

Sonnengangberechnung

Datum/Uhrzeit (MM-TT-hh:mm):

Höhe über Boden (m):

Elemente der Ausgabe:

- Dieses Abfrageformular
- Sonnengang mit Horizontdarstellung (Graphik)
- Sonnenstunden pro Tag im Monatsmittel (Graphik)
- Horizontdarstellung auf Umgebungskarte (Graphik)
- Ergebnisse in Tabellenform

Sonnengang mit Horizontdarstellung

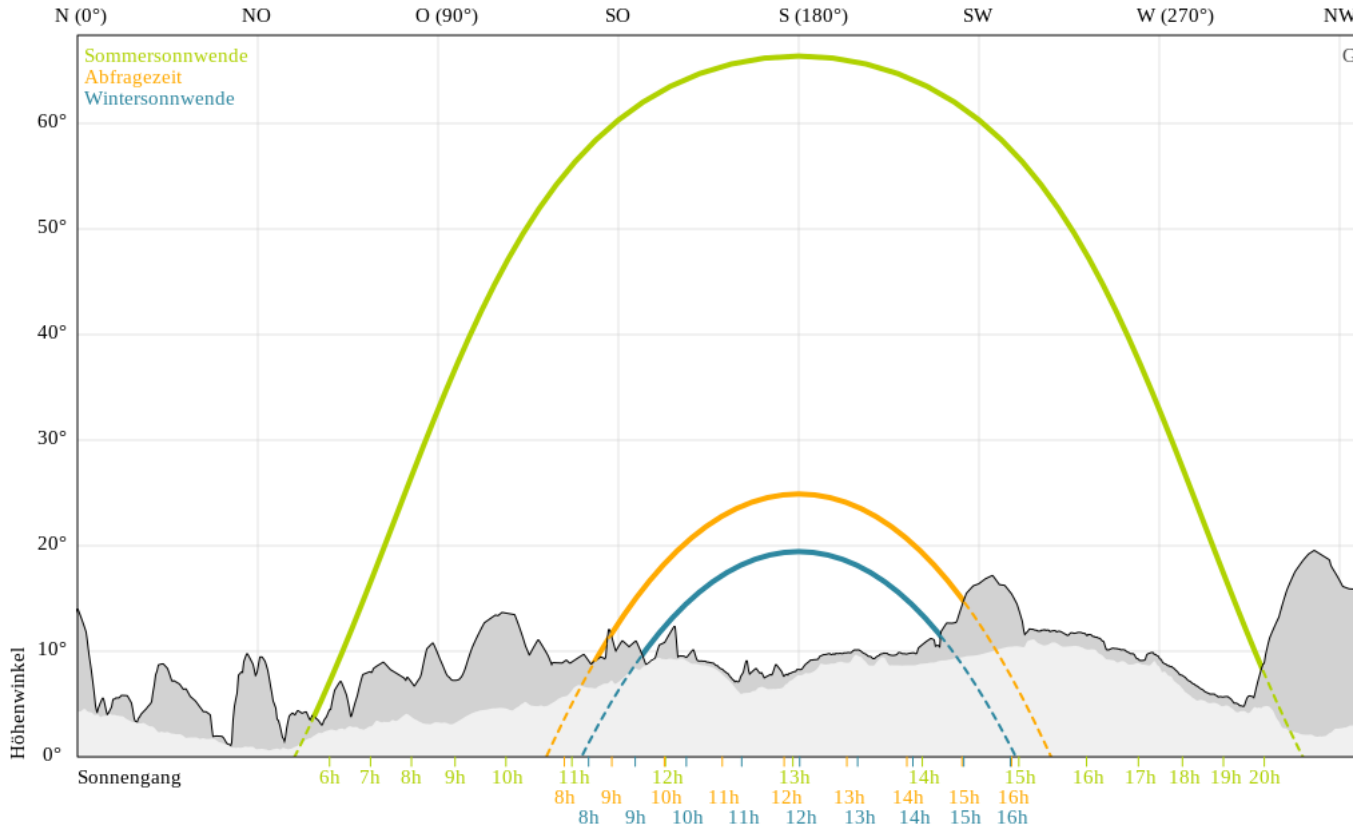
Abfragekoordinaten (EPSG:32633): 479322.08, 5221537.13

