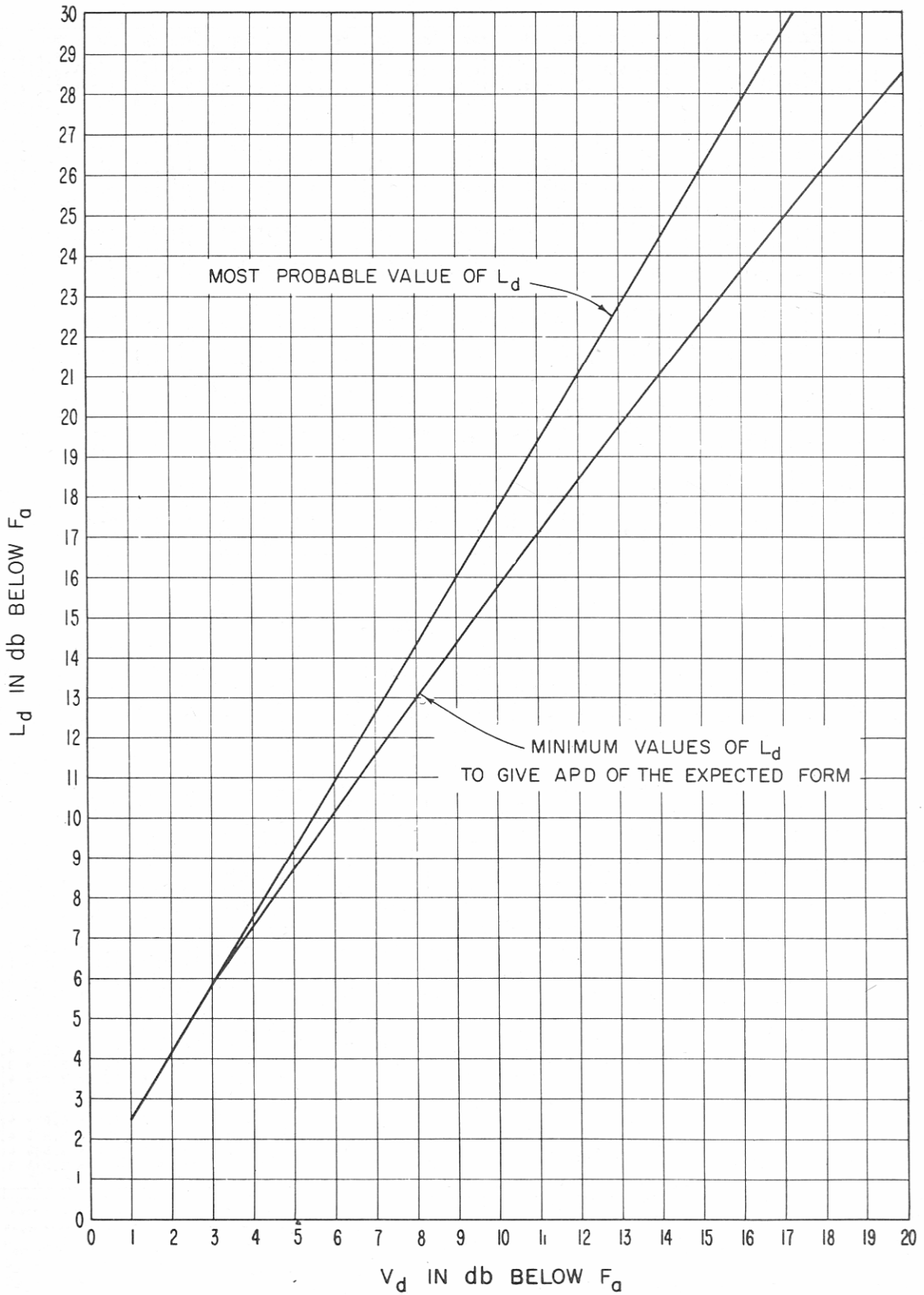


MOST PROBABLE AND MINIMUM VALUES OF  $L_d$  VERSUS  $V_d$   
FOR ATMOSPHERIC RADIO NOISE



MONTH-HOUR VALUES OF RADIO NOISE

STATION BALBOA, CANAL ZONE

LAT. 9.0 N

LONG. 79.5 W

MARCH 1965

| M. H. T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|          | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|          | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00       | 152             | 8.0            | 4.0            | 12.8            | 17.0            | *133            |                |                | *8.3            | *12.0           | 112             | 6.0            | 4.0            | *7.5            | *12.3           | 94              | 5.3            | 2.0            | 8.0             | 13.5            |
| 01       | 151             | 4.5            | 2.4            | 12.3            | 17.0            | 132             | 9.1            | 5.1            | *10.3           | *16.0           | 114             | 3.1            | 6.0            | *9.5            | *15.0           | 94              | 4.0            | 3.3            | *6.0            | *10.3           |
| 02       | 152             | 5.1            | 2.0            | *11.8           | *16.8           | *133            |                |                | *10.0           | *15.5           | 114             | 4.0            | 6.9            | 9.0             | 15.0            | 94              | 4.0            | 4.0            | 7.0             | 11.5            |
| 03       | 152             | 6.0            | 3.1            | *12.0           | *17.8           | 131             | 10.3           | 2.3            | *10.0           | *17.0           | 112             | 6.0            | 6.0            | *7.3            | *13.8           | 94              | 4.0            | 7.1            | *5.5            | *14.0           |
| 04       | 153             | 5.0            | 3.0            | 12.0            | 18.0            | *131            |                |                | *8.5            | *14.0           | 114             | 5.1            | 8.0            | 8.5             | 15.0            | 94              | 4.0            | 7.3            | *7.5            | *13.3           |
| 05       | 153             | 6.8            | 3.0            | *11.8           | *17.3           | *130            |                |                | *10.5           | *15.8           | 111             | 5.0            | 7.0            | *9.3            | *15.8           | 92              | 6.0            | 5.9            | *7.5            | *11.0           |
| 06       | 152             | 4.9            | 2.4            | *11.8           | *17.5           | *128            |                |                | *10.0           | *16.0           | 107             | 9.0            | 10.8           | *10.8           | *17.0           | 86              | 9.7            | 12.1           | *11.0           | *18.0           |
| 07       | 152             | 4.0            | 3.3            | *12.0           | *17.5           | *123            |                |                | *12.8           | *19.0           | 104             | 11.9           | 32.3           | *11.0           | *21.0           | 81              | 16.9           | 12.5           | *10.3           | *18.3           |
| 08       | 152             | 6.3            | 6.0            | *11.8           | *17.5           | *109            |                |                | *11.0           | *18.0           | *96             |                |                | *11.0           | *17.0           | *76             |                |                |                 |                 |
| 09       | *154            |                |                | *14.0           | *19.5           | *115            |                |                |                 |                 | *91             |                |                | *10.0           | *17.5           | *74             |                |                | *4.5            | *5.0            |
| 10       | *152            |                |                | *12.3           | *17.3           | *119            |                |                | *13.0           | *20.0           | *90             |                |                | *12.0           | *19.0           | *72             |                |                |                 |                 |
| 11       | 152             | 7.7            | 2.0            | *12.5           | *17.0           | *123            |                |                | *12.0           | *18.0           | *92             |                |                | *11.5           | *19.0           | *74             |                |                |                 |                 |
| 12       | 155             | 3.9            | 5.0            | *12.5           | *17.5           | *126            |                |                | *11.8           | *17.0           | 92              | 17.5           | 5.0            | *11.5           | *18.0           | 74              | 5.3            | 9.8            | *3.5            | *5.0            |
| 13       | 156             | 4.1            | 4.1            | *12.5           | *17.0           | *127            |                |                | *12.0           | *18.5           | 97              | 10.7           | 4.9            | *12.3           | *18.3           | *75             |                |                | *8.0            | *10.5           |
| 14       | 158             | 3.6            | 5.6            | *11.8           | *16.8           | 127             | 5.9            | 6.2            | *11.8           | *16.3           | 98              | 8.1            | 6.1            | *10.3           | *15.5           | 76              | 12.0           | 15.3           | *8.3            | *10.3           |
| 15       | 158             | 3.5            | 3.7            | *9.8            | *14.5           | 131             | 4.3            | 17.6           | *10.0           | *15.5           | 102             | 9.9            | 8.1            | *11.0           | *17.5           | 80              | 16.0           | 14.3           | *9.8            | *15.0           |
| 16       | 158             | 3.5            | 4.0            | *10.5           | *16.0           | 129             | 6.1            | 2.2            | *10.5           | *15.3           | 102             | 9.2            | 8.1            | *9.5            | *15.3           | 82              | 7.5            | 6.0            | *8.8            | *13.5           |
| 17       | 157             | 3.8            | 4.1            | 11.5            | 16.5            | *127            |                |                | *10.0           | *16.0           | 102             | 7.5            | 7.5            | *12.0           | *18.0           | 79              | 14.8           | 6.9            |                 |                 |
| 18       | 156             | 2.5            | 3.5            | 11.8            | 15.5            | *126            |                |                | *10.5           | *15.0           | 107             | 5.2            | 7.1            | *9.8            | *14.0           | 92              | 4.1            | 9.9            | *5.0            | *8.3            |
| 19       | 155             | 3.0            | 4.3            | *11.5           | *16.0           | *131            |                |                | *8.3            | *12.5           | 112             | 4.0            | 5.1            | 7.8             | 12.5            | 96              | 2.0            | 4.0            | *6.5            | *9.5            |
| 20       | 154             | 2.0            | 3.5            | *11.8           | *17.5           | *131            |                |                | *10.0           | *15.0           | 112             | 4.0            | 4.0            | 8.0             | 13.5            | 96              | 2.0            | 5.3            | 6.0             | 9.5             |
| 21       | 152             | 4.0            | 2.0            | *12.5           | *17.0           | 131             | 4.0            | 7.1            | *9.5            | *14.0           | 114             | 2.0            | 6.0            | *8.0            | *13.3           | 96              | 2.0            | 3.7            | *5.5            | *9.5            |
| 22       | 152             | 4.0            | 2.0            | *11.5           | *16.0           | *133            |                |                | *9.3            | *15.5           | 112             | 5.3            | 4.0            | 8.5             | 14.0            | 94              | 4.0            | 2.0            | 5.5             | 8.8             |
| 23       | 152             | 5.1            | 4.0            | 11.5            | 16.0            | *131            |                |                | *11.5           | *16.5           | 112             | 7.1            | 3.1            | *8.5            | *13.8           | 94              | 4.0            | 4.0            | *6.3            | *10.8           |

