

TIMES OF MOONRISE AND MOONSET FOR ARUBA AT SEALEVEL IN 2010

| 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 | 19:37 | 07:44 | 21:18 | 08:52 | 19:57 | 07:25 | 21:31 | 08:22 | 22:06 | 08:49 | 23:03 | 10:10 | 22:52 | 10:24 | 23:19 | 11:22 | | 12:46 | 00:15 | 13:25 | 02:00 | 14:34 | 02:41 | 14:46 | 1 |
| 2 | 20:40 | 08:40 | 22:14 | 09:37 | 20:54 | 08:11 | 22:29 | 09:14 | 22:57 | 09:44 | 23:41 | 10:58 | 23:27 | 11:09 | | 12:11 | 00:28 | 13:43 | 01:15 | 14:17 | 02:56 | 15:19 | 03:38 | 15:34 | 2 |
| 3 | 21:40 | 09:30 | 23:10 | 10:21 | 21:52 | 08:57 | 23:25 | 10:07 | 23:44 | 10:37 | | 11:44 | | 11:54 | 00:02 | 13:04 | 01:25 | 14:40 | 02:14 | 15:07 | 03:53 | 16:06 | 04:37 | 16:26 | 3 |
| 4 | 22:36 | 10:17 | | 11:07 | 22:49 | 09:45 | | 11:02 | | 11:29 | 00:18 | 12:29 | 00:04 | 12:40 | 00:49 | 13:59 | 02:26 | 15:35 | 03:13 | 15:55 | 04:51 | 16:54 | 05:37 | 17:21 | 4 |
| 5 | 23:31 | 11:01 | 00:05 | 11:53 | 23:46 | 10:34 | 00:17 | 11:55 | 00:27 | 12:18 | 00:54 | 13:14 | 00:42 | 13:29 | 01:42 | 14:57 | 03:28 | 16:28 | 04:12 | 16:42 | 05:51 | 17:45 | 06:36 | 18:18 | 5 |
| 6 | | 11:44 | 01:00 | 12:42 | | 11:25 | 01:06 | 12:47 | 01:07 | 13:05 | 01:30 | 14:00 | 01:23 | 14:20 | 02:40 | 15:56 | 04:30 | 17:19 | 05:10 | 17:29 | 06:52 | 18:39 | 07:34 | 19:15 | 6 |
| 7 | 00:24 | 12:26 | 01:55 | 13:32 | 00:42 | 12:18 | 01:51 | 13:37 | 01:44 | 13:51 | 02:07 | 14:48 | 02:09 | 15:16 | 03:41 | 16:55 | 05:30 | 18:07 | 06:09 | 18:17 | 07:53 | 19:36 | 08:28 | 20:11 | 7 |
| 8 | 01:18 | 13:10 | 02:49 | 14:24 | 01:35 | 13:11 | 02:32 | 14:25 | 02:21 | 14:36 | 02:47 | 15:39 | 03:00 | 16:14 | 04:45 | 17:51 | 06:30 | 18:55 | 07:09 | 19:08 | 08:53 | 20:33 | 09:18 | 21:05 | 8 |
| 9 | 02:12 | 13:57 | 03:40 | 15:16 | 02:25 | 14:03 | 03:10 | 15:11 | 02:57 | 15:21 | 03:32 | 16:33 | 03:57 | 17:14 | 05:48 | 18:43 | 07:30 | 19:42 | 08:10 | 20:00 | 09:49 | 21:30 | 10:03 | 21:56 | 9 |
| 10 | 03:06 | 14:45 | 04:29 | 16:08 | 03:11 | 14:53 | 03:47 | 15:56 | 03:34 | 16:09 | 04:21 | 17:31 | 04:58 | 18:14 | 06:50 | 19:33 | 08:29 | 20:31 | 09:11 | 20:55 | 10:40 | 22:24 | 10:44 | 22:44 | 10 |
| 11 | 04:00 | 15:36 | 05:14 | 16:58 | 03:54 | 15:42 | 04:23 | 16:42 | 04:13 | 16:58 | 05:15 | 18:31 | 06:02 | 19:12 | 07:50 | 20:20 | 09:28 | 21:21 | 10:11 | 21:51 | 11:27 | 23:16 | 11:23 | 23:30 | 11 |
| 12 | 04:53 | 16:28 | 05:56 | 17:46 | 04:34 | 16:30 | 05:00 | 17:28 | 04:55 | 17:51 | 06:14 | 19:32 | 07:05 | 20:06 | 08:49 | 21:07 | 10:28 | 22:14 | 11:08 | 22:47 | 12:10 | | 11:59 | | 12 |
| 13 | 05:44 | 17:20 | 06:35 | 18:33 | 05:12 | 17:16 | 05:37 | 18:16 | 05:41 | 18:47 | 07:16 | 20:30 | 08:08 | 20:56 | 09:47 | 21:53 | 11:27 | 23:08 | 12:01 | 23:42 | 12:49 | 00:05 | 12:35 | 00:15 | 13 |
| 14 | 06:31 | 18:11 | 07:12 | 19:18 | 05:49 | 18:01 | 06:17 | 19:07 | 06:32 | 19:45 | 08:19 | 21:25 | 09:07 | 21:43 | 10:44 | 22:41 | 12:24 | | 12:49 | | 13:26 | 00:52 | 13:11 | 01:00 | 14 |
| 15 | 07:16 | 19:01 | 07:48 | 20:03 | 06:24 | 18:47 | 07:00 | 20:00 | 07:28 | 20:45 | 09:21 | 22:16 | 10:05 | 22:28 | 11:42 | 23:30 | 13:18 | 00:02 | 13:33 | 00:34 | 14:02 | 01:37 | 13:49 | 01:46 | 15 |
