

SUNRISE/SUNSET, 2022

1. The Sunrise/Sunset tables on the following pages have been prepared by the Department of Hydrology and Meteorology of Nepal for TIA, Kathmandu; Biratnagar Airport, Biratnagar ; Pokhara Airport, Pokhara ; Gautam Buddha Airport, Bhairahawa ; Nepalgunj Airport, Nepalgunj and are reproduced here with their permission.
 - 1.1 The times in the table are given in UTC for beginning of civil morning twilight (TWIL FROM), Sunrise (SR) Sunset (SS), and end of civil evening twilight (TWIL TO) for the year 2022.
 - 1.2 The times given for the beginning of civil morning twilight and end of civil evening twilight are calculated for an altitude of the Sun 6° below the horizon, as commonly used.

Sunrise-Sunset

KATHMANDU

VNKT

274146N, 0852138E

2022 SUNRISE SUNSET TWIL FROM TWIL TO IN UTC TIME

JANUARY	TWIL FROM	SUNRISE	SUNSET	TWIL TO	FEBRUARY	TWIL FROM	SUNRISE	SUNSET	TWIL TO
1-3	00 55	01 10	11 33	11 48	1-4	00 50	01 05	11 59	12 14
4-7	00 55	01 10	11 36	11 51	5-8	00 48	01 03	12 02	12 17
8-11	00 56	01 11	11 39	11 54	9-12	00 46	01 01	12 05	12 20
12-15	00 56	01 11	11 43	11 58	13-16	00 43	00 58	12 08	12 23
16-19	00 56	01 11	11 46	12 01	17-20	00 39	00 54	12 11	12 26
20-23	00 55	01 10	11 49	12 04	21-24	00 36	00 51	12 14	12 29
24-27	00 54	01 09	11 52	12 07	25-28	00 33	00 48	12 16	12 31
28-31	00 53	01 08	11 55	12 10					

MARCH	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 28	00 43	12 19	12 34
5-8	00 24	00 39	12 21	12 36
9-12	00 20	00 35	12 23	12 38
13-16	00 16	00 31	12 26	12 41
17-20	00 11	00 26	12 28	12 43
21-24	00 07	00 22	12 30	12 45
25-28	00 02	00 17	12 32	12 47
29-31	23 57	00 12	12 35	12 50

MAY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 25	23 40	12 52	13 07
4-7	23 22	23 37	12 54	13 09
8-11	23 19	23 34	12 57	13 12
12-15	23 16	23 31	12 59	13 14
16-19	23 14	23 29	13 01	13 16
20-23	23 12	23 27	13 03	13 18
24-27	23 10	23 25	13 06	13 21
28-31	23 09	23 24	13 08	13 23

APRIL	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	23 57	00 12	12 35	12 50
2-5	23 53	00 08	12 36	12 51
6-9	23 49	00 04	12 39	12 54
10-13	23 44	23 59	12 41	12 56
14-17	23 40	23 55	12 43	12 58
18-21	23 36	23 51	12 45	13 00
22-25	23 32	23 47	12 47	13 02
26-29	23 28	23 43	12 50	13 05
30	23 25	23 40	12 52	13 07

JUNE	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 08	23 23	13 10	13 25
5-8	23 07	23 22	13 12	13 27
9-12	23 07	23 22	13 14	13 29
13-16	23 07	23 22	13 15	13 30
17-20	23 08	23 23	13 16	13 31
21-24	23 08	23 23	13 17	13 32
25-28	23 09	23 24	13 18	13 33
29-30	23 11	23 26	13 18	13 33

JULY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	23 11	23 26	13 18	13 33
3-6	23 12	23 27	13 19	13 34
7-10	23 13	23 28	13 19	13 34
11-14	23 15	23 30	13 18	13 33
15-18	23 17	23 32	13 17	13 32
19-22	23 19	23 34	13 15	13 30
23-26	23 22	23 37	13 13	13 28
27-30	23 24	23 39	13 11	13 26
31	23 25	23 40	13 09	13 24

OCTOBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	23 55	00 10	12 07	12 22
3-6	23 57	00 12	12 02	12 17
7-10	23 59	00 14	11 58	12 13
11-14	00 01	00 16	11 54	12 09
15-18	00 04	00 19	11 50	12 05
19-22	00 06	00 21	11 46	12 01
23-26	00 08	00 23	11 42	11 57
27-30	00 11	00 26	11 39	11 54
31	00 14	00 29	11 35	11 50

AUGUST	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 25	23 40	13 09	13 24
4-7	23 28	23 43	13 06	13 21
8-11	23 30	23 45	13 03	13 18
12-15	23 32	23 47	12 60	13 14
16-19	23 34	23 49	12 56	13 11
20-23	23 36	23 51	12 52	13 07
24-27	23 38	23 53	12 48	13 03
28-31	23 40	23 55	12 44	12 59

NOVEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	00 14	00 29	11 35	11 50
4-7	00 17	00 32	11 33	11 48
8-11	00 19	00 34	11 30	11 45
12-15	00 22	00 37	11 28	11 43
16-19	00 26	00 41	11 26	11 41
20-23	00 29	00 44	11 24	11 39
24-27	00 31	00 46	11 24	11 39
28-30	00 34	00 49	11 23	11 38

SEPTEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 42	23 57	12 40	12 55
5-8	23 44	23 59	12 35	12 50
9-12	23 46	00 01	12 30	12 45
13-16	23 47	00 02	12 26	12 41
17-20	23 49	00 04	12 21	12 36
21-24	23 52	00 07	12 16	12 31
25-28	23 53	00 08	12 12	12 27
29-30	23 55	00 10	12 07	12 22

DECEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	00 34	00 49	11 23	11 38
2-5	00 38	00 53	11 23	11 38
6-9	00 41	00 56	11 23	11 38
10-13	00 44	00 59	11 24	11 39
14-17	00 46	01 01	11 25	11 40
18-21	00 49	01 04	11 26	11 41
22-25	00 51	01 06	11 28	11 43
26-29	00 53	01 08	11 30	11 45
30	00 54	01 09	11 33	11 48
31	00 55	01 10	11 35	11 50

SUNRISE-SUNSET
BIRATNAGAR (VNVT)
26 29 03N, 087 15 52E

JANUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	00 45	01 00	11 28	11 43
4-7	00 45	01 00	11 31	11 46
8-11	00 46	01 01	11 34	11 49
12-15	00 46	01 01	11 38	11 53
16-19	00 46	01 01	11 41	11 56
20-23	00 46	01 01	11 43	11 58
24-27	00 44	00 59	11 47	12 02
28-31	00 43	00 58	11 50	12 05

APRIL	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	23 50	00 05	12 27	12 42
2-5	23 46	00 01	12 28	12 43
6-9	23 42	23 57	12 31	12 46
10-13	23 37	23 52	12 32	12 47
14-17	23 34	23 49	12 34	12 49
18-21	23 29	23 44	12 36	12 51
22-25	23 26	23 41	12 38	12 53
26-29	23 22	23 37	12 41	12 56
30	23 19	23 34	12 43	12 58

FEBRUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 41	00 56	11 53	12 08
5-8	00 39	00 54	11 56	12 11
9-12	00 36	00 51	11 59	12 14
13-16	00 34	00 49	12 02	12 17
17-20	00 30	00 45	12 04	12 19
21-24	00 28	00 43	12 07	12 22
25-28	00 24	00 39	12 09	12 24

MAY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 19	23 34	12 43	12 58
4-7	23 16	23 31	12 45	13 00
8-11	23 13	23 28	12 47	13 02
12-15	23 11	23 26	12 49	13 04
16-19	23 08	23 23	12 52	13 07
20-23	23 06	23 21	12 54	13 09
24-27	23 05	23 20	12 56	13 11
28-31	23 04	23 19	12 58	13 13