| M. H. T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|          | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|          | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00       | 68              | 6.1            | 12.8           | 6.0             | 13.0            | 63              | 3.5            | 7.0            | *5.3            | *9.0            | 38              | 5.5            | 5.5            | *3.5            | *6.5            | 23              | 1.0            | 5.9            | *1.0            | *2.0            |
| 01       | 70              | 5.5            | 24.3           | *7.0            | *12.5           | 63              | 4.0            | 7.3            | *4.8            | *9.0            | 40              | 4.6            | 6.0            | *3.5            | *6.3            | 24              | 0.1            | 5.1            | *1.0            | *1.5            |
| 02       | 72              | 3.7            | 6.3            | *7.0            | *12.5           | 61              | 6.0            | 5.1            | *4.5            | *8.0            | 40              | 5.6            | 7.6            | *5.5            | *7.5            | 23              | 1.1            | 5.5            | *1.0            | *1.3            |
| 03       | 67              | 7.1            | 21.5           | 7.5             | 14.5            | 61              | 3.5            | 6.0            | 4.0             | 7.5             | 36              | 6.5            | 6.1            | *3.8            | *5.5            | 24              | 1.7            | 4.3            | *1.0            | *1.0            |
| 04       | *69             |                |                | *7.8            | *13.5           | 58              | 6.7            | 8.3            | *7.0            | *8.5            | 37              | 6.8            | 9.5            | *2.5            | *4.0            | 24              | 0.2            | 4.3            | *1.0            | *1.5            |
| 05       | *66             | 7.5            | 5.5            | *6.5            | *12.8           | 63              | 10.1           | 10.1           | *3.0            | *6.5            | 34              | 6.2            | 6.0            | *1.5            | *3.0            | 23              | 1.2            | 1.2            | *1.0            | *1.5            |
| 06       | *68             |                |                | *9.3            | *12.8           | 59              | 6.8            | 7.4            | *5.0            | *8.0            | 38              | 8.3            | 6.6            | *6.3            | *9.5            | 22              | 2.1            | 2.0            | *1.5            | *2.0            |
| 07       | 48              | 12.3           | 12.3           | *6.3            | *8.5            | 55              | 4.0            | 13.9           | *6.0            | *9.8            | 46              | 8.3            | 4.0            | *2.0            | *4.5            | *24             |                |                | *1.3            | *2.5            |
| 08       | *40             |                |                | *5.5            | *8.0            | *47             |                |                |                 |                 | *43             |                |                |                 |                 | *24             |                |                | *1.5            | *2.0            |
| 09       | *36             |                |                | *1.5            | *3.5            | *41             |                |                | *5.5            | *8.0            | 38              |                |                | *3.0            | *5.5            | *25             |                |                | *1.8            | *3.0            |
| 10       | *34             |                |                | *2.5            | *4.5            | *39             |                |                | *5.0            | *7.0            | *32             | 3.2            | 15.8           | *4.8            | *8.0            | *24             |                |                | *1.5            | *2.0            |
| 11       | 35              | 7.1            | 9.0            | *3.5            | *4.5            | 37              | 5.7            | 7.9            | *2.5            | *3.5            | *33             |                |                | *3.0            | *5.3            | *24             |                |                | *4.5            | *8.0            |
| 12       | 33              | 5.0            | 3.0            | *1.8            | *3.5            | 39              | 0.7            | 10.0           | *6.0            | *10.5           | 30              | 6.2            | 6.0            | *3.5            | *6.0            | 24              | 3.6            | 2.1            | *2.0            | *3.5            |
| 13       | 34              | 5.7            | 2.1            | *3.5            | *4.5            | 37              | 3.3            | 8.0            | *0.5            | *1.0            | 32              | 8.1            | 4.5            | *5.0            | *8.0            | *26             |                |                | *4.3            | *5.5            |
| 14       | 34              | 2.0            | 7.5            | *8.0            | *11.0           | 37              | 3.5            | 1.8            | *1.5            | *2.5            | 36              | 3.5            | 5.5            | *5.5            | *8.5            | 26              | 3.1            | 4.0            | *3.8            | *5.0            |
| 15       | 36              | 8.0            | 6.4            | *3.0            | *5.0            | 41              | 5.5            | 3.5            | *3.5            | *6.0            | 40              | 4.0            | 6.2            | *4.5            | *9.5            | 28              | 2.0            | 6.0            | *4.3            | *6.0            |
| 16       | 40              | 6.7            | 2.7            | *4.5            | *9.0            | 47              | 6.0            | 11.4           | *4.5            | *7.5            | 46              | 4.0            | 6.0            | *3.0            | *7.0            | 28              | 3.5            | 6.0            | *4.0            | *5.5            |
| 17       | 48              | 7.7            | 4.1            | *5.5            | *9.0            | 53              | 4.0            | 16.0           | *5.5            | *6.8            | 50              | 7.1            | 8.2            | *3.3            | *5.8            | 26              | 2.1            | 6.1            | *4.8            | *6.0            |
| 18       | 62              | 4.0            | 7.0            | *4.8            | *9.8            | 66              | 4.1            | 18.2           | *4.0            | *7.0            | 52              | 6.0            | 14.4           | *2.0            | *4.5            | *26             |                |                | *3.3            | *4.5            |
| 19       | 66              | 4.0            | 9.0            | *6.0            | *11.0           | 68              | 1.1            | 12.1           | *4.0            | *6.5            | 49              | 5.0            | 10.5           | *4.3            | *7.3            | 24              | 2.0            | 3.7            | *2.5            | *3.8            |
| 20       | 68              | 2.0            | 7.2            | *7.0            | *12.0           | 69              | 3.3            | 13.0           | *5.3            | *7.5            | 44              | 7.7            | 7.3            | *5.0            | *8.5            | *24             |                |                | 2.5             | 3.0             |
| 21       | 68              | 4.0            | 7.0            | 6.0             | 12.0            | 67              | 3.1            | 26.0           | *3.3            | *5.0            | 40              | 9.2            | 6.2            | *4.5            | *6.5            | 22              | 2.0            | 0.3            | *2.0            | *2.5            |
| 22       | 68              | 4.0            | 5.5            | *6.8            | *12.3           | 65              | 2.0            | 4.3            | *5.5            | *8.5            | 38              | 8.6            | 5.3            | *4.0            | *7.0            | 22              |                |                | *2.3            | *2.3            |
| 23       | 68              | 5.3            | 9.8            | *7.0            | *13.0           | 61              | 7.7            | 21.6           | *6.8            | *11.5           | 38              | 7.9            | 9.6            | *3.5            | *5.0            | *24             |                |                | *1.3            | *1.8            |

\* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.

D<sub>u</sub> = ratio of upper decile to median in db.

D<sub>l</sub> = ratio of median to lower decile in db.

V<sub>dm</sub> = median deviation of average voltage in db below mean power.

L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

### MONTH-HOUR VALUES OF RADIO NOISE

STATION BALROA, CANAL ZONE

LAT. 9.0 N

LONG. 79.5 W

APRIL

1965

| H.R.<br>T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|            | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|            | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00         | 155             | 4.2            | 4.0            | 11.0            | 15.8            | 136             | 3.0            | 5.0            | * 8.8           | * 12.8          | 115             | 5.9            | 4.0            | 7.0             | 11.5            | 94              | 4.0            | 4.9            | 5.5             | 9.5             |
| 01         | 155             | 4.2            | 4.2            | 11.5            | 16.0            | 137             | 4.0            | 8.4            | 9.5             | 14.0            | 115             | 6.0            | 4.0            | 7.5             | 12.8            | 94              | 5.1            | 2.0            | 7.5             | 13.0            |
| 02         | 155             | 5.9            | 4.0            | 11.0            | 15.5            | 137             | 5.6            | 7.9            | * 8.8           | * 12.5          | 115             | 6.0            | 5.9            | 6.8             | 10.8            | 94              | 5.3            | 2.0            | 5.5             | 9.0             |
| 03         | 155             | 6.0            | 3.7            | 11.0            | 15.0            | 139             | 4.3            | 6.0            | 9.8             | 13.5            | 115             | 6.0            | 4.0            | 8.0             | 12.5            | 96              | 4.0            | 6.0            | 7.0             | 12.0            |
| 04         | 155             | 6.0            | 2.3            | 11.0            | 15.5            | 135             | 7.9            | 9.2            | 8.0             | 12.0            | 117             | 4.0            | 8.0            | 7.0             | 11.5            | 93              | 6.3            | 3.0            | 7.5             | 12.0            |
| 05         | 155             | 6.2            | 4.0            | * 11.8          | * 16.0          | 135             | 8.0            | 4.1            | * 10.3          | * 16.3          | 115             | 4.0            | 8.3            | 8.0             | 13.0            | 90              | 6.0            | 11.5           | 8.5             | 14.0            |
| 06         | 155             | 4.0            | 4.7            | 10.8            | 15.3            | * 130           |                |                | * 9.0           | * 13.5          | 110             | 7.7            | 14.4           | * 10.5          | * 15.5          | 88              | 6.0            | 16.7           | * 12.0          | * 17.5          |
| 07         | 157             | 2.7            | 4.7            | 12.0            | 15.5            | * 130           |                |                | * 12.5          | * 17.8          | 105             | 11.1           | 13.1           | * 13.5          | * 19.0          | 80              | 15.9           | 6.3            | * 9.0           | * 10.5          |
| 08         | 157             | 4.0            | 4.0            | * 13.0          | * 18.0          | 127             | 10.8           | 10.0           | * 13.0          | * 16.0          | 105             | 9.3            | 24.0           | 13.0            | 19.0            | 79              | 16.6           | 8.2            | * 12.0          | * 19.0          |
| 09         | 157             | 4.0            | 4.9            | * 11.8          | * 16.5          | * 132           |                |                | * 10.0          | * 15.5          | 105             | 9.7            | 10.8           | * 12.8          | * 18.5          | 80              | 15.5           | 10.0           | * 11.3          | * 16.0          |
| 10         | 157             | 4.0            | 4.0            | 13.0            | 17.8            | * 131           |                |                | * 12.0          | * 17.5          | 101             | 13.8           | 7.5            | 12.0            | 18.0            | 74              | 16.0           | 4.0            |                 |                 |
| 11         | 157             | 4.0            | 4.0            | 12.0            | 16.5            | 132             | 3.0            | 7.2            | 11.8            | 17.3            | 104             | 8.3            | 7.0            | 12.0            | 18.0            | 74              | 10.9           | 4.9            | * 12.0          | * 14.8          |
| 12         | 159             | 3.6            | 4.0            | 11.5            | 15.5            | 131             | 5.6            | 4.1            | 9.5             | 14.8            | 103             | 8.0            | 6.7            | 11.0            | 17.0            | 76              | 11.4           | 6.5            | * 4.0           | * 5.0           |
| 13         | 161             | 1.9            | 4.2            | 11.3            | 15.3            | 133             | 4.0            | 5.1            | 9.5             | 15.0            | 105             | 6.3            | 6.3            | 9.5             | 14.8            | 75              | 14.9           | 4.9            | * 11.0          | * 14.8          |
| 14         | 160             | 3.0            | 3.0            | 10.5            | 14.5            | 133             | 4.1            | 3.7            | 8.0             | 12.0            | 105             | 7.6            | 5.9            | 8.0             | 13.0            | 78              | 12.1           | 4.2            | * 8.5           | * 12.0          |
| 15         | 161             | 2.0            | 3.0            | 9.3             | 14.0            | 135             | 2.0            | 2.0            | * 7.5           | * 12.5          | 107             | 7.9            | 6.1            | 8.5             | 13.5            | 83              | 13.9           | 9.4            | * 10.5          | * 15.0          |
| 16         | 161             | 2.1            | 6.0            | 9.0             | 13.5            | 135             | 3.1            | 5.1            | 8.5             | 12.5            | 106             | 10.7           | 6.7            | 8.5             | 13.5            | 85              | 14.8           | 7.9            | 9.5             | 14.5            |
| 17         | 159             | 4.0            | 4.1            | 9.8             | 14.0            | 133             | 6.0            | 4.0            | 9.8             | 13.8            | 107             | 6.2            | 6.4            | 11.8            | 17.5            | 86              | 12.8           | 8.6            | 9.0             | 15.0            |
| 18         | 157             | 2.0            | 4.0            | 9.5             | 14.5            | 131             | 7.2            | 5.1            | * 10.0          | * 15.0          | 111             | 5.9            | 5.7            | 7.0             | 12.0            | 92              | 6.0            | 3.4            | 6.5             | 10.5            |
| 19         | 157             | 2.2            | 4.0            | 10.0            | 15.0            | 135             | 3.3            | 2.0            | 9.0             | 13.0            | 115             | 4.0            | 3.1            | 7.5             | 12.0            | 94              | 4.1            | 3.9            | 6.0             | 10.5            |
| 20         | 155             | 5.9            | 1.9            | 10.5            | 14.8            | 135             | 4.0            | 4.0            | 9.0             | 14.0            | 115             | 3.6            | 4.0            | 7.5             | 13.0            | 94              | 4.7            | 2.7            | * 6.5           | * 11.5          |
| 21         | 155             | 5.6            | 2.0            | 10.0            | 13.5            | 137             | 2.0            | 8.3            | 9.0             | 14.0            | 115             | 4.0            | 2.9            | 6.8             | 11.3            | 96              | 4.1            | 4.2            | 6.5             | 11.0            |
| 22         | 155             | 3.9            | 2.1            | * 10.0          | * 14.0          | 134             | 5.0            | 4.2            | * 9.8           | * 13.8          | 115             | 4.3            | 4.0            | * 6.5           | * 10.8          | 96              | 2.0            | 4.9            | 6.5             | 10.5            |
| 23         | 155             | 4.0            | 3.2            | 11.0            | 15.5            | 136             | 2.9            | 5.1            | * 8.3           | * 12.8          | 115             | 4.1            | 4.0            | 7.5             | 12.8            | 94              | 4.0            | 4.5            | 7.0             | 11.0            |

