

ADELAIDE (CST)

HOURS of DARKNESS 2018

BRISBANE (EST)

	JANUARY		FEBRUARY		MARCH		APRIL	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		None		None		None	
2	None		None		None		None	
3	None				None			
4	21:18 (e)	21:27 (r)	20:55 (e)	21:57 (r)	20:16 (e)	20:26 (r)	19:30 (e)	20:44 (r)
5	21:18 (e)	22:11 (r)	20:54 (e)	22:31 (r)	20:15 (e)	21:00 (r)	19:29 (e)	21:24 (r)
6	21:18 (e)	22:50 (r)	20:53 (e)	23:05 (r)	20:13 (e)	21:35 (r)	19:28 (e)	22:08 (r)
7	21:18 (e)	23:26 (r)	20:52 (e)	23:39 (r)	20:12 (e)	22:12 (r)	19:26 (e)	22:54 (r)
8	21:17 (e)	23:59 (r)	20:50 (e)	00:15 (r)	20:10 (e)	22:50 (r)	19:25 (e)	23:44 (r)
9	21:17 (e)	00:32 (r)	20:49 (e)	00:54 (r)	20:08 (e)	23:31 (r)	19:24 (e)	00:36 (r)
10	21:17 (e)	01:05 (r)	20:48 (e)	01:36 (r)	20:07 (e)	00:15 (r)	19:23 (e)	01:30 (r)
11	21:16 (e)	01:39 (r)	20:46 (e)	02:21 (r)	20:05 (e)	01:02 (r)	19:21 (e)	02:26 (r)
12	21:16 (e)	02:16 (r)	20:45 (e)	03:09 (r)	20:04 (e)	01:53 (r)	19:20 (e)	03:24 (r)
13	21:15 (e)	02:55 (r)	20:44 (e)	04:01 (r)	20:02 (e)	02:46 (r)	19:19 (e)	04:23 (r)
14	21:15 (e)	03:35 (m)	20:42 (e)	04:18 (m)	20:01 (e)	03:42 (r)	19:18 (e)	05:15 (m)
15	21:14 (e)	03:36 (m)	20:41 (e)	04:19 (m)	19:59 (e)	04:39 (r)	19:16 (e)	05:15 (m)
16	21:13 (e)	03:38 (m)	20:40 (e)	04:20 (m)	19:58 (e)	04:51 (m)	19:15 (e)	05:16 (m)
17	21:13 (e)	03:39 (m)	20:38 (e)	04:21 (m)	19:56 (e)	04:52 (m)	19:14 (e)	05:17 (m)
18	21:12 (e)	03:40 (m)	20:37 (e)	04:23 (m)	19:55 (e)	04:53 (m)	19:36 (s)	05:17 (m)
19	21:11 (e)	03:42 (m)	21:09 (s)	04:24 (m)	19:53 (e)	04:54 (m)	20:23 (s)	05:18 (m)
20	21:27 (s)	03:43 (m)	21:42 (s)	04:25 (m)	20:19 (s)	04:55 (m)	21:15 (s)	05:19 (m)
21	22:00 (s)	03:44 (m)	22:18 (s)	04:26 (m)	20:57 (s)	04:56 (m)	22:13 (s)	05:20 (m)
22	22:33 (s)	03:46 (m)	22:57 (s)	04:28 (m)	21:40 (s)	04:56 (m)	23:15 (s)	05:20 (m)
23	23:06 (s)	03:47 (m)	23:41 (s)	04:29 (m)	22:27 (s)	04:57 (m)	00:20 (s)	05:21 (m)
24	23:41 (s)	03:49 (m)	00:31 (s)	04:30 (m)	23:20 (s)	04:58 (m)	01:25 (s)	05:22 (m)
25	00:18 (s)	03:50 (m)	01:27 (s)	04:31 (m)	00:19 (s)	04:59 (m)	02:30 (s)	05:22 (m)
26	00:59 (s)	03:51 (m)	02:29 (s)	04:32 (m)	01:22 (s)	05:00 (m)	03:33 (s)	05:23 (m)
27	01:47 (s)	03:53 (m)	03:35 (s)	04:33 (m)	02:28 (s)	05:01 (m)	04:36 (s)	05:24 (m)
28	02:41 (s)	03:54 (m)	None		03:34 (s)	05:01 (m)	None	
29	03:42 (s)	03:56 (m)			04:40 (s)	05:02 (m)	None	
30	None				None		None	
31	None				None		None	
MAY		JUNE		JULY		AUGUST		
1	None	18:42 (e)	19:28 (r)	18:45 (e)	19:58 (r)	19:01 (e)	21:35 (r)	
2	18:58 (e)	19:18 (r)	18:42 (e)	20:18 (r)	18:46 (e)	20:53 (r)	19:02 (e)	22:32 (r)
3	18:58 (e)	20:01 (r)	18:41 (e)	21:11 (r)	18:46 (e)	21:48 (r)	19:02 (e)	23:30 (r)
4	18:57 (e)	20:46 (r)	18:41 (e)	22:05 (r)	18:46 (e)	22:44 (r)	19:03 (e)	00:31 (r)
5	18:56 (e)	21:35 (r)	18:41 (e)	23:00 (r)	18:47 (e)	23:41 (r)	19:03 (e)	01:34 (r)
6	18:55 (e)	22:26 (r)	18:41 (e)	23:56 (r)	18:47 (e)	00:39 (r)	19:04 (e)	02:39 (r)
7	18:54 (e)	23:19 (r)	18:41 (e)	00:53 (r)	18:48 (e)	01:40 (r)	19:05 (e)	03:45 (r)
8	18:53 (e)	00:14 (r)	18:41 (e)	01:52 (r)	18:48 (e)	02:44 (r)	19:05 (e)	04:49 (r)
9	18:53 (e)	01:10 (r)	18:41 (e)	02:53 (r)	18:49 (e)	03:50 (r)	19:06 (e)	05:36 (m)
10	18:52 (e)	02:08 (r)	18:41 (e)	03:57 (r)	18:49 (e)	04:58 (r)	19:06 (e)	05:35 (m)
11	18:51 (e)	03:07 (r)	18:41 (e)	05:04 (r)	18:49 (e)	05:53 (m)	19:07 (e)	05:34 (m)
12	18:51 (e)	04:08 (r)	18:41 (e)	05:50 (m)	18:50 (e)	05:52 (m)	19:08 (e)	05:33 (m)
13	18:50 (e)	05:12 (r)	18:41 (e)	05:50 (m)	18:50 (e)	05:52 (m)	19:50 (s)	05:32 (m)
14	18:49 (e)	05:35 (m)	18:41 (e)	05:51 (m)	18:51 (e)	05:52 (m)	20:58 (s)	05:31 (m)
15	18:49 (e)	05:36 (m)	18:49 (s)	05:51 (m)	19:54 (s)	05:52 (m)	22:03 (s)	05:30 (m)
16	18:48 (e)	05:36 (m)	19:56 (s)	05:51 (m)	21:03 (s)	05:51 (m)	23:05 (s)	05:29 (m)
17	19:05 (s)	05:37 (m)	21:04 (s)	05:52 (m)	22:10 (s)	05:51 (m)	00:06 (s)	05:28 (m)
18	20:03 (s)	05:37 (m)	22:13 (s)	05:52 (m)	23:14 (s)	05:50 (m)	01:04 (s)	05:27 (m)
19	21:06 (s)	05:38 (m)	23:19 (s)	05:52 (m)	00:16 (s)	05:50 (m)	02:01 (s)	05:26 (m)
20	22:11 (s)	05:39 (m)	00:22 (s)	05:52 (m)	01:16 (s)	05:50 (m)	02:55 (s)	05:25 (m)
21	23:17 (s)	05:39 (m)	01:24 (s)	05:53 (m)	02:14 (s)	05:49 (m)	03:46 (s)	05:24 (m)
22	00:23 (s)	05:40 (m)	02:24 (s)	05:53 (m)	03:11 (s)	05:49 (m)	04:34 (s)	05:23 (m)
23	01:27 (s)	05:40 (m)	03:22 (s)	05:53 (m)	04:07 (s)	05:48 (m)	05:18 (s)	05:21 (m)
24	02:29 (s)	05:41 (m)	04:20 (s)	05:53 (m)	05:00 (s)	05:48 (m)	None	
25	03:29 (s)	05:41 (m)	05:17 (s)	05:53 (m)	None		None	
26	04:29 (s)	05:42 (m)	None		None		None	
27	05:28 (s)	05:43 (m)	None		None		None	
28	None		None		None		19:18 (e)	19:30 (r)
29	None		None		None		19:19 (e)	20:27 (r)
30	None		18:45 (e)	19:04 (r)	19:00 (e)	19:43 (r)	19:19 (e)	21:25 (r)
31	None				19:00 (e)	20:38 (r)	19:20 (e)	22:24 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	19:21 (e)	23:25 (r)	19:44 (e)	00:28 (r)	20:18 (e)	01:59 (r)	20:58 (e)	01:56 (r)
2	19:21 (e)	00:28 (r)	19:45 (e)	01:28 (r)	20:19 (e)	02:40 (r)	20:59 (e)	02:29 (r)
3	19:22 (e)	01:32 (r)	19:46 (e)	02:24 (r)	20:21 (e)	03:18 (r)	21:00 (e)	03:03 (r)
4	19:23 (e)	02:35 (r)	19:47 (e)	03:15 (r)	20:22 (e)	03:36 (m)	21:01 (e)	03:10 (m)
5	19:23 (e)	03:35 (r)	19:48 (e)	04:00 (r)	20:23 (e)	03:35 (m)	21:02 (e)	03:10 (m)
6	19:24 (e)	04:31 (r)	19:49 (e)	04:18 (m)	20:25 (e)	03:34 (m)	21:03 (e)	03:10 (m)
7	19:25 (e)	05:02 (m)	19:50 (e)	04:17 (m)	20:26 (e)	03:32 (m)	21:04 (e)	03:10 (m)
8	19:25 (e)	05:01 (m)	19:51 (e)	04:15 (m)	20:27 (e)	03:31 (m)	21:05 (e)	03:09 (m)
9	19:26 (e)	04:59 (m)	19:52 (e)	04:14 (m)	20:29 (e)	03:30 (m)	21:06 (e)	03:09 (m)
10	19:27 (e)	04:58 (m)	19:53 (e)	04:12 (m)	21:21 (s)	03:29 (m)	21:45 (s)	03:09 (m)
11	19:43 (s)	04:56 (m)	20:36 (s)	04:11 (m)	22:15 (s)	03:28 (m)	22:28 (s)	03:09 (m)
12	20:48 (s)	04:55 (m)	21:37 (s)	04:09 (m)	23:05 (s)	03:27 (m)	23:07 (s)	03:09 (m)
13	21:51 (s)	04:53 (m)	22:36 (s)	04:08 (m)	23:50 (s)	03:25 (m)	23:42 (s)	03:09 (m)
14	22:52 (s)	04:52 (m)	23:32 (s)	04:06 (m)	00:31 (s)	03:24 (m)	00:14 (s)	03:10 (m)
15	23:51 (s)	04:51 (m)	00:24 (s)	04:05 (m)	01:08 (s)	03:23 (m)	00:44 (s)	03:10 (m)
16	00:48 (s)	04:49 (m)	01:11 (s)	04:03 (m)	01:42 (s)	03:22 (m)	01:14 (s)	03:10 (m)
17	01:41 (s)	04:48 (m)	01:54 (s)	04:01 (m)	02:14 (s)	03:21 (m)	01:45 (s)	03:10 (m)
18	02:30 (s)	04:46 (m)	02:33 (s)	04:00 (m)	02:45 (s)	03:20 (m)	02:17 (s)	03:11 (m)
19	03:15 (s)	04:45 (m)	03:09 (s)	03:58 (m)	03:16 (s)	03:20 (m)	02:53 (s)	03:11 (m)
20	03:57 (s)	04:43 (m)	03:43 (s)	03:57 (m)	None		None	
21	04:35 (s)	04:42 (m)	None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		20:50 (e)	21:15 (r)	21:17 (e)	21:54 (r)
26	None		20:10 (e)	20:14 (r)	20:51 (e)	22:16 (r)	21:18 (e)	22:41 (r)
27	19:40 (e)	20:18 (r)	20:12 (e)	21:18 (r)	20:53 (e)	23:11 (r)	21:18 (e)	23:22 (r)
28	19:41 (e)	21:20 (r)	20:13 (e)	22:23 (r)	20:54 (e)	00:00 (r)	21:18 (e)	23:58 (r)
29	19:42 (e)	22:22 (r)	20:14 (e)	23:24 (r)	20:55 (e)	00:42 (r)	21:18 (e)	00:33 (r)
30	19:43 (e)	23:26 (r)	20:15 (e)	00:21 (r)	20:56 (e)	01:21 (r)	21:18 (e)	01:06 (r)
31			20:17 (e)	01:13 (r)			21:18 (e)	01:40 (r)

Note: For the Hours of Darkness tables, any time after midnight refers to the following morning. An entry of None means the Moon is up the entire time between evening and morning twilight. For the notes after each time: (e) dark starts at end of evening twilight, (s) dark starts at Moon set, (r) dark ends with Moon rise and (m) dark ends with morning twilight.