MARCH	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 20	00 35	12 12	12 27
5-8	00 16	00 31	12 14	12 29
9-12	00 12	00 27	12 16	12 31
13-16	00 08	00 23	12 19	12 34
17-20	00 04	00 19	12 20	12 35
21-24	23 59	00 14	12 23	12 38
25-28	23 55	00 10	12 24	12 39
29-31	23 50	00 05	12 27	12 42

JUNE	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 03	23 18	12 60	13 14
5-8	23 02	23 17	13 02	13 17
9-12	23 02	23 17	13 04	13 19
13-16	23 02	23 17	13 05	13 20
17-20	23 03	23 18	13 06	13 21
21-24	23 03	23 18	13 07	13 22
25-28	23 04	23 19	13 08	13 23
29-30	23 06	23 21	13 08	13 23

JULY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	23 06	23 21	13 08	13 23
3-6	23 07	23 22	13 09	13 24
7-10	23 08	23 23	13 09	13 24
11-14	23 10	23 25	13 08	13 23
15-18	23 12	23 27	13 07	13 22
19-22	23 14	23 29	13 05	13 20
23-26	23 16	23 31	13 04	13 19
27-30	23 18	23 33	13 02	13 17
31	23 20	23 35	12 59	13 14

OCTOBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1-2	23 47	00 02	11 60	12 14
3-7	23 49	00 04	11 55	12 10
7-10	23 51	00 06	11 51	12 06
11-14	23 53	00 08	11 47	12 02
15-18	23 55	00 10	11 43	11 58
19-22	23 57	00 12	11 39	11 54
23-26	00 00	00 15	11 35	11 50
27-30	00 02	00 17	11 32	11 47
31	00 05	00 20	11 29	11 44

AUGUST	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 20	23 35	12 59	13 14
4-7	23 22	23 37	12 57	13 12
8-11	23 24	23 39	12 54	13 09
12-15	23 26	23 41	12 50	13 05
16-19	23 28	23 43	12 47	13 02
20-23	23 30	23 45	12 43	12 58
24-27	23 31	23 46	12 39	12 54
28-31	23 34	23 49	12 36	12 51

NOVEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	00 05	00 20	11 29	11 44
4-7	00 07	00 22	11 27	11 42
8-11	00 10	00 25	11 24	11 39
12-15	00 13	00 28	11 22	11 37
16-19	00 16	00 31	11 21	11 36
20-23	00 19	00 34	11 19	11 34
24-27	00 22	00 37	11 18	11 33
28-30	00 24	00 39	11 18	11 33

SEPTEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 35	23 50	12 31	12 46
5-8	23 37	23 52	12 27	12 42
9-12	23 39	23 54	12 22	12 37
13-16	23 40	23 55	12 18	12 33
17-20	23 42	23 57	12 13	12 28
21-24	23 44	23 59	12 09	12 24
25-28	23 46	00 01	12 04	12 19
29-30	23 47	00 02	11 60	12 14

DECEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	00 24	00 39	11 18	11 33
2-5	00 28	00 43	11 18	11 33
6-9	00 31	00 46	11 18	11 33
10-13	00 34	00 49	11 19	11 34
14-17	00 36	00 51	11 20	11 35
18-21	00 39	00 54	11 21	11 36
22-25	00 41	00 56	11 23	11 38
26-29	00 43	00 58	11 25	11 40
30	00 44	00 59	11 28	11 43
31	00 45	01 00	11 30	11 45

SUNRISE/SUNSET 2022
POKHARA (VNPK)
28 11 57N, 083 58 43E

JANUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	01 01	01 16	11 38	11 53
4-7	01 01	01 16	11 41	11 56
8-11	01 02	01 17	11 44	11 59
12-15	01 03	01 18	11 47	12 02
16-19	01 03	01 18	11 51	12 06
20-23	01 02	01 17	11 53	12 08
24-27	01 00	01 15	11 57	12 12
28-31	00 59	01 14	11 60	12 14

FEBURARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 57	01 12	12 04	12 19
5-8	00 55	01 10	12 07	12 22
9-12	00 52	01 07	12 10	12 25
13-16	00 49	01 04	12 13	12 28
17-20	00 45	01 00	12 16	12 31
21-24	00 42	00 57	12 19	12 34
25-28	00 39	00 54	12 21	12 36

MARCH	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 34	00 49	12 24	12 39
5-8	00 30	00 45	12 27	12 42
9-12	00 26	00 41	12 29	12 44
13-16	00 22	00 37	12 31	12 46
17-20	00 17	00 32	12 33	12 48
21-24	00 12	00 27	12 36	12 51
25-28	00 07	00 22	12 38	12 53
29-31	00 03	00 18	12 40	12 55

APRIL	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	00 03	00 18	12 40	12 55
2-5	23 59	00 14	12 42	12 57
6-9	23 54	00 09	12 45	13 00
10-13	23 49	00 04	12 47	13 02
14-17	23 46	00 01	12 49	13 04
18-21	23 41	23 56	12 51	13 06
22-25	23 37	23 52	12 53	13 08
26-29	23 33	23 48	12 56	13 11
30	23 30	23 45	12 59	13 14

MAY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 30	23 45	12 59	13 14
4-7	23 27	23 42	13 01	13 16
8-11	23 24	23 39	13 03	13 18
12-15	23 21	23 36	13 05	13 20
16-19	23 18	23 33	13 08	13 23
20-23	23 16	23 31	13 10	13 25
24-27	23 15	23 30	13 13	13 28
28-31	23 14	23 29	13 14	13 29
JUNE	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 13	23 28	13 16	13 31
5-8	23 12	23 27	13 18	13 33
9-12	23 11	23 26	13 20	13 35
13-16	23 11	23 26	13 22	13 37
17-20	23 12	23 27	13 23	13 38
21-24	23 12	23 27	13 24	13 39
25-28	23 13	23 28	13 25	13 40
29-30	23 15	23 30	13 25	13 40

JULY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	23 15	23 30	13 25	13 40
3-6	23 16	23 31	13 25	13 40
7-10	23 18	23 33	13 25	13 40
11-14	23 20	23 35	13 24	13 39
15-18	23 22	23 37	13 23	13 38
19-22	23 24	23 39	13 22	13 37
23-26	23 26	23 41	13 20	13 35
27-30	23 28	23 43	13 18	13 33
31	23 30	23 45	13 15	13 30

OCTOBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	00 01	00 16	12 12	12 27
3-6	00 03	00 18	12 08	12 23
7-10	00 05	00 20	12 04	12 19
11-14	00 07	00 22	11 59	12 14
15-18	00 10	00 25	11 55	12 10
19-22	00 12	00 27	11 51	12 06
23-26	00 14	00 29	11 47	12 02
27-30	00 17	00 32	11 44	11 59
31	00 20	00 35	11 40	11 55

AUGUST	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 30	23 45	13 15	13 30
4-7	23 33	23 48	13 12	13 27
8-11	23 35	23 50	13 09	13 24
12-15	23 37	23 52	13 06	13 21
16-19	23 39	23 54	13 02	13 17
20-23	23 41	23 56	12 58	13 13
24-27	23 43	23 58	12 54	13 09
28-31	23 46	00 01	12 50	13 05

NOVEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	00 20	00 35	11 40	11 55
4-7	00 23	00 38	11 37	11 52
8-11	00 26	00 41	11 35	11 50
12-15	00 28	00 43	11 33	11 48
16-19	00 32	00 47	11 31	11 46
20-23	00 35	00 50	11 29	11 44
24-27	00 38	00 53	11 28	11 43
28-30	00 41	00 56	11 27	11 42

SEPTEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 47	00 02	12 46	13 01
5-8	23 49	00 04	12 41	12 56
9-12	23 51	00 06	12 36	12 51
13-16	23 53	00 08	12 32	12 47
17-20	23 55	00 10	12 27	12 42
21-24	23 57	00 12	12 22	12 37
25-28	23 59	00 14	12 17	12 32
29-30	00 01	00 16	12 12	12 27

DECEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	00 41	00 56	11 27	11 42
2-5	00 44	00 59	11 27	11 42
6-9	00 47	01 02	11 28	11 43
10-13	00 50	01 05	11 29	11 44
14-17	00 52	01 07	11 30	11 45
18-21	00 55	01 10	11 31	11 46
22-25	00 57	01 12	11 33	11 48
26-29	00 59	01 14	11 35	11 50
30	01 00	01 15	11 38	11 53
31	01 01	01 16	11 40	11 55

SUNRISE/SUNSET
Bhairawaha (VNBW)
27 30 26N, 083 25 05E

JANUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	01 02	01 17	11 42	11 57
4-7	01 02	01 17	11 45	12 00
8-11	01 03	01 18	11 47	12 02
12-15	01 04	01 19	11 51	12 06
16-19	01 04	01 19	11 54	12 09
20-23	01 03	01 18	11 57	12 12
24-27	01 01	01 16	12 01	12 16
28-31	01 00	01 15	12 03	12 18

FEBURARY	TWILFROM	SUNRISE	SUNSET	TWILTO
1-4	00 58	01 13	12 07	12 22
5-8	00 56	01 11	12 10	12 25
9-12	00 53	01 08	12 13	12 28
13-16	00 50	01 05	12 16	12 31
17-20	00 47	01 02	12 19	12 34
21-24	00 44	00 59	12 22	12 37
25-28	00 40	00 55	12 24	12 39

MARCH	TWILFROM	SUNRISE	SUNSET	TWILTO
1-4	00 36	00 51	12 27	12 42
5-8	00 32	00 47	12 29	12 44
9-12	00 28	00 43	12 31	12 46
13-16	00 24	00 39	12 34	12 49
17-20	00 19	00 34	12 36	12 51
21-24	00 15	00 30	12 38	12 53
25-28	00 10	00 25	12 40	12 55
29-31	00 05	00 20	12 42	12 57

APRIL	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	00 05	00 20	12 42	12 57
2-5	00 01	00 16	12 44	12 59
6-9	23 57	00 12	12 47	13 02
10-13	23 52	00 07	12 49	13 04
14-17	23 48	00 03	12 50	13 05
18-21	23 44	23 59	12 53	13 08
22-25	23 40	23 55	12 55	13 10
26-29	23 36	23 51	12 57	13 12
30	23 33	23 48	13 00	13 14

MAY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	23 33	23 48	13 00	13 14
4-7	23 30	23 45	13 02	13 17
8-11	23 27	23 42	13 04	13 19
12-15	23 24	23 39	13 06	13 21
16-19	23 22	23 37	13 09	13 24
20-23	23 20	23 35	13 11	13 26
24-27	23 18	23 33	13 14	13 29
28-31	23 17	23 32	13 15	13 30

JUNE	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 16	23 31	13 17	13 32
5-8	23 16	23 31	13 19	13 34
9-12	23 15	23 30	13 21	13 36
13-16	23 15	23 30	13 23	13 38
17-20	23 16	23 31	13 24	13 39
21-24	23 16	23 31	13 25	13 40
25-28	23 17	23 32	13 26	13 41
29-30	23 19	23 34	13 26	13 41