| H.R.<br>T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |       |
|------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-------|
|            | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |       |
|            | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |       |
| 00         | 66              | 4.1            | 3.7            | * 4.0           | * 6.5           | 61              | 4.6            | 3.1            | * 4.0           | * 7.0           | 43              | 5.0            | 8.3            | * 3.0           | * 4.8           | * 25            |                |                |                 | * 2.3           | * 3.5 |
| 01         | 68              | 2.0            | 2.0            | * 4.0           | * 7.5           | 62              | 2.0            | 3.3            | 4.0             | 7.3             | 43              | 8.4            | 13.6           | * 3.5           | * 6.0           | * 25            |                |                |                 | * 2.0           | * 2.8 |
| 02         | 70              | 2.0            | 3.5            | * 4.0           | * 7.8           | 62              | 2.0            | 5.0            | 4.0             | 7.3             | 42              | 5.1            | 10.0           | * 3.3           | * 5.3           | * 25            |                |                |                 | * 1.5           | * 3.0 |
| 03         | 70              | 4.0            | 3.3            | 4.5             | 8.0             | 62              | 2.6            | 4.0            | * 4.5           | * 7.8           | 39              | 6.3            | 12.8           | * 3.0           | * 4.0           | * 25            |                |                |                 | * 1.5           | * 2.5 |
| 04         | 70              | 4.0            | 2.0            | 4.5             | 8.0             | 62              | 4.2            | 6.0            | 3.5             | 6.5             | 36              | 11.1           | 8.2            | * 4.3           | * 6.3           | * 25            |                |                |                 | * 2.0           | * 3.0 |
| 05         | 70              | 4.0            | 3.3            | * 5.5           | * 9.5           | 64              | 6.1            | 9.8            | * 4.5           | * 7.8           | 36              | 14.3           | 8.0            | 3.0             | 4.5             | * 23            |                |                |                 | * 2.0           | * 2.8 |
| 06         | 62              | 6.3            | 15.1           | * 7.0           | * 12.5          | 60              | 4.2            | 3.7            | * 5.0           | * 8.0           | 46              | 6.1            | 17.5           | * 3.5           | * 5.0           | * 25            |                |                |                 | * 1.5           | * 2.0 |
| 07         | 54              | 5.7            | 15.9           | * 6.8           | * 10.8          | 54              | 3.5            | 11.0           | * 7.0           | * 11.0          | 44              | 6.1            | 6.3            | * 3.3           | * 5.0           | * 25            |                |                |                 | * 1.8           | * 2.8 |
| 08         | 44              | 7.0            | 14.4           | * 6.5           | * 11.5          | 47              | 5.4            | 11.0           | * 6.5           | * 10.0          | * 38            |                |                | * 4.0           | * 6.5           | 25              | 2.0            | 4.0            | * 2.5           | * 3.0           |       |
| 09         | 34              | 14.0           | 10.0           | * 6.5           | * 7.5           | 40              | 6.6            | 9.8            | * 6.5           | * 9.0           | 32              | 5.7            | 6.1            | * 2.5           | * 5.5           | * 23            | 4.0            | 2.0            | * 1.8           | * 2.8           |       |
| 10         | 32              | 14.0           | 7.2            | * 6.3           | * 9.3           | 38              | 5.1            | 10.2           | * 4.5           | * 5.0           | 34              | 4.0            | 4.0            | * 4.0           | * 6.0           | * 23            |                |                |                 | * 2.5           | * 4.5 |
| 11         | 35              | 10.2           | 10.6           | * 4.8           | * 7.0           | 36              | 4.0            | 6.7            | * 3.0           | * 3.8           | 34              | 4.9            | 4.9            | * 4.0           | * 5.8           | * 23            |                |                |                 | * 2.0           | * 3.5 |
| 12         | 32              | 10.0           | 9.5            | * 6.8           | * 9.3           | 38              | 3.1            | 7.2            | * 3.8           | * 4.8           | 35              | 5.4            | 7.5            | * 6.0           | * 8.5           | 25              | 2.0            | 4.0            | * 3.0           | * 4.0           |       |
| 13         | 32              | 14.0           | 8.0            | 3.0             | 4.5             | 38              | 3.4            | 2.7            | 3.5             | 4.5             | 38              | 4.0            | 4.0            | 5.5             | 8.5             | 25              | 4.0            | 2.2            | * 4.0           | * 5.5           |       |
| 14         | 34              | 13.1           | 7.1            | * 4.8           | * 6.3           | 38              | 6.0            | 6.6            | 3.0             | 3.5             | 40              | 4.0            | 7.1            | * 5.0           | * 7.5           | 26              | 3.0            | 3.0            | * 4.0           | * 5.5           |       |
| 15         | 38              | 10.0           | 12.2           | * 5.5           | * 8.3           | 42              | 6.0            | 4.9            | 3.5             | 4.5             | 42              | 4.0            | 5.1            | * 3.5           | * 5.8           | 28              | 4.4            | 7.0            | * 3.5           | * 5.3           |       |
| 16         | 42              | 13.2           | 6.2            | * 4.5           | * 6.5           | 46              | 6.0            | 6.0            | * 4.5           | * 7.0           | 44              | 6.0            | 6.7            | * 3.3           | * 5.3           | 29              | 4.0            | 8.0            | * 4.0           | * 5.5           |       |
| 17         | 48              | 10.7           | 8.0            | * 4.0           | * 7.0           | 52              | 6.0            | 4.0            | * 3.5           | * 6.5           | 50              | 2.0            | 6.0            | * 2.8           | * 4.5           | 29              | 4.0            | 5.9            | * 4.8           | * 6.8           |       |
| 18         | 58              | 7.5            | 10.3           | * 5.5           | * 8.8           | 64              | 2.0            | 7.3            | * 4.0           | * 6.5           | 52              | 4.0            | 5.4            | * 3.5           | * 4.5           | 28              | 3.0            | 7.0            | * 3.5           | * 5.5           |       |
| 19         | 64              | 5.3            | 6.6            | * 4.8           | * 8.3           | 62              | 4.1            | 4.1            | * 4.3           | * 7.0           | 52              | 3.9            | 5.4            | * 1.8           | * 3.5           | * 25            |                |                |                 | * 2.5           | * 4.0 |
| 20         | 66              | 4.0            | 6.0            | 5.0             | 8.0             | * 64            |                |                | * 2.5           | * 5.0           | 48              | 6.0            | 10.6           | 2.5             | 4.5             | * 24            |                |                |                 | * 2.0           | * 3.0 |
| 21         | 64              | 6.0            | 4.0            | * 4.0           | * 7.5           | 64              | 2.8            | 5.9            | * 4.0           | * 7.5           | 44              | 8.7            | 11.4           | * 4.0           | * 6.5           | * 23            | 1.8            | 2.0            | * 2.0           | * 3.0           |       |
| 22         | 64              | 4.0            | 4.0            | * 4.0           | * 7.5           | 62              | 3.9            | 4.8            | * 4.3           | * 7.5           | 41              | 9.1            | 4.6            | * 2.5           | * 4.8           | * 23            |                |                |                 | * 1.0           | * 2.5 |
| 23         | 67              | 3.2            | 6.1            | * 4.5           | * 8.0           | 61              | 5.1            | 5.2            | 3.0             | 6.0             | 44              | 4.5            | 10.5           | 3.5             | 5.5             | 23              | 4.3            | 2.0            | * 1.5           | * 2.8           |       |

\* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.  
 D<sub>u</sub> = ratio of upper decile to median in db.  
 D<sub>l</sub> = ratio of median to lower decile in db.  
 V<sub>dm</sub> = median deviation of average voltage in db below mean power.  
 L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

## MONTH-HOUR VALUES OF RADIO NOISE

STATION BALBOA, CANAL ZONE

LAT. 9.0 N

LONG. 79.5 W

MAY

1965

| H.<br>R.<br>T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|                | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|                | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00             | 161             | 5.0            | 9.3            | 9.5             | 13.8            | 136             | 7.7            | 11.3           | * 7.5           | * 11.5          | 121             | 5.6            | 9.3            | 7.0             | 10.0            | 101             | 7.8            | 14.3           | 6.0             | 9.8             |
| 01             | 161             | 5.5            | 8.0            | 10.5            | 15.3            | 137             | 7.3            | 10.3           | 8.0             | 12.0            | 121             | 5.5            | 7.5            | 6.5             | 10.5            | 100             | 6.1            | 10.0           | 6.0             | 10.0            |
| 02             | 161             | 5.6            | 8.0            | 10.0            | 15.0            | 136             | 8.4            | 14.0           | * 8.8           | * 13.3          | 121             | 5.6            | 6.6            | 7.0             | 11.3            | 99              | 8.7            | 10.9           | 6.3             | 10.0            |
| 03             | 161             | 6.6            | 6.0            | 10.0            | 14.5            | 136             | 7.5            | 10.0           | 8.5             | 13.0            | 120             | 8.3            | 4.7            | 7.0             | 11.5            | 100             | 8.0            | 10.0           | 6.5             | 10.5            |
| 04             | 162             | 4.6            | 8.3            | 10.0            | 14.5            | 134             | 9.4            | 11.4           | * 8.5           | * 12.5          | 121             | 3.9            | 6.1            | 7.3             | 12.0            | 98              | 9.2            | 8.0            | 6.5             | 10.8            |
| 05             | 160             | 6.8            | 5.0            | 11.0            | 16.3            | 136             | 4.0            | 7.0            | * 10.3          | * 14.0          | 119             | 6.6            | 7.1            | 9.0             | 14.0            | 97              | 9.2            | 13.2           | 7.3             | 11.8            |
| 06             | 159             | 5.8            | 6.1            | 11.5            | 16.0            | 128             | 8.7            | 8.0            | * 8.5           | * 12.8          | 110             | 14.2           | 9.1            | * 12.5          | * 16.8          | 86              | 18.0           | 14.0           | * 8.0           | * 11.5          |
| 07             | 157             | 6.7            | 4.0            | 11.5            | 15.8            | 126             | 12.2           | 8.2            | * 9.5           | * 14.0          | 108             | 16.0           | 13.0           | * 10.0          | * 14.8          | 85              | 17.0           | 13.0           | * 7.3           | * 11.0          |
| 08             | 157             | 6.7            | 4.5            | 11.5            | 16.0            | 124             | 16.8           | 4.0            | * 10.0          | * 15.0          | 107             | 15.1           | 12.0           | * 13.0          | * 18.3          | 85              | 13.5           | 13.5           | * 7.5           | * 13.3          |
| 09             | 157             | 8.0            | 4.0            | 11.5            | 16.0            | * 126           |                |                | * 10.3          | * 14.8          | 112             | 10.1           | 17.0           | * 12.3          | * 17.3          | 84              | 16.9           | 12.9           | * 11.0          | * 14.0          |
| 10             | 157             | 6.0            | 4.0            | * 11.0          | * 14.5          | 128             | 8.0            | 9.0            | * 12.5          | * 17.0          | 110             | 12.3           | 20.4           | * 11.3          | * 16.3          | 84              | 22.2           | 15.1           | * 6.3           | * 9.0           |
| 11             | 157             | 8.0            | 4.0            | 11.8            | 16.3            | 128             | 12.4           | 6.0            | * 11.0          | * 16.5          | 108             | 20.2           | 14.9           | 11.0            | 16.5            | 80              | 26.7           | 8.0            | * 5.0           | * 7.5           |
| 12             | 158             | 8.3            | 3.2            | 11.5            | 15.5            | 128             | 17.2           | 7.1            | * 11.0          | * 16.0          | 109             | 22.0           | 14.9           | * 11.0          | * 16.0          | 86              | 25.7           | 14.0           | * 7.3           | * 10.8          |
| 13             | 160             | 12.2           | 5.4            | 10.3            | 14.8            | 137             | 15.3           | 15.1           | 11.5            | 16.0            | 118             | 17.0           | 14.8           | 13.8            | 18.8            | 100             | 20.8           | 28.2           | * 8.5           | * 14.0          |
| 14             | 161             | 7.3            | 3.6            | 9.5             | 14.0            | 135             | 18.8           | 12.3           | * 12.3          | * 16.5          | 117             | 12.3           | 15.7           | 10.0            | 16.0            | 96              | 14.3           | 18.3           | * 12.8          | * 19.5          |
| 15             | 161             | 13.2           | 7.1            | 9.3             | 13.8            | 136             | 22.7           | 10.0           | 10.0            | 14.5            | 119             | 11.7           | 9.8            | 10.5            | 15.0            | 100             | 12.0           | 14.9           | * 9.8           | * 16.0          |
| 16             | 163             | 5.1            | 6.0            | 8.0             | 12.0            | 136             | 12.0           | 14.0           | * 8.5           | * 12.8          | 120             | 9.8            | 12.1           | 11.5            | 17.0            | 100             | 11.1           | 16.0           | 9.8             | 15.5            |
| 17             | 161             | 5.6            | 6.0            | 8.0             | 12.0            | 134             | 12.0           | 12.0           | * 8.5           | * 13.0          | 114             | 12.5           | 7.5            | 11.3            | 16.5            | 94              | 15.1           | 12.0           | * 12.8          | * 17.8          |
| 18             | 159             | 7.3            | 5.3            | 8.5             | 12.5            | 131             | 11.6           | 12.8           | 9.0             | 14.0            | 113             | 12.0           | 5.6            | * 8.0           | * 12.3          | 94              | 12.0           | 9.9            | * 5.5           | * 8.0           |
| 19             | 159             | 6.0            | 7.3            | 9.0             | 12.5            | 136             | 6.6            | 14.0           | 7.5             | 12.0            | 117             | 8.0            | 6.8            | 8.3             | 13.3            | 96              | 11.5           | 9.5            | 5.5             | 10.0            |
| 20             | 159             | 5.5            | 5.1            | 9.0             | 13.0            | 132             | 10.9           | 10.0           | * 6.8           | * 10.8          | 118             | 7.8            | 6.3            | 6.8             | 10.8            | 98              | 9.9            | 11.9           | 5.5             | 8.5             |
| 21             | 161             | 4.0            | 6.0            | 9.8             | 14.3            | 137             | 5.2            | 15.0           | 6.0             | 9.5             | 121             | 5.7            | 8.8            | 6.0             | 9.5             | 99              | 8.7            | 13.4           | 4.5             | 7.5             |
| 22             | 161             | 5.4            | 8.0            | 9.3             | 13.8            | 132             | 9.1            | 12.2           | * 7.3           | * 10.8          | 119             | 8.0            | 7.1            | 6.0             | 10.5            | 100             | 7.6            | 14.1           | 4.5             | 7.5             |
| 23             | 161             | 5.5            | 6.0            | 9.5             | 14.0            | 136             | 11.5           | 10.0           | * 8.5           | * 11.8          | 121             | 6.0            | 10.2           | 7.0             | 11.0            | 100             | 8.4            | 10.1           | 4.5             | 8.5             |

