

foF2

МГц

ИЮЛЬ

1973

АН КАЗ ССР

(характеристика) (единицы) (месяц) (год)

## Ионосферные данные

Кем составлена

Савицкий

Кем подсчитана

Гейко

Станция

73°05' E

широта

49°49' N

Поясное время

75°E

Долгота

| Дни               | 00                       | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10     | 11     | 12    | 13    | 14    | 15    | 16    | 17   | 18   | 19    | 20    | 21    | 22    | 23    |  |  |  |
|-------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|--|--|--|
| 1                 | S                        | 5.0   | 4.3   | 3.6   | 3.7   | 4.3   | 4.4   | 4.4   | 4.6   | 4.6   | 5.0    | 5.0    | 5.3   | 5.3   | 5.3   | 5.1   | 5.0   | 5.3  | 4.6  | 4.7   | 5.2   | 6.2   | 6.0   | 5.6   |  |  |  |
| 2                 | 4.8                      | 4.5   | 4.3   | 4.3   | 4.0   | 4.5   | 5.0   | 5.2   | 5.3   | 5.3   | 5.6.3S | 5.6.3S | 5.8   | 5.3   | 5.2   | 6.1   | 6.0   | 5.7  | 5.7  | 5.5   | 5.4   | 5.8   | 5.3   | 6.0   |  |  |  |
| 3                 | S                        | 5.3S  | 4.5   | 3.7   | 3.3F  | 3.9   | 4.7   | 5.3   | 5.5   | 5.5   | 5.3    | 5.3    | 5.5   | 5.5   | 5.7   | 5.7   | 5.4   | 5.0  | 4.9  | 5.2   | 5.7   | 5.8   | 5.8   | 15.6S |  |  |  |
| 4                 | 5.3                      | 5.0S  | 4.5   | 4.1   | 4.3   | 4.8   | 5.5   | 16.10 | 16.6S | 16.4A | 16.3R  | 6.0    | 6.2   | 6.0   | 6.0   | 16.3S | 5.4   | 5.3  | 5.5  | 15.3S | 5.3   | 5.2   | 5.6   | 5.6   |  |  |  |
| 5                 | 5.6                      | 5.1   | 5.0   | 4.6   | 4.5   | 4.7   | 5.4   | 15.5K | 5.7   | 6.0   | 16.5S  | 6.8    | 6.0   | 6.0   | 6.1   | 6.2   | 5.5   | 5.3  | 5.3  | 5.2   | 5.3   | 5.6   | 6.0   | 5.3   |  |  |  |
| 6                 | 5.1                      | 5.0   | 14.8S | 4.5   | 4.7   | 4.5   | 15.1K | 15.5K | 5.4   | 5.7A  | 6.1    | 6.3    | 6.9   | 6.0   | 5.4   | 5.6   | 6.0   | 5.4  | 5.3  | 5.0   | 5.4   | A     | S     | 6.0   |  |  |  |
| 7                 | 5.0                      | 5.3   | 5.0   | 4.8   | 4.7   | 15.2S | 5.2   | 5.5   | 5.8   | 6.0   | 6.3    | 16.8S  | 16.8S | 16.0R | 6.0   | 5.9   | 15.8K | 5.6  | 5.4  | 5.0   | 5.4   | 5.8   | 15.3S | 15.4S |  |  |  |
| 8                 | 5.0                      | 4.8S  | 4.4   | 4.1   | 4.0   | 4.6   | 5.2   | 6.0   | 16.5S | 6.5   | 7.0    | 6.3    | 6.7   | 6.0   | 5.9   | 6.0   | 6.0   | 6.3  | 7.0  | 17.0S | 6.1   | 6.0   | S     | S     |  |  |  |
| 9                 | S                        | 6.0   | 5.4   | 14.9S | 4.0V  | 4.7   | 15.0S | 5.7   | 5.7   | 5.9   | 16.0A  | 15.8S  | 5.6   | 15.4S | 5.5   | 5.7   | 15.5S | 5.0  | 4.9  | 5.2   | 5.8   | S     | S     | 6.0   |  |  |  |
| 10                | S                        | 4.4   | 14.0S | 13.9S | 13.6S | 13.8S | 4.3   | 4.7   | 5.1   | 6.0   | 6.9    | 6.3    | 5.5   | 5.8   | 5.6   | 5.5   | 5.6   | 5.5  | 5.6  | 6.3   | S     | S     | 6.0   | 15.4S |  |  |  |
| 11                | 4.7                      | 4.0   | 3.6   | 3.5   | 3.5   | 4.5   | 5.1   | 5.5   | 6.1   | 6.1   | 16.8S  | 6.3    | 16.1A | 15.6A | 5.3   | 5.5   | 5.6   | 5.3  | 5.4  | 5.9   | 16.0A | 16.0A | 5.8   | S     |  |  |  |
| 12                | S                        | S     | 4.5N  | 4.1   | 3.7   | 4.4   | 5.2   | 6.0   | 6.1   | 6.1   | 6.2    | 6.5    | 6.3   | 5.9   | 5.8   | 5.8   | 5.5   | 5.3  | 5.6  | 6.0   | 6.0   | 16.0S | 5.9   | 5.8   |  |  |  |
| 13                | 15.3S                    | 15.0S | 14.7A | 14.3S | 4.0   | 4.4   | 5.0   | 5.4   | 5.0   | 5.3   | 5.8    | 5.7    | 6.0   | 6.1   | 5.5   | 5.4   | 5.4   | 5.4  | 5.3  | 5.2   | 15.2S | 5.8   | 6.1   | 6.0   |  |  |  |
| 14                | 5.3                      | 14.8S | 4.0   | 3.9   | 4.0   | 4.5   | 4.8   | 5.1   | 5.5   | 5.6   | 5.4    | 5.6    | 6.3   | 6.0   | 6.4   | 6.5   | 5.8   | 5.3  | 5.7  | 5.1   | 5.0   | 5.9   | 6.1   | 5.4   |  |  |  |
| 15                | 14.3S                    | 14.0A | 13.8S | 3.6   | 13.7A | 14.0A | 4.4   | 5.0   | 5.2   | 5.8   | 6.0    | 6.0    | 6.1   | 6.1   | 5.9   | 5.8   | 5.5   | 5.3  | 5.4  | 5.4   | 5.3   | 5.7   | 5.8   | 5.1   |  |  |  |
| 16                | 14.6S                    | 3.6   | 5.5   | 3.3   | 3.1   | 3.6   | 13.9S | 4.3   | 4.8   | 4.8   | 5.9    | 5.3    | 5.4   | 5.3   | 5.5   | 5.9   | 5.5   | 5.3  | 5.2  | 5.1   | 5.6   | 5.6   | 6.0   | 5.0   |  |  |  |
| 17                | 14.8S                    | 4.4   | 4.2   | 3.8   | 3.7   | 4.5   | 4.8   | 5.5   | 5.7   | 6.2   | 6.3    | 6.5    | 6.7   | 6.3   | 6.0   | 5.5   | 5.7   | 5.7  | 5.3  | 5.3   | 5.7   | 6.0   | 15.8S | 5.4   |  |  |  |
| 18                | 5.0                      | 4.7   | 4.1   | 13.9A | 3.7   | 4.1   | 4.5   | 5.0   | 5.8   | 6.7   | 16.4A  | 6.0    | 5.9   | 5.7   | 6.0   | 6.0   | 5.7   | 5.0  | 5.0  | 5.0   | 6.0   | 6.1   | 15.9A | 5.5   |  |  |  |
| 19                | 5.0                      | 4.6   | 4.3   | 4.0   | 3.9   | 4.7   | 4.7   | 5.1   | 6.1   | 6.0   | 6.2    | 5.8    | 6.0   | 6.5   | 6.4   | 5.9   | 6.0   | 5.7  | 5.5  | 15.5A | 16.0S | 16.2S | 16.0S | 5.8   |  |  |  |
| 20                | 14.8S                    | 4.5   | 14.3S | 4.0   | 3.9   | 4.4   | 4.8   | 5.3   | 5.4   | 5.3   | 15.5A  | 5.9    | 6.4   | 6.4   | 6.2   | 5.6   | 5.2   | 5.4  | 5.5  | 5.0   | 15.5S | 6.0   | 5.8   | 5.3   |  |  |  |
| 21                | 5.0                      | 4.5   | 4.2   | 4.1   | 4.0   | 4.3   | 4.4   | 5.3   | 5.3   | 5.5   | 6.3    | 15.9R  | 5.5   | 5.6   | 5.5   | 5.7   | 5.3   | 5.0  | 5.3  | 15.3S | 6.0   | 16.0S | 15.7A | 5.0   |  |  |  |
| 22                | 14.3S                    | 14.0S | 4.0   | 13.9A | 3.7   | 4.3   | 4.5   | 5.3   | 5.7   | 5.6   | 5.5    | 6.0    | 6.0   | 5.2   | 5.7   | 5.6   | 5.5   | 5.3  | 5.5  | 5.6   | 5.8   | 15.7S | 15.3S | 5.0   |  |  |  |
| 23                | 4.5                      | 4.3   | 4.0   | 3.7   | 13.6S | 3.9   | 4.6   | 4.8   | 5.5   | 5.6   | 15.9S  | 16.3S  | 6.0   | 6.0   | 6.2   | 16.6S | 5.7   | 5.8  | 5.9  | 5.8   | 5.0   | 15.3S | 15.3S | 5.3   |  |  |  |
| 24                | 4.7                      | 4.3   | 3.5   | 3.2   | 3.0   | 13.8R | 4.6   | 4.5   | 15.5A | 15.5A | 15.9A  | 15.9R  | 5.7   | 15.9R | 6.0   | 5.7   | 15.4R | 5.6  | 6.0  | 6.0   | 6.0   | 5.8   | 5.5   | 5.3   |  |  |  |
| 25                | 15.0S                    | 4.5   | 4.3   | 3.9   | 3.5   | 4.0   | 4.7   | 5.2   | 5.2   | 5.7   | 6.1    | 6.2    | 6.0   | 6.4   | 6.5   | 5.8   | 5.7   | 6.1  | 5.7  | 5.7   | 15.7A | 15.7S | 5.0   | 14.7S |  |  |  |
| 26                | 4.3                      | 4.3   | 3.4   | 3.0   | 3.0   | 3.6   | 4.4   | 4.9   | 5.6   | 5.8   | 5.8    | 5.8    | 6.7   | 6.3   | 16.0S | 6.2   | 6.3   | 6.2  | S    | A     | S     | S     | 15.3S | 14.9S |  |  |  |
| 27                | 14.5S                    | 13.9S | 3.5   | 3.0   | 2.6   | 3.0   | 3.4   | 13.7R | 3.8   | 4.5   | R      | R      | R     | 4.9   | 5.0   | 15.0R | 15.3S | 5.0  | 5.0  | 5.0   | 4.8   | 5.2   | 4.8   | 4.3   |  |  |  |
| 28                | 4.3                      | 14.2S | 13.6S | 3.3   | 3.4   | 3.6   | 13.8A | 4.0   | A     | A     | 4.5    | 4.8    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.3  | 4.9  | 4.8   | 5.3   | 5.0   | 5.0   | 4.5   |  |  |  |
| 29                | 4.0                      | 14.0S | 4.0   | 13.7S | 13.3S | 3.5   | 14.2C | 5.7   | 5.3   | 5.0   | 5.0    | 5.0    | 5.8   | 6.0   | 5.8   | 5.7   | 5.4   | 5.3  | 5.5  | 5.0   | 15.3A | 5.8   | 5.3   | 4.3   |  |  |  |
| 30                | 13.6S                    | 13.4S | 3.5   | 13.4S | 13.4S | 13.7S | 4.7   | 5.2   | 5.0   | 5.0   | 5.3    | 5.8    | 6.1   | 5.5   | 5.3   | 5.6   | 5.3   | 5.5  | 5.0  | 14.9S | 5.0   | 5.1   | 5.0   | 4.9   |  |  |  |
| 31                | 14.5S                    | 4.3   | 4.0   | 3.3   | 3.3   | 3.7   | 4.1   | 5.0   | 5.4   | 5.0   | 5.6    | 5.5    | 6.0   | 5.8   | 5.6   | 6.3   | 5.5   | 5.6  | 5.4  | 15.4S | 5.8   | 15.6S | 5.3   | 15.3S |  |  |  |
| Диап.             | 0.5                      | 0.8   | 0.7   | 0.6   | 0.6   | 0.7   | 0.6   | 0.6   | 0.5   | 0.7   | 0.8    | 0.6    | 0.6   | 0.6   | 0.5   | 0.4   | 0.4   | 0.3  | 0.3  | 0.6   | 0.6   | 0.4   | 0.7   | 0.6   |  |  |  |
| Медиана           | 4.8                      | 4.5   | 4.2   | 3.9   | 3.7   | 4.3   | 4.7   | 5.2   | 5.5   | 5.7   | 6.0    | 6.0    | 6.0   | 6.0   | 5.8   | 5.7   | 5.5   | 5.3  | 5.4  | 5.2   | 5.5   | 5.8   | 5.8   | 5.3   |  |  |  |
| Учтено            | 26                       | 30    | 31    | 31    | 31    | 31    | 31    | 31    | 30    | 30    | 30     | 30     | 30    | 31    | 31    | 31    | 31    | 31   | 30   | 30    | 29    | 27    | 28    | 29    |  |  |  |
| Пробег частоты от | 10                       | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10     | 10     | 10    | 10    | 10    | 10    | 10    | 10   | 10   | 10    | 10    | 10    | 10    | 10    |  |  |  |
| Мгц до            | 18.0                     | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0   | 18.0   | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0 | 18.0 | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  |  |  |  |
| Мгц               | 2.0                      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0    | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  | 2.0  | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |  |  |  |
| Мак               | 18.0                     | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0   | 18.0   | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  | 18.0 | 18.0 | 18.0  | 18.0  | 18.0  | 18.0  | 18.0  |  |  |  |
| Станция           | Автоматическая           |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |      |      |       |       |       |       |       |  |  |  |
|                   | (ручная, автоматическая) |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |      |      |       |       |       |       |       |  |  |  |

Пробег частоты от 10 Мгц до

18.0

Мгц

2.0

Мак

Станция

Автоматическая

(ручная, автоматическая)

