

МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД
1957-1958-1959

ИНСТИТУТ ЗЕМНОГО МАГНЕТИЗМА, ИОНОСФЕРЫ И
РАСПРОСТРАНЕНИЯ РАДИОВОЛН АН СССР

МАТЕРИАЛЫ ИОНОСФЕРНЫХ
ИССЛЕДОВАНИЙ

Алма-Ата

Alma-Ata

декабрь

1959

December

Москва

№ 2 Мгн Декабрь 1959

Министерство Связи

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Ком. составлена Кустовой

Долгота 76°55'E широта 43°15'N

полосное время 75°E

И.Ф. подсчитана Кустовой

| Час | 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 | 3.4 | 3.5 | 3.7 | 3.3 | 3.3 | A | A.U93S | 11.3 | 11.5 | 12.5 | 12.9 | 13.3 | 13.5 | 13.0 | 12.2 | 11.7 | 9.7 | 8.4 | 5.0 | 4.8 | 4.4 | 4.3 | 4.1 | | |
| 2 | 3.7 | 3.8 | 3.9 | 4.0 | 4.0 | 3.9 | 3.3 | 6.1 | 10.6 | 11.7 | 12.5 | 13.0 | 13.2 | 13.2 | 13.2 | 11.2 | 9.3 | 7.5 | 5.8 | 4.8 | 4.1 | 4.2 | 4.4 | | |
| 3 | 4.5 | 4.3 | 4.0 | 3.9 | 3.8 | 3.8 | 3.9 | 5.9 | 10.1 | 12.7 | 14.0 | 13.8 | 13.1 | 12.4 | 13.1 | 12.2 | 11.2 | 10.4 | 7.4 | 5.9 | 6.2 | 5.1 | 5.4 | 4.9 | |
| 4 | 4.7 | 3.8 | 3.6 | 3.6 | 13.6C | 4.5 | 2.5 | 5.7 | 9.0 | 11.5 | 12.8 | 13.5 | 12.4 | 11.9 | 12.4 | 12.3 | 11.3 | 8.8 | 6.9 | 5.5 | 4.4 | 3.7 | 3.7 | 13.4C | |
| 5 | 3.4 | 3.6 | 3.3 | | C | C | C | C | C | C | 13.3 | 13.5 | 11.7 | 11.5 | 10.3 | 10.9 | 9.9 | 10.2 | 6.6 | 4.5 | 3.5 | 3.1 | 2.7 | 2.9 | |
| 6 | 2.9 | 2.5 | 2.4 | 12.8C | 13.0A | 3.0 | 3.4 | 5.8 | 9.1 | 11.3 | 12.8 | 13.4 | 12.2 | 12.2 | 10.8 | 10.7 | 9.9 | 8.6 | 7.0 | 5.3 | 4.4 | 3.5 | 3.5 | 3.5 | |
| 7 | 3.6 | 13.5C | 3.6 | 3.4 | 3.6 | 3.1 | 2.7 | 5.4 | 9.1 | 11.0 | 13.8 | 12.4 | 11.4 | 11.5 | 12.0 | 12.0 | 10.8 | 8.2 | 6.5 | 5.8 | 3.5 | 2.9 | 3.0 | 3.0 | |
| 8 | 3.7 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.7 | 6.0 | 8.6 | 10.2 | 12.1 | 13.0 | 12.0 | 11.3 | 11.6 | 11.0 | 9.8 | 8.2 | 6.7 | 6.4 | 4.3 | 2.6 | 3.0 | 3.1 | |
| 9 | 3.3 | 3.4 | 3.4 | 3.5 | 3.7 | 3.8 | 4.1 | 5.6 | 8.8 | 9.3 | 11.3 | 12.1 | 11.0 | 11.3 | 11.0C | 10.3 | 10.2 | C | C | C | C | C | C | C | |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 9.5 | 7.6 | 6.8 | 5.2 | 4.1 | 2.9 | 3.0 | 3.0 | |
| 11 | 3.3 | 3.4 | 3.3 | 3.4 | 3.3 | 3.8 | 3.4 | 5.3 | 7.8 | 9.0 | 11.2 | 11.3 | 9.8 | 10.1 | 11.4 | 11.0 | 7.9 | 6.5 | 6.8 | 4.1 | 3.4 | 2.8 | 3.0 | 3.0 | |
| 12 | 3.3 | 3.1 | 13.5S | 3.8 | 3.7 | 3.6 | 3.3 | 5.1 | 8.1 | 9.2 | 12.0 | 13.2 | 11.9 | 10.6 | 11.0 | 10.6 | 8.1 | 7.5 | 7.3 | 4.9 | 3.1 | 2.5 | 3.1 | 3.3 | |
| 13 | 3.0 | 3.2 | 3.3 | 3.3 | 3.2 | 3.1 | 3.3 | 4.9 | 8.2 | 9.8 | 12.9 | 12.3 | 10.6 | 11.9 | 10.5 | 10.5 | 9.9 | 8.5 | 7.0 | 5.0 | 3.6 | 2.3 | 3.1 | 3.3 | |
| 14 | 3.3 | 13.3F | 4.1 | 3.3 | 3.0 | 13.1C | 3.8 | 14.8C | 7.2 | 10.0 | 11.9 | 12.7 | 12.8 | 11.5 | 11.3 | 10.4 | 10.5 | 8.9 | 6.9 | 3.8 | 3.5 | 3.4 | 3.5 | 3.8 | |
| 15 | 4.0 | 4.0 | 4.0 | 4.0 | 4.8 | 4.8 | 5.0 | 5.3 | 8.6 | 10.7 | 11.8 | 12.1 | 10.3 | 11.7 | 12.4 | 10.4 | 7.9 | 7.0 | 5.4 | 3.6 | 3.2 | 3.4 | 3.9 | 14.2C | |
| 16 | 4.4 | 4.6 | 4.8 | 5.1 | 4.1 | 4.1 | 3.9 | 5.5 | 8.7 | 11.5 | 12.5 | 13.5 | 11.0 | 11.0 | CU11.0C | 10.89C | 7.2 | 5.8 | 4.7 | 3.4 | 13.1A | 13.2A | 3.3 | | |
| 17 | 13.3C | 3.5 | 3.6 | 3.4 | 3.3 | 3.3 | 2.9 | 5.0 | 8.8 | 11.9 | 12.8 | 12.4 | 10.8 | 9.8 | 10.6 | 10.5 | 9.4 | 7.2 | 5.7 | 3.5 | 2.5 | 2.4 | 2.7 | 3.0 | |
| 18 | 3.1 | 3.2 | 3.0 | 3.1 | 3.3 | 3.7 | 3.2 | 4.5 | 7.8 | 10.4 | 12.2 | 12.9 | 11.8 | 11.4 | 12.1 | 11.0 | 8.9 | 7.4 | 6.4 | 14.1C | 2.9 | 2.6 | 3.1 | 3.3 | |
| 19 | 3.5 | 3.8 | 3.8 | 3.6 | 3.4 | 3.6 | 3.8 | 4.7 | 7.8 | 10.6 | 12.1 | 11.4 | 10.7 | 11.1 | 11.0 | 10.3 | 8.8 | 8.5 | 6.0 | 3.9 | 3.1 | C | C | C | |
| 20 | 3.7 | 3.6 | 3.6 | 13.6C | 13.4C | 3.2 | 2.8 | 4.3 | 9.1 | 11.7 | 11.9 | 11.0 | 9.6 | 10.7 | 10.7 | 10.3 | 7.9 | 7.7 | 6.5 | 4.6 | 3.6 | 2.9 | 3.2 | 13.1S | |
| 21 | 13.4C | 3.6 | 3.9 | 3.8 | 3.9 | 3.8 | 3.1 | 4.7 | 8.9 | 11.4 | 12.6 | 10.9 | 10.6 | 11.0 | 10.6 | 9.3 | 8.6 | 7.3 | 7.4 | 15.0C | 3.3 | 13.2A | 2.9 | 2.9 | |
| 22 | 3.0 | 3.5 | 3.5 | 3.5 | 3.3 | 3.5 | 3.6 | 5.0 | 8.9 | 11.6 | 11.0 | 10.3 | 9.6 | 11.9 | 10.9 | 9.8 | 9.5 | 8.3 | 6.6 | 4.4 | 2.9 | 3.0 | 13.1C | 3.3 | |
| 23 | 3.4 | 3.8 | 3.6 | 13.7S | 13.6S | 3.7 | 3.9 | 5.6 | 8.9 | 10.4 | 11.5 | 10.3 | 9.9 | 11.2 | 11.3 | 11.1 | 10.3 | 8.2 | 6.0 | 4.8 | 3.6 | 3.7 | 3.4 | 13.3C | |
| 24 | 3.3 | 3.5 | 3.9 | 4.2 | 3.0 | 2.4 | 2.4 | 4.7 | 10.1 | 12.8 | 11.3 | 11.0 | 11.7 | 12.0 | 11.7 | 11.9 | 12.0 | 10.4 | 8.8 | 5.6 | 4.3 | 3.7 | 3.3 | 3.6 | |
| 25 | 2.9 | 2.8 | 3.1 | 4.3 | 4.2 | 4.5 | 3.7 | 4.8 | 8.1 | 12.4 | 13.4 | 12.0 | 13.3 | 13.8 | 12.9 | 10.9 | 11.1 | 9.0 | 8.0 | 6.3 | 3.9 | 3.3 | 3.3 | 3.6 | |
| 26 | 3.6 | 3.6 | 3.7 | 3.6 | 3.8 | 3.7 | 3.4 | 4.6 | 8.9 | 12.5 | 13.6 | 12.0 | 11.0 | 10.6 | 11.6 | 10.8 | 10.9 | 9.7 | 7.4 | 5.1 | 4.3 | 4.0 | 3.6 | 3.7 | |
| 27 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.5 | 3.3 | 5.1 | 9.3 | 13.1 | 13.6C | 12.3 | 13.3 | 13.2 | 13.3 | 12.0 | 10.8 | 9.3 | 8.2 | 6.2 | 4.9 | 4.3 | 3.3 | 3.3 | |
| 28 | 3.5 | 3.7 | 3.5 | 3.7 | 13.6A | 2.8 | 2.5 | 4.0 | 8.9 | 13.3 | 13.4 | 13.0 | 12.5 | 13.0 | 12.6 | 12.0 | 11.8 | 9.9 | 7.4 | 5.8 | 4.3 | 4.3 | 3.8 | 3.9 | |
| 29 | 4.2 | 4.0 | 4.4 | 4.5 | 4.1 | 3.7 | 3.7 | 4.8 | 9.8 | 12.0 | 13.3 | 12.8 | 11.9 | 11.3 | 12.0 | 11.5 | 10.3 | 9.5 | 5.9 | 4.2 | 13.2A | 3.6 | 3.9 | 4.0 | |
| 30 | 3.8 | 4.3 | 4.3 | 3.9 | 13.4F | 3.9 | 13.7F | 14.9A | 8.5 | 10.1 | 11.8 | 13.3 | 12.3 | 11.0 | 11.5 | 9.3 | 10.9S | 8.4 | 5.3 | 3.9 | 3.2 | 3.3 | 3.4 | 3.4 | |
| 31 | 3.6 | 3.7 | 3.7 | 3.9 | 4.1 | 3.7 | 2.9 | 4.2 | 7.6 | 10.6 | 11.0 | 11.7 | 10.9 | 10.7 | 10.3 | 9.8 | 9.5 | 8.8 | 10.6S | 10.3S | 3.2 | 3.5 | 3.8 | 3.8 | |
| Медиа | 3.3 | 3.7 | 3.4 | 3.8 | 3.9 | 3.9 | 3.3 | 4.0 | 3.2 | 3.8 | 4.2 | 5.4 | 8.2 | 9.1 | 10.3 | 12.1 | 11.8 | 13.3 | 11.2 | 13.0 | 10.2 | 10.4 | 11.9 | 8.9 | 10.9 |
| Учено | 3.4 | 3.6 | 3.6 | 3.6 | 3.6 | 3.7 | 3.4 | 5.0 | 8.9 | 11.4 | 12.5 | 12.4 | 11.7 | 11.4 | 11.5 | 10.9 | 9.9 | 8.5 | 6.8 | 5.0 | 3.6 | 5.3 | 3.3 | 3.3 | |
| | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | |
| | 0.4 | 0.4 | 0.5 | 0.5 | 0.7 | 0.6 | 0.8 | 0.9 | 0.9 | 1.7 | 1.5 | 1.3 | 1.7 | 1.0 | 1.6 | 1.5 | 2.0 | 1.7 | 1.3 | 1.5 | 1.1 | 0.8 | 0.8 | 0.7 | |

Пробег счеты от 10 Мгн до 180 Мгн 20 сек. м.м.