| H.<br>R.<br>T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|                | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|                | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00             | 70              | 4.9            | 8.0            | 4.3             | 7.5             | 62              | 3.9            | 8.8            | 3.5             | 6.0             | 40              | 13.6           | 3.9            | * 5.0           | * 7.3           | 29              | 11.1           | 6.0            | * 1.3           | * 2.3           |
| 01             | 70              | 4.7            | 9.4            | 4.5             | 8.5             | 63              | 2.3            | 6.0            | 4.0             | 6.5             | 41              | 10.9           | 4.0            | * 3.5           | * 5.0           | 29              | 12.0           | 6.0            | * 2.3           | * 3.5           |
| 02             | 71              | 3.9            | 9.9            | * 4.5           | * 7.8           | 63              | 4.0            | 9.0            | 4.5             | 8.0             | 40              | 10.0           | 6.2            | * 4.0           | * 7.0           | 32              | 7.9            | 9.0            | * 1.5           | * 2.5           |
| 03             | 72              | 5.1            | 8.2            | * 5.5           | * 9.0           | 63              | 4.0            | 8.5            | * 4.5           | * 7.5           | 39              | 9.1            | 3.5            | * 2.5           | * 4.0           | 37              | 4.0            | 14.0           | * 1.5           | * 2.5           |
| 04             | 72              | 4.7            | 9.4            | * 6.0           | * 9.5           | 63              | 4.0            | 6.0            | 4.5             | 7.5             | 39              | 5.5            | 6.0            | * 3.0           | * 5.0           | 35              | 5.1            | 12.0           | * 1.0           | * 2.0           |
| 05             | 68              | 8.0            | 6.0            | * 6.0           | * 10.0          | 67              | 4.7            | 4.7            | * 4.5           | * 10.0          | 39              | 10.6           | 6.4            | * 2.0           | * 4.0           | 37              | 2.0            | 14.0           | 1.5             | 2.5             |
| 06             | 60              | 6.0            | 14.0           | * 9.5           | * 14.5          | 57              | 5.5            | 2.5            | * 4.0           | * 7.0           | 41              | 12.2           | 6.6            | * 4.0           | * 6.5           | 37              | 2.0            | 14.0           | * 1.5           | * 2.5           |
| 07             | 50              | 13.1           | 10.2           | * 9.5           | * 15.3          | 53              | 7.3            | 9.3            | * 6.5           | * 9.5           | 39              | 9.4            | 6.0            | * 5.8           | * 9.8           | 37              | 6.0            | 14.0           | * 1.5           | * 2.5           |
| 08             | 42              | 17.5           | 8.0            | * 8.8           | * 14.8          | 43              | 13.7           | 7.7            | * 6.5           | * 10.0          | 37              | 10.6           | 7.1            | * 6.5           | * 11.0          | 35              | 4.1            | 12.0           | * 2.8           | * 4.0           |
| 09             | 47              | 9.3            | 17.1           | * 8.0           | * 16.0          | 41              | 9.5            | 6.3            | * 5.5           | * 9.0           | 32              | 9.5            | 3.2            | * 5.8           | * 8.5           | 37              | 3.3            | 14.0           | 2.5             | 3.5             |
| 10             | 40              | 16.3           | 10.1           |                 |                 | 39              | 13.0           | 4.0            | * 8.5           | * 11.8          | * 29            |                |                |                 |                 | 37              | 5.7            | 15.6           | * 2.3           | * 3.3           |
| 11             | 44              | 29.7           | 14.3           |                 |                 | 39              | 17.5           | 4.0            | * 2.0           | * 3.0           | * 31            |                |                | * 6.5           | * 11.0          | 38              | 4.8            | 15.1           | * 3.8           | * 5.0           |
| 12             | 38              | 34.0           | 8.0            | * 12.0          | * 16.3          | 41              | 5.8            | 6.1            | * 5.8           | * 7.0           | 33              | 16.6           | 4.0            | * 7.0           | * 10.5          | 39              | 12.4           | 15.3           | * 2.8           | * 3.5           |
| 13             | 44              | 40.2           | 12.1           | * 9.5           | * 13.0          | 44              | 28.5           | 6.5            | * 7.3           | * 10.0          | 37              | 16.2           | 5.1            | * 5.5           | * 10.0          | 38              | 20.4           | 13.0           | * 3.0           | * 4.5           |
| 14             | 51              | 21.9           | 17.0           | * 11.0          | * 16.8          | 44              | 26.8           | 7.0            | * 9.3           | * 13.0          | 39              | 5.3            | 4.0            | * 5.5           | * 8.5           | 39              | 6.0            | 14.0           | 3.0             | 5.0             |
| 15             | 54              | 33.0           | 14.0           | * 10.5          | * 15.0          | 49              | 4.9            | 12.9           | * 5.8           | * 8.5           | 39              | 6.0            | 3.4            | * 4.8           | * 8.3           | 40              | 7.5            | 13.0           | * 3.3           | * 4.8           |
| 16             | 56              | 20.0           | 14.3           | * 9.0           | * 13.0          | 55              | 10.6           | 8.6            | * 4.3           | * 7.3           | 43              | 6.0            | 6.0            | * 5.0           | * 9.0           | 40              | 7.0            | 13.0           | * 3.8           | * 5.5           |
| 17             | 57              | 8.9            | 13.0           | * 7.0           | * 12.0          | 58              | 6.9            | 5.6            | * 4.5           | * 7.5           | 45              | 6.9            | 3.8            | * 5.0           | * 8.0           | 41              | 6.0            | 14.9           | * 3.0           | * 4.5           |
| 18             | 64              | 4.0            | 11.3           | * 5.0           | * 9.3           | 63              | 4.7            | 4.0            | * 4.5           | * 8.0           | 49              | 9.5            | 4.0            | * 4.0           | * 7.0           | 41              | 6.0            | 14.0           | 2.5             | 4.0             |
| 19             | 68              | 6.0            | 10.5           | 6.0             | 10.0            | 65              | 4.6            | 5.3            | * 4.0           | * 7.0           | 47              | 8.4            | 2.1            | * 4.5           | * 7.0           | 39              | 4.7            | 16.0           | 3.8             | 5.8             |
| 20             | 69              | 5.0            | 11.5           | * 4.5           | * 7.5           | * 65            |                |                | * 3.3           | * 5.3           | 47              | 7.8            | 5.6            | * 3.0           | * 5.0           | 37              | 4.0            | 14.0           | 2.0             | 3.5             |
| 21             | 70              | 4.0            | 12.0           | * 4.8           | * 8.5           | 65              | 4.1            | 5.3            | * 3.0           | * 5.5           | 47              | 10.9           | 8.4            | * 4.0           | * 6.5           | 27              | 11.9           | 4.0            | * 2.5           | * 3.5           |
| 22             | 70              | 4.9            | 10.0           | 4.8             | 8.5             | 65              | 3.7            | 7.7            | * 3.0           | * 4.5           | 43              | 14.0           | 6.0            | * 3.0           | * 5.0           | 37              | 3.5            | 14.0           | * 2.5           | * 3.5           |
| 23             | 70              | 4.0            | 9.4            | 4.0             | 7.0             | 62              | 5.0            | 4.3            | 4.0             | 6.0             | 39              | 16.2           | 2.0            | * 4.5           | * 6.5           | 35              | 6.0            | 12.0           | * 1.5           | * 2.5           |

 \* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

 F<sub>am</sub> = median value of effective antenna noise in db above ktb.

 D<sub>u</sub> = ratio of upper decile to median in db.

 D<sub>l</sub> = ratio of median to lower decile in db.

 V<sub>dm</sub> = median deviation of average voltage in db below mean power.

 L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

MONTH-HOUR VALUES OF RADIO NOISE

STATION BILL, WYOMING

LAT. 43.2 N

LONG. 105.2 W

MARCH

1965

| M-F | RH  | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|-----|-----|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|     |     | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|     |     | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00  | 152 | 10.0            | 3.1            | 13.3           | 18.5            | 130             | 6.0             | 3.1            | 3.5            | 8.0             | 102             | 13.1            | 6.0            | 10.5           | 19.0            | 84              | 11.1            | 6.0            | 9.5            | 16.5            |                 |
| 01  | 154 | 8.0             | 4.0            | 13.0           | 18.0            | 130             | 6.0             | 2.0            | 3.0            | 7.5             | 100             | 14.2            | 7.1            | 10.3           | 18.0            | 82              | 14.0            | 4.0            | 8.5            | 15.5            |                 |
| 02  | 152 | 9.1             | 2.0            | 12.5           | 18.5            | 130             | 8.0             | 2.0            | 3.5            | 7.5             | 100             | 16.0            | 8.0            | 9.0            | 17.5            | 82              | 14.0            | 6.0            | 8.5            | 14.5            |                 |
| 03  | 152 | 8.2             | 2.0            | 12.0           | 17.5            | 130             | 7.1             | 2.0            | 3.5            | 7.5             | 98              | 17.1            | 6.0            | 9.0            | 16.0            | 80              | 17.1            | 6.0            | 8.3            | 14.0            |                 |
| 04  | 152 | 8.0             | 3.1            | 12.5           | 17.5            | 131             | 6.3             | 2.3            | 2.5            | 7.3             | 96              | 20.0            | 8.0            | 9.5            | 16.5            | 78              | 18.2            | 10.2           | 7.5            | 12.0            |                 |
| 05  | 152 | 8.0             | 4.0            | 12.5           | 17.5            | 130             | 4.0             | 2.0            | 2.5            | 6.5             | 92              | 12.0            | 8.0            | 8.5            | 15.0            | 70              | 10.0            | 6.0            | 7.5            | 13.0            |                 |
| 06  | 152 | 3.1             | 4.0            | 12.0           | 16.5            | 122             | 9.1             | 6.0            | 1.5            | 6.0             | 82              | 14.0            | 6.0            | 10.0           | 16.0            | 54              | 12.2            | 3.1            | 4.5            | 6.5             |                 |
| 07  | 148 | 6.0             | 2.0            | 12.0           | 16.0            | 126             | 2.0             | 4.0            | 2.5            | 7.0             | 74              | 20.0            | 8.0            | 8.8            | 14.8            | 52              | 6.0             | 2.0            | 2.0            | 4.3             |                 |
| 08  | 148 | 5.3             | 2.0            | 11.5           | 16.0            | 120             | 5.1             | 8.0            | 3.5            | 6.5             | 73              | 20.3            | 9.0            | 6.0            | 10.0            | 50              | 7.6             | 0.0            | 2.0            | 3.8             |                 |
| 09  | 148 | 8.1             | 3.9            | 11.5           | 16.0            | 118             | 4.6             | 4.0            | 2.0            | 5.5             | 72              | 19.2            | 8.0            | 5.0            | 7.5             | 51              | 5.2             | 1.0            | * 1.8          | * 3.5           |                 |
| 10  | 150 | 8.1             | 6.0            | 11.3           | 15.0            | 122             | 7.3             | 4.1            | 2.5            | 6.5             | 74              | 17.9            | 10.0           | 6.5            | 8.8             | 52              | 2.3             | 2.0            | 2.0            | 5.5             |                 |
| 11  | 150 | 7.5             | 4.0            | 11.5           | 16.8            | 122             | 6.6             | 5.8            | 2.5            | 6.5             | 73              | 20.3            | 9.0            | 6.8            | 9.3             | 52              | 4.2             | 2.0            | 1.3            | 4.0             |                 |
| 12  | 150 | 8.0             | 2.0            | 10.8           | 15.5            | 124             | 4.6             | 7.1            | 2.5            | 7.0             | 71              | 21.3            | 8.6            | 6.5            | 8.8             | 52              | 4.0             | 2.0            | 1.8            | 3.5             |                 |
| 13  | 150 | 6.1             | 2.1            | 11.5           | 17.0            | 124             | 3.7             | 4.2            | 2.5            | 7.0             | 72              | 20.0            | 8.0            | 7.0            | 9.0             | 52              | 2.0             | 2.0            | 2.5            | 4.5             |                 |
| 14  | 152 | 6.0             | 4.0            | 12.0           | 17.0            | 124             | 4.0             | 8.3            | 2.8            | 6.8             | 72              | 20.0            | 8.0            | 7.5            | 10.0            | 52              | 8.3             | 2.0            | 2.0            | 4.3             |                 |
| 15  | 150 | 8.0             | 4.0            | 12.0           | 17.5            | 122             | 6.0             | 4.0            | 3.0            | 7.0             | 72              | 22.2            | 9.1            | 8.0            | 11.3            | 52              | 7.2             | 2.0            | 2.5            | 5.0             |                 |
| 16  | 150 | 7.1             | 6.0            | 12.3           | 17.5            | 120             | 11.1            | 6.0            | 3.3            | 7.5             | 82              | 15.1            | 16.0           | 8.5            | 13.0            | 54              | 10.0            | 4.0            | 2.0            | 3.5             |                 |
| 17  | 148 | 9.1             | 4.0            | 12.5           | 17.0            | 122             | 11.3            | 5.3            | 3.5            | 6.5             | 90              | 15.1            | 14.0           | 8.8            | 14.5            | 66              | 15.2            | 10.0           | 4.5            | 8.5             |                 |
| 18  | 150 | 7.1             | 4.0            | 12.5           | 17.5            | 126             | 6.0             | 3.3            | 3.0            | 7.5             | 96              | 16.6            | 10.0           | 8.5            | 16.0            | 75              | 17.0            | 9.0            | 6.0            | 10.8            |                 |
| 19  | 150 | 9.3             | 4.0            | 12.0           | 17.0            | 128             | 6.0             | 4.0            | 2.5            | 7.0             | 96              | 17.3            | 11.3           | 9.5            | 15.0            | 81              | 11.0            | 10.3           | 6.0            | 11.8            |                 |
| 20  | 150 | 10.0            | 3.3            | 13.0           | 18.5            | 130             | 6.0             | 4.0            | 3.0            | 7.0             | 98              | 15.3            | 9.3            | 9.0            | 16.3            | 82              | 14.0            | 8.0            | 7.0            | 13.0            |                 |
| 21  | 152 | 9.1             | 4.0            | 13.3           | 18.8            | 130             | 6.0             | 4.0            | 2.8            | 7.3             | 98              | 16.0            | 8.0            | 8.5            | 14.0            | 84              | 10.0            | 8.0            | 7.3            | 12.8            |                 |
| 22  | 152 | 10.0            | 4.0            | 13.3           | 18.8            | 130             | 6.0             | 3.1            | 2.5            | 7.0             | 102             | 11.1            | 8.0            | 9.8            | 17.3            | 84              | 8.0             | 9.1            | 9.5            | 15.5            |                 |
| 23  | 152 | 9.1             | 3.1            | 13.5           | 18.8            | 130             | 6.0             | 4.0            | 2.3            | 7.0             | 100             | 15.1            | 4.0            | 9.5            | 17.0            | 84              | 9.1             | 6.0            | 7.5            | 15.5            |                 |

