

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

5072 от МГУ ЯНВАРЬ 1969г
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Долгота 44°48'E широта 41°43'N

поясное время 45°E

Кем подсчитана ЛОМАШВИЛИ Л.Г.

| 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 | 35 | 38 | 38 | 40 | 40 | 35 | I34A | 40 | 89 | c | c | 95 | 100H | 97 | 100 | 95 | 90H | 82 | 56 | 35 | 29 | I32A | 35 | 37 | |
| 2 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 3 | c | 35 | 35 | 34 | 38 | 42 | 35 | 33 | 61 | c | c | c | c | c | c | 81 | R | 80 | 56 | 27 | c | c | c | c | |
| 4 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 67 | U78R | 56 | 44 | 33 | 29 | 34 | 38 | |
| 5 | 37 | 40 | 37 | 41N | 44N | 45 | 47N | N | c | c | 110H | 100 | 98 | 90 | 88 | 70 | 70H | 80 | 70H | 40H | 24 | 28 | 32 | 35 | |
| 6 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 7 | c | 40 | 34 | 35 | 39 | 42 | 44 | 48 | R | I94c | I96c | c | c | c | c | c | c | R | R | 50 | 35 | I31R | 33 | c | |
| 8 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 9 | c | c | 43 | 44 | 43 | 43 | 34 | 36 | 75 | I97c | 90 | 95 | 93 | 100 | 104 | 100 | 86H | 77H | 75H | 55H | 45 | 40H | 40 | 41 | |
| 10 | 40 | 38 | 37 | 37 | 35 | 37 | 38 | U48R | 70 | 90 | U101c | U100c | 90 | 84 | 90 | R | 74 | 79 | 59 | 45 | 34 | 24 | 32 | 34 | |
| 11 | 36 | 36 | 37 | 39 | 41 | 43 | 30 | 37 | U60R | 92 | 98 | 89 | 88 | I89c | 90 | 80 | 69 | I70R | 54 | 41 | c | c | c | c | |
| 12 | c | 38 | 39 | I39c | I41R | 45 | 50 | 47 | I70c | I88c | I88c | I85c | c | c | c | c | c | I83c | 60 | 43 | 28 | A | F | 41 | |
| 13 | 46 | 45 | 43N | N | 44N | 50 | 40 | 42 | 70H | 90 | 102 | I97c | 95H | c | c | c | c | c | c | c | c | c | 27 | c | |
| 14 | c | c | c | c | c | c | c | c | c | c | 100 | 93 | 91 | 89 | 94 | 96 | 76 | 70 | 58 | 38 | 37 | 37 | 42F | 43 | |
| 15 | c | U46R | F | 47 | F | 46 | F | 43 | 71 | 86 | I100c | I112c | I97c | I95c | 105 | 94 | 84 | 76 | c | c | c | c | c | c | |
| 16 | 47 | U48R | 55 | 58 | 40 | 36 | 35 | 46 | U80R | c | U108R | I98c | I95c | 97 | 97 | 90 | 80 | 84 | I72R | 47 | 38 | 32 | 34 | 34 | |
| 17 | c | c | c | c | c | c | c | M | 80 | 99 | 95 | 107 | 110 | 103 | I99c | c | c | c | c | c | c | c | c | c | |
| 18 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 19 | 34 | 34 | 35 | 37 | 38 | 38 | 28 | U43R | S | c | c | U110c | I102c | 100 | U100R | U82R | c | c | c | c | c | R | U27R | R | U31R |
| 20 | c | 34 | 34 | 38 | 35 | 33 | I24c | I38c | c | c | c | I97c | 84 | c | c | c | c | c | c | c | c | c | c | c | |
| 21 | 40V | 39V | U40F | U40F | F | F | U40F | 44 | 83 | 85 | 103 | 100 | 83 | 82 | 90 | 91 | 79 | 57 | 48 | 40 | 32 | 25 | U28R | 30 | |
| 22 | 34 | 36 | 38 | 37V | 36 | 36V | 35 | 45 | I72c | 87 | I96c | 90 | 79 | 76 | I82c | I83c | 78 | I64c | 35 | c | c | c | c | c | |
| 23 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 24 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 47 | 50 | 39 | 34 | 38 | 140c | |
| 25 | c | 37 | 38 | 41 | 38 | I36F | F | F | U91R | U96R | 114 | 110 | I106c | I102c | 93 | 91 | I80c | 70 | I53c | 41 | 36 | c | c | c | |
| 26 | c | 37 | 39 | 38 | 34 | 24 | 24 | 42 | c | c | c | c | c | c | c | c | 76 | 73 | 64 | 56 | 40 | 34 | 34 | 35 | |
| 27 | 38 | 37 | 37 | 38 | 41 | 41 | 39N | 45 | I65c | 84 | I106c | 120 | 100H | I88c | 87 | c | c | c | c | 43 | 26 | 34 | 36 | 37 | |
| 28 | c | c | c | c | c | c | c | 45 | 100 | c | c | I89c | 90 | 86 | 95 | 84 | 71 | 62 | U40R | 41 | 42 | 39 | 39 | 42 | |
| 29 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 30 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 31 | c | 36N | 37N | 36 | 36 | 38 | 37 | 52 | 73 | I89c | I101c | 106 | 86 | 77 | 83 | 79 | 74 | 68 | I62c | 50 | 32 | 35 | 37 | 41 | |
| Медиага | 5 | 4 | 3 | 4 | 5 | 7 | 8 | 5 | 11 | 9 | 8 | 17 | 12 | 13 | 11 | 13 | 9 | 11 | 13 | 10 | 8 | 7 | 6 | 7 | |
| Учено | 10 | 18 | 18 | 18 | 17 | 18 | 17 | 18 | 16 | 13 | 16 | 19 | 18 | 16 | 16 | 14 | 15 | 17 | 17 | 18 | 16 | 15 | 15 | 15 | |
| | 35/40 | 36/40 | 36/39 | 37/41 | 36/41 | 36/43 | 32/40 | 40/45 | 70/81 | 86/95 | 96/104 | 93/110 | 88/100 | 85/98 | 89/100 | 81/94 | 71/80 | 69/80 | 50/63 | 40/50 | 30/38 | 28/35 | 32/38 | 37/41 | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая

(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

f_oF_1 от Мгц. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Госуниверситет
(институт)

Станция Тбилиси

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломтавили

Долгота 44° 48' E широта 41° 43' N

поясное время 45° 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 | | | | | | | | | | с | с | | | | | | | | | | | | | |
| 2 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 3 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 4 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 5 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 6 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 7 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 8 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 9 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 10 | | | | | | | | | | | с | с | с | с | с | с | | | | | | | | |
| 11 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 12 | | | | | | | | | | | с | с | с | с | с | с | | | | | | | | |
| 13 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 14 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 15 | | | | | | | | | | | с | с | с | с | с | с | | | | | | | | |
| 16 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 17 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 18 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 19 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 20 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 21 | | | | | | | | | | | с | с | с | с | с | с | | | | | | | | |
| 22 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 23 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 24 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 25 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 26 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 27 | | | | | | | | | | | | с | с | с | с | с | | | | | | | | |
| 28 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 29 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 30 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 31 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| Медиана | | | | | | | | | | | | | | | | | | | | | | | | |
| Учено | | | | | | | | | | | | | | | | | | | | | | | | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая.

