

foF2 МГц Май 1974г

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

МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

Академия Наук КазССР

(институт)

Станция

Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена

Милютцкой

Долгота

76°55'E

широта

43°15'N

поясное время

75°E

Кем подсчитана

Милютцкой

| 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       | U4.9F   | 4.6     | 4.0     | 3.3     | 3.0     | 3.9     | 5.3     | I5.7R   | I6.1R   | 6.6     | U6.6R   | I6.1R   | 6.4     | 6.4     | 6.3     | U6.4A   | 6.0     | 6.6     | U7.1R   | U6.9R   | U6.3S   | U6.0S   | U5.4S   | U4.7C   |  |  |
| 2       | 4.5     | 4.3     | 4.5     | 4.0     | 3.9     | 4.6     | 4.9     | I5.7R   | R       | U6.8R   | 7.7     | U8.3R   | U7.9R   | U7.4R   | U6.8R   | 6.6     | 6.4     | 6.9     | S       | U6.9S   | S       | S       | U5.5S   | 5.1     |  |  |
| 3       | 4.9     | 5.0     | 4.7     | 4.3     | 3.7     | 3.8     | 4.6     | I6.1R   | U7.2R   | U8.5R   | U7.9R   | 9.0     | 8.5     | 8.4     | U8.2R   | 7.9     | U7.3R   | U8.3R   | U8.5R   | U8.2R   | U7.5S   | U6.0S   | U5.8C   | U5.3S   |  |  |
| 4       | U5.0S   | 5.0     | 4.6     | 4.1     | 4.2     | 5.1     | I6.4R   | U7.2S   | 6.6     | 6.6     | 6.7     | 7.5     | 7.7     | 6.8     | U7.2S   | 6.8     | U7.2S   | 7.6     | U7.0S   | U7.4S   | S       | S       | U5.6S   | 5.3     |  |  |
| 5       | 5.0     | U5.2S   | 5.2     | 4.2     | 4.2     | 4.7     | 6.0     | U6.5S   | U7.9S   | U8.2S   | 8.1     | 8.0     | 8.1     | 8.9     | 8.9     | U7.2S   | 7.4     | 8.0     | U7.9S   | U8.5R   | U7.0S   | 5.6     | 5.0     | U4.3S   |  |  |
| 6       | 4.4     | 4.4     | 4.2     | 3.8     | 3.9     | 4.6     | 5.4     | 6.4     | 6.4     | 6.6     | 7.4     | 8.0     | 7.5     | 7.6     | U7.7S   | 7.3     | 7.3     | 7.4     | U7.9S   | U8.2R   | U7.6S   | I7.0C   | U6.6S   | U6.6S   |  |  |
| 7       | 5.7     | U5.4S   | U5.3S   | U5.2S   | 5.0     | 5.3     | 6.0     | U6.9S   | U8.3S   | 8.2     | 8.0     | 8.3     | 8.9     | 9.0     | 8.7     | 8.5     | U7.6R   | 7.0     | U6.8S   | 6.9     | A       | U5.3S   | A       | F       |  |  |
| 8       | U5.8S   | U5.4S   | U5.3S   | U5.2S   | 5.0     | 5.3     | 5.4     | 5.2     | 6.5     | 7.3     | 7.1     | 7.8     | 8.1     | 8.4     | 8.4     | 7.8     | 7.3     | U7.1S   | U7.8S   | 8.2     | U7.4C   | U5.4S   | U4.7S   | S       |  |  |
| 9       | U4.7S   | U4.8S   | U4.9F   | U4.9F   | U4.7S   | 5.3     | 4.9     | 6.4     | 6.9     | U6.8R   | U6.9R   | 7.7     | 8.4     | 8.5     | 8.5     | 8.0     | 8.0     | 7.4     | U7.6S   | U7.2S   | U6.2S   | S       | S       | U6.0S   |  |  |
| 10      | U5.8S   | 5.4     | U5.2S   | U5.1S   | 5.0     | 5.4     | 6.1     | U7.4S   | U7.7S   | 8.4     | 9.1     | I8.5R   | I8.0A   | 8.3     | 8.4     | 8.2     | 7.9     | 8.2     | U7.1S   | U6.9S   | U5.9S   | U5.7S   | U5.6S   | U5.5S   |  |  |
| 11      | U5.2S   | U5.2S   | 5.0     | U5.0S   | 4.7     | 5.2     | 6.1     | 6.8     | 8.2     | 8.4     | 9.1     | U9.6S   | U9.2S   | 8.4     | 8.2     | 8.0     | 7.7     | 7.2     | U7.0S   | U7.7S   | U7.7S   | U6.9S   | U6.3R   | U6.4S   |  |  |
| 12      | S       | S       | U5.5S   | 5.0     | 4.7     | 5.3     | U6.3S   | 6.9     | 7.3     | 8.6     | 9.1     | 8.5     | 8.5     | 8.3     | 8.0     | 8.2     | 8.8     | 8.2     | 8.0     | U7.3S   | I7.2S   | I6.2S   | S       | S       |  |  |
| 13      | U5.3S   | U5.1S   | 4.9     | 4.9     | U4.9S   | U5.4S   | U7.0S   | 8.1     | U8.2S   | 7.9     | 7.6     | 7.8     | U7.9S   | U7.9S   | U7.8S   | 7.6     | U7.2S   | 7.4     | I7.6A   | U7.7S   | S       | A       | S       | A       |  |  |
| 14      | U5.1S   | 4.8     | 4.8     | 4.9F    | U4.8F   | 5.7     | U6.5R   | 6.9     | I7.5R   | U7.4R   | U7.7R   | I7.7R   | U8.0R   | I7.7R   | 7.0     | 6.5     | 6.0     | U6.7S   | U7.9S   | 8.5     | I7.9R   | 6.8     | U6.1S   | 5.5     |  |  |
| 15      | 4.7     | 4.3     | 3.8     | 3.7F    | 3.5F    | 4.0     | 5.7     | U7.3R   | U7.2R   | 6.9     | U6.6R   | 7.3     | U8.2R   | 8.0     | R       | U8.2R   | U7.1R   | U7.9R   | U8.3R   | 5.9     | R       | R       | S       | U5.4S   |  |  |
| 16      | C       | 4.4     | 3.0     | 3.2     | 3.8     | 4.1     | 4.8     | U5.2R   | U5.4R   | U5.7R   | U6.2R   | 6.5     | U7.4R   | 6.7     | 6.4     | U7.4R   | U7.7R   | U7.7R   | 6.0     | R       | R       | R       | R       | U5.6S   |  |  |
| 17      | U4.5F   | U4.6F   | F       | U4.6F   | 4.6F    | 4.8     | 5.6     | U6.3S   | U5.3R   | U5.4R   | U6.0R   | U5.4R   | U6.7R   | U8.3S   | 6.7     | U6.5S   | U5.7S   | U6.3S   | I6.8S   | U5.9S   | U6.6S   | U5.5S   | U4.7S   | U3.7S   |  |  |
| 18      | I3.4A   | U3.4F   | U3.7F   | U3.4F   | 3.4     | U4.0S   | 4.5     | U4.7S   | U5.3S   | R       | R       | R       | U6.4R   | U6.7R   | C       | C       | U6.1S   | U5.3S   | 5.8     | 6.6     | A       | U5.1S   | A       | U5.0S   |  |  |
| 19      | 4.8     | A       | A       | A       | 3.1F    | 3.6     | U5.1S   | 5.1     | I5.4A   | 5.6     | U6.6R   | 5.8     | I6.1R   | 5.9     | A       | U6.3S   | 5.4     | 5.4     | A       | U5.4S   | A       | U5.0S   | U4.8F   | U4.6F   |  |  |
| 20      | A       | U4.0F   | U3.7F   | U3.5F   | U3.1R   | 3.3     | I4.2A   | 5.0     | 5.6     | C       | C       | C       | C       | C       | C       | C       | C       | 6.6     | 5.9     | 6.0     | S       | U5.2S   | U5.2S   | 4.7     |  |  |
| 21      | U4.6S   | 4.5     | 4.1     | 4.0M    | 3.4     | 4.7     | U5.7S   | 4.8     | I5.4A   | I5.9A   | 6.2     | U6.6S   | S       | U7.0S   | 6.7     | U6.4S   | U5.7S   | U6.0S   | U5.9S   | U5.1S   | 5.8     | U5.6S   | U5.0S   | 4.6     |  |  |
| 22      | 4.5     | 4.0     | 3.9     | 3.6     | 3.5     | 3.8     | 5.0     | U5.4S   | 6.5     | 7.7     | 7.3     | 6.3     | U6.0R   | I6.6R   | 6.6     | 5.7     | U5.7S   | U5.4S   | 4.8     | 4.9     | U5.9S   | U5.7S   | U5.4S   | 4.8     |  |  |
| 23      | 4.4     | 3.7     | 3.4     | U3.1S   | 3.0     | 4.5     | U5.9R   | I5.8C   | 5.4     | 5.7     | 7.3     | U8.0R   | U7.4S   | 6.8     | 6.4     | 6.5     | U6.1S   | 5.4     | 5.1     | U5.1S   | U5.2S   | U5.5S   | U5.2S   | U5.1S   |  |  |
| 24      | 4.9     | 4.0     | 4.0     | 3.6     | 3.5     | 4.0     | 4.3     | I4.4A   | 5.0     | R       | S       | S       | U6.2S   | U6.3S   | 6.4     | 7.4     | 7.2     | A       | A       | U5.4S   | I5.7S   | U5.4S   | I5.2A   | U5.2S   |  |  |
| 25      | 4.4     | U3.5S   | I2.8A   | U2.6M   | U2.8S   | 3.4     | I3.9A   | U4.3R   | U5.2R   | E4.7G   | 4.6     | 4.7     | U5.9S   | I6.1A   | 5.5     | U5.0R   | 4.8     | I5.0A   | 5.3     | I5.8A   | 5.3     | 5.5     | U5.0S   | A       |  |  |
| 26      | 4.0     | U4.1S   | 4.1F    | 3.6     | 3.5     | 3.8     | 4.6     | U5.3S   | 5.3     | A       | A       | 6.4     | 6.5     | I6.5A   | 6.6     | I6.7A   | 6.0     | I6.2A   | A       | A       | U6.1S   | U6.0S   | F       | S       |  |  |
| 27      | U5.9S   | 4.9     | U4.7F   | 4.3F    | U3.8F   | 4.0     | 5.2     | 5.4     | 5.4     | I5.6A   | U6.3R   | 7.0     | 8.4     | U6.6R   | U6.4S   | A       | A       | U5.9S   | U6.1S   | U5.9S   | U6.2S   | 6.1     | 5.5     | U5.3S   |  |  |
| 28      | U5.0S   | U4.7S   | 4.3     | 4.2     | 4.1     | 4.9     | 6.5     | 5.9     | 6.7     | 6.0     | 5.8     | U6.2S   | U6.3S   | 5.9     | U7.6S   | 8.7     | 9.0     | 8.0     | 6.9     | I6.3A   | 5.8     | A       | S       | U5.0S   |  |  |
| 29      | F       | I4.8S   | U4.8S   | U4.6F   | U4.3F   | 4.3     | 5.0     | A       | A       | 6.1     | 5.5     | U6.1S   | 5.7     | 6.0     | 5.8     | 5.5     | 5.6     | U6.0S   | 6.9     | 6.7     | 6.9     | 5.9     | 5.4     | 5.4     |  |  |
| 30      | 5.1     | 5.0     | 4.5     | 4.4     | 4.3     | 4.5     | U4.7R   | 5.4     | 5.8     | I5.6A   | A       | A       | 5.4     | 5.5     | 5.4     | U5.3S   | A       | A       | S       | A       | A       | A       | 5.0     | U4.6S   |  |  |
| 31      | 4.5     | 4.8     | U4.4S   | 4.1     | 4.0N    | 4.1     | 5.0     | I5.4A   | A       | U6.1S   | 6.5     | U5.9S   | U6.5S   | 6.5     | U7.3S   | I6.8C   | I6.9C   | 6.6     | 6.3     | U6.7S   | 5.7     | 5.7     | U5.3S   | U5.3S   |  |  |
| Медиана | 0.6     | 0.8     | 0.9     | 1.3     | 1.2     | 1.2     | 1.2     | 1.6     | 1.8     | 2.2     | 1.4     | 1.8     | 1.8     | 1.8     | 1.8     | 1.6     | 1.5     | 1.6     | 1.8     | 1.7     | 1.5     | 0.6     | 0.6     | 0.7     |  |  |
| Учено   | 4.9     | 4.7     | 4.5     | 4.2     | 3.9     | 4.5     | 5.3     | 5.8     | 6.4     | 6.6     | 7.0     | 7.5     | 7.5     | 6.9     | 7.0     | 7.0     | 7.2     | 6.9     | U7.0S   | U6.8S   | U6.2S   | U5.7S   | U5.4S   | U5.2S   |  |  |
|         | 27      | 29      | 29      | 30      | 31      | 31      | 31      | 30      | 28      | 27      | 26      | 27      | 29      | 30      | 27      | 28      | 28      | 29      | 26      | 28      | 21      | 23      | 22      | 25      |  |  |
|         | 4.5/5.1 | 4.2/5.0 | 4.0/4.9 | 3.6/4.9 | 3.5/4.7 | 4.0/5.2 | 4.8/6.0 | 5.2/6.8 | 5.4/7.2 | 5.7/7.9 | 6.3/7.7 | 6.2/8.0 | 6.4/8.2 | 6.5/8.3 | 6.4/8.2 | 6.4/8.0 | 6.0/7.5 | 6.0/7.6 | 6.0/7.8 | 5.9/7.6 | 5.8/7.3 | 5.4/6.0 | 5.0/5.6 | 4.7/5.4 |  |  |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек мин.