Abfragehöhe (m): 698.4 (+2.0)

Abfragezeit: 29.1.2022, 6:20 Uhr (Sonnenaufgang 8:38 Uhr, Sonnenuntergang 15:02 Uhr)

Datengrundlage: Laserscanning Höhenmodell 2021 - geoland.at

Befliegungsjahr im Abfragepunkt: 2010



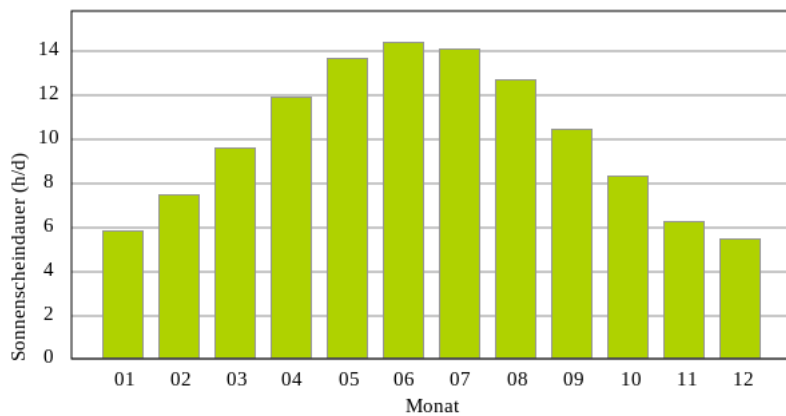
Sonnenstunden pro Tag im Monatsmittel

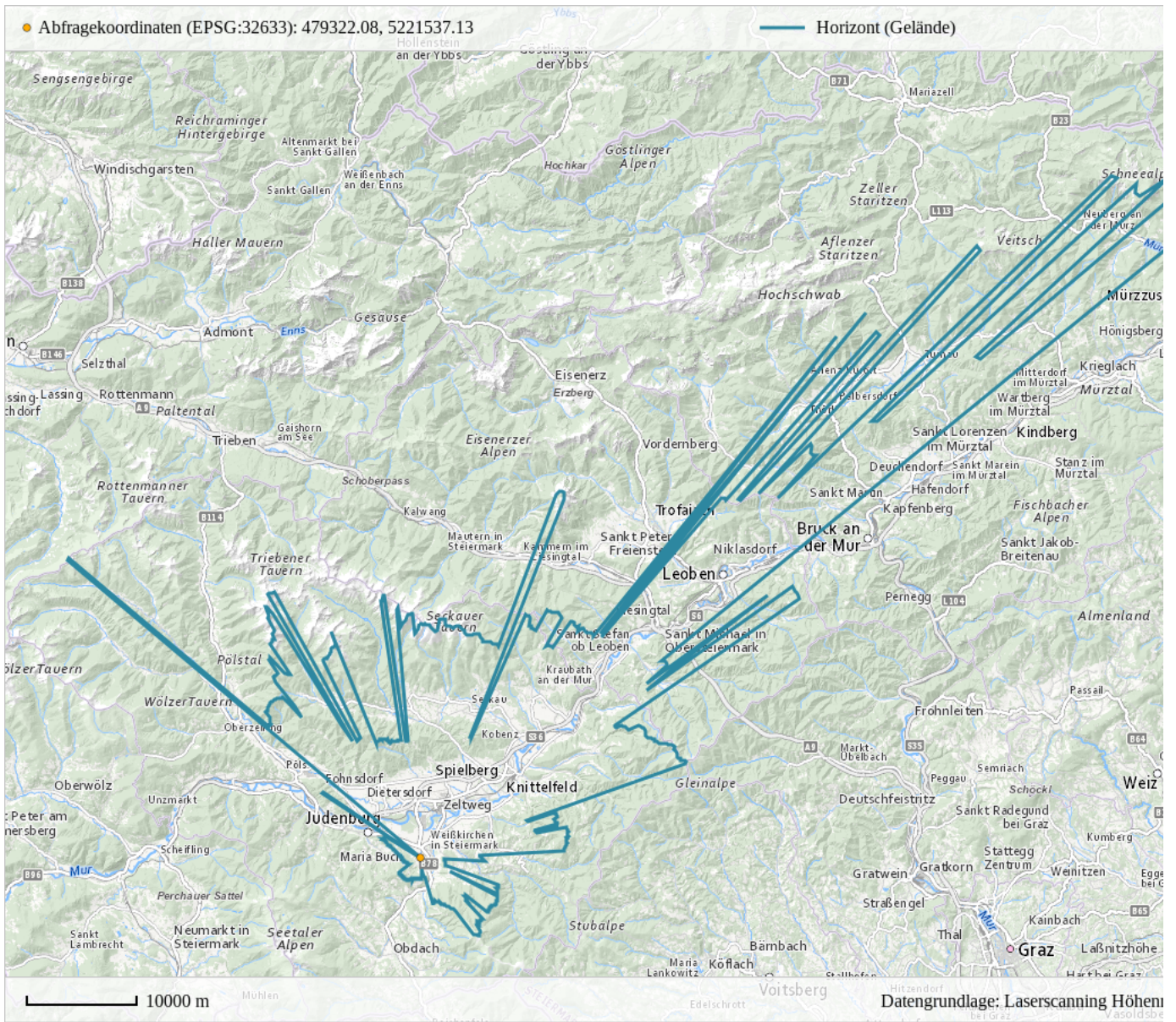
Abfragekoordinaten (EPSG:32633): 479322.08, 5221537.13

