

Ведомство СВКНЦ
 Обсерватория Магадан
 Месяц май Год 1978

Широта 60°07 Долгота 151°01

Элемент Угол склонение
 $D = -12^{\circ}00.0$ $\delta D = 0.484''$ $D_0 = c.1.10.19 = -13^{\circ}18.6$
 $c.20.10.31 = -13^{\circ}18.5$

Время мировое	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	19	20	21	22	23	ср.		
1 D	68.0	69.4	68.8	70.2	75.0	75.0	77.0	73.1	71.3	68.9	66.3	68.4	68.2	67.0	60.2	63.7	67.8	68.4	66.7	64.8	59.7	80.9	103.2	73.0	70.6
2 D	74.5	83.0	79.1	79.6	80.2	76.6	65.3	68.2	60.7	63.3	= 75.7	69.9	65.3	68.4	78.1	65.7	68.3	69.4	71.1	69.3	68.4	69.8	67.8	68.4	71.1
3 D	68.7	74.5	74.0	73.1	75.2	73.8	70.7	68.6	56.6	61.9	60.5	65.2	74.7	71.3	68.2	72.6	63.9	68.9	64.8	72.6	72.9	80.5	82.0	87.0	70.9
4 D	77.8	77.6	78.4	78.6	68.9	68.4	78.6	68.9	63.9	56.1	71.3	71.3	68.9	70.6	78.6	68.9	66.8	70.4	65.8	67.7	68.4	68.2	66.3	67.2	70.3
5	69.9	71.8	74.0	73.9	74.2	73.8	72.8	71.1	69.6	69.2	68.9	68.5	68.4	68.3	68.1	67.8	66.8	66.1	64.8	63.6	63.1	65.8	64.4	64.6	68.7
6 Q	68.0	71.0	73.6	74.7	74.4	73.0	71.1	69.4	68.1	67.9	67.7	67.8	67.8	67.5	67.5	66.8	65.8	65.1	63.9	63.6	63.4	64.6	65.3	66.1	68.1
7	69.1	74.4	75.4	78.2	76.2	74.0	71.1	69.5	67.1	67.0	67.1	66.7	67.2	67.5	67.3	68.1	66.8	65.6	65.8	62.3	62.4	63.3	64.1	66.8	68.5
8	69.3	71.1	73.3	74.4	73.6	72.3	70.9	68.9	67.8	66.8	64.4	62.8	62.9	64.4	64.3	65.2	63.1	60.3	59.0	58.6	58.7	60.2	58.9	62.4	65.6
9 D	67.0	69.5	70.7	73.9	78.6	73.3	71.8	66.3	78.6	76.7	72.5	68.9	55.2	67.0	63.3	86.1	66.3	64.9	67.3	69.8	68.9	65.0	65.1	69.4	69.8
10	71.3	73.3	75.0	75.7	75.5	74.0	72.3	70.8	69.4	68.7	67.5	67.3	67.5	68.2	68.0	68.7	67.6	66.0	64.5	63.1	62.1	60.3	62.8	67.8	68.6
11	74.2	75.9	75.0	76.5	79.8	75.5	74.0	78.4	76.0	70.7	67.3	68.5	69.2	69.2	68.6	68.2	68.0	69.4	64.5	63.1	63.9	64.9	70.5	70.6	
12	73.8	75.7	76.0	76.6	77.9	77.1	75.2	72.2	64.4	64.4	67.5	67.8	66.8	65.7	65.4	66.5	65.3	62.9	61.9	64.1	63.6	63.1	63.4	68.4	68.6
13	71.8	76.7	75.2	74.4	75.0	73.7	71.3	69.4	67.3	66.7	66.3	66.8	67.2	67.3	65.0	65.8	64.8	63.8	62.6	61.5	61.0	60.2	64.4	67.0	67.7
14	70.2	75.0	76.2	75.8	75.5	74.5	72.3	69.2	68.3	66.9	66.8	68.0	67.8	66.3	66.3	65.1	63.2	58.8	57.0	55.5	58.1	57.6	60.6	64.6	66.7
15 Q	69.2	72.8	74.0	74.7	74.0	71.8	69.9	68.0	66.3	65.8	65.3	66.4	66.0	66.4	65.5	66.3	65.3	62.4	60.5	60.3	61.0	61.5	59.5	61.2	66.4
16	64.6	69.2	72.1	73.9	74.0	71.8	69.7	67.7	65.6	64.8	65.3	65.7	65.5	64.6	66.0	66.0	64.6	62.9	59.7	60.4	61.0	61.5	63.6	64.0	66.0
