV,3) | 20.0 | -132.9 | 9.4 | -7.0 | 1.3 | 2.7 | 151.3 | 49.3 |
| (HLLS, 30,100,H,H,AV,6) | 20.0 | -127.2 | 9.4 | -3.6 | 1.3 | 2.7 | 149.0 | 47.0 |
| (HLLS, 30,100,H,H,AV,9) | 20.0 | -123.7 | 9.4 | -4.1 | 1.3 | 2.7 | 145.0 | 43.0 |
| (HLLS, 30,100,H,H,AH,3) | 20.0 | -131.4 | 9.4 | -7.0 | 1.3 | 2.7 | 149.8 | 47.8 |
| (HLLS, 30,100,H,H,AH,6) | 20.0 | -125.9 | 9.4 | -3.6 | 1.3 | 2.7 | 147.7 | 45.7 |
| (HLLS, 30,100,H,H,AH,9) | 20.0 | -123.7 | 9.4 | -4.1 | 1.3 | 2.7 | 145.0 | 43.0 |

OHIO HILLS H= 50KM SITE 51
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS H= 50KM SITE 51

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-21-64

80FT WOODS ALL AROUND. 25FT POWER LINE ON EAST SIDE OF ROAD. POWER
LINES CROSS ROAD DIRECTLY AHEAD AND BEHIND.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(H) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 19.0 | ** | | -7.7 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | 19.0 | ** | | -7.7 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AH,1) | 19.0 | ** | | -7.7 | | 0.0 | ** | ** |
| (HLLS, 50, 50,V,V, P,1) | 20.3 | -138.4 | | -11.3 | | 0.8 | 146.6 | 46.2 |
| (HLLS, 50, 50,V,V, P,2) | 20.3 | -137.0 | | -6.1 | | 0.9 | 150.3 | 49.9 |
| (HLLS, 50, 50,V,V,AV,1) | 20.3 | -138.4 | | -11.3 | | 0.8 | 146.6 | 46.2 |
| (HLLS, 50, 50,V,V,AV,2) | 20.3 | -138.4 | | -6.1 | | 0.9 | 151.7 | 51.3 |
| (HLLS, 50, 50,V,V,AH,1) | 20.3 | -138.4 | | -11.3 | | 0.8 | 146.6 | 46.2 |
| (HLLS, 50, 50,V,V,AH,2) | 20.3 | -138.4 | | -6.1 | | 0.9 | 151.7 | 51.3 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -13.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -2.4 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | ** | 7.6 | -2.6 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -140.5 | 7.6 | -13.3 | 1.4 | 2.7 | 150.7 | 44.3 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -140.5 | 7.6 | -2.4 | 1.4 | 2.7 | 161.6 | 55.2 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -143.9 | 7.6 | -2.6 | 1.4 | 2.7 | 164.8 | 58.4 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -140.5 | 7.6 | -13.3 | 1.4 | 2.7 | 150.7 | 44.3 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -140.5 | 7.6 | -2.4 | 1.4 | 2.7 | 161.6 | 55.2 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -143.9 | 7.6 | -2.6 | 1.4 | 2.7 | 164.8 | 58.4 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -1.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | ** | 9.4 | -5.8 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -139.5 | 9.4 | -1.6 | 1.3 | 2.7 | 163.3 | 56.9 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -137.9 | 9.4 | -6.5 | 1.3 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -139.3 | 9.4 | -5.8 | 1.3 | 2.7 | 158.9 | 52.5 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -139.5 | 9.4 | -1.6 | 1.3 | 2.7 | 163.3 | 56.9 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -137.9 | 9.4 | -6.5 | 1.3 | 2.7 | 156.8 | 50.4 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -139.3 | 9.4 | -5.8 | 1.3 | 2.7 | 158.9 | 52.5 |