# Ионосферные данные

Станция Караванда  
Долгота 73°05'E широта 49°49'N

Поясное время 7:50E

| Дни     | 00 | 01 | 02 | 03 | 04 | 05     | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21 | 22 | 23 |
|---------|----|----|----|----|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|
| 1       |    |    |    |    |    | IU3.0L | I4.0  | I4.2A | 4.3   | 4.4   | 4.4   | 4.5   | 4.5   | 4.5   | 4.4   | 4.3   | 4.1   |       |       |       |       |    |    |    |
| 2       |    |    |    |    |    | L      | R     | A     | A     | A     | 4.5   | 4.6   | 4.5   | A     | 4.4   | 4.4   | 4.3   | A     | A     | A     |       |    |    |    |
| 3       |    |    |    |    |    |        | 3.5   | I3.9A | 4.2   | 4.4   | 4.5   | 4.5   | 4.5   | 4.5   | 4.4   | 4.4   | U4.2L | L     | U4.0L | L     |       |    |    |    |
| 4       |    |    |    |    |    | L      | 3.8   | C     | A     | I4.4A | 4.4   | 4.5   | 4.6   | 4.5   | 4.5   | 4.3   | 4.3   | U4.1L | A     |       |       |    |    |    |
| 5       |    |    |    |    |    | U3.2L  | 3.7   | I4.1R | 4.3   | 4.4   | 4.5   | 4.5   | 4.6   | 4.6   | 4.6   | 4.4   | U4.3L | L     | U3.9L | L     |       |    |    |    |
| 6       |    |    |    |    |    |        | 4.0   | 4.3   | I4.4A | 4.5   | 4.6   | 4.5   | 4.6   | 4.5   | 4.5   | 4.3   | U4.1L | U3.8L | L     |       |       |    |    |    |
| 7       |    |    |    |    |    | L      |       | U4.2L | 4.3   | 4.5   | 4.5   | 4.6   | 4.7   | 4.6   | 4.6   | 4.5   | U4.3L | U4.1L | U3.8L | L     |       |    |    |    |
| 8       |    |    |    |    |    |        | U3.9L | I4.1A | 4.3   | 4.5   | I4.5A | 4.6   | 4.6   | 4.6   | 4.5   | 4.4   | 4.3   | I4.2A | U3.9L | U3.1L |       |    |    |    |
| 9       |    |    |    |    |    | L      |       | U4.0L | 4.3   | 4.5   | I4.6A | 4.6   | 4.6   | 4.7   | 4.5   | 4.4   | U4.2L | U4.1L | U3.8L | U3.4L |       |    |    |    |
| 10      |    |    |    |    |    |        | 3.5   | 3.9   | 4.1   | I4.3A | 4.4   | 4.6   | 4.6   | 4.5   | 4.5   | 4.4   | 4.3   | U4.1L | U3.9L | U3.3L |       |    |    |    |
| 11      |    |    |    |    |    | L      | U3.7L | 4.0   | 4.2   | 4.4   | 4.5   | 4.6   | I4.6A | I4.7A | 4.6   | 4.4   | 4.3   | U4.0L | U3.9L | A     |       |    |    |    |
| 12      |    |    |    |    |    | L      | U3.8L | I4.1A | 4.2   | 4.4   | 4.5   | 4.5   | 4.5   | 4.5   | 4.4   | 4.4   | 4.3   | U4.3L | U3.9L | L     |       |    |    |    |
| 13      |    |    |    |    |    | 3.0    | 3.5   | 3.9   | 4.2   | 4.3   | 4.4   | I4.5A | 4.5   | 4.4   | 4.4   | 4.3   | 4.2   | 4.0   | U3.8L | L     |       |    |    |    |
| 14      |    |    |    |    |    | U3.0L  | U3.5L | 3.9   | 4.2   | 4.3   | 4.4   | 4.5   | 4.5   | 4.5   | 4.5   | 4.3   | 4.2   | 4.1   | U3.9L | U3.3L |       |    |    |    |
| 15      |    |    |    |    |    |        | 3.5   | 3.9   | I4.1A | I4.3A | 4.3   | 4.4   | 4.5   | 4.5   | 4.4   | 4.3   | 4.2   | U4.1L | U3.8L | U3.2L |       |    |    |    |
| 16      |    |    |    |    |    |        |       | 3.8   | 4.0   | 4.1   | 4.3   | 4.4   | 4.5   | 4.4   | 4.4   | 4.3   | U4.2L | U4.0L | U3.8L | L     |       |    |    |    |
| 17      |    |    |    |    |    | I      | 3.9   | 3.9   | 4.2   | 4.3   | 4.5   | 4.6   | 4.5   | 4.5   | 4.4   | 4.4   | 4.3   | 4.0   | U3.8L | L     |       |    |    |    |
| 18      |    |    |    |    |    | L      | 4.0   | I4.2A | 4.3   | 4.5   | 4.5   | 4.5   | 4.6   | 4.5   | 4.5   | I4.3A | U4.2L | L     | L     |       |       |    |    |    |
| 19      |    |    |    |    |    | L      | 4.1   | 4.1   | I4.4A | 4.4   | 4.6   | 4.5   | 4.5   | 4.5   | 4.4   | 4.3   | 4.2   | I4.1A | U4.0L | A     |       |    |    |    |
| 20      |    |    |    |    |    | I      | U3.6L | 4.0   | I4.2A | 4.3   | 4.5A  | 4.6   | 4.5   | 4.5   | 4.4   | 4.3   | 4.2   | U4.0L | U3.7L |       |       |    |    |    |
| 21      |    |    |    |    |    | L      | U3.4L | 4.0   | 4.2   | 4.4   | 4.4   | I4.5A | 4.5   | 4.5   | 4.4   | 4.4   | U4.3L | U4.0L | U3.8L | L     |       |    |    |    |
| 22      |    |    |    |    |    |        | U3.7L | A     | 4.1   | 4.4   | 4.4   | 4.4   | 4.5   | 4.5   | 4.5   | 4.3   | 4.2   | U4.1L | U3.8L | U3.0L |       |    |    |    |
| 23      |    |    |    |    |    | L      | 4.0   | 4.0   | 4.3   | 4.5   | 4.5   | 4.5   | 4.4   | 4.4   | 4.4   | 4.3   | U4.3L | I3.9A | U3.8L | A     |       |    |    |    |
| 24      |    |    |    |    |    | L      | U3.5L | 4.0   | A     | A     | A     | 4.5   | 4.5   | 4.4   | I4.4A | 4.4   | U4.2L | U4.0L | A     |       |       |    |    |    |
| 25      |    |    |    |    |    | L      | U3.5L | 4.0   | I4.2A | 4.4   | 4.4   | 4.5   | 4.6   | 4.6   | 4.5   | 4.4   | U4.3L | 4.0   | L     |       |       |    |    |    |
| 26      |    |    |    |    |    |        |       | 3.9   | 4.1   | 4.3   | 4.5   | 4.5   | 4.6   | 4.5   | 4.4   | 4.4   | U4.3L | U4.1L | U3.8L |       |       |    |    |    |
| 27      |    |    |    |    |    |        |       |       | 4.1   | 4.2   | 4.3   | 4.3   | 4.4   | 4.4   | 4.4   | 4.3   | I4.1A | A     | U3.6L |       |       |    |    |    |
| 28      |    |    |    |    |    |        |       | A     | A     | 4.1   | 4.3   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.3   | 4.2   | U4.0L | U3.8L | U2.9L |    |    |    |
| 29      |    |    |    |    |    |        |       | I3.8A | 4.1   | 4.3   | 4.4   | 4.4   | 4.5   | 4.5   | 4.4   | 4.4   | U4.2L | U4.0L | U3.5L |       |       |    |    |    |
| 30      |    |    |    |    |    | I      | 3.4A  | 3.8   | I4.1A | 4.3   | 4.3   | 4.4   | 4.4   | 4.4   | 4.5   | 4.3   | U4.4L | U4.0L | L     | L     |       |    |    |    |
| 31      |    |    |    |    |    | L      | 3.8   | 4.1   | 4.3   | 4.4   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.4   | U4.2L | U4.0L | U3.7L | L     |       |    |    |    |
| сдвиг   |    |    |    |    |    | U3.0L  | U3.5L | 4.0   | 4.0   | 4.3   | 4.4   | 4.5   | 4.5   | 4.5   | 4.4   | 4.4   | 4.3   | U4.1L | U3.8L | U3.3L | U2.9L |    |    |    |
| считано |    |    |    |    |    | 4      | 17    | 26    | 26    | 28    | 30    | 31    | 31    | 30    | 31    | 31    | 31    | 26    | 24    | 7     | 1     |    |    |    |

Fo E МГЦ ИЮЛЬ 1973

АН КАЗ ССР

(характеристики (данные) (месяц) (год))

Станция

Долгота

73°05'E

широта

49°49'N

Поясное время

75°E

## Ионосферные данные

Кем составлена

Савицкой

Кем подсчитана

Перелыгин

| Долгота |        |        |    | широта |        |       |         |      |    |    |    |    |    | Поясное время |      |       |         |        |        |        |       |        |        | Кем подсчитана |  |  |  |  |  |  |  |  |  |
|---------|--------|--------|----|--------|--------|-------|---------|------|----|----|----|----|----|---------------|------|-------|---------|--------|--------|--------|-------|--------|--------|----------------|--|--|--|--|--|--|--|--|--|
| Дни     | 00     | 01     | 02 | 03     | 04     | 05    | 06      | 07   | 08 | 09 | 10 | 11 | 12 | 13            | 14   | 15    | 16      | 17     | 18     | 19     | 20    | 21     | 22     | 23             |  |  |  |  |  |  |  |  |  |
| 1       |        |        |    |        | 1.40   | A     | A       | A    | A  | A  | A  | A  | A  | 3.40          | 3.30 | 3.15  | 3.00    | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 2       | E      |        |    |        | A      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 3       |        |        |    |        |        | 1.65H | 2.05    | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | 2.95   | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 4       |        |        |    |        | 1.30   | 1.85H | A       | C    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 5       |        |        | E  | E      | 1.40   | 1.80  | 2.35    | R    | A  | A  | A  | A  | A  | A             | A    | A     | 3.05    | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 6       |        |        |    |        | E      | 1.85H | 2.40H   | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 7       |        |        |    |        | A      | 1.75  | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 8       |        |        |    |        |        | A     | A       | A    | A  | A  | A  | A  | A  | 3.40          | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 9       |        |        |    |        | A      | 1.80A | 2.30    | A    | A  | A  | A  | A  | A  | A             | A    | 3.15A | 1.295A  | A      | 2.65   | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 10      |        |        |    |        | A      | A     | A       | A    | A  | A  | A  | A  | A  | 3.30A         | 3.20 | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 11      |        |        |    |        | E1.20B | 1.70  | 2.30    | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 12      |        |        |    |        | E      | A     | A       | A    | A  | A  | A  | A  | A  | 3.30          | 3.20 | 3.20  | 3.05    | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 13      |        |        |    |        | A      | A     | 2.30    | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | 1.280A | 2.50   | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 14      |        |        |    | E      | E      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | 3.05    | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 15      |        |        |    |        |        | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | 3.00    | 1.270  | 1.240A | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 16      |        |        | E  |        | 1.20   | A     | A       | A    | A  | A  | A  | A  | A  | A             | 3.25 | 3.10  | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 17      |        |        |    |        | A      | 1.60  | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | 3.00    | 1.275  | 1.250A | 1.205A | 1.55  | E1.20B |        |                |  |  |  |  |  |  |  |  |  |
| 18      |        |        |    |        |        | 2.00  | 2.55A   | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 19      |        |        |    |        | E      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 20      |        |        |    |        | A      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | 2.05H | A      |        |                |  |  |  |  |  |  |  |  |  |
| 21      | E      | E      | E  |        | E      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 22      |        |        |    |        |        | 1.70  | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 23      |        |        |    |        | E      | 1.50  | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 24      |        |        |    |        | E1.20B | 1.70  | 1.2.30A | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | A      |        |                |  |  |  |  |  |  |  |  |  |
| 25      |        |        |    |        | A      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | 3.20  | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 26      |        |        |    | E      | A      | 1.80  | 2.30    | 2.80 | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | E      | E1.20B | E              |  |  |  |  |  |  |  |  |  |
| 27      | E1.50B | E1.50B |    |        |        | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 28      |        |        |    |        | E      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | 3.15  | 1.3.05A | 2.90   | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 29      |        |        |    |        |        | A     | C       | A    | A  | A  | A  | A  | A  | A             | A    | 3.15  | 3.00    | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 30      |        |        |    |        |        | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | 3.00    | A      | A      | A      | A     |        |        |                |  |  |  |  |  |  |  |  |  |
| 31      |        |        |    |        | E      | A     | A       | A    | A  | A  | A  | A  | A  | A             | A    | A     | A       | A      | A      | A      | A     | E1.20B | E1.10B |                |  |  |  |  |  |  |  |  |  |
| Медиана | E      | E1.50B | E  | E      | E      | 1.75  | 2.30    | 2.80 | -  | -  | -  | -  | -  | 3.35          | 3.20 | 3.15  | 3.00    | 2.80   | 2.50   | 2.05   | 1.55  | E1.20B | E1.20B | E1.10B         |  |  |  |  |  |  |  |  |  |
| Учтено  | 3      | 2      | 3  | 3      | 14     | 13    | 9       | 1    | -  | -  | -  | -  | -  | 4             | 4    | 17    | 10      | 5      | 4      | 2      | 1     | 2      | 2      | 2              |  |  |  |  |  |  |  |  |  |

Пробег частоты от 10 Мгц до 18.0

Мгц 2.0

сек

Станция

автоматическая

(ручная, автоматическая)