| M-F | RH | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|-----|----|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|     |    | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|     |    | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>L</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00  | 57 | 11.1            | 5.1            | 4.5            | 7.5             | 55              | 7.1             | 2.0            | 4.5            | 7.3             | 31              | 5.1             | 1.1            | 1.8            | 3.0             | 27              |                 |                | 1.3            | 2.0             |                 |
| 01  | 59 | 11.1            | 7.1            | 4.3            | 7.0             | 57              | 5.1             | 7.1            | 4.0            | 7.0             | 31              | 4.0             | 2.0            | 1.5            | 2.5             | 27              | 1.1             | 0.0            | 1.0            | 2.0             |                 |
| 02  | 57 | 12.2            | 5.1            | 5.0            | 8.3             | 57              | 5.1             | 4.0            | 4.0            | 7.0             | 31              | 7.1             | 2.0            | 2.5            | 3.5             | 27              |                 |                | 0.5            | 2.0             |                 |
| 03  | 57 | 14.2            | 4.0            | 4.5            | 7.5             | 55              | 8.0             | 4.0            | 3.5            | 6.5             | 33              | 5.1             | 3.1            | 2.8            | 4.0             | 27              | 2.0             | 0.0            | 1.0            | 2.5             |                 |
| 04  | 57 | 13.1            | 6.0            | 4.8            | 7.5             | 55              | 9.3             | 5.3            | 4.0            | 6.5             | 33              | 5.5             | 4.0            | 2.0            | 3.5             | 27              | 1.1             | 0.0            | 1.0            | 2.0             |                 |
| 05  | 53 | 14.2            | 6.0            | 4.0            | 6.8             | 55              | 6.0             | 6.0            | 3.5            | 7.0             | 37              | 8.2             | 4.0            | 2.5            | 4.5             | 27              |                 |                | 1.0            | 2.5             |                 |
| 06  | 51 | 6.0             | 7.1            | 5.0            | 8.0             | 51              | 5.1             | 4.0            | 4.5            | 7.0             | 41              | 6.0             | 6.0            | 4.0            | 6.5             | 27              |                 |                | 1.0            | 2.5             |                 |
| 07  | 35 | 14.0            | 2.0            | 4.3            | 6.3             | 43              | 4.0             | 4.0            | 3.8            | 5.5             | 39              | 6.0             | 3.1            | 2.8            | 4.5             | 27              | 2.0             | 0.0            | 1.5            | 3.0             |                 |
| 08  | 29 | 8.0             | 4.0            | 3.0            | 4.5             | 35              | 5.1             | 4.0            | 2.0            | 3.0             | 37              | 6.0             | 2.0            | 3.0            | 5.5             | 27              | 2.0             | 0.0            | 1.5            | 2.5             |                 |
| 09  | 25 | 4.2             | 4.0            | 2.3            | 3.5             | 31              | 3.9             | 4.0            | 1.8            | 3.0             | 35              | 4.0             | 7.6            | 2.5            | 4.5             | 27              | 2.0             | 0.2            | 2.0            | 3.5             |                 |
| 10  | 21 | 2.2             | 0.0            | 2.0            | 3.3             | 29              | 3.6             | 4.0            | 1.8            | 3.0             | 33              | 4.0             | 1.9            | 3.0            | 4.8             | 27              | 3.5             | 1.5            | 2.0            | 3.0             |                 |
| 11  | 21 | 2.0             | 1.5            | 2.3            | 3.0             | 27              | 3.3             | 4.0            | 1.5            | 3.0             | 33              | 5.3             | 7.3            | 2.5            | 4.5             | 27              | 4.0             | 2.0            | 2.0            | 3.5             |                 |
| 12  | 21 | 3.3             | 2.0            | 2.0            | 3.0             | 26              | 5.6             | 3.0            | 2.0            | 3.0             | 35              | 2.1             | 2.1            | 2.5            | 4.5             | 27              | 4.0             | 1.5            | 2.5            | 4.0             |                 |
| 13  | 21 | 2.1             | 1.6            | 2.5            | 3.8             | 27              | 5.6             | 3.6            | 1.5            | 2.5             | 35              | 6.6             | 4.0            | 3.5            | 5.5             | 27              | 5.1             | 2.0            | 2.5            | 3.5             |                 |
| 14  | 21 | 5.1             | 0.0            | 2.3            | 3.5             | 29              | 8.0             | 3.1            | 2.0            | 3.0             | 37              | 5.1             | 2.0            | 2.5            | 5.3             | 27              | 4.0             | 2.0            | 2.3            | 3.5             |                 |
| 15  | 25 | 6.0             | 3.1            | 2.0            | 3.5             | 33              | 10.0            | 3.1            | 1.5            | 3.0             | 39              | 6.0             | 3.1            | 3.0            | 5.0             | 27              | 4.0             | 2.0            | 2.0            | 3.5             |                 |
| 16  | 29 | 10.0            | 4.0            | 1.8            | 3.0             | 41              | 6.0             | 6.0            | 2.5            | 3.0             | 45              | 5.1             | 7.1            | 3.3            | 6.3             | 27              | 3.1             | 2.0            | 1.5            | 3.0             |                 |
| 17  | 41 | 10.0            | 8.0            | 2.5            | 4.5             | 51              | 6.0             | 5.3            | 3.5            | 5.5             | 45              | 5.1             | 5.1            | 4.3            | 7.5             | 25              | 2.0             | 0.0            | 1.5            | 2.8             |                 |
| 18  | 51 | 11.1            | 4.0            | 3.0            | 6.0             | 54              | 8.3             | 3.0            | 3.5            | 6.0             | 47              | 4.0             | 8.0            | 3.8            | 6.3             | 25              | 2.0             | 0.0            | 0.5            | 1.5             |                 |
| 19  | 55 | 11.3            | 6.0            | 4.0            | 6.5             | 55              | 7.3             | 5.3            | 4.0            | 6.0             | 45              | 6.0             | 11.5           | 4.5            | 7.0             | 25              | 2.0             | 0.0            | 2.0            | 3.0             |                 |
| 20  | 55 | 11.3            | 4.0            | 4.0            | 7.0             | 55              | 7.3             | 4.0            | 4.5            | 6.5             | 41              | 8.0             | 10.0           | 4.5            | 6.0             | 26              | 1.0             | 1.0            | 2.0            | 3.0             |                 |
| 21  | 55 | 13.1            | 4.0            | 4.0            | 7.0             | 55              | 9.1             | 4.0            | 4.5            | 7.8             | 37              | 12.0            | 7.3            | 2.5            | 4.8             | 27              |                 |                | 1.8            | 3.0             |                 |
| 22  | 57 | 10.0            | 4.0            | 4.5            | 7.5             | 53              | 8.0             | 2.0            | 3.5            | 6.5             | 35              | 4.0             | 6.0            | 3.3            | 4.8             | 27              |                 |                | 1.5            | 2.8             |                 |
| 23  | 58 | 9.6             | 5.0            | 4.5            | 7.3             | 55              | 7.1             | 4.0            | 4.0            | 7.0             | 33              | 4.0             | 2.0            | 3.0            | 4.5             | 27              |                 |                | 1.5            | 2.8             |                 |

\* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>L</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.

D<sub>u</sub> = ratio of upper decile to median in db.

D<sub>L</sub> = ratio of median to lower decile in db.

V<sub>dm</sub> = median deviation of average voltage in db below mean power.

L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

# MONTH-HOUR VALUES OF RADIO NOISE

STATION BILI, WYOMING

LAT. 43.2 N

LONG. 105.2 W

APRIL

1965

| TIME | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|      | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .150            |                |                |                 |                 | .495            |                |                |                 |                 |
|      | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00   | 158             | 6.0            | 7.3            | 10.0            | 14.3            | 136             | 6.0            | 6.0            | 4.8             | 8.8             | 113             | 6.0            | 13.5           | 5.3             | 10.5            | 96              | 9.3            | 13.3           | 5.0             | 9.8             |
| 01   | 159             | 5.0            | 6.3            | 9.8             | 15.5            | 136             | 6.0            | 8.0            | 5.0             | 9.0             | 114             | 7.0            | 12.3           | 5.8             | 11.3            | 94              | 11.3           | 10.0           | 4.3             | 8.8             |
| 02   | 158             | 6.0            | 6.0            | 10.0            | 16.0            | 125             | 7.0            | 5.0            | 5.8             | 9.5             | 113             | 8.0            | 12.6           | 6.3             | 12.3            | 94              | 8.0            | 12.0           | 4.8             | 10.8            |
| 03   | 158             | 4.0            | 6.0            | 9.3             | 15.8            | 134             | 6.0            | 5.3            | 4.5             | 8.3             | 111             | 8.0            | 13.3           | 6.0             | 13.0            | 91              | 9.0            | 14.8           | 6.0             | 12.0            |
| 04   | 158             | 4.0            | 6.0            | 10.3            | 16.0            | 132             | 8.0            | 4.0            | 3.8             | 7.5             | 104             | 13.0           | 15.0           | 6.5             | 13.5            | 73              | 21.0           | 10.3           | 9.0             | 14.5            |
| 05   | 154             | 6.0            | 4.0            | 11.0            | 16.5            | 127             | 9.0            | 7.0            | 6.5             | 11.5            | 92              | 18.3           | 20.3           | 8.3             | 14.3            | 58              | 21.8           | 8.0            | 4.5             | 11.0            |
| 06   | 152             | 9.3            | 4.0            | 10.0            | 16.5            | 125             | 10.3           | 3.0            | 4.8             | 8.5             | 85              | 24.0           | 14.0           | 8.8             | 16.3            | 54              | 18.6           | 4.0            | 3.0             | 5.0             |
| 07   | 152             | 7.3            | 5.3            | 11.0            | 17.5            | 120             | 15.3           | 4.0            | 5.0             | 8.0             | 83              | 27.0           | 17.0           | 9.5             | 15.5            | 54              | 20.0           | 4.0            | 2.3             | 4.0             |
| 08   | 152             | 9.5            | 7.5            | 11.0            | 17.5            | 122             | 8.0            | 7.5            | 7.0             | 11.3            | 83              | 21.9           | 19.6           | 10.0            | 17.0            | 54              | 18.9           | 4.0            | 2.5             | 4.5             |
| 09   | 152             | 8.0            | 6.0            | 11.0            | 18.0            | 122             | 7.4            | 4.0            | 7.0             | 11.0            | 81              | 19.4           | 7.1            | 9.0             | 17.0            | 54              | 18.5           | 4.0            | 1.5             | 3.5             |
| 10   | 154             | 7.9            | 5.9            | 12.0            | 18.0            | 123             | 7.4            | 5.0            | 7.5             | 12.0            | 83              | 21.5           | 13.7           | 9.0             | 18.5            | 56              | 17.7           | 5.7            | 3.3             | 6.0             |
| 11   | 154             | 5.7            | 5.7            | 12.0            | 18.0            | 124             | 6.3            | 2.3            | 6.0             | 10.5            | 89              | 16.7           | 12.0           | 9.8             | 18.8            | 56              | 15.6           | 2.0            | 2.0             | 4.5             |
| 12   | 156             | 3.6            | 6.1            | 10.0            | 16.0            | 126             | 6.0            | 4.0            | 5.5             | 9.8             | 89              | 20.0           | 9.5            | 9.3             | 17.3            | 59              | 21.2           | 5.0            | 1.5             | 5.0             |
| 13   | 156             | 4.0            | 4.0            | 10.5            | 16.3            | 126             | 8.0            | 4.0            | 5.0             | 9.0             | 95              | 17.3           | 14.6           | 9.0             | 16.5            | 60              | 18.0           | 6.0            | 5.0             | 7.5             |
| 14   | 156             | 6.0            | 4.0            | 9.8             | 15.5            | 130             | 5.5            | 8.0            | 6.3             | 10.3            | 97              | 17.7           | 14.1           | 11.0            | 18.3            | 62              | 26.4           | 7.5            | 6.0             | 9.0             |
| 15   | 157             | 5.0            | 6.3            | 9.8             | 16.0            | 129             | 9.0            | 9.0            | 8.0             | 11.8            | 100             | 16.3           | 20.3           | 9.0             | 15.8            | 65              | 23.0           | 9.0            | 7.3             | 13.0            |
| 16   | 157             | 5.0            | 6.3            | 10.3            | 16.0            | 130             | 6.0            | 9.3            | 7.0             | 12.0            | 104             | 11.0           | 22.8           | 9.5             | 17.0            | 66              | 25.3           | 10.0           | 8.0             | 11.5            |
| 17   | 155             | 7.0            | 4.3            | 9.0             | 14.8            | 131             | 7.0            | 11.6           | 7.3             | 12.0            | 105             | 13.3           | 16.0           | 7.8             | 15.0            | 74              | 21.1           | 17.3           | 4.5             | 8.0             |
| 18   | 156             | 6.0            | 6.0            | 9.8             | 15.3            | 132             | 7.3            | 9.3            | 6.8             | 10.8            | 111             | 7.3            | 13.3           | 6.0             | 11.0            | 84              | 12.0           | 17.3           | 4.5             | 11.0            |
| 19   | 157             | 6.3            | 5.0            | 10.0            | 15.5            | 134             | 6.0            | 9.3            | 6.5             | 11.0            | 113             | 6.0            | 10.6           | 6.3             | 12.5            | 92              | 7.3            | 16.0           | 4.3             | 9.5             |
| 20   | 158             | 5.3            | 6.0            | 9.3             | 15.3            | 134             | 7.3            | 6.0            | 6.0             | 9.5             | 115             | 4.0            | 12.0           | 6.3             | 12.3            | 94              | 8.0            | 12.0           | 4.8             | 9.5             |
| 21   | 158             | 6.0            | 8.0            | 9.5             | 16.0            | 135             | 7.0            | 5.0            | 4.5             | 8.3             | 114             | 7.0            | 14.3           | 5.0             | 11.0            | 94              | 11.3           | 11.3           | 4.0             | 9.0             |
| 22   | 158             | 6.0            | 8.0            | 9.8             | 15.8            | 134             | 8.0            | 4.0            | 4.5             | 8.3             | 113             | 9.3            | 12.0           | 5.5             | 12.0            | 95              | 10.3           | 11.0           | 5.0             | 11.3            |
| 23   | 158             | 6.0            | 7.3            | 10.5            | 17.0            | 136             | 6.0            | 6.0            | 4.8             | 8.0             | 113             | 8.0            | 12.6           | 5.8             | 12.0            | 96              | 8.0            | 12.0           | 5.0             | 10.5            |