| 16 | 07:57 | 19:49 | 08:24 | 20:49 | 07:01 | 19:33 | 07:48 | 20:56 | 08:27 | 21:44 | 10:20 | 23:03 | 11:01 | 23:13 | 12:39 | | 14:08 | 00:57 | 14:14 | 01:24 | 14:38 | 02:22 | 14:29 | 02:33 | 16 |
| 17 | 08:35 | 20:35 | 09:00 | 21:35 | 07:39 | 20:21 | 08:40 | 21:54 | 09:29 | 22:39 | 11:17 | 23:47 | 11:56 | 23:58 | 13:36 | 00:21 | 14:54 | 01:49 | 14:52 | 02:11 | 15:15 | 03:07 | 15:13 | 03:23 | 17 |
| 18 | 09:11 | 21:20 | 09:38 | 22:24 | 08:19 | 21:12 | 09:36 | 22:53 | 10:30 | 23:31 | 12:12 | | 12:52 | | 14:31 | 01:14 | 15:36 | 02:40 | 15:28 | 02:57 | 15:54 | 03:54 | 16:02 | 04:16 | 18 |
| 19 | 09:47 | 22:05 | 10:19 | 23:15 | 09:03 | 22:06 | 10:35 | 23:49 | 11:29 | | 13:06 | 00:31 | 13:48 | 00:45 | 15:22 | 02:08 | 16:15 | 03:28 | 16:04 | 03:42 | 16:36 | 04:43 | 16:55 | 05:11 | 19 |
| 20 | 10:22 | 22:51 | 11:04 | | 09:51 | 23:02 | 11:35 | | 12:26 | 00:19 | 14:01 | 01:14 | 14:45 | 01:34 | 16:11 | 03:01 | 16:53 | 04:15 | 16:40 | 04:27 | 17:22 | 05:34 | 17:52 | 06:09 | 20 |
| 21 | 10:59 | 23:38 | 11:53 | 00:10 | 10:43 | 23:59 | 12:35 | 00:43 | 13:21 | 01:04 | 14:56 | 01:59 | 15:40 | 02:25 | 16:55 | 03:53 | 17:29 | 05:01 | 17:18 | 05:13 | 18:13 | 06:28 | 18:52 | 07:06 | 21 |
| 22 | 11:38 | | 12:48 | 01:07 | 11:40 | | 13:33 | 01:33 | 14:16 | 01:48 | 15:53 | 02:46 | 16:34 | 03:18 | 17:37 | 04:43 | 18:05 | 05:46 | 17:58 | 06:00 | 19:07 | 07:24 | 19:52 | 08:02 | 22 |
| 23 | 12:21 | 00:28 | 13:48 | 02:07 | 12:40 | 00:57 | 14:30 | 02:21 | 15:10 | 02:31 | 16:49 | 03:36 | 17:25 | 04:12 | 18:15 | 05:31 | 18:41 | 06:31 | 18:41 | 06:50 | 20:04 | 08:21 | 20:52 | 08:54 | 23 |
| 24 | 13:09 | 01:22 | 14:51 | 03:06 | 13:41 | 01:54 | 15:26 | 03:06 | 16:06 | 03:16 | 17:45 | 04:29 | 18:13 | 05:05 | 18:52 | 06:18 | 19:19 | 07:17 | 19:28 | 07:42 | 21:03 | 09:16 | 21:50 | 09:44 | 24 |
| 25 | 14:02 | 02:19 | 15:55 | 04:04 | 14:42 | 02:48 | 16:22 | 03:51 | 17:02 | 04:02 | 18:39 | 05:23 | 18:57 | 05:57 | 19:28 | 07:03 | 19:59 | 08:04 | 20:19 | 08:36 | 22:02 | 10:10 | 22:46 | 10:31 | 25 |
| 26 | 15:02 | 03:20 | 16:58 | 04:59 | 15:42 | 03:38 | 17:19 | 04:35 | 18:00 | 04:51 | 19:30 | 06:18 | 19:37 | 06:47 | 20:03 | 07:48 | 20:43 | 08:54 | 21:13 | 09:32 | 22:59 | 11:00 | 23:41 | 11:15 | 26 |
| 27 | 16:06 | 04:22 | 17:59 | 05:50 | 16:41 | 04:26 | 18:16 | 05:21 | 18:58 | 05:43 | 20:16 | 07:11 | 20:15 | 07:34 | 20:40 | 08:33 | 21:31 | 09:46 | 22:10 | 10:27 | 23:55 | 11:47 | | 12:00 | 27 |
| 28 | 17:12 | 05:23 | 18:59 | 06:38 | 17:38 | 05:13 | 19:14 | 06:10 | 19:54 | 06:37 | 20:59 | 08:02 | 20:51 | 08:20 | 21:18 | 09:19 | 22:22 | 10:40 | 23:08 | 11:21 | | 12:32 | 00:36 | 12:44 | 28 |
| 29 | 18:17 | 06:21 | | | 18:36 | 05:58 | 20:13 | 07:01 | 20:47 | 07:32 | 21:39 | 08:51 | 21:27 | 09:05 | 21:59 | 10:07 | 23:17 | 11:36 | | 12:13 | 00:50 | 13:16 | 01:32 | 13:31 | 29 |
| 30 | 19:20 | 07:15 | | | 19:34 | 06:45 | 21:11 | 07:54 | 21:37 | 08:27 | 22:16 | 09:38 | 22:03 | 09:50 | 22:44 | 10:57 | | 12:31 | 00:06 | 13:02 | 01:45 | 14:00 | 02:29 | 14:20 | 30 |
| 31 | 20:21 | 08:05 | | | 20:32 | 07:32 | | | 22:22 | 09:19 | | | 22:40 | 10:35 | 23:34 | 11:51 | | | 01:04 | 13:49 | | | 03:27 | 15:12 | 31 |

