

Ведомство ЦКЦФ

Обсерватория Магадан

Месяц Январь Год 1990

Широта 60° 05'  
Долгота 157° 01'

Элемент Угол склонения

Среднемесячн.  $\delta = -13^{\circ} 30.4'$

$\delta = -12^{\circ} 00.0'$

$\epsilon \delta$  с 1 по 4 =  $0.469''/\text{мм.}$   $\delta$  с 1-4 =  $-13^{\circ} 40.2'$   
5 по 31 =  $0.421''/\text{мм.}$  5-31 =  $-13^{\circ} 49.9'$

| Время<br>мировое | 1    | 2     | 3    | 4     | 5     | 6     | 7     | 8     | 9     | 10   | 11    | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   | Средн.<br>суточн. | Время<br>тах | Макс<br>тим | Мин<br>тим | Зрел<br>мим | Ампл | Сумма |
|------------------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|------|-------------------|--------------|-------------|------------|-------------|------|-------|
| 1                | 97.9 | 99.3  | 99.8 | 100.6 | 100.2 | 100.6 | 101.1 | 101.1 | 100.1 | 97.9 | 100.2 | 97.6 | 97.9 | 94.6 | 96.0 | 94.6 | 95.1 | 93.6 | 91.8 | 92.8 | 88.3 | 88.0 | 98.0              | 97.4         | 96.9        |            |             |      |       |
| 2                | 99.7 | 101.1 | 98.8 | 97.9  | 96.7  | 95.8  | 95.2  | 95.8  | 96.5  | 96.7 | 97.2  | 94.1 | 97.9 | 97.2 | 94.6 | 90.9 | 92.8 | 92.3 | 90.2 | 90.0 | 90.4 | 95.2 | 97.9              | 99.2         | 95.6        |            |             |      |       |
| 3                | 79.8 | 81.5  | 82.9 | 84.8  | 84.1  | 82.8  | 81.7  | 81.6  | 81.6  | 81.0 | 80.6  | 81.3 | 77.2 | 79.1 | 79.2 | 80.1 | 80.4 | 80.3 | 79.6 | 80.1 | 79.8 | 78.8 | 79.1              | 82.0         | 80.8        |            |             |      |       |
| 4                | 85.9 | 86.7  | 84.1 | 85.4  | 84.8  | 92.9  | 82.9  | 82.6  | 82.8  | 82.3 | 82.0  | 81.8 | 81.3 | 81.0 | 80.1 | 80.1 | 79.1 | 80.5 | 81.0 | 81.3 | 80.1 | 80.8 | 79.6              | 79.1         | 82.0        |            |             |      |       |
| 5                | 92.2 | 93.0  | 92.7 | 92.9  | 94.0  | 92.1  | 91.7  | 93.0  | 92.0  | 91.5 | 90.2  | 90.2 | 90.4 | 89.8 | 88.8 | 89.7 | 89.2 | 81.6 | 84.2 | 88.8 | 87.3 | 92.0 | 91.1              | 92.9         | 90.5        |            |             |      |       |
| Q 6              | 94.4 | 91.2  | 93.2 | 93.5  | 93.5  | 92.0  | 92.0  | 90.8  | 91.6  | 91.1 | 90.2  | 89.3 | 90.8 | 90.4 | 90.7 | 90.8 | 90.2 | 89.7 | 91.5 | 89.7 | 88.3 | 88.3 | 88.5              | 89.6         | 91.0        |            |             |      |       |
| Q 7              | 90.7 | 89.3  | 91.5 | 93.5  | 93.0  | 92.7  | 93.0  | 92.5  | 91.5  | 91.1 | 90.2  | 89.5 | 89.8 | 90.1 | 89.7 | 90.1 | 89.9 | 89.3 | 89.3 | 89.3 | 89.6 | 89.3 | 89.3              | 88.8         | 90.5        |            |             |      |       |
| 8                | 88.3 | 88.8  | 90.8 | 92.5  | 92.5  | 91.1  | 90.9  | 90.7  | 90.2  | 89.7 | 89.5  | 89.0 | 89.3 | 89.7 | 89.4 | 88.9 | 82.6 | 80.4 | 85.9 | 91.1 | 88.8 | 84.5 | 85.9              | 88.5         | 88.7        |            |             |      |       |
| 9                | 93.4 | 94.9  | 95.5 | 94.4  | 93.2  | 94.4  | 92.5  | 91.1  | 90.9  | 90.7 | 90.6  | 90.1 | 90.2 | 88.5 | 88.8 | 90.2 | 91.5 | 91.1 | 89.9 | 90.1 | 89.9 | 89.9 | 90.5              | 95.9         | 91.6        |            |             |      |       |
| 10               | 95.7 | 93.0  | 93.1 | 93.5  | 93.7  | 93.0  | 92.9  | 93.1  | 93.4  | 94.5 | 91.6  | 90.6 | 89.5 | 85.9 | 82.7 | 84.9 | 89.3 | 88.4 | 89.8 | 88.2 | 89.7 | 89.8 | 91.8              | 93.5         | 90.9        |            |             |      |       |
| 11               | 92.9 | 94.4  | 92.9 | 93.2  | 92.3  | 91.8  | 92.1  | 92.5  | 94.4  | 95.9 | 89.4  | 81.2 | 87.8 | 89.0 | 90.6 | 90.1 | 82.3 | 85.4 | 86.8 | 88.5 | 91.8 | 91.8 | 90.8              | 90.8         | 90.4        |            |             |      |       |
| 12               | 92.0 | 94.4  | 93.4 | 92.7  | 92.5  | 92.3  | 92.3  | 92.6  | 92.0  | 91.4 | 91.1  | 90.9 | 85.2 | 89.0 | 88.0 | 83.8 | 87.7 | 85.2 | 87.4 | 90.6 | 93.4 | 89.5 | 90.1              | 90.8         | 90.5        |            |             |      |       |
| 13               | 91.8 | 91.8  | 92.0 | 91.9  | 91.3  | 91.1  | 91.1  | 91.5  | 90.6  | 90.9 | 89.5  | 87.9 | 91.1 | 91.3 | 90.3 | 90.4 | 90.6 | 91.6 | 89.6 | 89.1 | 88.6 | 89.9 | 90.2              | 90.4         | 90.6        |            |             |      |       |
| 14               | 91.3 | 91.8  | 92.3 | 92.4  | 92.2  | 91.1  | 90.4  | 90.1  | 90.6  | 90.4 | 87.6  | 89.7 | 90.9 | 85.4 | 87.3 | 89.7 | 90.2 | 89.7 | 81.6 | 89.2 | 89.0 | 89.7 | 89.1              | 89.9         | 90.0        |            |             |      |       |
| 15               | 90.4 | 90.6  | 91.9 | 92.6  | 92.2  | 92.6  | 91.4  | 91.8  | 90.9  | 90.6 | 90.5  | 90.9 | 90.5 | 89.9 | 88.6 | 89.3 | 90.1 | 92.0 | 87.6 | 88.2 | 88.7 | 89.0 | 88.7              | 89.1         | 90.4        |            |             |      |       |
| 16               | 89.9 | 90.9  | 91.3 | 91.6  | 91.4  | 90.5  | 90.0  | 89.5  | 89.7  | 89.9 | 89.5  | 89.6 | 89.3 | 90.2 | 89.7 | 89.2 | 92.0 | 87.1 | 87.2 | 88.6 | 89.2 | 84.0 | 84.8              | 89.2         | 89.3        |            |             |      |       |
| 17               | 92.0 | 94.8  | 96.1 | 95.7  | 92.9  | 93.2  | 92.3  | 90.6  | 90.6  | 90.8 | 90.5  | 89.9 | 91.9 | 90.6 | 91.1 | 89.0 | 87.7 | 86.8 | 86.3 | 87.1 | 86.6 | 90.8 | 87.8              | 90.5         | 90.7        |            |             |      |       |
| 18               | 92.0 | 94.5  | 95.3 | 94.1  | 93.1  | 92.4  | 91.9  | 90.6  | 89.5  | 89.8 | 90.6  | 90.1 | 84.5 | 89.3 | 90.9 | 91.2 | 91.3 | 88.2 | 87.4 | 86.3 | 87.3 | 87.6 | 90.1              | 90.5         | 90.3        |            |             |      |       |
| Q 19             | 90.5 | 92.0  | 93.7 | 94.5  | 92.4  | 91.8  | 90.6  | 89.7  | 89.7  | 89.6 | 89.6  | 89.5 | 89.7 | 89.9 | 89.5 | 89.0 | 88.8 | 88.6 | 88.5 | 88.0 | 87.8 | 88.0 | 88.2              | 87.6         | 89.9        |            |             |      |       |
| 20               | 87.8 | 88.6  | 90.6 | 92.6  | 92.5  | 90.8  | 89.4  | 90.4  | 90.9  | 90.6 | 90.8  | 89.9 | 90.6 | 90.6 | 86.8 | 82.8 | 85.2 | 91.1 | 82.9 | 86.8 | 85.3 | 87.6 | 87.8              | 90.4         | 88.9        |            |             |      |       |
| 21               | 90.9 | 92.3  | 91.5 | 93.0  | 94.2  | 94.1  | 93.4  | 93.7  | 96.0  | 96.0 | 95.1  | 90.7 | 90.9 | 87.2 | 85.3 | 84.8 | 88.9 | 90.2 | 88.5 | 87.6 | 91.2 | 87.9 | 88.2              | 89.7         | 90.9        |            |             |      |       |
| 22               | 91.9 | 92.6  | 97.8 | 99.8  | 97.5  | 93.4  | 93.4  | 92.7  | 94.1  | 94.6 | 89.2  | 90.4 | 89.6 | 89.4 | 89.6 | 87.8 | 85.9 | 85.1 | 86.5 | 91.3 | 91.1 | 92.2 | 87.3              | 88.0         | 91.3        |            |             |      |       |
| 23               | 90.4 | 94.1  | 97.2 | 96.5  | 95.4  | 94.5  | 94.1  | 92.6  | 91.6  | 91.3 | 92.1  | 89.6 | 87.3 | 88.5 | 90.0 | 86.9 | 87.7 | 87.6 | 89.2 | 89.7 | 89.0 | 93.8 | 85.3              | 89.7         | 90.6        |            |             |      |       |
| 24               | 94.4 | 97.0  | 95.8 | 96.2  | 96.0  | 95.6  | 93.7  | 93.4  | 94.5  | 90.6 | 92.1  | 93.7 | 81.5 | 87.8 | 88.2 | 89.5 | 87.3 | 87.3 | 84.9 | 83.8 | 87.3 | 91.6 | 92.3              | 105.2        | 91.7        |            |             |      |       |
| 25               | 99.1 | 97.0  | 98.1 | 95.6  | 96.5  | 95.3  | 94.7  | 94.1  | 93.4  | 94.4 | 91.8  | 89.7 | 87.5 | 90.0 | 92.7 | 93.7 | 92.3 | 88.2 | 90.3 | 90.2 | 89.5 | 89.1 | 89.0              | 87.9         | 92.5        |            |             |      |       |
| 26               | 89.9 | 90.5  | 87.0 | 93.4  | 94.6  | 95.1  | 94.4  | 94.2  | 93.9  | 91.8 | 89.9  | 88.5 | 92.6 | 91.0 | 88.6 | 88.0 | 87.9 | 89.7 | 88.0 | 89.0 | 89.2 |      |                   |              |             |            |             |      |       |