JANUARY		FEBRUARY		MARCH		APRIL		
	Begin	End	Begin	End	Begin	End	Begin	End
1		None		None		None		None
2		None		None		None	19:02 (e)	19:08 (r)
3		None	20:06 (e)	20:48 (r)		None	19:01 (e)	19:46 (r)
4	20:19 (e)	20:45 (r)	20:05 (e)	21:27 (r)	19:36 (e)	19:58 (r)	19:00 (e)	20:27 (r)
5	20:19 (e)	21:33 (r)	20:05 (e)	22:05 (r)	19:35 (e)	20:36 (r)	18:59 (e)	21:09 (r)
6	20:19 (e)	22:15 (r)	20:04 (e)	22:42 (r)	19:34 (e)	21:14 (r)	18:58 (e)	21:53 (r)
7	20:19 (e)	22:54 (r)	20:03 (e)	23:19 (r)	19:33 (e)	21:53 (r)	18:57 (e)	22:40 (r)
8	20:19 (e)	23:31 (r)	20:02 (e)	23:57 (r)	19:31 (e)	22:33 (r)	18:56 (e)	23:29 (r)
9	20:19 (e)	00:07 (r)	20:01 (e)	00:38 (r)	19:30 (e)	23:16 (r)	18:55 (e)	00:20 (r)
10	20:19 (e)	00:43 (r)	20:00 (e)	01:21 (r)	19:29 (e)	00:01 (r)	18:54 (e)	01:13 (r)
11	20:18 (e)	01:20 (r)	19:59 (e)	02:07 (r)	19:28 (e)	00:48 (r)	18:53 (e)	02:06 (r)
12	20:18 (e)	01:59 (r)	19:58 (e)	02:55 (r)	19:27 (e)	01:38 (r)	18:52 (e)	03:01 (r)
13	20:18 (e)	02:40 (r)	19:57 (e)	03:46 (r)	19:26 (e)	02:30 (r)	18:51 (e)	03:57 (r)
14	20:18 (e)	03:24 (r)	19:56 (e)	04:08 (m)	19:24 (e)	03:23 (r)	18:50 (e)	04:47 (m)
15	20:17 (e)	03:38 (m)	19:55 (e)	04:09 (m)	19:23 (e)	04:18 (r)	18:49 (e)	04:47 (m)
16	20:17 (e)	03:39 (m)	19:54 (e)	04:10 (m)	19:22 (e)	04:31 (m)	18:48 (e)	04:48 (m)
17	20:17 (e)	03:40 (m)	19:53 (e)	04:11 (m)	19:21 (e)	04:32 (m)	18:47 (e)	04:48 (m)
18	20:16 (e)	03:41 (m)	20:04 (s)	04:12 (m)	19:20 (e)	04:33 (m)	19:18 (s)	04:48 (m)
19	20:16 (e)	03:42 (m)	20:40 (s)	04:13 (m)	19:18 (e)	04:33 (m)	20:07 (s)	04:49 (m)
20	20:50 (s)	03:43 (m)	21:17 (s)	04:14 (m)	19:56 (s)	04:34 (m)	21:01 (s)	04:49 (m)
21	21:27 (s)	03:44 (m)	21:56 (s)	04:15 (m)	20:37 (s)	04:34 (m)	21:59 (s)	04:50 (m)
22	22:02 (s)	03:45 (m)	22:38 (s)	04:16 (m)	21:22 (s)	04:35 (m)	23:00 (s)	04:50 (m)
23	22:39 (s)	03:46 (m)	23:25 (s)	04:16 (m)	22:12 (s)	04:36 (m)	00:03 (s)	04:51 (m)
24	23:16 (s)	03:47 (m)	00:16 (s)	04:17 (m)	23:06 (s)	04:36 (m)	01:05 (s)	04:51 (m)
25	23:57 (s)	03:48 (m)	01:13 (s)	04:18 (m)	00:05 (s)	04:37 (m)	02:07 (s)	04:52 (m)
26	00:41 (s)	03:49 (m)	02:14 (s)	04:19 (m)	01:07 (s)	04:37 (m)	03:07 (s)	04:52 (m)
27	01:31 (s)	03:50 (m)	03:19 (s)	04:20 (m)	02:10 (s)	04:38 (m)	04:06 (s)	04:53 (m)
28	02:26 (s)	03:51 (m)	None		03:13 (s)	04:38 (m)	None	
29	03:28 (s)	03:52 (m)			04:16 (s)	04:39 (m)	None	
30	None				None	None	None	
31	None				None	None	None	
MAY		JUNE		JULY		AUGUST		
1		None	18:24 (e)	19:14 (r)	18:28 (e)	19:41 (r)	18:40 (e)	21:07 (r)
2	18:35 (e)	19:03 (r)	18:24 (e)	20:04 (r)	18:28 (e)	20:34 (r)	18:40 (e)	22:01 (r)
3	18:35 (e)	19:46 (r)	18:24 (e)	20:55 (r)	18:28 (e)	21:26 (r)	18:41 (e)	22:56 (r)
4	18:34 (e)	20:33 (r)	18:23 (e)	21:47 (r)	18:29 (e)	22:19 (r)	18:41 (e)	23:53 (r)
5	18:33 (e)	21:21 (r)	18:23 (e)	22:40 (r)	18:29 (e)	23:13 (r)	18:41 (e)	00:53 (r)
6	18:33 (e)	22:11 (r)	18:23 (e)	23:33 (r)	18:30 (e)	00:08 (r)	18:42 (e)	01:55 (r)
7	18:32 (e)	23:03 (r)	18:23 (e)	00:27 (r)	18:30 (e)	01:05 (r)	18:42 (e)	02:59 (r)
8	18:32 (e)	23:56 (r)	18:23 (e)	01:22 (r)	18:30 (e)	02:05 (r)	18:43 (e)	04:02 (r)
9	18:31 (e)	00:49 (r)	18:24 (e)	02:20 (r)	18:31 (e)	03:07 (r)	18:43 (e)	05:04 (m)
10	18:30 (e)	01:43 (r)	18:24 (e)	03:20 (r)	18:31 (e)	04:12 (r)	18:43 (e)	05:03 (m)
11	18:30 (e)	02:39 (r)	18:24 (e)	04:23 (r)	18:31 (e)	05:15 (m)	18:44 (e)	05:02 (m)
12	18:29 (e)	03:37 (r)	18:24 (e)	05:12 (m)	18:32 (e)	05:15 (m)	18:44 (e)	05:01 (m)
13	18:29 (e)	04:37 (r)	18:24 (e)	05:12 (m)	18:32 (e)	05:15 (m)	19:26 (s)	05:01 (m)
14	18:29 (e)	05:00 (m)	18:24 (e)	05:13 (m)	18:33 (e)	05:15 (m)	20:29 (s)	05:00 (m)
15	18:28 (e)	05:01 (m)	18:35 (s)	05:13 (m)	19:35 (s)	05:15 (m)	21:31 (s)	04:59 (m)
16	18:28 (e)	05:01 (m)	19:41 (s)	05:13 (m)	20:41 (s)	05:15 (m)	22:30 (s)	04:58 (m)
17	18:51 (s)	05:02 (m)	20:47 (s)	05:13 (m)	21:44 (s)	05:14 (m)	23:27 (s)	04:58 (m)
18	19:49 (s)	05:02 (m)	21:52 (s)	05:14 (m)	22:45 (s)	05:14 (m)	00:23 (s)	04:57 (m)
19	20:51 (s)	05:02 (m)	22:55 (s)	05:14 (m)	23:43 (s)	05:14 (m)	01:17 (s)	04:56 (m)
20	21:55 (s)	05:03 (m)	23:55 (s)	05:14 (m)	00:39 (s)	05:14 (m)	02:10 (s)	04:55 (m)
21	22:59 (s)	05:03 (m)	00:53 (s)	05:14 (m)	01:35 (s)	05:13 (m)	03:00 (s)	04:54 (m)
22	00:01 (s)	05:04 (m)	01:49 (s)	05:15 (m)	02:29 (s)	05:13 (m)	03:49 (s)	04:53 (m)
23	01:01 (s)	05:04 (m)	02:45 (s)	05:15 (m)	03:23 (s)	05:13 (m)	04:34 (s)	04:52 (m)
24	02:00 (s)	05:05 (m)	03:39 (s)	05:15 (m)	04:14 (s)	05:12 (m)	None	
25	02:57 (s)	05:05 (m)	04:34 (s)	05:15 (m)	05:04 (s)	05:12 (m)	None	
26	03:54 (s)	05:05 (m)	None		None		None	
27	04:49 (s)	05:06 (m)	None		None		None	
28	None		None		None		18:51 (e)	19:03 (r)
29	None		None		None		18:51 (e)	19:57 (r)
30	None		18:28 (e)	18:50 (r)	18:39 (e)	19:22 (r)	18:51 (e)	20:52 (r)
31	18:24 (e)	18:27 (r)			18:39 (e)	20:14 (r)	18:52 (e)	21:48 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	18:52 (e)	22:46 (r)	19:07 (e)	23:42 (r)	19:30 (e)	01:18 (r)	20:00 (e)	01:24 (r)
2	18:53 (e)	23:45 (r)	19:07 (e)	00:41 (r)	19:31 (e)	02:02 (r)	20:01 (e)	02:01 (r)
3	18:53 (e)	00:47 (r)	19:08 (e)	01:38 (r)	19:32 (e)	02:44 (r)	20:02 (e)	02:38 (r)
4	18:53 (e)	01:48 (r)	19:08 (e)	02:31 (r)	19:33 (e)	03:23 (r)	20:03 (e)	03:14 (m)
5	18:54 (e)	02:49 (r)	19:09 (e)	03:20 (r)	19:34 (e)	03:29 (m)	20:03 (e)	03:14 (m)
6	18:54 (e)	03:46 (r)	19:10 (e)	04:02 (m)	19:35 (e)	03:28 (m)	20:04 (e)	03:13 (m)
7	18:55 (e)	04:37 (m)	19:10 (e)	04:01 (m)	19:36 (e)	03:27 (m)	20:05 (e)	03:13 (m)
8	18:55 (e)	04:36 (m)	19:11 (e)	04:00 (m)	19:37 (e)	03:26 (m)	20:06 (e)	03:14 (m)
9	18:56 (e)	04:35 (m)	19:12 (e)	03:58 (m)	19:39 (s)	03:26 (m)	20:11 (s)	03:14 (m)
10	18:56 (e)	04:33 (m)	19:12 (e)	03:57 (m)	20:35 (s)	03:25 (m)	20:59 (s)	03:14 (m)
11	19:13 (s)	04:32 (m)	19:57 (s)	03:56 (m)	21:28 (s)	03:24 (m)	21:44 (s)	03:14 (m)
12	20:14 (s)	04:31 (m)	20:55 (s)	03:55 (m)	22:19 (s)	03:23 (m)	22:24 (s)	03:14 (m)
13	21:14 (s)	04:30 (m)	21:52 (s)	03:54 (m)	23:05 (s)	03:22 (m)	23:02 (s)	03:14 (m)
14	22:12 (s)	04:29 (m)	22:46 (s)	03:53 (m)	23:48 (s)	03:22 (m)	23:37 (s)	03:14 (m)
15	23:08 (s)	04:28 (m)	23:37 (s)	03:51 (m)	00:27 (s)	03:21 (m)	00:11 (s)	03:15 (m)
16	00:03 (s)	04:27 (m)	00:25 (s)	03:50 (m)	01:04 (s)	03:20 (m)	00:44 (s)	03:15 (m)
17	00:55 (s)	04:25 (m)	01:10 (s)	03:49 (m)	01:39 (s)	03:20 (m)	01:18 (s)	03:15 (m)
18	01:44 (s)	04:24 (m)	01:51 (s)	03:48 (m)	02:13 (s)	03:19 (m)	01:54 (s)	03:16 (m)
19	02:30 (s)	04:23 (m)	02:30 (s)	03:47 (m)	02:47 (s)	03:19 (m)	02:33 (s)	03:16 (m)
20	03:14 (s)	04:22 (m)	03:06 (s)	03:46 (m)	None		None	
21	03:54 (s)	04:21 (m)	03:41 (s)	03:44 (m)	None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		19:54 (e)	20:28 (r)	20:17 (e)	21:10 (r)
26	None		19:25 (e)	19:32 (r)	19:55 (e)	21:29 (r)	20:17 (e)	22:00 (r)
27	19:04 (e)	19:43 (r)	19:25 (e)	20:34 (r)	19:56 (e)	22:26 (r)	20:17 (e)	22:44 (r)
28	19:05 (e)	20:41 (r)	19:26 (e)	21:36 (r)	19:57 (e)	23:17 (r)	20:18 (e)	23:25 (r)
29	19:05 (e)	21:40 (r)	19:27 (e)	22:37 (r)	19:58 (e)	00:03 (r)	20:18 (e)	00:03 (r)
30	19:06 (e)	22:41 (r)	19:28 (e)	23:35 (r)	19:59 (e)	00:45 (r)	20:18 (e)	00:40 (r)
31			19:29 (e)	00:29 (r)			20:18 (e)	01:17 (r)