Abfragehöhe (m): 698.4 (+2.0)

Datengrundlage: Laserscanning Höhenmodell 2021 - geoland.at

Befliegungsjahr im Abfragepunkt: 2010





[Tabelle im CSV-Format abspeichern](#)

[Tabelle im JSON-Format abspeichern](#)

Azimuth (°)	Höhenwinkel (°)		Horizontale Entfernung (m)		Höhenwinkel (°) bzw. Uhrzeit Sonnengang			
	Gelände	Oberfläche	Gelände	Oberfläche	29.1.2022	MEZ	MESZ	Sommersonnwende
0	4.3	15.1	21467.2	36.3				
1	4.4	13.6	21406.5	36.2				
2	4.5	12.5	21348.9	36.2				
3	4.3	10.8	21172.6	36.3				
4	4.2	8.1	20884.8	35.3				
5	4	4.8	21940.3	35.3				
6	3.9	5.2	21949.1	49.4				
7	3.9	5.5	21393.5	49.5				
8	4.1	4.2	21275.7	49.6				
9	4	5.4	21342.8	47.7				
10	4	5.5	21460.1	49.8				
11	3.9	5.8	21269.5	49				
12	3.8	5.7	20907.1	49.1				
13	3.6	5.7	20916	49.2				
14	3.4	5.1	21061.3	49.4				
15	3.3	3.3	21200.2	21200.2				
16	3.2	4	20636.1	44.8				
17	3.2	4.4	20594.2	45				