Станция АВТОМАТИЧЕСКАЯ
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 0.1 МГН

3.71 МГц ДЕКАБРЬ 1959
(характеристика) (единицы) (месяц) (год)

Министерство связи
(выс. ш.)

Станция

Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Ком составлена

Соловьевой

Долгота

76°55'E широта 43°15'N

поясное время

75°E

Ком подсчитана

Гусаковой

| 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 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | L | L | L | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 5 | | | | | | | | | | | L | L | L | 3.7 | | | | | | | | | | | |
| 6 | | | | | | | | | L | 4.0 | L | L | L | L | | L | | | | | | | | | |
| 7 | | | | | | | | | L | L | U4.0L | L | L | L | | | | | | | | | | | |
| 8 | | | | | | | | | | L | L | L | 3.9 | | | | | | | | | | | | |
| 9 | | | | | | | | | | L | | | | L | | | L | | | | | | | | |
| 10 | | | | | | | | | | C | C | C | C | C | C | C | | | | | | | | | |
| 11 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 12 | | | | | | | | | | | L | L | L | L | | | | L | | | | | | | |
| 13 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | L | | | | | | | | | | | |
| 15 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 16 | | | | | | | | | | | L | L | L | L | A | C | | | | | | | | | |
| 17 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 18 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 19 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 20 | | | | | | | | | | | L | 4.0 | L | L | | | | | | | | | | | |
| 21 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 22 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 23 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 24 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 25 | | | | | | | | | | | | L | U4.0L | L | | | | | | | | | | | |
| 26 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 27 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 28 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 29 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 30 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Медиана | | | | | | | | | | | 4.0 | 4.0 | 4.0 | 3.7 | | | | | | | | | | | |
| Улучши | | | | | | | | | | | 1 | 2 | 2 | 1 | | | | | | | | | | | |

Пробег частоты от 10 МГц до 180 МГц 20 сек мин.

Станция автоматическая
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 0.1 МГц

5.Е МГц декабрь 1959

Министерство связи

Аом-Атв

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Соловьёвой

76°55' E широта 43°15' N

полное время 75° E

Кем подсчитана Кустовой

| Диа | 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 | | | | | | A | A | S | A | A | 3.30 | 3.50 | 2.70 | 2.10 | E 2.00B | | | | | | | | | |
| 2 | | | | | | E 2.20B | 2.30 | 2.90 | 3.20 | 3.30 | 3.30 | 3.20 | 3.20 | 3.00 | 2.70 | 2.10 | | | | | | | | |
| 3 | | | | | | E 1.60B | A | 2.90 | 3.10 | 3.20 | 3.20 | 3.00 | 2.70 | A | A E 1.50B | | | | | | | | | |
| 4 | | | | | | E 1.70B | A | A | A U 3.10R | U 3.20R | C | C | 2.90A | 1.80 | E 1.60B | E 1.60B | | | | | | | | |
| 5 | | | | | C | C | C | C | C | C | U 3.10R | U 3.20R | U 3.20R | 3.00 | 3.00 | 2.90 | 2.00 | E 1.60B | E 1.60B | E 1.60B | | | | |
| 6 | | | | | | | | A | 2.50 | 2.90 | U 3.00R | U 3.10R | U 3.10R | B | 3.10 | 2.70 | 2.00 | E 1.70B | E | | | | | |
| 7 | | | | | E | E | E E 1.60B | 2.30A | 2.90 | 3.00 | 3.30 | 3.30 | 3.10 | 3.00 | 2.60 | 2.10 | A | A | | | | | E 1.60B | |
| 8 | E 1.50B | E 1.50B | | | | E 1.20B | B 1.50B | E 1.70B | 2.40 | 2.90 | 3.00 | 3.20 | 3.10 | 3.45C | 3.00 | 2.70 | 2.00 | A | | | | | | |
| 9 | | | | | | E 1.70B | 2.40 | 2.90 | 3.00 | 3.05A | U 3.20R | 3.10 | U 3.00C | 2.70 | E 1.90C | C | C | C | C | C | C | C | C | C |
| 10 | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | A | E 1.80B | E 1.70B | E | E 1.30B | E 1.40B | A | E 1.60B |
| 11 | | | | | | E E 1.50B | E 1.30B | 1.70 | U 2.50R | 3.10 | 3.10 | 3.10 | 3.10 | 3.05 | 3.00 | 2.60 | E 2.10C | E 1.80B | | | | | | |
| 12 | | | | | | E | A | A | 1.80 | 2.50R | 3.00 | 3.10R | 3.10 | U 3.10R | 3.00 | 3.00 | 2.40A | 1.90 | A | E 1.70B | | | | |
| 13 | | | | | | E E 1.50B | E 1.80B | E E 1.50B | 2.30 | 2.80 | A | A | A | 3.10 | A | A | A | E 1.60B | E 1.50B | | | | | |
| 14 | | | | | | E 1.50B | E 1.70B | C E 1.40B | C E 1.60B | 2.40 | 2.80 | 2.90 | 3.10 | 3.00 | 3.00 | 2.50 | A | A | A | | | | | |
| 15 | | | | | | E 1.70B | E 1.40B | E 1.70B | E 1.70B | E 1.70B | E 1.40B | 2.20 | 2.90 | 3.00 | 3.00 | 2.90 | 2.40 | E 1.80B | A | | | | | |
| 16 | | | | | | | | A | 2.20 | A | A | A | 3.20 | A | C | E 3.00C | E 1.80C | A | | | | | | |
| 17 | | | | | | E 1.50B | E 1.50B | E 1.70B | E 1.70B | E 1.50B | E 1.60B | 2.40 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 2.50 | E 1.90B | E 1.60B | | | | |
| 18 | E 1.70B | E 1.60B | | | | E E 1.60B | E 1.70B | E | A | A | 2.30 | 2.80 | 3.00 | 3.10 | 3.10 | 3.00 | 2.90 | 2.40A | 2.00 | E 1.80B | E 1.60B | | | |
| 19 | E 1.40B | E 1.80B | E 1.40B | E 1.60B | | E | E E 1.70B | E 1.70B | A | 3.00 | 3.00 | U 3.10R | 3.10 | 3.00 | 2.80 | 2.40 | 1.90 | E 1.80B | | | | C | C | C |
| 20 | | | | | | E | E E 1.40B | 2.20A | 2.80 | 3.00 | 3.20 | 3.10 | U 3.00R | 3.00 | U 2.50R | 2.10 | A | A | | | | | | |
| 21 | | | | | | E 1.80B | E 1.70B | U 2.20R | 3.00 | 3.10 | U 3.20R | U 3.20R | U 3.10R | 3.00 | 2.50A | 2.00 | E 1.70B | E 1.70B | | | | | | |
| 22 | | | | | | E 1.50B | A | A | 3.00 | 3.05 | 3.20 | 3.20 | A | A | A | A | A | E 1.80B | | | | | | |
| 23 | | | | | | E E 1.60B | E E 1.80B | E 1.80B | U 2.40C | U 2.80R | A | 3.10 | A | A | U 2.90R | C | 2.20 | E 1.80B | E 1.80B | | | | | |
| 24 | | | | | | E | A | E | E 1.40 | 2.20A | 2.90 | 3.00A | 3.05A | U 3.10 | U 3.00A | 2.90 | 2.50A | 2.10 | E 1.60B | | | | | |
| 25 | | | | | | A | A E 1.60B | 2.40 | 2.90 | 3.00 | 3.00 | 3.10 | 2.90A | A | A | 2.00 | E | E | | | | | | |
| 26 | | | | | | E | E | E | E 1.50 | 2.30 | 2.80 | 3.00 | 3.00 | 3.10A | 3.10 | 3.00 | 2.70 | 2.20 | E 1.70B | E | E 1.50B | | | |
| 27 | | | | | | E 1.30B | E | E | E E 1.30B | U 2.30R | A | 3.00C | 3.15A | 3.15A | 3.05A | A | A | 2.20A | A | E 1.80B | | | | |
| 28 | | | | | | E | A | A | 2.15 | 2.80 | 3.00 | 3.10 | U 3.20A | 3.10 | 3.00 | 2.60 | 2.10 | 1.30 | | | | | | |
| 29 | | | | | | | | | A | U 2.20R | 2.80 | 3.00 | 3.20 | U 3.20A | 3.20 | 3.10C | U 2.10R | A | A | | | | | |
| 30 | | | | | | | | | E 1.80B | 2.30 | U 3.00R | 3.10 | U 3.20R | A | A | 3.00R | 2.60 | A | E 1.60B | E 1.50B | | | | |
| 31 | | | | | | E | E | E | E 1.40 | 2.30A | U 2.90R | 3.10 | A | A | A | U 3.00A | A | A | A | A | | | | |
| Медиана | E 1.50B | E 1.55B | E 1.35B | E 1.40B | E 1.50B | E | E 1.45B | E 1.60B | 2.30 | 2.90 | 3.00 | 3.10 | 3.10 | 3.05 | 3.00 | 2.60 | 2.00 | E 1.70B | E 1.60B | E | E 1.30B | E 1.40B | - | E 1.60B |
| Экстрем | 3 | 5 | 8 | 11 | 12 | 14 | 16 | 21 | 24 | 25 | 25 | 26 | 25 | 23 | 24 | 23 | 23 | 17 | 15 | 3 | 2 | 1 | | 2 |
| | | | | | | | | | 0.20 | 0.20 | 0.15 | 0.15 | 0.10 | 0.10 | 0.05 | 0.20 | 0.20 | | | | | | | |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек

Станция АВТОМАТИЧЕСКАЯ

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 0.05 МГц

ГоЕз Мгч Декабрь 1959

Министерство Связи

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Кустовой

Долгота 76°55'В широта 43°15'N

полевое время 75°E

Кем подсчитана Гусаковой

| 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 | E1.6B | B1.6B | E1.6B | E1.6B | E1.6B | J2.2X | J4.4X | J4.7X | G | 6.0 | J2.5X | 3.7 | 3.6 | G | G | 3.0 | G | G | E1.8B | J2.5X | E1.6B | E1.6B | E1.6B | E1.6B | |
| 2 | E1.6B | B1.6B | E1.6B | E1.6B | B1.6B | E1.6B | J2.0X | 2.6 | G | G | G | 4.0 | G | G | G | G | G | E1.6B | E1.6B | J2.7X | J2.3X | E1.6B | J2.3X | J2.6X | |
| 3 | E1.6B | B1.6B | E1.6B | B1.6B | E1.6B | J2.1X | J2.6X | J2.8X | J3.0X | G | G | G | J5.7X | J3.5X | 3.0 | J3.3X | 2.3 | G | E1.6B | E1.7B | E1.7B | E1.5B | E1.6B | | |
| 4 | E1.7B | E1.3B | B1.6B | B1.7B | C | J2.3X | B1.7B | G | J3.3X | 3.0 | 3.0 | G | G | G | G | 3.3 | 2.5 | 2.0 | G | E1.6B | E1.6B | E1.6B | E1.6B | E1.7B | |
| 5 | E1.6B | E1.7B | E1.6B | C | C | C | C | C | C | C | G | G | 3.0E | 3.0E | 3.0E | 3.2 | G | G | G | E1.4B | E1.5B | E1.7B | E1.7B | | |
| 6 | E1.6B | E1.6B | E1.5B | C | J2.8X | J5.6X | J2.2X | J2.3X | J3.4X | 3.0 | G | G | G | G | G | G | J2.3X | G | G | E1.3B | E1.7B | E1.7B | E1.4B | | |
| 7 | E1.5B | C | E | E | G | G | G | G | 3.3 | 2.4E | G | 4.0 | 2.8E | 2.5E | 2.5E | 3.0 | 3.0 | J3.3X | J2.4X | J2.3X | E1.5B | E1.3B | E | F | |
| 8 | G | G | E1.6B | E1.6B | E1.8B | F | F | F | F | F | F | 3.6 | G | G | G | J2.5X | J3.8X | J2.3X | E1.2B | E1.7B | E1.5B | E1.6B | E1.6B | | |
| 9 | E1.5B | E1.6B | E1.5B | E | E1.6B | E1.6B | E1.6B | G | G | G | G | J4.4X | G | G | G | 3.1 | G | C | C | C | C | C | C | C | |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | J3.3X | G | G | G | G | F | J1.8X | F | |
| 11 | E1.6B | J2.3X | E1.7B | E1.4B | F | G | G | G | G | 2.7E | G | G | G | 3.4 | G | 3.1 | G | G | E1.7B | E1.6B | E1.2B | J2.3X | J3.5X | E1.7B | |
| 12 | E1.8B | E1.6B | E1.6B | E | G | J2.1X | J2.4X | 2.0 | G | G | G | G | G | G | 2.5E | 2.9 | G | J2.3X | G | E1.7B | E1.2B | E1.7B | E1.5B | E | |
| 13 | E1.6B | G | G | G | G | G | G | G | G | G | 3.2 | 4.2 | 4.0 | G | J2.2X | J4.1X | 2.6 | G | J4.5X | J2.3X | J9.3X | J2.4X | J3.4X | | |
| 14 | E1.6B | E1.7B | E1.6B | G | F | C | F | C | F | F | F | G | G | G | G | J3.3X | 2.0 | J3.3X | J4.5X | J2.3X | E1.6B | J2.6X | J2.3X | | |
| 15 | E1.7B | E1.6B | F | G | G | G | G | G | G | 3.0 | J3.3X | G | G | G | G | 2.8 | G | J2.3X | E1.8B | J2.8X | 3.5 | J2.6X | E1.8B | C | |
| 16 | E1.6B | E1.6B | 2.5 | E1.6B | E1.6B | E1.6B | E1.6B | 2.6 | G | J3.5X | 3.5 | 3.5 | 3.1E | J7.8X | C | G | G | 2.5 | E1.9B | J2.3X | J2.2X | J3.8X | J5.6X | J3.5X | |
| 17 | C | E1.8B | F | G | F | G | F | G | G | G | G | G | J7.8X | G | G | 3.0 | J2.3X | G | E1.5B | E1.8B | E1.7B | E1.7B | E | E | |
| 18 | G | G | G | G | G | G | J3.3X | J2.3X | 3.0Y | F | G | 2.9E | G | J3.3X | G | J3.3X | 3.0Y | 3.0Y | G | E1.7B | E1.9B | E1.8B | E | E | |
| 19 | G | G | G | G | G | G | G | G | G | 4.0Y | G | F | F | G | G | 3.0 | G | G | E1.9B | E1.3B | E1.8B | C | C | C | |
| 20 | J2.3X | J1.7X | J1.9X | C | C | F | F | F | G | 2.3 | G | G | 3.0E | 3.0E | G | 3.0 | G | 3.0 | J2.4X | J2.3X | E1.4B | E1.8B | E1.6B | E1.8B | E1.8B |
| 21 | C | E1.7B | E | E1.3B | E1.3B | B1.5B | F | F | F | G | G | F | G | G | G | 3.0 | G | G | C | E1.5B | J5.2X | J3.3X | J2.3X | | |
| 22 | E1.7B | E1.6B | E1.3B | E | E | E | G | J2.3X | J3.3X | F | G | J3.4X | G | J7.8X | J3.3X | 3.0 | J3.3X | J2.5X | G | E1.8B | E1.7B | J1.9X | C | E1.5B | |
| 23 | E1.7B | E1.9B | E1.5B | G | G | G | G | G | G | G | 3.1 | G | 3.8 | J4.4X | G | G | G | J8.0X | 3.2Y | J4.3X | E | E | B | C | |
| 24 | E | E1.3B | F | J2.6X | J4.5X | G | F | F | 3.0 | 3.2 | 4.0 | 4.0 | 3.7 | 4.0 | J5.6X | 2.8 | J4.3X | G | E1.9B | E1.7B | E1.5B | E | E | J2.3X | |
| 25 | J6.3X | J3.3X | J4.6X | J3.6X | J2.4X | J3.3X | J2.7X | G | G | G | G | G | 3.3 | 3.1 | 3.1 | J3.3X | G | G | J3.3X | J4.3X | J2.5X | E1.2B | J3.3X | | |
| 26 | J1.8X | G | G | G | E | E | F | G | F | 3.0 | J3.3X | 3.3 | J4.5X | 3.1 | J3.3X | 3.0 | J2.3X | F | G | G | F | E | J2.3X | J2.6X | |
| 27 | E1.6B | E1.7B | G | G | G | G | G | G | G | 3.1 | C | 4.3 | 3.5 | 4.2 | 4.0 | J8.1X | 3.0 | J3.3X | J5.3X | J7.5X | 4.0 | E1.4B | E1.6B | E | |
| 28 | E | E | E1.4B | 2.0 | J5.3X | J9.3X | J5.3X | J2.5X | G | F | G | G | 3.6 | 3.0E | G | 3.0 | G | G | E1.6B | J3.3X | E1.8B | E1.4B | E1.5B | E1.6B | |
| 29 | E1.7B | E1.5B | E | E | E1.6B | J2.4X | J2.6X | J2.5X | J2.3X | 3.0 | F | G | 3.6 | F | G | G | G | J9.8X | J8.3X | J3.6X | J4.6X | E1.7B | J3.5X | J3.3X | |
| 30 | J2.3X | E1.7B | E1.8B | E | E1.5B | E | E | G | G | G | G | 3.8 | 3.8 | 4.0 | G | 3.1 | J3.3X | G | G | J2.9X | E | E1.2B | E1.7B | E | |
| 31 | E1.4B | E | G | G | G | G | G | G | G | 2.4 | F | G | 3.6 | 3.7 | J4.5X | 4.0 | 3.3 | J5.3X | J3.5X | J3.0X | J4.3X | J3.0X | E1.6B | E1.6B | |
| Медиана | E1.6B | E1.6B | E1.5B | G | G | G | G | G | G | G | G | G | 3.0 | 2.5 | G | 3.0 | 2.3 | 1.8 | E1.6B | E1.8B | E1.7B | E1.6B | E1.6B | E1.6B | |
| Угнетен | 28 | 29 | 30 | 27 | 27 | 28 | 29 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 29 | 30 | 31 | 30 | 30 | 29 | 30 | 29 | 28 | 27 | |

Пробег частоты от 1.0 Мгч до 18.0 Мгч 20 сек
 Примечание: точность отсчета 0.1 Мгч

Станция автоматическая
 (Угнетен, автоматическая)

21.8 20.9 20.8

88Es МГц декабрь 1959

Министерство связи

Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Соловьевой

76°55'E широта 43°15'N

полное время 75°E

Кем подсчитана Гусаковой

| Дни | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1 | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | A | A | 4.5 | G | 5.5 | 3.3 | 3.7 | 3.6 | G | F | G | F | E1.8B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | |
| 2 | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.7B | G | F | G | G | G | F | F | F | F | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | |
| 3 | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | G | 2.8 | G | G | G | F | 2.8G | G | 2.0 | 2.3 | G | E1.6B | E1.7B | E1.7B | E1.5B | E1.5B | E1.5B | |
| 4 | E1.7B | E1.3B | E1.6B | E1.7B | C | C | 1.7 | E1.7B | G | 2.6 | 3.0 | 3.0 | G | G | G | 3.3 | 2.1 | F | G | E1.6B | E1.6B | E1.6B | E1.6B | E1.7B | |
| 5 | E1.6B | E1.7B | E1.6B | C | C | C | C | C | C | C | C | G | F | 2.8G | 2.8G | 2.8G | G | F | G | E1.4B | E1.5B | E1.7B | E1.7B | E1.7B | |
| 6 | E1.6B | E1.6B | E1.5B | C | A | E | 2.0 | 2.1 | 2.2G | F | F | F | F | F | F | F | F | G | F | E1.3B | E1.7B | E1.7B | E1.4B | E1.4B | |
| 7 | E1.5B | C | E | F | F | F | F | F | 2.5 | 2.4G | G | 2.9G | 2.9G | 2.5G | 2.3G | 2.0G | F | 2.2 | 1.8 | E1.7B | E1.5B | E1.3B | E | G | |
| 8 | G | E1.6B | E1.6B | E1.6B | F | G | G | G | G | G | G | G | G | G | G | G | G | 2.0 | 1.8 | E1.2B | E1.7B | E1.5B | E1.6B | E1.6B | |
| 9 | E1.5B | E1.6B | E1.5B | E1.6B | E1.6B | E1.6B | G | G | G | G | 3.2 | F | F | F | F | F | C | C | C | C | C | C | C | C | |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 2.2 | G | G | F | F | F | 1.7 | G | |
| 11 | E1.6B | E1.6B | E1.7B | E1.4B | F | C | G | F | F | 2.7G | F | F | G | C | C | F | F | E1.7B | E1.6B | E1.2B | E1.7B | E1.5B | E1.7B | E1.7B | |
| 12 | E1.8B | E1.6B | E1.6B | E | G | 1.7 | 1.7 | F | F | F | G | G | F | G | 2.5G | 2.9 | F | 1.9 | F | E1.7B | E1.2B | E1.7B | E1.5B | E | |
| 13 | E1.6B | G | F | G | G | G | G | G | G | G | 3.2 | 3.2 | 3.5 | G | 4.3 | 3.6 | 2.6 | G | G | 2.3 | E1.7B | 1.8 | E1.6B | E1.5B | |
| 14 | E1.6B | E1.7B | E1.6B | G | G | C | F | C | F | F | G | F | F | F | F | F | 2.7 | 1.9 | 2.1 | 2.9 | E1.4B | E1.6B | 1.9 | 1.8 | |
| 15 | E1.7B | E1.6B | G | F | F | F | F | F | F | F | F | F | F | F | F | F | G | 1.9 | E1.8B | 1.8 | 2.9 | E1.6B | E1.8B | C | |
| 16 | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | E1.6B | 1.8 | G | 3.0 | 3.5 | 3.5 | G | 4.0 | C | G | G | 2.2 | E1.9B | 2.0 | 1.8 | A | A | E1.6B | |
| 17 | C | E1.8B | G | G | G | G | G | G | G | G | G | G | G | G | G | G | F | F | E1.6B | E1.9B | E1.7B | E1.7B | E | E | |
| 18 | G | G | G | G | G | G | 2.0 | 1.7 | G | G | G | 2.9G | G | 2.9G | F | 2.8 | G | G | G | E1.7B | E1.8B | E1.8B | E | E | |
| 19 | G | G | G | G | G | G | G | G | 2.6G | F | G | F | F | G | G | G | F | E1.9B | E1.3B | E1.7B | C | C | C | C | |
| 20 | 1.8 | 1.5 | 1.6 | C | C | G | G | F | 2.3 | G | G | 2.9G | 2.9G | G | 2.4G | F | 1.9G | 2.0 | 1.8 | E1.4B | E1.8B | E1.6B | E1.8B | E1.8B | |
| 21 | C | E1.7B | E | E1.8B | E1.3B | E1.5B | G | G | G | G | F | G | G | G | G | 2.8 | F | G | G | E1.5B | A | 1.7 | E1.7B | E1.7B | |
| 22 | E1.7B | E1.6B | E1.3B | E | F | E | G | 1.4 | 2.8 | G | G | G | 3.6 | 3.0 | 2.9 | 2.6 | 2.5 | G | E1.8B | E1.7B | 1.8 | C | E1.5B | E1.5B | |
| 23 | E1.7B | E1.9B | E1.5B | G | G | G | F | G | G | 3.1 | G | 3.9 | 3.3 | G | F | F | G | G | 2.8 | E | E | E | E1.5B | E1.5B | |
| 24 | E | E1.3B | E | G | 1.9 | G | G | G | 2.6 | G | 3.5 | 3.6 | 3.7 | 3.8 | F | 2.7 | G | F | E1.9B | E1.7B | E1.5B | E | E | 2.1 | |
| 25 | 2.2 | 1.8 | 1.7 | 1.8 | 1.8 | 1.8 | 1.6 | G | F | G | G | F | F | 3.1 | 3.0 | 2.8 | G | F | G | 1.7 | 2.8 | E | E1.2B | E | |
| 26 | 1.4 | F | F | F | E | E | G | F | G | F | C | 2.8G | 3.3 | 2.9G | 2.5G | F | G | F | F | F | F | E1.7B | 1.8 | E1.7B | |
| 27 | E1.6B | E1.7B | F | G | G | F | F | F | 3.0 | C | 3.7 | 3.5 | 3.3 | 3.7 | 3.8 | 2.2 | 2.8 | E1.8B | 4.0 | 3.3 | E1.4B | E1.6B | E | E | |
| 28 | E | E1.4B | 1.5 | A | G | 1.6 | 1.5 | F | F | G | F | 3.6 | 2.9G | G | F | F | F | E1.6B | 1.9 | E1.8B | E1.4B | E1.5B | E1.6B | E1.6B | |
| 29 | E1.7B | E1.5B | E | E1.6B | 1.8 | E | 1.8 | 1.8G | G | G | G | 3.4 | G | F | F | F | 3.6 | 3.8 | 2.5 | A | E1.7B | 1.8 | E | E | |
| 30 | E1.7B | E1.7B | E1.8B | E1.5B | E | E | G | G | G | G | G | 3.8 | 3.6 | G | 3.1 | 2.5 | G | G | 1.9 | E | E1.2B | E1.7B | E | E | |
| 31 | E1.4B | E | G | G | F | G | F | 2.4 | G | G | 3.6 | 3.6 | 3.8 | 3.7 | 3.0 | 5.0H | 1.3 | 1.8 | 2.6 | 2.0 | E1.6B | E1.6B | E1.6B | E1.6B | |
| Медиана | E1.4 | E1.7 | E1.7 | G | E1.6 | G | E1.6 | G | E1.6 | G | E1.6 | G | E1.6 | G | E1.6 | G | E1.6 | G | E1.6 | E1.6 | E1.6 | E1.6 | E1.6 | E1.6 | E1.6 |
| Экстрем | 2.8 | 2.9 | 3.0 | 2.7 | 2.5 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | 2.7 | 2.7 | 2.8 | |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек

Станция АВТОМАТИЧЕСКАЯ (ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 0.1 МГц

Станция Алма-Ата МГц ДЕКАБРЬ 1959
(характеристика) (единицы) (мгц) (год)

Министерство Связи
(вместе с 1971)

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

ИОНОСФЕРНЫЕ ДАННЫЕ

полное время 75°E

Кем оставлена Кустовой

Кем подсчитана Гусаковой

| 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 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | E2.8C | 2.3 | 2.2 | 2.2 | E2.8S | E2.9S | E2.8S | E2.8S | E2.6S | 2.2 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 2.2 | 1.7 | 2.2 | 2.0 | 2.0 | E2.9S | E2.3S | 2.0 | 2.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 2.5 | 2.5 | 2.0 | 1.8 | 2.0 | 1.5 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 1.5 | 1.6 |
| 4 | 1.7 | 1.3 | 1.6 | 1.7 | C | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 | 1.9 | 1.7 | E2.7C | E3.6C | E2.8C | 1.7 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 |
| 5 | 1.6 | 1.7 | 1.6 | C | C | C | C | C | C | C | 1.9 | 1.8 | 1.8 | 2.0 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.4 | 1.5 | 1.7 | 1.7 |
| 6 | 1.6 | 1.6 | 1.5 | C | 1.0 | 1.0 | 1.5 | 1.5 | 1.7 | 1.8 | 1.9 | 2.8 | 2.9 | 3.5 | 2.9 | 1.8 | 1.7 | 1.7 | 1.0 | 1.0 | 1.3 | 1.7 | 1.7 | 1.4 |
| 7 | 1.5 | C | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.5 | 1.7 | 1.8 | 1.9 | 2.3 | 1.9 | 1.7 | 1.8 | 1.5 | 1.7 | 1.6 | 1.7 | 1.5 | 1.3 | 1.0 | 1.6 |
| 8 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 1.2 | 1.5 | 1.7 | 1.7 | 1.8 | 1.8 | 2.0 | 1.8 | E3.9C | 1.8 | 1.8 | 1.7 | 1.0 | 1.5 | 1.2 | 1.7 | 1.5 | 1.0 | 1.6 |
| 9 | 1.5 | 1.6 | 1.5 | 1.0 | 1.0 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 1.8 | E1.9C | C | C | C | C | C | C | C |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 1.6 | 1.8 | 1.8 | 1.0 | 1.3 | 1.4 | 1.0 | 1.6 |
| 11 | 1.6 | 1.6 | 1.7 | 1.4 | 1.0 | 1.5 | 1.3 | 1.4 | 1.8 | 1.6 | 1.9 | 2.0 | 2.4 | 2.3 | 2.0 | 2.0 | E2.1C | 1.8 | 1.7 | 1.6 | 1.2 | 1.7 | 1.5 | 1.7 |
| 12 | 1.8 | 1.6 | 1.6 | 1.0 | 1.0 | 1.0 | 1.2 | 1.5 | 1.8 | 2.0 | 2.0 | 1.9 | 1.8 | 2.0 | 1.9 | 1.9 | 1.5 | 1.5 | 1.7 | 1.7 | 1.2 | 1.7 | 1.5 | 1.0 |
| 13 | 1.6 | 1.0 | 1.5 | 1.8 | 1.8 | 1.0 | 1.5 | 1.5 | 1.8 | 1.8 | 1.9 | 1.9 | 1.8 | 2.2 | 1.9 | 1.9 | 1.8 | 1.6 | 1.5 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 |
| 14 | 1.6 | 1.7 | 1.6 | 1.5 | 1.7 | C | 1.4 | C | 1.6 | 1.6 | 1.8 | 2.1 | 1.8 | 2.2 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 1.6 | 1.4 | 1.6 | 1.7 | 1.5 |
| 15 | 1.7 | 1.6 | 1.7 | 1.4 | 1.4 | 1.7 | 1.7 | 1.4 | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 | 1.9 | 2.0 | 1.9 | 1.8 | 1.5 | 1.8 | 1.7 | 1.5 | 1.6 | 1.8 | C |
| 16 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 1.9 | 1.9 | 2.7 | 2.0 | C | E3.0C | E1.8C | 1.8 | 1.9 | 1.6 | 1.2 | 1.5 | 1.0 | 1.6 |
| 17 | C | 1.8 | 1.5 | 1.5 | 1.7 | 1.7 | 1.5 | 1.6 | 1.7 | 1.9 | 2.0 | 2.4 | 2.5 | 2.4 | 1.9 | 1.8 | 1.9 | 1.6 | 1.5 | 1.8 | 1.7 | 1.7 | 1.0 | 1.0 |
| 18 | 1.7 | 1.6 | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 | 1.0 | 1.7 | 1.8 | 2.0 | 1.8 | 2.2 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | 1.6 | 1.7 | 1.8 | 1.8 | 1.0 | 1.0 |
| 19 | 1.4 | 1.8 | 1.4 | 1.6 | 1.0 | 1.0 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 | 1.7 | 1.9 | 1.9 | 1.9 | 1.9 | 1.7 | 1.8 | 1.9 | 1.3 | 1.8 | C | C | C |
| 20 | 1.0 | 1.0 | 1.0 | C | C | 1.0 | 1.0 | 1.4 | 2.0 | 1.9 | 2.0 | 1.9 | 1.9 | 2.0 | 1.8 | 1.9 | 1.0 | 1.7 | 1.5 | 1.4 | 1.8 | 1.6 | 1.8 | 1.8 |
| 21 | C | 1.7 | 1.0 | 1.3 | 1.3 | 1.5 | 1.8 | 1.7 | 1.8 | 1.9 | 1.8 | 1.8 | 1.9 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.8 | C | 1.5 | 1.7 | 1.6 | 1.7 |
| 22 | 1.7 | 1.6 | 1.3 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.7 | 1.9 | 1.9 | 2.0 | 1.9 | 1.8 | 1.9 | 1.8 | 1.7 | 1.8 | 1.8 | 1.8 | 1.7 | 1.0 | C | 1.5 |
| 23 | 1.7 | 1.9 | 1.5 | 1.0 | 1.6 | 1.0 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.0 | 1.0 | 1.0 | 1.5 |
| 24 | 1.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.8 | 1.9 | 1.9 | 2.0 | 2.3 | 2.0 | 1.9 | 1.9 | 1.9 | 1.6 | 1.9 | 1.7 | 1.5 | 1.0 | 1.0 | 1.0 |
| 25 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.8 | 1.9 | 2.0 | 1.3 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.8 | 1.0 | 1.2 | 1.0 |
| 26 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 1.9 | 2.0 | 1.7 | 1.0 | 1.0 | 1.3 | 1.0 | 1.7 | 1.0 |
| 27 | 1.6 | 1.7 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.7 | 1.8 | C | 1.9 | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 | 1.4 | 1.6 | 1.0 |
| 28 | 1.0 | 1.0 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 | 1.9 | 2.4 | 1.8 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.0 | 1.6 | 1.0 | 1.8 | 1.4 | 1.5 | 1.6 |
| 29 | 1.7 | 1.5 | 1.0 | 1.0 | 1.6 | 1.0 | 1.0 | 1.0 | 1.7 | 1.9 | 1.9 | 2.0 | 2.6 | 2.6 | E3.4C | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.0 |
| 30 | 1.7 | 1.7 | 1.8 | 1.0 | 1.5 | 1.0 | 1.0 | 1.8 | 1.9 | 1.9 | 2.3 | 2.8 | 2.9 | 2.9 | 2.8 | 1.9 | 1.8 | 1.6 | 1.5 | 1.0 | 1.0 | 1.2 | 1.7 | 1.0 |
| 31 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.8 | 1.8 | 2.0 | 2.7 | 2.7 | 2.5 | 2.0 | 2.0 | 1.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.6 | 1.6 |
| Медиана | 1.4 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 |
| Учетно | 28 | 29 | 30 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 28 | 29 | 29 | 26 | 25 | 29 | 29 | 30 | 30 | 29 | 30 | 29 | 28 | 28 |
| | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.1 | 0.1 | 0.2 | 0.1 | 0.6 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.6 | 0.4 | 0.3 | 0.6 | 0.6 |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек
 Примечание: точность отсчета 0.1 МГц.

