

Элемент Горизонтальная составляющая

H = 19300 + ... $\sigma_H = 5.45\% \text{ на } H_0 = 19362$

Месяц июль Год 1963

Часы																	
Дни	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	191	185	172	178	186	192	205	220	224	228	223	214	212	214	212	207	209
2	195	190	182	180	182	190	207	222	226	222	218	218	214	215	216	218	217
3	201	195	190	191	196	202	207	209	216	219	220	222	221	218	217	216	216
4	212	204	195	188	190	196	208	220	231	238	254	236	232	220	228	218	223
5	196	192	186	190	196	174	175	196	197	213	214	218	223	223	218	214	215
6	200	201	190	180	196	164	193	181	184	206	208	212	210	210	212	207	210
7	196	184	169	172	180	191	204	212	209	196	202	199	212	212	218	226	212
8	200	190	180	179	176	189	197	202	204	218	219	222	223	227	226	229	218
9	212	190	180	179	164	179	180	200	212	212	225	218	226	211	215	218	219
10	192	190	188	174	180	187	190	208	212	218	218	222	222	218	219	224	223
11	190	180	180	181	185	195	194	209	222	221	220	216	215	212	212	215	218
12	207	200	196	194	197	196	201	207	217	218	222	220	218	218	218	222	218
13	207	193	189	182	187	198	207	212	222	225	226	220	220	218	218	218	218
14	206	200	196	196	198	204	212	218	223	230	234	234	234	227	229	223	229
15	212	206	202	202	207	215	221	223	223	226	225	225	220	223	226	223	222
16	217	201	190	193	202	220	223	226	223	223	226	226	228	223	232	234	239
17	201	196	193	187	185	192	201	204	204	196	174	183	193	193	199	180	185
18	175	179	185	188	194	198	196	209	220	207	202	201	198	209	212	203	207
19	194	194	193	193	196	198	212	222	227	221	218	212	210	212	212	215	214
20	196	190	184	185	195	207	223	230	235	229	222	227	228	232	234	239	242
21	212	202	193	193	197	211	220	229	237	226	206	190	168	185	205	208	211
22	185	182	180	183	186	197	185	192	185	195	212	209	202	210	219	202	196
23	185	184	179	190	196	195	179	197	218	223	222	219	209	218	215	211	214
24	202	168	156	136	159	165	166	196	197	192	210	217	196	218	212	212	210
25	196	185	174	168	164	171	184	180	200	212	212	212	209	212	212	210	212
26	199	194	190	187	186	196	204	206	205	218	212	211	212	214	212	209	208
27	190	168	186	179	157	168	180	185	206	220	216	207	206	210	202	212	210
28	179	174	174	176	178	182	186	201	207	202	212	212	209	207	206	206	205
29	198	190	186	190	186	184	190	205	214	223	220	217	215	217	220	227	228
30	218	212	200	180	174	195	207	190	172	207	210	207	190	190	207	219	220
31	179	194	178	166	168	175	171	192	208	214	212	212	196	212	212	218	220
Среднее по всем дням	198	191	185	183	184	191	198	206	212	216	216	215	212	214	216	215	216
Среднее по сл. дням																	
Среднее по возмун. дн.																	
Сумма по всем дням																	

19	20	21	22	23	Средн. суточн.	Время макс.	Мак.	Мин.	Время мин.	Ампл.	Сумм.
210	212	212	212	209	200	206					
215	212	212	212	216	212	209					
218	218	218	222	222	218	212					
222	232	211	209	216	212	217					
211	211	209	210	207	204	204					
211	207	204	206	204	202	198					
208	207	208	206	207	209	202					
218	215	216	218	221	222	210					
212	210	212	208	208	198	204					
216	215	219	212	212	198	207					
212	212	215	212	209	208	206					
221	218	218	223	226	218	213					
218	217	219	218	218	214	212					
226	229	229	229	228	220	220					
223	222	223	232	237	231	221					
230	232	229	229	223	215	222					
200	201	202	201	195	187	194					
216	216	210	209	204	201	202					
218	216	212	212	212	206	210					
240	236	226	223	223	221	221					
198	203	197	200	196	190	203					
204	203	207	209	206	196	198					
212	212	212	212	210	190	204					
202	206	207	206	206	202	194					
212	212	212	212	218	206	200					
218	226	212	204	207	200	206					
209	207	207	205	200	190	197					
204	207	208	208	210	207	198					
229	219	223	223	212	207	210					
217	226	212	201	200	190	202					
218	206	207	212	210	193	200					
215	215	213	213	212	205	207					

