

Ведомство Министерство Высшего Образования  
 Обсерватория Казанская (Займище) Широта  $55^{\circ}50'N$  Долгота  $48^{\circ}51'E$

Месяц Январь Год 1963

Элемент Склонение  
 $D = 10^{\circ} + = 10^{\circ}23.4'$

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |
| 1                          | 24.4 | 24.0 | 23.7 | 23.7 | 23.9 | 23.9 | 23.5 | 22.7 | 22.3 | 21.3 | 20.7 | 22.2 | 22.5 | 22.9 | 23.3 | 23.3 | 25.0 | 24.6 | 25.4 | 25.4 | 24.4 | 24.4 | 23.5              | 23.6 |
| 2                          | 23.4 | 23.3 | 23.3 | 23.0 | 23.2 | 23.1 | 22.9 | 23.0 | 22.6 | 21.8 | 21.6 | 22.1 | 22.7 | 22.8 | 22.7 | 22.5 | 22.5 | 24.2 | 23.0 | 22.9 | 23.0 | 22.8 | 22.8              | 22.8 |
| 3                          | 22.7 | 22.4 | 21.8 | 21.6 | 21.7 | 22.0 | 21.2 | 21.2 | 21.1 | 20.0 | 20.7 | 21.4 | 22.4 | 22.5 | 22.7 | 22.7 | 23.2 | 23.1 | 23.4 | 23.3 | 23.4 | 23.2 | 23.2              | 22.3 |
| 4                          | 22.4 | 21.9 | 21.8 | 21.7 | 21.9 | 22.2 | 21.9 | 21.9 | 21.8 | 21.3 | 20.8 | 20.9 | 21.3 | 21.7 | 23.6 | 27.4 | 26.7 | 27.4 | 28.3 | 27.6 | 25.5 | 23.9 | 24.0              | 23.4 |
| 5                          | 22.4 | 22.3 | 22.4 | 22.6 | 23.4 | 23.8 | 23.9 | 23.4 | 23.4 | 21.7 | 21.1 | 20.9 | 22.3 | 22.3 | 23.1 | 23.7 | 24.7 | 24.9 | 24.2 | 23.9 | 23.5 | 23.0 | 22.2              | 22.5 |
| 6                          | 22.5 | 22.8 | 22.6 | 22.9 | 23.4 | 23.9 | 24.0 | 23.5 | 22.7 | 21.8 | 21.3 | 21.7 | 21.9 | 22.3 | 22.3 | 22.3 | 22.6 | 22.6 | 22.8 | 22.9 | 22.9 | 22.7 | 22.0              | 21.5 |
| 7                          | 21.5 | 20.2 | 20.3 | 21.3 | 21.8 | 22.7 | 22.6 | 22.5 | 21.8 | 20.8 | 20.9 | 22.0 | 22.0 | 21.8 | 22.0 | 21.9 | 23.7 | 30.1 | 26.2 | 24.9 | 24.3 | 23.9 | 23.8              | 22.8 |
| 8                          | 22.9 | 22.4 | 22.1 | 22.6 | 23.5 | 24.0 | 24.5 | 24.2 | 22.9 | 21.6 | 20.9 | 21.7 | 22.4 | 22.5 | 22.7 | 22.7 | 22.8 | 23.3 | 23.7 | 24.0 | 23.7 | 23.5 | 23.4              | 23.0 |
| 9                          | 22.6 | 22.3 | 21.9 | 22.4 | 22.5 | 23.2 | 23.0 | 22.9 | 22.5 | 21.5 | 20.8 | 21.0 | 21.4 | 22.0 | 22.0 | 22.3 | 22.6 | 22.9 | 23.3 | 23.3 | 23.0 | 23.0 | 22.8              | 22.4 |
| 10                         | 21.8 | 21.8 | 22.0 | 22.1 | 22.1 | 22.1 | 22.4 | 22.3 | 21.7 | 21.2 | 21.0 | 21.1 | 21.7 | 21.8 | 22.0 | 22.1 | 22.7 | 23.1 | 23.3 | 23.4 | 23.1 | 22.8 | 22.7              | 22.2 |
| 11                         | 21.9 | 22.0 | 21.7 | 21.6 | 22.0 | 22.5 | 22.9 | 22.1 | 21.1 | 20.1 | 19.5 | 20.0 | 20.1 | 20.0 | 20.0 | 20.9 | 21.0 | 23.2 | 30.7 | 32.5 | 26.9 | 25.2 | 25.0              | 22.8 |
| 12                         | 23.2 | 22.5 | 22.4 | 22.7 | 22.5 | 22.9 | 23.1 | 22.3 | 21.8 | 21.5 | 21.1 | 21.5 | 21.9 | 22.0 | 22.4 | 22.2 | 22.4 | 22.7 | 23.6 | 23.8 | 24.0 | 23.8 | 24.1              | 22.6 |
| 13                         | 23.2 | 20.7 | 19.6 | 16.8 | 12.0 | 17.2 | 21.5 | 20.3 | 21.3 | 20.8 | 22.2 | 28.8 | 21.4 | 24.2 | 28.3 | 29.5 | 24.2 | 34.3 | 30.0 | 27.0 | 25.4 | 23.7 | 22.4              | 23.0 |
| 14                         | 22.3 | 20.5 | 20.4 | 20.7 | 19.1 | 21.5 | 22.8 | 24.2 | 23.6 | 25.5 | 25.8 | 29.3 | 23.0 | 24.2 | 30.4 | 30.1 | 30.7 | 28.9 | 30.4 | 28.4 | 28.0 | 27.6 | 22.8              | 25.1 |
| 15                         | 18.5 | 20.2 | 22.3 | 21.4 | 20.1 | 20.3 | 23.2 | 22.5 | 23.5 | 26.1 | 22.5 | 26.2 | 25.3 | 26.7 | 30.0 | 24.7 | 25.8 | 26.5 | 26.5 | 27.3 | 22.8 | 23.7 | 23.3              | 23.9 |
| 16                         | 20.5 | 14.8 | 21.4 | 23.9 | 23.5 | 23.3 | 23.4 | 22.7 | 23.1 | 19.8 | 21.0 | 23.5 | 26.7 | 24.4 | 32.9 | 34.4 | 27.8 | 24.9 | 24.0 | 25.8 | 24.6 | 28.3 | 25.5              | 24.2 |
| 17                         | 22.4 | 23.7 | 23.7 | 22.7 | 22.5 | 25.4 | 24.0 | 23.3 | 25.9 | 23.0 | 23.0 | 24.5 | 24.1 | 26.4 | 26.4 | 23.9 | 26.5 | 33.7 | 25.8 | 25.4 | 23.9 | 24.3 | 20.8              | 24.5 |
| 18                         | 23.1 | 21.2 | 20.8 | 21.9 | 21.1 | 21.6 | 22.3 | 23.3 | 23.9 | 23.0 | 23.0 | 23.0 | 23.4 | 25.1 | 26.6 | 23.2 | 26.6 | 26.5 | 25.8 | 23.1 | 23.4 | 24.4 | 22.7              | 23.3 |
| 19                         | 20.6 | 21.7 | 23.4 | 23.3 | 23.8 | 24.5 | 24.9 | 25.6 | 25.3 | 25.5 | 22.8 | 22.5 | 22.6 | 24.9 | 33.3 | 27.1 | 26.5 | 27.5 | 28.8 | 27.8 | 27.8 | 25.4 | 23.9              | 25.2 |
| 20                         | 24.7 | 22.8 | 23.4 | 23.0 | 23.9 | 24.0 | 24.0 | 23.5 | 22.7 | 20.4 | 21.6 | 22.9 | 22.7 | 24.0 | 25.7 | 24.1 | 23.2 | 23.3 | 23.5 | 24.0 | 25.0 | 24.5 | 23.7              | 23.5 |
| 21                         | 23.7 | 23.3 | 23.3 | 23.3 | 23.4 | 24.0 | 23.8 | 23.1 | 21.7 | 20.7 | 21.0 | 22.3 | 22.8 | 23.2 | 23.3 | 23.7 | 24.3 | 23.7 | 23.7 | 24.4 | 23.5 | 23.3 | 22.6              | 23.1 |
| 22                         | 22.4 | 21.8 | 22.4 | 22.8 | 23.1 | 23.7 | 24.2 | 24.2 | 23.2 | 21.7 | 21.1 | 22.0 | 22.3 | 22.8 | 22.8 | 23.4 | 23.5 | 23.9 | 24.3 | 24.3 | 24.3 | 23.3 | 23.3              | 23.1 |
| 23                         | 20.5 | 21.5 | 21.7 | 22.3 | 22.3 | 23.0 | 22.8 | 22.4 | 21.5 | 20.3 | 20.3 | 21.4 | 22.7 | 22.8 | 23.1 | 23.9 | 23.7 | 23.2 | 24.2 | 24.8 | 24.6 | 23.1 | 20.1              | 22.4 |
| 24                         | 22.2 | 21.9 | 22.2 | 22.3 | 22.7 | 22.5 | 22.5 | 21.8 | 21.7 | 20.8 | 22.4 | 24.3 | 23.0 | 22.3 | 22.0 | 22.1 | 22.2 | 24.8 | 26.5 | 26.8 | 29.6 | 30.6 | 26.1              | 23.8 |
| 25                         | 21.7 | 22.1 | 22.8 | 22.9 | 23.6 | 24.3 | 24.0 | 22.6 | 22.3 | 21.7 | 22.3 | 23.4 | 23.4 | 24.2 | 24.5 | 23.5 | 26.8 | 24.8 | 25.6 | 25.3 | 25.1 | 23.6 | 23.5              | 23.6 |
| 26                         | 23.0 | 22.6 | 22.8 | 22.9 | 22.9 | 23.1 | 22.3 | 21.6 | 21.5 | 22.1 | 22.4 | 23.0 | 23.0 | 23.1 | 23.4 | 23.2 | 23.2 | 23.4 | 23.4 | 23.8 | 23.2 | 23.1 | 23.0              | 22.9 |
| 27                         | 22.6 | 22.3 | 22.3 | 22.7 | 23.3 | 23.2 | 22.3 | 21.2 | 21.2 | 21.3 | 22.2 | 23.5 | 23.4 | 23.2 | 22.9 | 22.7 | 22.7 | 23.0 | 23.9 | 23.2 | 23.2 | 23.1 | 22.8              | 22.7 |
| 28                         | 22.5 | 22.2 | 22.5 | 22.4 | 23.2 | 23.7 | 22.9 | 22.0 | 21.3 | 21.4 | 22.1 | 23.1 | 23.2 | 23.3 | 23.0 | 23.1 | 23.0 | 23.1 | 23.3 | 23.4 | 23.0 | 22.5 | 22.0              | 22.7 |
| 29                         | 22.2 | 22.1 | 22.0 | 22.1 | 22.6 | 22.6 | 22.3 | 21.2 | 19.9 | 19.3 | 20.2 | 21.7 | 22.4 | 22.4 | 21.9 | 22.1 | 22.2 | 22.8 | 23.0 | 26.5 | 29.7 | 29.4 | 32.5              | 23.2 |
| 30                         | 24.3 | 23.7 | 24.0 | 22.9 | 20.9 | 18.9 | 19.3 | 18.1 | 18.8 | 21.6 | 21.5 | 20.3 | 22.6 | 23.4 | 19.2 | 21.3 | 25.3 | 28.1 | 24.1 | 24.1 | 31.6 | 35.6 | 34.9              | 24.2 |
| 31                         | 40.5 | 30.7 | 25.1 | 16.8 | 10.7 | 11.3 | 17.5 | 20.2 | 22.7 | 22.4 | 25.4 | 24.0 | 26.7 | 32.4 | 39.0 | 35.2 | 36.9 | 39.2 | 42.0 | 35.8 | 27.4 | 25.9 | 27.2              | 27.6 |
| Среднее<br>по всем<br>дням | 23.0 | 22.2 | 22.3 | 22.1 | 21.8 | 22.4 | 22.8 | 22.4 | 22.3 | 21.7 | 21.7 | 22.8 | 22.8 | 23.5 | 24.8 | 24.4 | 24.7 | 25.7 | 25.7 | 25.5 | 25.0 | 24.8 | 24.0              | 23.4 |

Барнометр Лакура (I-XII, 1963)

Величины в скобках взяты с магн. делевации

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта  $55^{\circ}50'N$  Долгота  $48^{\circ}51'E$

Среднемесячи. И = 16534

Месяц Январь Год 1963

Элемент Горизонтальная составляющая

И = 16400 + = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 130 | 134 | 136 | 136 | 137 | 137 | 133 | 131 | 132 | 132 | 135 | 140 | 141 | 139 | 131 | 124 | 120 | 129 | 133 | 133 | 130 | 129 | 130               | 131 | 133 |
| 2                          | 132 | 133 | 134 | 136 | 136 | 136 | 136 | 134 | 132 | 132 | 139 | 143 | 145 | 144 | 143 | 142 | 139 | 139 | 141 | 139 | 141 | 140 | 140               | 138 |     |
| 3                          | 139 | 140 | 141 | 144 | 147 | 146 | 145 | 141 | 139 | 140 | 140 | 140 | 141 | 140 | 140 | 140 | 140 | 141 | 139 | 140 | 139 | 139 | 139               | 138 | 141 |
| 4                          | 139 | 143 | 143 | 143 | 145 | 147 | 144 | 142 | 144 | 146 | 150 | 151 | 152 | 145 | 134 | 122 | 103 | 117 | 113 | 121 | 128 | 128 | 130               | 131 | 136 |
| 5                          | 134 | 137 | 138 | 140 | 141 | 140 | 138 | 130 | 123 | 123 | 128 | 131 | 131 | 130 | 131 | 134 | 132 | 134 | 134 | 138 | 138 | 138 | 141               | 140 | 134 |
| 6                          | 141 | 142 | 142 | 143 | 143 | 140 | 133 | 130 | 131 | 135 | 139 | 142 | 147 | 149 | 148 | 147 | 145 | 146 | 146 | 146 | 145 | 145 | 146               | 144 | 142 |
| 7                          | 142 | 139 | 148 | 148 | 150 | 149 | 148 | 148 | 148 | 144 | 142 | 143 | 148 | 147 | 141 | 132 | 126 | 138 | 128 | 133 | 136 | 136 | 135               | 136 | 141 |
| 8                          | 136 | 135 | 138 | 140 | 142 | 142 | 134 | 128 | 130 | 132 | 137 | 141 | 141 | 142 | 140 | 142 | 142 | 142 | 141 | 141 | 152 | 150 | 147               | 144 | 140 |
| 9                          | 142 | 143 | 142 | 145 | 148 | 148 | 148 | 147 | 144 | 141 | 141 | 144 | 147 | 148 | 144 | 141 | 143 | 145 | 146 | 148 | 147 | 146 | 143               | 141 | 145 |
| 10                         | 143 | 145 | 146 | 147 | 148 | 147 | 141 | 139 | 140 | 140 | 139 | 140 | 140 | 138 | 132 | 137 | 140 | 141 | 144 | 143 | 142 | 142 | 141               | 141 | 142 |
| 11                         | 143 | 143 | 143 | 146 | 146 | 144 | 142 | 147 | 149 | 150 | 150 | 155 | 159 | 159 | 149 | 145 | 140 | 143 | 136 | 120 | 131 | 138 | 133               | 137 | 144 |
| 12                         | 137 | 138 | 139 | 138 | 137 | 140 | 138 | 137 | 137 | 135 | 136 | 137 | 138 | 139 | 140 | 140 | 140 | 139 | 140 | 140 | 146 | 164 | 152               | 149 | 141 |
| 13                         | 142 | 158 | 152 | 142 | 148 | 154 | 143 | 139 | 134 | 122 | 124 | 121 | 127 | 128 | 122 | 137 | 128 | 129 | 138 | 126 | 131 | 137 | 139               | 138 | 136 |
| 14                         | 139 | 131 | 139 | 132 | 136 | 127 | 126 | 126 | 122 | 115 | 104 | 124 | 127 | 119 | 104 | 102 | 160 | 139 | 122 | 160 | 132 | 124 | 126               | 126 | 128 |
| 15                         | 123 | 134 | 131 | 130 | 109 | 114 | 111 | 118 | 111 | 99  | 116 | 122 | 130 | 119 | 123 | 128 | 124 | 132 | 136 | 130 | 140 | 137 | 134               | 128 | 124 |
| 16                         | 124 | 122 | 138 | 136 | 136 | 134 | 125 | 116 | 105 | 111 | 120 | 127 | 131 | 130 | 136 | 138 | 126 | 124 | 130 | 134 | 166 | 129 | 122               | 124 | 128 |
| 17                         | 130 | 125 | 128 | 128 | 130 | 116 | 104 | 112 | 109 | 120 | 120 | 130 | 133 | 130 | 132 | 133 | 133 | 165 | 129 | 125 | 126 | 129 | 132               | 130 | 127 |
| 18                         | 130 | 127 | 129 | 136 | 138 | 133 | 128 | 120 | 114 | 116 | 114 | 125 | 129 | 129 | 137 | 133 | 129 | 137 | 130 | 133 | 137 | 134 | 138               | 124 | 129 |
| 19                         | 122 | 127 | 135 | 134 | 130 | 127 | 121 | 123 | 112 | 110 | 121 | 128 | 127 | 121 | 108 | 118 | 122 | 146 | 134 | 127 | 130 | 156 | 132               | 135 | 127 |
| 20                         | 130 | 128 | 129 | 132 | 131 | 133 | 128 | 121 | 110 | 115 | 124 | 130 | 131 | 133 | 138 | 137 | 136 | 135 | 134 | 132 | 132 | 131 | 129               | 130 | 130 |
| 21                         | 132 | 133 | 132 | 130 | 132 | 131 | 129 | 126 | 122 | 121 | 125 | 130 | 134 | 137 | 136 | 132 | 132 | 136 | 137 | 138 | 138 | 138 | 136               | 137 | 132 |
| 22                         | 135 | 137 | 138 | 139 | 140 | 141 | 140 | 134 | 127 | 126 | 130 | 134 | 138 | 140 | 140 | 136 | 135 | 134 | 134 | 134 | 135 | 135 | 138               | 134 | 136 |
| 23                         | 138 | 147 | 148 | 148 | 145 | 141 | 135 | 126 | 123 | 125 | 130 | 132 | 132 | 134 | 137 | 135 | 138 | 136 | 136 | 140 | 135 | 130 | 142               | 136 | 136 |
| 24                         | 138 | 139 | 139 | 141 | 141 | 138 | 133 | 129 | 130 | 136 | 137 | 139 | 140 | 140 | 142 | 145 | 142 | 129 | 138 | 129 | 131 | 134 | 114               | 122 | 135 |
| 25                         | 122 | 128 | 132 | 128 | 128 | 126 | 122 | 122 | 122 | 123 | 127 | 128 | 129 | 129 | 126 | 125 | 123 | 130 | 145 | 138 | 130 | 131 | 131               | 134 | 128 |
| 26                         | 135 | 136 | 137 | 139 | 139 | 137 | 133 | 131 | 130 | 134 | 139 | 138 | 137 | 138 | 137 | 137 | 138 | 138 | 139 | 141 | 137 | 138 | 138               | 139 | 137 |
| 27                         | 140 | 141 | 142 | 142 | 142 | 142 | 139 | 140 | 137 | 134 | 136 | 138 | 140 | 141 | 141 | 142 | 142 | 142 | 142 | 141 | 141 | 141 | 140               | 140 | 140 |
| 28                         | 142 | 143 | 146 | 145 | 144 | 140 | 138 | 136 | 138 | 142 | 146 | 147 | 143 | 142 | 141 | 141 | 140 | 141 | 142 | 142 | 142 | 143 | 144               | 146 | 142 |
| 29                         | 147 | 148 | 149 | 149 | 149 | 147 | 143 | 141 | 141 | 149 | 157 | 159 | 153 | 146 | 142 | 142 | 141 | 142 | 148 | 151 | 147 | 142 | 140               | 133 | 146 |
| 30                         | 142 | 132 | 138 | 146 | 141 | 142 | 149 | 147 | 144 | 119 | 122 | 123 | 102 | 111 | 101 | 88  | 100 | 123 | 143 | 136 | 136 | 112 | 97                | 114 | 125 |
| 31                         | 140 | 171 | 165 | 133 | 115 | 92  | 80  | 73  | 72  | 69  | 74  | 85  | 79  | 73  | 57  | 67  | 70  | 37  | 62  | 82  | 99  | 108 | 112               | 114 | 93  |
| Среднее<br>по всем<br>дням | 136 | 138 | 140 | 139 | 139 | 136 | 132 | 130 | 127 | 127 | 130 | 134 | 135 | 134 | 131 | 131 | 131 | 134 | 134 | 135 | 137 | 136 | 134               | 134 | 134 |

Величины в скобках взяты с магн. девиацией

Ведомство Министерство Высшего Образования.  
Обсерватория Казанская (Займище) Широта 55°50' N Долгота 48°51' E

Элемент Вертикальная составляющая Среднемесячи. Σ = 49760

Месяц Январь Год 1963

Σ = 49465 + = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |     |                   |     |
| 1                          | 298 | 299 | 299 | 298 | 299 | 298 | 299 | 301 | 301 | 301 | 302 | 303 | 302 | 301 | 304 | 307 | 310 | 307 | 301 | 300 | 299 | 299 | 298 | 298               | 301 |
| 2                          | 298 | 297 | 297 | 296 | 297 | 297 | 297 | 298 | 298 | 298 | 297 | 298 | 298 | 297 | 297 | 297 | 297 | 297 | 296 | 296 | 295 | 294 | 294 | 294               | 297 |
| 3                          | 294 | 292 | 292 | 292 | 292 | 291 | 291 | 294 | 294 | 296 | 296 | 297 | 297 | 297 | 298 | 299 | 298 | 298 | 299 | 299 | 298 | 296 | 296 | 295               | 295 |
| 4                          | 294 | 293 | 293 | 294 | 294 | 292 | 292 | 293 | 295 | 297 | 297 | 297 | 297 | 297 | 301 | 307 | 316 | 316 | 312 | 307 | 303 | 301 | 301 | 301               | 300 |
| 5                          | 301 | 299 | 299 | 300 | 301 | 301 | 301 | 301 | 300 | 301 | 303 | 304 | 305 | 306 | 306 | 305 | 305 | 303 | 303 | 301 | 300 | 298 | 297 | 297               | 302 |
| 6                          | 296 | 295 | 297 | 296 | 295 | 296 | 295 | 295 | 297 | 297 | 300 | 301 | 299 | 299 | 297 | 297 | 297 | 298 | 297 | 295 | 295 | 294 | 294 | 294               | 296 |
| 7                          | 294 | 292 | 291 | 291 | 292 | 292 | 290 | 289 | 289 | 290 | 294 | 297 | 297 | 298 | 300 | 302 | 309 | 308 | 306 | 303 | 301 | 301 | 300 | 298               | 297 |
| 8                          | 297 | 296 | 297 | 296 | 297 | 298 | 297 | 295 | 294 | 294 | 299 | 301 | 299 | 301 | 301 | 301 | 301 | 300 | 301 | 301 | 297 | 295 | 292 | 294               | 298 |
| 9                          | 295 | 295 | 294 | 294 | 294 | 293 | 292 | 292 | 291 | 290 | 294 | 295 | 297 | 298 | 298 | 297 | 297 | 297 | 297 | 296 | 295 | 295 | 294 | 295               | 295 |
| 10                         | 294 | 293 | 291 | 292 | 291 | 291 | 290 | 290 | 290 | 291 | 294 | 298 | 299 | 299 | 301 | 301 | 301 | 300 | 299 | 297 | 295 | 294 | 294 | 294               | 295 |
| 11                         | 294 | 293 | 291 | 291 | 291 | 291 | 289 | 288 | 286 | 284 | 288 | 291 | 292 | 290 | 291 | 294 | 295 | 296 | 298 | 297 | 297 | 296 | 294 | 294               | 292 |
| 12                         | 292 | 292 | 290 | 290 | 290 | 288 | 288 | 288 | 288 | 287 | 290 | 295 | 297 | 295 | 294 | 294 | 294 | 296 | 297 | 294 | 294 | 286 | 281 | 284               | 291 |
| 13                         | 286 | 275 | 275 | 279 | 281 | 281 | 283 | 284 | 288 | 293 | 297 | 306 | 301 | 301 | 301 | 299 | 299 | 301 | 293 | 294 | 291 | 286 | 279 | 275               | 290 |
| 14                         | 275 | 278 | 281 | 283 | 284 | 288 | 288 | 289 | 290 | 294 | 303 | 315 | 305 | 305 | 308 | 312 | 301 | 294 | 296 | 275 | 273 | 281 | 290 | 290               | 292 |
| 15                         | 290 | 288 | 288 | 289 | 291 | 294 | 297 | 299 | 301 | 304 | 303 | 306 | 305 | 305 | 307 | 304 | 305 | 303 | 299 | 297 | 288 | 286 | 287 | 291               | 297 |
| 16                         | 290 | 283 | 283 | 288 | 288 | 288 | 290 | 291 | 294 | 294 | 297 | 303 | 304 | 301 | 306 | 301 | 301 | 302 | 299 | 295 | 281 | 275 | 278 | 280               | 292 |
| 17                         | 286 | 287 | 290 | 291 | 293 | 294 | 294 | 297 | 299 | 298 | 301 | 304 | 301 | 302 | 301 | 301 | 302 | 297 | 294 | 297 | 297 | 294 | 291 | 293               | 296 |
| 18                         | 293 | 294 | 293 | 293 | 292 | 293 | 293 | 294 | 295 | 299 | 304 | 306 | 305 | 305 | 303 | 301 | 303 | 299 | 301 | 298 | 291 | 288 | 276 | 269               | 295 |
| 19                         | 270 | 281 | 288 | 290 | 293 | 294 | 294 | 294 | 294 | 294 | 297 | 299 | 302 | 305 | 310 | 307 | 309 | 301 | 296 | 299 | 295 | 288 | 283 | 284               | 294 |
| 20                         | 288 | 291 | 293 | 294 | 294 | 295 | 294 | 294 | 295 | 297 | 301 | 301 | 303 | 303 | 301 | 301 | 298 | 298 | 297 | 297 | 295 | 294 | 294 | 294               | 296 |
| 21                         | 294 | 294 | 294 | 294 | 294 | 294 | 291 | 291 | 292 | 293 | 295 | 297 | 299 | 297 | 297 | 297 | 297 | 297 | 295 | 294 | 294 | 293 | 293 | 293               | 295 |
| 22                         | 292 | 292 | 291 | 292 | 293 | 293 | 290 | 290 | 289 | 291 | 297 | 298 | 297 | 296 | 295 | 294 | 297 | 296 | 295 | 295 | 295 | 294 | 294 | 292               | 294 |
| 23                         | 289 | 286 | 287 | 286 | 288 | 289 | 288 | 288 | 288 | 288 | 293 | 297 | 297 | 297 | 297 | 297 | 297 | 296 | 295 | 292 | 291 | 291 | 288 | 288               | 291 |
| 24                         | 290 | 290 | 290 | 290 | 290 | 288 | 285 | 286 | 288 | 288 | 292 | 294 | 293 | 294 | 294 | 294 | 294 | 296 | 295 | 295 | 291 | 278 | 278 | 281               | 290 |
| 25                         | 283 | 284 | 288 | 291 | 294 | 294 | 291 | 291 | 292 | 294 | 299 | 299 | 299 | 299 | 299 | 299 | 301 | 299 | 294 | 290 | 292 | 294 | 294 | 294               | 294 |
| 26                         | 294 | 294 | 294 | 294 | 294 | 294 | 293 | 293 | 293 | 293 | 295 | 295 | 294 | 296 | 297 | 297 | 297 | 297 | 297 | 297 | 295 | 295 | 295 | 295               | 295 |
| 27                         | 294 | 294 | 294 | 294 | 294 | 291 | 291 | 293 | 294 | 294 | 298 | 301 | 301 | 300 | 300 | 299 | 299 | 300 | 299 | 298 | 299 | 297 | 297 | 297               | 297 |
| 28                         | 297 | 296 | 294 | 294 | 294 | 294 | 294 | 294 | 294 | 294 | 298 | 298 | 298 | 297 | 297 | 297 | 299 | 298 | 298 | 296 | 294 | 295 | 294 | 294               | 296 |
| 29                         | 294 | 294 | 293 | 292 | 291 | 292 | 291 | 291 | 290 | 291 | 295 | 294 | 291 | 292 | 294 | 294 | 295 | 295 | 295 | 294 | 288 | 288 | 283 | 288               | 292 |
| 30                         | 288 | 288 | 289 | 290 | 288 | 286 | 284 | 286 | 288 | 292 | 301 | 309 | 324 | 320 | 324 | 331 | 328 | 319 | 305 | 301 | 297 | 290 | 295 | 288               | 300 |
| 31                         | 270 | 256 | 252 | 258 | 265 | 270 | 281 | 291 | 301 | 309 | 320 | 330 | 340 | 351 | 366 | 360 | 341 | 335 | 321 | 309 | 309 | 310 | 307 | 307               | 307 |
| Среднее<br>по всем<br>дням | 291 | 290 | 290 | 291 | 291 | 292 | 291 | 292 | 293 | 294 | 298 | 301 | 301 | 301 | 303 | 303 | 303 | 301 | 299 | 297 | 294 | 292 | 291 | 291               | 295 |

Условные обозначения: Δ — погасла лампа; > или < — запись вышла за бумагу; □ — остановились часы; Λ — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Величины в скобках взяты с магн. Эдельмана.

Обработал Горбух

Проверил Горбух

Ведомство Министерство Высшего Образования.  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E  
Месяц Февраль Год 1963

Среднемесячн. 20 = 10°23.3  
Элемент Склонение  
20 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |      |
| 1                          | 26.2 | 26.2 | 26.0 | 25.7 | 25.3 | 24.4 | 23.5 | 22.8 | 21.5 | 20.8 | 22.8 | 24.3 | 26.8 | 30.7 | 28.7 | 29.0 | 29.0 | 30.0 | 29.3 | 27.9 | 28.2 | 25.7 | 18.3              | 25.5 | 25.8 |
| 2                          | 25.5 | 24.7 | 23.9 | 23.0 | 22.8 | 22.9 | 22.9 | 22.7 | 22.6 | 23.1 | 23.8 | 24.5 | 24.7 | 24.4 | 24.0 | 23.5 | 23.5 | 23.2 | 23.1 | 23.5 | 24.4 | 23.7 | 23.8              | 24.0 | 23.7 |
| 3                          | 23.7 | 23.3 | 22.9 | 23.5 | 24.1 | 24.0 | 23.1 | 22.5 | 21.6 | 20.8 | 20.8 | 22.4 | 22.9 | 23.5 | 25.1 | 24.0 | 25.3 | 26.1 | 25.3 | 25.2 | 24.2 | 23.8 | 23.3              | 23.0 | 23.5 |
| 4                          | 22.7 | 22.6 | 22.7 | 23.0 | 23.7 | 24.3 | 24.0 | 23.6 | 23.0 | 22.3 | 21.6 | 21.7 | 21.8 | 22.0 | 22.1 | 22.2 | 22.0 | 23.3 | 26.8 | 24.9 | 24.0 | 25.2 | 24.6              | 23.2 | 23.2 |
| 5                          | 23.1 | 23.0 | 22.6 | 22.7 | 23.3 | 24.9 | 24.0 | 23.1 | 22.8 | 22.0 | 21.2 | 21.9 | 23.8 | 23.3 | 22.8 | 23.2 | 23.8 | 23.4 | 23.9 | 24.0 | 24.9 | 24.7 | 23.6              | 23.3 | 23.3 |
| 6                          | 22.8 | 22.4 | 22.1 | 22.2 | 22.3 | 23.0 | 23.5 | 23.5 | 23.7 | 23.8 | 23.5 | 22.6 | 22.3 | 21.9 | 21.9 | 21.7 | 22.8 | 23.2 | 23.9 | 24.1 | 24.6 | 24.4 | 24.1              | 23.2 | 23.1 |
| 7                          | 22.7 | 22.4 | 21.8 | 21.7 | 21.9 | 22.7 | 23.2 | 23.4 | 24.0 | 24.7 | 23.5 | 22.8 | 21.9 | 22.0 | 22.0 | 22.1 | 22.3 | 22.8 | 23.2 | 23.9 | 24.6 | 25.4 | 25.5              | 24.2 | 23.1 |
| 8                          | 23.7 | 23.0 | 22.6 | 22.2 | 22.3 | 22.2 | 22.4 | 22.3 | 22.8 | 23.3 | 23.0 | 23.6 | 23.5 | 22.9 | 22.5 | 22.4 | 22.5 | 22.7 | 22.8 | 23.0 | 23.0 | 22.9 | 22.9              | 22.6 | 22.8 |
| 9                          | 22.2 | 22.2 | 22.2 | 21.9 | 21.7 | 21.1 | 21.0 | 21.0 | 20.7 | 21.0 | 21.4 | 21.6 | 21.7 | 21.3 | 21.2 | 21.1 | 21.0 | 20.5 | 21.6 | 22.1 | 21.9 | 23.0 | 28.9              | 36.9 | 22.5 |
| 10                         | 39.8 | 27.9 | 20.0 | 20.0 | 19.9 | 21.9 | 22.2 | 22.0 | 20.1 | 21.0 | 22.1 | 22.2 | 32.7 | 32.2 | 25.8 | 26.5 | 31.9 | 28.3 | 32.8 | 30.4 | 27.4 | 19.8 | 25.8              | 24.9 | 25.7 |
| 11                         | 22.7 | 22.2 | 24.8 | 24.5 | 24.2 | 24.0 | 21.7 | 21.7 | 21.8 | 22.4 | 24.8 | 23.7 | 26.5 | 25.5 | 25.1 | 29.6 | 31.0 | 25.8 | 25.5 | 26.9 | 24.3 | 26.1 | 23.3              | 21.9 | 24.6 |
| 12                         | 23.3 | 19.4 | 17.4 | 19.9 | 21.9 | 20.8 | 23.4 | 23.5 | 26.5 | 22.8 | 22.0 | 23.6 | 25.2 | 27.0 | 26.0 | 23.6 | 24.4 | 24.8 | 27.7 | 26.1 | 25.9 | 23.7 | 21.6              | 21.7 | 23.4 |
| 13                         | 21.2 | 23.0 | 22.7 | 22.5 | 22.5 | 22.4 | 23.8 | 22.8 | 25.2 | 24.8 | 25.1 | 27.7 | 32.6 | 27.2 | 25.4 | 31.0 | 34.3 | 26.1 | 26.8 | 24.6 | 28.7 | 26.8 | 22.5              | 17.8 | 25.3 |
| 14                         | 19.8 | 24.5 | 24.7 | 24.1 | 24.2 | 24.1 | 23.4 | 22.3 | 25.5 | 21.2 | 22.0 | 22.3 | 24.1 | 27.0 | 29.4 | 27.5 | 26.1 | 25.0 | 24.1 | 22.2 | 21.3 | 23.9 | 24.1              | 23.1 | 24.0 |
| 15                         | 23.7 | 24.0 | 24.0 | 23.2 | 22.9 | 23.0 | 22.6 | 22.5 | 22.5 | 22.5 | 22.9 | 24.6 | 27.8 | 31.4 | 28.5 | 23.4 | 24.3 | 24.7 | 25.1 | 24.1 | 24.3 | 23.6 | 23.9              | 23.8 | 24.3 |
| 16                         | 24.4 | 23.8 | 23.7 | 23.3 | 22.8 | 22.0 | 21.3 | 20.3 | 20.2 | 21.2 | 22.7 | 23.1 | 23.4 | 24.8 | 23.7 | 24.7 | 29.0 | 25.4 | 23.7 | 23.5 | 23.5 | 23.6 | 23.8              | 23.8 | 23.4 |
| 17                         | 23.7 | 23.3 | 23.1 | 23.4 | 23.5 | 23.0 | 22.3 | 21.8 | 21.8 | 22.5 | 22.8 | 22.8 | 23.0 | 22.3 | 22.4 | 22.6 | 23.2 | 23.8 | 23.4 | 23.3 | 23.3 | 23.3 | 23.4              | 22.8 | 23.0 |
| 18                         | 23.1 | 23.1 | 23.0 | 22.9 | 22.7 | 22.5 | 22.2 | 21.5 | 20.8 | 20.9 | 20.8 | 21.1 | 21.9 | 22.0 | 22.2 | 22.5 | 25.0 | 23.5 | 23.1 | 22.7 | 23.3 | 23.0 | 23.0              | 22.9 | 22.5 |
| 19                         | 23.0 | 22.8 | 22.6 | 22.3 | 22.1 | 21.7 | 21.0 | 20.5 | 19.9 | 20.3 | 21.0 | 21.6 | 21.8 | 21.3 | 21.4 | 21.5 | 21.5 | 22.1 | 21.8 | 22.4 | 22.2 | 22.5 | 22.7              | 22.6 | 21.8 |
| 20                         | 22.4 | 21.9 | 21.4 | 21.2 | 20.8 | 20.6 | 20.0 | 20.1 | 19.8 | 20.2 | 21.0 | 20.8 | 21.3 | 20.6 | 20.9 | 21.6 | 21.3 | 21.4 | 23.1 | 25.4 | 25.7 | 26.8 | 26.8              | 24.7 | 22.1 |
| 21                         | 25.4 | 24.6 | 24.1 | 23.7 | 23.2 | 22.4 | 21.2 | 20.3 | 20.7 | 21.6 | 21.9 | 22.7 | 22.9 | 23.1 | 22.5 | 23.5 | 27.6 | 27.1 | 25.8 | 25.3 | 24.8 | 25.7 | 25.6              | 24.3 | 23.8 |
| 22                         | 23.0 | 22.9 | 22.8 | 22.8 | 22.6 | 22.7 | 22.5 | 22.0 | 22.5 | 21.4 | 21.7 | 21.7 | 22.9 | 22.7 | 22.8 | 22.3 | 22.5 | 23.0 | 26.6 | 24.8 | 24.1 | 21.5 | 23.3              | 23.3 | 22.8 |
| 23                         | 22.8 | 22.6 | 22.3 | 22.1 | 21.4 | 21.3 | 21.4 | 20.3 | 19.9 | 20.0 | 20.6 | 21.7 | 22.8 | 22.0 | 22.0 | 22.6 | 28.6 | 24.2 | 25.2 | 23.8 | 23.6 | 23.6 | 23.6              | 23.4 | 22.6 |
| 24                         | 22.9 | 22.8 | 22.4 | 22.7 | 22.7 | 22.9 | 22.3 | 22.2 | 21.5 | 21.0 | 21.6 | 22.3 | 22.8 | 22.6 | 22.1 | 22.4 | 22.3 | 22.5 | 23.0 | 23.5 | 23.4 | 23.1 | 23.2              | 23.1 | 22.6 |
| 25                         | 23.2 | 22.3 | 22.5 | 23.2 | 22.7 | 22.7 | 22.2 | 21.9 | 21.8 | 21.7 | 21.6 | 21.7 | 22.5 | 22.8 | 22.8 | 23.0 | 22.9 | 22.7 | 23.3 | 23.4 | 23.0 | 23.0 | 23.1              | 23.0 | 22.6 |
| 26                         | 22.9 | 23.1 | 23.4 | 23.0 | 22.7 | 22.4 | 21.4 | 21.1 | 20.9 | 19.6 | 19.7 | 21.3 | 23.3 | 23.3 | 23.7 | 24.0 | 24.7 | 23.8 | 23.4 | 23.2 | 23.3 | 23.2 | 22.9              | 23.6 | 22.7 |
| 27                         | 23.5 | 23.7 | 23.3 | 23.4 | 23.0 | 22.7 | 22.4 | 21.7 | 20.9 | 20.7 | 20.8 | 21.4 | 21.9 | 22.2 | 22.1 | 22.1 | 22.4 | 22.5 | 23.1 | 23.0 | 23.0 | 23.2 | 23.2              | 22.2 | 22.4 |
| 28                         | 22.8 | 22.5 | 23.1 | 23.0 | 22.3 | 22.9 | 21.6 | 20.5 | 19.0 | 20.0 | 19.9 | 20.1 | 20.7 | 21.5 | 21.4 | 22.3 | 22.1 | 22.0 | 22.7 | 22.9 | 23.0 | 22.9 | 23.6              | 24.6 | 22.0 |
| 29                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |      |
| 30                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |      |
| 31                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |      |
| Среднее<br>по всем<br>дням | 23.8 | 23.2 | 22.8 | 22.8 | 22.7 | 22.7 | 22.4 | 21.9 | 21.9 | 21.7 | 22.0 | 22.6 | 23.9 | 24.1 | 23.6 | 23.8 | 24.9 | 24.1 | 24.6 | 24.3 | 24.2 | 23.9 | 23.7              | 23.7 | 23.3 |

Ведомство Министерство Высшего Образования.  
Обсерватория Казанская (Займище)

Широта  $55^{\circ}50'N$  Долгота  $48^{\circ}51'E$

Среднемесячи. Ж = 16542

Элемент Горизонтальная свет.

