

Appendix 7



Appendix 7.1

Shadow Flicker Modelling Data & Results



Shadow Flicker Model Input Data

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
1	D123	643095	709748	1-1	-1	6	20	2	1.1	0	347
				1-2	10	2	12	2	1.1	0	77
				1-3	1	-6	20	2	1.1	0	167
				1-4	-10	-2	12	2	1.1	0	257
2	D124	643104	709740	2-1	-2	4	6	2	1.1	0	334
				2-2	3	1	8	2	1.1	0	64
				2-3	2	-4	6	2	1.1	0	154
				2-4	-3	-1	8	2	1.1	0	244
3	D125	643302	709514	3-1	-7	6	10	2	1.1	0	312
				3-2	3	4	18	2	1.1	0	42
				3-3	7	-6	10	2	1.1	0	132
				3-4	-3	-4	18	2	1.1	0	222
4	D126	643322	709481	4-1	-7	6	10	2	1.1	0	312
				4-2	3	4	18	2	1.1	0	42
				4-3	7	-6	10	2	1.1	0	132
				4-4	-3	-4	18	2	1.1	0	222
5	D127	643417	709195	5-1	-8	7	14	2	1.1	0	312
				5-2	5	5	22	2	1.1	0	42
				5-3	8	-7	14	2	1.1	0	132
				5-4	-5	-5	22	2	1.1	0	222
6	D128	643492	709181	6-1	-6	4	12	2	1.1	0	303
				6-2	3	5	15	2	1.1	0	33
				6-3	6	-4	12	2	1.1	0	123
				6-4	-3	-5	15	2	1.1	0	213
7	D129	643695	709347	7-1	-10	7	14	2	1.1	0	306
				7-2	4	6	24	2	1.1	0	36
				7-3	10	-7	14	2	1.1	0	126
				7-4	-4	-6	24	2	1.1	0	216
8	D130	643432	708991	8-1	-5	1	36	2	1.1	0	285
				8-2	5	17	10	2	1.1	0	15
				8-3	5	-1	36	2	1.1	0	105
				8-4	-5	-17	10	2	1.1	0	195
9	D131	643811	708817	9-1	-3	4	18	2	1.1	0	323
				9-2	7	5	11	2	1.1	0	53
				9-3	3	-4	18	2	1.1	0	143
				9-4	-7	-5	11	2	1.1	0	233
10	D132	643845	708806	10-1	-6	8	11	2	1.1	0	322
				10-2	4	3	20	2	1.1	0	52
				10-3	6	-8	11	2	1.1	0	142
				10-4	-4	-3	20	2	1.1	0	232
11	D133	643755	708789	11-1	-3	5	14	2	1.1	0	330
				11-2	6	4	12	2	1.1	0	60
				11-3	3	-5	14	2	1.1	0	150

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				11-4	-6	-4	12	2	1.1	0	240
12	D134	645432	709134	12-1	-2	4	15	2	1.1	0	333
				12-2	7	3	10	2	1.1	0	63
				12-3	2	-4	15	2	1.1	0	153
				12-4	-7	-3	10	2	1.1	0	243
13	D136	645054	709434	13-1	-11	10	20	2	1.1	0	312
				13-2	7	7	30	2	1.1	0	42
				13-3	11	-10	20	2	1.1	0	132
				13-4	-7	-7	30	2	1.1	0	222
14	D135	645427	709193	14-1	0	8	13	2	1.1	0	358
				14-2	7	0	16	2	1.1	0	88
				14-3	0	-8	13	2	1.1	0	178
				14-4	-7	0	16	2	1.1	0	268
15	D138	644911	709473	15-1	-12	4	14	2	1.1	0	288
				15-2	2	7	25	2	1.1	0	18
				15-3	12	-4	14	2	1.1	0	108
				15-4	-2	-7	25	2	1.1	0	198
16	D137	645062	709540	16-1	-5	3	20	2	1.1	0	305
				16-2	6	8	12	2	1.1	0	35
				16-3	5	-3	20	2	1.1	0	125
				16-4	-6	-8	12	2	1.1	0	215
17	D29	642894	710107	17-1	-6	6	24	2	1.1	0	316
				17-2	9	8	16	2	1.1	0	46
				17-3	6	-6	24	2	1.1	0	136
				17-4	-9	-8	16	2	1.1	0	226
18	D31	642969	710200	18-1	-5	2	18	2	1.1	0	291
				18-2	3	8	10	2	1.1	0	21
				18-3	5	-2	18	2	1.1	0	111
				18-4	-3	-8	10	2	1.1	0	201
19	D33	642977	710240	19-1	-6	0	15	2	1.1	0	273
				19-2	0	7	12	2	1.1	0	3
				19-3	6	0	15	2	1.1	0	93
				19-4	0	-7	12	2	1.1	0	183
20	D34	642972	710262	20-1	-2	9	9	2	1.1	0	345
				20-2	4	1	19	2	1.1	0	75
				20-3	2	-9	9	2	1.1	0	165
				20-4	-4	-1	19	2	1.1	0	255
21	D35	642964	710283	21-1	-4	7	10	2	1.1	0	332
				21-2	4	2	16	2	1.1	0	62
				21-3	4	-7	10	2	1.1	0	152
				21-4	-4	-2	16	2	1.1	0	242
22	D36	642947	710310	22-1	-7	6	9	2	1.1	0	313
				22-2	3	3	18	2	1.1	0	43
				22-3	7	-6	9	2	1.1	0	133

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				22-4	-3	-3	18	2	1.1	0	223
23	D43	642744	710831	23-1	-2	6	9	2	1.1	0	338
				23-2	4	2	13	2	1.1	0	68
				23-3	2	-6	9	2	1.1	0	158
				23-4	-4	-2	13	2	1.1	0	248
24	D46	642939	710979	24-1	-7	3	14	2	1.1	0	292
				24-2	3	6	15	2	1.1	0	22
				24-3	7	-3	14	2	1.1	0	112
				24-4	-3	-6	15	2	1.1	0	202
25	D41	643077	710699	25-1	-2	4	12	2	1.1	0	334
				25-2	5	3	10	2	1.1	0	64
				25-3	2	-4	12	2	1.1	0	154
				25-4	-5	-3	10	2	1.1	0	244
26	D42	643110	710716	26-1	-3	5	18	2	1.1	0	334
				26-2	8	4	12	2	1.1	0	64
				26-3	3	-5	18	2	1.1	0	154
				26-4	-8	-4	12	2	1.1	0	244
27	D40	643127	710656	27-1	-3	7	21	2	1.1	0	335
				27-2	10	4	15	2	1.1	0	65
				27-3	3	-7	21	2	1.1	0	155
				27-4	-10	-4	15	2	1.1	0	245
28	D39	642976	710371	28-1	-7	8	10	2	1.1	0	321
				28-2	4	3	21	2	1.1	0	51
				28-3	7	-8	10	2	1.1	0	141
				28-4	-4	-3	21	2	1.1	0	231
29	D38	642968	710332	29-1	-4	3	6	2	1.1	0	310
				29-2	2	2	10	2	1.1	0	40
				29-3	4	-3	6	2	1.1	0	130
				29-4	-2	-2	10	2	1.1	0	220
30	D37	643014	710323	30-1	-7	7	12	2	1.1	0	315
				30-2	4	4	20	2	1.1	0	45
				30-3	7	-7	12	2	1.1	0	135
				30-4	-4	-4	20	2	1.1	0	225
31	D50	645166	710362	31-1	-5	2	22	2	1.1	0	288
				31-2	3	10	11	2	1.1	0	18
				31-3	5	-2	22	2	1.1	0	108
				31-4	-3	-10	11	2	1.1	0	198
32	D51	645251	710374	32-1	-8	3	17	2	1.1	0	290
				32-2	3	8	17	2	1.1	0	20
				32-3	8	-3	17	2	1.1	0	110
				32-4	-3	-8	17	2	1.1	0	200
33	D52	645266	710410	33-1	-7	3	23	2	1.1	0	291
				33-2	4	11	15	2	1.1	0	21
				33-3	7	-3	23	2	1.1	0	111

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				33-4	-4	-11	15	2	1.1	0	201
34	D53	645286	710466	34-1	-5	2	19	2	1.1	0	289
				34-2	3	9	10	2	1.1	0	19
				34-3	5	-2	19	2	1.1	0	109
				34-4	-3	-9	10	2	1.1	0	199
35	512	645376	710607	35-1	-9	2	25	2	1.1	0	286
				35-2	3	12	18	2	1.1	0	16
				35-3	9	-2	25	2	1.1	0	106
				35-4	-3	-12	18	2	1.1	0	196
36	D56	646173	710425	36-1	-8	6	15	2	1.1	0	306
				36-2	4	6	19	2	1.1	0	36
				36-3	8	-6	15	2	1.1	0	126
				36-4	-4	-6	19	2	1.1	0	216
37	D28	642872	710085	37-1	-3	4	15	2	1.1	0	328
				37-2	6	4	10	2	1.1	0	58
				37-3	3	-4	15	2	1.1	0	148
				37-4	-6	-4	10	2	1.1	0	238
38	D44	642714	710873	38-1	-2	7	10	2	1.1	0	342
				38-2	5	2	14	2	1.1	0	72
				38-3	2	-7	10	2	1.1	0	162
				38-4	-5	-2	14	2	1.1	0	252
39	D47	642928	711096	39-1	-9	7	16	2	1.1	0	308
				39-2	5	6	22	2	1.1	0	38
				39-3	9	-7	16	2	1.1	0	128
				39-4	-5	-6	22	2	1.1	0	218
40	D45 P/A	642702	711011	40-1	0	3	12	2	1.1	0	354
				40-2	6	1	7	2	1.1	0	84
				40-3	0	-3	12	2	1.1	0	174
				40-4	-6	-1	7	2	1.1	0	264
41	D54	645308	710509	41-1	-5	2	19	2	1.1	0	289
				41-2	3	9	10	2	1.1	0	19
				41-3	5	-2	19	2	1.1	0	109
				41-4	-3	-9	10	2	1.1	0	199
42	D49	643422	709901	42-1	-5	3	15	2	1.1	0	302
				42-2	4	6	12	2	1.1	0	32
				42-3	5	-3	15	2	1.1	0	122
				42-4	-4	-6	12	2	1.1	0	212
43	D13	642618	713069	43-1	-4	2	18	2	1.1	0	296
				43-2	4	8	10	2	1.1	0	26
				43-3	4	-2	18	2	1.1	0	116
				43-4	-4	-8	10	2	1.1	0	206
44	D17	642703	713225	44-1	-3	2	12	2	1.1	0	296
				44-2	3	5	7	2	1.1	0	26
				44-3	3	-2	12	2	1.1	0	116

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				44-4	-3	-5	7	2	1.1	0	206
45	D18	642747	713256	45-1	-5	2	14	2	1.1	0	292
				45-2	3	6	10	2	1.1	0	22
				45-3	5	-2	14	2	1.1	0	112
				45-4	-3	-6	10	2	1.1	0	202
46	D16	642726	713175	46-1	-5	2	18	2	1.1	0	293
				46-2	4	8	10	2	1.1	0	23
				46-3	5	-2	18	2	1.1	0	113
				46-4	-4	-8	10	2	1.1	0	203
47	D14	642638	713111	47-1	-5	3	16	2	1.1	0	295
				47-2	3	7	12	2	1.1	0	25
				47-3	5	-3	16	2	1.1	0	115
				47-4	-3	-7	12	2	1.1	0	205
48	D19	642766	712839	48-1	-5	3	12	2	1.1	0	297
				48-2	3	5	12	2	1.1	0	27
				48-3	5	-3	12	2	1.1	0	117
				48-4	-3	-5	12	2	1.1	0	207
49	D20	642824	712840	49-1	-6	2	10	2	1.1	0	290
				49-2	2	5	12	2	1.1	0	20
				49-3	6	-2	10	2	1.1	0	110
				49-4	-2	-5	12	2	1.1	0	200
50	D15	642716	713080	50-1	-3	2	13	2	1.1	0	308
				50-2	4	5	8	2	1.1	0	38
				50-3	3	-2	13	2	1.1	0	128
				50-4	-4	-5	8	2	1.1	0	218
51	D1	641981	712890	51-1	-2	8	8	2	1.1	0	342
				51-2	4	1	16	2	1.1	0	72
				51-3	2	-8	8	2	1.1	0	162
				51-4	-4	-1	16	2	1.1	0	252
52	D10	642418	712721	52-1	-6	3	25	2	1.1	0	296
				52-2	5	11	14	2	1.1	0	26
				52-3	6	-3	25	2	1.1	0	116
				52-4	-5	-11	14	2	1.1	0	206
53	D9	642525	712638	53-1	-8	3	13	2	1.1	0	290
				53-2	2	6	17	2	1.1	0	20
				53-3	8	-3	13	2	1.1	0	110
				53-4	-2	-6	17	2	1.1	0	200
54	D12	642582	712952	54-1	-6	4	27	2	1.1	0	308
				54-2	8	11	14	2	1.1	0	38
				54-3	6	-4	27	2	1.1	0	128
				54-4	-8	-11	14	2	1.1	0	218
55	D8	642492	712612	55-1	-5	3	17	2	1.1	0	301
				55-2	4	7	11	2	1.1	0	31
				55-3	5	-3	17	2	1.1	0	121

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				55-4	-4	-7	11	2	1.1	0	211
56	D7	642473	712598	56-1	-3	1	8	2	1.1	0	290
				56-2	1	4	6	2	1.1	0	20
				56-3	3	-1	8	2	1.1	0	110
				56-4	-1	-4	6	2	1.1	0	200
57	D6	642467	712569	57-1	-4	1	12	2	1.1	0	287
				57-2	2	6	8	2	1.1	0	17
				57-3	4	-1	12	2	1.1	0	107
				57-4	-2	-6	8	2	1.1	0	197
58	D4	642359	712451	58-1	-6	3	15	2	1.1	0	296
				58-2	3	7	13	2	1.1	0	26
				58-3	6	-3	15	2	1.1	0	116
				58-4	-3	-7	13	2	1.1	0	206
59	D2	642292	712371	59-1	0	3	12	2	1.1	0	356
				59-2	6	0	7	2	1.1	0	86
				59-3	0	-3	12	2	1.1	0	176
				59-4	-6	0	7	2	1.1	0	266
60	D3	642344	712302	60-1	-5	3	15	2	1.1	0	296
				60-2	3	7	12	2	1.1	0	26
				60-3	5	-3	15	2	1.1	0	116
				60-4	-3	-7	12	2	1.1	0	206
61	D21	642234	711876	61-1	-4	3	16	2	1.1	0	304
				61-2	4	7	9	2	1.1	0	34
				61-3	4	-3	16	2	1.1	0	124
				61-4	-4	-7	9	2	1.1	0	214
62	FB23	642119	711541	62-1	-3	0	12	2	1.1	0	272
				62-2	0	6	6	2	1.1	0	2
				62-3	3	0	12	2	1.1	0	92
				62-4	0	-6	6	2	1.1	0	182
63	D24	641920	711500	63-1	-8	4	8	2	1.1	0	298
				63-2	2	4	18	2	1.1	0	28
				63-3	8	-4	8	2	1.1	0	118
				63-4	-2	-4	18	2	1.1	0	208
64	D27	642020	711282	64-1	-3	2	16	2	1.1	0	305
				64-2	5	7	8	2	1.1	0	35
				64-3	3	-2	16	2	1.1	0	125
				64-4	-5	-7	8	2	1.1	0	215
65	D26	642109	711284	65-1	-4	0	12	2	1.1	0	272
				65-2	0	6	8	2	1.1	0	2
				65-3	4	0	12	2	1.1	0	92
				65-4	0	-6	8	2	1.1	0	182
66	D25	642153	711300	66-1	-8	0	7	2	1.1	0	272
				66-2	0	4	15	2	1.1	0	2
				66-3	8	0	7	2	1.1	0	92

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				66-4	0	-4	15	2	1.1	0	182
67	D32	643054	710195	67-1	-4	3	22	2	1.1	0	312
				67-2	7	8	10	2	1.1	0	42
				67-3	4	-3	22	2	1.1	0	132
				67-4	-7	-8	10	2	1.1	0	222
68	D30	642919	710122	68-1	-3	3	12	2	1.1	0	316
				68-2	4	4	9	2	1.1	0	46
				68-3	3	-3	12	2	1.1	0	136
				68-4	-4	-4	9	2	1.1	0	226
69	D11	642457	712785	69-1	-5	3	20	2	1.1	0	300
				69-2	5	9	12	2	1.1	0	30
				69-3	5	-3	20	2	1.1	0	120
				69-4	-5	-9	12	2	1.1	0	210
70	D5	642541	712520	70-1	-6	2	6	2	1.1	0	286
				70-2	1	3	12	2	1.1	0	16
				70-3	6	-2	6	2	1.1	0	106
				70-4	-1	-3	12	2	1.1	0	196
71	MH50A	645134	710407	71-1	-8	3	12	2	1.1	0	292
				71-2	2	6	18	2	1.1	0	22
				71-3	8	-3	12	2	1.1	0	112
				71-4	-2	-6	18	2	1.1	0	202
72	D101	642832	713855	72-1	-4	2	18	2	1.1	0	296
				72-2	4	8	9	2	1.1	0	26
				72-3	4	-2	18	2	1.1	0	116
				72-4	-4	-8	9	2	1.1	0	206
73	D102	643288	713723	73-1	-6	2	14	2	1.1	0	293
				73-2	3	6	12	2	1.1	0	23
				73-3	6	-2	14	2	1.1	0	113
				73-4	-3	-6	12	2	1.1	0	203
74	D103	641984	713367	74-1	-6	1	15	2	1.1	0	279
				74-2	1	7	12	2	1.1	0	9
				74-3	6	-1	15	2	1.1	0	99
				74-4	-1	-7	12	2	1.1	0	189
75	D104	641954	713191	75-1	-4	1	14	2	1.1	0	278
				75-2	1	7	9	2	1.1	0	8
				75-3	4	-1	14	2	1.1	0	98
				75-4	-1	-7	9	2	1.1	0	188
76	D105	641934	713052	76-1	-1	6	6	2	1.1	0	354
				76-2	3	0	12	2	1.1	0	84
				76-3	1	-6	6	2	1.1	0	174
				76-4	-3	0	12	2	1.1	0	264
77	D106	641951	712998	77-1	-1	8	8	2	1.1	0	352
				77-2	4	1	16	2	1.1	0	82
				77-3	1	-8	8	2	1.1	0	172

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				77-4	-4	-1	16	2	1.1	0	262
78	D107	641533	712365	78-1	-5	3	23	2	1.1	0	296
				78-2	5	10	12	2	1.1	0	26
				78-3	5	-3	23	2	1.1	0	116
				78-4	-5	-10	12	2	1.1	0	206
79	D108	641983	711262	79-1	-4	3	13	2	1.1	0	306
				79-2	4	5	11	2	1.1	0	36
				79-3	4	-3	13	2	1.1	0	126
				79-4	-4	-5	11	2	1.1	0	216
80	D109	641914	711200	80-1	-5	5	11	2	1.1	0	320
				80-2	4	4	14	2	1.1	0	50
				80-3	5	-5	11	2	1.1	0	140
				80-4	-4	-4	14	2	1.1	0	230
81	D110	641795	711067	81-1	-3	3	13	2	1.1	0	314
				81-2	5	5	8	2	1.1	0	44
				81-3	3	-3	13	2	1.1	0	134
				81-4	-5	-5	8	2	1.1	0	224
82	D111	641746	711042	82-1	-5	5	20	2	1.1	0	311
				82-2	7	8	14	2	1.1	0	41
				82-3	5	-5	20	2	1.1	0	131
				82-4	-7	-8	14	2	1.1	0	221
83	D112	641704	710989	83-1	-3	2	15	2	1.1	0	302
				83-2	4	6	8	2	1.1	0	32
				83-3	3	-2	15	2	1.1	0	122
				83-4	-4	-6	8	2	1.1	0	212
84	D113	642178	710538	84-1	-3	1	12	2	1.1	0	285
				84-2	2	6	6	2	1.1	0	15
				84-3	3	-1	12	2	1.1	0	105
				84-4	-2	-6	6	2	1.1	0	195
85	D114	642057	710550	85-1	-6	1	18	2	1.1	0	282
				85-2	2	9	13	2	1.1	0	12
				85-3	6	-1	18	2	1.1	0	102
				85-4	-2	-9	13	2	1.1	0	192
86	D115	642525	710351	86-1	-2	7	11	2	1.1	0	345
				86-2	5	1	15	2	1.1	0	75
				86-3	2	-7	11	2	1.1	0	165
				86-4	-5	-1	15	2	1.1	0	255
87	D116	642606	710198	87-1	-4	10	14	2	1.1	0	337
				87-2	6	3	22	2	1.1	0	67
				87-3	4	-10	14	2	1.1	0	157
				87-4	-6	-3	22	2	1.1	0	247
88	D117	642645	710141	88-1	-7	9	16	2	1.1	0	322
				88-2	6	5	22	2	1.1	0	52
				88-3	7	-9	16	2	1.1	0	142

