

Дата илч маарь 1970г  
(характеристика) (единицы) (месяц) (год)

Сид илчид  
(институт)

Станция И-Пунгуска

Кем составлена Хилкшаевой Г.

Долгота 90°00' широта 61°36' поясное время 90°E

Кем подсчитана Королевой В.

# ИОНОСФЕРНЫЕ ДАННЫЕ

| 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       | 3.6    | 3.6    | 3.2    | 3.3    | 3.0    | 2.8    | 2.7    | 2.8    | 4.6    | 6.9    | 8.3    | 10.1    | 11.0 | 11.7    | 12.0    | 12.0    | 11.8    | 7.11R   | 9.7    | 7.3    | 6.0    | 5.0    | 4.1F   | 3.7F   |
| 2       | F      | 2.7F   | 2.7    | 2.6R   | 2.6    | 2.5F   | 2.5F   | F      | F      | 7.8.0R | 9.9    | 10.9    | 12.0 | 12.7    | 13.0    | 12.8    | 11.9    | 10.5    | 9.6    | 7.8    | 5.5    | 4.1    | 3.8F   | 3.5F   |
| 3       | 7.3.3F | 7.3.6F | 7.3.6F | F      | 3.0    | 2.7F   | F      | 7.2.1F | 3.9    | 6.9    | 9.6    | 11.0    | 11.7 | 7.12.8R | 7.13.0R | 12.9    | 12.4    | 11.8    | 10.4   | 8.9F   | F      | F      | 4.2F   | F      |
| 4       | F      | 7.3.7F | F      | F      | 7.3.6F | 7.2.4F | 2.4F   | 7.2.3F | 3.6    | 5.8    | 7.7.1S | 8.8     | 10.1 | 7.10.9R | 11.0F   | 11.1    | 11.0    | 10.2    | 9.0    | 7.2    | 7.5.8F | F      | 4.1    | F      |
| 5       | F      | F      | F      | F      | 7.3.2F | 7.3.0F | 3.0    | 2.7F   | 7.4.0F | S      | 8.1    | 10.1    | 10.9 | 11.3    | 11.6    | 11.9    | 11.4    | 11.0    | 9.3    | 7.0    | 7.5.0F | 7.4.0F | F      | 2.7F   |
| 6       | 7.2.7F | F      | 2.9    | F      | F      | 7.2.0F | 7.2.0F | F      | F      | S      | 8.9    | 10.5    | 11.7 | 12.0    | 12.6    | 12.1    | 11.1    | 7.10.3R | 8.9    | 6.1    | 4.2F   | 7.3.7F | 3.2    | 3.3    |
| 7       | 3.1    | 7.2.9R | 2.9    | 2.9    | 7.2.6F | F      | 2.2F   | F      | F      | 5.0    | 7.5.6F | 7.2     | 8.6  | 8.9F    | 7.9.4F  | 9.9     | 9.9     | 8.5     | R      | R      | F      | F      | R      | 3.6F   |
| 8       | F      | 3.8F   | 7.3.6F | F      | 7.3.6F | 3.0F   | 3.1    | F      | F      | F      | 7.8.0R | 11.0    | 11.8 | 11.9    | 12.0    | 12.0    | 10.9    | 9.9     | 8.8    | 6.0    | 7.4.1F | 3.8    | 3.0    | 2.8    |
| 9       | 2.6    | 2.4    | 2.3    | 2.0    | 1.9    | 2.0    | 2.3    | 2.1F   | 7.3.6F | 7.6.1S | 9.0    | 10.2    | 12.1 | 11.9    | 12.0    | 11.7    | 11.0    | 7.10.0S | 7.7.3R | 5.1    | 3.8    | 2.8    | 2.5    | 2.1    |
| 10      | 1.9    | 1.7    | 1.6F   | 1.7F   | F      | 1.8    | 2.0F   | 1.9F   | F      | 5.6    | 7.7    | 7.10.1R | 11.2 | 11.9    | 12.5    | 12.2    | 10.2    | 8.8     | 6.6    | 4.8F   | 3.5F   | F      | F      | 2.2    |
| 11      | 2.0    | 2.0    | 2.0    | 2.0    | 7.1.8F | F      | F      | F      | F      | 4.9    | 6.1    | 7.0     | 8.0  | 8.9     | 10.0    | 10.2    | 9.5     | 8.9     | 7.0    | 5.2    | 4.3    | 3.1    | F      | 2.0    |
| 12      | F      | F      | F      | F      | F      | F      | F      | F      | F      | 5.1    | 7.0    | 8.6     | 10.0 | 10.9    | 10.7    | 11.6    | 10.5    | 9.4     | 7.8.0S | 5.4    | 4.4    | 3.3    | 2.5    | 7.2.1F |
| 13      | 2.0F   | 2.0F   | F      | F      | 7.2.0F | 7.2.0F | 1.9    | 1.9F   | F      | 5.0    | 7.3    | 8.5     | 9.5  | 10.0    | 10.6    | 10.7    | 9.7     | 9.2     | 7.2    | 5.3    | F      | 2.6F   | 2.3    | 2.3    |
| 14      | 2.3F   | 2.3F   | 2.2F   | 2.3F   | 2.2F   | F      | 7.2.0F | 2.0F   | F      | 7.4.7F | F      | 7.7.9F  | 8.9  | 9.9     | 10.2    | 10.9    | 9.9     | 9.0     | 7.1    | 5.1F   | 3.9    | 3.0F   | 7.2.7F | 2.4    |
| 15      | 2.1F   | 7.2.1F | 1.9    | 7.1.9F | F      | F      | 2.0    | 2.0    | 7.2.5F | 7.5.0F | 7.7.4S | 9.0     | 9.9  | 11.4    | 11.0    | 11.6    | 9.6F    | S       | 7.7    | 5.9    | 7.4.0F | 2.9F   | F      | F      |
| 16      | F      | F      | F      | F      | F      | 3.0    | 3.3    | 2.9F   | 3.1F   | 7.6.0S | 8.6    | 10.8    | 11.0 | 11.1    | 11.9    | 7.11.2R | 9.7     | 9.0     | 7.7.9R | 5.9    | 4.4    | 3.6    | 3.0    | 2.7    |
| 17      | 2.3    | 2.1    | 2.4    | 7.2.5F | F      | F      | 2.1F   | 2.0    | F      | 5.8S   | 7.9.5R | 7.10.1R | R    | 12.1    | 12.1    | 12.0    | 10.7    | R       | 8.9    | 6.6    | 5.7    | 7.4.1F | 7.3.6F | 3.0    |
| 18      | 2.9    | 2.7F   | 2.9F   | 7.2.6F | F      | F      | F      | 2.5F   | 2.9    | 5.5    | 9.0    | 10.8    | 12.1 | R       | 12.7    | R       | 7.10.1R | 7.9.6R  | 7.7.5R | 5.1S   | 7.3.9F | 3.0    | A      | 2.0    |
| 19      | 2.0    | 2.7    | 2.4    | 2.7    | 2.5    | 2.0    | R      | C      | 5.0    | 5.6    | C      | C       | 7.2  | 8.0     | 8.8F    | F       | 8.8     | 7.8.9S  | 7.7.8R | 6.6    | 5.6    | 4.6    | 4.5    | 3.7    |
| 20      | 3.3    | 3.1    | 2.7    | 2.4    | 2.2    | 2.2    | 2.1    | 2.3    | 2.8F   | 4.6    | 7.1    | 7.3     | 9.5  | 10.1    | 7.10.1F | F       | 9.2     | F       | 6.9    | 7.4.7F | 4.0    | B      | 2.6    | B      |
| 21      | B      | B      | 2.0    | B      | B      | B      | B      | B      | B      | B      | 7.7.8R | 9.9     | 11.0 | R       | 10.9    | 10.5    | R       | R       | C      | C      | C      | C      | C      | C      |
| 22      | C      | C      | 3.9    | F      | 7.3.3F | 7.2.8F | F      | 2.6F   | 3.0F   | 7.5.0F | S      | S       | C    | 9.8     | 7.10.6R | 9.9     | 9.8     | 8.9     | S      | S      | F      | F      | 7.2.0F | 7.1.7F |
| 23      | F      | F      | F      | F      | F      | F      | F      | F      | F      | 7.2.6F | 4.4F   | S       | 8.3  | 10.1    | 10.9    | 11.5    | 11.7    | 9.7     | 7.9.0S | S      | 4.9F   | 3.0F   | 7.2.0F | F      |
| 24      | F      | F      | 2.7F   | 2.4F   | 2.4F   | 2.0F   | 2.0    | 2.0    | F      | F      | 6.1    | 8.0S    | 10.0 | 10.8    | 10.4    | 11.0    | 9.7     | S       | S      | S      | 4.0    | 7.8.1R | 3.0    | 2.5    |
| 25      | 7.2.2S | 2.0    | 7.1.8C | 2.0    | 2.1F   | 2.1F   | 2.0    | 1.9    | 2.0F   | S      | 7.7.0S | S       | C    | C       | C       | C       | C       | 7.8.2S  | 6.9    | 5.0F   | 7.3.5S | 2.8F   | 7.2.4F | 7.2.1F |
| 26      | F      | F      | F      | F      | F      | F      | 7.2.0F | 7.2.0F | F      | S      | 7.0F   | 8.9     | 9.8  | 10.4    | 10.8    | 10.0    | 7.8.0R  | 7.6     | S      | S      | S      | 7.2.7F | 2.1F   | F      |
| 27      | 2.0F   | 7.2.0F | 7.2.0F | S      | F      | S      | S      | F      | F      | S      | 7.7.0R | 7.8.4R  | 9.7  | 10.2    | 10.0    | C       | C       | C       | C      | S      | 7.2.0S | S      | S      | C      |
| 28      | C      | C      | C      | C      | C      | C      | F      | 7.2.0F | F      | S      | S      | 8.9     | S    | 7.9.1S  | 11.0    | 10.9    | 8.0F    | 7.5     | F      | F      | 7.3.1F | 2.1F   | 2.2    | 2.0F   |
| 29      | 2.1F   | 7.2.1F | F      | 7.2.1F | F      | 7.1.9F | 7.2.0F | 7.2.5F | 7.2.9F | S      | S      | 7.8.2S  | 9.0  | 10.0    | 9.9     | 10.2    | 8.7     | 7.7.0S  | S      | F      | 7.2.9F | F      | 7.2.0F | 7.2.1F |
| 30      | 2.3F   | 7.2.1F | 2.2F   | 2.6F   | 2.5F   | 7.2.8F | 3.0    | 2.8F   | F      | S      | S      | 7.9.9S  | 8.4  | 9.0     | 7.9.8S  | 10.4S   | 7.8.1R  | S       | S      | F      | 2.3F   | 7.2.0F | C      | 7.1.8F |
| 31      |        |        |        |        |        |        |        |        |        |        |        |         |      |         |         |         |         |         |        |        |        |        |        |        |
| Рыборт  | 2.9    | 3.0    | 2.9    | 2.6    | 3.1    | 2.8    | 2.6    | 2.6    | 3.9    | 6.0    | 8.9    | 10.2    | 11.0 | 11.9    | 12.0    | 12.0    | 11.0    | 10.2    | 9.0    | 6.8    | 4.7    | 3.9    | 3.7    | 3.0    |
| Медiana | 2.3    | 2.4    | 2.4    | 2.4    | 2.5    | 2.3    | 2.1    | 2.1    | 3.0    | 5.5    | 7.7    | 9.0     | 10.0 | 10.9    | 11.0    | 11.2    | 9.9     | 9.0     | 7.8    | 5.9    | 4.0    | 3.1    | 2.8    | 2.4    |
| Учено   | 1.8    | 2.0    | 2.1    | 1.6    | 1.7    | 1.8    | 2.0    | 2.0    | 1.4    | 1.9    | 2.3    | 2.7     | 2.6  | 2.7     | 2.9     | 2.5     | 2.7     | 2.3     | 2.0    | 2.1    | 2.4    | 2.1    | 2.0    | 2.2    |
| Ф.к.    | 0.9    | 1.0    | 0.9    | 0.6    | 0.9    |        | 0.6    | 0.6    | 1.1    | 1.0    | 1.9    | 1.9     | 1.7  | 2.0     | 1.8     | 1.6     | 1.5     | 1.4     | 1.8    | 1.7    | 1.2    | 1.1    | 1.3    | 0.9    |