Ж = 16400 + = 0

Месяц Февраль Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 117 | 117 | 115 | 116 | 114 | 115 | 117 | 118 | 110 | 117 | 119 | 120 | 118 | 101 | 99  | 107 | 106 | 108 | 113 | 112 | 113 | 124 | 118               | 124 | 114 |
| 2                          | 132 | 134 | 134 | 137 | 132 | 129 | 126 | 125 | 128 | 132 | 140 | 144 | 142 | 140 | 140 | 140 | 140 | 140 | 139 | 139 | 144 | 136 | 137               | 137 | 136 |
| 3                          | 138 | 138 | 139 | 138 | 136 | 129 | 124 | 122 | 126 | 133 | 142 | 145 | 145 | 142 | 139 | 139 | 136 | 137 | 140 | 143 | 144 | 141 | 140               | 140 | 137 |
| 4                          | 143 | 143 | 144 | 145 | 143 | 139 | 133 | 131 | 131 | 134 | 138 | 142 | 146 | 149 | 151 | 150 | 150 | 141 | 132 | 134 | 154 | 148 | 142               | 142 | 142 |
| 5                          | 142 | 142 | 143 | 143 | 143 | 136 | 130 | 130 | 129 | 130 | 134 | 135 | 131 | 134 | 129 | 127 | 139 | 142 | 146 | 146 | 149 | 149 | 145               | 145 | 138 |
| 6                          | 144 | 146 | 143 | 144 | 148 | 149 | 147 | 147 | 147 | 148 | 148 | 147 | 144 | 142 | 140 | 140 | 138 | 143 | 146 | 149 | 148 | 150 | 148               | 146 | 146 |
| 7                          | 147 | 147 | 146 | 151 | 152 | 152 | 153 | 155 | 151 | 148 | 149 | 141 | 140 | 141 | 144 | 148 | 147 | 148 | 147 | 149 | 155 | 150 | 147               | 143 | 148 |
| 8                          | 144 | 147 | 147 | 148 | 149 | 150 | 150 | 150 | 151 | 152 | 152 | 149 | 148 | 147 | 148 | 148 | 149 | 150 | 150 | 149 | 149 | 149 | 149               | 149 | 149 |
| 9                          | 151 | 152 | 153 | 154 | 156 | 156 | 154 | 157 | 160 | 164 | 167 | 168 | 167 | 164 | 160 | 158 | 162 | 164 | 158 | 159 | 167 | 161 | 172               | 130 | 159 |
| 10                         | 114 | 110 | 120 | 133 | 128 | 130 | 125 | 105 | 110 | 115 | 122 | 119 | 100 | 109 | 111 | 115 | 134 | 123 | 127 | 150 | 121 | 123 | 130               | 112 | 120 |
| 11                         | 113 | 119 | 131 | 131 | 129 | 110 | 123 | 132 | 130 | 120 | 128 | 132 | 122 | 139 | 130 | 136 | 160 | 137 | 133 | 151 | 152 | 131 | 130               | 130 | 131 |
| 12                         | 135 | 119 | 128 | 137 | 132 | 128 | 120 | 123 | 114 | 137 | 140 | 142 | 137 | 134 | 134 | 138 | 138 | 142 | 158 | 150 | 145 | 138 | 137               | 132 | 135 |
| 13                         | 129 | 136 | 130 | 127 | 127 | 126 | 102 | 112 | 121 | 127 | 132 | 132 | 125 | 124 | 133 | 160 | 149 | 138 | 133 | 173 | 136 | 126 | 130               | 130 | 132 |
| 14                         | 133 | 132 | 130 | 128 | 119 | 120 | 127 | 121 | 98  | 130 | 136 | 138 | 137 | 128 | 132 | 139 | 143 | 134 | 139 | 147 | 148 | 140 | 139               | 139 | 132 |
| 15                         | 135 | 136 | 137 | 139 | 139 | 138 | 134 | 137 | 137 | 139 | 138 | 135 | 135 | 130 | 130 | 135 | 138 | 139 | 143 | 135 | 135 | 134 | 136               | 134 | 136 |
| 16                         | 138 | 138 | 138 | 135 | 134 | 133 | 133 | 134 | 138 | 140 | 141 | 144 | 142 | 139 | 139 | 134 | 141 | 134 | 138 | 140 | 141 | 141 | 141               | 140 | 138 |
| 17                         | 140 | 141 | 141 | 141 | 140 | 141 | 142 | 144 | 146 | 148 | 150 | 148 | 145 | 144 | 146 | 146 | 146 | 147 | 148 | 149 | 149 | 148 | 147               | 147 | 145 |
| 18                         | 148 | 149 | 150 | 150 | 150 | 153 | 156 | 153 | 150 | 150 | 153 | 156 | 156 | 153 | 149 | 147 | 152 | 152 | 153 | 152 | 152 | 152 | 152               | 154 | 152 |
| 19                         | 153 | 152 | 152 | 152 | 153 | 154 | 157 | 158 | 157 | 154 | 156 | 157 | 156 | 155 | 152 | 151 | 150 | 152 | 154 | 156 | 158 | 157 | 158               | 157 | 155 |
| 20                         | 158 | 158 | 158 | 163 | 163 | 164 | 163 | 160 | 158 | 157 | 153 | 154 | 154 | 148 | 145 | 147 | 150 | 151 | 160 | 160 | 156 | 150 | 158               | 152 | 156 |
| 21                         | 142 | 142 | 148 | 147 | 145 | 147 | 146 | 142 | 140 | 141 | 147 | 148 | 143 | 142 | 141 | 142 | 144 | 133 | 135 | 142 | 146 | 147 | 148               | 143 | 143 |
| 22                         | 142 | 145 | 143 | 145 | 143 | 143 | 142 | 140 | 134 | 140 | 146 | 149 | 146 | 146 | 145 | 146 | 142 | 146 | 150 | 152 | 147 | 153 | 150               | 148 | 145 |
| 23                         | 148 | 150 | 151 | 153 | 157 | 158 | 158 | 151 | 155 | 158 | 157 | 150 | 140 | 144 | 143 | 143 | 139 | 139 | 148 | 147 | 146 | 148 | 148               | 147 | 149 |
| 24                         | 148 | 149 | 148 | 145 | 145 | 148 | 147 | 146 | 149 | 151 | 149 | 148 | 146 | 145 | 148 | 148 | 149 | 148 | 149 | 150 | 150 | 151 | 150               | 151 | 148 |
| 25                         | 150 | 147 | 148 | 150 | 149 | 147 | 142 | 141 | 143 | 144 | 149 | 150 | 150 | 145 | 147 | 145 | 142 | 147 | 150 | 153 | 151 | 151 | 151               | 150 | 148 |
| 26                         | 150 | 150 | 150 | 151 | 152 | 151 | 145 | 148 | 143 | 140 | 140 | 143 | 145 | 143 | 142 | 138 | 146 | 148 | 150 | 151 | 150 | 149 | 149               | 148 | 147 |
| 27                         | 148 | 150 | 150 | 149 | 150 | 148 | 146 | 146 | 146 | 146 | 151 | 152 | 153 | 152 | 152 | 152 | 151 | 150 | 150 | 150 | 151 | 151 | 150               | 153 | 150 |
| 28                         | 151 | 151 | 150 | 150 | 150 | 149 | 146 | 148 | 149 | 143 | 150 | 156 | 155 | 154 | 144 | 148 | 150 | 152 | 154 | 153 | 154 | 155 | 156               | 150 | 151 |
| 29                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |     |
| 30                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |     |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |     |
| Среднее<br>по всем<br>дням | 140 | 141 | 142 | 143 | 142 | 141 | 139 | 138 | 138 | 141 | 144 | 144 | 142 | 140 | 140 | 142 | 144 | 142 | 144 | 148 | 147 | 145 | 145               | 142 | 142 |

Ведомство Министерство Высшего Образования.  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E  
Месяц Февраль Год 1963

Среднемесячн. Σ = 49760

Элемент Вертикальная составляющая

Σ = 49465 + = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн<br>суточн |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |     |                 |     |
| 1                          | 306 | 304 | 303 | 303 | 302 | 301 | 301 | 301 | 301 | 303 | 309 | 312 | 309 | 317 | 320 | 320 | 317 | 314 | 308 | 302 | 296 | 290 | 290 | 296             | 305 |
| 2                          | 301 | 301 | 301 | 301 | 301 | 305 | 305 | 307 | 307 | 305 | 303 | 301 | 301 | 301 | 301 | 303 | 303 | 302 | 302 | 301 | 298 | 299 | 301 | 300             | 302 |
| 3                          | 299 | 299 | 299 | 301 | 301 | 301 | 304 | 306 | 305 | 304 | 307 | 307 | 306 | 303 | 302 | 303 | 304 | 303 | 301 | 301 | 299 | 299 | 299 | 298             | 302 |
| 4                          | 297 | 297 | 297 | 298 | 299 | 299 | 301 | 301 | 301 | 301 | 301 | 303 | 301 | 301 | 301 | 301 | 301 | 302 | 306 | 305 | 299 | 295 | 295 | 296             | 300 |
| 5                          | 297 | 296 | 297 | 297 | 299 | 298 | 294 | 294 | 295 | 299 | 301 | 306 | 306 | 307 | 307 | 309 | 307 | 304 | 302 | 301 | 301 | 297 | 296 | 296             | 300 |
| 6                          | 295 | 295 | 295 | 295 | 295 | 294 | 292 | 294 | 294 | 292 | 293 | 296 | 299 | 301 | 301 | 301 | 303 | 303 | 301 | 301 | 299 | 297 | 295 | 294             | 297 |
| 7                          | 294 | 294 | 294 | 294 | 294 | 295 | 294 | 294 | 293 | 288 | 288 | 294 | 297 | 298 | 298 | 298 | 297 | 298 | 297 | 297 | 294 | 293 | 291 | 292             | 294 |
| 8                          | 294 | 291 | 292 | 291 | 291 | 291 | 291 | 294 | 292 | 294 | 293 | 294 | 294 | 295 | 297 | 297 | 297 | 297 | 297 | 297 | 295 | 295 | 295 | 294             | 294 |
| 9                          | 294 | 294 | 293 | 293 | 291 | 292 | 293 | 293 | 293 | 294 | 294 | 294 | 294 | 293 | 294 | 294 | 294 | 294 | 294 | 294 | 294 | 292 | 283 | 273             | 292 |
| 10                         | 275 | 288 | 284 | 287 | 290 | 290 | 293 | 297 | 301 | 303 | 307 | 314 | 340 | 337 | 324 | 320 | 313 | 306 | 304 | 295 | 288 | 278 | 288 | 293             | 301 |
| 11                         | 294 | 298 | 300 | 301 | 301 | 304 | 303 | 301 | 301 | 304 | 307 | 307 | 310 | 307 | 307 | 308 | 301 | 299 | 301 | 292 | 284 | 281 | 286 | 292             | 300 |
| 12                         | 294 | 291 | 292 | 288 | 292 | 296 | 302 | 302 | 304 | 301 | 301 | 301 | 301 | 303 | 301 | 301 | 298 | 297 | 294 | 289 | 285 | 282 | 281 | 283             | 295 |
| 13                         | 284 | 286 | 289 | 292 | 294 | 295 | 300 | 303 | 307 | 305 | 307 | 309 | 311 | 310 | 305 | 301 | 292 | 293 | 288 | 275 | 275 | 288 | 287 | 283             | 295 |
| 14                         | 281 | 282 | 286 | 289 | 292 | 294 | 294 | 294 | 301 | 300 | 299 | 301 | 301 | 301 | 301 | 301 | 294 | 295 | 295 | 290 | 288 | 290 | 291 | 291             | 294 |
| 15                         | 290 | 291 | 291 | 291 | 293 | 293 | 291 | 293 | 294 | 294 | 299 | 300 | 301 | 306 | 305 | 301 | 301 | 300 | 295 | 296 | 297 | 297 | 296 | 295             | 296 |
| 16                         | 294 | 294 | 294 | 294 | 292 | 291 | 292 | 293 | 293 | 294 | 295 | 297 | 298 | 299 | 299 | 301 | 300 | 299 | 299 | 299 | 298 | 297 | 296 | 295             | 296 |
| 17                         | 294 | 294 | 294 | 294 | 295 | 294 | 293 | 294 | 299 | 298 | 297 | 297 | 299 | 299 | 299 | 299 | 299 | 299 | 298 | 298 | 298 | 298 | 297 | 296             | 297 |
| 18                         | 295 | 294 | 294 | 294 | 294 | 291 | 288 | 288 | 293 | 294 | 294 | 294 | 294 | 294 | 296 | 296 | 299 | 297 | 297 | 296 | 297 | 297 | 297 | 294             | 294 |
| 19                         | 293 | 293 | 293 | 293 | 294 | 292 | 290 | 288 | 288 | 288 | 288 | 289 | 291 | 291 | 292 | 292 | 293 | 293 | 293 | 293 | 293 | 292 | 292 | 291             | 291 |
| 20                         | 289 | 289 | 287 | 286 | 284 | 283 | 282 | 282 | 282 | 284 | 287 | 288 | 291 | 293 | 294 | 295 | 295 | 295 | 295 | 295 | 291 | 292 | 290 | 286             | 282 |
| 21                         | 288 | 290 | 291 | 290 | 289 | 288 | 288 | 290 | 291 | 293 | 294 | 291 | 292 | 291 | 292 | 294 | 295 | 294 | 295 | 294 | 293 | 291 | 289 | 291             | 291 |
| 22                         | 290 | 291 | 290 | 291 | 292 | 290 | 285 | 284 | 289 | 294 | 294 | 294 | 294 | 295 | 295 | 295 | 295 | 297 | 296 | 292 | 294 | 293 | 292 | 291             | 292 |
| 23                         | 291 | 291 | 290 | 288 | 288 | 287 | 286 | 285 | 287 | 290 | 291 | 294 | 293 | 291 | 292 | 294 | 295 | 294 | 294 | 292 | 292 | 292 | 291 | 290             | 291 |
| 24                         | 290 | 288 | 288 | 288 | 288 | 288 | 287 | 287 | 287 | 288 | 288 | 289 | 293 | 293 | 292 | 292 | 294 | 294 | 294 | 294 | 294 | 294 | 293 | 289             | 290 |
| 25                         | 289 | 288 | 288 | 288 | 286 | 286 | 286 | 286 | 286 | 290 | 293 | 292 | 294 | 295 | 295 | 295 | 296 | 296 | 295 | 295 | 294 | 294 | 294 | 294             | 291 |
| 26                         | 292 | 290 | 292 | 289 | 288 | 288 | 285 | 284 | 287 | 291 | 294 | 294 | 300 | 300 | 299 | 301 | 301 | 300 | 298 | 298 | 297 | 295 | 294 | 294             | 294 |
| 27                         | 293 | 293 | 292 | 293 | 289 | 288 | 288 | 289 | 289 | 290 | 291 | 294 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 292 | 290             | 292 |
| 28                         | 288 | 288 | 288 | 288 | 286 | 282 | 281 | 281 | 283 | 288 | 292 | 291 | 292 | 290 | 293 | 293 | 293 | 293 | 293 | 292 | 292 | 291 | 290 | 288             | 289 |
| 29                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |
| 30                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |
| Среднее<br>по всем<br>дням | 292 | 292 | 293 | 293 | 293 | 293 | 292 | 293 | 294 | 295 | 297 | 298 | 300 | 300 | 300 | 300 | 299 | 298 | 297 | 295 | 294 | 292 | 292 | 291             | 295 |

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Элемент Склонение Среднемесячн. D = 10° + 0°

Месяц Март Год 1963

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                  |      |      |
| 1                          | 25.7 | 24.6 | 25.3 | 23.6 | 23.3 | 22.4 | 20.7 | 20.5 | 17.0 | 19.0 | 18.4 | 18.4 | 20.7 | 22.6 | 22.6 | 25.2 | 32.7 | 26.7 | 24.8 | 24.6 | 23.6 | 24.7 | 23.7             | 21.5 | 23.0 |
| 2                          | 22.4 | 23.7 | 23.6 | 23.4 | 23.5 | 23.6 | 23.7 | 22.2 | 21.3 | 20.6 | 20.6 | 20.3 | 19.8 | 21.2 | 21.6 | 21.9 | 22.4 | 22.6 | 22.7 | 23.4 | 23.1 | 23.2 | 23.3             | 23.3 | 22.4 |
| 3                          | 23.4 | 22.7 | 23.1 | 22.6 | 22.5 | 24.4 | 24.7 | 21.7 | 19.3 | 19.3 | 18.3 | 20.0 | 22.2 | 22.1 | 21.8 | 22.1 | 22.4 | 21.8 | 22.7 | 23.8 | 23.5 | 22.4 | 20.8             | 22.4 | 22.1 |
| 4                          | 22.7 | 22.6 | 22.8 | 22.7 | 22.5 | 22.7 | 22.4 | 20.6 | 19.3 | 18.7 | 19.3 | 20.8 | 21.8 | 22.3 | 22.4 | 22.1 | 22.4 | 22.6 | 22.6 | 23.7 | 23.6 | 23.4 | 23.7             | 23.7 | 22.1 |
| 5                          | 23.9 | 23.8 | 23.5 | 23.5 | 23.4 | 24.9 | 25.4 | 22.5 | 19.3 | 18.4 | 18.5 | 19.1 | 20.7 | 21.4 | 21.6 | 21.4 | 21.6 | 22.1 | 22.5 | 23.4 | 23.2 | 23.7 | 23.5             | 23.7 | 22.3 |
| 6                          | 23.8 | 24.2 | 24.6 | 24.6 | 23.8 | 23.7 | 24.4 | 23.6 | 21.0 | 19.6 | 19.5 | 20.3 | 21.5 | 22.3 | 22.6 | 23.1 | 22.6 | 24.3 | 27.9 | 26.7 | 28.4 | 25.4 | 24.2             | 23.5 | 23.6 |
| 7                          | 23.5 | 23.6 | 23.4 | 22.6 | 23.4 | 23.7 | 23.6 | 22.5 | 20.3 | 19.5 | 19.6 | 19.9 | 21.4 | 21.6 | 21.5 | 21.6 | 21.5 | 21.0 | 20.7 | 21.5 | 25.0 | 27.0 | 25.2             | 33.7 | 22.8 |
| 8                          | 26.6 | 23.7 | 21.4 | 20.6 | 22.6 | 23.7 | 23.7 | 21.2 | 18.1 | 19.4 | 16.5 | 18.7 | 20.8 | 23.6 | 25.3 | 28.4 | 29.5 | 31.3 | 23.1 | 32.8 | 27.6 | 23.3 | 26.3             | 21.6 | 23.7 |
| 9                          | 23.8 | 22.0 | 23.7 | 23.4 | 22.6 | 24.0 | 24.4 | 22.6 | 20.5 | 20.2 | 20.4 | 21.2 | 22.4 | 23.6 | 23.5 | 22.3 | 23.5 | 25.0 | 24.4 | 24.4 | 25.4 | 21.7 | 19.9             | 24.6 | 22.9 |
| 10                         | 25.5 | 22.5 | 21.6 | 21.2 | 23.4 | 24.6 | 25.3 | 20.9 | 21.2 | 21.6 | 22.6 | 22.0 | 22.8 | 31.4 | 36.5 | 36.6 | 28.2 | 32.6 | 22.1 | 23.7 | 20.7 | 18.4 | 25.5             | 21.4 | 25.0 |
| 11                         | 13.7 | 23.4 | 25.6 | 25.7 | 25.6 | 25.8 | 24.4 | 23.6 | 22.0 | 21.0 | 21.2 | 20.9 | 21.9 | 22.7 | 24.4 | 27.3 | 25.5 | 24.9 | 25.0 | 25.6 | 23.0 | 26.2 | 27.4             | 22.4 | 23.7 |
| 12                         | 21.8 | 23.5 | 23.2 | 22.4 | 23.8 | 24.8 | 25.3 | 23.4 | 21.9 | 21.0 | 22.8 | 21.5 | 23.6 | 27.7 | 28.0 | 28.9 | 24.7 | 23.4 | 25.3 | 24.7 | 24.6 | 24.4 | 24.4             | 24.2 | 24.1 |
| 13                         | 24.3 | 24.4 | 24.6 | 24.8 | 25.4 | 25.4 | 23.6 | 21.6 | 20.5 | 20.3 | 21.6 | 21.7 | 23.4 | 25.5 | 30.3 | 25.7 | 22.6 | 23.4 | 24.0 | 23.9 | 23.4 | 23.6 | 23.8             | 23.5 | 23.8 |
| 14                         | 23.6 | 23.1 | 23.6 | 22.9 | 23.6 | 24.6 | 25.4 | 24.6 | 22.6 | 21.1 | 20.5 | 20.9 | 21.6 | 22.5 | 23.2 | 22.7 | 22.7 | 22.8 | 23.4 | 23.7 | 23.6 | 23.4 | 23.3             | 23.3 | 23.0 |
| 15                         | 23.4 | 22.7 | 22.5 | 22.8 | 24.0 | 25.5 | 25.7 | 24.1 | 21.7 | 19.5 | 18.9 | 19.7 | 21.0 | 22.4 | 22.8 | 22.8 | 22.9 | 23.2 | 23.5 | 23.6 | 23.6 | 23.4 | 23.4             | 23.4 | 22.8 |
| 16                         | 23.4 | 23.4 | 23.0 | 23.2 | 24.4 | 26.1 | 26.5 | 24.6 | 19.4 | 19.4 | 19.5 | 19.8 | 20.8 | 21.6 | 22.4 | 22.5 | 22.7 | 23.3 | 22.8 | 22.6 | 22.6 | 22.6 | 22.5             | 22.6 | 22.6 |
| 17                         | 23.4 | 23.5 | 23.4 | 23.6 | 24.6 | 26.5 | 26.3 | 24.4 | 21.5 | 19.4 | 18.3 | 17.9 | 19.4 | 20.6 | 21.3 | 21.8 | 23.3 | 22.6 | 23.6 | 23.9 | 23.4 | 25.5 | 20.6             | 24.4 | 22.6 |
| 18                         | 23.7 | 24.0 | 24.7 | 24.5 | 25.0 | 25.6 | 24.7 | 23.7 | 20.6 | 18.4 | 18.6 | 19.0 | 20.0 | 21.5 | 22.8 | 25.4 | 25.4 | 25.6 | 23.4 | 23.3 | 23.7 | 24.6 | 26.4             | 24.6 | 23.3 |
| 19                         | 24.4 | 24.3 | 25.2 | 24.7 | 25.6 | 25.8 | 23.9 | 22.3 | 19.5 | 16.9 | 17.4 | 18.5 | 20.0 | 21.7 | 22.6 | 26.6 | 25.0 | 23.3 | 23.7 | 26.0 | 25.4 | 24.6 | 20.6             | 22.2 | 22.9 |
| 20                         | 24.4 | 24.0 | 24.4 | 24.6 | 25.4 | 25.8 | 24.7 | 23.4 | 20.5 | 18.6 | 17.9 | 18.4 | 19.6 | 21.4 | 21.7 | 21.6 | 21.6 | 21.6 | 21.8 | 22.3 | 22.6 | 23.5 | 24.3             | 23.6 | 22.4 |
| 21                         | 23.2 | 22.7 | 22.6 | 22.6 | 23.7 | 25.0 | 23.8 | 22.7 | 20.0 | 18.4 | 18.9 | 20.0 | 21.6 | 23.1 | 23.8 | 23.7 | 23.4 | 23.7 | 24.0 | 23.4 | 23.0 | 22.8 | 23.4             | 22.8 | 22.6 |
| 22                         | 22.7 | 22.8 | 23.1 | 23.6 | 24.9 | 25.7 | 26.0 | 24.1 | 21.5 | 18.8 | 18.5 | 18.4 | 19.4 | 20.1 | 20.5 | 23.2 | 21.3 | 20.8 | 20.8 | 21.4 | 22.0 | 22.0 | 23.0             | 22.6 | 22.0 |
| 23                         | 22.7 | 23.6 | 22.7 | 22.9 | 24.5 | 25.7 | 24.6 | 23.6 | 20.6 | 16.6 | 15.0 | 15.5 | 17.6 | 20.4 | 26.5 | 24.6 | 23.6 | 22.4 | 21.7 | 22.6 | 23.8 | 23.8 | 24.4             | 23.8 | 22.2 |
| 24                         | 24.0 | 23.7 | 23.7 | 23.9 | 24.9 | 25.6 | 25.4 | 23.8 | 21.0 | 18.7 | 17.6 | 18.9 | 20.6 | 22.4 | 23.4 | 23.4 | 22.7 | 23.7 | 25.4 | 23.4 | 22.8 | 22.6 | 22.4             | 21.4 | 22.7 |
| 25                         | 22.6 | 23.0 | 23.4 | 24.0 | 25.6 | 26.5 | 26.4 | 23.5 | 19.9 | 17.4 | 16.6 | 17.6 | 19.8 | 22.4 | 22.7 | 22.1 | 21.7 | 23.4 | 22.5 | 22.7 | 22.6 | 22.5 | 22.4             | 22.4 | 22.2 |
| 26                         | 22.6 | 23.4 | 23.6 | 24.4 | 25.6 | 26.5 | 26.4 | 24.4 | 21.6 | 19.4 | 18.3 | 18.4 | 19.6 | 21.6 | 22.6 | 23.1 | 22.9 | 22.6 | 24.4 | 25.5 | 25.5 | 23.4 | 23.0             | 23.0 | 23.0 |
| 27                         | 23.0 | 23.5 | 23.5 | 23.8 | 25.1 | 25.6 | 25.5 | 24.0 | 20.5 | 18.3 | 17.2 | 18.3 | 19.6 | 22.0 | 23.2 | 24.0 | 23.0 | 22.8 | 23.0 | 23.4 | 23.4 | 23.0 | 23.0             | 22.8 | 22.6 |
| 28                         | 23.0 | 23.4 | 23.2 | 23.8 | 25.0 | 25.6 | 25.5 | 23.6 | 20.6 | 18.1 | 16.7 | 17.1 | 18.5 | 20.4 | 21.4 | 21.5 | 21.6 | 21.6 | 22.6 | 23.0 | 23.0 | 22.5 | 23.0             | 23.0 | 22.0 |
| 29                         | 22.5 | 22.6 | 23.1 | 23.0 | 24.1 | 25.5 | 24.6 | 22.6 | 19.4 | 17.5 | 15.9 | 16.9 | 19.5 | 21.4 | 22.5 | 23.0 | 22.5 | 22.5 | 22.5 | 23.5 | 23.5 | 23.2 | 23.5             | 23.8 | 22.0 |
| 30                         | 24.1 | 24.9 | 24.8 | 24.5 | 25.3 | 26.0 | 26.0 | 24.4 | 21.7 | 19.4 | 17.6 | 18.0 | 20.4 | 21.7 | 22.4 | 22.4 | 22.6 | 22.6 | 22.7 | 22.8 | 22.6 | 22.6 | 22.7             | 22.7 | 22.7 |
| 31                         | 23.0 | 23.4 | 23.4 | 23.5 | 24.8 | 25.7 | 25.6 | 24.4 | 20.6 | 18.2 | 17.5 | 18.7 | 20.6 | 21.6 | 22.0 | 22.4 | 22.4 | 22.6 | 23.0 | 22.6 | 22.9 | 22.4 | 22.2             | 22.4 | 22.3 |
| Среднее<br>по всем<br>дням | 23.3 | 23.4 | 23.6 | 23.5 | 24.3 | 25.1 | 24.8 | 23.1 | 20.5 | 19.1 | 18.7 | 19.3 | 21.0 | 22.5 | 23.5 | 24.0 | 23.6 | 23.6 | 23.3 | 23.9 | 23.7 | 23.4 | 23.4             | 23.4 | 22.8 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал

Горь

Проверил

Вульф

Бедомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Среднемесячи. Ж = 16542  
Элемент Горизонтальная составляющая  
Ж = 16400 + = 0

Месяц Март Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |
| 1                          | 140 | 138 | 134 | 141 | 146 | 144 | 140 | 128 | 120 | 137 | 139 | 132 | 129 | 131 | 134 | 140 | 146 | 141 | 141 | 143 | 148 | 141 | 140               | 138 |
| 2                          | 140 | 140 | 140 | 140 | 142 | 142 | 136 | 137 | 139 | 140 | 140 | 141 | 137 | 140 | 140 | 141 | 140 | 147 | 145 | 146 | 148 | 148 | 148               | 142 |
| 3                          | 144 | 144 | 146 | 148 | 149 | 148 | 138 | 140 | 138 | 132 | 140 | 140 | 137 | 147 | 145 | 144 | 144 | 153 | 150 | 148 | 150 | 148 | 148               | 145 |
| 4                          | 144 | 144 | 147 | 147 | 149 | 142 | 137 | 132 | 131 | 133 | 142 | 148 | 150 | 148 | 143 | 140 | 140 | 139 | 147 | 145 | 146 | 144 | 142               | 142 |
| 5                          | 141 | 141 | 142 | 146 | 147 | 142 | 131 | 128 | 130 | 136 | 142 | 146 | 148 | 142 | 141 | 142 | 140 | 146 | 146 | 147 | 157 | 150 | 146               | 142 |
| 6                          | 142 | 145 | 145 | 144 | 143 | 140 | 139 | 133 | 136 | 139 | 143 | 144 | 143 | 142 | 143 | 142 | 144 | 149 | 148 | 149 | 145 | 143 | 140               | 143 |
| 7                          | 142 | 142 | 142 | 142 | 145 | 140 | 136 | 131 | 132 | 140 | 144 | 149 | 149 | 149 | 150 | 150 | 151 | 161 | 160 | 152 | 151 | 171 | 162               | 148 |
| 8                          | 142 | 137 | 141 | 152 | 143 | 144 | 132 | 110 | 120 | 137 | 145 | 109 | 99  | 122 | 118 | 113 | 122 | 154 | 139 | 132 | 143 | 135 | 140               | 131 |
| 9                          | 140 | 138 | 133 | 139 | 128 | 127 | 132 | 128 | 130 | 137 | 142 | 143 | 140 | 136 | 137 | 140 | 141 | 146 | 143 | 149 | 147 | 140 | 139               | 138 |
| 10                         | 137 | 127 | 131 | 135 | 132 | 131 | 108 | 112 | 113 | 113 | 114 | 123 | 130 | 113 | 137 | 140 | 118 | 135 | 135 | 154 | 156 | 150 | 127               | 131 |
| 11                         | 129 | 145 | 128 | 122 | 114 | 121 | 122 | 119 | 120 | 122 | 132 | 140 | 141 | 141 | 134 | 137 | 140 | 140 | 160 | 154 | 140 | 135 | 131               | 134 |
| 12                         | 134 | 133 | 122 | 137 | 137 | 137 | 130 | 126 | 125 | 131 | 134 | 140 | 140 | 145 | 140 | 149 | 133 | 139 | 147 | 146 | 140 | 139 | 139               | 137 |
| 13                         | 138 | 137 | 137 | 138 | 138 | 136 | 130 | 131 | 132 | 134 | 136 | 137 | 136 | 135 | 135 | 134 | 134 | 143 | 142 | 145 | 144 | 139 | 139               | 137 |
| 14                         | 140 | 139 | 140 | 140 | 142 | 142 | 139 | 139 | 140 | 141 | 143 | 142 | 142 | 140 | 140 | 142 | 143 | 144 | 147 | 144 | 144 | 144 | 144               | 142 |
| 15                         | 146 | 145 | 143 | 142 | 148 | 145 | 136 | 131 | 134 | 140 | 144 | 147 | 147 | 146 | 144 | 143 | 142 | 146 | 144 | 143 | 145 | 145 | 145               | 143 |
| 16                         | 148 | 147 | 148 | 149 | 148 | 142 | 134 | 129 | 134 | 140 | 147 | 150 | 151 | 149 | 146 | 146 | 147 | 148 | 149 | 149 | 149 | 149 | 149               | 146 |
| 17                         | 149 | 149 | 148 | 150 | 152 | 149 | 138 | 134 | 138 | 141 | 145 | 148 | 147 | 149 | 147 | 143 | 136 | 138 | 147 | 155 | 148 | 147 | 142               | 145 |
| 18                         | 142 | 143 | 145 | 146 | 149 | 144 | 130 | 117 | 114 | 120 | 128 | 139 | 140 | 139 | 130 | 120 | 126 | 139 | 142 | 141 | 149 | 139 | 140               | 135 |
| 19                         | 140 | 140 | 140 | 138 | 143 | 136 | 128 | 121 | 126 | 130 | 131 | 137 | 140 | 140 | 140 | 140 | 140 | 142 | 138 | 138 | 139 | 137 | 144               | 137 |
| 20                         | 144 | 143 | 144 | 146 | 141 | 136 | 129 | 126 | 129 | 135 | 138 | 139 | 143 | 147 | 147 | 150 | 151 | 155 | 157 | 157 | 159 | 147 | 148               | 144 |
| 21                         | 148 | 145 | 147 | 148 | 150 | 146 | 132 | 120 | 130 | 141 | 147 | 149 | 148 | 144 | 143 | 144 | 144 | 149 | 148 | 146 | 146 | 145 | 145               | 144 |
| 22                         | 146 | 145 | 146 | 145 | 145 | 141 | 134 | 130 | 131 | 131 | 134 | 138 | 140 | 145 | 147 | 150 | 150 | 158 | 158 | 156 | 155 | 154 | 152               | 145 |
| 23                         | 153 | 152 | 152 | 155 | 157 | 152 | 147 | 134 | 137 | 142 | 132 | 132 | 145 | 137 | 121 | 131 | 140 | 151 | 149 | 147 | 144 | 148 | 141               | 144 |
| 24                         | 144 | 144 | 142 | 143 | 143 | 139 | 132 | 128 | 127 | 131 | 135 | 139 | 139 | 144 | 143 | 142 | 146 | 150 | 148 | 149 | 148 | 151 | 146               | 142 |
| 25                         | 149 | 148 | 149 | 151 | 150 | 142 | 129 | 125 | 125 | 132 | 139 | 147 | 151 | 150 | 142 | 144 | 150 | 152 | 149 | 150 | 150 | 151 | 150               | 145 |
| 26                         | 149 | 150 | 150 | 151 | 150 | 149 | 136 | 129 | 128 | 130 | 133 | 140 | 145 | 149 | 147 | 148 | 144 | 151 | 149 | 147 | 144 | 146 | 146               | 144 |
| 27                         | 147 | 146 | 147 | 147 | 148 | 141 | 132 | 128 | 133 | 141 | 141 | 140 | 141 | 143 | 142 | 144 | 144 | 147 | 146 | 146 | 147 | 146 | 148               | 143 |
| 28                         | 149 | 149 | 150 | 154 | 157 | 157 | 149 | 140 | 139 | 141 | 149 | 157 | 157 | 157 | 155 | 154 | 155 | 159 | 158 | 158 | 158 | 156 | 156               | 153 |
| 29                         | 153 | 151 | 151 | 154 | 157 | 158 | 149 | 143 | 140 | 138 | 138 | 140 | 139 | 147 | 149 | 150 | 153 | 151 | 152 | 150 | 153 | 151 | 148               | 149 |
| 30                         | 149 | 149 | 148 | 149 | 148 | 145 | 141 | 133 | 135 | 138 | 140 | 143 | 145 | 147 | 148 | 150 | 150 | 152 | 153 | 156 | 153 | 151 | 151               | 147 |
| 31                         | 151 | 151 | 151 | 152 | 150 | 148 | 140 | 135 | 139 | 143 | 150 | 148 | 145 | 142 | 141 | 144 | 147 | 149 | 151 | 149 | 159 | 159 | 168               | 148 |
| Среднее<br>по всем<br>дням | 144 | 143 | 143 | 145 | 145 | 142 | 134 | 129 | 130 | 135 | 139 | 141 | 141 | 142 | 141 | 142 | 142 | 148 | 148 | 148 | 149 | 147 | 145               | 142 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал Горин

Проверил Горин

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E  
Месяц Март Год 1963

Элемент Вертикальная сост. Среднемесячн. χ = 49757  
χ = 49465 + = 0

| 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. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |     |
| 1                          | 289 | 290 | 290 | 290 | 288 | 288 | 282 | 282 | 284 | 288 | 291 | 297 | 301 | 301 | 300 | 301 | 301 | 296 | 296 | 295 | 293 | 288 | 290               | 290 | 292 |
| 2                          | 290 | 290 | 290 | 290 | 290 | 288 | 285 | 284 | 284 | 288 | 288 | 289 | 290 | 290 | 292 | 292 | 292 | 292 | 291 | 292 | 292 | 291 | 290               | 290 | 290 |
| 3                          | 290 | 290 | 290 | 288 | 290 | 290 | 285 | 284 | 282 | 283 | 286 | 290 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 292 | 286 | 286               | 286 | 291 |
| 4                          | 287 | 288 | 288 | 287 | 287 | 289 | 288 | 284 | 284 | 290 | 292 | 294 | 295 | 293 | 292 | 294 | 296 | 296 | 296 | 295 | 293 | 292 | 290               | 290 | 291 |
| 5                          | 290 | 290 | 290 | 289 | 290 | 290 | 290 | 283 | 283 | 286 | 290 | 295 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 295 | 289 | 287               | 289 | 291 |
| 6                          | 289 | 290 | 289 | 289 | 289 | 288 | 284 | 280 | 280 | 282 | 286 | 290 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 290 | 290 | 291               | 293 | 290 |
| 7                          | 293 | 292 | 292 | 291 | 290 | 290 | 284 | 282 | 279 | 280 | 285 | 290 | 293 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 283               | 269 | 290 |
| 8                          | 282 | 289 | 288 | 283 | 285 | 288 | 282 | 278 | 279 | 283 | 294 | 307 | 318 | 312 | 314 | 316 | 316 | 312 | 286 | 289 | 282 | 277 | 288               | 287 | 293 |
| 9                          | 290 | 290 | 293 | 296 | 296 | 299 | 291 | 287 | 288 | 290 | 295 | 295 | 301 | 302 | 303 | 301 | 303 | 301 | 299 | 299 | 296 | 292 | 280               | 288 | 295 |
| 10                         | 291 | 290 | 290 | 290 | 295 | 296 | 296 | 296 | 296 | 300 | 307 | 309 | 318 | 326 | 335 | 311 | 311 | 291 | 271 | 284 | 270 | 262 | 266               | 263 | 294 |
| 11                         | 263 | 270 | 277 | 286 | 292 | 292 | 290 | 288 | 286 | 289 | 290 | 296 | 299 | 301 | 303 | 303 | 303 | 301 | 302 | 292 | 282 | 288 | 290               | 289 | 290 |
| 12                         | 286 | 287 | 289 | 293 | 296 | 296 | 292 | 290 | 290 | 290 | 296 | 297 | 303 | 308 | 305 | 303 | 302 | 302 | 301 | 296 | 295 | 296 | 296               | 296 | 296 |
| 13                         | 296 | 296 | 296 | 296 | 296 | 291 | 286 | 286 | 286 | 288 | 291 | 296 | 303 | 309 | 312 | 306 | 303 | 303 | 302 | 302 | 297 | 296 | 296               | 296 | 297 |
| 14                         | 296 | 296 | 296 | 295 | 294 | 292 | 289 | 286 | 285 | 286 | 290 | 296 | 299 | 300 | 300 | 299 | 299 | 298 | 298 | 297 | 297 | 296 | 296               | 296 | 295 |
| 15                         | 296 | 296 | 294 | 296 | 296 | 296 | 292 | 286 | 284 | 290 | 292 | 295 | 296 | 297 | 296 | 296 | 296 | 295 | 294 | 294 | 294 | 294 | 293               | 293 | 294 |
| 16                         | 293 | 292 | 290 | 290 | 294 | 293 | 286 | 280 | 279 | 282 | 289 | 293 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 295 | 294 | 294 | 293               | 292 | 292 |
| 17                         | 291 | 290 | 290 | 290 | 292 | 290 | 283 | 278 | 277 | 280 | 283 | 284 | 290 | 290 | 292 | 292 | 295 | 296 | 296 | 296 | 289 | 284 | 282               | 283 | 288 |
| 18                         | 286 | 288 | 289 | 290 | 290 | 290 | 286 | 284 | 287 | 289 | 294 | 297 | 300 | 304 | 311 | 312 | 309 | 307 | 303 | 301 | 300 | 296 | 296               | 296 | 296 |
| 19                         | 294 | 295 | 296 | 296 | 295 | 294 | 290 | 288 | 288 | 289 | 294 | 297 | 301 | 302 | 302 | 302 | 302 | 302 | 301 | 301 | 300 | 296 | 292               | 290 | 296 |
| 20                         | 292 | 292 | 292 | 295 | 296 | 295 | 291 | 286 | 284 | 286 | 290 | 295 | 299 | 299 | 299 | 296 | 296 | 297 | 297 | 297 | 297 | 290 | 289               | 290 | 293 |
| 21                         | 291 | 292 | 294 | 295 | 296 | 294 | 290 | 284 | 284 | 288 | 296 | 297 | 299 | 299 | 297 | 296 | 296 | 295 | 295 | 293 | 292 | 292 | 292               | 292 | 293 |
| 22                         | 292 | 290 | 290 | 292 | 294 | 290 | 285 | 277 | 277 | 277 | 282 | 284 | 289 | 290 | 290 | 290 | 290 | 290 | 289 | 289 | 288 | 289 | 288               | 288 | 288 |
| 23                         | 288 | 286 | 287 | 288 | 290 | 288 | 283 | 278 | 273 | 273 | 278 | 282 | 291 | 301 | 309 | 307 | 303 | 301 | 297 | 296 | 296 | 296 | 293               | 294 | 291 |
| 24                         | 295 | 293 | 293 | 294 | 293 | 292 | 284 | 280 | 279 | 280 | 286 | 291 | 296 | 296 | 297 | 297 | 297 | 298 | 296 | 296 | 296 | 296 | 290               | 290 | 292 |
| 25                         | 290 | 293 | 293 | 296 | 296 | 296 | 292 | 288 | 284 | 284 | 288 | 291 | 296 | 297 | 296 | 296 | 296 | 294 | 292 | 294 | 293 | 292 | 291               | 290 | 292 |
| 26                         | 290 | 290 | 290 | 292 | 294 | 292 | 288 | 284 | 283 | 285 | 288 | 292 | 296 | 297 | 296 | 296 | 296 | 296 | 295 | 293 | 290 | 293 | 294               | 294 | 292 |
| 27                         | 293 | 292 | 292 | 293 | 293 | 292 | 286 | 280 | 277 | 282 | 285 | 292 | 297 | 298 | 298 | 297 | 296 | 296 | 296 | 296 | 295 | 294 | 294               | 294 | 292 |
| 28                         | 294 | 292 | 293 | 294 | 292 | 290 | 286 | 283 | 280 | 280 | 282 | 288 | 294 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 295 | 294 | 294               | 293 | 292 |
| 29                         | 293 | 292 | 292 | 293 | 295 | 292 | 283 | 277 | 273 | 277 | 283 | 290 | 297 | 299 | 296 | 296 | 296 | 295 | 295 | 295 | 294 | 292 | 292               | 292 | 291 |
| 30                         | 292 | 292 | 290 | 291 | 292 | 293 | 288 | 283 | 282 | 284 | 288 | 292 | 296 | 296 | 296 | 296 | 296 | 296 | 295 | 295 | 293 | 292 | 292               | 291 | 292 |
| 31                         | 290 | 290 | 289 | 289 | 290 | 288 | 283 | 275 | 269 | 274 | 281 | 284 | 290 | 291 | 290 | 290 | 290 | 290 | 289 | 289 | 288 | 286 | 286               | 280 | 286 |
| Среднее<br>по всем<br>дням | 290 | 290 | 291 | 292 | 292 | 292 | 287 | 283 | 282 | 285 | 289 | 293 | 298 | 299 | 300 | 299 | 299 | 297 | 295 | 295 | 293 | 291 | 290               | 289 | 292 |

Бедомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Элемент Склонение Среднемесячн. 10°22.7  
10 = 10° + = 0