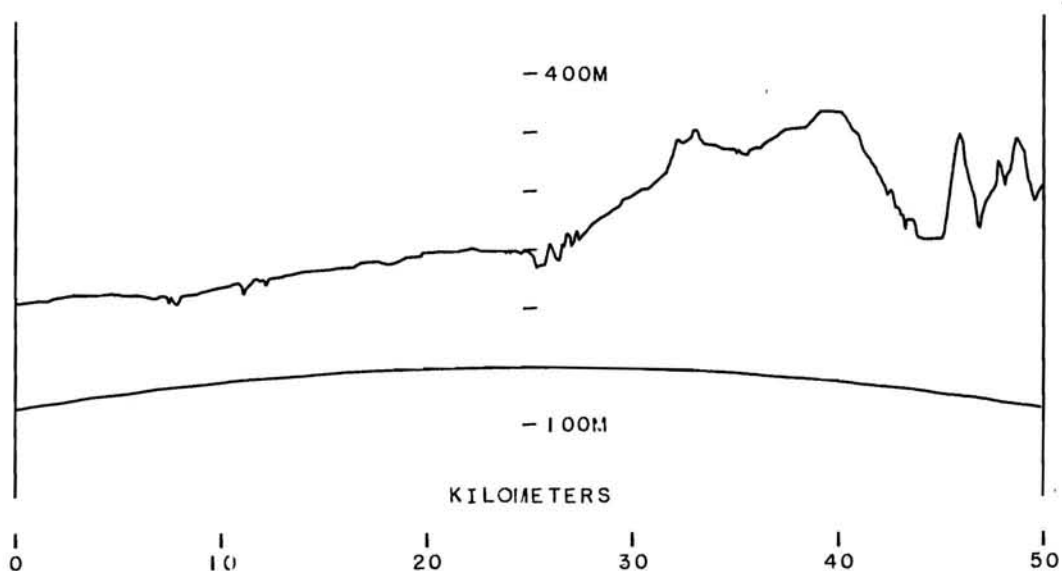
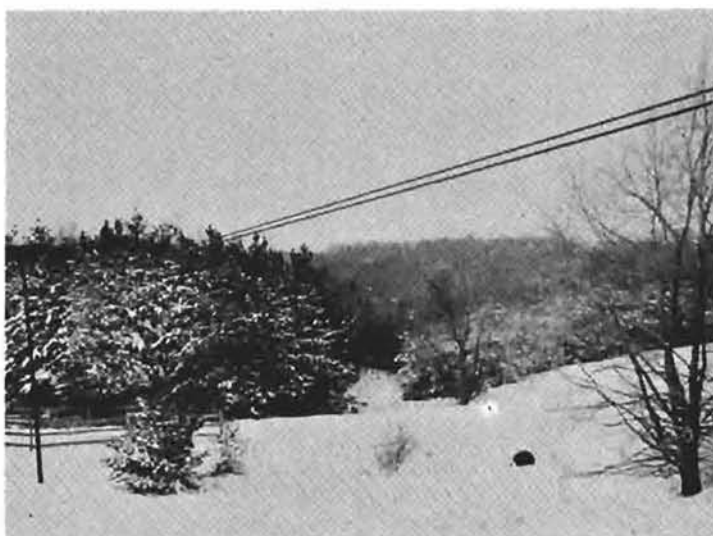
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 52

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| 20MHZ | 50MHZ | 100MHZ |
|-------|-------|--------|
| 3.68 | 4.24 | 3.96 |