Пробег частоты от 1 МГц до 18 МГц мнч Станция автоматическая  
(ручная, автоматическая)  
точность отсчета ±0.1

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

30E мгц ноябрь 1970г  
(характеристика, единица, месяц, год)

СибИЗМИР  
(институт)

Станция П-Тунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Жикишовой Г

Долгота 90° широта 61°36'

поясное время 90°E

Кем подсчитана Подпой М

| 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      |    |    |    |    |    |    |    |    | E1.5B | 1.9H  | √2.4R | 2.5   | 2.7   | 2.7   | 2.9   | 2.5   | 2.1   | 1.6   | E1.0E |    |    |    |    |    |
| 2      |    |    |    |    |    |    |    |    | 1.5   | 2.0H  | A     | 2.5   | 2.7   | 2.7   | √2.6R | 2.4   | 2.1   | 1.6   |       |    |    |    |    |    |
| 3      |    |    |    |    |    |    |    |    |       | 2.0   | A     | A     | 2.7   | 2.8   | 2.6H  | 2.4   | 2.1   | 1.6   | E1.3A |    |    |    |    |    |
| 4      |    |    |    |    |    |    |    |    | E1.2A | 1.9   | 2.1   | A     | A     | 2.7   | 2.4   | 2.3   | 2.0H  | 1.4   |       |    |    |    |    |    |
| 5      |    |    |    |    |    |    |    |    | A     | 1.9   | 2.1   | 3.0   | 3.0   | 2.7   | 2.5   | 2.3   | 2.0   | 1.5   |       |    |    |    |    |    |
| 6      |    |    |    |    |    |    |    |    | 1.3   | 2.0   | 2.2   | 2.4   | 2.6   | 2.5   | 2.5H  | 2.4   | 2.1   | E1.4B |       |    |    |    |    |    |
| 7      |    |    |    |    |    |    |    |    | 1.3   | 1.9   | 2.1   | 2.3   | B     | 2.4   | 2.4   | 2.2   | B     | 1.9   |       |    |    |    |    |    |
| 8      |    |    |    |    |    |    |    |    | 1.2   | 2.0   | 2.2   | 2.7   | 2.6   | 2.6   | 2.7H  | 2.2H  | 2.1   | E1.3B |       |    |    |    |    |    |
| 9      |    |    |    |    |    |    |    |    |       | 2.0   | 2.1   | 2.3   | 2.4   | 2.5   | 2.6   | A     | 1.9   | 1.5   |       |    |    |    |    |    |
| 10     |    |    |    |    |    |    |    |    | 1.2   | 1.9H  | 2.0   | 2.6   | 2.5   | √2.5R | 2.5   | 2.2   | 2.0   | 1.3   |       |    |    |    |    |    |
| 11     |    |    |    |    |    |    |    |    | E1.1A | 1.9H  | R     | 2.4   | 2.4   | √2.6R | 2.5   | 2.2   | 2.0   | E1.5A |       |    |    |    |    |    |
| 12     |    |    |    |    |    |    |    |    |       | 1.8   | 2.1H  | 2.4H  | 2.4   | 2.5   | 2.4   | 2.0   | 2.0   | 1.4   |       |    |    |    |    |    |
| 13     |    |    |    |    |    |    |    |    | E1.8A | 2.1   | 2.4H  | 2.5H  | 2.6   | 2.6   | 2.5   | 2.2   | 2.0   | E1.2B |       |    |    |    |    |    |
| 14     |    |    |    |    |    |    |    |    | E1.9A | E2.1A | 2.4   | 2.6   | 2.6   | 2.6   | 2.5   | 2.1   | E1.9A | 1.3   |       |    |    |    |    |    |
| 15     |    |    |    |    |    |    |    |    | E2.0A | E2.2A | E2.5A | E2.6A | 2.6   | E2.9A | E3.0B | E2.1A |       |       |       |    |    |    |    |    |
| 16     |    |    |    |    |    |    |    |    | E1.8A | R     | E2.6B | 2.6   | E2.5A | 2.5   | E2.4A | E1.9A | 1.5   | A     |       |    |    |    |    |    |
| 17     |    |    |    |    |    |    |    |    | 1.6   | 2.2R  | B     | E3.0B | 2.6   | 2.5   | E2.6B | 1.9   | E1.2B |       |       |    |    |    |    |    |
| 18     |    |    |    |    |    |    |    |    | 1.8   | R     | 2.6   | R     | R     | 2.6   | 2.3   | 1.8   | E1.3A |       |       |    |    |    |    |    |
| 19     |    |    |    |    |    |    |    |    | 1.6   | C     | C     | R     | R     | 2.5   | 2.1   | E2.0B | E1.3B |       |       |    |    |    |    |    |
| 20     |    |    |    |    |    |    |    |    | E1.6A | E2.3A | E3.3A | E2.6A | B     | R     | 2.1   | 1.9   |       |       |       |    |    |    |    |    |
| 21     |    |    |    |    |    |    |    |    | B     | B     | 2.0   | R     | 2.5   | R     | R     | 2.1   | B     | B     | C     |    |    |    |    |    |
| 22     |    |    |    |    |    |    |    |    | E1.1A | 1.6   | √2.1A | A     | 2.5H  | 2.4H  | 2.3   | 2.1H  | 1.8   | A     |       |    |    |    |    |    |
| 23     |    |    |    |    |    |    |    |    | A     | 1.6   | 2.0   | 2.3H  | 2.3   | 2.3   | 2.3   | 2.1   | 1.7   | E1.0E |       |    |    |    |    |    |
| 24     |    |    |    |    |    |    |    |    | 1.6   | E2.1A | 2.3   | 2.5   | 2.5H  | 2.2   | 2.0   | 1.7   |       |       |       |    |    |    |    |    |
| 25     |    |    |    |    |    |    |    |    | 1.6   | 2.0   | √2.0C | C     | C     | C     | C     | C     | C     | E1.0E |       |    |    |    |    |    |
| 26     |    |    |    |    |    |    |    |    | 1.3   | 1.9   | 2.2   | 2.3H  | 2.2   | 2.2   | 2.0   | 1.6   |       |       |       |    |    |    |    |    |
| 27     |    |    |    |    |    |    |    |    | 1.3   | A     | A     | A     | 2.3   | 2.1   | C     | C     | C     | C     |       |    |    |    |    |    |
| 28     |    |    |    |    |    |    |    |    | S     | 1.9   | E2.2R | E2.4A | E2.3A | E2.4B | 2.1   | E1.6A | E1.4A | A     |       |    |    |    |    |    |
| 29     |    |    |    |    |    |    |    |    | 1.5   | E1.9B | A     | R     | E2.3B | E2.4B | B     | E1.8A |       |       |       |    |    |    |    |    |
| 30     |    |    |    |    |    |    |    |    | E1.3A | A     | A     | B     | 2.3   | 2.1   | 2.0   | E1.9A |       |       |       |    |    |    |    |    |
| 31     |    |    |    |    |    |    |    |    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
| Медиап |    |    |    |    |    |    |    |    | 1.2   | √1.7  | √2.0  | 2.4   | √2.6  | 2.5   | 2.5   | √2.2  | √1.9  | E1.4  | E1.2  |    |    |    |    |    |
| Учено  |    |    |    |    |    |    |    |    | 10    | 28    | 22    | 21    | 22    | 25    | 27    | 26    | 26    | 20    | 2     |    |    |    |    |    |

Пробег частоты от 1 Мгц до 18 Мгц мин.

Станция автоматическая  
(ручная, автоматическая)

Точность отсчета: ± 0.1 мгц

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

fo Es мгц ноябрь 1970г.  
(характеристика, единица, месяц, год)

СибИЗМИР  
(институт)

Станция П-Тунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Никишаевой

Долгота 90°00' широта 61°36''