Месяц Апрель Год 1963

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |
| 1                          | 25.5 | 26.0 | 25.0 | 24.0 | 24.7 | 22.4 | 22.4 | 22.8 | 21.4 | 20.1 | 18.3 | 19.1 | 19.6 | 21.0 | 21.7 | 21.9 | 22.7 | 23.2 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5              | 22.6 |
| 2                          | 23.5 | 23.7 | 24.7 | 24.5 | 25.9 | 26.9 | 27.0 | 25.2 | 21.8 | 18.5 | 16.9 | 17.8 | 20.0 | 21.5 | 22.6 | 22.0 | 23.0 | 28.4 | 26.3 | 24.6 | 24.3 | 24.0 | 23.4              | 23.4 |
| 3                          | 21.6 | 23.4 | 24.2 | 25.1 | 26.3 | 26.3 | 24.9 | 22.8 | 20.5 | 18.5 | 17.4 | 18.5 | 19.5 | 21.1 | 21.7 | 21.7 | 23.1 | 23.1 | 22.4 | 22.8 | 23.4 | 23.6 | 23.6              | 22.4 |
| 4                          | 24.3 | 24.3 | 24.4 | 24.8 | 25.5 | 24.8 | 23.7 | 22.6 | 19.8 | 17.5 | 16.4 | 17.1 | 17.4 | 19.5 | 22.6 | 21.7 | 20.8 | 22.8 | 27.5 | 24.5 | 23.8 | 23.7 | 21.8              | 22.5 |
| 5                          | 19.9 | 20.2 | 25.8 | 25.4 | 23.9 | 24.0 | 24.0 | 22.9 | 22.5 | 21.2 | 21.5 | 20.0 | 21.7 | 24.5 | 24.4 | 31.4 | 25.6 | 24.3 | 22.6 | 23.9 | 24.2 | 19.5 | 19.5              | 23.3 |
| 6                          | 23.5 | 24.5 | 26.4 | 26.4 | 26.5 | 26.3 | 25.0 | 21.8 | 21.8 | 18.2 | 16.9 | 22.7 | 20.1 | 22.3 | 28.5 | 24.3 | 25.3 | 23.7 | 24.5 | 22.7 | 18.8 | 19.1 | 22.6              | 23.3 |
| 7                          | 24.5 | 23.5 | 23.5 | 24.0 | 26.5 | 27.4 | 26.6 | 25.1 | 21.9 | 21.4 | 19.0 | 19.2 | 21.7 | 22.7 | 23.4 | 28.2 | 28.2 | 22.7 | 22.4 | 22.8 | 22.8 | 22.9 | 18.6              | 23.4 |
| 8                          | 22.7 | 24.3 | 24.6 | 25.9 | 27.1 | 27.4 | 26.0 | 24.3 | 22.5 | 20.6 | 19.3 | 19.4 | 20.3 | 21.4 | 21.9 | 21.8 | 23.0 | 25.0 | 21.8 | 23.8 | 23.5 | 23.8 | 23.4              | 23.2 |
| 9                          | 24.0 | 24.0 | 24.0 | 25.2 | 26.0 | 25.8 | 26.6 | 26.0 | 23.3 | 19.8 | 18.3 | 19.0 | 19.5 | 21.6 | 23.0 | 22.8 | 24.7 | 24.7 | 23.3 | 22.8 | 22.4 | 23.4 | 23.4              | 23.4 |
| 10                         | 23.5 | 23.7 | 24.3 | 25.2 | 26.3 | 27.3 | 26.8 | 24.5 | 21.3 | 19.0 | 17.7 | 18.3 | 19.7 | 21.8 | 22.2 | 22.8 | 23.4 | 23.5 | 23.4 | 22.8 | 23.1 | 23.1 | 23.3              | 22.9 |
| 11                         | 23.6 | 23.7 | 23.8 | 24.3 | 25.5 | 26.4 | 26.6 | 25.0 | 21.4 | 16.5 | 15.2 | 15.3 | 17.3 | 20.2 | 21.8 | 22.4 | 22.7 | 22.3 | 22.5 | 22.7 | 22.7 | 22.7 | 23.5              | 22.1 |
| 12                         | 21.0 | 22.5 | 24.6 | 25.5 | 27.1 | 28.1 | 27.9 | 25.4 | 21.2 | 15.7 | 14.2 | 14.6 | 17.0 | 19.6 | 21.5 | 22.5 | 22.0 | 24.0 | 24.8 | 27.8 | 26.8 | 24.9 | 23.8              | 22.7 |
| 13                         | 24.0 | 24.2 | 24.9 | 25.0 | 27.1 | 28.7 | 27.7 | 25.0 | 21.8 | 18.7 | 16.0 | 13.0 | 13.7 | 17.6 | 20.0 | 20.3 | 24.1 | 28.4 | 27.4 | 25.6 | 29.4 | 28.4 | 27.4              | 23.5 |
| 14                         | 22.6 | 24.8 | 27.3 | 27.7 | 27.8 | 27.8 | 26.6 | 24.5 | 21.3 | 18.3 | 17.2 | 17.3 | 19.7 | 21.6 | 21.0 | 24.8 | 23.7 | 22.4 | 23.5 | 24.4 | 19.5 | 24.2 | 23.5              | 23.1 |
| 15                         | 21.9 | 22.1 | 20.7 | 23.7 | 25.6 | 26.5 | 25.1 | 23.5 | 18.8 | 16.0 | 15.1 | 15.9 | 19.3 | 22.6 | 22.0 | 22.7 | 22.8 | 22.8 | 22.8 | 22.7 | 23.7 | 23.6 | 23.5              | 22.0 |
| 16                         | 22.5 | 24.4 | 25.3 | 25.7 | 27.4 | 27.5 | 26.5 | 24.6 | 21.0 | 17.1 | 15.4 | 16.7 | 18.1 | 20.2 | 21.5 | 22.2 | 22.5 | 22.8 | 22.8 | 22.3 | 23.5 | 24.5 | 25.4              | 22.7 |
| 17                         | 25.0 | 25.4 | 26.2 | 25.5 | 26.7 | 27.7 | 26.8 | 24.4 | 21.9 | 19.4 | 17.1 | 17.7 | 18.6 | 19.8 | 20.9 | 21.4 | 21.8 | 24.2 | 23.7 | 22.8 | 22.6 | 24.2 | 24.2              | 23.1 |
| 18                         | 25.6 | 26.4 | 25.7 | 26.0 | 26.2 | 26.9 | 26.5 | 24.6 | 21.8 | 18.9 | 16.2 | 16.2 | 17.4 | 17.7 | 20.1 | 20.9 | 21.2 | 28.7 | 26.4 | 27.4 | 23.4 | 27.3 | 25.4              | 23.3 |
| 19                         | 22.0 | 24.6 | 26.4 | 27.3 | 28.4 | 28.6 | 25.6 | 22.4 | 19.7 | 18.4 | 17.4 | 18.3 | 19.3 | 19.5 | 19.4 | 19.3 | 20.6 | 23.4 | 21.3 | 22.4 | 22.4 | 23.3 | 22.4              | 22.4 |
| 20                         | 19.8 | 24.9 | 25.6 | 26.1 | 26.3 | 26.0 | 25.6 | 24.5 | 20.9 | 18.4 | 17.7 | 18.4 | 19.3 | 22.3 | 23.6 | 27.2 | 24.8 | 23.3 | 23.4 | 23.9 | 24.3 | 24.5 | 24.7              | 23.3 |
| 21                         | 24.5 | 24.9 | 25.5 | 26.4 | 26.8 | 27.3 | 25.4 | 22.5 | 19.7 | 18.3 | 17.6 | 19.1 | 21.7 | 23.2 | 23.3 | 22.6 | 22.4 | 25.0 | 23.0 | 22.6 | 22.6 | 22.7 | 22.7              | 23.0 |
| 22                         | 23.5 | 20.8 | 22.4 | 25.5 | 28.0 | 28.8 | 28.4 | 25.5 | 22.0 | 18.7 | 16.6 | 16.7 | 18.5 | 20.0 | 21.3 | 23.1 | 23.2 | 24.9 | 24.7 | 25.6 | 24.7 | 23.3 | 22.7              | 23.0 |
| 23                         | 23.3 | 23.6 | 24.3 | 24.9 | 25.1 | 25.6 | 24.8 | 22.6 | 19.4 | 16.9 | 15.9 | 17.0 | 19.4 | 21.6 | 23.4 | 24.0 | 23.5 | 23.3 | 23.0 | 22.8 | 23.5 | 23.8 | 24.3              | 22.5 |
| 24                         | 24.3 | 24.7 | 25.4 | 26.6 | 27.3 | 27.3 | 26.4 | 24.6 | 22.0 | 19.5 | 18.5 | 18.5 | 19.0 | 20.3 | 21.2 | 21.5 | 21.5 | 21.6 | 22.2 | 22.2 | 23.0 | 23.0 | 23.3              | 22.7 |
| 25                         | 22.5 | 23.6 | 25.0 | 26.0 | 26.4 | 26.4 | 25.2 | 22.2 | 18.4 | 14.6 | 13.7 | 15.2 | 17.7 | 19.5 | 20.7 | 21.0 | 21.7 | 22.8 | 24.3 | 23.4 | 23.5 | 25.0 | 23.6              | 21.8 |
| 26                         | 22.2 | 24.5 | 26.0 | 27.2 | 25.8 | 25.7 | 25.0 | 21.5 | 18.1 | 16.0 | 15.5 | 16.9 | 18.8 | 20.5 | 21.5 | 21.8 | 21.9 | 22.2 | 23.2 | 22.3 | 21.3 | 25.1 | 25.0              | 22.1 |
| 27                         | 25.5 | 26.6 | 27.6 | 28.1 | 28.3 | 27.9 | 25.5 | 22.8 | 19.2 | 15.2 | 14.4 | 14.6 | 17.5 | 19.0 | 20.0 | 20.6 | 20.7 | 24.2 | 28.5 | 25.5 | 23.7 | 23.8 | 24.4              | 22.7 |
| 28                         | 24.6 | 25.3 | 26.1 | 26.5 | 26.5 | 25.8 | 23.4 | 20.7 | 17.8 | 14.8 | 14.5 | 15.4 | 17.1 | 18.7 | 19.6 | 20.0 | 21.0 | 21.3 | 21.3 | 22.0 | 22.1 | 22.0 | 22.7              | 21.4 |
| 29                         | 24.0 | 24.8 | 25.7 | 26.1 | 25.0 | 24.3 | 23.5 | 21.7 | 19.0 | 17.0 | 16.3 | 16.7 | 17.5 | 18.4 | 19.7 | 20.5 | 20.6 | 21.5 | 21.5 | 21.6 | 22.6 | 22.6 | 23.2              | 21.4 |
| 30                         | 23.6 | 24.7 | 26.0 | 26.8 | 27.2 | 27.2 | 25.5 | 22.5 | 19.3 | 16.6 | 16.0 | 15.5 | 15.5 | 17.2 | 18.5 | 15.5 | 13.3 | 17.4 | 21.2 | 29.7 | 28.8 | 23.5 | 24.6              | 21.4 |
| 31                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |
| Среднее<br>по всем<br>дням | 23.3 | 24.1 | 25.0 | 25.7 | 26.4 | 26.6 | 25.7 | 23.6 | 20.7 | 18.0 | 16.7 | 17.3 | 18.7 | 20.6 | 21.8 | 22.4 | 22.5 | 23.8 | 23.7 | 23.8 | 23.4 | 23.6 | 23.5              | 22.7 |

Условные обозначения: Δ — погасла лампа; > или < — запись вышла за бумагу; □ — остановились часы; / — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал Тор Проверил Тор

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Вайкине) Широта 55°50'N Долгота 48°51'E

Среднемесячи. И = 16545

Элемент Горизонтальная составляющая

И = 16400 + =

Месяц Апрель Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 155 | 144 | 143 | 149 | 152 | 139 | 143 | 140 | 132 | 130 | 133 | 136 | 136 | 134 | 139 | 139 | 141 | 141 | 142 | 142 | 142 | 146 | 145               | 145 | 141 |
| 2                          | 146 | 146 | 142 | 147 | 147 | 141 | 130 | 123 | 123 | 129 | 137 | 143 | 146 | 146 | 142 | 143 | 147 | 152 | 153 | 142 | 142 | 143 | 141               | 141 | 141 |
| 3                          | 138 | 143 | 147 | 149 | 143 | 138 | 130 | 127 | 126 | 131 | 143 | 146 | 148 | 146 | 145 | 149 | 148 | 148 | 148 | 149 | 150 | 150 | 152               | 152 | 144 |
| 4                          | 152 | 151 | 151 | 152 | 151 | 149 | 150 | 139 | 141 | 143 | 154 | 155 | 161 | 141 | 137 | 131 | 138 | 153 | 159 | 203 | 154 | 151 | 155               | 147 | 151 |
| 5                          | 167 | 143 | 138 | 140 | 117 | 117 | 125 | 122 | 117 | 119 | 119 | 129 | 130 | 140 | 133 | 144 | 140 | 148 | 164 | 160 | 150 | 148 | 143               | 137 | 137 |
| 6                          | 138 | 137 | 137 | 136 | 133 | 128 | 121 | 119 | 97  | 128 | 133 | 132 | 144 | 140 | 140 | 146 | 138 | 138 | 145 | 149 | 153 | 149 | 148               | 146 | 136 |
| 7                          | 141 | 142 | 147 | 148 | 148 | 148 | 138 | 127 | 132 | 120 | 139 | 140 | 133 | 140 | 143 | 136 | 147 | 141 | 145 | 148 | 149 | 148 | 145               | 138 | 141 |
| 8                          | 142 | 143 | 143 | 141 | 140 | 137 | 133 | 131 | 130 | 130 | 131 | 137 | 140 | 144 | 148 | 149 | 148 | 149 | 156 | 157 | 150 | 149 | 148               | 149 | 143 |
| 9                          | 150 | 150 | 150 | 148 | 132 | 136 | 133 | 129 | 129 | 131 | 139 | 140 | 146 | 144 | 149 | 150 | 149 | 157 | 151 | 147 | 147 | 149 | 146               | 144 | 144 |
| 10                         | 144 | 144 | 146 | 145 | 144 | 141 | 136 | 132 | 130 | 130 | 134 | 137 | 141 | 145 | 148 | 149 | 150 | 150 | 149 | 148 | 152 | 149 | 151               | 152 | 144 |
| 11                         | 152 | 153 | 153 | 155 | 153 | 151 | 143 | 133 | 128 | 133 | 131 | 144 | 151 | 151 | 151 | 150 | 149 | 151 | 152 | 151 | 154 | 152 | 151               | 148 | 148 |
| 12                         | 154 | 161 | 159 | 159 | 158 | 155 | 143 | 133 | 124 | 124 | 121 | 137 | 152 | 159 | 150 | 147 | 153 | 151 | 152 | 158 | 152 | 145 | 141               | 143 | 147 |
| 13                         | 143 | 144 | 144 | 142 | 142 | 142 | 138 | 129 | 121 | 117 | 119 | 120 | 122 | 129 | 140 | 131 | 140 | 144 | 137 | 130 | 140 | 144 | 138               | 139 | 135 |
| 14                         | 140 | 140 | 140 | 140 | 138 | 132 | 123 | 118 | 115 | 115 | 121 | 131 | 130 | 140 | 130 | 114 | 123 | 137 | 144 | 143 | 158 | 150 | 145               | 139 | 134 |
| 15                         | 147 | 143 | 124 | 141 | 140 | 132 | 118 | 99  | 104 | 110 | 122 | 128 | 134 | 139 | 136 | 140 | 144 | 144 | 149 | 154 | 149 | 141 | 143               | 140 | 134 |
| 16                         | 136 | 141 | 140 | 143 | 140 | 138 | 128 | 122 | 120 | 123 | 130 | 139 | 151 | 153 | 153 | 156 | 154 | 150 | 149 | 152 | 157 | 156 | 152               | 148 | 143 |
| 17                         | 145 | 143 | 142 | 146 | 143 | 136 | 130 | 127 | 124 | 133 | 141 | 144 | 147 | 149 | 150 | 153 | 157 | 156 | 152 | 157 | 156 | 156 | 152               | 150 | 145 |
| 18                         | 149 | 148 | 149 | 149 | 147 | 143 | 137 | 129 | 122 | 124 | 137 | 146 | 146 | 150 | 153 | 161 | 154 | 152 | 163 | 150 | 151 | 164 | 144               | 142 | 146 |
| 19                         | 142 | 148 | 147 | 150 | 147 | 134 | 136 | 126 | 134 | 140 | 148 | 148 | 146 | 150 | 152 | 160 | 159 | 151 | 158 | 153 | 151 | 150 | 150               | 153 | 147 |
| 20                         | 155 | 156 | 156 | 154 | 147 | 147 | 131 | 122 | 123 | 130 | 137 | 144 | 151 | 142 | 136 | 139 | 140 | 146 | 151 | 150 | 149 | 149 | 148               | 149 | 144 |
| 21                         | 148 | 148 | 148 | 147 | 140 | 134 | 137 | 138 | 140 | 147 | 150 | 156 | 148 | 143 | 139 | 146 | 148 | 151 | 150 | 148 | 148 | 147 | 148               | 149 | 146 |
| 22                         | 146 | 144 | 147 | 147 | 142 | 134 | 126 | 122 | 127 | 136 | 140 | 149 | 149 | 148 | 149 | 148 | 150 | 151 | 150 | 148 | 158 | 153 | 149               | 149 | 144 |
| 23                         | 145 | 144 | 141 | 130 | 132 | 129 | 123 | 124 | 117 | 123 | 133 | 133 | 136 | 131 | 131 | 138 | 141 | 144 | 146 | 146 | 146 | 146 | 144               | 143 | 136 |
| 24                         | 144 | 145 | 146 | 146 | 141 | 136 | 131 | 130 | 129 | 134 | 142 | 144 | 149 | 149 | 147 | 148 | 149 | 157 | 159 | 157 | 157 | 156 | 157               | 153 | 146 |
| 25                         | 155 | 155 | 159 | 153 | 149 | 143 | 134 | 130 | 130 | 139 | 146 | 150 | 154 | 155 | 156 | 158 | 157 | 160 | 161 | 159 | 156 | 158 | 153               | 150 | 151 |
| 26                         | 152 | 154 | 157 | 149 | 139 | 132 | 130 | 135 | 136 | 141 | 147 | 151 | 155 | 154 | 157 | 158 | 156 | 158 | 157 | 156 | 159 | 168 | 162               | 163 | 151 |
| 27                         | 163 | 164 | 167 | 165 | 159 | 145 | 138 | 131 | 127 | 137 | 142 | 154 | 140 | 133 | 145 | 149 | 152 | 159 | 162 | 156 | 154 | 152 | 150               | 150 | 150 |
| 28                         | 153 | 153 | 153 | 152 | 150 | 145 | 142 | 143 | 148 | 150 | 152 | 155 | 158 | 159 | 161 | 162 | 160 | 163 | 165 | 160 | 159 | 157 | 157               | 157 | 155 |
| 29                         | 159 | 161 | 162 | 160 | 152 | 149 | 142 | 143 | 147 | 149 | 152 | 154 | 156 | 158 | 158 | 158 | 159 | 162 | 161 | 162 | 166 | 161 | 160               | 160 | 156 |
| 30                         | 160 | 159 | 159 | 157 | 151 | 147 | 140 | 139 | 143 | 150 | 155 | 160 | 164 | 159 | 159 | 182 | 205 | 230 | 189 | 190 | 132 | 136 | 152               | 149 | 161 |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |     |
| Среднее<br>по всем<br>дням | 149 | 148 | 148 | 148 | 144 | 139 | 134 | 129 | 127 | 132 | 138 | 143 | 145 | 146 | 146 | 148 | 150 | 153 | 154 | 154 | 151 | 151 | 149               | 148 | 145 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные  
обозначения записи. Величины, взятые приближенно с магнитогаммы — ( )

Обработал Торж Проверил Торж

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Среднемесячи. Σ = 49760

Элемент Вертикальная составляющая

Σ = 49465 + = 0

Месяц Апрель Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |
| 1                          | 281 | 283 | 283 | 284 | 285 | 286 | 284 | 281 | 281 | 284 | 286 | 291 | 295 | 298 | 297 | 296 | 296 | 296 | 296 | 295 | 294 | 294 | 293               | 290 |
| 2                          | 293 | 292 | 292 | 293 | 293 | 289 | 285 | 283 | 280 | 280 | 285 | 286 | 292 | 292 | 292 | 290 | 292 | 292 | 287 | 288 | 290 | 290 | 291               | 289 |
| 3                          | 291 | 291 | 291 | 291 | 291 | 287 | 280 | 278 | 277 | 280 | 285 | 289 | 295 | 298 | 296 | 295 | 297 | 298 | 297 | 297 | 296 | 296 | 295               | 291 |
| 4                          | 295 | 294 | 293 | 295 | 293 | 288 | 283 | 276 | 273 | 276 | 281 | 285 | 293 | 298 | 306 | 307 | 305 | 303 | 303 | 282 | 284 | 289 | 292               | 289 |
| 5                          | 276 | 273 | 283 | 292 | 293 | 298 | 291 | 291 | 289 | 295 | 300 | 304 | 312 | 318 | 315 | 315 | 311 | 309 | 293 | 289 | 294 | 293 | 289               | 296 |
| 6                          | 293 | 298 | 300 | 302 | 302 | 301 | 295 | 287 | 287 | 291 | 297 | 308 | 306 | 306 | 307 | 303 | 306 | 304 | 300 | 299 | 293 | 289 | 287               | 289 |
| 7                          | 292 | 295 | 295 | 295 | 295 | 294 | 289 | 283 | 283 | 287 | 293 | 295 | 299 | 300 | 300 | 306 | 302 | 299 | 299 | 297 | 297 | 296 | 294               | 291 |
| 8                          | 291 | 293 | 295 | 296 | 297 | 296 | 293 | 289 | 287 | 288 | 293 | 299 | 302 | 302 | 302 | 300 | 301 | 301 | 299 | 297 | 297 | 299 | 299               | 296 |
| 9                          | 298 | 298 | 298 | 299 | 299 | 299 | 293 | 288 | 285 | 281 | 280 | 284 | 290 | 297 | 299 | 298 | 298 | 297 | 293 | 294 | 295 | 293 | 293               | 294 |
| 10                         | 294 | 294 | 294 | 296 | 298 | 297 | 291 | 283 | 280 | 281 | 287 | 296 | 304 | 305 | 304 | 303 | 302 | 302 | 302 | 302 | 300 | 300 | 300               | 299 |
| 11                         | 299 | 299 | 298 | 299 | 299 | 298 | 293 | 286 | 280 | 280 | 284 | 291 | 298 | 299 | 299 | 296 | 296 | 296 | 296 | 295 | 295 | 294 | 293               | 294 |
| 12                         | 293 | 287 | 291 | 293 | 293 | 293 | 286 | 280 | 280 | 278 | 281 | 285 | 291 | 299 | 302 | 299 | 299 | 299 | 299 | 297 | 295 | 293 | 296               | 298 |
| 13                         | 297 | 299 | 299 | 299 | 299 | 296 | 290 | 283 | 280 | 282 | 289 | 296 | 303 | 306 | 309 | 312 | 312 | 312 | 308 | 306 | 306 | 299 | 296               | 296 |
| 14                         | 294 | 294 | 297 | 297 | 296 | 293 | 287 | 285 | 285 | 286 | 293 | 296 | 306 | 314 | 322 | 331 | 322 | 313 | 306 | 304 | 297 | 292 | 292               | 286 |
| 15                         | 283 | 286 | 289 | 293 | 293 | 293 | 291 | 293 | 293 | 286 | 289 | 296 | 306 | 310 | 306 | 301 | 300 | 300 | 300 | 296 | 295 | 295 | 297               | 296 |
| 16                         | 295 | 295 | 296 | 297 | 297 | 297 | 293 | 291 | 291 | 288 | 289 | 293 | 299 | 300 | 302 | 303 | 304 | 304 | 304 | 303 | 299 | 297 | 299               | 299 |
| 17                         | 299 | 298 | 300 | 301 | 302 | 301 | 297 | 293 | 289 | 287 | 289 | 292 | 295 | 299 | 299 | 299 | 300 | 301 | 300 | 297 | 298 | 297 | 296               | 295 |
| 18                         | 295 | 297 | 295 | 293 | 293 | 293 | 291 | 285 | 280 | 280 | 287 | 294 | 298 | 298 | 300 | 301 | 306 | 306 | 299 | 297 | 294 | 281 | 287               | 293 |
| 19                         | 296 | 296 | 299 | 299 | 298 | 298 | 293 | 286 | 283 | 283 | 284 | 288 | 293 | 295 | 295 | 295 | 296 | 299 | 297 | 297 | 297 | 297 | 297               | 294 |
| 20                         | 293 | 293 | 294 | 294 | 297 | 298 | 296 | 291 | 288 | 291 | 295 | 299 | 305 | 309 | 312 | 314 | 312 | 310 | 306 | 306 | 304 | 304 | 303               | 302 |
| 21                         | 304 | 304 | 304 | 303 | 302 | 301 | 296 | 290 | 289 | 289 | 293 | 300 | 305 | 306 | 302 | 302 | 301 | 301 | 301 | 301 | 300 | 300 | 300               | 299 |
| 22                         | 299 | 296 | 293 | 298 | 298 | 299 | 295 | 292 | 288 | 292 | 293 | 295 | 298 | 299 | 299 | 299 | 299 | 300 | 300 | 300 | 296 | 283 | 293               | 296 |
| 23                         | 297 | 299 | 297 | 299 | 298 | 299 | 298 | 294 | 293 | 293 | 296 | 303 | 304 | 306 | 306 | 304 | 302 | 302 | 301 | 301 | 301 | 301 | 301               | 300 |
| 24                         | 301 | 301 | 301 | 301 | 301 | 300 | 295 | 288 | 283 | 285 | 289 | 291 | 295 | 295 | 297 | 297 | 297 | 297 | 297 | 297 | 298 | 297 | 295               | 296 |
| 25                         | 296 | 296 | 296 | 296 | 295 | 295 | 291 | 283 | 280 | 285 | 292 | 295 | 295 | 295 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 295               | 297 |
| 26                         | 298 | 298 | 299 | 299 | 300 | 299 | 294 | 283 | 278 | 283 | 288 | 293 | 295 | 297 | 299 | 299 | 297 | 297 | 298 | 299 | 297 | 290 | 290               | 292 |
| 27                         | 293 | 295 | 295 | 294 | 293 | 293 | 294 | 294 | 296 | 304 | 307 | 308 | 314 | 312 | 310 | 310 | 308 | 308 | 308 | 302 | 302 | 302 | 304               | 304 |
| 28                         | 304 | 304 | 302 | 299 | 298 | 298 | 293 | 286 | 282 | 282 | 285 | 288 | 294 | 297 | 297 | 297 | 295 | 297 | 297 | 297 | 297 | 297 | 297               | 298 |
| 29                         | 298 | 298 | 298 | 295 | 292 | 289 | 288 | 286 | 278 | 279 | 285 | 288 | 290 | 294 | 295 | 295 | 295 | 295 | 295 | 295 | 293 | 293 | 293               | 294 |
| 30                         | 295 | 295 | 295 | 293 | 291 | 289 | 287 | 283 | 278 | 276 | 280 | 283 | 287 | 291 | 291 | 290 | 291 | 290 | 293 | 298 | 278 | 289 | 294               | 295 |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |
| Среднее<br>по всем<br>дням | 294 | 295 | 295 | 296 | 296 | 295 | 291 | 286 | 284 | 285 | 289 | 294 | 299 | 301 | 302 | 302 | 301 | 301 | 299 | 298 | 296 | 295 | 295               | 295 |

Ведомство Министерство Высшего Образования  
Обсерватория Жазанская (Займище) Широта 55°50'N Долгота 48°51'E

Элемент Склонение Среднемесячн. 0 = 10°22.6

Месяц Май Год 1963

0 = 10° + = 0

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |
| 1                          | 26.4 | 26.5 | 24.0 | 22.4 | 29.0 | 29.7 | 27.7 | 24.4 | 22.6 | 20.0 | 18.4 | 18.5 | 19.9 | 24.6 | 22.8 | 23.6 | 31.0 | 24.5 | 23.5 | 23.4 | 24.0 | 18.4 | 22.7              | 23.9 |
| 2                          | 25.9 | 24.6 | 23.6 | 26.5 | 26.9 | 26.4 | 26.5 | 23.0 | 19.4 | 16.5 | 19.5 | 20.0 | 21.5 | 21.7 | 26.6 | 24.5 | 25.5 | 23.4 | 24.6 | 22.9 | 22.8 | 17.9 | 23.4              | 23.2 |
| 3                          | 23.6 | 26.5 | 25.9 | 26.6 | 26.8 | 26.6 | 23.4 | 20.0 | 18.4 | 17.6 | 17.5 | 18.5 | 20.4 | 21.9 | 21.6 | 22.4 | 26.4 | 23.5 | 23.1 | 24.3 | 25.3 | 24.4 | 24.3              | 23.1 |
| 4                          | 24.7 | 22.6 | 22.7 | 26.6 | 27.7 | 28.7 | 27.4 | 24.6 | 22.4 | 20.4 | 20.1 | 19.6 | 20.4 | 21.4 | 23.9 | 24.6 | 24.7 | 24.4 | 25.5 | 23.6 | 24.2 | 20.6 | 21.5              | 23.6 |
| 5                          | 22.5 | 25.4 | 26.5 | 27.6 | 26.7 | 25.9 | 25.7 | 23.7 | 20.4 | 17.9 | 17.8 | 18.6 | 20.9 | 21.9 | 22.5 | 22.7 | 23.9 | 23.4 | 23.4 | 22.4 | 23.4 | 24.3 | 24.2              | 23.2 |
| 6                          | 24.6 | 25.5 | 24.5 | 24.7 | 24.3 | 23.4 | 24.0 | 22.0 | 19.4 | 16.6 | 15.2 | 17.6 | 20.1 | 21.6 | 23.6 | 24.2 | 23.3 | 22.6 | 23.0 | 23.6 | 24.6 | 23.8 | 24.0              | 22.5 |
| 7                          | 24.6 | 25.4 | 26.0 | 27.0 | 27.6 | 27.0 | 25.3 | 21.6 | 18.4 | 15.7 | 16.6 | 17.4 | 19.6 | 20.9 | 21.0 | 21.7 | 22.4 | 23.6 | 24.6 | 24.5 | 24.4 | 23.5 | 22.4              | 22.6 |
| 8                          | 21.9 | 24.6 | 26.7 | 27.9 | 28.5 | 28.4 | 26.8 | 23.6 | 20.7 | 17.6 | 16.4 | 15.5 | 17.8 | 21.3 | 23.4 | 22.7 | 22.4 | 22.2 | 22.0 | 22.7 | 20.5 | 22.5 | 24.6              | 22.6 |
| 9                          | 24.3 | 25.5 | 26.7 | 26.5 | 26.9 | 27.4 | 27.6 | 22.7 | 19.3 | 16.4 | 15.4 | 16.5 | 19.4 | 21.7 | 21.7 | 22.7 | 22.6 | 22.4 | 22.4 | 25.1 | 23.6 | 23.7 | 20.7              | 22.7 |
| 10                         | 25.4 | 26.5 | 25.6 | 25.8 | 28.4 | 27.7 | 25.4 | 21.5 | 16.0 | 14.3 | 13.7 | 15.9 | 17.7 | 19.4 | 21.0 | 22.4 | 24.6 | 22.7 | 22.6 | 22.6 | 24.4 | 24.7 | 25.7              | 22.3 |
| 11                         | 26.0 | 23.7 | 25.4 | 28.4 | 29.4 | 29.4 | 27.7 | 25.2 | 19.3 | 15.7 | 16.7 | 18.3 | 21.7 | 21.6 | 21.2 | 23.5 | 22.3 | 22.0 | 23.5 | 21.8 | 23.0 | 23.4 | 23.6              | 23.1 |
| 12                         | 26.7 | 23.7 | 26.9 | 29.6 | 29.4 | 28.6 | 26.6 | 22.4 | 18.4 | 13.8 | 11.6 | 14.6 | 18.4 | 18.5 | 20.1 | 20.7 | 21.6 | 21.6 | 22.7 | 20.7 | 22.7 | 24.3 | 24.7              | 22.0 |
| 13                         | 23.0 | 21.6 | 24.7 | 27.0 | 28.6 | 27.7 | 23.7 | 23.4 | 19.0 | 15.3 | 16.0 | 19.6 | 22.5 | 22.3 | 25.4 | 23.8 | 23.3 | 21.5 | 20.4 | 23.7 | 21.4 | 21.6 | 24.7              | 22.6 |
| 14                         | 23.6 | 27.4 | 30.0 | 30.5 | 27.0 | 26.6 | 28.4 | 24.3 | 19.8 | 18.5 | 16.9 | 17.5 | 18.9 | 20.9 | 22.6 | 23.4 | 23.7 | 22.6 | 22.9 | 23.2 | 22.4 | 20.4 | 23.4              | 23.3 |
| 15                         | 24.9 | 27.4 | 28.9 | 30.3 | 30.3 | 29.0 | 26.5 | 24.0 | 19.4 | 15.7 | 14.8 | 16.6 | 19.4 | 22.5 | 23.5 | 23.7 | 23.2 | 24.1 | 24.6 | 23.7 | 23.4 | 24.4 | 25.6              | 23.7 |
| 16                         | 25.5 | 24.6 | 26.1 | 27.8 | 29.4 | 29.4 | 27.4 | 23.6 | 20.0 | 17.5 | 16.4 | 17.4 | 18.4 | 20.5 | 22.3 | 22.4 | 22.5 | 22.4 | 22.6 | 23.4 | 23.6 | 24.4 | 24.6              | 23.1 |
| 17                         | 25.6 | 26.0 | 26.7 | 26.7 | 27.4 | 26.9 | 25.4 | 23.5 | 21.3 | 17.0 | 14.4 | 15.1 | 16.6 | 16.3 | 18.3 | 20.3 | 20.6 | 23.1 | 22.8 | 23.0 | 23.5 | 24.0 | 24.4              | 22.1 |
| 18                         | 24.8 | 26.1 | 27.4 | 28.5 | 29.4 | 29.5 | 27.3 | 23.0 | 19.7 | 18.4 | 17.8 | 18.4 | 18.6 | 19.2 | 19.4 | 19.8 | 21.1 | 22.1 | 22.7 | 22.8 | 23.5 | 23.5 | 24.0              | 22.9 |
| 19                         | 24.3 | 25.5 | 27.3 | 27.5 | 27.1 | 26.0 | 24.4 | 21.7 | 19.4 | 16.7 | 16.5 | 16.5 | 17.5 | 19.5 | 20.2 | 20.6 | 22.5 | 22.7 | 22.4 | 24.0 | 27.5 | 26.5 | 23.5              | 22.6 |
| 20                         | 27.7 | 29.0 | 27.5 | 25.4 | 24.5 | 24.7 | 23.6 | 22.4 | 20.4 | 17.4 | 15.9 | 16.7 | 19.0 | 21.1 | 22.5 | 22.6 | 22.5 | 21.7 | 21.7 | 22.5 | 22.7 | 22.6 | 22.7              | 22.4 |
| 21                         | 23.5 | 24.9 | 26.0 | 26.6 | 27.4 | 26.7 | 24.6 | 21.6 | 18.7 | 16.7 | 15.9 | 16.7 | 18.4 | 19.0 | 19.5 | 20.4 | 20.6 | 21.6 | 23.7 | 25.5 | 24.6 | 23.9 | 23.5              | 22.1 |
| 22                         | 24.4 | 25.3 | 26.3 | 27.2 | 28.2 | 27.7 | 26.0 | 23.0 | 18.5 | 15.4 | 13.4 | 14.4 | 16.5 | 18.5 | 20.4 | 21.5 | 21.5 | 21.6 | 22.4 | 22.6 | 22.7 | 23.0 | 23.5              | 21.9 |
| 23                         | 23.7 | 25.4 | 27.5 | 28.4 | 28.5 | 27.6 | 24.7 | 22.2 | 17.7 | 14.7 | 13.7 | 13.9 | 15.6 | 18.1 | 20.2 | 21.6 | 22.0 | 21.7 | 22.4 | 21.9 | 22.4 | 22.6 | 22.8              | 21.7 |
| 24                         | 24.3 | 25.7 | 27.7 | 29.4 | 28.9 | 27.4 | 24.8 | 21.6 | 18.3 | 15.4 | 14.4 | 14.4 | 16.3 | 18.6 | 20.6 | 21.6 | 21.3 | 20.6 | 20.6 | 20.6 | 21.5 | 22.4 | 22.8              | 21.6 |
| 25                         | 23.6 | 24.7 | 26.7 | 27.9 | 28.4 | 27.5 | 24.4 | 19.6 | 15.4 | 12.5 | 11.6 | 11.8 | 15.5 | 17.7 | 19.8 | 21.3 | 19.8 | 20.4 | 21.8 | 22.3 | 22.6 | 23.4 | 23.5              | 21.0 |
| 26                         | 21.7 | 24.6 | 26.7 | 26.8 | 27.9 | 27.4 | 23.7 | 21.4 | 18.8 | 15.6 | 15.4 | 15.5 | 17.8 | 19.7 | 21.3 | 22.6 | 21.7 | 22.4 | 22.6 | 21.7 | 22.7 | 24.4 | 22.6              | 21.9 |
| 27                         | 24.2 | 26.6 | 27.9 | 28.9 | 28.8 | 27.8 | 26.6 | 24.4 | 21.4 | 18.7 | 16.6 | 16.4 | 17.4 | 18.7 | 19.7 | 20.4 | 20.7 | 20.7 | 20.7 | 20.4 | 19.7 | 20.6 | 21.4              | 22.1 |
| 28                         | 23.3 | 26.4 | 26.2 | 22.0 | 21.6 | 24.5 | 25.5 | 23.7 | 22.5 | 21.4 | 19.8 | 17.7 | 17.7 | 19.6 | 20.7 | 21.4 | 20.0 | 22.7 | 22.9 | 22.7 | 23.5 | 22.7 | 23.7              | 22.2 |
| 29                         | 24.5 | 25.0 | 23.2 | 20.5 | 20.4 | 24.4 | 24.6 | 23.7 | 21.8 | 20.6 | 19.6 | 19.8 | 20.6 | 21.5 | 23.0 | 23.0 | 22.6 | 22.4 | 22.9 | 23.0 | 23.4 | 23.4 | 23.6              | 22.5 |
| 30                         | 23.0 | 25.6 | 28.4 | 27.2 | 27.7 | 27.6 | 24.7 | 22.4 | 19.4 | 17.4 | 18.3 | 18.9 | 19.3 | 20.7 | 22.4 | 22.4 | 22.5 | 22.7 | 22.5 | 23.5 | 23.5 | 23.5 | 23.8              | 22.9 |
| 31                         | 24.3 | 25.4 | 26.7 | 28.4 | 29.3 | 28.3 | 25.0 | 22.5 | 20.4 | 17.4 | 15.6 | 16.6 | 18.5 | 22.6 | 22.7 | 23.4 | 22.8 | 20.4 | 21.4 | 24.4 | 24.6 | 24.8 | 25.3              | 23.0 |
| Среднее<br>по всем<br>дням | 24.4 | 25.4 | 26.3 | 27.0 | 27.5 | 27.3 | 25.7 | 22.8 | 19.6 | 16.9 | 16.2 | 16.9 | 18.8 | 20.4 | 21.7 | 22.3 | 22.8 | 22.4 | 22.8 | 23.0 | 23.3 | 23.0 | 23.6              | 22.6 |

Величины в скобках взяты с магнитограммы Эдельмана

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал Гор

Проверил Шинь

Ведомство Министерство Высшего образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Среднемес. Н = 16549

Элемент Горизонтальная составляющая

Месяц Май Год 1963

Н = 16400 + = =

| Время<br>мировое           |     |     |     |     |     |     |     |       |     |     |     |       |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8     | 9   | 10  | 11  | 12    | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 150 | 157 | 124 | 144 | 131 | 129 | 119 | 110   | 103 | 107 | 108 | 131   | 129 | 138 | 152 | 138 | 146 | 142 | 143 | 147 | 150 | 142 | 144               | 135 |     |
| 2                          | 144 | 129 | 133 | 140 | 137 | 119 | 119 | 128   | 125 | 122 | 101 | 127   | 145 | 140 | 149 | 158 | 160 | 149 | 150 | 151 | 148 | 153 | 160               | 140 |     |
| 3                          | 171 | 169 | 157 | 154 | 145 | 137 | 128 | 118   | 129 | 133 | 141 | 142   | 141 | 141 | 146 | 154 | 156 | 148 | 149 | 153 | 152 | 139 | 147               | 146 |     |
| 4                          | 139 | 128 | 143 | 140 | 136 | 111 | 96  | 99    | 105 | 113 | 128 | 137   | 138 | 141 | 140 | 142 | 147 | 151 | 148 | 144 | 147 | 142 | 144               | 134 |     |
| 5                          | 151 | 144 | 148 | 140 | 127 | 128 | 126 | 119   | 124 | 125 | 132 | 141   | 140 | 143 | 145 | 156 | 154 | 154 | 156 | 153 | 153 | 152 | 152               | 143 |     |
| 6                          | 150 | 151 | 144 | 137 | 116 | 122 | 121 | 118   | 128 | 138 | 146 | 147   | 149 | 150 | 154 | 153 | 150 | 154 | 157 | 165 | 153 | 151 | 151               | 144 |     |
| 7                          | 155 | 155 | 153 | 151 | 148 | 138 | 131 | 129   | 128 | 137 | 141 | 149   | 148 | 153 | 148 | 156 | 157 | 165 | 163 | 162 | 153 | 157 | 158               | 150 |     |
| 8                          | 153 | 157 | 157 | 157 | 150 | 138 | 129 | 126   | 115 | 123 | 134 | 150   | 149 | 151 | 161 | 153 | 153 | 161 | 165 | 160 | 165 | 162 | 160               | 149 |     |
| 9                          | 158 | 161 | 161 | 157 | 151 | 141 | 112 | 112   | 128 | 129 | 130 | 149   | 145 | 139 | 148 | 150 | 150 | 160 | 163 | 157 | 150 | 149 | 153               | 146 |     |
| 10                         | 150 | 151 | 145 | 148 | 139 | 130 | 111 | 106   | 120 | 118 | 132 | 150   | 153 | 151 | 151 | 150 | 150 | 152 | 162 | 158 | 158 | 160 | 149               | 144 |     |
| 11                         | 149 | 140 | 140 | 136 | 125 | 123 | 117 | (119) | 120 | 126 | 131 | (138) | 136 | 150 | 158 | 155 | 154 | 155 | 157 | 168 | 154 | 149 | 162               | 142 |     |
| 12                         | 153 | 149 | 153 | 154 | 144 | 130 | 116 | 109   | 109 | 123 | 138 | 142   | 147 | 158 | 147 | 151 | 159 | 166 | 166 | 160 | 163 | 156 | 150               | 153 | 146 |
| 13                         | 157 | 152 | 164 | 160 | 128 | 119 | 120 | 111   | 118 | 114 | 109 | 122   | 136 | 136 | 148 | 150 | 143 | 158 | 161 | 157 | 149 | 148 | 152               | 140 |     |
| 14                         | 160 | 160 | 156 | 140 | 130 | 129 | 112 | 118   | 114 | 120 | 129 | 128   | 139 | 144 | 149 | 148 | 150 | 156 | 152 | 149 | 151 | 152 | 149               | 141 |     |
| 15                         | 157 | 158 | 155 | 147 | 136 | 117 | 102 | 110   | 128 | 135 | 141 | 150   | 150 | 154 | 158 | 150 | 152 | 160 | 156 | 150 | 150 | 151 | 147               | 144 |     |
| 16                         | 150 | 145 | 150 | 147 | 136 | 129 | 130 | 134   | 138 | 135 | 138 | 143   | 148 | 150 | 150 | 151 | 152 | 157 | 157 | 154 | 152 | 152 | 151               | 146 |     |
| 17                         | 156 | 159 | 158 | 156 | 150 | 144 | 140 | 145   | 150 | 152 | 153 | 143   | 144 | 160 | 158 | 155 | 158 | 167 | 160 | 158 | 159 | 157 | 157               | 154 |     |
| 18                         | 158 | 163 | 161 | 155 | 145 | 139 | 144 | 148   | 150 | 149 | 146 | 149   | 158 | 160 | 159 | 155 | 160 | 162 | 162 | 163 | 159 | 158 | 159               | 155 |     |
| 19                         | 161 | 162 | 160 | 156 | 149 | 142 | 139 | 140   | 144 | 151 | 153 | 156   | 157 | 150 | 157 | 156 | 160 | 160 | 160 | 159 | 158 | 151 | 144               | 148 | 153 |
| 20                         | 159 | 163 | 154 | 150 | 144 | 139 | 130 | 130   | 133 | 141 | 150 | 158   | 159 | 152 | 153 | 157 | 161 | 163 | 163 | 163 | 162 | 162 | 164               | 153 |     |
| 21                         | 164 | 164 | 160 | 154 | 147 | 145 | 141 | 138   | 142 | 150 | 158 | 161   | 162 | 164 | 163 | 160 | 161 | 166 | 166 | 174 | 166 | 161 | 163               | 158 |     |
| 22                         | 167 | 166 | 163 | 161 | 156 | 148 | 139 | 134   | 137 | 142 | 151 | 158   | 164 | 166 | 165 | 161 | 161 | 163 | 164 | 166 | 166 | 165 | 166               | 158 |     |
| 23                         | 168 | 170 | 168 | 160 | 150 | 141 | 137 | 134   | 135 | 138 | 143 | 158   | 169 | 171 | 166 | 164 | 164 | 167 | 167 | 170 | 168 | 165 | 166               | 159 |     |
| 24                         | 169 | 170 | 169 | 161 | 158 | 150 | 140 | 130   | 123 | 128 | 140 | 153   | 164 | 161 | 163 | 167 | 169 | 172 | 172 | 172 | 173 | 173 | 174               | 177 | 160 |
| 25                         | 180 | 186 | 184 | 178 | 172 | 163 | 150 | 149   | 157 | 157 | 162 | 171   | 152 | 176 | 158 | 162 | 169 | 167 | 167 | 172 | 168 | 165 | 168               | 166 | 167 |
| 26                         | 167 | 176 | 167 | 154 | 143 | 138 | 132 | 131   | 133 | 136 | 138 | 149   | 161 | 167 | 163 | 158 | 161 | 163 | 163 | 163 | 160 | 161 | 156               | 155 | 154 |
| 27                         | 162 | 166 | 166 | 160 | 149 | 139 | 136 | 136   | 139 | 140 | 149 | 150   | 153 | 160 | 170 | 172 | 162 | 166 | 166 | 169 | 180 | 182 | 178               | 174 | 159 |
| 28                         | 174 | 180 | 169 | 152 | 158 | 160 | 160 | 137   | 133 | 129 | 130 | 132   | 141 | 148 | 157 | 157 | 160 | 168 | 169 | 168 | 162 | 167 | 165               | 156 |     |
| 29                         | 167 | 162 | 147 | 125 | 143 | 153 | 128 | 130   | 139 | 129 | 130 | 139   | 156 | 162 | 150 | 154 | 155 | 162 | 158 | 160 | 158 | 157 | 159               | 149 |     |
| 30                         | 154 | 153 | 141 | 130 | 126 | 116 | 111 | 133   | 135 | 133 | 133 | 148   | 157 | 158 | 157 | 155 | 152 | 159 | 156 | 150 | 151 | 151 | 153               | 144 |     |
| 31                         | 158 | 158 | 151 | 143 | 137 | 120 | 113 | 127   | 131 | 135 | 143 | 140   | 154 | 158 | 148 | 150 | 153 | 162 | 164 | 162 | 152 | 160 | 160               | 147 |     |
| Среднее<br>по всем<br>дням | 158 | 158 | 155 | 150 | 142 | 135 | 127 | 126   | 129 | 132 | 137 | 146   | 150 | 153 | 155 | 155 | 156 | 160 | 160 | 160 | 157 | 156 | 157               | 149 |     |