CANBERRA (EST)

HOURS of DARKNESS 2018

DARWIN (CST)

	JANUARY		FEBRUARY		MARCH		APRIL	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		None		None		None	
2	None		None		None		None	
3	None				None			
4	21:08 (e)	21:14 (r)	20:45 (e)	21:44 (r)	20:05 (e)	20:13 (r)	19:19 (e)	20:30 (r)
5	21:08 (e)	21:58 (r)	20:43 (e)	22:18 (r)	20:03 (e)	20:47 (r)	19:17 (e)	21:10 (r)
6	21:08 (e)	22:37 (r)	20:42 (e)	22:51 (r)	20:02 (e)	21:22 (r)	19:16 (e)	21:53 (r)
7	21:07 (e)	23:13 (r)	20:41 (e)	23:25 (r)	20:00 (e)	21:58 (r)	19:14 (e)	22:40 (r)
8	21:07 (e)	23:46 (r)	20:39 (e)	00:01 (r)	19:59 (e)	22:36 (r)	19:13 (e)	23:29 (r)
9	21:07 (e)	00:19 (r)	20:38 (e)	00:40 (r)	19:57 (e)	23:17 (r)	19:12 (e)	00:21 (r)
10	21:06 (e)	00:52 (r)	20:37 (e)	01:21 (r)	19:55 (e)	00:01 (r)	19:11 (e)	01:16 (r)
11	21:06 (e)	01:26 (r)	20:35 (e)	02:06 (r)	19:54 (e)	00:48 (r)	19:09 (e)	02:12 (r)
12	21:05 (e)	02:02 (r)	20:34 (e)	02:55 (r)	19:52 (e)	01:39 (r)	19:08 (e)	03:10 (r)
13	21:05 (e)	02:41 (r)	20:33 (e)	03:47 (r)	19:51 (e)	02:32 (r)	19:07 (e)	04:09 (r)
14	21:04 (e)	03:21 (m)	20:31 (e)	04:04 (m)	19:49 (e)	03:27 (r)	19:05 (e)	05:02 (m)
15	21:04 (e)	03:22 (m)	20:30 (e)	04:06 (m)	19:48 (e)	04:25 (r)	19:04 (e)	05:03 (m)
16	21:03 (e)	03:24 (m)	20:29 (e)	04:07 (m)	19:46 (e)	04:38 (m)	19:03 (e)	05:04 (m)
17	21:02 (e)	03:25 (m)	20:27 (e)	04:08 (m)	19:45 (e)	04:39 (m)	19:02 (e)	05:05 (m)
18	21:02 (e)	03:27 (m)	20:26 (e)	04:10 (m)	19:43 (e)	04:40 (m)	19:22 (s)	05:05 (m)
19	21:01 (e)	03:28 (m)	20:55 (s)	04:11 (m)	19:42 (e)	04:41 (m)	20:08 (s)	05:06 (m)
20	21:14 (s)	03:29 (m)	21:29 (s)	04:12 (m)	20:05 (s)	04:42 (m)	21:01 (s)	05:07 (m)
21	21:48 (s)	03:31 (m)	22:05 (s)	04:13 (m)	20:43 (s)	04:43 (m)	21:58 (s)	05:07 (m)
22	22:20 (s)	03:32 (m)	22:44 (s)	04:15 (m)	21:26 (s)	04:44 (m)	23:00 (s)	05:08 (m)
23	22:53 (s)	03:34 (m)	23:27 (s)	04:16 (m)	22:13 (s)	04:45 (m)	00:05 (s)	05:09 (m)
24	23:27 (s)	03:35 (m)	00:16 (s)	04:17 (m)	23:06 (s)	04:46 (m)	01:10 (s)	05:10 (m)
25	00:04 (s)	03:36 (m)	01:12 (s)	04:18 (m)	00:04 (s)	04:47 (m)	02:15 (s)	05:10 (m)
26	00:45 (s)	03:38 (m)	02:14 (s)	04:19 (m)	01:07 (s)	04:47 (m)	03:19 (s)	05:11 (m)
27	01:32 (s)	03:39 (m)	03:20 (s)	04:20 (m)	02:13 (s)	04:48 (m)	04:22 (s)	05:12 (m)
28	02:26 (s)	03:41 (m)	None		03:20 (s)	04:49 (m)	None	
29	03:27 (s)	03:42 (m)			04:26 (s)	04:50 (m)	None	
30	None				None		None	
31	None				None		None	
MAY		JUNE		JULY		AUGUST		
1	None	18:29 (e)	19:13 (r)	18:33 (e)	19:44 (r)	18:49 (e)	21:21 (r)	
2	18:46 (e)	19:04 (r)	18:29 (e)	20:04 (r)	18:33 (e)	20:38 (r)	18:49 (e)	22:18 (r)
3	18:45 (e)	19:46 (r)	18:29 (e)	20:56 (r)	18:33 (e)	21:34 (r)	18:50 (e)	23:17 (r)
4	18:44 (e)	20:32 (r)	18:29 (e)	21:50 (r)	18:34 (e)	22:30 (r)	18:50 (e)	00:17 (r)
5	18:43 (e)	21:20 (r)	18:29 (e)	22:46 (r)	18:34 (e)	23:27 (r)	18:51 (e)	01:20 (r)
6	18:43 (e)	22:11 (r)	18:29 (e)	23:42 (r)	18:35 (e)	00:26 (r)	18:52 (e)	02:25 (r)
7	18:42 (e)	23:05 (r)	18:28 (e)	00:39 (r)	18:35 (e)	01:26 (r)	18:52 (e)	03:31 (r)
8	18:41 (e)	00:00 (r)	18:28 (e)	01:38 (r)	18:35 (e)	02:30 (r)	18:53 (e)	04:36 (r)
9	18:40 (e)	00:56 (r)	18:28 (e)	02:39 (r)	18:36 (e)	03:36 (r)	18:54 (e)	05:24 (m)
10	18:40 (e)	01:54 (r)	18:28 (e)	03:43 (r)	18:36 (e)	04:44 (r)	18:54 (e)	05:23 (m)
11	18:39 (e)	02:53 (r)	18:28 (e)	04:50 (r)	18:37 (e)	05:41 (m)	18:55 (e)	05:22 (m)
12	18:38 (e)	03:55 (r)	18:28 (e)	05:38 (m)	18:37 (e)	05:41 (m)	18:55 (e)	05:21 (m)
13	18:37 (e)	04:58 (r)	18:28 (e)	05:39 (m)	18:38 (e)	05:40 (m)	19:36 (s)	05:20 (m)
14	18:37 (e)	05:23 (m)	18:29 (e)	05:39 (m)	18:38 (e)	05:40 (m)	20:44 (s)	05:19 (m)
15	18:36 (e)	05:24 (m)	18:34 (s)	05:39 (m)	19:39 (s)	05:40 (m)	21:49 (s)	05:18 (m)
16	18:36 (e)	05:24 (m)	19:41 (s)	05:40 (m)	20:49 (s)	05:39 (m)	22:52 (s)	05:17 (m)
17	18:51 (s)	05:25 (m)	20:50 (s)	05:40 (m)	21:56 (s)	05:39 (m)	23:52 (s)	05:16 (m)
18	19:48 (s)	05:26 (m)	21:58 (s)	05:40 (m)	23:00 (s)	05:39 (m)	00:51 (s)	05:15 (m)
19	20:51 (s)	05:26 (m)	23:04 (s)	05:41 (m)	00:02 (s)	05:38 (m)	01:48 (s)	05:14 (m)
20	21:56 (s)	05:27 (m)	00:08 (s)	05:41 (m)	01:02 (s)	05:38 (m)	02:42 (s)	05:13 (m)
21	23:03 (s)	05:27 (m)	01:10 (s)	05:41 (m)	02:01 (s)	05:37 (m)	03:34 (s)	05:12 (m)
22	00:08 (s)	05:28 (m)	02:10 (s)	05:41 (m)	02:58 (s)	05:37 (m)	04:22 (s)	05:10 (m)
23	01:12 (s)	05:29 (m)	03:09 (s)	05:41 (m)	03:54 (s)	05:36 (m)	05:06 (s)	05:09 (m)
24	02:15 (s)	05:29 (m)	04:07 (s)	05:42 (m)	04:47 (s)	05:36 (m)	None	
25	03:16 (s)	05:30 (m)	05:04 (s)	05:42 (m)	None		None	
26	04:16 (s)	05:30 (m)	None		None		None	
27	05:15 (s)	05:31 (m)	None		None		None	
28	None		None		None		19:06 (e)	19:16 (r)
29	None		None		None		19:06 (e)	20:13 (r)
30	None		18:32 (e)	18:50 (r)	18:47 (e)	19:28 (r)	19:07 (e)	21:11 (r)
31	None		18:48 (e)	20:24 (r)	19:08 (e)	22:21 (r)	19:08 (e)	22:11 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	19:09 (e)	23:12 (r)	19:32 (e)	00:15 (r)	20:07 (e)	01:46 (r)	20:47 (e)	01:43 (r)
2	19:09 (e)	00:15 (r)	19:33 (e)	01:15 (r)	20:08 (e)	02:28 (r)	20:48 (e)	02:16 (r)
3	19:10 (e)	01:19 (r)	19:34 (e)	02:11 (r)	20:10 (e)	03:05 (r)	20:50 (e)	02:50 (r)
4	19:11 (e)	02:22 (r)	19:35 (e)	03:02 (r)	20:11 (e)	03:23 (m)	20:51 (e)	02:56 (m)
5	19:11 (e)	03:22 (r)	19:36 (e)	03:47 (r)	20:12 (e)	03:21 (m)	20:52 (e)	02:56 (m)
6	19:12 (e)	04:18 (r)	19:37 (e)	04:06 (m)	20:14 (e)	03:20 (m)	20:53 (e)	02:56 (m)
7	19:13 (e)	04:50 (m)	19:38 (e)	04:04 (m)	20:15 (e)	03:19 (m)	20:54 (e)	02:56 (m)
8	19:13 (e)	04:48 (m)	19:39 (e)	04:03 (m)	20:16 (e)	03:18 (m)	20:55 (e)	02:56 (m)
9	19:14 (e)	04:47 (m)	19:40 (e)	04:01 (m)	20:18 (e)	03:17 (m)	20:56 (e)	02:55 (m)
10	19:15 (e)	04:45 (m)	19:41 (e)	03:59 (m)	21:08 (s)	03:15 (m)	21:33 (s)	02:55 (m)
11	19:29 (s)	04:44 (m)	20:23 (s)	03:58 (m)	22:02 (s)	03:14 (m)	22:16 (s)	02:55 (m)
12	20:34 (s)	04:43 (m)	21:24 (s)	03:56 (m)	22:52 (s)	03:13 (m)	22:54 (s)	02:55 (m)
13	21:38 (s)	04:41 (m)	22:23 (s)	03:55 (m)	23:38 (s)	03:12 (m)	23:29 (s)	02:55 (m)
14	22:39 (s)	04:40 (m)	23:19 (s)	03:53 (m)	00:18 (s)	03:11 (m)	00:01 (s)	02:56 (m)
15	23:38 (s)	04:38 (m)	00:11 (s)	03:52 (m)	00:55 (s)	03:10 (m)	00:32 (s)	02:56 (m)
16	00:35 (s)	04:37 (m)	00:59 (s)	03:50 (m)	01:29 (s)	03:09 (m)	01:01 (s)	02:56 (m)
17	01:28 (s)	04:35 (m)	01:42 (s)	03:49 (m)	02:01 (s)	03:08 (m)	01:32 (s)	02:56 (m)
18	02:17 (s)	04:34 (m)	02:21 (s)	03:47 (m)	02:32 (s)	03:07 (m)	02:04 (s)	02:57 (m)
19	03:03 (s)	04:32 (m)	02:57 (s)	03:46 (m)	03:03 (s)	03:06 (m)	02:40 (s)	02:57 (m)
20	03:44 (s)	04:31 (m)	03:30 (s)	03:44 (m)	None		None	
21	04:22 (s)	04:29 (m)	None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		20:40 (e)	21:02 (r)	21:07 (e)	21:41 (r)
26	None		19:59 (e)	20:00 (r)	20:41 (e)	22:03 (r)	21:07 (e)	22:28 (r)
27	19:29 (e)	20:05 (r)	20:01 (e)	21:05 (r)	20:42 (e)	22:58 (r)	21:08 (e)	23:09 (r)
28	19:30 (e)	21:06 (r)	20:02 (e)	22:09 (r)	20:43 (e)	23:47 (r)	21:08 (e)	23:46 (r)
29	19:30 (e)	22:09 (r)	20:03 (e)	23:11 (r)	20:45 (e)	00:30 (r)	21:08 (e)	00:20 (r)
30	19:31 (e)	23:12 (r)	20:04 (e)	00:09 (r)	20:46 (e)	01:08 (r)	21:08 (e)	00:53 (r)
31			20:06 (e)	01:00 (r)			21:08 (e)	01:26 (r)

Note: For the Hours of Darkness tables, any time after midnight refers to the following morning. An entry of None means the Moon is up the entire time between evening and morning twilight. For the notes after each time: (e) dark starts at end of evening twilight, (s) dark starts at Moon set, (r) dark ends with Moon rise and (m) dark ends with morning twilight.