поясное время 90°E

Кем подсчитана Петрищевой

| 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      | E1.2B | E1.1B | E     | E1.1B | E     | E1.3B | E     | E     | G     | G    | G    | G     | G     | G     | G    | G    | G     | 1.7   | G     | E     | E1.1B | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 2      | 1.5   | E     | 2.0   | 2.0   | E     | E     | E     | E     | G     | G    | 2.3  | G     | G     | G     | G    | G    | G     | G     | E     | E1.1B | E1.2B | E     | E     | E1.1B |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 3      | E     | E     | E     | E     | E     | E     | E     | E     | E1.2B | G    | 2.4  | 2.7   | G     | G     | G    | G    | G     | G     | 1.5   | E1.1B | E     | E     | E1.2B | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 4      | E     | E1.1B | E1.2B | E1.1B | E1.1B | 2.0   | 1.7   | 1.9   | 1.6   | G    | 2.1  | 2.7   | 3.8   | G     | G    | G    | G     | G     | 1.8   | 2.5   | 1.5   | 1.8   | E1.3B | 2.1   |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 5      | 1.7   | 1.4   | 1.3   | 1.4   | E     | E1.1B | 1.4   | 1.5   | 1.8   | 1.9  | G    | G     | G     | G     | G    | G    | G     | G     | E     | E1.1B | E1.1B | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 6      | E     | E     | E1.1B | E     | 2.1   | 3.1   | 2.5   | 3.0   | G     | 2.0  | 2.1G | 2.1G  | 2.0G  | 2.0G  | G    | G    | G     | G     | E1.2B | E     | E1.2B | E1.1B | E1.1B | E1.3B |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 7      | E     | E     | 2.0   | E1.2B | E1.1B | E     | E     | E     | G     | G    | G    | G     | E3.0B | G     | G    | G    | G     | E3.0B | G     | 2.1   | 2.0   | 2.0   | 1.4   | 1.7   | E1.2B |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 8      | 1.5   | E     | 2.3   | 1.6   | E1.4B | E     | E1.1B | E1.3B | G     | G    | G    | 2.5G  | G     | 2.0G  | G    | G    | G     | G     | E     | 1.7   | E     | 1.8   | 1.8   | 1.6   |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 9      | E     | 1.3   | E     | E1.1B | E1.1B | 2.3   | 1.9   | 1.8   | E     | G    | G    | G     | G     | G     | G    | G    | G     | 2.3   | G     | E     | E     | E     | E     | E1.1B |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 10     | E1.3B | E     | E     | E     | 2.4   | 1.7   | E     | E     | 1.5   | G    | G    | G     | G     | G     | G    | 2.3G | 2.0G  | G     | G     | E1.1B | E1.9B | 2.4   | E1.1B | E     | E     |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 11     | E     | E1.1B | E1.1B | E     | 1.5   | E1.3B | 1.4   | 1.8   | 1.7   | G    | G    | G     | G     | G     | G    | G    | G     | 2.0   | E1.6B | E1.3B | E     | E1.3B | E1.1B | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 12     | E     | E     | E     | 1.9   | E1.1B | E     | 1.8   | 1.6   | E     | G    | G    | G     | 2.0G  | G     | G    | G    | G     | G     | E     | E1.4B | E1.2B | E     | E1.1B | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 13     | E     | E     | E     | 1.9   | E     | 2.1   | E     | E     | 1.6   | 1.9  | 2.5  | G     | G     | 2.0G  | 2.0G | 2.0G | G     | G     | E1.1B | E1.4B | E1.2B | E1.1B | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 14     | E     | E     | E     | E     | E     | 1.9   | 2.1   | 2.0   | 1.9   | 2.3  | 2.6  | G     | 2.1G  | 2.3G  | 2.2G | 2.0G | 2.0   | G     | E1.3B | E1.4B | E1.4B | E     | E     | E1.3B |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 15     | E     | 1.3   | 1.5   | 3.0x  | E     | E1.1B | 1.6   | 2.0   | 1.9   | 2.0  | 2.2  | 2.5   | 2.6   | G     | 3.4  | G    | 3.0   | 3.4x  | 3.4x  | 3.1   | 2.5   | 2.7   | 2.2   | 1.5   |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 16     | 1.9   | 2.3   | 2.0   | 2.0   | E1.2B | 1.3   | 2.0   | 2.0   | 1.7   | 2.0  | G    | G     | G     | 2.5   | G    | 2.6  | 2.9   | 2.7   | 3.9   | 4.0   | 2.4   | 1.9   | E1.2B | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 17     | E     | E1.1B | E     | 1.2   | 1.3   | E     | E     | E     | E     | G    | 2.0G | E3.0B | G     | G     | G    | G    | G     | G     | E1.5B | E1.6B | E1.4B | E     | 1.8   | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 18     | E1.2B | E1.1B | E     | E     | E     | E1.2B | E     | E     | E1.1B | 1.4G | G    | G     | G     | G     | G    | G    | 1.4G  | 2.0   | E1.2B | E1.3B | E1.3B | E1.3B | 1.9M  | 2.2   |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 19     | E1.1B | E1.5B | E1.3B | E1.5B | E1.3B | E1.5B | E1.9B | E1.3B | E1.5B | G    | G    | G     | G     | G     | G    | G    | G     | G     | E1.6B | E1.9B | E1.4B | E1.4B | E1.4B | E1.3B |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 20     | 2.0   | E1.3B | E1.1B | E     | 1.9   | E     | E1.2B | E1.2B | E     | 1.7  | 2.7  | 3.6   | 2.7   | E3.1B | 2.0G | 2.0G | 2.1   | E     | E     | E     | E     | B     | E     | B     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 21     | B     | B     | 1.6   | B     | B     | B     | B     | B     | B     | B    | G    | G     | G     | G     | G    | G    | E3.4B | E3.5B | C     | C     | C     | C     | C     | C     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 22     | C     | C     | E     | E     | E1.1B | E     | E     | E     | E     | 1.3  | 1.8  | 2.4   | 2.4   | 1.7G  | G    | 2.0G | 1.6G  | 2.1   | 2.0   | E1.1B | E     | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 23     | E     | 1.9   | 1.9   | E     | E     | E     | E     | E     | E     | 1.2  | 1.8  | 2.0   | G     | G     | 2.3  | 2.1G | G     | G     | 2.6   | E1.4B | E1.4B | E     | 1.7   | 2.1   | 1.9   |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 24     | 1.4   | 1.2   | 2.1   | E     | E     | E     | 1.5   | 1.9   | 2.0   | 2.0  | 2.4  | 2.0G  | 2.1G  | 2.1G  | 2.5  | 2.5  | 2.3   | 2.5   | 2.4   | E     | E     | E     | E1.3B | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 25     | E     | E     | E1.1B | E     | E     | E     | E     | E     | E     | E    | G    | G     | G     | C     | C    | C    | C     | C     | 1.3   | E1.1B | E     | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 26     | E     | E     | 2.2   | 1.7   | E     | E     | E     | 1.2   | E     | G    | 2.3  | 2.4   | G     | G     | G    | G    | G     | E     | E     | E     | E     | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 27     | E     | E     | E     | E     | E     | E     | 2.4   | 2.0   | E     | 1.8  | 2.3  | 4.0   | 2.9   | G     | G    | C    | C     | C     | C     | E     | E     | E     | E     | C     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 28     | C     | C     | C     | C     | C     | C     | 4.0   | 3.0   | E     | G    | G    | 2.0   | 3.4   | 2.6   | G    | G    | 1.6   | 1.4   | 1.2   | E1.1B | E     | E     | E     | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 29     | E     | E     | E     | E     | E     | E     | E     | E     | E     | 1.7  | 1.9  | 2.5   | 3.9   | G     | G    | G    | E2.3B | 1.9   | 2.1   | 2.0   | 1.3   | 1.4   | E     | E     | E     |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 30     | E     | E     | E     | E1.3B | E     | E1.1B | E     | 1.3   | E1.3B | 1.5  | 2.4  | 2.5   | E3.0B | 2.5   | G    | G    | 2.0   | 1.5   | 1.8   | E     | 2.2   | E     | C     | 2.0   |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| 31     |       |       |       |       |       |       |       |       |       |      |      |       |       |       |      |      |       |       |       |       |       |       |       |       |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| кварт  | E1.4  | E     | E1.3  | E     | 1.8   | E     | 1.6   | E     | E1.2  | E    | E1.4 | E     | 1.8   | E     | 1.9  | E    | 1.6   | E     | 1.9   | G     | 2.4   | G     | 2.5   | G     | 2.6   | G | G | G | G | G | 2.0 | G | 2.0 | G | 1.7 | E | E1.6 | E | E1.4 | E | 1.4 | E | E1.4 | E | E1.4 | E |
| Мелная | E     | E     | E1.1  | E1.1  | E     | E1.0  | E1.1  | E1.3  | E1.2  | G    | G    | G     | G     | G     | G    | G    | G     | G     | E1.2  | E1.3  | E1.2  | E     | E1.0  | E     |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| Учено  | 28    | 27    | 29    | 28    | 28    | 28    | 29    | 29    | 29    | 29   | 29   | 29    | 29    | 29    | 29   | 28   | 28    | 29    | 28    | 29    | 29    | 29    | 28    | 28    |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |
| Ф.кв.  | 0.4   | 0.3   | 0.8   | 0.6   | 0.2   | 0.4   | 0.8   | 0.9   | 0.6   | 0.2  | 0.4  | 0.1   | -     | -     | -    | -    | 0.2   | 0.6   |       |       |       |       |       |       |       |   |   |   |   |   |     |   |     |   |     |   |      |   |      |   |     |   |      |   |      |   |

Пробег частоты от 1 Мгц до 18 Мгц мин. Станция автоматическая  
(ручная, автоматическая)

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

ФБЕС мц ноябрь 1970г  
(характеристика, единица, месяц, год)

СибИЗМИР  
(ИНСТИТУТ)

Станция П-Тунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Никишаевой

Долгота 90° широта 61°36'