(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

f₀E о_у МГц ЯНВАРЬ 1969 г.
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция Тбилиси

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Долгота 44°48'E широта 41°43'N

поясное время 45°E

Кем подсчитана ЛОМАШВИЛИ Л.Г.

| 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 | | | | | | | | 150 | 220 | I270A | C | C | 300 | I315C | I310C | I280C | 230H | E | | | | | | |
| 2 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 3 | | | | | | | | | 200H | C | C | C | C | C | C | U250R | A | A | | | | | | |
| 4 | | | | | | | | C | C | C | C | C | C | C | C | C | U220R | E | | | | | | |
| 5 | | | | | | | | 200 | 260 | 310 | 320 | 320 | 320 | 320 | 300 | 280 | 210 | A | | | | | | |
| 6 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 7 | | | | | | | | | 235 | C | C | C | C | C | C | C | C | U160R | | | | | | |
| 8 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 9 | | | | | | | | E | 220 | I275C | 300 | 320 | 320 | 310H | 310H | I290C | 250 | 160 | | | | | | |
| 10 | | | | | | | | 180 | 230 | C | C | C | C | C | C | C | C | A | | | | | | |
| 11 | | | | | | | | B | U190R | I255A | 305 | 310 | 310 | I305C | 300 | 285 | 230 | B | | | | | | |
| 12 | | | | | | | | E | A | I275R | I320A | I320R | C | C | C | C | C | E | | | | | | |
| 13 | | | | | | | | E | 210 | 250 | 310 | I320C | 325 | C | C | C | C | C | | | | | | |
| 14 | | | | | | | | C | C | C | 320 | U340A | 335 | I335A | 300 | 280 | 230H | 150 | | | | | | |
| 15 | | | | | | | | 125 | 240 | 265H | I300C | I315C | I320C | I320C | 305 | 290 | 235 | 160 | | | | | | |
| 16 | | | | | | | | | 230H | 290 | 315 | I335C | I340C | 340H | 320 | 290 | 240 | 170 | | | | | | |
| 17 | | | | | | | | A | I195A | 270H | 310 | 320 | 330 | I330A | I330C | C | C | C | | | | | | |
| 18 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 19 | | | | | | | | | 220 | I270C | I305C | 320 | I330C | U330C | 320 | U300C | C | B | | | | | | |
| 20 | | | | | | | | A | A | I285C | 305 | I310C | A | C | C | C | C | C | | | | | | |
| 21 | | | | | | | | | I240A | 285H | 320H | U320R | U330R | U320R | 305 | 270H | 225H | 170 | | | | | | |
| 22 | | | | | | | | A | I200C | 280 | I320C | 340H | 340H | 330 | I300C | I280C | 230H | C | | | | | | |
| 23 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 24 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 25 | | | | | | | | A | A | I270A | I290A | 310H | I305C | I300C | 300 | 290 | C | A | | | | | | |
| 26 | | | | | | | | | C | C | C | C | C | C | C | C | 235 | E | | | | | | |
| 27 | | | | | | | | | 230 | A | A | I325A | 330 | I330C | 320 | C | C | C | | | | | | |
| 28 | | | | | | | | E | 300 | C | C | I320C | I320A | 320H | 290 | A | A | A | | | | | | |
| 29 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 30 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 31 | | | | | | | | E | 240H | I280C | I305C | 330 | 330 | 330 | 310 | 290H | 250 | 180 | | | | | | |
| Медiana | | | | | | | | E | 40 | 15 | 15 | 10 | 10 | 15 | 20 | 10 | 10 | | | | | | | |
| Учено | | | | | | | | 8 | 17 | 15 | 15 | 17 | 16 | 15 | 15 | 13 | 12 | 11 | | | | | | |
| | | | | | | | | 165 | 200 | 265 | 305 | 320 | 320 | 315 | 300 | 280 | 230 | E | | | | | | |
| | | | | | | | | E | 240 | 280 | 320 | 330 | 330 | 330 | 320 | 290 | 240 | 170 | | | | | | |

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

SoEs 0.1 МГц ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° E

Кем подсчитана ЛОМАШВИЛИ Л.Г.

| 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 | E13B | E13B | E11B | E14B | 18 | 35 | 35 | 25 | J50X | 32 | C | C | G | C | C | C | G | G | E15B | 25 | 20 | 35 | J22X | 27 |
| 2 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 3 | C | 30 | 20 | E12B | E12B | E12B | E14B | E15B | G | C | C | C | C | C | C | 30 | 23 | 24 | 30 | J20X | C | C | C | C |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | G | G | 21 | E | 20 | E | E15B | E12B |
| 5 | E15B | E15B | E15B | E13B | E | E13B | E14B | E13B | G | G | G | G | G | G | G | 32 | G | 17 | E14B | E13B | E | E14B | E14B | E13B |
| 6 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 7 | C | E14B | E11B | E12B | E | E14B | E | E12B | G | C | C | C | C | C | C | C | C | G | 20 | E12B | E13B | E17B | E14B | C |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 9 | C | C | E15B | E13B | E12B | E14B | E15B | G | G | C | G | G | G | G | G | C | G | G | E13B | E13B | E14B | E14B | E15B | E13B |
| 10 | E | 20 | 16 | E | E12B | E11B | E12B | G | G | C | C | C | 39 | C | C | C | C | 26 | 30 | 20 | E | 20 | E11B | 34 |
| 11 | 23 | 20 | 20 | 20 | 21 | E13B | E14B | G | G | 28 | G | G | G | C | G | G | G | G | E12B | 20 | C | C | C | C |
| 12 | C | E18B | E17B | C | E14B | E12B | E13B | G | 21 | G | 33 | G | C | C | C | C | C | G | 20 | 20 | 30 | J42X | 23 | 27 |
| 13 | 22 | E15B | E13B | E14B | E16B | E11B | E11B | G | 25 | 27 | G | C | G | C | C | C | C | C | C | C | C | C | B | C |
| 14 | C | C | C | C | C | C | C | C | C | C | 38 | 44 | J30X | J37X | G | G | 20 | 18 | 16 | 19 | 32 | 40 | Y | E15B |
| 15 | C | E15B | E13B | E11B | 16 | E11B | E11B | 17 | 24 | G | C | C | C | C | G | G | 22 | G | C | C | C | C | C | C |
| 16 | B | 25 | E12B | E11B | E11B | E12B | E12B | E13B | G | G | G | C | C | G | G | G | G | 18 | E13B | E14B | E14B | E14B | 25 | E17B |
| 17 | C | C | C | C | C | C | C | 27 | 25 | G | G | G | G | 50 | C | C | C | C | C | C | C | C | C | C |
| 18 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 19 | 18 | 25 | 15 | E12B | E13B | E12B | E15B | E13B | G | C | C | G | C | C | G | G | C | G | E15B | E15B | 27 | E16B | E15B | 28 |
| 20 | C | E17B | E17B | E12B | E11B | E15B | E12B | 23 | 33 | C | G | C | 36 | C | C | C | C | C | C | C | C | C | C | C |
| 21 | E14B | 26 | 23 | E12B | E | E11B | E11B | E11B | 30 | 24 | G | G | G | G | G | G | G | G | E13B | E13B | J50X | E12B | E15B | E15B |
| 22 | E15B | E17B | E13B | E15B | E13B | 15 | E14B | 27 | C | G | C | G | G | G | C | C | G | C | E13B | C | C | C | C | C |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 24 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | E | E12B | Y | E16B | E14B | C |
| 25 | C | E14B | E18B | E11B | E | 14 | E12B | 17 | J39X | 30 | 31 | G | C | C | G | 26 | C | J39X | C | J20X | E16B | C | C | C |
| 25 | C | E16B | E15B | E11B | E11B | E12B | E17B | E15B | C | C | C | C | C | C | C | C | 25 | C | E13B | E16B | E15B | E16B | E11B | J50X |
| 27 | E15B | E11B | E15B | E13B | E | E11B | 22 | E14B | 23 | J34X | 37 | 37 | 39 | C | G | C | C | C | C | 20 | E15B | E15B | E15B | E15B |
| 28 | C | C | C | C | C | C | C | G | 23 | C | C | C | 48 | G | 31 | 31 | 36 | 31 | 70 | Y | E16B | E11B | E17B | 23 |
| 29 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 30 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 31 | C | E14B | E16B | E16B | E15B | E14B | E14B | G | G | C | C | 39 | 40 | 40 | 37 | G | G | G | C | E14B | 20 | E16B | E16B | E15B |
| Медiana | D6 | D6 | E15B | E12B | E12B | E12B | E14B | V13 | 21 | G | G | G | G | G | G | G | G | G | D7 | D7 | D9 | D4 | D12 | |
| Учено | 9 | 18 | 19 | 18 | 19 | 19 | 19 | 21 | 19 | 12 | 12 | 12 | 14 | 9 | 12 | 11 | 14 | 17 | 17 | 18 | 16 | 16 | 15 | 14 |
| | E14/20 | E14/20 | E13/17 | E11/14 | E/15 | E11/14 | E12/15 | G/17 | G/25 | G/29 | G/32 | G/37 | G/39 | G/38 | G/G | G/30 | G/20 | G/21 | E13/20 | E13/20 | E14/23 | E14/18 | E14/17 | E15/27 |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая

(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

$f_0 E_s$ 0.1 МГц. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ ЛГ.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° E

Кем подсчитана ЛОМАШВИЛИ ЛГ.

| 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 | E13B | E13B | E11B | E14B | 15 | 30 | A | G | 20 | 32 | C | C | G | C | C | C | G | G | E15B | E11B | 19 | A | 18 | 23 | |
| 2 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 3 | C | 22 | 18 | E12B | E12B | E12B | E14B | E15B | G | C | C | C | C | C | C | 30 | 23 | 14 | 18 | 17 | C | C | C | C | |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | G | G | 15 | E | 15 | E | E15B | E12B | |
| 5 | E15B | E15B | E15B | E13B | E | E13B | E14B | E13B | G | G | G | G | G | G | G | 32 | G | 16 | E14B | E13B | E | E14B | E14B | E13B | |
| 6 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 7 | C | E14B | E11B | E12B | E | E14B | E | E12B | G | C | C | C | C | C | C | C | C | G | 19 | E12B | E13B | E17B | E14B | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | E15B | E13B | E12B | E14B | E15B | G | G | C | G | G | G | G | G | C | G | G | E13B | E13B | E14B | E14B | E15B | E13B | |
| 10 | E | 12 | 14 | E | E12B | E11B | E12B | G | G | C | C | C | 33 | C | C | C | C | 25 | 20 | 12 | E | 16 | E11B | 20 | |
| 11 | 17 | 15 | 14 | 12 | 17 | E13B | E14B | G | G | 28 | G | G | G | C | G | G | G | G | E12B | 19 | C | C | C | C | |
| 12 | C | E18B | E17B | C | E14B | E12B | E13B | G | 21 | G | 32 | G | C | C | C | C | C | G | 18 | 18 | 19 | A | 19 | 20 | |
| 13 | 15 | E15B | E13B | E14B | E16B | E11B | E11B | G | G | G | G | C | G | C | C | C | C | C | C | C | C | C | E15B | C | |
| 14 | C | C | C | C | C | C | C | C | C | C | 24 | 25 | 28 | 34 | G | G | 20 | 13 | 14 | 17 | 24 | 27 | 16 | E15B | |
| 15 | C | E15B | E13B | E11B | 13 | E11B | E11B | G | 21 | G | C | C | C | C | G | G | 21 | G | C | C | C | C | C | C | |
| 16 | E15B | 17 | E12B | E11B | E11B | E12B | E12B | E13B | G | G | G | C | C | G | G | G | G | 18 | E13B | E14B | E14B | E14B | 17 | E17B | |
| 17 | C | C | C | C | C | C | C | 18 | 19 | G | G | G | G | 39 | C | C | C | C | C | C | C | C | C | C | |
| 18 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 19 | 16 | 16 | 12 | E12B | E13B | E12B | E15B | E13B | G | C | C | G | C | C | G | G | C | G | E15B | E15B | 16 | E16B | E15B | 23 | |
| 20 | C | E17B | E17B | E12B | E11B | E15B | E12B | 17 | 30 | C | G | C | 31 | C | C | C | C | C | C | C | C | C | C | C | |
| 21 | E14B | 18 | 16 | E12B | E | E11B | E11B | E11B | 24 | 23 | G | G | G | G | G | G | G | G | E13B | E13B | 16 | E12B | E15B | E15B | |
| 22 | E15B | E17B | E13B | E15B | E13B | 15 | E14B | 23 | C | G | C | G | G | G | C | C | G | C | E13B | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 24 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | E | E12B | 15 | E16B | E14B | C | |
| 25 | C | E14B | E18B | E11B | E | 13 | E12B | 15 | 24 | 28 | 30 | G | C | C | G | 26 | C | 20 | C | E14B | E16B | C | C | C | |
| 26 | C | E16B | E15B | E11B | E11B | E12B | E12B | E15B | C | C | C | C | C | C | C | C | 25 | G | E13B | E16B | E15B | E16B | E11B | 23 | |
| 27 | E15B | E11B | E15B | E13B | E | E11B | 20 | E14B | 22 | 30 | 36 | 33 | G | C | G | C | C | C | C | 20 | E15B | E15B | E15B | E15B | |
| 28 | C | C | C | C | C | C | C | C | G | 23 | C | C | C | 40 | G | 30 | 30 | 29 | 21 | 28 | 13 | E16B | E11B | E17B | 16 |
| 29 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 30 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 31 | C | E14B | E16B | E16B | E15B | E14B | E14B | G | G | C | C | G | G | G | G | G | G | G | C | E14B | 20 | E16B | E16B | E15B | |
| Медiana | E15B | E15B | E15B | E12B | E12B | E12B | E13B | 12 | G | G | G | G | G | G | G | G | G | G | E14B | E14B | E15B | E16B | E15B | E15B | |
| Учтено | 10 | 18 | 19 | 18 | 19 | 19 | 19 | 21 | 19 | 12 | 12 | 12 | 14 | 9 | 12 | 11 | 14 | 18 | 17 | 19 | 17 | 16 | 17 | 14 | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая

(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

f min 0,1 МГц. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° E

Кем подсчитана ЛОМАШВИЛИ Л.Г.