	JANUARY		FEBRUARY		MARCH		APRIL	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		None		None		None	
2	None		20:34 (e)	20:55 (r)	None	None	20:00 (e)	20:20 (r)
3	None		20:34 (e)	21:43 (r)	None	None	19:59 (e)	21:04 (r)
4	20:35 (e)	21:27 (r)	20:34 (e)	22:28 (r)	20:19 (e)	21:02 (r)	19:59 (e)	21:49 (r)
5	20:35 (e)	22:19 (r)	20:33 (e)	23:11 (r)	20:18 (e)	21:45 (r)	19:58 (e)	22:35 (r)
6	20:36 (e)	23:07 (r)	20:33 (e)	23:53 (r)	20:18 (e)	22:29 (r)	19:58 (e)	23:21 (r)
7	20:36 (e)	23:52 (r)	20:32 (e)	00:36 (r)	20:17 (e)	23:12 (r)	19:57 (e)	00:09 (r)
8	20:36 (e)	00:35 (r)	20:32 (e)	01:19 (r)	20:16 (e)	23:57 (r)	19:57 (e)	00:58 (r)
9	20:36 (e)	01:16 (r)	20:32 (e)	02:03 (r)	20:16 (e)	00:42 (r)	19:56 (e)	01:47 (r)
10	20:36 (e)	01:57 (r)	20:31 (e)	02:48 (r)	20:15 (e)	01:29 (r)	19:55 (e)	02:36 (r)
11	20:36 (e)	02:39 (r)	20:31 (e)	03:35 (r)	20:14 (e)	02:17 (r)	19:55 (e)	03:25 (r)
12	20:37 (e)	03:21 (r)	20:30 (e)	04:23 (r)	20:14 (e)	03:06 (r)	19:54 (e)	04:15 (r)
13	20:37 (e)	04:06 (r)	20:30 (e)	05:12 (r)	20:13 (e)	03:55 (r)	19:54 (e)	05:05 (r)
14	20:37 (e)	04:52 (r)	20:29 (e)	05:33 (m)	20:12 (e)	04:45 (r)	19:53 (e)	05:41 (m)
15	20:37 (e)	05:16 (m)	20:29 (e)	05:34 (m)	20:12 (e)	05:34 (r)	19:53 (e)	05:41 (m)
16	20:37 (e)	05:17 (m)	20:28 (e)	05:34 (m)	20:11 (e)	05:40 (m)	19:52 (e)	05:41 (m)
17	20:37 (e)	05:18 (m)	20:28 (e)	05:34 (m)	20:10 (e)	05:41 (m)	19:52 (e)	05:41 (m)
18	20:37 (e)	05:18 (m)	21:01 (s)	05:35 (m)	20:10 (e)	05:41 (m)	20:40 (s)	05:41 (m)
19	20:56 (s)	05:19 (m)	21:43 (s)	05:35 (m)	20:24 (s)	05:41 (m)	21:33 (s)	05:41 (m)
20	21:38 (s)	05:20 (m)	22:26 (s)	05:35 (m)	21:08 (s)	05:41 (m)	22:30 (s)	05:41 (m)
21	22:20 (s)	05:20 (m)	23:10 (s)	05:36 (m)	21:56 (s)	05:41 (m)	23:29 (s)	05:41 (m)
22	23:01 (s)	05:21 (m)	23:58 (s)	05:36 (m)	22:46 (s)	05:41 (m)	00:29 (s)	05:42 (m)
23	23:43 (s)	05:22 (m)	00:49 (s)	05:36 (m)	23:39 (s)	05:41 (m)	01:28 (s)	05:42 (m)
24	00:27 (s)	05:22 (m)	01:44 (s)	05:37 (m)	00:35 (s)	05:41 (m)	02:26 (s)	05:42 (m)
25	01:13 (s)	05:23 (m)	02:42 (s)	05:37 (m)	01:34 (s)	05:41 (m)	03:22 (s)	05:42 (m)
26	02:02 (s)	05:23 (m)	03:43 (s)	05:37 (m)	02:34 (s)	05:41 (m)	04:16 (s)	05:42 (m)
27	02:56 (s)	05:24 (m)	04:45 (s)	05:38 (m)	03:34 (s)	05:41 (m)	05:09 (s)	05:42 (m)
28	03:55 (s)	05:25 (m)	None		04:32 (s)	05:41 (m)	None	
29	04:57 (s)	05:25 (m)			05:29 (s)	05:41 (m)	None	
30	None				None	None	None	
31	None				None	None	None	
	MAY		JUNE		JULY		AUGUST	
1	None		19:43 (e)	20:44 (r)	19:49 (e)	21:06 (r)	19:54 (e)	22:14 (r)
2	19:46 (e)	20:27 (r)	19:43 (e)	21:33 (r)	19:49 (e)	21:54 (r)	19:54 (e)	23:03 (r)
3	19:46 (e)	21:14 (r)	19:44 (e)	22:22 (r)	19:49 (e)	22:42 (r)	19:54 (e)	23:52 (r)
4	19:46 (e)	22:01 (r)	19:44 (e)	23:10 (r)	19:50 (e)	23:30 (r)	19:54 (e)	00:43 (r)
5	19:45 (e)	22:50 (r)	19:44 (e)	23:58 (r)	19:50 (e)	00:18 (r)	19:54 (e)	01:38 (r)
6	19:45 (e)	23:39 (r)	19:44 (e)	00:47 (r)	19:50 (e)	01:07 (r)	19:54 (e)	02:35 (r)
7	19:45 (e)	00:28 (r)	19:44 (e)	01:35 (r)	19:50 (e)	01:58 (r)	19:54 (e)	03:35 (r)
8	19:45 (e)	01:17 (r)	19:44 (e)	02:25 (r)	19:50 (e)	02:52 (r)	19:54 (e)	04:38 (r)
9	19:44 (e)	02:06 (r)	19:44 (e)	03:17 (r)	19:51 (e)	03:50 (r)	19:54 (e)	05:40 (r)
10	19:44 (e)	02:55 (r)	19:45 (e)	04:11 (r)	19:51 (e)	04:51 (r)	19:54 (e)	05:50 (m)
11	19:44 (e)	03:45 (r)	19:45 (e)	05:08 (r)	19:51 (e)	05:54 (m)	19:55 (e)	05:50 (m)
12	19:44 (e)	04:37 (r)	19:45 (e)	05:49 (m)	19:51 (e)	05:54 (m)	19:55 (e)	05:50 (m)
13	19:44 (e)	05:30 (r)	19:45 (e)	05:49 (m)	19:51 (e)	05:54 (m)	20:39 (s)	05:49 (m)
14	19:44 (e)	05:43 (m)	19:45 (e)	05:50 (m)	19:54 (s)	05:54 (m)	21:36 (s)	05:49 (m)
15	19:44 (e)	05:43 (m)	20:06 (s)	05:50 (m)	20:57 (s)	05:54 (m)	22:30 (s)	05:48 (m)
16	19:43 (e)	05:44 (m)	21:09 (s)	05:50 (m)	21:57 (s)	05:54 (m)	23:23 (s)	05:48 (m)
17	20:19 (s)	05:44 (m)	22:12 (s)	05:50 (m)	22:54 (s)	05:54 (m)	00:15 (s)	05:48 (m)
18	21:20 (s)	05:44 (m)	23:11 (s)	05:50 (m)	23:48 (s)	05:54 (m)	01:06 (s)	05:47 (m)
19	22:21 (s)	05:44 (m)	00:08 (s)	05:51 (m)	00:40 (s)	05:54 (m)	01:56 (s)	05:47 (m)
20	23:22 (s)	05:44 (m)	01:02 (s)	05:51 (m)	01:30 (s)	05:54 (m)	02:46 (s)	05:46 (m)
21	00:21 (s)	05:44 (m)	01:53 (s)	05:51 (m)	02:21 (s)	05:54 (m)	03:35 (s)	05:46 (m)
22	01:18 (s)	05:45 (m)	02:44 (s)	05:51 (m)	03:11 (s)	05:54 (m)	04:24 (s)	05:45 (m)
23	02:12 (s)	05:45 (m)	03:34 (s)	05:52 (m)	04:01 (s)	05:54 (m)	05:10 (s)	05:45 (m)
24	03:05 (s)	05:45 (m)	04:24 (s)	05:52 (m)	04:50 (s)	05:54 (m)	None	
25	03:56 (s)	05:45 (m)	05:14 (s)	05:52 (m)	05:39 (s)	05:54 (m)	None	
26	04:46 (s)	05:45 (m)	None		None		None	
27	05:37 (s)	05:45 (m)	None		None		None	
28	None		None		None		19:54 (e)	20:12 (r)
29	None		None		None		19:54 (e)	21:00 (r)
30	None		19:49 (e)	20:17 (r)	19:54 (e)	20:39 (r)	19:54 (e)	21:49 (r)
31	19:43 (e)	19:55 (r)			19:54 (e)	21:27 (r)	19:54 (e)	22:39 (r)
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	19:54 (e)	23:32 (r)	19:54 (e)	00:17 (r)	20:01 (e)	01:59 (r)	20:18 (e)	02:21 (r)
2	19:54 (e)	00:27 (r)	19:54 (e)	01:16 (r)	20:01 (e)	02:49 (r)	20:18 (e)	03:04 (r)
3	19:54 (e)	01:24 (r)	19:54 (e)	02:14 (r)	20:02 (e)	03:36 (r)	20:19 (e)	03:47 (r)
4	19:54 (e)	02:24 (r)	19:54 (e)	03:10 (r)	20:02 (e)	04:22 (r)	20:19 (e)	04:31 (r)
5	19:54 (e)	03:24 (r)	19:54 (e)	04:03 (r)	20:03 (e)	04:59 (m)	20:20 (e)	04:55 (m)
6	19:54 (e)	04:23 (r)	19:54 (e)	04:54 (r)	20:03 (e)	04:58 (m)	20:21 (e)	04:55 (m)
7	19:54 (e)	05:20 (r)	19:54 (e)	05:15 (m)	20:04 (e)	04:58 (m)	20:21 (e)	04:56 (m)
8	19:54 (e)	05:36 (m)	19:54 (e)	05:15 (m)	20:04 (e)	04:57 (m)	20:22 (e)	04:56 (m)
9	19:54 (e)	05:35 (m)	19:55 (e)	05:14 (m)	20:18 (s)	04:57 (m)	20:45 (s)	04:56 (m)
10	19:54 (e)	05:34 (m)	19:55 (e)	05:13 (m)	21:11 (s)	04:57 (m)	21:34 (s)	04:56 (m)
11	20:15 (s)	05:34 (m)	20:44 (s)	05:13 (m)	22:03 (s)	04:56 (m)	22:20 (s)	04:57 (m)
12	21:10 (s)	05:33 (m)	21:37 (s)	05:12 (m)	22:53 (s)	04:56 (m)	23:04 (s)	04:57 (m)
13	22:04 (s)	05:32 (m)	22:30 (s)	05:11 (m)	23:40 (s)	04:56 (m)	23:46 (s)	04:57 (m)
14	22:57 (s)	05:32 (m)	23:21 (s)	05:11 (m)	00:25 (s)	04:56 (m)	00:26 (s)	04:58 (m)
15	23:49 (s)	05:31 (m)	00:12 (s)	05:10 (m)	01:08 (s)	04:55 (m)	01:05 (s)	04:58 (m)
16	00:40 (s)	05:30 (m)	01:00 (s)	05:09 (m)	01:50 (s)	04:55 (m)	01:44 (s)	04:59 (m)
17	01:30 (s)	05:30 (m)	01:46 (s)	05:09 (m)	02:30 (s)	04:55 (m)	02:24 (s)	04:59 (m)
18	02:19 (s)	05:29 (m)	02:31 (s)	05:08 (m)	03:10 (s)	04:55 (m)	03:06 (s)	04:59 (m)
19	03:06 (s)	05:28 (m)	03:13 (s)	05:07 (m)	03:50 (s)	04:55 (m)	03:51 (s)	05:00 (m)
20	03:52 (s)	05:27 (m)	03:54 (s)	05:07 (m)	04:32 (s)	04:55 (m)	04:40 (s)	05:00 (m)
21	04:35 (s)	05:27 (m)	04:35 (s)	05:06 (m)	None		None	
22	05:17 (s)	05:26 (m)	None		None		None	
23	None		None		None		None	
24	None		None		None		20:31 (e)	20:49 (r)
25	None		None		20:14 (e)	21:03 (r)	20:31 (e)	21:48 (r)
26	None		19:59 (e)	20:16 (r)	20:14 (e)	22:03 (r)	20:32 (e)	22:43 (r)
27	19:53 (e)	20:36 (r)	19:59 (e)	21:14 (r)	20:15 (e)	23:02 (r)	20:32 (e)	23:33 (r)
28	19:53 (e)	21:28 (r)	19:59 (e)	22:12 (r)	20:16 (e)	23:57 (r)	20:33 (e)	00:20 (r)
29	19:54 (e)	22:23 (r)	20:00 (e)	23:12 (r)	20:16 (e)	00:48 (r)	20:33 (e)	01:04 (r)
30	19:54 (e)	23:19 (r)	20:00 (e)	00:10 (r)	20:17 (e)	01:35 (r)	20:33 (e)	01:47 (r)
31			20:00 (e)	01:06 (r)			20:34 (e)	02:30 (r)