Ведомство ЦЖЦФСреднемесячн. H = 17735Обсерватория МозадакЭлемент Горизонтальная составляющаяN<sub>01</sub> = 17699Σ<sub>н1</sub> = 2.03 с 1 по 4 янвМесяц Январь Год 1990N<sub>ар</sub> = 17600 +N<sub>01</sub> = 17691 Σ<sub>н1</sub> = 1.93 с 5 по 31 янв

| Время<br>мгн | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  | Средн.<br>суточн. | Время<br>тах | Макс<br>тум | Мин<br>тум | Время<br>изл:им | Ампл | Сумма |      |      |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|--------------|-------------|------------|-----------------|------|-------|------|------|
| 1            | 81  | 87  | 89  | 99  | 104 | 101 | 106 | 114 | 114 | 113 | 103 | 99  | 116 | 107 | 108 | 111 | 109 | 104 | 108 | 92  | 95  | 95  | 90                | 89           | 101         | 9.7        | 130             | 77   | 0.9   | 53   | 1437 |
| 2            | 87  | 93  | 109 | 115 | 117 | 117 | 118 | 117 | 115 | 119 | 121 | 108 | 119 | 115 | 115 | 106 | 102 | 109 | 117 | 112 | 100 | 101 | 103               | 111          | 110         | 10.9       | 135             | 77   | 0.7   | 58   | 1646 |
| 3            | 135 | 130 | 129 | 140 | 150 | 152 | 158 | 160 | 159 | 153 | 154 | 151 | 152 | 151 | 145 | 152 | 152 | 154 | 156 | 155 | 152 | 154 | 153               | 149          | 150         | 19.4       | 163             | 124  | 2.3   | 39   | 3596 |
| 4            | 152 | 140 | 129 | 140 | 141 | 138 | 140 | 144 | 142 | 144 | 144 | 143 | 142 | 155 | 136 | 140 | 140 | 153 | 142 | 148 | 146 | 149 | 151               | 144          | 143         | 13.8       | 192             | 117  | 3.0   | 75   | 3443 |
| 5            | 139 | 136 | 133 | 135 | 145 | 147 | 147 | 143 | 144 | 144 | 147 | 147 | 142 | 145 | 143 | 147 | 150 | 128 | 126 | 135 | 139 | 130 | 137               | 128          | 140         | 16.6       | 159             | 106  | 17.9  | 53   | 3357 |
| 6 Q          | 139 | 137 | 133 | 141 | 144 | 141 | 143 | 142 | 141 | 141 | 141 | 141 | 140 | 139 | 139 | 144 | 145 | 141 | 142 | 141 | 141 | 141 | 135               | 141          | 6.1         | 146        | 125             | 0.2  | 21    | 3376 |      |
| 7 Q          | 138 | 139 | 139 | 137 | 141 | 147 | 148 | 141 | 141 | 145 | 146 | 145 | 145 | 146 | 145 | 144 | 144 | 143 | 143 | 145 | 148 | 149 | 148               | 144          | 144         | 6.1        | 152             | 134  | 0.7   | 18   | 3451 |
| 8            | 137 | 135 | 136 | 142 | 151 | 153 | 152 | 153 | 155 | 155 | 154 | 153 | 155 | 156 | 160 | 158 | 147 | 126 | 139 | 137 | 121 | 127 | 128               | 120          | 144         | 14.6       | 180             | 113  | 17.4  | 67   | 3450 |
| 9            | 116 | 142 | 139 | 119 | 120 | 128 | 126 | 137 | 140 | 138 | 139 | 132 | 124 | 121 | 133 | 135 | 140 | 142 | 143 | 143 | 145 | 143 | 134               | 130          | 134         | 1.8        | 149             | 108  | 0.6   | 41   | 3209 |
| 10           | 126 | 124 | 120 | 122 | 124 | 128 | 132 | 127 | 114 | 122 | 117 | 110 | 118 | 112 | 117 | 121 | 133 | 134 | 147 | 131 | 136 | 141 | 140               | 135          | 126         | 18.6       | 166             | 97   | 13.8  | 69   | 3031 |
| 11           | 134 | 133 | 134 | 138 | 140 | 140 | 136 | 129 | 123 | 120 | 113 | 107 | 84  | 117 | 134 | 139 | 117 | 129 | 125 | 129 | 129 | 139 | 138               | 133          | 128         | 15.4       | 147             | 80   | 12.2  | 67   | 3060 |
| 12           | 128 | 123 | 127 | 130 | 127 | 123 | 133 | 133 | 131 | 134 | 127 | 139 | 113 | 116 | 123 | 117 | 123 | 131 | 122 | 127 | 134 | 146 | 150               | 146          | 129         | 11.3       | 195             | 82   | 11.9  | 113  | 3103 |
| 13           | 135 | 125 | 123 | 125 | 129 | 138 | 140 | 136 | 141 | 140 | 131 | 142 | 134 | 140 | 140 | 144 | 147 | 150 | 144 | 144 | 143 | 144 | 144               | 144          | 138         | 17.3       | 150             | 121  | 2.3   | 29   | 3323 |
| 14           | 136 | 132 | 132 | 133 | 139 | 143 | 146 | 146 | 144 | 144 | 144 | 132 | 130 | 154 | 145 | 133 | 144 | 144 | 146 | 144 | 146 | 144 | 140               | 136          | 141         | 13.9       | 181             | 128  | 15.4  | 53   | 3377 |
| 15           | 134 | 132 | 128 | 132 | 139 | 140 | 142 | 145 | 145 | 144 | 136 | 138 | 144 | 145 | 162 | 144 | 144 | 162 | 144 | 145 | 146 | 144 | 139               | 136          | 142         | 14.5       | 188             | 125  | 3.0   | 63   | 3410 |
| 16           | 138 | 142 | 142 | 147 | 150 | 150 | 152 | 154 | 152 | 150 | 149 | 152 | 155 | 153 | 154 | 149 | 144 | 137 | 135 | 138 | 142 | 134 | 129               | 119          | 144         | 12.6       | 156             | 117  | 23.7  | 39   | 3467 |
| 17           | 120 | 118 | 126 | 131 | 141 | 152 | 153 | 149 | 150 | 148 | 146 | 142 | 146 | 149 | 144 | 139 | 134 | 137 | 140 | 142 | 140 | 142 | 134               | 138          | 140         | 5.8        | 158             | 115  | 1.4   | 43   | 3361 |
| 18           | 140 | 135 | 133 | 134 | 140 | 148 | 155 | 152 | 152 | 152 | 152 | 142 | 138 | 149 | 150 | 149 | 156 | 149 | 147 | 142 | 143 | 138 | 133               | 129          | 144         | 16.4       | 160             | 118  | 12.2  | 42   | 3458 |
| 19 Q         | 121 | 117 | 121 | 133 | 144 | 152 | 155 | 156 | 156 | 156 | 154 | 152 | 152 | 152 | 154 | 156 | 156 | 156 | 159 | 161 | 165 | 163 | 150               | 136          | 149         | 20.6       | 171             | 116  | 2.4   |      |      |

Ведомство ИЖИПОбсерватория МолдаванМесяц Январь Год 1990Среднемесячн.  $\bar{Z} = 52602^{\circ}$ Элемент Вертикальная составляющая $\bar{Z} = 52500^{\circ} +$  $\bar{Z}_0 \bar{I} = 52535^{\circ} \pm 4$  $\bar{Z}_0 \bar{I} = 52558^{\circ} \pm 5-31$  $E \bar{Z} \bar{I} = 1.538^{\circ}/\text{мм.}$  $E \bar{Z} \bar{I} = 1.548^{\circ}/\text{мм.}$ 

| Время<br>мирное        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |      |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1                      | 100  | 100  | 102  | 100  | 103  | 102  | 102  | 104  | 105  | 108  | 109  | 111  | 106  | 102  | 100  | 99   | 87   | 77   |
| 2                      | 78   | 88   | 94   | 97   | 100  | 97   | 96   | 93   | 94   | 96   | 99   | 100  | 99   | 100  | 102  | 96   | 94   | 85   |
| 3                      | 90   | 88   | 90   | 90   | 91   | 92   | 91   | 88   | 86   | 86   | 87   | 90   | 90   | 89   | 90   | 90   | 87   | 85   |
| 4                      | 67   | 73   | 79   | 85   | 93   | 94   | 93   | 91   | 92   | 93   | 93   | 92   | 91   | 90   | 85   | 91   | 89   | 70   |
| 5                      | 104  | 104  | 105  | 107  | 110  | 111  | 110  | 109  | 110  | 113  | 113  | 111  | 113  | 113  | 110  | 108  | 93   | 76   |
| 6 Q                    | 99   | 101  | 106  | 109  | 113  | 112  | 110  | 108  | 109  | 110  | 111  | 110  | 110  | 110  | 108  | 107  | 107  | 107  |
| 7 Q                    | 106  | 104  | 102  | 104  | 110  | 110  | 110  | 108  | 110  | 111  | 111  | 110  | 110  | 108  | 108  | 107  | 107  | 107  |
| 8                      | 109  | 110  | 107  | 108  | 110  | 109  | 107  | 105  | 105  | 105  | 104  | 104  | 104  | 104  | 104  | 102  | 86   | 79   |
| 9                      | 96   | 97   | 98   | 102  | 110  | 113  | 112  | 113  | 111  | 110  | 110  | 110  | 113  | 113  | 111  | 108  | 108  | 107  |
| 10                     | 104  | 104  | 107  | 109  | 113  | 114  | 113  | 112  | 117  | 121  | 121  | 124  | 122  | 116  | 111  | 102  | 107  | 105  |
| 11                     | 102  | 104  | 106  | 107  | 108  | 108  | 108  | 108  | 114  | 130  | 124  | 113  | 107  | 111  | 104  | 96   | 87   | 78   |
| 12                     | 110  | 112  | 110  | 109  | 108  | 108  | 111  | 111  | 113  | 114  | 116  | 106  | 108  | 110  | 99   | 91   | 87   | 85   |
| 13                     | 108  | 110  | 110  | 108  | 107  | 108  | 108  | 108  | 108  | 108  | 110  | 108  | 108  | 108  | 107  | 105  | 102  | 95   |
| 14                     | 107  | 108  | 106  | 105  | 105  | 107  | 107  | 104  | 104  | 105  | 104  | 104  | 105  | 102  | 92   | 96   | 100  | 102  |
| 15                     | 107  | 108  | 108  | 107  | 108  | 108  | 107  | 105  | 104  | 105  | 108  | 110  | 108  | 107  | 99   | 97   | 101  | 87   |
| 16                     | 105  | 107  | 107  | 106  | 105  | 105  | 103  | 101  | 101  | 101  | 102  | 103  | 102  | 102  | 102  | 102  | 96   | 87   |
| 17                     | 101  | 104  | 107  | 107  | 111  | 113  | 109  | 107  | 107  | 107  | 107  | 107  | 108  | 108  | 108  | 110  | 99   | 100  |
| 18                     | 104  | 103  | 105  | 108  | 109  | 110  | 108  | 107  | 105  | 104  | 104  | 106  | 105  | 101  | 102  | 101  | 95   | 93   |
| 19 Q                   | 106  | 109  | 110  | 109  | 110  | 110  | 106  | 104  | 103  | 103  | 102  | 102  | 102  | 102  | 102  | 102  | 101  | 101  |
| 20                     | 107  | 104  | 102  | 104  | 105  | 104  | 101  | 102  | 101  | 102  | 105  | 108  | 107  | 110  | 107  | 101  | 109  | 90   |
| 21                     | 105  | 104  | 101  | 103  | 108  | 110  | 110  | 110  | 109  | 117  | 125  | 124  | 119  | 108  | 104  | 106  | 110  | 110  |
| 22 D                   | 97   | 102  | 102  | 107  | 113  | 113  | 111  | 111  | 114  | 116  | 119  | 117  | 116  | 114  | 111  | 107  | 93   | 87   |
| 23 D                   | 97   | 100  | 107  | 108  | 112  | 113  | 110  | 107  | 107  | 110  | 115  | 119  | 130  | 127  | 114  | 102  | 107  | 107  |
| 24 D                   | 96   | 99   | 103  | 107  | 111  | 114  | 112  | 111  | 116  | 119  | 127  | 131  | 118  | 109  | 110  | 107  | 92   | 52   |
| 25                     | 89   | 92   | 104  | 110  | 115  | 117  | 115  | 113  | 113  | 116  | 117  | 118  | 114  | 111  | 99   | 84   | 87   | 96   |
| 26                     | 101  | 101  | 105  | 108  | 109  | 110  | 110  | 107  | 108  | 109  | 110  | 111  | 113  | 110  | 107  | 97   | 101  | 94   |
| 27 Q                   | 105  | 108  | 108  | 107  | 107  | 108  | 107  | 105  | 107  | 107  | 107  | 105  | 105  | 104  | 104  | 104  | 104  | 104  |
| 28 Q                   | 101  | 102  | 103  | 99   | 99   | 101  | 101  | 99   | 98   | 99   | 100  | 100  | 99   | 99   | 98   | 97   | 98   | 99   |
| 29 D                   | 102  | 108  | 105  | 104  | 105  | 108  | 107  | 105  | 109  | 113  | 113  | 118  | 119  | 116  | 111  | 108  | 101  | 104  |
| 30 D                   | 98   | 105  | 105  | 108  | 107  | 109  | 107  | 107  | 108  | 110  | 110  | 110  | 112  | 108  | 105  | 107  | 104  | 68   |
| 31                     | 105  | 110  | 109  | 107  | 114  | 118  | 117  | 113  | 113  | 119  | 124  | 121  | 121  | 102  | 110  | 92   | 90   | 101  |
| Среднее по всем дням   | 100  | 102  | 104  | 105  | 107  | 108  | 107  | 106  | 106  | 109  | 110  | 110  | 109  | 107  | 104  | 101  | 98   | 92   |
| Среднее по сп. дням    | 103  | 105  | 106  | 106  | 108  | 108  | 107  | 105  | 105  | 106  | 106  | 105  | 105  | 105  | 104  | 103  | 103  | 104  |
| Среднее по возмущ. дн. | 98   | 103  | 104  | 107  | 110  | 111  | 109  | 108  | 111  | 114  | 117  | 119  | 119  | 115  | 110  | 106  | 99   | 84   |
| Сумма по всем дням     | 3106 | 3169 | 3213 | 3249 | 3329 | 3356 | 3319 | 3216 | 3301 | 3367 | 3407 | 3403 | 3384 | 3314 | 3224 | 3122 | 3029 | 2838 |
| Сумма по сп. дням      | 517  | 524  | 529  | 528  | 539  | 541  | 534  | 524  | 527  | 530  | 531  | 527  | 526  | 523  | 520  | 517  | 517  | 518  |
| Сумма по возмущ. дн.   | 490  | 514  | 522  | 534  | 548  | 557  | 547  | 541  | 554  | 568  | 584  | 595  | 595  | 574  | 557  | 531  | 497  | 418  |

| 19 | 20 | 21 | 22 | 23 | Средн.<br>суточн. | Время<br>тах | Max<br>tim | Mini<br>tim | Время<br>minim | Ампл | Сумма |      |
|----|----|----|----|----|-------------------|--------------|------------|-------------|----------------|------|-------|------|
| 85 | 67 | 27 | 38 | 53 | 59                | 89           | 11.5       | 112         | 20             | 20.3 | 92    | 2146 |
| 81 | 82 | 81 | 82 | 81 |                   |              |            |             |                |      |       |      |