| 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 | 13 | 13 | 11 | 14 | 10 | 12 | 12 | 12 | 15 | 18 | E30 c | E30 c | 20 | E40 c | E32 c | E30 c | 13 | 15 | 15 | 11 | 12 | 13 | 13 | 15 |
| 2 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 3 | c | 12 | 12 | 12 | 12 | 12 | 14 | 15 | 14 | c | c | c | c | c | c | 20 | 17 | 12 | 16 | 15 | c | c | c | c |
| 4 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 18 | 12 | 10 | 10 | 10 | 10 | 15 | 12 |
| 5 | 15 | 15 | 15 | 13 | 10 | 13 | 14 | 13 | 14 | 15 | 18 | 20 | 18 | 17 | 18 | 16 | 10 | 13 | 14 | 13 | 10 | 14 | 14 | 13 |
| 6 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 7 | c | 14 | 11 | 12 | 10 | 14 | 10 | 12 | 18 | c | c | c | c | c | c | c | c | 12 | 10 | 12 | 13 | 17 | 14 | c |
| 8 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 9 | c | c | 15 | 13 | 12 | 14 | 15 | 15 | 17 | E33 c | 20 | 20 | 20 | 20 | 20 | E30 c | 20 | 14 | 13 | 13 | 14 | 14 | 15 | 13 |
| 10 | 10 | 10 | 10 | 10 | 12 | 11 | 12 | 10 | 15 | E30 c | E32 c | E34 c | E30 c | E47 c | E32 c | E34 c | E30 c | 14 | 15 | 10 | 10 | 14 | 11 | 14 |
| 11 | 10 | 10 | 10 | 10 | 10 | 13 | 14 | 14 | 17 | 13 | 18 | 18 | 19 | c | 20 | 18 | 17 | 16 | 12 | 13 | c | c | c | c |
| 12 | c | 18 | 17 | c | 14 | 12 | 13 | 11 | 13 | 16 | 19 | 18 | c | c | c | c | c | 16 | 13 | 11 | 14 | 13 | 13 | 14 |
| 13 | 13 | 15 | 13 | 14 | 16 | 11 | 11 | 12 | 14 | 15 | 18 | c | 20 | c | c | c | c | c | c | c | c | c | 15 | c |
| 14 | c | c | c | c | c | c | c | c | c | c | 13 | 15 | 17 | 16 | 16 | 16 | 16 | 11 | 11 | 12 | 12 | 10 | 11 | 15 |
| 15 | c | 15 | 13 | 11 | 10 | 11 | 11 | 11 | 14 | 16 | c | c | c | c | 17 | 19 | 15 | 13 | c | c | c | c | c | c |
| 16 | 15 | 16 | 12 | 11 | 11 | 12 | 12 | 13 | 16 | 19 | 18 | c | c | 22 | 20 | 17 | 16 | 12 | 13 | 14 | 14 | 14 | 14 | 17 |
| 17 | c | c | c | c | c | c | c | 13 | 15 | 16 | 19 | 20 | 20 | 18 | c | c | c | c | c | c | c | c | c | c |
| 18 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 19 | 13 | 10 | 10 | 12 | 13 | 12 | 15 | 13 | 15 | 18 | E32 c | 20 | 21 | 19 | 20 | 19 | E30 c | 16 | 15 | 15 | 15 | 16 | 15 | 12 |
| 20 | c | 17 | 17 | 12 | 11 | 15 | 12 | 11 | 15 | c | 19 | c | 16 | c | c | c | c | c | c | c | c | c | c | c |
| 21 | 14 | 15 | 12 | 12 | 10 | 11 | 11 | 11 | 13 | 16 | 16 | 19 | 19 | 20 | 21 | 18 | 16 | 14 | 13 | 13 | 13 | 12 | 15 | 15 |
| 22 | 15 | 17 | 13 | 15 | 13 | 12 | 14 | 12 | c | 10 | c | 17 | 19 | 20 | c | c | 16 | c | 13 | c | c | c | c | c |
| 23 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 24 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 10 | 12 | 10 | 16 | 14 | c |
| 25 | c | 14 | 18 | 11 | 10 | 11 | 12 | 13 | 10 | 17 | 16 | 17 | c | c | 14 | 11 | c | 11 | c | 14 | 16 | c | c | c |
| 26 | c | 16 | 15 | 11 | 11 | 12 | 12 | 15 | c | c | c | c | c | c | c | c | 15 | 17 | 13 | 16 | 15 | 16 | 11 | 14 |
| 27 | 15 | 11 | 15 | 13 | 10 | 11 | 15 | 14 | 15 | 15 | 18 | 23 | 17 | c | 18 | c | c | c | c | 15 | 15 | 15 | 15 | 15 |
| 28 | c | c | c | c | c | c | c | 13 | 18 | c | c | c | 14 | 13 | 17 | 20 | 18 | 14 | 11 | 10 | 16 | 11 | 17 | 12 |
| 29 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 30 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 31 | c | 14 | 16 | 16 | 15 | 14 | 14 | 15 | 15 | c | c | 18 | 16 | 17 | 17 | 17 | 18 | 16 | c | 14 | 17 | 16 | 16 | 15 |
| Медiana | 13 | 15 | 13 | 12 | 11 | 12 | 12 | 13 | 15 | 16 | 18 | U19 | 19 | U18 | U18 | U18 | 16 | 14 | 13 | 13 | 13 | 14 | 14 | 14 |
| Учено | 10 | 18 | 19 | 18 | 19 | 19 | 19 | 21 | 19 | 15 | 15 | 14 | 15 | 12 | 14 | 14 | 16 | 18 | 17 | 17 | 17 | 16 | 17 | 14 |

Пробег частоты от 1.0 МГц до 10.0 МГц 0.5 мин.

Станция автоматическая.
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

(M-3000)F2 0,01 ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Госуниверситет
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломатвили Л.Т.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° E

Кем подсчитана Ломатвили Л.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 | 270 | 275 | 275 | 300 | 300 | 300 | A | 290 | 325 | c | c | 340 | 330H | 320 | 330 | 325 | 330H | 330 | 350 | 330 | 290 | A | 290 | 270 | |
| 2 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 3 | c | 300 | 310 | 310 | 300 | 330 | 350 | 350 | 330 | c | c | c | c | c | c | 340 | R | 340 | 370 | 380 | c | c | c | c | |
| 4 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 315 | R | 320 | 345 | 335 | 300 | 270 | 280 | |
| 5 | 290 | 305 | 290 | 300N | 320N | 310 | 320N | N | c | c | 330H | 320 | 325 | 320 | 330 | 340 | 300 | 310 | 300H | 300H | 300 | 290 | 290 | 300 | |
| 6 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 7 | c | 320 | 330 | 290 | 280 | 290 | 320 | 340 | R | c | c | c | c | c | c | c | c | R | R | 330 | 330 | R | 270 | c | |
| 8 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 9 | c | c | 275 | 295 | 290 | 315 | 320 | 315 | 325 | c | 320 | 335 | 300 | 300 | 310 | 320 | 330 | 285H | 290H | 280H | 320 | 310H | 280 | 290 | |
| 10 | 290 | 275 | 285 | 270 | 275 | 270 | 350 | R | 355 | 355 | u315c | u345c | 330 | 310 | 335 | R | 325 | 315 | 340 | 345 | 310 | 260 | 285 | 300 | |
| 11 | 300 | 290 | 300 | 290 | 290 | 350 | 370 | 350 | u340R | 320 | 330 | 340 | 340 | c | 310 | 300 | 340 | R | c | 360 | c | c | c | c | |
| 12 | c | 275 | 300 | c | R | 310 | 320 | 350 | c | c | c | c | c | c | c | c | c | c | 340 | 355 | 265 | A | F | 270 | |
| 13 | 305 | 300 | 300N | M | 320N | 320 | 320 | 320 | 315H | 320 | 325 | c | 335H | c | c | c | c | c | c | c | c | c | 290 | c | |
| 14 | c | c | c | c | c | c | c | c | c | c | 350 | 375 | 315 | 315 | 305 | 315 | 340 | 330 | 330 | 350 | 305 | 290 | 285F | 280 | |
| 15 | c | R | F | 270 | F | 285 | F | 300 | 340 | 320 | c | c | c | c | 300 | 320 | 315 | 285 | c | c | c | c | c | c | |
| 16 | 250 | R | R | 310 | 305 | 290 | 300 | 300 | R | c | R | c | c | 295 | 300 | 300 | 290 | 300 | R | 300 | 295 | 290 | 285 | 285 | |
| 17 | c | c | c | c | c | c | c | N | 300 | 350 | 315 | 315 | 310 | 310 | c | c | c | c | c | c | c | c | c | c | |
| 18 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 19 | 280 | 290 | 280 | 300 | 295 | 320 | 290 | R | S | c | c | c | c | 310 | R | R | c | c | c | c | R | R | R | R | |
| 20 | c | 285 | 300 | 300 | 325 | 335 | c | c | c | c | c | c | 320 | c | c | c | c | c | c | c | c | c | c | c | |
| 21 | 290V | 280V | F | F | F | F | F | 320 | 350 | 330 | 340 | 330 | 350 | 330 | 290 | 330 | 335 | 330 | 320 | 310 | 350 | 310 | R | 270 | |
| 22 | 295 | 290 | 290 | 295V | 285 | 290V | 300 | 295 | c | 330 | c | 350 | 320 | 310 | c | c | 350 | c | 330 | c | c | c | c | c | |
| 23 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 24 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 290 | 315 | 290 | 270 | 260 | c |
| 25 | c | 265 | 270 | 325 | 290 | F | F | F | R | R | 300 | 310 | c | c | 315 | 315 | c | 315 | c | 305 | 260 | c | c | c | |
| 26 | c | 280 | 300 | 300 | 340 | 285 | 280 | 280 | c | c | c | c | c | c | c | c | 310 | 300 | 305 | 330 | 315 | 325 | 320 | 290 | |
| 27 | 285 | 290 | 285 | 280 | 290 | 300 | 300V | 320 | c | 330 | c | 355 | 330H | c | 320 | c | c | c | c | 340 | 310 | 280 | 270 | 255 | |
| 28 | c | c | c | c | c | c | c | 280 | 350 | c | c | c | 300 | 315 | 305 | 330 | 335 | 350 | A | 305 | 330 | 295 | 265 | 275 | |
| 29 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 30 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | |
| 31 | c | 280N | 285N | 285 | 275 | 300 | 325 | 325 | 335 | c | c | 330 | 350 | 325 | 315 | 330 | 325 | 325 | c | 350 | 285 | 270 | 270 | 285 | |
| Медiana | 15 | 15 | 20 | 10 | 20 | 30 | 25 | 45 | 25 | 20 | 20 | 25 | 20 | 10 | 25 | 15 | 20 | 30 | 35 | 45 | 35 | 30 | 20 | 20 | |
| Учено | 10 | 16 | 16 | 16 | 16 | 17 | 14 | 15 | 11 | 8 | 9 | 12 | 14 | 12 | 13 | 12 | 14 | 13 | 12 | 18 | 16 | 12 | 14 | 13 | |
| | 280/295 | 280/295 | 280/300 | 290/300 | 290/310 | 290/320 | 300/325 | 295/340 | 325/350 | 320/340 | 315/335 | 325/350 | 315/335 | 310/320 | 300/325 | 315/330 | 315/335 | 300/330 | 305/340 | 305/350 | 290/325 | 275/305 | 270/290 | 270/290 | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