HOBART (EST)

HOURS of DARKNESS 2018

MELBOURNE (EST)

JANUARY		FEBRUARY		MARCH		APRIL		
	Begin	End	Begin	End	Begin	End	Begin	End
1		None		None		None		None
2		None		None		None		None
3		None		None		None	19:33 (e)	19:49 (r)
4		None	21:25 (e)	21:52 (r)		None	19:31 (e)	20:23 (r)
5	22:06 (e)	22:17 (r)	21:23 (e)	22:22 (r)	20:28 (e)	20:49 (r)	19:30 (e)	21:00 (r)
6	22:05 (e)	22:52 (r)	21:21 (e)	22:52 (r)	20:26 (e)	21:20 (r)	19:28 (e)	21:42 (r)
7	22:04 (e)	23:24 (r)	21:19 (e)	23:22 (r)	20:24 (e)	21:53 (r)	19:26 (e)	22:27 (r)
8	22:03 (e)	23:53 (r)	21:17 (e)	23:55 (r)	20:22 (e)	22:28 (r)	19:24 (e)	23:17 (r)
9	22:03 (e)	00:21 (r)	21:16 (e)	00:31 (r)	20:20 (e)	23:06 (r)	19:23 (e)	00:11 (r)
10	22:02 (e)	00:51 (r)	21:14 (e)	01:10 (r)	20:18 (e)	23:49 (r)	19:21 (e)	01:08 (r)
11	22:01 (e)	01:21 (r)	21:12 (e)	01:55 (r)	20:16 (e)	00:36 (r)	19:20 (e)	02:07 (r)
12	22:00 (e)	01:55 (r)	21:10 (e)	02:44 (r)	20:14 (e)	01:28 (r)	19:18 (e)	03:09 (r)
13	21:59 (e)	02:32 (r)	21:08 (e)	03:37 (r)	20:12 (e)	02:23 (r)	19:16 (e)	04:12 (r)
14	21:57 (e)	02:43 (m)	21:06 (e)	03:45 (m)	20:10 (e)	03:21 (r)	19:15 (e)	05:09 (m)
15	21:56 (e)	02:45 (m)	21:04 (e)	03:47 (m)	20:08 (e)	04:22 (r)	19:13 (e)	05:10 (m)
16	21:55 (e)	02:47 (m)	21:02 (e)	03:49 (m)	20:06 (e)	04:34 (m)	19:12 (e)	05:11 (m)
17	21:54 (e)	02:49 (m)	21:00 (e)	03:51 (m)	20:04 (e)	04:35 (m)	19:10 (e)	05:12 (m)
18	21:52 (e)	02:51 (m)	20:58 (e)	03:53 (m)	20:03 (e)	04:36 (m)	19:15 (s)	05:13 (m)
19	21:51 (e)	02:53 (m)	21:03 (s)	03:54 (m)	20:01 (e)	04:38 (m)	19:59 (s)	05:14 (m)
20	21:50 (e)	02:55 (m)	21:32 (s)	03:56 (m)	20:05 (s)	04:39 (m)	20:49 (s)	05:15 (m)
21	22:01 (s)	02:57 (m)	22:04 (s)	03:58 (m)	20:39 (s)	04:40 (m)	21:46 (s)	05:16 (m)
22	22:30 (s)	02:59 (m)	22:39 (s)	04:00 (m)	21:18 (s)	04:42 (m)	22:49 (s)	05:17 (m)
23	22:59 (s)	03:01 (m)	23:19 (s)	04:01 (m)	22:02 (s)	04:43 (m)	23:56 (s)	05:18 (m)
24	23:29 (s)	03:03 (m)	00:05 (s)	04:03 (m)	22:54 (s)	04:44 (m)	01:05 (s)	05:19 (m)
25	00:02 (s)	03:05 (m)	01:00 (s)	04:05 (m)	23:52 (s)	04:46 (m)	02:14 (s)	05:20 (m)
26	00:39 (s)	03:07 (m)	02:02 (s)	04:06 (m)	00:57 (s)	04:47 (m)	03:23 (s)	05:21 (m)
27	01:23 (s)	03:09 (m)	03:11 (s)	04:08 (m)	02:05 (s)	04:48 (m)	04:30 (s)	05:22 (m)
28	02:15 (s)	03:11 (m)	None		03:16 (s)	04:49 (m)	None	
29	None				04:27 (s)	04:50 (m)	None	
30	None				None		None	
31	None				None		None	
MAY		JUNE		JULY		AUGUST		
1		None	18:27 (e)	19:01 (r)	18:29 (e)	19:35 (r)	18:50 (e)	21:25 (r)
2	18:50 (e)	18:56 (r)	18:27 (e)	19:52 (r)	18:30 (e)	20:33 (r)	18:51 (e)	22:27 (r)
3	18:49 (e)	19:35 (r)	18:26 (e)	20:46 (r)	18:30 (e)	21:32 (r)	18:52 (e)	23:30 (r)
4	18:48 (e)	20:19 (r)	18:26 (e)	21:43 (r)	18:31 (e)	22:32 (r)	18:53 (e)	00:35 (r)
5	18:47 (e)	21:08 (r)	18:26 (e)	22:41 (r)	18:31 (e)	23:33 (r)	18:54 (e)	01:42 (r)
6	18:46 (e)	22:00 (r)	18:26 (e)	23:41 (r)	18:32 (e)	00:36 (r)	18:54 (e)	02:51 (r)
7	18:44 (e)	22:56 (r)	18:26 (e)	00:43 (r)	18:32 (e)	01:41 (r)	18:55 (e)	03:59 (r)
8	18:43 (e)	23:54 (r)	18:25 (e)	01:46 (r)	18:33 (e)	02:49 (r)	18:56 (e)	05:05 (r)
9	18:42 (e)	00:54 (r)	18:25 (e)	02:52 (r)	18:33 (e)	03:59 (r)	18:57 (e)	05:36 (m)
10	18:41 (e)	01:55 (r)	18:25 (e)	04:00 (r)	18:34 (e)	05:11 (r)	18:58 (e)	05:35 (m)
11	18:40 (e)	02:59 (r)	18:25 (e)	05:11 (r)	18:35 (e)	05:58 (m)	18:59 (e)	05:33 (m)
12	18:40 (e)	04:05 (r)	18:25 (e)	05:57 (m)	18:35 (e)	05:58 (m)	19:00 (e)	05:32 (m)
13	18:39 (e)	05:13 (r)	18:25 (e)	05:57 (m)	18:36 (e)	05:58 (m)	19:36 (s)	05:31 (m)
14	18:38 (e)	05:38 (m)	18:25 (e)	05:58 (m)	18:37 (e)	05:57 (m)	20:49 (s)	05:30 (m)
15	18:37 (e)	05:38 (m)	18:25 (e)	05:58 (m)	19:33 (s)	05:57 (m)	21:59 (s)	05:28 (m)
16	18:36 (e)	05:39 (m)	19:29 (s)	05:58 (m)	20:47 (s)	05:56 (m)	23:06 (s)	05:27 (m)
17	18:39 (s)	05:40 (m)	20:41 (s)	05:59 (m)	21:59 (s)	05:56 (m)	00:11 (s)	05:26 (m)
18	19:35 (s)	05:41 (m)	21:54 (s)	05:59 (m)	23:08 (s)	05:55 (m)	01:14 (s)	05:24 (m)
19	20:38 (s)	05:42 (m)	23:04 (s)	05:59 (m)	00:14 (s)	05:55 (m)	02:13 (s)	05:23 (m)
20	21:46 (s)	05:43 (m)	00:13 (s)	06:00 (m)	01:19 (s)	05:54 (m)	03:10 (s)	05:21 (m)
21	22:56 (s)	05:43 (m)	01:19 (s)	06:00 (m)	02:21 (s)	05:53 (m)	04:02 (s)	05:20 (m)
22	00:06 (s)	05:44 (m)	02:23 (s)	06:00 (m)	03:22 (s)	05:53 (m)	04:50 (s)	05:18 (m)
23	01:14 (s)	05:45 (m)	03:26 (s)	06:00 (m)	04:20 (s)	05:52 (m)	None	
24	02:21 (s)	05:46 (m)	04:28 (s)	06:00 (m)	05:15 (s)	05:51 (m)	None	
25	03:26 (s)	05:46 (m)	05:28 (s)	06:00 (m)	None		None	
26	04:31 (s)	05:47 (m)	None		None		None	
27	05:34 (s)	05:48 (m)	None		None		None	
28	None		None		None		19:15 (e)	19:19 (r)
29	None		None		None		19:16 (e)	20:20 (r)
30	None		18:29 (e)	18:39 (r)	18:49 (e)	19:25 (r)	19:17 (e)	21:23 (r)
31	None				18:49 (e)	20:25 (r)	19:18 (e)	22:27 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	19:19 (e)	23:32 (r)	19:54 (e)	00:44 (r)	20:44 (e)	02:10 (r)	21:42 (e)	01:54 (r)
2	19:20 (e)	00:39 (r)	19:55 (e)	01:44 (r)	20:46 (e)	02:47 (r)	21:44 (e)	02:17 (m)
3	19:21 (e)	01:46 (r)	19:57 (e)	02:39 (r)	20:48 (e)	03:01 (m)	21:46 (e)	02:16 (m)
4	19:22 (e)	02:51 (r)	19:58 (e)	03:27 (r)	20:50 (e)	02:59 (m)	21:47 (e)	02:15 (m)
5	19:23 (e)	03:51 (r)	20:00 (e)	03:59 (m)	20:52 (e)	02:57 (m)	21:49 (e)	02:14 (m)
6	19:24 (e)	04:45 (r)	20:01 (e)	03:57 (m)	20:54 (e)	02:55 (m)	21:51 (e)	02:14 (m)
7	19:25 (e)	04:52 (m)	20:02 (e)	03:55 (m)	20:56 (e)	02:53 (m)	21:52 (e)	02:13 (m)
8	19:26 (e)	04:51 (m)	20:04 (e)	03:53 (m)	20:58 (e)	02:52 (m)	21:54 (e)	02:12 (m)
9	19:27 (e)	04:49 (m)	20:05 (e)	03:51 (m)	21:00 (e)	02:50 (m)	21:55 (e)	02:12 (m)
10	19:29 (e)	04:47 (m)	20:07 (e)	03:49 (m)	21:35 (s)	02:48 (m)	22:02 (s)	02:11 (m)
11	19:37 (s)	04:45 (m)	20:42 (s)	03:47 (m)	22:31 (s)	02:46 (m)	22:43 (s)	02:11 (m)
12	20:47 (s)	04:44 (m)	21:48 (s)	03:45 (m)	23:21 (s)	02:45 (m)	23:18 (s)	02:11 (m)
13	21:55 (s)	04:42 (m)	22:50 (s)	03:43 (m)	00:06 (s)	02:43 (m)	23:50 (s)	02:11 (m)
14	23:00 (s)	04:40 (m)	23:47 (s)	03:41 (m)	00:44 (s)	02:41 (m)	00:18 (s)	02:10 (m)
15	00:03 (s)	04:38 (m)	00:40 (s)	03:39 (m)	01:18 (s)	02:39 (m)	00:45 (s)	02:10 (m)
16	01:02 (s)	04:36 (m)	01:27 (s)	03:37 (m)	01:48 (s)	02:38 (m)	01:11 (s)	02:10 (m)
17	01:56 (s)	04:34 (m)	02:08 (s)	03:35 (m)	02:16 (s)	02:36 (m)	01:37 (s)	02:11 (m)
18	02:46 (s)	04:32 (m)	02:45 (s)	03:33 (m)	None		02:05 (s)	02:11 (m)
19	03:31 (s)	04:30 (m)	03:18 (s)	03:30 (m)	None		None	
20	04:10 (s)	04:28 (m)	None		None		None	
21	None		None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		21:31 (e)	21:32 (r)	None	
26	None		None		21:33 (e)	22:33 (r)	22:08 (e)	22:50 (r)
27	19:49 (e)	20:19 (r)	20:35 (e)	21:31 (r)	21:35 (e)	23:26 (r)	22:08 (e)	23:27 (r)
28	19:50 (e)	21:25 (r)	20:37 (e)	22:38 (r)	21:37 (e)	00:11 (r)	22:08 (e)	23:59 (r)
29	19:51 (e)	22:32 (r)	20:39 (e)	23:41 (r)	21:39 (e)	00:50 (r)	22:08 (e)	00:28 (r)
30	19:53 (e)	23:39 (r)	20:41 (e)	00:38 (r)	21:41 (e)	01:24 (r)	22:08 (e)	00:57 (r)
31			20:42 (e)	01:27 (r)			22:08 (e)	01:26 (r)

Note: For the Hours of Darkness tables, any time after midnight refers to the following morning. An entry of None means the Moon is up the entire time between evening and morning twilight. For the notes after each time: (e) dark starts at end of evening twilight, (s) dark starts at Moon set, (r) dark ends with Moon rise and (m) dark ends with morning twilight.