Ведомство ЦЖИУ

Обсерватория Мозадак

Месяц Январь Год 1990

Элемент Полная сила

Среднемесячн.  $T = 55574^{\circ}$

Этс1 по 2 = 1.94  $\eta$ /мм.  
Э3 по 31 = 1.96  $\eta$ /мм.  
 $T = 55474^{\circ}$

| Время<br>мирное           | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                         | 91  | 93  | 95  | 97  | 101 | 99  | 101 | 107 | 107 | 109 | 108 | 107 | 108 | 101 | 100 | 99  | 86  | 78  |
| 2                         | 91  | 84  | 95  | 99  | 103 | 101 | 99  | 97  | 97  | 99  | 103 | 101 | 103 | 103 | 103 | 95  | 91  | 86  |
| 3                         | 121 | 117 | 118 | 121 | 127 | 129 | 129 | 127 | 125 | 123 | 125 | 125 | 125 | 125 | 123 | 127 | 125 | 123 |
| 4                         | 105 | 105 | 109 | 117 | 125 | 126 | 125 | 125 | 125 | 126 | 126 | 125 | 125 | 129 | 116 | 123 | 120 | 107 |
| 5                         | 116 | 115 | 115 | 118 | 124 | 126 | 125 | 123 | 123 | 127 | 129 | 127 | 126 | 127 | 125 | 123 | 109 | 88  |
| 6 Q                       | 110 | 113 | 116 | 121 | 126 | 125 | 123 | 121 | 122 | 123 | 125 | 124 | 122 | 122 | 121 | 121 | 121 | 119 |
| 7 Q                       | 117 | 117 | 115 | 116 | 122 | 125 | 125 | 121 | 123 | 125 | 126 | 125 | 123 | 123 | 123 | 121 | 121 | 121 |
| 8                         | 121 | 122 | 119 | 121 | 127 | 126 | 123 | 123 | 123 | 123 | 122 | 121 | 122 | 123 | 125 | 121 | 101 | 88  |
| 9                         | 99  | 110 | 111 | 107 | 115 | 121 | 119 | 123 | 123 | 122 | 121 | 119 | 119 | 119 | 122 | 119 | 121 | 119 |
| 10                        | 111 | 110 | 111 | 115 | 119 | 121 | 121 | 119 | 119 | 125 | 125 | 125 | 126 | 118 | 115 | 109 | 117 | 115 |
| 11                        | 112 | 113 | 116 | 118 | 121 | 121 | 119 | 116 | 120 | 134 | 126 | 113 | 99  | 116 | 114 | 109 | 91  | 87  |
| 12                        | 117 | 118 | 116 | 118 | 115 | 115 | 122 | 121 | 122 | 124 | 123 | 117 | 111 | 113 | 106 | 97  | 95  | 95  |
| 13                        | 118 | 117 | 116 | 115 | 115 | 120 | 120 | 118 | 121 | 120 | 118 | 121 | 118 | 122 | 118 | 119 | 116 | 110 |
| 14                        | 118 | 117 | 115 | 114 | 117 | 120 | 120 | 119 | 118 | 118 | 118 | 120 | 120 | 120 | 107 | 106 | 113 | 116 |
| 15                        | 118 | 118 | 116 | 116 | 120 | 120 | 119 | 119 | 119 | 119 | 119 | 122 | 122 | 120 | 120 | 113 | 115 | 107 |
| 16                        | 116 | 120 | 120 | 120 | 121 | 120 | 119 | 118 | 116 | 117 | 118 | 120 | 120 | 119 | 119 | 118 | 110 | 100 |
| 17                        | 107 | 108 | 114 | 116 | 123 | 129 | 125 | 122 | 122 | 122 | 120 | 122 | 122 | 123 | 122 | 121 | 110 | 112 |
| 18                        | 117 | 113 | 115 | 119 | 120 | 124 | 126 | 124 | 121 | 120 | 120 | 118 | 116 | 116 | 118 | 117 | 113 | 108 |
| 19 Q                      | 112 | 113 | 116 | 118 | 125 | 126 | 124 | 121 | 120 | 120 | 120 | 118 | 118 | 118 | 120 | 120 | 119 | 119 |
| 20                        | 116 | 114 | 114 | 117 | 121 | 122 | 118 | 122 | 120 | 120 | 122 | 124 | 122 | 124 | 118 | 104 | 111 | 95  |
| 21                        | 106 | 110 | 108 | 111 | 119 | 123 | 123 | 124 | 123 | 131 | 133 | 134 | 128 | 120 | 110 | 108 | 120 | 120 |
| 22 D                      | 102 | 104 | 100 | 108 | 124 | 126 | 123 | 123 | 128 | 127 | 128 | 128 | 126 | 126 | 123 | 120 | 109 | 100 |
| 23 D                      | 104 | 101 | 112 | 114 | 124 | 126 | 124 | 121 | 123 | 125 | 128 | 128 | 131 | 134 | 126 | 110 | 116 | 116 |
| 24 D                      | 102 | 104 | 107 | 117 | 119 | 124 | 124 | 126 | 128 | 129 | 131 | 139 | 133 | 117 | 116 | 115 | 101 | 59  |
| 25                        | 94  | 87  | 103 | 111 | 116 | 122 | 121 | 122 | 124 | 126 | 124 | 123 | 119 | 117 | 109 | 96  | 99  | 105 |
| 26                        | 103 | 103 | 105 | 110 | 114 | 117 | 118 | 118 | 120 | 120 | 120 | 118 | 124 | 122 | 117 | 105 | 107 | 105 |
| 27 Q                      | 110 | 111 | 110 | 112 | 118 | 120 | 119 | 118 | 121 | 122 | 120 | 119 | 119 | 118 | 118 | 118 | 118 | 117 |
| 28 Q                      | 109 | 110 | 110 | 108 | 112 | 116 | 119 | 118 | 118 | 118 | 119 | 119 | 119 | 119 | 120 | 118 | 118 | 118 |
| 29 D                      | 107 | 116 | 112 | 115 | 117 | 122 | 120 | 121 | 123 | 125 | 124 | 126 | 125 | 124 | 122 | 118 | 110 | 111 |
| 30 D                      | 100 | 110 | 111 | 118 | 120 | 125 | 124 | 122 | 124 | 125 | 125 | 123 | 125 | 115 | 112 | 112 | 107 | 81  |
| 31                        | 107 | 107 | 109 | 111 | 119 | 125 | 127 | 125 | 124 | 129 | 132 | 128 | 131 | 107 | 113 | 102 | 96  | 107 |
| Среднее<br>по всем дням   | 108 | 110 | 111 | 114 | 119 | 121 | 121 | 120 | 121 | 122 | 122 | 122 | 121 | 119 | 117 | 113 | 110 | 104 |
| Среднее<br>по сп. дням    | 112 | 113 | 113 | 115 | 121 | 122 | 122 | 120 | 121 | 122 | 122 | 121 | 120 | 120 | 120 | 120 | 119 | 119 |
| Среднее<br>по возмущ. дн. | 103 | 107 | 108 | 113 | 121 | 125 | 123 | 123 | 125 | 126 | 127 | 129 | 128 | 123 | 120 |     |     |     |

Ведомство ИЖЦФСреднемесячн.  $D = -13^{\circ}31.8$ Обсерватория МагаданШирота  $60^{\circ}07'$  Элемент  $1/201$  склонения $D_0 = -13^{\circ}49.9$  $E_D = 0.469 / \text{мм}$ Месяц Февраль Год 1990Долгота  $151^{\circ}01'$  $D_{\text{пр}} = -12^{\circ}00.0$  + $D_0 = -12^{\circ}109.9 =$ 

| Время<br>мировое | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8    | 9    | 10    | 11   | 12   | 13   | 14   | 15   | 16   | 17   |      |
|------------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|------|------|------|------|------|------|
| 1                | 91.0  | 91.3  | 92.7  | 94.1  | 95.2  | 94.4  | 93.1  | 91.7 | 91.2 | 90.7  | 90.5 | 90.2 | 91.2 | 90.8 | 87.2 | 88.4 | 87.0 | 84.3 |
| 2                | 96.8  | 98.1  | 95.5  | 94.7  | 97.3  | 96.8  | 96.3  | 93.6 | 93.5 | 91.5  | 89.8 | 94.0 | 92.1 | 90.3 | 91.7 | 83.6 | 88.8 | 78.1 |
| 3                | 93.1  | 92.6  | 92.1  | 92.4  | 93.5  | 93.6  | 93.1  | 92.5 | 92.1 | 91.7  | 90.5 | 90.7 | 90.7 | 90.7 | 92.1 | 89.3 | 88.9 | 90.2 |
| 4                | 89.0  | 91.9  | 93.0  | 95.4  | 95.9  | 95.6  | 94.6  | 94.4 | 92.6 | 92.1  | 91.7 | 92.1 | 91.6 | 89.9 | 89.8 | 86.6 | 83.2 | 85.2 |
| 5                | 95.0  | 99.2  | 101.7 | 95.9  | 95.4  | 95.9  | 95.4  | 93.8 | 93.6 | 96.2  | 80.7 | 90.4 | 92.6 | 92.1 | 89.7 | 90.7 | 88.6 | 96.6 |
| 6                | 92.1  | 92.1  | 94.3  | 97.0  | 95.0  | 94.5  | 92.6  | 92.1 | 92.6 | 91.7  | 91.2 | 90.9 | 90.5 | 90.4 | 90.4 | 89.3 | 87.9 | 89.3 |
| 7                | 87.9  | 89.1  | 91.1  | 92.6  | 93.5  | 93.3  | 93.6  | 93.6 | 92.5 | 101.5 | 97.7 | 95.8 | 93.4 | 89.7 | 89.2 | 86.5 | 82.9 | 83.2 |
| 8 Q              | 94.8  | 93.8  | 94.5  | 94.2  | 92.6  | 92.6  | 92.6  | 92.6 | 92.6 | 92.1  | 92.4 | 92.1 | 91.7 | 91.3 | 91.4 | 91.1 | 90.7 | 91.0 |
| 9 Q              | 90.1  | 89.9  | 90.7  | 91.2  | 91.7  | 91.7  | 92.6  | 91.9 | 91.4 | 91.9  | 90.5 | 91.9 | 90.7 | 89.8 | 87.9 | 89.8 | 87.5 | 89.7 |
| 10 Q             | 90.9  | 91.7  | 92.5  | 92.5  | 91.6  | 91.2  | 90.8  | 91.7 | 91.8 | 91.6  | 91.2 | 90.2 | 90.3 | 88.9 | 88.4 | 87.5 | 88.9 | 86.9 |
| 11               | 89.3  | 90.7  | 91.7  | 91.9  | 92.1  | 90.7  | 91.1  | 91.7 | 91.2 | 89.3  | 90.8 | 90.7 | 89.6 | 89.9 | 89.3 | 85.6 | 82.8 | 85.1 |
| 12 Q             | 90.0  | 93.1  | 94.0  | 93.8  | 92.8  | 93.1  | 92.1  | 92.1 | 91.3 | 91.7  | 91.4 | 91.7 | 90.7 | 89.3 | 88.9 | 89.3 | 89.3 | 89.3 |
| 13 Q             | 89.2  | 89.6  | 90.0  | 90.3  | 90.5  | 90.7  | 90.3  | 90.3 | 90.4 | 90.7  | 90.7 | 90.6 | 91.1 | 90.3 | 89.8 | 89.3 | 88.6 | 85.6 |
| 14               | 95.0  | 95.7  | 93.9  | 95.3  | 99.7  | 102.7 | 100.1 | 96.5 | 95.4 | 94.9  | 92.1 | 92.6 | 91.8 | 92.1 | 90.8 | 90.3 | 90.2 | 90.3 |
| 15               | 91.4  | 93.0  | 93.1  | 92.8  | 92.1  | 92.1  | 91.6  | 91.7 | 92.7 | 93.3  | 93.4 | 92.6 | 89.0 | 83.7 | 81.3 | 81.8 | 81.7 | 87.7 |
| 16 D             | 104.3 | 110.9 | 106.8 | 102.8 | 101.2 | 101.9 | 98.0  | 95.0 | 92.8 | 92.2  | 93.1 | 91.4 | 95.4 | 91.1 | 94.5 | 94.9 | 88.9 | 90.7 |
| 17 D             | 98.7  | 104.3 | 100.1 | 99.4  | 103.9 | 98.3  | 94.5  | 94.9 | 94.5 | 94.0  | 98.2 | 90.7 | 93.6 | 89.8 | 88.3 | 90.8 | 85.7 | 83.2 |
| 18               | 90.7  | 92.7  | 96.4  | 98.2  | 97.3  | 96.8  | 95.8  | 97.3 | 94.0 | 92.5  | 93.7 | 96.0 | 89.4 | 89.3 | 89.3 | 90.3 | 90.3 | 88.8 |
| 19 D             | 96.0  | 96.4  | 96.8  | 95.4  | 95.5  | 97.4  | 95.6  | 94.9 | 93.5 | 98.7  | 95.7 | 91.4 | 90.2 | 90.4 | 87.0 | 87.1 | 85.6 | 88.4 |
| 20 D             | 99.1  | 95.9  | 97.3  | 98.8  | 96.1  | 94.5  | 95.4  | 98.2 | 96.4 | 95.4  | 94.0 | 93.4 | 89.7 | 80.9 | 89.3 | 88.0 | 91.1 | 94.2 |
| 21               | 96.3  | 96.4  | 96.4  | 96.5  | 96.4  | 95.4  | 93.2  | 92.6 | 92.9 | 92.1  | 90.3 | 90.3 | 92.1 | 93.5 | 88.8 | 89.3 | 89.9 | 89.5 |
| 22               | 89.6  | 93.0  | 94.5  | 94.5  | 94.9  | 94.7  | 96.8  | 96.8 | 93.6 | 93.2  | 93.3 | 90.2 | 90.7 | 90.7 | 87.9 | 86.1 | 87.2 | 87.0 |
| 23 D             | 103.7 | 98.6  | 97.7  | 97.2  | 94.3  | 94.5  | 95.8  | 94.0 | 95.9 | 97.8  | 94.1 | 87.4 | 88.8 | 87.5 | 82.3 | 72.5 | 88.5 | 94.0 |
| 24               | 96.5  | 99.2  | 101.1 | 102.2 | 98.9  | 97.8  | 94.4  | 93.0 | 90.7 | 96.3  | 93.7 | 91.7 | 89.3 | 89.7 | 90.3 | 84.9 | 86.5 | 89.1 |
| 25               | 99.9  | 105.2 | 104.3 | 102.9 | 100.6 | 96.8  | 96.3  | 95.0 | 95.1 | 96.6  | 87.4 | 83.7 | 88.2 | 88.0 | 83.8 | 80.0 | 90.3 | 88.7 |
| 26               | 95.0  | 98.2  | 97.6  | 98.4  | 98.2  | 95.8  | 94.5  | 93.8 | 93.1 | 93.0  | 95.0 | 96.6 | 88.5 | 85.6 | 90.3 | 90.4 | 90.5 | 90.7 |
| 27               | 96.1  | 95.7  | 96.0  | 96.1  | 97.3  | 97.8  | 100.5 | 97.5 | 95.4 | 93.7  | 92.6 | 82.8 | 90.3 | 88.1 | 84.2 | 90.3 | 91.1 | 89.4 |
| 28               | 92.1  | 92.9  | 94.3  | 103.1 | 100.2 | 100.3 | 99.6  | 99.2 | 94.4 | 91.8  | 89.8 | 94.0 | 91.6 | 85.3 | 88.9 | 90.0 | 89.0 | 91.7 |
| 29               |       |       |       |       |       |       |       |      |      |       |      |      |      |      |      |      |      |      |
| 30               |       |       |       |       |       |       |       |      |      |       |      |      |      |      |      |      |      |      |