17	65.8	67.7	68.6	71.0	72.8	73.6	72.5	70.6	67.2	66.2	65.0	65.8	66.8	67.2	66.5	65.5	65.0	64.1	62.4	61.7	61.4	62.9	62.9	65.1	66.6
18 Q	67.0	68.2	71.1	72.8	74.0	72.6	71.5	69.4	67.8	66.5	65.5	66.0	66.0	66.0	66.0	65.3	62.4	60.1	60.2	60.5	60.8	61.5	61.9	63.9	66.1
19 Q	67.5	69.7	71.1	71.8	72.1	71.6	70.2	68.0	66.0	64.4	65.8	65.8	66.4	66.8	66.7	66.2	65.3	63.6	62.4	61.5	61.4	61.4	63.6	65.8	66.5
20	69.3	72.5	73.4	73.9	73.2	71.2	69.4	68.0	66.4	65.1	65.4	65.7	65.2	65.9	65.6	65.0	63.4	63.3	66.2	63.0	59.9	60.4	61.8	65.6	66.6
21	68.6	72.2	73.7	74.4	73.7	70.6	68.6	67.6	66.2	65.9	65.4	65.4	65.4	64.7	63.2	62.5	61.7	60.1	60.1	65.7	67.3	69.6	67.6	75.1	67.3
22	77.9	74.2	75.0	78.1	76.8	73.5	71.1	69.4	68.8	69.1	64.5	64.7	61.6	65.7	65.2	60.3	56.5	59.1	57.1	59.5	59.6	61.6	65.7	69.3	66.8
23	70.6	74.8	78.0	77.1	76.7	76.8	74.9	73.6	72.7	68.6	68.1	68.1	66.7	67.4	67.4	66.4	64.5	58.7	58.2	55.1	56.5	59.0	62.7	65.4	67.8
24	76.1	77.7	76.6	75.9	76.6	76.3	74.6	71.5	64.9	65.4	68.6	65.7	63.3	64.5	65.9	67.9	69.8	64.5	62.3	61.8	62.4	60.9	59.1	61.8	68.1
25	67.9	70.3	73.6	76.6	76.1	76.8	72.7	69.3	67.0	66.7	66.4	66.6	66.1	65.3	67.6	67.6	66.4	64.7	63.3	62.3	60.3	59.4	63.5	66.4	67.6
26	67.9	71.7	76.8	76.8	76.0	73.7	70.6	68.3	66.6	65.4	64.4	64.0	64.6	66.7	67.3	65.9	65.4	63.3	62.3	62.0	63.0	61.8	63.7	65.0	67.2
27 Q	67.6	70.8	71.9	73.5	74.6	74.1	72.7	69.3	68.0	66.3	64.9	66.2	66.5	66.9	66.6	65.7	64.5	62.8	61.0	59.8	60.8	60.4	62.2	66.7	66.8
28	69.6	70.3	71.7	73.0	73.0	72.5	70.6	69.1	67.7	66.5	64.8	66.4	68.6	66.5	65.2	64.2	61.8	61.1	59.6	59.5	59.2	59.3	60.6	64.2	66.0
29	66.9	69.3	70.6	71.2	71.5	70.4	69.3	68.3	67.5	66.7	65.5	66.1	66.6	65.4	63.2	62.9	61.6	60.2	58.2	57.5	58.7	60.8	59.5	61.4	65.0
30	65.2	70.7	76.6	78.3	81.9	81.5	79.0	72.7	72.2	70.6	67.9	67.9	68.3	67.7	65.6	64.7	64.7	62.6	61.1	61.8	60.4	62.5	65.7	68.3	69.1
31	70.8	75.0	77.5	74.3	73.8	73.6	72.2	69.3	67.2	66.9	65.5	64.9	65.2	66.4	66.2	65.3	64.0	63.0	61.8	61.1	61.8	62.4	64.0	65.7	67.4
ср.	69.9	72.8	74.1	74.9	75.2	73.8	72.1	69.8	67.7	66.6	66.7	66.7	66.3	66.9	66.7	66.7	64.9	63.8	62.5	62.4	62.3	63.6	65.2	67.0	67.8
ср.	67.9	70.5	72.3	73.5	73.8	72.6	71.1	68.8	67.2	66.2	65.8	66.4	66.5	66.7	66.5	66.1	64.7	62.8	61.6	61.1	61.5	61.9	62.5	64.7	66.8
ср.	71.2	74.8	74.2	75.1	75.6	73.4	72.7	69.0	66.2	65.4	69.3	68.7	66.5	68.9	69.7	71.4	66.6	68.4	67.1	68.8	67.7	72.9	76.9	73.0	70.5