поясное время 90°E

Кем подсчитана Федоровой

| 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       | E 1.2B | E 1.1B | E      | E 1.1B | E      | E 1.3B | E      | E      | G      | G    | G      | G      | G      | G      | G    | G      | G      | 1.2G   | F      | E      | E 1.1B | E      | E      | E      |     |  |  |
| 2       | E      | E      | 1.1    | 1.1    | E      | E      | E      | E      | G      | G    | U 2.3R | G      | G      | G      | G    | G      | G      | G      | E      | E 1.1B | E 1.2B | E      | E      | E 1.1B |     |  |  |
| 3       | E      | E      | E      | E      | E      | E      | E      | E      | E 1.2B | G    | 2.4    | 2.7    | G      | G      | G    | G      | G      | G      | 1.3    | E 1.1B | E      | E      | E 1.2B | E      |     |  |  |
| 4       | E      | E 1.1B | E 1.2B | E 1.1B | E 1.1B | E 1.1B | E      | E      | 1.2    | G    | 2.0B   | 2.7    | 2.9    | G      | G    | G      | G      | G      | 1.5    | E 1.3B | E 1.2B | 1.1    | E 1.3B | E      |     |  |  |
| 5       | E      | E      | E      | 1.3    | E      | E 1.1B | 1.3    | E 1.1B | 1.1    | 1.7G | G      | G      | G      | G      | G    | G      | G      | G      | E      | E 1.1B | E 1.1B | E      | E      | E      |     |  |  |
| 6       | E      | E      | E 1.1B | E      | E      | E      | 1.4    | 1.3    | G      | 1.2G | U 2.1R | 2.0G   | 2.0G   | 1.9G   | G    | G      | G      | G      | E 1.2B | E      | E 1.2B | E 1.1B | E 1.1B | E 1.3B |     |  |  |
| 7       | E      | E      | 1.3    | E 1.2B | E 1.1B | E      | E      | E      | G      | G    | G      | G      | E 3.0B | G      | G    | G      | E 3.0B | G      | 1.7    | 1.3    | 1.6    | 1.2    | 1.3    | E 1.2B |     |  |  |
| 8       | 1.3    | E      | 1.3    | 1.5    | E 1.4B | E      | E 1.1B | E 1.3B | G      | G    | G      | 2.2G   | G      | 2.0G   | G    | G      | G      | G      | E      | E      | E      | 1.1    | E      | E      |     |  |  |
| 9       | E      | 1.2    | E      | E 1.1B | E 1.1B | 1.4    | 1.4    | 1.1    | E      | G    | G      | G      | G      | G      | G    | 2.2    | G      | G      | E      | E      | E      | E      | E      | E 1.1B |     |  |  |
| 10      | E 1.3B | E      | E      | E      | 1.1    | E      | E      | E      | E      | G    | G      | G      | G      | G      | 1.9G | 1.8G   | G      | G      | E 1.1B | E 1.9B | E 1.4B | E 1.1B | E      | E      |     |  |  |
| 11      | E      | E 1.1B | E 1.1B | E      | E      | E 1.3B | 1.1    | E      | 1.1    | G    | G      | G      | G      | G      | G    | G      | G      | 1.5    | E 1.6B | E 1.3B | E      | E 1.3B | E 1.1B | E      |     |  |  |
| 12      | E      | E      | E      | E 1.3B | E 1.1B | E      | E      | 1.4    | E      | G    | G      | G      | U 2.0R | G      | G    | G      | G      | G      | E      | E 1.4B | E 1.2B | E      | E 1.1B | E      |     |  |  |
| 13      | E      | E      | E      | E      | E      | E      | E      | E      | E      | 1.8  | 2.0G   | G      | G      | G      | 2.0G | 1.8G   | G      | G      | E 1.1B | E 1.4B | E 1.2B | E 1.1B | E      | E      |     |  |  |
| 14      | E      | E      | E      | E      | E      | E      | E      | E      | E      | 1.9  | 2.1    | G      | 2.1G   | 2.0G   | 2.1G | 2.0G   | 1.9    | G      | E 1.3B | E 1.4B | E 1.4B | E      | E      | E 1.3B |     |  |  |
| 15      | E      | 1.1    | 1.1    | E      | E      | E 1.1B | 1.3    | E 1.3B | 1.5    | 2.0  | 2.2    | 2.5    | 2.6    | G      | 2.9  | G      | 2.1    | 1.3    | 2.0    | 1.4    | 1.1    | 1.8    | 1.5    | 1.2    |     |  |  |
| 16      | E 1.1B | 1.2    | E      | 1.3    | E 1.2B | 1.3    | 1.5    | 1.2    | 1.5    | 1.8  | G      | G      | G      | U 2.5R | G    | 2.4    | 1.9    | 1.3G   | 1.8    | 2.1    | 1.9    | 1.4    | E 1.2B | E      |     |  |  |
| 17      | E      | E 1.1B | E      | E      | E      | E      | E      | E      | E      | G    | 1.9G   | E 3.0B | G      | G      | G    | G      | G      | E 1.5B | E 1.6B | E 1.4B | E      | E 1.4B | E      |        |     |  |  |
| 18      | E 1.2B | E 1.1B | E      | E      | E      | E 1.2B | E      | E      | E 1.1B | 1.4G | G      | G      | G      | G      | G    | G      | 1.4G   | 1.3    | E 1.2B | E 1.3B | E 1.3B | E 1.3B | A      | E 1.1B |     |  |  |
| 19      | E 1.1B | E 1.5B | E 1.3B | E 1.5B | E 1.3B | E 1.5B | E 1.9B | E 1.3B | E 1.5B | G    | C      | C      | G      | G      | G    | G      | G      | E 1.6B | E 1.9B | E 1.4B | E 1.4B | E 1.4B | E 1.4B | E 1.3B |     |  |  |
| 20      | E 1.4B | E 1.3B | E 1.1B | E      | E 1.3B | E      | E 1.2B | E 1.2B | E      | 1.6  | 2.3    | 3.3    | 2.6    | E 3.1B | 1.9G | 1.7G   | 1.4G   | E      | E      | E      | E      | B      | E      | B      |     |  |  |
| 21      | B      | B      | 1.6    | B      | B      | B      | B      | B      | B      | B    | G      | G      | G      | G      | G    | G      | E 3.4B | E 3.5B | C      | C      | C      | C      | C      | C      |     |  |  |
| 22      | C      | G      | E      | E      | E 1.1B | E      | E      | E      | E      | 1.1  | 1.4G   | 2.2    | 2.4    | U 1.7R | G    | 1.6G   | 1.6G   | 1.6G   | 1.6    | E 1.1B | E      | E      | E      | E      |     |  |  |
| 23      | E      | 1.5    | 1.5    | E      | E      | E      | E      | E      | E      | 1.2  | 1.3G   | 1.7G   | G      | G      | 2.1G | 2.0G   | G      | G      | E      | E 1.4B | E 1.4B | E      | 1.1    | E      | 1.5 |  |  |
| 24      | E      | E      | E      | E      | E      | E      | E      | 1.4    | E      | 1.3G | 2.1    | 2.0G   | 2.1G   | 2.0G   | 2.0G | 1.7G   | 1.6G   | E      | E      | E      | E      | E      | E 1.3B | E      |     |  |  |
| 25      | E      | E      | E 1.1B | E      | E      | E      | E      | E      | E      | G    | G      | G      | C      | C      | C    | C      | C      | E      | E 1.1B | E      | E      | E      | E      | E      |     |  |  |
| 26      | E      | E      | E      | E      | E      | E      | E      | E      | E      | E    | G      | G      | G      | G      | G    | G      | G      | E      | E      | E      | E      | E      | E      | E      |     |  |  |
| 27      | E      | E      | E      | E      | E      | E      | E      | E      | E      | E    | G      | 2.1    | 2.1    | 2.3    | G    | G      | C      | C      | C      | E      | E      | E      | E      | E      | C   |  |  |
| 28      | C      | C      | C      | C      | C      | C      | E      | 1.2    | E      | G    | G      | U 2.0R | 2.4    | 2.3    | G    | G      | 1.6    | 1.4    | 1.2    | E 1.1B | E      | E      | E      | E      |     |  |  |
| 29      | E      | E      | E      | E      | E      | E      | E      | E      | E      | 1.2  | 1.2G   | E 1.9B | 2.7    | G      | G    | E 2.3B | 1.8    | 1.2    | E      | 1.1    | 1.3    | E      | E      | E      |     |  |  |
| 30      | E      | E      | E      | E 1.3B | E      | E 1.1B | E      | 1.1    | E 1.3B | 1.3  | 2.3    | 2.3    | E 3.0B | 2.1G   | G    | G      | 1.9    | 1.2    | 1.5    | E      | 1.1    | E      | C      | E      |     |  |  |
| 31      |        |        |        |        |        |        |        |        |        |      |        |        |        |        |      |        |        |        |        |        |        |        |        |        |     |  |  |
| Мелания | E      | E      | E      | E      | E      | E      | E      | E      | E 1.1  | G    | G      | G      | G      | G      | G    | G      | G      | E 1.2  | E 1.1  | E 1.1  | E      | E      | E      |        |     |  |  |
| Учено   | 27     | 27     | 29     | 28     | 28     | 28     | 29     | 29     | 29     | 29   | 29     | 29     | 29     | 29     | 29   | 28     | 28     | 29     | 28     | 29     | 29     | 28     | 28     | 28     |     |  |  |
|         |        |        |        |        |        |        |        |        |        |      |        |        |        |        |      |        |        |        |        |        |        |        |        |        |     |  |  |

G ≤ 1.2 G ≤ U 1.7 G ≤ U 2.0 G ≤ 2.4 G ≤ U 2.6 G ≤ 2.5 G ≤ 2.5 G ≤ U 2.2 G ≤ U 1.8 G ≤ E 1.4 G ≤ 1.2

Пробег частоты от 1 МГц до 18 МГц мин. Станция автоматическая  
(ручная, автоматическая)

точность отсчета ± 0.1

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

*f<sub>min</sub> мц ноябрь 1970г*

(характеристика, единица, месяц, год)

*Сиб.ИЗМИР*

(институт)

Станция П-Тунгуско

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Жикишаевой Г.

Долгота 90° широта 61°36'

поясное время 90°E

Кем подсчитана Хрипуновской Н.

| 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              | 1.2         | 1.1         | 1.0         | 1.1         | 1.0         | 1.3         | 1.0         | 1.0         | 1.5         | 1.0         | 1.2         | 1.1         | 1.4         | 1.4         | 1.5         | 1.2         | 1.2         | 1.1         | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         |             |             |             |
| 2              | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         | 1.1         | 1.4         | 1.2         | 1.2         | 1.3         | 1.2         | 1.2         | 1.0         | 1.2         | 1.0         | 1.1         | 1.2         | 1.0         | 1.0         | 1.1         |             |             |             |
| 3              | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         | 1.4         | 1.3         | 1.5         | 1.5         | 1.5         | 1.4         | 1.5         | 1.2         | 1.1         | 1.1         | 1.1         | 1.0         | 1.0         | 1.2         | 1.0         |             |             |             |
| 4              | 1.0         | 1.1         | 1.2         | 1.1         | 1.1         | 1.1         | 1.0         | 1.0         | 1.1         | 1.2         | 1.4         | 1.4         | 1.5         | 1.4         | 1.3         | 1.3         | 1.0         | 1.0         | 1.0         | 1.3         | 1.2         | 1.0         | 1.3         | 1.0         |             |             |             |
| 5              | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.1         | 1.1         | 1.0         | 1.0         | 1.1         | 1.7         | 1.4         | 1.5         | 1.4         | 1.4         | 1.2         | 1.0         | 1.0         | 1.1         | 1.1         | 1.0         | 1.0         | 1.0         |             |             |             |
| 6              | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.2         | 1.1         | 1.4         | 1.3         | 1.7         | 1.4         | 1.4         | 1.2         | 1.0         | 1.2         | 1.1         | 1.1         | 1.3         |             |             |             |
| 7              | 1.0         | 1.0         | 1.1         | 1.2         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.3         | 1.3         | 3.0         | 1.5         | 1.4         | 1.4         | 3.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         |             |             |             |
| 8              | 1.1         | 1.0         | 1.0         | 1.1         | 1.4         | 1.0         | 1.1         | 1.3         | 1.0         | 1.3         | 1.2         | 1.3         | 1.4         | 1.3         | 1.3         | 1.3         | 1.4         | 1.3         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 9              | 1.0         | 1.1         | 1.0         | 1.1         | 1.1         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.1         | 1.5         | 1.3         | 1.6         | 1.7         | 1.4         | 1.3         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         |             |             |             |
| 10             | 1.3         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.4         | 1.2         | 1.3         | 1.8         | 1.3         | 1.2         | 1.6         | 1.0         | 1.1         | 1.9         | 1.4         | 1.1         | 1.0         | 1.0         |             |             |             |
| 11             | 1.0         | 1.1         | 1.1         | 1.0         | 1.0         | 1.3         | 1.0         | 1.0         | 1.0         | 1.3         | 1.7         | 1.6         | 1.8         | 2.0         | 2.0         | 1.9         | 1.4         | 1.0         | 1.6         | 1.3         | 1.0         | 1.3         | 1.1         | 1.0         |             |             |             |
| 12             | 1.0         | 1.0         | 1.0         | 1.3         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         | 1.6         | 1.4         | 1.2         | 1.7         | 1.4         | 1.2         | 1.0         | 1.0         | 1.4         | 1.2         | 1.0         | 1.1         | 1.0         |             |             |             |
| 13             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.3         | 1.5         | 1.6         | 1.6         | 1.7         | 1.4         | 1.4         | 1.2         | 1.1         | 1.4         | 1.2         | 1.1         | 1.0         | 1.0         |             |             |             |
| 14             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.8         | 2.1         | 1.4         | 1.2         | 1.5         | 1.3         | 1.6         | 1.0         | 1.3         | 1.4         | 1.4         | 1.0         | 1.0         | 1.3         |             |             |             |
| 15             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.0         | 1.3         | 1.0         | 1.0         | 1.1         | 1.5         | 1.2         | 1.1         | 1.4         | 3.0         | 1.0         | 1.0         | 1.1         | 1.1         | 1.0         | 1.0         | 1.1         | 1.1         |             |             |             |
| 16             | 1.1         | 1.0         | 1.0         | 1.0         | 1.2         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.8         | 2.6         | 1.8         | 1.2         | 2.2         | 2.0         | 1.4         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         | 1.0         |             |             |             |
| 17             | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.3         | 1.4         | 3.0         | 3.0         | 2.0         | 1.8         | 2.6         | 1.4         | 1.2         | 1.5         | 1.6         | 1.4         | 1.0         | 1.4         | 1.0         |             |             |             |
| 18             | 1.2         | 1.1         | 1.0         | 1.0         | 1.0         | 1.2         | 1.0         | 1.0         | 1.1         | 1.0         | 1.4         | 1.8         | 1.6         | 1.6         | 1.9         | 1.7         | 1.0         | 1.0         | 1.2         | 1.3         | 1.3         | 1.3         | 1.3         | 1.1         |             |             |             |
| 19             | 1.1         | 1.5         | 1.3         | 1.5         | 1.3         | 1.5         | 1.9         | 1.3         | 1.5         | 1.1         | C           | C           | 1.4         | 1.8         | 1.7         | 1.6         | 2.0         | 1.3         | 1.6         | 1.9         | 1.4         | 1.4         | 1.4         | 1.3         |             |             |             |
| 20             | 1.4         | 1.3         | 1.1         | 1.0         | 1.3         | 1.0         | 1.2         | 1.2         | 1.0         | 1.3         | 1.6         | 1.8         | 2.0         | 3.1         | 1.6         | 1.2         | 1.2         | 1.0         | 1.0         | 1.0         | 1.0         | B           | 1.0         | B           |             |             |             |
| 21             | B           | B           | 1.4         | B           | B           | B           | B           | B           | B           | B           | 1.7         | 1.7         | 1.8         | 2.0         | 1.6         | 1.5         | 3.4         | 3.5         | C           | C           | C           | C           | C           | C           |             |             |             |
| 22             | C           | C           | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.5         | 1.4         | 1.3         | 1.2         | 1.1         | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 23             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.4         | 1.4         | 1.1         | 1.1         | 1.2         | 1.6         | 1.3         | 1.0         | 1.4         | 1.4         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 24             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.6         | 1.3         | 1.9         | 1.4         | 1.2         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.3         | 1.0         |             |             |             |
| 25             | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.6         | 1.5         | C           | C           | C           | C           | C           | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 26             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.2         | 1.6         | 1.7         | 1.7         | 1.7         | 1.7         | 1.2         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 27             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.4         | 1.6         | 1.6         | 1.7         | 1.5         | C           | C           | C           | C           | 1.0         | 1.0         | 1.0         | 1.0         | C           |             |             |             |
| 28             | C           | C           | C           | C           | C           | C           | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.7         | 2.4         | 1.4         | 1.3         | 1.0         | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 29             | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.9         | 2.0         | 1.5         | 2.3         | 2.4         | 2.3         | 1.3         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |             |             |             |
| 30             | 1.0         | 1.0         | 1.0         | 1.3         | 1.0         | 1.1         | 1.0         | 1.0         | 1.3         | 1.1         | 1.3         | 1.8         | 3.0         | 2.0         | 1.9         | 1.9         | 1.3         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | C           | 1.0         |             |             |             |
| 31             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <i>В.Кв.</i>   | <i>1.1</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.1</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  | <i>1.0</i>  |
| <i>Медиана</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> | <i>U1.0</i> |
| <i>Учено</i>   | <i>28</i>   | <i>28</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>30</i>   | <i>30</i>   | <i>30</i>   | <i>30</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>28</i>   | <i>28</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>29</i>   | <i>28</i>   | <i>28</i>   | <i>28</i>   |
| <i>Д.Кв.</i>   | <i>0.1</i>  | <i>0.1</i>  | <i>0.1</i>  | <i>0.1</i>  | <i>0.1</i>  | <i>0.1</i>  | —           | —           | <i>0.1</i>  | <i>0.1</i>  | <i>0.4</i>  | <i>0.5</i>  | <i>0.4</i>  | <i>0.5</i>  | <i>0.5</i>  | <i>0.4</i>  | <i>0.1</i>  | <i>0.2</i>  | <i>0.2</i>  | <i>0.4</i>  | <i>0.2</i>  | —           | <i>0.2</i>  | <i>0.1</i>  |             |             |             |