OHIO HILLS R= 50KM SITE 52

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-21-64

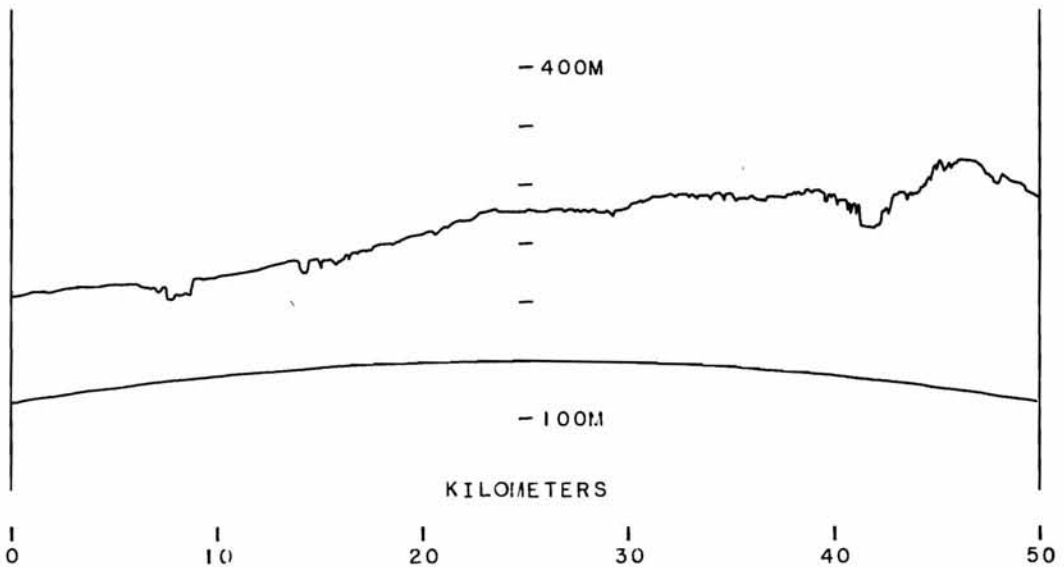
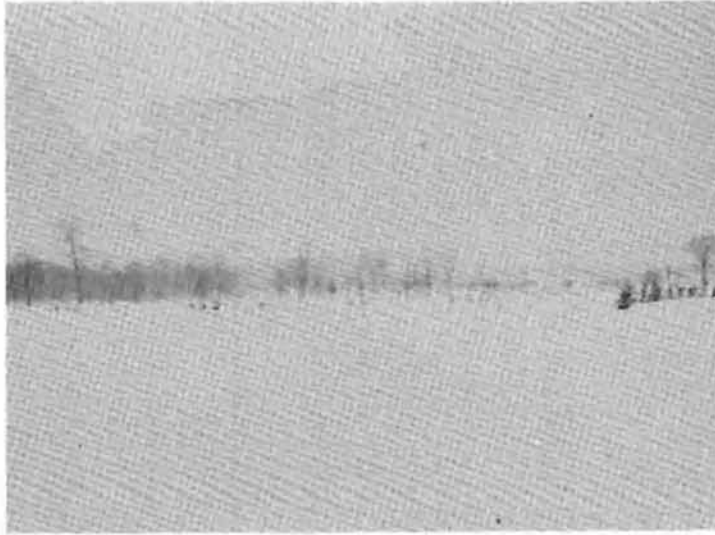
GENERALLY WOODED AREA. 20FT PHONE LINES ON NORTH SIDE OF ROAD. 40FT
POWER LINES ON SOUTH SIDE, LINES CROSS 200FT BEHIND, 100FT AHEAD.

| (T,B,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 21.6 | -134.7 | | -5.4 | | 0.0 | 150.9 | 58.5 |
| (HLLS, 50, 20,V,V,AV,1) | 21.6 | -134.7 | | -5.4 | | 0.0 | 150.9 | 58.5 |
| (HLLS, 50, 20,V,V,AH,1) | 21.6 | -134.7 | | -5.4 | | 0.0 | 150.9 | 58.5 |
| (HLLS, 50, 50,V,V, P,1) | 16.2 | -135.4 | | -6.1 | | 0.8 | 144.7 | 44.3 |
| (HLLS, 50, 50,V,V, P,2) | 16.2 | -134.7 | | -6.5 | | 0.9 | 143.5 | 43.1 |
| (HLLS, 50, 50,V,V,AV,1) | 16.2 | -135.4 | | -6.1 | | 0.8 | 144.7 | 44.3 |
| (HLLS, 50, 50,V,V,AV,2) | 16.2 | -134.7 | | -6.5 | | 0.9 | 143.5 | 43.1 |
| (HLLS, 50, 50,V,V,AH,1) | 16.2 | -135.4 | | -6.1 | | 0.8 | 144.7 | 44.3 |
| (HLLS, 50, 50,V,V,AH,2) | 16.2 | -134.7 | | -6.5 | | 0.9 | 143.5 | 43.1 |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -141.5 | 7.6 | -8.8 | 1.4 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -141.5 | 7.6 | -4.2 | 1.4 | 2.7 | 160.8 | 54.4 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -138.4 | 7.6 | -5.4 | 1.4 | 2.7 | 156.5 | 50.1 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -141.5 | 7.6 | -8.8 | 1.4 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -141.5 | 7.6 | -4.2 | 1.4 | 2.7 | 160.8 | 54.4 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -138.4 | 7.6 | -5.4 | 1.4 | 2.7 | 156.5 | 50.1 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -141.5 | 7.6 | -8.8 | 1.4 | 2.7 | 156.2 | 49.8 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -141.5 | 7.6 | -4.2 | 1.4 | 2.7 | 160.8 | 54.4 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -138.4 | 7.6 | -5.4 | 1.4 | 2.7 | 156.5 | 50.1 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -138.9 | 9.4 | -9.3 | 1.3 | 2.7 | 155.0 | 48.6 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -137.0 | 9.4 | -6.3 | 1.3 | 2.7 | 156.1 | 49.7 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.4 | 9.4 | -6.1 | 1.3 | 2.7 | 157.7 | 51.3 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -138.9 | 9.4 | -9.3 | 1.3 | 2.7 | 155.0 | 48.6 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -137.0 | 9.4 | -6.3 | 1.3 | 2.7 | 156.1 | 49.7 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.4 | 9.4 | -6.1 | 1.3 | 2.7 | 157.7 | 51.3 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -138.9 | 9.4 | -9.3 | 1.3 | 2.7 | 155.0 | 48.6 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -137.0 | 9.4 | -6.3 | 1.3 | 2.7 | 156.1 | 49.7 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -138.4 | 9.4 | -6.1 | 1.3 | 2.7 | 157.7 | 51.3 |