Receptor ID	Building Survey ID	X Coord (IRENET95)	Y Coord (IRENET95)	Window ID	East Correction	North Correction	Window Width	Window Height	Window Centre Height	Tilt	Direction (°)
				88-4	-6	-5	22	2	1.1	0	232
89	D119	642531	710193	89-1	-3	6	30	2	1.1	0	338
				89-2	14	6	14	2	1.1	0	68
				89-3	3	-6	30	2	1.1	0	158
				89-4	-14	-6	14	2	1.1	0	248
90	D120	642567	710148	90-1	-4	7	12	2	1.1	0	332
				90-2	5	3	16	2	1.1	0	62
				90-3	4	-7	12	2	1.1	0	152
				90-4	-5	-3	16	2	1.1	0	242
91	D121	642564	710064	91-1	-4	1	11	2	1.1	0	291
				91-2	2	5	8	2	1.1	0	21
				91-3	4	-1	11	2	1.1	0	111
				91-4	-2	-5	8	2	1.1	0	201
92	D121A	642610	710081	92-1	-7	0	7	2	1.1	0	273
				92-2	0	4	14	2	1.1	0	3
				92-3	7	0	7	2	1.1	0	93
				92-4	0	-4	14	2	1.1	0	183
93	D139	646252	710399	93-1	-6	4	8	2	1.1	0	303
				93-2	2	3	14	2	1.1	0	33
				93-3	6	-4	8	2	1.1	0	123
				93-4	-2	-3	14	2	1.1	0	213
94	D122	642567	709921	94-1	-4	1	15	2	1.1	0	291
				94-2	3	7	8	2	1.1	0	21
				94-3	4	-1	15	2	1.1	0	111
				94-4	-3	-7	8	2	1.1	0	201
95	D140	646264	710391	95-1	-6	4	8	2	1.1	0	303
				95-2	2	3	14	2	1.1	0	33
				95-3	6	-4	8	2	1.1	0	123
				95-4	-2	-3	14	2	1.1	0	213
96	512A	645404	710620	96-1	-9	2	8	2	1.1	0	284
				96-2	1	4	18	2	1.1	0	14
				96-3	9	-2	8	2	1.1	0	104
				96-4	-1	-4	18	2	1.1	0	194
97	D13B	642605	712975	97-1	-7	3	16	2	1.1	0	293
				97-2	3	7	15	2	1.1	0	23
				97-3	7	-3	16	2	1.1	0	113
				97-4	-3	-7	15	2	1.1	0	203
98	D117A	642639	710158	98-1	-2	2	6	2	1.1	0	325
				98-2	2	2	6	2	1.1	0	55
				98-3	2	-2	6	2	1.1	0	145
				98-4	-2	-2	6	2	1.1	0	235

Shadow Flicker Predictions by Receptor

Receptor ID	Building Survey ID	Easting (IRENET95)	Northing (IRENET95)	Total Theoretical Days Per Year	Maximum Theoretical Hours Per Day	Average Duration of Shadow Flicker Effects (Hours)	Total Theoretical Hours Per Year	'Likely' Hours Per Year
1	D123	643095	709748	90	0.61	0.44	39.4	10.2
2	D124	643104	709740	96	0.59	0.42	40	10.4
3	D125	643302	709514	39	0.45	0.35	13.8	3.6
4	D126	643322	709481	21	0.26	0.21	4.3	1.1
5	D127	643417	709195	0	0	0	0	0.0
6	D128	643492	709181	0	0	0	0	0.0
7	D129	643695	709347	0	0	0	0	0.0
8	D130	643432	708991	0	0	0	0	0.0
9	D131	643811	708817	0	0	0	0	0.0
10	D132	643845	708806	0	0	0	0	0.0
11	D133	643755	708789	0	0	0	0	0.0
12	D134	645432	709134	0	0	0	0	0.0
13	D136	645054	709434	0	0	0	0	0.0
14	D135	645427	709193	0	0	0	0	0.0
15	D138	644911	709473	0	0	0	0	0.0
16	D137	645062	709540	0	0	0	0	0.0
17	D29	642894	710107	46	0.57	0.44	20.2	5.3
18	D31	642969	710200	121	0.59	0.37	45.2	11.8
19	D33	642977	710240	128	0.58	0.38	48.2	12.5
20	D34	642972	710262	133	0.59	0.39	51.9	13.5
21	D35	642964	710283	138	0.58	0.39	54.4	14.1
22	D36	642947	710310	141	0.58	0.41	57.4	14.9
23	D43	642744	710831	172	0.79	0.59	101.6	26.4
24	D46	642939	710979	228	1.04	0.67	152.9	39.8
25	D41	643077	710699	186	0.6	0.43	80.2	20.9
26	D42	643110	710716	191	0.63	0.46	87.6	22.8
27	D40	643127	710656	182	0.66	0.5	91.8	23.9
28	D39	642976	710371	151	0.6	0.43	64.9	16.9
29	D38	642968	710332	140	0.57	0.41	57.1	14.8
30	D37	643014	710323	143	0.62	0.41	59.3	15.4
31	D50	645166	710362	139	0.97	0.71	98.7	25.7
32	D51	645251	710374	147	0.94	0.71	105.1	27.3
33	D52	645266	710410	158	1.09	0.76	119.3	31.0
34	D53	645286	710466	169	1.18	0.8	134.5	35.0
35	512	645376	710607	203	0.87	0.61	124.7	32.4
36	D56	646173	710425	122	0.52	0.42	51	13.3
37	D28	642872	710085	43	0.54	0.42	18.1	4.7
38	D44	642714	710873	178	0.77	0.51	90.4	23.5
39	D47	642928	711096	200	1.07	0.62	123.9	32.2
40	D45 P/A	642702	711011	122	0.76	0.51	61.8	16.1
41	D54	645308	710509	178	1.04	0.77	137.3	35.7
42	D49	643422	709901	103	1.23	0.89	91.9	23.9

Receptor ID	Building Survey ID	Easting (IRENET95)	Northing (IRENET95)	Total Theoretical Days Per Year	Maximum Theoretical Hours Per Day	Average Duration of Shadow Flicker Effects (Hours)	Total Theoretical Hours Per Year	'Likely' Hours Per Year
43	D13	642618	713069	43	0.59	0.48	20.4	5.3
44	D17	642703	713225	0	0	0	0	0.0
45	D18	642747	713256	0	0	0	0	0.0
46	D16	642726	713175	0	0	0	0	0.0
47	D14	642638	713111	30	0.43	0.34	10.1	2.6
48	D19	642766	712839	73	0.94	0.78	56.9	14.8
49	D20	642824	712840	67	0.91	0.75	50	13.0
50	D15	642716	713080	24	0.34	0.27	6.5	1.7
51	D1	641981	712890	56	0.58	0.44	24.7	6.4
52	D10	642418	712721	123	0.97	0.75	92.5	24.1
53	D9	642525	712638	132	1.03	0.83	109.2	28.4
54	D12	642582	712952	70	0.81	0.69	48.1	12.5
55	D8	642492	712612	140	0.99	0.75	104.4	27.1
56	D7	642473	712598	142	0.94	0.68	96.6	25.1
57	D6	642467	712569	149	0.97	0.69	103	26.8
58	D4	642359	712451	169	0.92	0.59	99.6	25.9
59	D2	642292	712371	135	0.85	0.57	77.5	20.2
60	D3	642344	712302	164	0.94	0.6	99	25.7
61	D21	642234	711876	176	0.83	0.57	101	26.3
62	FB23	642119	711541	174	0.69	0.53	92	23.9
63	D24	641920	711500	143	0.6	0.46	65.5	17.0
64	D27	642020	711282	139	0.6	0.42	58.7	15.3
65	D26	642109	711284	129	0.64	0.41	53.2	13.8
66	D25	642153	711300	124	0.66	0.42	51.9	13.5
67	D32	643054	710195	100	0.63	0.44	44.1	11.5
68	D30	642919	710122	44	0.56	0.44	19.3	5.0
69	D11	642457	712785	109	1.07	0.83	91	23.7
70	D5	642541	712520	157	1.06	0.77	120.6	31.4
71	MH50A	645134	710407	142	1.02	0.76	107.5	28.0
72	D101	642832	713855	0	0	0	0	0.0
73	D102	643288	713723	0	0	0	0	0.0
74	D103	641984	713367	62	0.5	0.42	25.8	6.7
75	D104	641954	713191	84	0.52	0.42	35.5	9.2
76	D105	641934	713052	60	0.53	0.41	24.6	6.4
77	D106	641951	712998	58	0.55	0.43	24.9	6.5
78	D107	641533	712365	37	0.49	0.38	14.1	3.7
79	D108	641983	711262	141	0.59	0.41	58.3	15.2
80	D109	641914	711200	101	0.55	0.41	41.5	10.8
81	D110	641795	711067	91	0.5	0.35	32.1	8.3
82	D111	641746	711042	49	0.5	0.39	19.2	5.0
83	D112	641704	710989	48	0.47	0.37	17.9	4.7
84	D113	642178	710538	58	0.48	0.37	21.4	5.6
85	D114	642057	710550	0	0	0	0	0.0

Receptor ID	Building Survey ID	Easting (IRENET95)	Northing (IRENET95)	Total Theoretical Days Per Year	Maximum Theoretical Hours Per Day	Average Duration of Shadow Flicker Effects (Hours)	Total Theoretical Hours Per Year	'Likely' Hours Per Year
86	D115	642525	710351	43	0.46	0.37	16.1	4.2
87	D116	642606	710198	36	0.48	0.37	13.5	3.5
88	D117	642645	710141	38	0.49	0.38	14.4	3.7
89	D119	642531	710193	0	0	0	0	0.0
90	D120	642567	710148	36	0.46	0.35	12.6	3.3
91	D121	642564	710064	0	0	0	0	0.0
92	D121A	642610	710081	35	0.45	0.36	12.5	3.3
93	D139	646252	710399	86	0.48	0.38	32.7	8.5
94	D122	642567	709921	0	0	0	0	0.0
95	D140	646264	710391	86	0.47	0.38	32.3	8.4
96	512A	645404	710620	201	0.79	0.55	109.6	28.5
97	D13B	642605	712975	62	0.74	0.63	38.9	10.1
98	D117A	642639	710158	35	0.45	0.36	12.6	3.3

TOTALS	Number of Receptors which May Experience:			
	> 30 Minutes/Day		> 30 Hours/Year	
	59	30	55	7

Shadow Flicker Predicted Levels by Turbine

Turbine ID	Easting (IRENET 95)	Northing (IRENET 95)	Total Theoretical Days Per Year	Maximum Theoretical Hours Per Day	Mean Hours Per Day	Total Theoretical Hours Per Year	'Likely' Hours Per Year
1	643101	712155	346	2.55	1.43	493.5	128.3
2	643230	711660	280	1.43	0.85	237	61.6
3	643625	711270	355	1.6	0.81	286.3	74.4
4	644248	711316	163	2.08	1.18	192.6	50.1
5	644829	711222	86	0.53	0.45	38.3	10.0
6	645258	711533	0	0	0	0	0.0
7	644510	710801	224	1.99	1.3	291.3	75.7
8	644252	710336	278	1.89	1.03	286.3	74.4
TOTAL			1732	12.1	7.1	1825.3	474.6

Detailed Shadow Flicker Listing: Total Predicted Shadow Times from Each Turbine on All Receptors

Turbine 1

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
01-Jan	07:44	15:23	07:55	08:40
01-Jan	07:44	15:23	08:43	10:23
02-Jan	07:44	15:24	07:56	08:40
02-Jan	07:44	15:24	08:44	10:23
03-Jan	07:44	15:25	07:56	08:41
03-Jan	07:44	15:25	08:44	10:23
04-Jan	07:44	15:26	07:56	08:42
04-Jan	07:44	15:26	08:45	10:24
05-Jan	07:43	15:27	07:56	08:44
05-Jan	07:43	15:27	08:45	10:24
06-Jan	07:43	15:29	07:56	08:44
06-Jan	07:43	15:29	08:46	10:24
07-Jan	07:43	15:30	07:56	08:45
07-Jan	07:43	15:30	08:47	10:24
08-Jan	07:42	15:31	07:56	08:45
08-Jan	07:42	15:31	08:47	10:24
09-Jan	07:42	15:33	07:56	08:45
09-Jan	07:42	15:33	08:48	10:24
10-Jan	07:41	15:34	07:56	08:46
10-Jan	07:41	15:34	08:49	10:24
11-Jan	07:40	15:36	07:52	08:47
11-Jan	07:40	15:36	08:50	10:24
12-Jan	07:40	15:37	07:50	08:47
12-Jan	07:40	15:37	08:50	10:23
13-Jan	07:39	15:39	07:49	08:48
13-Jan	07:39	15:39	08:51	10:23
14-Jan	07:38	15:40	07:48	08:49
14-Jan	07:38	15:40	08:52	10:26
15-Jan	07:37	15:42	07:47	08:49
15-Jan	07:37	15:42	08:53	10:26
16-Jan	07:36	15:44	07:46	08:50
16-Jan	07:36	15:44	08:54	10:25
17-Jan	07:35	15:45	07:45	08:50
17-Jan	07:35	15:45	08:55	10:25
18-Jan	07:34	15:47	07:44	08:51
18-Jan	07:34	15:47	08:57	10:24
19-Jan	07:33	15:49	07:43	08:51
19-Jan	07:33	15:49	08:58	10:23
20-Jan	07:32	15:51	07:42	08:52
20-Jan	07:32	15:51	08:59	10:21
21-Jan	07:31	15:52	07:41	08:52
21-Jan	07:31	15:52	09:01	10:20
22-Jan	07:29	15:54	07:41	08:52
22-Jan	07:29	15:54	09:03	09:28
22-Jan	07:29	15:54	09:31	10:18
23-Jan	07:28	15:56	07:39	08:53

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
23-Jan	07:28	15:56	09:05	09:27
23-Jan	07:28	15:56	09:33	10:15
24-Jan	07:27	15:58	07:37	08:53
24-Jan	07:27	15:58	09:07	09:25
24-Jan	07:27	15:58	09:35	10:03
25-Jan	07:26	16:00	07:36	08:53
25-Jan	07:26	16:00	09:11	09:22
25-Jan	07:26	16:00	09:38	10:01
26-Jan	07:24	16:01	07:35	08:53
26-Jan	07:24	16:01	09:42	09:58
27-Jan	07:23	16:03	07:33	08:53
28-Jan	07:21	16:05	07:32	08:53
29-Jan	07:20	16:07	07:32	08:53
30-Jan	07:18	16:09	07:31	08:53
31-Jan	07:17	16:11	07:30	08:56
01-Feb	07:15	16:13	07:30	08:56
02-Feb	07:13	16:15	07:30	08:56
03-Feb	07:12	16:17	07:29	08:55
04-Feb	07:10	16:19	07:28	08:54
05-Feb	07:08	16:21	07:28	08:53
06-Feb	07:06	16:23	07:27	08:52
07-Feb	07:05	16:25	07:26	08:51
08-Feb	07:03	16:26	07:26	08:50
09-Feb	07:01	16:28	07:25	08:48
10-Feb	06:59	16:30	07:25	08:48
11-Feb	06:57	16:32	07:24	08:47
12-Feb	06:55	16:34	07:24	08:47
13-Feb	06:53	16:36	07:08	07:24
13-Feb	06:53	16:36	07:24	08:46
14-Feb	06:51	16:38	07:04	08:45
15-Feb	06:49	16:40	07:01	08:45
16-Feb	06:47	16:42	06:59	08:44
17-Feb	06:45	16:44	06:57	08:42
18-Feb	06:43	16:46	06:55	08:41
19-Feb	06:41	16:48	06:54	08:40
20-Feb	06:39	16:50	06:52	08:38
21-Feb	06:37	16:52	06:51	08:36
22-Feb	06:34	16:54	06:50	08:33
23-Feb	06:32	16:56	06:49	08:31
24-Feb	06:30	16:58	06:44	08:28
25-Feb	06:28	17:00	06:40	08:24
26-Feb	06:26	17:01	06:37	08:24
27-Feb	06:23	17:03	06:35	08:23
28-Feb	06:21	17:05	06:32	08:21
29-02	06:19	17:07	06:31	08:20
01-Mar	06:17	17:09	06:29	08:19
02-Mar	06:14	17:11	06:27	08:17
03-Mar	06:12	17:13	06:24	08:15
04-Mar	06:10	17:15	06:22	08:13

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
05-Mar	06:07	17:17	06:19	08:11
06-Mar	06:05	17:18	06:14	07:38
06-Mar	06:05	17:18	07:37	08:09
07-Mar	06:03	17:20	06:10	07:37
07-Mar	06:03	17:20	07:40	08:05
08-Mar	06:00	17:22	06:08	07:36
08-Mar	06:00	17:22	07:44	08:01
09-Mar	05:58	17:24	06:06	07:35
10-Mar	05:56	17:26	06:04	07:34
11-Mar	05:53	17:28	06:02	07:32
12-Mar	05:51	17:30	06:01	07:31
13-Mar	05:49	17:31	06:00	07:29
14-Mar	05:46	17:33	06:00	07:27
15-Mar	05:44	17:35	05:59	07:24
16-Mar	05:41	17:37	05:59	07:21
17-Mar	05:39	17:39	05:59	07:17
18-Mar	05:37	17:40	05:59	07:13
19-Mar	05:34	17:42	05:59	07:06
20-Mar	05:32	17:44	06:00	07:05
21-Mar	05:29	17:46	06:00	07:03
22-Mar	05:27	17:48	06:02	07:01
23-Mar	05:25	17:50	06:04	06:59
24-Mar	05:22	17:51	06:04	06:58
25-Mar	05:20	17:53	06:05	06:57
26-Mar	05:17	17:55	06:05	06:56
27-Mar	05:15	17:57	06:06	06:54
28-Mar	05:13	17:59	06:06	06:53
29-Mar	05:10	18:00	06:07	06:51
30-Mar	05:08	18:02	06:08	06:49
31-Mar	05:05	18:04	06:09	06:47
01-Apr	05:03	18:06	06:11	06:44
02-Apr	05:01	18:08	06:13	06:41
03-Apr	04:58	18:09	06:16	06:37
04-Apr	04:56	18:11	06:21	06:32
15-Apr	04:30	18:31	04:44	05:00
16-Apr	04:28	18:33	04:40	05:03
17-Apr	04:26	18:35	04:38	05:05
18-Apr	04:24	18:36	04:36	05:07
19-Apr	04:21	18:38	04:34	05:08
20-Apr	04:19	18:40	04:32	05:09
21-Apr	04:17	18:42	04:30	05:10
22-Apr	04:15	18:44	04:29	05:11
23-Apr	04:13	18:45	04:28	05:11
24-Apr	04:10	18:47	04:27	05:12
25-Apr	04:08	18:49	04:26	05:12
26-Apr	04:06	18:51	04:25	05:13
27-Apr	04:04	18:52	04:24	05:13
28-Apr	04:02	18:54	04:24	05:13
29-Apr	04:00	18:56	04:23	05:13