Ионосферные данные

| Долгота 73°05'E |       |       |       | широта 49°49'N |       |       |       | Поясное время 75°E |       |       |       | Кем подсчитана |       |       |       |       |       |       |       |       |       |       |       |       |  |  |
|-----------------|-------|-------|-------|----------------|-------|-------|-------|--------------------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| Дни             | 00    | 01    | 02    | 03             | 04    | 05    | 06    | 07                 | 08    | 09    | 10    | 11             | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    |  |  |
| 1               | J4.6X | J3.6X | J3.3X | J2.0X          | 1.5   | 2.1   | 3.0   | 3.3                | 4.3   | 3.9   | 4.1   | J5.1X          | 3.5   | 2.0G  | 2.0G  | 3.6   | G     | 3.0   | 3.6   | J5.3X | J4.3X | 4.3   | 3.5   | 1.5   |  |  |
| 2               | G     | 2.6   | J3.5X | J2.3X          | J2.6X | 2.4   | D3.5R | J5.0X              | 5.2   | 5.1   | 4.3   | J7.3X          | J4.0X | J6.8X | J5.0X | 4.3   | 3.6   | 4.8   | 5.3   | 3.4   | 5.4   | 4.2   | J5.0X | 1.8   |  |  |
| 3               | J4.1X | J4.0X | J3.6X | J2.4X          | 1.7   | 2.0   | 2.5   | 4.4                | 4.2   | J5.1X | J5.3X | 3.7            | 3.8   | 3.3   | D3.2R | 3.3   | 3.2   | G     | 5.0   | 2.9   | 2.2   | 1.6   | 4.4   | J4.3X |  |  |
| 4               | J2.3X | J2.8X | 1.5   | J2.8X          | G     | G     | 3.2   | G                  | J5.0X | J8.3X | J5.3X | 3.6            | 4.0   | 3.8   | D3.3R | 3.3   | J4.0X | 3.7   | 3.7   | 3.3   | J2.5X | 1.3   | J2.5X | E1.1B |  |  |
| 5               | 1.5   | E1.2B | G     | G              | G     | G     | G     | R                  | 4.0   | J5.3X | J4.3X | 3.6            | 3.5   | 3.7   | 3.6   | 3.5   | G     | 3.0   | 2.9   | 3.3   | 4.0   | 2.5   | J3.7X | J2.8X |  |  |
| 6               | E1.2B | 2.3   | J1.8X | E1.1B          | G     | G     | G     | 3.2                | 3.7   | 6.2   | 3.9   | 3.5            | 3.7   | 3.5   | 3.4   | 4.1   | 4.2   | 3.3   | 2.7   | 2.4   | J5.0X | 6.0   | J3.5X | J3.6X |  |  |
| 7               | J3.6X | J3.9X | 1.5   | J2.0X          | 1.5   | 1.3G  | 2.6   | 3.8                | 4.7   | 4.3   | J3.8X | 3.9            | D3.6R | J5.1X | J4.0X | 3.6   | J4.3X | 3.5   | 2.6   | 3.0   | J4.9X | J5.1X | J5.0X | J5.0X |  |  |
| 8               | J3.8X | J3.6X | J3.6X | 2.5            | J2.3X | J2.8X | 3.5   | 5.1                | 3.6   | 3.5   | 6.0   | D3.4R          | D3.4R | G     | 3.6   | 4.0   | J5.1X | J5.8X | J5.0X | 3.0   | J2.5X | J2.8X | J3.6X | J2.6X |  |  |
| 9               | J2.8X | J2.5X | J2.8X | 2.5            | 1.5   | 2.0   | G     | 3.3                | 4.0   | 4.1   | 8.2   | J5.3X          | 3.6   | J5.3X | J4.0X | J5.3X | J5.4X | 3.0   | G     | 3.2   | J5.3X | J4.0X | J2.8X | J2.8X |  |  |
| 10              | J2.3X | 2.5   | J2.3X | J2.5X          | 2.4   | 2.6   | 3.2   | 3.2                | 4.1   | J5.3X | J5.1X | J4.2X          | 3.4   | 3.4   | 2.0G  | 3.3   | 3.6   | 3.5   | J3.7X | J3.0X | 2.0   | J2.5X | 1.4   | 2.5   |  |  |
| 11              | E     | E1.1B | E     | E1.1B          | G     | 2.0   | 3.0   | 3.7                | 3.4   | 3.3   | 3.6   | 4.8            | 10.0  | 7.3   | 3.7   | J3.8X | 3.3   | 3.3   | 3.2   | J5.0X | 8.6   | J5.0X | J2.6X | J2.8X |  |  |
| 12              | J3.7X | J2.7X | J2.0X | E              | G     | 2.1   | 3.0   | 4.2                | 3.7   | 4.3   | 4.0   | 3.4            | 3.5   | 3.4   | 3.3   | 2.3G  | 2.2G  | 3.0   | J4.0X | 3.2   | 2.2   | 1.5   | E     | 3.4   |  |  |
| 13              | E1.2B | E     | J5.0X | J5.0X          | 2.2   | J2.0X | 3.2   | 3.0                | 3.7   | 3.6   | 4.5   | J5.1X          | 3.7   | J4.9X | 3.8   | 4.4   | 3.0   | 2.7   | G     | 3.2   | 2.6   | 1.7   | J2.7X | J2.6X |  |  |
| 14              | E1.3B | E     | E     | G              | G     | 2.0   | 2.5   | 3.3                | 3.4   | J3.9X | 3.5   | 3.3            | 3.5   | D3.2R | J4.0X | 3.2   | 3.3   | 3.4   | 3.0   | 3.3   | 2.2   | E1.2B | 2.0   | 2.0   |  |  |
| 15              | J2.5X | J4.1X | J5.2X | J5.0X          | 4.3X  | J5.3X | 3.0   | 3.5                | 4.4   | 4.4   | 4.0   | 4.1            | 4.0   | 3.7   | 3.6   | 3.3   | 3.2   | D2.5R | 2.5   | 2.5   | 2.4   | J2.8X | J2.3X | 1.5   |  |  |
| 16              | 2.2   | E1.2B | G     | 2.0            | G     | 2.0   | 2.4   | 3.2                | 3.2   | 3.3   | 3.3   | 3.8            | 4.2   | 3.3   | 3.2G  | 3.0G  | 3.6   | 3.4   | 2.5   | 2.4   | J3.7X | J2.8X | 2.4   | J2.5X |  |  |
| 17              | 2.2   | J2.3X | J2.8X | 2.2            | 1.2   | 1.4G  | J2.8X | 3.3                | 3.2   | 3.3   | 3.3   | 3.9            | D3.3R | 3.5   | J3.8X | 3.3   | 2.3G  | 2.9   | 2.7   | 2.2   | 1.3   | G     | E1.2B | E1.1B |  |  |
| 18              | E1.2B | E1.1B | 2.2   | J5.1X          | J3.5X | 2.0   | 2.4   | 3.6                | 5.8X  | 4.1   | J6.6X | 5.2            | 4.3   | J5.3X | 3.8   | J4.8X | J4.0X | 3.6   | J5.3X | J2.6X | J3.0X | J2.5X | 6.0   | 1.3   |  |  |
| 19              | 2.2   | 1.5   | 1.3   | E1.2B          | G     | 2.2   | 2.8   | 3.8                | 4.0   | 5.3   | 4.2   | 4.0            | 3.7   | 3.6   | 3.5   | J4.0X | 3.2   | 5.9   | 2.8   | 5.4   | J3.5X | J3.7X | J3.7X | 3.2   |  |  |
| 20              | J2.5X | 2.2   | J2.5X | 3.0            | 2.5   | 2.0   | 3.2   | 4.0                | 4.1   | 4.4   | 6.2   | J5.3X          | J6.3X | 3.7   | 3.6   | D3.4R | 3.8   | 2.7   | 3.0   | 1.5G  | J4.0X | J2.7X | 2.2   | E1.2B |  |  |
| 21              | G     | G     | G     | E              | G     | 2.0   | 2.6   | 3.4                | 4.3   | 3.9   | 3.6   | J6.0X          | 4.1   | J3.9X | 3.3   | 4.0   | 4.0   | 3.7   | 3.0   | 2.1   | 2.0   | 2.7   | 4.7   | J4.0X |  |  |
| 22              | J2.5X | J2.5X | J2.6X | 4.5            | J2.4X | 1.9   | 2.8   | 4.3                | J4.6X | 5.0   | 5.3   | 4.4            | 3.7   | 3.6   | 3.4   | 4.0   | 4.0   | 2.7   | 2.6   | 2.2   | 1.8   | J2.8X | 2.5   | 2.1   |  |  |
| 23              | 2.2   | E1.3B | E     | E1.1B          | G     | G     | 2.4   | 3.0                | 3.3   | 4.5   | J4.0X | 3.7            | J8.3X | J4.1X | 3.4   | J5.3X | J7.8X | 8.0X  | J5.0X | 5.4   | J3.6X | J3.7X | J3.8X | J3.0X |  |  |
| 24              | 1.9   | E1.7B | 1.8   | E              | G     | G     | 3.4   | 3.1                | J5.3X | J9.3X | J5.3X | 4.3            | 4.0   | 4.4   | J6.3X | 4.1   | 3.2   | 3.3   | 4.0   | J5.3X | J4.0X | 3.5   | 3.5   | J2.3X |  |  |
| 25              | 2.4   | E1.2B | E     | E1.1B          | J2.0X | 2.4   | 2.7   | J4.4X              | J7.0X | J5.0X | 3.4   | 3.5            | 3.5   | 3.8   | J5.0X | 2.5G  | 3.4   | 3.9   | 3.2   | J3.6X | 4.0   | 4.0   | J4.0X | 2.4   |  |  |
| 26              | 2.5   | E1.2B | E     | G              | 1.3   | 1.7   | G     | G                  | 3.5   | 3.4   | 3.6   | 3.3            | J5.1X | J5.0X | J4.0X | 3.3   | 3.1   | 2.9   | 2.9   | 5.8   | J2.3X | G     | G     | G     |  |  |
| 27              | G     | G     | E1.1B | J1.7X          | E1.3B | 2.2   | 2.3   | D2.6R              | 3.2   | 3.7   | 3.9   | J4.0X          | J4.0X | 3.4   | 3.5   | 3.7   | 4.6   | 4.0   | 3.4   | J5.0X | J4.0X | 4.3   | J2.0X | E1.1B |  |  |
| 28              | J2.9X | E1.5B | E     | E1.2B          | 1.2   | 3.6   | 3.0   | 3.6                | 3.7   | J7.3X | 4.1   | 4.2            | 3.3   | 3.4   | 3.3   | 2.5G  | 3.3   | 3.0   | 3.1   | 2.7   | 2.0   | J2.5X | J2.0X | J2.1X |  |  |
| 29              | J3.3X | J3.5X | J2.8X | J3.2X          | J3.3X | 2.0   | G     | 4.2                | 4.0   | 3.3   | 4.2   | 4.3            | 4.4   | 3.5   | 3.6   | 2.2G  | G     | 3.1   | 3.0   | J3.7X | 5.0   | J2.0X | 3.6   | J2.4X |  |  |
| 30              | J2.3X | E     | E     | 2.2            | 1.4   | 3.2   | 4.3   | 3.6                | 4.5   | 4.2   | 4.0   | 4.5            | 4.3   | 3.8   | 3.3   | 3.3   | G     | 2.8   | 2.6   | 2.1   | 1.5   | 2.4   | J2.9X | J3.0X |  |  |
| 31              | 2.0   | E1.2B | E     | E              | G     | 1.9   | 2.4   | 4.0                | 3.2   | 3.4   | 3.3   | 3.5            | 3.4   | 3.8   | 4.1   | 3.4   | 3.3   | 2.8   | 2.3   | 1.8   | J2.6X | 1.5   | G     | G     |  |  |
| Диагн           | 15    | 15    | 14    | -              | 0.5   | 0.8   | 0.9   | 1.0                | 1.5   | 1.7   | 1.5   | 0.7            | 1.0   | 0.7   | 0.7   | 0.9   | 0.8   | 1.1   | 1.3   | 1.8   | 2.3   | 1.7   | 1.5   |       |  |  |
| Медиана         | J2.3X | E1.7B | J1.8X | J2.0X          | E1.3B | 2.0   | 2.8   | 3.6                | 4.0   | 4.2   | 4.1   | 4.0            | U3.9  | 3.7   | 3.6   | U3.5  | 3.3   | 3.3   | 3.0   | 3.2   | 3.0   | 2.7   | J2.8X | 2.4   |  |  |
| Учено           | 31    | 31    | 31    | 31             | 31    | 31    | 30    | 29                 | 31    | 31    | 31    | 31             | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    |  |  |
| Время           | 1.3   | 1.2   | 1.2   | 1.1            | 1.1   | 1.1   | 1.1   | 1.1                | 1.1   | 1.1   | 1.1   | 1.1            | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |  |  |



ГБЕС МГЦ ИЮЛЬ 1973  
(характеристика) (станции) (месяц) (год)

