

TIMES OF MOONRISE AND MOONSET FOR ARUBA AT SEALEVEL IN 2019

Date	January		February		March		April		May		June		July		August		September		October		November		December		Date	
	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set	rise	set		
1	03:10	15:09	04:32	16:15	03:19	15:01	04:17	16:11	04:12	16:26	04:48	17:36	05:04	18:13	06:50	19:54	08:37	21:02	09:15	21:14	10:49	22:30	11:11	22:56	1	
2	04:01	15:54	05:22	17:04	04:07	15:50	04:57	16:58	04:51	17:14	05:34	18:31	06:01	19:14	07:54	20:47	09:35	21:49	10:13	<u>22:04</u>	11:42	23:23	11:56	23:46	2	
3	04:53	16:40	06:09	17:54	04:53	16:39	05:36	17:45	05:30	18:02	06:23	19:29	07:03	20:14	08:55	21:37	10:32	22:36	11:10	22:55	12:32		12:37		3	
4	05:45	17:29	06:55	18:43	05:37	17:28	06:15	18:32	06:11	18:53	07:18	20:28	08:05	21:12	09:54	22:25	11:29	23:24	12:06	23:47	<u>13:18</u>	<u>00:15</u>	<u>13:16</u>	<u>00:34</u>	4	
5	06:36	18:18	07:38	19:31	06:18	18:15	06:53	19:19	06:54	19:46	08:16	21:28	09:08	22:06	10:51	23:10	<u>12:24</u>		<u>12:59</u>		14:00	01:05	13:53	01:20	5	
6	07:25	19:08	08:19	20:18	06:58	19:02	07:33	20:08	07:41	20:41	09:16	22:26	10:09	22:56	11:47	23:56	13:19	00:13	13:50	00:40	14:40	01:54	14:30	02:06	6	
7	08:13	19:58	08:59	21:05	07:37	19:49	08:14	20:59	08:32	21:39	10:18	23:20	11:07	23:44	<u>12:47</u>		14:13	01:03	14:37	01:31	15:18	02:40	15:07	02:51	7	
8	08:57	20:47	09:37	21:51	08:15	20:35	08:58	21:52	09:27	22:37	11:18		12:03		13:36	00:41	15:04	01:54	15:21	02:22	15:55	03:26	15:45	03:38	8	
9	09:40	21:34	10:15	22:37	08:54	21:23	09:45	22:47	10:24	23:35	12:16	00:11	<u>12:58</u>	<u>00:29</u>	14:30	01:28	15:53	02:45	16:02	03:11	16:32	04:12	16:26	04:26	9	
10	10:20	22:21	10:54	23:25	09:33	22:11	10:36	23:44	11:24		<u>13:12</u>	<u>00:59</u>	13:52	01:13	15:24	02:16	16:39	03:36	16:42	03:58	17:10	04:58	17:11	05:17	10	
11	10:59	23:08	11:34		10:15	23:02	11:31		<u>12:24</u>	<u>00:30</u>	14:07	01:45	14:45	01:57	16:16	03:06	17:22	04:26	17:19	04:45	17:50	05:45	18:00	06:11	11	
12	11:37	23:54	<u>12:17</u>	<u>00:15</u>	11:00	23:56	<u>12:29</u>	<u>00:41</u>	13:23	01:23	15:01	02:29	15:39	02:43	17:07	03:57	18:03	05:14	17:56	05:30	18:32	06:35	18:53	07:07	12	
13	12:16		13:04	01:07	11:48		13:29	01:38	14:20	02:13	15:55	03:14	16:34	03:30	17:55	04:49	18:42	06:01	18:33	06:16	19:18	07:26	19:50	08:05	13	
14	<u>12:56</u>	<u>00:42</u>	13:55	02:03	<u>12:41</u>	<u>00:51</u>	14:30	02:34	15:17	03:00	16:50	03:59	17:28	04:19	18:41	05:39	19:19	06:48	19:12	07:03	20:07	08:20	20:49	09:03	14	
15	13:38	01:31	14:51	03:01	13:38	01:49	15:30	03:27	16:12	03:46	17:45	04:45	18:20	05:10	19:23	06:29	19:56	07:33	19:52	07:50	<u>21:07</u>	<u>09:16</u>	21:49	09:59	15	
16	14:24	02:23	15:52	04:02	14:38	02:48	16:29	04:17	17:08	04:31	18:40	05:34	19:11	06:02	20:03	07:17	20:33	08:19	20:35	08:40	21:57	10:13	22:48	10:52	16	
17	15:15	03:19	16:56	05:03	15:40	03:46	17:27	05:05	18:03	05:17	19:35	06:25	19:58	06:53	20:41	08:04	21:12	09:05	21:21	09:31	22:56	11:09	23:46	11:42	17	
18	16:10	04:18	18:01	06:03	16:43	04:43	18:24	05:52	18:59	06:04	20:27	07:17	20:43	07:44	21:19	08:50	21:52	09:53	22:11	10:25	23:55	12:03		12:29	18	
19	17:11	05:20	19:04	06:59	17:45	05:37	19:21	06:39	19:56	06:52	21:17	08:09	21:25	08:33	21:56	09:35	22:36	10:43	23:05	11:21		<u>12:54</u>	<u>00:42</u>	<u>13:14</u>	19	
20	18:15	06:23	20:06	07:53	18:45	06:28	20:17	07:26	20:51	07:43	22:03	09:00	22:04	09:21	22:33	10:21	23:24	11:35		12:17	00:53	13:43	01:37	13:59	20	
21	19:21	07:25	21:05	08:43	19:44	07:17	21:14	08:14	21:45	08:34	22:47	09:51	22:42	10:08	23:12	11:08		<u>12:30</u>	00:02	<u>13:12</u>	01:50	14:30	02:32	14:43	21	
22	20:25	08:23	22:02	09:30	20:41	08:04	22:09	<u>09:04</u>	22:36	09:26	23:28	10:39	23:19	10:53	23:55	11:56	00:16	13:26	01:01	14:06	02:47	15:16	03:28	15:30	22	
23	21:26	09:17	22:57	10:17	21:37	08:51	23:03	09:54	23:24	10:18		11:26	23:57	11:39		<u>12:48</u>	01:12	14:24	02:01	14:58	03:43	16:02	04:24	16:18	23	
24	22:24	10:08	23:51	11:02	22:33	09:38	23:55	10:46		11:09	00:06	12:13		12:25	00:40	13:42	02:11	15:21	03:01	15:48	04:40	16:48	05:22	17:09	24	
25	23:20	10:55		11:48	23:28	10:26		11:37	00:09	11:58	<u>00:44</u>	<u>12:59</u>	00:35	13:13	01:31	14:39	03:13	16:16	04:00	16:36	05:38	17:37	06:19	18:02	25	
26		11:40	<u>00:44</u>	<u>12:35</u>		11:15	<u>00:44</u>	<u>12:27</u>	<u>00:51</u>	<u>12:46</u>	01:22	13:45	01:16	14:04	02:26	15:38	04:15	17:09	04:59	17:24	06:36	18:28	07:16	18:57	26	
27	<u>00:14</u>	<u>12:24</u>	01:37	13:23	00:21	12:05	01:30	13:17	01:31	13:33	02:00	14:33	02:01	14:58	03:26	16:38	05:17	18:00	05:57	18:11	07:35	19:21	08:11	19:52	27	
28	01:06	13:08	02:28	14:11	<u>01:13</u>	<u>12:55</u>	02:14	14:05	02:09	14:19	02:41	15:23	02:50	15:56	04:29	17:36	06:18	18:49	06:56	19:00	08:34	20:16	09:02	20:46	28	
29	01:58	13:52			02:03	13:45	02:55	14:53	02:47	15:06	03:24	16:17	03:44	16:55	05:33	18:32	07:17	19:37	07:55	19:50	09:30	<u>21:11</u>	09:49	21:37	29	
30	02:50	14:38			02:50	14:35	03:34	15:40	03:26	15:54	04:12	17:14	04:44	17:56	06:36	19:24	08:16	20:25	08:54	20:42	10:22	22:04	10:32	22:26	30	
31	03:41	15:26			03:34	15:23			04:05	16:43				05:46	18:56	07:38	20:14			09:52	<u>21:36</u>			11:12	23:13	31