Станция автоматическая  
(ручная, автоматическая)

foF1 МГц Маи 1974г  
(характеристика) (единицы) (месяц) (год)

МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

Академия Наук КазССР  
(институт)

Станция АДМА-АТА  
Долгота 76°55'E широта 43°15'N

ИОНОСФЕРНЫЕ ДАННЫЕ  
поясное время 75°E

Кем составлена Милютинной  
Кем подсчитана Милютинной

| 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     | U4.0L | U4.5L | 4.5   | 4.4   | U4.9L | 4.6   | U4.7L | 4.5   | U4.4L | U4.2L | A     |       |       |    |    |    |    |  |  |
| 2       |    |    |    |    |    |    | L     | L     | L     | 4.5   | 4.6   | 4.7   | 4.6   | U4.6L | U4.7L | U4.5L | L     | U4.0L | L     |       |    |    |    |    |  |  |
| 3       |    |    |    |    |    |    | L     | U4.2L | 4.5   | 4.5   | 5.0H  | 4.7H  | 5.0   | U5.3L | 4.7   | U4.5L | L     | L     | L     |       |    |    |    |    |  |  |
| 4       |    |    |    |    |    |    | L     | U4.1L | L     | 4.6   | 4.8   | 4.8   | 4.9   | L     | 4.7   | 4.6   | U4.3L | L     | L     |       |    |    |    |    |  |  |
| 5       |    |    |    |    |    |    | L     | L     | 4.5   | 4.6   | 4.8   | L     | 4.8   | U4.8L | 4.7   | 4.5   | L     | L     |       |       |    |    |    |    |  |  |
| 6       |    |    |    |    |    |    |       | A     | A     | U4.6L | U4.8L | 4.9   | U4.8L | 5.0   | 4.9   | L     | L     | L     | L     |       |    |    |    |    |  |  |
| 7       |    |    |    |    |    |    |       | L     | 4.5   | 4.7   | 4.9   | I5.1A | 5.0   | 4.9   | A     | A     | A     | A     |       |       |    |    |    |    |  |  |
| 8       |    |    |    |    |    |    | L     |       | U4.5L | 4.6   | 4.8   | U4.9L | 5.0   | 4.8   | 4.9   | 4.7   | L     | L     |       |       |    |    |    |    |  |  |
| 9       |    |    |    |    |    |    |       | 4.3   | 4.4   | 4.6   | L     | 4.9   | 4.9   | 4.7   | 4.6   | 4.6   | 4.3   | L     | L     |       |    |    |    |    |  |  |
| 10      |    |    |    |    |    |    |       | A     | A     | A     | A     | R     | A     | 5.0   | I4.8A | I4.6A | U4.4L | L     | L     |       |    |    |    |    |  |  |
| 11      |    |    |    |    |    |    |       | L     | L     | I4.7A | I4.9A | 4.9   | 4.9   | 5.0   | A     | A     | A     | A     | A     |       |    |    |    |    |  |  |
| 12      |    |    |    |    |    |    | L     | L     | L     | 4.6   | U5.0L | L     | 4.9   | 5.0   | 4.8   | L     | L     | 4.0   | A     |       |    |    |    |    |  |  |
| 13      |    |    |    |    |    |    |       | L     | 4.4   | 4.6   | A     | A     | A     | 4.8   | U4.9L | 4.5   | 4.2   | 3.9   |       |       |    |    |    |    |  |  |
| 14      |    |    |    |    |    |    |       | I4.3A | U4.4L | 4.6   | 4.7   | U4.7L | I4.7A | I4.6A | 4.6   | L     | L     | U4.0L | U3.5L |       |    |    |    |    |  |  |
| 15      |    |    |    |    |    |    | U3.1L | 3.6   | U4.1L | U4.4L | 4.5   | U4.5L | 4.7   | U4.7R | 4.6H  | 4.5   | 4.3   | U4.2L | L     |       |    |    |    |    |  |  |
| 16      |    |    |    |    |    |    | U3.0L | 3.5   | 4.0   | 4.2   | I4.4A | 4.4   | 4.5   | 4.5   | 4.5   | 4.4   | U4.2L | U3.7L |       |       |    |    |    |    |  |  |
| 17      |    |    |    |    |    |    |       | 3.7   | 3.9   | L     | L     | 4.4   | L     | I4.5R | 4.5   | 4.4   | U4.2L | L     | A     |       |    |    |    |    |  |  |
| 18      |    |    |    |    |    |    | L     | A     | S     | A     | 4.4   | 4.5   | I4.6R | 4.5   | U4.5R | C     | C     | L     | L     | L     |    |    |    |    |  |  |
| 19      |    |    |    |    |    |    |       | U3.6L | A     | A     | A     | R     | U4.5R | 4.4   | A     | A     | 4.2   | L     | L     | A     |    |    |    |    |  |  |
| 20      |    |    |    |    |    |    |       | A     | A     | C     | C     | C     | C     | C     | C     | C     | C     | C     | L     |       |    |    |    |    |  |  |
| 21      |    |    |    |    |    |    | L     | A     | A     | A     | 4.4   | 4.5   | U4.4S | 4.4   | 4.4   | 4.3   | L     | L     | L     |       |    |    |    |    |  |  |
| 22      |    |    |    |    |    |    |       | A     | 4.0   | 4.0   | 4.1   | 4.2   | 4.4   | 4.4   | 4.4   | L     | L     | L     |       | L     |    |    |    |    |  |  |
| 23      |    |    |    |    |    |    | L     | A     | A     | L     | R     | A     | 4.4   | 4.4   | 4.4   | 4.5   | 4.1   | 3.9   | L     | L     |    |    |    |    |  |  |
| 24      |    |    |    |    |    |    | L     | A     | A     | 4.0   | 4.2   | I4.4R | 4.4   | U4.4R | I4.4A | I4.4A | 4.3   | I4.0A | A     | A     |    |    |    |    |  |  |
| 25      |    |    |    |    |    |    | L     | A     | 3.8   | A     | 4.7   | 4.3   | 4.3   | 4.3   | I4.3A | 4.3   | L     | L     | A     |       |    |    |    |    |  |  |
| 26      |    |    |    |    |    |    |       | 3.7   | 3.9   | A     | A     | A     | R     | A     | A     | I4.3A | 4.1   | A     |       |       |    |    |    |    |  |  |
| 27      |    |    |    |    |    |    | L     | L     | A     | A     | A     | 4.4   | 4.6   | I4.5A | 4.5   | A     | A     | A     | L     |       |    |    |    |    |  |  |
| 28      |    |    |    |    |    |    | L     | U3.8L | A     | A     | 4.5   | 4.6   | 4.6   | 4.5   | U4.8S | 4.4   | 4.5   | I4.1A | L     |       |    |    |    |    |  |  |
| 29      |    |    |    |    |    |    |       | 3.7   | I4.0A | I4.2A | 4.5   | U4.6L | 4.6   | 4.5   | 4.6   | A     | A     | A     | A     |       |    |    |    |    |  |  |
| 30      |    |    |    |    |    |    | L     |       | 4.0   | 4.3   | A     | A     | A     | A     | U4.5R | I4.5R | I4.4R | A     | A     |       |    |    |    |    |  |  |
| 31      |    |    |    |    |    |    |       | 3.7   | A     | A     | A     | 4.6   | 4.7   | 4.7   | 4.7   | 4.5   | C     | C     | A     |       |    |    |    |    |  |  |
| Медиана |    |    |    |    |    |    | U3.0L | 3.7   | 4.0   | 4.4   | 4.6   | 4.6   | 4.7   | 4.6   | 4.6   | 4.5   | 4.4   | 4.2   | U4.0L | U3.5L |    |    |    |    |  |  |
| Учтено  |    |    |    |    |    |    | 2     | 8     | 13    | 14    | 21    | 23    | 23    | 26    | 27    | 23    | 19    | 11    | 5     | 1     |    |    |    |    |  |  |

Пробег частоты от 1.0 МГц до 18.0 МГц 20сек

Станция автоматическая  
(ручная, автоматическая)

foE МГц Маг 1974г

Академия Наук КазССР  
(институт)

Станция Алма-Ата

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Милютинной

Долгота 76°55'E широта 43°15'N

поясное время 75°E

Кем подсчитана Милютинной

| 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       |    |        |    |    |        | E1.80C | U2.15A | U2.65A | U3.00A | U3.20A | U3.40A | A      | U3.45A | A      | A      | U3.25A | U3.15A | 2.50   | U1.90A | A  | A  |    |    |    |
| 2       |    |        |    |    |        | U1.40A | U2.25A | U2.70A | U3.10A | A      | 3.50   | I3.50A | I3.50R | 3.50   | I3.40R | U3.25R | U3.05R | U2.60A | A      | A  | E  |    |    |    |
| 3       |    |        |    |    | E      | A      | U2.30A | U2.70A | U3.05A | A      | A      | A      | R      | A      | 3.45   | U3.40R | 3.00   | U2.55A | 2.10   | A  |    |    |    |    |
| 4       |    |        |    |    |        | E      | U2.25A | U2.65A | A      | A      | A      | A      | A      | A      | R      | U3.30R | U2.95R | A      | A      | A  | A  |    |    |    |
| 5       |    |        |    |    | E      | A      | A      | U2.70A | U3.05A | A      | U3.40A | A      | A      | A      | A      | A      | A      | U2.60A | A      | A  |    |    |    |    |
| 6       |    |        |    |    |        | A      | U2.40A | U2.70A | A      | A      | A      | A      | A      | A      | R      | A      | U3.05R | A      | A      | A  | A  |    |    |    |
| 7       |    |        |    |    | E      | E1.70B | A      | U2.70A | A      | A      | U3.40A | A      | A      | A      | A      | A      | U3.10A | U2.65A | U2.10A | A  | A  |    |    |    |
| 8       |    | E1.50B |    |    | A      | A      | A      | U2.90A | U3.15A | A      | A      | A      | A      | A      | I3.60A | 3.30   | 3.10   | A      | A      | A  |    |    |    |    |
| 9       |    |        |    |    | E      | E1.50B | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A  | A  |    |    |    |
| 10      |    |        |    |    |        | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | 2.70   | 2.30   | A  | A  |    |    |    |
| 11      |    |        |    |    |        | A      | A      | U2.80A | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A      | A  | A  |    |    |    |
| 12      |    |        |    |    |        | A      | U2.30A | U2.80A | 3.10   | I3.45A | A      | U3.50A | A      | A      | A      | 3.30   | U2.95A | 2.70   | 2.10   | A  | A  |    |    |    |
| 13      |    |        |    |    |        | A      | U2.40A | U2.75A | A      | A      | A      | A      | A      | A      | R      | A      | A      | U2.50A | A      | A  | A  |    |    |    |
| 14      |    |        |    |    | E      | U1.65A | U2.20A | U2.65A | U2.95A | A      | A      | A      | A      | U3.45A | 3.45   | 3.40   | U3.05A | 2.55   | U2.10A | A  | A  |    |    |    |
| 15      |    |        |    |    |        | U1.50A | U2.30A | U2.70A | U3.10A | A      | A      | A      | A      | A      | A      | R      | A      | A      | U2.00A | A  | A  |    |    |    |
| 16      |    |        |    |    | A      | 1.80   | 2.25   | I2.70A | 2.95   | A      | A      | A      | I3.45R | R      | R      | U3.15R | 2.95   | U2.60A | 2.05   | A  |    |    |    |    |
| 17      |    |        |    |    | E      | E      | U2.40A | A      | A      | A      | A      | A      | A      | R      | U3.30A | A      | U2.70A | A      | A      | A  |    |    |    |    |
| 18      |    |        |    |    | E1.50B | A      | A      | A      | A      | A      | A      | A      | A      | A      | C      | C      | A      | A      | A      | A  |    |    |    |    |
| 19      |    |        |    |    | A      | A      | U2.40A | U2.60A | A      | A      | A      | A      | A      | A      | A      | A      | A      | U2.50A | A      | A  |    |    |    |    |
| 20      |    |        |    |    |        | A      | A      | A      | E3.00C | C      | C      | C      | C      | C      | C      | C      | C      | A      | A      | A  |    |    |    |    |
| 21      |    |        |    |    |        | 1.50   | A      | U2.60A | A      | A      | A      | A      | A      | A      | A      | U3.10R | U2.70R | 2.40   | A      | A  | A  |    |    |    |
| 22      |    |        |    |    | E      | A      | U2.20A | A      | A      | A      | A      | A      | A      | U3.50R | A      | A      | R      | A      | A      | A  |    |    |    |    |
| 23      |    |        |    |    | E      | E      | A      | A      | A      | U3.10A | A      | A      | A      | U3.35R | A      | A      | U2.80R | 2.35   | 1.90   | A  | A  |    |    |    |
| 24      |    |        |    |    | E2.00B | E1.50B | A      | A      | A      | A      | A      | U3.40A | A      | A      | A      | U3.10A | U2.80A | U2.40A | U2.00A | A  | A  |    |    |    |
| 25      |    |        |    |    | A      | A      | U2.30A | U2.60A | U2.80A | A      | A      | U3.30R | A      | A      | A      | U3.00A | A      | A      | U2.00A | A  | A  |    |    |    |
| 26      |    |        |    |    |        | A      | A      | U2.60A | A      | A      | A      | A      | A      | A      | A      | A      | U2.90A | A      | U2.10A | A  | A  |    |    |    |
| 27      |    |        |    |    | E      | A      | U2.40A | U2.70A | A      | A      | A      | A      | A      | U3.40A | A      | A      | A      | A      | A      | A  |    |    |    |    |
| 28      |    |        |    |    | A      | A      | A      | U2.70A | A      | U3.30A | A      | U3.40A | A      | U3.50A | A      | A      | A      | A      | U2.20A | A  | A  |    |    |    |
| 29      |    |        |    |    | A      | A      | A      | U2.70A | U3.00A | A      | A      | A      | A      | A      | U3.40A | U3.30A | U2.95A | U2.60A | A      | A  | A  |    |    |    |
| 30      |    |        |    |    | A      | A      | U2.40A | U2.70A | A      | A      | A      | A      | U3.50A | U3.60A | U3.50A | A      | U3.10A | U2.70A | A      | A  |    |    |    |    |
| 31      |    |        |    |    |        | A      | U2.00A | U2.45A | U2.80A | U3.15A | A      | A      | A      | A      | R      | C      | C      | U2.70A | U2.30A | A  | A  |    |    |    |
| Медиана |    | E1.50B |    |    | E      | U1.45  | U2.30A | U2.70A | U3.05A | U3.25A | U3.40A | U3.40A | U3.50A | U3.50A | U3.45A | U3.30A | U2.95A | U2.60A | U2.10A |    | E  |    |    |    |
| Учено   |    | 1      |    |    | 11     | 13     | 17     | 23     | 13     | 4      | 4      | 5      | 4      | 7      | 7      | 12     | 17     | 17     | 14     |    | 1  |    |    |    |

Пробег частоты от 1.0 МГц до 18.0 МГц 20сек мин

Станция автоматическая  
(ручная, автоматическая)

foEs МГц Май 1974г.

Академия Наук КазССР

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

(институт)

Станция Алма-Ата

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена МилютиннойДолгота 76°55'E широта 43°15'Nпоясное время 75°EКем подсчитана Милютинной