Станция Караганда  
Долгота 73°05'E широта 49°49'N

# Ионосферные данные

Поясное время 75°E

АН КАЗ ССР  
Кем составлена Савицкий  
Кем подсчитана Гартман

| Дни     | 00    | 01    | 02    | 03    | 04    | 05   | 06    | 07    | 08  | 09  | 10  | 11    | 12    | 13    | 14    | 15    | 16   | 17    | 18  | 19   | 20  | 21    | 22    | 23    |  |  |
|---------|-------|-------|-------|-------|-------|------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|------|-------|-----|------|-----|-------|-------|-------|--|--|
| 1       | 2.0   | E     | 2.2   | 1.6   | 1.2G  | 2.1  | 2.9   | 3.3   | 4.2 | 3.6 | 4.0 | 3.7   | 3.5   | G     | G     | 3.5   | G    | 3.0   | 3.6 | A    | 3.9 | 3.9   | 2.5   | 1.5   |  |  |
| 2       | G     | 1.5   | 1.6   | 1.3   | 2.3   | 2.0  | D3.5R | 4.7   | 4.7 | 4.8 | 4.0 | 4.1   | 3.6   | 4.7   | 3.7   | 4.0   | 3.1  | 4.1   | 5.0 | 3.4  | 4.5 | 3.3   | 4.0   | 1.5   |  |  |
| 3       | 2.1   | 3.5   | 1.9   | 1.7   | 1.6   | 2.0  | 2.5   | 4.0   | 3.8 | 4.0 | 3.7 | 3.4   | 3.5   | 3.3   | D3.2R | 3.3   | 3.1  | G     | 2.9 | 2.8  | 2.0 | 1.5   | 4.0   | 3.2   |  |  |
| 4       | 1.3   | 2.0   | 1.3   | 1.8   | G     | G    | 3.0   | C     | 4.4 | A   | 3.8 | 3.6   | 4.0   | 3.5   | D3.3R | 3.3   | 3.9  | 3.2   | 3.7 | 3.3  | 2.0 | 1.3   | 2.2   | E1.1B |  |  |
| 5       | 1.4   | E1.2B | G     | G     | G     | G    | G     | R     | 3.9 | 3.5 | 3.8 | 3.5   | 3.5   | 3.5   | 3.4   | 3.3   | G    | 3.0   | 2.9 | 3.0  | 3.4 | 1.6   | 1.9   | 1.6   |  |  |
| 6       | E1.2B | E1.2B | 1.2   | E1.1B | G     | G    | G     | 3.0   | 3.7 | A   | 3.8 | 3.5   | 3.6   | 3.4   | 3.4   | 3.9   | 3.7  | 3.1   | 2.7 | 2.4  | 4.0 | A     | 2.8   | 2.0   |  |  |
| 7       | 2.1   | 2.9   | 1.2   | 1.6   | 1.4   | 1.3G | 2.6   | 3.8   | 4.0 | 3.3 | 3.6 | 3.6   | D3.6R | 3.8   | 3.6   | 3.5   | 3.5  | 3.2   | 2.6 | 2.4  | 3.0 | 3.7   | 1.9   | 2.6   |  |  |
| 8       | 2.0   | 2.0   | 1.8   | 1.6   | 1.9   | 2.3  | 3.5   | 4.2   | 3.5 | 3.5 | 5.0 | D3.4R | D3.4R | G     | 3.6   | 3.8   | 3.6  | 4.2   | 3.3 | 2.6  | 2.0 | 1.5   | 1.3   | 2.1   |  |  |
| 9       | 2.2   | 1.8   | 1.8   | 1.3   | 1.3   | 1.9  | G     | 3.2   | 3.8 | 3.7 | A   | 4.1   | 3.6   | 4.2   | 3.6   | 3.9   | 3.6  | 3.0   | G   | 3.0  | 4.3 | 3.8   | 1.6   | 1.6   |  |  |
| 10      | 1.9   | 1.6   | 1.5   | 1.6   | 1.6   | 2.2  | 3.0   | 3.0   | 3.9 | 4.5 | 4.1 | 3.5   | 3.4   | 3.4   | G     | 3.3   | 3.5  | 3.5   | 2.6 | 2.4  | 1.6 | 1.2   | 1.4   | 1.5   |  |  |
| 11      | E     | E1.1B | E     | E1.1B | G     | 2.0  | 3.0   | 3.5   | 3.1 | 3.3 | 3.6 | 4.0   | A     | A     | 3.7   | 3.4   | 3.3  | 3.1   | 3.0 | 4.0  | A   | A     | 2.0   | 2.0   |  |  |
| 12      | 2.0   | 1.6   | E     | E     | G     | 2.0  | 2.7   | 4.0   | 3.6 | 3.3 | 3.4 | 3.4   | 3.4   | 3.4   | 3.3   | G     | G    | 3.0   | 3.1 | 3.2  | 1.8 | 1.5   | E     | 2.6   |  |  |
| 13      | E1.2B | E     | 1.9   | 3.0   | 1.5   | 1.8  | 2.0   | 3.0   | 3.7 | 3.5 | 3.7 | 4.6   | 3.6   | 4.0   | 3.4   | 3.2   | 3.0  | 2.7   | G   | 2.7  | 2.3 | 1.7   | 1.9   | 1.9   |  |  |
| 14      | E1.3B | E     | E     | G     | G     | 1.6  | 2.3   | 2.9   | 3.2 | 3.3 | 3.3 | 3.3   | 3.4   | D3.2R | 3.7   | 3.2   | 3.1  | 2.8   | 2.7 | 2.6  | 2.0 | E1.2B | 1.9   | 1.9   |  |  |
| 15      | 2.0   | A     | 2.1   | 1.3   | A     | A    | 2.7   | 3.1   | 4.4 | 4.3 | 3.7 | 3.9   | 3.8   | 3.7   | 3.4   | 3.3   | 3.1  | D2.5R | 2.5 | 2.3  | 2.0 | 2.6   | 1.5   | 1.5   |  |  |
| 16      | E1.3B | E1.2B | G     | E     | G     | 1.9  | 2.3   | 2.8   | 3.0 | 3.2 | 3.3 | 3.5   | 3.4   | 3.3   | G     | G     | 3.3  | 2.7   | 2.5 | 2.4  | 3.1 | 2.0   | 1.5   | 1.5   |  |  |
| 17      | 1.5   | 1.6   | 1.6   | E1.1B | 1.2   | 1.2G | 2.4   | 2.8   | 3.0 | 3.0 | 3.3 | 3.7   | D3.3R | 3.5   | 3.4   | 3.1   | 2.3G | 2.9   | 2.7 | 2.1  | 1.2 | G     | E1.2B | E1.1B |  |  |
| 18      | E1.2B | E1.1B | E     | A     | 2.2   | 2.0  | 2.4   | 3.4   | 5.0 | 4.0 | A   | 4.1   | 4.0   | 4.2   | 3.4   | 4.3   | 3.9  | 3.4   | 3.7 | 2.3  | 2.7 | 1.5   | A     | 1.3   |  |  |
| 19      | 2.2   | 1.5   | 1.3   | E1.2B | G     | 2.1  | 2.7   | 3.2   | 3.7 | 4.4 | 3.5 | 3.6   | 3.6   | 3.5   | 3.4   | 3.1   | 3.1  | 5.3   | 2.8 | A    | 2.3 | 3.2   | 1.5   | 2.2   |  |  |
| 20      | 1.9   | 1.9   | 1.8   | 1.7   | 1.6   | 1.9  | 3.1   | 3.8   | 4.1 | 3.7 | A   | 3.7   | 4.0   | 3.5   | 3.5   | D3.4R | 3.0  | 2.7   | 2.5 | 1.5G | 1.9 | 1.5   | 2.0   | E1.2B |  |  |
| 21      | G     | G     | G     | E     | G     | 2.0  | 2.6   | 2.9   | 3.1 | 3.4 | 3.5 | 5.1   | 4.1   | 3.4   | 3.3   | 3.3   | 3.8  | 3.3   | 3.0 | 2.1  | 1.7 | 2.2   | A     | 2.0   |  |  |
| 22      | 2.0   | 1.5   | 1.8   | A     | 1.8   | 1.8  | 2.8   | 4.0   | 3.1 | 4.0 | 3.5 | 3.6   | 3.5   | 3.6   | 3.4   | 3.3   | 3.0  | 2.7   | 2.6 | 2.2  | 1.6 | 2.4   | 1.5   | E     |  |  |
| 23      | E1.2B | E1.3B | E     | E1.1B | G     | G    | 2.4   | 3.0   | 3.1 | 3.6 | 3.3 | 3.6   | 4.0   | 3.8   | 3.3   | 3.9   | 4.0  | 4.0   | 2.7 | 4.7  | 3.1 | 1.9   | 1.7   | 2.0   |  |  |
| 24      | 1.8   | E1.7B | 1.5   | E     | G     | G    | 2.3   | 3.1   | A   | A   | A   | 4.1   | 4.0   | 4.0   | 5.3   | 3.7   | 3.1  | 3.0   | 4.0 | 4.0  | 3.6 | 2.8   | 2.9   | 1.5   |  |  |
| 25      | E1.5B | E1.2B | E     | E1.1B | 1.2   | 2.3  | 2.7   | 3.7   | 4.5 | 3.8 | 3.3 | 3.5   | 3.4   | 3.6   | 4.1   | G     | 3.4  | 3.3   | 3.1 | 2.7  | A   | 3.3   | 3.1   | 1.9   |  |  |
| 26      | 1.5   | E1.2B | E     | G     | 1.2   | 1.5  | G     | G     | 3.1 | 3.3 | 3.6 | 3.3   | 4.1   | 4.0   | 3.4   | 3.3   | 3.1  | 2.9   | 2.7 | A    | 1.8 | G     | G     | G     |  |  |
| 27      | G     | G     | E1.1B | 1.3   | E1.3B | 1.8  | 2.3   | D2.6R | 3.1 | 3.3 | 3.9 | 3.4   | 3.5   | 3.4   | 3.4   | 3.7   | 4.1  | 4.0   | 3.1 | 3.0  | 3.1 | 3.5   | 1.7   | E1.1B |  |  |
| 28      | 1.5   | E1.5B | E     | E1.2B | G     | 3.0  | A     | 3.1   | A   | A   | 3.6 | 3.3   | 3.3   | 3.4   | 3.3   | G     | 3.2  | 3.0   | 3.1 | 2.7  | 2.0 | 1.5   | 1.2   | 1.5   |  |  |
| 29      | 1.6   | 2.2   | 1.8   | 1.8   | 2.0   | 1.8  | C     | 4.0   | 3.5 | 3.3 | 4.0 | 3.4   | 3.7   | 3.5   | 3.6   | G     | G    | 3.1   | 3.0 | 3.0  | A   | 1.2   | 2.3   | 1.9   |  |  |
| 30      | 1.9   | E     | E     | E     | 1.2   | 2.8  | 3.5   | 3.6   | 4.2 | 3.8 | 3.3 | 3.3   | 3.5   | 3.5   | 3.3   | 3.3   | G    | 2.8   | 2.6 | 2.0  | 1.5 | 1.6   | 2.2   | 2.0   |  |  |
| 31      | 1.5   | E1.2B | E     | E     | G     | 1.7  | 2.4   | 3.1   | 3.1 | 3.4 | 3.3 | 3.4   | 3.4   | 3.7   | 4.0   | 3.4   | 3.1  | 2.7   | 2.3 | 1.8  | 2.3 | 1.5   | G     | G     |  |  |
| Медиана | 15    | E1.5B | 1.2   | E1.2B | 1.2   | 1.9  | 2.6   | 3.2   | 3.7 | 3.6 | 3.7 | 3.6   | 3.6   | 3.5   | 3.4   | 3.3   | 3.1  | 3.0   | 2.8 | 2.7  | 2.3 | 1.7   | 1.9   | 1.6   |  |  |
| Учено   | 31    | 31    | 31    | 31    | 31    | 31   | 30    | 29    | 31  | 31  | 31  | 31    | 31    | 31    | 31    | 31    | 31   | 31    | 31  | 31   | 31  | 31    | 31    | 31    |  |  |

Пробег частоты от 10 Мгц до 18.0 Мгц 2.0 сек Станция автоматическая (ручная, автоматическая)

Р min МГЦ июль 1973г.

(характеристика) (единицы) (месяц) (год)

Ионосферные данные

АН КАЗ ССР  
Савицкий (институт)

Кем составлена Перлыгиной  
Кем подсчитана

Станция Долгота 73°05'E широта 49°49'N

Поясное время 75°E

| Дни     | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |  |  |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 1       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 2       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.2 | 1.0 | 1.1 | 1.1 | 1.0  | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 3       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 |  |  |
| 4       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | C   | 1.2 | 1.2 | 1.0 | 1.0  | 1.1 | 1.2 | 1.1 | 1.2 | 1.1 | 1.0 | 1.1 | 1.1 | 1.2 | 1.0 | 1.2 | 1.1 |  |  |
| 5       | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | R   | 1.0 | 1.2 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 6       | 1.2 | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.2 |  |  |
| 7       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 |  |  |
| 8       | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.3 | 1.2 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 9       | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.2  | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.2 | 1.0 |  |  |
| 10      | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 |  |  |
| 11      | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 |  |  |
| 12      | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.2 | 1.2 | 1.0 | 1.0 | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.5 |  |  |
| 13      | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 14      | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.00 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.2 |  |  |
| 15      | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 |  |  |
| 16      | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.2 | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 |  |  |
| 17      | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.1 |  |  |
| 18      | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.1  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 19      | 1.2 | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 |  |  |
| 20      | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.2 |  |  |
| 21      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 |  |  |
| 22      | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 23      | 1.2 | 1.3 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 |  |  |
| 24      | 1.2 | 1.7 | 1.1 | 1.0 | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1  | 1.1 | 1.0 | 1.0 | 1.0 | 1.3 | 1.5 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 |  |  |
| 25      | 1.5 | 1.2 | 1.0 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 |  |  |
| 26      | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.0 |  |  |
| 27      | 1.5 | 1.5 | 1.1 | 1.0 | 1.3 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 |  |  |
| 28      | 1.0 | 1.5 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.3 | 1.2 | 1.0 | 1.0 |  |  |
| 29      | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | C   | 1.1 | 1.0 | 1.0 | 1.2 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| 30      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.3 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 |  |  |
| 31      | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.2 | 1.0 | 1.0 | 1.2 | 1.1 |  |  |
| Медiana | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |  |
| Учтено  | 31  | 31  | 31  | 31  | 31  | 31  | 30  | 29  | 31  | 31  | 31  | 31   | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  |  |  |

Пробег частоты от 10 Мгц до 18.0 Мгц 2.0 Мгц Станция автоматическая (ручная, автоматическая)