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
30-Apr	03:58	18:58	04:23	05:13
01-May	03:56	19:00	04:22	05:13
02-May	03:54	19:01	04:22	05:13
03-May	03:52	19:03	04:22	05:13
04-May	03:50	19:05	04:01	04:09
04-May	03:50	19:05	04:22	05:13
05-May	03:48	19:07	03:57	04:12
05-May	03:48	19:07	04:22	05:12
06-May	03:46	19:08	03:55	04:14
06-May	03:46	19:08	04:22	05:12
07-May	03:44	19:10	03:53	04:16
07-May	03:44	19:10	04:22	05:12
08-May	03:43	19:12	03:52	04:17
08-May	03:43	19:12	04:22	05:11
09-May	03:41	19:13	03:50	04:18
09-May	03:41	19:13	04:23	05:11
10-May	03:39	19:15	03:49	04:19
10-May	03:39	19:15	04:23	05:10
11-May	03:37	19:17	03:48	04:19
11-May	03:37	19:17	04:23	05:10
12-May	03:36	19:18	03:45	04:20
12-May	03:36	19:18	04:24	05:09
13-May	03:34	19:20	03:44	04:20
13-May	03:34	19:20	04:24	05:08
14-May	03:32	19:22	03:42	04:21
14-May	03:32	19:22	04:25	05:08
15-May	03:31	19:23	03:41	04:21
15-May	03:31	19:23	04:26	05:07
16-May	03:29	19:25	03:39	04:21
16-May	03:29	19:25	04:26	05:06
17-May	03:28	19:26	03:38	04:21
17-May	03:28	19:26	04:27	05:05
18-May	03:26	19:28	03:38	04:22
18-May	03:26	19:28	04:28	05:05
19-May	03:25	19:30	03:37	04:22
19-May	03:25	19:30	04:29	05:04
20-May	03:23	19:31	03:36	04:22
20-May	03:23	19:31	04:30	05:03
21-May	03:22	19:33	03:36	04:22
21-May	03:22	19:33	04:31	05:01
22-May	03:20	19:34	03:35	04:22
22-May	03:20	19:34	04:33	05:00
23-May	03:19	19:36	03:35	04:22
23-May	03:19	19:36	04:34	04:59
24-May	03:18	19:37	03:35	04:22
24-May	03:18	19:37	04:36	04:57
25-May	03:17	19:38	03:35	04:21
25-May	03:17	19:38	04:38	04:54
26-May	03:16	19:40	03:35	04:21

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
26-May	03:16	19:40	04:41	04:51
27-May	03:14	19:41	03:26	03:34
27-May	03:14	19:41	03:34	04:21
28-May	03:13	19:42	03:24	04:21
29-May	03:12	19:44	03:22	04:21
30-May	03:11	19:45	03:21	04:21
31-May	03:10	19:46	03:20	04:21
01-Jun	03:10	19:47	03:19	04:20
02-Jun	03:09	19:48	03:19	04:20
03-Jun	03:08	19:49	03:18	04:20
04-Jun	03:07	19:50	03:17	04:20
05-Jun	03:06	19:51	03:17	04:19
06-Jun	03:06	19:52	03:16	04:19
07-Jun	03:05	19:53	03:16	04:19
08-Jun	03:05	19:54	03:15	04:19
09-Jun	03:04	19:55	03:15	04:18
10-Jun	03:04	19:56	03:15	04:18
11-Jun	03:04	19:57	03:14	04:18
12-Jun	03:03	19:57	03:14	04:18
13-Jun	03:03	19:58	03:14	04:18
14-Jun	03:03	19:58	03:13	04:19
15-Jun	03:03	19:59	03:13	04:19
16-Jun	03:03	19:59	03:13	04:19
17-Jun	03:03	20:00	03:13	04:19
18-Jun	03:03	20:00	03:13	04:19
19-Jun	03:03	20:00	03:13	04:20
20-Jun	03:03	20:01	03:14	04:20
21-Jun	03:03	20:01	03:14	04:20
22-Jun	03:03	20:01	03:14	04:20
23-Jun	03:04	20:01	03:14	04:20
24-Jun	03:04	20:01	03:15	04:21
25-Jun	03:04	20:01	03:15	04:21
26-Jun	03:05	20:01	03:16	04:21
27-Jun	03:05	20:01	03:16	04:21
28-Jun	03:06	20:01	03:17	04:22
29-Jun	03:07	20:00	03:17	04:22
30-Jun	03:07	20:00	03:18	04:22
01-Jul	03:08	20:00	03:19	04:22
02-Jul	03:09	19:59	03:19	04:23
03-Jul	03:10	19:59	03:20	04:24
04-Jul	03:10	19:58	03:21	04:24
05-Jul	03:11	19:58	03:22	04:25
06-Jul	03:12	19:57	03:22	04:25
07-Jul	03:13	19:56	03:23	04:26
08-Jul	03:14	19:56	03:24	04:27
09-Jul	03:15	19:55	03:25	04:27
10-Jul	03:16	19:54	03:26	04:28
11-Jul	03:18	19:53	03:27	04:28
12-Jul	03:19	19:52	03:29	04:29

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
13-Jul	03:20	19:51	03:30	04:29
14-Jul	03:21	19:50	03:31	04:30
15-Jul	03:22	19:49	03:33	03:44
15-Jul	03:22	19:49	03:43	04:30
16-Jul	03:24	19:48	03:36	03:41
16-Jul	03:24	19:48	03:43	04:30
16-Jul	03:24	19:48	04:54	04:57
17-Jul	03:25	19:47	03:44	04:31
17-Jul	03:25	19:47	04:49	05:02
18-Jul	03:26	19:45	03:44	04:31
18-Jul	03:26	19:45	04:46	05:05
19-Jul	03:28	19:44	03:44	04:31
19-Jul	03:28	19:44	04:45	05:07
20-Jul	03:29	19:43	03:45	04:31
20-Jul	03:29	19:43	04:43	05:09
21-Jul	03:31	19:41	03:45	04:31
21-Jul	03:31	19:41	04:42	05:11
22-Jul	03:32	19:40	03:46	04:32
22-Jul	03:32	19:40	04:41	05:12
23-Jul	03:34	19:39	03:47	04:32
23-Jul	03:34	19:39	04:40	05:13
24-Jul	03:35	19:37	03:47	04:32
24-Jul	03:35	19:37	04:39	05:14
25-Jul	03:37	19:36	03:48	04:32
25-Jul	03:37	19:36	04:38	05:15
26-Jul	03:38	19:34	03:49	04:31
26-Jul	03:38	19:34	04:37	05:16
27-Jul	03:40	19:32	03:50	04:31
27-Jul	03:40	19:32	04:36	05:17
28-Jul	03:41	19:31	03:51	04:31
28-Jul	03:41	19:31	04:35	05:17
29-Jul	03:43	19:29	03:53	04:31
29-Jul	03:43	19:29	04:35	05:18
30-Jul	03:45	19:27	03:54	04:30
30-Jul	03:45	19:27	04:34	05:19
31-Jul	03:46	19:26	03:56	04:30
31-Jul	03:46	19:26	04:34	05:19
01-Aug	03:48	19:24	03:58	04:29
01-Aug	03:48	19:24	04:33	05:20
02-Aug	03:49	19:22	03:59	04:28
02-Aug	03:49	19:22	04:33	05:20
03-Aug	03:51	19:20	04:00	04:27
03-Aug	03:51	19:20	04:32	05:21
04-Aug	03:53	19:19	04:02	04:26
04-Aug	03:53	19:19	04:32	05:21
05-Aug	03:54	19:17	04:03	04:25
05-Aug	03:54	19:17	04:31	05:21
06-Aug	03:56	19:15	04:05	04:23
06-Aug	03:56	19:15	04:31	05:21

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
07-Aug	03:58	19:13	04:07	04:21
07-Aug	03:58	19:13	04:31	05:21
08-Aug	03:59	19:11	04:11	04:16
08-Aug	03:59	19:11	04:31	05:21
09-Aug	04:01	19:09	04:31	05:21
10-Aug	04:03	19:07	04:30	05:21
11-Aug	04:04	19:05	04:30	05:21
12-Aug	04:06	19:03	04:30	05:21
13-Aug	04:08	19:01	04:31	05:20
14-Aug	04:10	18:59	04:31	05:20
15-Aug	04:11	18:57	04:31	05:20
16-Aug	04:13	18:54	04:31	05:19
17-Aug	04:15	18:52	04:32	05:18
18-Aug	04:16	18:50	04:32	05:17
19-Aug	04:18	18:48	04:33	05:17
20-Aug	04:20	18:46	04:34	05:15
21-Aug	04:22	18:44	04:35	05:14
22-Aug	04:23	18:41	04:36	05:13
23-Aug	04:25	18:39	04:37	05:11
24-Aug	04:27	18:37	04:39	05:10
25-Aug	04:28	18:35	04:41	05:08
26-Aug	04:30	18:32	04:43	05:05
27-Aug	04:32	18:30	04:46	05:02
07-Sep	04:51	18:04	06:15	06:27
08-Sep	04:52	18:02	06:10	06:32
09-Sep	04:54	17:59	06:07	06:34
10-Sep	04:56	17:57	06:04	06:37
11-Sep	04:58	17:54	06:02	06:39
12-Sep	04:59	17:52	06:00	06:41
13-Sep	05:01	17:50	05:58	06:42
14-Sep	05:03	17:47	05:57	06:43
15-Sep	05:04	17:45	05:55	06:44
16-Sep	05:06	17:42	05:54	06:45
17-Sep	05:08	17:40	05:53	06:45
18-Sep	05:10	17:37	05:52	06:46
19-Sep	05:11	17:35	05:51	06:46
20-Sep	05:13	17:33	05:49	06:48
21-Sep	05:15	17:30	05:47	06:49
22-Sep	05:16	17:28	05:45	06:50
23-Sep	05:18	17:25	05:44	06:51
24-Sep	05:20	17:23	05:43	06:55
25-Sep	05:22	17:21	05:42	07:00
26-Sep	05:23	17:18	05:42	07:03
27-Sep	05:25	17:16	05:41	07:06
28-Sep	05:27	17:13	05:41	07:08
29-Sep	05:29	17:11	05:41	07:09
30-Sep	05:30	17:08	05:41	07:11
01-Oct	05:32	17:06	05:42	07:12
02-Oct	05:34	17:04	05:42	07:13

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
03-Oct	05:36	17:01	05:43	07:13
04-Oct	05:37	16:59	05:45	07:14
04-Oct	05:37	16:59	07:23	07:37
05-Oct	05:39	16:57	05:47	07:14
05-Oct	05:39	16:57	07:18	07:42
06-Oct	05:41	16:54	05:49	07:14
06-Oct	05:41	16:54	07:15	07:45
07-Oct	05:43	16:52	05:55	07:47
08-Oct	05:45	16:50	05:56	07:49
09-Oct	05:46	16:47	05:58	07:50
10-Oct	05:48	16:45	06:00	07:52
11-Oct	05:50	16:43	06:03	07:53
12-Oct	05:52	16:40	06:04	07:54
13-Oct	05:54	16:38	06:05	07:55
14-Oct	05:55	16:36	06:07	07:55
15-Oct	05:57	16:33	06:09	07:56
16-Oct	05:59	16:31	06:11	07:56
17-Oct	06:01	16:29	06:14	07:58
18-Oct	06:03	16:27	06:19	08:01
19-Oct	06:05	16:25	06:20	08:04
20-Oct	06:06	16:22	06:21	08:06
21-Oct	06:08	16:20	06:22	08:08
22-Oct	06:10	16:18	06:23	08:09
23-Oct	06:12	16:16	06:25	08:11
24-Oct	06:14	16:14	06:26	08:12
25-Oct	06:16	16:12	06:28	08:13
26-Oct	06:18	16:10	06:30	08:14
27-Oct	06:19	16:08	06:32	08:15
28-Oct	06:21	16:06	06:35	08:15
29-Oct	06:23	16:04	06:39	06:52
29-Oct	06:23	16:04	06:53	08:16
30-Oct	06:25	16:02	06:54	08:17
31-Oct	06:27	16:00	06:54	08:17
01-Nov	06:29	15:58	06:54	08:17
02-Nov	06:31	15:56	06:55	08:18
03-Nov	06:33	15:54	06:55	08:20
04-Nov	06:35	15:52	06:56	08:21
05-Nov	06:36	15:50	06:57	08:23
06-Nov	06:38	15:48	06:57	08:24
07-Nov	06:40	15:47	06:58	08:24
08-Nov	06:42	15:45	06:59	08:25
09-Nov	06:44	15:43	07:00	08:26
10-Nov	06:46	15:42	07:01	08:27
11-Nov	06:48	15:40	07:01	08:27
12-Nov	06:50	15:38	07:02	08:24
13-Nov	06:51	15:37	07:03	08:24
14-Nov	06:53	15:35	07:04	08:25
15-Nov	06:55	15:34	07:06	08:25
15-Nov	06:55	15:34	09:18	09:27

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
16-Nov	06:57	15:32	07:07	08:26
16-Nov	06:57	15:32	09:13	09:32
17-Nov	06:59	15:31	07:09	08:26
17-Nov	06:59	15:31	08:43	08:56
17-Nov	06:59	15:31	09:10	09:35
18-Nov	07:00	15:30	07:11	08:26
18-Nov	07:00	15:30	08:40	08:59
18-Nov	07:00	15:30	09:08	09:37
18-Nov	07:00	15:30	09:38	09:45
19-Nov	07:02	15:28	07:13	08:26
19-Nov	07:02	15:28	08:38	09:01
19-Nov	07:02	15:28	09:06	09:50
20-Nov	07:04	15:27	07:15	08:27
20-Nov	07:04	15:27	08:37	09:04
20-Nov	07:04	15:27	09:05	09:53
21-Nov	07:06	15:26	07:16	08:27
21-Nov	07:06	15:26	08:35	09:55
22-Nov	07:07	15:25	07:18	08:27
22-Nov	07:07	15:25	08:34	09:57
23-Nov	07:09	15:24	07:19	08:27
23-Nov	07:09	15:24	08:34	09:59
24-Nov	07:11	15:23	07:21	08:27
24-Nov	07:11	15:23	08:33	10:01
25-Nov	07:12	15:22	07:23	08:28
25-Nov	07:12	15:22	08:32	10:02
26-Nov	07:14	15:21	07:24	08:28
26-Nov	07:14	15:21	08:32	10:04
27-Nov	07:16	15:20	07:26	08:28
27-Nov	07:16	15:20	08:32	10:05
28-Nov	07:17	15:19	07:27	08:28
28-Nov	07:17	15:19	08:31	10:02
29-Nov	07:19	15:18	07:29	08:28
29-Nov	07:19	15:18	08:31	10:03
30-Nov	07:20	15:17	07:31	08:28
30-Nov	07:20	15:17	08:31	10:04
01-Dec	07:22	15:16	07:34	08:28
01-Dec	07:22	15:16	08:31	10:05
02-Dec	07:23	15:16	07:38	08:28
02-Dec	07:23	15:16	08:31	10:06
03-Dec	07:25	15:15	07:39	08:28
03-Dec	07:25	15:15	08:31	10:07
04-Dec	07:26	15:15	07:40	08:29
04-Dec	07:26	15:15	08:31	10:08
05-Dec	07:27	15:14	07:41	08:29
05-Dec	07:27	15:14	08:31	10:09
06-Dec	07:29	15:14	07:41	08:30
06-Dec	07:29	15:14	08:32	10:10
07-Dec	07:30	15:13	07:42	08:30
07-Dec	07:30	15:13	08:32	10:10

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
08-Dec	07:31	15:13	07:43	08:29
08-Dec	07:31	15:13	08:32	10:11
09-Dec	07:32	15:13	07:44	08:29
09-Dec	07:32	15:13	08:32	10:12
10-Dec	07:33	15:13	07:45	08:29
10-Dec	07:33	15:13	08:33	10:12
11-Dec	07:34	15:12	07:46	08:30
11-Dec	07:34	15:12	08:33	10:13
12-Dec	07:36	15:12	07:46	08:30
12-Dec	07:36	15:12	08:33	10:14
13-Dec	07:36	15:12	07:47	08:30
13-Dec	07:36	15:12	08:34	10:14
14-Dec	07:37	15:12	07:48	08:30
14-Dec	07:37	15:12	08:34	10:15
15-Dec	07:38	15:12	07:49	08:31
15-Dec	07:38	15:12	08:35	10:16
16-Dec	07:39	15:13	07:49	08:31
16-Dec	07:39	15:13	08:35	10:16
17-Dec	07:40	15:13	07:50	08:32
17-Dec	07:40	15:13	08:36	10:17
18-Dec	07:41	15:13	07:51	08:32
18-Dec	07:41	15:13	08:36	10:17
19-Dec	07:41	15:14	07:52	08:33
19-Dec	07:41	15:14	08:37	10:18
20-Dec	07:42	15:14	07:52	08:33
20-Dec	07:42	15:14	08:37	10:18
21-Dec	07:42	15:14	07:53	08:34
21-Dec	07:42	15:14	08:37	10:19
22-Dec	07:43	15:15	07:53	08:34
22-Dec	07:43	15:15	08:38	10:19
23-Dec	07:43	15:16	07:54	08:35
23-Dec	07:43	15:16	08:39	10:20
24-Dec	07:44	15:16	07:54	08:35
24-Dec	07:44	15:16	08:39	10:20
25-Dec	07:44	15:17	07:54	08:36
25-Dec	07:44	15:17	08:40	10:21
26-Dec	07:44	15:18	07:54	08:36
26-Dec	07:44	15:18	08:40	10:21
27-Dec	07:44	15:19	07:55	08:37
27-Dec	07:44	15:19	08:41	10:22
28-Dec	07:44	15:19	07:55	08:37
28-Dec	07:44	15:19	08:41	10:22
29-Dec	07:44	15:20	07:55	08:38
29-Dec	07:44	15:20	08:42	10:22
30-Dec	07:44	15:21	07:55	08:39
30-Dec	07:44	15:21	08:42	10:23
31-Dec	07:44	15:22	07:55	08:39
31-Dec	07:44	15:22	08:43	10:23