| 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       | J3.0X | E     | 1.6   | 1.5   | J2.5X | E1.8C | 2.4   | 2.9   | J4.2X | 4.0   | 4.2   | J4.0X | 3.6    | 3.5   | 3.7    | 3.6   | H.3   | J5.4X | J4.3X  | J4.3X | J5.3X | J4.0X | J3.1X | 2.2   |
| 2       | J3.3X | 2.5   | 1.8   | E     | E     | 1.6   | 2.4   | 3.5   | 3.7   | J4.3X | 3.7   | 3.6   | G      | G     | G      | G     | G     | 3.1   | 2.8    | 1.8   | G     | 1.5   | 1.4   | 2.5   |
| 3       | J2.3X | E     | E     | E     | G     | 1.7   | 3.3   | 3.9   | 3.8   | J3.5X | J4.2X | 3.7   | G      | J4.0X | 3.3G   | G     | G     | 2.9   | 2.2    | 2.2   | J2.6X | J2.7X | 3.5   | J2.3X |
| 4       | J2.3X | 1.5   | E     | 2.0   | E1.5B | G     | 2.6   | 3.0   | 4.0   | 3.6   | 3.6   | 3.7   | J4.3X  | 3.5   | 2.6G   | 2.4G  | 2.1G  | 3.1   | 2.8    | J2.9X | J3.4X | J5.3X | J3.3X | J2.0X |
| 5       | J3.3X | J2.4X | J2.0X | J2.3X | G     | 2.0H  | 3.0   | J4.0X | J4.6X | 4.0   | 4.0   | 3.9   | 4.2    | J4.3X | J4.2X  | J4.1X | 3.3   | 3.6   | J4.1X  | J6.1X | J4.5X | J4.3X | J1.9X | J3.3X |
| 6       | J1.9X | E     | E     | E     | E1.5B | 3.2   | J4.0X | J5.5X | J5.0X | 4.0   | J4.4X | 3.8   | 3.8    | 3.9   | 3.0G   | 3.5   | 2.6G  | 3.1   | 3.0    | J2.9X | J3.4X | J3.7X | J3.3X | J4.0X |
| 7       | 1.8   | 1.5   | D1.3R | E     | G     | E1.7B | 2.2   | 4.0   | 4.1   | 4.1   | 4.4   | 5.3   | J4.4X  | 4.1   | J6.5X  | J9.0X | J6.4X | J5.2X | J4.6X  | J5.0X | 6.0   | J5.8X | J6.3X | J4.3X |
| 8       | E1.5B | E1.5B | J2.8X | J2.3X | J2.3X | 2.0   | D2.3R | 3.5   | 4.3   | 4.5   | J4.5X | J5.9X | J4.8X  | J4.4X | 4.0    | 3.5   | G     | 3.0   | J3.5X  | J5.3X | J5.0X | J5.2X | J2.5X | J4.6X |
| 9       | J2.4X | E     | J2.9X | J2.0X | G     | E1.5B | 3.0   | J4.1X | J5.3X | J4.3X | J4.3X | 4.4   | J4.5X  | 4.4   | 4.4    | J4.0X | J3.3X | J3.2X | J2.7X  | J3.9X | J4.1X | J6.3X | J4.8X | J5.0X |
| 10      | E     | J2.3X | E1.5B | J5.1X | J4.3X | J3.1X | 2.8H  | J5.7X | J6.0X | J6.3X | 8.5   | J7.4X | J10.3X | J5.9X | J6.3X  | J5.8X | 4.0   | G     | G      | 2.0   | J3.9X | J2.6X | J2.3X | 2.0   |
| 11      | J5.3X | J5.4X | J2.9X | J4.3X | J3.3X | 2.0   | 2.7   | 4.0   | 4.0   | 5.5   | J6.3X | J3.3X | J4.4X  | 5.3   | 6.0    | 6.1   | J6.3X | J6.0X | J4.7X  | J2.9X | J2.5X | J3.0X | J3.7X | J2.9X |
| 12      | E     | E1.5B | E     | E     | E     | D2.0R | 2.6   | 3.2   | 3.5   | 3.8   | 3.8   | 4.0   | 4.0    | 3.8   | 3.6    | G     | 3.3   | 3.5   | J4.3X  | J4.1X | J4.3X | J3.7X | J4.3X | J2.8X |
| 13      | J3.5X | J5.3X | J3.0X | 1.7   | J2.7X | J4.5X | J6.1X | J5.8X | J4.2X | J4.7X | J6.4X | J5.7X | J7.3X  | 5.0   | G      | 3.4   | 4.0   | 8.3   | J13.5X | 4.2   | J2.7X | J5.7X | J4.3X | 5.0   |
| 14      | J3.3X | J2.3X | J2.3X | E1.5B | G     | J3.7X | 5.7   | J6.0X | 3.6   | 4.0   | 3.5   | J4.3X | 5.5    | 5.9   | G      | 3.1G  | 3.2   | 3.0   | 2.8    | J2.7X | J2.4X | J2.4X | J2.8X | J3.7X |
| 15      | J3.4X | J2.5X | J3.8X | J3.3X | J2.3X | J3.3X | 3.4   | 3.3   | 3.6   | 4.3   | 4.0   | 4.4   | J4.4X  | 3.6   | 3.4    | D3.1R | 3.0   | 3.0   | J4.7X  | 1.6   | 1.9   | J2.3X | E1.2B | E1.4B |
| 16      | E     | E     | E     | E1.2B | J2.1X | 1.9   | 2.6   | 3.5   | 3.6   | 4.8   | J4.2X | 3.5   | D3.4R  | G     | G      | G     | G     | 3.0   | 2.7    | J2.7X | J2.9X | 1.8   | J2.8X | E     |
| 17      | 1.6   | E     | E     | E     | G     | G     | 3.0   | 3.2   | J3.5X | 4.1   | 3.7   | 4.0   | 3.4    | D3.1R | 3.5    | 3.5   | 3.9   | J4.6X | J5.1X  | J3.8X | J4.3X | J2.3X | J2.1X | J2.3X |
| 18      | J4.3X | J3.0X | J2.1X | J2.1X | E1.5B | 2.5   | J6.3X | 3.3   | J6.3X | J4.8X | J5.3X | J4.4X | J4.5X  | J3.6X | C      | C     | 3.0   | 3.2   | 2.8    | J5.3X | J5.3X | J4.6X | J6.3X | J5.7X |
| 19      | J4.3X | J5.7X | J5.3X | J5.7X | J2.6X | 2.0   | 3.2   | J4.4X | J5.7X | J4.7X | J5.6X | J4.0X | 3.6    | 5.0   | J12.3X | J4.3X | 3.9   | 3.4   | J6.3X  | J5.3X | J8.3X | 3.8   | J4.1X | J4.9X |
| 20      | J5.0X | J3.1X | J3.7X | J2.0X | J3.5X | 2.4   | J5.5X | J5.6X | J4.5X | C     | C     | C     | C      | C     | C      | C     | C     | 3.5   | J4.3X  | J2.9X | J4.3X | J4.3X | J2.5X | 4.0   |
| 21      | 3.0   | 1.9   | E     | E1.5B | E     | G     | 2.5   | 4.1   | J7.5X | J6.5X | 3.5   | 3.4   | J4.0X  | J6.2X | J3.7X  | G     | G     | G     | 2.4    | D2.0R | J2.1X | J2.2X | J3.0X | J2.3X |
| 22      | J2.0X | 1.3   | E     | E     | G     | 2.0   | J3.7X | J4.5X | J5.0X | J5.8X | J4.3X | 3.6   | 3.6    | G     | 3.2    | J3.3X | 2.5G  | 2.6   | J3.0X  | 2.0   | J2.8X | J2.7X | J2.6X | 1.6   |
| 23      | E1.5B | J3.3X | 1.2   | E     | G     | G     | J4.1X | J4.3X | J4.3X | J4.3X | J4.4X | J4.2X | 3.6    | G     | J3.5X  | 3.1   | G     | G     | 2.5    | 2.4   | J3.3X | J4.3X | J3.0X | J3.3X |
| 24      | 3.0   | E1.5B | E1.7B | J2.8X | E2.0B | E1.5B | J3.5X | J5.0X | J4.8X | 3.5   | 4.0   | 3.6   | 3.6    | J5.6X | J5.6X  | 3.2   | J4.8X | J8.3X | J8.3X  | J3.3X | J3.1X | J3.7X | J6.3X | J5.0X |
| 25      | J2.3X | J2.9X | J4.0X | 2.0   | J1.7X | 2.0   | 4.8   | 3.4   | J5.1X | J5.2X | 3.6   | G     | 3.5    | 6.5H  | J3.7H  | 3.5   | 3.4   | J6.0X | J4.2X  | J7.0X | J6.0X | J4.5X | J6.3X | J5.8X |
| 26      | J4.3X | J3.3X | J3.3X | J5.9X | J4.3X | J3.3X | 3.1   | J3.6X | J5.5X | J6.4X | J7.3X | J7.3X | J4.2X  | 7.1   | J6.3X  | J8.4X | 3.8   | J6.5X | J6.3X  | J8.3X | J6.3X | J6.0X | J5.2X | J8.5X |
| 27      | J4.1X | J2.3X | J3.9X | J2.8X | G     | J1.8X | 3.0   | J4.1X | J4.7X | J5.6X | 4.1   | J4.3X | J7.0X  | J5.5X | J6.3X  | J6.4X | J6.6X | J4.4X | 2.6H   | J3.1X | J4.3X | J4.3X | J5.2X | J3.3X |
| 28      | J2.3X | J3.5X | J4.5X | J3.2X | J2.3X | J3.7X | 3.2   | J4.5X | J5.3X | J4.3X | J4.2X | 4.1   | J4.1X  | J4.6X | J5.0X  | J4.6X | J4.4X | 3.2   | 4.3    | J8.5X | J3.3X | J8.3X | J4.3X | J9.0X |
| 29      | J2.9X | J4.3X | J5.0X | E1.5B | J3.0X | J3.3X | J3.3X | 9.0   | J6.3X | 3.6   | J6.3X | 4.0   | 4.1    | 4.2   | 5.6    | J4.6X | J5.1X | J4.1X | J4.4X  | J3.3X | J4.0X | J2.3X | J2.9X | J3.6X |
| 30      | J4.2X | J2.7X | J2.2X | J2.3X | 1.5   | J4.7X | J3.7X | J4.3X | 3.5   | J7.2X | 6.5   | J7.3X | 5.5    | J4.6X | 4.1    | 3.6   | J6.5X | J7.8X | J4.7X  | J8.0X | J6.3X | J6.3X | J4.3X | J2.6X |
| 31      | 2.0   | J2.8X | J3.3X | J2.8X | J2.9X | 2.6   | J3.7X | 5.7   | 6.6   | J5.9X | 4.0   | 4.4   | 3.8    | 3.7   | D3.5R  | C     | C     | 4.0   | J3.8X  | J3.3X | J2.4X | E1.5B | 2.7Y  | J2.3X |
| Медиана | 1.6   | D1.6  | -     | -     | -     | 1.5   | 1.1   | 1.5   | 1.5   | 1.5   | 1.3   | 0.7   | 0.9    | 1.7   | 2.4    | 1.3   | 2.1   | 2.2   | 1.9    | 2.6   | 2.3   | 2.8   | 1.7   | 2.6   |
| Учено   | J2.9X | J2.3X | J2.1X | J2.0X | J1.5X | 2.0   | 3.2   | 4.1   | J4.5X | J4.3X | 4.2   | 4.0   | 4.1    | U4.3  | 3.7    | 3.5   | 3.3   | 3.4   | J4.1X  | J3.3X | J3.9X | J3.8X | J3.3X | J3.3X |
|         | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30     | 30    | 29     | 28    | 29    | 31    | 31     | 31    | 31    | 31    | 31    | 31    |
|         | 1.9   | E1.5  | E     | E     | G     | E1.7  | 2.6   | 3.5   | 3.8   | 4.0   | 4.0   | 3.7   | 3.6    | 3.6   | 3.2    | 3.1   | 2.3   | 3.0   | 2.8    | 2.7   | 2.7   | 2.4   | 2.6   | 2.3   |
|         | 3.5   | 3.1   | 3.3   | 2.8   | 2.6   | 3.2   | 3.7   | 5.0   | 5.3   | 5.5   | 5.3   | 4.4   | 4.5    | 5.3   | 5.6    | 4.4   | 4.4   | 5.2   | 4.7    | 5.3   | 5.0   | 5.2   | 4.3   | 4.9   |

Пробег частоты от 1.0 МГц до 18.0 МГц 20сек минСтанция автоматическая  
(ручная, автоматическая)

f6Es Мгц Май 1974г.

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

Станция

Алма-Ата

Долгота

76°55'E

широта

43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время

75°E

Академия Наук КазССР

(институт)

Кем составлена

Милютиной

Кем подсчитана

Милютиной

| 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       | 1.5   | E     | 1.6   | 1.5   | 2.3   | E1.8C | 2.4   | 2.9   | 4.0   | 3.6   | 3.9   | 4.0   | 3.6    | 3.4   | 3.5    | 3.4   | 4.0   | 5.0   | 4.2    | 4.0   | 4.8   | 2.4   | 1.4   | E1.5C |  |  |
| 2       | 2.0   | 2.0   | 1.5   | E     | E     | 1.6   | 2.4   | 3.4   | 3.6   | 4.0   | G     | 3.6   | G      | G     | G      | G     | G     | 3.0   | 2.8    | 1.8   | G     | 1.5   | 1.4   | 1.5   |  |  |
| 3       | 2.1   | E     | E     | E     | G     | 1.7   | 3.3   | 3.7   | 3.7   | 3.4   | 3.8   | 3.5   | G      | 3.6   | G      | G     | G     | 2.8   | 2.2    | 2.0   | 2.5   | 2.5   | 2.8   | 1.4   |  |  |
| 4       | 2.0   | 1.5   | E     | E1.5B | E1.5B | G     | 2.6   | 3.0   | 4.0   | 3.5   | 3.6   | 3.7   | 4.2    | 3.5   | G      | 2.4G  | 2.1G  | 3.0   | 2.8    | 2.8   | 3.4   | 2.9   | 2.9   | 1.9   |  |  |
| 5       | 2.5   | 2.0   | 1.5   | 1.6   | G     | 2.0   | 2.6   | 3.7   | 4.2   | 3.8   | 4.0   | 3.8   | 3.6    | 4.0   | 3.9    | 3.5   | 3.3   | 3.4   | 3.8    | 6.0   | 4.0   | 2.8   | 1.5   | 2.0   |  |  |
| 6       | 1.5   | E     | E     | E     | E1.5B | 2.7   | 3.5   | 4.3   | 5.0   | 3.9   | 4.3   | 3.7   | 3.8    | 3.7   | G      | 3.4   | G     | 3.0   | 3.0    | 2.8   | 3.4   | 3.0   | 3.0   | 2.9   |  |  |
| 7       | 1.8   | 1.5   | D1.3R | E     | G     | E1.7B | 2.2   | 4.0   | 4.0   | 3.7   | 4.4   | 5.2   | 4.0    | 3.9   | 6.2    | 4.7   | 6.2   | 5.0   | 4.6    | 5.0   | A6.0A | 4.4   | A6.3A | 2.0   |  |  |
| 8       | E1.5B | E1.5B | 2.4   | 2.0   | 2.0   | 2.0   | D2.3R | 3.5   | 4.0   | 4.2   | 3.9   | 4.6   | 4.6    | 4.3   | 3.7    | 3.4   | G     | 2.8   | 3.5    | 4.4   | 4.5   | 2.4   | 1.7   | 2.7   |  |  |
| 9       | 1.6   | E     | 2.2   | 1.6   | G     | E1.5B | 2.6   | 4.0   | 3.5   | 3.8   | 4.0   | 3.7   | 4.0    | 3.7   | 3.7    | 3.3   | 3.0   | 2.7   | 2.1    | 3.7   | 1.8   | 4.6   | 2.6   | 3.9   |  |  |
| 10      | E     | 1.6   | E1.5B | 3.7   | 3.7   | 2.9   | 2.8   | 5.7   | 6.0   | 6.0   | 8.0   | A7.4A | A10.3A | 4.3   | 5.6    | 5.7   | 3.9   | G     | G      | 1.4   | 3.7   | 2.5   | 1.9   | E     |  |  |
| 11      | 3.7   | 2.8   | 2.0   | 3.0   | 1.7   | 2.0   | 2.6   | 3.7   | 4.0   | 4.8   | 5.0   | 3.9   | 4.4    | 4.7   | 5.4    | 5.8   | 6.6   | 6.1   | 4.0    | 2.3   | 1.5   | 2.8   | 3.7   | 2.0   |  |  |
| 12      | E     | E1.5B | E     | E     | E     | D2.0R | 2.6   | 3.1   | 3.4   | 3.7   | 3.7   | 4.0   | 3.9    | 3.8   | 3.5    | G     | 3.1   | 3.2   | 4.0    | 3.9   | 4.2   | 2.8   | 3.8   | 2.2   |  |  |
| 13      | 2.4   | 3.7   | 2.3   | 1.6   | 2.3   | 4.7   | 6.1   | 4.0   | 3.6   | 3.7   | 5.0   | 5.0   | 6.2    | 4.4   | G      | 3.4   | 3.8   | 3.4   | A13.5A | 3.8   | 2.0   | A5.7A | 4.0   | A5.0A |  |  |
| 14      | 2.6   | 2.0   | 1.8   | E1.5B | G     | 3.6   | 4.3   | 4.6   | 3.3   | 3.7   | 3.5   | 3.9   | 5.5    | 5.3   | G      | G     | 3.2   | 3.0   | 2.6    | 2.6   | 2.2   | 2.0   | 2.6   | 2.8   |  |  |
| 15      | 3.2   | 1.7   | 3.0   | 1.8   | 1.8   | 2.9   | 3.4   | 3.2   | 3.4   | 4.0   | 4.0   | 3.9   | 4.3    | 3.6   | 3.4    | D3.1R | 3.0   | 3.0   | 4.7    | 1.6   | 1.7   | 1.8   | E1.2B | E1.4B |  |  |
| 16      | E     | E     | E     | E1.2B | 2.0   | 1.9   | G     | 3.1   | 3.5   | 4.6   | 4.0   | 3.5   | D3.4R  | G     | G      | G     | G     | 2.9   | 2.6    | 2.6   | 2.6   | 1.8   | 2.8   | E     |  |  |
| 17      | 1.6   | E     | E     | E     | G     | G     | 2.8   | 2.9   | 3.1   | 3.6   | 3.4   | 3.6   | 3.4    | D3.1R | 3.5    | 3.5   | 3.8   | 4.5   | 4.9    | 3.8   | 2.1   | 1.7   | 1.9   | 2.0   |  |  |
| 18      | A4.3A | 2.0   | 1.5   | 1.4   | E1.5B | 2.2   | 4.0   | 2.7   | 4.2   | 3.6   | 3.7   | 4.0   | 4.1    | 3.5   | C      | C     | 3.0   | 2.9   | 2.4    | 4.7   | A5.3A | 4.0   | A6.3A | 4.0   |  |  |
| 19      | 2.5   | A5.7A | A5.3A | A5.7A | 1.8   | 2.0   | 3.1   | 4.1   | A5.7A | 4.4   | 4.0   | 4.0   | 3.5    | 4.6   | A12.3A | 3.7   | 3.3   | 3.0   | A6.3A  | 4.9   | A8.3A | 3.7   | 1.5   | 3.4   |  |  |
| 20      | A5.0A | 1.9   | 1.7   | 1.5   | 2.5   | 2.2   | A5.5A | 4.1   | 4.0   | C     | C     | C     | C      | C     | C      | C     | C     | 2.9   | 4.0    | 2.6   | 2.6   | 4.4   | 1.8   | 4.0   |  |  |
| 21      | 2.7   | 1.5   | E     | E1.5B | E     | G     | 2.3   | 4.0   | A7.5A | A6.5A | 3.4   | 3.4   | 4.0    | 4.0   | 3.4    | G     | G     | G     | 2.4    | D2.0R | 2.0   | 1.9   | 3.0   | 2.0   |  |  |
| 22      | 1.9   | 1.3   | E     | E     | G     | 2.0   | 3.6   | 3.0   | 3.2   | 3.7   | 4.0   | 3.6   | 3.5    | G     | 3.2    | 3.1   | 2.1G  | 2.6   | 2.7    | 1.8   | 2.4   | 2.4   | 2.4   | 1.6   |  |  |
| 23      | E1.5B | 2.4   | 1.2   | E     | G     | G     | 3.8   | 4.1   | 4.0   | 3.8   | 4.3   | 3.6   | 3.5    | G     | 3.5    | 3.0   | G     | G     | 2.5    | 2.0   | 2.4   | 2.5   | E1.7B | 2.5   |  |  |
| 24      | E1.6B | E1.5B | E1.7B | 2.0   | E2.0B | E1.5B | 3.5   | A5.0A | 3.3   | 3.5   | 3.7   | 3.6   | 3.6    | 4.9   | 5.0    | 3.2   | 4.4   | A8.3A | A8.3A  | 2.8   | 3.1   | 3.2   | A6.3A | 1.6   |  |  |
| 25      | 1.8   | 1.6   | A4.0A | E     | 1.4   | 1.7   | A4.8A | 3.0   | 4.0   | 4.0   | 3.6   | G     | 3.4    | A6.5A | 3.7    | 3.2   | 3.1   | A6.0A | 4.0    | A7.0A | 2.7   | 2.9   | 4.0   | A5.8A |  |  |
| 26      | 2.0   | 3.0   | 2.3   | 3.2   | 1.8   | 2.9   | 2.8   | 3.6   | 5.0   | A6.4A | A7.3A | 6.1   | 3.7    | A7.1A | 6.0    | A8.4A | 3.7   | A6.5A | A6.3A  | A8.3A | 4.0   | 4.0   | 3.0   | 2.6   |  |  |
| 27      | 3.6   | 1.6   | 2.9   | 2.1   | G     | 1.8   | 2.7   | 4.0   | 4.7   | A5.6A | 3.8   | 3.7   | 5.5    | 4.0   | 4.5    | A6.4A | A6.6A | 4.1   | 2.6    | 2.8   | 4.0   | 2.0   | 3.5   | 2.3   |  |  |
| 28      | 1.7   | 2.5   | 2.7   | 1.7   | G     | 2.5   | 2.8   | 4.0   | 5.0   | 4.1   | 3.7   | 4.0   | 3.8    | 4.4   | 3.8    | 3.4   | 4.4   | 3.0   | 6.2    | A8.5A | 3.0   | A8.3A | 2.8   | 3.2   |  |  |
| 29      | 2.0   | 3.3   | 4.0   | E1.5B | 2.0   | 3.3   | 3.3   | A9.0A | A6.3A | 3.6   | 4.0   | 3.6   | 4.0    | 4.2   | 4.8    | 4.4   | 5.0   | 3.9   | 4.2    | 2.6   | 3.0   | 2.2   | 2.7   | 3.4   |  |  |
| 30      | 3.8   | 1.6   | 1.6   | 2.0   | 1.5   | 3.0   | 3.4   | 3.5   | 3.4   | A7.2A | A6.5A | A7.3A | 5.0    | 4.1   | 4.0    | 3.6   | A6.5A | A7.8A | 4.3    | A8.0A | A6.3A | A6.3A | 3.4   | 2.6   |  |  |
| 31      | 2.0   | 1.9   | 2.8   | 2.5   | 2.0   | 2.5   | 3.5   | A5.7A | A6.6A | 5.6   | 4.0   | 3.9   | 3.7    | 3.7   | D3.5R  | C     | C     | 4.0   | 3.7    | 2.7   | 1.6   | E1.5B | 1.5   | 1.4   |  |  |
| Медиана | 2.0   | 1.6   | 1.6   | 1.5   | E1.5B | 2.0   | 3.0   | 3.7   | 4.0   | 3.8   | 4.0   | 3.8   | 4.3    | 4.0   | 3.6    | 3.4   | 3.2   | 3.0   | 3.8    | 2.8   | 3.0   | 2.8   | 2.8   | 2.2   |  |  |
| Учено   | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30     | 30    | 29     | 28    | 29    | 31    | 31     | 31    | 31    | 31    | 31    | 31    |  |  |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин.