JULY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	23 19	23 34	13 26	13 41
3-6	23 20	23 35	13 26	13 41
7-10	23 22	23 37	13 26	13 41
11-14	23 24	23 39	13 25	13 40
15-18	23 25	23 40	13 24	13 39
19-22	23 27	23 42	13 23	13 38
23-26	23 30	23 45	13 21	13 36
27-30	23 32	23 47	13 19	13 34
31	23 34	23 49	13 16	13 31
AUGUST	TWILFROM	SUNRISE	SUNSET	TWILTO
1-3	23 34	23 49	13 16	13 31
4-7	23 36	23 51	13 14	13 29
8-11	23 38	23 53	13 11	13 26
12-15	23 40	23 55	13 07	13 22
16-19	23 42	23 57	13 03	13 18
20-23	23 44	23 59	13 00	13 14
24-27	23 46	00 01	12 56	13 11
28-31	23 48	00 03	12 52	13 07
SEPTEMBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 50	00 05	12 48	13 03
5-8	23 52	00 07	12 43	12 58
9-12	23 54	00 09	12 38	12 53
13-16	23 55	00 10	12 34	12 49
17-20	23 57	00 12	12 29	12 44
21-24	00 00	00 15	12 24	12 39
25-28	00 01	00 16	12 20	12 35
29-30	00 03	00 18	12 15	12 30

OCTOBER	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-2	00 03	00 18	12 15	12 30
3-6	00 05	00 20	12 10	12 25
7-10	00 07	00 22	12 06	12 21
11-14	00 09	00 24	12 02	12 17
15-18	00 12	00 27	11 58	12 13
19-22	00 13	00 28	11 54	12 09
23-26	00 16	00 31	11 50	12 05
27-30	00 19	00 34	11 47	12 02
31	00 21	00 36	11 43	11 58
NOVEMBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1-3				
4-7	00 24	00 39	11 41	11 56
8-11	00 27	00 42	11 38	11 53
12-15	00 30	00 45	11 36	11 51
16-19	00 33	00 48	11 34	11 49
20-23	00 36	00 51	11 33	11 48
24-27	00 39	00 54	11 32	11 47
28-30	00 42	00 57	11 31	11 46
DECEMBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1	00 42	00 57	11 31	11 46
2-5	00 45	01 00	11 31	11 46
6-9	00 48	01 03	11 31	11 46
10-13	00 51	01 06	11 32	11 47
14-17	00 53	01 08	11 34	11 49
18-21	00 56	01 11	11 35	11 50
22-25	00 58	01 13	11 37	11 52
26-29	01 00	01 15	11 39	11 54
30	01 01	01 16	11 42	11 57
31	01 02	01 17	11 44	11 59

SUNRISE/SUNSET
Nepalgunj (VNNG)
280606N 0813959E

JANUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3	01 10	01 25	11 47	12 02
4-7	01 11	01 26	11 50	12 05
8-11	01 12	01 27	11 53	12 08
12-15	01 12	01 27	11 57	12 12
16-19	01 12	01 27	11 60	12 14
20-23	01 11	01 26	12 03	12 18
24-27	01 09	01 24	12 07	12 22
28-31	01 08	01 23	12 09	12 24

APRIL	TWIL FROM	SUNRISE	SUNSET	TWILTO
1	00 12	00 27	12 50	13 05
2-5	00 08	00 23	12 51	13 06
6-9	00 03	00 18	12 54	13 09
10-13	23 59	00 14	12 56	13 11
14-17	23 55	00 10	12 58	13 13
18-21	23 50	00 05	13 00	13 15
22-25	23 46	00 01	13 02	13 17
26-29	23 43	23 58	13 05	13 20
30	23 39	23 54	13 08	13 23

FEBRUARY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	01 06	01 21	12 13	12 28
5-8	01 04	01 19	12 16	12 31
9-12	01 01	01 16	12 20	12 35
13-16	00 58	01 13	12 22	12 37
17-20	00 54	01 09	12 25	12 40
21-24	00 52	01 07	12 28	12 43
25-28	00 48	01 03	12 31	12 46

MAY	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-3				
4-7	23 36	23 51	13 10	13 25
8-11	23 33	23 48	13 12	13 27
12-15	23 30	23 45	13 14	13 29
16-19	23 28	23 43	13 17	13 32
20-23	23 26	23 41	13 19	13 34
24	23 24	23 39	13 22	13 37
28-31	23 23	23 38	13 24	13 39