# Ионосферные данные

| Долгота  |      | 73°05'Е |      | широта |      |      |      |      |      |        |        |      |      | Поясное время |      |      |      |      |      |      |      |      |      | 75°Е |      |    |    |    |    |    |    |  |  | Кем подсчитана |  |  |  |  |  |  |  |  |  | Гартман |  |  |  |  |  |  |  |  |  |
|----------|------|---------|------|--------|------|------|------|------|------|--------|--------|------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|--|--|----------------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| Дни      | 1    | 2       | 3    | 4      | 5    | 6    | 7    | 8    | 9    | 10     | 11     | 12   | 13   | 14            | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26 | 27 | 28 | 29 | 30 | 31 |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 1        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 2        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 3        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 4        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 5        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 6        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 7        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 8        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 9        | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 10       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 11       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 12       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 13       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 14       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 15       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 16       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 17       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 18       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 19       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 20       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 21       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 22       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 23       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 24       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 25       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 26       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 27       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 28       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 29       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 30       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| 31       | 2.75 | 2.80    | 2.60 | 2.65   | 2.85 | 2.95 | A    | A    | 2.80 | J3.00S | U2.90S | 3.05 | 2.80 | 2.90          | 2.85 | 3.05 | 3.05 | A    | 3.00 | 3.00 | 2.90 | 2.80 | 2.95 |      |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Diap     | 0.10 | 0.15    | 0.15 | 0.20   | 0.20 | 0.20 | 0.25 | 0.15 | 0.25 | 0.20   | 0.20   | 0.25 | 0.20 | 0.35          | 0.30 | 0.10 | 0.15 | 0.15 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.20 | 0.10 |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Медиана  | 2.95 | 2.90    | 2.90 | 2.85   | 2.85 | 3.00 | 2.95 | 2.90 | 2.90 | 2.95   | 3.00   | 3.05 | 3.00 | 3.00          | 3.05 | 2.95 | 2.95 | 2.95 | 3.05 | 3.05 | 3.05 | 3.00 | 2.90 | 2.95 |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Учено    | 21   | 22      | 27   | 25     | 28   | 29   | 26   | 27   | 24   | 26     | 24     | 26   | 29   | 27            | 29   | 29   | 28   | 30   | 28   | 25   | 23   | 20   | 22   | 24   |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| В.кв.кв. | 2.90 | 2.80    | 2.80 | 2.80   | 2.80 | 2.90 | 2.80 | 2.80 | 2.80 | 2.80   | 2.80   | 2.80 | 2.80 | 2.80          | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |      |    |    |    |    |    |    |  |  |                |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |

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МГЦ ИЮЛЬ

1973

АН КАЗ ССР

(характеристика) (единицы) (месяц) (год)

Станция

Караганда

## Ионосферные данные

Кем составлена

Савицкой

(институт)

Долгота

73°05'E

широта

49°49'N

Поясное время

Кем подсчитана

Г артман

| Дни     | 00 | 01 | 02 | 03 | 04 | 05 | 06   | 07   | 08   | 09   | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18 | 19 | 20 | 21 | 22 | 23 |
|---------|----|----|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|
| 1       |    |    |    |    | L  | L  | L    | A    | A    | A    | A    | 3.75 | 3.60 | 3.80 | 3.55 | A    | 3.50 | 3.35 |    |    |    |    |    |    |
| 2       |    |    |    |    |    | L  | R    | A    | A    | A    | A    | A    | 3.85 | A    | 3.85 | A    | 3.45 | A    | A  | A  |    |    |    |    |
| 3       |    |    |    |    |    |    | 3.35 | A    | A    | A    | A    | 3.55 | 3.70 | 3.75 | 3.85 | 3.65 | L    | L    | L  | L  |    |    |    |    |
| 4       |    |    |    |    |    | L  | 3.15 | C    | A    | A    | A    | 3.55 | A    | 3.85 | 3.85 | 3.75 | A    | L    | A  |    |    |    |    |    |
| 5       |    |    |    |    |    | L  | 3.20 | R    | A    | 3.70 | 3.90 | 3.80 | 3.80 | 4.00 | 3.80 | 4.00 | L    | L    | L  | L  |    |    |    |    |
| 6       |    |    |    |    |    |    |      | A    | A    | A    | A    | 3.25 | 3.80 | 4.05 | 3.85 | A    | A    | L    | L  | L  |    |    |    |    |
| 7       |    |    |    |    |    | L  |      | L    | A    | 3.60 | 3.80 | 3.95 | 3.80 | A    | A    | 3.80 | L    | L    | L  | L  |    |    |    |    |
| 8       |    |    |    |    |    |    | L    | A    | A    | 3.75 | A    | 3.80 | 3.85 | 3.75 | 3.75 | A    | 3.45 | A    | L  | L  |    |    |    |    |
| 9       |    |    |    |    |    | L  |      | L    | A    | 3.90 | A    | 3.90 | 3.90 | A    | A    | A    | L    | L    | L  | L  |    |    |    |    |
| 10      |    |    |    |    |    |    | A    | 3.55 | A    | A    | A    | 3.75 | 3.75 | 3.65 | 3.80 | 3.75 | A    | L    | L  | L  |    |    |    |    |
| 11      |    |    |    |    |    | L  | L    | A    | 3.55 | 3.65 | 3.65 | A    | A    | A    | 3.70 | 3.85 | 3.80 | L    | L  | A  |    |    |    |    |
| 12      |    |    |    |    |    | L  | L    | A    | A    | 3.70 | 3.80 | 3.80 | 3.90 | 3.70 | 3.75 | 3.65 | 3.65 | L    | L  | L  |    |    |    |    |
| 13      |    |    |    |    |    |    | 3.35 | 3.55 | A    | A    | A    | A    | 3.75 | A    | 3.75 | 3.70 | 3.55 | 3.45 | L  | L  |    |    |    |    |
| 14      |    |    |    |    |    | L  | L    | 3.35 | 3.80 | 3.85 | 3.80 | 3.80 | 3.60 | 3.60 | A    | 3.50 | 3.50 | 3.40 | L  | L  |    |    |    |    |
| 15      |    |    |    |    |    |    | 3.55 | A    | A    | A    | 3.75 | A    | 3.55 | A    | 3.70 | 3.60 | 3.65 | L    | L  | L  |    |    |    |    |
| 16      |    |    |    |    |    |    |      | 3.35 | 3.45 | 3.65 | 3.70 | 3.65 | 3.70 | 3.70 | 3.60 | 3.75 | L    | L    | L  | L  |    |    |    |    |
| 17      |    |    |    |    |    | L  | 3.25 | 3.50 | 3.50 | 3.75 | 3.55 | A    | 3.90 | 3.80 | 3.85 | 3.90 | 3.50 | 3.50 | L  | L  |    |    |    |    |
| 18      |    |    |    |    |    |    | L    | A    | A    | A    | A    | A    | A    | A    | 3.75 | A    | L    | L    | L  |    |    |    |    |    |
| 19      |    |    |    |    |    |    | L    | 3.50 | A    | A    | 4.05 | 3.80 | 3.80 | 3.85 | 4.05 | 3.55 | 3.60 | A    | L  | A  |    |    |    |    |
| 20      |    |    |    |    |    | L  | L    | A    | A    | A    | A    | A    | A    | 3.75 | 3.70 | A    | 3.60 | L    | L  |    |    |    |    |    |
| 21      |    |    |    |    |    | L  | L    | 3.75 | A    | 3.70 | 3.70 | A    | 3.90 | 3.95 | 4.00 | 3.45 | L    | L    | L  | L  |    |    |    |    |
| 22      |    |    |    |    |    |    | L    | A    | A    | A    | A    | A    | 3.80 | 3.90 | 3.75 | 3.70 | 3.50 | L    | L  | L  |    |    |    |    |
| 23      |    |    |    |    |    |    | L    | 3.55 | 3.75 | A    | 3.80 | 3.75 | A    | A    | 3.85 | A    | L    | A    | L  | A  |    |    |    |    |
| 24      |    |    |    |    |    | L  | L    | 3.25 | A    | A    | A    | A    | A    | A    | A    | A    | L    | L    | A  |    |    |    |    |    |
| 25      |    |    |    |    |    | L  | L    | A    | A    | A    | 3.70 | 3.75 | 3.70 | 3.70 | A    | 3.65 | L    | A    | L  |    |    |    |    |    |
| 26      |    |    |    |    |    |    |      | 3.35 | 3.40 | 3.75 | A    | 3.60 | A    | A    | 4.00 | 3.50 | L    | L    | L  |    |    |    |    |    |
| 27      |    |    |    |    |    |    |      |      |      | 3.35 | A    | 3.70 | 3.75 | 3.45 | 3.55 | 3.70 | A    | A    | L  |    |    |    |    |    |
| 28      |    |    |    |    |    |    |      | A    | A    | 3.85 | 3.55 | 3.60 | 3.60 | 3.40 | 3.35 | 3.25 | 3.30 | L    | L  | L  |    |    |    |    |
| 29      |    |    |    |    |    |    |      | A    | A    | 3.50 | A    | 3.60 | 3.55 | 3.55 | A    | 4.00 | L    | L    | L  |    |    |    |    |    |
| 30      |    |    |    |    |    |    | A    | A    | A    | A    | 3.70 | 3.65 | 3.70 | 3.65 | 3.55 | 3.70 | L    | L    | L  | L  |    |    |    |    |
| 31      |    |    |    |    |    | L  | A    | 3.65 | 3.55 | 3.45 | 3.55 | 3.60 | A    | A    | 3.60 | L    | L    | L    | L  |    |    |    |    |    |
| Медиана |    |    |    |    |    |    | 3.30 | 3.50 | 3.55 | 3.70 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.70 | 3.50 | 3.40 |    |    |    |    |    |    |
| Учтено  |    |    |    |    |    |    | 6    | 10   | 7    | 14   | 15   | 21   | 24   | 20   | 24   | 22   | 13   | 5    |    |    |    |    |    |    |

Пробег частоты от

10

МГц до

18.0

МГц

2.0

сек  
мин.

Станция

АВТОМАТИЧЕСКАЯ

(ручная, автоматическая)



h'F КМ ИЮЛЬ 1973

(характеристики) (станции) (месяц) (год)

## Ионосферные данные

АН КАЗ ССР

Савицкий институт

Кем составлена

Дужесаровой

Кем подсчитана

Станция

73°05'E

49°49'N

Поясное время

75°E

Долгота

широта

| Дни      | 00    | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1        | E265A | E265E | E270A | E305A | 295   | 255   | I245A | I245A | I235A | I230A | I210A | 200   | 200   | 210   | 200   | I200A | 215   | 220   | E320A | A     | E305A | E295A | E255A | E255A |
| 2        | E270E | E280A | E300A | E275A | 300   | 250   | R     | A     | A     | A     | E250A | E245A | 195   | I225A | 225   | I225A | 205   | I235A | I230A | I250A | I260A | E290A | E300A | E235A |
| 3        | E270A | E300A | E260A | E270A | E270A | 270   | 230   | A     | E255A | E250A | E205A | 205   | 185   | 170   | 200   | 200   | 200   | 205   | 200   | 260   | 255   | E240A | E300A | E255A |
| 4        | E250A | 250   | E250A | E275A | 265   | 255   | 260   | C     | A     | A     | I205A | 200   | I220A | 195   | 190   | 200   | I235A | 210   | A     | 255   | E245A | E250A | E275A | E245B |
| 5        | E245A | E240B | E250E | E230E | 260   | 250   | 235   | I225R | I225A | 200   | 205   | 190   | 190   | 190   | 175   | 185   | 195H  | 200   | 235   | I250A | 255   | E245A | E250A | E235A |
| 6        | E240B | E260B | E255A | E245E | E235E | 225   | 230   | I225A | I205A | I215A | I225A | 195   | 195   | 175   | 195   | I200A | I210A | 225   | 210   | 250   | E290A | A     | E260A | E265A |
| 7        | E255A | E295A | E250A | E260A | 255   | 205   | 225   | I225A | I220A | 200   | 195   | 200   | 200   | I200A | I200A | 200   | 200   | 230   | 200   | 220   | I235A | E260A | E270A | E300A |
| 8        | E280A | E250A | E260A | E260A | E250A | 250   | I225A | I230A | I230A | 200   | I200A | 195   | 200   | 190   | 200   | I220A | 250   | I215A | I220A | 250   | 225   | E250A | E260A | E275A |
| 9        | E260A | E260A | E255A | E210A | 255   | 200   | 235   | 255   | I225A | 240   | I220A | 205   | 180   | I190A | I185A | I205A | I215A | 205   | 200   | E280A | E310A | E275A | E245A | E255A |
| 10       | E250A | E265A | E255A | E320A | E275A | 245   | E280A | 220   | I215A | I200A | I200A | 190   | 200   | 200   | 200   | 190   | E220A | E250A | E205A | 235   | 235   | 240   | E215A | E225A |
| 11       | E225E | E240B | E250E | E245B | 250   | 235   | E250A | E245A | 205   | 200   | 200   | E200A | I230A | I215A | 200   | 185   | 215   | 200   | 255   | A     | A     | A     | E270A | E240A |
| 12       | E260A | E240A | E240E | E250E | E240E | 245   | 245   | I230A | I215A | 200   | 195   | 195H  | 180   | 190H  | 200   | 200   | 205   | 205   | I215A | I220A | 250   | E230A | E225E | E255A |
| 13       | E230B | E240E | E295A | E30A  | E275A | I245A | 225   | 205   | E250A | E210A | E220A | I200A | 200   | I215A | 200   | 200   | 210   | 215   | 230   | I245A | 270   | E250A | E270A | E250A |
| 14       | E220B | E220E | E245E | E260E | E255E | 250   | 230   | 220   | 200   | 195   | 195   | 190   | 190   | 200   | I200A | 200   | 200   | 220   | 215   | 220   | I250A | E250B | E240A | E235A |
| 15       | E250A | A     | E340A | E250A | A     | A     | 240   | E245A | A     | A     | 205   | I195A | 210   | I200A | 200   | 205   | 205   | 210   | 235   | 230   | 240   | E265A | E255A | E245A |
| 16       | E255E | E245E | E290E | E260E | 270   | 240   | 220   | 220   | 205   | 215   | 205   | 205   | 195   | 190   | 200   | 200   | 225   | 200   | 220   | I250A | E250A | E250A | E250A | E240A |
| 17       | E250A | E275A | E270A | E240B | 275   | 255   | 205   | 205   | 220   | 205   | 205   | I195A | 200   | 195   | 195   | 200   | 205   | 200   | 230   | I225A | 245   | E235B | E235B | E240B |
| 18       | E250A | E245B | E240E | A     | E280A | 250   | 200   | E270A | A     | E300A | A     | E245A | E225A | E230A | 190   | I200A | I220A | I220A | I230A | 240   | 250   | E240A | A     | E240A |
| 19       | 255A  | E250A | E255A | E250A | 250   | 225   | 220   | 290   | E260A | A     | 190   | 200   | 200   | 195   | 190   | 220   | 200   | I200A | 220   | I240A | 255   | E265A | E240A | E230A |
| 20       | E245A | E255A | E260A | E255A | 270   | 250   | E250A | E320A | A     | E310A | A     | E205A | E230A | 200   | 195   | I200A | 200   | 215   | 210   | 230   | 250   | E245A | E250A | E250B |
| 21       | E245E | E260E | E270E | E255E | 250   | 245   | 225   | 210   | I205A | 205   | 200   | I200A | 200   | 175   | 175   | 200   | I215A | 225   | I215A | 230   | 255   | E240A | A     | E255A |
| 22       | E250A | E210A | E255A | A     | E255A | 220   | 240   | A     | E205A | E255A | E205A | E200A | 185   | 200   | 200   | 200   | 215   | 205   | 200   | 220   | 240   | E245A | E250A | E245E |
| 23       | E250B | E245E | E250E | E250B | E225E | 240   | 215   | 210   | 200   | I235A | 200   | 190   | I195A | I205A | 200   | I220A | I235A | I235A | 225   | E260A | E255A | E255A | E245A | E250A |
| 24       | E250A | E240B | E260A | E265E | E280B | 260   | 230   | 240   | A     | A     | A     | E250A | I205A | E205A | A     | E205A | 200E  | 205A  | A     | E280A | E250A | E250A | E250A | E255A |
| 25       | E240B | E250E | E240E | E250E | 280   | I255A | 240   | E275A | A     | I205A | 200   | 200   | 195   | 200   | I200A | 205   | 205   | I225A | E235A | 255   | A     | E255A | E250A | E250A |
| 26       | E260A | E245E | E220E | E260E | E260A | 255   | 230   | 220   | 220   | 205   | I215A | 200   | I200A | I200A | 190   | 210   | 215   | 220   | 240   | I255A | 245   | E240A | E250E | E255E |
| 27       | E295B | E245B | E290B | E225A | E310B | 275   | I245A | I215A | 230   | 240   | I205A | 205   | 205   | 205   | 200   | 240   | A     | A     | E270A | E290A | E290A | E280A | E270A | E245B |
| 28       | E300E | E250B | E250E | E275E | 270   | E325A | A     | 265   | A     | A     | I205A | 200   | 195   | 190   | 190   | 180   | 200   | 225   | 220   | 210   | I240A | 250   | E240A | E250A |
| 29       | E275A | E305A | E300A | E275A | E300A | 250   | C     | A     | I210A | 210   | I205A | 195   | 205   | 200   | I205A | 200   | 240   | 220   | 250   | E260A | A     | E245A | E250A | E255A |
| 30       | E250A | E275E | E265E | E270E | E265A | E330A | A     | E300A | A     | E250A | 200   | 200   | 210   | 200   | 190   | 205   | 240   | 220   | 215   | 250   | 250   | E255A | E290A | E290A |
| 31       | E250A | E265E | E240E | E215E | 255   | 255   | 250   | I240A | 220   | 210   | 210   | 200   | 190E  | E200A | I245A | 200   | 200H  | 220   | 230   | 250   | 255   | E250A | E250E | E355B |
| Диап     | -     | -     | -     | -     | 20    | 15    | 20    | 35    | 25    | 40    | 5     | 10    | 10    | 15    | 10    | 5     | 20    | 20    | 20    | 25    | 10    | -     | -     | -     |
| Медиана  | E250A | E250  | E255A | E260  | 265   | 250   | 230   | U225  | U215  | U205  | 205   | 200   | 200   | 200   | 200   | 200   | U210  | 215   | 220   | U240  | 250   | E250A | E250A | E250A |
| Учтено   | 31    | 30    | 31    | 29    | 30    | 30    | 27    | 26    | 22    | 25    | 28    | 31    | 31    | 31    | 30    | 31    | 30    | 30    | 29    | 29    | 28    | 29    | 29    | 31    |
| В. н. в. | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A | E245A |