Величины в скобках взяты с магнитогр. Эдельмана

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановился час;  $\times$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитогр. — ( )

Обработал Горь

Проверил Эдельман

Ведомство Министерство Высшего Образования.  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Среднемесячн. Σ = 49767  
Элемент Вертикальная составляющая

Месяц Май Год 1963

Σ = 49465 + = 0

| Время<br>мировое           |  |     |     |     |     |     |     |     |       |     |     |     |       |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |     |     |
|----------------------------|--|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|
| Дни                        |  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8     | 9   | 10  | 11  | 12    | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |     |     |
| 1                          |  | 303 | 305 | 302 | 289 | 292 | 292 | 287 | 291   | 294 | 298 | 304 | 306   | 311 | 313 | 312 | 316 | 317 | 309 | 309 | 308 | 305 | 300 | 294               | 295 | 302 |     |     |
| 2                          |  | 298 | 302 | 298 | 302 | 300 | 297 | 295 | 291   | 289 | 292 | 300 | 312   | 312 | 311 | 313 | 311 | 311 | 298 | 302 | 303 | 302 | 302 | 295               | 294 | 301 |     |     |
| 3                          |  | 296 | 296 | 298 | 298 | 302 | 298 | 296 | 291   | 288 | 289 | 296 | 300   | 304 | 310 | 309 | 310 | 309 | 305 | 304 | 304 | 301 | 298 | 292               | 292 | 299 |     |     |
| 4                          |  | 296 | 293 | 296 | 302 | 305 | 304 | 301 | 299   | 300 | 312 | 312 | 314   | 313 | 313 | 313 | 311 | 311 | 305 | 303 | 304 | 302 | 298 | 296               | 296 | 304 |     |     |
| 5                          |  | 293 | 298 | 300 | 302 | 305 | 302 | 302 | 301   | 296 | 296 | 302 | 304   | 305 | 305 | 304 | 305 | 307 | 305 | 305 | 305 | 304 | 303 | 308               | 304 | 303 |     |     |
| 6                          |  | 304 | 306 | 304 | 304 | 304 | 303 | 299 | 296   | 294 | 298 | 302 | 307   | 308 | 311 | 313 | 311 | 308 | 307 | 305 | 305 | 300 | 300 | 302               | 304 | 304 |     |     |
| 7                          |  | 305 | 304 | 304 | 304 | 304 | 304 | 298 | 291   | 288 | 291 | 300 | 304   | 303 | 306 | 303 | 303 | 303 | 304 | 303 | 301 | 300 | 300 | 301               | 301 | 301 |     |     |
| 8                          |  | 299 | 299 | 299 | 300 | 303 | 304 | 302 | 299   | 298 | 300 | 299 | 304   | 307 | 307 | 311 | 308 | 305 | 304 | 304 | 302 | 304 | 298 | 296               | 298 | 302 |     |     |
| 9                          |  | 302 | 305 | 305 | 307 | 302 | 298 | 298 | 296   | 293 | 296 | 303 | 305   | 311 | 308 | 307 | 308 | 305 | 304 | 304 | 303 | 298 | 301 | 301               | 296 | 302 |     |     |
| 10                         |  | 301 | 302 | 302 | 301 | 300 | 298 | 293 | 293   | 290 | 289 | 294 | 302   | 302 | 305 | 309 | 311 | 311 | 300 | 303 | 298 | 294 | 297 | 291               | 290 | 299 |     |     |
| 11                         |  | 293 | 290 | 294 | 300 | 303 | 301 | 293 | (295) | 285 | 286 | 294 | (308) | 311 | 311 | 312 | 310 | 305 | 304 | 304 | 303 | 299 | 298 | 298               | 294 | 300 |     |     |
| 12                         |  | 297 | 299 | 298 | 301 | 301 | 298 | 298 | 291   | 291 | 292 | 298 | 303   | 305 | 310 | 314 | 314 | 309 | 305 | 304 | 304 | 298 | 296 | 298               | 301 | 301 |     |     |
| 13                         |  | 300 | 295 | 292 | 293 | 296 | 300 | 298 | 298   | 295 | 300 | 302 | 315   | 322 | 322 | 320 | 312 | 307 | 307 | 307 | 307 | 304 | 300 | 298               | 294 | 291 | 292 | 302 |
| 14                         |  | 292 | 293 | 294 | 294 | 295 | 295 | 296 | 298   | 298 | 303 | 310 | 309   | 311 | 311 | 311 | 309 | 307 | 307 | 307 | 307 | 307 | 307 | 306               | 301 | 300 | 303 |     |
| 15                         |  | 304 | 307 | 306 | 304 | 304 | 302 | 302 | 296   | 290 | 291 | 298 | 304   | 307 | 310 | 310 | 306 | 306 | 306 | 305 | 304 | 304 | 304 | 304               | 304 | 304 | 303 |     |
| 16                         |  | 306 | 306 | 307 | 307 | 306 | 299 | 293 | 294   | 293 | 294 | 302 | 308   | 308 | 306 | 307 | 308 | 306 | 307 | 306 | 306 | 306 | 307 | 307               | 307 | 304 |     |     |
| 17                         |  | 309 | 311 | 311 | 309 | 306 | 300 | 298 | 293   | 292 | 294 | 299 | 302   | 306 | 310 | 315 | 315 | 313 | 312 | 307 | 307 | 308 | 307 | 307               | 307 | 307 | 306 |     |
| 18                         |  | 309 | 309 | 309 | 308 | 306 | 301 | 297 | 295   | 292 | 291 | 296 | 300   | 303 | 303 | 303 | 302 | 304 | 304 | 305 | 305 | 305 | 305 | 306               | 306 | 303 |     |     |
| 19                         |  | 306 | 307 | 305 | 304 | 304 | 300 | 297 | 296   | 293 | 296 | 300 | 301   | 303 | 303 | 304 | 305 | 306 | 307 | 306 | 306 | 306 | 306 | 304               | 302 | 297 | 302 |     |
| 20                         |  | 293 | 292 | 294 | 300 | 297 | 296 | 298 | 300   | 299 | 300 | 300 | 305   | 307 | 306 | 307 | 307 | 307 | 306 | 306 | 305 | 306 | 306 | 306               | 306 | 302 |     |     |
| 21                         |  | 307 | 307 | 306 | 304 | 304 | 302 | 303 | 300   | 290 | 287 | 292 | 300   | 302 | 300 | 300 | 302 | 302 | 305 | 306 | 302 | 302 | 304 | 304               | 306 | 302 |     |     |
| 22                         |  | 306 | 304 | 303 | 305 | 305 | 304 | 299 | 293   | 292 | 295 | 294 | 298   | 304 | 308 | 308 | 308 | 304 | 303 | 304 | 304 | 304 | 305 | 305               | 306 | 303 |     |     |
| 23                         |  | 306 | 307 | 307 | 306 | 306 | 305 | 302 | 298   | 298 | 298 | 299 | 300   | 303 | 306 | 307 | 306 | 304 | 304 | 304 | 304 | 303 | 303 | 304               | 305 | 304 |     |     |
| 24                         |  | 306 | 306 | 305 | 300 | 296 | 293 | 292 | 292   | 290 | 287 | 287 | 295   | 303 | 306 | 306 | 306 | 305 | 303 | 303 | 303 | 303 | 304 | 304               | 305 | 300 |     |     |
| 25                         |  | 306 | 306 | 302 | 299 | 296 | 295 | 293 | 290   | 288 | 287 | 291 | 305   | 305 | 311 | 313 | 308 | 306 | 306 | 304 | 304 | 300 | 302 | 304               | 304 | 301 |     |     |
| 26                         |  | 303 | 295 | 295 | 292 | 292 | 293 | 298 | 294   | 291 | 293 | 294 | 298   | 304 | 309 | 311 | 308 | 306 | 306 | 306 | 306 | 304 | 304 | 300               | 301 | 301 | 300 |     |
| 27                         |  | 302 | 303 | 302 | 301 | 303 | 303 | 298 | 293   | 290 | 288 | 289 | 298   | 300 | 303 | 307 | 309 | 306 | 306 | 306 | 304 | 304 | 303 | 302               | 303 | 303 | 301 |     |
| 28                         |  | 301 | 299 | 299 | 296 | 294 | 294 | 293 | 294   | 296 | 298 | 300 | 307   | 312 | 309 | 307 | 306 | 306 | 306 | 305 | 305 | 304 | 304 | 304               | 304 | 304 | 302 |     |
| 29                         |  | 305 | 306 | 302 | 294 | 295 | 295 | 296 | 302   | 295 | 298 | 300 | 305   | 313 | 318 | 318 | 312 | 306 | 305 | 304 | 304 | 305 | 305 | 305               | 305 | 304 |     |     |
| 30                         |  | 304 | 300 | 299 | 296 | 298 | 298 | 299 | 298   | 292 | 295 | 300 | 304   | 306 | 309 | 309 | 306 | 304 | 303 | 303 | 300 | 301 | 303 | 303               | 305 | 301 |     |     |
| 31                         |  | 306 | 305 | 302 | 301 | 301 | 302 | 300 | 294   | 290 | 290 | 292 | 299   | 310 | 315 | 312 | 312 | 307 | 305 | 303 | 302 | 300 | 296 | 293               | 300 | 302 |     |     |
| Среднее<br>по всем<br>дням |  | 302 | 302 | 301 | 301 | 301 | 299 | 297 | 295   | 293 | 294 | 298 | 304   | 307 | 309 | 310 | 309 | 307 | 305 | 305 | 304 | 302 | 302 | 301               | 301 | 302 |     |     |

Величины в скобках взяты с магнитограмм Эдельмана

Условные обозначения: Δ — погасла лампа; > или < — запись вышла за бумагу; □ — остановились часы; ∧ — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал Горько

Проверил Смирнов

Ведомство Министерство Высшего Образования  
Обсерватория Казанская (Займище) Широта 55° 50' N Долгота 48° 51' E

Элемент Склонение  
D = 10° + = 10° 23.3

Месяц Июнь Год 1963

| Время<br>мировое           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |      |
|----------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|
| Дни                        |  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |      |
| 1                          |  | 24.7 | 24.0 | 24.7 | 27.0 | 27.9 | 27.0 | 25.4 | 22.7 | 20.4 | 18.4 | 17.4 | 17.5 | 18.6 | 18.0 | 20.6 | 22.6 | 22.7 | 21.7 | 21.6 | 22.2 | 21.8 | 21.5 | 23.5              | 23.7 | 22.3 |
| 2                          |  | 23.7 | 26.0 | 27.2 | 28.2 | 27.6 | 27.4 | 24.6 | 21.0 | 18.4 | 16.7 | 16.5 | 17.6 | 20.5 | 27.4 | 22.8 | 24.6 | 22.6 | 21.5 | 21.9 | 23.7 | 21.5 | 22.5 | 22.6              | 23.3 | 22.9 |
| 3                          |  | 24.5 | 25.5 | 26.6 | 26.4 | 25.0 | 25.6 | 22.6 | 20.4 | 18.6 | 16.7 | 15.3 | 15.4 | 18.6 | 20.4 | 21.7 | 21.7 | 22.4 | 22.4 | 21.7 | 22.5 | 22.6 | 22.6 | 23.5              | 23.6 | 21.9 |
| 4                          |  | 24.6 | 25.7 | 27.5 | 28.6 | 28.4 | 27.6 | 25.6 | 23.4 | 19.8 | 17.3 | 16.6 | 17.8 | 21.2 | 22.8 | 24.0 | 23.6 | 22.7 | 22.3 | 21.8 | 22.0 | 22.6 | 22.6 | 22.8              | 23.4 | 23.1 |
| 5                          |  | 24.4 | 25.6 | 27.0 | 27.6 | 27.7 | 27.0 | 24.8 | 21.6 | 18.6 | 16.6 | 16.0 | 16.4 | 17.7 | 19.7 | 21.4 | 21.6 | 21.7 | 21.6 | 21.7 | 22.0 | 22.4 | 22.6 | 23.4              | 23.6 | 22.2 |
| 6                          |  | 24.7 | 26.4 | 27.6 | 27.9 | 27.5 | 27.0 | 24.8 | 21.0 | 19.4 | 17.0 | 15.6 | 14.5 | 16.0 | 17.7 | 18.4 | 17.7 | 17.6 | 16.0 | 17.8 | 23.6 | 29.4 | 33.5 | 31.4              | 36.6 | 22.9 |
| 7                          |  | 38.6 | 35.7 | 33.6 | 26.5 | 29.5 | 31.6 | 32.3 | 28.4 | 22.4 | 18.6 | 17.4 | 16.1 | 17.7 | 20.5 | 23.1 | 24.7 | 27.8 | 25.2 | 24.8 | 27.4 | 24.9 | 24.0 | 19.4              | 24.8 | 25.6 |
| 8                          |  | 26.8 | 29.4 | 30.4 | 31.4 | 32.6 | 33.3 | 30.3 | 26.3 | 22.4 | 18.8 | 16.5 | 15.5 | 18.7 | 20.1 | 21.5 | 24.4 | 24.2 | 22.8 | 22.6 | 24.5 | 24.9 | 23.6 | 19.4              | 22.5 | 24.3 |
| 9                          |  | 26.7 | 28.4 | 30.2 | 31.5 | 31.4 | 30.6 | 29.8 | 27.5 | 23.8 | 19.7 | 16.5 | 16.6 | 17.7 | 18.9 | 21.6 | 23.3 | 24.2 | 23.9 | 23.4 | 23.2 | 23.4 | 23.4 | 23.0              | 23.2 | 24.2 |
| 10                         |  | 24.3 | 26.4 | 28.4 | 29.6 | 30.6 | 30.5 | 27.7 | 24.4 | 20.6 | 16.7 | 15.4 | 16.4 | 18.2 | 18.6 | 19.7 | 21.3 | 22.6 | 23.5 | 22.0 | 21.4 | 22.6 | 24.6 | 24.8              | 24.8 | 23.1 |
| 11                         |  | 25.4 | 25.9 | 27.3 | 27.8 | 29.8 | 28.4 | 27.7 | 25.8 | 21.7 | 18.5 | 16.4 | 15.5 | 16.9 | 20.5 | 23.4 | 22.4 | 21.6 | 23.2 | 23.0 | 22.3 | 21.9 | 22.4 | 20.7              | 22.9 | 23.0 |
| 12                         |  | 24.8 | 26.5 | 28.0 | 29.6 | 30.4 | 30.7 | 29.6 | 25.5 | 21.6 | 17.6 | 16.0 | 15.7 | 18.0 | 19.6 | 20.7 | 22.0 | 22.5 | 23.8 | 23.4 | 23.4 | 23.6 | 23.5 | 23.7              | 24.4 | 23.5 |
| 13                         |  | 24.8 | 25.8 | 25.5 | 26.4 | 27.7 | 27.7 | 26.1 | 23.8 | 20.4 | 16.9 | 15.4 | 14.0 | 15.6 | 19.4 | 19.7 | 20.4 | 20.9 | 21.4 | 21.7 | 22.5 | 22.5 | 22.5 | 22.6              | 22.5 | 21.9 |
| 14                         |  | 22.3 | 23.7 | 27.0 | 28.7 | 29.8 | 30.4 | 28.7 | 26.0 | 23.6 | 21.2 | 18.8 | 19.4 | 20.4 | 20.7 | 22.2 | 22.1 | 20.6 | 20.7 | 21.4 | 21.4 | 21.6 | 22.5 | 23.0              | 23.7 | 23.3 |
| 15                         |  | 23.6 | 24.6 | 25.7 | 27.4 | 27.8 | 28.9 | 24.7 | 23.5 | 21.6 | 19.6 | 18.7 | 18.7 | 18.9 | 19.6 | 20.7 | 22.4 | 22.6 | 22.0 | 22.4 | 22.8 | 24.3 | 26.4 | 24.0              | 23.9 | 23.1 |
| 16                         |  | 24.4 | 25.7 | 27.5 | 28.0 | 28.4 | 28.6 | 26.1 | 23.4 | 20.7 | 19.4 | 18.4 | 17.7 | 18.7 | 20.3 | 20.7 | 20.7 | 20.7 | 21.7 | 21.2 | 22.0 | 22.6 | 22.6 | 22.5              | 22.6 | 22.7 |
| 17                         |  | 23.7 | 25.4 | 27.2 | 29.3 | 28.9 | 28.7 | 27.2 | 23.3 | 17.9 | 16.2 | 15.6 | 15.7 | 17.1 | 19.5 | 22.0 | 24.6 | 24.5 | 25.6 | 24.8 | 24.6 | 24.6 | 22.6 | 23.4              | 24.6 | 23.2 |
| 18                         |  | 26.0 | 26.9 | 28.1 | 26.4 | 23.4 | 22.5 | 22.6 | 21.9 | 21.0 | 20.4 | 19.4 | 17.3 | 16.7 | 19.5 | 22.5 | 20.6 | 23.0 | 24.4 | 26.5 | 30.6 | 31.5 | 34.4 | 33.0              | 32.9 | 24.6 |
| 19                         |  | 32.4 | 29.6 | 30.6 | 28.2 | 26.7 | 26.6 | 23.9 | 22.7 | 20.5 | 17.7 | 16.7 | 17.2 | 18.7 | 20.4 | 20.7 | 21.0 | 19.9 | 19.5 | 23.5 | 24.6 | 23.4 | 25.4 | 22.7              | 24.5 | 23.2 |
| 20                         |  | 25.6 | 25.6 | 25.6 | 29.4 | 28.6 | 28.0 | 27.4 | 26.4 | 22.7 | 19.5 | 19.4 | 17.9 | 18.6 | 21.4 | 22.4 | 23.0 | 23.7 | 23.7 | 23.5 | 22.6 | 23.6 | 24.0 | 24.6              | 24.6 | 23.8 |
| 21                         |  | 23.8 | 25.7 | 28.6 | 29.5 | 29.4 | 28.7 | 27.4 | 24.5 | 21.6 | 19.3 | 16.7 | 17.6 | 19.4 | 21.3 | 22.6 | 22.5 | 21.7 | 21.9 | 22.5 | 22.6 | 23.5 | 23.6 | 23.5              | 24.4 | 23.4 |
| 22                         |  | 25.0 | 26.6 | 27.9 | 28.4 | 27.6 | 26.7 | 25.4 | 23.5 | 21.5 | 19.9 | 18.3 | 17.7 | 18.9 | 20.8 | 22.4 | 23.3 | 23.4 | 22.7 | 23.4 | 22.6 | 23.4 | 23.6 | 24.4              | 24.8 | 23.4 |
| 23                         |  | 26.4 | 27.6 | 28.6 | 28.6 | 28.6 | 26.6 | 23.8 | 21.5 | 20.4 | 19.4 | 18.6 | 17.4 | 18.6 | 20.3 | 21.4 | 21.6 | 21.7 | 21.5 | 21.5 | 22.0 | 23.2 | 23.4 | 23.6              | 24.4 | 22.9 |
| 24                         |  | 25.4 | 26.6 | 27.7 | 27.7 | 26.7 | 25.7 | 23.6 | 22.5 | 20.6 | 17.0 | 14.5 | 13.9 | 15.4 | 17.7 | 19.4 | 20.4 | 21.2 | 20.6 | 19.6 | 20.7 | 22.0 | 23.1 | 22.7              | 24.1 | 21.6 |
| 25                         |  | 26.6 | 25.0 | 25.4 | 27.9 | 25.7 | 24.7 | 23.0 | 18.6 | 19.8 | 19.4 | 18.5 | 19.4 | 20.6 | 21.6 | 23.3 | 20.6 | 20.5 | 21.0 | 20.3 | 20.6 | 26.7 | 30.7 | 27.5              | 29.8 | 23.2 |
| 26                         |  | 27.4 | 17.6 | 24.4 | 28.4 | 27.5 | 30.0 | 28.6 | 27.1 | 25.7 | 21.5 | 20.7 | 20.3 | 21.4 | 22.6 | 22.8 | 23.4 | 23.4 | 23.0 | 23.4 | 23.7 | 24.0 | 22.7 | 24.8              | 25.6 | 24.2 |
| 27                         |  | 27.0 | 27.4 | 25.6 | 26.4 | 27.3 | 26.4 | 25.5 | 21.9 | 20.7 | 19.6 | 18.3 | 18.9 | 20.7 | 21.4 | 22.5 | 21.6 | 21.4 | 21.6 | 22.7 | 23.4 | 25.6 | 24.7 | 24.4              | 23.2 | 23.3 |
| 28                         |  | 23.7 | 25.6 | 26.8 | 27.6 | 29.6 | 30.4 | 28.4 | 25.6 | 23.0 | 19.7 | 17.7 | 17.7 | 19.4 | 21.7 | 20.5 | 22.7 | 21.7 | 23.6 | 23.1 | 23.5 | 23.4 | 24.4 | 24.0              | 24.6 | 23.7 |
| 29                         |  | 24.7 | 26.7 | 27.4 | 27.7 | 27.7 | 28.4 | 27.3 | 25.0 | 23.0 | 20.7 | 19.4 | 18.5 | 18.6 | 19.8 | 21.3 | 22.6 | 25.4 | 24.6 | 24.4 | 24.5 | 24.2 | 23.6 | 24.3              | 23.4 | 23.9 |
| 30                         |  | 23.7 | 23.4 | 25.5 | 26.4 | 27.4 | 26.7 | 25.6 | 22.8 | 19.7 | 17.8 | 16.7 | 18.5 | 19.4 | 21.4 | 22.6 | 23.4 | 21.6 | 22.0 | 21.6 | 22.6 | 26.5 | 26.5 | 25.0              | 23.8 | 22.9 |
| 31                         |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |      |
| Среднее<br>по всем<br>дням |  | 25.7 | 26.2 | 27.5 | 28.2 | 28.2 | 28.1 | 26.4 | 23.7 | 21.1 | 18.6 | 17.2 | 17.1 | 18.6 | 20.5 | 21.6 | 22.2 | 22.4 | 22.3 | 22.4 | 23.2 | 23.9 | 24.4 | 23.9              | 24.8 | 23.3 |

Величины в скобках взяты с магнитограммы Эдельмана

Ведомство Министерство Высшего Образования Среднемесячи. И = 16548  
Обсерватория Жазанская (Затмение) Широта 55°50'N Долгота 48°51'E Элемент Горизонтальная составляющая  
Месяц Июнь Год 1963 И = 16400 + =

| Время<br>мировое           |     |     |     |     |     |     |     |       |     |     |     |     |     |       |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8     | 9   | 10  | 11  | 12  | 13  | 14    | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 165 | 158 | 156 | 148 | 141 | 141 | 138 | 140   | 137 | 120 | 126 | 118 | 134 | 152   | 153 | 147 | 152 | 153 | 157 | 156 | 157 | 153 | 153               | 146 |     |
| 2                          | 153 | 156 | 152 | 146 | 137 | 127 | 127 | 121   | 130 | 136 | 144 | 151 | 147 | 154   | 157 | 145 | 149 | 159 | 167 | 161 | 158 | 160 | 162               | 148 |     |
| 3                          | 160 | 158 | 154 | 147 | 140 | 140 | 136 | 138   | 146 | 147 | 148 | 147 | 159 | 159   | 152 | 153 | 153 | 158 | 157 | 154 | 155 | 157 | 154               | 151 |     |
| 4                          | 158 | 165 | 164 | 156 | 143 | 138 | 133 | 126   | 135 | 140 | 147 | 153 | 161 | 165   | 159 | 159 | 156 | 157 | 156 | 155 | 158 | 159 | 160               | 152 |     |
| 5                          | 161 | 162 | 162 | 157 | 149 | 137 | 129 | 126   | 130 | 137 | 148 | 158 | 163 | 163   | 159 | 158 | 158 | 160 | 160 | 160 | 160 | 160 | 163               | 153 |     |
| 6                          | 169 | 174 | 175 | 169 | 160 | 152 | 142 | 139   | 142 | 149 | 160 | 167 | 176 | 187   | 189 | 188 | 187 | 198 | 201 | 197 | 188 | 173 | 147               | 172 |     |
| 7                          | 160 | 159 | 120 | 113 | 108 | 102 | 86  | 70    | 77  | 94  | 107 | 128 | 137 | 156   | 163 | 148 | 140 | 153 | 136 | 140 | 147 | 141 | 143               | 128 |     |
| 8                          | 150 | 150 | 148 | 148 | 138 | 123 | 107 | 111   | 118 | 118 | 121 | 137 | 150 | 160   | 153 | 142 | 143 | 154 | 162 | 153 | 150 | 148 | 159               | 141 |     |
| 9                          | 160 | 145 | 142 | 140 | 133 | 122 | 120 | 111   | 108 | 116 | 122 | 123 | 148 | 147   | 149 | 143 | 143 | 144 | 143 | 148 | 145 | 140 | 143               | 137 |     |
| 10                         | 147 | 147 | 150 | 151 | 144 | 132 | 119 | 113   | 119 | 120 | 122 | 127 | 137 | 151   | 154 | 156 | 153 | 152 | 160 | 153 | 157 | 154 | 157               | 143 |     |
| 11                         | 159 | 158 | 153 | 149 | 134 | 123 | 130 | (125) | 122 | 128 | 132 | 138 | 147 | 157   | 159 | 160 | 159 | 159 | 157 | 156 | 156 | 153 | 157               | 147 |     |
| 12                         | 164 | 162 | 159 | 149 | 138 | 126 | 112 | 110   | 118 | 130 | 137 | 140 | 148 | 153   | 158 | 158 | 158 | 160 | 160 | 156 | 153 | 153 | 153               | 146 |     |
| 13                         | 151 | 153 | 154 | 158 | 156 | 146 | 133 | 126   | 130 | 134 | 137 | 139 | 143 | 141   | 145 | 146 | 150 | 157 | 157 | 158 | 157 | 159 | 158               | 148 |     |
| 14                         | 152 | 151 | 160 | 156 | 150 | 141 | 133 | 129   | 130 | 140 | 148 | 148 | 151 | 154   | 150 | 159 | 160 | 157 | 157 | 156 | 156 | 157 | 158               | 150 |     |
| 15                         | 161 | 161 | 160 | 149 | 130 | 114 | 117 | 131   | 142 | 145 | 142 | 140 | 145 | 154   | 156 | 149 | 150 | 162 | 164 | 168 | 160 | 160 | 162               | 149 |     |
| 16                         | 162 | 162 | 161 | 159 | 153 | 151 | 148 | 143   | 139 | 141 | 142 | 142 | 148 | 151   | 153 | 160 | 161 | 156 | 156 | 160 | 158 | 158 | 156               | 153 |     |
| 17                         | 157 | 162 | 160 | 158 | 146 | 140 | 137 | 141   | 142 | 136 | 139 | 141 | 151 | (154) | 143 | 144 | 146 | 136 | 141 | 143 | 146 | 149 | 158               | 146 |     |
| 18                         | 160 | 159 | 149 | 135 | 130 | 137 | 134 | 130   | 132 | 139 | 142 | 158 | 166 | 150   | 160 | 167 | 164 | 139 | 144 | 126 | 133 | 133 | 146               | 145 |     |
| 19                         | 159 | 157 | 152 | 139 | 133 | 123 | 123 | 124   | 124 | 133 | 138 | 144 | 150 | 151   | 150 | 151 | 164 | 171 | 164 | 170 | 179 | 170 | 163               | 150 |     |
| 20                         | 151 | 164 | 167 | 153 | 153 | 143 | 123 | 110   | 110 | 112 | 118 | 123 | 140 | 148   | 150 | 148 | 152 | 154 | 157 | 158 | 150 | 150 | 150               | 144 |     |
| 21                         | 150 | 152 | 153 | 146 | 130 | 120 | 121 | 120   | 117 | 121 | 140 | 145 | 156 | 159   | 157 | 157 | 156 | 160 | 160 | 160 | 160 | 158 | 162               | 146 |     |
| 22                         | 160 | 158 | 158 | 152 | 141 | 137 | 124 | 123   | 121 | 128 | 134 | 140 | 150 | 154   | 158 | 154 | 157 | 160 | 157 | 155 | 156 | 156 | 157               | 148 |     |
| 23                         | 157 | 158 | 154 | 147 | 140 | 136 | 137 | 136   | 136 | 137 | 134 | 146 | 158 | 159   | 157 | 152 | 154 | 161 | 160 | 158 | 156 | 156 | 159               | 150 |     |
| 24                         | 161 | 161 | 162 | 160 | 150 | 140 | 137 | 142   | 140 | 142 | 152 | 160 | 163 | 158   | 171 | 166 | 146 | 160 | 161 | 162 | 164 | 166 | 167               | 156 |     |
| 25                         | 172 | 170 | 172 | 152 | 157 | 134 | 117 | 116   | 135 | 130 | 136 | 127 | 136 | 136   | 147 | 160 | 168 | 174 | 170 | 162 | 155 | 154 | 154               | 150 |     |
| 26                         | 155 | 137 | 155 | 133 | 107 | 126 | 112 | 100   | 100 | 122 | 146 | 153 | 149 | 141   | 144 | 144 | 154 | 159 | 159 | 160 | 161 | 160 | 159               | 141 |     |
| 27                         | 160 | 160 | 146 | 139 | 122 | 120 | 120 | 107   | 110 | 132 | 134 | 134 | 132 | 141   | 147 | 152 | 158 | 156 | 168 | 159 | 156 | 158 | 150               | 142 |     |
| 28                         | 153 | 157 | 158 | 147 | 136 | 124 | 124 | 130   | 111 | 130 | 142 | 138 | 142 | 157   | 167 | 144 | 152 | 161 | 151 | 155 | 154 | 158 | 156               | 146 |     |
| 29                         | 158 | 158 | 160 | 158 | 150 | 139 | 130 | 128   | 138 | 139 | 147 | 150 | 152 | 156   | 155 | 170 | 153 | 162 | 156 | 154 | 150 | 154 | 152               | 151 |     |
| 30                         | 157 | 152 | 148 | 143 | 131 | 115 | 104 | 110   | 121 | 137 | 139 | 138 | 150 | 150   | 158 | 176 | 163 | 163 | 167 | 150 | 151 | 150 | 147               | 145 |     |
| 31                         |     |     |     |     |     |     |     |       |     |     |     |     |     |       |     |     |     |     |     |     |     |     |                   |     |     |
| Среднее<br>по всем<br>дням | 158 | 158 | 155 | 149 | 139 | 132 | 125 | 123   | 125 | 131 | 137 | 142 | 150 | 154   | 156 | 155 | 155 | 158 | 158 | 159 | 157 | 156 | 155               | 156 | 148 |

Величины в скобках взяты с магнитограмм Эдельмана

Ведомство Министерство Высшего образования  
Обсерватория Казанская (Займище) Широта 55°50'N Долгота 48°51'E

Среднемесячи. Х = 49770

Месяц Июнь Год 1963

Элемент Вертикальная составляющая

Х = 49465 + = =

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |     |                  |
| 1                          | 304 | 303 | 300 | 295 | 294 | 293 | 293 | 294 | 291 | 291 | 304 | 308 | 304 | 307 | 313 | 313 | 311 | 308 | 307 | 306 | 306 | 303 | 306 | 302              |
| 2                          | 306 | 307 | 305 | 300 | 299 | 301 | 302 | 300 | 296 | 293 | 296 | 304 | 316 | 315 | 317 | 317 | 311 | 309 | 307 | 306 | 302 | 303 | 304 | 305              |
| 3                          | 306 | 306 | 304 | 298 | 293 | 293 | 291 | 293 | 293 | 294 | 300 | 306 | 310 | 311 | 310 | 307 | 308 | 307 | 306 | 306 | 306 | 306 | 306 | 303              |
| 4                          | 308 | 309 | 309 | 307 | 306 | 299 | 293 | 292 | 289 | 291 | 296 | 301 | 306 | 306 | 306 | 306 | 305 | 305 | 305 | 304 | 304 | 305 | 306 | 303              |
| 5                          | 305 | 305 | 305 | 305 | 305 | 303 | 301 | 299 | 294 | 295 | 302 | 299 | 302 | 305 | 305 | 304 | 303 | 303 | 303 | 303 | 303 | 303 | 304 | 302              |
| 6                          | 306 | 306 | 306 | 303 | 304 | 301 | 299 | 295 | 292 | 288 | 292 | 295 | 302 | 305 | 305 | 304 | 302 | 303 | 303 | 297 | 274 | 266 | 286 | 282              |
| 7                          | 278 | 259 | 265 | 269 | 289 | 293 | 301 | 306 | 305 | 302 | 309 | 320 | 325 | 335 | 331 | 331 | 328 | 320 | 312 | 310 | 312 | 306 | 293 | 302              |
| 8                          | 310 | 312 | 312 | 310 | 306 | 306 | 308 | 305 | 302 | 302 | 308 | 306 | 315 | 318 | 318 | 316 | 312 | 312 | 310 | 306 | 305 | 305 | 293 | 290              |
| 9                          | 291 | 295 | 295 | 297 | 299 | 299 | 299 | 297 | 297 | 299 | 305 | 312 | 317 | 312 | 312 | 312 | 310 | 310 | 307 | 306 | 305 | 305 | 305 | 304              |
| 10                         | 306 | 306 | 306 | 306 | 306 | 309 | 305 | 292 | 294 | 294 | 297 | 302 | 305 | 308 | 308 | 308 | 306 | 309 | 305 | 303 | 303 | 303 | 303 | 304              |
| 11                         | 305 | 305 | 305 | 305 | 305 | 310 | 299 | 293 | 287 | 287 | 291 | 304 | 308 | 310 | 310 | 310 | 306 | 305 | 305 | 304 | 304 | 304 | 300 | 302              |
| 12                         | 305 | 305 | 304 | 299 | 302 | 300 | 295 | 292 | 287 | 287 | 293 | 301 | 308 | 310 | 310 | 309 | 307 | 308 | 306 | 306 | 307 | 307 | 307 | 303              |
| 13                         | 305 | 304 | 303 | 301 | 305 | 303 | 298 | 298 | 297 | 300 | 299 | 299 | 303 | 306 | 306 | 306 | 305 | 305 | 308 | 308 | 308 | 308 | 308 | 304              |
| 14                         | 311 | 305 | 303 | 301 | 303 | 301 | 300 | 297 | 297 | 293 | 295 | 299 | 308 | 312 | 316 | 316 | 311 | 309 | 306 | 308 | 308 | 308 | 308 | 305              |
| 15                         | 310 | 308 | 306 | 301 | 297 | 297 | 297 | 297 | 297 | 293 | 295 | 299 | 303 | 305 | 312 | 316 | 314 | 312 | 310 | 308 | 306 | 306 | 306 | 303              |
| 16                         | 308 | 309 | 309 | 307 | 300 | 300 | 301 | 299 | 297 | 299 | 301 | 304 | 307 | 307 | 308 | 308 | 308 | 308 | 309 | 309 | 309 | 307 | 307 | 305              |
| 17                         | 308 | 308 | 307 | 308 | 307 | 302 | 303 | 301 | 300 | 299 | 307 | 316 | 328 | 340 | 347 | 345 | 338 | 331 | 325 | 319 | 317 | 313 | 310 | 316              |
| 18                         | 313 | 314 | 313 | 308 | 307 | 307 | 308 | 306 | 302 | 301 | 306 | 315 | 327 | 327 | 325 | 327 | 331 | 331 | 327 | 312 | 295 | 299 | 291 | 312              |
| 19                         | 299 | 306 | 309 | 312 | 314 | 312 | 306 | 305 | 301 | 300 | 303 | 306 | 312 | 314 | 314 | 313 | 314 | 318 | 316 | 312 | 313 | 307 | 307 | 309              |
| 20                         | 303 | 299 | 290 | 295 | 297 | 297 | 294 | 290 | 295 | 305 | 315 | 319 | 318 | 320 | 319 | 320 | 318 | 314 | 314 | 312 | 307 | 308 | 310 | 307              |
| 21                         | 310 | 310 | 311 | 312 | 312 | 310 | 305 | 302 | 300 | 303 | 305 | 307 | 308 | 310 | 312 | 312 | 312 | 310 | 310 | 310 | 308 | 307 | 307 | 308              |
| 22                         | 308 | 309 | 309 | 307 | 301 | 290 | 287 | 293 | 295 | 299 | 302 | 307 | 310 | 308 | 308 | 310 | 311 | 311 | 308 | 307 | 308 | 308 | 307 | 305              |
| 23                         | 308 | 308 | 310 | 307 | 307 | 304 | 301 | 299 | 297 | 299 | 301 | 303 | 307 | 310 | 310 | 307 | 307 | 307 | 307 | 307 | 307 | 307 | 307 | 306              |
| 24                         | 309 | 308 | 307 | 307 | 307 | 303 | 301 | 299 | 301 | 301 | 299 | 302 | 308 | 308 | 314 | 318 | 317 | 314 | 312 | 310 | 308 | 309 | 308 | 307              |
| 25                         | 307 | 304 | 303 | 302 | 301 | 299 | 305 | 306 | 305 | 301 | 303 | 306 | 312 | 323 | 321 | 318 | 314 | 310 | 308 | 308 | 305 | 289 | 299 | 305              |
| 26                         | 289 | 278 | 286 | 297 | 301 | 303 | 306 | 306 | 311 | 306 | 309 | 312 | 312 | 311 | 313 | 313 | 313 | 313 | 312 | 312 | 310 | 305 | 301 | 305              |
| 27                         | 307 | 307 | 308 | 307 | 303 | 305 | 308 | 305 | 301 | 300 | 303 | 312 | 318 | 316 | 319 | 314 | 313 | 312 | 312 | 307 | 299 | 304 | 306 | 308              |
| 28                         | 304 | 305 | 305 | 304 | 297 | 293 | 294 | 294 | 295 | 305 | 308 | 311 | 313 | 314 | 320 | 318 | 314 | 314 | 308 | 309 | 310 | 309 | 308 | 307              |
| 29                         | 312 | 312 | 308 | 305 | 304 | 301 | 297 | 299 | 300 | 301 | 299 | 300 | 307 | 312 | 314 | 318 | 319 | 316 | 307 | 307 | 308 | 309 | 309 | 307              |
| 30                         | 309 | 306 | 307 | 307 | 305 | 303 | 300 | 294 | 291 | 291 | 300 | 304 | 314 | 314 | 315 | 314 | 312 | 314 | 310 | 299 | 301 | 307 | 307 | 305              |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |
| Среднее<br>по всем<br>дням | 305 | 304 | 304 | 303 | 303 | 301 | 300 | 298 | 297 | 297 | 301 | 306 | 311 | 313 | 315 | 314 | 313 | 312 | 310 | 307 | 305 | 304 | 304 | 305              |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал Горин

Проверил Бичу

Ведомство Министерство Высшего Образования  
Обсерватория Казанская / Займица / Широта 55° 50' N Долгота 48° 51' E