Проход частоты от 1 Мгц до 18 Мгц мин.

Станция автоматическая

Точность отчета:  $\pm 0.1$  Мгц

(ручная, автоматическая)

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

M(3000) F<sub>2</sub>    ноябрь 1970г.  
(характеристика, единица, месяц, год)

СибУЗМИР  
(институт)

Станция П-Тунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Подцой

Долгота 90°00'    широта 61°36'

поясное время 90°E

Кем подсчитана Петрищевой

| 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      | 2.75  | 2.70  | 2.70  | 2.75  | 2.60  | 2.70  | 2.60  | 2.80  | 2.95  | 3.20  | 3.25  | 3.20  | 3.15 | 3.15  | 3.20  | 3.25  | 3.10  | 3.20R | 3.15  | 3.05  | 3.15  | 3.00  | 3.20F | F     |      |  |  |
| 2      | F     | 2.85F | 3.00  | 3.05R | 3.05  | 3.05F | 3.10F | F     | F     | 3.20R | 3.45  | 3.15  | 3.30 | 3.20  | 3.20  | 3.25  | 3.35  | 3.25  | 3.30  | 3.25  | 3.25  | 3.05  | 2.90F | F     |      |  |  |
| 3      | F     | 2.80F | 2.75F | F     | 2.95  | 2.95F | F     | 3.20F | 3.25  | 3.25  | 3.30  | 3.25  | 3.25 | 3.15R | 3.15R | 3.10  | 3.30  | 3.10  | 3.25  | 3.30F | F     | F     | 3.25F | F     |      |  |  |
| 4      | F     | 2.60F | F     | F     | 2.70F | F     | 3.10F | 2.85F | 3.00  | 3.05  | 3.15S | 3.00  | 3.20 | R     | 3.05F | 3.25  | 3.20  | 3.20  | 3.10  | 3.20  | F     | F     | 3.15  | F     |      |  |  |
| 5      | F     | F     | F     | F     | F     | F     | 2.80  | 3.00F | F     | S     | 3.20  | 3.20  | 3.15 | 3.10  | 3.10  | 3.05  | 3.25  | 3.15  | 3.10  | 3.20  | F     | F     | F     | 3.00F |      |  |  |
| 6      | 2.55F | F     | 2.70  | F     | F     | 2.50F | F     | F     | F     | S     | 3.25  | 3.20  | 3.25 | 3.35  | 3.10  | 3.30  | 3.25  | 3.30R | 3.15  | 3.25  | F     | 2.80F | 2.55  | 2.50  |      |  |  |
| 7      | 2.70  | 2.60R | 2.60  | 2.65  | 2.60F | F     | 2.80F | F     | F     | 3.05  | 3.05F | 3.05  | 3.05 | F     | 3.15F | 3.00  | 3.00  | 3.05  | R     | R     | F     | F     | R     | F     |      |  |  |
| 8      | F     | F     | F     | F     | 2.60F | 2.60F | 2.85  | F     | F     | F     | R     | 3.65  | 3.20 | 3.20  | 3.25  | 3.25  | 3.15  | 3.20  | 3.05  | 3.35  | 3.10F | 3.15  | 2.95  | 2.65  |      |  |  |
| 9      | 2.75  | 2.80  | 2.75  | 2.60  | 2.60  | 2.75  | 2.75  | 2.85F | 3.05F | 3.45S | 3.25  | 3.30  | 3.35 | 3.20  | 3.30  | 3.35  | 3.10  | S     | 3.35R | 3.35  | 3.15  | 2.95  | 2.95  | 2.75  |      |  |  |
| 10     | 2.70  | 2.40  | 2.50F | 2.80F | F     | 2.65  | 2.80F | 2.95F | F     | 3.40  | 3.30  | R     | 3.20 | 3.20  | 3.20  | 3.25  | 3.35  | 3.20  | 3.05  | 2.90F | F     | F     | F     | 2.75  |      |  |  |
| 11     | 2.50  | 2.50  | 2.45  | 2.65  | F     | F     | F     | F     | F     | 3.05  | 3.15  | 3.20  | 3.25 | 2.95  | 3.15  | 2.95  | 3.15  | 2.95  | 3.15  | 3.25  | 3.00  | 2.85  | F     | 2.65  |      |  |  |
| 12     | F     | F     | F     | F     | F     | F     | F     | F     | F     | 3.10  | 3.25  | 3.05  | 3.05 | 3.10  | 3.15  | 3.15  | 3.25  | 3.25  | S     | 3.10  | 3.15  | 2.95  | 2.75  | F     |      |  |  |
| 13     | 2.60F | 2.75F | F     | F     | 2.90F | F     | 2.75  | 2.90F | F     | 3.40  | 3.45  | 3.45  | 3.40 | 3.30  | 3.25  | 3.40  | 3.30  | 3.30  | 3.55  | 3.35  | F     | 2.95F | 2.65  | 2.50  |      |  |  |
| 14     | 2.65F | 2.45F | 2.60F | 2.60F | 2.70F | F     | F     | 2.65F | F     | 3.20F | F     | F     | 3.25 | 3.30  | 3.25  | 3.30  | 3.30  | 3.20  | 3.30  | F     | 3.30  | 3.20F | 2.90F | 2.90  |      |  |  |
| 15     | 2.70F | 2.65F | 2.60  | 2.90F | F     | F     | 2.95  | 2.85  | F     | F     | 3.25S | 3.40  | 3.30 | 3.25  | 3.25  | 3.25  | 3.35F | S     | 3.30  | 3.30  | F     | 3.15F | F     | F     |      |  |  |
| 16     | F     | F     | F     | F     | F     | 2.65  | 3.00  | F     | 2.95F | S     | 3.20  | 3.20  | 3.25 | 3.25  | 3.20  | 3.35R | 3.25  | 3.15  | R     | 3.05  | 3.05  | 3.20  | 3.05  | 3.00  |      |  |  |
| 17     | 2.85  | 2.50  | 2.65  | 2.75F | F     | F     | 2.90F | 2.95  | F     | 3.15S | 3.10R | 3.30R | R    | 3.40  | 3.30  | 3.30  | 3.10  | R     | 3.20  | 3.05  | 3.15  | 3.20F | F     | 3.05  |      |  |  |
| 18     | 2.85  | 3.05F | 2.90F | 3.10F | F     | F     | F     | 3.20F | 3.05  | 3.35  | 3.30  | 3.35  | 3.45 | R     | 3.25  | R     | R     | R     | 3.20R | 3.25S | F     | 2.75  | A     | 2.30  |      |  |  |
| 19     | 2.55  | 2.45  | 2.60  | 2.65  | 2.80  | 2.70  | R     | C     | 3.00  | 3.10  | C     | C     | 3.15 | 3.00  | 3.00F | F     | 3.10  | 3.10S | 3.15R | 3.05  | 3.05  | 2.85  | 2.95  | 2.95  |      |  |  |
| 20     | 3.00  | 2.70  | 2.95  | 2.85  | 2.85  | 2.85  | 2.85  | 3.00  | 3.10F | 3.20  | 3.35  | 3.30  | 3.25 | 3.30  | 3.10F | F     | 3.15  | F     | 3.20  | F     | 3.25  | B     | 3.05  | B     |      |  |  |
| 21     | B     | B     | 2.60  | B     | B     | B     | B     | B     | B     | B     | R     | 3.25  | 3.35 | R     | 3.30  | 3.25  | R     | R     | C     | C     | C     | C     | C     | C     |      |  |  |
| 22     | C     | C     | 2.90  | F     | F     | 2.90F | F     | 2.80F | F     | F     | S     | S     | C    | 3.25  | 3.25R | 3.20  | 3.10  | 3.10  | S     | S     | F     | F     | F     | F     |      |  |  |
| 23     | F     | F     | F     | F     | F     | F     | F     | F     | F     | F     | S     | 3.20  | 3.25 | 3.15  | 3.25  | 3.30  | 3.25  | 3.15S | S     | 3.05F | F     | F     | F     | F     |      |  |  |
| 24     | F     | F     | F     | 2.65F | 2.75F | 2.80F | 2.90  | 2.80  | F     | F     | 3.25  | 3.45S | 3.60 | 3.35  | 3.30  | 3.45  | 3.30  | S     | S     | S     | 3.20  | R     | 2.90  | 2.75  |      |  |  |
| 25     | 2.85S | 2.60  | C     | 2.80  | F     | F     | 2.90  | 3.00  | F     | S     | 3.25S | S     | C    | C     | C     | C     | C     | 3.35S | 3.40  | F     | S     | F     | F     | F     |      |  |  |
| 26     | F     | F     | F     | F     | F     | F     | F     | F     | F     | S     | F     | 3.40  | 3.45 | 3.30  | 3.35  | 3.35  | R     | 3.25  | S     | S     | S     | F     | F     | F     |      |  |  |
| 27     | 2.45F | 2.65F | 2.80F | S     | F     | S     | S     | F     | F     | S     | R     | R     | 3.30 | 3.30  | 3.25  | C     | C     | C     | C     | S     | 3.05S | S     | S     | C     |      |  |  |
| 28     | C     | C     | C     | C     | C     | C     | F     | 3.00F | F     | S     | S     | 3.20  | S    | 3.30S | 3.40  | 3.25  | F     | 3.20  | F     | F     | F     | 3.05F | 2.75  | F     |      |  |  |
| 29     | 2.85F | F     | F     | F     | F     | F     | 2.85F | F     | F     | S     | S     | S     | 3.45 | 3.55  | 3.35  | 3.25  | 3.10  | S     | S     | F     | 3.15F | F     | F     | F     |      |  |  |
| 30     | F     | F     | F     | F     | F     | 2.95F | 3.05  | 2.80F | F     | S     | S     | 3.35S | 3.30 | 3.35  | S     | 3.40S | R     | S     | S     | F     | 3.35F | F     | C     | F     |      |  |  |
| 31     |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |      |  |  |
| кварт. | 2.85  | 2.80  | 2.85  | 2.85  | 2.90  | 2.90  | 3.00  | 3.00  | 3.10  | 3.35  | 3.30  | 3.35  | 3.35 | 3.30  | 3.30  | 3.30  | 3.30  | 3.25  | 3.30  | 3.30  | 3.25  | 3.15  | 3.05  | 3.05  | 3.00 |  |  |
| Месяца | 2.70  | 2.65  | 2.70  | 2.75  | 2.70  | 2.75  | 2.85  | 2.90  | 3.00  | 3.20  | 3.25  | 3.25  | 3.25 | 3.25  | 3.25  | 3.25  | 3.25  | 3.25  | 3.20  | 3.20  | 3.20  | 3.15  | 3.00  | 2.95  | 2.75 |  |  |
| Учтено | 16    | 17    | 17    | 14    | 12    | 13    | 17    | 17    | 8     | 15    | 19    | 23    | 26   | 25    | 28    | 25    | 23    | 20    | 18    | 18    | 15    | 15    | 15    | 13    |      |  |  |
| Ф. нв. | 0.25  | 0.30  | 0.25  | 0.20  | 0.30  | 0.25  | 0.20  | 0.20  | 0.10  | 0.25  | 0.10  | 0.15  | 0.15 | 0.15  | 0.15  | 0.10  | 0.20  | 0.15  | 0.15  | 0.25  | 0.20  | 0.30  | 0.30  | 0.40  |      |  |  |