OHIO HILLS B= 50KM SITE 53
TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 53

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-19-64

POWER LINES 60FT AHEAD. 30FT POWER LINES ON NORTH SIDE OF ROAD, 20FT
PHONE LINES ON SOUTH SIDE. HOUSE AND BARN ON SOUTH, WITH ROW OF 60FT
TREES BEHIND.

| (T,H,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 15.7 | ** | | -8.6 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 15.7 | ** | | -5.2 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | 15.7 | ** | | -8.6 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AV,2) | 15.7 | ** | | -5.2 | 0.9 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,1) | 15.7 | ** | | -8.6 | 0.8 | | ** | ** |
| (HLLS, 50, 50,V,V,AH,2) | 15.7 | ** | | -5.2 | 0.9 | | ** | ** |
| (HLLS, 50,100,V,V, P,3) | 20.0 | -143.0 | 7.6 | -4.4 | 1.4 | 2.7 | 162.1 | 55.7 |
| (HLLS, 50,100,V,V, P,6) | 20.0 | -140.4 | 7.6 | -2.4 | 1.4 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -139.7 | 7.6 | -6.5 | 1.4 | 2.7 | 156.7 | 50.3 |
| (HLLS, 50,100,V,V,AV,3) | 20.0 | -143.0 | 7.6 | -4.4 | 1.4 | 2.7 | 162.1 | 55.7 |
| (HLLS, 50,100,V,V,AV,6) | 20.0 | -140.4 | 7.6 | -2.4 | 1.4 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50,100,V,V,AV,9) | 20.0 | -139.7 | 7.6 | -6.5 | 1.4 | 2.7 | 156.7 | 50.3 |
| (HLLS, 50,100,V,V,AH,3) | 20.0 | -143.0 | 7.6 | -4.4 | 1.4 | 2.7 | 162.1 | 55.7 |
| (HLLS, 50,100,V,V,AH,6) | 20.0 | -140.4 | 7.6 | -2.4 | 1.4 | 2.7 | 161.5 | 55.1 |
| (HLLS, 50,100,V,V,AH,9) | 20.0 | -139.7 | 7.6 | -6.5 | 1.4 | 2.7 | 156.7 | 50.3 |
| (HLLS, 50,100,H,H, P,3) | 20.0 | -142.2 | 9.4 | 0.0 | 1.3 | 2.7 | 167.6 | 61.2 |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -140.4 | 9.4 | -6.4 | 1.3 | 2.7 | 159.4 | 53.0 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -138.9 | 9.4 | -6.7 | 1.3 | 2.7 | 157.6 | 51.2 |
| (HLLS, 50,100,H,H,AV,3) | 20.0 | -142.2 | 9.4 | 0.0 | 1.3 | 2.7 | 167.6 | 61.2 |
| (HLLS, 50,100,H,H,AV,6) | 20.0 | -140.4 | 9.4 | -6.4 | 1.3 | 2.7 | 159.4 | 53.0 |
| (HLLS, 50,100,H,H,AV,9) | 20.0 | -138.9 | 9.4 | -6.7 | 1.3 | 2.7 | 157.6 | 51.2 |
| (HLLS, 50,100,H,H,AH,3) | 20.0 | -142.2 | 9.4 | 0.0 | 1.3 | 2.7 | 167.6 | 61.2 |
| (HLLS, 50,100,H,H,AH,6) | 20.0 | -140.4 | 9.4 | -6.4 | 1.3 | 2.7 | 159.4 | 53.0 |
| (HLLS, 50,100,H,H,AH,9) | 20.0 | -138.9 | 9.4 | -6.7 | 1.3 | 2.7 | 157.6 | 51.2 |