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
Turbine 2				
Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
01-Jan	07:44	15:23	07:56	09:14
02-Jan	07:44	15:24	07:56	09:14
03-Jan	07:44	15:25	07:56	09:14
04-Jan	07:44	15:26	07:56	09:13
05-Jan	07:43	15:27	07:56	09:13
06-Jan	07:43	15:29	07:56	09:13
07-Jan	07:43	15:30	07:56	09:17
08-Jan	07:42	15:31	07:56	09:16
09-Jan	07:42	15:33	07:56	09:16
10-Jan	07:41	15:34	07:56	09:16
11-Jan	07:40	15:36	07:56	09:16
12-Jan	07:40	15:37	07:52	09:16
13-Jan	07:39	15:39	07:50	09:15
14-Jan	07:38	15:40	07:49	09:14
15-Jan	07:37	15:42	07:48	09:13
16-Jan	07:36	15:44	07:47	09:12
17-Jan	07:35	15:45	07:46	09:11
18-Jan	07:34	15:47	07:45	09:10
19-Jan	07:33	15:49	07:44	09:10
20-Jan	07:32	15:51	07:43	09:09
21-Jan	07:31	15:52	07:42	09:08
22-Jan	07:29	15:54	07:41	08:35
22-Jan	07:29	15:54	08:34	09:08
23-Jan	07:28	15:56	07:40	08:35
23-Jan	07:28	15:56	08:36	09:07
24-Jan	07:27	15:58	07:39	08:35
24-Jan	07:27	15:58	08:37	09:05
25-Jan	07:26	16:00	07:39	08:39
25-Jan	07:26	16:00	08:40	09:03
26-Jan	07:24	16:01	07:38	08:39
26-Jan	07:24	16:01	08:43	09:01
27-Jan	07:23	16:03	07:38	08:39
28-Jan	07:21	16:05	07:38	08:39
29-Jan	07:20	16:07	07:37	08:39
30-Jan	07:18	16:09	07:37	08:38
31-Jan	07:17	16:11	07:37	08:38
01-Feb	07:15	16:13	07:37	08:37
02-Feb	07:13	16:15	07:37	08:36
03-Feb	07:12	16:17	07:37	08:35
04-Feb	07:10	16:19	07:37	08:34
05-Feb	07:08	16:21	07:37	08:32
06-Feb	07:06	16:23	07:37	08:30
07-Feb	07:05	16:25	07:37	08:28
08-Feb	07:03	16:26	07:37	08:19
08-Feb	07:03	16:26	08:19	08:22
09-Feb	07:01	16:28	07:38	08:19
10-Feb	06:59	16:30	07:38	08:18

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
11-Feb	06:57	16:32	07:39	08:18
12-Feb	06:55	16:34	07:40	08:17
13-Feb	06:53	16:36	07:41	08:16
14-Feb	06:51	16:38	07:42	08:14
15-Feb	06:49	16:40	07:43	08:13
16-Feb	06:47	16:42	07:45	08:11
17-Feb	06:45	16:44	07:47	08:08
18-Feb	06:43	16:46	07:49	08:06
19-Feb	06:41	16:48	07:54	08:00
28-Feb	06:21	17:05	06:35	06:44
29-02	06:19	17:07	06:30	06:48
01-Mar	06:17	17:09	06:27	06:51
02-Mar	06:14	17:11	06:25	06:53
03-Mar	06:12	17:13	06:23	06:54
04-Mar	06:10	17:15	06:21	06:55
05-Mar	06:07	17:17	06:19	06:56
06-Mar	06:05	17:18	06:18	06:57
07-Mar	06:03	17:20	06:17	06:57
08-Mar	06:00	17:22	06:16	06:57
09-Mar	05:58	17:24	06:15	06:58
10-Mar	05:56	17:26	06:14	06:58
11-Mar	05:53	17:28	06:13	06:57
12-Mar	05:51	17:30	06:13	06:57
13-Mar	05:49	17:31	06:13	06:57
14-Mar	05:46	17:33	06:12	06:56
15-Mar	05:44	17:35	06:12	06:56
16-Mar	05:41	17:37	06:12	06:55
17-Mar	05:39	17:39	06:12	06:54
18-Mar	05:37	17:40	06:13	06:53
19-Mar	05:34	17:42	06:13	06:52
20-Mar	05:32	17:44	06:14	06:50
21-Mar	05:29	17:46	06:15	06:49
22-Mar	05:27	17:48	06:16	06:46
23-Mar	05:25	17:50	06:17	06:44
24-Mar	05:22	17:51	06:19	06:41
25-Mar	05:20	17:53	06:22	06:37
27-Mar	05:15	17:57	05:25	05:38
28-Mar	05:13	17:59	05:21	05:41
29-Mar	05:10	18:00	05:18	05:43
30-Mar	05:08	18:02	05:16	05:44
31-Mar	05:05	18:04	05:13	05:45
01-Apr	05:03	18:06	05:11	05:46
02-Apr	05:01	18:08	05:09	05:47
03-Apr	04:58	18:09	05:08	05:47
04-Apr	04:56	18:11	05:07	05:47
05-Apr	04:54	18:13	05:06	05:47
06-Apr	04:51	18:15	05:05	05:47
07-Apr	04:49	18:17	05:05	05:47
08-Apr	04:46	18:18	05:05	05:47

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
09-Apr	04:44	18:20	05:04	05:47
10-Apr	04:42	18:22	05:04	05:46
11-Apr	04:39	18:24	05:04	05:45
12-Apr	04:37	18:26	05:04	05:45
13-Apr	04:35	18:27	05:05	05:44
14-Apr	04:33	18:29	04:41	04:55
14-Apr	04:33	18:29	05:05	05:43
15-Apr	04:30	18:31	04:38	04:58
15-Apr	04:30	18:31	05:06	05:42
16-Apr	04:28	18:33	04:36	04:59
16-Apr	04:28	18:33	05:07	05:40
17-Apr	04:26	18:35	04:34	05:01
17-Apr	04:26	18:35	05:09	05:39
18-Apr	04:24	18:36	04:32	05:02
18-Apr	04:24	18:36	05:10	05:37
19-Apr	04:21	18:38	04:29	05:02
19-Apr	04:21	18:38	05:12	05:34
20-Apr	04:19	18:40	04:27	05:03
20-Apr	04:19	18:40	05:14	05:31
21-Apr	04:17	18:42	04:26	05:03
21-Apr	04:17	18:42	05:18	05:27
22-Apr	04:15	18:44	04:24	05:03
23-Apr	04:13	18:45	04:21	05:04
24-Apr	04:10	18:47	04:19	05:04
25-Apr	04:08	18:49	04:16	05:04
26-Apr	04:06	18:51	04:14	05:03
27-Apr	04:04	18:52	04:12	05:03
28-Apr	04:02	18:54	04:10	05:03
29-Apr	04:00	18:56	04:09	05:02
30-Apr	03:58	18:58	04:08	05:02
01-May	03:56	19:00	04:07	05:02
02-May	03:54	19:01	04:06	05:01
03-May	03:52	19:03	04:06	05:01
04-May	03:50	19:05	04:05	05:00
05-May	03:48	19:07	04:05	05:00
06-May	03:46	19:08	04:05	04:59
07-May	03:44	19:10	04:05	04:59
08-May	03:43	19:12	04:05	04:58
09-May	03:41	19:13	04:05	04:57
10-May	03:39	19:15	04:06	04:56
11-May	03:37	19:17	04:06	04:55
12-May	03:36	19:18	04:07	04:54
13-May	03:34	19:20	04:07	04:52
14-May	03:32	19:22	04:08	04:51
15-May	03:31	19:23	04:09	04:33
15-May	03:31	19:23	04:32	04:49
16-May	03:29	19:25	04:10	04:31
16-May	03:29	19:25	04:34	04:46
17-May	03:28	19:26	04:12	04:27

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
18-May	03:26	19:28	04:15	04:23
25-Jul	03:37	19:36	04:24	04:34
26-Jul	03:38	19:34	04:22	04:39
26-Jul	03:38	19:34	04:48	04:53
27-Jul	03:40	19:32	04:20	04:42
27-Jul	03:40	19:32	04:43	04:57
28-Jul	03:41	19:31	04:19	05:00
29-Jul	03:43	19:29	04:18	05:02
30-Jul	03:45	19:27	04:17	05:03
31-Jul	03:46	19:26	04:16	05:04
01-Aug	03:48	19:24	04:16	05:05
02-Aug	03:49	19:22	04:15	05:06
03-Aug	03:51	19:20	04:15	05:07
04-Aug	03:53	19:19	04:15	05:08
05-Aug	03:54	19:17	04:14	05:08
06-Aug	03:56	19:15	04:14	05:09
07-Aug	03:58	19:13	04:14	05:09
08-Aug	03:59	19:11	04:14	05:09
09-Aug	04:01	19:09	04:14	05:09
10-Aug	04:03	19:07	04:15	05:10
11-Aug	04:04	19:05	04:15	05:10
12-Aug	04:06	19:03	04:16	05:10
13-Aug	04:08	19:01	04:16	05:10
14-Aug	04:10	18:59	04:18	05:10
15-Aug	04:11	18:57	04:19	05:10
16-Aug	04:13	18:54	04:21	05:10
17-Aug	04:15	18:52	04:23	05:10
18-Aug	04:16	18:50	04:24	05:09
19-Aug	04:18	18:48	04:27	05:09
20-Aug	04:20	18:46	04:29	05:08
21-Aug	04:22	18:44	04:30	05:08
21-Aug	04:22	18:44	05:21	05:32
22-Aug	04:23	18:41	04:31	05:07
22-Aug	04:23	18:41	05:18	05:36
23-Aug	04:25	18:39	04:33	05:06
23-Aug	04:25	18:39	05:15	05:38
24-Aug	04:27	18:37	04:35	05:04
24-Aug	04:27	18:37	05:13	05:40
25-Aug	04:28	18:35	04:37	05:03
25-Aug	04:28	18:35	05:11	05:41
26-Aug	04:30	18:32	04:38	05:01
26-Aug	04:30	18:32	05:09	05:42
27-Aug	04:32	18:30	04:40	04:59
27-Aug	04:32	18:30	05:08	05:43
28-Aug	04:34	18:28	04:43	04:56
28-Aug	04:34	18:28	05:06	05:44
29-Aug	04:35	18:25	05:05	05:44
30-Aug	04:37	18:23	05:04	05:45
31-Aug	04:39	18:21	05:03	05:45

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
01-Sep	04:40	18:18	05:03	05:45
02-Sep	04:42	18:16	05:02	05:45
03-Sep	04:44	18:14	05:02	05:44
04-Sep	04:46	18:11	05:02	05:44
05-Sep	04:47	18:09	05:02	05:44
06-Sep	04:49	18:06	05:02	05:43
07-Sep	04:51	18:04	05:02	05:42
08-Sep	04:52	18:02	05:02	05:41
09-Sep	04:54	17:59	05:03	05:40
10-Sep	04:56	17:57	05:04	05:39
11-Sep	04:58	17:54	05:05	05:38
12-Sep	04:59	17:52	05:07	05:36
13-Sep	05:01	17:50	05:09	05:34
14-Sep	05:03	17:47	05:11	05:32
15-Sep	05:04	17:45	05:14	05:28
17-Sep	05:08	17:40	06:11	06:26
18-Sep	05:10	17:37	06:07	06:28
19-Sep	05:11	17:35	06:05	06:31
20-Sep	05:13	17:33	06:03	06:33
21-Sep	05:15	17:30	06:01	06:34
22-Sep	05:16	17:28	05:59	06:35
23-Sep	05:18	17:25	05:58	06:36
24-Sep	05:20	17:23	05:57	06:37
25-Sep	05:22	17:21	05:56	06:37
26-Sep	05:23	17:18	05:55	06:38
27-Sep	05:25	17:16	05:54	06:38
28-Sep	05:27	17:13	05:54	06:38
29-Sep	05:29	17:11	05:53	06:38
30-Sep	05:30	17:08	05:53	06:37
01-Oct	05:32	17:06	05:53	06:37
02-Oct	05:34	17:04	05:53	06:37
03-Oct	05:36	17:01	05:53	06:36
04-Oct	05:37	16:59	05:53	06:35
05-Oct	05:39	16:57	05:54	06:35
06-Oct	05:41	16:54	05:54	06:34
07-Oct	05:43	16:52	05:55	06:33
08-Oct	05:45	16:50	05:56	06:31
09-Oct	05:46	16:47	05:57	06:30
10-Oct	05:48	16:45	05:59	06:28
11-Oct	05:50	16:43	06:01	06:26
12-Oct	05:52	16:40	06:03	06:24
13-Oct	05:54	16:38	06:06	06:20
23-Oct	06:12	16:16	07:22	07:34
24-Oct	06:14	16:14	07:18	07:37
25-Oct	06:16	16:12	07:16	07:39
26-Oct	06:18	16:10	07:14	07:42
27-Oct	06:19	16:08	07:12	07:43
28-Oct	06:21	16:06	07:11	07:45
29-Oct	06:23	16:04	07:10	07:46

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
30-Oct	06:25	16:02	07:09	07:47
31-Oct	06:27	16:00	07:08	07:47
01-Nov	06:29	15:58	07:08	07:48
02-Nov	06:31	15:56	07:07	07:48
03-Nov	06:33	15:54	07:07	07:55
04-Nov	06:35	15:52	07:07	07:58
05-Nov	06:36	15:50	07:06	08:00
06-Nov	06:38	15:48	07:06	08:03
07-Nov	06:40	15:47	07:06	08:04
08-Nov	06:42	15:45	07:07	08:06
09-Nov	06:44	15:43	07:07	08:07
10-Nov	06:46	15:42	07:07	08:08
11-Nov	06:48	15:40	07:08	08:09
12-Nov	06:50	15:38	07:08	08:10
13-Nov	06:51	15:37	07:09	08:10
14-Nov	06:53	15:35	07:09	08:11
15-Nov	06:55	15:34	07:10	08:11
16-Nov	06:57	15:32	07:11	08:12
16-Nov	06:57	15:32	08:15	08:34
17-Nov	06:59	15:31	07:12	08:12
17-Nov	06:59	15:31	08:12	08:37
18-Nov	07:00	15:30	07:13	08:09
18-Nov	07:00	15:30	08:10	08:39
19-Nov	07:02	15:28	07:14	08:09
19-Nov	07:02	15:28	08:09	08:41
20-Nov	07:04	15:27	07:15	08:42
21-Nov	07:06	15:26	07:17	08:44
22-Nov	07:07	15:25	07:19	08:45
23-Nov	07:09	15:24	07:21	08:46
24-Nov	07:11	15:23	07:22	08:47
25-Nov	07:12	15:22	07:23	08:49
26-Nov	07:14	15:21	07:25	08:51
27-Nov	07:16	15:20	07:27	08:52
28-Nov	07:17	15:19	07:29	08:54
29-Nov	07:19	15:18	07:31	08:55
30-Nov	07:20	15:17	07:34	08:56
01-Dec	07:22	15:16	07:38	08:58
02-Dec	07:23	15:16	07:39	08:59
03-Dec	07:25	15:15	07:39	09:00
04-Dec	07:26	15:15	07:40	09:00
05-Dec	07:27	15:14	07:41	09:01
06-Dec	07:29	15:14	07:42	08:58
07-Dec	07:30	15:13	07:43	09:00
08-Dec	07:31	15:13	07:44	09:01
09-Dec	07:32	15:13	07:45	09:02
10-Dec	07:33	15:13	07:46	09:03
11-Dec	07:34	15:12	07:47	09:04
12-Dec	07:36	15:12	07:48	09:05
13-Dec	07:36	15:12	07:48	09:06

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
14-Dec	07:37	15:12	07:49	09:06
15-Dec	07:38	15:12	07:50	09:07
16-Dec	07:39	15:13	07:51	09:08
17-Dec	07:40	15:13	07:52	09:08
18-Dec	07:41	15:13	07:52	09:09
19-Dec	07:41	15:14	07:53	09:10
20-Dec	07:42	15:14	07:54	09:10
21-Dec	07:42	15:14	07:54	09:11
22-Dec	07:43	15:15	07:55	09:11
23-Dec	07:43	15:16	07:55	09:12
24-Dec	07:44	15:16	07:55	09:12
25-Dec	07:44	15:17	07:56	09:12
26-Dec	07:44	15:18	07:56	09:13
27-Dec	07:44	15:19	07:56	09:13
28-Dec	07:44	15:19	07:56	09:13
29-Dec	07:44	15:20	07:56	09:13
30-Dec	07:44	15:21	07:56	09:14
31-Dec	07:44	15:22	07:56	09:14

Turbine 3

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
01-Jan	07:44	15:23	08:19	08:48
02-Jan	07:44	15:24	08:20	08:48
03-Jan	07:44	15:25	08:20	08:48
04-Jan	07:44	15:26	07:56	07:58
04-Jan	07:44	15:26	08:21	08:49
05-Jan	07:43	15:27	07:53	08:02
05-Jan	07:43	15:27	08:22	08:49
06-Jan	07:43	15:29	07:52	08:03
06-Jan	07:43	15:29	08:22	08:49
07-Jan	07:43	15:30	07:52	08:05
07-Jan	07:43	15:30	08:23	08:49
08-Jan	07:42	15:31	07:51	08:06
08-Jan	07:42	15:31	08:24	08:49
09-Jan	07:42	15:33	07:50	08:08
09-Jan	07:42	15:33	08:25	08:49
10-Jan	07:41	15:34	07:50	08:09
10-Jan	07:41	15:34	08:26	08:49
11-Jan	07:40	15:36	07:49	08:10
11-Jan	07:40	15:36	08:27	08:49
12-Jan	07:40	15:37	07:49	08:11
12-Jan	07:40	15:37	08:28	08:48
13-Jan	07:39	15:39	07:48	08:12
13-Jan	07:39	15:39	08:29	08:48
14-Jan	07:38	15:40	07:48	08:13
14-Jan	07:38	15:40	08:30	08:47
15-Jan	07:37	15:42	07:48	08:14
15-Jan	07:37	15:42	08:32	08:46
16-Jan	07:36	15:44	07:48	08:15

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
16-Jan	07:36	15:44	08:35	08:44
17-Jan	07:35	15:45	07:47	08:15
18-Jan	07:34	15:47	07:47	08:16
19-Jan	07:33	15:49	07:47	08:17
20-Jan	07:32	15:51	07:47	08:17
21-Jan	07:31	15:52	07:47	08:17
22-Jan	07:29	15:54	07:47	08:18
23-Jan	07:28	15:56	07:48	08:18
24-Jan	07:27	15:58	07:48	08:18
25-Jan	07:26	16:00	07:48	08:19
26-Jan	07:24	16:01	07:48	08:19
27-Jan	07:23	16:03	07:49	08:18
28-Jan	07:21	16:05	07:49	08:18
29-Jan	07:20	16:07	07:50	08:18
30-Jan	07:18	16:09	07:51	08:18
31-Jan	07:17	16:11	07:52	08:17
01-Feb	07:15	16:13	07:53	08:16
02-Feb	07:13	16:15	07:54	08:15
03-Feb	07:12	16:17	07:56	08:13
04-Feb	07:10	16:19	07:58	08:11
05-Feb	07:08	16:21	08:02	08:07
10-Feb	06:59	16:30	07:09	07:18
11-Feb	06:57	16:32	07:06	07:21
12-Feb	06:55	16:34	07:04	07:23
13-Feb	06:53	16:36	07:02	07:24
14-Feb	06:51	16:38	07:00	07:25
15-Feb	06:49	16:40	06:59	07:26
16-Feb	06:47	16:42	06:58	07:27
17-Feb	06:45	16:44	06:57	07:27
18-Feb	06:43	16:46	06:57	07:28
19-Feb	06:41	16:48	06:56	07:28
20-Feb	06:39	16:50	06:56	07:28
21-Feb	06:37	16:52	06:56	07:27
22-Feb	06:34	16:54	06:56	07:27
23-Feb	06:32	16:56	06:56	07:26
24-Feb	06:30	16:58	06:57	07:26
25-Feb	06:28	17:00	06:57	07:25
26-Feb	06:26	17:01	06:58	07:23
27-Feb	06:23	17:03	06:59	07:22
28-Feb	06:21	17:05	07:00	07:19
29-02	06:19	17:07	07:02	07:17
01-Mar	06:17	17:09	07:07	07:12
02-Mar	06:14	17:11	06:23	06:30
03-Mar	06:12	17:13	06:19	06:34
04-Mar	06:10	17:15	06:16	06:36
05-Mar	06:07	17:17	06:14	06:37
06-Mar	06:05	17:18	06:13	06:38
07-Mar	06:03	17:20	06:11	06:39
08-Mar	06:00	17:22	06:10	06:39