Станция автоматическая
(ручная, автоматическая)

(M 3000) F2 ДЕКАБРЬ 1959
(характеристика) (сигнал) (исход) (год)

МИНИСТЕРСТВО СВЯЗИ
(ИСТИНА)

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Ием составлена Соловьёвой

Долгота 76°55' E широта 43°15' N

полное время 75° E

Ием подсчитана Кустовой

| Дни | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|------|--------|--------|--------|--------|------|---------|--------|------|------|------|------|------|------|--------|--------|--------|------|--------|--------|------|------|------|--------|------|
| 1 | 2.50 | 2.30 | 2.75 | 2.45 | 2.50 | A | AU2.70S | 3.30 | S | S | 2.85 | S | S | 3.10 | 3.05 | 2.95 | 3.10 | 3.10 | 2.40 | 2.60 | 2.55 | 2.55 | 2.75 | | |
| 2 | 2.60 | 2.60 | 2.60 | 2.60 | 2.65 | 2.95 | 2.55 | 2.80 | 3.30 | S | 3.00 | S | 3.00 | S | 2.90 | 2.95 | 3.00 | 2.85 | 3.05 | 3.00 | 2.80 | 2.50 | 2.50 | 2.35 | |
| 3 | 2.70 | 2.45 | 2.25 | 2.35 | 2.35 | 2.55 | 2.90 | 2.55 | 3.00 | 3.15 | 3.15 | 3.05 | 3.00 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.85 | 2.80 | 2.95 | 2.65 | 2.85 | 2.60 | |
| 4 | 2.90 | 2.65 | 2.55 | 2.50 | C | 3.20 | 3.10 | 3.20 | 3.40 | 3.25 | 3.20 | 3.20 | 3.20 | 3.10 | 3.05 | 3.15 | 3.30 | 3.25 | 3.10 | 3.15 | 3.15 | 2.90 | 2.95 | U2.90C | |
| 5 | 2.70 | 2.80 | 2.60 | C | C | C | C | C | C | C | 3.25 | 3.30 | 3.30 | 2.95 | 3.05 | 3.00 | 3.05 | 3.20 | 2.95 | 3.00 | 2.45 | 2.15 | 2.05 | 2.05 | |
| 6 | 2.00 | 2.10 | 2.00 | C | A | 2.40 | 2.60 | 2.65 | 3.10 | 3.20 | 3.00 | 3.15 | 3.05 | 3.05 | 2.95 | 3.10 | 3.15 | 3.15 | 3.15 | 2.95 | 3.05 | 2.75 | 2.65 | 2.80 | |
| 7 | 2.70 | C | 2.70 | 2.65 | 2.80 | 3.00 | 2.95 | 2.95 | 3.30 | 3.25 | 3.25 | 3.25 | 3.25 | 3.05 | 3.00 | 3.00 | 3.15 | 3.20 | 3.25 | 3.30 | 3.40 | 2.75 | 2.55 | 2.80 | |
| 8 | 2.90 | 3.00 | 2.70 | 2.75 | 2.75 | 2.95 | 3.05 | 3.20 | 3.35 | 3.40 | 3.10 | 3.20 | 3.05 | 3.05 | 3.10 | 3.25 | 3.20 | 3.10 | 3.20 | 3.20 | 3.35 | 3.05 | 2.80 | 2.60 | |
| 9 | 2.65 | 2.65 | 2.70 | 2.55 | 2.50 | 2.75 | 3.00 | 3.20 | 3.40 | 3.25 | 3.20 | 2.95 | 3.05 | 3.05 | U2.95C | 3.10 | 3.05 | C | C | C | C | C | C | C | |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 3.25 | 3.20 | 3.10 | 3.20 | 3.25 | 3.00 | 2.75 | 2.65 | |
| 11 | 2.60 | 2.70 | 2.70 | 2.80 | 2.75 | 2.95 | 2.95 | 3.40 | 3.35 | 3.25 | 3.25 | 3.20 | 2.85 | 3.00 | 3.20 | 3.25 | 3.20 | 2.95 | 3.35 | 3.25 | 3.25 | 3.05 | 2.60 | 2.60 | |
| 12 | 2.80 | 2.80 | U2.65S | 2.80 | 2.80 | 2.95 | 3.10 | 3.00 | 3.35 | 3.00 | 3.10 | 3.10 | 3.05 | 2.85 | 3.20 | 3.30 | 3.30 | 3.00 | 3.30 | 3.40 | 3.40 | 2.70 | 2.70 | 2.80 | |
| 13 | 2.75 | 2.65 | 2.80 | 2.70 | 2.50 | 2.80 | 3.25 | 2.95 | 3.00 | 2.95 | 3.10 | 3.00 | 3.10 | 3.00 | 3.20 | 3.20 | 3.30 | 3.05 | 3.20 | 3.10 | 3.30 | 3.30 | 2.70 | 2.75 | |
| 14 | 2.55 | U2.70A | 2.25 | 2.70 | 2.46 | C | 2.80 | C | 3.15 | 2.95 | 2.90 | 3.10 | 2.90 | 2.90 | 3.00 | 3.00 | 3.00 | 3.05 | 3.25 | 3.30 | 2.80 | 2.75 | 2.45 | 2.50 | |
| 15 | 2.50 | 2.50 | 2.65 | 2.80 | 2.90 | 3.05 | 3.00 | 3.30 | 3.05 | 3.25 | 3.10 | 3.25 | 3.00 | 3.00 | 3.20 | 3.25 | 3.10 | 3.10 | 3.25 | 3.10 | A | 2.60 | 2.90 | C | |
| 16 | 2.45 | 2.40 | 2.50 | 2.80 | 2.60 | 2.70 | 2.75 | 2.70 | 3.25 | 3.05 | 3.20 | 3.25 | 3.05 | 2.85 | C | U3.10C | U3.25C | 3.10 | 3.20 | 3.20 | 3.20 | A | A | 2.45 | |
| 17 | C | 2.60 | 2.90 | 2.95 | 2.90 | 3.20 | 2.85 | 3.05 | 3.10 | 3.20 | 3.25 | 3.25 | 3.00 | 3.00 | 3.10 | 3.20 | 3.25 | 3.10 | 3.30 | 3.25 | 3.05 | 2.80 | 2.70 | 2.80 | |
| 18 | 2.80 | 2.70 | 2.60 | 2.60 | 2.70 | 3.05 | 3.10 | 3.00 | 3.10 | 3.25 | 3.10 | 3.30 | 3.20 | 3.10 | 3.15 | 3.20 | 3.25 | 3.20 | 3.20 | U3.30C | 3.10 | 2.40 | 2.60 | 2.85 | |
| 19 | 2.80 | 2.80 | 2.80 | 2.80 | 2.70 | 2.90 | 3.05 | 3.20 | 3.25 | 3.10 | 3.15 | 3.25 | 3.10 | 3.05 | 3.00 | 3.10 | 3.00 | 3.15 | 3.15 | 3.15 | 2.85 | C | C | C | |
| 20 | 2.85 | 2.80 | 2.70 | C | C | 2.95 | 2.95 | 3.00 | 3.20 | 3.40 | 3.30 | 3.35 | 3.20 | 3.00 | 3.25 | 3.10 | 3.05 | 3.25 | 3.30 | 3.35 | 3.35 | 2.75 | 2.90 | U2.60S | |
| 21 | C | 2.60 | 2.80 | 2.85 | 2.90 | 3.30 | 2.90 | 3.05 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.00 | 3.25 | 3.30 | 3.05 | 3.20 | 3.20 | C | 3.40 | A | 3.00 | 2.85 | |
| 22 | 2.75 | 2.80 | 2.85 | 2.75 | 2.75 | 2.95 | 2.90 | 3.15 | 3.25 | 3.30 | 3.30 | 3.25 | 3.00 | 3.00 | 3.15 | 3.20 | 3.05 | 3.00 | 3.30 | 3.50 | 2.95 | 2.65 | C | 2.70 | |
| 23 | 2.65 | 2.75 | 2.85 | U2.95S | U2.60S | 2.85 | 2.85 | 3.10 | 3.30 | 3.25 | 3.30 | 3.35 | 3.15 | 2.85 | 2.85 | 3.15 | 3.05 | 3.20 | 3.25 | 3.15 | 2.90 | 2.60 | 2.65 | U2.40C | |
| 24 | 2.35 | 2.50 | 2.80 | 3.20 | 3.20 | 2.60 | 2.40 | 3.00 | 3.25 | 3.30 | 3.00 | 3.20 | 3.15 | 2.95 | 3.10 | 3.00 | 3.05 | 3.05 | 3.30 | 3.25 | 3.10 | 2.85 | 2.85 | 2.60 | |
| 25 | 2.60 | 3.05 | 3.00 | 2.85 | 2.80 | 3.05 | 3.10 | 2.95 | 3.35 | 3.20 | 3.10 | 3.05 | 3.10 | 3.05 | 3.05 | 3.05 | 3.00 | 3.05 | 3.20 | 3.25 | 3.25 | 2.85 | 2.85 | 2.65 | |
| 26 | 2.65 | 2.65 | 2.70 | 2.75 | 2.95 | 3.05 | 3.20 | 2.75 | 3.20 | 3.25 | 3.20 | 3.20 | 3.10 | 3.05 | 3.05 | 2.90 | 3.05 | 3.10 | 3.10 | 3.05 | 2.85 | 2.95 | 2.55 | 2.50 | |
| 27 | 2.45 | 2.55 | 2.70 | 2.60 | 2.50 | 2.65 | 2.45 | 3.10 | 3.10 | 3.20 | C | 3.00 | 3.20 | 2.95 | 3.10 | 3.10 | 3.00 | 2.85 | 3.25 | 3.05 | 2.90 | 3.05 | 2.50 | 2.55 | |
| 28 | 2.45 | 2.30 | 2.80 | 2.55 | A | 2.85 | 2.60 | 2.70 | 3.05 | 3.40 | 3.20 | 3.20 | 3.05 | 3.10 | 3.00 | 3.20 | 3.05 | 3.25 | 3.25 | 3.05 | 2.90 | 2.45 | 2.45 | 2.40 | |
| 29 | 2.40 | 2.35 | 2.55 | 2.75 | 2.95 | 2.55 | 2.70 | 2.75 | 3.25 | 3.30 | 3.15 | 3.40 | 3.25 | 3.15 | 3.10 | 3.20 | 3.05 | 3.30 | 3.25 | 3.30 | A | 2.60 | 2.70 | 2.90 | |
| 30 | 2.70 | 2.75 | 2.95 | 3.15 | U3.00S | 2.95 | U2.90S | U2.95S | 3.40 | 3.15 | 3.10 | 3.20 | 3.25 | 2.95 | 3.05 | 3.20 | U2.90S | 3.15 | 3.05 | 3.40 | 2.70 | 2.70 | 2.50 | 2.65 | |
| 31 | 2.65 | 2.75 | 2.70 | 2.95 | 3.00 | 2.85 | 2.70 | 2.95 | 3.20 | 3.40 | 3.20 | 3.20 | 3.20 | 3.10 | 3.05 | 3.25 | 3.15 | 3.30 | U3.46S | U3.20S | 2.60 | 2.70 | 2.70 | 2.85 | |
| Мелкая | 2.65 | 2.65 | 2.70 | 2.75 | 2.75 | 2.95 | 2.90 | 3.00 | 3.25 | 3.25 | 3.20 | 3.20 | 3.10 | 3.00 | 3.05 | 3.10 | 3.05 | 3.10 | 3.20 | 3.20 | 3.05 | 2.75 | 2.65 | 2.65 | |
| Учтено | 28 | 29 | 30 | 27 | 25 | 27 | 28 | 28 | 29 | 27 | 28 | 28 | 29 | 28 | 29 | 30 | 31 | 30 | 30 | 29 | 28 | 27 | 27 | 28 | |
| | 0.30 | 0.30 | 0.20 | 0.25 | 0.30 | 0.30 | 0.35 | 0.35 | 0.20 | 0.15 | 0.15 | 0.15 | 0.20 | 0.10 | 0.15 | 0.15 | 0.20 | 0.15 | 0.15 | 0.15 | 0.25 | 0.40 | 0.30 | 0.25 | 0.30 |

Пробег частоты от 10 МГц до 180 МГц 20 сек. мин.