Ведомство ЦЖЦФСреднемесячн.  $H = 17722$ Обсерватория МоздокЭлемент Горизонтальная составляющаяМесяц сентябрь Год 1990 $H_{пр} = 17600$  + $H_{д1} = 17691$   $\epsilon_H = 1.93$ 

| Время<br>мировое          | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |     |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1                         | 112  | 110  | 115  | 123  | 127  | 133  | 138  | 139  | 138  | 143  | 141  | 145  | 128  | 114  | 128  | 135  | 134  | 101 |
| 2                         | 94   | 105  | 121  | 123  | 126  | 112  | 128  | 134  | 133  | 118  | 125  | 138  | 121  | 97   | 113  | 108  | 66   | 100 |
| 3                         | 106  | 107  | 108  | 113  | 124  | 127  | 131  | 134  | 133  | 132  | 132  | 132  | 135  | 134  | 135  | 133  | 135  | 141 |
| 4                         | 135  | 123  | 107  | 114  | 122  | 130  | 139  | 142  | 135  | 135  | 141  | 142  | 144  | 137  | 150  | 142  | 147  | 94  |
| 5                         | 107  | 101  | 85   | 111  | 118  | 115  | 113  | 114  | 107  | 105  | 151  | 103  | 120  | 128  | 128  | 128  | 127  | 130 |
| 6                         | 121  | 110  | 100  | 105  | 115  | 117  | 122  | 121  | 128  | 135  | 137  | 137  | 138  | 139  | 136  | 135  | 133  | 133 |
| 7                         | 124  | 116  | 114  | 124  | 134  | 133  | 130  | 130  | 116  | 112  | 117  | 98   | 60   | 83   | 87   | 85   | 96   | 71  |
| 8 Q                       | 122  | 116  | 114  | 124  | 132  | 130  | 135  | 134  | 134  | 134  | 133  | 132  | 135  | 133  | 134  | 135  | 136  | 137 |
| 9 Q                       | 119  | 118  | 120  | 128  | 134  | 133  | 128  | 134  | 138  | 135  | 131  | 128  | 134  | 136  | 137  | 153  | 136  | 140 |
| 10 Q                      | 124  | 127  | 133  | 140  | 144  | 145  | 146  | 144  | 139  | 139  | 147  | 146  | 143  | 149  | 159  | 134  | 141  | 148 |
| 11                        | 130  | 129  | 131  | 137  | 143  | 145  | 144  | 139  | 141  | 133  | 138  | 139  | 143  | 149  | 158  | 143  | 124  | 135 |
| 12 Q                      | 127  | 118  | 130  | 139  | 136  | 142  | 141  | 140  | 139  | 135  | 139  | 142  | 143  | 144  | 142  | 145  | 147  | 147 |
| 13 Q                      | 131  | 132  | 136  | 142  | 149  | 150  | 149  | 149  | 147  | 145  | 147  | 146  | 143  | 147  | 151  | 147  | 154  | 166 |
| 14                        | 126  | 148  | 134  | 134  | 131  | 124  | 147  | 149  | 162  | 135  | 128  | 124  | 125  | 124  | 129  | 132  | 130  | 130 |
| 15                        | 121  | 117  | 115  | 120  | 127  | 134  | 133  | 140  | 141  | 128  | 118  | 129  | 124  | 114  | 96   | 79   | 81   | 109 |
| 16 D                      | 75   | 58   | 62   | 101  | 121  | 130  | 120  | 115  | 107  | 107  | 108  | 108  | 126  | 109  | 128  | 99   | 119  | 106 |
| 17 D                      | 60   | 74   | 91   | 79   | 95   | 118  | 126  | 128  | 126  | 112  | 128  | 139  | 104  | 94   | 105  | 128  | 113  | 101 |
| 18                        | 103  | 88   | 83   | 102  | 114  | 129  | 133  | 124  | 127  | 122  | 132  | 128  | 139  | 112  | 127  | 127  | 131  | 130 |
| 19 D                      | 83   | 87   | 96   | 106  | 113  | 124  | 126  | 129  | 133  | 141  | 131  | 136  | 131  | 135  | 62   | 105  | 115  | 121 |
| 20 D                      | 125  | 107  | 93   | 107  | 120  | 122  | 116  | 102  | 128  | 118  | 108  | 108  | 121  | 142  | 118  | 116  | 120  | 108 |
| 21                        | 107  | 110  | 107  | 116  | 119  | 120  | 126  | 131  | 128  | 126  | 122  | 122  | 127  | 143  | 130  | 129  | 130  | 131 |
| 22                        | 107  | 101  | 101  | 107  | 119  | 126  | 119  | 125  | 132  | 138  | 139  | 137  | 141  | 147  | 135  | 129  | 125  | 124 |
| 23 D                      | 82   | 107  | 100  | 112  | 117  | 129  | 143  | 128  | 139  | 140  | 132  | 128  | 111  | 117  | 125  | 70   | 97   | 113 |
| 24                        | 77   | 75   | 75   | 95   | 106  | 119  | 118  | 117  | 128  | 124  | 125  | 128  | 128  | 119  | 122  | 110  | 113  | 96  |
| 25                        | 77   | 74   | 79   | 79   | 104  | 126  | 132  | 126  | 132  | 122  | 95   | 107  | 96   | 91   | 84   | 122  | 117  | 109 |
| 26                        | 81   | 87   | 103  | 102  | 101  | 114  | 124  | 130  | 134  | 137  | 147  | 107  | 131  | 100  | 113  | 116  | 118  | 120 |
| 27                        | 106  | 99   | 104  | 108  | 122  | 122  | 103  | 137  | 129  | 126  | 134  | 107  | 101  | 103  | 110  | 116  | 120  | 122 |
| 28                        | 107  | 110  | 96   | 83   | 97   | 127  | 124  | 114  | 111  | 118  | 116  | 118  | 124  | 113  | 116  | 124  | 120  | 120 |
| 29                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 30                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 31                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| Среднее<br>по всем дням   | 107  | 106  | 105  | 113  | 122  | 128  | 130  | 130  | 132  | 128  | 130  | 127  | 126  | 123  | 124  | 122  | 122  | 121 |
| Среднее<br>по сп. дням    | 125  | 122  | 127  | 135  | 139  | 140  | 140  | 140  | 139  | 138  | 139  | 139  | 140  | 142  | 145  | 143  | 143  | 148 |
| Среднее<br>по возмущ. дн. | 85   | 87   | 88   | 101  | 113  | 125  | 126  | 120  | 127  | 124  | 121  | 124  | 119  | 119  | 108  | 104  | 113  | 110 |
| Сумма<br>по всем дням     | 2989 | 2954 | 2953 | 3174 | 3410 | 3576 | 3634 | 3640 | 3685 | 3595 | 3642 | 3554 | 3516 | 3453 | 3458 | 3425 | 3425 | 338 |

Ведомство ЦЖИФ

Среднемесячн.

 $\Sigma = 52604^{\circ}$ Обсерватория МоздокЭлемент Вертикальная составляющаяМесяц февраль Год 1990 $\Sigma = 52500^{\circ} +$  $\epsilon \Sigma = 1.54^{\circ}/\text{мм} \Sigma = 52558^{\circ}$ 

| Время<br>мирное | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1               | 109 | 112 | 114 | 111 | 111 | 112 | 111 | 107 | 108 | 110 | 107 | 110 | 118 | 110 | 119 | 113 | 99  | 40  |
| 2               | 110 | 110 | 108 | 107 | 110 | 113 | 115 | 116 | 118 | 122 | 127 | 127 | 124 | 127 | 129 | 107 | 69  | 53  |
| 3               | 112 | 114 | 114 | 113 | 112 | 111 | 111 | 111 | 110 | 110 | 110 | 110 | 110 | 110 | 101 | 92  | 99  | 95  |
| 4               | 97  | 97  | 102 | 107 | 110 | 112 | 111 | 109 | 107 | 109 | 110 | 113 | 115 | 116 | 112 | 112 | 96  | 29  |
| 5               | 100 | 105 | 108 | 113 | 118 | 121 | 123 | 122 | 127 | 138 | 127 | 112 | 118 | 105 | 93  | 87  | 77  | 67  |
| 6               | 107 | 107 | 108 | 111 | 116 | 118 | 118 | 116 | 116 | 114 | 112 | 110 | 110 | 108 | 108 | 107 | 105 | 107 |
| 7               | 108 | 106 | 105 | 105 | 108 | 109 | 110 | 114 | 126 | 140 | 141 | 124 | 116 | 127 | 117 | 113 | 89  | 80  |
| 8 Q             | 97  | 104 | 110 | 115 | 118 | 118 | 116 | 114 | 113 | 113 | 113 | 114 | 113 | 110 | 110 | 110 | 109 | 109 |
| 9 Q             | 111 | 111 | 113 | 112 | 111 | 111 | 111 | 110 | 110 | 110 | 110 | 112 | 111 | 109 | 107 | 101 | 96  | 105 |
| 10 Q            | 107 | 105 | 106 | 107 | 108 | 107 | 107 | 107 | 107 | 109 | 108 | 107 | 107 | 105 | 90  | 90  | 102 | 105 |
| 11              | 108 | 108 | 110 | 111 | 110 | 106 | 105 | 107 | 107 | 109 | 110 | 110 | 108 | 107 | 96  | 84  | 84  | 85  |
| 12 Q            | 101 | 100 | 101 | 102 | 103 | 105 | 108 | 108 | 108 | 110 | 110 | 110 | 108 | 106 | 106 | 105 | 104 | 104 |
| 13 Q            | 102 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 102 | 103 | 103 | 105 | 105 | 104 | 102 | 103 | 101 |
| 14              | 99  | 97  | 96  | 92  | 96  | 111 | 118 | 123 | 124 | 119 | 116 | 115 | 114 | 114 | 113 | 111 | 110 | 110 |
| 15              | 102 | 108 | 113 | 113 | 110 | 110 | 108 | 108 | 108 | 110 | 116 | 116 | 116 | 102 | 98  | 81  | 56  | 34  |
| 16 D            | 83  | 97  | 110 | 127 | 133 | 130 | 138 | 136 | 136 | 133 | 127 | 128 | 127 | 126 | 118 | 81  | 98  | 96  |
| 17 D            | 77  | 93  | 102 | 110 | 118 | 124 | 123 | 123 | 125 | 131 | 147 | 145 | 118 | 133 | 122 | 81  | 71  | 82  |
| 18              | 91  | 101 | 110 | 113 | 113 | 116 | 119 | 122 | 125 | 129 | 127 | 133 | 133 | 120 | 121 | 112 | 99  | 86  |
| 19 D            | 96  | 104 | 110 | 118 | 118 | 118 | 119 | 118 | 116 | 124 | 133 | 133 | 110 | 84  | 71  | 67  | 82  | 87  |
| 20 D            | 92  | 96  | 110 | 111 | 116 | 120 | 124 | 128 | 131 | 139 | 144 | 147 | 133 | 113 | 91  | 104 | 97  | 54  |
| 21              | 82  | 90  | 104 | 111 | 114 | 113 | 113 | 111 | 112 | 114 | 116 | 116 | 114 | 105 | 93  | 99  | 105 | 107 |
| 22              | 111 | 114 | 114 | 116 | 118 | 120 | 119 | 118 | 116 | 11  |     |     |     |     |     |     |     |     |

Ведомство ИЖИФОбсерватория МагаданМесяц Февраль Год 1990

Среднемесячн.