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
09-Mar	05:58	17:24	06:10	06:39
10-Mar	05:56	17:26	06:09	06:39
11-Mar	05:53	17:28	06:09	06:39
12-Mar	05:51	17:30	06:08	06:38
13-Mar	05:49	17:31	06:08	06:38
14-Mar	05:46	17:33	06:08	06:37
15-Mar	05:44	17:35	06:09	06:36
16-Mar	05:41	17:37	05:50	05:58
16-Mar	05:41	17:37	06:09	06:35
17-Mar	05:39	17:39	05:46	06:02
17-Mar	05:39	17:39	06:10	06:33
18-Mar	05:37	17:40	05:43	06:04
18-Mar	05:37	17:40	06:12	06:31
19-Mar	05:34	17:42	05:41	06:05
19-Mar	05:34	17:42	06:13	06:28
20-Mar	05:32	17:44	05:38	06:06
20-Mar	05:32	17:44	06:17	06:24
21-Mar	05:29	17:46	05:36	06:06
22-Mar	05:27	17:48	05:34	06:07
23-Mar	05:25	17:50	05:33	06:07
24-Mar	05:22	17:51	05:32	06:07
25-Mar	05:20	17:53	05:31	06:06
26-Mar	05:17	17:55	05:31	06:06
27-Mar	05:15	17:57	05:31	06:05
28-Mar	05:13	17:59	05:30	06:05
29-Mar	05:10	18:00	05:30	06:04
30-Mar	05:08	18:02	05:31	06:03
31-Mar	05:05	18:04	05:31	06:01
01-Apr	05:03	18:06	05:32	05:59
02-Apr	05:01	18:08	05:33	05:57
03-Apr	04:58	18:09	05:35	05:52
04-Apr	04:56	18:11	05:39	05:44
04-Apr	04:56	18:11	05:43	05:46
06-Apr	04:51	18:15	05:07	05:17
07-Apr	04:49	18:17	05:01	05:22
08-Apr	04:46	18:18	04:57	05:25
09-Apr	04:44	18:20	04:55	05:27
10-Apr	04:42	18:22	04:52	05:29
11-Apr	04:39	18:24	04:50	05:30
12-Apr	04:37	18:26	04:47	05:32
13-Apr	04:35	18:27	04:44	05:33
14-Apr	04:33	18:29	04:42	05:33
15-Apr	04:30	18:31	04:40	05:34
16-Apr	04:28	18:33	04:38	05:35
17-Apr	04:26	18:35	04:37	05:35
18-Apr	04:24	18:36	04:35	05:36
19-Apr	04:21	18:38	04:34	05:36
20-Apr	04:19	18:40	04:33	05:36
21-Apr	04:17	18:42	04:33	05:36

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
22-Apr	04:15	18:44	04:28	05:37
23-Apr	04:13	18:45	04:24	05:37
24-Apr	04:10	18:47	04:21	05:37
25-Apr	04:08	18:49	04:18	05:37
26-Apr	04:06	18:51	04:16	05:37
27-Apr	04:04	18:52	04:14	05:36
28-Apr	04:02	18:54	04:12	05:36
29-Apr	04:00	18:56	04:10	05:36
30-Apr	03:58	18:58	04:06	05:36
01-May	03:56	19:00	04:03	05:35
02-May	03:54	19:01	04:01	05:35
03-May	03:52	19:03	03:59	05:34
04-May	03:50	19:05	03:58	05:34
05-May	03:48	19:07	03:57	05:33
06-May	03:46	19:08	03:56	05:33
07-May	03:44	19:10	03:55	05:32
08-May	03:43	19:12	03:55	05:31
09-May	03:41	19:13	03:54	05:31
10-May	03:39	19:15	03:54	05:30
11-May	03:37	19:17	03:53	05:29
12-May	03:36	19:18	03:53	05:28
13-May	03:34	19:20	03:53	05:27
14-May	03:32	19:22	03:52	05:27
15-May	03:31	19:23	03:52	05:26
16-May	03:29	19:25	03:52	05:25
17-May	03:28	19:26	03:52	05:24
18-May	03:26	19:28	03:51	05:23
19-May	03:25	19:30	03:51	05:23
20-May	03:23	19:31	03:51	05:22
21-May	03:22	19:33	03:51	05:20
22-May	03:20	19:34	03:52	05:19
23-May	03:19	19:36	03:52	05:18
24-May	03:18	19:37	03:52	05:17
25-May	03:17	19:38	03:52	05:15
26-May	03:16	19:40	03:52	05:13
27-May	03:14	19:41	03:53	05:11
28-May	03:13	19:42	03:53	05:08
29-May	03:12	19:44	03:53	04:58
29-May	03:12	19:44	04:58	05:03
30-May	03:11	19:45	03:54	04:58
31-May	03:10	19:46	03:21	03:30
31-May	03:10	19:46	03:54	04:58
01-Jun	03:10	19:47	03:19	03:32
01-Jun	03:10	19:47	03:54	04:58
02-Jun	03:09	19:48	03:18	03:33
02-Jun	03:09	19:48	03:55	04:58
03-Jun	03:08	19:49	03:17	03:35
03-Jun	03:08	19:49	03:55	04:58
04-Jun	03:07	19:50	03:16	03:35

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
04-Jun	03:07	19:50	03:56	04:58
05-Jun	03:06	19:51	03:16	03:36
05-Jun	03:06	19:51	03:56	04:58
06-Jun	03:06	19:52	03:15	03:37
06-Jun	03:06	19:52	03:56	04:57
07-Jun	03:05	19:53	03:15	03:38
07-Jun	03:05	19:53	03:57	04:57
08-Jun	03:05	19:54	03:14	03:38
08-Jun	03:05	19:54	03:57	04:57
09-Jun	03:04	19:55	03:14	03:39
09-Jun	03:04	19:55	03:58	04:57
10-Jun	03:04	19:56	03:14	03:39
10-Jun	03:04	19:56	03:58	04:57
11-Jun	03:04	19:57	03:14	03:40
11-Jun	03:04	19:57	03:59	04:57
12-Jun	03:03	19:57	03:13	03:40
12-Jun	03:03	19:57	03:59	04:57
13-Jun	03:03	19:58	03:13	03:41
13-Jun	03:03	19:58	03:59	04:57
14-Jun	03:03	19:58	03:13	03:41
14-Jun	03:03	19:58	04:00	04:57
15-Jun	03:03	19:59	03:13	03:41
15-Jun	03:03	19:59	04:00	04:57
16-Jun	03:03	19:59	03:13	03:42
16-Jun	03:03	19:59	04:00	04:57
17-Jun	03:03	20:00	03:14	03:42
17-Jun	03:03	20:00	04:01	04:58
18-Jun	03:03	20:00	03:14	03:42
18-Jun	03:03	20:00	04:01	04:58
19-Jun	03:03	20:00	03:14	03:43
19-Jun	03:03	20:00	04:01	04:58
20-Jun	03:03	20:01	03:14	03:43
20-Jun	03:03	20:01	04:02	04:58
21-Jun	03:03	20:01	03:14	03:43
21-Jun	03:03	20:01	04:02	04:58
22-Jun	03:03	20:01	03:14	03:43
22-Jun	03:03	20:01	04:02	04:59
23-Jun	03:04	20:01	03:15	03:43
23-Jun	03:04	20:01	04:02	04:59
24-Jun	03:04	20:01	03:15	03:44
24-Jun	03:04	20:01	04:02	04:59
25-Jun	03:04	20:01	03:15	03:44
25-Jun	03:04	20:01	04:02	04:59
26-Jun	03:05	20:01	03:16	03:44
26-Jun	03:05	20:01	04:02	05:00
27-Jun	03:05	20:01	03:16	03:44
27-Jun	03:05	20:01	04:03	05:00
28-Jun	03:06	20:01	03:16	03:44
28-Jun	03:06	20:01	04:03	05:00

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
29-Jun	03:07	20:00	03:17	03:44
29-Jun	03:07	20:00	04:03	05:01
30-Jun	03:07	20:00	03:17	03:44
30-Jun	03:07	20:00	04:03	05:01
01-Jul	03:08	20:00	03:18	03:44
01-Jul	03:08	20:00	04:03	05:02
02-Jul	03:09	19:59	03:19	03:44
02-Jul	03:09	19:59	04:03	05:02
03-Jul	03:10	19:59	03:19	03:44
03-Jul	03:10	19:59	04:03	05:02
04-Jul	03:10	19:58	03:20	03:44
04-Jul	03:10	19:58	04:02	05:03
05-Jul	03:11	19:58	03:21	03:43
05-Jul	03:11	19:58	04:02	05:03
06-Jul	03:12	19:57	03:22	03:43
06-Jul	03:12	19:57	04:02	05:04
07-Jul	03:13	19:56	03:23	03:42
07-Jul	03:13	19:56	04:02	05:04
08-Jul	03:14	19:56	03:24	03:42
08-Jul	03:14	19:56	04:02	05:05
09-Jul	03:15	19:55	03:25	03:41
09-Jul	03:15	19:55	04:02	05:05
10-Jul	03:16	19:54	03:26	03:40
10-Jul	03:16	19:54	04:02	05:05
11-Jul	03:18	19:53	03:27	03:39
11-Jul	03:18	19:53	04:02	05:06
12-Jul	03:19	19:52	03:30	03:37
12-Jul	03:19	19:52	04:02	05:06
13-Jul	03:20	19:51	04:02	05:07
14-Jul	03:21	19:50	04:02	05:14
15-Jul	03:22	19:49	04:02	05:19
16-Jul	03:24	19:48	04:01	05:21
17-Jul	03:25	19:47	04:01	05:24
18-Jul	03:26	19:45	04:01	05:25
19-Jul	03:28	19:44	04:01	05:27
20-Jul	03:29	19:43	04:01	05:28
21-Jul	03:31	19:41	04:01	05:30
22-Jul	03:32	19:40	04:01	05:31
23-Jul	03:34	19:39	04:01	05:32
24-Jul	03:35	19:37	04:02	05:33
25-Jul	03:37	19:36	04:02	05:34
26-Jul	03:38	19:34	04:02	05:35
27-Jul	03:40	19:32	04:02	05:36
28-Jul	03:41	19:31	04:02	05:36
29-Jul	03:43	19:29	04:02	05:37
30-Jul	03:45	19:27	04:03	05:38
31-Jul	03:46	19:26	04:03	05:39
01-Aug	03:48	19:24	04:04	05:40
02-Aug	03:49	19:22	04:04	05:40

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
03-Aug	03:51	19:20	04:04	05:41
04-Aug	03:53	19:19	04:04	05:41
05-Aug	03:54	19:17	04:05	05:42
06-Aug	03:56	19:15	04:05	05:42
07-Aug	03:58	19:13	04:06	05:43
08-Aug	03:59	19:11	04:07	05:43
09-Aug	04:01	19:09	04:08	05:43
10-Aug	04:03	19:07	04:10	05:43
11-Aug	04:04	19:05	04:12	05:43
12-Aug	04:06	19:03	04:15	05:43
13-Aug	04:08	19:01	04:18	05:43
14-Aug	04:10	18:59	04:19	05:43
15-Aug	04:11	18:57	04:21	05:43
16-Aug	04:13	18:54	04:23	05:43
17-Aug	04:15	18:52	04:25	05:43
18-Aug	04:16	18:50	04:27	05:42
19-Aug	04:18	18:48	04:30	05:42
20-Aug	04:20	18:46	04:33	05:41
21-Aug	04:22	18:44	04:37	05:41
22-Aug	04:23	18:41	04:37	05:40
23-Aug	04:25	18:39	04:38	05:39
24-Aug	04:27	18:37	04:38	05:39
25-Aug	04:28	18:35	04:39	05:38
26-Aug	04:30	18:32	04:40	05:37
27-Aug	04:32	18:30	04:41	05:35
28-Aug	04:34	18:28	04:43	05:34
29-Aug	04:35	18:25	04:44	05:33
30-Aug	04:37	18:23	04:47	05:31
31-Aug	04:39	18:21	04:50	05:30
01-Sep	04:40	18:18	04:51	05:28
02-Sep	04:42	18:16	04:53	05:25
03-Sep	04:44	18:14	04:55	05:22
04-Sep	04:46	18:11	04:58	05:19
05-Sep	04:47	18:09	05:03	05:13
07-Sep	04:51	18:04	05:34	05:39
07-Sep	04:51	18:04	05:39	05:41
08-Sep	04:52	18:02	05:29	05:47
09-Sep	04:54	17:59	05:27	05:50
10-Sep	04:56	17:57	05:25	05:52
11-Sep	04:58	17:54	05:24	05:53
12-Sep	04:59	17:52	05:22	05:54
13-Sep	05:01	17:50	05:22	05:55
14-Sep	05:03	17:47	05:21	05:55
15-Sep	05:04	17:45	05:20	05:55
16-Sep	05:06	17:42	05:20	05:55
17-Sep	05:08	17:40	05:20	05:55
18-Sep	05:10	17:37	05:20	05:55
19-Sep	05:11	17:35	05:20	05:54
20-Sep	05:13	17:33	05:21	05:53

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
21-Sep	05:15	17:30	05:22	05:52
22-Sep	05:16	17:28	05:23	05:51
23-Sep	05:18	17:25	05:25	05:50
23-Sep	05:18	17:25	05:59	06:12
24-Sep	05:20	17:23	05:26	05:48
24-Sep	05:20	17:23	05:56	06:14
25-Sep	05:22	17:21	05:28	05:46
25-Sep	05:22	17:21	05:54	06:16
26-Sep	05:23	17:18	05:31	05:43
26-Sep	05:23	17:18	05:52	06:17
27-Sep	05:25	17:16	05:51	06:18
28-Sep	05:27	17:13	05:50	06:18
29-Sep	05:29	17:11	05:49	06:19
30-Sep	05:30	17:08	05:49	06:19
01-Oct	05:32	17:06	05:48	06:18
02-Oct	05:34	17:04	05:48	06:18
03-Oct	05:36	17:01	05:48	06:18
04-Oct	05:37	16:59	05:48	06:17
05-Oct	05:39	16:57	05:48	06:16
06-Oct	05:41	16:54	05:49	06:15
07-Oct	05:43	16:52	05:50	06:14
08-Oct	05:45	16:50	05:51	06:12
09-Oct	05:46	16:47	05:53	06:10
10-Oct	05:48	16:45	05:55	06:07
12-Oct	05:52	16:40	06:38	06:49
13-Oct	05:54	16:38	06:35	06:52
14-Oct	05:55	16:36	06:33	06:54
15-Oct	05:57	16:33	06:31	06:55
16-Oct	05:59	16:31	06:30	06:57
17-Oct	06:01	16:29	06:29	06:57
18-Oct	06:03	16:27	06:28	06:58
19-Oct	06:05	16:25	06:28	06:58
20-Oct	06:06	16:22	06:27	06:58
21-Oct	06:08	16:20	06:27	06:58
22-Oct	06:10	16:18	06:27	06:58
23-Oct	06:12	16:16	06:27	06:58
24-Oct	06:14	16:14	06:27	06:58
25-Oct	06:16	16:12	06:28	06:57
26-Oct	06:18	16:10	06:28	06:56
27-Oct	06:19	16:08	06:29	06:56
28-Oct	06:21	16:06	06:30	06:55
29-Oct	06:23	16:04	06:32	06:53
30-Oct	06:25	16:02	06:34	06:52
31-Oct	06:27	16:00	06:36	06:50
01-Nov	06:29	15:58	06:40	06:45
06-Nov	06:38	15:48	07:30	07:39
07-Nov	06:40	15:47	07:27	07:42
08-Nov	06:42	15:45	07:25	07:44
09-Nov	06:44	15:43	07:24	07:45

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
10-Nov	06:46	15:42	07:23	07:47
11-Nov	06:48	15:40	07:22	07:48
12-Nov	06:50	15:38	07:22	07:49
13-Nov	06:51	15:37	07:21	07:49
14-Nov	06:53	15:35	07:21	07:50
15-Nov	06:55	15:34	07:21	07:51
16-Nov	06:57	15:32	07:21	07:51
17-Nov	06:59	15:31	07:21	07:51
18-Nov	07:00	15:30	07:21	07:52
19-Nov	07:02	15:28	07:21	07:52
20-Nov	07:04	15:27	07:22	07:52
21-Nov	07:06	15:26	07:22	07:52
22-Nov	07:07	15:25	07:23	07:52
23-Nov	07:09	15:24	07:23	07:52
24-Nov	07:11	15:23	07:24	07:52
25-Nov	07:12	15:22	07:25	07:52
26-Nov	07:14	15:21	07:25	07:52
26-Nov	07:14	15:21	08:12	08:23
27-Nov	07:16	15:20	07:26	07:52
27-Nov	07:16	15:20	08:10	08:25
28-Nov	07:17	15:19	07:27	07:52
28-Nov	07:17	15:19	08:09	08:27
29-Nov	07:19	15:18	07:28	07:52
29-Nov	07:19	15:18	08:09	08:28
30-Nov	07:20	15:17	07:29	07:52
30-Nov	07:20	15:17	08:08	08:29
01-Dec	07:22	15:16	07:31	07:51
01-Dec	07:22	15:16	08:08	08:30
02-Dec	07:23	15:16	07:32	07:51
02-Dec	07:23	15:16	08:08	08:31
03-Dec	07:25	15:15	07:34	07:51
03-Dec	07:25	15:15	08:08	08:32
04-Dec	07:26	15:15	07:35	07:50
04-Dec	07:26	15:15	08:08	08:33
05-Dec	07:27	15:14	07:36	07:50
05-Dec	07:27	15:14	08:08	08:34
06-Dec	07:29	15:14	07:38	07:49
06-Dec	07:29	15:14	08:08	08:35
07-Dec	07:30	15:13	07:40	07:48
07-Dec	07:30	15:13	08:08	08:35
08-Dec	07:31	15:13	08:08	08:36
09-Dec	07:32	15:13	08:08	08:37
10-Dec	07:33	15:13	08:09	08:37
11-Dec	07:34	15:12	08:09	08:38
12-Dec	07:36	15:12	08:09	08:38
13-Dec	07:36	15:12	08:10	08:39
14-Dec	07:37	15:12	08:10	08:36
15-Dec	07:38	15:12	08:11	08:36
16-Dec	07:39	15:13	08:11	08:37

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
17-Dec	07:40	15:13	08:11	08:37
18-Dec	07:41	15:13	08:12	08:38
19-Dec	07:41	15:14	08:12	08:38
20-Dec	07:42	15:14	08:13	08:39
21-Dec	07:42	15:14	08:13	08:39
22-Dec	07:43	15:15	08:14	08:40
23-Dec	07:43	15:16	08:14	08:40
24-Dec	07:44	15:16	08:15	08:41
25-Dec	07:44	15:17	08:15	08:41
26-Dec	07:44	15:18	08:16	08:42
27-Dec	07:44	15:19	08:17	08:42
28-Dec	07:44	15:19	08:17	08:43
29-Dec	07:44	15:20	08:18	08:47
30-Dec	07:44	15:21	08:18	08:47
31-Dec	07:44	15:22	08:19	08:48

Turbine 4

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
01-Apr	05:03	18:06	05:12	05:24
02-Apr	05:01	18:08	05:08	05:27
03-Apr	04:58	18:09	05:06	05:28
04-Apr	04:56	18:11	05:04	05:29
05-Apr	04:54	18:13	05:01	05:30
06-Apr	04:51	18:15	04:58	05:31
07-Apr	04:49	18:17	04:56	05:31
08-Apr	04:46	18:18	04:55	05:31
09-Apr	04:44	18:20	04:53	05:32
10-Apr	04:42	18:22	04:50	05:31
11-Apr	04:39	18:24	04:47	05:31
12-Apr	04:37	18:26	04:45	05:31
13-Apr	04:35	18:27	04:42	05:30
14-Apr	04:33	18:29	04:40	05:30
15-Apr	04:30	18:31	04:38	05:29
16-Apr	04:28	18:33	04:36	05:28
17-Apr	04:26	18:35	04:33	05:27
18-Apr	04:24	18:36	04:31	05:26
19-Apr	04:21	18:38	04:30	05:24
20-Apr	04:19	18:40	04:29	05:23
21-Apr	04:17	18:42	04:28	05:21
22-Apr	04:15	18:44	04:27	05:18
23-Apr	04:13	18:45	04:27	05:14
24-Apr	04:10	18:47	04:26	05:10
25-Apr	04:08	18:49	04:26	05:09
26-Apr	04:06	18:51	04:26	05:09
27-Apr	04:04	18:52	04:26	05:07
28-Apr	04:02	18:54	04:26	05:06
29-Apr	04:00	18:56	04:26	05:05
30-Apr	03:58	18:58	04:27	05:03
01-May	03:56	19:00	04:27	05:00