$\alpha = -1^{\circ}00.0' +$

$\delta = 0.980/мл \quad \rho \delta = -2^{\circ}30.8'$

Месяц июль Год 1963

Час	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	63.0	63.8	65.9	69.3	70.7	73.6	74.7	75.1	74.2	73.6	71.2	69.8	68.8	69.9	69.8	70.9	70.2	69.6
2	63.9	64.9	66.3	67.7	70.6	74.6	75.6	75.6	74.6	72.8	71.6	70.8	70.7	70.6	70.2	70.0	69.8	69.8
3	63.8	64.3	65.6	68.2	70.7	73.9	74.9	74.6	74.1	73.6	71.6	70.6	69.8	70.2	70.7	70.8	70.7	70.6
4	64.8	65.7	66.7	67.9	71.2	74.2	74.6	73.2	72.5	75.6	74.2	73.0	70.6	70.8	70.6	69.6	69.6	68.7
5	65.8	61.1	63.0	66.8	71.7	75.6	78.1	79.9	74.5	72.8	71.8	71.1	71.2	71.6	70.8	70.7	69.7	68.8
6	61.8	63.9	66.3	70.7	72.2	75.7	76.8	76.4	74.2	73.6	71.7	69.6	68.8	68.7	69.7	68.8	69.6	69.6
7	62.8	62.8	65.3	69.0	71.6	73.6	74.1	74.1	74.5	73.6	70.7	69.6	69.9	69.6	66.6	67.7	68.8	69.9
8	62.9	63.0	66.3	69.6	72.3	74.5	75.1	75.6	73.6	74.0	72.6	70.7	69.2	69.6	69.3	67.8	68.9	68.2
9	63.0	63.8	64.9	66.8	69.7	73.2	75.6	75.2	75.6	73.7	71.7	70.2	66.8	69.4	69.8	68.8	69.6	68.7
10	62.4	62.8	63.8	65.8	69.6	72.2	72.6	72.0	71.9	72.0	71.6	70.6	69.6	68.7	69.6	69.2	69.2	68.7
11	63.8	64.3	66.3	68.7	71.2	73.2	73.6	73.6	73.0	71.6	70.1	69.6	69.6	69.6	69.9	69.9	68.8	
12	63.8	64.9	65.8	66.8	68.8	71.2	72.6	72.7	73.2	72.8	71.7	70.6	69.7	69.6	69.6	69.7	69.6	69.0
13	63.0	63.9	64.8	66.4	68.8	72.8	75.1	75.6	75.6	73.8	71.8	70.6	69.8	69.7	69.7	69.6	69.4	68.8
14	64.0	63.8	64.8	66.4	68.6	70.6	73.2	74.7	75.4	73.6	70.6	69.7	69.6	69.8	69.6	69.2	67.9	68.7
15	64.0	64.6	65.9	68.2	70.8	72.7	73.2	74.1	74.6	73.6	71.6	70.6	69.7	69.7	69.8	69.6	69.6	68.8
16	63.8	65.7	69.6	72.7	73.7	73.8	74.6	75.6	74.6	72.6	70.3	69.2	70.2	69.8	69.8	69.7	69.6	69.6
17	66.8	70.8	71.7	71.2	73.2	76.1	76.7	75.1	74.5	74.6	71.8	67.7	64.7	68.2	69.7	68.7	67.8	67.8
18	65.8	66.8	68.7	70.6	72.7	73.6	74.4	72.8	72.7	72.6	71.2	69.8	69.7	69.7	69.5	70.2	68.6	68.7
19	63.0	64.8	66.3	68.7	70.6	71.8	72.6	71.6	70.7	69.7	68.7	68.8	68.2	68.8	69.6	69.9	69.7	68.8
20	62.8	64.7	66.8	69.8	72.8	74.6	74.4	72.8	71.7	71.2	70.6	70.7	70.8	70.7	71.7	71.1	70.0	68.8
21	63.0	64.8	67.8	70.2	73.1	74.1	72.8	72.6	73.6	73.0	71.6	70.6	62.9	67.6	68.7	66.8	66.8	68.7
22	65.7	66.4	68.8	72.6	74.8	76.6	75.6	74.0	74.6	71.7	71.2	70.6	67.9	67.8	68.7	68.8	66.9	69.6
23	64.7	65.4	66.3	67.9	69.8	71.8	74.0	73.6	73.6	72.6	71.4	70.6	68.7	68.7	69.7	69.6	69.2	67.8
24	65.8	65.8	68.7	69.7	72.6	74.6	72.7	72.6	73.0	71.6	70.7	68.7	64.8	66.3	69.2	68.7	68.7	68.8
25	62.8	63.8	65.7	69.6	71.6	71.7	73.2	71.7	71.3	72.2	71.7	70.6	70.6	69.2	68.7	70.6	68.7	67.9
26	64.8	65.0	65.8	68.7	70.0	72.6	72.8	74.6	74.4	73.6	70.7	67.3	68.7	67.8	68.7	69.8	69.7	69.2
27	65.6	68.9	69.2	67.7	68.7	71.7	72.6	72.3	73.6	72.1	70.6	68.8	68.8	67.4	67.7	68.0	68.8	68.8
28	65.0	66.8	68.8	68.7	70.6	73.2	74.2	74.0	73.6	71.7	69.7	68.8	68.8	68.8	68.9	68.8	69.6	69.6
29	63.8	63.7	64.8	66.8	69.6	72.1	73.6	74.7	74.5	72.8	71.4	70.2	69.7	68.8	69.6	69.6	69.6	68.8
30	67.8	67.4	66.4	67.6	72.2	74.6	75.1	76.0	76.6	74.1	72.7	70.2	67.8	66.7	69.2	70.2	69.8	68.5
31	63.8	66.8	66.3	67.8	69.8	73.6	74.7	75.5	75.6	74.5	70.7	69.7	67.8	66.9	70.6	69.9	69.7	68.7
Среднее по всем дням	63.9	65.0	66.6	68.7	71.1	73.5	74.4	74.4	74.0	73.0	71.3	70.0	68.9	69.0	69.5	69.4	69.2	68.9
Среднее по сл. дням																		
Среднее по волнам																		
Сумма по всем дням																		
Сумма по сл. дням																		
Сумма по волнам																		