Тюдельская З.Т. Сивцева М.И.

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Широта 60°07' Долгота 151°01'

Элемент Горизонтальная составляющая
H = 17900* $\delta H = 2.13^*/мм = H_0 = 17963$

Время мировое	1	2	3	4	5	6	7	8	9	10	11	
1 D	143	141	132	133	153	181	192	188	200	208	182	199
2 D	13	-6	87	143	132	157	212	251	240	190	184	116
3 D	128	121	136	144	162	184	173	194	193	177	173	131
4 D	41	37	49	94	174	188	212	265	215	167	155	103
5	127	126	136	143	158	165	170	170	171	172	168	170
6 Q	124	124	132	152	167	180	183	188	194	190	189	185
7	126	131	134	147	170	177	180	188	190	184	188	185
8	143	147	156	163	176	186	194	194	192	193	194	184
9 D	142	145	175	179	187	198	272	299	227	209	150	117
10	137	148	158	161	172	179	180	177	177	175	172	172
11	146	136	137	136	146	184	201	188	177	177	166	168
12	116	130	149	158	175	191	189	188	196	189	179	183
13	104	129	164	171	176	183	189	198	200	195	189	189
14	128	138	158	173	190	195	196	201	198	200	197	194
15 Q	131	141	153	168	184	196	202	208	209	212	208	199
16	145	149	156	166	199	190	202	204	203	202	198	196
17	159	159	164	176	196	200	192	187	198	201	198	202
18 Q	159	164	170	172	177	183	190	200	207	205	202	201
19 Q	150	159	170	179	190	198	201	202	198	204	196	205
20	157	168	184	197	210	212	218	212	204	208	204	202
21	164	166	180	205	198	205	214	206	202	206	206	214
22	136	150	152	157	162	175	184	200	198	200	188	194
23	137	133	148	173	189	192	202	198	191	191	201	193
24	145	158	174	182	189	201	201	209	206	192	180	197
25	121	147	143	148	185	185	193	209	200	197	197	193
26	150	140	145	160	179	185	186	199	208	210	200	206
27 Q	152	159	159	168	177	196	194	199	200	202	200	199
28	151	157	162	173	188	194	200	208	211	212	199	206
29	156	156	162	176	182	191	199	206	212	210	209	212
30	165	135	149	176	178	187	197	207	206	206	211	215
31	152	147	166	175	179	178	175	180	192	186	194	201
Среднее по всем дням	134	137	150	163	177	188	197	204	200	196	190	185
Среднее по споконн. дн.	143	149	157	168	179	191	194	199	202	203	199	198
Среднее по возмущ. дн.	93	88	116	139	162	182	212	239	215	190	169	133