MARCH	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	00 43	00 58	12 33	12 48
5-8	00 39	00 54	12 36	12 51
9-12	00 35	00 50	12 38	12 53
13-16	00 31	00 46	12 41	12 56
17-20	00 26	00 41	12 43	12 58
21-24	00 22	00 37	12 45	13 00
25-28	00 17	00 32	12 47	13 02
29-31	00 12	00 27	12 50	13 05

JUNE	TWIL FROM	SUNRISE	SUNSET	TWILTO
1-4	23 22	23 37	13 26	13 41
5-8	23 21	23 36	13 27	13 42
9-12	23 21	23 36	13 29	13 44
13-16	23 21	23 36	13 31	13 46
17-20	23 22	23 37	13 32	13 47
21-24	23 22	23 37	13 33	13 48
25-28	23 23	23 38	13 34	13 49
29-30	23 25	23 40	13 34	13 49

JULY	TWIL FROM	SUNRISE	SUNSET	TWIL TO
1-2	23 25	23 40	13 34	13 49
3-6	23 26	23 41	13 34	13 49
7-10	23 27	23 42	13 34	13 49
11-14	23 29	23 44	13 33	13 48
15-18	23 31	23 46	13 33	13 48
19-22	23 33	23 48	13 31	13 46
23-26	23 36	23 51	13 29	13 44
27-30	23 38	23 53	13 27	13 42
31	23 40	23 55	13 24	13 39
AUGUST	TWILFROM	SUNRISE	SUNSET	TWILTO
1-3	23 40	23 55	13 24	13 39
4-7	23 42	23 57	13 21	13 36
8-11	23 44	23 59	13 18	13 33
12-15	23 46	00 01	13 15	13 30
16-19	23 49	00 04	13 11	13 26
20-23	23 50	00 05	13 07	13 22
24-27	23 52	00 07	13 03	13 18
28-31	23 55	00 10	12 60	13 14
SEPTEMBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1-4	23 57	00 12	12 55	13 10
5-8	23 58	00 13	12 50	13 05
9-12	00 00	00 15	12 45	13 00
13-16	00 02	00 17	12 41	12 56
17-20	00 04	00 19	12 36	12 51
21-24	00 07	00 22	12 31	12 46
25-28	00 08	00 23	12 27	12 42
29-30	00 10	00 25	12 22	12 37

OCTOBER	TWIL FROM	SUNRISE	SUNSET	TWIL TO
1-2	00 10	00 25	12 22	12 37
3-6	00 12	00 27	12 17	12 32
7-10	00 14	00 29	12 13	12 28
11-14	00 16	00 31	12 08	12 23
15-18	00 19	00 34	12 05	12 20
19-22	00 21	00 36	12 00	12 15
23-26	00 24	00 39	11 56	12 11
27-30	00 26	00 41	11 53	12 08
31	00 29	00 44	11 50	12 05
NOVEMBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1-3	00 29	00 44	11 50	12 05
4-7	00 32	00 47	11 47	12 02
8-11	00 35	00 50	11 44	11 59
12-15	00 37	00 52	11 42	11 57
16-19	00 41	00 56	11 40	11 55
20-23	00 44	00 59	11 39	11 54
24-27	00 47	01 02	11 38	11 53
28-30	00 50	01 05	11 37	11 52
DECEMBER	TWILFROM	SUNRISE	SUNSET	TWILTO
1	00 50	01 05	11 37	11 52
2-5	00 54	01 09	11 37	11 52
6-9	00 57	01 12	11 37	11 52
10-13	00 59	01 14	11 38	11 53
14-17	01 01	01 16	11 39	11 54
18-21	01 04	01 19	11 40	11 55
22-25	01 06	01 21	11 42	11 57
26-29	01 08	01 23	11 44	11 59
30	01 09	01 24	11 47	12 02
31	01 11	01 26	11 49	12 04