Элемент Склонение Среднемесячн.  $\delta = 10^{\circ} 22' 7''$

Месяц Июль Год 1963

$\delta$  =  $10^{\circ}$  + . . . =            ° =            °

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |      |
| 1                          | 24.5 | 27.5 | 27.3 | 26.7 | 27.4 | 27.8 | 25.8 | 23.5 | 20.7 | 18.7 | 17.7 | 18.4 | 19.5 | 20.6 | 21.7 | 21.4 | 21.7 | 22.3 | 22.6 | 22.7 | 23.1 | 23.4 | 23.7              | 24.2 | 23.0 |
| 2                          | 25.2 | 26.5 | 28.1 | 28.4 | 28.5 | 28.7 | 27.8 | 26.7 | 23.2 | 20.0 | 18.1 | 17.2 | 18.3 | 19.2 | 20.7 | 21.1 | 21.3 | 21.2 | 21.4 | 22.0 | 22.5 | 22.9 | 23.2              | 23.8 | 23.2 |
| 3                          | 24.6 | 25.8 | 27.2 | 27.3 | 27.8 | 27.0 | 24.3 | 21.7 | 19.0 | 17.4 | 17.0 | 16.3 | 17.1 | 18.3 | 19.8 | 21.1 | 21.1 | 21.0 | 21.7 | 21.7 | 22.2 | 21.9 | 22.5              | 23.2 | 22.0 |
| 4                          | 23.9 | 25.6 | 27.4 | 29.2 | 29.2 | 27.3 | 24.0 | 21.0 | 19.6 | 16.7 | 15.8 | 14.9 | 16.7 | 17.8 | 19.3 | 19.4 | 19.8 | 22.2 | 25.9 | 26.1 | 28.2 | 31.4 | 29.6              | 23.2 | 23.2 |
| 5                          | 28.7 | 31.0 | 31.8 | 31.7 | 30.3 | 28.1 | 25.6 | 22.3 | 22.3 | 20.1 | 17.2 | 15.7 | 15.7 | 17.2 | 19.0 | 20.5 | 20.4 | 20.5 | 21.8 | 22.0 | 22.4 | 25.4 | 22.4              | 29.4 | 23.4 |
| 6                          | 29.2 | 27.5 | 26.5 | 26.5 | 31.4 | 24.7 | 23.7 | 24.2 | 22.0 | 20.3 | 18.0 | 17.8 | 18.8 | 20.8 | 21.7 | 23.0 | 21.7 | 22.6 | 22.4 | 22.9 | 22.9 | 23.9 | 25.4              | 25.2 | 23.5 |
| 7                          | 26.0 | 27.4 | 27.6 | 28.2 | 28.3 | 27.7 | 25.4 | 23.4 | 19.7 | 17.6 | 15.6 | 16.4 | 18.3 | 18.8 | 22.7 | 24.7 | 22.4 | 21.1 | 20.7 | 21.4 | 22.3 | 23.4 | 25.1              | 24.6 | 22.9 |
| 8                          | 26.9 | 28.4 | 28.4 | 29.5 | 30.0 | 28.7 | 27.5 | 25.1 | 22.6 | 20.2 | 18.7 | 17.9 | 17.4 | 17.4 | 18.9 | 23.1 | 21.7 | 22.1 | 21.7 | 22.7 | 23.4 | 22.7 | 22.1              | 27.8 | 23.5 |
| 9                          | 27.5 | 25.5 | 25.7 | 28.7 | 27.9 | 27.5 | 26.5 | 23.4 | 20.6 | 19.5 | 17.9 | 17.4 | 20.7 | 19.5 | 20.3 | 22.5 | 22.0 | 21.5 | 22.0 | 22.0 | 23.3 | 25.3 | 26.1              | 24.5 | 23.2 |
| 10                         | 25.2 | 26.0 | 27.3 | 27.6 | 27.4 | 26.3 | 26.0 | 23.8 | 22.0 | 19.9 | 18.8 | 17.2 | 18.5 | 21.0 | 20.6 | 22.6 | 22.6 | 22.4 | 22.3 | 23.4 | 24.3 | 23.3 | 27.4              | 25.2 | 23.4 |
| 11                         | 24.7 | 26.5 | 27.7 | 27.6 | 27.8 | 27.6 | 25.6 | 24.2 | 21.9 | 18.8 | 17.4 | 16.8 | 17.2 | 19.0 | 20.8 | 22.3 | 22.6 | 22.7 | 22.9 | 22.6 | 23.5 | 24.6 | 24.5              | 25.4 | 23.1 |
| 12                         | 26.5 | 26.5 | 26.6 | 27.0 | 27.6 | 26.9 | 25.5 | 23.8 | 21.7 | 19.6 | 17.7 | 17.2 | 17.6 | 19.0 | 20.8 | 21.3 | 21.3 | 21.9 | 22.2 | 21.8 | 22.4 | 22.5 | 23.4              | 23.7 | 22.7 |
| 13                         | 25.4 | 25.6 | 27.0 | 27.6 | 27.6 | 26.9 | 25.1 | 22.9 | 20.0 | 18.6 | 16.7 | 16.1 | 16.6 | 19.2 | 21.6 | 22.1 | 22.0 | 22.7 | 22.4 | 22.0 | 21.5 | 22.3 | 22.6              | 23.1 | 22.4 |
| 14                         | 24.4 | 25.9 | 26.3 | 27.2 | 28.1 | 28.3 | 26.7 | 24.5 | 21.5 | 18.7 | 16.3 | 14.3 | 14.4 | 15.7 | 17.6 | 19.5 | 22.2 | 20.4 | 20.7 | 21.0 | 21.5 | 21.7 | 22.2              | 23.2 | 21.8 |
| 15                         | 23.6 | 25.4 | 27.1 | 27.3 | 26.8 | 25.4 | 24.2 | 23.3 | 21.1 | 20.0 | 18.7 | 18.0 | 19.3 | 19.9 | 19.9 | 20.3 | 20.1 | 20.7 | 21.2 | 21.7 | 21.7 | 21.3 | 22.4              | 22.6 | 22.2 |
| 16                         | 23.2 | 25.3 | 24.3 | 25.9 | 24.4 | 24.3 | 22.4 | 20.8 | 19.7 | 18.1 | 17.4 | 17.8 | 18.0 | 19.1 | 18.4 | 18.4 | 18.7 | 21.1 | 20.9 | 21.0 | 20.8 | 21.2 | 22.8              | 24.3 | 21.2 |
| 17                         | 24.1 | 21.6 | 22.1 | 23.8 | 24.6 | 19.7 | 19.5 | 20.1 | 19.5 | 17.3 | 15.7 | 16.9 | 20.8 | 20.3 | 22.0 | 19.0 | 25.0 | 24.0 | 22.2 | 21.8 | 22.2 | 23.8 | 24.8              | 24.5 | 21.5 |
| 18                         | 27.4 | 28.5 | 28.7 | 28.1 | 26.2 | 24.9 | 22.9 | 22.3 | 20.4 | 19.5 | 18.4 | 18.3 | 19.5 | 20.0 | 20.7 | 20.8 | 21.6 | 21.6 | 20.8 | 20.7 | 22.6 | 24.3 | 25.0              | 28.6 | 23.0 |
| 19                         | 29.9 | 30.0 | 28.9 | 27.7 | 26.7 | 25.2 | 23.7 | 21.2 | 18.5 | 17.5 | 16.6 | 16.4 | 19.6 | 22.0 | 22.8 | 21.8 | 21.6 | 22.3 | 23.4 | 21.8 | 22.5 | 23.4 | 23.8              | 24.5 | 23.0 |
| 20                         | 25.3 | 26.5 | 27.3 | 26.5 | 26.2 | 24.0 | 22.6 | 21.4 | 19.8 | 18.6 | 17.2 | 14.9 | 16.5 | 18.4 | 18.5 | 18.0 | 17.5 | 18.9 | 19.2 | 20.3 | 20.9 | 21.5 | 22.4              | 22.8 | 21.0 |
| 21                         | 23.0 | 24.6 | 25.7 | 25.0 | 23.1 | 21.8 | 21.6 | 18.9 | 15.0 | 14.3 | 15.8 | 14.8 | 18.6 | 20.8 | 20.1 | 24.1 | 28.5 | 22.8 | 23.0 | 23.3 | 22.4 | 23.1 | 24.1              | 25.4 | 21.7 |
| 22                         | 25.6 | 27.3 | 29.0 | 29.6 | 28.4 | 27.5 | 25.7 | 22.6 | 20.6 | 20.6 | 18.3 | 16.3 | 19.1 | 21.7 | 26.8 | 24.3 | 25.6 | 26.2 | 24.6 | 23.2 | 22.6 | 22.8 | 23.6              | 23.5 | 24.0 |
| 23                         | 22.9 | 25.5 | 26.7 | 27.7 | 26.7 | 25.0 | 21.5 | 20.1 | 19.3 | 17.2 | 14.7 | 14.7 | 17.4 | 18.7 | 19.6 | 20.8 | 21.7 | 23.8 | 24.3 | 23.7 | 22.0 | 24.3 | 25.6              | 17.9 | 21.7 |
| 24                         | 25.3 | 24.6 | 21.5 | 22.2 | 21.8 | 22.5 | 26.0 | 25.5 | 22.8 | 22.8 | 21.6 | 18.6 | 21.6 | 25.5 | 22.0 | 22.9 | 24.0 | 21.5 | 23.5 | 23.8 | 23.4 | 23.7 | 22.6              | 24.5 | 23.1 |
| 25                         | 25.5 | 26.9 | 26.9 | 24.6 | 24.3 | 25.6 | 23.0 | 24.0 | 23.2 | 21.8 | 19.4 | 17.1 | 17.7 | 20.2 | 22.7 | 23.2 | 23.7 | 25.2 | 23.3 | 22.6 | 22.7 | 22.6 | 25.5              | 23.8 | 23.1 |
| 26                         | 25.8 | 25.1 | 26.5 | 26.8 | 25.7 | 25.6 | 25.9 | 23.7 | 22.5 | 20.3 | 18.7 | 19.4 | 18.2 | 22.0 | 24.0 | 22.2 | 22.0 | 21.6 | 22.3 | 24.9 | 26.2 | 23.7 | 23.6              | 22.3 | 23.3 |
| 27                         | 20.6 | 17.6 | 22.0 | 25.8 | 26.8 | 26.4 | 26.4 | 25.7 | 23.3 | 20.2 | 16.7 | 15.9 | 17.7 | 20.9 | 22.8 | 25.1 | 23.0 | 21.7 | 21.8 | 22.5 | 23.4 | 23.1 | 20.7              | 23.5 | 22.2 |
| 28                         | 25.0 | 23.6 | 26.9 | 27.7 | 28.3 | 27.6 | 26.2 | 23.7 | 20.2 | 19.0 | 17.5 | 17.5 | 18.5 | 21.3 | 23.4 | 23.7 | 24.0 | 23.6 | 22.8 | 22.7 | 22.6 | 23.4 | 23.5              | 23.7 | 23.2 |
| 29                         | 24.3 | 25.3 | 26.8 | 27.1 | 27.6 | 27.6 | 25.9 | 23.3 | 21.1 | 19.0 | 17.8 | 16.8 | 17.6 | 19.6 | 20.3 | 20.8 | 20.7 | 19.6 | 20.7 | 21.2 | 22.6 | 24.7 | 24.5              | 21.7 | 22.4 |
| 30                         | 22.7 | 24.4 | 25.0 | 22.9 | 20.2 | 22.7 | 23.7 | 23.4 | 20.6 | 18.8 | 17.6 | 16.8 | 16.6 | 20.7 | 20.2 | 19.5 | 20.0 | 21.1 | 23.3 | 30.3 | 22.8 | 29.0 | 28.6              | 28.2 | 22.5 |
| 31                         | 22.2 | 22.5 | 27.1 | 27.7 | 29.7 | 27.8 | 24.5 | 23.1 | 20.3 | 18.2 | 16.7 | 14.8 | 17.6 | 21.1 | 19.7 | 21.0 | 21.2 | 20.9 | 24.5 | 22.7 | 24.2 | 23.7 | 25.7              | 22.4 | 22.5 |
| Среднее<br>по всем<br>дням | 25.1 | 25.8 | 26.7 | 27.1 | 27.0 | 26.0 | 24.7 | 23.1 | 20.8 | 19.1 | 17.5 | 16.8 | 18.0 | 19.8 | 20.9 | 21.6 | 22.0 | 21.9 | 22.2 | 22.7 | 22.8 | 23.7 | 24.2              | 24.4 | 22.7 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приблизительно с магнитограммы — ( )

Обработал Шульц Проверил Шульц

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55°50'N Долгота 48°51'E

Элемент Горизонтальная составляющая

Среднемес. H = 16546

Месяц Июль Год 1963

H = 16400 + . . . = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |     |                   |     |
| 1                          | 149 | 154 | 150 | 143 | 139 | 132 | 131 | 137 | 141 | 142 | 144 | 147 | 147 | 151 | 154 | 150 | 149 | 149 | 152 | 156 | 156 | 152 | 151 | 150               | 147 |
| 2                          | 152 | 154 | 155 | 148 | 137 | 132 | 132 | 133 | 136 | 138 | 141 | 149 | 144 | 148 | 153 | 158 | 160 | 158 | 159 | 156 | 154 | 152 | 157 | 157               | 148 |
| 3                          | 158 | 160 | 160 | 155 | 146 | 140 | 131 | 128 | 130 | 131 | 137 | 148 | 152 | 151 | 157 | 152 | 150 | 154 | 159 | 160 | 160 | 160 | 160 | 161               | 150 |
| 4                          | 162 | 164 | 166 | 156 | 144 | 138 | 130 | 141 | 151 | 157 | 159 | 149 | 161 | 142 | 157 | 147 | 148 | 162 | 160 | 179 | 157 | 146 | 159 | 154               | 154 |
| 5                          | 160 | 158 | 153 | 158 | 153 | 124 | 118 | 110 | 116 | 129 | 130 | 138 | 144 | 148 | 150 | 147 | 148 | 150 | 150 | 151 | 155 | 152 | 160 | 150               | 144 |
| 6                          | 154 | 159 | 157 | 152 | 111 | 115 | 119 | 104 | 105 | 121 | 120 | 131 | 138 | 142 | 144 | 143 | 148 | 152 | 157 | 156 | 147 | 147 | 144 | 148               | 138 |
| 7                          | 149 | 149 | 147 | 147 | 143 | 137 | 131 | 129 | 124 | 106 | 114 | 112 | 139 | 152 | 158 | 160 | 152 | 149 | 147 | 146 | 148 | 145 | 148 | 152               | 141 |
| 8                          | 156 | 158 | 153 | 149 | 140 | 134 | 129 | 128 | 126 | 138 | 139 | 140 | 150 | 159 | 159 | 165 | 156 | 157 | 160 | 160 | 160 | 164 | 173 | 164               | 151 |
| 9                          | 156 | 148 | 150 | 143 | 120 | 123 | 109 | 118 | 123 | 123 | 136 | 138 | 153 | 148 | 143 | 148 | 156 | 154 | 153 | 152 | 154 | 148 | 148 | 143               | 141 |
| 10                         | 150 | 154 | 156 | 144 | 140 | 137 | 122 | 127 | 127 | 136 | 140 | 142 | 148 | 152 | 158 | 163 | 162 | 157 | 158 | 159 | 160 | 157 | 156 | 148               | 148 |
| 11                         | 150 | 151 | 156 | 150 | 138 | 135 | 122 | 125 | 133 | 134 | 134 | 137 | 146 | 151 | 151 | 154 | 159 | 159 | 157 | 157 | 158 | 150 | 149 | 148               | 146 |
| 12                         | 151 | 154 | 155 | 153 | 149 | 136 | 128 | 126 | 126 | 132 | 139 | 140 | 145 | 152 | 156 | 156 | 157 | 159 | 159 | 157 | 156 | 159 | 159 | 158               | 148 |
| 13                         | 159 | 159 | 160 | 156 | 150 | 143 | 132 | 128 | 130 | 132 | 138 | 140 | 147 | 151 | 152 | 156 | 150 | 152 | 156 | 156 | 159 | 157 | 153 | 153               | 149 |
| 14                         | 155 | 157 | 157 | 154 | 150 | 146 | 140 | 138 | 140 | 144 | 150 | 148 | 151 | 151 | 161 | 158 | 158 | 161 | 164 | 164 | 164 | 164 | 164 | 162               | 154 |
| 15                         | 162 | 166 | 168 | 160 | 151 | 150 | 154 | 152 | 146 | 142 | 140 | 142 | 144 | 156 | 161 | 158 | 158 | 157 | 160 | 159 | 159 | 168 | 172 | 173               | 157 |
| 16                         | 172 | 164 | 160 | 155 | 154 | 156 | 156 | 148 | 147 | 150 | 148 | 147 | 150 | 150 | 158 | 163 | 167 | 170 | 166 | 167 | 166 | 166 | 164 | 166               | 159 |
| 17                         | 163 | 154 | 160 | 146 | 137 | 141 | 143 | 134 | 129 | 120 | 103 | 118 | 136 | 134 | 142 | 134 | 134 | 140 | 144 | 145 | 146 | 144 | 143 | 146               | 139 |
| 18                         | 143 | 148 | 148 | 140 | 134 | 133 | 126 | 126 | 125 | 122 | 124 | 129 | 130 | 140 | 152 | 159 | 141 | 149 | 152 | 157 | 156 | 157 | 160 | 149               | 142 |
| 19                         | 147 | 152 | 151 | 146 | 138 | 131 | 130 | 134 | 138 | 140 | 141 | 140 | 148 | 151 | 146 | 149 | 152 | 157 | 159 | 166 | 155 | 152 | 154 | 154               | 147 |
| 20                         | 158 | 157 | 152 | 144 | 139 | 138 | 143 | 146 | 148 | 143 | 142 | 153 | 161 | 162 | 162 | 167 | 171 | 171 | 177 | 176 | 164 | 160 | 159 | 163               | 156 |
| 21                         | 166 | 166 | 163 | 159 | 151 | 150 | 151 | 152 | 163 | 162 | 147 | 149 | 133 | 136 | 144 | 153 | 139 | 147 | 141 | 156 | 144 | 142 | 142 | 146               | 150 |
| 22                         | 149 | 149 | 145 | 137 | 129 | 124 | 107 | 111 | 118 | 127 | 140 | 145 | 139 | 154 | 160 | 153 | 150 | 152 | 142 | 148 | 151 | 150 | 148 | 147               | 141 |
| 23                         | 147 | 150 | 150 | 157 | 153 | 138 | 118 | 120 | 131 | 138 | 136 | 137 | 139 | 152 | 149 | 139 | 150 | 140 | 152 | 153 | 155 | 154 | 148 | 140               | 144 |
| 24                         | 158 | 144 | 139 | 116 | 126 | 117 | 106 | 118 | 120 | 108 | 124 | 139 | 131 | 150 | 160 | 163 | 158 | 152 | 145 | 141 | 146 | 150 | 144 | 149               | 138 |
| 25                         | 150 | 152 | 146 | 134 | 126 | 113 | 112 | 103 | 117 | 130 | 129 | 132 | 130 | 143 | 147 | 147 | 150 | 152 | 152 | 150 | 152 | 158 | 156 | 149               | 139 |
| 26                         | 153 | 154 | 153 | 145 | 135 | 132 | 127 | 120 | 116 | 124 | 129 | 124 | 141 | 144 | 149 | 147 | 145 | 151 | 156 | 163 | 151 | 150 | 146 | 150               | 142 |
| 27                         | 143 | 134 | 154 | 141 | 113 | 118 | 116 | 105 | 113 | 125 | 128 | 130 | 136 | 148 | 148 | 143 | 147 | 146 | 147 | 149 | 148 | 148 | 140 | 139               | 136 |
| 28                         | 134 | 139 | 149 | 148 | 140 | 135 | 127 | 130 | 127 | 126 | 133 | 132 | 139 | 146 | 142 | 141 | 141 | 144 | 146 | 146 | 147 | 147 | 148 | 148               | 140 |
| 29                         | 149 | 152 | 155 | 151 | 143 | 136 | 123 | 120 | 124 | 130 | 131 | 135 | 141 | 146 | 151 | 157 | 157 | 157 | 160 | 159 | 167 | 163 | 152 | 149               | 146 |
| 30                         | 159 | 166 | 168 | 149 | 139 | 147 | 142 | 120 | 103 | 128 | 127 | 130 | 127 | 118 | 126 | 150 | 155 | 152 | 156 | 162 | 176 | 149 | 143 | 146               | 143 |
| 31                         | 141 | 161 | 151 | 138 | 126 | 120 | 107 | 110 | 119 | 124 | 126 | 134 | 119 | 140 | 148 | 150 | 155 | 157 | 152 | 148 | 157 | 154 | 150 | 140               | 139 |
| Среднее<br>по всем<br>дням | 153 | 154 | 154 | 148 | 139 | 134 | 128 | 126 | 129 | 132 | 134 | 138 | 142 | 147 | 152 | 153 | 152 | 154 | 155 | 157 | 156 | 154 | 153 | 152               | 146 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал

В. В. В.

Проверил

В. В. В.

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55°50'N Долгота 48°51'E

Среднемесячи. 12 = 49773  
Элемент Вертикальная составляющая

Месяц Июль Год 1963

7 = 49600 + . . . = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |     |
| 1                          | 173 | 174 | 172 | 170 | 170 | 170 | 172 | 166 | 158 | 160 | 162 | 170 | 173 | 174 | 175 | 173 | 174 | 175 | 175 | 174 | 173 | 173 | 174               | 175 | 171 |     |
| 2                          | 177 | 177 | 177 | 177 | 177 | 172 | 165 | 164 | 162 | 158 | 154 | 165 | 173 | 173 | 172 | 175 | 173 | 172 | 172 | 172 | 172 | 172 | 172               | 171 |     |     |
| 3                          | 174 | 174 | 175 | 175 | 175 | 172 | 168 | 166 | 164 | 164 | 165 | 171 | 179 | 176 | 172 | 172 | 172 | 172 | 172 | 171 | 171 | 172 | 174               | 172 |     |     |
| 4                          | 174 | 172 | 171 | 170 | 171 | 168 | 164 | 153 | 143 | 145 | 153 | 159 | 165 | 159 | 172 | 179 | 175 | 177 | 177 | 166 | 154 | 154 | 152               | 160 | 164 |     |
| 5                          | 171 | 171 | 171 | 168 | 166 | 161 | 164 | 162 | 160 | 157 | 156 | 166 | 172 | 173 | 174 | 172 | 172 | 171 | 172 | 172 | 172 | 164 | 159               | 167 |     |     |
| 6                          | 167 | 168 | 166 | 163 | 163 | 160 | 162 | 165 | 164 | 161 | 164 | 173 | 179 | 179 | 184 | 187 | 181 | 177 | 172 | 168 | 171 | 172 | 173               | 175 | 171 |     |
| 7                          | 177 | 177 | 175 | 171 | 170 | 170 | 168 | 164 | 165 | 170 | 173 | 179 | 179 | 179 | 187 | 182 | 179 | 178 | 173 | 173 | 173 | 173 | 173               | 173 | 174 |     |
| 8                          | 172 | 175 | 175 | 173 | 172 | 172 | 172 | 172 | 166 | 166 | 164 | 170 | 173 | 177 | 179 | 185 | 179 | 179 | 176 | 172 | 172 | 170 | 160               | 158 | 172 |     |
| 9                          | 164 | 166 | 166 | 166 | 168 | 168 | 169 | 172 | 172 | 170 | 170 | 172 | 184 | 184 | 181 | 181 | 178 | 177 | 175 | 175 | 174 | 171 | 171               | 172 | 173 |     |
| 10                         | 175 | 175 | 175 | 172 | 169 | 169 | 172 | 172 | 169 | 169 | 171 | 175 | 172 | 178 | 179 | 180 | 178 | 178 | 177 | 177 | 172 | 169 | 167               | 170 | 173 |     |
| 11                         | 177 | 179 | 177 | 177 | 177 | 174 | 179 | 179 | 174 | 174 | 174 | 176 | 181 | 180 | 181 | 181 | 181 | 181 | 181 | 179 | 176 | 175 | 175               | 175 | 178 |     |
| 12                         | 176 | 175 | 174 | 174 | 174 | 170 | 166 | 166 | 166 | 166 | 170 | 174 | 175 | 174 | 172 | 176 | 177 | 177 | 175 | 175 | 175 | 175 | 175               | 175 | 173 |     |
| 13                         | 176 | 177 | 176 | 173 | 173 | 173 | 170 | 164 | 162 | 162 | 162 | 168 | 175 | 177 | 177 | 177 | 175 | 174 | 174 | 174 | 174 | 174 | 174               | 174 | 172 |     |
| 14                         | 174 | 174 | 174 | 174 | 173 | 166 | 161 | 158 | 158 | 158 | 158 | 161 | 169 | 172 | 174 | 176 | 177 | 174 | 173 | 173 | 173 | 173 | 174               | 174 | 170 |     |
| 15                         | 175 | 175 | 177 | 176 | 174 | 170 | 165 | 165 | 161 | 160 | 161 | 171 | 174 | 173 | 170 | 169 | 171 | 171 | 172 | 172 | 172 | 172 | 172               | 172 | 170 |     |
| 16                         | 172 | 172 | 172 | 169 | 170 | 164 | 161 | 163 | 160 | 162 | 168 | 170 | 172 | 174 | 176 | 176 | 174 | 174 | 174 | 174 | 174 | 174 | 171               | 170 |     |     |
| 17                         | 170 | 171 | 169 | 168 | 169 | 169 | 167 | 168 | 168 | 174 | 181 | 194 | 221 | 217 | 214 | 208 | 200 | 194 | 188 | 185 | 183 | 181 | 181               | 175 | 184 |     |
| 18                         | 175 | 179 | 179 | 177 | 174 | 167 | 164 | 166 | 167 | 166 | 174 | 181 | 187 | 189 | 191 | 192 | 186 | 187 | 184 | 181 | 181 | 177 | 172               | 169 | 178 |     |
| 19                         | 174 | 176 | 179 | 177 | 175 | 174 | 170 | 166 | 166 | 168 | 172 | 174 | 179 | 180 | 178 | 176 | 175 | 178 | 177 | 172 | 172 | 175 | 176               | 179 | 174 |     |
| 20                         | 179 | 178 | 176 | 174 | 172 | 167 | 160 | 159 | 159 | 160 | 165 | 168 | 169 | 169 | 167 | 167 | 168 | 170 | 170 | 171 | 172 | 172 | 174               | 174 | 169 |     |
| 21                         | 174 | 176 | 174 | 170 | 168 | 168 | 168 | 168 | 167 | 168 | 178 | 190 | 214 | 206 | 205 | 206 | 202 | 189 | 185 | 179 | 173 | 175 | 178               | 180 | 182 |     |
| 22                         | 181 | 181 | 179 | 175 | 173 | 171 | 172 | 177 | 177 | 179 | 177 | 182 | 182 | 187 | 190 | 189 | 190 | 184 | 181 | 181 | 179 | 178 | 177               | 177 | 180 |     |
| 23                         | 176 | 178 | 177 | 172 | 171 | 170 | 170 | 168 | 164 | 158 | 159 | 166 | 177 | 185 | 190 | 183 | 185 | 187 | 183 | 180 | 170 | 169 | 163               | 153 | 173 |     |
| 24                         | 162 | 165 | 165 | 164 | 168 | 169 | 169 | 174 | 174 | 174 | 173 | 179 | 189 | 194 | 187 | 190 | 190 | 181 | 180 | 179 | 179 | 172 | 171               | 175 | 176 |     |
| 25                         | 177 | 179 | 178 | 174 | 170 | 174 | 174 | 172 | 174 | 173 | 169 | 173 | 175 | 179 | 184 | 184 | 182 | 181 | 179 | 179 | 177 | 174 | 168               | 168 | 176 |     |
| 26                         | 167 | 169 | 172 | 172 | 170 | 166 | 168 | 168 | 169 | 167 | 164 | 174 | 180 | 184 | 187 | 182 | 178 | 175 | 175 | 174 | 171 | 168 | 171               | 174 | 173 |     |
| 27                         | 173 | 164 | 164 | 166 | 172 | 177 | 172 | 170 | 170 | 164 | 165 | 174 | 181 | 187 | 190 | 189 | 183 | 180 | 179 | 179 | 179 | 175 | 173               | 170 | 175 |     |
| 28                         | 173 | 170 | 168 | 172 | 173 | 169 | 173 | 176 | 174 | 166 | 172 | 178 | 181 | 184 | 184 | 181 | 179 | 179 | 177 | 177 | 177 | 177 | 177               | 178 | 176 |     |
| 29                         | 179 | 179 | 177 | 180 | 180 | 179 | 175 | 173 | 170 | 172 | 168 | 172 | 177 | 180 | 180 | 176 | 176 | 176 | 176 | 176 | 176 | 176 | 172               | 170 | 166 | 175 |
| 30                         | 165 | 162 | 165 | 170 | 170 | 162 | 160 | 160 | 170 | 170 | 170 | 176 | 189 | 199 | 192 | 186 | 181 | 180 | 181 | 174 | 156 | 158 | 166               | 167 | 172 |     |
| 31                         | 163 | 159 | 164 | 170 | 172 | 172 | 166 | 156 | 156 | 161 | 167 | 175 | 183 | 187 | 180 | 179 | 178 | 177 | 177 | 177 | 175 | 172 | 172               | 169 | 171 |     |
| Среднее<br>по всем<br>дням | 173 | 173 | 173 | 172 | 172 | 169 | 168 | 167 | 165 | 165 | 167 | 173 | 180 | 182 | 182 | 182 | 180 | 178 | 177 | 175 | 173 | 172 | 171               | 171 | 173 |     |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Ведомство Министерство Высшего Образования  
Обсерватория Казанская/Займичи/ Широта 55°50'N Долгота 48°51'E

Элемент Склонение Среднемесячн.  $\delta = 10^{\circ}23'3$   
 $\delta = 10^{\circ}$  + . . . =       ° =       '

Месяц Август Год 1963

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |      |
| 1                          | 21.5 | 26.8 | 26.7 | 26.4 | 27.7 | 28.3 | 24.6 | 24.3 | 21.5 | 18.6 | 17.7 | 17.4 | 18.0 | 19.8 | 24.2 | 24.6 | 25.4 | 23.3 | 22.4 | 22.2 | 24.4 | 23.4 | 24.7              | 23.3 |      |
| 2                          | 25.4 | 25.4 | 27.5 | 27.4 | 28.5 | 27.7 | 24.5 | 21.0 | 17.9 | 17.1 | 17.0 | 17.5 | 18.6 | 19.6 | 21.1 | 23.1 | 21.5 | 22.7 | 24.2 | 23.4 | 24.9 | 25.4 | 22.4              | 22.7 |      |
| 3                          | 23.6 | 25.4 | 26.5 | 28.4 | 28.4 | 28.3 | 25.9 | 21.8 | 18.4 | 16.4 | 15.6 | 16.4 | 17.4 | 18.7 | 21.4 | 22.7 | 21.4 | 22.5 | 20.9 | 22.1 | 22.3 | 24.6 | 26.1              | 26.6 | 22.5 |
| 4                          | 24.4 | 25.8 | 27.7 | 28.6 | 28.6 | 27.4 | 24.4 | 20.4 | 17.6 | 16.8 | 16.4 | 18.4 | 21.4 | 26.7 | 24.6 | 24.6 | 23.7 | 21.6 | 21.4 | 22.9 | 26.4 | 26.4 | 25.6              | 24.6 | 23.6 |
| 5                          | 22.6 | 26.4 | 28.6 | 26.5 | 27.6 | 26.4 | 24.3 | 20.7 | 18.7 | 18.3 | 16.7 | 17.6 | 21.7 | 20.6 | 21.7 | 21.4 | 20.7 | 20.6 | 20.9 | 22.3 | 21.0 | 24.8 | 25.8              | 25.6 | 22.6 |
| 6                          | 27.4 | 27.9 | 29.3 | 27.3 | 25.6 | 25.4 | 23.4 | 21.5 | 19.3 | 17.8 | 18.1 | 19.8 | 20.5 | 21.6 | 23.1 | 23.4 | 23.6 | 24.9 | 22.1 | 22.6 | 23.4 | 20.8 | 23.4              | 25.0 | 23.2 |
| 7                          | 23.4 | 23.4 | 23.0 | 28.3 | 27.5 | 27.7 | 26.7 | 24.5 | 21.7 | 19.7 | 17.7 | 16.0 | 16.5 | 21.7 | 21.4 | 22.4 | 22.6 | 22.6 | 22.5 | 22.6 | 23.3 | 23.4 | 23.7              | 23.4 | 22.7 |
| 8                          | 23.4 | 24.7 | 27.4 | 28.9 | 28.5 | 28.1 | 26.0 | 23.7 | 20.6 | 17.5 | 15.3 | 15.4 | 17.4 | 19.8 | 21.6 | 22.6 | 23.4 | 22.3 | 22.3 | 22.5 | 22.7 | 22.8 | 22.7              | 23.0 | 22.6 |
| 9                          | 23.4 | 23.5 | 24.4 | 26.8 | 27.6 | 27.8 | 24.4 | 21.2 | 18.4 | 17.3 | 16.4 | 16.8 | 18.5 | 20.4 | 21.6 | 22.6 | 22.5 | 22.4 | 22.6 | 22.4 | 22.7 | 22.7 | 23.2              | 23.4 | 22.2 |
| 10                         | 24.6 | 26.4 | 28.4 | 29.4 | 29.8 | 28.5 | 25.7 | 22.4 | 19.0 | 17.6 | 17.4 | 17.8 | 19.4 | 20.7 | 20.3 | 28.3 | 21.7 | 21.4 | 22.5 | 21.7 | 22.6 | 22.6 | 22.7              | 22.7 | 23.1 |
| 11                         | 23.5 | 24.6 | 27.4 | 28.5 | 29.0 | 28.4 | 26.0 | 22.6 | 18.2 | 15.6 | 15.1 | 15.6 | 17.4 | 20.6 | 22.9 | 23.4 | 23.4 | 23.0 | 22.6 | 22.6 | 23.6 | 22.6 | 22.6              | 23.9 | 22.6 |
| 12                         | 24.5 | 25.5 | 27.4 | 28.7 | 29.0 | 28.4 | 26.4 | 22.7 | 19.4 | 16.4 | 15.4 | 16.8 | 19.4 | 21.0 | 21.4 | 22.0 | 21.4 | 22.7 | 23.0 | 22.6 | 21.5 | 23.6 | 24.1              | 24.0 | 22.8 |
| 13                         | 24.6 | 25.5 | 26.4 | 25.4 | 25.7 | 25.0 | 23.4 | 21.1 | 18.5 | 16.7 | 16.7 | 17.6 | 19.5 | 21.3 | 21.6 | 21.4 | 21.6 | 21.9 | 21.9 | 22.8 | 23.7 | 24.0 | 24.5              | 25.0 | 22.3 |
| 14                         | 26.5 | 26.2 | 27.1 | 27.6 | 27.4 | 26.6 | 24.5 | 22.4 | 20.4 | 19.1 | 19.4 | 19.6 | 19.8 | 21.6 | 22.1 | 21.4 | 20.5 | 21.1 | 21.2 | 22.2 | 22.6 | 22.6 | 23.2              | 23.5 | 22.9 |
| 15                         | 24.2 | 24.6 | 25.4 | 25.4 | 25.4 | 24.8 | 23.6 | 21.8 | 20.3 | 18.3 | 17.6 | 17.9 | 18.3 | 19.7 | 19.7 | 19.4 | 19.7 | 19.8 | 22.8 | 23.0 | 26.4 | 27.0 | 27.9              | 26.0 | 22.5 |
| 16                         | 25.7 | 26.6 | 26.7 | 27.2 | 26.9 | 24.7 | 22.3 | 19.6 | 17.4 | 16.8 | 16.9 | 18.3 | 19.7 | 21.6 | 22.3 | 21.7 | 21.5 | 23.6 | 22.3 | 23.6 | 23.0 | 23.7 | 24.4              | 24.4 | 22.5 |
| 17                         | 24.4 | 24.2 | 26.4 | 27.4 | 27.8 | 28.1 | 25.4 | 21.1 | 17.4 | 15.7 | 17.7 | 18.9 | 20.6 | 22.2 | 21.7 | 21.4 | 21.0 | 19.9 | 20.7 | 22.5 | 20.4 | 23.7 | 23.4              | 24.6 | 22.4 |
| 18                         | 24.8 | 25.4 | 25.7 | 24.6 | 24.0 | 22.2 | 20.6 | 19.5 | 18.5 | 14.7 | 15.7 | 18.7 | 17.0 | 20.6 | 27.5 | 25.6 | 24.6 | 22.7 | 22.6 | 23.4 | 23.4 | 25.4 | 22.6              | 25.6 | 22.3 |
| 19                         | 25.7 | 26.5 | 28.6 | 27.4 | 26.6 | 25.6 | 23.7 | 21.7 | 20.5 | 19.8 | 20.2 | 20.7 | 22.4 | 22.6 | 22.6 | 23.6 | 21.8 | 23.5 | 34.3 | 29.7 | 35.7 | 38.5 | 42.0              | 35.4 | 26.6 |
| 20                         | 25.4 | 28.6 | 18.6 | 23.4 | 24.6 | 28.2 | 21.6 | 21.6 | 22.4 | 21.4 | 24.6 | 23.6 | 32.5 | 26.4 | 26.0 | 26.4 | 27.5 | 26.3 | 25.6 | 25.4 | 24.9 | 23.2 | 24.8              | 24.6 | 24.9 |
| 21                         | 19.6 | 24.4 | 28.6 | 26.7 | 28.8 | 27.8 | 25.8 | 26.2 | 22.5 | 20.7 | 19.7 | 20.4 | 26.0 | 25.9 | 28.5 | 26.7 | 23.0 | 22.3 | 23.1 | 23.4 | 22.7 | 22.2 | 23.5              | 26.4 | 24.4 |
| 22                         | 27.4 | 27.5 | 28.5 | 29.3 | 29.5 | 28.7 | 27.4 | 24.6 | 22.6 | 18.8 | 17.6 | 19.7 | 21.4 | 24.5 | 26.7 | 24.6 | 23.7 | 23.2 | 22.7 | 22.5 | 23.8 | 25.4 | 24.5              | 22.4 | 24.5 |
| 23                         | 25.6 | 26.6 | 22.4 | 25.6 | 29.4 | 28.6 | 25.9 | 23.0 | 21.9 | 20.4 | 19.7 | 19.8 | 23.4 | 27.7 | 28.5 | 26.0 | 24.6 | 23.7 | 23.0 | 23.6 | 23.7 | 24.4 | 24.9              | 24.5 | 24.5 |
| 24                         | 25.6 | 21.6 | 25.4 | 28.6 | 28.5 | 28.7 | 27.4 | 25.5 | 22.7 | 22.4 | 20.6 | 21.5 | 21.6 | 23.4 | 25.9 | 24.8 | 23.4 | 23.5 | 24.4 | 25.6 | 24.5 | 23.6 | 25.4              | 25.6 | 24.6 |
| 25                         | 25.9 | 26.6 | 28.3 | 28.6 | 28.7 | 27.2 | 25.1 | 22.3 | 19.4 | 17.6 | 17.7 | 19.3 | 19.4 | 20.6 | 20.3 | 20.5 | 21.4 | 21.2 | 22.6 | 22.9 | 23.7 | 23.6 | 25.5              | 23.8 | 23.0 |
| 26                         | 27.5 | 24.7 | 27.5 | 27.9 | 28.4 | 27.4 | 26.3 | 22.4 | 19.6 | 18.2 | 18.4 | 19.6 | 20.7 | 21.5 | 20.7 | 20.7 | 21.5 | 21.7 | 25.8 | 22.9 | 23.0 | 24.0 | 24.2              | 24.4 | 23.3 |
| 27                         | 26.4 | 27.0 | 27.7 | 27.7 | 27.7 | 27.5 | 25.5 | 21.9 | 19.4 | 16.4 | 15.5 | 17.7 | 20.2 | 21.6 | 21.4 | 23.0 | 25.5 | 25.3 | 26.4 | 26.2 | 18.5 | 26.4 | 27.5              | 25.6 | 23.7 |
| 28                         | 28.3 | 27.7 | 28.3 | 28.6 | 28.5 | 26.7 | 25.0 | 22.8 | 19.4 | 17.4 | 20.5 | 23.3 | 22.6 | 22.7 | 24.6 | 24.5 | 23.0 | 24.7 | 23.5 | 28.6 | 20.4 | 24.0 | 25.0              | 26.4 | 24.4 |
| 29                         | 26.6 | 27.5 | 26.8 | 27.2 | 27.5 | 26.6 | 23.6 | 19.3 | 17.0 | 17.6 | 17.8 | 18.4 | 23.3 | 23.2 | 24.6 | 22.4 | 21.4 | 21.6 | 22.6 | 27.0 | 23.6 | 22.5 | 26.4              | 25.7 | 23.3 |
| 30                         | 25.5 | 26.6 | 27.7 | 27.5 | 27.2 | 26.5 | 24.4 | 22.6 | 20.6 | 19.2 | 18.9 | 19.7 | 22.0 | 23.9 | 24.4 | 24.3 | 27.7 | 24.4 | 24.7 | 25.5 | 24.0 | 24.7 | 24.4              | 22.7 | 24.1 |
| 31                         | 22.6 | 24.6 | 26.6 | 27.4 | 27.4 | 26.5 | 25.5 | 22.4 | 19.4 | 17.4 | 17.7 | 19.3 | 19.9 | 23.6 | 27.4 | 28.6 | 28.8 | 27.4 | 23.0 | 22.3 | 22.8 | 23.5 | 23.3              | 18.4 | 23.6 |
| Среднее<br>по всем<br>дням | 24.8 | 25.7 | 26.7 | 27.4 | 27.7 | 27.1 | 24.8 | 22.2 | 19.7 | 18.0 | 17.8 | 18.7 | 20.5 | 22.1 | 23.3 | 23.5 | 23.0 | 22.8 | 23.2 | 23.7 | 23.4 | 24.4 | 25.0              | 24.7 | 23.3 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитогаммы — ( )

Обработал Шульц Проверил Шульц

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займиш/ Широта 55°50'N Долгота 48°51'E

Среднемесячи. Н = 16538

Элемент Горизонтальная составляющая

Н = 16400 + ... = 0

Месяц Август Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                  |     |     |
| 1                          | 138 | 150 | 140 | 147 | 134 | 128 | 131 | 128 | 132 | 137 | 137 | 137 | 132 | 138 | 139 | 149 | 146 | 150 | 150 | 150 | 154 | 139 | 145              | 141 |     |
| 2                          | 143 | 136 | 138 | 136 | 126 | 104 | 88  | 117 | 119 | 123 | 123 | 128 | 137 | 140 | 142 | 143 | 150 | 152 | 162 | 160 | 168 | 148 | 139              | 137 | 136 |
| 3                          | 143 | 143 | 143 | 135 | 123 | 114 | 118 | 118 | 118 | 125 | 136 | 145 | 150 | 151 | 150 | 147 | 151 | 151 | 154 | 156 | 158 | 148 | 146              | 140 | 140 |
| 4                          | 140 | 144 | 147 | 139 | 134 | 125 | 110 | 98  | 117 | 129 | 142 | 140 | 137 | 132 | 144 | 138 | 137 | 141 | 147 | 150 | 160 | 144 | 140              | 143 | 137 |
| 5                          | 140 | 142 | 140 | 127 | 118 | 117 | 117 | 111 | 117 | 121 | 131 | 127 | 138 | 147 | 150 | 149 | 146 | 146 | 148 | 150 | 158 | 158 | 156              | 144 | 137 |
| 6                          | 148 | 146 | 140 | 133 | 113 | 109 | 119 | 133 | 137 | 140 | 140 | 141 | 151 | 148 | 144 | 142 | 156 | 167 | 155 | 150 | 152 | 160 | 153              | 150 | 143 |
| 7                          | 142 | 140 | 143 | 140 | 138 | 140 | 136 | 125 | 120 | 120 | 130 | 141 | 148 | 146 | 149 | 143 | 144 | 147 | 153 | 150 | 149 | 149 | 149              | 149 | 141 |
| 8                          | 149 | 147 | 152 | 146 | 137 | 130 | 128 | 126 | 118 | 121 | 129 | 134 | 147 | 151 | 146 | 140 | 141 | 147 | 149 | 150 | 150 | 154 | 154              | 152 | 142 |
| 9                          | 151 | 159 | 156 | 143 | 126 | 118 | 114 | 114 | 116 | 120 | 122 | 129 | 127 | 132 | 137 | 143 | 144 | 147 | 148 | 151 | 150 | 158 | 158              | 159 | 138 |
| 10                         | 154 | 156 | 159 | 152 | 142 | 130 | 117 | 112 | 115 | 121 | 134 | 137 | 141 | 142 | 146 | 146 | 136 | 140 | 142 | 150 | 150 | 150 | 150              | 150 | 140 |
| 11                         | 150 | 150 | 153 | 150 | 141 | 130 | 120 | 116 | 115 | 120 | 127 | 133 | 141 | 146 | 150 | 144 | 143 | 141 | 142 | 146 | 147 | 152 | 149              | 148 | 140 |
| 12                         | 150 | 150 | 151 | 148 | 140 | 128 | 111 | 111 | 122 | 136 | 140 | 139 | 140 | 149 | 154 | 149 | 150 | 154 | 154 | 152 | 158 | 152 | 149              | 148 | 143 |
| 13                         | 149 | 149 | 150 | 149 | 146 | 140 | 134 | 130 | 134 | 143 | 146 | 147 | 148 | 143 | 146 | 151 | 151 | 155 | 156 | 160 | 154 | 149 | 148              | 149 | 147 |
| 14                         | 149 | 149 | 153 | 149 | 143 | 140 | 131 | 126 | 130 | 133 | 141 | 146 | 147 | 149 | 149 | 153 | 154 | 155 | 160 | 161 | 161 | 162 | 162              | 160 | 148 |
| 15                         | 160 | 162 | 163 | 157 | 149 | 142 | 142 | 142 | 141 | 147 | 149 | 148 | 158 | 153 | 156 | 160 | 160 | 156 | 169 | 160 | 147 | 163 | 154              | 151 | 154 |
| 16                         | 153 | 150 | 145 | 141 | 134 | 130 | 128 | 130 | 133 | 139 | 142 | 146 | 149 | 150 | 154 | 150 | 154 | 156 | 152 | 153 | 147 | 148 | 146              | 146 | 145 |
| 17                         | 147 | 156 | 160 | 154 | 144 | 137 | 130 | 124 | 126 | 130 | 124 | 135 | 144 | 146 | 149 | 150 | 156 | 157 | 161 | 156 | 159 | 154 | 150              | 146 | 146 |
| 18                         | 148 | 149 | 142 | 140 | 138 | 127 | 121 | 131 | 130 | 123 | 132 | 120 | 151 | 122 | 108 | 124 | 132 | 136 | 140 | 141 | 144 | 152 | 148              | 141 | 135 |
| 19                         | 140 | 140 | 138 | 130 | 124 | 122 | 124 | 126 | 130 | 132 | 132 | 135 | 137 | 135 | 137 | 143 | 142 | 144 | 158 | 136 | 139 | 136 | 115              | 120 | 134 |
| 20                         | 132 | 94  | 83  | 112 | 97  | 51  | 40  | 55  | 93  | 93  | 112 | 110 | 132 | 121 | 114 | 119 | 151 | 128 | 128 | 130 | 135 | 143 | 140              | 127 | 110 |
| 21                         | 116 | 130 | 121 | 116 | 111 | 110 | 103 | 81  | 92  | 96  | 112 | 128 | 136 | 131 | 120 | 132 | 132 | 131 | 135 | 133 | 136 | 133 | 127              | 130 | 120 |
| 22                         | 130 | 134 | 133 | 130 | 123 | 115 | 104 | 100 | 106 | 127 | 135 | 134 | 138 | 140 | 136 | 131 | 131 | 147 | 142 | 144 | 143 | 135 | 134              | 139 | 130 |
| 23                         | 142 | 149 | 122 | 110 | 97  | 88  | 76  | 98  | 94  | 96  | 93  | 96  | 107 | 108 | 119 | 136 | 131 | 130 | 130 | 130 | 130 | 132 | 136              | 135 | 116 |
| 24                         | 134 | 126 | 137 | 140 | 132 | 122 | 119 | 117 | 110 | 110 | 117 | 121 | 128 | 132 | 125 | 128 | 136 | 137 | 140 | 140 | 144 | 146 | 144              | 147 | 130 |
| 25                         | 147 | 148 | 140 | 131 | 125 | 123 | 126 | 120 | 118 | 120 | 136 | 134 | 142 | 143 | 141 | 146 | 148 | 148 | 150 | 154 | 160 | 157 | 147              | 144 | 140 |
| 26                         | 140 | 140 | 143 | 136 | 120 | 102 | 111 | 120 | 124 | 129 | 137 | 140 | 144 | 146 | 147 | 138 | 142 | 149 | 158 | 149 | 147 | 145 | 149              | 150 | 138 |
| 27                         | 151 | 150 | 148 | 141 | 138 | 128 | 127 | 126 | 123 | 127 | 140 | 148 | 150 | 149 | 142 | 143 | 152 | 154 | 152 | 136 | 150 | 147 | 144              | 144 | 142 |
| 28                         | 141 | 143 | 143 | 136 | 127 | 121 | 120 | 128 | 130 | 126 | 108 | 108 | 116 | 126 | 139 | 143 | 145 | 162 | 181 | 148 | 137 | 158 | 139              | 130 | 136 |
| 29                         | 138 | 136 | 129 | 131 | 126 | 122 | 120 | 125 | 123 | 120 | 121 | 137 | 145 | 154 | 137 | 138 | 140 | 147 | 148 | 154 | 145 | 149 | 143              | 146 | 136 |
| 30                         | 144 | 143 | 140 | 133 | 126 | 122 | 125 | 128 | 131 | 134 | 139 | 139 | 147 | 145 | 143 | 146 | 156 | 147 | 154 | 166 | 153 | 146 | 148              | 144 | 142 |
| 31                         | 142 | 142 | 135 | 136 | 134 | 124 | 111 | 109 | 116 | 120 | 135 | 143 | 149 | 138 | 135 | 139 | 184 | 156 | 140 | 146 | 149 | 148 | 150              | 141 | 138 |
| Среднее<br>по всем<br>дням | 144 | 144 | 142 | 138 | 129 | 121 | 116 | 117 | 120 | 124 | 130 | 134 | 141 | 140 | 140 | 142 | 146 | 148 | 150 | 149 | 149 | 149 | 145              | 144 | 138 |

Ведомство Министерство высшего образования  
Обсерватория Казанская /Займица/ Широта 55°50'N Долгота 48°51'E  
Месяц Август Год 1963

Среднемесячи. Σ = 49779

Элемент Вертикальная составляющая  
Σ = 49600 + . . . = . . .

