

## Avalon, Santa Catalina Island, CA - Jul 1863

| Date |     | High  |     |       |     | Low   |      |          |     |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|----------|-----|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM       | ft  | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Wed | 9:45  | 4.1 | 8:47  | 7.0 | 3:17  | -1.6 | 2:28     | 1.8 | 4:53                                                                                | 7:13 |    |
| 2    | Thu | 10:30 | 4.3 | 9:34  | 6.6 | 4:00  | -1.5 | 3:21     | 1.8 | 4:54                                                                                | 7:13 |    |
| 3    | Fri | 11:17 | 4.4 | 10:24 | 6.1 | 4:42  | -1.3 | 4:18     | 1.9 | 4:54                                                                                | 7:13 |    |
| 4    | Sat |       |     | 12:05 | 4.6 | 5:24  | -0.8 | 5:20     | 1.9 | 4:55                                                                                | 7:13 |    |
| 5    | Sun |       |     | 12:56 | 4.7 | 6:07  | -0.2 | 6:35     | 2.0 | 4:55                                                                                | 7:13 |    |
| 6    | Mon | 12:17 | 4.5 | 1:49  | 4.9 | 6:51  | 0.4  | 8:08     | 1.9 | 4:56                                                                                | 7:13 |    |
| 7    | Tue | 1:32  | 3.7 | 2:45  | 5.1 | 7:38  | 1.0  | 9:48     | 1.6 | 4:56                                                                                | 7:13 |    |
| 8    | Wed | 3:07  | 3.1 | 3:42  | 5.3 | 8:32  | 1.6  | 11:09    | 1.1 | 4:57                                                                                | 7:12 |    |
| 9    | Thu | 4:54  | 2.9 | 4:36  | 5.5 | 9:34  | 2.0  |          |     | 4:57                                                                                | 7:12 |    |
| 10   | Fri | 6:21  | 3.1 | 5:26  | 5.7 | 12:09 | 0.6  | 10:36 AM | 2.2 | 4:58                                                                                | 7:12 |    |
| 11   | Sat | 7:20  | 3.3 | 6:10  | 5.9 | 12:57 | 0.1  | 11:32 AM | 2.3 | 4:58                                                                                | 7:12 |    |
| 12   | Sun | 8:02  | 3.5 | 6:49  | 6.0 | 1:37  | -0.2 | 12:20    | 2.3 | 4:59                                                                                | 7:11 |   |
| 13   | Mon | 8:36  | 3.6 | 7:25  | 6.1 | 2:12  | -0.4 | 1:01     | 2.3 | 5:00                                                                                | 7:11 |  |
| 14   | Tue | 9:07  | 3.8 | 7:58  | 6.1 | 2:44  | -0.5 | 1:39     | 2.3 | 5:00                                                                                | 7:11 |  |
| 15   | Wed | 9:37  | 3.9 | 8:29  | 6.0 | 3:13  | -0.5 | 2:14     | 2.2 | 5:01                                                                                | 7:10 |  |
| 16   | Thu | 10:06 | 3.9 | 8:59  | 5.8 | 3:40  | -0.4 | 2:49     | 2.2 | 5:01                                                                                | 7:10 |  |
| 17   | Fri | 10:36 | 4.0 | 9:29  | 5.6 | 4:06  | -0.3 | 3:25     | 2.2 | 5:02                                                                                | 7:09 |  |
| 18   | Sat | 11:05 | 4.1 | 9:59  | 5.2 | 4:30  | -0.1 | 4:02     | 2.3 | 5:03                                                                                | 7:09 |  |
| 19   | Sun | 11:35 | 4.2 | 10:32 | 4.8 | 4:55  | 0.2  | 4:43     | 2.3 | 5:03                                                                                | 7:08 |  |
| 20   | Mon |       |     | 12:06 | 4.3 | 5:20  | 0.5  | 5:32     | 2.3 | 5:04                                                                                | 7:08 |  |
| 21   | Tue |       |     | 12:41 | 4.5 | 5:48  | 0.9  | 6:36     | 2.3 | 5:05                                                                                | 7:07 |  |
| 22   | Wed | 12:01 | 3.7 | 1:24  | 4.7 | 6:19  | 1.3  | 8:02     | 2.1 | 5:05                                                                                | 7:07 |  |
| 23   | Thu | 1:17  | 3.2 | 2:17  | 4.9 | 6:59  | 1.7  | 9:44     | 1.6 | 5:06                                                                                | 7:06 |  |
| 24   | Fri | 3:15  | 2.8 | 3:18  | 5.3 | 7:56  | 2.0  | 11:03    | 1.0 | 5:07                                                                                | 7:06 |  |
| 25   | Sat | 5:11  | 2.9 | 4:21  | 5.7 | 9:14  | 2.3  |          |     | 5:07                                                                                | 7:05 |  |
| 26   | Sun | 6:25  | 3.2 | 5:20  | 6.2 | 12:01 | 0.3  | 10:31 AM | 2.3 | 5:08                                                                                | 7:04 |  |
| 27   | Mon | 7:16  | 3.6 | 6:14  | 6.6 | 12:49 | -0.4 | 11:39 AM | 2.2 | 5:09                                                                                | 7:04 |  |
| 28   | Tue | 7:58  | 4.0 | 7:04  | 6.9 | 1:34  | -0.9 | 12:38    | 2.0 | 5:09                                                                                | 7:03 |  |
| 29   | Wed | 8:38  | 4.3 | 7:53  | 7.1 | 2:16  | -1.2 | 1:33     | 1.7 | 5:10                                                                                | 7:02 |  |
| 30   | Thu | 9:17  | 4.6 | 8:40  | 6.9 | 2:56  | -1.3 | 2:26     | 1.5 | 5:11                                                                                | 7:01 |  |

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|------|-----|------|-----|------|-----|------|------|------|-----|------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|
|      |     | AM   | ft  | PM   | ft  | AM   | ft   | PM   | ft  | Rise                                                                               | Set  | Moon                                                                                |
| 31   | Fri | 9:57 | 4.9 | 9:27 | 6.5 | 3:35 | -1.1 | 3:18 | 1.3 | 5:11                                                                               | 7:01 |  |