| TIME | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|      | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|      | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00   | 68              | 7.3            | 15.3           | 4.3             | 7.3             | 58              | 7.3            | 6.6            | 4.0             | 7.5             | 33              | 6.1            | 4.1            | 3.5             | 6.0             | 26              |                |                | 1.0             | 2.0             |
| 01   | 70              | 4.0            | 14.6           | 4.5             | 7.5             | 58              | 8.0            | 5.3            | 4.5             | 8.0             | 35              | 6.0            | 5.3            | 3.0             | 5.0             | 26              |                |                | 1.0             | 2.0             |
| 02   | 68              | 8.0            | 10.0           | 4.8             | 7.5             | 58              | 4.0            | 4.6            | 4.5             | 8.5             | 35              | 4.0            | 4.0            | 2.5             | 4.5             | 26              |                |                | 1.0             | 2.3             |
| 03   | 68              | 8.0            | 11.3           | 4.8             | 8.3             | 58              | 4.0            | 5.3            | 4.3             | 7.5             | 33              | 7.3            | 4.0            | 2.5             | 4.0             | 26              |                |                | 1.0             | 2.5             |
| 04   | 67              | 7.0            | 12.3           | 5.0             | 10.0            | 58              | 4.0            | 11.3           | 4.8             | 8.3             | 39              | 4.0            | 11.5           | 3.5             | 6.3             | 26              |                |                | 1.0             | 2.5             |
| 05   | 52              | 15.3           | 8.0            | 7.5             | 13.5            | 54              | 8.0            | 6.0            | 4.8             | 7.8             | 41              | 6.0            | 9.0            | 3.3             | 6.3             | 26              |                |                | 1.0             | 2.5             |
| 06   | 46              | 13.3           | 14.0           | 6.0             | 10.5            | 45              | 12.3           | 7.0            | 4.8             | 7.3             | 42              | 6.3            | 6.3            | 4.0             | 6.5             | 26              |                |                | 1.0             | 2.5             |
| 07   | 32              | 18.0           | 7.3            | 4.3             | 6.0             | 38              | 11.1           | 6.0            | 3.3             | 5.3             | 39              | 8.6            | 5.3            | 3.3             | 5.5             | 26              | 1.3            | 2.0            | 1.5             | 2.5             |
| 08   | 26              | 13.5           | 6.0            | 2.5             | 4.0             | 32              | 14.4           | 6.0            | 4.0             | 5.5             | 37              | 7.9            | 6.1            | 2.8             | 4.5             | 26              | 0.9            | 2.9            | 1.5             | 2.5             |
| 09   | 22              | 6.7            | 4.0            | 2.0             | 3.5             | 30              | 6.7            | 4.7            | 2.5             | 3.5             | 35              | 8.2            | 6.0            | 2.5             | 3.5             | 24              | 2.0            | 0.0            | 1.3             | 2.5             |
| 10   | 22              | 6.3            | 4.0            | 2.0             | 3.5             | 30              | 10.0           | 8.0            | 2.5             | 4.0             | 35              | 5.7            | 6.0            | 4.0             | 6.0             | 24              | 2.0            | 2.0            | 1.5             | 2.5             |
| 11   | 22              | 4.1            | 3.9            | 2.3             | 3.5             | 30              | 8.0            | 6.3            | 3.0             | 4.5             | 33              | 7.7            | 5.7            | 2.5             | 4.0             | 24              | 2.1            | 2.0            | 1.0             | 2.5             |
| 12   | 22              | 3.7            | 2.0            | 2.5             | 4.0             | 31              | 8.6            | 9.1            | 5.0             | 7.8             | 35              | 7.5            | 4.0            | 3.5             | 6.5             | 24              | 4.0            | 2.0            | 1.5             | 3.0             |
| 13   | 22              | 8.0            | 2.0            | 3.0             | 4.5             | 26              | 5.3            | 12.0           | 5.0             | 8.0             | 37              | 8.0            | 4.0            | 4.5             | 7.5             | 24              | 6.0            | 1.3            | 1.5             | 3.0             |
| 14   | 24              | 14.0           | 4.0            | 2.5             | 4.0             | 36              | 11.0           | 10.0           | 4.5             | 6.5             | 41              | 3.3            | 9.3            | 4.0             | 7.8             | 26              | 4.0            | 2.0            | 1.5             | 3.0             |
| 15   | 27              | 29.6           | 5.0            | 3.0             | 4.5             | 44              | 9.0            | 14.0           | 4.0             | 7.5             | 43              | 6.0            | 7.3            | 4.0             | 7.5             | 26              | 4.0            | 2.0            | 2.0             | 3.5             |
| 16   | 36              | 19.3           | 10.0           | 3.5             | 7.5             | 48              | 8.0            | 14.0           | 5.0             | 8.3             | 45              | 6.0            | 5.3            | 4.5             | 7.5             | 26              | 3.3            | 2.0            | 1.5             | 3.0             |
| 17   | 48              | 12.0           | 16.0           | 5.0             | 10.0            | 54              | 6.0            | 10.0           | 4.0             | 7.5             | 47              | 5.3            | 5.3            | 4.5             | 7.5             | 26              | 4.0            | 2.0            | 1.5             | 3.0             |
| 18   | 60              | 6.0            | 14.6           | 5.3             | 9.3             | 60              | 4.0            | 6.0            | 4.0             | 7.5             | 49              | 5.3            | 3.3            | 4.3             | 8.0             | 26              | 1.3            | 2.0            | 1.3             | 2.8             |
| 19   | 66              | 7.3            | 11.3           | 5.0             | 9.0             | 60              | 6.0            | 4.0            | 4.5             | 8.0             | 47              | 6.0            | 5.3            | 4.5             | 7.5             | 26              |                |                | 1.0             | 2.5             |
| 20   | 68              | 5.3            | 10.0           | 4.5             | 8.5             | 60              | 6.0            | 4.0            | 4.8             | 8.0             | 47              | 6.0            | 6.0            | 5.0             | 7.5             | 25              | 1.0            | 1.0            | 1.0             | 2.5             |
| 21   | 69              | 6.3            | 12.3           | 4.8             | 8.0             | 61              | 4.3            | 7.0            | 5.0             | 8.5             | 42              | 7.0            | 6.3            | 4.0             | 6.0             | 26              |                |                | 1.0             | 2.0             |
| 22   | 68              | 7.5            | 12.0           | 4.8             | 7.8             | 59              | 5.0            | 5.0            | 5.0             | 8.5             | 37              | 6.0            | 5.3            | 3.0             | 5.0             | 26              |                |                | 0.8             | 2.3             |
| 23   | 68              | 6.0            | 11.3           | 4.0             | 7.5             | 58              | 6.0            | 5.3            | 5.0             | 7.5             | 35              | 7.3            | 8.6            | 3.0             | 5.3             | 26              |                |                | 1.3             | 2.5             |

※ Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

※ Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.

D<sub>u</sub> = ratio of upper decile to median in db.

D<sub>l</sub> = ratio of median to lower decile in db.

V<sub>dm</sub> = median deviation of average voltage in db below mean power.