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 165 | 171 | 171 | 172 | 174 | 178 | 176 | 174 | 170 | 170 | 170 | 174 | 178 | 186 | 190 | 194 | 190 | 185 | 182 | 176 | 170 | 164 | 168               | 172 | 176 |
| 2                          | 176 | 176 | 178 | 178 | 177 | 174 | 170 | 170 | 172 | 172 | 172 | 176 | 182 | 182 | 182 | 182 | 178 | 178 | 176 | 172 | 166 | 166 | 170               | 170 | 175 |
| 3                          | 170 | 170 | 174 | 176 | 175 | 175 | 166 | 162 | 162 | 165 | 171 | 175 | 180 | 180 | 177 | 178 | 176 | 176 | 176 | 175 | 170 | 169 | 171               | 174 | 173 |
| 4                          | 176 | 176 | 175 | 175 | 174 | 170 | 170 | 169 | 169 | 178 | 183 | 192 | 199 | 206 | 198 | 194 | 189 | 183 | 182 | 179 | 174 | 170 | 173               | 175 | 180 |
| 5                          | 171 | 174 | 176 | 176 | 177 | 178 | 176 | 172 | 170 | 174 | 181 | 187 | 192 | 187 | 183 | 178 | 176 | 176 | 180 | 180 | 175 | 169 | 169               | 172 | 177 |
| 6                          | 176 | 178 | 178 | 178 | 178 | 180 | 178 | 170 | 170 | 174 | 176 | 183 | 184 | 184 | 183 | 182 | 182 | 176 | 175 | 176 | 176 | 171 | 168               | 170 | 177 |
| 7                          | 172 | 172 | 172 | 172 | 172 | 170 | 172 | 173 | 169 | 170 | 173 | 175 | 183 | 187 | 183 | 180 | 176 | 176 | 176 | 176 | 176 | 176 | 176               | 175 | 175 |
| 8                          | 175 | 176 | 176 | 176 | 180 | 180 | 176 | 172 | 169 | 170 | 170 | 176 | 179 | 182 | 182 | 177 | 176 | 176 | 176 | 176 | 175 | 175 | 175               | 175 | 176 |
| 9                          | 176 | 176 | 176 | 175 | 175 | 170 | 173 | 174 | 174 | 172 | 173 | 176 | 180 | 184 | 183 | 182 | 176 | 176 | 176 | 176 | 176 | 176 | 175               | 175 | 176 |
| 10                         | 179 | 181 | 181 | 181 | 179 | 173 | 174 | 178 | 174 | 173 | 176 | 179 | 185 | 189 | 188 | 191 | 182 | 181 | 181 | 179 | 179 | 179 | 179               | 179 | 180 |
| 11                         | 180 | 184 | 181 | 179 | 179 | 179 | 178 | 175 | 173 | 172 | 174 | 177 | 181 | 183 | 185 | 179 | 179 | 179 | 179 | 179 | 179 | 177 | 176               | 179 | 179 |
| 12                         | 179 | 181 | 181 | 179 | 179 | 180 | 179 | 173 | 171 | 173 | 179 | 181 | 179 | 179 | 175 | 173 | 175 | 177 | 178 | 178 | 175 | 174 | 175               | 177 | 177 |
| 13                         | 178 | 179 | 179 | 180 | 181 | 181 | 179 | 173 | 166 | 167 | 177 | 183 | 183 | 181 | 179 | 178 | 178 | 178 | 178 | 177 | 175 | 177 | 177               | 177 | 178 |
| 14                         | 178 | 181 | 179 | 177 | 177 | 175 | 173 | 173 | 171 | 173 | 175 | 175 | 178 | 175 | 175 | 175 | 175 | 175 | 176 | 175 | 175 | 175 | 175               | 175 | 175 |
| 15                         | 176 | 177 | 175 | 174 | 171 | 166 | 161 | 161 | 165 | 168 | 171 | 172 | 173 | 173 | 173 | 173 | 175 | 178 | 176 | 173 | 174 | 167 | 163               | 172 | 171 |
| 16                         | 173 | 176 | 177 | 177 | 176 | 171 | 166 | 166 | 169 | 171 | 175 | 179 | 179 | 178 | 176 | 173 | 178 | 178 | 176 | 174 | 174 | 174 | 177               | 177 | 175 |
| 17                         | 178 | 178 | 177 | 179 | 179 | 175 | 173 | 173 | 173 | 177 | 179 | 175 | 175 | 174 | 173 | 171 | 173 | 173 | 173 | 175 | 173 | 167 | 167               | 173 | 174 |
| 18                         | 176 | 178 | 179 | 178 | 175 | 175 | 173 | 172 | 171 | 172 | 179 | 178 | 194 | 216 | 222 | 205 | 193 | 186 | 184 | 184 | 179 | 173 | 168               | 175 | 183 |
| 19                         | 179 | 181 | 181 | 179 | 179 | 177 | 176 | 177 | 177 | 178 | 179 | 179 | 181 | 181 | 179 | 179 | 179 | 185 | 173 | 163 | 165 | 141 | 129               | 104 | 171 |
| 20                         | 132 | 135 | 154 | 151 | 160 | 167 | 181 | 187 | 185 | 188 | 202 | 211 | 228 | 216 | 201 | 197 | 195 | 189 | 189 | 189 | 188 | 181 | 179               | 180 | 183 |
| 21                         | 173 | 175 | 180 | 181 | 181 | 181 | 180 | 181 | 191 | 195 | 195 | 197 | 208 | 208 | 202 | 195 | 188 | 188 | 188 | 188 | 187 | 181 | 177               | 179 | 187 |
| 22                         | 182 | 188 | 188 | 188 | 188 | 182 | 181 | 181 | 184 | 187 | 187 | 187 | 185 | 189 | 188 | 184 | 183 | 183 | 183 | 183 | 183 | 183 | 181               | 174 | 184 |
| 23                         | 174 | 169 | 168 | 172 | 174 | 175 | 179 | 181 | 182 | 186 | 195 | 206 | 220 | 226 | 213 | 201 | 195 | 192 | 190 | 189 | 188 | 188 | 188               | 187 | 189 |
| 24                         | 183 | 179 | 175 | 179 | 181 | 179 | 180 | 180 | 182 | 186 | 188 | 192 | 197 | 199 | 196 | 192 | 188 | 188 | 187 | 187 | 183 | 183 | 183               | 183 | 185 |
| 25                         | 183 | 186 | 187 | 188 | 188 | 186 | 181 | 174 | 173 | 175 | 181 | 181 | 181 | 185 | 183 | 182 | 184 | 184 | 185 | 184 | 179 | 178 | 175               | 180 | 182 |
| 26                         | 179 | 183 | 183 | 183 | 181 | 175 | 175 | 177 | 179 | 181 | 183 | 187 | 190 | 189 | 188 | 183 | 183 | 183 | 183 | 181 | 182 | 182 | 182               | 181 | 182 |
| 27                         | 179 | 181 | 181 | 181 | 181 | 177 | 175 | 169 | 163 | 166 | 172 | 181 | 187 | 189 | 191 | 188 | 189 | 187 | 182 | 182 | 169 | 167 | 173               | 177 | 179 |
| 28                         | 180 | 185 | 185 | 181 | 182 | 183 | 183 | 180 | 176 | 178 | 191 | 207 | 210 | 199 | 196 | 192 | 189 | 183 | 169 | 167 | 168 | 167 | 162               | 169 | 183 |
| 29                         | 178 | 181 | 183 | 185 | 185 | 184 | 181 | 177 | 179 | 187 | 194 | 192 | 198 | 197 | 195 | 188 | 187 | 187 | 187 | 185 | 182 | 181 | 181               | 181 | 186 |
| 30                         | 183 | 184 | 184 | 183 | 183 | 183 | 180 | 176 | 177 | 176 | 180 | 184 | 187 | 188 | 188 | 187 | 188 | 183 | 184 | 179 | 176 | 180 | 183               | 181 | 182 |
| 31                         | 177 | 178 | 179 | 180 | 179 | 175 | 175 | 172 | 172 | 172 | 174 | 179 | 187 | 195 | 201 | 204 | 185 | 176 | 183 | 185 | 185 | 183 | 180               | 173 | 181 |
| Среднее<br>по всем<br>дням | 175 | 177 | 178 | 178 | 178 | 177 | 175 | 174 | 173 | 176 | 180 | 184 | 188 | 190 | 188 | 185 | 183 | 181 | 180 | 179 | 177 | 174 | 173               | 174 | 179 |

Ведомство Министерство Высшего Образования  
Обсерватория Казанская / Займиш Широта 55° 50' N Долгота 48° 51' E

Элемент

Смещение

Среднемесячн.

2 = 10° 24' 7

Месяц Сентябрь Год 1963

2 = 10° + . . . = . . .

| Время<br>мировое           |         |      |      |      |      |      |        |        |      |      |      |      |        |      |      |        |        |      |      |      |      |      | Средн.<br>суточн. |      |
|----------------------------|---------|------|------|------|------|------|--------|--------|------|------|------|------|--------|------|------|--------|--------|------|------|------|------|------|-------------------|------|
| Дни                        | 1       | 2    | 3    | 4    | 5    | 6    | 7      | 8      | 9    | 10   | 11   | 12   | 13     | 14   | 15   | 16     | 17     | 19   | 20   | 21   | 22   | 23   |                   |      |
| 1                          | 21.6    | 21.6 | 22.2 | 22.9 | 23.3 | 23.8 | 24.1   | 24.3   | 24.3 | 24.0 | 23.3 | 22.5 | 21.6   | 20.6 | 19.5 | 18.3   | 17.0   | 23.7 | 23.9 | 24.3 | 23.4 | 24.4 | 23.6              | 22.9 |
| 2                          | 24.6    | 24.8 | 26.7 | 27.2 | 26.7 | 25.6 | 23.9   | 21.2   | 19.0 | 18.7 | 19.3 | 20.3 | 21.7   | 22.7 | 22.7 | 22.1   | 22.8   | 23.3 | 24.5 | 21.4 | 20.7 | 22.4 | 25.7              | 22.9 |
| 3                          | 26.8    | 24.7 | 25.7 | 26.4 | 26.8 | 25.1 | 23.4   | 20.8   | 18.4 | 16.9 | 17.9 | 19.4 | 20.8   | 21.9 | 24.2 | 23.8   | 22.8   | 22.8 | 23.1 | 23.4 | 25.3 | 25.0 | 24.8              | 23.2 |
| 4                          | 25.3    | 25.9 | 26.6 | 26.5 | 26.5 | 25.6 | 23.0   | 20.4   | 19.1 | 18.3 | 18.6 | 20.4 | 21.5   | 22.2 | 22.5 | 21.7   | 21.9   | 22.4 | 23.7 | 22.8 | 24.9 | 25.7 | 30.3              | 23.3 |
| 5                          | 27.4    | 24.9 | 26.3 | 26.7 | 26.7 | 25.8 | 23.6   | 20.8   | 18.6 | 17.3 | 17.2 | 18.8 | 18.3   | 19.0 | 18.7 | 19.7   | 19.7   | 22.4 | 22.6 | 23.4 | 23.2 | 22.6 | 21.6              | 21.9 |
| 6                          | 22.4    | 26.1 | 27.4 | 28.0 | 27.1 | 25.4 | 23.0   | 19.7   | 17.3 | 16.0 | 17.2 | 19.5 | 20.5   | 22.4 | 22.3 | 22.4   | 23.7   | 22.6 | 23.2 | 23.3 | 22.1 | 21.8 | 22.5              | 22.5 |
| 7                          | 24.8    | 24.8 | 25.4 | 25.7 | 25.1 | 23.9 | 23.2   | 21.6   | 20.5 | 19.4 | 18.4 | 19.0 | 19.5   | 20.6 | 21.2 | 20.8   | 20.7   | 21.6 | 21.6 | 22.3 | 22.1 | 23.8 | 23.5              | 22.1 |
| 8                          | 24.7    | 24.5 | 24.8 | 26.3 | 28.8 | 30.1 | 24.6   | 22.0   | 19.7 | 17.6 | 16.5 | 16.6 | 18.5   | 21.2 | 21.5 | 22.0   | 23.1   | 23.9 | 24.4 | 24.4 | 24.3 | 24.3 | 24.3              | 23.0 |
| 9                          | 23.9    | 24.5 | 24.4 | 23.1 | 24.2 | 26.8 | 24.6   | 22.4   | 18.0 | 17.7 | 16.4 | 17.6 | 19.8   | 26.5 | 25.1 | 21.0   | 21.4   | 22.5 | 23.5 | 25.0 | 23.6 | 24.8 | 24.8              | 22.6 |
| 10                         | 24.9    | 24.8 | 25.7 | 25.4 | 26.6 | 26.2 | 24.2   | 22.3   | 20.5 | 19.7 | 18.3 | 19.0 | 20.7   | 21.6 | 21.0 | 21.0   | 21.5   | 22.3 | 22.5 | 22.5 | 23.0 | 21.8 | 25.2              | 22.6 |
| 11                         | 26.3    | 23.8 | 26.3 | 25.3 | 25.7 | 25.9 | 25.0   | 23.6   | 19.0 | 18.6 | 15.7 | 18.9 | 21.0   | 21.1 | 25.0 | 22.9   | 26.2   | 27.8 | 24.2 | 27.9 | 26.9 | 22.1 | 23.7              | 23.9 |
| 12                         | 23.7    | 22.5 | 23.0 | 26.2 | 26.2 | 25.6 | 23.8   | 20.7   | 20.3 | 18.5 | 17.0 | 18.2 | 19.0   | 25.0 | 24.0 | 21.8   | 22.3   | 22.4 | 23.2 | 23.6 | 22.2 | 24.5 | 24.4              | 22.6 |
| 13                         | 24.3    | 24.0 | 24.5 | 24.4 | 24.4 | 24.0 | 23.7   | 22.5   | 19.7 | 18.0 | 17.5 | 18.1 | 19.5   | 20.7 | 20.7 | 20.6   | 20.7   | 21.4 | 21.5 | 22.5 | 25.4 | 22.2 | 21.8              | 21.8 |
| 14                         | 20.4    | 22.8 | 21.8 | 24.4 | 23.2 | 20.5 | 19.7   | 26.8   | 24.7 | 14.6 | 21.5 | 16.7 | 16.4   | 17.5 | 31.4 | 33.5   | (38.9) | 29.6 | 29.6 | 23.5 | 27.2 | 24.5 | 24.9              | 26.4 |
| 15                         | 26.5    | 26.0 | 27.3 | 28.2 | 27.2 | 27.2 | 26.4   | 23.7   | 22.3 | 21.0 | 20.4 | 25.8 | 27.5   | 30.7 | 24.3 | 26.5   | 25.8   | 31.0 | 28.6 | 28.5 | 30.7 | 27.5 | 27.3              | 26.4 |
| 16                         | 27.7    | 26.7 | 26.8 | 26.4 | 27.0 | 24.6 | 25.9   | (26.0) | 24.0 | 23.9 | 23.8 | 28.9 | 26.6   | 23.8 | 27.9 | 31.7   | 26.8   | 25.7 | 25.8 | 27.7 | 26.5 | 26.8 | 26.8              | 26.4 |
| 17                         | 23.2    | 26.9 | 25.9 | 25.0 | 25.4 | 26.7 | 26.7   | 25.9   | 24.4 | 23.8 | 24.6 | 29.4 | 24.1   | 25.9 | 26.0 | 30.9   | 25.6   | 27.6 | 27.6 | 26.8 | 26.6 | 25.0 | 24.7              | 26.1 |
| 18                         | 26.6    | 28.2 | 28.1 | 27.8 | 28.0 | 27.4 | 25.9   | 22.9   | 21.2 | 20.3 | 18.4 | 21.4 | 22.6   | 25.2 | 25.7 | 28.2   | 29.9   | 28.4 | 26.9 | 26.2 | 24.9 | 24.8 | 22.8              | 25.5 |
| 19                         | 20.4    | 25.7 | 26.7 | 25.9 | 25.9 | 25.7 | 22.0   | 22.7   | 19.9 | 16.8 | 20.1 | 25.1 | 27.7   | 24.9 | 28.7 | 31.0   | 30.6   | 29.1 | 27.7 | 25.9 | 24.9 | 24.7 | 24.8              | 25.5 |
| 20                         | 24.3    | 21.9 | 24.3 | 26.7 | 27.9 | 27.9 | 26.0   | 22.9   | 19.7 | 18.8 | 19.7 | 19.9 | 21.8   | 24.7 | 32.7 | 28.7   | 26.3   | 24.3 | 25.8 | 27.9 | 30.7 | 31.2 | 33.9              | 25.6 |
| 21                         | 29.6    | 28.7 | 27.1 | 28.7 | 28.0 | 28.5 | 28.0   | 25.9   | 21.0 | 19.7 | 19.7 | 21.0 | (22.1) | 22.6 | 23.7 | 28.6   | 24.6   | 38.0 | 24.0 | 30.6 | 29.9 | 24.7 | 27.7              | 26.7 |
| 22                         | 28.9    | 30.1 | 30.4 | 27.9 | 17.7 | 15.6 | 23.0   | 25.9   | 22.8 | 25.0 | 24.0 | 24.1 | 23.9   | 26.0 | 27.8 | 29.7   | 27.7   | 26.9 | 32.8 | 38.7 | 48.0 | 39.1 | 32.9              | 28.2 |
| 23                         | (254.4) | 37.7 | 26.2 | 6.8  | 36.4 | 30.3 | 29.9   | 29.3   | 28.0 | 26.0 | 24.9 | 26.0 | 26.9   | 27.8 | 28.3 | 26.7   | 29.9   | 26.0 | 25.8 | 26.9 | 27.7 | 27.8 | 27.9              | 28.5 |
| 24                         | 28.7    | 29.0 | 29.7 | 30.4 | 31.0 | 30.6 | 28.8   | 26.7   | 23.7 | 23.0 | 21.0 | 20.0 | 21.0   | 23.7 | 25.7 | 26.7   | 27.1   | 27.7 | 34.0 | 36.7 | 36.9 | 41.7 | 35.0              | 28.6 |
| 25                         | 41.0    | 34.1 | 11.9 | 16.7 | 30.7 | 30.0 | (29.9) | 28.2   | 28.9 | 22.6 | 22.8 | 21.8 | 23.9   | 27.3 | 30.7 | (34.6) | 30.2   | 24.9 | 22.8 | 21.9 | 24.2 | 25.9 | 26.3              | 26.5 |
| 26                         | 26.3    | 27.1 | 27.0 | 25.9 | 20.3 | 17.0 | 24.9   | 25.8   | 22.7 | 19.9 | 20.7 | 22.1 | 25.3   | 26.7 | 26.0 | 26.0   | 20.8   | 28.0 | 26.0 | 24.0 | 25.8 | 27.0 | 26.0              | 24.5 |
| 27                         | 28.7    | 28.5 | 28.0 | 27.0 | 27.9 | 28.7 | 27.1   | 24.9   | 22.7 | 21.6 | 20.9 | 20.9 | 22.9   | 25.7 | 26.9 | 24.0   | 24.4   | 24.8 | 25.7 | 28.0 | 32.4 | 26.0 | 21.5              | 25.6 |
| 28                         | 34.9    | 31.7 | 28.7 | 20.6 | 25.7 | 19.8 | 19.8   | 22.1   | 24.1 | 23.9 | 22.0 | 23.7 | 27.9   | 40.4 | 35.0 | 35.5   | 29.1   | 21.9 | 29.7 | 23.4 | 28.9 | 24.7 | 23.8              | 27.0 |
| 29                         | 26.6    | 27.7 | 26.0 | 27.0 | 27.4 | 27.9 | 27.8   | 26.8   | 26.9 | 22.9 | 23.8 | 20.7 | 25.9   | 23.4 | 25.0 | 25.8   | 24.1   | 23.1 | 28.4 | 27.2 | 24.0 | 22.0 | 24.3              | 25.5 |
| 30                         | 26.2    | 21.7 | 19.5 | 26.3 | 26.9 | 26.1 | 26.8   | 25.9   | 23.7 | 22.5 | 23.4 | 22.0 | 25.0   | 24.9 | 24.2 | 25.3   | 23.7   | 24.6 | 24.8 | 25.0 | 25.7 | 25.0 | 24.8              | 24.5 |
| 31                         |         |      |      |      |      |      |        |        |      |      |      |      |        |      |      |        |        |      |      |      |      |      |                   |      |
| Среднее<br>по всем<br>дням | 27.2    | 26.5 | 25.7 | 25.4 | 26.7 | 25.7 | 24.9   | 23.6   | 21.6 | 20.1 | 20.1 | 21.1 | 22.4   | 24.4 | 25.4 | 25.8   | 25.2   | 25.4 | 25.4 | 26.0 | 26.6 | 25.8 | 25.8              | 24.7 |

Величины в скобках взяты с магн. записей

Обработал

Смирнов

Проверил

Смирнов

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55°50'N Долгота 48°51'E  
Месяц Сентябрь Год 1963

Среднемесячн. H = 16528  
Элемент Горизонтальная составляющая  
H = 16400 + . . . = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |
| 1                          | 144 | 147 | 143 | 139 | 134 | 129 | 124 | 127 | 126 | 119 | 132 | 145 | 141 | 144 | 152 | 151 | 144 | 152 | 150 | 148 | 144 | 141 | 140               |     |
| 2                          | 145 | 142 | 142 | 137 | 128 | 123 | 122 | 123 | 131 | 139 | 141 | 143 | 147 | 149 | 148 | 150 | 149 | 154 | 163 | 160 | 169 | 159 | 153               | 144 |
| 3                          | 150 | 150 | 152 | 149 | 144 | 134 | 124 | 126 | 131 | 139 | 144 | 151 | 159 | 151 | 159 | 152 | 150 | 149 | 147 | 157 | 144 | 141 | 143               | 146 |
| 4                          | 147 | 147 | 141 | 134 | 127 | 123 | 127 | 132 | 137 | 143 | 148 | 149 | 149 | 149 | 149 | 151 | 151 | 157 | 159 | 162 | 157 | 159 | 148               | 146 |
| 5                          | 143 | 143 | 147 | 142 | 135 | 128 | 126 | 134 | 142 | 142 | 149 | 149 | 160 | 155 | 158 | 159 | 155 | 157 | 160 | 154 | 161 | 155 | 145               | 148 |
| 6                          | 157 | 155 | 147 | 143 | 137 | 131 | 124 | 127 | 125 | 129 | 131 | 136 | 143 | 146 | 148 | 147 | 149 | 156 | 155 | 158 | 157 | 157 | 154               | 144 |
| 7                          | 152 | 151 | 149 | 146 | 141 | 138 | 128 | 127 | 128 | 139 | 148 | 151 | 154 | 155 | 154 | 153 | 154 | 162 | 165 | 168 | 170 | 161 | 157               | 150 |
| 8                          | 155 | 151 | 148 | 141 | 141 | 133 | 134 | 135 | 141 | 143 | 141 | 130 | 115 | 112 | 141 | 144 | 145 | 143 | 143 | 145 | 147 | 148 | 149               | 140 |
| 9                          | 151 | 152 | 148 | 142 | 131 | 128 | 128 | 124 | 127 | 129 | 142 | 143 | 145 | 141 | 132 | 141 | 147 | 153 | 153 | 157 | 157 | 148 | 147               | 142 |
| 10                         | 147 | 148 | 148 | 141 | 141 | 138 | 137 | 133 | 125 | 132 | 138 | 141 | 145 | 149 | 151 | 156 | 154 | 158 | 157 | 158 | 159 | 159 | 153               | 147 |
| 11                         | 143 | 141 | 145 | 143 | 140 | 129 | 123 | 121 | 124 | 114 | 121 | 127 | 139 | 139 | 141 | 147 | 144 | 150 | 155 | 143 | 138 | 141 | 140               | 137 |
| 12                         | 147 | 135 | 141 | 139 | 138 | 120 | 115 | 114 | 114 | 129 | 134 | 141 | 146 | 147 | 145 | 144 | 145 | 149 | 148 | 148 | 152 | 144 | 144               | 139 |
| 13                         | 145 | 141 | 139 | 139 | 136 | 135 | 131 | 126 | 133 | 144 | 148 | 150 | 150 | 151 | 152 | 150 | 152 | 161 | 164 | 164 | 165 | 152 | 148               | 147 |
| 14                         | 153 | 144 | 144 | 149 | 131 | 138 | 111 | 82  | 70  | 80  | 84  | 102 | 91  | 91  | 54  | 73  | 127 | 107 | 122 | 115 | 102 | 109 | 118               | 108 |
| 15                         | 121 | 112 | 112 | 109 | 94  | 70  | 84  | 94  | 112 | 116 | 122 | 109 | 127 | 114 | 120 | 129 | 148 | 131 | 139 | 127 | 119 | 128 | 120               | 117 |
| 16                         | 127 | 132 | 130 | 120 | 111 | 112 | 98  | 91  | 96  | 105 | 113 | 110 | 108 | 120 | 128 | 163 | 134 | 145 | 164 | 129 | 132 | 141 | 121               | 123 |
| 17                         | 140 | 124 | 130 | 123 | 108 | 107 | 65  | 60  | 87  | 99  | 102 | 117 | 112 | 105 | 118 | 132 | 121 | 176 | 120 | 120 | 125 | 126 | 123               | 115 |
| 18                         | 119 | 122 | 117 | 120 | 118 | 114 | 114 | 117 | 111 | 116 | 127 | 120 | 122 | 128 | 132 | 126 | 146 | 118 | 128 | 127 | 127 | 129 | 127               | 123 |
| 19                         | 127 | 128 | 130 | 134 | 118 | 121 | 107 | 98  | 100 | 112 | 96  | 106 | 124 | 116 | 107 | 109 | 113 | 128 | 121 | 147 | 129 | 126 | 127               | 119 |
| 20                         | 127 | 124 | 128 | 130 | 128 | 116 | 110 | 110 | 108 | 110 | 121 | 126 | 131 | 131 | 130 | 123 | 117 | 131 | 134 | 136 | 128 | 128 | 133               | 124 |
| 21                         | 127 | 132 | 135 | 126 | 120 | 121 | 114 | 108 | 108 | 107 | 124 | 130 | 128 | 132 | 142 | 136 | 138 | 149 | 128 | 149 | 134 | 134 | 135               | 128 |
| 22                         | 133 | 131 | 131 | 134 | 50  | -45 | 30  | 49  | 35  | 89  | 94  | 86  | 100 | 91  | 97  | 106 | 128 | 160 | 168 | 169 | 150 | 83  | -24               | 94  |
| 23                         | 18  | 15  | 31  | 15  | 47  | 20  | 33  | 33  | 40  | 50  | 71  | 94  | 102 | 107 | 102 | 94  | 107 | 120 | 123 | 120 | 114 | 108 | 107               | 74  |
| 24                         | 106 | 103 | 102 | 100 | 101 | 102 | 94  | 92  | 93  | 93  | 102 | 108 | 113 | 112 | 118 | 121 | 114 | 117 | 128 | 114 | 108 | 128 | 129               | 109 |
| 25                         | 128 | 82  | 134 | 98  | 104 | 90  | 73  | 58  | 53  | 66  | 88  | 96  | 99  | 106 | 111 | 126 | 128 | 122 | 129 | 126 | 124 | 121 | 117               | 105 |
| 26                         | 117 | 120 | 124 | 124 | 82  | 84  | 102 | 110 | 107 | 113 | 111 | 106 | 112 | 118 | 123 | 129 | 146 | 128 | 126 | 127 | 128 | 129 | 126               | 119 |
| 27                         | 122 | 120 | 118 | 119 | 124 | 122 | 119 | 117 | 116 | 112 | 118 | 124 | 126 | 123 | 131 | 128 | 136 | 140 | 158 | 219 | 128 | 142 | 152               | 132 |
| 28                         | 119 | 116 | 91  | 98  | 94  | 84  | 84  | 92  | 93  | 107 | 113 | 113 | 108 | 141 | 129 | 146 | 119 | 139 | 134 | 120 | 133 | 104 | 118               | 113 |
| 29                         | 126 | 118 | 118 | 112 | 116 | 120 | 117 | 109 | 104 | 110 | 106 | 116 | 120 | 120 | 120 | 138 | 133 | 148 | 140 | 136 | 129 | 137 | 132               | 123 |
| 30                         | 135 | 122 | 122 | 130 | 133 | 133 | 121 | 119 | 122 | 118 | 120 | 130 | 130 | 136 | 132 | 131 | 137 | 138 | 138 | 138 | 137 | 137 | 135               | 130 |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |
| Среднее<br>по всем<br>дням | 132 | 128 | 130 | 126 | 118 | 110 | 107 | 106 | 108 | 115 | 121 | 125 | 128 | 129 | 131 | 135 | 138 | 143 | 144 | 145 | 139 | 136 | 131               | 128 |

Величины в скобках взяты с магнитограмм Эдельмана

Ведомство Министерство Высшего Образования  
Обсерватория Казанская / Займиш Широта 55°50'N Долгота 48°51'E

Элемент Вертикальная составляющая Среднемес.  $\bar{Z} = 49786$   
 $\bar{Z} = 49600 + \dots = \dots$

Месяц Сентябрь Год 1963

| Время<br>мировое           |      |     |     |     |     |     |     |     |     |       |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10    | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |     |                   |     |
| 1                          | 175  | 180 | 184 | 186 | 188 | 184 | 184 | 180 | 185 | 198   | 200 | 195 | 196 | 200 | 191 | 190 | 192 | 191 | 189 | 189 | 189 | 187 | 188 | 188               | 189 |
| 2                          | 188  | 190 | 190 | 190 | 190 | 191 | 190 | 184 | 180 | 184   | 186 | 186 | 188 | 187 | 186 | 184 | 187 | 187 | 187 | 184 | 182 | 178 | 174 | 179               | 186 |
| 3                          | 182  | 182 | 182 | 182 | 182 | 182 | 182 | 184 | 184 | 184   | 184 | 187 | 191 | 190 | 192 | 188 | 189 | 187 | 187 | 187 | 184 | 184 | 186 | 186               | 185 |
| 4                          | 186  | 188 | 188 | 190 | 190 | 190 | 190 | 188 | 186 | 184   | 187 | 185 | 185 | 186 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 180 | 178               | 186 |
| 5                          | 180  | 184 | 183 | 184 | 184 | 184 | 183 | 181 | 181 | 183   | 188 | 186 | 183 | 182 | 182 | 183 | 184 | 186 | 188 | 188 | 184 | 182 | 180 | 177               | 183 |
| 6                          | 175  | 177 | 181 | 181 | 179 | 179 | 182 | 180 | 178 | 181   | 182 | 184 | 184 | 186 | 184 | 184 | 186 | 184 | 184 | 184 | 184 | 181 | 178 | 178               | 182 |
| 7                          | 180  | 184 | 184 | 183 | 181 | 181 | 182 | 184 | 184 | 184   | 184 | 184 | 187 | 188 | 184 | 182 | 182 | 183 | 183 | 182 | 178 | 176 | 176 | 182               |     |
| 8                          | 179  | 182 | 183 | 184 | 184 | 179 | 177 | 178 | 175 | 176   | 178 | 188 | 203 | 198 | 193 | 190 | 190 | 190 | 189 | 188 | 186 | 186 | 186 | 186               | 185 |
| 9                          | 186  | 186 | 186 | 186 | 186 | 186 | 182 | 175 | 175 | 176   | 183 | 188 | 192 | 202 | 197 | 190 | 188 | 186 | 186 | 184 | 182 | 182 | 184 | 186               |     |
| 10                         | 184  | 184 | 184 | 184 | 184 | 184 | 182 | 180 | 181 | 182   | 184 | 186 | 188 | 188 | 183 | 183 | 184 | 184 | 183 | 183 | 183 | 182 | 175 | 175               | 183 |
| 11                         | 178  | 180 | 178 | 180 | 180 | 180 | 178 | 173 | 173 | 173   | 177 | 189 | 190 | 190 | 190 | 190 | 191 | 190 | 182 | 161 | 168 | 174 | 176 | 177               | 180 |
| 12                         | 178  | 178 | 178 | 181 | 184 | 182 | 182 | 178 | 177 | 178   | 180 | 184 | 188 | 191 | 189 | 186 | 186 | 184 | 184 | 184 | 184 | 180 | 180 | 181               | 182 |
| 13                         | 182  | 182 | 182 | 182 | 182 | 184 | 184 | 180 | 172 | 174   | 178 | 182 | 184 | 184 | 182 | 182 | 180 | 180 | 180 | 180 | 180 | 175 | 176 | 170               | 180 |
| 14                         | 165  | 169 | 172 | 172 | 176 | 178 | 175 | 180 | 180 | 193   | 221 | 235 | 277 | 325 | 299 | 258 | 211 | 204 | 192 | 175 | 180 | 177 | 165 | 185               | 203 |
| 15                         | 190  | 191 | 197 | 198 | 194 | 192 | 195 | 191 | 190 | 191   | 194 | 203 | 216 | 227 | 216 | 209 | 200 | 181 | 180 | 170 | 178 | 170 | 153 | 154               | 191 |
| 16                         | 177  | 184 | 187 | 188 | 194 | 193 | 191 | 192 | 191 | (199) | 200 | 221 | 219 | 208 | 206 | 200 | 195 | 195 | 192 | 170 | 178 | 182 | 174 | 159               | 191 |
| 17                         | 162  | 176 | 184 | 188 | 190 | 191 | 191 | 191 | 194 | 211   | 224 | 250 | 226 | 217 | 212 | 206 | 198 | 198 | 178 | 178 | 188 | 190 | 190 | 188               | 197 |
| 18                         | 184  | 187 | 185 | 188 | 188 | 190 | 186 | 183 | 183 | 186   | 192 | 200 | 206 | 210 | 204 | 206 | 191 | 190 | 194 | 192 | 192 | 191 | 191 | 190               | 192 |
| 19                         | 180  | 184 | 189 | 191 | 192 | 194 | 190 | 184 | 178 | 185   | 198 | 220 | 222 | 217 | 219 | 219 | 210 | 198 | 187 | 189 | 180 | 184 | 188 | 191               | 195 |
| 20                         | 191  | 191 | 191 | 192 | 193 | 193 | 191 | 190 | 191 | 194   | 198 | 195 | 194 | 199 | 207 | 205 | 204 | 204 | 199 | 196 | 191 | 184 | 181 | 178               | 194 |
| 21                         | 180  | 184 | 187 | 191 | 195 | 193 | 192 | 191 | 186 | 182   | 186 | 188 | 190 | 191 | 196 | 210 | 217 | 221 | 205 | 200 | 184 | 184 | 190 | 191               | 193 |
| 22                         | 190  | 190 | 186 | 180 | 178 | 174 | 184 | 192 | 218 | 211   | 206 | 205 | 205 | 206 | 203 | 206 | 202 | 203 | 188 | 170 | 137 | 134 | 118 | 1                 | 179 |
| 23                         | <190 | -72 | -36 | -1  | 135 | 176 | 191 | 201 | 204 | 210   | 209 | 206 | 209 | 205 | 202 | 199 | 198 | 198 | 196 | 195 | 195 | 195 | 195 | 195               | 151 |
| 24                         | 198  | 198 | 198 | 198 | 198 | 198 | 198 | 193 | 192 | 192   | 192 | 193 | 198 | 198 | 200 | 200 | 200 | 200 | 200 | 193 | 182 | 162 | 132 | 91                | 188 |
| 25                         | 114  | 118 | 110 | 118 | 159 | 176 | 192 | 192 | 190 | 192   | 206 | 207 | 214 | 214 | 212 | 210 | 200 | 192 | 184 | 184 | 173 | 178 | 180 | 185               | 179 |
| 26                         | 190  | 190 | 190 | 190 | 193 | 193 | 192 | 186 | 180 | 184   | 190 | 197 | 202 | 207 | 201 | 198 | 198 | 181 | 188 | 191 | 191 | 181 | 176 | 171               | 190 |
| 27                         | 179  | 185 | 188 | 192 | 193 | 193 | 191 | 190 | 190 | 192   | 193 | 197 | 200 | 202 | 200 | 198 | 195 | 193 | 192 | 187 | 154 | 161 | 155 | 144               | 186 |
| 28                         | 153  | 167 | 164 | 170 | 172 | 174 | 176 | 181 | 190 | 192   | 194 | 200 | 213 | 225 | 219 | 197 | 193 | 196 | 184 | 180 | 166 | 168 | 173 | 180               | 184 |
| 29                         | 185  | 186 | 187 | 190 | 192 | 193 | 193 | 193 | 194 | 197   | 196 | 200 | 206 | 203 | 202 | 195 | 193 | 195 | 186 | 182 | 182 | 182 | 175 | 177               | 191 |
| 30                         | 180  | 178 | 174 | 180 | 184 | 185 | 186 | 188 | 186 | 189   | 190 | 190 | 194 | 192 | 192 | 192 | 192 | 192 | 190 | 190 | 190 | 190 | 190 | 190               | 188 |
| 31                         |      |     |     |     |     |     |     |     |     |       |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |     |
| Среднее<br>по всем<br>дням | 166  | 173 | 175 | 177 | 184 | 186 | 186 | 185 | 186 | 189   | 193 | 198 | 202 | 204 | 201 | 197 | 194 | 192 | 188 | 184 | 180 | 179 | 175 | 170               | 186 |

Величины в скобках взяты с магнитограмм Эдельмана

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займиш Широта 55°50'N Долгота 48°51'E