18	3	4.8	20693.2	44.2	
19	2.9	6.1	20740.8	60.2	
20	2.7	8.1	20718.8	59.5	
21	2.4	8.7	35950.3	59.9	
22	2.3	8.7	35879.2	59	
23	2.4	8.3	11951.6	59.4	
24	2.2	7.2	24247.5	59.7	
25	2.2	7.1	24166.1	45	
26	2.2	6.8	23556	45.3	
27	2	6.4	23355.3	44.8	
28	1.8	6.1	25497.2	45	
29	1.8	5.6	25606.9	45.4	
30	1.8	5.2	25778.9	45.7	
31	1.8	4.7	22699.6	46.2	
32	1.8	4.2	22760.3	45.9	
33	1.7	4.1	25748.3	46	
34	1.7	2.8	25591.3	46	
35	1.7	1.9	25704.7	71.3	
36	1.4	1.9	25789.3	71.9	
37	1.3	1.7	25665.5	71.6	
38	1.1	1.2	25898	25898	
39	0.9	3.5	61059.1	70.8	
40	0.9	6	43167.5	71.1	
41	0.9	8	43074.7	70.9	
42	1	9.3	75610.4	64.8	
43	1	9.7	52093.5	64.4	
44	1	9	52004.8	64.7	
45	0.8	8	51715.2	65.7	
46	0.8	9.4	57888.1	65	
47	0.7	9.2	89879.1	64.7	
48	0.7	8.2	92533.1	65.8	
49	0.7	6	106427	64.7	
50	0.8	4.6	94343.4	63.7	
51	0.8	3	28730.1	52.2	
52	0.9	1.7	28745.9	54.7	
53	0.8	3.8	29102.7	54.1	-0.9
54	0.9	4.1	42203.6	53.5	-0.2
55	1.1	4.3	42138.9	41.5	0.6
56	1.4	4.2	21529.6	41.8	1.4
57	1.6	4.2	22124.7	41.8	2.2
58	1.8	3.9	22377.3	41.6	3
59	2	3.8	23552.2	45.7	3.8
60	2.2	3.6	23704.3	45.4	4.6
61	2.3	3.2	23695	45.6	5.4
62	2.4	3.6	23659.7	37.3	6.3
63	2.6	4.4	24050.1	49.5	7.2
64	2.6	5.7	24047.6	43.4	8
65	2.6	6.7	25013.6	43	8.9
66	2.7	7.1	25287.3	42.8	9.8
67	2.7	6.5	25416.5	42.6	10.7
68	2.9	5.2	25384	42.3	11.7
69	2.9	4.5	25337.5	37.4	12.6
70	2.8	5.8	25870.3	37.2	13.5
71	2.6	7.3	25854	36.9	14.5
72	2.7	7.8	13058.9	36.7	15.4
73	2.9	8	13116.5	36.5	16.4
74	3.2	8.3	12789.5	32.1	17.4
75	3.4	8.6	12813.1	33	18.3
76	3.3	8.8	12941	32.8	19.3
77	3.3	8.9	10694.8	32.8	20.3

78	3.3	8.5	13725.2	32.6				21.3
79	3.5	8.1	13728.7	32.5				22.3
80	3.5	7.9	13780.8	32.4				23.2
81	3.8	7.7	13738.1	32.3				24.2
82	4.1	7.4	13576.3	32.1				25.2
83	4.1	7.5	13606	22				26.2
84	3.8	7	13478.6	21.9				27.1
85	3.5	7.1	13541.8	29.9				28.1
86	3.3	7.9	13363.8	34.9				29.1
87	3.2	9.7	13282.6	34.8				30
88	3.1	10.4	5329.1	34.8				31
89	3.2	10.7	5562.2	34.7				31.9
90	3.3	10.1	5605.7	34.7				32.9
91	3.2	9.2	5635.1	34.7				33.8
92	3.3	8.3	5785.2	34.7				34.7
93	3.2	7.6	5861.2	34.7				35.6
94	3.2	7.2	2220.4	34.8				36.5
95	3.4	7.2	2233	34.8				37.4
96	3.6	7.5	2247.3	34.9				38.2
97	3.8	8.4	2256.4	19.8				39.1
98	4	9.6	2272.1	19.9				39.9
99	4.2	10.6	2296.8	19.9				40.7
100	4.3	11.4	2318.2	20				41.5
101	4.4	12.2	2320.1	20				42.3
102	4.5	12.7	2315.6	20.1				43.1
103	4.5	13	2311.6	20.2				43.9
104	4.6	13.3	2319.5	20.3				44.6
105	4.6	13.3	2333.4	20.3				45.3
106	4.6	13.6	2339.3	18.3				46.1
107	4.6	13.6	2364.7	18.4				46.8
108	4.5	13.5	2409.7	18.5				47.4
109	4.5	13.4	7622.1	18.6				48.1
110	4.7	13.1	7632.1	18.7				48.7
111	5	12	7644.1	18.8				49.4
112	5.2	10.9	7619.4	18.9				50
113	5.1	9.9	7613	19.1				50.6
114	4.8	10.3	7735.8	23.6				51.2
115	4.8	11	7821.9	23.8				51.8
116	4.9	10.8	2981.5	23.9	-0.8	7:30	8:30	52.3
117	4.8	10.2	7997.9	24.1	0	7:35	8:35	52.8
118	5	9.5	8078.8	24.2	0.8	7:41	8:41	53.4
119	5.2	8.8	8081.6	18.9	1.6	7:46	8:46	53.9
120	5.5	8.8	8086.6	19	2.4	7:52	8:52	54.4
121	5.7	8.8	8175.9	19.2	3.2	7:57	8:57	54.9
122	5.8	9.1	8118.8	20.7	4	8:02	9:02	55.3
123	6.1	9	7997.4	20.8	4.7	8:07	9:07	55.8
124	6.6	9.1	7903.8	24.8	5.5	8:13	9:13	56.2
125	6.8	9.3	7878.9	25.1	6.2	8:18	9:18	56.6
126	6.8	9.5	7895.7	25.3	6.9	8:23	9:23	57.1
127	6.6	9.6	7890.5	25.4	7.6	8:28	9:28	57.5
128	6.6	9.1	7912.3	25.8	8.3	8:33	9:33	57.8
129	6.5	9	7936.3	22.5	8.9	8:38	9:38	58.2
130	6.7	9.2	5420.9	22.9	9.6	8:43	9:43	58.6
131	6.9	9.4	5455.4	23.1	10.2	8:48	9:48	58.9
132	6.9	9.4	5576	38.1	10.9	8:53	9:53	59.3
133	7.2	12	5931.3	38.6	11.5	8:58	9:58	59.6
134	7.3	11.1	5930.3	38.1	12.1	9:03	10:03	59.9
135	7.1	10.3	8014.6	23.3	12.6	9:07	10:07	60.2
136	7.4	10.9	8024.7	23.7	13.2	9:12	10:12	60.5
137	7.8	10.8	8015.8	23.5	13.8	9:17	10:17	60.8