Пробег частоты от 1.0 МГц до 18.0 МГц

МГц

2.0

мин.

Станция

АВТОМАТИЧЕСКАЯ

(ручная, автоматическая)

h'F2 км - июль 1973

(характеристика) (единицы) (месяц) (год)

Караганда

## Ионосферные данные

АН КАЗ ССР

(институт)

Кем составлена

Савицкой

Дужесаровой

Станция

73°05'E

широта

49°49'N

Поясное время

75°E

Кем подсчитана

Долгота

| Дни     | 00 | 01 | 02 | 03 | 04  | 05  | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15  | 16  | 17    | 18    | 19    | 20  | 21  | 22  | 23  |     |     |
|---------|----|----|----|----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| 1       |    |    |    |    | 305 | 305 | L     | 450   | 410   | 470   | 475   | 480   | 530   | 400   | 390   | 355 | 450 | 325   |       |       |     |     |     |     |     |     |
| 2       |    |    |    |    |     | 310 | E305R | E405A | E430A | 340   | 305   | 320   | 400   | 345   | 325   | 335 | 295 | 300   | I290A | 290   |     |     |     |     |     |     |
| 3       |    |    |    |    |     |     | 355   | 340   | 340   | 340   | 350   | 380   | 370   | 356   | 355   | 355 | 340 | U355L | 340   | 290   |     |     |     |     |     |     |
| 4       |    |    |    |    |     | 310 | 350   | I325C | 290   | I330A | 320   | 330   | 305   | 350   | 325   | 275 | 345 | 320   | 280   |       |     |     |     |     |     |     |
| 5       |    |    |    |    |     | 320 | 305   | I325R | 330   | 335   | 320   | 290   | 320   | 320   | 325   | 290 | 300 | 300   | 290   | 295   |     |     |     |     |     |     |
| 6       |    |    |    |    |     |     |       | 260   | 365   | I345A | 310   | 305   | 275   | 320   | 355   | 400 | 290 | 300   | 275   | 290   |     |     |     |     |     |     |
| 7       |    |    |    |    |     | 215 |       | 325   | 320   | 350   | 310   | 300   | 295   | 315   | 350   | 325 | 300 | 325   | 270   | 275   |     |     |     |     |     |     |
| 8       |    |    |    |    |     |     | 310   | 310   | 280   | 310   | 300   | 360   | 325   | 305   | 320   | 325 | 325 | 305   | 270   | 250   |     |     |     |     |     |     |
| 9       |    |    |    |    |     | 280 |       | 280   | 345   | 320   | I290A | 340   | 365   | 450   | 380   | 350 | L   | 320   | 290   | 310   |     |     |     |     |     |     |
| 10      |    |    |    |    |     |     | 390   | 405   | 405   | 350   | 275   | 295   | 400   | 325   | 330   | 355 | 330 | 305   | 315   | 280   |     |     |     |     |     |     |
| 11      |    |    |    |    |     | 295 | 290   | 345   | 305   | 350   | 300   | 325   | I310A | I325A | 375   | 325 | 325 | 290   | 300   | 290   |     |     |     |     |     |     |
| 12      |    |    |    |    |     | L   | 345   | 315   | 285   | 305   | 340   | 280   | 320   | 340   | 325   | 300 | 340 | 390   | 300   | 270   |     |     |     |     |     |     |
| 13      |    |    |    |    |     | 320 | 325   | 280   | 390   | 400   | 330   | 350   | 310   | 300   | 360   | 345 | 325 | 300   | 315   | 275   |     |     |     |     |     |     |
| 14      |    |    |    |    |     | 300 | 285   | 325   | 300   | 310   | 390   | 390   | 320   | 380   | 305   | 290 | 300 | 325   | 300   | 275   |     |     |     |     |     |     |
| 15      |    |    |    |    |     |     | 390   | 345   | 390   | 320   | 350   | 340   | 355   | 330   | 350   | 310 | 350 | 350   | 295   | 290   |     |     |     |     |     |     |
| 16      |    |    |    |    |     |     |       | 420   | 405   | 480   | 450   | 355   | 440   | 445   | 390   | 325 | 305 | 325   | 290   | 290   |     |     |     |     |     |     |
| 17      |    |    |    |    |     | 275 | 395   | 300   | 315   | 325   | 310   | 315   | 290   | 320   | 305   | 320 | 305 | 290   | 260   | 270   |     |     |     |     |     |     |
| 18      |    |    |    |    |     |     | L     | 390   | I330A | E290G | I300A | 315   | 320   | 345   | 340   | 305 | 300 | 270   | 330   |       |     |     |     |     |     |     |
| 19      |    |    |    |    |     |     | 245   | 355   | 295   | 340   | 305   | 350   | 350   | 305   | 300   | 325 | 300 | I310A | 275   | I275A |     |     |     |     |     |     |
| 20      |    |    |    |    |     | 270 | 315   | 330   | 305   | 355   | I380A | 355   | 305   | 300   | 320   | 310 | 335 | 290   | 270   |       |     |     |     |     |     |     |
| 21      |    |    |    |    |     | 255 | 300   | 330   | 355   | 370   | 295   | E350A | 355   | 355   | 360   | 300 | 335 | 320   | 300   | 265   |     |     |     |     |     |     |
| 22      |    |    |    |    |     |     | 350   | 330   | 300   | 300   | 350   | 300   | 295   | 355   | 355   | 330 | 315 | 350   | 280   | 260   |     |     |     |     |     |     |
| 23      |    |    |    |    |     |     | L     | 315   | 300   | 330   | 365   | 315   | 325   | 350   | 355   | 320 | 355 | 300   | 290   |       |     |     |     |     |     |     |
| 24      |    |    |    |    |     | 350 | 280   | 405   | I305A | I310A | I310A | 350   | 350   | 290   | E340A | 310 | 310 | 325   | 295   |       |     |     |     |     |     |     |
| 25      |    |    |    |    |     | 340 | 295   | 340   | 380   | 355   | 320   | 300   | 345   | 350   | 300   | 305 | 320 | 290   | 280   |       |     |     |     |     |     |     |
| 26      |    |    |    |    |     |     |       | 350   | 320   | 325   | 330   | 370   | 305   | 295   | 330   | 340 | 305 | 305   | 240   |       |     |     |     |     |     |     |
| 27      |    |    |    |    |     |     |       |       |       | 455   | 525   | 460   | 500   | 460   | 420   | 470 | 335 | 350   | 305   |       |     |     |     |     |     |     |
| 28      |    |    |    |    |     |     |       |       | A     | A     | 550   | 505   | 415   | 475   | 450   | 450 | 405 | 325   | 345   | 320   | 265 |     |     |     |     |     |
| 29      |    |    |    |    |     |     |       | 300   | 325   | 350   | 410   | 425   | 320   | 350   | 355   | 320 | 315 | 340   | 270   |       |     |     |     |     |     |     |
| 30      |    |    |    |    |     | 330 | 315   | 325   | 325   | 410   | 430   | 350   | 305   | 370   | 440   | 340 | 390 | 300   | 305   | 305   |     |     |     |     |     |     |
| 31      |    |    |    |    |     |     | U420L | 325   | 350   | 440   | 315   | 355   | 350   | 360   | 450   | 295 | 320 | 310   | 280   | L     |     |     |     |     |     |     |
| Диап    |    |    |    |    | 5   | 45  | 50    | 35    | 70    | 35    | 75    | 45    | 60    | 40    | 50    | 35  | 35  | 25    | 25    | 20    |     |     |     |     |     |     |
| Медиана |    |    |    |    | 305 | 300 | 320   | 330   | 325   | 340   | 320   | 350   | 325   | 345   | 350   | 325 | 320 | 310   | 290   | 285   | 265 |     |     |     |     |     |
| Учено   |    |    |    |    | 1   | 14  | 20    | 29    | 29    | 30    | 31    | 31    | 31    | 31    | 31    | 31  | 30  | 31    | 30    | 20    | 1   |     |     |     |     |     |
| В.Р.В.  |    |    |    |    |     | 275 | 310   | 300   | 350   | 315   | 350   | 300   | 360   | 305   | 365   | 320 | 360 | 325   | 310   | 305   | 340 | 200 | 325 | 315 | 300 | 270 |

Пробег частоты от 10 МГц до 18.0 МГц

МГц

2.0

сек

Станция

автоматическая

(ручная, автоматическая)

Н Е

КМ - ИЮЛЬ

1973

АН КАЗ

СССР

(характеристика) (единицы) (месяц) (год)

Караганда

## Ионосферные данные

Кем составлена

Савицкий

Гартман

Станция

Долгота

73° 05' E

широта 49° 49' N

Поясное время

75° E

Кем подсчитана

| Дни     | 00 | 01 | 02 | 03 | 04A | 05A   | 06    | 07   | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17    | 18    | 19    | 20    | 21 | 22 | 23 |
|---------|----|----|----|----|-----|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|----|----|----|
| 1       |    |    |    |    |     | A     | 105   | 105  | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E125E | A  |    |    |
| 2       | E  |    |    |    | A   | A     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E     |    |    |    |
| 3       |    |    |    |    |     | 120H  | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 110   | E120B | B     | A  |    |    |
| 4       |    |    |    |    | E   | B     | 110   | 105E | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 105 | 105   | 110   | 110   | B     | A  |    |    |
| 5       |    |    | E  | E  | E   | E120E | 105   | 105R | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E     | A  |    |    |
| 6       |    |    |    |    | E   | 115H  | 105H  | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | B     |    |    |    |
| 7       |    |    |    |    | A   | A     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | A     | A  |    |    |
| 8       |    |    |    |    | A   | 105   | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E     |    |    |    |
| 9       |    |    |    |    | A   | 110   | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | B     |    |    |    |
| 10      |    |    |    |    | A   | 115   | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | A     | A  |    |    |
| 11      |    |    |    |    | B   | A     | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 105   | E     | A  |    |    |
| 12      |    |    |    |    | E   | A     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | A     | A  |    |    |
| 13      |    |    |    |    | A   | A     | E120A | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | E     | A  |    |    |
| 14      |    |    |    | E  | E   | 115   | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | E     | A     | A     |    |    |    |
| 15      |    |    |    |    |     | A     | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | I110A | E     | A  |    |    |
| 16      |    |    | E  |    | E   | E120E | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E     | A  |    |    |
| 17      |    |    |    |    | A   | A     | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A   | U110A | U110A | E125A | A     | B  |    |    |
| 18      |    |    |    |    |     | A     | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A     | A     | A     | A     |    |    |    |
| 19      |    |    |    |    | E   | A     | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 115   | B     |    |    |    |
| 20      |    |    |    |    | A   | E     | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 105   | 105   | A     | B     | A  |    |    |
| 21      | E  | E  | E  |    | E   |       | 110   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | I110E | A     | A  |    |    |
| 22      |    |    |    |    |     | A     | 105   | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 105   | E     | A  |    |    |
| 23      |    |    |    |    | E   | E     | 105   | 105  | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 105   | A     | A  |    |    |
| 24      |    |    |    |    | B   | B     | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 105   | 110   | 115   | E     | A  |    |    |
| 25      |    |    |    |    | A   | B     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | A     | A     |    |    |    |
| 26      |    |    |    | E  | A   | A     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | E     | E  | B  | E  |
| 27      | B  | B  |    |    |     | A     | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | 110   | B     | A  |    |    |
| 28      |    |    |    |    | E   | A     | A     | A    | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 100   | U110A | B     | A  |    |    |
| 29      |    |    |    |    |     | A     | C     | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 105   | 105   | 110   | E     | A  |    |    |
| 30      |    |    |    |    |     | A     | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | E115B | A     |    |    |    |
| 31      |    |    |    |    | E   | E120E | 110   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100   | 105   | E120B | E     | A  | B  | B  |
| Медиана | E  | E  | E  | E  | E   | 120   | 105   | 105  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105   | 105   | 110   | E     | E  | -  | E  |
| Учено   | 2  | 1  | 3  | 3  | 11  | 10    | 29    | 30   | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 30  | 31    | 30    | 27    | 13    | 1  | -  | 1  |

Пробег частоты от 10 МГц до 18.0 МГц

сек мин.