Элемент

Склонение

Среднемесячн. 20 = 10°25'3

Месяц Октябрь Год 1963

20 = 10° + . . . = 0

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |        |      |      | Средн.<br>суточн |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|------|--------|------|------|------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17     | 19   | 20   | 21     | 22   | 23   |                  |      |      |
| 1                          | 25.6 | 25.7 | 26.0 | 26.2 | 27.3 | 28.5 | 27.6 | 27.0 | 24.9 | 23.0 | 21.7 | 22.2 | 23.2 | 24.3 | 24.7 | 24.3 | 25.3   | 25.4 | 25.3 | 25.6   | 25.2 | 25.2 | 25.6             | 25.2 |      |
| 2                          | 25.5 | 25.3 | 25.7 | 26.6 | 27.8 | 28.6 | 28.0 | 26.0 | 22.8 | 20.2 | 18.4 | 19.2 | 21.6 | 23.1 | 23.2 | 23.3 | 24.5   | 24.6 | 24.9 | 24.8   | 24.7 | 24.7 | 23.5             | 23.9 | 24.2 |
| 3                          | 24.4 | 24.6 | 24.4 | 25.2 | 26.2 | 27.4 | 27.2 | 24.9 | 22.5 | 19.9 | 19.6 | 20.7 | 22.7 | 24.3 | 24.6 | 24.2 | 23.9   | 23.9 | 24.4 | 24.7   | 24.4 | 24.9 | 25.0             | 24.9 | 24.1 |
| 4                          | 25.2 | 24.4 | 24.0 | 23.3 | 24.8 | 26.8 | 26.4 | 24.2 | 22.8 | 21.3 | 19.8 | 20.7 | 21.7 | 22.0 | 22.7 | 23.0 | 22.8   | 24.2 | 24.4 | 24.7   | 25.2 | 25.9 | 26.4             | 25.8 | 23.9 |
| 5                          | 25.5 | 25.3 | 25.7 | 26.1 | 26.3 | 26.7 | 25.1 | 23.6 | 20.8 | 18.8 | 17.1 | 18.2 | 20.4 | 21.9 | 22.2 | 23.0 | 24.0   | 24.3 | 24.3 | 23.5   | 25.2 | 25.2 | 25.2             | 25.4 | 23.3 |
| 6                          | 25.5 | 25.3 | 24.3 | 25.2 | 25.6 | 25.8 | 27.3 | 24.7 | 22.4 | 20.1 | 19.3 | 20.3 | 22.2 | 23.4 | 23.4 | 23.8 | 24.0   | 25.9 | 25.6 | 24.8   | 24.6 | 25.0 | 25.3             | 26.0 | 24.2 |
| 7                          | 25.4 | 24.5 | 24.4 | 25.2 | 26.0 | 26.7 | 26.4 | 24.4 | 23.0 | 20.0 | 19.5 | 18.9 | 20.3 | 21.8 | 22.2 | 22.2 | 26.0   | 24.6 | 24.6 | 24.3   | 24.6 | 24.6 | 23.3             | 26.7 | 23.7 |
| 8                          | 26.6 | 26.9 | 26.6 | 24.0 | 24.1 | 25.6 | 27.4 | 26.0 | 24.0 | 20.4 | 20.0 | 19.6 | 22.6 | 22.8 | 23.5 | 26.9 | 27.9   | 25.7 | 25.5 | 24.4   | 25.0 | 23.6 | 25.2             | 25.3 | 24.6 |
| 9                          | 25.7 | 25.5 | 25.4 | 25.5 | 26.0 | 26.7 | 26.2 | 25.0 | 23.1 | 21.2 | 19.7 | 19.7 | 21.5 | 22.7 | 22.7 | 23.4 | 23.6   | 24.2 | 27.3 | 26.3   | 25.6 | 26.1 | 22.5             | 23.8 | 24.1 |
| 10                         | 27.3 | 25.4 | 24.7 | 24.7 | 25.4 | 26.3 | 25.7 | 24.3 | 23.2 | 20.8 | 19.6 | 20.0 | 22.0 | 22.9 | 23.2 | 22.7 | 23.3   | 24.4 | 28.2 | 27.6   | 23.4 | 26.4 | 25.3             | 26.0 | 24.3 |
| 11                         | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 25.7 | 24.2 | 24.0 | 19.6 | 17.7 | 16.3 | 17.3 | 19.4 | 25.6 | 26.6 | 30.4 | 33.0   | 28.2 | 27.8 | 29.5   | 27.7 | 26.6 | 22.6             | 26.3 | 24.9 |
| 12                         | 26.2 | 26.4 | 19.5 | 23.8 | 25.8 | 25.0 | 26.0 | 24.5 | 21.4 | 22.2 | 21.7 | 22.7 | 32.9 | 38.5 | 29.0 | 31.7 | 28.2   | 36.3 | 31.3 | 27.3   | 18.7 | 26.7 | 28.2             | 26.7 | 26.7 |
| 13                         | 26.4 | 25.7 | 25.6 | 25.8 | 26.6 | 24.8 | 25.4 | 22.9 | 21.5 | 22.1 | 20.5 | 21.4 | 26.8 | 23.4 | 30.7 | 27.5 | 25.6   | 25.7 | 25.4 | 22.0   | 26.9 | 19.5 | 17.6             | 26.6 | 24.4 |
| 14                         | 17.2 | 21.1 | 27.2 | 27.2 | 26.9 | 26.3 | 27.3 | 26.2 | 23.3 | 25.4 | 22.7 | 29.5 | 31.0 | 35.0 | 31.6 | 34.2 | 37.5   | 37.9 | 27.8 | 21.7   | 24.3 | 25.3 | 25.8             | 24.8 | 27.4 |
| 15                         | 24.5 | 22.7 | 23.3 | 25.6 | 27.4 | 26.1 | 26.6 | 24.5 | 22.8 | 21.0 | 20.4 | 22.9 | 24.5 | 24.8 | 25.7 | 23.7 | 24.2   | 24.3 | 24.5 | 20.7   | 25.6 | 25.7 | 20.2             | 26.2 | 24.1 |
| 16                         | 25.7 | 23.3 | 22.9 | 24.8 | 25.0 | 26.1 | 25.9 | 24.4 | 21.1 | 19.9 | 20.7 | 23.4 | 27.4 | 26.7 | 28.7 | 28.2 | 28.6   | 22.8 | 30.4 | 28.6   | 24.0 | 24.8 | 24.9             | 24.5 | 25.1 |
| 17                         | 25.2 | 25.9 | 26.0 | 26.1 | 26.2 | 25.0 | 23.5 | 23.0 | 21.4 | 20.9 | 21.5 | 23.8 | 25.5 | 25.2 | 25.0 | 25.4 | 27.3   | 26.4 | 26.4 | 26.1   | 25.7 | 25.6 | 25.3             | 25.3 | 24.9 |
| 18                         | 26.1 | 26.2 | 25.7 | 24.6 | 24.9 | 25.8 | 25.6 | 23.5 | 21.5 | 20.0 | 20.2 | 22.7 | 24.5 | 25.6 | 26.3 | 27.3 | 26.2   | 26.7 | 29.8 | 29.0   | 27.5 | 25.5 | 26.1             | 26.4 | 25.3 |
| 19                         | 25.6 | 25.9 | 26.0 | 24.8 | 23.8 | 24.6 | 24.3 | 23.3 | 20.9 | 20.3 | 20.6 | 23.0 | 24.9 | 25.3 | 25.2 | 26.2 | 27.6   | 27.0 | 25.6 | 26.8   | 26.6 | 26.4 | 25.4             | 24.4 | 24.8 |
| 20                         | 26.2 | 25.5 | 23.9 | 24.9 | 25.7 | 25.8 | 26.0 | 25.4 | 22.8 | 20.1 | 18.4 | 19.7 | 23.1 | 29.4 | 22.6 | 23.8 | 25.8   | 30.9 | 29.7 | 29.2   | 28.8 | 27.9 | 29.6             | 28.9 | 25.6 |
| 21                         | 26.4 | 25.5 | 24.8 | 24.0 | 27.4 | 26.9 | 26.2 | 24.5 | 22.8 | 20.3 | 19.2 | 21.1 | 22.5 | 23.7 | 24.3 | 25.1 | 25.0   | 25.1 | 25.5 | 24.9   | 24.7 | 24.3 | 24.7             | 24.8 | 24.3 |
| 22                         | 25.0 | 24.9 | 25.0 | 25.0 | 25.6 | 26.9 | 26.9 | 25.3 | 23.2 | 21.3 | 21.3 | 22.1 | 22.8 | 22.8 | 22.6 | 22.7 | 22.9   | 23.5 | 23.7 | 24.0   | 24.3 | 24.3 | 24.3             | 24.6 | 24.0 |
| 23                         | 24.5 | 24.2 | 23.7 | 23.7 | 24.4 | 25.6 | 26.3 | 25.3 | 23.0 | 20.5 | 19.5 | 20.4 | 21.3 | 22.2 | 22.8 | 23.3 | 23.4   | 23.7 | 24.2 | 24.5   | 28.2 | 28.6 | 28.5             | 29.3 | 24.2 |
| 24                         | 32.9 | 29.4 | 32.4 | 27.4 | 28.3 | 29.7 | 27.6 | 25.4 | 25.8 | 18.9 | 19.3 | 20.5 | 22.5 | 23.7 | 24.6 | 26.3 | 28.9   | 31.8 | 33.6 | 36.6   | 31.6 | 33.4 | 22.8             | 29.4 | 27.6 |
| 25                         | 30.7 | 24.3 | 29.6 | 29.4 | 28.9 | 28.6 | 27.1 | 27.7 | 25.8 | 23.8 | 22.4 | 23.3 | 23.8 | 25.5 | 25.1 | 25.1 | 25.7   | 26.3 | 27.6 | 26.6   | 27.3 | 27.8 | 28.3             | 28.3 | 26.6 |
| 26                         | 28.0 | 28.3 | 25.6 | 25.9 | 26.5 | 27.0 | 27.7 | 26.4 | 24.4 | 23.5 | 23.3 | 23.7 | 25.0 | 27.3 | 25.3 | 25.8 | 26.2   | 28.8 | 26.8 | 26.4   | 26.4 | 26.3 | 25.8             | 25.4 | 26.1 |
| 27                         | 25.7 | 25.7 | 25.6 | 25.5 | 26.1 | 26.8 | 27.2 | 26.3 | 24.4 | 22.5 | 22.1 | 23.1 | 24.2 | 24.2 | 24.8 | 24.8 | 24.8   | 24.8 | 25.6 | 25.4   | 25.5 | 25.6 | 25.5             | 25.2 | 25.1 |
| 28                         | 25.2 | 25.2 | 25.5 | 25.9 | 26.7 | 27.6 | 27.4 | 25.6 | 24.0 | 22.7 | 22.2 | 23.1 | 23.7 | 23.9 | 23.9 | 24.8 | 25.4   | 30.3 | 32.4 | 30.7   | 27.3 | 27.6 | 28.4             | 27.1 | 26.1 |
| 29                         | 27.2 | 25.7 | 22.9 | 21.5 | 20.7 | 23.6 | 25.8 | 25.8 | 24.6 | 24.4 | 24.4 | 24.3 | 25.2 | 26.7 | 31.3 | 28.3 | (52.1) | 39.4 | 57.4 | (64.0) | 57.0 | 52.8 | 35.2             | 29.3 | 32.9 |
| 30                         | 21.6 | 18.6 | 26.3 | 28.7 | 29.8 | 32.3 | 32.4 | 29.7 | 27.6 | 26.4 | 26.6 | 25.7 | 25.5 | 25.7 | 25.8 | 25.4 | 25.7   | 26.3 | 26.7 | 27.2   | 27.5 | 27.4 | 27.5             | 27.6 | 26.8 |
| 31                         | 27.3 | 26.7 | 26.4 | 25.8 | 26.3 | 26.9 | 26.8 | 25.2 | 24.5 | 23.3 | 23.6 | 24.4 | 24.9 | 24.7 | 24.5 | 24.5 | 24.7   | 25.5 | 26.2 | 26.4   | 27.2 | 26.8 | 26.8             | 26.7 | 25.7 |
| Среднее<br>по всем<br>дням | 25.8 | 25.2 | 25.3 | 25.4 | 26.1 | 26.7 | 26.6 | 25.1 | 23.1 | 21.4 | 20.7 | 21.9 | 23.9 | 25.1 | 25.1 | 25.5 | 26.9   | 27.1 | 27.8 | 27.4   | 26.8 | 26.8 | 25.5             | 26.2 | 25.3 |

Условные обозначения: Δ — погасла лампа; > или < — запись вышла за бумагу; □ — остановились часы; / — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Величины в скобках взяты с магнитограммы Эдельмана.

Обработал

Шинь

Проверил

Шинь

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займиш/ Широта 55°50' N Долгота 48°51' E

Элемент Горизонтальная составляющая

Среднемесячи. H = 16530

Месяц Октябрь Год 1963

H = 16400 + . . . = . . .

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |     |
| 1                          | 137 | 136 | 136 | 136 | 134 | 128 | 120 | 116 | 114 | 119 | 127 | 132 | 135 | 136 | 135 | 135 | 138 | 134 | 139 | 134 | 136 | 137 | 134               | 132 |     |
| 2                          | 134 | 136 | 137 | 138 | 136 | 131 | 126 | 121 | 123 | 129 | 136 | 140 | 140 | 139 | 140 | 142 | 144 | 144 | 146 | 146 | 149 | 143 | 146               | 144 | 138 |
| 3                          | 144 | 143 | 146 | 147 | 143 | 140 | 132 | 123 | 117 | 119 | 124 | 132 | 136 | 135 | 134 | 130 | 138 | 140 | 141 | 142 | 150 | 146 | 142               | 142 | 137 |
| 4                          | 143 | 142 | 140 | 141 | 143 | 136 | 127 | 121 | 118 | 120 | 123 | 133 | 140 | 138 | 130 | 124 | 127 | 138 | 141 | 142 | 142 | 143 | 146               | 141 | 135 |
| 5                          | 140 | 144 | 142 | 142 | 146 | 140 | 137 | 130 | 128 | 124 | 116 | 132 | 140 | 141 | 140 | 139 | 140 | 139 | 150 | 163 | 146 | 149 | 146               | 142 | 140 |
| 6                          | 144 | 142 | 143 | 147 | 140 | 138 | 128 | 129 | 131 | 133 | 140 | 140 | 142 | 144 | 144 | 143 | 141 | 134 | 139 | 144 | 146 | 146 | 146               | 143 | 140 |
| 7                          | 144 | 149 | 151 | 150 | 149 | 146 | 137 | 132 | 131 | 136 | 137 | 141 | 147 | 147 | 144 | 147 | 131 | 133 | 143 | 149 | 150 | 164 | 161               | 148 | 144 |
| 8                          | 146 | 145 | 139 | 127 | 136 | 137 | 128 | 120 | 120 | 120 | 121 | 129 | 122 | 122 | 133 | 137 | 167 | 148 | 137 | 140 | 142 | 142 | 142               | 141 | 135 |
| 9                          | 140 | 140 | 140 | 142 | 142 | 139 | 137 | 130 | 124 | 132 | 137 | 142 | 146 | 146 | 146 | 144 | 147 | 143 | 151 | 144 | 144 | 144 | 140               | 145 | 141 |
| 10                         | 142 | 141 | 144 | 148 | 152 | 157 | 156 | 148 | 137 | 131 | 136 | 139 | 140 | 134 | 138 | 143 | 146 | 145 | 149 | 149 | 147 | 152 | 147               | 142 | 144 |
| 11                         | 140 | 142 | 144 | 146 | 144 | 140 | 131 | 111 | 108 | 121 | 126 | 105 | 96  | 104 | 130 | 140 | 150 | 142 | 136 | 137 | 139 | 138 | 140               | 142 | 131 |
| 12                         | 140 | 131 | 157 | 140 | 138 | 132 | 112 | 117 | 114 | 116 | 118 | 107 | 121 | 140 | 108 | 126 | 146 | 125 | 122 | 128 | 169 | 138 | 126               | 131 | 129 |
| 13                         | 134 | 133 | 132 | 128 | 116 | 107 | 109 | 115 | 114 | 122 | 134 | 134 | 130 | 139 | 138 | 141 | 136 | 142 | 155 | 163 | 144 | 152 | 155               | 146 | 134 |
| 14                         | 129 | 145 | 129 | 130 | 126 | 111 | 91  | 92  | 104 | 108 | 123 | 119 | 112 | 117 | 141 | 130 | 111 | 123 | 122 | 131 | 138 | 133 | 130               | 130 | 122 |
| 15                         | 130 | 123 | 127 | 129 | 120 | 107 | 103 | 110 | 118 | 129 | 130 | 124 | 133 | 129 | 131 | 140 | 140 | 140 | 140 | 145 | 141 | 142 | 141               | 146 | 130 |
| 16                         | 128 | 132 | 135 | 129 | 134 | 129 | 109 | 91  | 96  | 98  | 113 | 124 | 119 | 118 | 120 | 123 | 134 | 148 | 137 | 128 | 134 | 138 | 134               | 133 | 124 |
| 17                         | 130 | 133 | 136 | 139 | 130 | 121 | 118 | 119 | 122 | 126 | 134 | 134 | 130 | 131 | 132 | 135 | 138 | 134 | 136 | 133 | 134 | 135 | 133               | 131 | 131 |
| 18                         | 134 | 135 | 137 | 138 | 142 | 135 | 125 | 120 | 117 | 120 | 128 | 128 | 128 | 133 | 131 | 128 | 127 | 131 | 126 | 125 | 130 | 133 | 137               | 135 | 130 |
| 19                         | 137 | 139 | 140 | 136 | 138 | 133 | 124 | 115 | 111 | 117 | 123 | 124 | 122 | 123 | 120 | 118 | 124 | 130 | 134 | 136 | 133 | 140 | 136               | 137 | 129 |
| 20                         | 139 | 137 | 137 | 141 | 136 | 130 | 122 | 116 | 118 | 127 | 129 | 130 | 118 | 122 | 110 | 130 | 131 | 145 | 139 | 129 | 131 | 141 | 149               | 144 | 131 |
| 21                         | 139 | 140 | 146 | 147 | 131 | 128 | 121 | 120 | 116 | 118 | 129 | 136 | 135 | 133 | 131 | 132 | 134 | 137 | 137 | 139 | 141 | 141 | 142               | 142 | 133 |
| 22                         | 142 | 143 | 143 | 145 | 148 | 146 | 139 | 133 | 131 | 137 | 140 | 142 | 146 | 147 | 148 | 149 | 150 | 150 | 152 | 152 | 152 | 151 | 150               | 148 | 145 |
| 23                         | 148 | 148 | 149 | 150 | 150 | 147 | 140 | 135 | 134 | 138 | 142 | 147 | 151 | 148 | 148 | 147 | 148 | 150 | 150 | 150 | 143 | 143 | 140               | 137 | 145 |
| 24                         | 143 | 152 | 143 | 119 | 98  | 97  | 82  | 57  | 43  | 72  | 56  | 76  | 79  | 79  | 69  | 76  | 94  | 103 | 102 | 102 | 102 | 111 | 102               | 104 | 94  |
| 25                         | 93  | 84  | 107 | 111 | 107 | 99  | 94  | 100 | 109 | 113 | 112 | 117 | 115 | 115 | 118 | 121 | 123 | 121 | 127 | 130 | 139 | 145 | 128               | 125 | 115 |
| 26                         | 128 | 124 | 117 | 128 | 131 | 129 | 120 | 112 | 112 | 116 | 120 | 122 | 122 | 126 | 121 | 126 | 130 | 136 | 128 | 130 | 130 | 131 | 131               | 134 | 125 |
| 27                         | 134 | 134 | 135 | 136 | 134 | 129 | 125 | 123 | 123 | 127 | 134 | 136 | 135 | 134 | 131 | 135 | 135 | 136 | 140 | 145 | 140 | 134 | 133               | 132 | 133 |
| 28                         | 133 | 134 | 136 | 136 | 134 | 130 | 125 | 121 | 122 | 129 | 134 | 132 | 138 | 137 | 136 | 137 | 134 | 127 | 138 | 126 | 131 | 129 | 131               | 128 | 132 |
| 29                         | 132 | 132 | 130 | 137 | 133 | 131 | 123 | 120 | 116 | 113 | 116 | 117 | 121 | 114 | 108 | 114 | 159 | 100 | 43  | 31  | 68  | 87  | 2                 | 47  | 104 |
| 30                         | 10  | 43  | 70  | 80  | 86  | 92  | 90  | 100 | 118 | 123 | 120 | 123 | 120 | 116 | 112 | 116 | 117 | 117 | 120 | 120 | 120 | 121 | 120               | 119 | 103 |
| 31                         | 118 | 120 | 122 | 128 | 133 | 131 | 127 | 123 | 120 | 127 | 123 | 126 | 125 | 124 | 124 | 124 | 123 | 126 | 126 | 128 | 127 | 128 | 127               | 124 | 125 |
| Среднее<br>по всем<br>дням | 131 | 133 | 135 | 135 | 133 | 129 | 121 | 117 | 117 | 121 | 125 | 128 | 129 | 129 | 129 | 131 | 136 | 134 | 134 | 134 | 137 | 138 | 134               | 133 | 130 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал 8. Смирнов Проверил 8. Смирнов

Ведомство Министерство Высшего Образования  
Обсерватория Казанская / Займище / Широта 55°51' N Долгота 48°51' E

Среднемесячи. Z = 49788

Элемент Вертикальная составляющая

Z = 49600 + . . . = 0

Месяц Октябрь Год 1963

| 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. |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| Дни                        | 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. |
| 1                          | 192 | 192 | 193 | 195 | 195 | 194 | 189 | 186 | 186 | 186 | 188 | 191 | 192 | 193 | 193 | 193 | 194 | 193 | 193 | 191 | 191 | 191 | 191               |
| 2                          | 191 | 191 | 193 | 195 | 195 | 195 | 193 | 187 | 183 | 180 | 182 | 188 | 189 | 190 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 188 | 189               |
| 3                          | 187 | 187 | 189 | 191 | 193 | 193 | 191 | 188 | 184 | 184 | 184 | 189 | 193 | 193 | 193 | 193 | 193 | 191 | 191 | 189 | 187 | 187 | 188               |
| 4                          | 188 | 188 | 189 | 193 | 194 | 193 | 187 | 184 | 184 | 186 | 183 | 187 | 193 | 193 | 195 | 196 | 198 | 193 | 192 | 192 | 191 | 189 | 189               |
| 5                          | 189 | 188 | 188 | 188 | 188 | 186 | 181 | 179 | 181 | 183 | 185 | 187 | 189 | 190 | 189 | 189 | 191 | 189 | 182 | 183 | 185 | 185 | 187               |
| 6                          | 187 | 187 | 188 | 188 | 189 | 189 | 186 | 185 | 181 | 182 | 186 | 188 | 189 | 189 | 189 | 189 | 189 | 191 | 191 | 189 | 189 | 189 | 189               |
| 7                          | 188 | 187 | 187 | 189 | 191 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 185 | 187 | 187 | 187 | 193 | 192 | 191 | 189 | 184 | 164 | 171               |
| 8                          | 179 | 181 | 183 | 183 | 188 | 189 | 189 | 189 | 187 | 185 | 183 | 192 | 195 | 196 | 194 | 196 | 187 | 189 | 189 | 189 | 189 | 189 | 188               |
| 9                          | 189 | 189 | 189 | 189 | 189 | 189 | 188 | 188 | 187 | 187 | 187 | 189 | 189 | 189 | 189 | 189 | 189 | 191 | 189 | 189 | 188 | 185 | 183               |
| 10                         | 183 | 185 | 185 | 187 | 187 | 184 | 181 | 178 | 176 | 176 | 179 | 187 | 189 | 190 | 190 | 190 | 190 | 189 | 184 | 183 | 176 | 177 | 181               |
| 11                         | 183 | 183 | 185 | 186 | 188 | 186 | 181 | 178 | 179 | 181 | 188 | 201 | 217 | 211 | 203 | 196 | 189 | 188 | 186 | 186 | 187 | 178 | 176               |
| 12                         | 177 | 173 | 167 | 171 | 179 | 181 | 180 | 180 | 180 | 187 | 194 | 204 | 219 | 217 | 217 | 215 | 187 | 187 | 191 | 166 | 166 | 180 | 187               |
| 13                         | 189 | 190 | 189 | 191 | 193 | 192 | 191 | 191 | 190 | 195 | 195 | 194 | 198 | 195 | 197 | 193 | 193 | 190 | 180 | 181 | 172 | 158 | 156               |
| 14                         | 152 | 153 | 168 | 181 | 188 | 192 | 196 | 196 | 195 | 199 | 198 | 209 | 217 | 221 | 207 | 203 | 199 | 188 | 183 | 176 | 183 | 187 | 189               |
| 15                         | 190 | 188 | 190 | 191 | 197 | 198 | 198 | 197 | 195 | 191 | 197 | 199 | 199 | 200 | 199 | 195 | 195 | 191 | 181 | 183 | 183 | 175 | 177               |
| 16                         | 180 | 185 | 185 | 191 | 195 | 195 | 194 | 195 | 195 | 195 | 198 | 200 | 205 | 205 | 204 | 203 | 199 | 188 | 189 | 189 | 189 | 189 | 189               |
| 17                         | 191 | 191 | 191 | 191 | 192 | 191 | 190 | 186 | 184 | 185 | 188 | 193 | 193 | 193 | 193 | 193 | 191 | 191 | 191 | 191 | 191 | 191 | 190               |
| 18                         | 189 | 189 | 190 | 190 | 191 | 191 | 191 | 190 | 187 | 185 | 189 | 193 | 197 | 193 | 191 | 191 | 193 | 191 | 191 | 190 | 190 | 188 | 188               |
| 19                         | 188 | 188 | 188 | 188 | 190 | 190 | 189 | 189 | 188 | 187 | 191 | 197 | 197 | 197 | 198 | 198 | 198 | 193 | 191 | 189 | 187 | 187 | 187               |
| 20                         | 184 | 185 | 185 | 186 | 189 | 192 | 193 | 192 | 189 | 185 | 188 | 191 | 200 | 206 | 203 | 199 | 198 | 187 | 185 | 180 | 172 | 166 | 166               |
| 21                         | 178 | 179 | 180 | 181 | 187 | 191 | 190 | 185 | 186 | 186 | 186 | 189 | 192 | 192 | 191 | 191 | 191 | 190 | 190 | 190 | 190 | 188 | 188               |
| 22                         | 188 | 187 | 187 | 187 | 187 | 187 | 183 | 181 | 178 | 176 | 178 | 184 | 187 | 184 | 185 | 185 | 185 | 184 | 184 | 184 | 184 | 184 | 184               |
| 23                         | 183 | 183 | 183 | 184 | 184 | 186 | 183 | 179 | 176 | 174 | 177 | 182 | 184 | 184 | 184 | 184 | 184 | 184 | 186 | 187 | 187 | 187 | 186               |
| 24                         | 177 | 161 | 154 | 167 | 177 | 184 | 183 | 185 | 190 | 215 | 275 | 231 | 215 | 217 | 225 | 237 | 229 | 210 | 208 | 206 | 193 | 187 | 189               |
| 25                         | 186 | 180 | 190 | 197 | 198 | 196 | 192 | 192 | 191 | 190 | 191 | 194 | 197 | 198 | 198 | 198 | 198 | 197 | 197 | 188 | 183 | 186 | 191               |
| 26                         | 192 | 191 | 191 | 191 | 192 | 192 | 190 | 190 | 186 | 184 | 188 | 195 | 196 | 196 | 196 | 196 | 196 | 194 | 194 | 194 | 192 | 192 | 191               |
| 27                         | 191 | 191 | 191 | 191 | 194 | 195 | 190 | 188 | 188 | 186 | 186 | 190 | 191 | 191 | 192 | 192 | 192 | 190 | 186 | 184 | 188 | 190 | 190               |
| 28                         | 190 | 190 | 190 | 190 | 191 | 191 | 186 | 186 | 187 | 188 | 192 | 191 | 190 | 190 | 189 | 189 | 192 | 188 | 179 | 185 | 185 | 185 | 184               |
| 29                         | 182 | 184 | 185 | 185 | 186 | 188 | 188 | 188 | 188 | 189 | 190 | 194 | 195 | 197 | 201 | 201 | 195 | 142 | 124 | 76  | 42  | -28 | 46                |
| 30                         | 52  | 138 | 181 | 196 | 201 | 203 | 200 | 199 | 196 | 194 | 192 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196               |
| 31                         | 194 | 194 | 194 | 192 | 192 | 192 | 192 | 188 | 189 | 194 | 196 | 197 | 198 | 198 | 198 | 198 | 198 | 199 | 199 | 198 | 198 | 198 | 197               |
| Среднее<br>по всем<br>дням | 181 | 183 | 185 | 188 | 190 | 191 | 189 | 187 | 186 | 187 | 191 | 194 | 196 | 196 | 196 | 196 | 194 | 190 | 187 | 184 | 182 | 178 | 181               |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал

Шульц

Проверил

Шульц

Бедомство Министерство Высшего Образования  
Обсерватория Казанская / Займичи Широта 55° 50' N Долгота 48° 51' E

Элемент Склонение Среднемесячн.  $\delta = 10^{\circ} 25' 3$   
 $\delta = 10^{\circ}$  + . . . = . . . = . . .

Месяц Ноябрь Год 1963

| Время<br>мировое           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн. |      |      |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|
| Дни                        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                   |      |      |
| 1                          | 26.3 | 26.2 | 25.8 | 25.3 | 26.7 | 27.7 | 27.4 | 24.9 | 24.9 | 23.7 | 23.6 | 24.4 | 25.4 | 24.8 | 23.9 | 24.0 | 26.3 | 28.8 | 30.6 | 28.2 | 27.7 | 27.5 | 27.0              | 28.2 | 26.2 |
| 2                          | 27.8 | 27.5 | 26.5 | 25.3 | 26.1 | 26.8 | 26.8 | 25.1 | 24.9 | 23.8 | 22.3 | 23.4 | 23.4 | 24.2 | 24.2 | 27.0 | 32.4 | 33.8 | 27.9 | 29.3 | 26.7 | 28.5 | 27.8              | 26.7 | 26.6 |
| 3                          | 23.2 | 24.2 | 26.0 | 25.4 | 24.5 | 23.3 | 23.7 | 24.0 | 24.8 | 23.5 | 22.4 | 24.1 | 24.5 | 26.5 | 25.0 | 24.5 | 25.1 | 25.5 | 28.5 | 30.2 | 30.1 | 22.3 | 24.4              | 26.2 | 25.1 |
| 4                          | 25.7 | 25.5 | 25.0 | 25.5 | 26.6 | 26.5 | 26.5 | 24.6 | 23.3 | 23.1 | 23.3 | 24.2 | 25.0 | 25.4 | 25.9 | 24.5 | 25.3 | 25.3 | 26.5 | 26.5 | 27.5 | 27.3 | 26.8              | 25.3 | 25.5 |
| 5                          | 25.4 | 25.4 | 25.2 | 25.2 | 25.7 | 26.7 | 26.9 | 25.0 | 23.1 | 21.8 | 22.7 | 24.1 | 25.3 | 25.5 | 25.9 | 25.9 | 25.7 | 25.6 | 25.7 | 25.8 | 25.7 | 25.6 | 25.5              | 25.0 | 25.2 |
| 6                          | 24.5 | 23.5 | 23.1 | 24.4 | 25.2 | 25.8 | 25.1 | 23.7 | 22.2 | 20.8 | 21.0 | 22.6 | 23.8 | 25.5 | 32.1 | 28.3 | 26.5 | 26.2 | 31.2 | 30.6 | 31.2 | 26.8 | 25.4              | 26.1 | 25.6 |
| 7                          | 25.2 | 24.5 | 22.4 | 22.8 | 23.3 | 24.4 | 22.3 | 23.7 | 23.0 | 21.5 | 24.7 | 29.2 | 26.8 | 29.3 | 34.9 | 33.8 | 41.8 | 37.1 | 44.9 | 28.9 | 27.7 | 32.8 | 29.4              | 27.6 | 28.4 |
| 8                          | 23.8 | 26.2 | 24.6 | 24.3 | 24.6 | 25.9 | 27.4 | 23.9 | 25.2 | 24.2 | 24.6 | 25.0 | 35.2 | 28.8 | 30.6 | 32.0 | 33.2 | 28.6 | 29.0 | 29.4 | 22.2 | 22.2 | 29.0              | 27.3 | 27.0 |
| 9                          | 24.2 | 19.5 | 19.5 | 23.2 | 26.1 | 26.7 | 27.2 | 27.2 | 25.3 | 24.4 | 25.3 | 25.2 | 36.0 | 33.2 | 27.4 | 32.5 | 32.3 | 30.2 | 29.5 | 33.6 | 38.4 | 29.5 | 25.4              | 27.7 | 27.9 |
| 10                         | 21.5 | 18.5 | 17.4 | 19.8 | 24.2 | 26.3 | 26.0 | 25.9 | 24.2 | 26.5 | 26.6 | 24.8 | 29.1 | 29.5 | 26.6 | 30.0 | 30.8 | 30.5 | 29.3 | 29.6 | 24.6 | 25.2 | 28.0              | 19.0 | 25.6 |
| 11                         | 22.8 | 23.3 | 22.7 | 20.8 | 21.9 | 24.8 | 25.8 | 26.8 | 27.2 | 26.2 | 25.8 | 26.2 | 24.1 | 23.8 | 24.7 | 26.1 | 29.8 | 26.2 | 28.9 | 27.8 | 28.2 | 26.1 | 25.1              | 22.3 | 25.3 |
| 12                         | 24.9 | 24.6 | 24.0 | 23.5 | 22.3 | 24.2 | 25.2 | 26.3 | 26.6 | 25.3 | 25.5 | 26.0 | 24.1 | 24.5 | 25.2 | 32.5 | 32.8 | 31.0 | 25.6 | 27.7 | 26.8 | 26.2 | 25.8              | 24.2 | 26.0 |
| 13                         | 25.0 | 24.8 | 24.7 | 24.6 | 25.2 | 25.9 | 25.5 | 24.7 | 23.9 | 23.7 | 23.9 | 24.6 | 25.4 | 25.7 | 25.9 | 27.4 | 25.8 | 25.8 | 26.5 | 26.4 | 26.1 | 26.0 | 24.9              | 23.7 | 25.3 |
| 14                         | 24.6 | 24.3 | 24.0 | 24.2 | 24.0 | 23.4 | 24.4 | 23.8 | 23.7 | 23.3 | 23.3 | 23.8 | 24.2 | 24.3 | 24.3 | 24.3 | 24.4 | 25.0 | 25.5 | 25.6 | 25.8 | 25.7 | 25.8              | 25.2 | 24.5 |
| 15                         | 24.5 | 23.8 | 23.6 | 23.7 | 24.4 | 24.8 | 25.2 | 25.3 | 24.8 | 23.9 | 23.2 | 23.6 | 24.2 | 24.7 | 25.2 | 24.8 | 24.8 | 24.8 | 25.2 | 25.7 | 25.5 | 25.8 | 25.3              | 24.8 | 24.6 |
| 16                         | 24.3 | 23.7 | 22.8 | 23.6 | 23.8 | 24.1 | 25.0 | 24.9 | 24.6 | 24.3 | 23.7 | 24.2 | 24.3 | 24.3 | 24.9 | 24.4 | 24.2 | 24.7 | 25.0 | 25.2 | 25.2 | 24.9 | 24.5              | 23.9 | 24.4 |
| 17                         | 23.8 | 23.6 | 23.3 | 23.4 | 23.6 | 24.3 | 24.2 | 23.6 | 23.6 | 20.3 | 20.3 | 21.1 | 21.6 | 19.7 | 19.3 | 21.7 | 24.4 | 35.7 | 24.5 | 23.2 | 24.8 | 26.4 | 26.4              | 26.1 | 23.7 |
| 18                         | 26.1 | 25.8 | 25.5 | 25.3 | 25.9 | 25.9 | 25.5 | 24.7 | 24.2 | 24.2 | 23.8 | 24.0 | 24.3 | 24.3 | 24.0 | 24.2 | 24.7 | 25.0 | 25.0 | 25.7 | 25.2 | 25.7 | 25.5              | 25.2 | 25.0 |
| 19                         | 24.9 | 24.5 | 24.5 | 24.7 | 25.0 | 25.2 | 25.0 | 24.2 | 24.2 | 23.0 | 23.5 | 24.0 | 24.1 | 24.1 | 23.8 | 23.9 | 23.9 | 24.4 | 24.7 | 24.9 | 24.9 | 24.9 | 25.0              | 25.3 | 24.4 |
| 20                         | 25.2 | 25.2 | 24.2 | 23.2 | 25.1 | 24.7 | 23.7 | 23.2 | 22.7 | 22.4 | 22.8 | 23.6 | 23.6 | 23.6 | 24.1 | 23.7 | 23.8 | 24.1 | 24.4 | 24.9 | 25.3 | 24.8 | 24.2              | 24.0 | 24.0 |
| 21                         | 24.1 | 24.1 | 24.1 | 24.2 | 24.2 | 23.8 | 23.2 | 22.7 | 22.2 | 21.8 | 22.9 | 23.6 | 23.6 | 23.6 | 25.2 | 24.4 | 24.1 | 24.7 | 25.5 | 25.7 | 26.1 | 25.6 | 25.3              | 24.9 | 24.2 |
| 22                         | 24.7 | 24.4 | 24.4 | 24.3 | 24.2 | 23.8 | 23.1 | 22.8 | 22.3 | 22.6 | 23.2 | 23.6 | 23.2 | 22.5 | 22.5 | 22.0 | 23.0 | 31.8 | 34.2 | 27.6 | 28.6 | 26.0 | 25.1              | 24.9 | 24.8 |
| 23                         | 25.1 | 22.9 | 22.9 | 24.8 | 24.9 | 24.7 | 23.5 | 23.3 | 23.4 | 22.4 | 22.6 | 22.7 | 22.7 | 23.7 | 24.0 | 23.3 | 23.9 | 24.1 | 24.4 | 25.7 | 26.2 | 25.5 | 25.0              | 24.3 | 24.0 |
| 24                         | 24.2 | 24.2 | 23.7 | 22.7 | 21.4 | 22.6 | 22.9 | 21.9 | 21.7 | 22.6 | 22.8 | 22.7 | 23.8 | 26.8 | 25.5 | 25.0 | 36.7 | 32.3 | 32.6 | 35.3 | 32.4 | 30.5 | 32.6              | 28.1 | 26.5 |
| 25                         | 25.9 | 20.6 | 23.3 | 23.6 | 24.4 | 22.3 | 24.1 | 24.8 | 24.2 | 25.4 | 26.6 | 25.5 | 27.3 | 28.7 | 26.7 | 26.4 | 27.5 | 27.1 | 27.7 | 25.7 | 25.4 | 25.4 | 25.1              | 24.9 | 25.4 |
| 26                         | 24.7 | 24.6 | 24.4 | 24.4 | 24.6 | 25.2 | 25.2 | 25.0 | 24.3 | 23.5 | 23.5 | 23.9 | 24.5 | 24.4 | 24.4 | 24.7 | 25.1 | 25.3 | 25.5 | 25.3 | 25.1 | 24.7 | 24.4              | 24.3 | 24.6 |
| 27                         | 24.2 | 24.3 | 24.3 | 24.4 | 24.8 | 25.3 | 25.3 | 23.9 | 23.1 | 23.3 | 23.6 | 23.7 | 23.9 | 24.2 | 24.5 | 24.6 | 24.1 | 24.2 | 24.5 | 24.7 | 25.9 | 27.4 | 26.9              | 25.1 | 24.6 |
| 28                         | 24.3 | 24.3 | 24.5 | 24.4 | 22.0 | 24.4 | 24.4 | 23.9 | 23.4 | 23.0 | 22.7 | 23.0 | 23.9 | 23.9 | 23.6 | 24.4 | 24.5 | 24.7 | 24.9 | 25.2 | 25.2 | 25.2 | 24.9              | 24.8 | 24.1 |
| 29                         | 24.6 | 24.7 | 24.3 | 23.8 | 24.5 | 24.0 | 23.8 | 22.6 | 22.5 | 22.6 | 22.4 | 22.9 | 22.9 | 24.4 | 23.7 | 24.9 | 25.2 | 24.5 | 24.9 | 25.5 | 26.7 | 27.7 | 26.5              | 26.7 | 24.4 |
| 30                         | 24.3 | 24.0 | 25.4 | 25.1 | 25.2 | 24.7 | 23.7 | 22.5 | 21.9 | 21.3 | 22.7 | 23.7 | 33.5 | 23.5 | 23.2 | 24.5 | 27.1 | 27.9 | 29.5 | 28.4 | 27.2 | 26.3 | 24.2              | 24.4 | 25.2 |
| 31                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |      |
| Среднее<br>по всем<br>дням | 24.7 | 24.1 | 23.9 | 24.0 | 24.5 | 24.9 | 24.9 | 24.3 | 23.8 | 23.3 | 23.5 | 24.1 | 25.5 | 25.2 | 25.4 | 26.0 | 27.3 | 27.5 | 27.7 | 27.3 | 26.9 | 26.3 | 26.0              | 25.2 | 25.3 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные  
причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( ) Величины в скобках  
взяты с маш. Эдельмана.