Станция АВТОМАТИЧЕСКАЯ

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 0.05

(ручная, автоматическая)

(M 3000) F1 ДЕКАБРЬ 1959
(станция) (сигнал) (мощность) (год)

Министерство связи
(институт)

Станция Алма-Ата

Кем составлена Соловьёвой

Долгота 76°55' E широта 43°15' N

ИОНОСФЕРНЫЕ ДАННЫЕ

полное время 75° E

Кем подсчитана Гусковой

| ..lav | 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 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | L | L | L | | | | | | | | | | | |
| 4 | | | | | | | | | | | | L | L | L | L | | | | | | | | | |
| 5 | | | | | | | | | | | L | L | L | 4.05 | | | | | | | | | | |
| 6 | | | | | | | | | | L | 4.55 | L | L | L | | L | | | | | | | | |
| 7 | | | | | | | | | | L | L | U400L | L | L | L | | | | | | | | | |
| 8 | | | | | | | | | | | L | L | 4.35 | | | | | | | | | | | |
| 9 | | | | | | | | | | | L | | | L | | | | | | L | | | | |
| 10 | | | | | | | | | | c | c | c | c | c | c | c | | | | | | | | |
| 11 | | | | | | | | | | | | L | L | L | L | | | | | | | | | |
| 12 | | | | | | | | | | | L | L | L | L | | | L | | | | | | | |
| 13 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | L | | | | | | | | | | |
| 15 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 16 | | | | | | | | | | | L | L | L | A | C | | | | | | | | | |
| 17 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 18 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 19 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 20 | | | | | | | | | | | L | 4.25 | L | L | | | | | | | | | | |
| 21 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 22 | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 23 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 24 | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 25 | | | | | | | | | | | | L | U425L | L | | | | | | | | | | |
| 26 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 27 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 28 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | |
| 29 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 30 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Междуна | | | | | | | | | | | 4.55 | 4.10 | 4.30 | 4.05 | | | | | | | | | | |
| Учтено | | | | | | | | | | | 1 | 2 | 2 | 1 | | | | | | | | | | |

Пробег частоты от 1.0 МГц до 18.0 МГц 20сек

Станция АВТОМАТИЧЕСКАЯ
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЁТА 0.05

№ км декабрь 1959

Министерство связи

Станция АПМА-АТ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Соловьевой

Долгота 76° 55' E широта 43° 15' N

полное время 75° E

Кем подсчитана Гусакowej

| Диа | 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 | E350B | E370B | E330B | E350B | E370B | A | A | A | 240 | 220 | 230 | 220 | 220 | 220 | 230 | 220 | 220 | 220 | 220 | 250 | E260B | 290 | 300 | 270 |
| 2 | E330B | E330B | 320 | 320 | 300 | 270 | 260 | E250B | 240 | 250 | 250 | 210 | 220 | 220 | 220 | 220 | 210 | 220 | 220 | 230 | 270 | E300B | 330 | E330B |
| 3 | E260B | E290B | E340B | E370B | E370B | 320 | 270 | 260 | 230 | 220 | 220 | 220 | 220 | 210 | 230 | 215 | 230 | A | E215B | E240B | E230B | E270B | E270B | E270B |
| 4 | E250B | E250B | E320B | E350B | C | 245 | E250B | 245 | 225 | 225 | 215 | 215 | 220 | 215 | 230 | 220 | 220 | E210B | E205B | E200B | E225B | E240B | E250B | E260B |
| 5 | E270B | E295B | E290B | C | C | C | C | C | C | C | 225 | 225 | 210 | 200 | 210 | 225 | 210 | E200B | E200B | E245B | E315B | E440B | E500B | E410B |
| 6 | R420B | R420B | E500B | C | A | E325B | E290B | E250B | 230 | 230 | 220 | 225 | 205 | 215 | 220 | 220 | 215 | E210B | 225 | 205 | E235B | E240B | E300B | E270B |
| 7 | E270B | C | E275B | E270B | 245 | 225 | 240 | 255 | 225 | 210 | 220 | 205 | 215 | 220 | 220 | 210 | 215 | E210B | E210B | E220B | E220B | E270B | E270B | E300B |
| 8 | E275B | E250B | E300B | E280B | E300B | E270B | E240B | 230 | 210 | 220 | 230 | 225 | 190 | E235C | 230 | 225 | 205 | E230B | 220 | E215B | E220B | E250B | E250B | E325B |
| 9 | E300B | E280B | E295B | E300B | E315B | E295B | E245B | 225 | 225 | 200 | 230 | 220 | 205 | 215 | U220C | 220 | 220 | C | C | C | C | C | C | C |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 230 | 200 | 250 | 210 | E210B | E250B | E295B | E310B |
| 11 | E330B | E300B | E320B | E270B | E290B | E250B | 215 | 230 | 205 | 215 | 230 | 225 | 210 | 220 | 240 | 220 | 205 | 215 | 200 | 205 | E220B | E240B | E300B | E320B |
| 12 | E300B | E330B | E310B | E260B | E250B | E260B | E255B | 250 | 205 | 200 | 230 | 230 | 210 | 200 | 230 | 210 | 200 | 240 | 220 | 200 | E220B | E305B | E300B | E270B |
| 13 | E290B | E300B | E290B | E305B | E350B | 280 | 210 | 225 | 225 | 225 | 230 | 220 | 210 | 230 | A | A | 210 | 225 | 210 | A | E210B | A | E300B | E300B |
| 14 | E340B | E310B | E250B | E290B | E370B | A | 250 | 230C | 220 | 230 | 240 | 240 | 230 | 230 | 230 | 220 | E225B | E200B | E210B | A | E270B | E275B | E370B | E330A |
| 15 | E330B | E300B | E260B | E245B | E250B | E230B | E250B | 205 | 205 | 230 | 230 | 230 | 200 | 230 | 240 | 215 | 205 | 210 | 210 | E230B | A | E310B | E270B | A |
| 16 | 340 | 330 | E270B | E270B | 300 | E280B | E270B | E260B | 210 | 230 | A | A | 210 | A | C | U210C | U205B | E205B | 210 | A | A | A | A | E350B |
| 17 | C | E330B | E260B | E240B | E240B | E250B | E270B | 250 | 210 | 230 | 225 | 220 | 210 | 210 | 220 | 230 | 205 | 210 | E200B | E230B | E250B | E290B | E300B | E270B |
| 18 | E290B | E320B | E300B | E290B | E310B | E240B | A | A | 205 | 210 | 220 | 230 | 205 | 220 | 235 | 210 | 200 | 200 | 210 | E205B | E250B | E350B | E320B | E260B |
| 19 | E250B | E270B | E250B | E275B | E270B | E250B | E245B | 220 | 210 | 230 | 225 | 220 | 205 | 230 | 220 | 220 | 215 | 205 | 205 | 205 | E270B | C | C | C |
| 20 | A | A | A | C | C | E250B | 250 | 250 | 230 | 225 | 230 | 245 | 210 | 225 | 230 | 220 | 210 | E200B | E210B | E200B | E230B | E275B | E275B | E310B |
| 21 | C | E325B | E260B | E255B | E250B | E225B | E275B | 225 | 220 | 230 | 230 | 220 | 215 | 215 | 226 | 205 | 220 | 200 | 220 | C | E215B | A | E270B | E295B |
| 22 | E300B | E295B | E270B | E280B | E295B | E260B | E250B | 240 | 230 | 235 | 225 | 210 | 200 | 225 | 225 | 215 | 215 | E200B | E200B | E205B | E240B | A | C | E300B |
| 23 | E330B | E300B | E250B | E260B | E310B | E250B | E275B | 240 | 205 | 225 | 225 | 215 | 220A | 225 | 220 | 235 | 205 | 205 | 230 | 240A | E250B | E250B | E300B | E275B |
| 24 | E380B | E360B | E255B | E230B | A | E240B | E335B | 230 | 210 | 225 | 206 | 206 | 240 | 225 | 230 | 220 | 225 | 215 | E200B | E215B | E230B | E230B | E230B | A |
| 25 | A | A | A | A | A | A | A | 240 | 205 | 225 | 215 | 210 | 185 | 230 | 220 | 215 | 230 | 200 | E225B | E210B | A | E250B | E250B | E275B |
| 26 | E300B | E300B | E275B | E270B | 250 | E240B | 240 | 275 | 215 | 230 | 230 | 215 | 205 | 220 | 215 | 220 | 230 | 220 | 205 | E210B | E250B | E250B | E310B | A |
| 27 | E350B | E325B | E290B | E280B | E310B | E280B | E300B | 250 | 225 | 215 | 210C | 210 | 210 | 220 | 230 | E230B | 210 | E215B | 220 | A | A | 235 | E270B | E290B |
| 28 | E320B | E325B | E330B | A | A | 200 | 2250A | 295 | 240 | 225 | 220 | 220 | 205 | 225 | 220 | 205 | 225 | 210 | 210 | E235B | E240B | E290B | E345B | E370B |
| 29 | E350B | E360B | E300B | E255B | E245B | A | E265B | 275 | 235 | 220 | 205 | 200 | 200 | 200 | 220 | 205 | 220 | A | A | A | A | E300B | A | E250B |
| 30 | E275B | E275B | E255B | E205B | E235B | E210B | 210 | 250 | 215 | 220 | 220 | 230 | 220 | 206 | 205 | 200 | 200 | 200 | 200 | E200B | A | E250B | E295B | E345B |
| 31 | E315B | E270B | E270B | E245B | E220B | E210B | E250B | 250 | 210 | 225 | 220 | 225 | 220 | 230 | 220 | 215 | 210A | 205 | A | A | A | A | E295B | E300B |
| Медиана | E305B | E300B | E290B | E270B | E295B | E250B | E250B | 250 | 220 | 225 | 225 | 220 | 210 | 220 | 220 | 220 | 210 | 205 | 210 | E210B | E240B | E275B | E300B | E300B |
| Уточни | 26 | 27 | 28 | 25 | 23 | 25 | 26 | 26 | 29 | 29 | 29 | 29 | 30 | 28 | 28 | 28 | 30 | 23 | 25 | 22 | 24 | 25 | 26 | 26 |
| | | | | | | | | 20 | 20 | 10 | 10 | 15 | 15 | 10 | 10 | 10 | 15 | 10 | 20 | | | | | |

Пробег частоты от 1.0 МГц до 12.0 МГц 20 сек
 ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 5 мк

Станция АВТОМАТИЧЕСКАЯ
 (ручная, автоматическая)

hF2 км декабрь 1959
(характеристика) (единицы) (год)

Министерство связи
(штукет)

Станция Алма-Ата

Кем составлена Соловьевой

Долгота 76°55'E широта 43°15' N

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем подсчитана Гусаковой

Полное время 75°E

| Дни | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|---------|----|----|----|----|----|----|----|----|----|----|-----|-------|-------|-----|----|----|----|----|----|----|----|----|----|----|--|
| 1 | | | | | | | | | | | | L | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | L | L | L | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 5 | | | | | | | | | | | L | L | L | 205 | | | | | | | | | | | |
| 6 | | | | | | | | | | L | 240 | L | L | L | | L | | | | | | | | | |
| 7 | | | | | | | | | | L | L | U210L | L | L | L | | | | | | | | | | |
| 8 | | | | | | | | | | | L | L | 210 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | L | | L | | | L | | | | | | | | | |
| 10 | | | | | | | | | | C | C | C | C | C | C | C | | | | | | | | | |
| 11 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 12 | | | | | | | | | | | L | L | L | L | | | L | | | | | | | | |
| 13 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 16 | | | | | | | | | | | L | L | L | A | C | | | | | | | | | | |
| 17 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 18 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 19 | | | | | | | | | | | L | L | L | L | | | | | | | | | | | |
| 20 | | | | | | | | | | | L | 220 | L | L | | | | | | | | | | | |
| 21 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 22 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 23 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 24 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 25 | | | | | | | | | | | | L | U225L | L | | | | | | | | | | | |
| 26 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 27 | | | | | | | | | | | | L | L | L | L | | | | | | | | | | |
| 28 | | | | | | | | | | L | L | L | L | L | L | | | | | | | | | | |
| 29 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 30 | | | | | | | | | | | L | L | L | L | L | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Медiana | | | | | | | | | | | 210 | 215 | 215 | 205 | | | | | | | | | | | |
| Учитено | | | | | | | | | | | 1 | 2 | 2 | 1 | | | | | | | | | | | |