13	14	15	16	17	18	19	20	21	22	23	ср.	
184	111	92	153	147	141	151	151	138	26	-95	16	136
126	93	80	131	141	118	115	129	133	122	112	121	131
104	107	114	117	95	104	139	125	100	73	58	65	130
98	111	107	139	136	144	146	142	135	131	132	131	136
171	171	173	168	167	173	170	167	148	132	146	133	158
181	177	177	177	174	176	175	175	171	156	152	143	168
185	188	185	180	187	192	197	180	174	159	146	147	172
179	184	182	192	196	191	196	195	191	182	172	157	181
126	111	95	82	131	146	148	148	141	140	141	134	160
174	176	182	177	176	174	174	170	166	162	143	123	167
179	183	176	174	174	172	162	151	145	133	114	115	160
205	184	174	179	174	175	167	165	158	164	146	124	169
181	187	178	179	178	178	178	179	180	168	148	136	173
193	191	190	185	180	171	163	162	171	151	145	132	175
199	205	202	206	202	200	200	196	194	180	163	147	188
195	200	205	207	199	195	192	193	186	181	175	166	187
198	194	196	192	192	194	193	190	176	162	156	158	185
205	199	195	195	199	181	181	174	167	161	150	146	183
202	207	205	202	198	197	197	195	186	176	165	157	189
202	206	206	208	216	218	209	191	189	183	174	168	198
221	219	220	220	224	219	211	194	166	107	132	101	192
198	194	190	174	156	148	147	118	134	133	123	134	164
183	188	190	184	190	173	172	164	139	153	160	132	174
177	178	176	181	183	177	171	165	159	162	147	130	177
202	211	197	197	197	190	183	174	171	170	148	160	180
194	195	195	187	182	177	171	171	174	172	164	153	179
199	197	194	190	185	183	183	180	175	169	159	149	182
206	195	193	190	184	182	178	178	177	173	160	156	185
211	216	200	198	197	194	201	209	197	194	192	199	195
209	202	200	185	182	176	177	171	153	157	156	160	182
218	212	213	209	202	196	194	194	194	188	176	165	187
184	180	177	179	179	176	175	171	164	152	141	137	172
197	197	195	194	192	187	187	184	179	168	158	148	182
128	107	98	124	130	131	140	139	129	98	70	93	139

Ведомство СВКНЦ
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 Месяц май Год 1978

Широта 60°07' Долгота 151°01'

Элемент Вертикальная составляющая
 $Z = 52500^r$
 $\delta z = \frac{c1-21=1.56}{c22-31=1.53} \text{ / мм}$ $Z_0 = 52576^r$