New Moon

First Quarter

Full Moon

Last Quarter

Sources: Moonrise 3.5 & Fred Espenak (NASA)

Eclipses:

Local Times

Annular Solar Eclipse on January 15. Not visible in Aruba but in sections of Africa, the northern Indian Ocean and Asia. Event starts at 00:05 hours and ends at 06:07 hours with greatest eclips occurring at 03:07 hours.

Partial Lunar Eclipse on June 26, penumbral part of it barely visible in Aruba . Penumbral phase starts at 04:57 hours and partial phase starts just before moonset at 06:16 hours .

Greatest eclipse will be reached at 07:39 hours while Moon is already well below horizon. Event ends at 10:19 hours.

Total Solar Eclipse on July 11, not visible in Aruba. It will be visible in parts of the southern Pacific Ocean and southern South America. Event starts at 13:09 hours and ends at 17:57 hours with greatest eclipse occurring at 15:33 hours.

Total Lunar Eclipse on December 21 and visible in Aruba. Partial phase starts at 02:32 hours and totality at 03:40 hours. Greatest elcipse occurs at 04:16 hours while totality ends at 04:53 hours.

Partial phase ends at 06:01 hours.

For more details on eclipses in 2010, visit the NASA Eclipse Page at: <http://eclipse.gsfc.nasa.gov/OH/OH2010.html>

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!