JANUARY		FEBRUARY		MARCH		APRIL		
	Begin	End	Begin	End	Begin	End	Begin	End
1		None		None		None		None
2		None		None		None		None
3		None	21:12 (e)	21:27 (r)		None	19:38 (e)	20:06 (r)
4		None	21:11 (e)	22:01 (r)	20:27 (e)	20:29 (r)	19:36 (e)	20:42 (r)
5	21:39 (e)	22:19 (r)	21:09 (e)	22:33 (r)	20:25 (e)	21:02 (r)	19:35 (e)	21:22 (r)
6	21:38 (e)	22:57 (r)	21:08 (e)	23:06 (r)	20:23 (e)	21:36 (r)	19:34 (e)	22:04 (r)
7	21:38 (e)	23:31 (r)	21:07 (e)	23:39 (r)	20:22 (e)	22:11 (r)	19:32 (e)	22:50 (r)
8	21:38 (e)	00:03 (r)	21:05 (e)	00:14 (r)	20:20 (e)	22:48 (r)	19:31 (e)	23:40 (r)
9	21:37 (e)	00:34 (r)	21:04 (e)	00:51 (r)	20:18 (e)	23:28 (r)	19:29 (e)	00:33 (r)
10	21:36 (e)	01:06 (r)	21:02 (e)	01:32 (r)	20:16 (e)	00:11 (r)	19:28 (e)	01:28 (r)
11	21:36 (e)	01:39 (r)	21:01 (e)	02:17 (r)	20:15 (e)	00:59 (r)	19:26 (e)	02:25 (r)
12	21:35 (e)	02:14 (r)	20:59 (e)	03:06 (r)	20:13 (e)	01:50 (r)	19:25 (e)	03:24 (r)
13	21:35 (e)	02:53 (r)	20:58 (e)	03:58 (r)	20:11 (e)	02:44 (r)	19:24 (e)	04:25 (r)
14	21:34 (e)	03:25 (m)	20:56 (e)	04:13 (m)	20:10 (e)	03:40 (r)	19:22 (e)	05:19 (m)
15	21:33 (e)	03:26 (m)	20:54 (e)	04:14 (m)	20:08 (e)	04:38 (r)	19:21 (e)	05:19 (m)
16	21:32 (e)	03:27 (m)	20:53 (e)	04:16 (m)	20:07 (e)	04:51 (m)	19:20 (e)	05:20 (m)
17	21:32 (e)	03:29 (m)	20:51 (e)	04:17 (m)	20:05 (e)	04:52 (m)	19:18 (e)	05:21 (m)
18	21:31 (e)	03:31 (m)	20:50 (e)	04:19 (m)	20:03 (e)	04:53 (m)	19:34 (s)	05:22 (m)
19	21:30 (e)	03:32 (m)	21:12 (s)	04:20 (m)	20:02 (e)	04:54 (m)	20:20 (s)	05:23 (m)
20	21:34 (s)	03:34 (m)	21:44 (s)	04:21 (m)	20:20 (s)	04:55 (m)	21:11 (s)	05:24 (m)
21	22:06 (s)	03:35 (m)	22:19 (s)	04:23 (m)	20:57 (s)	04:56 (m)	22:09 (s)	05:24 (m)
22	22:38 (s)	03:37 (m)	22:56 (s)	04:24 (m)	21:38 (s)	04:57 (m)	23:11 (s)	05:25 (m)
23	23:09 (s)	03:38 (m)	23:39 (s)	04:26 (m)	22:24 (s)	04:58 (m)	00:17 (s)	05:26 (m)
24	23:42 (s)	03:40 (m)	00:27 (s)	04:27 (m)	23:17 (s)	04:59 (m)	01:23 (s)	05:27 (m)
25	00:18 (s)	03:42 (m)	01:23 (s)	04:28 (m)	00:15 (s)	05:00 (m)	02:30 (s)	05:28 (m)
26	00:58 (s)	03:43 (m)	02:25 (s)	04:30 (m)	01:19 (s)	05:01 (m)	03:35 (s)	05:28 (m)
27	01:44 (s)	03:45 (m)	03:32 (s)	04:31 (m)	02:25 (s)	05:02 (m)	04:39 (s)	05:29 (m)
28	02:37 (s)	03:46 (m)	None		03:33 (s)	05:03 (m)	None	
29	03:38 (s)	03:48 (m)			04:41 (s)	05:04 (m)	None	
30	None				None	None	None	
31	None				None	None	None	
MAY		JUNE		JULY		AUGUST		
1		None	18:42 (e)	19:24 (r)	18:45 (e)	19:55 (r)	19:03 (e)	21:37 (r)
2	19:01 (e)	19:16 (r)	18:42 (e)	20:14 (r)	18:46 (e)	20:51 (r)	19:04 (e)	22:35 (r)
3	19:00 (e)	19:57 (r)	18:42 (e)	21:07 (r)	18:46 (e)	21:48 (r)	19:04 (e)	23:35 (r)
4	18:59 (e)	20:42 (r)	18:42 (e)	22:02 (r)	18:47 (e)	22:45 (r)	19:05 (e)	00:38 (r)
5	18:58 (e)	21:31 (r)	18:42 (e)	22:59 (r)	18:47 (e)	23:44 (r)	19:06 (e)	01:42 (r)
6	18:57 (e)	22:22 (r)	18:42 (e)	23:56 (r)	18:48 (e)	00:44 (r)	19:06 (e)	02:48 (r)
7	18:57 (e)	23:16 (r)	18:41 (e)	00:55 (r)	18:48 (e)	01:46 (r)	19:07 (e)	03:55 (r)
8	18:56 (e)	00:12 (r)	18:41 (e)	01:55 (r)	18:49 (e)	02:51 (r)	19:08 (e)	05:00 (r)
9	18:55 (e)	01:10 (r)	18:41 (e)	02:58 (r)	18:49 (e)	03:58 (r)	19:09 (e)	05:42 (m)
10	18:54 (e)	02:09 (r)	18:41 (e)	04:03 (r)	18:50 (e)	05:07 (r)	19:09 (e)	05:41 (m)
11	18:53 (e)	03:10 (r)	18:41 (e)	05:12 (r)	18:50 (e)	06:01 (m)	19:10 (e)	05:40 (m)
12	18:52 (e)	04:12 (r)	18:41 (e)	05:59 (m)	18:51 (e)	06:01 (m)	19:11 (e)	05:39 (m)
13	18:52 (e)	05:18 (r)	18:41 (e)	05:59 (m)	18:51 (e)	06:00 (m)	19:51 (s)	05:38 (m)
14	18:51 (e)	05:42 (m)	18:41 (e)	05:59 (m)	18:52 (e)	06:00 (m)	21:00 (s)	05:37 (m)
15	18:50 (e)	05:43 (m)	18:45 (s)	06:00 (m)	19:52 (s)	06:00 (m)	22:07 (s)	05:36 (m)
16	18:50 (e)	05:43 (m)	19:52 (s)	06:00 (m)	21:03 (s)	05:59 (m)	23:11 (s)	05:35 (m)
17	19:02 (s)	05:44 (m)	21:02 (s)	06:00 (m)	22:12 (s)	05:59 (m)	00:13 (s)	05:33 (m)
18	19:59 (s)	05:45 (m)	22:11 (s)	06:01 (m)	23:17 (s)	05:58 (m)	01:13 (s)	05:32 (m)
19	21:02 (s)	05:45 (m)	23:19 (s)	06:01 (m)	00:21 (s)	05:58 (m)	02:11 (s)	05:31 (m)
20	22:08 (s)	05:46 (m)	00:24 (s)	06:01 (m)	01:22 (s)	05:57 (m)	03:06 (s)	05:30 (m)
21	23:15 (s)	05:47 (m)	01:27 (s)	06:01 (m)	02:22 (s)	05:57 (m)	03:57 (s)	05:29 (m)
22	00:22 (s)	05:47 (m)	02:29 (s)	06:01 (m)	03:20 (s)	05:56 (m)	04:45 (s)	05:27 (m)
23	01:28 (s)	05:48 (m)	03:29 (s)	06:02 (m)	04:17 (s)	05:56 (m)	None	
24	02:31 (s)	05:49 (m)	04:28 (s)	06:02 (m)	05:11 (s)	05:55 (m)	None	
25	03:34 (s)	05:49 (m)	05:26 (s)	06:02 (m)	None		None	
26	04:35 (s)	05:50 (m)	None		None		None	
27	05:35 (s)	05:51 (m)	None		None		None	
28	None		None		None		19:23 (e)	19:31 (r)
29	None		None		None		19:23 (e)	20:30 (r)
30	None		18:45 (e)	19:01 (r)	19:02 (e)	19:42 (r)	19:24 (e)	21:30 (r)
31	None				19:02 (e)	20:39 (r)	19:25 (e)	22:31 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	19:26 (e)	23:33 (r)	19:53 (e)	00:39 (r)	20:32 (e)	02:08 (r)	21:17 (e)	02:01 (r)
2	19:27 (e)	00:37 (r)	19:54 (e)	01:39 (r)	20:34 (e)	02:48 (r)	21:19 (e)	02:33 (r)
3	19:27 (e)	01:42 (r)	19:55 (e)	02:35 (r)	20:35 (e)	03:24 (r)	21:20 (e)	02:59 (m)
4	19:28 (e)	02:46 (r)	19:56 (e)	03:24 (r)	20:37 (e)	03:30 (m)	21:21 (e)	02:59 (m)
5	19:29 (e)	03:46 (r)	19:57 (e)	04:09 (r)	20:38 (e)	03:28 (m)	21:22 (e)	02:59 (m)
6	19:30 (e)	04:41 (r)	19:58 (e)	04:17 (m)	20:40 (e)	03:27 (m)	21:24 (e)	02:58 (m)
7	19:31 (e)	05:05 (m)	20:00 (e)	04:15 (m)	20:41 (e)	03:26 (m)	21:25 (e)	02:58 (m)
8	19:32 (e)	05:03 (m)	20:01 (e)	04:14 (m)	20:43 (e)	03:24 (m)	21:26 (e)	02:58 (m)
9	19:32 (e)	05:02 (m)	20:02 (e)	04:12 (m)	20:44 (e)	03:23 (m)	21:27 (e)	02:57 (m)
10	19:33 (e)	05:00 (m)	20:03 (e)	04:10 (m)	21:31 (s)	03:21 (m)	21:56 (s)	02:57 (m)
11	19:46 (s)	04:59 (m)	20:44 (s)	04:09 (m)	22:26 (s)	03:20 (m)	22:39 (s)	02:57 (m)
12	20:53 (s)	04:57 (m)	21:46 (s)	04:07 (m)	23:16 (s)	03:19 (m)	23:16 (s)	02:57 (m)
13	21:58 (s)	04:56 (m)	22:46 (s)	04:05 (m)	00:01 (s)	03:18 (m)	23:50 (s)	02:57 (m)
14	23:00 (s)	04:54 (m)	23:43 (s)	04:04 (m)	00:41 (s)	03:16 (m)	00:21 (s)	02:57 (m)
15	00:01 (s)	04:52 (m)	00:35 (s)	04:02 (m)	01:17 (s)	03:15 (m)	00:50 (s)	02:57 (m)
16	00:58 (s)	04:51 (m)	01:22 (s)	04:00 (m)	01:50 (s)	03:14 (m)	01:19 (s)	02:58 (m)
17	01:52 (s)	04:49 (m)	02:05 (s)	03:59 (m)	02:20 (s)	03:13 (m)	01:48 (s)	02:58 (m)
18	02:41 (s)	04:48 (m)	02:43 (s)	03:57 (m)	02:50 (s)	03:12 (m)	02:19 (s)	02:58 (m)
19	03:26 (s)	04:46 (m)	03:18 (s)	03:55 (m)	None		02:53 (s)	02:58 (m)
20	04:07 (s)	04:44 (m)	03:50 (s)	03:54 (m)	None		None	
21	None		None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		21:09 (e)	21:26 (r)	21:39 (e)	22:04 (r)
26	None		None		21:10 (e)	22:27 (r)	21:39 (e)	22:50 (r)
27	19:49 (e)	20:24 (r)	20:25 (e)	21:28 (r)	21:12 (e)	23:22 (r)	21:39 (e)	23:29 (r)
28	19:50 (e)	21:27 (r)	20:27 (e)	22:33 (r)	21:13 (e)	00:09 (r)	21:39 (e)	00:04 (r)
29	19:51 (e)	22:31 (r)	20:28 (e)	23:35 (r)	21:15 (e)	00:51 (r)	21:39 (e)	00:37 (r)
30	19:52 (e)	23:36 (r)	20:29 (e)	00:32 (r)	21:16 (e)	01:27 (r)	21:39 (e)	01:08 (r)
31			20:31 (e)	01:01 (r)			21:39 (e)	01:40 (r)

PERTH (WST)

HOURS of DARKNESS 2018

SYDNEY (EST)