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
02-May	03:54	19:01	04:07	04:12
02-May	03:54	19:01	04:28	04:57
03-May	03:52	19:03	04:02	04:17
03-May	03:52	19:03	04:29	04:50
04-May	03:50	19:05	04:00	04:19
04-May	03:50	19:05	04:31	04:48
05-May	03:48	19:07	03:58	04:20
05-May	03:48	19:07	04:32	04:46
06-May	03:46	19:08	03:56	04:22
06-May	03:46	19:08	04:35	04:43
07-May	03:44	19:10	03:55	04:23
08-May	03:43	19:12	03:53	04:23
09-May	03:41	19:13	03:51	04:24
10-May	03:39	19:15	03:49	04:25
10-May	03:39	19:15	18:58	19:04
11-May	03:37	19:17	03:47	04:25
11-May	03:37	19:17	18:54	19:08
12-May	03:36	19:18	03:46	04:26
12-May	03:36	19:18	18:52	19:10
13-May	03:34	19:20	03:45	04:26
13-May	03:34	19:20	18:50	19:11
14-May	03:32	19:22	03:44	04:26
14-May	03:32	19:22	18:49	19:13
15-May	03:31	19:23	03:43	04:26
15-May	03:31	19:23	18:48	19:14
16-May	03:29	19:25	03:42	04:27
16-May	03:29	19:25	18:48	19:16
17-May	03:28	19:26	03:42	04:27
17-May	03:28	19:26	18:47	19:18
18-May	03:26	19:28	03:41	04:27
18-May	03:26	19:28	18:46	19:19
19-May	03:25	19:30	03:41	04:27
19-May	03:25	19:30	18:46	19:20
20-May	03:23	19:31	03:40	04:27
20-May	03:23	19:31	18:46	19:21
21-May	03:22	19:33	03:35	03:38
21-May	03:22	19:33	03:40	04:27
21-May	03:22	19:33	18:45	19:22
22-May	03:20	19:34	03:31	04:27
22-May	03:20	19:34	18:45	19:23
23-May	03:19	19:36	03:29	04:27
23-May	03:19	19:36	18:45	19:23
24-May	03:18	19:37	03:28	04:26
24-May	03:18	19:37	18:45	19:24
25-May	03:17	19:38	03:27	04:26
25-May	03:17	19:38	18:45	19:27
26-May	03:16	19:40	03:25	04:26
26-May	03:16	19:40	18:45	19:30
27-May	03:14	19:41	03:24	04:26

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
27-May	03:14	19:41	18:45	19:32
28-May	03:13	19:42	03:23	04:26
28-May	03:13	19:42	18:45	19:33
29-May	03:12	19:44	03:22	04:26
29-May	03:12	19:44	18:45	19:34
30-May	03:11	19:45	03:21	04:25
30-May	03:11	19:45	18:45	19:35
31-May	03:10	19:46	03:20	04:25
31-May	03:10	19:46	18:46	19:37
01-Jun	03:10	19:47	03:20	04:25
01-Jun	03:10	19:47	18:46	19:38
02-Jun	03:09	19:48	03:19	04:25
02-Jun	03:09	19:48	18:46	19:39
03-Jun	03:08	19:49	03:18	04:24
03-Jun	03:08	19:49	18:46	19:39
04-Jun	03:07	19:50	03:17	04:24
04-Jun	03:07	19:50	18:46	19:41
05-Jun	03:06	19:51	03:17	04:24
05-Jun	03:06	19:51	18:47	19:42
06-Jun	03:06	19:52	03:17	04:23
06-Jun	03:06	19:52	18:47	19:43
07-Jun	03:05	19:53	03:16	04:23
07-Jun	03:05	19:53	18:47	19:44
08-Jun	03:05	19:54	03:16	04:23
08-Jun	03:05	19:54	18:48	19:44
09-Jun	03:04	19:55	03:15	04:22
09-Jun	03:04	19:55	18:48	19:45
10-Jun	03:04	19:56	03:15	04:22
10-Jun	03:04	19:56	18:48	19:46
11-Jun	03:04	19:57	03:14	04:22
11-Jun	03:04	19:57	18:48	19:47
12-Jun	03:03	19:57	03:14	04:22
12-Jun	03:03	19:57	18:49	19:47
13-Jun	03:03	19:58	03:14	04:21
13-Jun	03:03	19:58	18:49	19:48
14-Jun	03:03	19:58	03:14	04:21
14-Jun	03:03	19:58	18:49	19:48
15-Jun	03:03	19:59	03:14	04:21
15-Jun	03:03	19:59	18:50	19:49
16-Jun	03:03	19:59	03:14	04:21
16-Jun	03:03	19:59	18:50	19:49
17-Jun	03:03	20:00	03:14	04:21
17-Jun	03:03	20:00	18:50	19:50
18-Jun	03:03	20:00	03:14	04:21
18-Jun	03:03	20:00	18:50	19:50
19-Jun	03:03	20:00	03:14	04:21
19-Jun	03:03	20:00	18:51	19:50
20-Jun	03:03	20:01	03:14	04:21
20-Jun	03:03	20:01	18:51	19:50

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
21-Jun	03:03	20:01	03:14	04:21
21-Jun	03:03	20:01	18:51	19:51
22-Jun	03:03	20:01	03:14	04:22
22-Jun	03:03	20:01	18:51	19:51
23-Jun	03:04	20:01	03:15	04:22
23-Jun	03:04	20:01	18:51	19:51
24-Jun	03:04	20:01	03:15	04:22
24-Jun	03:04	20:01	18:52	19:51
25-Jun	03:04	20:01	03:15	04:23
25-Jun	03:04	20:01	18:52	19:51
26-Jun	03:05	20:01	03:16	04:23
26-Jun	03:05	20:01	18:52	19:51
27-Jun	03:05	20:01	03:16	04:24
27-Jun	03:05	20:01	18:52	19:51
28-Jun	03:06	20:01	03:17	04:24
28-Jun	03:06	20:01	18:52	19:51
29-Jun	03:07	20:00	03:18	04:25
29-Jun	03:07	20:00	18:52	19:51
30-Jun	03:07	20:00	03:18	04:26
30-Jun	03:07	20:00	18:52	19:50
01-Jul	03:08	20:00	03:19	04:26
01-Jul	03:08	20:00	18:53	19:50
02-Jul	03:09	19:59	03:20	04:27
02-Jul	03:09	19:59	18:53	19:49
03-Jul	03:10	19:59	03:20	04:28
03-Jul	03:10	19:59	18:53	19:49
04-Jul	03:10	19:58	03:21	04:28
04-Jul	03:10	19:58	18:53	19:49
05-Jul	03:11	19:58	03:22	04:29
05-Jul	03:11	19:58	18:53	19:48
06-Jul	03:12	19:57	03:23	04:30
06-Jul	03:12	19:57	18:53	19:47
07-Jul	03:13	19:56	03:24	04:30
07-Jul	03:13	19:56	18:53	19:47
08-Jul	03:14	19:56	03:24	04:31
08-Jul	03:14	19:56	18:53	19:46
09-Jul	03:15	19:55	03:25	04:32
09-Jul	03:15	19:55	18:53	19:45
10-Jul	03:16	19:54	03:26	04:32
10-Jul	03:16	19:54	18:53	19:44
11-Jul	03:18	19:53	03:28	04:33
11-Jul	03:18	19:53	18:53	19:43
12-Jul	03:19	19:52	03:29	04:33
12-Jul	03:19	19:52	18:53	19:43
13-Jul	03:20	19:51	03:30	04:34
13-Jul	03:20	19:51	18:54	19:42
14-Jul	03:21	19:50	03:31	04:34
14-Jul	03:21	19:50	18:54	19:41
15-Jul	03:22	19:49	03:33	04:35

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
15-Jul	03:22	19:49	18:54	19:39
16-Jul	03:24	19:48	03:34	04:35
16-Jul	03:24	19:48	18:54	19:37
17-Jul	03:25	19:47	03:35	04:35
17-Jul	03:25	19:47	18:54	19:33
18-Jul	03:26	19:45	03:37	04:36
18-Jul	03:26	19:45	18:54	19:33
19-Jul	03:28	19:44	03:38	04:36
19-Jul	03:28	19:44	18:55	19:32
20-Jul	03:29	19:43	03:39	04:36
20-Jul	03:29	19:43	18:55	19:32
21-Jul	03:31	19:41	03:42	03:51
21-Jul	03:31	19:41	03:50	04:37
21-Jul	03:31	19:41	18:55	19:31
22-Jul	03:32	19:40	03:50	04:37
22-Jul	03:32	19:40	18:56	19:30
23-Jul	03:34	19:39	03:51	04:37
23-Jul	03:34	19:39	18:56	19:29
24-Jul	03:35	19:37	03:51	04:37
24-Jul	03:35	19:37	18:57	19:28
25-Jul	03:37	19:36	03:51	04:37
25-Jul	03:37	19:36	18:57	19:27
26-Jul	03:38	19:34	03:52	04:37
26-Jul	03:38	19:34	18:58	19:25
27-Jul	03:40	19:32	03:53	04:37
27-Jul	03:40	19:32	18:59	19:24
28-Jul	03:41	19:31	03:53	04:37
28-Jul	03:41	19:31	19:00	19:22
29-Jul	03:43	19:29	03:54	04:36
29-Jul	03:43	19:29	19:01	19:21
30-Jul	03:45	19:27	03:55	04:36
30-Jul	03:45	19:27	19:03	19:19
31-Jul	03:46	19:26	03:56	04:35
31-Jul	03:46	19:26	19:06	19:16
01-Aug	03:48	19:24	03:58	04:35
02-Aug	03:49	19:22	03:59	04:34
03-Aug	03:51	19:20	04:01	04:34
04-Aug	03:53	19:19	04:03	04:33
05-Aug	03:54	19:17	04:04	04:32
06-Aug	03:56	19:15	04:06	04:31
06-Aug	03:56	19:15	04:43	04:54
07-Aug	03:58	19:13	04:07	04:29
07-Aug	03:58	19:13	04:41	04:56
08-Aug	03:59	19:11	04:09	04:27
08-Aug	03:59	19:11	04:39	04:58
09-Aug	04:01	19:09	04:11	04:24
09-Aug	04:01	19:09	04:37	04:59
10-Aug	04:03	19:07	04:36	05:06
11-Aug	04:04	19:05	04:35	05:09

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
12-Aug	04:06	19:03	04:34	05:11
13-Aug	04:08	19:01	04:34	05:12
14-Aug	04:10	18:59	04:33	05:14
15-Aug	04:11	18:57	04:33	05:14
16-Aug	04:13	18:54	04:32	05:15
17-Aug	04:15	18:52	04:32	05:16
18-Aug	04:16	18:50	04:32	05:16
19-Aug	04:18	18:48	04:32	05:21
20-Aug	04:20	18:46	04:32	05:24
21-Aug	04:22	18:44	04:32	05:25
22-Aug	04:23	18:41	04:33	05:27
23-Aug	04:25	18:39	04:34	05:28
24-Aug	04:27	18:37	04:35	05:29
25-Aug	04:28	18:35	04:36	05:30
26-Aug	04:30	18:32	04:38	05:30
27-Aug	04:32	18:30	04:40	05:31
28-Aug	04:34	18:28	04:41	05:31
29-Aug	04:35	18:25	04:43	05:31
30-Aug	04:37	18:23	04:45	05:31
31-Aug	04:39	18:21	04:47	05:31
01-Sep	04:40	18:18	04:48	05:30
02-Sep	04:42	18:16	04:51	05:30
03-Sep	04:44	18:14	04:52	05:29
04-Sep	04:46	18:11	04:53	05:28
05-Sep	04:47	18:09	04:55	05:27
06-Sep	04:49	18:06	04:56	05:26
07-Sep	04:51	18:04	04:58	05:24
08-Sep	04:52	18:02	05:00	05:23
09-Sep	04:54	17:59	05:02	05:20
10-Sep	04:56	17:57	05:04	05:17

Turbine 5

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
09-May	03:41	19:13	18:54	19:05
10-May	03:39	19:15	18:51	19:07
11-May	03:37	19:17	18:50	19:09
12-May	03:36	19:18	18:49	19:10
13-May	03:34	19:20	18:48	19:11
14-May	03:32	19:22	18:47	19:13
15-May	03:31	19:23	18:47	19:14
16-May	03:29	19:25	18:46	19:15
17-May	03:28	19:26	18:46	19:15
18-May	03:26	19:28	18:46	19:16
19-May	03:25	19:30	18:45	19:16
20-May	03:23	19:31	18:45	19:17
21-May	03:22	19:33	18:45	19:17
22-May	03:20	19:34	18:45	19:18
23-May	03:19	19:36	18:45	19:18
24-May	03:18	19:37	18:46	19:18

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
25-May	03:17	19:38	18:46	19:18
26-May	03:16	19:40	18:46	19:18
27-May	03:14	19:41	18:46	19:19
28-May	03:13	19:42	18:47	19:19
29-May	03:12	19:44	18:47	19:19
30-May	03:11	19:45	18:47	19:19
31-May	03:10	19:46	18:47	19:19
01-Jun	03:10	19:47	18:48	19:19
02-Jun	03:09	19:48	18:48	19:19
03-Jun	03:08	19:49	18:49	19:19
04-Jun	03:07	19:50	18:49	19:19
05-Jun	03:06	19:51	18:49	19:19
06-Jun	03:06	19:52	18:50	19:19
07-Jun	03:05	19:53	18:50	19:19
08-Jun	03:05	19:54	18:51	19:19
09-Jun	03:04	19:55	18:51	19:19
10-Jun	03:04	19:56	18:51	19:19
11-Jun	03:04	19:57	18:52	19:19
12-Jun	03:03	19:57	18:52	19:19
13-Jun	03:03	19:58	18:53	19:19
14-Jun	03:03	19:58	18:53	19:19
15-Jun	03:03	19:59	18:53	19:19
16-Jun	03:03	19:59	18:54	19:19
17-Jun	03:03	20:00	18:54	19:19
18-Jun	03:03	20:00	18:54	19:20
19-Jun	03:03	20:00	18:55	19:20
20-Jun	03:03	20:01	18:55	19:20
21-Jun	03:03	20:01	18:55	19:20
22-Jun	03:03	20:01	18:55	19:20
23-Jun	03:04	20:01	18:55	19:21
24-Jun	03:04	20:01	18:55	19:21
25-Jun	03:04	20:01	18:56	19:21
26-Jun	03:05	20:01	18:56	19:22
27-Jun	03:05	20:01	18:56	19:22
28-Jun	03:06	20:01	18:56	19:22
29-Jun	03:07	20:00	18:56	19:23
30-Jun	03:07	20:00	18:56	19:23
01-Jul	03:08	20:00	18:56	19:23
02-Jul	03:09	19:59	18:56	19:24
03-Jul	03:10	19:59	18:56	19:24
04-Jul	03:10	19:58	18:56	19:25
05-Jul	03:11	19:58	18:55	19:25
06-Jul	03:12	19:57	18:55	19:25
07-Jul	03:13	19:56	18:55	19:26
08-Jul	03:14	19:56	18:55	19:26
09-Jul	03:15	19:55	18:55	19:26
10-Jul	03:16	19:54	18:55	19:26
11-Jul	03:18	19:53	18:55	19:27
12-Jul	03:19	19:52	18:55	19:27

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
13-Jul	03:20	19:51	18:55	19:27
14-Jul	03:21	19:50	18:55	19:27
15-Jul	03:22	19:49	18:55	19:27
16-Jul	03:24	19:48	18:55	19:27
17-Jul	03:25	19:47	18:55	19:27
18-Jul	03:26	19:45	18:55	19:27
19-Jul	03:28	19:44	18:55	19:27
20-Jul	03:29	19:43	18:55	19:27
21-Jul	03:31	19:41	18:55	19:27
22-Jul	03:32	19:40	18:55	19:27
23-Jul	03:34	19:39	18:56	19:26
24-Jul	03:35	19:37	18:56	19:26
25-Jul	03:37	19:36	18:56	19:25
26-Jul	03:38	19:34	18:57	19:24
27-Jul	03:40	19:32	18:57	19:23
28-Jul	03:41	19:31	18:58	19:22
29-Jul	03:43	19:29	18:59	19:21
30-Jul	03:45	19:27	18:59	19:19
31-Jul	03:46	19:26	19:01	19:18
01-Aug	03:48	19:24	19:02	19:16
02-Aug	03:49	19:22	19:05	19:13

Turbine 6

There are no shadows cast by this turbine

Turbine 7

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
02-Mar	06:14	17:11	06:21	06:34
03-Mar	06:12	17:13	06:19	06:36
04-Mar	06:10	17:15	06:17	06:38
05-Mar	06:07	17:17	06:15	06:39
06-Mar	06:05	17:18	06:13	06:39
07-Mar	06:03	17:20	06:12	06:40
08-Mar	06:00	17:22	06:08	06:40
09-Mar	05:58	17:24	06:05	06:40
10-Mar	05:56	17:26	06:02	06:40
11-Mar	05:53	17:28	06:00	06:39
12-Mar	05:51	17:30	05:59	06:39
13-Mar	05:49	17:31	05:58	06:38
14-Mar	05:46	17:33	05:57	06:37
15-Mar	05:44	17:35	05:56	06:35
16-Mar	05:41	17:37	05:55	06:34
17-Mar	05:39	17:39	05:55	06:32
18-Mar	05:37	17:40	05:55	06:29
19-Mar	05:34	17:42	05:55	06:24
20-Mar	05:32	17:44	05:55	06:22
21-Mar	05:29	17:46	05:55	06:21
22-Mar	05:27	17:48	05:56	06:20
23-Mar	05:25	17:50	05:54	06:18

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
23-Mar	05:25	17:50	05:57	06:18
24-Mar	05:22	17:51	05:30	05:46
24-Mar	05:22	17:51	05:59	06:15
25-Mar	05:20	17:53	05:28	05:48
25-Mar	05:20	17:53	06:02	06:11
26-Mar	05:17	17:55	05:25	05:50
27-Mar	05:15	17:57	05:23	05:50
28-Mar	05:13	17:59	05:21	05:51
29-Mar	05:10	18:00	05:18	05:51
30-Mar	05:08	18:02	05:16	05:52
31-Mar	05:05	18:04	05:14	05:52
01-Apr	05:03	18:06	05:13	05:52
02-Apr	05:01	18:08	05:11	05:51
03-Apr	04:58	18:09	05:10	05:51
04-Apr	04:56	18:11	05:10	05:50
05-Apr	04:54	18:13	05:09	05:49
05-Apr	04:54	18:13	17:50	18:01
06-Apr	04:51	18:15	05:09	05:49
06-Apr	04:51	18:15	17:45	18:05
07-Apr	04:49	18:17	05:08	05:47
07-Apr	04:49	18:17	17:42	18:07
08-Apr	04:46	18:18	05:08	05:46
08-Apr	04:46	18:18	17:40	18:12
09-Apr	04:44	18:20	05:08	05:44
09-Apr	04:44	18:20	17:38	18:14
10-Apr	04:42	18:22	05:08	05:42
10-Apr	04:42	18:22	17:36	18:15
11-Apr	04:39	18:24	04:49	04:57
11-Apr	04:39	18:24	05:09	05:39
11-Apr	04:39	18:24	17:35	18:17
12-Apr	04:37	18:26	04:45	05:00
12-Apr	04:37	18:26	05:09	05:37
12-Apr	04:37	18:26	17:34	18:18
13-Apr	04:35	18:27	04:43	05:02
13-Apr	04:35	18:27	05:10	05:36
13-Apr	04:35	18:27	17:33	18:18
14-Apr	04:33	18:29	04:41	05:03
14-Apr	04:33	18:29	05:11	05:34
14-Apr	04:33	18:29	17:32	18:19
15-Apr	04:30	18:31	04:38	05:04
15-Apr	04:30	18:31	05:13	05:32
15-Apr	04:30	18:31	17:31	18:20
16-Apr	04:28	18:33	04:36	05:04
16-Apr	04:28	18:33	05:16	05:28
16-Apr	04:28	18:33	17:30	18:20
17-Apr	04:26	18:35	04:34	05:05
17-Apr	04:26	18:35	17:30	18:21
18-Apr	04:24	18:36	04:32	05:05
18-Apr	04:24	18:36	17:29	18:21