Обработал Эдельман

Проверил Эдельман

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55° 50' N Долгота 48° 51' E

Элемент Горизонтальная составляющая  
H = 16400 + . . . = 0

Среднемесячи. H = 16534

Месяц Ноябрь Год 1963

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |       |     |     |     |     |     |     |       |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-------|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14    | 15  | 16  | 17  | 19  | 20  | 21  | 22    | 23  |                   |     |
| 1                          | 124 | 124 | 126 | 129 | 131 | 125 | 122 | 117 | 120 | 123 | 124 | 127 | 127 | 127   | 120 | 116 | 132 | 131 | 124 | 121 | 127   | 130 | 132               | 128 |
| 2                          | 124 | 124 | 128 | 133 | 137 | 133 | 124 | 118 | 118 | 122 | 129 | 135 | 129 | 132   | 124 | 120 | 167 | 112 | 115 | 133 | 140   | 132 | 124               | 123 |
| 3                          | 121 | 123 | 132 | 132 | 114 | 117 | 106 | 102 | 102 | 110 | 122 | 128 | 127 | 122   | 130 | 130 | 132 | 133 | 138 | 136 | 132   | 133 | 133               | 124 |
| 4                          | 133 | 133 | 133 | 133 | 129 | 122 | 120 | 120 | 124 | 126 | 132 | 135 | 132 | 130   | 132 | 134 | 134 | 132 | 144 | 145 | 143   | 134 | 130               | 131 |
| 5                          | 132 | 130 | 131 | 136 | 134 | 130 | 124 | 121 | 123 | 129 | 132 | 136 | 134 | 132   | 132 | 136 | 137 | 137 | 138 | 138 | 140   | 140 | 140               | 133 |
| 6                          | 142 | 141 | 142 | 144 | 144 | 148 | 141 | 133 | 130 | 129 | 131 | 130 | 133 | 123   | 113 | 115 | 123 | 136 | 146 | 142 | 147   | 131 | 140               | 133 |
| 7                          | 136 | 138 | 135 | 138 | 131 | 109 | 119 | 122 | 131 | 127 | 101 | 86  | 89  | 100   | 110 | 134 | 134 | 92  | 122 | 120 | 152   | 116 | 116               | 120 |
| 8                          | 110 | 127 | 111 | 127 | 124 | 96  | 70  | 81  | 109 | 116 | 117 | 97  | 99  | 114   | 111 | 112 | 141 | 136 | 122 | 129 | 149   | 140 | 129               | 116 |
| 9                          | 114 | 114 | 121 | 136 | 130 | 127 | 120 | 104 | 117 | 113 | 125 | 128 | 126 | 102   | 108 | 130 | 124 | 133 | 118 | 137 | 158   | 126 | 124               | 123 |
| 10                         | 112 | 117 | 106 | 130 | 130 | 127 | 124 | 121 | 120 | 100 | 102 | 118 | 120 | 126   | 126 | 151 | 149 | 129 | 140 | 128 | 135   | 134 | 140               | 125 |
| 11                         | 134 | 125 | 122 | 126 | 131 | 124 | 122 | 115 | 117 | 122 | 122 | 134 | 133 | 134   | 134 | 131 | 137 | 137 | 134 | 163 | 137   | 138 | 135               | 131 |
| 12                         | 139 | 139 | 138 | 135 | 134 | 136 | 134 | 124 | 124 | 117 | 111 | 125 | 129 | 132   | 130 | 136 | 118 | 120 | 130 | 134 | 130   | 133 | 133               | 130 |
| 13                         | 132 | 132 | 132 | 135 | 134 | 132 | 130 | 130 | 132 | 133 | 131 | 129 | 129 | 123   | 132 | 140 | 133 | 131 | 134 | 136 | 138   | 137 | 137               | 133 |
| 14                         | 136 | 136 | 137 | 142 | 140 | 136 | 137 | 136 | 132 | 130 | 132 | 136 | 136 | 134   | 135 | 136 | 139 | 140 | 140 | 142 | 141   | 141 | 140               | 137 |
| 15                         | 139 | 139 | 139 | 142 | 145 | 146 | 143 | 138 | 134 | 134 | 136 | 134 | 135 | 136   | 136 | 134 | 134 | 137 | 140 | 140 | 140   | 140 | 141               | 138 |
| 16                         | 140 | 140 | 139 | 142 | 144 | 142 | 138 | 136 | 136 | 136 | 138 | 140 | 138 | 138   | 140 | 142 | 142 | 142 | 142 | 142 | 142   | 141 | 141               | 140 |
| 17                         | 146 | 145 | 146 | 148 | 150 | 150 | 147 | 147 | 144 | 163 | 163 | 155 | 153 | 155   | 122 | 107 | 112 | 137 | 123 | 140 | 137   | 133 | 133               | 141 |
| 18                         | 134 | 132 | 133 | 135 | 130 | 127 | 124 | 123 | 123 | 129 | 133 | 136 | 138 | 138   | 139 | 140 | 140 | 140 | 140 | 142 | 138   | 138 | 139               | 135 |
| 19                         | 140 | 142 | 141 | 140 | 139 | 138 | 136 | 132 | 131 | 133 | 138 | 141 | 140 | 140   | 140 | 140 | 143 | 144 | 144 | 143 | 144   | 144 | 141               | 140 |
| 20                         | 141 | 142 | 144 | 151 | 146 | 143 | 140 | 138 | 138 | 141 | 146 | 146 | 146 | 142   | 140 | 142 | 144 | 146 | 147 | 148 | 146   | 144 | 144               | 144 |
| 21                         | 144 | 143 | 144 | 143 | 144 | 144 | 143 | 141 | 145 | 148 | 150 | 150 | 148 | 142   | 138 | 138 | 138 | 140 | 140 | 142 | 144   | 143 | 143               | 143 |
| 22                         | 140 | 141 | 143 | 144 | 148 | 147 | 147 | 144 | 146 | 148 | 142 | 143 | 150 | 156   | 158 | 157 | 149 | 144 | 137 | 130 | 137   | 134 | 138               | 144 |
| 23                         | 137 | 138 | 144 | 144 | 143 | 143 | 141 | 136 | 128 | 134 | 143 | 146 | 142 | 140   | 141 | 139 | 140 | 143 | 143 | 142 | 152   | 143 | 142               | 141 |
| 24                         | 142 | 143 | 141 | 147 | 155 | 160 | 154 | 147 | 142 | 140 | 130 | 124 | 117 | 103   | 105 | 102 | 94  | 110 | 107 | 106 | 125   | 127 | 144               | 129 |
| 25                         | 117 | 117 | 131 | 130 | 128 | 116 | 118 | 117 | 117 | 110 | 118 | 124 | 119 | 121   | 123 | 132 | 130 | 130 | 139 | 136 | 135   | 136 | 136               | 126 |
| 26                         | 138 | 138 | 139 | 140 | 142 | 140 | 137 | 134 | 130 | 132 | 137 | 138 | 137 | 132   | 136 | 138 | 139 | 140 | 140 | 141 | 140   | 140 | 140               | 138 |
| 27                         | 140 | 142 | 144 | 147 | 148 | 143 | 140 | 134 | 133 | 133 | 134 | 138 | 140 | 139   | 139 | 140 | 145 | 146 | 145 | 147 | 143   | 143 | 143               | 141 |
| 28                         | 142 | 143 | 144 | 141 | 144 | 151 | 147 | 141 | 140 | 138 | 141 | 141 | 141 | 142   | 143 | 142 | 143 | 143 | 145 | 143 | 143   | 143 | 142               | 143 |
| 29                         | 143 | 142 | 142 | 145 | 151 | 152 | 150 | 148 | 148 | 148 | 148 | 140 | 139 | (139) | 130 | 126 | 142 | 149 | 151 | 150 | 151   | 150 | 157               | 145 |
| 30                         | 135 | 139 | 139 | 141 | 142 | 145 | 152 | 149 | 149 | 148 | 145 | 133 | 102 | (123) | 137 | 133 | 133 | 140 | 140 | 140 | (137) | 135 | 136               | 138 |
| 31                         |     |     |     |     |     |     |     |     |     |     |     |     |     |       |     |     |     |     |     |     |       |     |                   |     |
| Среднее<br>по всем<br>дням | 134 | 134 | 135 | 139 | 138 | 135 | 132 | 128 | 129 | 130 | 132 | 132 | 131 | 131   | 130 | 132 | 136 | 134 | 136 | 138 | 141   | 137 | 137               | 134 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные  
причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( ) Величины в скобках  
взяты с маш. Эдельмана.

Обработал 8 март

Проверил 8 март

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займиха/ Широта 55° 50' N Долгота 48° 51' E

Элемент Вертикальная составляющая

Z = 49600 +

Среднемесячи. Z = 49790

Месяц Ноябрь Год 1963

| 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. |     |
|----------------------------|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-------------------|-----|
| Дни                        |                                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                |     |     |     |     |                   |     |
| 1                          | 195                                       | 195 | 194 | 195 | 196 | 197 | 196 | 192 | 191 | 191 | 195 | 197 | 195 | 195 | 197 | 198 | 198 | 196 | 198            | 197 | 196 | 195 | 191 | 191               | 195 |
| 2                          | 191                                       | 191 | 193 | 193 | 193 | 195 | 191 | 190 | 191 | 188 | 191 | 194 | 193 | 194 | 197 | 198 | 193 | 190 | 197            | 193 | 186 | 185 | 189 | 190               | 192 |
| 3                          | 187                                       | 189 | 189 | 189 | 190 | 191 | 190 | 190 | 193 | 193 | 195 | 196 | 195 | 196 | 194 | 193 | 193 | 193 | 193            | 191 | 189 | 183 | 179 | 186               | 191 |
| 4                          | 188                                       | 189 | 189 | 190 | 193 | 193 | 188 | 185 | 187 | 187 | 189 | 190 | 191 | 191 | 191 | 190 | 190 | 190 | 189            | 183 | 181 | 183 | 186 | 187               | 188 |
| 5                          | 187                                       | 187 | 187 | 189 | 189 | 190 | 191 | 189 | 189 | 191 | 195 | 195 | 194 | 195 | 195 | 195 | 194 | 194 | 194            | 193 | 193 | 193 | 192 | 191               | 192 |
| 6                          | 189                                       | 189 | 189 | 189 | 191 | 189 | 183 | 179 | 185 | 190 | 194 | 195 | 193 | 195 | 203 | 203 | 202 | 197 | 192            | 188 | 181 | 176 | 175 | 183               | 190 |
| 7                          | 186                                       | 186 | 186 | 187 | 189 | 191 | 188 | 187 | 189 | 191 | 197 | 209 | 215 | 218 | 219 | 203 | 205 | 197 | 180            | 147 | 139 | 161 | 180 | 178               | 189 |
| 8                          | 167                                       | 170 | 182 | 186 | 186 | 190 | 201 | 201 | 199 | 198 | 198 | 205 | 216 | 211 | 213 | 214 | 207 | 189 | 197            | 195 | 177 | 171 | 177 | 183               | 193 |
| 9                          | 184                                       | 179 | 183 | 186 | 191 | 193 | 195 | 194 | 195 | 195 | 195 | 197 | 206 | 207 | 207 | 209 | 197 | 197 | 179            | 170 | 161 | 155 | 164 | 164               | 188 |
| 10                         | 170                                       | 172 | 176 | 181 | 183 | 187 | 190 | 191 | 193 | 196 | 201 | 203 | 208 | 206 | 205 | 199 | 195 | 193 | 184            | 191 | 185 | 188 | 184 | 178               | 190 |
| 11                         | 181                                       | 184 | 189 | 191 | 191 | 193 | 191 | 191 | 198 | 198 | 199 | 201 | 197 | 196 | 197 | 197 | 197 | 195 | 196            | 183 | 181 | 183 | 186 | 183               | 192 |
| 12                         | 184                                       | 185 | 187 | 189 | 190 | 191 | 191 | 191 | 194 | 195 | 197 | 199 | 197 | 197 | 195 | 198 | 198 | 198 | 189            | 189 | 191 | 191 | 190 | 190               | 192 |
| 13                         | 189                                       | 190 | 191 | 191 | 191 | 191 | 191 | 189 | 189 | 189 | 190 | 193 | 193 | 193 | 194 | 191 | 193 | 195 | 195            | 191 | 191 | 190 | 189 | 189               | 191 |
| 14                         | 187                                       | 188 | 188 | 188 | 188 | 189 | 189 | 189 | 191 | 189 | 191 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194            | 194 | 193 | 191 | 189 | 189               | 191 |
| 15                         | 189                                       | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 191 | 191 | 191 | 191 | 191 | 191 | 191 | 191 | 191            | 189 | 188 | 188 | 188 | 188               | 190 |
| 16                         | 187                                       | 187 | 187 | 187 | 186 | 189 | 189 | 190 | 189 | 189 | 191 | 191 | 191 | 193 | 193 | 193 | 193 | 193 | 193            | 192 | 191 | 191 | 190 | 189               | 190 |
| 17                         | 189                                       | 189 | 189 | 189 | 188 | 189 | 191 | 191 | 191 | 189 | 187 | 189 | 189 | 191 | 201 | 228 | 240 | 227 | 221            | 209 | 202 | 199 | 198 | 196               | 199 |
| 18                         | 195                                       | 195 | 195 | 195 | 195 | 193 | 193 | 196 | 195 | 194 | 194 | 195 | 193 | 193 | 193 | 192 | 192 | 192 | 191            | 191 | 191 | 191 | 190 | 190               | 193 |
| 19                         | 189                                       | 189 | 189 | 189 | 189 | 190 | 190 | 190 | 190 | 190 | 191 | 190 | 189 | 189 | 189 | 189 | 189 | 189 | 189            | 189 | 189 | 188 | 188 | 188               | 189 |
| 20                         | 187                                       | 187 | 187 | 185 | 185 | 185 | 185 | 185 | 187 | 189 | 189 | 189 | 189 | 189 | 189 | 188 | 188 | 188 | 188            | 188 | 186 | 186 | 186 | 186               | 187 |
| 21                         | 185                                       | 185 | 185 | 185 | 185 | 184 | 181 | 182 | 183 | 183 | 187 | 188 | 188 | 190 | 192 | 193 | 195 | 195 | 195            | 195 | 193 | 193 | 191 | 191               | 188 |
| 22                         | 191                                       | 191 | 191 | 191 | 190 | 189 | 187 | 187 | 187 | 187 | 187 | 189 | 187 | 187 | 185 | 185 | 187 | 192 | 191            | 193 | 191 | 191 | 191 | 191               | 189 |
| 23                         | 188                                       | 186 | 184 | 183 | 185 | 185 | 185 | 183 | 185 | 187 | 187 | 189 | 189 | 191 | 191 | 193 | 193 | 193 | 193            | 193 | 188 | 188 | 188 | 188               | 188 |
| 24                         | 188                                       | 188 | 187 | 186 | 185 | 183 | 181 | 182 | 185 | 187 | 191 | 193 | 197 | 211 | 209 | 217 | 219 | 207 | 201            | 189 | 173 | 155 | 154 | 162               | 189 |
| 25                         | 173                                       | 179 | 182 | 185 | 189 | 189 | 187 | 189 | 191 | 195 | 198 | 198 | 198 | 199 | 196 | 195 | 193 | 195 | 191            | 189 | 189 | 189 | 188 | 188               | 190 |
| 26                         | 187                                       | 187 | 187 | 187 | 187 | 187 | 185 | 181 | 183 | 185 | 188 | 191 | 193 | 193 | 193 | 193 | 193 | 193 | 193            | 191 | 190 | 189 | 189 | 189               | 189 |
| 27                         | 189                                       | 189 | 189 | 189 | 189 | 187 | 183 | 185 | 188 | 189 | 190 | 190 | 189 | 189 | 189 | 189 | 188 | 188 | 187            | 187 | 187 | 185 | 183 | 183               | 188 |
| 28                         | 185                                       | 185 | 185 | 185 | 183 | 183 | 181 | 181 | 182 | 184 | 188 | 189 | 190 | 190 | 190 | 190 | 190 | 190 | 190            | 190 | 190 | 189 | 188 | 187               | 187 |
| 29                         | 187                                       | 187 | 187 | 187 | 186 | 186 | 184 | 184 | 185 | 184 | 183 | 186 | 188 | 190 | 197 | 201 | 198 | 195 | 193            | 194 | 192 | 190 | 175 | 180               | 188 |
| 30                         | 181                                       | 181 | 183 | 183 | 183 | 184 | 183 | 181 | 180 | 183 | 186 | 189 | 206 | 200 | 194 | 194 | 194 | 194 | 191            | 189 | 190 | 187 | 187 | 185               | 188 |
| 31                         |                                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                |     |     |     |     |                   |     |
| Среднее<br>по всем<br>дням | 186                                       | 186 | 187 | 188 | 188 | 189 | 188 | 188 | 189 | 190 | 192 | 194 | 195 | 196 | 196 | 197 | 197 | 195 | 192            | 189 | 186 | 185 | 185 | 185               | 190 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( ) Величины в скобках  
взяты с маш. Эдельмана.

Обработал Шифр

Проверил Шифр

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55°50' N Долгота 48°51' E

Элемент Склонение Среднемесячн. Δ = 10°24'9

Месяц Декабрь Год 1963

Δ = 10° + . . . = . . . °

| Время<br>мировое           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Средн.<br>суточн |      |      |
|----------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|------|------|
| Дни                        |  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 19   | 20   | 21   | 22   | 23   |                  |      |      |
| 1                          |  | 24.4 | 24.4 | 24.0 | 24.3 | 24.2 | 24.2 | 23.7 | 23.2 | 23.0 | 23.2 | 23.5 | 23.5 | 23.9 | 24.8 | 24.4 | 27.9 | 24.4 | 24.8 | 26.5 | 25.5 | 24.9 | 25.4 | 24.6             | 25.1 | 24.5 |
| 2                          |  | 24.4 | 24.4 | 23.5 | 23.7 | 23.8 | 24.3 | 24.5 | 23.9 | 23.5 | 22.7 | 22.5 | 22.9 | 23.4 | 23.1 | 27.8 | 27.9 | 25.3 | 28.7 | 31.8 | 28.6 | 26.5 | 25.5 | 25.6             | 23.7 | 25.1 |
| 3                          |  | 21.8 | 22.2 | 19.5 | 20.2 | 23.2 | 23.4 | 23.6 | 25.3 | 24.3 | 24.0 | 23.8 | 28.5 | 31.2 | 32.3 | 35.8 | 29.1 | 32.8 | 32.8 | 29.2 | 30.8 | 28.6 | 21.7 | 28.9             | 27.3 | 26.7 |
| 4                          |  | 26.5 | 25.0 | 24.5 | 23.8 | 24.5 | 24.1 | 26.7 | 25.6 | 25.0 | 24.5 | 24.6 | 25.0 | 27.6 | 29.0 | 28.9 | 32.2 | 31.8 | 32.7 | 26.6 | 22.5 | 21.1 | 31.6 | 33.3             | 23.6 | 26.7 |
| 5                          |  | 22.8 | 25.3 | 25.7 | 23.8 | 24.8 | 24.5 | 24.1 | 24.5 | 24.9 | 26.4 | 27.0 | 25.2 | 24.6 | 26.6 | 42.4 | 30.9 | 32.1 | 24.9 | 29.7 | 27.4 | 27.3 | 29.6 | 29.4             | 26.6 | 27.1 |
| 6                          |  | 24.3 | 22.8 | 23.7 | 22.8 | 23.7 | 24.5 | 23.6 | 23.4 | 24.5 | 25.2 | 23.8 | 24.4 | 32.7 | 28.8 | 29.8 | 25.8 | 26.9 | 22.2 | 22.5 | 30.2 | 26.8 | 26.3 | 24.5             | 25.3 | 25.4 |
| 7                          |  | 24.7 | 22.3 | 22.4 | 23.2 | 23.5 | 23.8 | 25.4 | 26.5 | 27.2 | 26.6 | 26.7 | 25.6 | 35.7 | 29.7 | 27.4 | 31.2 | 28.5 | 27.1 | 25.7 | 25.6 | 24.9 | 25.7 | 25.8             | 24.5 | 26.2 |
| 8                          |  | 21.3 | 23.6 | 23.6 | 22.8 | 23.6 | 23.2 | 21.1 | 22.8 | 24.2 | 24.9 | 24.9 | 25.5 | 30.4 | 27.7 | 27.3 | 30.1 | 28.2 | 27.2 | 25.7 | 26.7 | 26.6 | 22.8 | 25.0             | 24.5 | 25.2 |
| 9                          |  | 24.5 | 24.0 | 24.0 | 24.0 | 24.4 | 24.0 | 23.8 | 24.8 | 24.2 | 24.7 | 27.1 | 24.4 | 24.9 | 26.2 | 30.2 | 28.7 | 24.9 | 24.8 | 24.7 | 25.0 | 24.9 | 24.8 | 24.5             | 24.4 | 25.1 |
| 10                         |  | 24.0 | 23.8 | 23.8 | 23.8 | 24.0 | 24.0 | 24.4 | 24.7 | 24.4 | 23.7 | 23.3 | 23.6 | 23.9 | 23.9 | 24.2 | 23.9 | 24.0 | 24.1 | 24.3 | 24.4 | 24.4 | 24.4 | 24.1             | 23.7 | 24.0 |
| 11                         |  | 23.5 | 23.2 | 22.9 | 23.0 | 23.6 | 24.3 | 24.4 | 24.0 | 23.6 | 22.7 | 23.0 | 23.7 | 24.0 | 23.6 | 23.8 | 23.8 | 24.2 | 24.2 | 25.3 | 24.6 | 24.3 | 24.1 | 23.7             | 23.7 | 23.8 |
| 12                         |  | 22.9 | 22.5 | 23.3 | 23.4 | 23.7 | 23.7 | 23.7 | 24.1 | 23.6 | 22.4 | 22.5 | 23.8 | 24.1 | 24.0 | 24.0 | 24.1 | 24.4 | 24.9 | 24.9 | 24.8 | 25.7 | 24.4 | 23.6             | 20.8 | 23.7 |
| 13                         |  | 24.1 | 23.6 | 22.7 | 21.8 | 22.4 | 23.4 | 23.0 | 23.9 | 23.3 | 21.6 | 22.1 | 22.5 | 23.7 | 23.7 | 24.2 | 24.2 | 24.2 | 24.5 | 24.6 | 25.4 | 25.3 | 25.3 | 25.6             | 25.3 | 23.8 |
| 14                         |  | 24.7 | 23.9 | 23.8 | 22.7 | 23.8 | 24.2 | 23.7 | 23.6 | 24.3 | 22.8 | 22.3 | 22.8 | 22.1 | 23.7 | 22.8 | 22.4 | 26.7 | 25.7 | 26.3 | 29.4 | 31.7 | 30.5 | 26.3             | 25.5 | 24.8 |
| 15                         |  | 24.2 | 24.2 | 23.9 | 23.5 | 24.3 | 24.4 | 23.7 | 22.9 | 22.9 | 22.3 | 23.2 | 23.6 | 24.4 | 24.4 | 24.0 | 24.7 | 26.5 | 26.5 | 25.5 | 26.0 | 25.6 | 24.9 | 24.9             | 25.4 | 24.4 |
| 16                         |  | 25.3 | 24.4 | 25.5 | 24.4 | 24.7 | 25.2 | 25.1 | 24.9 | 23.5 | 22.6 | 23.2 | 23.5 | 24.1 | 24.9 | 24.3 | 26.7 | 24.8 | 25.3 | 26.8 | 26.4 | 25.6 | 25.4 | 26.3             | 24.8 | 24.9 |
| 17                         |  | 25.5 | 25.2 | 24.4 | 24.2 | 24.6 | 24.6 | 23.8 | 23.8 | 23.4 | 22.7 | 23.5 | 24.4 | 24.6 | 24.4 | 25.0 | 25.0 | 25.5 | 24.7 | 26.1 | 26.0 | 25.8 | 24.9 | 24.6             | 24.4 | 24.6 |
| 18                         |  | 24.0 | 24.3 | 24.0 | 24.3 | 24.3 | 24.0 | 23.3 | 22.8 | 22.2 | 21.7 | 22.8 | 23.4 | 23.3 | 23.3 | 23.4 | 23.3 | 23.6 | 23.7 | 24.2 | 24.5 | 24.9 | 24.7 | 25.0             | 24.4 | 23.7 |
| 19                         |  | 24.5 | 24.1 | 23.7 | 23.7 | 23.8 | 23.7 | 23.3 | 23.2 | 22.4 | 22.1 | 22.3 | 22.8 | 23.2 | 23.1 | 23.2 | 23.3 | 23.3 | 24.3 | 25.0 | 25.2 | 24.7 | 25.3 | 26.3             | 28.9 | 24.0 |
| 20                         |  | 28.3 | 25.6 | 24.3 | 23.3 | 22.7 | 22.4 | 24.3 | 17.7 | 18.8 | 19.8 | 22.4 | 24.1 | 24.6 | 26.4 | 25.7 | 27.8 | 32.7 | 27.7 | 27.5 | 27.6 | 29.6 | 27.7 | 25.9             | 25.5 | 25.1 |
| 21                         |  | 24.8 | 24.3 | 23.4 | 23.3 | 23.8 | 23.8 | 23.7 | 22.8 | 23.8 | 22.6 | 23.4 | 24.4 | 24.1 | 24.9 | 25.8 | 24.8 | 27.8 | 29.4 | 27.1 | 27.4 | 25.6 | 24.4 | 23.6             | 26.8 | 24.8 |
| 22                         |  | 25.7 | 24.9 | 24.4 | 23.6 | 23.7 | 23.1 | 23.8 | 23.8 | 23.2 | 23.2 | 23.7 | 24.6 | 26.2 | 32.0 | 27.6 | 27.5 | 27.7 | 29.5 | 34.9 | 26.3 | 27.6 | 24.7 | 21.7             | 22.3 | 25.7 |
| 23                         |  | 24.6 | 24.6 | 24.4 | 24.4 | 24.6 | 24.6 | 24.5 | 23.6 | 23.8 | 23.3 | 23.2 | 23.7 | 24.5 | 24.4 | 24.4 | 24.8 | 31.6 | 32.7 | 26.7 | 27.4 | 25.6 | 25.4 | 24.5             | 23.7 | 25.2 |
| 24                         |  | 22.1 | 24.8 | 25.0 | 25.5 | 25.3 | 25.7 | 25.2 | 24.4 | 23.6 | 22.5 | 23.0 | 23.8 | 24.4 | 25.5 | 25.7 | 25.3 | 26.5 | 31.0 | 27.4 | 26.4 | 22.1 | 24.4 | 24.8             | 24.3 | 24.9 |
| 25                         |  | 24.1 | 24.1 | 23.8 | 24.0 | 24.5 | 24.8 | 24.8 | 24.4 | 23.4 | 22.8 | 24.7 | 24.6 | 25.3 | 24.9 | 25.0 | 24.9 | 24.9 | 25.5 | 25.7 | 24.8 | 24.8 | 24.8 | 24.4             | 24.4 | 24.6 |
| 26                         |  | 24.3 | 24.3 | 24.3 | 24.3 | 24.4 | 24.3 | 24.3 | 23.6 | 23.4 | 23.2 | 23.3 | 23.6 | 24.7 | 24.8 | 24.7 | 25.4 | 25.3 | 24.9 | 24.9 | 25.4 | 25.6 | 25.4 | 24.6             | 25.3 | 24.5 |
| 27                         |  | 25.4 | 24.1 | 23.5 | 22.3 | 23.3 | 24.2 | 23.6 | 23.5 | 23.5 | 22.5 | 22.4 | 23.4 | 23.9 | 23.8 | 23.2 | 23.6 | 23.8 | 24.2 | 24.6 | 25.8 | 24.6 | 24.5 | 24.1             | 23.8 | 23.8 |
| 28                         |  | 22.8 | 22.7 | 23.6 | 23.4 | 22.7 | 23.7 | 23.7 | 23.9 | 22.7 | 21.9 | 22.2 | 22.6 | 23.5 | 23.5 | 23.7 | 22.8 | 23.9 | 26.4 | 26.8 | 26.8 | 23.2 | 27.0 | 25.0             | 23.4 | 23.8 |
| 29                         |  | 24.7 | 24.6 | 22.1 | 24.1 | 24.2 | 24.2 | 23.3 | 23.5 | 23.2 | 22.2 | 20.9 | 24.7 | 25.4 | 26.2 | 28.7 | 27.5 | 36.2 | 28.4 | 27.7 | 27.1 | 27.5 | 26.7 | 26.5             | 25.9 | 25.6 |
| 30                         |  | 26.5 | 26.2 | 24.6 | 24.8 | 24.8 | 25.1 | 25.0 | 25.0 | 24.4 | 23.6 | 23.8 | 24.5 | 24.5 | 24.3 | 25.0 | 27.6 | 24.6 | 25.6 | 26.5 | 26.5 | 26.6 | 26.7 | 25.8             | 25.6 | 25.3 |
| 31                         |  | 25.2 | 24.6 | 24.2 | 24.0 | 24.1 | 24.2 | 24.5 | 24.4 | 23.6 | 23.2 | 23.6 | 24.0 | 24.3 | 25.1 | 24.9 | 24.5 | 24.4 | 24.5 | 25.2 | 25.4 | 25.7 | 25.4 | 25.4             | 24.5 | 24.5 |
| Среднее<br>по всем<br>дням |  | 24.4 | 24.1 | 23.8 | 23.6 | 24.0 | 24.1 | 24.1 | 23.8 | 23.6 | 23.1 | 23.5 | 24.1 | 25.4 | 25.6 | 26.4 | 26.2 | 26.8 | 26.5 | 26.5 | 26.3 | 25.7 | 25.6 | 25.4             | 24.8 | 24.9 |

Условные обозначения: Δ — погасла лампа; > или < — запись вышла за бумагу; □ — остановились часы; — — — — — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал

Проверил

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займица/ Широта 55°50'N Долгота 48°51'E

Среднемесечн. N = 16540

Элемент Горизонтальная освещенность

Месяц Декабрь Год 1963

N = 16400 + . . . = 0

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |
| 1                          | 134 | 138 | 140 | 142 | 146 | 148 | 145 | 143 | 142 | 141 | 142 | 143 | 142 | 140 | 138 | 138 | 139 | 145 | 143 | 141 | 141 | 143 | 147               | 142 |
| 2                          | 141 | 141 | 148 | 145 | 149 | 151 | 149 | 142 | 145 | 142 | 142 | 145 | 142 | 138 | 131 | 130 | 121 | 120 | 130 | 134 | 138 | 140 | 141               | 139 |
| 3                          | 146 | 141 | 139 | 159 | 147 | 150 | 141 | 118 | 108 | 138 | 128 | 115 | 110 | 105 | 132 | 120 | 130 | 130 | 117 | 127 | 124 | 131 | 129               | 131 |
| 4                          | 130 | 130 | 130 | 122 | 134 | 140 | 129 | 133 | 133 | 130 | 132 | 131 | 120 | 124 | 134 | 160 | 148 | 128 | 149 | 141 | 148 | 132 | 136               | 135 |
| 5                          | 128 | 137 | 131 | 129 | 129 | 135 | 134 | 139 | 140 | 137 | 132 | 138 | 136 | 113 | 120 | 112 | 123 | 142 | 148 | 134 | 138 | 128 | 124               | 132 |
| 6                          | 121 | 128 | 137 | 138 | 130 | 127 | 137 | 136 | 130 | 130 | 133 | 136 | 132 | 140 | 140 | 140 | 143 | 140 | 132 | 132 | 135 | 134 | 132               | 135 |
| 7                          | 132 | 128 | 129 | 135 | 138 | 135 | 132 | 130 | 126 | 126 | 130 | 129 | 123 | 138 | 121 | 124 | 126 | 138 | 138 | 139 | 139 | 136 | 130               | 131 |
| 8                          | 130 | 136 | 138 | 142 | 134 | 123 | 129 | 129 | 126 | 126 | 129 | 132 | 127 | 128 | 129 | 148 | 131 | 137 | 138 | 130 | 133 | 137 | 136               | 132 |
| 9                          | 137 | 137 | 138 | 139 | 140 | 138 | 137 | 132 | 125 | 125 | 124 | 125 | 126 | 120 | 130 | 141 | 134 | 141 | 141 | 140 | 140 | 140 | 140               | 135 |
| 10                         | 144 | 144 | 144 | 147 | 149 | 150 | 149 | 150 | 150 | 148 | 147 | 144 | 147 | 148 | 146 | 146 | 146 | 146 | 146 | 146 | 145 | 145 | 146               | 147 |
| 11                         | 147 | 148 | 150 | 152 | 155 | 153 | 148 | 145 | 140 | 139 | 140 | 142 | 146 | 144 | 144 | 144 | 146 | 149 | 148 | 148 | 148 | 148 | 145               | 146 |
| 12                         | 146 | 146 | 150 | 152 | 153 | 152 | 149 | 149 | 146 | 146 | 145 | 146 | 146 | 144 | 142 | 141 | 139 | 141 | 141 | 151 | 148 | 146 | 154               | 146 |
| 13                         | 153 | 149 | 153 | 155 | 158 | 148 | 146 | 144 | 142 | 141 | 143 | 147 | 146 | 142 | 137 | 138 | 142 | 142 | 142 | 147 | 147 | 140 | 141               | 145 |
| 14                         | 140 | 142 | 144 | 147 | 150 | 148 | 145 | 142 | 142 | 148 | 151 | 156 | 140 | 132 | 116 | 97  | 114 | 136 | 143 | 138 | 132 | 136 | 136               | 138 |
| 15                         | 136 | 137 | 137 | 140 | 139 | 137 | 133 | 139 | 140 | 140 | 142 | 136 | 134 | 140 | 138 | 130 | 134 | 143 | 142 | 140 | 140 | 138 | 139               | 138 |
| 16                         | 139 | 133 | 142 | 141 | 141 | 141 | 137 | 133 | 135 | 140 | 144 | 145 | 140 | 140 | 139 | 142 | 146 | 141 | 144 | 140 | 141 | 141 | 145               | 140 |
| 17                         | 141 | 140 | 141 | 142 | 142 | 141 | 140 | 140 | 143 | 146 | 147 | 147 | 147 | 144 | 141 | 144 | 144 | 140 | 144 | 144 | 140 | 143 | 143               | 143 |
| 18                         | 144 | 144 | 144 | 144 | 146 | 146 | 146 | 145 | 146 | 146 | 149 | 150 | 152 | 151 | 150 | 150 | 148 | 146 | 146 | 147 | 148 | 147 | 146               | 147 |
| 19                         | 146 | 146 | 147 | 147 | 149 | 151 | 148 | 146 | 146 | 150 | 152 | 153 | 154 | 156 | 154 | 152 | 147 | 148 | 150 | 151 | 148 | 162 | 150               | 150 |
| 20                         | 139 | 139 | 145 | 152 | 159 | 160 | 142 | 132 | 135 | 141 | 136 | 130 | 117 | 104 | 107 | 115 | 126 | 128 | 156 | 160 | 132 | 139 | 137               | 136 |
| 21                         | 133 | 137 | 139 | 140 | 142 | 142 | 142 | 144 | 142 | 146 | 149 | 149 | 148 | 129 | 135 | 130 | 127 | 130 | 138 | 136 | 140 | 150 | 146               | 140 |
| 22                         | 132 | 138 | 141 | 147 | 147 | 142 | 140 | 137 | 140 | 140 | 134 | 133 | 130 | 110 | 121 | 126 | 131 | 134 | 147 | 137 | 135 | 138 | 136               | 135 |
| 23                         | 137 | 139 | 140 | 141 | 143 | 141 | 136 | 136 | 133 | 129 | 143 | 146 | 144 | 143 | 144 | 140 | 131 | 137 | 146 | 136 | 138 | 144 | 129               | 138 |
| 24                         | 139 | 135 | 136 | 139 | 139 | 137 | 133 | 132 | 133 | 140 | 143 | 143 | 140 | 132 | 130 | 139 | 138 | 139 | 135 | 151 | 149 | 141 | 141               | 139 |
| 25                         | 140 | 142 | 143 | 145 | 146 | 143 | 140 | 138 | 140 | 144 | 135 | 140 | 140 | 140 | 140 | 141 | 143 | 141 | 143 | 142 | 142 | 142 | 142               | 141 |
| 26                         | 142 | 142 | 143 | 147 | 146 | 145 | 142 | 142 | 141 | 140 | 142 | 145 | 143 | 142 | 140 | 136 | 135 | 143 | 143 | 144 | 146 | 146 | 150               | 143 |
| 27                         | 143 | 143 | 148 | 151 | 151 | 151 | 146 | 146 | 143 | 146 | 150 | 149 | 144 | 143 | 143 | 148 | 150 | 146 | 146 | 150 | 146 | 149 | 149               | 147 |
| 28                         | 149 | 152 | 151 | 153 | 157 | 158 | 153 | 151 | 158 | 152 | 155 | 156 | 155 | 153 | 148 | 145 | 143 | 142 | 142 | 145 | 180 | 150 | 147               | 152 |
| 29                         | 146 | 142 | 144 | 154 | 155 | 155 | 152 | 148 | 152 | 153 | 151 | 132 | 110 | 102 | 113 | 123 | 130 | 137 | 148 | 134 | 132 | 139 | 140               | 138 |
| 30                         | 140 | 138 | 136 | 140 | 141 | 138 | 134 | 132 | 131 | 132 | 138 | 140 | 141 | 140 | 136 | 140 | 143 | 145 | 140 | 140 | 138 | 143 | 145               | 139 |
| 31                         | 143 | 143 | 143 | 145 | 148 | 150 | 146 | 140 | 138 | 137 | 141 | 146 | 146 | 143 | 144 | 146 | 147 | 144 | 142 | 141 | 141 | 146 | 149               | 144 |
| Среднее<br>по всем<br>дням | 139 | 140 | 142 | 144 | 145 | 144 | 141 | 139 | 138 | 140 | 141 | 141 | 138 | 134 | 135 | 136 | 137 | 139 | 142 | 143 | 141 | 142 | 141               | 140 |

Ведомство Министерство Высшего Образования  
Обсерватория Казанская /Займище/ Широта 55°50'N Долгота 48°51'E

Элемент Вертикальная составляющая

Месяц Декабрь Год 1963

$\Sigma = 49600 +$  Среднемесячи.  $\Sigma = 49784$

| Время<br>мировое           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Средн.<br>суточн. |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|
| Дни                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 21  | 22  | 23  |                   |     |
| 1                          | 186 | 186 | 186 | 186 | 186 | 186 | 188 | 185 | 185 | 185 | 186 | 188 | 189 | 191 | 191 | 191 | 191 | 190 | 189 | 189 | 189 | 186 | 183               | 188 |
| 2                          | 183 | 184 | 184 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 185 | 186 | 187 | 192 | 194 | 198 | 200 | 196 | 192 | 189 | 187 | 183               | 188 |
| 3                          | 179 | 179 | 180 | 180 | 180 | 181 | 181 | 184 | 194 | 193 | 194 | 200 | 203 | 211 | 208 | 202 | 203 | 186 | 183 | 173 | 161 | 175 | 183               | 188 |
| 4                          | 183 | 186 | 188 | 189 | 191 | 191 | 189 | 189 | 190 | 190 | 193 | 201 | 198 | 198 | 198 | 191 | 188 | 190 | 183 | 175 | 167 | 154 | 153               | 186 |
| 5                          | 163 | 172 | 177 | 182 | 184 | 185 | 185 | 185 | 186 | 186 | 186 | 188 | 189 | 194 | 203 | 199 | 198 | 181 | 169 | 168 | 168 | 171 | 178               | 182 |
| 6                          | 179 | 181 | 181 | 182 | 183 | 185 | 183 | 183 | 183 | 184 | 185 | 188 | 195 | 192 | 197 | 187 | 189 | 173 | 177 | 180 | 176 | 173 | 177               | 183 |
| 7                          | 181 | 181 | 181 | 183 | 183 | 183 | 184 | 184 | 185 | 185 | 188 | 192 | 198 | 194 | 194 | 196 | 196 | 190 | 185 | 185 | 183 | 183 | 183               | 187 |
| 8                          | 183 | 183 | 184 | 184 | 185 | 186 | 188 | 188 | 185 | 186 | 191 | 193 | 197 | 195 | 194 | 189 | 188 | 183 | 181 | 181 | 181 | 181 | 183               | 187 |
| 9                          | 184 | 185 | 185 | 185 | 185 | 185 | 186 | 189 | 189 | 189 | 191 | 196 | 196 | 198 | 200 | 194 | 193 | 191 | 191 | 190 | 190 | 189 | 189               | 190 |
| 10                         | 189 | 189 | 189 | 187 | 186 | 184 | 185 | 184 | 182 | 182 | 184 | 187 | 187 | 187 | 186 | 186 | 186 | 186 | 184 | 184 | 184 | 184 | 184               | 186 |
| 11                         | 183 | 183 | 183 | 183 | 183 | 183 | 182 | 182 | 179 | 180 | 184 | 187 | 188 | 188 | 188 | 188 | 188 | 188 | 187 | 186 | 186 | 184 | 184               | 185 |
| 12                         | 184 | 184 | 183 | 183 | 182 | 182 | 184 | 184 | 181 | 181 | 182 | 183 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 181 | 181 | 179 | 176               | 183 |
| 13                         | 171 | 174 | 176 | 176 | 174 | 174 | 174 | 176 | 177 | 179 | 184 | 186 | 186 | 186 | 189 | 189 | 189 | 187 | 187 | 187 | 184 | 182 | 182               | 181 |
| 14                         | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 184 | 183 | 183 | 184 | 183 | 183 | 186 | 192 | 211 | 208 | 192 | 188 | 188 | 182 | 183 | 185               | 187 |
| 15                         | 185 | 184 | 182 | 182 | 182 | 181 | 181 | 181 | 181 | 180 | 184 | 187 | 189 | 189 | 190 | 192 | 192 | 187 | 186 | 187 | 186 | 186 | 186               | 185 |
| 16                         | 186 | 186 | 184 | 184 | 184 | 184 | 184 | 184 | 180 | 181 | 184 | 184 | 184 | 184 | 184 | 186 | 183 | 184 | 184 | 182 | 183 | 182 | 178               | 183 |
| 17                         | 178 | 179 | 180 | 180 | 180 | 180 | 180 | 182 | 180 | 182 | 184 | 185 | 185 | 185 | 186 | 186 | 186 | 186 | 186 | 184 | 184 | 184 | 182               | 182 |
| 18                         | 182 | 182 | 182 | 182 | 182 | 181 | 181 | 181 | 179 | 181 | 182 | 184 | 182 | 181 | 181 | 181 | 182 | 184 | 184 | 183 | 183 | 181 | 181               | 182 |
| 19                         | 181 | 181 | 180 | 180 | 179 | 178 | 178 | 178 | 176 | 176 | 180 | 182 | 182 | 182 | 182 | 184 | 184 | 186 | 186 | 185 | 183 | 183 | 177               | 170 |
| 20                         | 174 | 177 | 179 | 179 | 177 | 177 | 179 | 181 | 183 | 183 | 183 | 186 | 190 | 198 | 200 | 200 | 197 | 189 | 179 | 161 | 169 | 172 | 175               | 182 |
| 21                         | 178 | 178 | 179 | 179 | 179 | 179 | 183 | 183 | 181 | 178 | 181 | 182 | 184 | 187 | 189 | 189 | 194 | 186 | 186 | 184 | 186 | 184 | 179               | 182 |
| 22                         | 180 | 183 | 184 | 184 | 186 | 187 | 189 | 190 | 190 | 190 | 192 | 193 | 194 | 201 | 201 | 199 | 197 | 190 | 174 | 180 | 184 | 180 | 181               | 188 |
| 23                         | 184 | 184 | 184 | 184 | 184 | 183 | 182 | 185 | 185 | 186 | 186 | 184 | 183 | 182 | 182 | 182 | 186 | 182 | 182 | 172 | 178 | 176 | 176               | 182 |
| 24                         | 174 | 174 | 178 | 179 | 179 | 178 | 177 | 179 | 180 | 181 | 182 | 182 | 182 | 184 | 185 | 186 | 187 | 180 | 184 | 176 | 172 | 176 | 178               | 180 |
| 25                         | 180 | 180 | 180 | 181 | 182 | 182 | 184 | 184 | 179 | 177 | 178 | 181 | 182 | 182 | 183 | 183 | 183 | 183 | 183 | 182 | 182 | 182 | 182               | 182 |
| 26                         | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 179 | 179 | 183 | 183 | 184 | 184 | 186 | 188 | 190 | 189 | 188 | 188 | 185 | 182 | 182               | 184 |
| 27                         | 183 | 184 | 184 | 184 | 184 | 183 | 183 | 182 | 181 | 179 | 182 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 182 | 182               | 183 |
| 28                         | 181 | 180 | 180 | 180 | 179 | 179 | 179 | 180 | 178 | 178 | 181 | 182 | 183 | 184 | 186 | 189 | 190 | 191 | 191 | 190 | 177 | 174 | 178               | 182 |
| 29                         | 182 | 182 | 181 | 180 | 180 | 179 | 179 | 179 | 177 | 177 | 181 | 187 | 196 | 202 | 204 | 199 | 199 | 195 | 184 | 184 | 186 | 184 | 181               | 187 |
| 30                         | 182 | 182 | 182 | 184 | 184 | 184 | 184 | 186 | 186 | 187 | 190 | 192 | 190 | 190 | 192 | 192 | 192 | 190 | 190 | 190 | 190 | 188 | 184               | 188 |
| 31                         | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 186 | 184 | 184 | 188 | 188 | 187 | 186 | 186 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 180               | 184 |
| Среднее<br>по всем<br>дням | 181 | 182 | 182 | 182 | 182 | 182 | 183 | 183 | 183 | 183 | 185 | 187 | 188 | 190 | 191 | 190 | 191 | 187 | 184 | 182 | 181 | 180 | 180               | 184 |

Условные обозначения:  $\Delta$  — погасла лампа;  $>$  или  $<$  — запись вышла за бумагу;  $\square$  — остановились часы;  $\wedge$  — иные причины отсутств. записи. Величины, взятые приближенно с магнитограммы — ( )

Обработал 8 кнз

Проверил 8 кнз