Время мировое	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	19	20	21	22	23	ср.		
1 D	107	111	112	118	128	143	170	171	160	159	174	159	137	32	65	105	120	131	137	112	79	48	-100	-6	107
2 D	131	159	196	172	164	169	247	325	315	237	193	132	129	126	59	110	124	113	122	128	130	127	131	129	161
3 D	125	124	133	132	147	158	164	174	204	212	175	154	108	89	73	28	47	41	53	66	59	41	69	71	110
4 D	88	137	177	194	259	298	294	290	243	199	182	167	149	110	73	124	124	107	108	121	128	129	133	132	165
5	122	119	121	118	125	131	131	130	132	132	132	132	131	132	132	132	132	133	132	127	123	121	117	111	127
6 Q	113	118	118	122	124	128	130	129	128	127	127	126	127	127	127	127	127	127	128	127	125	122	119	118	125
7	120	121	113	112	117	126	132	133	135	134	131	127	127	127	127	127	126	127	124	118	119	119	120	123	124
8	122	119	114	110	113	123	127	130	127	125	127	132	136	130	128	127	124	123	127	124	118	115	111	108	123
9 D	107	110	109	111	120	124	146	274	290	307	228	196	130	53	40	-11	65	90	96	123	133	136	139	138	136
10	138	143	138	135	136	138	141	137	134	132	133	134	133	132	130	127	126	127	127	129	123	113	112	117	131
11	119	118	121	132	146	171	185	177	175	164	152	146	141	138	134	130	127	114	106	115	123	124	121	119	137
12	117	121	126	127	134	142	144	146	150	146	138	135	130	118	122	127	126	118	106	95	88	92	99	101	123
13	104	107	111	111	121	126	126	127	127	129	131	132	132	130	128	128	128	127	124	120	116	116	121	118	123
14	110	112	114	117	122	127	132	133	133	133	135	132	130	130	128	127	126	124	123	121	118	117	116	109	124
15 Q	105	109	112	113	115	121	122	122	119	118	120	120	121	122	122	122	123	123	124	121	116	111	103	101	117
16	101	110	118	120	123	126	124	122	122	123	121	121	121	121	120	120	119	121	120	118	113	111	107	103	118
17	103	105	109	109	112	119	127	130	132	128	126	124	123	122	121	117	118	121	121	118	112	106	99	100	117
18 Q	101	100	101	105	110	111	117	121	124	124	124	122	121	121	121	120	113	111	113	113	112	108	105	106	114
19 Q	109	110	112	109	107	111	113	119	121	125	123	121	121	120	119	119	120	122	121	121	116	110	109	106	116
20	106	110	110	113	112	113	117	120	118	118	116	116	116	116	116	117	118	118	110	92	79	83	89	93	109
21	93	97	103	106	108	110	110	112	116	116	115	114	114	116	116	115	117	118	116	110	64	46	35	55	101
22	70	88	93	101	112	120	122	123	125	125	127	126	121	119	117	107	93	87	73	68	64	72	82	94	101
23	100	97	110	114	117	123	135	140	143	139	136	134	134	128	123	122	120	117	113	104	100	96	90	91	118
24	100	102	105	97	105	118	126	139	153	156	149	137	131	123	113	116	111	107	112	116	114	111	106	105	119
25	108	109	108	111	120	126	127	133	136	133	127	124	122	117	113	114	117	118	117	114	112	110	102	98	117
26	102	107	116	120	120	121	121	122	123	128	131	128	125	124	122	119	118	115	112	108	108	105	101	102	117
27 Q	103	109	112	113	113	119	125	130	127	122	120	121	120	120	119	120	120	119	118	118	114	111	110	111	117
28	107	107	110	108	108	108	110	113	117	123	126	127	125	123	123	122	120	114	107	100	100	102	104	102	113
29	105	105	104	102	105	111	114	117	118	117	117	118	119	112	112	115	116	114	111	108	108	105	99	91	110
30	88	88	99	114	118	124	137	157	160	146	134	127	124	123	120	120	120	117	115	113	108	104	101	100	119
31	103	108	117	114	114	123	126	131	131	125	123	121	120	118	117	116	116	116	116	115	111	104	100	104	116
Среднее по всем дням	107	112	117	119	125	133	140	149	150	145	138	132	126	117	112	113	116	115	114	112	108	104	98	102	121
Среднее по сплошн. дн.	106	109	111	112	114	118	121	124	124	123	123	122	122	122	122	122	121	120	121	120	117	112	109	108	118
Среднее по всему мес.	112	128	145	145	164	178	204	247	242	223	190	162	131	82	62	71	96	96	103	110	106	96	74	93	136

Тоддельская

Сивцева

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Широта 60°07' Долгота 151°01'

Элемент Толмая сила
 $T = 55600^{\circ}$
 $G.T = \frac{c1 \text{ по } 21^{\circ} / \text{мг } 1.89}{c22 \text{ по } 31^{\circ} / \text{мг } 1.86} \text{ То } c1 \text{ по } 31^{\circ} = 55620$