Станция автоматическая

(ручная, автоматическая)

f min МГц Май 1974г.

Академия Наук КазССР

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

Станция

Алма-Ата

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена

Милюттиной

Долгота

76°55'E

широта

43°15'N

поясное время

75°E

Кем подсчитана

Милюттиной

| 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 | E1.8C | 1.5 | 1.5 | 1.5   | 1.5 | 1.5   | 2.0 | 1.6 | 1.5 | 1.7 | 1.7 | 1.5 | 1.5 | 1.2 | 1.0 | 1.0   | 1.0 | 1.0 | E1.5C |
| 2       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.5 | 1.4 | 1.5   | 1.5 | 1.8   | 2.0 | 2.0 | 2.1 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 3       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.0 | 1.6 | 1.8   | 1.5 | 1.8   | 1.9 | 1.7 | 1.5 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 4       | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.0   | 1.3 | 1.7 | 1.5   | 1.6 | 1.6   | 1.8 | 2.2 | 2.0 | 1.7 | 1.8 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.5   |
| 5       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.3 | 1.5 | 1.5   | 1.8 | 2.3   | 1.7 | 2.3 | 1.8 | 1.6 | 1.8 | 1.6 | 1.5 | 1.3 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 6       | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.5   | 1.5 | 1.4 | 1.5   | 1.5 | 1.5   | 1.4 | 2.0 | 1.9 | 1.8 | 1.7 | 1.8 | 1.5 | 1.5 | 1.4 | 1.0   | 1.0 | 1.0 | 1.0   |
| 7       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7   | 1.4 | 1.5 | 1.4   | 1.8 | 2.0   | 2.0 | 2.0 | 2.0 | 1.9 | 2.0 | 1.7 | 1.5 | 1.4 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 8       | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0   | 1.6 | 1.4 | 1.5   | 1.6 | 1.5   | 1.8 | 1.8 | 1.5 | 1.7 | 1.6 | 1.4 | 1.4 | 1.4 | 1.3 | 1.0   | 1.0 | 1.0 | 1.0   |
| 9       | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5   | 1.6 | 1.6 | 1.3   | 1.4 | 1.8   | 1.7 | 1.5 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 | 1.0 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 10      | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.5   | 1.2 | 1.5 | 1.7   | 1.4 | 1.6   | 1.8 | 1.9 | 1.9 | 1.7 | 1.5 | 1.5 | 1.4 | 1.2 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 11      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.0 | 1.4 | 1.5   | 1.7 | 1.6   | 2.0 | 2.0 | 1.8 | 2.0 | 1.6 | 1.7 | 1.2 | 1.0 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 12      | 1.0 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0   | 1.0 | 1.6 | 1.4   | 1.5 | E2.8C | 2.0 | 2.0 | 2.0 | 1.8 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.0   | 1.7 | 1.5 | 1.4   |
| 13      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5   | 1.2 | 1.5 | 1.7   | 1.7 | 1.7   | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 1.8 | 1.8 | 1.0 | 1.7 | E1.3S | 1.3 | 1.0 | 1.0   |
| 14      | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 | 1.4   | 1.5 | 1.5 | 1.0   | 1.5 | 1.5   | 1.8 | 1.6 | 1.8 | 1.5 | 1.7 | 1.5 | 1.6 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 15      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.4 | 1.5 | 1.6   | 1.6 | 1.7   | 1.8 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 | 1.4 | 1.2 | 1.2 | 1.0   | 1.0 | 1.2 | 1.4   |
| 16      | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.1   | 1.0 | 1.5 | 1.4   | 1.7 | 1.5   | 1.6 | 1.8 | 2.0 | 1.6 | 1.5 | 1.4 | 1.4 | 1.2 | 1.4 | 1.0   | 1.0 | 1.0 | 1.0   |
| 17      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.4 | 1.4 | 1.2   | 1.5 | 1.7   | 1.5 | 1.5 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 18      | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.4   | 1.5 | 1.5 | 1.4   | 1.8 | 1.7   | 1.7 | 1.8 | 1.8 | C   | C   | 1.5 | 1.8 | 1.5 | 1.2 | 1.0   | 1.0 | 1.0 | 1.0   |
| 19      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2   | 1.2 | 1.5 | 1.6   | 1.4 | 1.5   | 1.5 | 1.9 | 1.7 | 1.7 | 1.4 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 20      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.4 | 1.5 | E3.0C | C   | C     | C   | C   | C   | C   | C   | C   | C   | 1.6 | 1.4 | 1.0   | 1.0 | 1.0 | 1.0   |
| 21      | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0   | 1.0 | 1.2 | 1.4   | 1.5 | 1.5   | 1.9 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.2 | 1.2 | 1.2 | 1.0   | 1.0 | 1.0 | 1.0   |
| 22      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.2 | 1.4 | 1.4   | 1.4 | 1.5   | 1.5 | 1.6 | 1.6 | 1.7 | 1.5 | 1.3 | 1.5 | 1.0 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 23      | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0   | 1.2 | 1.5 | 1.5   | 1.5 | 1.5   | 1.3 | 1.4 | 2.2 | 1.5 | 1.6 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5   | 1.8 | 1.7 | 1.8   |
| 24      | 1.6 | 1.5 | 1.7 | 1.5 | 2.0 | 1.5   | 1.6 | 1.4 | 1.9   | 1.9 | 1.5   | 1.8 | 1.5 | 1.5 | 1.6 | 1.5 | 1.2 | 1.5 | 1.2 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 25      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3   | 1.2 | 1.4 | 1.4   | 1.3 | 1.6   | 1.5 | 1.6 | 1.8 | 1.6 | 1.7 | 1.8 | 1.4 | 1.6 | 1.4 | 1.2   | 1.0 | 1.0 | 1.5   |
| 26      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.4   | 1.5 | 1.5 | 1.5   | 1.8 | 2.0   | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.4 | 1.5   | 1.0 | 1.0 | 1.0   |
| 27      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3   | 1.5 | 1.5 | 1.6   | 1.5 | 1.7   | 1.6 | 2.1 | 1.9 | 1.8 | 1.8 | 1.5 | 1.5 | 1.4 | 1.2 | 1.2   | 1.0 | 1.0 | 1.3   |
| 28      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3   | 1.6 | 1.5 | 1.5   | 1.6 | 1.5   | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 2.0 | 1.5 | 1.6 | 1.7 | 1.0   | 1.9 | 1.5 | 1.6   |
| 29      | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.8   | 1.9 | 1.5 | 2.0   | 1.8 | 1.7   | 1.7 | 1.7 | 1.5 | 1.6 | 1.4 | 1.5 | 1.5 | 1.3 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| 30      | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5   | 1.5 | 1.6 | 1.6   | 1.5 | 1.5   | 2.0 | 2.0 | 2.1 | 1.6 | 1.7 | 1.5 | 1.5 | 1.5 | 1.3 | 1.8   | 1.6 | 1.5 | 1.6   |
| 31      | 1.0 | 1.0 | 1.6 | 1.5 | 1.5 | 1.5   | 1.4 | 1.5 | 1.5   | 1.7 | 1.9   | 1.8 | 1.9 | 2.0 | 1.5 | C   | C   | 1.5 | 1.5 | 1.4 | 1.0   | 1.5 | 1.0 | 1.0   |
| Медиана | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2   | 1.4 | 1.5 | 1.5   | 1.5 | 1.6   | 1.8 | 1.8 | 1.8 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.0 | 1.0   | 1.0 | 1.0 | 1.0   |
| Учтено  | 31  | 31  | 31  | 31  | 31  | 31    | 31  | 31  | 31    | 30  | 30    | 30  | 30  | 30  | 29  | 28  | 29  | 31  | 31  | 31  | 31    | 31  | 31  | 31    |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек мин.

Станция автоматическая (ручная, автоматическая)

(M3000)F2 МАИ 1974г.  
(характеристика) (единицы) (месяц) (год)

МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

Академия Наук КазССР  
(институт)