* NO MEASUREMENT ATTEMPTED

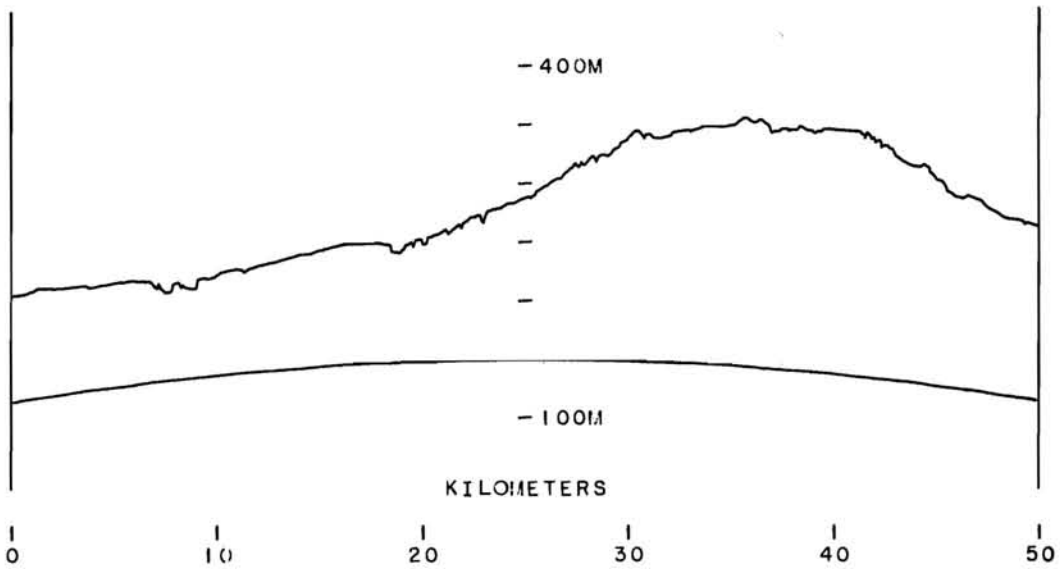
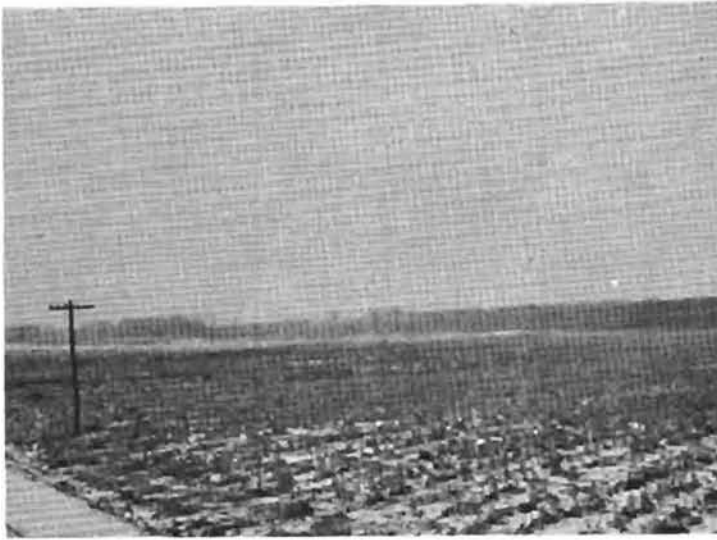
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 54

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 54

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-14-64

20FT PHONE LINES 40FT TO FRONT LEFT, SCATTERED TREES AND WOODS .5MI
BEYOND LINES TO HORIZON. ROAD ON LEFT, BUILDING .4MI ON LEFT, 35FT
ELECTRIC LINES 15FT BEHIND.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(R) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.5 | ** | | -9.3 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 17.1 | ** | | -11.7 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 17.1 | ** | | -5.4 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -7.3 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -1.2 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -141.4 | 7.6 | -2.7 | 1.4 | 2.7 | 162.2 | 55.8 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -0.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | ** | 9.4 | -6.5 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -143.0 | 9.4 | -4.7 | 1.3 | 2.7 | 163.7 | 57.3 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