Станция

автоматическая

(ручная, автоматическая)

HF's

КМ

ИЮЛЬ

1973

АН КАЗ ССР

(характеристики) (единицы) (месяц) (год)

## Ионосферные данные

(институт)

Станция

Кем составлена

Савицкой

Долгота

73°05'E

широта

49°49'N

Поясное время

75°E

Кем подсчитана

Гейко

| Дни     | 00  | 01  | 02  | 03  | 04  | 05    | 06    | 07    | 08  | 09  | 10  | 11  | 12   | 13  | 14  | 15    | 16    | 17    | 18    | 19    | 20   | 21   | 22  | 23  |  |  |
|---------|-----|-----|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|------|-----|-----|-------|-------|-------|-------|-------|------|------|-----|-----|--|--|
| 1       | 105 | 105 | 105 | 105 | 105 | E145G | 125   | 125   | 115 | 115 | 110 | 105 | 110  | 105 | 105 | 105   | 110   | E155G | 125   | 115   | 115  | 110  | 105 | 105 |  |  |
| 2       | G   | 105 | 105 | 105 | 105 | 105   | 120   | 120   | 115 | 115 | 110 | 105 | 110  | 105 | 105 | 105   | 110   | 110   | 130   | 135   | 125  | 120  | 115 | 110 |  |  |
| 3       | 105 | 105 | 105 | 105 | 105 | E140G | 135   | 120   | 110 | 110 | 110 | 110 | 105  | 125 | 130 | E145G | 110   | G     | 130   | 125   | 120  | 115  | 110 | 110 |  |  |
| 4       | 110 | 105 | 105 | 100 | G   | G     | 135   | C     | 115 | 110 | 110 | 110 | 105  | 105 | 125 | 115   | 110   | 140   | 125   | 115   | 115  | 115  | 110 | B   |  |  |
| 5       | 110 | B   | G   | G   | G   | G     | G     | R     | 115 | 115 | 110 | 110 | 115  | 110 | 120 | 120   | G     | E135G | E195G | 120   | 115  | 115  | 110 | 110 |  |  |
| 6       | B   | 105 | 105 | B   | G   | G     | G     | 120   | 120 | 115 | 120 | 125 | 110  | 110 | 105 | 105   | 105   | 105   | 120   | 125   | 115  | 115  | 110 | 105 |  |  |
| 7       | 105 | 105 | 105 | 105 | 105 | 105   | E150G | 120   | 115 | 110 | 115 | 115 | 130G | 110 | 110 | 105   | 110   | 105   | E135G | 125   | 115  | 110  | 110 | 105 |  |  |
| 8       | 105 | 100 | 100 | 100 | 100 | 100   | 120   | 110   | 120 | 115 | 105 | 105 | 105  | G   | 130 | 130   | 115   | 115   | 110   | 110   | 115  | 110  | 105 | 105 |  |  |
| 9       | 105 | 105 | 100 | 100 | 100 | 115   | G     | 130   | 115 | 120 | 105 | 105 | 105  | 105 | 105 | 105   | 105   | 105   | G     | 120   | 115  | 110  | 110 | 110 |  |  |
| 10      | 105 | 105 | 105 | 100 | 100 | 120   | 115   | 110   | 105 | 105 | 105 | 105 | 105  | 105 | 100 | E155G | 125   | 120   | 110   | 110   | 105  | 105  | 105 | 105 |  |  |
| 11      | E   | B   | E   | B   | G   | E140G | 115   | 110   | 110 | 120 | 110 | 105 | 105  | 105 | 105 | 110   | E160G | 105   | 105   | 105   | 110  | 110  | 110 | 105 |  |  |
| 12      | 100 | 100 | 100 | E   | G   | 130   | 125   | 110   | 110 | 105 | 110 | 105 | 110  | 105 | 105 | 100   | 100   | E140G | 110   | 110   | 110  | 110  | E   | 105 |  |  |
| 13      | B   | E   | 105 | 100 | 105 | 100   | 100   | 120   | 115 | 115 | 110 | 105 | 105  | 105 | 105 | 105   | 105   | 105   | G     | 120   | 115  | 110  | 105 | 105 |  |  |
| 14      | B   | E   | E   | G   | G   | 125   | 125   | 110   | 110 | 105 | 110 | 110 | 105  | 110 | 105 | E160G | 100   | 100   | 100   | 100   | 100  | B    | 105 | 105 |  |  |
| 15      | 105 | 105 | 105 | 100 | 100 | 100   | 135   | 120   | 110 | 110 | 105 | 105 | 105  | 105 | 105 | 105   | 100   | 105   | E145G | 140   | 120  | 110  | 110 | 105 |  |  |
| 16      | 105 | B   | G   | 100 | G   | 130   | 130   | 120   | 125 | 110 | 115 | 105 | 105  | 105 | 105 | 100   | 105   | 105   | E140G | 120   | 115  | 105  | 105 | 105 |  |  |
| 17      | 105 | 105 | 100 | 100 | 105 | 105   | 115   | 110   | 110 | 105 | 110 | 105 | 105  | 105 | 105 | 105   | 100   | E150G | E155G | E140G | 100  | G    | B   | B   |  |  |
| 18      | B   | B   | 130 | 105 | 100 | 140   | 130   | 120   | 115 | 110 | 105 | 105 | 105  | 105 | 105 | 105   | 100   | 100   | 100   | 100   | 100  | 115  | 115 | 100 |  |  |
| 19      | 105 | 100 | 100 | B   | G   | 140   | 130   | 120   | 120 | 110 | 115 | 105 | 105  | 105 | 105 | 105   | 105   | 105   | 105   | 120   | 120  | 110  | 105 | 105 |  |  |
| 20      | 105 | 105 | 105 | 100 | 105 | 140   | 125   | 120   | 120 | 115 | 110 | 105 | 105  | 115 | 105 | 105   | 105   | 105   | 105   | 105   | 115  | 110  | 105 | B   |  |  |
| 21      | G   | G   | G   | E   | G   | 130   | 125   | 115   | 115 | 120 | 115 | 105 | 110  | 110 | 110 | 125   | 125   | 120   | 110   | 110   | 115  | 100  | 110 | 105 |  |  |
| 22      | 105 | 105 | 105 | 105 | 100 | 110   | 125   | 115   | 110 | 110 | 115 | 110 | 110  | 115 | 110 | 110   | 115   | 115   | E145G | 125   | 115  | 115  | 110 | 115 |  |  |
| 23      | 110 | B   | E   | B   | G   | G     | 115   | 115   | 120 | 115 | 105 | 125 | 110  | 115 | 115 | 105   | 105   | 105   | 105   | 115   | 115  | 115H | 105 | 105 |  |  |
| 24      | 105 | B   | 115 | E   | G   | G     | 130   | E145G | 115 | 110 | 115 | 120 | 120  | 110 | 105 | 115   | 115   | 130   | 120   | 120   | 115  | 115  | 105 | 105 |  |  |
| 25      | 105 | B   | E   | B   | 120 | 120   | 120   | 115   | 110 | 105 | 105 | 105 | 115  | 115 | 110 | 100   | E145G | 125   | 120   | 120   | 115H | 115  | 110 | 105 |  |  |
| 26      | 105 | B   | E   | G   | 100 | 110   | G     | G     | 115 | 120 | 110 | 115 | 105  | 100 | 100 | E190G | E150G | E150G | 140   | 110   | 110  | G    | G   | G   |  |  |
| 27      | G   | G   | B   | 120 | B   | 115   | 115   | 105   | 115 | 115 | 110 | 105 | 105  | 105 | 105 | E150G | 125   | 125   | 125   | 120   | 110  | 110  | 110 | B   |  |  |
| 28      | 105 | B   | E   | B   | 105 | 100   | 100   | 115   | 115 | 110 | 110 | 115 | 110  | 105 | 105 | 100   | E170G | E150G | 130   | 125   | 115  | 115  | 110 | 110 |  |  |
| 29      | 105 | 105 | 105 | 105 | 105 | 100   | C     | 115   | 110 | 115 | 110 | 115 | 105  | 120 | 105 | 100   | G     | 125   | 120   | 115   | 110  | 105  | 105 | 105 |  |  |
| 30      | 100 | E   | E   | 120 | 105 | 115   | 110   | 110   | 110 | 105 | 105 | 110 | 105  | 105 | 105 | E175G | G     | E150G | 130   | E140G | 120  | 115  | 115 | 110 |  |  |
| 31      | 105 | B   | E   | E   | G   | 125   | 120   | 110   | 115 | 110 | 115 | 110 | 110  | 105 | 105 | E170G | E155G | E150G | 120   | 125   | 115  | 110  | G   | G   |  |  |
| Медиана | 105 | 105 | 105 | 105 | 105 | 120   | 125   | 115   | 115 | 110 | 110 | 105 | 105  | 105 | 105 | 105   | 110   | 110   | 115   | 120   | 115  | 110  | 110 | 105 |  |  |
| Учтено  | 23  | 16  | 19  | 18  | 18  | 26    | 26    | 28    | 31  | 31  | 31  | 31  | 31   | 30  | 31  | 31    | 27    | 30    | 29    | 31    | 31   | 28   | 27  | 25  |  |  |

Пробег частоты от № IO МГц до

18.0

МГц

2.0

сек

Станция

автоматическая

(ручная, автоматическая)



ТИПЫ В

ИЮЛЬ

1973 г

(характеристики) (единицы) (месяц) (год)

# Ионосферные данные

АН

КАЗ

ССР

Савицкий (институт)