Станция АЛМА-АТА

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Милюттиной

Долгота 76°55'E широта 43°15'N

поясное время 75°E

Кем подсчитана Милюттиной

| 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       | U2.85F    | 2.90      | 3.00      | 2.90      | 2.70      | 2.90      | 2.90      | R         | R         | 3.05      | U3.10R    | R         | 3.00      | 2.90      | 2.95      | U2.95R    | 3.05      | 3.10      | U3.20R    | U3.15R    | U2.95S    | U3.10S    | U3.00S    | U2.85C    |  |  |
| 2       | 2.80      | 2.60      | 2.85      | 2.85      | 2.80      | 3.15      | 3.35      | R         | R         | U2.80R    | 2.95      | U2.90R    | U3.05R    | U3.05R    | U3.05R    | 3.00      | 2.90      | 3.05      | S         | U3.10S    | S         | S         | U2.85S    | 2.80      |  |  |
| 3       | 2.70      | 2.80      | 2.80      | 2.90      | 2.95      | 3.05      | 2.65      | R         | U3.00R    | U3.05R    | U2.80R    | 2.90      | 2.95      | 2.80      | U3.00R    | 3.00      | U3.00R    | U2.90R    | U3.05R    | U3.05R    | U3.10S    | U2.95S    | U2.75C    | U2.80S    |  |  |
| 4       | U2.80S    | 2.85      | 2.85      | 2.80      | 2.80      | 3.00      | R         | U3.10S    | 3.00      | 3.00      | 2.85      | 2.80      | 2.90      | 2.85      | U2.95S    | 2.85      | U3.00S    | 3.10      | U3.05S    | U2.90S    | S         | S         | U2.90S    | 2.80      |  |  |
| 5       | 2.75      | U2.80S    | 2.95      | 2.60      | 2.80      | 3.00      | 3.05      | U2.85S    | U2.90S    | U3.05S    | 2.95      | 2.80      | 2.85      | 2.85      | 3.00      | U3.05S    | 2.90      | 3.05      | U3.05S    | U3.10R    | U3.10S    | 2.90      | 2.85      | U2.60S    |  |  |
| 6       | 2.60      | 2.60      | 2.75      | 2.80      | 2.95      | 3.10      | 3.15      | 3.05      | 3.10      | 3.05      | 2.85      | 3.00      | 3.05      | 2.90      | U3.00S    | 3.00      | 3.00      | 3.00      | U3.10S    | U3.15R    | U3.00S    | C         | U2.80S    | U2.80S    |  |  |
| 7       | 2.80      | U2.80S    | U2.80S    | U2.85S    | 2.80      | 3.10      | 3.10      | U3.05S    | U3.05S    | 3.05      | 2.85      | 2.75      | 2.85      | 2.80      | 3.00      | 3.00      | U3.05R    | 3.05      | U3.10S    | 3.05      | A         | U2.70S    | A         | F         |  |  |
| 8       | U2.90S    | U2.75S    | U2.80S    | U2.80S    | 2.80      | 3.10      | 3.35      | 3.35      | 2.95      | 3.05      | 3.00      | 2.80      | 2.80      | 2.95      | 3.00      | 3.00      | 2.95      | U2.95S    | U3.05S    | 3.10      | U3.15C    | U2.75S    | U2.85S    | S         |  |  |
| 9       | U2.80S    | U2.80S    | U2.80F    | U2.85F    | U2.90S    | 3.10      | 2.80      | 2.90      | 3.05      | U2.80R    | U2.70R    | 2.80      | 2.80      | 2.80      | 2.80      | 2.90      | 2.95      | 3.00      | U3.25S    | U3.10S    | U2.90S    | S         | S         | U2.75S    |  |  |
| 10      | U2.80S    | 2.80      | U2.90S    | U2.70S    | 2.80      | 3.15      | 2.90      | U2.80S    | U3.00S    | 2.90      | A         | R         | A         | 2.80      | 2.95      | 3.00      | 3.05      | 3.10      | U3.25S    | U3.15S    | U2.85S    | U2.80S    | U2.60S    | U2.95S    |  |  |
| 11      | U2.80S    | U2.80S    | 2.85      | U2.85S    | 2.85      | 3.05      | 3.10      | 3.05      | 2.95      | 2.95      | 2.90      | U3.00S    | U3.00S    | 2.95      | 2.95      | 2.95      | A         | A         | U3.10S    | U2.95S    | U3.05S    | U3.05S    | U2.90R    | U2.95S    |  |  |
| 12      | S         | S         | U3.05S    | 2.80      | 3.00      | 3.10      | U3.15S    | 3.05      | 2.90      | 2.90      | 2.90      | 2.80      | 2.90      | 2.90      | 2.90      | 2.90      | 2.95      | 2.95      | 3.10      | U3.00S    | S         | S         | S         | S         |  |  |
| 13      | U2.85S    | U2.85S    | 2.60      | 2.65      | U2.80S    | A         | A         | 2.95      | U3.15S    | 2.95      | 2.90      | 2.90      | U2.95S    | U2.80S    | U2.80S    | 2.95      | U3.00S    | 3.00      | A         | U3.10S    | S         | A         | S         | A         |  |  |
| 14      | U2.85S    | 2.70      | 2.75      | 2.80F     | U2.85F    | 3.20      | U3.15R    | 3.10      | R         | U3.15R    | U3.00R    | R         | U2.95R    | U2.95R    | 3.10      | 3.05      | 2.85      | U2.90S    | U3.00S    | 3.05      | U3.10R    | 3.00      | U2.90S    | 2.90      |  |  |
| 15      | 2.90      | 2.75      | 2.65      | 2.70F     | 2.85F     | 2.75      | 3.10      | U3.40R    | U3.00R    | 3.00      | U3.00R    | 2.90      | U2.85R    | 2.85      | R         | U2.85R    | U2.95R    | U3.00R    | U3.20R    | 2.90      | R         | R         | S         | U3.00S    |  |  |
| 16      | C         | 2.90      | 2.80      | 2.75      | 2.85      | 2.70      | 2.75      | U2.85R    | U2.60R    | U3.05R    | U2.90R    | 2.90      | U3.05R    | 3.20      | 3.10      | U2.95R    | U3.00R    | U3.30R    | 3.40      | R         | R         | R         | R         | U3.10S    |  |  |
| 17      | U2.80F    | U2.80F    | F         | U2.90F    | 3.00F     | 2.95      | 3.00      | U3.05S    | U2.85R    | U2.65R    | U3.10R    | G         | U2.70R    | U3.05S    | 3.10      | U3.10S    | U2.90S    | U3.10S    | S         | U2.95S    | U3.05S    | U2.95S    | U3.10S    | U2.80S    |  |  |
| 18      | A         | U2.70F    | U2.80F    | U2.60F    | 2.80      | U3.05S    | A         | U2.45S    | U2.80S    | R         | R         | R         | U2.85R    | U2.85R    | C         | C         | U3.10S    | U3.10S    | 3.10      | 3.10      | A         | U2.65S    | A         | U2.85S    |  |  |
| 19      | 2.95      | A         | A         | A         | 2.80F     | 2.85      | U3.00S    | 3.05      | A         | 2.80      | U2.95R    | 2.80      | R         | 2.85      | A         | U3.00S    | 3.00      | 3.05      | A         | A         | A         | U2.60S    | U2.65F    | U2.65F    |  |  |
| 20      | A         | U2.80F    | U2.75F    | U3.05F    | U2.80R    | 2.85      | A         | 2.80      | 2.75      | C         | C         | C         | C         | C         | C         | C         | C         | 3.10      | 3.15      | 3.25      | S         | A         | U3.00S    | A         |  |  |
| 21      | U2.85S    | 2.95      | 2.90      | 3.05N     | 3.05      | 3.10      | U3.30S    | 3.10      | A         | A         | 3.05      | U3.00S    | S         | U3.05S    | 3.05      | U3.10S    | U3.05S    | U3.05S    | U3.20S    | U2.95S    | 3.00      | U3.00S    | U2.95S    | 2.85      |  |  |
| 22      | 2.90      | 2.90      | 2.90      | 2.85      | 3.05      | 3.00      | 3.00      | U2.80S    | 2.80      | 3.10      | 3.05      | 3.00      | U2.80R    | R         | 3.05      | 3.05      | U3.05S    | U3.15S    | 3.05      | 2.80      | U3.05S    | U3.05S    | U3.05S    | 3.05      |  |  |
| 23      | 2.85      | 2.80      | 2.80      | U2.65S    | 2.65      | 3.00      | U3.10R    | C         | 3.00      | 2.85      | 2.95      | U3.10R    | U3.05S    | 3.05      | 2.85      | 3.05      | U3.20S    | 3.10      | 3.10      | U3.15S    | U2.80S    | U2.75S    | U2.90S    | U2.80S    |  |  |
| 24      | 2.80      | 2.80      | 2.85      | 2.75      | 2.85      | 3.05      | 2.85      | A         | 2.95      | R         | S         | S         | U2.85S    | U2.90S    | 2.70      | 2.95      | 3.05      | A         | A         | U3.10S    | S         | U2.80S    | A         | U2.85S    |  |  |
| 25      | 3.10      | U3.05S    | A         | U2.80N    | U2.85S    | 2.90      | A         | R         | U2.80R    | G         | 2.55      | 2.40      | U2.85S    | A         | 3.05      | U2.85R    | 2.80      | A         | 2.90      | A         | 3.05      | 3.00      | U2.90S    | A         |  |  |
| 26      | 2.80      | U2.85S    | 2.80F     | A         | 3.05      | 3.05      | 2.75      | U3.00S    | A         | A         | A         | A         | 2.90      | A         | A         | A         | A         | A         | A         | U3.05S    | U2.70S    | F         | S         |           |  |  |
| 27      | U2.90S    | 2.85      | U3.00F    | 2.75F     | U3.00F    | 2.95      | 3.10      | 3.05      | A         | A         | U2.80R    | 2.75      | 3.05      | U3.05R    | U2.95S    | A         | A         | U3.10S    | U3.15S    | U3.25S    | U2.95S    | 2.85      | 2.80      | U2.95S    |  |  |
| 28      | U2.90S    | U2.85S    | 2.75      | 2.85      | 3.05      | 3.00      | 3.10      | 3.05      | 3.30      | 3.10      | 2.95      | U2.80S    | U3.05S    | 2.80      | U2.80S    | 2.85      | 3.05      | 3.00      | A         | A         | 3.10      | A         | S         | U2.85S    |  |  |
| 29      | F         | S         | U2.80S    | U2.85F    | U2.80F    | 2.80      | 2.80      | A         | A         | 3.00      | 2.60      | U2.85S    | 3.00      | 2.85      | 3.00      | 2.80      | A         | U3.00S    | 3.05      | 3.05      | 3.10      | 3.05      | 2.90      | 2.80      |  |  |
| 30      | 2.80      | 3.00      | 2.90      | 2.90      | 3.10      | 2.95      | U2.85R    | 2.80      | 2.75      | A         | A         | A         | A         | 2.95      | 2.95      | U2.85S    | A         | A         | S         | A         | A         | A         | 2.90      | U2.80S    |  |  |
| 31      | 2.55      | 2.80      | U2.65S    | 2.75      | 2.65N     | 3.00      | 2.80      | A         | A         | A         | 2.85      | U2.85S    | U2.70S    | 2.75      | U2.95S    | C         | C         | 3.05      | 3.05      | U3.00S    | 3.00      | 2.80      | U2.85S    | U2.95S    |  |  |
| f       | 0.10      | 0.05      | 0.10      | 0.10      | 0.20      | 0.15      | 0.25      | 0.20      | 0.20      | 0.20      | 0.15      | 0.10      | 0.15      | 0.15      | 0.10      | 0.10      | 0.10      | 0.10      | 0.15      | 0.10      | 0.15      | 0.25      | 0.10      | 0.15      |  |  |
| Медиана | 2.80      | 2.80      | 2.80      | 2.80      | 2.85      | 3.00      | 3.00      | 3.05      | 2.95      | 3.00      | 2.90      | 2.85      | 2.90      | 2.90      | 3.00      | 3.00      | 3.00      | 3.05      | U3.10S    | U3.10S    | U3.05S    | U2.90S    | U2.90S    | U2.85S    |  |  |
| Учено   | 26        | 28        | 28        | 29        | 31        | 30        | 26        | 23        | 22        | 23        | 25        | 23        | 26        | 27        | 26        | 26        | 25        | 26        | 23        | 25        | 19        | 20        | 21        | 24        |  |  |
|         | 2.80/2.90 | 2.80/2.85 | 2.80/2.90 | 2.75/2.85 | 2.80/3.00 | 2.95/3.10 | 2.85/3.10 | 2.85/3.05 | 2.80/3.00 | 2.85/3.05 | 2.85/3.00 | 2.80/2.90 | 2.85/3.00 | 2.80/2.95 | 2.95/3.05 | 2.90/3.00 | 2.95/3.05 | 3.00/3.10 | 3.05/3.20 | 3.00/3.10 | 2.95/3.10 | 2.75/3.00 | 2.80/2.90 | 2.80/2.95 |  |  |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин.

Станция автоматическая  
(ручная, автоматическая)

(M3000)F1 Май 1974г.  
(характеристика) (единицы) (месяц) (год)Академия Наук КазССР  
(институт)Станция Алма-Ата  
Долгота 76°55'E широта 43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время 75°EКем составлена Милютиной  
Кем подсчитана Милютиной

| 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      | U3.50L | A      | 3.55   | A     | U3.60L | 3.80   | U3.45L | 3.55   | U3.40L | A      | A      |    |    |    |    |    |    |
| 2       |    |    |    |    |    |        | L      | L      | L      | A      | 3.70  | 3.70   | 3.70   | U3.85L | U3.50L | U3.60L | L      | L      | L  |    |    |    |    |    |
| 3       |    |    |    |    |    |        | L      | A      | A      | 3.65   | 3.50H | 3.60H  | 3.40   | U3.35L | 3.50   | U3.50L | L      | L      | L  |    |    |    |    |    |
| 4       |    |    |    |    |    |        | L      | U3.75L | L      | 3.55   | 3.50  | 3.40   | A      | L      | 3.55   | 3.45   | U3.45L | L      | L  |    |    |    |    |    |
| 5       |    |    |    |    |    |        | L      | L      | A      | 3.45   | 3.55  | L      | 3.50   | U3.40L | A      | 3.50   | L      | L      |    |    |    |    |    |    |
| 6       |    |    |    |    |    |        |        | A      | A      | U3.55L | A     | 3.40   | L      | 3.40   | 3.35   | L      | L      | L      | L  |    |    |    |    |    |
| 7       |    |    |    |    |    |        |        | L      | 3.55   | 3.50   | A     | A      | 3.40   | 3.50   | A      | A      | A      | A      |    |    |    |    |    |    |
| 8       |    |    |    |    |    |        | L      |        | A      | A      | 3.65  | A      | A      | A      | 3.60   | 3.50   | L      | L      |    |    |    |    |    |    |
| 9       |    |    |    |    |    |        |        | A      | A      | 3.80   | L     | 3.85   | 3.50   | 3.75   | A      | 3.65   | 3.55   | L      | L  |    |    |    |    |    |
| 10      |    |    |    |    |    |        |        | A      | A      | A      | A     | R      | A      | A      | A      | A      | A      | L      | L  |    |    |    |    |    |
| 11      |    |    |    |    |    |        |        | L      | L      | A      | A     | 3.70   | A      | A      | A      | A      | A      | A      | A  |    |    |    |    |    |
| 12      |    |    |    |    |    |        | L      | L      | L      | 3.50   | L     | L      | 3.40   | 3.45   | 3.40   | L      | L      | 3.50   | A  |    |    |    |    |    |
| 13      |    |    |    |    |    |        |        | L      | 3.60   | 3.55   | A     | A      | A      | A      | L      | 3.55   | A      | A      |    |    |    |    |    |    |
| 14      |    |    |    |    |    |        |        | A      | 3.60   | 3.70   | 3.80  | U3.90L | A      | A      | 3.70   | L      | L      | U3.40L | L  |    |    |    |    |    |
| 15      |    |    |    |    |    | A      | A      | U3.55L | U3.65L | A      | A     | 3.80   | A      | 3.70H  | 3.55   | 3.25   | U3.50L | L      |    |    |    |    |    |    |
| 16      |    |    |    |    |    | U3.10L | 3.30   | 3.30   | 3.45   | A      | 3.70  | 3.70   | 3.60   | 3.55   | 3.55   | 3.30   | L      | U3.60L |    |    |    |    |    |    |
| 17      |    |    |    |    |    |        | 3.10   | 3.60   | L      | L      | 3.85  | L      | R      | 3.45   | 3.50   | U3.80L | L      | A      |    |    |    |    |    |    |
| 18      |    |    |    |    |    | L      | A      | S      | A      | 3.65   | 4.00  | R      | A      | U3.50R | C      | C      | L      | L      | L  |    |    |    |    |    |
| 19      |    |    |    |    |    |        | L      | A      | A      | A      | R     | U3.45R | 3.80   | A      | A      | A      | L      | L      | A  |    |    |    |    |    |
| 20      |    |    |    |    |    |        |        | A      | A      | C      | C     | C      | C      | C      | C      | C      | C      | L      |    |    |    |    |    |    |
| 21      |    |    |    |    |    |        | L      | A      | A      | A      | 3.60  | 3.55   | U3.65S | 3.60   | 4.00   | 3.65   | L      | L      | L  |    |    |    |    |    |
| 22      |    |    |    |    |    |        |        | A      | 3.45   | 3.75   | 3.50  | A      | 3.85   | 3.80   | 3.80   | 3.85   | L      | L      | L  | L  |    |    |    |    |
| 23      |    |    |    |    |    | L      | A      | A      | L      | R      | A     | 3.85   | 3.85   | 3.85   | 3.80   | 3.60   | 3.30   | L      | L  |    |    |    |    |    |
| 24      |    |    |    |    |    | L      | A      | A      | 3.65   | 3.70   | R     | 3.80   | U3.85R | A      | A      | 3.70   | A      | A      | A  |    |    |    |    |    |
| 25      |    |    |    |    |    | L      | A      | 3.65   | A      | 3.35   | 4.00  | 4.00   | 4.00   | A      | 3.60   | L      | L      | A      |    |    |    |    |    |    |
| 26      |    |    |    |    |    |        | 3.35   | A      | A      | A      | A     | A      | R      | A      | A      | A      | A      | A      | A  |    |    |    |    |    |
| 27      |    |    |    |    |    | L      | L      | A      | A      | A      | 3.80  | 3.65   | A      | A      | A      | A      | A      | A      | L  |    |    |    |    |    |
| 28      |    |    |    |    |    | L      | U3.25L | A      | A      | A      | 3.85  | 3.75   | 3.80   | A      | A      | 3.40   | A      | L      |    |    |    |    |    |    |
| 29      |    |    |    |    |    |        | A      | A      | A      | 3.70   | A     | 3.90   | 3.75   | A      | A      | A      | A      | A      |    |    |    |    |    |    |
| 30      |    |    |    |    |    | L      |        | A      | 3.80   | A      | A     | A      | A      | A      | R      | R      | A      | A      |    |    |    |    |    |    |
| 31      |    |    |    |    |    |        | A      | A      | A      | A      | 3.65  | 3.60   | 3.30   | 3.60   | 3.60   | C      | C      | A      |    |    |    |    |    |    |
| Медiana |    |    |    |    |    | U3.10L | 3.30   | 3.55   | 3.60   | 3.55   | 3.70  | 3.70   | 3.70   | 3.50   | 3.55   | 3.50   | 3.50   | U3.50L |    |    |    |    |    |    |
| Учено   |    |    |    |    |    | 1      | 4      | 7      | 8      | 15     | 14    | 20     | 17     | 16     | 16     | 15     | 4      | 3      |    |    |    |    |    |    |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин.Станция автоматическая  
(ручная, автоматическая)