(M-3000)F1 0,01 ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Госуниверситет
(институт)

Станция Тбилиси

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломашвили ЛТ.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° 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 | | | | | | | | | | с | с | | | | | | | | | | | | | |
| 2 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 3 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 4 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 5 | | | | | | | | | | | | л | л | | | | | | | | | | | |
| 6 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 7 | | | | | | | | | | с | с | с | с | с | с | с | с | | | | | | | |
| 8 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 9 | | | | | | | | | | | | л | л | | | | | | | | | | | |
| 10 | | | | | | | | | | | л | л | л | | | | | | | | | | | |
| 11 | | | | | | | | | | | | л | с | с | л | | | | | | | | | |
| 12 | | | | | | | | | | | л | л | с | с | с | с | с | | | | | | | |
| 13 | | | | | | | | | | | | с | л | с | с | с | с | | | | | | | |
| 14 | | | | | | | | с | с | с | с | л | л | с | с | с | | | | | | | | |
| 15 | | | | | | | | | | | с | с | с | с | л | | | | | | | | | |
| 16 | | | | | | | | | | | | с | с | | | | | | | | | | | |
| 17 | | | | | | | | | | | | л | л | | | | | | | | | | | |
| 18 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 19 | | | | | | | | | | с | л | л | с | л | с | с | с | | | | | | | |
| 20 | | | | | | | | | | с | л | с | л | с | с | с | с | | | | | | | |
| 21 | | | | | | | | | | | л | л | | л | | | | | | | | | | |
| 22 | | | | | | | | | с | с | с | с | | | с | с | | | | | | | | |
| 23 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 24 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 25 | | | | | | | | | | л | л | л | с | с | | л | с | | | | | | | |
| 26 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 27 | | | | | | | | | | | | | | с | | | | | | | | | | |
| 28 | | | | | | | | | | с | с | с | с | | | | | | | | | | | |
| 29 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 30 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 31 | | | | | | | | | | с | с | л | л | л | л | | | | | | | | | |
| Мед. ана | | | | | | | | | | | | | | | | | | | | | | | | |
| Учтено | | | | | | | | | | | | | | | | | | | | | | | | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

ИФ км. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Госуниверситет
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломатвили Л.Т.

Долгота 44°48' E широта 41°43' N

поясное время 45° E

Кем подсчитана Ломатвили Л.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 | 310 | 290 | 270 | 270 | 260 | E300A | A | 270 | 230 | 230 | 230 | 220 | 230H | 230 | 240 | 230 | 230H | 220 | 200 | 220 | E260A | A | 300 | 340 |
| 2 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 3 | c | 300 | 270 | 250 | 260 | 240 | 230 | 220 | 220 | c | c | c | c | c | c | 230 | 225 | 230 | 210 | 210 | c | c | c | c |
| 4 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 230 | 215 | 220 | 210 | 225 | 250 | 300 | 260 |
| 5 | 250 | 250 | 250 | 260 | 260 | 250 | 250 | 210 | 220 | 240 | 230 | 230 | 240 | 240 | 250 | 220 | 220 | 230 | 210 | 210 | 200 | 270 | 280 | 260 |
| 6 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 7 | c | 250 | 230 | 260 | 290 | 270 | 240 | 225 | 210 | c | c | c | c | c | c | c | c | 240 | 215 | 230 | 230 | 290 | 310 | c |
| 8 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 9 | c | c | 270 | 250 | 280 | 240 | 230 | 270 | 240 | 240 | 220 | 200 | 200 | 240 | 250 | 240 | 220 | 230H | 220H | 230H | 230 | 230H | 260 | 260 |
| 10 | 260 | 250 | 265 | 250 | 275 | 250 | 230 | 250 | 210 | 230 | 220 | 225 | 200 | 260 | 240 | 230 | 230 | 230 | 230 | 215 | 215 | 310 | 280 | 260 |
| 11 | 260 | 270 | 250 | 250 | 260 | 210 | 210 | 220 | 220 | 240 | 240 | 230 | 230 | I215c | 200 | 230 | 230 | 230 | 220 | 220 | c | c | c | c |
| 12 | c | 275 | 260 | I270c | 275 | 250 | 230 | 215 | 205 | 220 | 230 | 220 | c | c | c | c | c | 225 | 210 | 210 | E275A | A | 305 | 310 |
| 13 | 260 | 250 | 260 | 270 | 270 | 240 | 220 | 200 | 200H | 220 | 230 | I235c | 240H | c | c | c | c | c | c | c | c | c | 270 | c |
| 14 | c | c | c | c | c | c | c | c | c | c | 215 | 210 | 200 | 220 | 215 | 230 | 215 | 210 | 210 | 200 | 280 | 300 | 280 | 290 |
| 15 | c | 275 | 300 | 300 | 280 | 270 | 230 | 205 | 220 | 220 | c | c | c | c | 225 | 230 | 220 | 210 | c | c | c | c | c | c |
| 16 | 300 | 300 | 270 | 220 | 200 | 260 | 260 | 220 | 210 | 230 | 220 | c | c | 220 | 230 | 230 | 220 | 250 | 210 | 210 | 220 | 230 | 290 | 300 |
| 17 | c | c | c | c | c | c | c | 230 | 210 | 230 | 220 | 210 | 220 | 230 | c | c | c | c | c | c | c | c | c | c |
| 18 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 19 | 310 | 300 | 300 | 260 | 240 | 220 | 280 | 250 | 210 | 230 | 230 | 230 | 240 | 220 | 220 | 230 | 230 | 220 | 210 | I225R | 240 | 300 | 270 | 350 |
| 20 | c | 280 | 285 | 245 | 245 | 230 | 240 | 270 | 235 | I230c | 230 | I215c | 200 | c | c | c | c | c | c | c | c | c | c | c |
| 21 | 275 | 290 | 280 | 270 | 280 | 240 | 230 | 220 | 230 | 215 | 240 | 220 | 210 | 200 | 215 | 240 | 220 | 210 | 225 | 220 | 215 | 220 | 310 | 305 |
| 22 | 280 | 280 | 260 | 270 | 270 | 280 | 250 | 250 | I225c | 200 | I220c | 240 | 210 | 210 | c | c | 230 | I215c | 200 | c | c | c | c | c |
| 23 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 24 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | 250 | 250 | 230 | 280 | 310 | c |
| 25 | c | 300 | 310 | 260 | 270 | 210 | 235 | 210 | 260 | 225 | 210 | 225 | c | c | 220 | 205 | I210c | 210 | I230c | 250 | 280 | c | c | c |
| 26 | c | 300 | 280 | 240 | 200 | 290 | 270 | 290 | c | c | c | c | c | c | c | c | 225 | 230 | 230 | 215 | 225 | 220 | 230 | 320 |
| 27 | 290 | 260 | 300 | 290 | 260 | 230 | 250 | 210 | 210 | 220 | 230 | 240 | 230 | I220c | 210 | c | c | c | c | 230 | 210 | 300 | 300 | 300 |
| 28 | c | c | c | c | c | c | c | 215 | 220 | c | c | c | 240 | 220 | 230 | 215 | 215 | 210 | u240A | 240 | 230 | 230 | 270 | 300 |
| 29 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 30 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 31 | c | 270 | 290 | 280 | 300 | 270 | 230 | 220 | 210 | c | c | 220 | 210 | 200 | 200 | 230 | 220 | 210 | I205c | 200 | 300 | 290 | 300 | 300 |
| Медiana | 40 | 40 | 30 | 20 | 20 | 40 | 20 | 40 | 20 | 10 | 10 | 10 | 40 | 15 | 25 | | 10 | 20 | 20 | 20 | 50 | 70 | 30 | 50 |
| Учено | 280 | 280 | 270 | 260 | 270 | u245 | 230 | 220 | 220 | 230 | 230 | 220 | 220 | 220 | 220 | 240 | 220 | 220 | 215 | 220 | 230 | 275 | 290 | 300 |
| | 10 | 18 | 19 | 19 | 19 | 19 | 18 | 21 | 20 | 16 | 16 | 16 | 15 | 14 | 14 | 14 | 17 | 19 | 19 | 19 | 17 | 14 | 17 | 14 |
| | 260/300 | 260/300 | 260/290 | 250/270 | 260/280 | 230/270 | 230/250 | 210/250 | 210/230 | 220/230 | 220/230 | 220/230 | 200/240 | 215/230 | 215/240 | 240/240 | 220/230 | 210/230 | 210/230 | 210/230 | 220/270 | 230/300 | 270/300 | 260/310 |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