	JANUARY		FEBRUARY		MARCH		APRIL	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		None		None		None	
2	None		None		None		19:33 (e)	19:36 (r)
3	None		20:48 (e)	21:23 (r)	None		19:31 (e)	20:14 (r)
4	21:05 (e)	21:26 (r)	20:47 (e)	22:00 (r)	20:12 (e)	20:30 (r)	19:30 (e)	20:53 (r)
5	21:05 (e)	22:11 (r)	20:46 (e)	22:35 (r)	20:10 (e)	21:06 (r)	19:29 (e)	21:34 (r)
6	21:05 (e)	22:51 (r)	20:45 (e)	23:10 (r)	20:09 (e)	21:42 (r)	19:28 (e)	22:18 (r)
7	21:05 (e)	23:28 (r)	20:43 (e)	23:46 (r)	20:08 (e)	22:19 (r)	19:26 (e)	23:05 (r)
8	21:05 (e)	00:03 (r)	20:42 (e)	00:23 (r)	20:06 (e)	22:59 (r)	19:25 (e)	23:54 (r)
9	21:05 (e)	00:37 (r)	20:41 (e)	01:03 (r)	20:05 (e)	23:41 (r)	19:24 (e)	00:46 (r)
10	21:04 (e)	01:11 (r)	20:40 (e)	01:46 (r)	20:03 (e)	00:25 (r)	19:23 (e)	01:40 (r)
11	21:04 (e)	01:47 (r)	20:39 (e)	02:31 (r)	20:02 (e)	01:13 (r)	19:22 (e)	02:35 (r)
12	21:04 (e)	02:25 (r)	20:38 (e)	03:20 (r)	20:01 (e)	02:04 (r)	19:21 (e)	03:31 (r)
13	21:03 (e)	03:05 (r)	20:36 (e)	04:12 (r)	19:59 (e)	02:56 (r)	19:19 (e)	04:29 (r)
14	21:03 (e)	03:49 (m)	20:35 (e)	04:27 (m)	19:58 (e)	03:51 (r)	19:18 (e)	05:16 (m)
15	21:02 (e)	03:50 (m)	20:34 (e)	04:28 (m)	19:57 (e)	04:47 (r)	19:17 (e)	05:16 (m)
16	21:02 (e)	03:51 (m)	20:33 (e)	04:29 (m)	19:55 (e)	04:56 (m)	19:16 (e)	05:17 (m)
17	21:01 (e)	03:52 (m)	20:32 (e)	04:30 (m)	19:54 (e)	04:56 (m)	19:15 (e)	05:18 (m)
18	21:01 (e)	03:54 (m)	20:38 (s)	04:31 (m)	19:52 (e)	04:57 (m)	19:45 (s)	05:18 (m)
19	21:00 (e)	03:55 (m)	21:12 (s)	04:32 (m)	19:51 (e)	04:58 (m)	20:33 (s)	05:19 (m)
20	21:27 (s)	03:56 (m)	21:47 (s)	04:33 (m)	20:25 (s)	04:59 (m)	21:26 (s)	05:19 (m)
21	22:02 (s)	03:57 (m)	22:25 (s)	04:34 (m)	21:05 (s)	05:00 (m)	22:25 (s)	05:20 (m)
22	22:36 (s)	03:59 (m)	23:05 (s)	04:35 (m)	21:49 (s)	05:00 (m)	23:26 (s)	05:21 (m)
23	23:10 (s)	04:00 (m)	23:51 (s)	04:36 (m)	22:37 (s)	05:01 (m)	00:30 (s)	05:21 (m)
24	23:46 (s)	04:01 (m)	00:41 (s)	04:38 (m)	23:31 (s)	05:02 (m)	01:34 (s)	05:22 (m)
25	00:25 (s)	04:02 (m)	01:38 (s)	04:39 (m)	00:31 (s)	05:02 (m)	02:38 (s)	05:22 (m)
26	01:08 (s)	04:04 (m)	02:40 (s)	04:40 (m)	01:33 (s)	05:03 (m)	03:40 (s)	05:23 (m)
27	01:57 (s)	04:05 (m)	03:46 (s)	04:41 (m)	02:38 (s)	05:04 (m)	04:41 (s)	05:23 (m)
28	02:52 (s)	04:06 (m)	None		03:43 (s)	05:05 (m)	None	
29	03:54 (s)	04:07 (m)			04:48 (s)	05:05 (m)	None	
30	None				None		None	
31	None				None		None	
	MAY		JUNE		JULY		AUGUST	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		18:47 (e)	19:39 (r)	18:50 (e)	20:08 (r)	19:05 (e)	21:40 (r)
2	19:01 (e)	19:28 (r)	18:46 (e)	20:29 (r)	18:51 (e)	21:02 (r)	19:05 (e)	22:36 (r)
3	19:00 (e)	20:11 (r)	18:46 (e)	21:21 (r)	18:51 (e)	21:56 (r)	19:06 (e)	23:33 (r)
4	18:59 (e)	20:57 (r)	18:46 (e)	22:14 (r)	18:51 (e)	22:51 (r)	19:06 (e)	00:33 (r)
5	18:59 (e)	21:46 (r)	18:46 (e)	23:08 (r)	18:52 (e)	23:46 (r)	19:07 (e)	01:34 (r)
6	18:58 (e)	22:36 (r)	18:46 (e)	00:03 (r)	18:52 (e)	00:43 (r)	19:07 (e)	02:38 (r)
7	18:57 (e)	23:29 (r)	18:46 (e)	00:59 (r)	18:53 (e)	01:43 (r)	19:08 (e)	03:43 (r)
8	18:57 (e)	00:23 (r)	18:46 (e)	01:57 (r)	18:53 (e)	02:45 (r)	19:08 (e)	04:47 (r)
9	18:56 (e)	01:18 (r)	18:46 (e)	02:57 (r)	18:53 (e)	03:50 (r)	19:09 (e)	05:35 (m)
10	18:55 (e)	02:15 (r)	18:46 (e)	03:59 (r)	18:54 (e)	04:57 (r)	19:09 (e)	05:34 (m)
11	18:55 (e)	03:13 (r)	18:46 (e)	05:04 (r)	18:54 (e)	05:50 (m)	19:10 (e)	05:33 (m)
12	18:54 (e)	04:13 (r)	18:46 (e)	05:47 (m)	18:55 (e)	05:50 (m)	19:10 (e)	05:33 (m)
13	18:54 (e)	05:15 (r)	18:46 (e)	05:47 (m)	18:55 (e)	05:49 (m)	19:58 (s)	05:32 (m)
14	18:53 (e)	05:33 (m)	18:46 (e)	05:48 (m)	18:56 (e)	05:49 (m)	21:04 (s)	05:31 (m)
15	18:52 (e)	05:34 (m)	19:01 (s)	05:48 (m)	20:04 (s)	05:49 (m)	22:07 (s)	05:30 (m)
16	18:52 (e)	05:34 (m)	20:07 (s)	05:48 (m)	21:12 (s)	05:49 (m)	23:08 (s)	05:29 (m)
17	19:16 (s)	05:35 (m)	21:15 (s)	05:48 (m)	22:17 (s)	05:48 (m)	00:07 (s)	05:28 (m)
18	20:15 (s)	05:35 (m)	22:22 (s)	05:49 (m)	23:19 (s)	05:48 (m)	01:04 (s)	05:27 (m)
19	21:17 (s)	05:36 (m)	23:26 (s)	05:49 (m)	00:19 (s)	05:48 (m)	02:00 (s)	05:26 (m)
20	22:22 (s)	05:36 (m)	00:28 (s)	05:49 (m)	01:18 (s)	05:47 (m)	02:53 (s)	05:25 (m)
21	23:27 (s)	05:37 (m)	01:28 (s)	05:49 (m)	02:15 (s)	05:47 (m)	03:44 (s)	05:24 (m)
22	00:31 (s)	05:38 (m)	02:26 (s)	05:50 (m)	03:11 (s)	05:46 (m)	04:31 (s)	05:23 (m)
23	01:34 (s)	05:38 (m)	03:24 (s)	05:50 (m)	04:05 (s)	05:46 (m)	05:16 (s)	05:22 (m)
24	02:34 (s)	05:39 (m)	04:20 (s)	05:50 (m)	04:58 (s)	05:46 (m)	None	
25	03:33 (s)	05:39 (m)	05:16 (s)	05:50 (m)	None		None	
26	04:31 (s)	05:40 (m)	None		None		None	
27	05:29 (s)	05:40 (m)	None		None		None	
28	None		None		None		19:19 (e)	19:36 (r)
29	None		None		None		19:19 (e)	20:31 (r)
30	None		18:50 (e)	19:15 (r)	19:04 (e)	19:51 (r)	19:20 (e)	21:28 (r)
31	18:47 (e)	18:51 (r)			19:04 (e)	20:45 (r)	19:21 (e)	22:26 (r)
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Begin	End	Begin	End	Begin	End	Begin	End
1	19:21 (e)	23:26 (r)	19:41 (e)	00:26 (r)	20:10 (e)	01:58 (r)	20:45 (e)	01:58 (r)
2	19:22 (e)	00:28 (r)	19:41 (e)	01:26 (r)	20:11 (e)	02:40 (r)	20:47 (e)	02:33 (r)
3	19:22 (e)	01:31 (r)	19:42 (e)	02:22 (r)	20:12 (e)	03:19 (r)	20:48 (e)	03:08 (r)
4	19:23 (e)	02:33 (r)	19:43 (e)	03:13 (r)	20:14 (e)	03:46 (m)	20:49 (e)	03:25 (m)
5	19:23 (e)	03:33 (r)	19:44 (e)	03:59 (r)	20:15 (e)	03:45 (m)	20:50 (e)	03:25 (m)
6	19:24 (e)	04:29 (r)	19:45 (e)	04:24 (m)	20:16 (e)	03:44 (m)	20:51 (e)	03:25 (m)
7	19:25 (e)	05:04 (m)	19:46 (e)	04:23 (m)	20:17 (e)	03:43 (m)	20:52 (e)	03:24 (m)
8	19:25 (e)	05:03 (m)	19:46 (e)	04:21 (m)	20:18 (e)	03:42 (m)	20:53 (e)	03:24 (m)
9	19:26 (e)	05:02 (m)	19:47 (e)	04:20 (m)	20:21 (s)	03:41 (m)	20:55 (s)	03:24 (m)
10	19:26 (e)	05:00 (m)	19:48 (e)	04:19 (m)	21:18 (s)	03:40 (m)	21:42 (s)	03:24 (m)
11	19:48 (s)	04:59 (m)	20:37 (s)	04:17 (m)	22:12 (s)	03:39 (m)	22:25 (s)	03:24 (m)
12	20:51 (s)	04:58 (m)	21:37 (s)	04:16 (m)	23:02 (s)	03:38 (m)	23:05 (s)	03:25 (m)
13	21:53 (s)	04:56 (m)	22:35 (s)	04:14 (m)	23:47 (s)	03:37 (m)	23:40 (s)	03:25 (m)
14	22:53 (s)	04:55 (m)	23:30 (s)	04:13 (m)	00:29 (s)	03:36 (m)	00:14 (s)	03:25 (m)
15	23:50 (s)	04:54 (m)	00:21 (s)	04:12 (m)	01:06 (s)	03:35 (m)	00:46 (s)	03:25 (m)
16	00:46 (s)	04:52 (m)	01:08 (s)	04:10 (m)	01:41 (s)	03:35 (m)	01:17 (s)	03:25 (m)
17	01:38 (s)	04:51 (m)	01:52 (s)	04:09 (m)	02:14 (s)	03:34 (m)	01:49 (s)	03:26 (m)
18	02:27 (s)	04:50 (m)	02:31 (s)	04:08 (m)	02:47 (s)	03:33 (m)	02:23 (s)	03:26 (m)
19	03:13 (s)	04:48 (m)	03:08 (s)	04:06 (m)	03:19 (s)	03:32 (m)	03:01 (s)	03:26 (m)
20	03:55 (s)	04:47 (m)	03:43 (s)	04:05 (m)	None		None	
21	04:33 (s)	04:45 (m)	None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		20:39 (e)	21:13 (r)	21:04 (e)	21:52 (r)
26	None		20:04 (e)	20:14 (r)	20:40 (e)	22:14 (r)	21:04 (e)	22:40 (r)
27	19:38 (e)	20:21 (r)	20:05 (e)	21:17 (r)	20:41 (e)	23:09 (r)	21:04 (e)	23:22 (r)
28	19:38 (e)	21:21 (r)	20:06 (e)	22:21 (r)	20:42 (e)	23:58 (r)	21:05 (e)	00:00 (r)
29	19:39 (e)	22:22 (r)	20:07 (e)	23:22 (r)	20:43 (e)	00:42 (r)	21:05 (e)	00:36 (r)
30	19:40 (e)	23:24 (r)	20:08 (e)	00:19 (r)	20:44 (e)	01:21 (r)	21:05 (e)	01:11 (r)
31			20:09 (e)	01:11 (r)			21:05 (e)	01:46 (r)

Note: For the Hours of Darkness tables, any time after midnight refers to the following morning. An entry of None means the Moon is up the entire time between evening and morning twilight. For the notes after each time: (e) dark starts at end of evening twilight, (s) dark starts at Moon set, (r) dark ends with Moon rise and (m) dark ends with morning twilight.