New Moon

First Quarter

Full Moon

Last Quarter

Sources: Moonrise 3.5 & Fred Espenak

Eclipses:

Local Times

Partial Solar Eclipse on January 5. Not visible in Aruba, but in northeastern Asia and the northern Pacific Ocean. Event starts at 19:35 hours, greatest eclipse occurs at 21:41 hours and eclipse ends at 23:50 hours.

Total Lunar Eclipse on January 20/21. It will be visible in Aruba and all of the Americas, most of the Atlantic and eastern Pacific Ocean. The partial phase starts at 23:35 hours and totality at 00:42 hours on the 21st. Greatest eclipse occurs at 01:13 hours and the totality ends at 01:44 hours. The partial phase ends at 02:51 hours.

Total Solar Eclipse on July 2. Not visible in Aruba, but only in southern Pacific Ocean, Chile and Argentina. It starts at 12:55 hours, reaches greatest eclipse at 15:23 hours and ends at 17:50 hours.

Partial Lunar Eclipse on July 16. Its end (penumbra phase) will be barely visible in Aruba after moonrise at 19:11 (till 20:17 hours). It will be fully visible in much of Africa, eastern Europe and southwestern Asia. Partial phase starts at 16:03 hours and ends at 19:00 hours. Greatest eclipse occurs at 17:31 hours.

Annular Solar Eclipse on December 25/26. It will not be visible in Aruba but in parts of southern Asia (including India), Indonesia and the western Pacific Ocean. The eclipse starts at 22:30 on the 25th, reaches greatest eclipse at 01:55 hours on the 26th and ends at 04:05 hours.

For more details on eclipses in 2018, please visit the Fred Espenak Eclipse web site at: <http://www.eclipsewise.com/eclipse.html#preview>

Note: When the Moon rises after 12:00 (Noon) and before 00:00 (Midnight), it will most of the time set on the next day as this table shows!