h'F2 км. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Государственный университет
(институт)

Станция Тбилиси

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломтавили Л.Т.

Долгота 44°48'E широта 41°43'N

поясное время 45°E

Кем подсчитана Ломтавили Л.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 | | | | | | | | | | с | с | | | | | | | | | | | | | |
| 2 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 3 | | | | | | | | | | с | с | с | с | с | с | с | | | | | | | | |
| 4 | | | | | | | | с | с | с | с | с | с | с | с | с | | | | | | | | |
| 5 | | | | | | | | | | | | 220 | 210 | | | | | | | | | | | |
| 6 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 7 | | | | | | | | | | с | с | с | с | с | с | с | с | | | | | | | |
| 8 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 9 | | | | | | | | | | | | 230 | 230 | | | | | | | | | | | |
| 10 | | | | | | | | | | | 250 | 240 | 220 | | | | | | | | | | | |
| 11 | | | | | | | | | | | | 250 | | с | 260 | | | | | | | | | |
| 12 | | | | | | | | | | | 245 | 235 | с | с | с | с | с | | | | | | | |
| 13 | | | | | | | | | | | | с | 200 | с | с | с | с | | | | | | | |
| 14 | | | | | | | | с | с | с | | 220 | 240 | | | | | | | | | | | |
| 15 | | | | | | | | | | | с | с | с | с | 250 | | | | | | | | | |
| 16 | | | | | | | | | | | | с | с | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 240 | 240 | | с | с | с | | | | | | | |
| 18 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 19 | | | | | | | | | | | 240 | 250 | | 240 | 240 | | | | | | | | | |
| 20 | | | | | | | | | | с | 230 | 230 | с | 230 | с | с | с | с | | | | | | |
| 21 | | | | | | | | | | | 260 | 250 | | 250 | | | | | | | | | | |
| 22 | | | | | | | | | с | | с | | | | с | с | | | | | | | | |
| 23 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 24 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 25 | | | | | | | | | | 230 | 250 | 260 | с | с | | 240 | с | | | | | | | |
| 26 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 27 | | | | | | | | | | | | | | с | | с | с | | | | | | | |
| 28 | | | | | | | | | | с | с | с | | | | | | | | | | | | |
| 29 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 30 | | | | | | | | с | с | с | с | с | с | с | с | с | с | | | | | | | |
| 31 | | | | | | | | | | с | с | 240 | 230 | 230 | 240 | | | | | | | | | |
| Медiana | | | | | | | | | | 230 | 250 | 240 | 230 | 240 | 250 | 240 | | | | | | | | |
| Учено | | | | | | | | | | 1 | 6 | 12 | 8 | 3 | 4 | 1 | | | | | | | | |
| | | | | | | | | | | | 240/250 | 230/250 | 215/235 | | | | | | | | | | | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая.
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

h'E км. ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Станция ТБИЛИСИ

Долгота 44°48'E широта 41°43'N

поясное время 45°E

Кем подсчитана ЛОМАШВИЛИ Л.Г.

| 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 | | | | | | | | 110 | E200A | 120 | C | C | C | C | C | C | 110H | E | | | | | | |
| 2 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 3 | | | | | | | | C | 110H | C | C | C | C | C | C | 110 | A | A | | | | | | |
| 4 | | | | | | | | C | C | C | C | C | C | C | C | C | 115 | E | | | | | | |
| 5 | | | | | | | | | 130 | 115 | 125 | 125 | 120 | 120 | 115 | 125 | 115 | 110 | | | | | | |
| 6 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 7 | | | | | | | | | 130 | C | C | C | C | C | C | C | C | 140 | | | | | | |
| 8 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 9 | | | | | | | | E | 110 | I 110C | 110 | 100 | 100 | 120H | 120H | I 135C | 150 | 100 | | | | | | |
| 10 | | | | | | | | 150 | 140 | C | C | C | C | C | C | C | C | A | | | | | | |
| 11 | | | | | | | | B | 140H | I 125A | 110 | 100 | 100 | I 110C | 120 | 120 | 120 | B | | | | | | |
| 12 | | | | | | | | E | A | 105 | I 110A | 110 | C | C | C | C | C | E | | | | | | |
| 13 | | | | | | | | E | 140 | 125 | 120 | I 115C | 110 | C | C | C | C | C | | | | | | |
| 14 | | | | | | | | C | C | C | 120 | U 120A | 125 | I 120A | 110 | 110 | 130H | 170 | | | | | | |
| 15 | | | | | | | | 110 | E 180A | 115 | C | C | C | C | 100 | 100 | E 185A | E 175A | | | | | | |
| 16 | | | | | | | | | 120H | 120 | 110 | C | C | 120H | 110 | 110 | 120 | 200 | | | | | | |
| 17 | | | | | | | | A | A | 120H | 110 | 120 | 105 | A | C | C | C | C | | | | | | |
| 18 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 19 | | | | | | | | | 105 | C | C | 110 | I 110C | 110 | 110 | 110 | C | B | | | | | | |
| 20 | | | | | | | | 100 | A | C | 110 | C | A | C | C | C | C | C | | | | | | |
| 21 | | | | | | | | | A | 150H | 110H | 105 | 105 | 115 | 120 | 110H | 120H | 190 | | | | | | |
| 22 | | | | | | | | A | C | 100 | I 105C | 110H | 120H | 120 | C | C | 125H | C | | | | | | |
| 23 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 24 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 25 | | | | | | | | A | A | A | 110 | 105H | C | C | 100 | E 160A | C | A | | | | | | |
| 26 | | | | | | | | | C | C | C | C | C | C | C | C | 120 | E | | | | | | |
| 27 | | | | | | | | | E 210A | 110 | 110 | 105 | 100 | I 110C | 120 | C | C | C | | | | | | |
| 28 | | | | | | | | E | 120 | C | C | C | A | 105H | 100 | B | A | A | | | | | | |
| 29 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 30 | | | | | | | | C | C | C | C | C | C | C | C | C | C | C | | | | | | |
| 31 | | | | | | | | E | 120H | C | C | 110 | 110 | 110 | 110 | 110H | 120 | 150 | | | | | | |
| Медиана | | | | | | | | E | U 125 | 115 | 110 | 110 | 110 | 115 | 110 | 110 | 120 | U 190 | | | | | | |
| Учтено | | | | | | | | 9 | 14 | 12 | 13 | 13 | 11 | 11 | 12 | 11 | 12 | 12 | | | | | | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая.
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