	JANUARY		FEBRUARY		MARCH		APRIL	
	Begin	End	Begin	End	Begin	End	Begin	End
1	None		None		None		None	
2	None		None		None		None	
3	None		20:33 (e)	20:59 (r)	None		19:11 (e)	19:46 (r)
4	20:53 (e)	21:03 (r)	20:31 (e)	21:35 (r)	19:54 (e)	20:04 (r)	19:09 (e)	20:24 (r)
5	20:53 (e)	21:48 (r)	20:30 (e)	22:10 (r)	19:52 (e)	20:39 (r)	19:08 (e)	21:04 (r)
6	20:52 (e)	22:28 (r)	20:29 (e)	22:44 (r)	19:51 (e)	21:15 (r)	19:07 (e)	21:48 (r)
7	20:52 (e)	23:04 (r)	20:28 (e)	23:18 (r)	19:49 (e)	21:51 (r)	19:06 (e)	22:34 (r)
8	20:52 (e)	23:38 (r)	20:27 (e)	23:55 (r)	19:48 (e)	22:30 (r)	19:04 (e)	23:23 (r)
9	20:52 (e)	00:11 (r)	20:25 (e)	00:34 (r)	19:46 (e)	23:11 (r)	19:03 (e)	00:15 (r)
10	20:51 (e)	00:44 (r)	20:24 (e)	01:16 (r)	19:45 (e)	23:55 (r)	19:02 (e)	01:09 (r)
11	20:51 (e)	01:19 (r)	20:23 (e)	02:01 (r)	19:43 (e)	00:42 (r)	19:01 (e)	02:05 (r)
12	20:51 (e)	01:56 (r)	20:22 (e)	02:49 (r)	19:42 (e)	01:33 (r)	18:59 (e)	03:02 (r)
13	20:50 (e)	02:35 (r)	20:20 (e)	03:41 (r)	19:40 (e)	02:26 (r)	18:58 (e)	04:01 (r)
14	20:50 (e)	03:18 (r)	20:19 (e)	04:00 (m)	19:39 (e)	03:21 (r)	18:57 (e)	04:54 (m)
15	20:49 (e)	03:20 (m)	20:18 (e)	04:01 (m)	19:38 (e)	04:17 (r)	18:56 (e)	04:55 (m)
16	20:48 (e)	03:21 (m)	20:16 (e)	04:02 (m)	19:36 (e)	04:32 (m)	18:55 (e)	04:55 (m)
17	20:48 (e)	03:23 (m)	20:15 (e)	04:03 (m)	19:35 (e)	04:33 (m)	18:53 (e)	04:56 (m)
18	20:47 (e)	03:24 (m)	20:14 (e)	04:05 (m)	19:33 (e)	04:33 (m)	19:16 (s)	04:57 (m)
19	20:47 (e)	03:25 (m)	20:47 (s)	04:06 (m)	19:32 (e)	04:34 (m)	20:02 (s)	04:57 (m)
20	21:04 (s)	03:27 (m)	21:21 (s)	04:07 (m)	19:58 (s)	04:35 (m)	20:55 (s)	04:58 (m)
21	21:38 (s)	03:28 (m)	21:57 (s)	04:08 (m)	20:37 (s)	04:36 (m)	21:53 (s)	04:59 (m)
22	22:11 (s)	03:29 (m)	22:37 (s)	04:09 (m)	21:19 (s)	04:37 (m)	22:54 (s)	04:59 (m)
23	22:45 (s)	03:31 (m)	23:21 (s)	04:10 (m)	22:07 (s)	04:38 (m)	23:59 (s)	05:00 (m)
24	23:19 (s)	03:32 (m)	00:10 (s)	04:12 (m)	23:00 (s)	04:38 (m)	01:04 (s)	05:01 (m)
25	23:57 (s)	03:33 (m)	01:06 (s)	04:13 (m)	23:59 (s)	04:39 (m)	02:08 (s)	05:01 (m)
26	00:39 (s)	03:35 (m)	02:08 (s)	04:14 (m)	01:01 (s)	04:40 (m)	03:11 (s)	05:02 (m)
27	01:26 (s)	03:36 (m)	03:14 (s)	04:15 (m)	02:07 (s)	04:41 (m)	04:13 (s)	05:03 (m)
28	02:20 (s)	03:37 (m)	None		03:13 (s)	04:42 (m)	None	
29	03:21 (s)	03:39 (m)			04:18 (s)	04:42 (m)	None	
30	None				None		None	
31	None				None		None	
MAY		JUNE		JULY		AUGUST		
1	None	18:23 (e)	19:08 (r)	18:26 (e)	19:37 (r)	18:41 (e)	21:12 (r)	
2	18:38 (e)	18:58 (r)	18:22 (e)	19:58 (r)	18:26 (e)	20:32 (r)	18:42 (e)	22:09 (r)
3	18:38 (e)	19:41 (r)	18:22 (e)	20:50 (r)	18:27 (e)	21:27 (r)	18:42 (e)	23:07 (r)
4	18:37 (e)	20:26 (r)	18:22 (e)	21:44 (r)	18:27 (e)	22:22 (r)	18:43 (e)	00:07 (r)
5	18:36 (e)	21:15 (r)	18:22 (e)	22:39 (r)	18:28 (e)	23:19 (r)	18:44 (e)	01:09 (r)
6	18:35 (e)	22:06 (r)	18:22 (e)	23:34 (r)	18:28 (e)	00:16 (r)	18:44 (e)	02:14 (r)
7	18:34 (e)	22:59 (r)	18:22 (e)	00:31 (r)	18:28 (e)	01:17 (r)	18:45 (e)	03:19 (r)
8	18:34 (e)	23:53 (r)	18:22 (e)	01:29 (r)	18:29 (e)	02:19 (r)	18:45 (e)	04:24 (r)
9	18:33 (e)	00:49 (r)	18:22 (e)	02:30 (r)	18:29 (e)	03:25 (r)	18:46 (e)	05:15 (m)
10	18:32 (e)	01:46 (r)	18:22 (e)	03:33 (r)	18:30 (e)	04:32 (r)	18:46 (e)	05:14 (m)
11	18:31 (e)	02:45 (r)	18:22 (e)	04:39 (r)	18:30 (e)	05:31 (m)	18:47 (e)	05:13 (m)
12	18:31 (e)	03:45 (r)	18:22 (e)	05:28 (m)	18:31 (e)	05:31 (m)	18:48 (e)	05:12 (m)
13	18:30 (e)	04:48 (r)	18:22 (e)	05:28 (m)	18:31 (e)	05:30 (m)	19:28 (s)	05:11 (m)
14	18:30 (e)	05:13 (m)	18:22 (e)	05:29 (m)	18:32 (e)	05:30 (m)	20:35 (s)	05:10 (m)
15	18:29 (e)	05:14 (m)	18:28 (s)	05:29 (m)	19:32 (s)	05:30 (m)	21:40 (s)	05:09 (m)
16	18:28 (e)	05:15 (m)	19:35 (s)	05:29 (m)	20:41 (s)	05:29 (m)	22:42 (s)	05:08 (m)
17	18:45 (s)	05:15 (m)	20:43 (s)	05:30 (m)	21:48 (s)	05:29 (m)	23:42 (s)	05:07 (m)
18	19:43 (s)	05:16 (m)	21:51 (s)	05:30 (m)	22:52 (s)	05:29 (m)	00:40 (s)	05:06 (m)
19	20:45 (s)	05:16 (m)	22:57 (s)	05:30 (m)	23:53 (s)	05:28 (m)	01:36 (s)	05:05 (m)
20	21:50 (s)	05:17 (m)	00:00 (s)	05:30 (m)	00:52 (s)	05:28 (m)	02:30 (s)	05:04 (m)
21	22:56 (s)	05:17 (m)	01:01 (s)	05:31 (m)	01:50 (s)	05:27 (m)	03:22 (s)	05:03 (m)
22	00:01 (s)	05:18 (m)	02:00 (s)	05:31 (m)	02:47 (s)	05:27 (m)	04:10 (s)	05:02 (m)
23	01:05 (s)	05:19 (m)	02:58 (s)	05:31 (m)	03:42 (s)	05:27 (m)	04:54 (s)	05:01 (m)
24	02:06 (s)	05:19 (m)	03:56 (s)	05:31 (m)	04:35 (s)	05:26 (m)	None	
25	03:06 (s)	05:20 (m)	04:52 (s)	05:31 (m)	None		None	
26	04:06 (s)	05:20 (m)	None		None		None	
27	05:04 (s)	05:21 (m)	None		None		None	
28	None		None		None		18:57 (e)	19:08 (r)
29	None		None		None		18:58 (e)	20:04 (r)
30	None		18:26 (e)	18:44 (r)	18:40 (e)	19:21 (r)	18:59 (e)	21:02 (r)
31	None				18:41 (e)	20:17 (r)	18:59 (e)	22:01 (r)
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		
1	19:00 (e)	23:01 (r)	19:22 (e)	00:03 (r)	19:54 (e)	01:35 (r)	20:32 (e)	01:34 (r)
2	19:00 (e)	00:04 (r)	19:23 (e)	01:03 (r)	19:55 (e)	02:17 (r)	20:33 (e)	02:08 (r)
3	19:01 (e)	01:07 (r)	19:23 (e)	01:59 (r)	19:57 (e)	02:55 (r)	20:35 (e)	02:42 (r)
4	19:02 (e)	02:10 (r)	19:24 (e)	02:50 (r)	19:58 (e)	03:19 (m)	20:36 (e)	02:55 (m)
5	19:02 (e)	03:10 (r)	19:25 (e)	03:37 (r)	19:59 (e)	03:18 (m)	20:37 (e)	02:54 (m)
6	19:03 (e)	04:06 (r)	19:26 (e)	04:00 (m)	20:00 (e)	03:16 (m)	20:38 (e)	02:54 (m)
7	19:04 (e)	04:42 (m)	19:27 (e)	03:58 (m)	20:02 (e)	03:15 (m)	20:39 (e)	02:54 (m)
8	19:04 (e)	04:41 (m)	19:28 (e)	03:57 (m)	20:03 (e)	03:14 (m)	20:40 (e)	02:54 (m)
9	19:05 (e)	04:39 (m)	19:29 (e)	03:55 (m)	20:04 (e)	03:13 (m)	20:41 (e)	02:54 (m)
10	19:06 (e)	04:38 (m)	19:30 (e)	03:54 (m)	20:06 (s)	03:12 (m)	21:21 (s)	02:54 (m)
11	19:20 (s)	04:36 (m)	20:12 (s)	03:52 (m)	21:50 (s)	03:11 (m)	22:04 (s)	02:54 (m)
12	20:25 (s)	04:35 (m)	21:13 (s)	03:51 (m)	22:40 (s)	03:10 (m)	22:43 (s)	02:54 (m)
13	21:27 (s)	04:34 (m)	22:12 (s)	03:49 (m)	23:26 (s)	03:09 (m)	23:18 (s)	02:54 (m)
14	22:28 (s)	04:32 (m)	23:07 (s)	03:48 (m)	00:07 (s)	03:08 (m)	23:51 (s)	02:54 (m)
15	23:27 (s)	04:31 (m)	23:59 (s)	03:46 (m)	00:44 (s)	03:07 (m)	00:22 (s)	02:54 (m)
16	00:23 (s)	04:29 (m)	00:47 (s)	03:45 (m)	01:19 (s)	03:06 (m)	00:53 (s)	02:55 (m)
17	01:16 (s)	04:28 (m)	01:30 (s)	03:43 (m)	01:51 (s)	03:05 (m)	01:24 (s)	02:55 (m)
18	02:05 (s)	04:26 (m)	02:10 (s)	03:42 (m)	02:23 (s)	03:04 (m)	01:57 (s)	02:55 (m)
19	02:51 (s)	04:25 (m)	02:46 (s)	03:40 (m)	02:54 (s)	03:03 (m)	02:33 (s)	02:56 (m)
20	03:33 (s)	04:24 (m)	03:20 (s)	03:39 (m)	None		None	
21	04:11 (s)	04:22 (m)	None		None		None	
22	None		None		None		None	
23	None		None		None		None	
24	None		None		None		None	
25	None		None		20:25 (e)	20:50 (r)	20:52 (e)	21:30 (r)
26	None		19:47 (e)	19:49 (r)	20:26 (e)	21:51 (r)	20:52 (e)	22:17 (r)
27	19:18 (e)	19:55 (r)	19:48 (e)	20:53 (r)	20:27 (e)	22:46 (r)	20:52 (e)	22:59 (r)
28	19:19 (e)	20:56 (r)	19:49 (e)	21:57 (r)	20:29 (e)	23:36 (r)	20:52 (e)	23:36 (r)
29	19:20 (e)	21:58 (r)	19:51 (e)	22:59 (r)	20:30 (e)	00:19 (r)	20:53 (e)	00:11 (r)
30	19:21 (e)	23:01 (r)	19:52 (e)	23:57 (r)	20:31 (e)	00:58 (r)	20:53 (e)	00:45 (r)
31			19:53 (e)	00:49 (r)			20:53 (e)	01:19 (r)