R'F КМ Мац 1974г

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

Станция

Алма-Ата

Долгота

76°55'В

широта

43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время 75°E

Академия Наук КазССР

(институт)

Кем составлена

Милютиной

Кем подсчитана

Милютиной

| 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       | E275A        | E245E        | E235A        | E250A        | E350A        | 265        | 245        | 240        | I230A      | 220        | I210A      | 205H       | 200        | 200        | 210        | 240        | A          | A          | E250A      | E250A      | E300A        | E255A        | E240A        | E250C        |
| 2       | E285A        | E320A        | E275A        | E250E        | E265E        | 255        | 240        | 225        | 220        | I205A      | 190        | 190        | 210        | 200        | 200H       | 235        | 230        | 250        | 250        | 235        | 250          | E230A        | E240A        | E270A        |
| 3       | E305A        | E280E        | E255E        | E260E        | 250          | 250        | A          | A          | I225A      | 225        | 210H       | 200H       | 215        | 210        | 205        | 245        | 230        | 250        | 245        | 235        | E230A        | E250A        | E300A        | E255A        |
| 4       | E295A        | E260A        | E255E        | E280B        | E290B        | 260        | 245        | 235        | I230A      | 210        | 220        | 195        | I215A      | 225        | 205        | 230        | 245        | 245        | 255        | 265        | E250A        | E260A        | E270A        | E290A        |
| 5       | E255A        | E250A        | E255A        | E300A        | E255E        | 260        | 250        | 270        | I255A      | 240        | 200        | 200        | 200        | 240        | E235A      | 240        | 240        | 255        | 265        | E270A      | E250A        | E260A        | E250A        | E315A        |
| 6       | E325A        | E300E        | E275E        | E275E        | E250B        | E250A      | 265        | A          | A          | 235        | I210A      | 205        | 210        | 205        | 220        | 220        | 240        | 240        | 255        | 240        | E250A        | E270A        | E295A        | E275A        |
| 7       | E275A        | E275A        | E275A        | E260E        | E250E        | 250        | 245        | 270        | 255        | 215        | A          | A          | 230        | 225        | A          | A          | A          | A          | E280A      | E290A      | A            | E365A        | A            | E330A        |
| 8       | E250B        | E270B        | E300A        | E290A        | E265A        | 255        | 235        | 235        | A          | A          | 205        | A          | A          | A          | 210        | 225        | 240        | 240        | 265        | E250A      | E250A        | E240A        | E295A        | E350A        |
| 9       | E300A        | E285E        | E295A        | E260A        | E250E        | 245        | 225        | I210A      | I230A      | 205        | 225        | 200        | 215        | 210        | I210A      | 235        | 225        | 240        | 250        | E250A      | E245A        | E325A        | E300A        | E300A        |
| 10      | E260E        | E270A        | E250B        | E345A        | E300A        | E250A      | 245        | A          | A          | A          | A          | R          | A          | A          | A          | A          | I230A      | 245        | 240        | 240        | E275A        | E285A        | E305A        | E250E        |
| 11      | E370A        | E300A        | E280A        | E245A        | E250A        | 250        | 240        | I240A      | A          | A          | A          | 235        | A          | A          | A          | A          | A          | A          | E250A      | E250A      | E240A        | E250A        | E295A        | E280A        |
| 12      | E250E        | E250B        | E235E        | E250E        | E250E        | 250        | 240        | 230        | 240        | 215        | 215        | 200        | 210        | 245        | 200        | 240        | 230        | 240        | I250A      | E250A      | E265A        | E260A        | E320A        | E280A        |
| 13      | E290A        | E315A        | E325A        | E305A        | E300A        | E325A      | A          | A          | 240        | 215        | A          | A          | A          | A          | 215        | 245        | I250A      | A          | A          | E250A      | 240          | A            | E335A        | A            |
| 14      | E280A        | E300A        | E300A        | E275B        | 275          | 255        | E255A      | A          | 210        | 215        | 190        | 195        | A          | A          | 210        | 170        | 215        | 250        | 250        | 245        | E235A        | E230A        | E250A        | E250A        |
| 15      | E290A        | E280A        | E370A        | E310A        | E305A        | A          | A          | 225        | 215        | I210A      | I200A      | 200        | I200A      | 200H       | 220        | 220        | 225        | 250        | 255        | 250        | 250          | E250A        | E260B        | E250B        |
| 16      | E250E        | E240E        | E245E        | E270B        | E310A        | 260        | 245        | 230        | E230A      | A          | A          | 200        | 200        | 195        | 215        | 215        | 235        | 235        | 250        | 265        | E260A        | E265A        | E260A        | E230E        |
| 17      | E275A        | E275E        | E275E        | E260E        | E250E        | 270        | 255        | 235        | 200        | 220        | 205        | 205        | 205        | 220        | 235        | 210        | A          | A          | E260A      | E300A      | E250A        | E250A        | E240A        | E290A        |
| 18      | A            | E340A        | E275A        | E290A        | E300B        | 215        | I240A      | 225        | I210A      | 215        | 200        | 240        | I240A      | 205        | C          | C          | 215        | 240        | 245        | E285A      | A            | E360A        | A            | E325A        |
| 19      | E275A        | A            | A            | A            | E300A        | 255        | 285        | A          | A          | A          | 250        | 240        | 200        | A          | A          | A          | 230        | 270        | A          | E300A      | A            | E365A        | E300A        | E355A        |
| 20      | A            | E295A        | E290A        | E250A        | E340A        | E255A      | A          | A          | A          | C          | C          | C          | C          | C          | C          | C          | C          | 250        | E260A      | 240        | E260A        | E340A        | E255A        | E350A        |
| 21      | E295A        | E260A        | E245E        | E245B        | E225E        | 215        | 245        | A          | A          | A          | 200        | 200        | 240        | E270A      | 220        | 200        | 205        | 200        | 240        | 255        | E250A        | E250A        | E275A        | E290A        |
| 22      | E270A        | E260A        | E250E        | E250E        | 255          | 250        | I250A      | 240        | 220        | 240        | I205A      | 205        | 200        | 205        | 200        | 205        | 230        | 240        | E245A      | 255        | E275A        | E255A        | E250A        | E240A        |
| 23      | E250B        | E300A        | E300A        | E300E        | E295E        | 250        | A          | A          | E300A      | 250        | I220A      | 195        | 200        | 200        | 205        | 200        | 210        | 240        | 255        | 250        | E290A        | E305A        | E280B        | E295A        |
| 24      | E275B        | E275B        | E275B        | E320A        | E295B        | 260        | A          | A          | 240        | 220        | 225        | 205        | 200        | I215A      | I245A      | 210        | I245A      | A          | A          | E255A      | E265A        | E300A        | A            | E270A        |
| 25      | E240A        | E245A        | A            | E290E        | E300A        | 245        | I240A      | 240        | I205A      | I200A      | 200        | 200        | 195        | I210A      | 235        | 215        | 200        | I295A      | E310A      | A          | E255A        | E250A        | E305A        | A            |
| 26      | E325A        | E320A        | E300A        | E340A        | E260A        | E290A      | 240        | A          | A          | A          | A          | A          | 195        | A          | A          | A          | A          | A          | A          | A          | E260A        | E350A        | E300A        | E300A        |
| 27      | E290A        | E255A        | E295A        | E290A        | 285          | 250        | 240        | A          | A          | A          | 205        | 200        | I200A      | I205A      | A          | A          | A          | A          | 240        | 245        | E290A        | E260A        | E310A        | E255A        |
| 28      | E260A        | E300A        | E310A        | E275A        | 255          | 250        | 240        | A          | A          | A          | 200        | 205        | 200        | I215A      | I245A      | 225        | I235A      | 240        | A          | A          | E265A        | A            | E300A        | E300A        |
| 29      | E295A        | E340A        | E350A        | E280B        | E295A        | E330A      | A          | I240A      | I230A      | 200        | I220A      | 195        | 245        | A          | A          | A          | A          | A          | 265        | 250        | E250A        | E245A        | E275A        | E305A        |
| 30      | E345A        | E245A        | E255A        | E270A        | 240          | A          | E250A      | I235A      | 225        | A          | A          | A          | A          | I240A      | 225        | 240        | A          | A          | E355A      | A          | A            | A            | E295A        | E305A        |
| 31      | E325A        | E295A        | E335A        | E310A        | E310A        | 275        | A          | A          | A          | A          | A          | 220        | 220        | 215        | 225        | C          | C          | A          | 270        | 245        | E230A        | E260B        | E260A        | E265A        |
| Медiana | E280A        | E275A        | E275A        | E275A        | E275A        | U250       | U240       | 235        | U230       | 215        | 205        | 200        | 200        | 210        | U210       | 225        | 230        | 240        | U250       | U240       | E250A        | E260A        | E280A        | E290A        |
| Учено   | 29           | 30           | 29           | 30           | 31           | 29         | 23         | 17         | 20         | 19         | 22         | 24         | 24         | 22         | 22         | 21         | 21         | 20         | 26         | 27         | 27           | 28           | 28           | 29           |
|         | E260<br>E300 | E260<br>E300 | E255<br>E300 | E260<br>E295 | E250<br>E300 | 250<br>260 | 240<br>250 | 230<br>240 | 220<br>235 | 210<br>225 | 200<br>220 | 200<br>205 | 200<br>215 | 205<br>220 | 205<br>225 | 210<br>240 | 220<br>240 | 240<br>250 | 245<br>260 | 240<br>260 | E250<br>E265 | E250<br>E300 | E260<br>E300 | E255<br>E305 |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин

Станция автоматическая  
(ручная, автоматическая)

Станция Алма-Ата  
Долгота 76°55'E широта 43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время 75°E

Кем составлена Милютинной  
Кем подсчитана Милютинной

| 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 285   | 350     | 295     | 295     | 380     | 310     | 325     | 315     | 310     | 290     | E280A   |         |         |         |     |    |    |    |  |  |
| 2       |    |    |    |    |    |    | 240     | L       | L       | 350     | 310     | 305     | 275     | 300     | 300     | 300     | L       | 275     | 255     |         |     |    |    |    |  |  |
| 3       |    |    |    |    |    |    | L 325   | 300     | 275     | 330     | 300     | 300     | 300     | 330     | 300     | 280     | L       | 295     | 250     |         |     |    |    |    |  |  |
| 4       |    |    |    |    |    |    | 260     | 265     | 295     | 305     | 335     | 345     | 315     | 340     | 310     | 310     | 305     | 260     | 270     |         |     |    |    |    |  |  |
| 5       |    |    |    |    |    |    | 290     | 320     | 300     | 290     | 300     | 330     | 340     | 315     | 295     | 300     | 300     | 285     |         |         |     |    |    |    |  |  |
| 6       |    |    |    |    |    |    | 295     | 290     | 295     | 325     | 295     | 290     | 320     | 305     | 295     | 290     | 280     | 255     |         |         |     |    |    |    |  |  |
| 7       |    |    |    |    |    |    | 290     | 285     | 285     | 290     | 340     | 315     | 300     | 305     | 290     | I295A   | 290     |         |         |         |     |    |    |    |  |  |
| 8       |    |    |    |    |    |    | 245     |         | 310     | 295     | 300     | 320     | 315     | 300     | 300     | 300     | 295     | 290     |         |         |     |    |    |    |  |  |
| 9       |    |    |    |    |    |    | 330     | 290     | 340     | 315     | 350     | 310     | 310     | 310     | 300     | 295     | 275     | 250     |         |         |     |    |    |    |  |  |
| 10      |    |    |    |    |    |    | 320     | 300     | 305     | E320A   | I295R   | I310A   | 335     | 305     | 300     | 285     | 270     | 245     |         |         |     |    |    |    |  |  |
| 11      |    |    |    |    |    |    | 280     | 295     | 295     | 300     | 295     | 290     | 300     | 300     | 300     | A       | E305A   |         |         |         |     |    |    |    |  |  |
| 12      |    |    |    |    |    |    | 250     | 280     | 290     | 300     | 300     | 345     | 320     | 315     | 315     | 305     | 295     | 280     | 260     |         |     |    |    |    |  |  |
| 13      |    |    |    |    |    |    | 290     | 265     | 300     | 310     | 310     | 310     | 335     | 325     | 305     | 300     | 285     |         |         |         |     |    |    |    |  |  |
| 14      |    |    |    |    |    |    | 280     | 275     | 265     | 300     | 330     | 300     | 305     | 285     | L       | L       | 300     | 280     |         |         |     |    |    |    |  |  |
| 15      |    |    |    |    |    |    | 390     | 300     | 260     | 295     | 325     | 310     | 315     | 345     | 320     | 315     | 295     | 305     | 270     |         |     |    |    |    |  |  |
| 16      |    |    |    |    |    |    | 370     | 375     | 350     | 430     | 330     | 360     | 365     | 300     | 290     | 330     | 315     | 275     | 250     |         |     |    |    |    |  |  |
| 17      |    |    |    |    |    |    | 300     | 290     | 340     | L       | 295     | 480     | 370     | 295     | 280     | 290     | 315     | 290     |         |         |     |    |    |    |  |  |
| 18      |    |    |    |    |    |    | 290     | I315A   | 400     | 350     | 340     | 400     | 350     | 340     | 340     | C       | C       | 275     | 285     | 270     |     |    |    |    |  |  |
| 19      |    |    |    |    |    |    | 305     | 295     | I330A   | 355     | 310     | 350     | 315     | 340     | I320A   | 300     | 305     | 295     | A       |         |     |    |    |    |  |  |
| 20      |    |    |    |    |    |    | 350     | 355     | C       | C       | C       | C       | C       | C       | C       | C       | C       | 255     |         |         |     |    |    |    |  |  |
| 21      |    |    |    |    |    |    | 255     | 290     | I340A   | I320A   | 300     | 305     | 310     | 300     | 300     | 275     | 300     | 290     | 245     |         |     |    |    |    |  |  |
| 22      |    |    |    |    |    |    | 310     | 345     | 340     | 270     | 290     | 305     | 355     | 340     | 290     | 300     | 300     | 270     |         | 300     |     |    |    |    |  |  |
| 23      |    |    |    |    |    |    | 290     | 290     | 255     | 440     | 415     | 310     | 270     | 290     | 300     | 340     | 295     | 275     | 285     | 275     |     |    |    |    |  |  |
| 24      |    |    |    |    |    |    | 295     | 380     | I370A   | 365     | 355     | 345     | 300     | 340     | 330     | 360     | 300     | 285     | A       | A       |     |    |    |    |  |  |
| 25      |    |    |    |    |    |    | 275     | I405A   | 420     | 350     | G       | 500     | 550     | 330     | I330A   | 300     | L       | 345     | I345A   |         |     |    |    |    |  |  |
| 26      |    |    |    |    |    |    | 375     | 305     | A       | A       | A       | I320A   | 325     | I350A   | I330A   | I305A   | 305     | A       |         |         |     |    |    |    |  |  |
| 27      |    |    |    |    |    |    | 320     | 290     | 300     | E300A   | I350A   | 350     | 360     | 295     | 295     | 310     | I335A   | I310A   | 285     | 270     |     |    |    |    |  |  |
| 28      |    |    |    |    |    |    | 290     | 275     | 280     | 255     | 290     | 315     | 350     | 300     | 430     | 350     | 305     | 280     | 280     |         |     |    |    |    |  |  |
| 29      |    |    |    |    |    |    | 340     | I345A   | I360A   | 305     | 390     | 340     | 350     | 330     | 305     | 345     | I325A   | 305     |         |         |     |    |    |    |  |  |
| 30      |    |    |    |    |    |    | 315     | 350     | 360     | I345A   | A       | A       | A       | 385     | 395     | 405     | A       | A       |         |         |     |    |    |    |  |  |
| 31*     |    |    |    |    |    |    | 355     | I410A   | I375A   | I345A   | 335     | 410     | 370     | 355     | 310     | I305A   | I315A   | 290     |         |         |     |    |    |    |  |  |
| Медиана |    |    |    |    |    |    | 55      | 80      | 70      | 60      | 50      | 35      | 45      | 40      | 40      | 20      | 10      | 15      | 20      | 20      |     |    |    |    |  |  |
| Учтено  |    |    |    |    |    |    | 295     | 300     | 300     | 310     | 305     | 310     | 330     | 310     | 320     | 310     | 300     | 300     | 285     | 260     | 300 |    |    |    |  |  |
|         |    |    |    |    |    |    | 9       | 20      | 29      | 29      | 28      | 28      | 29      | 29      | 30      | 29      | 27      | 25      | 28      | 12      | 1   |    |    |    |  |  |
|         |    |    |    |    |    |    | 290/345 | 270/350 | 280/350 | 290/350 | 295/345 | 300/335 | 305/350 | 300/340 | 300/340 | 300/320 | 295/305 | 290/305 | 270/290 | 250/270 |     |    |    |    |  |  |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20 сек мин.