 $T = 55510^\circ$ Элемент Полная сила $T = 55400^\circ +$  $E_T = 1.95^\circ/\text{мм}$   $T = 55473^\circ$ 

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16          | 17     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|--------|
| 1                | 108 | 112 | 118 | 116 | 118 | 122 | 122 | 119 | 120 | 122 | 120 | 122 | 126 | 113 | 126 | 122         | 108 38 |
| 2                | 104 | 108 | 114 | 113 | 116 | 114 | 122 | 124 | 127 | 126 | 132 | 135 | 128 | 122 | 130 | 106 52 53   |        |
| 3                | 110 | 112 | 114 | 114 | 116 | 117 | 119 | 118 | 118 | 117 | 118 | 118 | 118 | 117 | 110 | 100 107 106 |        |
| 4                | 106 | 101 | 100 | 108 | 113 | 118 | 120 | 120 | 116 | 116 | 120 | 122 | 126 | 124 | 124 | 123 108 24  |        |
| 5                | 98  | 98  | 99  | 114 | 120 | 122 | 124 | 124 | 127 | 133 | 137 | 110 | 122 | 112 | 101 | 94 87 77    |        |
| 6                | 112 | 108 | 106 | 110 | 119 | 122 | 122 | 121 | 122 | 124 | 124 | 122 | 121 | 120 | 119 | 118 114 116 |        |
| 7                | 114 | 110 | 108 | 112 | 119 | 118 | 119 | 122 | 128 | 139 | 142 | 118 | 101 | 119 | 110 | 106 85 65   |        |
| 8 Q              | 103 | 108 | 114 | 122 | 126 | 126 | 126 | 124 | 124 | 124 | 123 | 123 | 123 | 120 | 120 | 120 120 120 |        |
| 9 Q              | 116 | 116 | 118 | 120 | 121 | 122 | 119 | 120 | 121 | 120 | 118 | 120 | 121 | 120 | 118 | 118 108 118 |        |
| 10 Q             | 113 | 112 | 116 | 120 | 122 | 121 | 122 | 121 | 118 | 120 | 123 | 121 | 120 | 120 | 109 | 100 114 120 |        |
| 11               | 116 | 117 | 118 | 122 | 123 | 120 | 120 | 118 | 120 | 118 | 121 | 122 | 122 | 114 | 98  | 91 96       |        |
| 12 Q             | 108 | 104 | 110 | 114 | 114 | 118 | 120 | 120 | 120 | 120 | 122 | 122 | 120 | 120 | 118 | 119 119 119 |        |
| 13 Q             | 111 | 110 | 112 | 114 | 117 | 116 | 116 | 116 | 116 | 116 | 118 | 118 | 120 | 120 | 118 | 121 123     |        |
| 14               | 106 | 112 | 106 | 102 | 104 | 116 | 132 | 137 | 142 | 129 | 124 | 122 | 121 | 120 | 121 | 119 118     |        |
| 15               | 108 | 112 | 116 | 118 | 118 | 119 | 118 | 120 | 120 | 118 | 120 | 124 | 123 | 106 | 96  | 70 52 40    |        |
| 16 D             | 75  | 83  | 96  | 124 | 137 | 137 | 141 | 137 | 135 | 132 | 128 | 128 | 132 | 126 | 124 | 79 103 96   |        |
| 17 D             | 63  | 85  | 96  | 102 | 114 | 126 | 128 | 130 | 131 | 132 | 152 | 153 | 116 | 128 | 119 | 91 76 82    |        |
| 18               | 91  | 94  | 102 | 111 | 116 | 124 | 128 | 126 | 131 | 133 | 135 | 138 | 143 | 121 | 127 | 119 108 96  |        |
| 19 D             | 90  | 98  | 106 | 117 | 120 | 124 | 126 | 124 | 126 | 134 | 139 | 141 | 118 | 94  | 54  | 65 88 94    |        |
| 20 D             | 99  | 96  | 104 | 112 | 121 | 125 | 128 | 126 | 137 | 140 | 143 | 145 | 137 | 124 | 96  | 107 102 55  |        |
| 21               | 83  | 92  | 104 | 114 | 118 | 118 | 120 | 120 | 120 | 120 | 121 | 122 | 118 | 102 | 108 | 114 116     |        |
| 22               | 111 | 112 | 112 | 116 | 122 | 126 | 122 | 124 | 124 | 126 | 128 | 129 | 128 | 132 | 113 | 98 112 111  |        |
| 23 D             | 88  | 96  | 98  |     |     |     |     |     |     |     |     |     |     |     |     |             |        |

Ведомство ЦЖИУОбсерватория МоздокЭлемент Угол склонения

Среднемесячн.

 $= -12^{\circ} 92.1$  $\epsilon_{H_0} = 0.284/\text{мм}$ Месяц март Год 1990 $D_{\text{пр.}} = -12^{\circ} 00' 0''$  $\epsilon_H = 0.467/\text{мм}$   $D = -12^{\circ} 109.8$   $D_0 = -12^{\circ} 82.5$ 

| Время<br>мирное | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |      |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1               | 94.7 | 97.2 | 96.7 | 97.5 | 99.1 | 97.5 | 93.0 | 92.4 | 93.0 | 94.1 | 94.2 | 90.5 | 90.9 | 83.6 | 86.4 | 83.7 | 84.9 | 87.5 |
| 2               | 91.9 | 93.6 | 95.8 | 97.0 | 97.5 | 96.1 | 94.7 | 93.5 | 93.9 | 96.5 | 94.7 | 91.1 | 90.5 | 89.7 | 88.6 | 87.9 | 88.6 | 91.9 |
| 3               | 90.5 | 92.4 | 95.2 | 95.6 | 94.9 | 94.4 |      |      |      |      |      |      |      |      |      |      |      |      |

Ведомство ИЖИФСреднемесячн. И = 17716Обсерватория МозаганЭлемент Горизонтальная состав. $E_{H_0} = 2.66$   $H_0 = 17687'$ Месяц Июль Год 1990 $H_{кр.} = 17600 +$  $E_H = 1.95'$   $H_0 = 17691'$ 

| Время<br>мирное | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1               | 83  | 102 | 111 | 113 | 117 | 125 | 134 | 133 | 137 | 129 | 125 | 136 | 132 | 133 | 123 | 118 | 122 |
| 2               | 100 | 97  | 92  | 104 | 123 | 123 | 119 | 128 | 135 | 126 | 103 | 120 | 133 | 143 | 138 | 129 | 133 |
| 3               | 94  | 91  | 94  | 110 | 126 | 137 | 139 | 137 | 141 | 141 | 143 | 147 | 143 | 140 | 149 | 149 | 131 |
| 4 Q             | 112 | 105 | 103 | 113 | 125 | 135 | 143 | 141 | 135 | 127 | 136 | 141 | 145 | 146 | 143 | 145 | 147 |
| 5               | 121 | 121 | 112 | 113 | 123 | 127 | 137 | 138 | 134 | 134 | 137 | 143 | 147 | 147 | 147 | 149 | 150 |
| 6               | 102 | 78  | 84  | 90  | 97  | 106 | 115 | 127 | 125 | 131 | 137 | 131 | 128 | 139 | 127 | 107 | 119 |
| 7               | 113 | 106 | 108 | 110 | 121 | 135 | 143 | 138 | 143 | 139 | 138 | 141 | 141 | 113 | 109 | 135 | 143 |
| 8               | 125 | 119 | 117 | 118 | 130 | 137 | 143 | 144 | 147 | 145 | 128 | 138 | 144 | 148 | 149 | 141 | 137 |
| 9               | 108 | 104 | 107 | 115 | 125 | 139 | 145 | 147 | 143 | 141 | 130 | 141 | 141 | 135 | 141 | 149 | 154 |
| 10 Q            | 111 | 106 | 111 | 115 | 125 | 137 | 143 | 145 | 141 | 145 | 146 | 145 | 143 | 143 | 137 | 135 | 145 |
| 11              | 110 | 98  | 92  | 110 | 129 | 143 | 149 | 152 | 147 | 150 | 143 | 137 | 147 | 149 | 150 | 158 | 147 |
| 12 D            | 112 | 107 | 107 | 119 | 123 | 139 | 151 | 147 | 139 | 129 | 143 | 149 | 151 | 153 | 148 | 171 | 143 |
| 13              | 32  | 31  | 38  | 48  | 54  | 63  | 82  | 85  | 91  | 97  | 98  | 89  | 82  | 86  | 104 | 117 | 132 |
| 14              | 59  | 61  | 92  | 112 | 110 | 119 | 113 | 119 | 122 | 125 | 130 | 106 | 130 | 123 | 122 | 135 | 140 |
| 15              | 102 | 91  | 90  | 98  | 114 | 130 | 135 | 136 | 136 | 141 | 143 | 141 | 137 | 153 | 133 | 129 | 131 |
| 16 Q            | 96  | 98  | 103 | 113 | 127 | 137 | 147 | 151 | 143 | 141 | 139 | 143 | 143 | 141 | 150 | 145 | 142 |
| 17 Q            | 119 | 111 | 112 | 120 | 131 | 141 | 150 | 152 | 149 | 151 | 150 | 150 | 151 | 151 | 151 | 152 | 153 |
| 18              | 123 | 112 | 113 | 127 | 137 | 147 | 156 | 170 | 174 | 172 | 172 | 174 | 122 | 117 | 100 | 84  | 100 |
| 19              | 74  | 39  | 76  | 89  | 102 | 120 | 133 | 139 | 134 | 133 | 139 | 138 | 137 | 135 | 135 | 135 | 130 |
| 20              | 104 | 96  | 88  | 100 | 115 | 137 | 143 | 151 | 149 | 155 | 155 | 149 | 146 | 127 | 113 | 105 | 100 |
| 21 D            | -52 | 25  | 28  | 63  | 60  | 76  | 94  | 155 | 126 | 80  | 84  | 78  | 97  | 104 | 67  | 37  | 51  |
| 22              | 51  | 39  | 47  | 59  | 71  | 92  | 112 | 117 | 118 | 119 | 128 | 106 | 108 | 104 | 112 | 113 |     |

Ведомство ИЖИФСреднемесячн. 7 = 52609Обсерватория МозаганЭлемент Вертикальная сост. $\xi_{z_{\text{пр}}} = 3.09^{\circ}/\text{мин}$   $z_{0\text{пр}} = 52984$ Месяц Март Год 1990г. $z = 52500 +$  $\xi_{z_{\text{т}}} = 1.53^{\circ}/\text{мин}$   $z_{\text{т}} = 52558$ 