Пробег частоты от 1 Мгц до 18 Мгц    мин.

Станция автоматическая  
(ручная, автоматическая)

RF КМ ноябрь 1970г  
(характеристика) (единицы) (месяц) (год)

# ИОНОСФЕРНЫЕ ДАННЫЕ

Сиб. измид  
(институт)

Станция П-Пунгуска

Кем составлена Фидинаевой Г.

Долгота 90°00' широта 61°36' поясное время 90°E

Кем подсчитана Петрищевой Т.

| 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       | E 270B | E 280B | E 285E | E 285B | E 280E | E 290B | E 275E | E 260E | 265    | 235 | 225    | 225    | 220    | 215    | 220 | 205    | 215    | 205    | E 200E | E 215B | E 220E | E 240E | E 235E |        |
| 2       | E 250E | E 285E | E 265A | E 270A | E 255E | E 255E | E 245E | E 230E | 230    | 210 | 200    | 210    | 215    | 215    | 220 | 225    | 215    | 205    | E 205E | E 205B | E 210B | E 230E | E 260E | E 265B |
| 3       | E 265E | E 265E | E 255E | E 250E | E 260E | E 260E | E 265E | E 260E | E 230B | 225 | 220    | 215    | 210    | 225    | 215 | 225    | 215    | 210    | 220    | E 200B | E 210E | E 225E | E 230B | E 270E |
| 4       | E 315E | E 310B | E 335B | E 295B | E 275B | E 275B | E 265E | E 255E | 265    | 235 | 235    | 230    | 245    | 230    | 205 | 225    | 215    | 215    | E 210A | E 215B | E 210B | E 245A | E 230B | E 245E |
| 5       | E 275E | E 295E | E 285E | E 300A | E 270E | E 265B | E 275A | E 250B | E 240A | 225 | 220    | 240    | 235    | 230    | 220 | 230    | 225    | 215    | E 210E | E 210B | E 220B | E 230E | E 250E | E 260E |
| 6       | E 240E | E 270E | E 270B | E 285E | E 295E | E 355E | E 335A | E 290A | 265    | 220 | 230    | 220    | 220    | 220    | 220 | 225    | 205    | 210    | E 210B | E 215E | E 240B | E 250B | E 300B | E 320B |
| 7       | E 290E | E 250E | E 300A | E 280B | E 305B | E 305E | E 310E | E 310E | 270    | 245 | 250    | 255    | E 250B | 235    | 235 | 235    | E 245  | 230    | 330    | E 400A | E 400A | 340    | E 320A | E 335B |
| 8       | E 285A | E 205E | E 280A | E 270A | E 285B | E 280E | E 255B | E 255B | 235    | 215 | 205    | 225    | 215    | 210    | 210 | 215    | 200    | 200    | E 210E | E 210E | E 220E | E 225A | E 245E | E 265E |
| 9       | E 275E | E 290A | E 275E | E 315B | E 315B | E 315A | E 305A | E 275A | E 240E | 215 | 210    | 215    | 220    | 210    | 210 | 205    | 205    | 210    | E 210E | E 210E | E 225E | E 230E | E 255E | E 290B |
| 10      | E 345B | E 365E | E 365E | E 315E | E 335A | E 305E | E 280E | E 265E | 260    | 230 | 220    | 225    | 215    | 210    | 210 | 210    | 200    | 200    | E 205B | E 250B | E 235B | E 265B | E 250E | E 290B |
| 11      | E 360E | E 360B | E 360B | E 345E | E 350E | E 320B | E 300A | E 275E | 280    | 260 | 245    | 235    | 235    | 230    | 230 | 220    | 210    | 220    | E 210B | E 210B | E 245E | E 260B | E 260B | E 315E |
| 12      | E 375E | E 385E | E 340E | E 385B | E 340B | E 270E | E 280E | E 265A | E 250E | 235 | 226    | 225    | 220    | 220    | 210 | 220    | 210    | 215    | E 215E | E 220B | E 220B | E 240E | E 270B | E 305E |
| 13      | E 310E | E 310E | E 300E | E 285E | E 285E | E 310E | E 295E | E 290E | E 255E | 230 | 230    | 230    | 225    | 220    | 230 | 220    | 225    | 215    | E 195B | E 230B | E 215B | E 265B | E 300E | E 336E |
| 14      | E 320E | E 330E | E 345E | E 340E | E 325E | E 320E | E 310E | E 280E | E 280E | 245 | 235    | 235    | 230    | 230    | 215 | 230    | 215    | 220    | E 200B | E 200B | E 215B | E 225E | E 255E | E 285B |
| 15      | E 305E | E 345A | E 360A | E 330E | E 295E | E 285B | E 295A | E 290B | E 275A | 230 | 225    | 220    | 215    | 230    | 215 | 220    | 210    | E 190A | E 225A | E 230A | E 220A | E 265A | E 265A | E 280A |
| 16      | E 280B | E 260A | E 275E | E 310A | E 285B | E 295A | E 260A | E 235A | E 225A | 215 | 220    | 215    | 220    | 220    | 215 | 220    | 200    | 210    | 215    | E 220A | E 245A | E 230A | E 250B | E 245E |
| 17      | E 275E | E 330B | E 285E | E 280E | E 280E | E 270E | E 280E | E 255E | E 235E | 235 | E 230B | E 210B | 210    | 225    | 200 | 220    | 210    | 215    | E 215B | E 215B | E 215B | E 235E | E 240B | E 245E |
| 18      | E 265B | E 260B | E 260E | E 255E | E 265E | E 260B | E 260E | E 245E | E 225B | 230 | 225    | 210    | 220    | 200    | 215 | 215    | 215    | 205    | E 195B | E 200B | E 230B | E 255B | A      | E 420B |
| 19      | E 360B | E 340B | E 320B | E 315B | E 310B | E 350B | E 300B | E 300B | E 255B | 245 | C      | C      | 250    | 245    | 240 | 230    | 230    | 215    | E 225B | E 235B | E 230B | E 255B | E 250B | E 260B |
| 20      | E 285B | E 280B | E 275B | E 285E | E 305B | E 295E | E 295B | E 275B | E 230E | 235 | 225    | 225    | 215    | 220    | 200 | 205    | 205    | E 200E | E 205E | E 195E | E 220E | B      | E 250E | B      |
| 21      | B      | B      | E 350B | B      | B      | B      | B      | B      | B      | B   | 216    | 225    | 215    | E 215B | 215 | 215    | E 205B | E 245B | C      | C      | C      | C      | C      | C      |
| 22      | C      | C      | E 265E | E 270E | E 290B | E 285E | E 280E | E 260E | 270    | 250 | 250    | 230    | 225    | 220    | 205 | 215    | 215    | 200    | E 215B | E 215E | E 230E | E 225E | E 320E | E 355E |
| 23      | E 390E | E 305A | E 300A | E 290E | E 275E | E 260E | E 250E | E 245E | E 245A | 260 | 235    | 225    | 230    | 215    | 215 | 215    | 200    | 210    | E 205B | E 240B | E 215E | E 285A | E 250E | 320    |
| 24      | E 335E | E 330E | E 320E | E 325E | E 315E | E 305E | E 310E | E 360A | E 255E | 250 | 230    | 215    | 210    | 215    | 210 | 210    | 200    | E 200E | E 200E | E 205E | E 205E | E 230E | E 255B | E 275E |
| 25      | E 310E | E 360E | E 360B | E 335E | E 285E | E 285E | E 290E | E 275E | E 260E | 255 | 225    | 225    | C      | C      | C   | C      | C      | 210    | E 210B | E 205E | E 220E | E 230E | E 255E | E 290E |
| 26      | E 305E | E 320E | E 320E | E 320E | E 270E | E 250E | E 250E | E 245E | E 220E | 230 | 205    | 216    | 205    | 210    | 210 | 210    | 195    | E 205E | E 200E | E 210E | E 220E | E 255E | E 275E | E 325E |
| 27      | E 390E | E 355E | E 305E | E 310E | E 360E | E 320E | E 300E | E 275E | E 230E | 230 | 215    | 210    | 215    | 215    | 210 | C      | C      | C      | C      | E 215E | E 240E | E 270E | E 310E | C      |
| 28      | C      | C      | C      | C      | C      | C      | E 260E | E 275A | E 230E | 235 | 215    | 210    | 205    | 200    | 210 | 210    | 200    | 200    | E 200A | E 205B | E 225E | E 255E | E 270E | E 265E |
| 29      | E 280E | E 275E | E 250E | E 270E | E 276E | E 280E | E 270E | E 255E | E 245A | 235 | 205    | 210    | 210    | 215    | 215 | E 215B | 205    | E 200A | E 215E | E 215A | E 230A | E 225E | E 310E | E 330E |
| 30      | E 335E | E 325E | E 285E | E 310B | E 276E | E 260B | E 235E | E 225A | E 245B | 225 | E 310A | 225    | E 205B | 210    | 200 | 220    | 205    | E 215A | E 210A | E 210E | E 230A | E 270E | C      | E 265E |
| 31      |        |        |        |        |        |        |        |        |        |     |        |        |        |        |     |        |        |        |        |        |        |        |        |        |
| B       | E 335  | E 330  | E 340  | E 320  | E 310  | E 310  | E 300  | E 280  | E 260  | 245 | 230    | 230    | E 230  | 230    | 220 | 225    | 215    | 215    | E 215  | E 220  | E 230  | E 260  | E 275  | E 320  |
| H       | E 275  | E 275  | E 275  | E 280  | E 276  | E 270  | E 260  | E 250  | E 230  | 225 | 215    | 215    | 210    | 210    | 210 | 215    | 200    | 200    | E 205  | E 205  | E 215  | E 230  | E 250  | E 260  |
| Медиана | E 305  | 305    | E 300  | E 300  | E 285  | E 285  | E 280  | E 265  | E 245  | 235 | 225    | 225    | 220    | 220    | 215 | 220    | 210    | 210    | E 210  | E 210  | E 220  | E 240  | E 255  | E 285  |
| Учтено  | 27     | 27     | 29     | 28     | 28     | 28     | 29     | 29     | 29     | 29  | 29     | 29     | 29     | 29     | 29  | 29     | 28     | 29     | 28     | 29     | 29     | 28     | 27     | 27     |
| Р.К.    | 60     | 55     | 65     | 40     | 35     | 40     | 40     | 30     | 30     | 20  | 15     | 15     | 20     | 20     | 10  | 10     | 15     | 15     | 10     | 15     | 15     | 30     | 25     | 60     |