Кем составлена

Кем подсчитана

Станция

Долгота

73°05'E

широта

49°49'N

Поясное время

75°E

| Дни     | 00 | 01 | 02 | 03 | 04 | 05     | 06   | 07   | 08   | 09   | 10   | 11   | 12   | 13   | 14   | 15   | 16     | 17   | 18   | 19   | 20 | 21 | 22 | 23 |  |  |
|---------|----|----|----|----|----|--------|------|------|------|------|------|------|------|------|------|------|--------|------|------|------|----|----|----|----|--|--|
| 1       | F7 | F2 | F4 | F3 | L1 | L1 C1L | C2   | C4   | C3   | C2   | C2   | C2   | C1L1 | L1   | L1   | C2L1 |        | H1   | C4   | C5   | C5 | L8 | F5 | F2 |  |  |
| 2       |    | F2 | F2 | F1 | L3 | L2     | C3   | C5   | C5L1 | C4L1 | C2L1 | C2L1 | C2L1 | C3L1 | C3L1 | C3L1 | C2L1   | C3   | C4   | C5L1 | C6 | F6 | F6 | F2 |  |  |
| 3       | F2 | F3 | F3 | F2 | F4 | C2     | C2L1 | C3   | C3   | C3   | C2L1 | C2   | C2   | C1L1 | C1L1 | C1L1 | C1     |      | C2   | C3   | C3 | L3 | F6 | F4 |  |  |
| 4       | F2 | F3 | F2 | F2 |    |        | C1   |      | C3   | C3L1 | C2   | C1L1 | C1   | C2   | C1L1 | C2   | C3L1   | C3   | C3   | C5   | C3 | L2 | F3 |    |  |  |
| 5       | F2 |    |    |    |    |        |      |      | C2   | C1   | C1   | C1   | C1   | C1   | C1L1 | C2L1 |        | C1   | H1   | C3   | C3 | L2 | F3 | F2 |  |  |
| 6       |    | F2 | F2 |    |    |        |      | C2   | C3   | C2   | C1   | C1   | C2   | C2   | C1   | C2   | C3     | C3   | C1L1 | C3   | C6 | F5 | F4 | F4 |  |  |
| 7       | F3 | F3 | F2 | F2 | L2 | L1     | C1   | C2L1 | C3   | C2   | C2   | C1L1 | C1   | C2L1 | C2L1 | C2L1 | C2     | C2   | C2   | C2   | L4 | L7 | F6 | F2 |  |  |
| 8       | F3 | F2 | F2 | F2 | F4 | L4     | C4   | C3   | C3   | C2   | C4   | C2L1 | C1L1 |      | C1L1 | C1   | C2     | C2   | C2   | C3   | C3 | F2 | F7 | F2 |  |  |
| 9       | F4 | F3 | F3 | F2 | L1 | C2     |      | C2   | C3   | C2   | C4   | C3L1 | C2L1 | C3L1 | C3L1 | C3L1 | C4L1   | C3L1 |      | C4   | C7 | F4 | F2 | F3 |  |  |
| 10      | F2 | F1 | F2 | F5 | L1 | C7     | C4   | C3   | C3   | C3   | C3L1 | C2   | C2   | C1   | L1   | C1L1 | C2L1   | C4   | C2L1 | C4   | L2 | L2 | F1 | F1 |  |  |
| 11      |    |    |    |    |    | C1L1   | C3   | C4   | C2L1 | C2L1 | C2L1 | C4L1 | C4L1 | C3L1 | C2L1 | C2L1 | H1C1   | C2   | C5   | C3   | C3 | L7 | F4 | F5 |  |  |
| 12      | F5 | F4 | F2 |    |    | C4L1   | C3L1 | C4   | C4   | C3L1 | C2L1 | C1L1 | C1L1 | C1L1 | C1L1 | L1   | L1     | C1L1 | C3L1 | C5   | L2 | L3 |    | F5 |  |  |
| 13      |    |    | F4 | F7 | L2 | L3     | L4   | C3   | C4   | C2   | C2   | C3   | C2L1 | C3L1 | C3L1 | C2L1 | C2L1   | C3L1 |      | C5   | C3 | L1 | F4 | F3 |  |  |
| 14      |    |    |    |    |    | C4     | C4L1 | C3L1 | C1   | C1L1 | C2L1 | C2L1 | C2L1 | C2L1 | C3L1 | C1L1 | L1     | C4   | C5   | L4   | L3 |    | F4 | F3 |  |  |
| 15      | F3 | F5 | F7 | F2 | F4 | L4     | C3L1 | C4L1 | C4L1 | C4L1 | C2L1 | C3L1 | C2L1 | C3L1 | C3L1 | C3L1 | C1     | C3   | C1   | C2L1 | C4 | L4 | F2 | F1 |  |  |
| 16      | F1 |    |    | F1 |    | C4L1   | C1L1 | C2   | C1L1 | C2L1 | C2L1 | C2L1 | C2L1 | C1   | C1   | L1   | C2     | C2   | C1   | C4   | C5 | L4 | F3 | F2 |  |  |
| 17      | F1 | F2 | F4 | F2 | L1 | L2     | C2   | C1   | C1   | C1   | C2L1 | C3L1 | C3L1 | C3L1 | C2L1 | C2L1 | L2     | C1L1 | C1L1 | C2L1 | L1 |    |    |    |  |  |
| 18      |    |    | F1 | F3 | F3 | C3L1   | C2L1 | C5   | C4L1 | C2L1 | C3L1 | C3L1 | C3L1 | C3L1 | C3L1 | C3   | C4     | L2   | L3   | L2   | L4 | L1 | F6 | F1 |  |  |
| 19      | F3 | F1 | F1 |    |    | C4L1   | C3   | C3   | C3   | C3L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1   | C4L1 | C3   | C4   | C3 | F4 | F3 | F2 |  |  |
| 20      | F2 | F2 | F2 | F3 | L2 | C2     | C2   | C3   | C3   | C2   | C3L1 | C2L1 | C2L1 | C1   | C2L1 | C3   | C3     | C2   | C3   | L2   | C3 | L2 | F3 |    |  |  |
| 21      |    |    |    |    |    | C1L1   | C2   | C1   | C2L1 | C2L1 | C2L1 | C3L1 | C1L1 | C2L1 | C1L1 | C1L1 | C3L1   | C3   | C3   | C3   | L1 | L2 | F4 | F2 |  |  |
| 22      | F3 | F2 | F3 | F8 | F4 | L1     | C3   | C4   | C3   | C3   | C2   | C2   | C2   | C2L1 | C1   | C1L1 | C2     | C2   | C2   | C4   | C3 | L4 | F2 | F1 |  |  |
| 23      | F1 |    |    |    |    |        | C2   | C3   | C2   | C3L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | C3L1 | C3L1   | C3   | L2   | C4L1 | L5 | L2 | F2 | F3 |  |  |
| 24      | F2 |    | F1 |    |    |        | C2   | C2   | C4   | C3   | C3L1 | C2   | C1   | C2   | C4   | C2   | C1     | C1   | C3L1 | C3   | C3 | L3 | F2 | F3 |  |  |
| 25      | F1 |    |    |    | L1 | C3     | C3   | C4   | C2   | C2   | C1L1 | C2L1 | C1L1 | C1L1 | C3L1 | L1   | H3L1   | C3L1 | C2L1 | C2L1 | L3 | F6 | F5 | F1 |  |  |
| 26      | F1 |    |    |    | L1 | L1     |      |      | C1   | C2L1 | C3L1 | C1L1 | C3L1 | L2   | L2   | H1L2 | H1L2   | C1L1 | C1L1 | C3   | C3 |    |    |    |  |  |
| 27      |    |    |    | F3 |    | L2     | C3   | C2   | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | C2L1 | H2L1 | C2L1   | C3   | C4   | C5   | C5 | L7 | F2 |    |  |  |
| 28      | F2 |    |    |    | L1 | L3     | L2   | C3L1 | C3   | C4L1 | C2L1 | C1L1 | C2L1 | C2   | C2   | L1   | H1C1L1 | C1L1 | C2L1 | C1L1 | C2 | L2 | E1 | F2 |  |  |
| 29      | F3 | F2 | F2 | F2 | F3 | L1     |      | C3L1 | C2L1 | C3L1 | C2   | C1   | C2   | C2L1 | C2L1 | L1   |        | C3   | C3L1 | C2   | C4 | L2 | F2 | F4 |  |  |
| 30      | F1 |    |    | F1 | F1 | C4L1   | C3   | C4   | C3   | C3   | C4L1 | C2   | C2   | C1   | C1   | H1   |        | C1   | C1   | C1   | L2 | F1 | F3 | F2 |  |  |
| 31      | F1 |    |    |    |    | C2     | C2   | C3   | C2L1 | C3L1 | C2L1 | C2   | C2L1 | C2L1 | C3L1 | H1L1 | H1L1C1 | C1L1 | C3   | C1   | C6 | L2 |    |    |  |  |
| Медиана |    |    |    |    |    |        |      |      |      |      |      |      |      |      |      |      |        |      |      |      |    |    |    |    |  |  |
| Учено   |    |    |    |    |    |        |      |      |      |      |      |      |      |      |      |      |        |      |      |      |    |    |    |    |  |  |

Пробег частоты от 10 МГц до 18.0 МГц

2.0

сек

Станция автоматическая

(ручная, автоматическая)

Ионосферные данные

Кем составлена

Гартман

Кем подсчитана

| Дни     | 00    | 01    | 02    | 03    | 04    | 05    | 06  | 07    | 08    | 09  | 10    | 11    | 12    | 13  | 14  | 15    | 16    | 17  | 18  | 19    | 20  | 21    | 22    | 23    |  |  |
|---------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-------|-------|-------|-----|-----|-------|-------|-----|-----|-------|-----|-------|-------|-------|--|--|
| 1       | S     | 360   | 345   | 370   | 340   | 310   | G   | G     | A     | G   | G     | G     | G     | G   | G   | G     | G     | 325 | A   | A     | 320 | 330   | 330   | 330   |  |  |
| 2       | 360   | 355   | 390   | 375   | 340   | 315   | 315 | A     | A     | 345 | J305S | U330S | G     | 350 | 325 | 335   | 300   | 300 | A   | 305   | 305 | 330   | 355   | 315   |  |  |
| 3       | S     | J340S | 325   | 335   | 325F  | 330   | 355 | 340   | 340   | 340 | G     | G     | G     | G   | G   | G     | 340   | 355 | 345 | 305   | 315 | 305   | 330   | S     |  |  |
| 4       | 320   | S     | 330   | 340   | 340   | 320   | 350 | C     | J350S | A   | R     | 330   | 305   | 350 | 325 | J275S | 345   | 320 | 280 | U270S | 300 | 325   | 345   | 320   |  |  |
| 5       | 310   | 320   | 325   | 300   | 335   | 320   | 310 | R     | 330   | 335 | U320S | 300   | 320   | 320 | 330 | 295   | 300   | 310 | 290 | 300   | 290 | 320   | 315   | 315   |  |  |
| 6       | 330   | 340   | J330S | 320   | 280   | 310   | R   | R     | G     | A   | 315   | 305   | 280   | 320 | G   | G     | 290   | 300 | 280 | 305   | 305 | A     | S     | 330   |  |  |
| 7       | 330   | 350   | 330   | 350   | 300   | S     | 330 | 335   | 320   | 350 | 315   | J300S | J295S | R   | 350 | 325   | R     | 325 | 275 | 300   | 300 | 305   | S     | S     |  |  |
| 8       | 330   | J300S | 330   | 310   | 300   | 265   | 315 | 315   | S     | 315 | 305   | 365   | 325   | 310 | G   | 325   | 330   | 315 | 290 | J270S | 290 | 350   | S     | S     |  |  |
| 9       | S     | 325   | 325   | S     | 350V  | 300   | S   | 280   | 345   | 320 | A     | S     | G     | S   | G   | 350   | S     | 320 | 305 | 350   | 310 | S     | S     | 340   |  |  |
| 10      | S     | 350   | S     | S     | U335S | J350S | G   | G     | G     | 350 | 290   | 300   | G     | G   | G   | 355   | 330   | 310 | 315 | 310   | S   | S     | 300   | S     |  |  |
| 11      | 300   | 320   | 330   | 300   | 300   | 300   | 300 | 340   | 315   | 350 | J305S | 330   | A     | A   | G   | 325   | 325   | 295 | 300 | 300   | A   | A     | 335   | S     |  |  |
| 12      | S     | S     | 310N  | 330   | 345   | 315   | 355 | 330   | 300   | 305 | 345   | 280   | 320   | G   | G   | G     | 340   | G   | 305 | 305   | 315 | S     | 305   | 290   |  |  |
| 13      | U310S | S     | S     | J355S | 350   | 320   | 325 | 280   | G     | G   | 330   | 350   | 310   | 305 | G   | 345   | 325   | 300 | 290 | 290   | S   | 310   | 340   | 300   |  |  |
| 14      | 295   | S     | 315   | 350   | 355   | 300   | 285 | 325   | 300   | 310 | G     | G     | 320   | 380 | G   | 300   | 300   | 330 | 305 | 300   | 305 | 320   | 300   | 300   |  |  |
| 15      | U305S | A     | S     | 300   | A     | A     | G   | 345   | 390   | 320 | 350   | 340   | 355   | 340 | 350 | 310   | 350   | 350 | 305 | 305   | 295 | 310   | 320   | 305   |  |  |
| 16      | S     | 340   | 350   | 350   | 320   | 280   | S   | G     | G     | G   | 350   | G     | G     | G   | G   | 325   | 305   | 325 | 300 | 300   | 295 | 320   | 310   | 300   |  |  |
| 17      | U325S | 350   | 345   | 305   | 350   | 280   | G   | 300   | 315   | 330 | 315   | 320   | 295   | 325 | 305 | 320   | 305   | 290 | 265 | 295   | 305 | 310   | S     | 305   |  |  |
| 18      | 320   | 300   | 305   | A     | 315   | 325   | 355 | 390   | A     | 295 | A     | 315   | G     | G   | 340 | 305   | 305   | 280 | 330 | 300   | 300 | 310   | A     | 305   |  |  |
| 19      | 310   | 320   | 340   | 325   | 300   | 265   | 250 | 360   | 300   | 345 | 310   | G     | 350   | 305 | 300 | 325   | 300   | A   | 275 | A     | S   | S     | S     | 295   |  |  |
| 20      | J300S | 315   | U350S | 305   | 325   | 280   | 315 | 330   | 305   | A   | A     | 355   | 310   | 305 | 320 | 310   | 335   | 300 | 280 | 305   | S   | 305   | 310   | 320   |  |  |
| 21      | 330   | 340   | 355   | 335   | 315   | 275   | 305 | 330   | 355   | 370 | 300   | R     | G     | G   | G   | 300   | 335   | 320 | 300 | J315S | 300 | S     | A     | 320   |  |  |
| 22      | S     | J325S | 310   | A     | 310   | 310   | 350 | 330   | 300   | 300 | G     | 300   | 295   | G   | 355 | 330   | 315   | 350 | 300 | 290   | 295 | S     | U325S | 325   |  |  |
| 23      | 315   | 325   | 320   | 305   | U300S | 305   | 315 | 315   | 300   | G   | S     | S     | 325   | 355 | 355 | S     | 355   | 300 | 300 | A     | 300 | J310S | S     | 310   |  |  |
| 24      | 320   | 300   | 320   | 360   | 340   | J355R | 280 | G     | A     | A   | A     | R     | G     | R   | A   | 310   | R     | 325 | 305 | 295   | 290 | 315   | 300   | 310   |  |  |
| 25      | J300S | 320   | 310   | 325   | 340   | 340   | 300 | 340   | 380   | 355 | 320   | 300   | 350   | 350 | 300 | 305   | 320   | 295 | 300 | 300   | A   | S     | 300   | S     |  |  |
| 26      | 345   | 305   | 295   | 350   | 350   | 370   | 320 | 350   | 320   | 325 | 330   | G     | 305   | 295 | S   | 305   | 305   | 315 | S   | A     | S   | S     | J350S | S     |  |  |
| 27      | S     | S     | 345   | 300   | 365   | 325   | 280 | J255R | 230   | G   | R     | R     | R     | G   | G   | R     | J330S | 350 | 305 | 320   | 315 | 310   | 350   | 355   |  |  |
| 28      | 350   | S     | S     | 360   | 335   | 330   | A   | 295   | A     | A   | G     | G     | G     | G   | G   | G     | G     | 325 | 345 | 320   | 290 | 300   | 305   | 325   |  |  |
| 29      | 355   | S     | 350   | S     | S     | 265   | C   | 300   | 325   | 350 | G     | G     | 320   | 350 | 355 | 320   | 315   | 340 | 275 | 300   | A   | 300   | 300   | 350   |  |  |
| 30      | S     | S     | 335   | S     | S     | U355S | 330 | 315   | A     | G   | G     | 350   | 305   | G   | G   | 340   | 390   | 300 | 310 | S     | 305 | 340   | 360   | 355   |  |  |
| 31      | S     | 360   | 320   | 375   | 325   | 300   | G   | 325   | 350   | G   | 315   | G     | 350   | 360 | G   | 300   | 320   | 310 | 300 | S     | 310 | S     | 350   | J320S |  |  |
| Медиана | 320   | 325   | 330   | 335   | 335   | 310   | 315 | 330   | 320   | 335 | 315   | 320   | 320   | 330 | 330 | 320   | 320   | 315 | 300 | 300   | 300 | 310   | 320   | 320   |  |  |
| Учено   | 21    | 22    | 27    | 25    | 28    | 29    | 21  | 23    | 20    | 19  | 17    | 17    | 19    | 16  | 13  | 24    | 26    | 29  | 28  | 25    | 23  | 20    | 22    | 24    |  |  |