138	8.2	10.4	7839.8	23.1	14.3	9:21	10:21	61.1
139	8.4	10.8	8036.5	23.6	14.8	9:26	10:26	61.4
140	8.4	10.9	8091.3	23.7	15.3	9:31	10:31	61.7
141	8.5	10	8751.5	24.2	15.8	9:35	10:35	61.9
142	8.7	9.1	8787.5	24.4	16.3	9:40	10:40	62.1
143	8.9	8.9	8976	8976	16.8	9:44	10:44	62.4
144	9.2	9.2	8698.9	8698.9	17.2	9:49	10:49	62.6
145	9.4	10.1	8634.4	21.9	17.6	9:53	10:53	62.8
146	9.4	10.7	8616.9	22.3	18.1	9:57	10:57	63
147	9.3	11	5862.7	22.6	18.5	10:02	11:02	63.2
148	9.3	11.7	5517.3	22.4	18.9	10:06	11:06	63.4
149	9.3	12.3	5521.7	22.1	19.2	10:10	11:10	63.6
150	9.3	10.9	5215.8	22.3	19.6	10:15	11:15	63.8
151	9.3	9.5	5164.9	5174.7	20	10:19	11:19	64
152	9.3	9.5	5142.5	5081.2	20.3	10:23	11:23	64.1
153	9	9.8	4957.3	28	20.6	10:27	11:27	64.3
154	8.8	10.1	4719.1	27.8	20.9	10:31	11:31	64.5
155	8.8	9.2	4712.4	27.7	21.3	10:36	11:36	64.6
156	8.7	9	4659.3	4505.8	21.5	10:40	11:40	64.7
157	8.7	9	4453.4	4407.4	21.8	10:44	11:44	64.9
158	8.6	8.9	4402.9	4517.1	22.1	10:48	11:48	65
159	8.5	8.8	4387.2	4306.4	22.3	10:52	11:52	65.1
160	8.3	8.6	4372.8	4306	22.6	10:56	11:56	65.2
161	8	8.3	4326.3	4326.3	22.8	11:00	12:00	65.3
162	7.7	8	4267.2	4248	23	11:04	12:04	65.4
163	7.3	7.8	4242.6	4337.4	23.2	11:08	12:08	65.5
164	6.9	7.3	4328.3	4247.7	23.4	11:12	12:12	65.6
165	6.5	7.1	4320.4	44.6	23.6	11:16	12:16	65.7
166	6	7.8	4485	33.9	23.7	11:20	12:20	65.8
167	6.1	9	1805.1	40.9	23.9	11:23	12:23	65.8
168	6.1	8.2	1831.6	40.9	24	11:27	12:27	65.9
169	6.2	8.2	1848.1	33.5	24.2	11:31	12:31	66
170	6.5	8.3	1905.9	33.4	24.3	11:35	12:35	66
171	6.6	7.9	1869.2	37.4	24.4	11:39	12:39	66.1
172	6.6	7.5	1853.2	34.2	24.5	11:43	12:43	66.1
173	6.4	7.7	1931.5	34.1	24.6	11:47	12:47	66.2
174	6.4	8.3	1914.5	41.1	24.7	11:50	12:50	66.2
175	6.5	8.7	1104.2	41	24.7	11:54	12:54	66.2
176	6.5	8.2	1921.2	41	24.8	11:58	12:58	66.3
177	6.9	7.8	2005	1964.2	24.8	12:02	13:02	66.3
178	7.2	7.8	1970.9	1755.2	24.8	12:06	13:06	66.3
179	7.5	8	1968.6	2000.9	24.9	12:10	13:10	66.3
180	7.7	8.2	1949.8	1714.8	24.9	12:13	13:13	66.3
181	7.8	8.3	1957.8	1695.8	24.9	12:17	13:17	66.3
182	7.9	8.8	1957	1707.2	24.8	12:21	13:21	66.3
183	7.9	9.1	1972.4	1740.1	24.8	12:25	13:25	66.3
184	8.1	9.1	1971	1781.5	24.8	12:29	13:29	66.3
185	8.5	9.2	1975.3	78	24.7	12:32	13:32	66.2
186	8.8	9.6	1969.5	1996.3	24.7	12:36	13:36	66.2
187	8.8	9.6	1952.2	1980.7	24.6	12:40	13:40	66.2
188	8.8	9.7	1957.6	1972.8	24.5	12:44	13:44	66.1
189	8.8	9.7	1961.3	1959.2	24.4	12:48	13:48	66.1
190	9	9.7	1978.7	1963.5	24.3	12:52	13:52	66
191	9	9.7	1979.7	1950.2	24.2	12:56	13:56	66
192	8.9	9.8	1974.6	1932	24	12:59	13:59	65.9
193	9	9.8	2019.1	1975.7	23.9	13:03	14:03	65.8
194	9.6	10.1	2018.9	2000.4	23.7	13:07	14:07	65.8
195	9.7	10.1	2016.1	2002.9	23.6	13:11	14:11	65.7
196	9.5	10	1999.3	1983.1	23.4	13:15	14:15	65.6
197	9.1	9.7	1977	2010.8	23.2	13:19	14:19	65.5