Время мировое	1	2	3	4	5	6	7	8	9	10	11	
1 D	13	16	13	19	35	61	89	89	81	85	91	81
2 D	-7	12	78	72	63	74	184	257	237	152	83	24
3 D	25	21	34	37	58	76	76	92	121	123	85	55
4 D	-39	5	47	77	162	204	212	233	166	112	88	56
5	20	17	22	23	33	42	43	43	45	46	45	45
6 Q	12	16	20	30	38	46	49	50	51	48	48	46
7	19	24	17	19	31	43	48	53	57	53	50	47
8	29	27	25	23	32	44	51	52	49	47	51	51
9 D	13	17	27	29	40	49	97	232	209	225	127	86
10	41	49	47	47	49	56	58	53	50	47	47	48
11	27	20	26	34	52	88	105	94	88	79	64	58
12	13	23	33	38	49	62	63	66	71	65	55	53
13	-3	9	25	27	37	45	47	52	52	52	51	52
14	10	16	26	32	44	50	54	58	57	58	59	55
15 Q	8	15	22	27	35	44	47	49	47	48	48	45
16	10	19	27	33	41	47	49	49	48	49	46	45
17	14	18	23	27	36	45	49	50	55	53	50	51
18 Q	13	13	15	20	27	30	37	46	50	50	50	48
19 Q	17	22	28	28	29	36	39	45	46	52	46	48
20	17	25	32	37	41	43	48	49	46	46	43	42
21	9	12	23	33	33	36	41	41	43	45	43	46
22	-23	0	4	13	27	37	41	51	50	51	49	51
23	5	1	18	31	39	45	61	64	64	60	61	57
24	7	15	22	17	26	44	54	68	80	74	67	61
25	8	17	15	20	40	46	51	61	61	56	52	47
26	13	13	22	31	38	41	41	48	51	57	55	56
27 Q	14	23	25	28	32	43	48	54	53	49	47	47
28	17	18	24	26	29	32	36	40	47	53	53	55
29	16	16	17	20	26	34	40	44	48	46	46	48
30	4	-6	9	32	37	45	59	81	84	70	62	57
31	12	16	30	31	34	40	44	50	53	45	47	48
Среднее по всем дням	11	16	26	31	42	53	63	75	73	68	58	52
Среднее по спокойн. дн.	13	18	22	27	32	40	44	49	49	49	48	47
Среднее по возмущ. дн.	1	14	40	47	72	93	132	181	163	139	95	60

	13	14	15	16	17	18	19	20	21	22	23	СР.	
	56	-61	-49	15	27	33	44	18	-12	-77	-263	-146	11
	27	13	-53	11	28	10	17	29	31	25	25	25	59
	2.	-17	-28	-71	-60	-64	-40	-32	-44	-74	-52	-47	12
	37	7	-31	27	27	13	14	27	30	29	33	32	65
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	45	44	45	45	44	44	45	44	40	33	29	24	39
	47	48	47	45	46	48	47	37	35	30	27	29	39
	53	49	47	50	47	47	51	48	41	34	28	19	41
	30	-44	-67	-122	-31	-2	6	29	35	40	43	40	46
	48	48	48	44	43	44	44	44	37	26	18	16	44
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	56	37	38	44	42	35	20	10	1	8	7	1	37
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	52	51	49	47	45	38	36	33	33	26	22	12	40
	46	48	48	49	49	49	49	45	40	30	17	9	38
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	47	45	45	40	41	44	44	40	30	18	11	12	37
	48	46	45	44	40	31	33	30	28	20	14	13	33
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	43	44	44	45	48	49	39	17	3	4	8	9	34
	48	48	49	48	51	50	47	34	-19	-58	-58	-51	25
	47	43	40	23	5	-4	-16	-32	-29	-22	-16	0	16
	54	50	46	42	43	34	29	19	7	8	5	-5	35
	47	40	31	36	31	26	29	30	27	24	14	7	37
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	46	45	43	41	41	40	39	37	32	27	22	20	37
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	46	36	30	32	35	32	32	28	22	14	5	6	37
	46	46	45	45	44	42	42	40	35	28	21	17	37
	30	-20	-46	-28	-2	-2	8	14	8	-11	-43	-19	39

Подпись: Тюгдальская З.П. Проверил: Сивисова М.И.