Пробег частоты от 10 МГц до 180 МГц 20СЕК

Станция АВТОМАТИЧЕСКАЯ
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 5кМ

№ КМ декабрь 1959

Министерство связи

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Ком составлена Соловьевой

Высота 76°55' E широта 43°15' N

поясное время 75° E

Ком подсчитана Кустовой

| № | 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 | | | | | | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | В | | | | | | |
| 2 | | | | | | | | В | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90 | В | | | | |
| 3 | | | | | | | | В | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | В | В | | | | |
| 4 | | | | | С | С | С | С | С | С | 110 | 100 | А | В | А | 100 | Е140В | В | В | В | | | | |
| 5 | | | | | | | 100 | А | 100 | 100 | Е110В | 105 | В | В | В | 100 | В | В | В | | | | | В |
| 6 | | | | | Е | Е | Е | В | 100 | 100 | 105 | 105 | А | А | А | А | 100 | 100 | 100 | | | | | |
| 7 | В | В | | | | | В | В | В | Е125В | 105 | 105 | 110 | 105 | 105 | 100 | Е130В | 100 | | | | | | |
| 8 | | | | | | | В | 105 | 105 | 100 | 100 | 100 | 100 | 110 | У110С | 105 | С | С | С | С | С | С | С | С |
| 9 | С | С | С | С | С | С | С | С | С | С | С | С | С | С | С | С | 110 | В | В | Е | В | В | А | В |
| 10 | | | | | Е | В | В | В | Е110В | А | 110 | 110 | 110 | 110 | 110 | 110 | С | В | В | | | | | |
| 11 | | | | | Е | А | А | 100 | 105 | 110 | 100 | 105 | 105 | 100 | А | Е120В | В | 100 | В | | | | | |
| 12 | | | Е | В | В | В | В | В | В | Е110В | 105 | 105 | 100 | 105 | 100 | 100 | 100 | В | В | | | | | |
| 13 | | | | | В | В | В | В | В | С | В | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 100 | | | | |
| 14 | | | В | В | В | В | В | В | В | Е110В | 110 | 100 | 105 | 106 | 105 | 110 | Е120В | В | А | | | | | |
| 15 | | | | | | | 110 | Е140С | 100 | 100 | 100 | Е110В | 100 | С | С | С | С | 100 | | | | | | |
| 16 | | | В | В | В | В | В | В | В | Е130В | 110 | 110 | 110 | 110 | 110 | Е120В | В | В | В | | | | | |
| 17 | В | В | Е | В | В | В | В | В | В | А | В | 100 | 100 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | В | В | | |
| 18 | В | В | В | В | В | В | В | В | В | В | 100 | 100 | 105 | 105 | 105 | 105 | 105 | Е130В | В | | | С | С | С |
| 19 | | | | | | | Е | Е | В | Е150В | 100 | 100 | 110 | 110 | 100 | А | Е120В | А | 100 | 100 | | | | |
| 20 | | | | | | | В | В | 105 | 105 | 100 | 100 | 110 | 110 | 105 | 110 | Е150В | В | В | | | | | |
| 21 | | | | | | | В | 100 | 100 | Е116В | 110 | 107 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | В | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | Е | В | Е | В | В | В | Е150В | 115 | 105 | 100 | 100 | 110 | 100 | Е116В | Е150В | В | В | | | | | |
| 24 | | | Е | 100 | Е | Е | Е | Е | Е140В | 110 | 110 | 110 | 110 | 115 | 110 | 110 | 100 | 100 | В | | | | | |
| 25 | | | | | | А | 100 | В | Е150В | 100 | 105 | 100 | 100 | 105 | 100 | 105 | Е135В | Е | Е | | | | | |
| 26 | | Е | Е | Е | | | Е | Е | Е150В | 105 | 110 | 105 | 100 | А | 100 | 100 | В | В | Е | Е | В | | | |
| 27 | | | В | Е | Е | Е | Е | В | 100 | Е120В | С | 105 | 105 | 105 | 105 | 110 | Е140В | 110 | В | | | | | |
| 28 | | | | | | Е | Е | 100 | Е135В | 107 | 110 | 110 | 100 | 110 | 100 | 105 | Е145В | Е125В | | | | | | |
| 29 | | | | | | | | 100 | Е145А | 115 | 105 | 100 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | | | | | |
| 30 | | | | | | | | В | В | 100 | 100 | 105 | 100 | 105 | 100 | 105 | 120 | В | В | | | | | |
| 31 | | | Е | Е | Е | Е | Е | Е | Е125В | 120 | 100 | 105 | 115 | 100 | 105 | 100 | 100 | 100 | 100 | | | | | |
| 5 | | | | | | Е | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | Е | 100 | | | |
| Медиа | | Е | Е | Е | Е | Е | Е | 100 | Е110В | 105 | 100 | 105 | 105 | 105 | 105 | 105 | 100 | 100 | 100 | | | | | |
| Учтен | | 2 | 3 | 5 | 7 | 10 | 9 | 7 | 25 | 26 | 29 | 29 | 27 | 25 | 22 | 21 | 12 | 11 | 8 | | | | | |
| | | | | | | | | | Е40 | 10 | 10 | 7 | 0 | 10 | 10 | 10 | 10 | | | | | | | |

Пробег частоты от 40 МГц до 120 МГц 20 сек

Станция АВТОМАТИЧЕСКАЯ
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТСЧЕТА 5 КМ

№ Е км декабрь 1959
(азрактр) (единицы) (месяц) (год)

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Долгота 76°55'E широта 43°15'N

полюсное время 75°E

| Дни | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | B | B | B | B | B | 100 | 100 | 100 | G | 100 | 100 | 100 | 100 | G | G | 100 | G | G | B | 100 | B | B | B | B |
| 2 | B | B | B | B | B | B | 120 | 110 | G | G | G | 100 | G | G | G | G | G | B | B | 120 | 120 | B | 120 | 100 |
| 3 | B | B | B | B | B | 120 | 120 | 110 | 100 | G | G | G | G | 100 | 100 | 120 | 90 | 90 | G | B | B | B | B | B |
| 4 | B | B | B | B | C | 100 | B | G | 100 | 100 | 100 | G | G | G | G | 125 | 115 | 120 | G | B | B | B | B | B |
| 5 | B | B | B | C | C | C | C | C | C | C | C | C | G | 100 | 100 | 100 | 100 | G | G | G | G | B | B | B |
| 6 | B | B | B | C | 100 | 100 | 100 | 100 | 100 | 130 | G | G | G | G | G | G | 110 | G | G | E | B | B | B | B |
| 7 | B | C | E | E | G | G | G | G | 100 | 100 | G | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B | B | B | G |
| 8 | G | G | B | B | B | B | B | B | G | G | G | G | 125 | G | G | G | 100 | 100 | 100 | B | B | B | B | B |
| 9 | B | B | B | B | B | B | B | B | G | G | G | G | 115 | G | G | G | 125 | G | C | C | C | C | C | C |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 110 | G | G | G | G | G | 100 | G |
| 11 | B | 95 | B | B | G | G | G | G | G | 110 | G | G | G | 125 | G | 115 | G | G | B | B | B | 100 | 100 | B |
| 12 | B | B | B | E | G | 105 | 100 | 105 | G | G | G | G | G | G | 100 | 120 | G | 100 | G | B | B | B | B | E |
| 13 | B | G | G | G | G | G | G | G | G | G | 140 | 130 | 100 | G | 100 | 100 | 100 | G | G | 105 | 100 | 100 | 100 | 100 |
| 14 | B | B | B | B | G | C | G | C | G | G | G | G | G | G | G | G | 110 | 110 | 100 | 100 | 100 | B | 100 | 100 |
| 15 | B | B | G | G | G | G | G | G | G | 130 | 100 | G | G | G | G | G | 120 | G | 90 | B | 100 | 100 | 100 | B |
| 16 | B | B | 100 | B | B | B | B | 110 | G | 100 | 100 | 100 | 100 | 100 | C | G | G | 100 | B | 100 | 100 | 100 | 100 | 110 |
| 17 | C | B | G | G | G | G | G | G | G | G | G | G | 105 | G | G | 130 | 110 | G | B | B | B | B | B | E |
| 18 | G | G | G | G | G | G | 105 | 100 | 100 | G | G | 100 | G | 90 | G | 90 | 90 | 95 | G | B | B | B | B | E |
| 19 | G | G | G | G | G | G | G | G | 100 | G | G | G | G | G | G | 110 | G | G | B | B | B | C | C | C |
| 20 | 100 | 100 | 100 | C | C | G | G | G | 150 | G | G | 105 | 100 | G | 100 | G | 100 | 100 | 100 | B | B | B | B | B |
| 21 | C | B | E | B | B | B | G | G | G | G | G | G | G | E | G | 125 | G | G | G | C | B | 100 | 100 | 100 |
| 22 | B | B | B | E | E | E | G | 100 | 100 | G | G | 110 | G | 115 | 110 | 120 | 100 | 100 | G | B | B | 95 | C | B |
| 23 | B | B | B | G | G | G | G | G | G | G | 105 | G | 105 | 100 | G | G | G | 105 | 100 | 100 | E | E | E | C |
| 24 | E | B | E | 115 | 100 | G | G | G | 160 | 130 | 125 | 120 | 125 | 110 | 110 | 110 | 100 | G | B | B | B | E | E | 105 |
| 25 | 100 | 105 | 100 | 100 | 105 | 105 | 100 | G | G | G | G | G | 130 | 115 | 110 | 105 | G | G | G | 115 | 110 | 105 | B | 100 |
| 26 | 100 | G | G | G | E | E | G | G | G | 150 | 130 | 120 | 100 | 100 | 110 | 130 | 110 | G | G | G | G | E | 105 | 100 |
| 27 | B | B | G | G | G | G | G | G | G | 150 | C | 130 | 130 | 135 | 135 | 130 | 140 | 110 | 100 | 110 | 110 | B | B | E |
| 28 | E | E | B | 130 | 110 | 120 | 100 | 100 | G | G | G | G | 120 | 120 | G | 130 | G | G | B | 100 | B | B | B | B |
| 29 | B | B | E | E | B | 100 | 105 | 105 | 100 | 120 | G | G | 125 | G | G | G | G | 105 | 100 | 100 | 100 | B | 100 | 100 |
| 30 | 100 | B | B | E | B | E | E | G | G | G | G | G | 130 | 125 | 120 | G | 130 | 120 | G | 100 | E | B | B | E |
| 31 | B | E | G | G | G | G | G | G | 120 | G | G | G | 125 | 125 | 105 | 105 | 105 | 100 | 105 | 100 | 100 | B | B | B |
| Медиа | 100 | 100 | 100 | 115 | 100 | 100 | 105 | 100 | 100 | 100 | 120 | 105 | 105 | 105 | 105 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Углов | 4 | 3 | 3 | 3 | 4 | 8 | 9 | 10 | 11 | 11 | 8 | 14 | 17 | 15 | 12 | 22 | 17 | 15 | 8 | 14 | 9 | 7 | 9 | 9 |
| | | | | | | 15 | 15 | 10 | 60 | 30 | 30 | 25 | 25 | 20 | 10 | 20 | 10 | 5 | - | 5 | 9 | - | 5 | 5 |

Пробег частоты от 10 МГц до 180 МГц 20сек

Станция АВТОМАТИЧЕСКАЯ
(ручная, автоматическая)

ПРИМЕЧАНИЕ: ТОЧНОСТЬ ОТЧЕТА 5 км

кр. 2 км Декабрь 1959
(СВЕТЛОСРЕДНАЯ) (ДИНАМИКА) (ИССЛЕД.) (ГОД)

Министерство Связи
(УСТАТ. 17)