198	8.7	9.5	1952.3	1956.9	23	13:23	14:23	65.4
199	8.7	9.3	2182.2	1943.3	22.8	13:27	14:27	65.3
200	9.2	9.5	2179.2	2172.8	22.6	13:31	14:31	65.2
201	9.4	9.7	2177.6	2168.4	22.3	13:35	14:35	65.1
202	9.4	9.8	2172.9	72.3	22.1	13:39	14:39	65
203	8.8	9.6	2152.9	68.6	21.8	13:43	14:43	64.9
204	8.7	9.6	2219.2	2196.8	21.5	13:47	14:47	64.7
205	8.7	9.8	2267.4	56.8	21.3	13:51	14:51	64.6
206	8.6	9.8	2269.4	53.6	20.9	13:55	14:55	64.5
207	8.7	9.7	2338.4	56.3	20.6	14:00	15:00	64.3
208	8.7	9.7	2344.7	53.7	20.3	14:04	15:04	64.1
209	8.7	9.8	2367.6	54	20	14:08	15:08	64
210	8.7	10.3	2388	45.6	19.6	14:12	15:12	63.8
211	8.8	10.6	2424.9	46	19.2	14:16	15:16	63.6
212	8.9	10.9	2425.8	45.2	18.9	14:21	15:21	63.4
213	8.9	11.1	2440	45.7	18.5	14:25	15:25	63.2
214	8.9	11.1	2440.1	45.3	18.1	14:29	15:29	63
215	9.1	10.5	2465.5	41.8	17.6	14:34	15:34	62.8
216	9.1	12	2467.4	30	17.2	14:38	15:38	62.6
217	9.2	12.6	2475.1	29.4	16.8	14:43	15:43	62.4
218	9.2	12.6	2476	29.5	16.3	14:47	15:47	62.1
219	9.3	12.6	2470.9	29.6	15.8	14:52	15:52	61.9
220	9.4	13.3	2458.8	27.4	15.3	14:56	15:56	61.7
221	9.4	14.4	2443.5	26.8	14.8	15:01	16:01	61.4
222	9.5	15.4	2441.9	26.3	14.3	15:05	16:05	61.1
223	9.6	15.9	2444.5	25.8	13.8	15:10	16:10	60.8
224	9.6	16.2	2425.1	25.3	13.2	15:15	16:15	60.5
225	9.7	16.3	2409.4	24.8	12.6	15:19	16:19	60.2
226	9.8	16.6	2429	25.2	12.1	15:24	16:24	59.9
227	9.9	16.8	2440.9	25.4	11.5	15:29	16:29	59.6
228	10	17	2441.5	24.9	10.9	15:34	16:34	59.3
229	10.1	17.1	2454.2	24.8	10.2	15:39	16:39	58.9
230	10.2	16.6	2455	25.3	9.6	15:44	16:44	58.6
231	10.3	16.2	2449.3	25.7	8.9	15:49	16:49	58.2
232	10.4	16.2	2460.7	26.3	8.3	15:54	16:54	57.8
233	10.4	15.7	2448.7	25.9	7.6	15:59	16:59	57.5
234	10.5	15.1	2423.7	25.9	6.9	16:04	17:04	57.1
235	10.5	14.4	2419.9	26.5	6.2	16:09	17:09	56.6
236	10.4	13.2	2414.8	27.1	5.5	16:14	17:14	56.2
237	10.9	11.7	1275.6	1256.8	4.7	16:19	17:19	55.8
238	11.1	12	1286.1	1268.8	4	16:25	17:25	55.3
239	11.1	12	1296	1301.2	3.2	16:30	17:30	54.9
240	10.9	11.9	1305.8	1313	2.4	16:35	17:35	54.4
241	10.7	11.9	1312.1	1317.2	1.6	16:41	17:41	53.9
242	10.6	12	1323.9	1319.7	0.8	16:46	17:46	53.4
243	10.8	11.9	1326.4	1322	0	16:51	17:51	52.8
244	10.8	11.9	1330.7	1316.8	-0.8	16:57	17:57	52.3
245	10.8	11.8	1331.9	1337.8				51.8
246	10.5	11.8	1339.7	1342.8				51.2
247	10.4	11.6	1379.7	1382.4				50.6
248	10.5	11.7	1393.2	1398.9				50
249	10.5	11.7	1393.3	1397.9				49.4
250	10.5	11.7	1396	1392.6				48.7
251	10.4	11.7	1414.5	1407.3				48.1
252	10.2	11.6	1433	1415				47.4
253	10.2	11.5	1461.9	1442.8				46.8
254	10.2	11.3	1465.4	1470				46.1
255	10	11.3	1471	1475.5				45.3
256	9.7	11.1	1477.1	1471.8				44.6
257	9.4	10.4	1478.6	1492.9				43.9