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
19-Apr	04:21	18:38	04:30	05:05
19-Apr	04:21	18:38	17:29	18:26
20-Apr	04:19	18:40	04:28	05:05
20-Apr	04:19	18:40	17:28	18:30
21-Apr	04:17	18:42	04:25	05:05
21-Apr	04:17	18:42	17:28	18:32
22-Apr	04:15	18:44	04:23	05:04
22-Apr	04:15	18:44	17:28	18:34
23-Apr	04:13	18:45	04:21	05:04
23-Apr	04:13	18:45	17:28	18:35
24-Apr	04:10	18:47	04:19	05:03
24-Apr	04:10	18:47	17:28	18:37
25-Apr	04:08	18:49	04:17	05:02
25-Apr	04:08	18:49	17:28	18:39
26-Apr	04:06	18:51	04:15	05:01
26-Apr	04:06	18:51	17:28	18:40
27-Apr	04:04	18:52	04:13	05:00
27-Apr	04:04	18:52	17:29	18:42
28-Apr	04:02	18:54	04:12	04:59
28-Apr	04:02	18:54	17:29	18:44
29-Apr	04:00	18:56	04:11	04:57
29-Apr	04:00	18:56	17:30	18:46
30-Apr	03:58	18:58	04:10	04:55
30-Apr	03:58	18:58	17:30	18:47
01-May	03:56	19:00	04:10	04:53
01-May	03:56	19:00	17:31	18:49
02-May	03:54	19:01	04:09	04:52
02-May	03:54	19:01	17:31	18:50
03-May	03:52	19:03	04:09	04:50
03-May	03:52	19:03	17:32	18:52
04-May	03:50	19:05	04:09	04:49
04-May	03:50	19:05	17:33	18:54
05-May	03:48	19:07	04:09	04:47
05-May	03:48	19:07	17:34	18:56
06-May	03:46	19:08	04:09	04:44
06-May	03:46	19:08	17:35	18:57
07-May	03:44	19:10	04:09	04:43
07-May	03:44	19:10	17:36	18:59
08-May	03:43	19:12	04:09	04:41
08-May	03:43	19:12	17:38	19:01
09-May	03:41	19:13	04:09	04:39
09-May	03:41	19:13	17:38	19:02
10-May	03:39	19:15	04:10	04:37
10-May	03:39	19:15	17:40	19:04
11-May	03:37	19:17	04:11	04:37
11-May	03:37	19:17	17:41	19:06
12-May	03:36	19:18	04:11	04:36
12-May	03:36	19:18	17:42	19:07
13-May	03:34	19:20	04:12	04:35

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
13-May	03:34	19:20	17:44	19:09
14-May	03:32	19:22	04:13	04:34
14-May	03:32	19:22	17:46	19:10
15-May	03:31	19:23	04:14	04:32
15-May	03:31	19:23	17:49	19:12
16-May	03:29	19:25	04:16	04:31
16-May	03:29	19:25	17:51	19:13
17-May	03:28	19:26	04:19	04:28
17-May	03:28	19:26	17:52	19:14
18-May	03:26	19:28	17:52	19:16
19-May	03:25	19:30	17:52	19:17
20-May	03:23	19:31	17:53	19:19
21-May	03:22	19:33	17:53	19:20
22-May	03:20	19:34	17:54	19:22
23-May	03:19	19:36	17:55	19:23
24-May	03:18	19:37	17:55	19:24
25-May	03:17	19:38	17:56	19:26
26-May	03:16	19:40	17:57	19:27
27-May	03:14	19:41	17:57	19:28
28-May	03:13	19:42	17:58	19:29
29-May	03:12	19:44	17:59	19:29
30-May	03:11	19:45	18:00	19:30
31-May	03:10	19:46	03:23	03:32
31-May	03:10	19:46	18:01	19:31
01-Jun	03:10	19:47	03:21	03:34
01-Jun	03:10	19:47	18:02	19:32
02-Jun	03:09	19:48	03:20	03:35
02-Jun	03:09	19:48	18:02	19:32
03-Jun	03:08	19:49	03:19	03:36
03-Jun	03:08	19:49	18:03	19:33
04-Jun	03:07	19:50	03:18	03:37
04-Jun	03:07	19:50	18:04	19:33
05-Jun	03:06	19:51	03:18	03:38
05-Jun	03:06	19:51	18:05	19:34
06-Jun	03:06	19:52	03:17	03:39
06-Jun	03:06	19:52	18:06	19:34
07-Jun	03:05	19:53	03:16	03:39
07-Jun	03:05	19:53	18:06	19:35
08-Jun	03:05	19:54	03:16	03:40
08-Jun	03:05	19:54	18:07	19:35
09-Jun	03:04	19:55	03:16	03:41
09-Jun	03:04	19:55	18:08	19:36
10-Jun	03:04	19:56	03:15	03:41
10-Jun	03:04	19:56	18:08	19:36
11-Jun	03:04	19:57	03:15	03:42
11-Jun	03:04	19:57	18:09	19:36
12-Jun	03:03	19:57	03:15	03:42
12-Jun	03:03	19:57	18:10	19:37
13-Jun	03:03	19:58	03:15	03:42

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
13-Jun	03:03	19:58	18:10	19:37
14-Jun	03:03	19:58	03:15	03:43
14-Jun	03:03	19:58	18:11	19:38
15-Jun	03:03	19:59	03:15	03:43
15-Jun	03:03	19:59	18:11	19:38
16-Jun	03:03	19:59	03:15	03:44
16-Jun	03:03	19:59	18:11	19:38
17-Jun	03:03	20:00	03:15	03:44
17-Jun	03:03	20:00	18:12	19:38
18-Jun	03:03	20:00	03:15	03:44
18-Jun	03:03	20:00	18:12	19:39
19-Jun	03:03	20:00	03:16	03:44
19-Jun	03:03	20:00	18:12	19:39
20-Jun	03:03	20:01	03:16	03:45
20-Jun	03:03	20:01	18:13	19:39
21-Jun	03:03	20:01	03:16	03:45
21-Jun	03:03	20:01	18:13	19:39
22-Jun	03:03	20:01	03:16	03:45
22-Jun	03:03	20:01	18:13	19:40
23-Jun	03:04	20:01	03:16	03:45
23-Jun	03:04	20:01	18:13	19:40
24-Jun	03:04	20:01	03:17	03:45
24-Jun	03:04	20:01	18:13	19:40
25-Jun	03:04	20:01	03:17	03:46
25-Jun	03:04	20:01	18:13	19:40
26-Jun	03:05	20:01	03:17	03:46
26-Jun	03:05	20:01	18:13	19:40
27-Jun	03:05	20:01	03:18	03:46
27-Jun	03:05	20:01	18:13	19:40
28-Jun	03:06	20:01	03:18	03:46
28-Jun	03:06	20:01	18:13	19:40
29-Jun	03:07	20:00	03:19	03:46
29-Jun	03:07	20:00	18:13	19:40
30-Jun	03:07	20:00	03:19	03:46
30-Jun	03:07	20:00	18:13	19:40
01-Jul	03:08	20:00	03:20	03:46
01-Jul	03:08	20:00	18:13	19:40
02-Jul	03:09	19:59	03:20	03:46
02-Jul	03:09	19:59	18:12	19:40
03-Jul	03:10	19:59	03:21	03:45
03-Jul	03:10	19:59	18:12	19:40
04-Jul	03:10	19:58	03:22	03:45
04-Jul	03:10	19:58	18:12	19:40
05-Jul	03:11	19:58	03:22	03:45
05-Jul	03:11	19:58	18:11	19:40
06-Jul	03:12	19:57	03:23	03:45
06-Jul	03:12	19:57	18:11	19:40
07-Jul	03:13	19:56	03:24	03:44
07-Jul	03:13	19:56	18:10	19:40

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
08-Jul	03:14	19:56	03:25	03:44
08-Jul	03:14	19:56	18:10	19:39
09-Jul	03:15	19:55	03:26	03:43
09-Jul	03:15	19:55	18:09	19:39
10-Jul	03:16	19:54	03:28	03:42
10-Jul	03:16	19:54	18:09	19:39
11-Jul	03:18	19:53	03:29	03:41
11-Jul	03:18	19:53	18:08	19:38
12-Jul	03:19	19:52	03:32	03:38
12-Jul	03:19	19:52	18:07	19:38
13-Jul	03:20	19:51	18:07	19:37
14-Jul	03:21	19:50	18:06	19:37
15-Jul	03:22	19:49	18:06	19:36
16-Jul	03:24	19:48	18:05	19:35
17-Jul	03:25	19:47	18:05	19:34
18-Jul	03:26	19:45	18:04	19:33
19-Jul	03:28	19:44	18:04	19:32
20-Jul	03:29	19:43	18:03	19:30
21-Jul	03:31	19:41	18:03	19:29
22-Jul	03:32	19:40	18:03	19:28
23-Jul	03:34	19:39	18:02	19:27
24-Jul	03:35	19:37	18:02	19:25
25-Jul	03:37	19:36	18:02	19:23
26-Jul	03:38	19:34	04:28	04:39
26-Jul	03:38	19:34	18:01	19:22
27-Jul	03:40	19:32	04:26	04:42
27-Jul	03:40	19:32	17:58	19:21
28-Jul	03:41	19:31	04:24	04:43
28-Jul	03:41	19:31	17:55	19:20
29-Jul	03:43	19:29	04:23	04:44
29-Jul	03:43	19:29	17:53	19:18
30-Jul	03:45	19:27	04:22	04:45
30-Jul	03:45	19:27	17:52	19:16
31-Jul	03:46	19:26	04:21	04:46
31-Jul	03:46	19:26	17:50	19:15
01-Aug	03:48	19:24	04:20	04:47
01-Aug	03:48	19:24	17:49	19:13
02-Aug	03:49	19:22	04:20	04:48
02-Aug	03:49	19:22	17:48	19:11
03-Aug	03:51	19:20	04:19	04:49
03-Aug	03:51	19:20	17:47	19:10
04-Aug	03:53	19:19	04:19	04:51
04-Aug	03:53	19:19	17:45	19:08
05-Aug	03:54	19:17	04:18	04:52
05-Aug	03:54	19:17	17:44	19:06
06-Aug	03:56	19:15	04:18	04:54
06-Aug	03:56	19:15	17:43	19:04
07-Aug	03:58	19:13	04:18	04:57
07-Aug	03:58	19:13	17:41	19:02

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
08-Aug	03:59	19:11	04:18	04:58
08-Aug	03:59	19:11	17:40	19:00
09-Aug	04:01	19:09	04:18	04:59
09-Aug	04:01	19:09	17:39	18:58
10-Aug	04:03	19:07	04:18	05:01
10-Aug	04:03	19:07	17:39	18:56
11-Aug	04:04	19:05	04:18	05:02
11-Aug	04:04	19:05	17:38	18:55
12-Aug	04:06	19:03	04:18	05:03
12-Aug	04:06	19:03	17:37	18:52
13-Aug	04:08	19:01	04:19	05:05
13-Aug	04:08	19:01	17:36	18:51
14-Aug	04:10	18:59	04:20	05:06
14-Aug	04:10	18:59	17:36	18:49
15-Aug	04:11	18:57	04:20	05:07
15-Aug	04:11	18:57	17:35	18:46
16-Aug	04:13	18:54	04:22	05:08
16-Aug	04:13	18:54	17:34	18:44
17-Aug	04:15	18:52	04:23	05:09
17-Aug	04:15	18:52	17:34	18:42
18-Aug	04:16	18:50	04:25	05:09
18-Aug	04:16	18:50	17:33	18:40
19-Aug	04:18	18:48	04:27	05:09
19-Aug	04:18	18:48	17:33	18:38
20-Aug	04:20	18:46	04:28	05:09
20-Aug	04:20	18:46	17:33	18:36
21-Aug	04:22	18:44	04:30	05:09
21-Aug	04:22	18:44	17:33	18:33
22-Aug	04:23	18:41	04:32	05:09
22-Aug	04:23	18:41	17:32	18:29
23-Aug	04:25	18:39	04:33	05:09
23-Aug	04:25	18:39	17:32	18:24
24-Aug	04:27	18:37	04:35	05:08
24-Aug	04:27	18:37	17:32	18:23
25-Aug	04:28	18:35	04:36	05:07
25-Aug	04:28	18:35	17:32	18:22
26-Aug	04:30	18:32	04:38	05:06
26-Aug	04:30	18:32	05:17	05:31
26-Aug	04:30	18:32	17:33	18:21
27-Aug	04:32	18:30	04:40	05:05
27-Aug	04:32	18:30	05:14	05:33
27-Aug	04:32	18:30	17:33	18:20
28-Aug	04:34	18:28	04:42	05:04
28-Aug	04:34	18:28	05:12	05:35
28-Aug	04:34	18:28	17:33	18:19
29-Aug	04:35	18:25	04:43	05:02
29-Aug	04:35	18:25	05:11	05:36
29-Aug	04:35	18:25	17:34	18:18
30-Aug	04:37	18:23	04:45	05:00

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
30-Aug	04:37	18:23	05:09	05:37
30-Aug	04:37	18:23	17:35	18:16
31-Aug	04:39	18:21	04:48	04:56
31-Aug	04:39	18:21	05:08	05:39
31-Aug	04:39	18:21	17:35	18:14
01-Sep	04:40	18:18	05:07	05:41
01-Sep	04:40	18:18	17:36	18:12
02-Sep	04:42	18:16	05:06	05:42
02-Sep	04:42	18:16	17:38	18:09
03-Sep	04:44	18:14	05:06	05:43
03-Sep	04:44	18:14	17:40	18:05
04-Sep	04:46	18:11	05:05	05:44
04-Sep	04:46	18:11	17:42	18:01
05-Sep	04:47	18:09	05:05	05:45
05-Sep	04:47	18:09	17:46	17:56
06-Sep	04:49	18:06	05:05	05:45
07-Sep	04:51	18:04	05:05	05:45
08-Sep	04:52	18:02	05:05	05:45
09-Sep	04:54	17:59	05:05	05:45
10-Sep	04:56	17:57	05:05	05:45
11-Sep	04:58	17:54	05:06	05:44
12-Sep	04:59	17:52	05:07	05:44
13-Sep	05:01	17:50	05:09	05:43
14-Sep	05:03	17:47	05:11	05:42
15-Sep	05:04	17:45	05:12	05:40
16-Sep	05:06	17:42	05:14	05:39
17-Sep	05:08	17:40	05:16	05:37
17-Sep	05:08	17:40	05:51	05:59
18-Sep	05:10	17:37	05:18	05:35
18-Sep	05:10	17:37	05:47	06:02
19-Sep	05:11	17:35	05:20	05:31
19-Sep	05:11	17:35	05:45	06:04
20-Sep	05:13	17:33	05:43	06:06
21-Sep	05:15	17:30	05:41	06:07
22-Sep	05:16	17:28	05:40	06:07
23-Sep	05:18	17:25	05:39	06:08
24-Sep	05:20	17:23	05:39	06:12
25-Sep	05:22	17:21	05:38	06:14
26-Sep	05:23	17:18	05:38	06:16
27-Sep	05:25	17:16	05:38	06:17
28-Sep	05:27	17:13	05:38	06:18
29-Sep	05:29	17:11	05:38	06:18
30-Sep	05:30	17:08	05:39	06:19
01-Oct	05:32	17:06	05:39	06:19
02-Oct	05:34	17:04	05:41	06:19
03-Oct	05:36	17:01	05:42	06:19
04-Oct	05:37	16:59	05:45	06:18
05-Oct	05:39	16:57	05:49	06:17
06-Oct	05:41	16:54	05:49	06:17

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
07-Oct	05:43	16:52	05:50	06:16
08-Oct	05:45	16:50	05:51	06:14
09-Oct	05:46	16:47	05:53	06:13
10-Oct	05:48	16:45	05:55	06:10
11-Oct	05:50	16:43	05:58	06:07

Turbine 8

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
29-Jan	07:20	16:07	07:28	07:39
30-Jan	07:18	16:09	07:26	07:41
31-Jan	07:17	16:11	07:24	07:43
01-Feb	07:15	16:13	07:22	07:44
02-Feb	07:13	16:15	07:21	07:46
03-Feb	07:12	16:17	07:20	07:47
04-Feb	07:10	16:19	07:19	07:47
05-Feb	07:08	16:21	07:17	07:48
06-Feb	07:06	16:23	07:14	07:49
07-Feb	07:05	16:25	07:12	07:49
08-Feb	07:03	16:26	07:10	07:49
09-Feb	07:01	16:28	07:09	07:49
10-Feb	06:59	16:30	07:06	07:49
11-Feb	06:57	16:32	07:04	07:49
12-Feb	06:55	16:34	07:02	07:49
13-Feb	06:53	16:36	07:01	07:48
14-Feb	06:51	16:38	06:59	07:48
15-Feb	06:49	16:40	06:58	07:47
16-Feb	06:47	16:42	06:58	07:46
17-Feb	06:45	16:44	06:53	07:44
18-Feb	06:43	16:46	06:50	07:43
19-Feb	06:41	16:48	06:48	07:40
20-Feb	06:39	16:50	06:46	07:36
21-Feb	06:37	16:52	06:44	07:35
22-Feb	06:34	16:54	06:42	07:33
23-Feb	06:32	16:56	06:40	07:32
24-Feb	06:30	16:58	06:39	07:30
25-Feb	06:28	17:00	06:36	07:28
26-Feb	06:26	17:01	06:34	07:25
26-Feb	06:26	17:01	16:45	16:50
27-Feb	06:23	17:03	06:32	07:15
27-Feb	06:23	17:03	16:40	16:56
28-Feb	06:21	17:05	06:31	07:15
28-Feb	06:21	17:05	16:37	16:58
29-02	06:19	17:07	06:30	07:15
29-02	06:19	17:07	16:35	17:00
01-Mar	06:17	17:09	06:29	07:15
01-Mar	06:17	17:09	16:33	17:02
02-Mar	06:14	17:11	06:28	07:14
02-Mar	06:14	17:11	16:32	17:04
03-Mar	06:12	17:13	06:27	07:14