Станция

Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем оставлена

Кустовой

Долгота

76°55'E широта 43°15'N

полное время

75°E

Кем подсчитана

Гусаковой

| Час | 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 | 400 | 450 | 385 | 430 | 405 | A | A | 390 | 305 | S | S | 340 | 310 | S | 320 | 320 | 335 | 305 | 290 | 440 | 390 | 410 | 410 | 360 | |
| 2 | 400 | 410 | 400 | 400 | 390 | 340 | 390 | 380 | 300 | S | 310 | 315 | 300 | S | 330 | 320 | 330 | 340 | 300 | 310 | 360 | 420 | 430 | 430 | |
| 3 | 370 | 430 | 480 | 470 | 460 | 410 | 340 | 405 | 305 | 280 | 280 | 300 | 310 | 320 | 320 | 320 | 320 | 320 | 340 | 350 | 340 | 380 | 340 | 390 | |
| 4 | 330 | 380 | 415 | 430 | C | 280 | 295 | 280 | 255 | 265 | 280 | 275 | 280 | 300 | 305 | 280 | 270 | 275 | 295 | 280 | 280 | 325 | 320 | 320 | |
| 5 | 375 | 355 | 380 | C | C | C | C | C | C | C | C | 275 | 265 | 265 | 320 | 300 | 310 | 300 | 275 | 315 | 310 | 440 | 525 | 560 | 545 |
| 6 | 500 | 550 | 580 | C | A | 460 | 385 | 305 | 290 | 280 | 295 | 285 | 305 | 305 | 320 | 300 | 285 | 295 | 285 | 315 | 300 | 365 | 380 | 355 | |
| 7 | 360 | C | 370 | 380 | 350 | 305 | 310 | 310 | 260 | 275 | 270 | 275 | 275 | 300 | 310 | 320 | 330 | 300 | 275 | 260 | 240 | 375 | 400 | 360 | |
| 8 | 330 | 310 | 370 | 360 | 360 | 325 | 300 | 280 | 255 | 250 | 290 | 280 | 305 | 305 | 290 | 270 | 270 | 290 | 280 | 275 | 260 | 300 | 370 | 405 | |
| 9 | 380 | 380 | 375 | 405 | 415 | 365 | 310 | 275 | 255 | 270 | 270 | 325 | 300 | 300 | 113250 | 285 | 300 | C | C | C | C | C | C | C | |
| 10 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 270 | 280 | 290 | 280 | 270 | 310 | 360 | 380 | |
| 11 | 400 | 370 | 375 | 350 | 360 | 320 | 320 | 250 | 260 | 275 | 275 | 280 | 360 | 310 | 280 | 275 | 280 | 325 | 260 | 275 | 270 | 300 | 390 | 400 | |
| 12 | 350 | 350 | 380 | 350 | 350 | 320 | 300 | 310 | 255 | 310 | 290 | 290 | 305 | 340 | 280 | 270 | 270 | 310 | 270 | 250 | 270 | 370 | 375 | 350 | |
| 13 | 360 | 380 | 350 | 375 | 420 | 350 | 275 | 320 | 310 | 325 | 290 | 310 | 290 | 310 | 280 | 280 | 270 | 300 | 280 | 290 | 270 | 270 | 370 | 360 | |
| 14 | 410 | 375 | 340 | 375 | 430 | C | 350 | C | 290 | 320 | 310 | 310 | 340 | 330 | 310 | 310 | 310 | 300 | 270 | 260 | 350 | 360 | 440 | 420 | |
| 15 | 420 | 425 | 380 | 350 | 330 | 300 | 310 | 260 | 300 | 270 | 300 | 270 | 310 | 310 | 280 | 270 | 290 | 290 | 275 | 290 | A | 390 | 350 | C | |
| 16 | 450 | 470 | 430 | 360 | 400 | 410 | 350 | 350 | 270 | 300 | 280 | 270 | 300 | 340 | C | 290 | 270 | 290 | 280 | 280 | 280 | A | A | 440 | |
| 17 | C | 400 | 330 | 320 | 330 | 280 | 340 | 300 | 290 | 280 | 270 | 270 | 310 | 310 | 290 | 280 | 270 | 290 | 260 | 270 | 300 | 350 | 370 | 350 | |
| 18 | 350 | 370 | 400 | 400 | 370 | 300 | 290 | 310 | 290 | 270 | 290 | 265 | 280 | 290 | 285 | 275 | 270 | 280 | 280 | 240 | 290 | 450 | 390 | 340 | |
| 19 | 350 | 350 | 350 | 350 | 370 | 330 | 300 | 280 | 270 | 290 | 280 | 270 | 290 | 300 | 310 | 290 | 310 | 280 | 280 | 280 | 340 | C | C | C | |
| 20 | 340 | 350 | 370 | C | C | 320 | 325 | 315 | 280 | 255 | 270 | 260 | 270 | 315 | 275 | 295 | 290 | 270 | 270 | 260 | 260 | 365 | 330 | 390 | |
| 21 | C | 400 | 355 | 340 | 330 | 265 | 330 | 305 | 275 | 270 | 270 | 275 | 270 | 300 | 270 | 265 | 295 | 280 | 280 | C | 255 | A | 305 | 340 | |
| 22 | 365 | 350 | 340 | 360 | 365 | 320 | 330 | 285 | 270 | 265 | 265 | 270 | 305 | 305 | 285 | 280 | 300 | 310 | 260 | 245 | 320 | 385 | C | 375 | |
| 23 | 390 | 365 | 340 | 325 | 400 | 350 | 350 | 290 | 265 | 275 | 270 | 265 | 285 | 340 | 340 | 280 | 300 | 280 | 275 | 280 | 325 | 400 | 390 | 450 | |
| 24 | 475 | 425 | 350 | 280 | 275 | 400 | 450 | 300 | 275 | 265 | 305 | 280 | 280 | 325 | 290 | 300 | 300 | 300 | 265 | 270 | 300 | 350 | 325 | 400 | |
| 25 | 390 | 300 | 310 | 340 | 350 | 300 | 290 | 320 | 260 | 280 | 290 | 300 | 290 | 300 | 300 | 295 | 305 | 300 | 280 | 270 | 275 | 340 | 340 | 380 | |
| 26 | 380 | 380 | 370 | 365 | 320 | 305 | 280 | 365 | 280 | 270 | 275 | 275 | 295 | 300 | 300 | 325 | 300 | 290 | 290 | 300 | 340 | 320 | 405 | 425 | |
| 27 | 430 | 405 | 370 | 400 | 420 | 380 | 430 | 290 | 290 | 280 | C | 310 | 280 | 320 | 290 | 290 | 310 | 340 | 275 | 300 | 335 | 300 | 425 | 410 | |
| 28 | 435 | 420 | 420 | 405 | A | 350 | 400 | 370 | 300 | 255 | 280 | 280 | 300 | 290 | 310 | 280 | 300 | 275 | 270 | 300 | 325 | 375 | 440 | 435 | |
| 29 | 450 | 465 | 410 | 365 | 315 | 400 | 375 | 355 | 275 | 265 | 285 | 250 | 270 | 285 | 295 | 280 | 300 | 265 | 275 | 265 | A | 395 | 390 | 350 | |
| 30 | 375 | 360 | 320 | 285 | 310 | 300 | 355 | 320 | 255 | 285 | 295 | 280 | 275 | 320 | 305 | 275 | 325 | 285 | 295 | 255 | 370 | 375 | 420 | 385 | |
| 31 | 380 | 360 | 375 | 325 | 310 | 270 | 370 | 325 | 280 | 250 | 280 | 275 | 280 | 290 | 300 | 270 | 285 | 265 | 245 | 280 | 390 | 375 | 375 | 345 | |
| | 360 | 415 | 360 | 420 | 370 | 400 | 370 | 400 | 370 | 365 | 340 | 340 | 290 | 310 | 270 | 290 | 300 | 280 | 305 | 300 | 320 | 345 | 310 | 350 | 345 |
| Медиа | 380 | 380 | 370 | 360 | 360 | 320 | 330 | 310 | 275 | 275 | 280 | 280 | 290 | 310 | 300 | 280 | 300 | 290 | 280 | 280 | 300 | 370 | 380 | 380 | |
| Учтено | 28 | 29 | 30 | 27 | 25 | 27 | 28 | 28 | 29 | 27 | 28 | 30 | 30 | 28 | 29 | 30 | 31 | 30 | 30 | 29 | 28 | 27 | 27 | 28 | |
| | 55 | 60 | 50 | 60 | 70 | 65 | 60 | 50 | 50 | 15 | 20 | 30 | 25 | 20 | 25 | 25 | 40 | 20 | 20 | 40 | 70 | 65 | 60 | 65 | |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек. мин.
 Примечание: точность отсчета 5 км

Станция автоматическая
(УСТАТ. 17)

Типы В's Декабрь 1959

Министерство Связи

Станция Алма-Ата

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Лустовой

Долгота 76°55'E широта 43°15'N

полное время 75°E

Кем подсчитана _____

| Дни | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 1 | | | | | | e5 | e4 | e2 | | e1 | e1 | e1 | c1 | | | c1 | | | | f2 | | | | | |
| 2 | | | | | | | f1 | e1 | | | | e1 | | | | | | | | f4 | f3 | | f2 | f2 | |
| 3 | | | | | | f4 | f4 | e1 | e2 | | | | e1 | e1 | c1 | e1 | e2 | | | | | | | | |
| 4 | | | | | | f1 | | | e1 | e1 | e1 | | | | | c1 | c1 | e1 | | | | | | | |
| 5 | | | | | | | | | | | | | e1 | e1 | e1 | e1 | | | | | | | | | |
| 6 | | | | | f4 | f2 | f2 | e2 | e2 | c1 | | | | | | | e1 | | | | | | | | |
| 7 | | | | | | | | | e2 | e1 | | c1 | e1 | e1 | e1 | c1 | e1 | e1 | e1 | f1 | | | | | |
| 8 | | | | | | | | | | | | c1 | c1 | | | | e1 | e2 | e2 | | | | | | |
| 9 | | | | | | | | | | | | c1 | | | | c1 | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | e1 | | | | | | | e1 | |
| 11 | | f1 | | | | | | | | e1 | | | | c1 | | c1 | | | | | | f2 | f2 | | |
| 12 | | | | | | e1 | e2 | c1 | | | | | | | e1 | c1 | | e2 | | | | | | | |
| 13 | | | | | | | | | | | c1 | c1 | e1 | | e2 | e1 | e1 | | | f3 | f1 | f2 | f1 | f1 | |
| 14 | | | | | | | | | | | | | | | | | e1 | e1 | e1 | f2 | f1 | f1 | f2 | f1 | |
| 15 | | | | | | | | | | c1 | e1 | | | | | c1 | | e1 | | f2 | f1 | f1 | | | |
| 16 | | | f1 | | | | | e1 | | e1 | e2 | c1 | e1 | e2 | | | e1 | e1 | | f2 | f2 | f3 | f4 | f1 | |
| 17 | | | | | | | | | | | | | e1 | | | c1 | e1 | | | | | | | | |
| 18 | | | | | | e2 | e1 | e1 | | | | e1 | | e1 | | e1 | e1 | e1 | | | | | | | |
| 19 | | | | | | | | | | e1 | | | | | | c1 | | | | | | | | | |
| 20 | f1 | f1 | f1 | | | | | | | e1 | | e1 | e1 | | e1 | | e2 | e2 | e1 | | | | | | |
| 21 | | | | | | | | | | | | | | | | c1 | | | | | | f4 | f2 | f2 | |
| 22 | | | | | | | | e1 | e1 | | | c1 | | c1 | c1 | c1 | e2 | e2 | | | | f1 | | | |
| 23 | | | | | | | | | | | | | c2 | e1 | | | | e2 | e1 | f2 | | | | | |
| 24 | | | | e1 | e3 | | | | c1 | c1 | c1 | c1 | c1 | c1 | c1 | c1 | e1 | | | | | | | f3 | |
| 25 | f2 | f2 | f1 | f2 | f2 | e1 | e1 | | | | | | c1 | c1 | c1 | c1 | | | | f2 | f2 | f2 | | f2 | |
| 26 | f1 | | | | | | | | | c1 | c1 | c1 | e1 | e1 | c1 | c1 | e1 | | | | | | f1 | f2 | |
| 27 | | | | | | | | | | c1 | | c1 | c1 | c1 | c1 | c2 | c1 | e1 | e1 | f2 | f3 | | | | |
| 28 | | | | f2 | f2 | e1 | e1 | e2 | | | | | c1 | e1 | | c1 | | | | f2 | | | | | |
| 29 | | | | | | f2 | f1 | e1 | e1 | c1 | | | c1 | | | | | e3 | e2 | f1 | f2 | | f2 | f1 | |
| 30 | f1 | | | | | | | | | | | c1 | c1 | c1 | | c1 | e2 | | | f1 | | | | | |
| 31 | | | | | | | | | c1 | | | c1 | c1 | c1 | c1 | c1 | e2 | e1 | e2 | f2 | f1 | | | | |
| Медiana | | | | | | | | | | | | | | | | | | | | | | | | | |
| Уточно | | | | | | | | | | | | | | | | | | | | | | | | | |

Пробег частоты от 1.0 МГц до 18.0 МГц 20 сек

Станция автоматическая
(ручная, автоматическая)