Пробег частоты от 1 Мгц до 18 Мгц мин

Станция автоматическая  
(ручная, автоматическая)

точность отсчёта: ± 5 км

# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

И'Е км ноябрь 1970 г

(характеристика, единица, месяц, год)

СибИЗМИР

Институт

Станция П-Тунгуско

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Никищевой Г

Долгота 90° широта 61°36'

поясное время 90°E

Кем подсчитана Хрипучовской Н

| 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      | 100H   | 100H   | 100    | 105    | 100    | E 105B | E 100B | E 100B | A      | E  |    |    |    |    |    |
| 2       |    |    |    |    |    |    |    |    | B      | 115H   | 110    | 105    | 100    | 105    | 100    | 95     | E 100E | B      |    |    |    |    |    |    |
| 3       |    |    |    |    |    |    |    |    | E      | 110B   | 105    | 105    | 105    | 100    | 100H   | 110    | E 120B | B      | A  |    |    |    |    |    |
| 4       |    |    |    |    |    |    |    |    | A      | 110    | A      | 105    | 100    | 100    | 100    | 110    | 100H   | E 115E |    |    |    |    |    |    |
| 5       |    |    |    |    |    |    |    |    | A      | 95     | 110    | 110    | 100    | 100    | 100    | 110    | 100    | E 120B |    |    |    |    |    |    |
| 6       |    |    |    |    |    |    |    |    | E      | A      | E 125A | E 130A | 120    | 115    | 100H   | E 125B | E 125B | B      |    |    |    |    |    |    |
| 7       |    |    |    |    |    |    |    |    | E 125E | 105    | 110    | 110    | B      | 110    | 110    | E 110B | B      | 120    |    |    |    |    |    |    |
| 8       |    |    |    |    |    |    |    |    | E 140E | 105    | 105    | E 130A | 100    | E 130A | 100H   | 100H   | E 120B | B      |    |    |    |    |    |    |
| 9       |    |    |    |    |    |    |    |    |        | 100    | E 100B | E 110B | 100    | E 105B | E 115B | E 120B | E 120B | 115    |    |    |    |    |    |    |
| 10      |    |    |    |    |    |    |    |    | E      | 100H   | 105    | 100    | 100    | 105    | E 120A | E 130A | E 135B | E 125E |    |    |    |    |    |    |
| 11      |    |    |    |    |    |    |    |    | A      | E 100B | 110    | 105    | 105    | E 120B | E 115B | E 135B | E 100B | A      |    |    |    |    |    |    |
| 12      |    |    |    |    |    |    |    |    |        | 110    | 105H   | 105H   | E 150A | 95     | 120    | E 115B | E 125B | E 125E |    |    |    |    |    |    |
| 13      |    |    |    |    |    |    |    |    | A      | A      | 100H   | 100H   | E 110A | E 120A | E 120A | 95     | B      |        |    |    |    |    |    |    |
| 14      |    |    |    |    |    |    |    |    | A      | A      | E 150B | E 140A | E 120A | E 150A | E 150A | A      | E 140E |        |    |    |    |    |    |    |
| 15      |    |    |    |    |    |    |    |    | A      | A      | A      | A      | 90     | A      | B      | A      |        |        |    |    |    |    |    |    |
| 16      |    |    |    |    |    |    |    |    | A      | E 120B | B      | 95     | A      | B      | A      | A      | A      | A      |    |    |    |    |    |    |
| 17      |    |    |    |    |    |    |    |    | E 110B | A      | B      | B      | E 125B | E 115B | B      | E 140B | B      |        |    |    |    |    |    |    |
| 18      |    |    |    |    |    |    |    |    | A      | 110    | E 115B | 110    | 100    | E 120B | E 130B | A      | A      |        |    |    |    |    |    |    |
| 19      |    |    |    |    |    |    |    |    | E 110B | C      | C      | 120    | 120    | 115    | E 130B | B      | B      |        |    |    |    |    |    |    |
| 20      |    |    |    |    |    |    |    |    | A      | A      | A      | A      | A      | B      | E 105A | E 145A | E 140A |        |    |    |    |    |    |    |
| 21      |    |    |    |    |    |    |    |    | B      | B      | B      | E 115B | E 110B | E 130B | E 110B | E 125B | B      | B      | C  |    |    |    |    |    |
| 22      |    |    |    |    |    |    |    |    | A      | E 150A | E 130A | E 120A | 115H   | 100H   | E 120A | E 110A | A      | A      |    |    |    |    |    |    |
| 23      |    |    |    |    |    |    |    |    | A      | E 115A | E 135A | 100H   | 90     | E 150A | E 130A | 95     | 95     | E      |    |    |    |    |    |    |
| 24      |    |    |    |    |    |    |    |    | E 120A | A      | E 150A | E 135A | E 120A | E 120A | A      | E 150A |        |        |    |    |    |    |    |    |
| 25      |    |    |    |    |    |    |    |    | 115    | E 140A | 130    | C      | C      | C      | C      | C      | C      | E      |    |    |    |    |    |    |
| 26      |    |    |    |    |    |    |    |    | E 130E | 100    | 105    | 105H   | E 115B | 95     | E 145B | 100    |        |        |    |    |    |    |    |    |
| 27      |    |    |    |    |    |    |    |    | 140    | A      | 100A   | 90     | 90     | 95     | C      | C      | C      | C      |    |    |    |    |    |    |
| 28      |    |    |    |    |    |    |    |    | S      | 90     | A      | A      | A      | B      | 90     | A      | 95     | A      |    |    |    |    |    |    |
| 29      |    |    |    |    |    |    |    |    | A      | A      | A      | 90     | B      | B      | B      | A      |        |        |    |    |    |    |    |    |
| 30      |    |    |    |    |    |    |    |    | A      | A      | B      | B      | E 140A | E 120B | B      | A      |        |        |    |    |    |    |    |    |
| 31      |    |    |    |    |    |    |    |    |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| Медiana |    |    |    |    |    |    |    |    | E 125  | V 105  | V 105  | V 105  | V 100  | V 100  | E 115  | E 120  | E 120  | E 120  | E  |    |    |    |    |    |
| Учено   |    |    |    |    |    |    |    |    | 4      | 19     | 18     | 22     | 23     | 25     | 25     | 22     | 17     | 10     | 1  |    |    |    |    |    |

Пробег частоты от 1 МГц до 18 МГц мин.

Станция автоматическая  
(ручная, автоматическая)

Точность отчета: ± 5 км



# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

*h'Es* км ноябрь 1970г  
(характеристика, единица, месяц, год)

СибИЗМИР  
(институт)

Станция П-Тунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Никишавой Г.

Долгота 90° широта 61°36'

поясное время 90°E

Кем подсчитана Фёдоровой М.