Станция автоматическая  
(ручная, автоматическая)

h'E КМ Май 1974г.

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

Станция

Алма-Ата

Долгота

76°55'E

широта

43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время 75°E

Академия Наук Каз ССР

(институт)

Кем составлена

Милютиной

Кем подсчитана

Милютиной

| 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       |    |    |    |    |    | C     | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 105   | 105   | 110   | 115   | A     | A  |    |    |    |  |  |
| 2       |    |    |    |    |    | E125E | E115B | 110   | 105 | 105 | 100   | 100 | 100 | 105 | 105   | 105   | 105   | 110   | 115   | E     | E  |    |    |    |  |  |
| 3       |    |    |    |    | E  | E     | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | E120B | E     |    |    |    |    |  |  |
| 4       |    |    |    |    |    | E     | 110   | 110   | 105 | 100 | 100   | 100 | 105 | 100 | 100   | A     | A     | 110   | E115B | E     | A  |    |    |    |  |  |
| 5       |    |    |    |    | E  | A     | 105   | 105   | 105 | 105 | 105   | 105 | 105 | 105 | 105   | 105   | 105   | 105   | 110   | E     |    |    |    |    |  |  |
| 6       |    |    |    |    |    | B     | 115   | 105   | 105 | 105 | 100   | 100 | 105 | 105 | 105   | 105   | 105   | 105   | E120B | B     | A  |    |    |    |  |  |
| 7       |    |    |    |    | E  | B     | E105A | 105   | 105 | 105 | 105   | 105 | 105 | 105 | 105   | 105   | 105   | 105   | E125B | E     | A  |    |    |    |  |  |
| 8       |    | B  |    |    | A  | A     | E115B | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 105   | 110   | A     |    |    |    |    |  |  |
| 9       |    |    |    |    | E  | B     | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 105   | E     | A     | A  |    |    |    |  |  |
| 10      |    |    |    |    |    | A     | A     | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 100   | 100   | A     | A  |    |    |    |  |  |
| 11      |    |    |    |    |    | 110   | 105   | 105   | 105 | 105 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 105   | A     | A     | A  |    |    |    |  |  |
| 12      |    |    |    |    |    | E125E | 100   | 100   | 100 | 100 | E120C | 110 | 110 | 110 | 105   | 110   | 115   | 110   | E125B | A     | A  |    |    |    |  |  |
| 13      |    |    |    |    |    | B     | E110B | E115B | 110 | 105 | 105   | 105 | 105 | 105 | 105H  | 110   | 110   | E115B | E120E | B     | A  |    |    |    |  |  |
| 14      |    |    |    |    | E  | E125B | 110   | 100   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 105   | E115B | B     | A  |    |    |    |  |  |
| 15      |    |    |    |    |    | E120E | 110   | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | 105   | B     | A  |    |    |    |  |  |
| 16      |    |    |    |    | A  | E115B | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 100   | 105   | B     |    |    |    |    |  |  |
| 17      |    |    |    |    | E  | E     | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | 110   | A     |    |    |    |    |  |  |
| 18      |    |    |    |    | B  | B     | E115B | 105   | 100 | 100 | 100   | 100 | 100 | A   | C     | C     | 100   | 105   | 110   | A     |    |    |    |    |  |  |
| 19      |    |    |    |    | A  | B     | 105   | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 105   | 105   | 105   | E120B | E     |    |    |    |    |  |  |
| 20      |    |    |    |    |    | E125B | 105   | 105   | 105 | C   | C     | C   | C   | C   | C     | C     | C     | 105   | 105   | A     |    |    |    |    |  |  |
| 21      |    |    |    |    |    | 105   | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | 110   | E125B | A  |    |    |    |  |  |
| 22      |    |    |    |    | E  | E120E | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 100 | A     | A     | A     | A     | A     | A     | A  |    |    |    |  |  |
| 23      |    |    |    |    | E  | E     | 105   | 105   | 105 | 100 | 100   | 100 | 100 | 105 | 100   | 100   | 110   | E115B | E120B | B     | A  |    |    |    |  |  |
| 24      |    |    |    |    | B  | B     | 110   | 105   | 110 | 105 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | 105   | E     | A  |    |    |    |  |  |
| 25      |    |    |    |    | A  | E125B | 105   | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 105   | 105   | 105   | E125B | B     | A  |    |    |    |  |  |
| 26      |    |    |    |    |    | A     | 105   | 105   | 105 | 105 | 100   | 100 | 100 | 100 | E100A | 100   | 105   | 105   | E115B | B     | A  |    |    |    |  |  |
| 27      |    |    |    |    | E  | E120B | 105   | 105   | 105 | 100 | 100   | 100 | 105 | 105 | 105   | 105   | 105   | 105   | 105   | B     |    |    |    |    |  |  |
| 28      |    |    |    |    | A  | 110   | 105   | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 105   | E105A | 105   | E125B | B     | A  |    |    |    |  |  |
| 29      |    |    |    |    | A  | B     | E120B | 110   | 110 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 100   | 105   | 110   | E     | A  |    |    |    |  |  |
| 30      |    |    |    |    | A  | E130B | 105   | 105   | 100 | 100 | 100   | 100 | 100 | 105 | 105   | 100   | 105   | 105   | 110   | B     |    |    |    |    |  |  |
| 31      |    |    |    |    | A  | 130   | 120   | 110   | 110 | 105 | 105   | 105 | 105 | 105 | 100   | E100C | E105C | 105   | 110   | B     | A  |    |    |    |  |  |
| Медиана |    |    |    |    | E  | E125  | 105   | 105   | 105 | 100 | 100   | 100 | 100 | 100 | 100   | 100   | 105   | 105   | 110   | E     | E  |    |    |    |  |  |
| Учтено  |    |    |    |    | 9  | 18    | 30    | 31    | 31  | 30  | 30    | 30  | 30  | 29  | 28    | 27    | 28    | 30    | 29    | 9     | 1  |    |    |    |  |  |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин:

Станция автоматическая

(ручная, автоматическая)

R'Es Km Май 1974г.  
(характеристика) (единицы) (месяц) (год)

МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

Академия Наук КазССР  
(институт)

Станция Алма-Ата  
Долгота 76°55'E широта 43°15'N

ИОНОСФЕРНЫЕ ДАННЫЕ  
поясное время 75°E

Кем составлена Милюттиной  
Кем подсчитана Милюттиной

| 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 | E   | 100 | 100 | 100 | C     | E165G | E130G | 110   | 110   | 110   | 105   | 115   | 115   | 105   | 135   | 135   | 115   | 115   | 115   | 110 | 105 | 105  | 105 |
| 2       | 105 | 100 | 100 | E   | E   | E140G | 130   | 110   | 110   | 110   | 115   | 105   | G     | G     | G     | G     | G     | 125   | 115   | 110   | G   | 110 | 110  | 105 |
| 3       | 100 | E   | E   | E   | G   | 125   | 120   | 110   | 115   | 115   | 110   | 105   | G     | 105   | 105   | G     | G     | 125   | E150G | 120   | 110 | 110 | 105  | 100 |
| 4       | 100 | 100 | E   | 100 | B   | G     | E140G | E125G | 110   | 110   | 105   | 105   | 105   | 105   | 100   | 100   | 100   | E140G | 120   | 115   | 110 | 105 | 105  | 100 |
| 5       | 100 | 100 | 105 | 105 | G   | 130H  | 125   | 110   | 110   | 110   | 105   | 105   | 105   | 105   | 105   | 105   | E140G | 125   | 115   | 115   | 105 | 105 | 105  | 105 |
| 6       | 105 | E   | E   | E   | B   | 120   | 115   | 105   | 105   | 105   | 105   | 110   | 105   | 105   | 105   | 105   | 105   | E130G | 120   | 115   | 110 | 110 | 105  | 105 |
| 7       | 100 | 100 | 100 | E   | G   | B     | 110   | 130   | 120   | 120   | 110   | 105   | 105   | 110   | 105   | 105   | 110   | 110   | 125   | 120   | 115 | 115 | 105  | 105 |
| 8       | B   | B   | 100 | 105 | 100 | 105   | 110   | E130G | E120G | 110   | 105   | 105   | 105   | 105   | 110   | E140G | G     | 120   | 110   | 110   | 110 | 105 | 110  | 105 |
| 9       | 100 | E   | 100 | 100 | G   | B     | E125G | 110   | 105   | 105   | 105   | 105   | 105   | 105   | 105   | 115   | 110   | 110   | 105   | 115   | 110 | 110 | 105  | 100 |
| 10      | E   | 100 | B   | 100 | 100 | 100   | 110H  | 115   | 110   | 110   | 110   | 105   | 100   | 100   | 100   | 100   | 105   | G     | G     | E130G | 115 | 110 | 115  | 110 |
| 11      | 105 | 105 | 100 | 100 | 105 | E150G | E140G | 120   | 110   | 110   | 110   | 105   | 105   | 105   | 100   | 100   | 100   | 100   | 100   | 100   | 100 | 110 | 105  | 105 |
| 12      | E   | B   | E   | E   | E   | E150G | E145G | E125G | E125G | E120G | E125G | E115G | E120G | E120G | E120G | G     | E145G | 140   | 125   | 125   | 120 | 120 | 120  | 115 |
| 13      | 115 | 110 | 110 | 105 | 130 | 130   | 120   | 120   | 120   | 115   | 105   | 105   | 105   | 105   | G     | E155G | 135   | 120   | 120   | 120   | 120 | 110 | 105  | 105 |
| 14      | 100 | 100 | 100 | B   | G   | 115   | 110   | 105   | 110   | 105   | 105   | 100   | 105   | 110   | G     | 100   | 160   | 130   | 125   | 110   | 105 | 105 | 100  | 100 |
| 15      | 100 | 100 | 100 | 100 | 100 | 120   | 115   | 120   | 115   | 110   | 105   | 105   | 100   | 100   | 105   | 105   | 105   | 135   | 115   | 120   | 120 | 115 | B    | B   |
| 16      | E   | E   | E   | B   | 115 | E150G | 120   | 110   | 110   | 105   | 105   | E125G | E120G | G     | G     | G     | G     | 150   | 120   | 120   | 120 | 110 | 105  | E   |
| 17      | 100 | E   | E   | E   | G   | G     | 110   | 110   | 110   | 105   | 105   | 105   | 105   | E115G | E140G | 140   | 120   | 115   | 110   | 110   | 105 | 105 | 100  | 100 |
| 18      | 100 | 100 | 100 | 105 | B   | 135   | 110   | 110   | 105   | 105   | 100   | 100   | 100   | 100   | C     | C     | E145G | 125   | 130   | 115   | 115 | 110 | 105  | 105 |
| 19      | 100 | 100 | 100 | 100 | 100 | 130   | 125   | 115   | 110   | 105   | 105   | 110   | 110   | 105   | 105   | 115   | 140   | 130   | 120   | 120   | 115 | 120 | 105  | 105 |
| 20      | 105 | 105 | 105 | 105 | 100 | 125   | 110   | 105   | 105   | C     | C     | C     | C     | C     | C     | C     | C     | 145   | 115   | 115   | 115 | 105 | 105  | 105 |
| 21      | 105 | 105 | E   | B   | E   | G     | 105   | 110   | 105   | 105   | 110   | E115G | 105   | 105   | 105   | G     | G     | G     | 160   | 125   | 115 | 105 | 105  | 105 |
| 22      | 105 | 100 | E   | E   | G   | E155G | 115   | 105   | 105   | 105   | 105   | 105   | 105   | G     | 100   | 100   | 100   | E145G | 100   | 115   | 110 | 110 | 105  | 100 |
| 23      | B   | 100 | 100 | E   | G   | G     | 120   | 115   | 115   | 115   | 110   | 110   | 110   | G     | 105   | 100   | G     | G     | E145G | 135   | 125 | 120 | 120  | 120 |
| 24      | 135 | B   | B   | 105 | B   | B     | 120   | 115   | 120   | 125   | 110   | E115G | 105   | 110   | 110   | E150G | 115   | 110   | 110   | 110   | 110 | 105 | 105  | 105 |
| 25      | 110 | 100 | 100 | 125 | 125 | E140G | 120   | 120   | 110   | 110   | 110   | G     | 120   | 100H  | 105H  | 145   | 145   | 120   | 120   | 110   | 110 | 105 | 105  | 105 |
| 26      | 105 | 105 | 100 | 105 | 100 | 115   | 120   | 110   | 110   | 110   | 105   | 105   | 105   | 100   | 110   | 105   | E140G | 125   | 120   | 120   | 120 | 115 | 105  | 105 |
| 27      | 100 | 105 | 100 | 100 | G   | 125   | 120   | 110   | 110   | 105   | 105   | 105   | 105   | 105   | 105   | 105   | 105   | 105H  | 120   | 110   | 110 | 110 | 105  | 105 |
| 28      | 100 | 100 | 100 | 100 | 105 | 115   | 120   | 115   | 105   | 105   | 105   | 105   | 105   | 105   | 105   | 105   | 135   | 120   | 115   | 125   | 110 | 115 | 110  | 110 |
| 29      | 110 | 110 | 120 | B   | 120 | 125   | 125   | 115   | 115   | 105   | 105   | 105   | 110   | E120G | 125   | 120   | 115   | 120   | 110   | 115   | 105 | 110 | 105  | 105 |
| 30      | 105 | 105 | 105 | 105 | 105 | 120   | 120   | 120   | E115G | 105   | 105   | 105   | 110   | 115   | 120   | 140   | 120   | 110   | 110   | 105   | 115 | 130 | 125  | 110 |
| 31      | 110 | 105 | 105 | 105 | 120 | 130   | 125   | 120   | 120   | 115   | 120   | 120   | 120   | 115   | 105   | C     | C     | 125   | 110   | 110   | 115 | B   | 115H | 105 |
| Медиана | 105 | 100 | 100 | 105 | 105 | 1120  | 1120  | 1110  | 110   | 110   | 105   | 105   | 105   | 105   | 105   | 105   | 1110  | 1120  | 1120  | 115   | 110 | 110 | 105  | 105 |
| Учтено  | 26  | 22  | 21  | 19  | 15  | 23    | 31    | 31    | 31    | 30    | 30    | 29    | 28    | 26    | 25    | 23    | 23    | 28    | 30    | 31    | 30  | 30  | 30   | 29  |

Пробег частоты от 1.0 Мгц до 18.0 Мгц 20сек мин.