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 109 | 116 | 117 | 117 | 105 | 107 | 105 | 105 | 123 | 126 | 126 | 120 | 120 | 108 | 103 | 104 | 81  | 93  |
| 2                | 111 | 111 | 116 | 119 | 119 | 119 | 121 | 119 | 122 | 134 | 155 | 145 | 129 | 119 | 107 | 108 | 109 | 102 |
| 3                | 114 | 113 | 111 | 109 | 113 | 116 | 117 | 116 | 114 | 115 | 115 | 113 | 113 | 114 | 102 | 100 | 97  | 90  |
| 4 Q              | 103 | 100 | 105 | 106 | 108 | 108 | 109 | 111 | 111 | 114 | 116 | 113 | 111 | 111 | 110 | 109 | 108 | 108 |
| 5                | 96  | 99  | 104 | 108 | 108 | 111 | 113 | 114 | 113 | 113 | 113 | 113 | 113 | 111 | 111 | 108 | 108 | 107 |
| 6                | 102 | 102 | 109 | 113 | 116 | 122 | 124 | 124 | 123 | 122 | 119 | 119 | 121 | 108 | 104 | 93  | 80  | 80  |
| 7                | 102 | 105 | 106 | 108 | 113 | 116 | 113 | 113 | 113 | 113 | 113 | 115 | 115 | 111 | 108 | 108 | 108 | 108 |
| 8                | 106 | 106 | 108 | 109 | 113 | 109 | 109 | 111 | 108 | 108 | 111 | 113 | 109 | 108 | 106 | 95  | 96  | 102 |
| 9                | 105 | 109 | 110 | 108 | 111 | 109 | 108 | 107 | 108 | 108 | 109 | 109 | 108 | 107 | 107 | 105 | 97  | 99  |
| 10 Q             | 102 | 102 | 104 | 103 | 105 | 108 | 108 | 108 | 108 | 109 | 108 | 108 | 108 | 108 | 105 | 103 | 105 | 105 |
| 11               | 102 | 102 | 105 | 108 | 106 | 108 | 108 | 109 | 108 | 107 | 108 | 109 | 109 | 108 | 105 | 94  | 88  | 93  |
| 12 D             | 108 | 105 | 105 | 106 | 108 | 108 | 108 | 109 | 109 | 111 | 111 | 109 | 108 | 106 | 106 | 73  | 67  | 69  |
| 13               | 83  | 105 | 114 | 117 | 126 | 130 | 130 | 128 | 128 | 126 | 125 | 127 | 122 | 112 | 108 | 91  | 77  | 67  |
| 14               | 68  | 77  | 87  | 99  | 108 | 115 | 119 | 120 | 119 | 118 | 118 | 125 | 129 | 126 | 119 | 103 | 102 | 102 |
| 15               | 104 | 108 | 112 | 113 | 112 | 116 | 119 | 123 | 120 | 117 | 116 | 116 | 118 | 108 | 102 | 102 | 103 | 105 |
| 16 Q             | 102 | 103 | 105 | 108 | 111 | 113 | 115 | 117 | 122 | 122 | 122 | 120 | 117 | 113 | 108 | 104 | 105 | 106 |
| 17 Q             | 99  | 102 | 105 | 105 | 105 | 105 | 106 | 107 | 108 | 107 | 106 | 106 | 106 | 107 | 106 | 105 | 104 | 103 |
| 18               | 97  | 99  | 97  | 96  | 96  | 98  | 102 | 108 | 108 | 105 | 106 | 119 | 142 | 126 | 89  | 110 | 105 | 86  |
| 19               | 93  | 99  | 109 | 113 | 114 | 116 | 119 | 119 | 117 | 114 | 116 | 117 | 116 | 116 | 113 | 113 | 112 | 111 |
| 20               | 108 | 109 | 108 | 111 | 111 | 111 | 110 | 116 | 115 | 114 | 121 | 126 | 123 | 114 | 119 | 102 | 93  | 88  |
| 21 D             | 116 | 124 | 119 | 143 | 143 | 154 | 165 | 205 | 198 | 194 | 215 | 151 | 14  |     |     |     |     |     |

| Время<br>мгн | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1            | 101 | 113 | 119 | 118 | 124 | 128 | 130 | 129 | 132 | 134 | 132 | 130 | 128 | 117 | 111 | 108 | 99  |
| 2            | 109 | 107 | 110 | 119 | 124 | 126 | 123 | 126 | 132 | 140 | 152 | 148 | 138 | 132 | 119 | 117 | 108 |
| 3            | 111 | 108 | 107 | 111 | 119 | 126 | 128 | 126 | 126 | 126 | 126 | 127 | 126 | 124 | 116 | 115 | 104 |
| 4 Q          | 105 | 101 | 105 | 110 | 116 | 119 | 123 | 123 | 122 | 121 | 124 | 125 | 124 | 124 | 123 | 123 | 123 |
| 5            | 102 | 104 | 107 | 111 | 115 | 118 | 122 | 125 | 123 | 123 | 124 | 125 | 125 | 124 | 124 | 123 | 123 |
| 6            | 101 | 93  | 103 | 107 | 113 | 121 | 126 | 130 | 129 | 129 | 129 | 128 | 128 | 118 | 111 | 94  | 89  |
| 7            | 107 | 106 | 108 | 111 | 119 | 126 | 126 | 124 | 126 | 124 | 124 | 126 | 127 | 113 | 109 | 119 | 122 |
| 8            | 115 | 113 | 113 | 115 | 121 | 121 | 123 | 123 | 123 | 122 | 119 | 123 | 123 | 123 | 122 | 107 | 107 |
| 9            | 107 | 107 | 107 | 111 | 117 | 121 | 121 | 121 | 120 | 121 | 118 | 121 | 119 | 117 | 119 | 113 | 113 |
| 10 Q         | 102 | 101 | 105 | 106 | 111 | 118 | 121 | 121 | 121 | 121 | 122 | 120 | 120 | 120 | 115 | 113 | 118 |
| 11           | 102 | 99  | 100 | 109 | 113 | 120 | 123 | 124 | 121 | 121 | 120 | 121 | 123 | 122 | 120 | 113 | 102 |
| 12 D         | 109 | 105 | 104 | 110 | 114 | 119 | 123 | 123 | 120 | 117 | 123 | 123 | 123 | 123 | 121 | 99  | 82  |
| 13           | 56  | 76  | 90  | 95  | 106 | 113 | 121 | 119 | 121 | 122 | 121 | 119 | 111 | 104 | 106 | 95  | 87  |
| 14           | 53  | 64  | 83  | 100 | 109 | 119 | 121 | 123 | 123 | 124 | 124 | 124 | 135 | 129 | 123 | 112 | 113 |
| 15           | 102 | 103 | 105 | 109 | 114 | 123 | 128 | 132 | 128 | 127 | 126 | 127 | 126 | 124 | 110 | 110 | 112 |
| 16 Q         | 97  | 101 | 103 | 110 | 117 | 123 | 127 | 132 | 132 | 133 | 131 | 131 | 128 | 123 | 123 | 117 | 117 |
| 17 Q         | 103 | 103 | 106 | 109 | 112 | 117 | 121 | 123 | 122 | 121 | 121 | 121 | 121 | 122 | 122 | 120 | 119 |
| 18           | 103 | 101 | 100 | 103 | 105 | 112 | 119 | 129 | 130 | 126 | 128 | 142 | 144 | 128 | 82  | 99  | 102 |
| 19           | 85  | 76  | 98  | 105 | 112 | 120 | 126 | 128 | 125 | 124 | 125 | 126 | 126 | 124 | 123 | 123 | 119 |
| 20           | 107 | 106 | 103 | 109 | 113 | 121 | 123 | 130 | 128 | 130 | 137 | 140 | 136 | 123 | 119 | 103 | 92  |
| 21 D         | 60  | 94  | 92  | 123 | 124 | 142 | 157 | 220 | 198 | 179 | 195 | 138 | 138 | 134 | 84  | 30  | 4   |

Ведомство ИЖЦФ

Обсерватория Магадан

Месяц апрель Год 1990

Широта 60°07'  
Долгота 151°01'

Элемент 2/гол склонения

Среднемесячн. D = -13°32.8

$\epsilon_{D_{\text{н}}} = 0.281''$   $D_{0_{\text{н}}} = -15^{\circ}22.6$

Дпр. = -12°00'0 +

$\epsilon_D = 0.462''$   $D_0 = -13^{\circ}49.8 = -12^{\circ}109.8$

| Время<br>мирное | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11   | 12   | 13   | 14   | 15   | 16   | 17    |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1 Q             | 89.1  | 91.5  | 93.9  | 95.3  | 96.9  | 97.7  | 96.0  | 94.4  | 93.0  | 92.8  | 92.2 | 92.0 | 90.4 | 88.8 | 90.2 | 90.2 | 89.7  |
| 2               | 87.9  | 90.0  | 92.6  | 95.7  | 97.2  | 97.2  | 95.7  | 93.8  | 92.5  | 91.6  | 91.6 | 89.0 | 88.2 | 85.0 | 84.0 | 83.0 | 82.8  |
| 3               | 89.2  | 91.5  | 94.0  | 95.7  | 97.2  | 97.1  | 95.7  | 93.4  | 92.7  | 93.0  | 94.4 | 91.2 | 88.3 | 90.0 | 91.3 | 90.6 | 89.7  |
| 4               | 92.6  | 93.8  | 96.2  | 96.7  | 97.2  | 97.3  | 96.0  | 94.0  | 93.0  | 90.8  | 90.2 | 84.7 | 40.2 | 89.7 | 87.3 | 89.1 | 89.8  |
| 5               | 90.9  | 94.4  | 95.4  | 95.9  | 94.9  | 94.4  | 93.2  | 92.3  | 90.9  | 90.6  | 92.0 | 91.6 | 90.9 | 87.6 | 88.1 | 88.8 | 90.1  |
| 6 Q             | 91.6  | 91.8  | 93.5  | 95.8  | 96.8  | 96.9  | 95.9  | 93.5  | 91.6  | 89.8  | 90.6 | 90.9 | 90.1 | 89.4 | 85.7 | 86.4 | 88.3  |
| 7 Q             | 91.6  | 91.3  | 93.2  | 95.8  | 97.4  | 98.1  | 97.2  | 94.8  | 92.1  | 91.8  | 88.3 | 90.6 | 90.2 | 89.6 | 87.4 | 88.4 | 85.0  |
| 8 Q             | 89.7  | 91.6  | 92.7  | 95.3  | 97.2  | 97.2  | 96.2  | 94.2  | 92.6  | 91.6  | 90.7 | 90.9 | 90.2 | 89.8 | 88.8 | 88.1 | 89.3  |
| 9               | 87.8  | 88.9  | 92.1  | 94.6  | 97.8  | 98.6  | 97.4  | 95.8  | 91.6  | 89.6  | 90.1 | 90.9 | 91.5 | 92.1 | 88.0 | 86.6 | 87.4  |
| 10 D            | 92.3  | 96.3  | 97.0  | 97.6  | 99.8  | 98.5  | 99.3  | 100.4 | 86.9  | 103.7 | <    | <    | <    | <    | <    | <    | <     |
| 11 D            | 108.2 | 110.4 | 107.1 | 104.4 | 106.7 | 107.0 | 91.1  | 97.2  | 100.6 | 86.4  | 94.1 | 89.7 | 44.9 | 91.1 | 89.9 | 95.8 | 100.6 |
| 12 D            | 94.4  | 100.3 | 99.6  | 98.9  | 104.3 | 107.3 | 114.9 | 108.3 | 102.8 | 86.9  | 97.4 | 98.1 | 68.7 | 96.0 | 96.8 | 92.0 | 94.8  |
| 13              | 95.4  | 100.6 | 101.1 | 102.0 | 107.8 | 107.9 | 107.2 | 90.3  | 93.8  | 96.2  | 92.7 | 94.2 | 91.3 | 98.9 | 91.7 | 91.6 | 92.1  |
| 14 D            | 94.4  | 100.0 | 100.4 | 102.8 | 103.8 | 101.8 | 99.1  | 89.2  | 95.3  | 96.3  | 90.7 | 88.3 | 92.0 | 95.5 | 91.5 | 92.5 | 87.7  |
| 15              | 95.8  | 96.7  | 100.3 | 101.4 | 106.0 | 106.0 | 99.2  | 97.7  | 96.1  | 89.6  | 89.3 | 92.3 | 96.0 | 90.2 | 90.2 | 90.1 | 92.2  |
| 16              | 92.1  | 94.9  | 98.3  | 101.4 | 101.4 | 99.0  | 98.6  | 95.9  | 90.7  | 92.5  | 85.9 | 90.3 | 92.1 | 93.3 | 92.6 | 89.7 | 90.7  |
| 17 D            | 93.9  | 94.8  | 96.8  | 99.4  | 100.3 | 101.9 | 98.6  | 97.8  | 90.1  | 97.5  | 96.2 | 96.1 | 89.9 | 89.3 | 92.4 | 87.7 | 86.5  |
| 18              | 90.1  | 104.5 | 103.4 | 102.3 | 107.8 | 101.5 | 44.2  | 97.2  | 94.6  | 88.7  | 98.0 | 93.3 | 89.3 | 88.6 | 91.1 | 90.8 | 90.2  |
| 19 Q            |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |

Ведомство ИЖЦФ

Среднемесячн.  $H = 17708$

Обсерватория Магадан

Элемент Горизонтальная состав.