258	9.2	10.2	1570.4	1571.5	43.1
259	9.2	10.2	1569.2	1570.9	42.3
260	9	10.2	1614.4	1585.1	41.5
261	9.1	10.1	1622.3	1603.9	40.7
262	9	10	1622.4	1595.9	39.9
263	8.7	9.8	1644.1	1633.3	39.1
264	8.8	9.7	1659.6	1651	38.2
265	8.9	9.2	1670	1513.4	37.4
266	8.8	9.1	1691.6	1629.2	36.5
267	8.7	9.6	1706.9	1714.9	35.6
268	8.8	9.8	1709.2	1708.3	34.7
269	9.1	9.8	1713.5	1711.1	33.8
270	8.8	9.5	1728	1741	32.9
271	8.3	9.2	1733.4	1683.4	31.9
272	8.1	8.7	1770.3	1784.3	31
273	7.7	8.6	1805	1717.8	30
274	7.4	8.4	1830.8	1713.7	29.1
275	7	8	1873.4	1707.2	28.1
276	6.7	7.7	1884.7	1665.7	27.1
277	6.2	7.5	1655.4	1664.4	26.2
278	5.9	7.1	1972.3	1519.1	25.2
279	5.6	6.9	2010.7	1519.6	24.2
280	5.4	6.6	2166.8	1508.3	23.2
281	5.4	6.4	2171.7	1495	22.3
282	5.3	6.1	2208.9	1652.2	21.3
283	5.1	5.9	2300.9	1660.1	20.3
284	5.1	5.9	2324.2	2366.2	19.3
285	5.1	5.7	2364.8	2272.3	18.3
286	4.8	5.6	2541.4	2521.5	17.4
287	4.9	5.6	2642.2	2614.7	16.4
288	4.8	5.5	2648	2624.9	15.4
289	4.5	5.1	2834.6	2758	14.5
290	4.3	5	3008.3	2845.8	13.5
291	4.4	4.8	3265.6	3094	12.6
292	4.3	5.5	3270.8	236.2	11.7
293	4.4	5.7	3456.6	236.4	10.7
294	4.7	5.9	3446.2	14.5	9.8
295	4.7	7.5	3523.5	14.6	8.9
296	4.7	8.7	3870.2	14.7	8
297	4.8	10.2	3816	23.3	7.2
298	4.8	11.5	3788.7	22.8	6.3
299	4.4	12.4	3789.1	23	5.4
300	3.6	13.2	3790.6	23.2	4.6
301	3	14.5	3780.2	23.4	3.8
302	2.7	15.8	218.2	23.7	3
303	2.5	16.6	219.4	24	2.2
304	2.4	17.5	10787.1	24.2	1.4
305	2.3	18	194.5	24.5	0.6
306	2.1	18.5	195.4	24.8	-0.2
307	2.1	19	176	24.2	-0.9
308	2.1	19.3	174	23.6	
309	2.1	19.5	175.2	23.2	
310	2	19.3	42345.3	23.4	
311	2	19.1	18359.7	23.7	
312	2.1	18.8	18626.8	23.5	
313	2.3	18.6	19544.2	23	
314	2.7	17.6	19530.5	24.8	
315	2.7	17	19735.5	25.1	
316	2.8	16.3	19775.4	25.7	
317	2.8	16	19737.9	25.5	