h'E_s км. Январь 1969г.
(характеристика) (единицы) (месяц) (год)

Тбилисский Госуниверситет
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена Ломашвили Л.Г.

Долгота 44°48'E широта 41°43'N

поясное время 45°E

Кем подсчитана Ломашвили Л.Г.

| 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 | 110 | 105 | 105 | 110 | 105 | 120 | C | C | G | C | C | C | G | G | B | 100 | 100 | 100 | 100 | 100 |
| 2 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 3 | C | 100 | 100 | B | B | B | B | B | G | C | C | C | C | C | C | 120 | 120 | 115 | 110 | 110 | C | C | C | C |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | G | G | 100 | E | 100 | E | B | B |
| 5 | B | B | B | B | E | B | B | B | G | G | G | G | G | G | G | 130 | G | 120 | B | B | E | B | B | B |
| 6 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 7 | C | B | B | B | E | B | E | B | G | C | C | C | C | C | C | C | C | G | 110 | B | B | B | B | C |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 9 | C | C | B | B | B | B | B | G | G | C | G | G | G | G | G | C | G | G | B | B | B | B | B | B |
| 10 | E | 100 | 100 | E | B | B | B | G | G | C | C | C | 100 | C | C | C | C | 110 | 105 | 105 | E | 100 | B | 100 |
| 11 | 100 | 100 | 100 | 100 | 100 | B | B | G | G | 105 | G | G | G | C | G | G | G | G | B | 110 | C | C | C | C |
| 12 | C | B | B | C | B | B | B | G | 110 | G | 100 | G | C | C | C | C | C | G | 110 | 105 | 100 | 100 | 100 | 100 |
| 13 | 100 | B | B | B | B | B | B | G | 140 | 125 | G | C | G | C | C | C | C | C | C | C | C | C | B | C |
| 14 | C | C | C | C | C | C | C | C | C | C | 100 | 100 | 100 | 105 | G | G | 105 | 110 | 110 | 100 | 100 | 100 | 115 | B |
| 15 | C | B | B | B | 100 | B | B | 125 | 110 | G | G | C | C | C | G | G | 100 | G | C | C | C | C | C | C |
| 16 | B | 100 | B | B | B | B | B | B | G | G | G | C | C | G | G | G | G | 100 | B | B | B | B | 105 | B |
| 17 | C | C | C | C | C | C | C | 105 | 105 | G | G | G | G | 100 | C | C | C | C | C | C | C | C | C | C |
| 18 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 19 | 100 | 100 | 100 | B | B | B | B | B | G | G | G | G | C | G | G | G | C | G | B | B | 105 | B | B | 100 |
| 20 | C | B | B | B | B | B | B | 110 | 100 | C | G | C | 100 | C | C | C | C | C | C | C | C | C | C | C |
| 21 | B | 100 | 100 | B | E | B | B | B | 105 | 110 | G | G | G | G | G | G | G | G | B | B | 105 | B | B | B |
| 22 | B | B | B | B | B | 110 | B | 110 | C | G | C | G | G | G | C | C | G | C | B | C | C | C | C | C |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 24 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | E | B | 105 | B | B | C |
| 25 | C | B | B | B | E | 120 | B | 110 | 110 | 115 | 110 | G | C | C | G | 100 | C | 100 | C | 105 | B | C | C | C |
| 25 | C | B | B | B | B | B | B | B | C | C | C | C | C | C | C | C | 130 | G | B | B | B | B | B | 110 |
| 27 | B | B | B | B | E | B | 110 | B | 120 | 110 | 110 | 110 | 100 | C | G | C | C | C | 100 | B | B | B | B | B |
| 28 | C | C | C | C | C | C | C | G | 110 | C | C | C | 100 | G | 150 | 115 | 110 | 110 | 105 | 130 | B | B | B | 105 |
| 29 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 30 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 31 | C | B | B | B | B | B | B | G | G | C | C | 130 | 130 | 130 | 125 | G | G | G | C | B | 105 | B | B | B |
| Медиана | 100 | 100 | 100 | 100 | 100 | 110 | 110 | 110 | 110 | 110 | 105 | 110 | 100 | 110 | 140 | 110 | 110 | 110 | 110 | 105 | 100 | 100 | 100 | 100 |
| Учено | 3 | 6 | 5 | 1 | 3 | 3 | 2 | 6 | 10 | 6 | 4 | 3 | 6 | 3 | 2 | 4 | 5 | 7 | 7 | 9 | 8 | 4 | 4 | 6 |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая.

(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

Тбилисский Государственный Университет
(институт)