L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

MONTH-HOUR VALUES OF RADIO NOISE

STATION BILL, WYOMING

LAT. 43.2 N

LONG. 105.2 W

MAY

1965

| H. R. L. S. T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|                | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|                | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00             | 163             | 5.5            | 5.5            | 10.3            | 16.3            | 140             | 6.0            | 4.0            | 5.5             | 9.0             | 117             | 8.0            | 11.5           | 6.0             | 12.3            | 98              | 6.0            | 9.5            | 5.0             | 10.5            |
| 01             | 163             | 4.0            | 7.5            | 10.5            | 17.3            | 140             | 5.5            | 5.5            | 5.5             | 9.0             | 118             | 7.0            | 12.7           | 7.0             | 13.5            | 98              | 6.0            | 13.5           | 5.5             | 12.0            |
| 02             | 161             | 6.0            | 5.5            | 11.0            | 14.5            | 140             | 4.0            | 6.0            | 4.5             | 8.0             | 118             | 5.2            | 19.4           | 6.8             | 13.0            | 98              | 4.0            | 17.0           | 6.3             | 12.5            |
| 03             | 161             | 6.0            | 7.0            | 10.5            | 18.0            | 138             | 6.0            | 4.0            | 4.8             | 8.0             | 114             | 8.7            | 14.6           | 8.5             | 16.5            | 87              | 10.7           | 8.8            | 8.5             | 16.8            |
| 04             | 161             | 2.0            | 6.0            | 11.0            | 17.5            | 134             | 3.7            | 4.0            | 5.0             | 8.5             | 101             | 16.0           | 13.5           | 9.3             | 16.5            | 66              | 17.5           | 11.5           | 6.3             | 11.8            |
| 05             | 159             | 4.0            | 5.5            | 11.8            | 18.8            | 130             | 8.0            | 4.0            | 6.5             | 10.3            | 99              | 16.0           | 26.4           | 9.5             | 17.5            | 60              | 25.0           | 9.5            | 7.3             | 11.0            |
| 06             | 159             | 4.0            | 6.0            | 11.0            | 17.8            | 130             | 8.0            | 5.5            | 7.0             | 10.0            | 101             | 14.0           | 32.4           | 11.0            | 20.5            | 60              | 22.0           | 10.0           | 6.3             | 10.3            |
| 07             | 159             | 4.0            | 7.5            | 12.5            | 18.8            | 130             | 7.5            | 7.5            | 6.5             | 10.0            | 99              | 18.0           | 22.0           | 10.0            | 19.3            | 60              | 23.6           | 9.6            | 5.5             | 8.5             |
| 08             | 159             | 3.9            | 5.9            | 12.8            | 20.0            | 129             | 9.0            | 6.7            | 6.8             | 10.3            | 99              | 15.9           | 32.9           | 12.3            | 20.3            | 60              | 21.4           | 8.0            | 4.3             | 7.5             |
| 09             | 159             | 4.2            | 5.9            | 11.5            | 18.5            | 130             | 6.3            | 6.3            | 6.5             | 10.5            | 101             | 16.6           | 22.2           | 9.8             | 19.5            | 60              | 22.0           | 8.7            | 5.0             | 7.0             |
| 10             | 161             | 8.5            | 8.3            | 12.0            | 19.5            | 132             | 7.3            | 8.1            | 6.0             | 8.8             | 101             | 16.0           | 24.0           | 12.0            | 20.3            | 60              | 31.6           | 6.1            | 4.5             | 7.3             |
| 11             | 163             | 3.5            | 8.0            | 11.5            | 18.0            | 134             | 8.0            | 7.5            | 5.5             | 8.5             | 103             | 18.1           | 22.9           | 10.0            | 17.5            | 64              | 41.7           | 10.0           | 4.0             | 6.5             |
| 12             | 163             | 6.0            | 7.5            | 9.3             | 14.8            | 136             | 9.3            | 7.3            | 5.0             | 8.3             | 107             | 25.2           | 15.5           | 7.8             | 15.3            | 70              | 43.6           | 16.1           | 5.0             | 9.0             |
| 13             | 165             | 4.0            | 9.5            | 9.0             | 14.8            | 138             | 9.3            | 9.3            | 5.5             | 9.0             | 113             | 16.0           | 19.5           | 7.8             | 13.0            | 76              | 31.3           | 21.3           | 5.5             | 12.0            |
| 14             | 165             | 6.0            | 6.0            | 7.8             | 13.0            | 138             | 14.0           | 8.0            | 4.5             | 7.5             | 115             | 17.8           | 21.3           | 7.3             | 12.3            | 89              | 24.1           | 34.3           | 4.8             | 11.0            |
| 15             | 165             | 7.3            | 5.3            | 8.0             | 12.8            | 138             | 13.9           | 7.5            | 6.0             | 10.0            | 118             | 17.6           | 18.8           | 8.3             | 14.0            | 86              | 32.6           | 28.0           | 5.5             | 10.5            |
| 16             | 165             | 6.0            | 5.3            | 8.5             | 14.0            | 140             | 7.3            | 9.3            | 6.0             | 10.3            | 119             | 10.0           | 20.6           | 6.0             | 11.5            | 87              | 20.3           | 28.3           | 5.0             | 10.0            |
| 17             | 165             | 4.0            | 4.0            | 7.8             | 12.5            | 140             | 12.6           | 8.0            | 5.8             | 10.5            | 119             | 21.1           | 20.6           | 5.5             | 10.0            | 86              | 23.3           | 25.3           | 6.0             | 11.0            |
| 18             | 163             | 7.3            | 4.6            | 6.8             | 11.5            | 139             | 11.6           | 7.0            | 6.5             | 10.5            | 119             | 15.8           | 21.7           | 4.8             | 9.3             | 89              | 25.6           | 18.3           | 5.3             | 11.0            |
| 19             | 163             | 9.5            | 5.5            | 7.5             | 13.0            | 140             | 13.5           | 9.0            | 5.3             | 9.3             | 121             | 10.1           | 14.8           | 4.5             | 8.5             | 94              | 14.0           | 10.0           | 4.0             | 7.5             |
| 20             | 165             | 5.5            | 5.5            | 7.5             | 13.0            | 142             | 7.5            | 7.5            | 6.0             | 10.0            | 120             | 10.2           | 10.7           | 4.5             | 9.0             | 98              | 9.5            | 13.5           | 4.0             | 8.5             |
| 21             | 165             | 3.5            | 8.0            | 9.3             | 15.3            | 142             | 5.5            | 7.5            | 5.5             | 9.5             | 121             | 6.0            | 8.0            | 5.3             | 10.3            | 98              | 7.5            | 9.5            | 4.0             | 8.5             |
| 22             | 163             | 4.0            | 5.5            | 9.3             | 16.0            | 142             | 4.0            | 5.5            | 5.5             | 9.5             | 119             | 7.5            | 8.0            | 6.8             | 12.5            | 100             | 4.0            | 10.0           | 5.5             | 11.0            |
| 23             | 163             | 4.0            | 6.0            | 10.0            | 14.8            | 142             | 4.0            | 6.0            | 5.3             | 8.8             | 118             | 7.1            | 8.3            | 6.0             | 13.0            | 100             | 4.0            | 11.6           | 5.0             | 11.3            |

| H. R. L. S. T. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|                | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|                | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00             | 73              | 7.3            | 12.0           | 5.0             | 7.5             | 63              | 5.3            | 7.3            | 4.3             | 7.5             | 42              | 5.5            | 7.5            | 4.0             | 6.5             | 28              | 2.0            | 0.0            | 1.5             | 2.5             |
| 01             | 73              | 5.3            | 12.0           | 4.0             | 8.0             | 62              | 5.0            | 7.6            | 4.5             | 7.5             | 40              | 8.0            | 4.0            | 3.5             | 5.3             | 26              | 2.0            | 0.0            | 0.5             | 2.0             |
| 02             | 74              | 5.0            | 15.0           | 4.5             | 7.5             | 61              | 6.0            | 8.0            | 4.5             | 7.5             | 40              | 8.0            | 7.5            | 3.5             | 5.5             | 26              | 2.0            | 0.0            | 0.5             | 2.0             |
| 03             | 73              | 6.0            | 15.3           | 5.8             | 9.8             | 59              | 7.3            | 8.0            | 5.0             | 7.8             | 40              | 6.0            | 7.5            | 3.0             | 6.0             | 26              | 2.0            | 0.0            | 0.8             | 2.0             |
| 04             | 63              | 9.5            | 9.5            | 5.8             | 9.3             | 57              | 6.0            | 8.0            | 5.0             | 8.5             | 42              | 4.0            | 4.0            | 4.5             | 7.5             | 26              | 2.0            | 0.0            | 1.5             | 2.5             |
| 05             | 49              | 12.0           | 6.0            | 5.5             | 8.8             | 51              | 9.3            | 6.0            | 5.0             | 8.0             | 42              | 6.0            | 9.0            | 3.8             | 6.5             | 26              | 2.0            | 0.0            | 1.0             | 2.5             |
| 06             | 42              | 14.3           | 8.3            | 5.8             | 9.5             | 46              | 11.6           | 8.3            | 4.5             | 7.5             | 40              | 8.0            | 4.0            | 4.3             | 6.8             | 26              | 4.0            | 0.0            | 0.5             | 2.5             |
| 07             | 32              | 15.0           | 5.0            | 3.5             | 5.3             | 41              | 13.3           | 9.3            | 4.5             | 6.5             | 40              | 6.1            | 7.7            | 4.5             | 6.5             | 26              | 2.0            | 0.1            | 2.0             | 3.0             |
| 08             | 27              | 15.9           | 4.1            | 3.0             | 4.5             | 37              | 14.0           | 8.1            | 4.5             | 7.0             | 40              | 4.0            | 6.2            | 4.5             | 7.0             | 26              | 2.0            | 2.0            | 1.5             | 2.5             |
| 09             | 25              | 12.4           | 4.0            | 2.0             | 3.5             | 35              | 14.0           | 8.3            | 4.8             | 7.0             | 38              | 4.3            | 6.0            | 5.0             | 8.0             | 26              | 4.0            | 2.0            | 1.5             | 3.3             |
| 10             | 25              | 32.4           | 4.0            | 2.5             | 4.0             | 34              | 17.0           | 7.2            | 4.5             | 7.0             | 38              | 7.3            | 8.0            | 3.8             | 6.3             | 26              | 2.0            | 2.0            | 1.5             | 3.0             |
| 11             | 25              | 31.5           | 4.0            | 2.5             | 4.0             | 34              | 15.8           | 7.1            | 4.5             | 7.5             | 38              | 4.0            | 6.0            | 4.8             | 7.5             | 27              | 4.8            | 1.0            | 2.0             | 3.5             |
| 12             | 25              | 37.4           | 4.0            | 3.5             | 5.0             | 37              | 20.4           | 9.5            | 6.0             | 9.0             | 40              | 15.0           | 7.9            | 4.0             | 7.0             | 28              | 15.6           | 2.0            | 2.0             | 3.5             |
| 13             | 27              | 43.3           | 6.0            | 5.0             | 6.5             | 41              | 17.1           | 12.0           | 5.5             | 9.0             | 44              | 4.0            | 9.3            | 4.5             | 7.0             | 28              | 4.0            | 2.0            | 2.0             | 3.5             |
| 14             | 36              | 35.9           | 15.0           | 8.5             | 13.0            | 45              | 17.1           | 11.1           | 5.5             | 9.0             | 45              | 6.3            | 7.0            | 3.8             | 7.0             | 28              | 9.3            | 2.0            | 2.0             | 3.5             |
| 15             | 41              | 35.2           | 17.1           | 5.5             | 11.5            | 47              | 20.0           | 11.8           | 5.5             | 8.8             | 46              | 11.1           | 5.1            | 3.3             | 6.5             | 28              | 12.2           | 2.0            | 2.0             | 4.0             |
| 16             | 49              | 30.0           | 19.3           | 6.3             | 10.0            | 53              | 12.0           | 12.2           | 5.0             | 8.0             | 48              | 5.3            | 5.3            | 4.0             | 7.0             | 28              | 8.0            | 2.0            | 2.0             | 3.5             |
| 17             | 53              | 17.1           | 13.1           | 5.3             | 8.5             | 59              | 9.1            | 11.1           | 5.0             | 8.0             | 50              | 8.2            | 6.0            | 4.0             | 7.0             | 30              | 5.1            | 4.0            | 2.0             | 3.8             |
| 18             | 59              | 16.3           | 6.0            | 4.5             | 7.5             | 63              | 6.0            | 11.1           | 3.3             | 6.3             | 52              | 4.0            | 4.0            | 4.3             | 7.5             | 30              | 5.3            | 4.0            | 2.5             | 4.0             |
| 19             | 69              | 21.6           | 9.1            | 3.5             | 6.5             | 67              | 4.0            | 7.3            | 3.0             | 6.0             | 53              | 6.3            | 5.0            | 4.8             | 8.0             | 28              | 3.3            | 2.0            | 2.0             | 3.0             |
| 20             | 74              | 8.3            | 15.4           | 3.8             | 6.5             | 67              | 5.3            | 9.3            | 4.0             | 7.3             | 52              | 5.5            | 8.0            | 5.0             | 7.8             | 28              | 6.6            | 2.0            | 1.5             | 3.0             |
| 21             | 74              | 7.0            | 9.6            | 4.5             | 8.5             | 65              | 6.0            | 5.3            | 4.5             | 8.0             | 48              | 4.0            | 7.5            | 5.0             | 8.0             | 28              | 1.3            | 2.0            | 1.5             | 2.5             |
| 22             | 74              | 7.0            | 9.0            | 4.8             | 8.0             | 65              | 6.0            | 8.0            | 4.5             | 7.5             | 44              | 6.0            | 7.5            | 4.5             | 8.0             | 28              |                |                | 1.8             | 3.0             |
| 23             | 73              | 8.0            | 10.0           | 5.0             | 8.0             | 63              | 6.0            | 7.3            | 4.5             | 8.0             | 42              | 6.0            | 7.5            | 3.5             | 6.5             | 28              | 1.5            | 2.0            | 1.0             | 2.5             |

\* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.

D<sub>u</sub> = ratio of upper decile to median in db.

D<sub>l</sub> = ratio of median to lower decile in db.

V<sub>dm</sub> = median deviation of average voltage in db below mean power.

L<sub>dm</sub> = median deviation of average logarithm in db below mean power.