Станция автоматическая  
(ручная, автоматическая)

KpF2 КМ Май 1974г.  
(характеристика) (единицы) (месяц) (год)Академия Наук КазССР  
(институт)Станция АЛМА-АТА  
Долгота 76°55'E широта 43°15'N

## ИОНОСФЕРНЫЕ ДАННЫЕ

поясное время 75°E

Кем составлена Милютинкой  
Кем подсчитана Милютинкой

| 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       | U335F | 325   | 305   | 325   | 365   | 325   | 325   | R     | R     | 300   | U295R | R     | 310   | 325   | 315   | U315R | 300   | 290   | U275R | U285R | U315S | U295S | U310S | U340C |     |  |  |
| 2       | 350   | 390   | 340   | 335   | 345   | 285   | 255   | R     | R     | U350R | 320   | U325R | U300R | U300R | U300R | 305   | 325   | 300   | S     | U290S | S     | S     | U340S | 345   |     |  |  |
| 3       | 370   | 355   | 355   | 330   | 315   | 300   | 380   | R     | U305R | U300R | U355R | 325   | 320   | 355   | U310R | 310   | U305R | U330R | U295R | U300R | U290S | U320S | U365C | U350S |     |  |  |
| 4       | U350S | 340   | 340   | 350   | 355   | 305   |       | R     | U290S | 305   | 305   | 335   | 350   | 330   | 340   | U320S | 340   | U310S | 290   | U300S | U325S | S     | S     | U330S | 350 |  |  |
| 5       | 360   | U350S | 320   | 390   | 355   | 305   | 300   | U335S | U325S | U300S | 315   | 350   | 345   | 340   | 310   | U300S | 325   | 300   | U300S | U290R | U295S | 325   | 340   | U395S |     |  |  |
| 6       | 400   | 390   | 360   | 350   | 320   | 290   | 285   | 300   | 295   | 300   | 340   | 310   | 300   | 325   | U310S | 310   | 305   | 305   | U295S | U285R | U305S | C     | U350S | U345S |     |  |  |
| 7       | 345   | U355S | U350S | U340S | 345   | 290   | 295   | U300S | U300S | 300   | 340   | 360   | 340   | 345   | 305   | 305   | U300R | 300   | U290S | 300   | A     | U365S | A     | F     |     |  |  |
| 8       | U330S | U360S | U350S | U350S | 345   | 295   | 255   | 255   | 315   | 300   | 305   | 345   | 345   | 320   | 310   | 305   | 315   | U315S | U300S | 295   | U280C | U360S | U340S | S     |     |  |  |
| 9       | U350S | U350S | U345F | U340F | U330S | 295   | 345   | 330   | 300   | U345R | U370R | 355   | 345   | 345   | 345   | 330   | 315   | 310   | U270S | U290S | U325S | S     | S     | U360S |     |  |  |
| 10      | U345S | 345   | U330S | U370S | 345   | 285   | 330   | U345S | U310S | 325   | A     | R     | A     | 350   | 320   | 310   | 300   | 290   | U270S | U280S | U340S | U345S | U395S | U320S |     |  |  |
| 11      | U355S | U350S | 340   | U335S | 340   | 300   | 295   | 300   | 320   | 315   | 330   | U310S | U305S | 320   | 320   | 325   | A     | A     | U295S | U315S | U300S | U300S | U330R | U315S |     |  |  |
| 12      | S     | S     | U300S | 345   | 305   | 295   | U285S | 300   | 325   | 325   | 330   | 350   | 330   | 330   | 330   | 330   | 320   | 315   | 290   | U305S | S     | S     | S     | S     |     |  |  |
| 13      | U340S | U340S | 400   | 385   | U350S | A     | A     | 315   | U285S | 315   | 330   | 315   | U315S | U350S | U345S | 315   | U305S | 305   | A     | U290S | S     | A     | S     | A     |     |  |  |
| 14      | U340S | 365   | 360   | 350F  | U335F | 275   | U280R | 290   | R     | U280R | U310R | R     | U315R | U315R | 295   | 300   | 335   | U325S | U310S | 300   | U295R | 305   | U325S | 325   |     |  |  |
| 15      | 325   | 360   | 380   | 370F  | 345F  | 390   | 320   | U275R | U330R | 335   | U315R | 330   | U350R | 340   | R     | U315R | U340R | U320R | U280R | 345   | R     | R     | S     | U335S |     |  |  |
| 16      | C     | 325   | 345   | 365   | 360   | 370   | 375   | U350R | U430R | U330R | U360R | 365   | U300R | 290   | 330   | U325R | U305R | U260R | 290   | R     | R     | R     | R     | U295S |     |  |  |
| 17      | U345F | U350F | F     | U330F | 305F  | 315   | 305   | U300S | U340R | G     | U295R | G     | U370R | U300S | 295   | U295S | U330S | U290S | S     | U320S | U300S | U315S | U290S | U345S |     |  |  |
| 18      | A     | U365F | U350F | U390F | 355   | U300S | A     | G     | U355S | R     | R     | R     | U340R | U345R | C     | C     | U290S | U290S | 290   | 290   | A     | U375S | A     | U340S |     |  |  |
| 19      | 315   | A     | A     | A     | 355F  | 340   | U310S | 300   | A     | 355   | U320R | 350   | R     | 340   | A     | U310S | 305   | 300   | A     | A     | A     | U400S | U380F | U380F |     |  |  |
| 20      | A     | U350F | U360F | U300F | U350R | 340   | A     | 350   | 360   | C     | C     | C     | C     | C     | C     | C     | C     | C     | 290   | 280   | 270   | S     | A     | U305S | A   |  |  |
| 21      | U340S | 320   | 330   | 300N  | 300   | 290   | U260S | 290   | A     | A     | 300   | U305S | S     | U300S | 300   | U290S | U300S | U300S | U275S | U315S | 305   | U310S | U320S | 340   |     |  |  |
| 22      | 325   | 330   | 325   | 340   | 300   | 310   | 310   | U345S | 345   | 290   | 300   | 305   | U355R | R     | 300   | 300   | U300S | U285S | 300   | 350   | U300S | U300S | U300S | 300   |     |  |  |
| 23      | 335   | 345   | 350   | U375S | 375   | 305   | U295R | C     | G     | 415   | 315   | U290R | U300S | 300   | 340   | 300   | U275S | 295   | 290   | U285S | U345S | U360S | U330S | U350S |     |  |  |
| 24      | 350   | 350   | 340   | 360   | 335   | 300   | G     | A     | G     | R     | S     | S     | U340S | U330S | 370   | 315   | 300   | A     | A     | U295S | S     | U345S | A     | U335S |     |  |  |
| 25      | 290   | U300S | A     | U350N | U340S | 325   | A     | G     | U350R | G     | G     | G     | U335S | A     | 300   | G     | 345   | A     | 325   | A     | 300   | 305   | U325S | A     |     |  |  |
| 26      | 350   | U340S | 350F  | A     | 300   | 300   | G     | U305S | A     | A     | A     | A     | 325   | A     | A     | A     | 310   | A     | A     | A     | U300S | U370S | F     | S     |     |  |  |
| 27      | U325S | 340   | U310F | 360F  | U310F | 320   | 295   | 300   | A     | A     | U350R | 360   | 300   | U300R | U320S | A     | A     | U295S | U285S | U270S | U320S | 340   | 350   | U320S |     |  |  |
| 28      | U325S | U340S | 360   | 340   | 300   | 305   | 290   | 300   | 260   | 290   | 320   | U350S | U300S | G     | U355S | 340   | 300   | 310   | A     | A     | 290   | A     | S     | U340S |     |  |  |
| 29      | F     | S     | U350S | U340F | U350F | 350   | 340   | A     | A     | 305   | 390   | U340S | G     | 340   | 310   | 355   | A     | U305S | 300   | 300   | 295   | 300   | 330   | 350   |     |  |  |
| 30      | 355   | 310   | 330   | 325   | 295   | 320   | U340R | 350   | 360   | A     | A     | A     | A     | G     | G     | G     | A     | A     | S     | A     | A     | A     | 325   | U350S |     |  |  |
| 31      | 405   | 355   | U375S | 360   | 375N  | 310   | 355   | A     | A     | A     | 340   | G     | U370S | 360   | U315S | C     | C     | 300   | 300   | U305S | 310   | 350   | U335S | U320S |     |  |  |
| Медиана | 345   | 350   | 350   | 350   | 345   | 305   | 300   | 300   | U320R | 305   | 325   | 340   | U330R | 330   | 315   | 310   | 305   | 300   | U290S | U295S | U300S | U330S | U330S | U340S |     |  |  |
| Учтено  | 26    | 28    | 28    | 29    | 31    | 30    | 24    | 22    | 20    | 21    | 24    | 20    | 25    | 25    | 25    | 24    | 25    | 26    | 23    | 25    | 19    | 20    | 21    | 24    |     |  |  |

Пробег частоты от 1.0 МГц до 18.0 МГц 20сек мин

Станция автоматическая  
(ручная, автоматическая)

Типы Es Май 1974г  
(характеристика) (единицы) (месяц) (год)

Академия Наук КазССР  
(институт)

Станция Аома-Ата  
Долгота 76°55'E широта 43°15'N

ИОНОСФЕРНЫЕ ДАННЫЕ  
поясное время 75°E

Кем составлена Милютиной  
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       | f1 |    | f1 | f1 | f1 |      | h1 | C1 | C2 | C1 | C2 | C1   | C1   | C1 | C1   | C1 | C2 | C4   | C2 | e4   | e3 | f2 | f3 | f1 |
| 2       | f2 | f1 | f1 |    |    | C1   | C1 | C1 | C1 | C1 | C1 | C1   |      |    |      |    |    | C1   | C3 | C2   |    | f1 | f1 | f1 |
| 3       | f2 |    |    |    |    | C1   | C2 | C2 | C2 | C1 | C1 | C1   |      | C1 | C1   |    |    | C1   | C1 | C2   | f2 | f3 | f2 | f1 |
| 4       | f2 | f1 |    | f1 |    |      | C1 | C1 | C2 | C1 | C1 | C1   | C2   | C1 | C1   | e1 | e1 | C1   | C2 | C2   | e3 | f2 | f2 | f2 |
| 5       | f4 | f2 | f2 | f1 |    | e1   | C1 | C2 | C3 | C2 | C2 | C1   | C1   | C2 | C2   | C1 | C1 | C2   | C2 | C3   | f2 | f4 | f1 | f2 |
| 6       | f1 |    |    |    |    | C2   | C2 | C2 | C2 | C2 | C2 | C1   | C1   | C1 | C1   | C1 | C1 | C1   | C2 | C2   | e2 | f3 | f2 | f4 |
| 7       | f1 | f1 | f2 |    |    |      | e1 | C2 | C1 | C1 | C2 | C2   | C1   | C1 | C2   | C2 | C2 | C2   | C3 | C2   | e4 | f2 | f2 | f2 |
| 8       |    |    | f2 | f1 | e2 | e1   | C1 | C1 | C2 | C2 | C1 | C2   | C2   | C2 | C1   | h1 |    | C1   | C2 | e3   | f3 | f2 | f2 | f2 |
| 9       | f1 |    | f2 | f2 |    |      | C1 | C2 | C2 | C1 | C1 | C1   | C1   | C1 | C1   | C1 | C1 | C2   | C1 | e2   | e2 | f3 | f2 | f3 |
| 10      |    | f1 |    | f2 | f2 | e2   | e2 | C3 | C2 | C2 | C2 | C2   | C2   | C2 | C2   | C2 | C2 |      |    | h1e1 | e2 | f2 | f4 | f1 |
| 11      | f2 | f2 | f2 | f2 | f2 | h1   | h1 | C2 | C2 | C2 | C2 | C1   | C1   | C2 | C2   | C2 | C2 | C2   | e2 | e2   | e1 | f2 | f2 | f3 |
| 12      |    |    |    |    |    | h1   | h1 | C1 | C1 | C1 | C1 | C1   | C1   | C1 |      |    | h1 | C1   | C2 | e3   | e2 | f2 | f2 | f1 |
| 13      | f2 | f2 | f2 | f2 | f2 | C2   | C2 | C2 | C1 | C1 | C2 | C2   | C2   | C2 |      | C1 | C2 | C2   | C3 | C1   | e1 | f2 | f2 | f2 |
| 14      | f2 | f2 | f1 |    |    | C2   | C3 | C2 | C1 | C1 | C1 | C1   | C1   | C2 |      | C1 | C1 | C1   | C2 | C2   | e2 | f2 | f3 | f2 |
| 15      | f2 | f1 | f1 | f2 | f2 | C2   | C2 | C1 | C1 | C2 | C2 | C1h1 | C1   | C1 | C1   | C1 | C1 | h1C1 | C2 | C1   | e1 | f2 |    |    |
| 16      |    |    |    |    | e2 | C1   | C1 | C1 | C2 | C2 | C2 | C1   | C1   |    |      |    |    | C1   | C2 | C2   | e2 | f1 | f2 |    |
| 17      | f2 |    |    |    |    |      | C2 | C1 | C1 | C2 | C1 | C1   | C1   | C1 | C1   | C1 | C2 | C2   | C3 | e2   | e2 | f2 | f2 | f2 |
| 18      | f4 | f3 | f1 | f2 |    | C2   | C2 | C1 | C2 | C1 | C1 | C2   | C2   | e1 |      |    | C1 | C1   | C1 | e2   | f2 | f3 | f2 | f3 |
| 19      | f2 | f3 | f3 | f2 | e2 | C1   | C2 | C3 | C2 | C2 | C2 | C1   | C1   | C2 | C2   | C2 | C2 | C2   | C2 | C3   | f3 | f4 | f2 | f2 |
| 20      | f2 | f2 | f2 | f1 | f2 | C1   | C2 | C2 | C2 |    |    |      |      |    |      |    |    | C1   | C2 | e2   | f2 | f2 | f3 | f4 |
| 21      | f2 | f2 |    |    |    |      | C1 | C2 | C2 | C2 | C1 | C1   | C2   | C2 | C2   |    |    |      | h1 | C1   | e2 | f2 | f3 | f2 |
| 22      | f1 | f1 |    |    |    | C1   | C2 | C1 | C2 | C2 | C2 | C1   | C1   |    | e1   | e1 | e1 | C1e1 | e2 | C1e1 | e2 | f3 | f2 | f2 |
| 23      |    | f2 | f1 |    |    |      | C2 | C2 | C2 | C2 | C2 | C1   | C1   |    | C1   | C1 |    |      | C1 | C1   | e2 | f2 | f1 | f2 |
| 24      | f1 |    |    | f1 |    |      | C3 | C2 | C1 | C1 | C1 | C1   | C1   | C2 | C2   | C1 | C2 | C3   | C3 | C5   | e2 | f2 | f3 | f2 |
| 25      | f2 | f2 | f2 | f1 | e1 | C1   | C4 | C1 | C3 | C2 | C1 |      | C1   | C2 | C2   | C1 | C1 | C2   | C4 | C3   | e4 | f3 | f3 | f3 |
| 26      | f3 | f5 | f3 | f4 | f2 | C2e1 | C1 | C2 | C2 | C2 | C2 | C2   | C1   | C2 | C2e1 | C2 | C1 | C4   | C3 | C3   | e3 | f5 | f2 | f3 |
| 27      | f3 | f2 | f3 | f2 |    | C1   | C2 | C2 | C2 | C2 | C2 | C1   | C2   | C2 | C2   | C2 | C3 | C2   | C2 | C5   | f3 | f2 | f4 | f2 |
| 28      | f3 | f2 | f3 | f2 | e2 | C2   | C1 | C2 | C2 | C2 | C2 | C1   | C1   | C2 | C2   | C2 | e2 | C1   | C4 | C2   | e4 | f2 | f2 | f2 |
| 29      | f1 | f2 | f4 |    | e2 | C3   | C2 | C2 | C2 | C2 | C2 | C1   | C1h1 | C2 | C2   | C2 | C2 | C2   | C5 | C2   | e4 | f2 | f2 | f2 |
| 30      | f3 | f2 | f2 | f3 | e2 | C2   | C2 | C2 | C1 | C2 | C2 | C2   | C2   | C1 | C1   | C1 | C2 | C2   | C3 | C4   | f4 | f2 | f4 | f2 |
| 31      | f2 | f2 | f3 | f2 | e2 | C1   | C2 | C2 | C2 | C2 | C1 | C1   | C1   | C1 | C1   |    |    | C2   | C2 | C4   | e1 |    | f1 | f2 |
| Медiana |    |    |    |    |    |      |    |    |    |    |    |      |      |    |      |    |    |      |    |      |    |    |    |    |
| Учено   |    |    |    |    |    |      |    |    |    |    |    |      |      |    |      |    |    |      |    |      |    |    |    |    |

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