$E_{H_0} = 2.68^\circ/\text{мм}$   $H_0 = 17687$

Месяц апрель Год 1990

$H_{\text{пр.}} = 17600 +$

$E_H = 1.94^\circ/\text{мм}$   $H_0 = 17691$

| Время<br>мирзое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q             | 83  | 77  | 23  | 95  | 105 | 114 | 125 | 131 | 134 | 132 | 132 | 134 | 134 | 130 | 126 | 127 | 122 |
| 2               | 99  | 92  | 93  | 103 | 120 | 137 | 155 | 152 | 153 | 147 | 145 | 144 | 145 | 151 | 139 | 125 | 129 |
| 3               | 111 | 108 | 109 | 117 | 135 | 139 | 137 | 143 | 157 | 151 | 156 | 153 | 125 | 118 | 130 | 136 | 131 |
| 4               | 103 | 93  | 93  | 102 | 111 | 122 | 131 | 136 | 137 | 136 | 138 | 135 | 137 | 143 | 152 | 138 | 144 |
| 5               | 105 | 111 | 122 | 131 | 140 | 144 | 141 | 136 | 125 | 119 | 131 | 141 | 142 | 134 | 130 | 122 | 132 |
| 6 Q             | 102 | 95  | 95  | 105 | 116 | 126 | 137 | 147 | 145 | 140 | 134 | 144 | 147 | 147 | 145 | 141 | 140 |
| 7 Q             | 122 | 108 | 101 | 103 | 120 | 126 | 137 | 139 | 151 | 145 | 139 | 147 | 147 | 151 | 146 | 155 | 137 |
| 8 Q             | 113 | 105 | 103 | 107 | 110 | 128 | 139 | 147 | 148 | 149 | 150 | 148 | 151 | 146 | 146 | 147 | 148 |
| 9               | 116 | 101 | 95  | 103 | 114 | 136 | 147 | 141 | 148 | 128 | 108 | 100 | 120 | 136 | 154 | 158 | 148 |
| 10 D            | 110 | 101 | 98  | 104 | 107 | 113 | 149 | 156 | 139 | 158 | <   | <   | <   | <   | <   | <   | <   |
| 11 D            | -12 | -12 | 17  | 52  | 87  | 104 | 153 | 127 | 103 | 81  | 95  | 128 | 81  | 84  | 79  | 70  | 41  |
| 12 D            | 56  | 49  | 54  | 32  | 78  | 153 | 29  | 31  | 11  | 76  | 77  | 93  | 83  | 83  | 85  | 91  | 89  |
| 13              | 47  | 29  | 49  | 69  | 73  | 116 | 115 | 146 | 128 | 86  | 111 | 116 | 82  | 97  | 101 | 105 | 92  |
| 14 D            | 33  | 27  | 45  | 56  | 74  | 110 | 140 | 145 | 117 | 115 | 111 | 93  | 87  | 98  | 83  | 93  | 57  |
| 15              | 27  | 33  | 29  | 50  | 68  | 92  | 134 | 123 | 132 | 124 | 115 | 125 | 125 | 102 | 96  | 97  | 103 |
| 16              | 48  | 54  | 61  | 70  | 83  | 106 | 130 | 139 | 128 | 127 | 126 | 128 | 131 | 124 | 122 | 118 | 115 |
| 17 D            | 68  | 74  | 69  | 75  | 94  | 117 | 123 | 184 | 207 | 210 | 128 | 134 | 134 | 60  | 75  | 80  | 56  |
| 18              | 29  | 29  | 43  | 71  | 80  | 95  | 110 | 116 | 122 | 120 | 123 | 125 | 125 | 113 | 117 | 116 | 110 |
| 19 Q            | 84  | 85  | 85  | 93  | 108 | 120 | 127 | 130 | 136 | 133 | 139 | 137 | 141 | 137 | 132 | 128 | 129 |
| 20              | 71  | 65  | 78  | 87  | 104 | 128 | 131 | 130 | 138 | 141 | 138 | 144 | 139 | 135 | 132 | 136 | 129 |
| 21              | 19  | 60  | 72  | 69  | 75  | 84  | 116 | 134 | 133 | 125 | 129 | 125 | 128 | 131 | 128 | 125 | 116 |
| 22              | 79  | 72  | 68  | 75  | 93  | 105 | 121 | 133 | 134 | 137 | 134 | 142 | 140 | 130 | 126 | 120 | 123 |
| 23              | 99  | 68  | 54  | 79  | 89  | 116 | 81  |     |     |     |     |     |     |     |     |     |     |

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 116 | 119 | 122 | 123 | 120 | 118 | 119 | 123 | 124 | 123 | 122 | 121 | 121 | 121 | 118 | 118 | 118 |
| 2                | 111 | 112 | 112 | 111 | 109 | 109 | 111 | 115 | 116 | 116 | 116 | 118 | 118 | 117 | 109 | 111 | 114 |
| 3                | 109 | 106 | 107 | 107 | 107 | 111 | 113 | 115 | 118 | 123 | 129 | 132 | 102 | 118 | 124 | 121 | 92  |
| 4                | 115 | 112 | 112 | 113 | 116 | 121 | 123 | 123 | 124 | 123 | 121 | 119 | 119 | 118 | 119 | 114 | 119 |
| 5                | 109 | 112 | 110 | 112 | 112 | 115 | 119 | 123 | 123 | 126 | 124 | 117 | 115 | 114 | 110 | 109 | 112 |
| 6                | 107 | 109 | 109 | 109 | 109 | 112 | 117 | 118 | 116 | 116 | 118 | 118 | 115 | 114 | 112 | 107 | 108 |
| 7                | 110 | 107 | 105 | 104 | 105 | 107 | 113 | 115 | 117 | 116 | 115 | 115 | 113 | 112 | 110 | 103 | 92  |
| 8                | 105 | 107 | 109 | 105 | 104 | 109 | 113 | 116 | 114 | 112 | 111 | 110 | 110 | 112 | 111 | 109 | 110 |
| 9                | 99  | 100 | 101 | 101 | 101 | 104 | 115 | 122 | 128 | 145 | 162 | 141 | 148 | 134 | 123 | 95  | 93  |
| 10               | 114 | 119 | 123 | 129 | 132 | 143 | 163 | 201 | 278 | <   | <   | <   | <   | <   | <   | <   | <   |
| 11               | 136 | 149 | 167 | 187 | 184 | 188 | 228 | 203 | 197 | 202 | 198 | 149 | 123 | 118 | 84  | 90  | 20  |
| 12               | 134 | 138 | 140 | 145 | 160 | 159 | 269 | 298 | 309 | 233 | 175 | 158 | 136 | 145 | 137 | 127 | 114 |
| 13               | 115 | 128 | 134 | 138 | 144 | 160 | 177 | 212 | 195 | 170 | 162 | 135 | 140 | 116 | 126 | 129 | 126 |
| 14               | 111 | 126 | 133 | 137 | 142 | 147 | 160 | 193 | 218 | 203 | 177 | 147 | 152 | 130 | 104 | 86  | 48  |
| 15               | 120 | 132 | 135 | 143 | 146 | 146 | 159 | 151 | 150 | 154 | 150 | 143 | 126 | 118 | 120 | 116 | 120 |
| 16               | 117 | 118 | 119 | 123 | 126 | 126 | 130 | 139 | 146 | 148 | 143 | 132 | 132 | 130 | 121 | 122 | 122 |
| 17               | 117 | 118 | 117 | 118 | 121 | 127 | 126 | 135 | 143 | 244 | 234 | 199 | 220 | 180 | 175 | 154 | 146 |
| 18               | 101 | 110 | 121 | 129 | 155 | 149 | 143 | 145 | 146 | 151 | 141 | 136 | 140 | 140 | 135 | 130 | 128 |
| 19               | 109 | 114 | 118 | 119 | 121 | 123 | 123 | 125 | 129 | 127 | 127 | 127 | 127 | 127 | 126 | 123 | 115 |
| 20               | 110 | 113 | 115 | 112 | 111 | 115 | 123 | 130 | 129 | 127 | 126 | 126 | 126 | 125 | 126 | 123 | 104 |
| 21               | 90  | 109 | 111 | 113 | 121 | 120 | 121 | 130 | 135 | 133 | 129 | 126 | 125 | 125 | 124 | 123 | 123 |
| 22               | 118 | 118 | 116 | 116 | 118 | 123 | 122 | 127 | 136 | 136 | 132 | 127 | 126 | 123 | 118 | 118 | 1   |

Ведомство ИЖИФ

Среднемесячн.  $\overline{T} = 55521$

Обсерватория Магадан

Элемент Болная сила

$$E_{\overline{T}} = 3.21/\text{мм} \quad T_{0.0} = 55772'$$

Месяц апрель Год 1990

$$\overline{T} = 55400 +$$

$$E_{\overline{T}} = 1.96/\text{мм} \quad T_{0.0} = 55472'$$

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q              | 106 | 107 | 111 | 115 | 117 | 119 | 125 | 129 | 132 | 129 | 129 | 128 | 129 | 128 | 125 | 124 | 125 |
| 2                | 107 | 105 | 105 | 108 | 113 | 117 | 126 | 129 | 131 | 129 | 129 | 129 | 131 | 131 | 119 | 117 | 121 |
| 3                | 109 | 105 | 106 | 109 | 115 | 121 | 122 | 126 | 135 | 135 | 143 | 146 | 107 | 121 | 130 | 129 |     |

Ведомство ЦЖЦФ

Среднемесячн.

 $\odot = -13^{\circ}31.5$ Обсерватория МагаданЭлемент Угол склоненияМесяц Май Год 1990Широта  $60^{\circ}07'$   
Долгота  $151^{\circ}01'$  $\odot_{\text{пр}} = -12^{\circ}00.0$  + $\varepsilon_{\text{пр}} = 0.284 / \text{в.м.}$   
 $\varepsilon_{\text{д}} = 0.471 / \text{ч.м.}$  $\odot_{\text{пр}} = -13^{\circ}22.5 = -12^{\circ}22.5$   
 $\odot = -13^{\circ}49.8 = -12^{\circ}09.8$ 

| Время<br>мирное | 1    | 2    | 3     | 4     | 5     | 6     | 7     | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |
|-----------------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1               | 92.3 | 94.3 | 97.2  | 98.5  | 99.1  | 98.0  | 95.6  | 93.7 | 91.5 | 91.8 | 92.0 | 91.8 | 90.2 | 88.2 | 89.2 | 89.0 | 88.7 |
| 2               | 91.9 | 94.3 | 95.7  | 96.0  | 96.1  | 95.6  | 94.8  | 93.9 | 92.9 | 91.0 | 89.1 | 90.1 | 86.6 | 89.7 | 90.1 | 89.7 | 89.0 |
| 3               | 91.5 | 93.4 | 94.3  | 94.7  | 95.3  | 96.5  | 96.2  | 93.9 | 92.0 | 90.0 | 90.3 | 91.7 | 88.0 | 90.7 | 90.1 | 90.2 | 89.2 |
| 4               | 97.9 | 96.5 | 94.3  | 95.7  | 95.6  | 95.2  | 93.9  | 92.4 | 92.0 | 91.2 | 90.9 | 87.7 | 89.2 | 90.2 | 89.7 | 89.6 | 89.3 |
| 5               | 94.3 | 94.8 | 94.3  | 94.3  | 95.0  | 95.3  | 94.8  | 92.7 | 90.2 | 92.4 | 86.8 | 92.4 | 91.5 | 90.9 | 90.5 | 90.2 | 89.0 |
| 6 Q             | 92.9 | 94.2 | 94.6  | 94.7  | 95.1  | 96.5  | 96.3  | 94.7 | 92.3 | 90.8 | 90.1 | 90.6 | 90.7 | 90.5 | 89.9 | 89.2 | 88.0 |
| 7               | 92.4 | 94.7 | 96.4  | 96.5  | 96.5  | 96.7  | 95.1  | 92.6 | 91.4 | 89.3 | 87.7 | 89.6 | 89.5 | 90.1 | 90.0 | 87.7 | 88.7 |
| 8               | 90.6 | 92.7 | 94.0  | 95.1  | 97.0  | 98.2  | 96.0  | 94.2 | 91.6 | 90.1 | 89.3 | 89.6 | 89.1 | 89.4 | 89.4 | 87.7 | 87.1 |
| 9               | 97.5 | 99.3 | 99.5  | 100.8 | 99.7  | 98.4  | 95.7  | 96.5 | 95.5 | 90.0 | 89.6 | 90.3 | 84.7 | 90.4 | 89.0 | 88.6 | 90.2 |
| 10 D            | 95.9 | 98.4 | 102.8 | 104.3 | 103.9 | 100.9 | 102.7 | 99.6 | 96.4 | 94.8 | 87.9 | 91.2 | 92.6 | 90.6 | 90.5 | 90.0 | 91.3 |
| 11              | 88.7 | 96.0 | 99.5  | 99.5  | 100.6 | 100.9 | 99.0  | 94.0 | 94.7 | 93.8 | 94.0 | 93.3 | 93.7 | 91.2 | 93.8 | 91.4 | 91.2 |
| 12              | 94.8 | 97.5 | 100.2 | 101.2 | 101.5 | 101.2 | 97.6  | 94.2 | 91.8 | 90.9 | 90.1 | 90.9 | 91.5 | 92.0 | 92.4 | 92.4 | 91.7 |
| 13              | 91.2 | 94.5 | 96.2  | 97.1  | 97.9  | 97.6  | 95.4  | 93.4 | 91.8 | 91.2 | 91.3 | 91.4 | 91.2 | 91.0 | 90.5 | 91.0 | 89.1 |
| 14 Q            | 91.5 | 93.8 | 96.7  | 99.0  | 99.0  | 97.5  | 95.1  | 93.0 | 91.4 | 90.6 | 90.5 | 90.5 | 90.1 | 90.2 | 90.0 | 89.6 | 88.3 |
| 15 Q            | 85.8 | 89.6 | 93.7  | 96.7  | 98.6  | 98.4  | 95.6  | 92.2 | 91.0 | 90.5 | 90.1 | 89.6 | 90.1 | 89.6 | 89.6 | 89.2 | 88.5 |
| 16 Q            | 90.5 | 92.7 | 94.2  | 96.2  | 97.8  | 97.5  | 96.3  | 94.8 | 93.0 | 91.8 | 91.0 | 90.3 | 89.6 | 88.9 | 88.3 | 87.6 | 86.5 |
| 17 Q            | 89.6 | 91.8 | 92.4  | 93.6  | 95.3  | 95.9  | 94.7  | 94.3 | 92.5 | 91.4 | 90.8 | 90.4 | 89.9 | 90.0 | 89.5 | 87.8 | 87.0 |
| 18 D            | 88.8 | 94.3 | 95.8  | 97.7  | 97.8  | 97.3  | 96.0  | 94.3 | 94.5 | 93.6 | 96.8 | 94.8 | 93.1 | 90.4 | 91.0 | 85.1 | 7    |

Ведомство ЦЖСОбсерватория МолдавияМесяц май Год 1990Среднемесячн.  $H = 17724$  $E_{HIII} = 2.66^\circ_{\text{см}}$   $H_{0III} = 17687^\circ$ Элемент Горизонтальная состав. $H = 17600 +$  $E_H = 1.94^\circ_{\text{см}}$   $H_0 = 17691^\circ$ 

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 97  | 91  | 87  | 92  | 108 | 110 | 133 | 143 | 136 | 137 | 140 | 136 | 138 | 134 | 141 | 135 | 134 |
| 2                | 105 | 98  | 98  | 108 | 121 | 126 | 141 | 138 | 149 | 151 | 148 | 128 | 147 | 134 | 136 | 136 | 133 |
| 3                | 106 | 100 | 103 | 112 | 126 | 127 | 118 | 135 | 141 | 138 | 122 | 132 | 137 | 123 | 142 | 142 | 134 |
| 4                | 112 | 111 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Ведомство ИЖИ

Среднемесячн.  $Z = 52614$

Обсерватория Мозгак

Элемент Вертикальная состав.