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
03-Mar	06:12	17:13	16:30	17:05
04-Mar	06:10	17:15	06:27	07:13
04-Mar	06:10	17:15	16:29	17:06
05-Mar	06:07	17:17	06:26	07:12
05-Mar	06:07	17:17	16:29	17:09
06-Mar	06:05	17:18	06:26	07:11
06-Mar	06:05	17:18	16:28	17:11
07-Mar	06:03	17:20	06:26	07:10
07-Mar	06:03	17:20	16:27	17:13
08-Mar	06:00	17:22	06:26	07:09
08-Mar	06:00	17:22	16:27	17:15
09-Mar	05:58	17:24	06:26	07:07
09-Mar	05:58	17:24	16:27	17:17
10-Mar	05:56	17:26	06:26	07:05
10-Mar	05:56	17:26	16:27	17:18
11-Mar	05:53	17:28	06:27	07:02
11-Mar	05:53	17:28	16:27	17:20
12-Mar	05:51	17:30	06:27	07:00
12-Mar	05:51	17:30	16:27	17:22
13-Mar	05:49	17:31	06:28	06:58
13-Mar	05:49	17:31	16:27	17:24
14-Mar	05:46	17:33	06:29	06:56
14-Mar	05:46	17:33	16:28	17:26
15-Mar	05:44	17:35	05:54	06:03
15-Mar	05:44	17:35	06:31	06:54
15-Mar	05:44	17:35	16:28	17:28
16-Mar	05:41	17:37	05:50	06:07
16-Mar	05:41	17:37	06:34	06:50
16-Mar	05:41	17:37	16:29	17:29
17-Mar	05:39	17:39	05:47	06:09
17-Mar	05:39	17:39	06:39	06:43
17-Mar	05:39	17:39	16:31	17:31
18-Mar	05:37	17:40	05:45	06:10
18-Mar	05:37	17:40	16:32	17:33
19-Mar	05:34	17:42	05:42	06:11
19-Mar	05:34	17:42	16:33	17:35
20-Mar	05:32	17:44	05:40	06:12
20-Mar	05:32	17:44	16:35	17:36
21-Mar	05:29	17:46	05:37	06:12
21-Mar	05:29	17:46	16:37	17:38
22-Mar	05:27	17:48	05:35	06:13
22-Mar	05:27	17:48	16:38	17:39
23-Mar	05:25	17:50	05:33	06:13
23-Mar	05:25	17:50	16:39	17:40
24-Mar	05:22	17:51	05:31	06:13
24-Mar	05:22	17:51	16:40	17:41
25-Mar	05:20	17:53	05:27	06:12
25-Mar	05:20	17:53	16:41	17:41
26-Mar	05:17	17:55	05:24	06:12

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
26-Mar	05:17	17:55	16:42	17:41
27-Mar	05:15	17:57	05:21	06:12
27-Mar	05:15	17:57	16:42	17:42
28-Mar	05:13	17:59	05:19	06:11
28-Mar	05:13	17:59	16:42	17:42
29-Mar	05:10	18:00	05:16	06:10
29-Mar	05:10	18:00	16:42	17:42
30-Mar	05:08	18:02	05:14	06:09
30-Mar	05:08	18:02	16:43	17:42
31-Mar	05:05	18:04	05:12	06:08
31-Mar	05:05	18:04	16:43	17:42
01-Apr	05:03	18:06	05:10	06:06
01-Apr	05:03	18:06	16:43	17:41
02-Apr	05:01	18:08	05:07	06:04
02-Apr	05:01	18:08	16:44	17:41
03-Apr	04:58	18:09	05:05	06:02
03-Apr	04:58	18:09	16:45	17:40
04-Apr	04:56	18:11	05:03	06:00
04-Apr	04:56	18:11	16:46	17:40
05-Apr	04:54	18:13	05:01	05:59
05-Apr	04:54	18:13	16:46	17:39
06-Apr	04:51	18:15	04:59	05:57
06-Apr	04:51	18:15	16:47	17:38
07-Apr	04:49	18:17	04:57	05:55
07-Apr	04:49	18:17	16:49	17:37
08-Apr	04:46	18:18	04:56	05:53
08-Apr	04:46	18:18	16:50	17:36
09-Apr	04:44	18:20	04:55	05:50
09-Apr	04:44	18:20	16:53	17:34
10-Apr	04:42	18:22	04:54	05:47
10-Apr	04:42	18:22	16:56	17:33
11-Apr	04:39	18:24	04:54	05:45
11-Apr	04:39	18:24	16:59	17:31
12-Apr	04:37	18:26	04:53	05:43
12-Apr	04:37	18:26	17:00	17:29
13-Apr	04:35	18:27	04:53	05:41
13-Apr	04:35	18:27	17:02	17:27
14-Apr	04:33	18:29	04:53	05:40
14-Apr	04:33	18:29	17:04	17:24
15-Apr	04:30	18:31	04:53	05:38
15-Apr	04:30	18:31	17:08	17:19
16-Apr	04:28	18:33	04:53	05:37
17-Apr	04:26	18:35	04:53	05:35
18-Apr	04:24	18:36	04:53	05:33
19-Apr	04:21	18:38	04:54	05:31
20-Apr	04:19	18:40	04:55	05:27
21-Apr	04:17	18:42	04:56	05:22
22-Apr	04:15	18:44	04:58	05:16
23-Apr	04:13	18:45	05:01	05:13

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
30-Apr	03:58	18:58	04:08	04:17
01-May	03:56	19:00	04:04	04:20
02-May	03:54	19:01	04:02	04:24
03-May	03:52	19:03	04:00	04:27
04-May	03:50	19:05	03:58	04:28
05-May	03:48	19:07	03:57	04:30
06-May	03:46	19:08	03:56	04:31
07-May	03:44	19:10	03:54	04:32
08-May	03:43	19:12	03:54	04:33
09-May	03:41	19:13	03:53	04:34
10-May	03:39	19:15	03:52	04:34
11-May	03:37	19:17	03:51	04:35
12-May	03:36	19:18	03:51	04:36
13-May	03:34	19:20	03:50	04:36
14-May	03:32	19:22	03:49	04:37
15-May	03:31	19:23	03:49	04:37
16-May	03:29	19:25	03:48	04:37
17-May	03:28	19:26	03:48	04:38
18-May	03:26	19:28	03:48	04:38
19-May	03:25	19:30	03:48	04:38
20-May	03:23	19:31	03:47	04:38
21-May	03:22	19:33	03:47	04:38
22-May	03:20	19:34	03:47	04:39
23-May	03:19	19:36	03:47	04:39
24-May	03:18	19:37	03:47	04:39
25-May	03:17	19:38	03:47	04:39
26-May	03:16	19:40	03:47	04:39
27-May	03:14	19:41	03:47	04:39
28-May	03:13	19:42	03:48	04:39
29-May	03:12	19:44	03:48	04:39
30-May	03:11	19:45	03:48	04:39
31-May	03:10	19:46	03:48	04:39
01-Jun	03:10	19:47	03:48	04:39
02-Jun	03:09	19:48	03:20	03:27
02-Jun	03:09	19:48	03:49	04:39
03-Jun	03:08	19:49	03:18	03:29
03-Jun	03:08	19:49	03:49	04:39
04-Jun	03:07	19:50	03:16	03:31
04-Jun	03:07	19:50	03:49	04:39
05-Jun	03:06	19:51	03:15	03:32
05-Jun	03:06	19:51	03:50	04:39
06-Jun	03:06	19:52	03:15	03:33
06-Jun	03:06	19:52	03:50	04:39
07-Jun	03:05	19:53	03:14	03:34
07-Jun	03:05	19:53	03:50	04:39
08-Jun	03:05	19:54	03:14	03:35
08-Jun	03:05	19:54	03:50	04:39
09-Jun	03:04	19:55	03:13	03:36
09-Jun	03:04	19:55	03:51	04:39

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
10-Jun	03:04	19:56	03:13	03:36
10-Jun	03:04	19:56	03:51	04:39
11-Jun	03:04	19:57	03:12	03:37
11-Jun	03:04	19:57	03:51	04:39
12-Jun	03:03	19:57	03:12	03:37
12-Jun	03:03	19:57	03:52	04:39
13-Jun	03:03	19:58	03:12	03:38
13-Jun	03:03	19:58	03:52	04:40
14-Jun	03:03	19:58	03:12	03:38
14-Jun	03:03	19:58	03:52	04:40
15-Jun	03:03	19:59	03:12	03:39
15-Jun	03:03	19:59	03:53	04:40
16-Jun	03:03	19:59	03:12	03:39
16-Jun	03:03	19:59	03:53	04:40
17-Jun	03:03	20:00	03:12	03:39
17-Jun	03:03	20:00	03:53	04:40
18-Jun	03:03	20:00	03:12	03:40
18-Jun	03:03	20:00	03:53	04:40
19-Jun	03:03	20:00	03:12	03:40
19-Jun	03:03	20:00	03:54	04:40
20-Jun	03:03	20:01	03:12	03:40
20-Jun	03:03	20:01	03:54	04:41
21-Jun	03:03	20:01	03:12	03:41
21-Jun	03:03	20:01	03:54	04:41
22-Jun	03:03	20:01	03:12	03:41
22-Jun	03:03	20:01	03:54	04:41
23-Jun	03:04	20:01	03:13	03:41
23-Jun	03:04	20:01	03:55	04:41
24-Jun	03:04	20:01	03:13	03:41
24-Jun	03:04	20:01	03:55	04:42
25-Jun	03:04	20:01	03:14	03:41
25-Jun	03:04	20:01	03:55	04:42
26-Jun	03:05	20:01	03:14	03:41
26-Jun	03:05	20:01	03:55	04:42
27-Jun	03:05	20:01	03:14	03:41
27-Jun	03:05	20:01	03:55	04:42
28-Jun	03:06	20:01	03:15	03:41
28-Jun	03:06	20:01	03:55	04:43
29-Jun	03:07	20:00	03:16	03:41
29-Jun	03:07	20:00	03:55	04:43
30-Jun	03:07	20:00	03:16	03:41
30-Jun	03:07	20:00	03:55	04:43
01-Jul	03:08	20:00	03:17	03:41
01-Jul	03:08	20:00	03:56	04:44
02-Jul	03:09	19:59	03:18	03:41
02-Jul	03:09	19:59	03:56	04:44
03-Jul	03:10	19:59	03:19	03:40
03-Jul	03:10	19:59	03:56	04:44
04-Jul	03:10	19:58	03:19	03:40

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
04-Jul	03:10	19:58	03:56	04:45
05-Jul	03:11	19:58	03:20	03:40
05-Jul	03:11	19:58	03:56	04:45
06-Jul	03:12	19:57	03:21	03:39
06-Jul	03:12	19:57	03:56	04:45
07-Jul	03:13	19:56	03:22	03:38
07-Jul	03:13	19:56	03:56	04:46
08-Jul	03:14	19:56	03:24	03:37
08-Jul	03:14	19:56	03:56	04:46
09-Jul	03:15	19:55	03:25	03:36
09-Jul	03:15	19:55	03:56	04:46
10-Jul	03:16	19:54	03:29	03:33
10-Jul	03:16	19:54	03:56	04:47
11-Jul	03:18	19:53	03:56	04:47
12-Jul	03:19	19:52	03:56	04:47
13-Jul	03:20	19:51	03:56	04:47
14-Jul	03:21	19:50	03:56	04:48
15-Jul	03:22	19:49	03:56	04:48
16-Jul	03:24	19:48	03:56	04:48
17-Jul	03:25	19:47	03:56	04:48
18-Jul	03:26	19:45	03:57	04:48
19-Jul	03:28	19:44	03:57	04:48
20-Jul	03:29	19:43	03:57	04:48
21-Jul	03:31	19:41	03:57	04:48
22-Jul	03:32	19:40	03:57	04:48
23-Jul	03:34	19:39	03:57	04:48
24-Jul	03:35	19:37	03:58	04:48
25-Jul	03:37	19:36	03:58	04:48
26-Jul	03:38	19:34	03:58	04:48
27-Jul	03:40	19:32	03:59	04:47
28-Jul	03:41	19:31	03:59	04:47
29-Jul	03:43	19:29	04:00	04:47
30-Jul	03:45	19:27	04:00	04:46
31-Jul	03:46	19:26	04:01	04:46
01-Aug	03:48	19:24	04:02	04:45
02-Aug	03:49	19:22	04:02	04:44
03-Aug	03:51	19:20	04:03	04:43
04-Aug	03:53	19:19	04:03	04:42
05-Aug	03:54	19:17	04:04	04:41
06-Aug	03:56	19:15	04:05	04:40
07-Aug	03:58	19:13	04:06	04:39
08-Aug	03:59	19:11	04:08	04:37
09-Aug	04:01	19:09	04:09	04:35
10-Aug	04:03	19:07	04:11	04:32
11-Aug	04:04	19:05	04:13	04:28
12-Aug	04:06	19:03	04:17	04:23
19-Aug	04:18	18:48	05:05	05:19
20-Aug	04:20	18:46	05:02	05:22
21-Aug	04:22	18:44	05:00	05:28

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
22-Aug	04:23	18:41	04:59	05:32
23-Aug	04:25	18:39	04:57	05:35
24-Aug	04:27	18:37	04:56	05:37
25-Aug	04:28	18:35	04:55	05:38
26-Aug	04:30	18:32	04:55	05:39
26-Aug	04:30	18:32	17:09	17:22
27-Aug	04:32	18:30	04:54	05:40
27-Aug	04:32	18:30	17:05	17:26
28-Aug	04:34	18:28	04:53	05:41
28-Aug	04:34	18:28	17:02	17:28
29-Aug	04:35	18:25	04:53	05:41
29-Aug	04:35	18:25	17:00	17:30
30-Aug	04:37	18:23	04:53	05:43
30-Aug	04:37	18:23	16:58	17:31
31-Aug	04:39	18:21	04:53	05:44
31-Aug	04:39	18:21	16:55	17:32
01-Sep	04:40	18:18	04:53	05:46
01-Sep	04:40	18:18	16:51	17:33
02-Sep	04:42	18:16	04:53	05:48
02-Sep	04:42	18:16	16:48	17:34
03-Sep	04:44	18:14	04:53	05:50
03-Sep	04:44	18:14	16:46	17:34
04-Sep	04:46	18:11	04:54	05:52
04-Sep	04:46	18:11	16:44	17:34
05-Sep	04:47	18:09	04:55	05:53
05-Sep	04:47	18:09	16:42	17:35
06-Sep	04:49	18:06	04:56	05:54
06-Sep	04:49	18:06	16:41	17:35
07-Sep	04:51	18:04	04:58	05:55
07-Sep	04:51	18:04	16:39	17:35
08-Sep	04:52	18:02	04:59	05:56
08-Sep	04:52	18:02	16:38	17:35
09-Sep	04:54	17:59	05:01	05:58
09-Sep	04:54	17:59	16:37	17:35
10-Sep	04:56	17:57	05:02	05:59
10-Sep	04:56	17:57	16:36	17:34
11-Sep	04:58	17:54	05:04	06:00
11-Sep	04:58	17:54	16:35	17:34
12-Sep	04:59	17:52	05:06	06:01
12-Sep	04:59	17:52	16:34	17:33
13-Sep	05:01	17:50	05:07	06:01
13-Sep	05:01	17:50	16:33	17:33
14-Sep	05:03	17:47	05:09	06:01
14-Sep	05:03	17:47	16:33	17:32
15-Sep	05:04	17:45	05:11	06:01
15-Sep	05:04	17:45	16:32	17:31
16-Sep	05:06	17:42	05:12	06:01
16-Sep	05:06	17:42	16:30	17:30
17-Sep	05:08	17:40	05:14	06:01

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
17-Sep	05:08	17:40	16:28	17:29
18-Sep	05:10	17:37	05:18	06:00
18-Sep	05:10	17:37	16:27	17:28
19-Sep	05:11	17:35	05:20	06:00
19-Sep	05:11	17:35	16:25	17:26
20-Sep	05:13	17:33	05:21	05:59
20-Sep	05:13	17:33	16:24	17:24
21-Sep	05:15	17:30	05:23	05:58
21-Sep	05:15	17:30	16:21	17:22
22-Sep	05:16	17:28	05:24	05:57
22-Sep	05:16	17:28	16:19	17:20
23-Sep	05:18	17:25	05:26	05:56
23-Sep	05:18	17:25	16:17	17:18
24-Sep	05:20	17:23	05:28	05:54
24-Sep	05:20	17:23	16:15	17:15
25-Sep	05:22	17:21	05:30	05:52
25-Sep	05:22	17:21	16:13	17:13
26-Sep	05:23	17:18	05:32	05:50
26-Sep	05:23	17:18	06:17	06:32
26-Sep	05:23	17:18	16:11	17:11
27-Sep	05:25	17:16	05:34	05:47
27-Sep	05:25	17:16	06:14	06:35
27-Sep	05:25	17:16	16:10	17:08
28-Sep	05:27	17:13	06:11	06:37
28-Sep	05:27	17:13	16:09	17:06
29-Sep	05:29	17:11	06:10	06:39
29-Sep	05:29	17:11	16:08	17:03
30-Sep	05:30	17:08	06:08	06:40
30-Sep	05:30	17:08	16:07	17:01
01-Oct	05:32	17:06	06:07	06:41
01-Oct	05:32	17:06	16:06	16:59
02-Oct	05:34	17:04	06:06	06:43
02-Oct	05:34	17:04	16:06	16:56
03-Oct	05:36	17:01	06:05	06:45
03-Oct	05:36	17:01	16:05	16:54
04-Oct	05:37	16:59	06:04	06:46
04-Oct	05:37	16:59	16:05	16:52
05-Oct	05:39	16:57	06:03	06:47
05-Oct	05:39	16:57	16:05	16:49
06-Oct	05:41	16:54	06:03	06:48
06-Oct	05:41	16:54	16:05	16:47
07-Oct	05:43	16:52	06:03	06:48
07-Oct	05:43	16:52	16:05	16:44
08-Oct	05:45	16:50	06:02	06:49
08-Oct	05:45	16:50	16:06	16:41
09-Oct	05:46	16:47	06:02	06:49
09-Oct	05:46	16:47	16:06	16:40
10-Oct	05:48	16:45	06:02	06:49
10-Oct	05:48	16:45	16:07	16:38

Day-Month	SunriseHours:Minutes	SunsetHours:Minutes	BeginHours:Minutes	EndHours:Minutes
11-Oct	05:50	16:43	06:03	06:49
11-Oct	05:50	16:43	16:08	16:36
12-Oct	05:52	16:40	06:03	06:49
12-Oct	05:52	16:40	16:09	16:33
13-Oct	05:54	16:38	06:04	06:49
13-Oct	05:54	16:38	16:11	16:31
14-Oct	05:55	16:36	06:05	06:48
14-Oct	05:55	16:36	16:14	16:27
15-Oct	05:57	16:33	06:06	06:50
15-Oct	05:57	16:33	06:49	06:55
16-Oct	05:59	16:31	06:08	06:59
17-Oct	06:01	16:29	06:09	07:01
18-Oct	06:03	16:27	06:11	07:03
19-Oct	06:05	16:25	06:12	07:04
20-Oct	06:06	16:22	06:14	07:05
21-Oct	06:08	16:20	06:15	07:06
22-Oct	06:10	16:18	06:17	07:08
23-Oct	06:12	16:16	06:19	07:12
24-Oct	06:14	16:14	06:21	07:14
25-Oct	06:16	16:12	06:25	07:15
26-Oct	06:18	16:10	06:28	07:16
27-Oct	06:19	16:08	06:28	07:17
28-Oct	06:21	16:06	06:29	07:18
29-Oct	06:23	16:04	06:30	07:18
30-Oct	06:25	16:02	06:32	07:18
31-Oct	06:27	16:00	06:34	07:19
01-Nov	06:29	15:58	06:37	07:19
02-Nov	06:31	15:56	06:38	07:19
03-Nov	06:33	15:54	06:40	07:19
04-Nov	06:35	15:52	06:42	07:18
05-Nov	06:36	15:50	06:44	07:18
06-Nov	06:38	15:48	06:48	07:18
07-Nov	06:40	15:47	06:49	07:17
08-Nov	06:42	15:45	06:50	07:16
09-Nov	06:44	15:43	06:52	07:16
10-Nov	06:46	15:42	06:53	07:15
11-Nov	06:48	15:40	06:55	07:13
12-Nov	06:50	15:38	06:57	07:12
13-Nov	06:51	15:37	07:00	07:09