19	20	21	22	23	Средн. суточн.	Время макс.	Мак.	Мин.	Время мин.	Ампл.	Сумма
63.6	63.4	68.7	67.3	66.9	65.4	69.7					
69.5	69.2	68.8	67.8	65.8	64.7	69.8					
69.7	69.2	68.8	68.3	67.2	65.8	69.9					
65.8	68.8	65.4	62.8	63.8	61.9	69.7					
68.2	67.7	66.7	64.9	66.8	63.8	69.4					
69.8	69.5	67.7	66.3	64.8	62.9	69.5					
69.6	67.9	67.2	66.3	65.8	63.6	68.9					
68.0	66.9	66.8	66.9	68.6	65.7	69.4					
68.4	67.9	67.8	67.0	65.7	63.0	69.0					
68.7	68.4	68.4	67.7	65.8	63.8	68.5					
68.8	68.7	68.7	67.0	65.8	63.9	69.3					
68.7	68.7	68.3	67.0	65.8	64.7	69.0					
68.7	68.4	68.3	67.7	66.8	65.8	69.4					
67.8	67.7	67.4	66.4	64.9	63.8	68.7					
68.7	68.3	67.8	66.2	63.8	63.4	69.1					
68.7	68.7	67.9	66.8	65.8	65.3	69.9					
68.7	67.9	67.0	65.8	64.0	65.7	69.8					
67.8	67.8	66.8	65.8	64.7	63.8	69.4					
68.7	68.8	67.8	65.7	63.8	62.4	68.3					
61.9	67.3	67.8	67.0	64.9	63.4	68.3					
68.7	70.7	69.6	67.7	65.8	64.8	69.0					
67.3	67.8	68.3	67.0	64.8	63.8	69.6					
67.9	67.8	68.6	65.8	66.6	68.7	69.2					
68.7	67.8	67.8	68.7	65.8	63.8	69.0					
68.1	68.4	68.7	69.2	68.7	65.9	69.2					
68.8	67.8	66.0	65.8	64.8	64.8	68.8					
68.8	68.7	68.4	68.3	67.3	65.8	69.1					
69.6	68.8	68.7	68.4	66.8	64.8	69.4					
68.3	67.9	68.7	67.8	64.8	65.7	69.0					
67.3	67.8	71.7	65.8	63.0	61.8	69.6					
67.8	66.9	67.8	65.8	63.0	63.0	69.0					
68.5	68.3	68.0	66.8	65.5	64.4	69.3					

Обработка Колмина

Проверил Полякова

Месяц июль Год 1963

Элемент Горизонтальная составляющая № 9013-11
 Н 19300' $\epsilon_H = 5.45\%$ Н 19362'