h_pF2 км ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

Станция Тбилиси

ИОНОСФЕРНЫЕ ДАННЫЕ
45°E

Кем составлена Ломашвили

Долгота 44°48' E широта 41°43' N

поясное время

Кем подсчитана Ломашвили

| 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 | 380 | 360 | 360 | 330 | 330 | A | A | 350 | 270 | A | C | 260 | 270H | 300 | 270 | 260 | 300H | 270 | 250 | 250 | 340 | A | 350 | 380 | |
| 2 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 3 | C | 330 | 310 | 290 | 330 | 280 | 250 | 270 | 270 | C | C | C | C | C | C | 260 | R | 250 | 240 | 230 | C | C | C | C | |
| 4 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 280 | U260R | 280 | 260 | 275 | 330 | 365 | 350 | |
| 5 | 340 | 320 | 320 | 350M | 350 | 320 | 330 | N | C | C | 250H | 280 | 300 | 300 | 280 | 240 | 330 | 270 | 300H | 300H | 280 | 320 | 360 | 340 | |
| 6 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | R | C | C | |
| 7 | C | 270 | 280 | 350 | 370 | 330 | 290 | 270 | R | C | C | C | C | C | C | C | C | R | R | 280 | 280 | R | 390 | C | |
| 8 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 9 | C | C | 370 | 340 | 350 | 300 | 300 | 300 | 260 | C | 270 | 260 | 300 | 300 | 290 | 280 | 260 | 350H | 370H | 350H | 280 | 400H | 350 | 350 | |
| 10 | 330 | 360 | 340 | 330 | 360 | 330 | 280 | U280R | 300 | 255 | U270C | U260C | 275 | 300 | 275 | R | 280 | 270 | 270 | 260 | 280 | 370 | 375 | 325 | |
| 11 | 310 | 340 | 330 | 330 | 330 | 260 | 250 | 260 | U250R | 270 | 280 | 270 | 270 | C | 290 | 280 | 260 | R | C | 260 | C | C | C | C | |
| 12 | C | 340 | 310 | C | R | 325 | 295 | 250 | C | C | C | C | C | C | C | C | C | C | 260 | 250 | 325 | A | F | 330 | |
| 13 | 380 | 330 | 350N | N | 330N | 300 | 270 | 270 | 270H | 280 | 270 | C | 270H | C | C | C | C | C | C | C | C | C | 400 | C | |
| 14 | C | C | C | C | C | C | C | C | C | C | 225 | 270 | 280 | 280 | 300 | 285 | 245 | 260 | 250 | 250 | 330 | 365 | 365 | 390 | |
| 15 | C | R | F | 395 | F | 360 | F | 325 | 270 | 275 | C | C | C | C | 300 | 285 | 290 | 260 | C | C | C | C | C | C | |
| 16 | 380 | U360R | 320 | 260 | 240 | 320 | 300 | 300 | U260R | C | U260R | C | C | 300 | 280 | 290 | 270 | 300 | R | 250 | 260 | 260 | 305 | 330 | |
| 17 | C | C | C | C | C | C | C | N | 250 | 260 | 260 | 270 | 290 | C | C | C | C | C | C | C | C | C | C | C | |
| 18 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 19 | 350 | 340 | 340 | 290 | 280 | 250 | 330 | U290R | S | C | C | U280C | C | 280 | 280 | 250 | C | C | C | C | R | 330 | R | U360R | |
| 20 | C | 345 | 345 | 310 | 290 | 275 | C | C | C | C | C | C | 275 | C | C | C | C | C | C | C | C | C | C | C | |
| 21 | 350V | 370V | U360F | U350F | F | F | U300F | 290 | 270 | 290 | 290 | 290 | 260 | 280 | 310 | 280 | 260 | 250 | 290 | 300 | 240 | 310 | U360R | 390 | |
| 22 | 350 | 340 | 320 | 330V | 320 | 340V | 280 | 280 | C | 280 | C | 250 | 280 | 270 | C | C | 250 | C | 260 | C | C | C | C | C | |
| 23 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 24 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | 305 | 320 | 320 | 380 | 410 | C |
| 25 | C | 400 | 400 | 330 | 345 | F | F | F | U300R | U260R | 300 | 295 | C | C | R | 290 | C | R | C | R | 360 | C | C | C | |
| 26 | C | 390 | 320 | 300 | 260 | 380 | 390 | 400 | C | C | C | C | C | C | C | C | 270 | 300 | 300 | 250 | 290 | 270 | 280 | 370 | |
| 27 | 350 | 360 | 350 | 340 | 340 | 300 | 280N | 250 | C | 270 | C | 260 | 260H | C | 290 | C | C | C | C | 270 | 300 | 360 | 400 | 400 | |
| 28 | C | C | C | C | C | C | C | 340 | 240 | C | C | C | 290 | 270 | 280 | 260 | 270 | 250 | U250A | 290 | 290 | 325 | 390 | 395 | |
| 29 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 30 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 31 | C | 350N | 370N | 320 | 380 | 300 | 270 | 250 | 240 | C | C | 270 | 240 | 300 | 300 | 280 | 280 | C | C | 230 | 330 | 350 | 390 | 350 | |
| Медиана | 350 | 345 | 340 | 330 | 330 | 310 | 290 | 280 | 270 | 270 | 270 | 270 | 275 | 300 | 290 | 280 | 270 | 265 | 270 | 260 | 290 | 330 | 365 | 355 | |
| Учтено | 10 | 17 | 18 | 17 | 16 | 16 | 15 | 17 | 13 | 9 | 10 | 13 | 14 | 11 | 13 | 13 | 14 | 12 | 13 | 17 | 16 | 13 | 15 | 14 | |

Пробег частоты от 1.0 Мгц до 10.0 Мгц 0.5 мин.

Станция автоматическая.
(ручная, автоматическая)

МЕЖДУНАРОДНЫЙ ГОД СПОКОЙНОГО СОЛНЦА

Типы Es ЯНВАРЬ 1969г.
(характеристика) (единицы) (месяц) (год)

ТБИЛИССКИЙ ГОСУНИВЕРСИТЕТ
(институт)

Станция ТБИЛИСИ

ИОНОСФЕРНЫЕ ДАННЫЕ

Кем составлена ЛОМАШВИЛИ Л.Г.

Долгота 44° 48' E широта 41° 43' N

поясное время 45° 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 | | | | | f2 | f3 | f4 | c1 | e2 | c1 | c | c | c | c | c | c | | | | f2 | f1 | f2 | f2 | f2 |
| 2 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 3 | c | f2 | f1 | | | | | | | c | c | c | c | c | c | c1 | e1 | e1 | f1 | f1 | c | c | c | c |
| 4 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | | | f1 | | f1 | | | |
| 5 | | | | | | | | | | | | | | | | c1 | | c1 | | | | | | |
| 6 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 7 | c | | | | | | | | | c | c | c | c | c | c | c | c | c | f1 | | | | | c |
| 8 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 9 | c | c | | | | | | | | c | c | c | c | c | c | c | | | | | | | | |
| 10 | | f1 | f1 | | | | | | | c | c | c | c1 | c | c | c | c | e1 | f1 | f1 | | f1 | | f1 |
| 11 | f1 | f1 | f1 | f1 | f1 | | | | | e1 | | | | c | | | | | | f1 | c | c | c | c |
| 12 | c | | | c1 | | | | | e1 | e1 | | | c | c | c | c | c | | f1 | f1 | f1 | f2 | f1 | f1 |
| 13 | f1 | | | | | | | | c1 | c1 | | c | | c | c | c | c | c | c | c | c | c | c | c |
| 14 | c | c | c | c | c | c | c | c | c | c | e1 | e1 | e1 | e2 | | | e1, c1 | e1 | f1 | f1 | f3 | f4 | f2 | |
| 15 | c | | | | f1 | | | c1 | e2 | | c | c | c | c | | | e1 | | c | c | c | c | c | c |
| 16 | | f1 | | | | | | | | | | c | c | | | | | c1 | | | | | f1 | |
| 17 | c | c | c | c | c | c | c | e4 | e2 | | | | | e2 | c | c | c | c | c | c | c | c | c | c |
| 18 | c | c | c | c | c | c | c | c | e | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 19 | f1 | f1 | f1 | | | | | | | | | | | | | | | | | | f1 | | | f1 |
| 20 | c | | | | | | | c2 | e1 | c | | c | e1 | c | c | c | c | c | c | c | c | c | c | c |
| 21 | | f1 | f1 | | | | | | e1 | e1 | | | | | | | | | | | f1 | | | |
| 22 | | | | | | f1 | | e3 | c | | c | | | | c | c | | | c | c | c | c | c | c |
| 23 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 24 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | f1 | | | c |
| 25 | c | | | | f1 | | | e1 | e3 | e2 | c2 | | c | c | e2 | c | e2 | c | f1 | | | c | c | c |
| 26 | c | | | | | | | | c | c | c | c | c | c | c | c | c1 | | | | | | | f1 |
| 27 | | | | | | | f2 | | e1 | c1 | c2 | c1 | c2 | c | | c | c | c | c | f1 | | | | |
| 28 | c | c | c | c | c | c | c | e1 | c | c | c | c | e3 | | c1 | c1 | e1 | e3 | f2 | f1 | | | | f1 |
| 29 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 30 | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c | c |
| 31 | c | | | | | | | | c | c | c1 | c1 | c1 | c1 | | | | | | | f1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Медиана | | | | | | | | | | | | | | | | | | | | | | | | |
| Учено | | | | | | | | | | | | | | | | | | | | | | | | |