| 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  | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|
| 1      | B   | B   | E   | B   | E   | B   | E   | E   | G   | G     | G     | G   | G   | G   | G   | G   | G   | G   | G   | E   | B   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 2      | 100 | E   | 100 | 100 | E   | E   | E   | E   | G   | E140G | G     | G   | G   | G   | G   | G   | G   | G   | E   | B   | B   | E   | E   | B   |    |    |    |    |    |    |    |    |
| 3      | E   | E   | E   | E   | E   | E   | E   | E   | B   | E130G | E130G | G   | G   | G   | G   | G   | G   | G   | 100 | B   | E   | E   | B   | E   |    |    |    |    |    |    |    |    |
| 4      | E   | B   | B   | B   | B   | 105 | 105 | 110 | 110 | G     | 110   | 105 | 100 | G   | G   | G   | G   | G   | 95  | 90  | 95  | 95  | B   | 120 |    |    |    |    |    |    |    |    |
| 5      | 110 | 100 | 100 | 100 | E   | B   | 90  | 90  | 95  | 110   | G     | G   | G   | G   | G   | G   | G   | G   | E   | B   | B   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 6      | E   | E   | B   | E   | 110 | 110 | 90  | 90  | G   | 100   | 100   | 100 | 100 | 100 | G   | G   | G   | G   | B   | E   | B   | B   | B   | B   |    |    |    |    |    |    |    |    |
| 7      | E   | E   | 100 | B   | B   | E   | E   | E   | G   | G     | G     | G   | B   | G   | G   | G   | G   | B   | G   | 130 | 170 | 145 | 155 | 145 | B  |    |    |    |    |    |    |    |
| 8      | 110 | E   | 100 | 125 | B   | E   | B   | B   | G   | G     | G     | 100 | G   | 100 | G   | G   | G   | G   | E   | 95  | E   | 100 | 110 | 105 |    |    |    |    |    |    |    |    |
| 9      | E   | 100 | E   | B   | B   | 90  | 95  | 95  | E   | G     | G     | G   | G   | G   | G   | 125 | G   | G   | E   | E   | E   | E   | E   | B   |    |    |    |    |    |    |    |    |
| 10     | B   | E   | E   | E   | 130 | 125 | E   | E   | 95  | G     | G     | G   | G   | G   | 90  | 80  | G   | G   | B   | B   | 90  | B   | E   | E   |    |    |    |    |    |    |    |    |
| 11     | E   | B   | B   | E   | 95  | B   | 100 | 90  | 100 | G     | G     | G   | G   | G   | G   | G   | G   | G   | 95  | B   | B   | E   | B   | B   | E  |    |    |    |    |    |    |    |
| 12     | E   | E   | E   | 145 | B   | E   | 100 | 100 | E   | G     | G     | G   | 100 | G   | G   | G   | G   | G   | E   | B   | B   | E   | B   | E   |    |    |    |    |    |    |    |    |
| 13     | E   | E   | E   | 115 | E   | 100 | E   | E   | 110 | 110   | 100   | G   | G   | 100 | 100 | 100 | G   | G   | B   | B   | B   | B   | E   | E   |    |    |    |    |    |    |    |    |
| 14     | E   | E   | E   | E   | E   | 100 | 110 | 105 | 100 | 100   | 100   | G   | 80  | 85  | 85  | 90  | 95  | G   | B   | B   | B   | E   | E   | B   |    |    |    |    |    |    |    |    |
| 15     | E   | 100 | 100 | 90  | E   | B   | 100 | 95  | 95  | 100   | 95    | 95  | 90  | G   | 85  | G   | 90  | 90  | 95  | 100 | 100 | 100 | 100 | 100 |    |    |    |    |    |    |    |    |
| 16     | 110 | 100 | 100 | 100 | B   | 95  | 95  | 100 | 100 | 100   | G     | G   | G   | 80  | G   | 105 | 95  | 100 | 100 | 95  | 95  | 90  | B   | E   |    |    |    |    |    |    |    |    |
| 17     | E   | B   | E   | 100 | 100 | E   | E   | E   | E   | G     | 110   | B   | G   | G   | G   | G   | G   | G   | B   | B   | B   | E   | 105 | E   |    |    |    |    |    |    |    |    |
| 18     | B   | B   | E   | E   | E   | B   | E   | E   | B   | 110   | G     | G   | G   | G   | G   | G   | 100 | 100 | B   | B   | B   | B   | 130 | 110 |    |    |    |    |    |    |    |    |
| 19     | B   | B   | B   | B   | B   | B   | B   | B   | B   | G     | G     | G   | G   | G   | G   | G   | G   | G   | B   | B   | B   | B   | B   | B   |    |    |    |    |    |    |    |    |
| 20     | 110 | B   | B   | E   | 105 | E   | B   | B   | E   | 110   | 105   | 105 | 110 | B   | 80  | 80  | 90  | E   | E   | E   | E   | B   | E   | B   |    |    |    |    |    |    |    |    |
| 21     | B   | B   | 105 | B   | B   | B   | B   | B   | B   | B     | G     | G   | G   | G   | G   | G   | B   | B   | C   | C   | C   | C   | C   | C   |    |    |    |    |    |    |    |    |
| 22     | C   | C   | E   | E   | B   | E   | E   | E   | 110 | 105   | 100   | 100 | 100 | G   | 90  | 95  | 85  | 85  | B   | E   | E   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 23     | E   | 135 | 100 | E   | E   | E   | E   | E   | 100 | 100   | 105   | G   | G   | 90  | 90  | G   | G   | 90  | B   | B   | E   | 125 | 120 | 135 |    |    |    |    |    |    |    |    |
| 24     | 155 | 140 | 160 | E   | E   | E   | 105 | 110 | 105 | 105   | 105   | 95  | 100 | 95  | 80  | 80  | 90  | 90  | 95  | E   | E   | E   | B   | E   |    |    |    |    |    |    |    |    |
| 25     | E   | E   | B   | E   | E   | E   | E   | E   | E   | G     | G     | G   | C   | C   | C   | C   | C   | 90  | B   | E   | E   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 26     | E   | E   | 130 | 135 | E   | E   | E   | 100 | E   | G     | 120   | 115 | G   | G   | G   | G   | G   | E   | E   | E   | E   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 27     | E   | E   | E   | E   | E   | E   | 100 | 100 | E   | 140   | 95    | 120 | 110 | G   | G   | C   | C   | C   | C   | E   | E   | E   | E   | C   |    |    |    |    |    |    |    |    |
| 28     | C   | C   | C   | C   | C   | C   | 105 | 100 | E   | G     | G     | 90  | 85  | 95  | G   | G   | 95  | 95  | 95  | B   | E   | E   | E   | E   |    |    |    |    |    |    |    |    |
| 29     | E   | E   | E   | E   | E   | E   | E   | E   | 100 | 105   | 100   | 105 | G   | G   | G   | B   | 100 | 95  | 90  | 95  | 90  | E   | E   | E   |    |    |    |    |    |    |    |    |
| 30     | E   | E   | E   | B   | E   | B   | E   | 110 | B   | 125   | 115   | 115 | B   | 105 | G   | G   | 100 | 105 | 100 | E   | 115 | E   | E   | 130 |    |    |    |    |    |    |    |    |
| 31     |     |     |     |     |     |     |     |     |     |       |       |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |
| Мелаяя | 110 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 105   | 100   | 100 | 100 | 95  | 90  | 90  | 95  | 95  | 95  | 95  | 95  | 100 | 115 | 115 |    |    |    |    |    |    |    |    |
| Учено  | 6   | 6   | 10  | 9   | 5   | 7   | 12  | 14  | 12  | 14    | 16    | 13  | 10  | 9   | 8   | 8   | 10  | 11  | 9   | 6   | 7   | 6   | 6   | 6   |    |    |    |    |    |    |    |    |

Пробег частоты от 1 Мгц до 18 Мгц мин.  
Точность отчета: ± 5 км

Станция автоматическая  
(ручная, автоматическая)



# МЕЖДУНАРОДНЫЙ ГЕОФИЗИЧЕСКИЙ ГОД

тип Es ноябрь 1970  
(характеристика, единица, месяц, год)

СибИЗМИР  
(институт)

Станция П-Мунгуска

## ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Федоровой

Долгота 90° широта 61°36'

поясное время 90°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       |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       | $l_1$ |       |       |       |       |       |       |       |
| 2       | $f_1$ |       | $f_2$      | $f_2$ |       |       |       |       |       |       | $c_1$      |            |       |       |       |       |       |       | $l_1$ |       |       |       |       |       |       |
| 3       |       |       |            |       |       |       |       |       |       |       | $c_1$      | $c_1$      |       |       |       |       |       |       | $l_1$ |       |       |       |       |       |       |
| 4       |       |       |            |       |       | $f_1$ | $f_1$ | $f_1$ | $l_2$ |       | $l_2$      | $c_2$      | $c_1$ |       |       |       |       |       | $f_1$ | $f_1$ | $f_1$ | $f_1$ |       | $f_1$ |       |
| 5       | $f_1$ | $f_1$ | $f_2$      | $f_2$ |       |       | $f_1$ | $f_1$ | $l_1$ | $l_2$ |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 6       |       |       |            |       | $f_2$ | $f_2$ | $f_2$ | $f_3$ |       | $l_1$ | $l_1$      | $l_2$      | $l_1$ | $l_1$ |       |       |       |       |       |       |       |       |       |       |       |
| 7       |       |       | $f_2$      |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       | $z_1$ | $z_1$ | $z_1$ | $z_1$ | $z_1$ |       |       |
| 8       | $f_1$ |       | $l_1; z_1$ | $f_1$ |       |       |       |       |       |       |            | $l_2$      |       | $l_1$ |       |       |       |       |       | $f_1$ |       | $f_1$ | $f_1$ | $f_2$ |       |
| 9       |       | $f_1$ |            |       |       | $f_2$ | $f_2$ | $f_1$ |       |       |            |            |       |       |       | $c_1$ |       |       |       |       |       |       |       |       |       |
| 10      |       |       |            |       | $f_2$ | $f_1$ |       |       | $l_1$ |       |            |            |       |       | $l_1$ | $l_1$ |       |       |       |       | $f_1$ |       |       |       |       |
| 11      |       |       |            |       | $f_1$ |       | $f_1$ | $f_1$ | $l_1$ |       |            |            |       |       |       |       |       | $l_1$ |       |       |       |       |       |       |       |
| 12      |       |       |            | $f_1$ |       |       | $f_1$ | $f_1$ |       |       |            |            | $l_1$ |       |       |       |       |       |       |       |       |       |       |       |       |
| 13      |       |       |            | $f_1$ |       | $f_1$ |       |       | $f_1$ | $l_2$ | $l_1$      |            |       | $l_1$ | $l_1$ | $l_1$ |       |       |       |       |       |       |       |       |       |
| 14      |       |       |            |       |       | $f_1$ | $f_2$ | $f_1$ | $f_2$ | $l_1$ | $l_2$      |            | $l_1$ | $l_1$ | $c_1$ | $l_1$ | $l_1$ |       |       |       |       |       |       |       |       |
| 15      |       | $f_1$ | $f_1$      | $f_1$ |       |       | $f_1$ | $f_1$ | $f_2$ | $l_2$ | $l_1$      | $l_1$      | $l_1$ |       | $l_1$ |       | $z_1$ | $z_2$ | $f_3$ | $f_2$ | $f_2$ | $f_2$ | $f_1$ | $z_1$ |       |
| 16      | $f_1$ | $f_1$ | $f_1$      | $f_1$ |       | $f_1$ | $f_1$ | $f_1$ | $f_2$ | $l_1$ |            |            |       | $l_1$ |       | $l_1$ | $l_1$ | $l_1$ | $l_2$ | $f_2$ | $f_2$ | $f_1$ |       |       |       |
| 17      |       |       |            | $f_1$ | $f_1$ |       |       |       |       |       | $l_1$      |            |       |       |       |       |       |       |       |       |       |       |       | $f_1$ |       |
| 18      |       |       |            |       |       |       |       |       |       | $l_1$ |            |            |       |       |       |       |       | $l_1$ | $l_1$ |       |       |       |       | $z_2$ | $f_1$ |
| 19      |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 20      | $f_1$ |       |            |       | $f_1$ |       |       |       |       | $l_1$ | $l_1$      | $l_1$      | $l_1$ |       | $l_1$ | $l_1$ | $l_1$ |       |       |       |       |       |       |       |       |
| 21      |       |       | $f_1$      |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 22      |       |       |            |       |       |       |       |       | $c_1$ | $l_2$ | $l_1; c_1$ | $l_1; c_1$ | $l_1$ |       | $l_1$ | $l_1$ | $l_2$ | $l_1$ |       |       |       |       | $f_2$ | $f_3$ | $z_1$ |
| 23      |       | $f_1$ | $f_1$      |       |       |       |       |       | $l_1$ | $l_1$ | $l_1$      |            |       | $l_1$ | $l_1$ | $l_1$ | $l_1$ | $l_1$ |       |       |       |       | $f_2$ | $f_3$ | $z_1$ |
| 24      | $z_1$ | $z_1$ | $f_1$      |       |       |       | $l_1$ | $f_1$ | $l_1$ | $l_2$ | $l_1$      | $l_1$      | $l_1$ | $l_1$ | $l_1$ | $l_1$ | $l_1$ | $f_1$ | $f_1$ |       |       |       |       |       |       |
| 25      |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       | $l_1$ |       |       |       |       |       |       |
| 26      |       |       | $f_1$      | $f_1$ |       |       |       |       |       |       | $c_1$      | $c_1$      |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 27      |       |       |            |       |       |       | $f_2$ | $f_2$ |       | $c_1$ | $c_1; l_1$ | $c_1$      | $c_1$ |       |       |       |       |       |       |       |       |       |       |       |       |
| 28      |       |       |            |       |       |       | $f_2$ | $f_2$ |       |       |            | $l_1$      | $l_1$ | $l_1$ |       |       | $l_1$ | $l_1$ | $l_1$ |       |       |       |       |       |       |
| 29      |       |       |            |       |       |       |       |       | $f_1$ | $l_1$ | $l_1$      | $l_1$      |       |       |       |       | $l_1$ | $f_1$ | $f_1$ | $f_1$ | $f_1$ | $f_1$ |       |       |       |
| 30      |       |       |            |       |       |       |       | $f_1$ |       | $l_1$ | $l_1$      | $c_1$      |       | $l_1$ |       |       | $l_1$ | $f_1$ | $f_1$ |       |       | $f_1$ |       | $f_1$ |       |
| 31      |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Меллана |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Учено   |       |       |            |       |       |       |       |       |       |       |            |            |       |       |       |       |       |       |       |       |       |       |       |       |       |

Пробег частоты от 1 Мгц до 18 Мгц мин.

Станция автоматическая  
(ручная, автоматическая)