318	3	15.8	19578.8	25.1
319	3	15.8	19457.2	25.6
320	2.9	15.4	18449.3	26.1
321	3.2	14.4	21351.3	26.6
322	3.3	13.1	21359.3	26.2
323	3.1	11.4	22903.8	26.2
324	3.1	9.2	20713.2	28.4
325	3.4	7.6	23994.2	29
326	3.6	4.8	24169.3	28.6
327	3.6	3.6	24728.6	24728.6
328	3.5	3.5	26059.6	26059.6
329	3.2	3.2	26979.7	26979.7
330	3.3	3.6	27894.9	213.4
331	3.4	5.4	27764.8	41.8
332	3.5	6	12242	39.1
333	3.7	6.9	12235.7	39.3
334	3.8	7.2	20201.9	39.5
335	4	7.4	20230.9	39.7
336	4.1	7.5	20479.6	40.1
337	4.3	7.3	20842.8	39.8
338	4.3	7.2	20849.6	40.6
339	4.2	7.1	11320.3	44.4
340	4.2	7.2	11354.1	44.2
341	4.1	7.3	11458.7	44
342	4.2	7.1	11396.8	43.8
343	4.2	6.6	11377.6	53.9
344	4	6.7	11321.6	53.8
345	4	6	10941.4	54.5
346	4	5.4	10935.6	55.3
347	4	7.3	10957	64.1
348	3.9	7.9	10892.4	64.8
349	3.8	8.3	10836.4	65.8
350	3.8	8.9	10951.8	36.9
351	3.8	9.9	10940.6	36.8
352	4	11.7	24294.9	36.7
353	3.8	13.5	10769.8	37.6
354	3.7	15.1	10791.4	36.5
355	3.8	16.6	22914.4	36.4
356	4.1	17.5	21662.9	36.4
357	4.2	17.5	22234.2	36.4
358	4.2	17.4	22290.3	36.3
359	3.9	16.5	20755.5	36.3

Alle numerischen Winkelangaben der Tabelle erfolgen in (Alt-)Grad.

Der Azimutwinkel beträgt für Norden 0°, für Osten 90°, für Süden 180° und für Westen 270°.

Alle weiteren Spalten der Tabelle geben den Höhenwinkel über dem astronomischen Horizont bzw. die entsprechende Uhrzeit am Abfragetag an.

Ein Dienst der Länderkooperation geoland.at ([Dokumentation](#), [Kontakt](#), [Impressum](#)).

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