$E_{2.11} = 310^{\circ}_{\text{м.в.}}$   $Z_{0.11} = 52976$

Месяц май Год 1990

$Z = 52500 +$

$E_z = 1.55^{\circ}_{\text{м.в.}}$   $Z_0 = 52557$

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 106 | 101 | 103 | 111 | 117 | 123 | 123 | 125 | 125 | 125 | 125 | 124 | 123 | 122 | 121 | 120 | 120 |
| 2                | 108 | 105 | 103 | 109 | 114 | 117 | 120 | 122 | 120 | 120 | 126 | 131 | 114 | 108 | 117 | 118 | 119 |
| 3                | 108 | 109 | 110 | 112 | 113 | 117 | 119 | 117 | 119 | 122 | 132 | 131 | 123 | 121 | 123 | 120 | 117 |
| 4                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Ведомство ЦЖСРОбсерватория МолдаваСреднемесячн.  $\overline{T} = 55520$  $E_{\overline{T}} = 3.23 \text{ } \mu\text{m}$   $T_{0.1} = 55773$ Месяц май Год 1990Элемент Солнная сила $T_{пр.} = 55400 +$  $E_{\overline{T}} = 1.96 \text{ } \mu\text{m}$   $\overline{T} = 55471$ 

| Время<br>мирное | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1               | 103 | 97  | 97  | 105 | 118 | 123 | 132 | 137 | 135 | 135 | 136 | 134 | 134 | 132 | 132 | 130 | 129 |
| 2               | 107 | 102 | 101 | 110 | 118 | 123 | 131 | 131 | 135 | 135 | 139 | 138 | 127 | 117 | 127 | 129 | 127 |
| 3               | 107 | 107 | 109 | 113 | 119 | 125 | 122 | 128 | 131 | 133 | 137 | 139 | 134 | 125 |     |     |     |

Ведомство ЦЖИР

Среднемесячн.

 $D = -13^{\circ} 51.5$ Обсерватория МозаганШирота  $60^{\circ} 07'$ 

Элемент

Угол склоненияМесяц июнь

Год

1990Долгота  $151^{\circ} 01'$  $D_{np} = -12^{\circ} 00' 0''$  $\Sigma D = 0.470 / \text{мм}$   $D_0 = -13^{\circ} 49.8 = -12^{\circ} 109.8$ 

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 894 | 931 | 961 | 966 | 992 | 970 | 935 | 913 | 922 | 916 | 917 | 911 | 910 | 913 | 913 | 908 | 899 | 880 |
| 2                | 915 | 971 | 988 | 987 | 978 | 959 | 938 | 921 | 917 | 899 | 893 | 913 | 917 | 915 | 910 |     |     |     |

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 101 | 100 | 104 | 119 | 123 | 143 | 151 | 160 | 151 | 147 | 145 | 149 | 147 | 147 | 140 | 143 | 141 |
| 2                | 96  | 102 | 107 | 115 | 123 | 140 | 149 | 147 | 147 | 153 | 150 | 143 | 145 | 143 | 141 | 143 | 139 |
| 3                | 106 | 102 | 108 | 120 | 128 | 137 | 147 | 150 | 151 | 149 | 141 | 145 | 153 | 151 | 147 | 142 | 143 |
| 4                | 104 | 110 | 119 | 131 | 143 | 162 | 151 | 142 | 148 | 145 | 151 | 147 |     |     |     |     |     |

| Время<br>мирное | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|-----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1               | 95 | 98  | 103 | 106 | 110 | 115 | 123 | 132 | 131 | 130 | 122 | 117 | 117 | 117 | 114 | 114 | 114 |
| 2               | 97 | 106 | 108 | 109 | 118 | 127 | 126 | 125 | 123 | 120 | 120 | 118 | 116 | 114 | 114 | 114 | 114 |
| 3               | 98 | 97  | 104 | 107 | 111 | 112 | 117 | 118 | 114 | 115 | 114 | 114 | 113 | 114 | 112 | 114 | 114 |
| 4               | 94 | 94  | 97  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| Время<br>мировое | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 94 | 97  | 101 | 110 | 115 | 128 | 139 | 150 | 145 | 143 | 135 | 132 | 131 | 131 | 125 | 127 | 126 |
| 2                | 94 | 104 | 107 | 113 | 123 | 137 | 139 | 139 | 137 | 136 | 135 | 131 | 129 | 127 | 126 | 127 | 126 |
| 3                | 97 | 96  | 105 | 111 | 117 | 121 | 129 | 133 | 129 | 129 | 125 | 126 | 128 | 128 | 125 | 125 | 127 |
| 4                | 94 | 96  | 101 | 107 | 111 | 127 | 127 |     |     |     |     |     |     |     |     |     |     |

| Время<br>мировое | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22 | 23 | Средн.<br>суточн. | Время<br>тах | Max<br>тум | Mini<br>тум | Время<br>minim | Ампл | Сумма |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|-------------------|--------------|------------|-------------|----------------|------|-------|
| 1 Q              | 91.6 | 96.7 | 98.5 | 99.4 | 98.7 | 96.6 | 94.9 | 92.2 | 90.0 | 88.3 | 90.5 | 91.3 | 91.5 | 91.5 | 91.2 | 89.9 | 88.3 | 86.3 | 88.2 | 81.9 |    |    |                   |              |            |             |                |      |       |

| Время<br>мирное | 1  | 2  | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|-----------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q             | 84 | 93 | 108 | 125 | 139 | 150 | 160 | 150 | 151 | 144 | 143 | 148 | 149 | 146 | 147 | 142 | 140 | 142 |
| 2               | 88 | 98 | 104 | 117 | 139 | 157 | 164 | 160 | 142 | 140 | 140 | 140 | 141 | 144 | 149 | 140 | 138 | 136 |

| Время<br>мирское | 1   | 2  | 3  | 4    | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|----|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q              | 98  | 97 | 94 | 94   | 100 | 103 | 107 | 111 | 117 | 116 | 114 | 112 | 109 | 109 | 111 | 109 | 111 |
| 2                | 85  | 86 | 86 | 95   | 103 | 119 | 125 | 126 | 125 | 117 | 109 | 108 | 107 | 108 | 108 | 109 | 106 |
| 3                | 100 | 98 | 98 | 101  | 104 | 108 | 109 | 111 | 111 | 112 | 111 | 108 | 109 | 109 | 108 | 108 | 109 |
| 4                | 87  | 84 | 86 | 86</ |     |     |     |     |     |     |     |     |     |     |     |     |     |

| Время<br>мирное | 1  | 2  | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|-----------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q             | 92 | 92 | 95 | 101 | 111 | 118 | 125 | 127 | 131 | 129 | 127 | 125 | 124 | 125 | 123 | 123 | 123 |
| 2               | 80 | 84 | 86 | 99  | 115 | 135 | 144 | 143 | 136 | 128 | 121 | 119 | 119 | 120 | 123 | 120 | 121 |
| 3               | 95 | 95 | 97 | 107 | 116 | 120 | 117 |     |     |     |     |     |     |     |     |     |     |

Ведомство ИЖИФСреднемесячн.  $D = -13^{\circ}32.5$ Обсерватория ИркутскЭлемент Угол склоненияМесяц Август Год 1990Широта  $60^{\circ}01'$   
Долгота  $151^{\circ}01'$  $D = -12^{\circ}00.0$  $\varepsilon_D = 0.470$   $D = -13^{\circ}49.9$ 

| Время<br>мировое | 1    | 2     | 3     | 4     | 5     | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13     | 14   | 15   | 16   | 17   |      |
|------------------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|--------|------|------|------|------|------|
| 1                | 94.4 | 98.2  | 100.1 | 99.9  | 98.3  | 96.7 | 95.1 | 93.0 | 94.2 | 94.7 | 92.1 | 93.7 | 91.3   | 94.2 | 89.0 | 88.3 | 90.0 | 87.5 |
| 2                | 98.3 | 102.4 | 104.7 | 106.4 | 104.0 | 99.9 | 96.7 | 93.4 | 91.1 | 91.7 | 92.3 | 92.8 | 93.0   | 91.7 | 92.8 | 91.8 | 90.9 | 90.0 |
| 3                | 93.6 | 98.0  | 99.8  | 99.8  | 101.1 | 99.8 | 97.4 | 94.2 | 91.4 | 89.9 | 91.6 | 88.7 | 93.2</ |      |      |      |      |      |

| Время<br>мировое | 1  | 2  | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 70 | 71 | 84  | 98  | 115 | 125 | 135 | 146 | 158 | 139 | 144 | 144 | 167 | 142 | 112 | 104 | 119 | 111 |
| 2                | 46 | 56 | 71  | 76  | 102 | 109 | 125 | 111 | 116 | 121 | 123 | 117 | 117 | 115 | 111 | 109 | 109 | 114 |
| 3                | 86 | 94 | 108 | 109 | 113 | 115 | 123 | 112 | 123 | 140 | 135 | 131 | 114 | 127 | 111 | 108 | 113 | 111 |
| 4                | 48 | 66 | 87  | 102 | 119 | 130 | 135 | 137 | 133 | 13  |     |     |     |     |     |     |     |     |

Ведомство ИЖИРОбсерватория Мозгак

Среднемесячн.

 $Z = 52618$ Элемент Вертикальная сост $Z = 52500$  $\epsilon_z = 1.54^\circ$   
 $Z_0 = 52557$ Месяц август Год 1990

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                | 103 | 101 | 112 | 120 | 123 | 121 | 123 | 122 | 126 | 117 | 115 | 113 | 117 | 123 | 115 | 118 | 120 | 123 |
| 2                | 101 | 108 | 116 | 126 | 126 | 129 | 133 | 129 | 127 | 125 | 121 | 120 | 119 | 119 | 118 | 118 | 118 | 118 |
| 3                | 111 | 115 | 113 | 103 | 106 | 114 | 121 | 128 | 127 | 132 | 134 | 125 | 120 | 120 | 117 | 120 | 120 | 118 |
| 4                | 100 | 104 | 106 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |









Ведомство ИЖИРОбсерватория Мозаган

Среднемесячн.

 $T = 55512$ Элемент Южная сила $T = 55400$  $\Sigma \tau = 1.95$   $T_0 = 55471$  с 1 по 3/ix  
 $\Sigma \tau = 1.96$   $T_0 = 55476$  с 4/ix - 902Месяц Сентябрь год 1990

| Время<br>мирное | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 D             | 95  | 97  | 104 | 112 | 122 | 128 | 130 | 126 | 126 | 124 | 131 | 135 | 114 | 103 | 117 | 124 | 121 | 106 |
| 2 Q             | 105 | 112 | 116 | 118 | 122 | 127 | 127 | 122 | 119 | 119 | 119 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| 3 Q             | 115 | 121 | 123 | 123 | 125 | 129 | 129 | 125 | 123 | 121 | 120 | 123 | 122 | 121 | 120 | 120 | 119 | 120 |
| 4</             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |





Ведомство ИЖИФ

Среднемесячн.

Z = 52611Обсерватория МозаганЭлемент Вертикальная составляющаяМесяц Октябрь Год 1990Z = 52500Σz = 155 Z<sub>0</sub> = 52581

| Время<br>мировое | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 Q              | 99  | 99  | 96  | 97  | 103 | 105 | 107 | 108 | 108 | 107 | 107 | 107 | 106 | 105 | 105 | 105 | 105 |
| 2 Q              | 102 | 103 | 104 | 105 | 105 | 104 | 104 | 105 | 106 | 107 | 110 | 108 | 107 | 110 | 108 | 107 | 106 |
| 3                | 97  | 101 | 100 | 101 | 101 | 101 | 104 | 105 | 105 | 105 | 106 | 107 | 106 | 104 | 104 | 104 | 104 |
| 4                | 106 | 104 | 101 | 102 | 104 | 108 | 109 | 10  |     |     |     |     |     |     |     |     |     |

