Часы																	
Дни	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	191	185	172	178	186	192	205	220	224	228	225	214	212	214	212	207	209
2	195	190	182	180	182	190	207	222	226	222	218	218	214	215	216	218	217
3	201	195	190	191	196	202	207	209	216	219	220	222	221	218	217	216	215
4	212	204	195	188	190	196	208	220	231	238	254	236	232	220	228	218	223
5	196	192	186	190	196	174	175	196	197	213	214	218	223	223	218	214	215
6	200	201	190	180	176	164	193	181	184	206	208	212	210	210	212	207	210
7	196	184	169	172	180	191	204	212	209	196	202	199	212	212	218	226	212
8	200	190	180	179	176	189	197	202	204	218	219	222	223	227	226	229	218
9	212	190	180	179	164	179	180	200	212	212	225	218	226	211	215	218	219
10	192	190	188	174	180	187	190	208	212	218	218	222	222	218	219	224	223
11	190	180	180	181	185	195	194	209	222	221	220	216	215	212	212	215	218
12	207	200	196	194	197	196	201	207	217	218	222	220	218	218	218	222	218
13	207	193	189	182	187	198	207	212	222	225	226	220	220	218	218	218	218
14	206	200	196	196	198	204	212	218	223	230	234	234	234	227	229	223	209
15	212	206	202	202	207	215	221	223	223	226	225	225	220	223	226	223	226
16	217	201	190	193	202	220	223	226	223	223	226	226	228	223	232	234	239
17	201	196	193	187	185	192	201	204	204	196	174	183	193	193	199	180	185
18	175	189	185	188	194	198	196	209	220	207	202	201	198	209	212	203	207
19	194	194	193	193	196	198	212	222	227	221	218	212	210	212	212	215	214
20	196	190	184	185	195	207	223	230	235	229	222	227	228	232	234	239	242
21	212	202	193	193	197	211	220	229	227	226	226	190	168	185	205	208	211
22	185	182	180	183	186	197	185	192	185	195	212	209	202	210	219	202	196
23	185	184	179	190	196	195	179	197	218	223	222	219	209	218	215	211	214
24	202	168	156	136	159	165	166	196	197	192	210	217	196	218	212	212	210
25	196	185	174	168	164	171	184	180	200	212	212	212	209	212	212	210	212
26	199	194	190	187	186	196	204	206	205	218	212	211	212	217	212	209	208
27	190	168	186	179	157	168	180	185	206	220	216	207	206	210	202	212	212
28	179	174	174	176	178	182	186	201	207	202	212	212	209	207	206	206	205
29	198	190	186	190	186	184	190	205	214	223	220	214	215	214	220	227	228
30	218	212	200	180	174	195	207	190	172	207	210	207	190	190	207	219	220
31	179	194	178	166	168	175	171	192	208	214	212	212	196	212	212	218	220
Среднее по всем дням	198	191	185	183	184	191	198	206	212	216	216	215	212	214	216	215	216
Среднее по сл. дням																	
Среднее по восточн. сл.																	
Сумма по всем дням																	
Сумма по сл. дням																	
Сумма по восточн. сл.																	

19	20	21	22	23	Средн. суточн.	Время макс.	Мак.	Мин.	Время мин.	Ампл.	Сум.
210	212	212	212	209	200	206					
215	212	212	212	216	212	209					
218	218	218	222	222	218	212					
222	232	211	209	216	212	217					
211	211	209	210	207	204	204					
211	207	204	206	204	202	198					
208	207	208	206	207	209	202					
218	215	216	218	221	222	210					
212	210	212	208	208	198	204					
216	215	219	212	212	198	207					
212	212	215	212	209	208	206					
221	218	218	223	226	218	213					
218	217	219	218	218	214	212					
226	229	229	229	228	220	220					
223	222	223	232	237	231	221					
230	232	229	229	223	215	222					
200	207	202	204	195	187	194					
216	216	210	209	204	201	202					
218	216	212	212	212	206	210					
240	236	226	223	223	221	221					
198	203	197	200	196	190	203					
204	203	207	209	206	196	198					
212	212	212	212	210	190	204					
202	206	207	206	206	202	194					
212	212	212	212	218	206	200					
218	226	212	204	207	200	206					
209	207	207	205	200	190	197					
204	207	208	208	210	207	198					
229	219	223	223	212	207	210					
214	226	212	207	200	190	202					
218	206	207	212	210	193	200					
215	215	215	213	212	205	207					

Обработал Колыша Проверил Полкова

Месяц июль Год 1963

Элемент Вертикальная составляющая № 9013-10
 $Z = 51300^*$ + $E_z = 3.47/ми Z_0 = 51410^*$