# MONTH-HOUR VALUES OF RADIO NOISE

STATION BOULDER, COLORADO

LAT. 40.1 N

LONG. 105.1 W

MARCH 1965

| H. R. | M.  | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|-------|-----|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|       |     | .013            |                |                |                 |                 | .051            |                |                |                 |                 | .160            |                |                |                 |                 | .495            |                |                |                 |                 |
|       |     | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00    | 150 | 13.7            | 4.3            | 13.3           | 19.8            | 134             | 10.0            | 6.8            | * 4.3          | * 8.3           | 115             | 10.8            | 27.1           | 8.5            | 16.5            | 99              | 8.6             | 24.0           | 8.5            | 17.0            |                 |
| 01    | 149 | 13.1            | 3.2            | 13.5           | 20.0            | 136             | 6.5             | 6.5            | * 4.0          | * 8.3           | *105            |                 |                | * 7.5          | *13.8           | 93              | 16.1            | 19.9           | 7.0            | 16.0            |                 |
| 02    | 148 | 10.0            | 3.9            | 12.3           | 19.3            | 136             | 8.3             | 4.3            | 3.5            | 8.0             | 114             | 16.4            | 23.3           | 8.5            | 16.5            | 93              | 18.1            | 21.9           | 6.0            | 11.5            |                 |
| 03    | 148 | 8.2             | 2.3            | 12.5           | 19.0            | 136             | 8.0             | 6.1            | * 3.5          | * 7.8           | *105            |                 |                | *10.0          | *14.8           | 89              | 22.5            | 18.5           | 6.0            | 14.0            |                 |
| 04    | 148 | 12.4            | 4.1            | 12.5           | 19.0            | 136             | 10.0            | 6.4            | 3.8            | 8.3             | 106             | 25.8            | 21.9           | 7.0            | 12.5            | 83              | 26.5            | 18.5           | 7.5            | 10.0            |                 |
| 05    | 148 | 12.5            | 4.0            | 12.5           | 19.0            | 136             | 6.9             | 6.0            | * 4.0          | * 9.0           | * 93            |                 |                | * 5.5          | * 7.8           | 79              | 10.0            | 16.0           | 6.5            | 9.5             |                 |
| 06    | 148 | 5.1             | 6.0            | 12.0           | 18.5            | 126             | 11.4            | 8.0            | * 4.0          | * 7.5           | 90              | 24.2            | 15.9           | 3.5            | 7.5             | 74              | 5.1             | 13.2           | 4.5            | 7.0             |                 |
| 07    | 144 | 10.5            | 4.2            | 11.0           | 17.5            | 130             | 4.0             | 4.5            | 3.5            | 8.0             | 88              | 4.2             | 14.0           | * 4.0          | * 6.0           | 73              | 4.2             | 12.0           | 4.0            | 6.5             |                 |
| 08    | 144 | 8.6             | 4.2            | 11.5           | 16.8            | 126             | 6.0             | 7.0            | 3.5            | 8.0             | 90              | 17.8            | 15.6           | 6.0            | 8.5             | 75              | 4.0             | 7.4            | 3.5            | 6.5             |                 |
| 09    | 145 | 11.6            | 5.9            | 11.5           | 16.8            | 124             | 7.3             | 8.0            | * 3.5          | * 8.0           | 88              | 12.3            | 14.3           | * 3.0          | * 5.0           | 75              | 4.0             | 8.7            | * 3.5          | * 5.0           |                 |
| 10    | 147 | 13.5            | 5.0            | 10.8           | 16.3            | 126             | 4.0             | 5.1            | * 3.3          | * 7.8           | * 89            |                 |                | 5.3            | 9.5             | 73              | 4.0             | 8.3            | 3.0            | 5.0             |                 |
| 11    | 147 | 10.9            | 4.0            | 11.3           | 17.0            | 130             | 4.7             | 4.7            | * 3.5          | * 8.5           | * 86            |                 |                | * 4.5          | * 7.0           | 73              | 6.0             | 6.0            | * 2.8          | * 5.0           |                 |
| 12    | 148 | 10.3            | 4.1            | 10.5           | 16.5            | 130             | 4.7             | 4.0            | * 3.0          | * 7.5           | 92              | 19.0            | 18.1           | 4.5            | 8.0             | 73              | 6.0             | 10.0           | 3.8            | 5.5             |                 |
| 13    | 148 | 8.2             | 4.0            | 11.0           | 17.5            | 131             | 5.0             | 3.9            | 3.0            | 8.0             | * 87            |                 |                | * 5.3          | * 9.3           | 73              | 8.0             | 8.0            | * 3.0          | * 5.5           |                 |
| 14    | 148 | 10.3            | 6.3            | 11.0           | 17.5            | 130             | 4.0             | 4.0            | * 4.0          | * 8.0           | 92              | 17.5            | 18.1           | 4.5            | 8.0             | 73              | 6.3             | 8.0            | * 3.8          | * 6.0           |                 |
| 15    | 148 | 8.3             | 6.0            | 12.0           | 18.0            | 127             | 5.0             | 2.3            | 3.5            | 8.0             | * 88            |                 |                | * 3.5          | * 5.0           | 73              | 6.5             | 9.0            | 3.0            | 5.5             |                 |
| 16    | 146 | 11.9            | 4.1            | 12.5           | 18.3            | 124             | 8.5             | 8.0            | 4.0            | 8.5             | 96              | 14.0            | 19.5           | 4.5            | 7.5             | 74              | 5.0             | 12.9           | 4.0            | 6.0             |                 |
| 17    | 144 | 12.2            | 3.9            | 11.5           | 17.5            | 126             | 10.0            | 6.0            | 3.3            | 7.3             | * 93            |                 |                | * 7.5          | *12.0           | 77              | 14.6            | 12.0           | 4.8            | 9.0             |                 |
| 18    | 146 | 8.4             | 4.1            | 12.0           | 17.8            | 132             | 2.5             | 2.0            | * 3.0          | * 7.5           | 104             | 23.7            | 16.1           | 7.8            | 13.3            | 83              | 24.0            | 14.0           | 7.0            | 11.0            |                 |
| 19    | 148 | 12.6            | 4.3            | 12.0           | 19.0            | 130             | 5.9             | 2.1            | 3.5            | 7.8             | * 98            |                 |                | *10.5          | *15.5           | 89              | 18.0            | 18.0           | 6.0            | 11.0            |                 |
| 20    | 148 | 16.6            | 6.1            | 13.0           | 20.0            | 132             | 7.7             | 2.1            | * 3.8          | * 7.8           | *106            | 24.0            | 19.5           | 7.5            | 13.5            | 91              | 19.9            | 19.7           | 6.0            | 11.0            |                 |
| 21    | 148 | 13.7            | 5.6            | 13.3           | 20.0            | 134             | 5.7             | 4.0            | * 3.0          | * 7.0           | *100            |                 |                | * 8.5          | *12.5           | 94              | 14.6            | 20.6           | 6.5            | 11.0            |                 |
| 22    | 148 | 16.2            | 5.9            | 13.3           | 20.0            | 134             | 8.3             | 8.3            | 4.0            | 8.5             | 110             | 13.5            | 21.5           | 8.5            | 15.0            | 95              | 13.9            | 19.9           | 7.0            | 12.3            |                 |
| 23    | 148 | 13.4            | 5.7            | 13.5           | 19.5            | 133             | 8.9             | 5.1            | 3.8            | 8.3             | 104             | 11.1            | 12.6           | * 9.0          | *13.0           | 95              | 15.5            | 20.1           | 6.8            | 13.0            |                 |

| H. R. | M. | FREQUENCY (Mc)  |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |                 |                |                |                 |                 |
|-------|----|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
|       |    | 2.5             |                |                |                 |                 | 5               |                |                |                 |                 | 10              |                |                |                 |                 | 20              |                |                |                 |                 |
|       |    | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> | F <sub>am</sub> | D <sub>u</sub> | D <sub>l</sub> | V <sub>dm</sub> | L <sub>dm</sub> |
| 00    | 59 | 10.2            | 5.6            | * 5.0          | * 8.5           | 58              | 6.1             | 5.6            | * 5.0          | * 9.0           | 34              | 2.0             | 3.3            | * 3.5          | * 4.5           | 24              | 2.0             | 0.1            | * 3.5          | * 4.5           |                 |
| 01    | 59 | 13.9            | 6.0            | * 5.0          | * 7.0           | 58              | 6.2             | 4.1            | * 6.5          | * 9.5           | 34              | 5.1             | 4.0            |                |                 | 24              | 2.0             | 0.0            | * 3.0          | * 4.0           |                 |
| 02    | 59 | 14.4            | 6.0            | 5.0            | 7.5             | 58              | 9.0             | 6.0            | * 5.5          | * 9.0           | 34              | 4.5             | 4.0            |                |                 | 24              | 2.0             | 0.0            | * 1.5          | * 3.0           |                 |
| 03    | 59 | 12.0            | 8.0            | * 5.5          | * 8.0           | 60              | 2.1             | 7.7            |                |                 | 34              | 7.7             | 4.0            | * 4.0          | * 4.5           | 24              | 2.0             | 0.0            | * 2.5          | * 3.0           |                 |
| 04    | 55 | 16.0            | 4.0            | * 4.5          | * 6.0           | 58              | 10.0            | 7.5            | * 5.0          | * 8.5           | 34              | 7.7             | 2.1            | * 4.5          | * 6.0           | 24              | 2.0             | 0.0            | * 2.0          | * 3.3           |                 |
| 05    | 53 | 15.6            | 5.6            | * 5.0          | * 7.5           | 58              | 6.0             | 10.0           | * 5.5          | * 9.3           | * 38            |                 |                |                |                 | 24              | 2.0             | 0.0            | * 2.5          | * 3.5           |                 |
| 06    | 49 | 8.0             | 4.0            | * 4.5          | * 6.5           | 50              | 6.0             | 4.0            | * 6.3          | *10.0           | 40              | 8.6             | 2.0            | * 2.0          | * 3.5           | 24              | 2.0             | 0.0            | * 2.5          | * 3.3           |                 |
| 07    | 45 | 6.0             | 4.0            | * 3.5          | * 5.0           | 42              | 8.0             | 4.0            | * 5.5          | * 7.5           | 38              | 8.0             | 2.0            | * 3.3          | * 4.3           | 26              | 2.0             | 2.0            | * 3.0          | * 3.5           |                 |
| 08    | 43 | 5.5             | 2.0            | * 3.0          | * 4.0           | 38              | 7.6             | 3.6            | * 4.0          | * 5.5           | 36              | 9.0             | 2.0            |                |                 | 26              | 1.7             | 2.0            | * 3.5          | * 4.5           |                 |
| 09    | 45 | 6.0             | 4.0            | * 3.3          | * 5.8           | 38              | 4.2             | 4.0            | * 3.0          | * 4.5           | 34              | 4.9             | 2.0            | * 4.5          | * 6.0           | 26              | 0.4             | 2.0            | * 4.3          | * 6.0           |                 |
| 10    | 45 | 6.0             | 4.0            | * 2.5          | * 4.5           | 38              | 2.5             | 6.0            | * 3.5          | * 5.0           | 34              | 4.1             | 4.0            |                |                 | 26              | 2.0             | 2.0            | * 2.5          | * 4.0           |                 |
| 11    | 45 | 2.0             | 4.0            | * 3.5          | * 4.5           | 38              | 5.9             | 5.9            | * 3.5          | * 4.0           | 32              | 7.5             | 2.0            |                |                 | 26              | 2.1             | 2.0            | * 4.0          | * 6.0           |                 |
| 12    | 45 | 4.1             | 4.0            | * 2.5          | * 4.0           | 38              | 4.1             | 5.6            | * 3.3          | * 4.8           | 34              | 6.0             | 3.5            | * 4.5          | * 6.0           | 28              | 2.0             | 4.0            | * 4.0          | * 5.5           |                 |
| 13    | 45 | 4.0             | 2.0            | * 3.3          | * 4.8           | 38              | 6.0             | 4.1            | * 3.0          | * 5.0           | 36              | 2.0             | 4.0            | * 2.5          | * 3.5           | 28              | 3.7             | 4.0            | * 8.5          | *12.0           |                 |
| 14    | 45 | 4.2             | 4.0            | * 3.0          | * 4.3           | 40              | 4.0             | 6.2            | * 3.0          | * 5.5           | 38              | 5.5             | 4.0            |                |                 | 26              | 6.0             | 2.0            | * 4.0          | * 5.5           |                 |
| 15    | 45 | 6.0             | 2.3            | * 3.0          | * 3.0           | 40              | 7.1             | 4.3            | * 5.0          | * 7.5           | * 39            |                 |                | * 4.0          | * 6.0           | 26              | 4.0             | 2.0            | * 2.5          | * 3.8           |                 |
| 16    | 45 | 6.0             | 4.0            | * 3.0          | * 4.0           | 43              | 10.7            | 5.0            | * 3.5          | * 5.5           | 42              | 6.0             | 5.5            |                |                 | 26              | 2.0             | 2.0            | * 2.5          | * 4.0           |                 |
| 17    | 48 | 7.4             | 6.6            | * 5.0          | * 7.5           | 52              | 8.0             | 8.0            | * 4.5          | * 6.8           | 44              | 6.3             | 6.6            | * 5.0          | * 8.0           | 24              | 3.5             | 0.0            | * 3.0          | * 3.5           |                 |
| 18    | 55 | 9.3             | 7.6            | * 4.3          | * 6.3           | 54              | 9.7             | 4.1            | * 5.5          | * 8.5           | 44              | 7.3             | 4.0            |                |                 | 24              | 2.0             | 2.0            | * 4.0          | * 4.5           |                 |
| 19    | 55 | 14.0            | 4.0            | * 4.3          | * 6.5           | 54              | 10.1            | 3.6            | * 6.0          | * 9.5           | * 44            |                 |                | * 5.0          | * 7.5           | 24              |                 |                | * 2.8          | * 4.3           |                 |
| 20    | 55 | 13.5            | 3.5            | * 5.0          | * 7.5           | 56              | 9.5             | 5.5            |                |                 | 42              | 6.3             | 8.1            |                |                 | 24              |                 |                | * 3.5          | * 4.5           |                 |
| 21    | 55 | 12.0            | 2.0            | * 4.5          | * 6.5           | 55              | 9.2             | 3.0            | * 5.3          | * 9.3           | * 37            |                 |                | * 3.5          | * 3.5           | 24              | 2.0             | 1.6            | * 3.0          | * 4.0           |                 |
| 22    | 57 | 13.0            | 4.0            | * 5.0          | * 7.5           | 56              | 8.2             | 4.0            | * 5.5          | * 9.0           | 38              | 8.6             | 6.6            | * 6.5          | * 9.0           | 24              | 2.0             | 0.1            | * 3.5          | * 4.3           |                 |
| 23    | 57 | 13.0            | 2.0            |                |                 | 56              | 8.0             | 4.0            | * 5.0          | * 8.0           | * 34            |                 |                |                |                 | 24              | 2.0             | 0.0            | * 2.5          | * 4.0           |                 |

\* Fewer than 15 days data on power measurements and no computations made for D<sub>u</sub> and D<sub>l</sub>.

\* Fewer than 7 days data on voltage and logarithmic measurements.

F<sub>am</sub> = median value of effective antenna noise in db above ktb.

D<sub>u</sub> = ratio of upper decile to median in db.

D<sub>l</sub> = ratio of median to lower decile in db.

V<sub>dm</sub> = median deviation of average voltage in db below mean power.

L<sub>dm</sub> = median deviation of average logarithm in db below mean power.