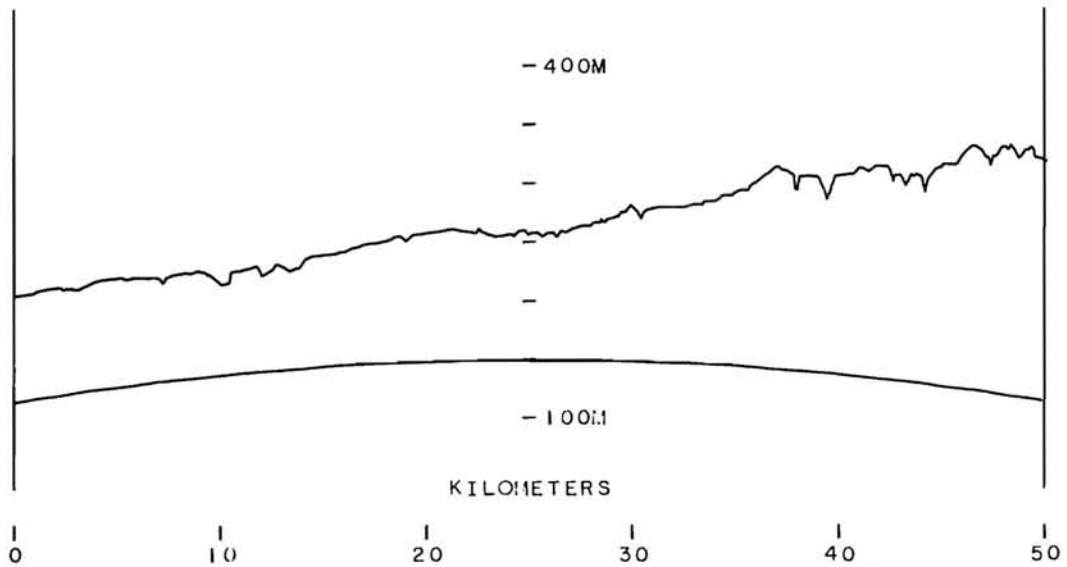
** SIGNAL TOO LOW TO BE MEASURED

OHIO HILLS B= 50KM SITE 55

TRANSMITTER 5

TRANSMITTER HEIGHTS IN METERS ABOVE GROUND

| | | |
|-------|-------|--------|
| 20MHZ | 50MHZ | 100MHZ |
| 3.68 | 4.24 | 3.96 |



OHIO HILLS B= 50KM SITE 55

TRANSMITTER 5

DATE AND COMMENTS OF OPERATOR

02-13-64

15FT PHONE LINES AND ROAD AHEAD FOR SEVERAL MILES, SCATTERED TREES AND BUILDINGS 100FT LEFT OF LINES FOR SEVERAL MILES, TOWN AHEAD, LINES CROSS ROAD AT 200, 500, AND 900FT. SCATTERED TREES AND BUILDINGS BEGIN AT 100FT RIGHT AND LEFT. 15FT PHONE LINES TO LEFT.

| (T,R,F,P(T),P(R),L,H) | W(T) | W(R) | G(T) | G(R) | L(T) | L(R) | L(B) | A |
|-------------------------|------|--------|------|-------|------|------|-------|------|
| (HLLS, 50, 20,V,V, P,1) | 23.3 | ** | | -12.8 | | 0.0 | ** | ** |
| (HLLS, 50, 20,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 20,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V, P,1) | 16.8 | ** | | -9.4 | | 0.8 | ** | ** |
| (HLLS, 50, 50,V,V, P,2) | 16.8 | ** | | -5.5 | | 0.9 | ** | ** |
| (HLLS, 50, 50,V,V,AV,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AV,2) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,1) | * | * | | * | | * | * | * |
| (HLLS, 50, 50,V,V,AH,2) | * | * | | * | | * | * | * |
| (HLLS, 50,100,V,V, P,3) | 20.0 | ** | 7.6 | -18.5 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,6) | 20.0 | ** | 7.6 | -7.0 | 1.4 | 2.7 | ** | ** |
| (HLLS, 50,100,V,V, P,9) | 20.0 | -143.0 | 7.6 | -6.3 | 1.4 | 2.7 | 160.2 | 53.8 |
| (HLLS, 50,100,V,V,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,V,V,AH,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H, P,3) | 20.0 | ** | 9.4 | -5.6 | 1.3 | 2.7 | ** | ** |
| (HLLS, 50,100,H,H, P,6) | 20.0 | -143.0 | 9.4 | -4.4 | 1.3 | 2.7 | 164.0 | 57.6 |
| (HLLS, 50,100,H,H, P,9) | 20.0 | -141.4 | 9.4 | -5.2 | 1.3 | 2.7 | 161.6 | 55.2 |
| (HLLS, 50,100,H,H,AV,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AV,9) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,3) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,6) | * | * | * | * | * | * | * | * |
| (HLLS, 50,100,H,H,AH,9) | * | * | * | * | * | * | * | * |

* NO MEASUREMENT ATTEMPTED

** SIGNAL TOO LOW TO BE MEASURED