Часы																	
Дни	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	28	28	24	24	25	25	27	28	32	34	36	39	39	36	36	36	35
2	30	26	23	22	24	23	26	29	34	35	33	36	34	36	36	36	36
3	35	32	22	22	24	21	24	27	34	36	38	36	34	35	35	36	36
4	35	34	27	26	28	29	25	25	29	32	35	34	38	38	39	40	39
5	27	25	16	21	20	17	25	35	38	41	42	41	36	36	36	37	37
6	30	28	23	16	14	24	30	28	39	38	40	40	40	40	39	41	40
7	38	32	28	26	24	26	29	32	35	42	48	48	45	42	42	38	37
8	31	27	25	27	23	18	24	27	34	39	38	38	41	41	39	38	36
9	30	28	24	22	23	27	29	30	35	39	42	44	44	40	40	38	37
10	36	30	28	30	32	33	37	40	40	37	37	39	39	37	38	37	34
11	31	21	17	14	20	21	26	30	30	34	37	38	39	38	37	36	36
12	39	37	34	30	30	30	30	32	34	36	42	39	38	37	35	35	36
13	34	31	26	26	26	26	31	35	36	36	35	39	36	34	33	34	34
14	32	30	23	23	24	27	28	28	30	32	32	35	32	31	32	32	32
15	32	26	21	20	18	16	18	21	22	26	32	34	33	32	32	32	32
16	29	26	25	19	15	15	15	22	26	32	32	30	29	29	32	32	32
17	30	29	23	23	23	28	32	30	37	48	52	50	48	48	46	46	44
18	29	28	28	22	22	22	27	34	36	37	35	38	37	38	38	41	38
19	30	27	30	28	28	34	30	32	34	32	30	32	34	34	34	34	34
20	29	27	28	26	26	33	33	32	29	30	32	32	30	30	31	32	32
21	34	27	21	17	16	24	26	28	30	35	42	50	60	52	50	44	38
22	31	26	18	21	30	33	36	46	44	42	42	43	44	42	38	38	39
23	32	30	28	24	21	21	22	28	33	36	37	38	36	36	36	38	38
24	27	22	23	26	30	38	38	40	40	40	40	42	44	41	40	38	40
25	36	33	29	26	28	31	36	36	36	34	35	34	34	36	36	37	37
26	28	29	28	24	19	16	18	28	36	42	42	42	40	40	40	36	36
27	31	31	31	29	25	29	34	38	38	39	36	39	39	40	40	40	38
28	33	30	25	22	20	18	24	30	32	36	40	39	38	38	37	36	36
29	36	33	28	24	23	22	22	26	33	39	43	40	40	36	36	35	33
30	36	30	26	20	20	24	30	30	39	44	43	43	44	46	45	43	40
31	33	32	23	17	19	24	30	39	44	44	45	43	40	40	38	37	37
Среднее по всем дням	32	29	25	23	23	25	28	31	34	37	38	39	39	38	38	37	37
Среднее по ср. дням																	
Среднее по ср. ночам																	
Сумма по всем дням																	
Сумма по ср. дням																	
Сумма по ср. ночам																	

19	20	21	22	23	Средн. суточн.	Время макс.	Мак.	Мин.	Время мин.	Ампл.	Сумм.
36	36	36	37	38	36	33					
36	35	37	40	38	38	32					
36	37	38	38	38	38	33					
38	35	28	25	26	26	32					
37	38	36	37	36	31	33					
38	36	39	40	40	39	34					
38	38	38	38	38	36	36					
36	36	36	37	36	36	33					
37	39	37	37	40	40	35					
38	38	36	36	34	34	36					
35	36	36	36	36	36	31					
36	36	36	37	36	36	35					
34	31	33	33	32	33	33					
32	32	32	32	35	34	30					
32	32	33	35	34	32	28					
32	32	32	35	36	32	28					
43	43	43	43	39	36	39					
37	37	37	40	40	34	34					
33	33	33	36	36	33	32					
33	32	34	37	37	37	31					
41	40	39	39	38	36	36					
35	38	39	38	37	35	36					
36	36	34	35	32	29	32					
39	38	39	40	41	41	37					
35	35	35	36	35	30	34					
34	34	31	34	34	31	32					
38	36	36	39	37	37	36					
35	36	36	36	38	38	33					
35	34	34	33	34	34	33					
38	33	28	30	33	33	35					
36	34	35	35	36	36	35					
36	36	35	36	36	35	33					

Обработал Колкина Проверил Палкова