

- Islander's Almanac -
Charlottetown
2026

Sources

Environment Canada

Weather normals are calculated using daily weather data from Environment Canada for station 8300300 (Charlottetown A), from 1962 to 2011.

Canadian Hydrographic Services

Daily tide predictions were downloaded from the Canadian Hydrographic Services website, for station 01700 (Charlottetown).

Jean Meeus

Astronomical calculations are greatly aided by the book *Astronomical Algorithms*, by Jean Meeus, published by Willmann-Bell, Inc. in 1991.

P. Bretagnon and G. Francou

Positions of the Sun and planets are calculated using VSOP87, created by P. Bretagnon and G. Francou.

National Aeronautics and Space Administration

Solar eclipse calculations use Besselian Elements downloaded from the NASA website. The photo of the Moon is from NASA's Lunar Reconnaissance Orbiter.

U.S. Naval Observatory

Daily astronomical phenomena are generated using the *Multiyear Interactive Computer Almanac 1800-2050* (version 2.2.2), published by Willmann-Bell, Inc.

Space Weather Canada

Solar radio flux data were downloaded from the Space Weather Canada website.

Dave Herald

Dave Herald's Occult4 software was used to generate occultation predictions for the year.

GEO.ca

Geo.ca is the source of shape files for P.E.I. mapping data.

Timekeeping on P.E.I.

Charlottetown Time

Historically, the official time of Prince Edward Island was taken as the Local Mean Time corresponding to the meridian passing through the Law Courts building in Charlottetown, about 63°W .

Atlantic Standard Time (AST)

On Thursday May 9, 1889, the P.E.I. Legislature moved the official time ahead by 12 minutes and 29 seconds in order to adopt Atlantic Standard Time. The legislation actually called it the *Intercolonial Standard Time for 60°W longitude*, named after the Intercolonial Railway. The longitude of 60°W passes through Glace Bay in Cape Breton, Nova Scotia.

Atlantic Daylight Time (ADT)

Daylight saving time (ADT) was first enacted sporadically in P.E.I. during the two World Wars. Currently, daylight saving time has been in place every year since 1963. The longitude corresponding to ADT is a further 15° towards the east. That meridian is 45°W , and it passes *straight down the middle of Greenland*.

Ambiguity With ADT

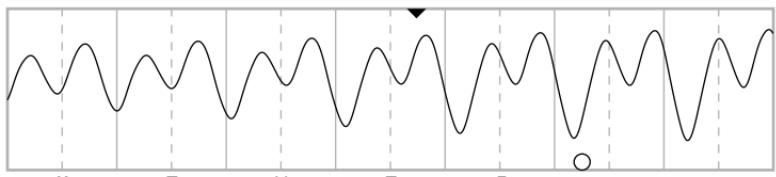
This almanac uses both Atlantic Standard Time and Atlantic Daylight Time, where appropriate. When clocks *fall back* in the autumn, there's an inherent ambiguity in the civil time, because an hour gets repeated.

Legislation For Civil Timekeeping On P.E.I.

Information on the history of legislation for civil timekeeping on P.E.I. can be found here:

<https://github.com/johanley/pei-daylight-saving-time>

December



E 10 20 30 40 50 60 70

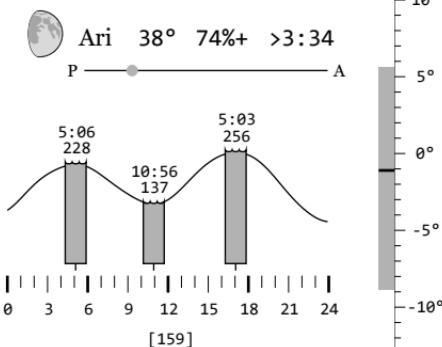
Sagittarius

4 5 6 7 8 ☺ 12:15:42 20.7° 16 17 18 19 20

Monday Dec 29

[-1.1° -9.5°]

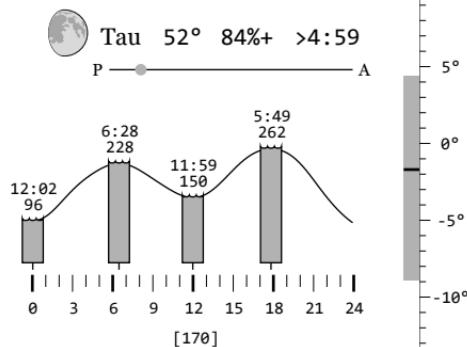
[07:54 16:34 08h40m]



Tuesday Dec 30

[-1.7° -9.7°]

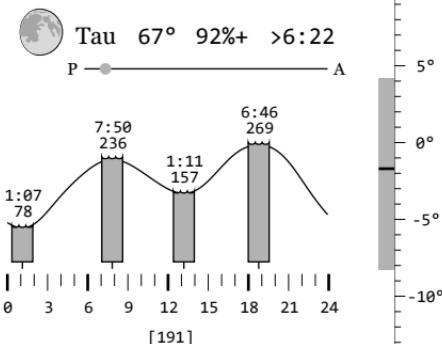
[07:54 16:35 08h40m]



Wednesday Dec 31

[-1.7° -10.0°]

[07:54 16:36 08h41m]

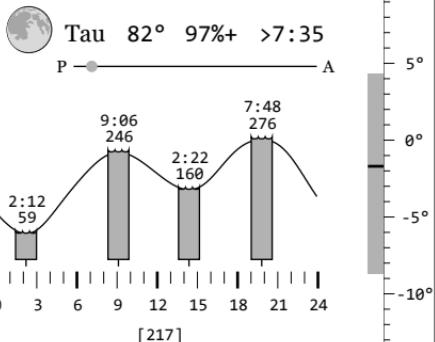


Thursday Jan 1

[-1.7° -10.0°]
[07:54 16:37 08h42m]

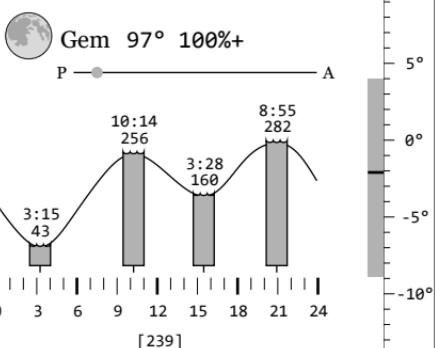
New Year's Day

04h Aldebaran 10.63°S of Moon
18h Moon at perigee 360372 km



Friday Jan 2

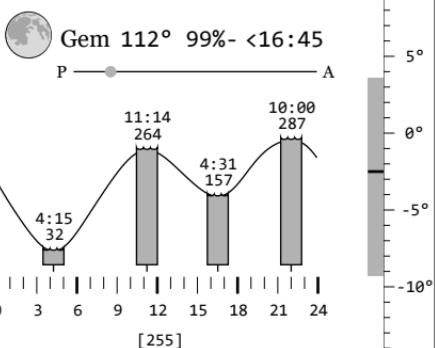
[-2.1° -10.4°]
[07:54 16:38 08h43m]



Saturday Jan 3

[-2.5° -10.8°]
[07:54 16:39 08h44m]

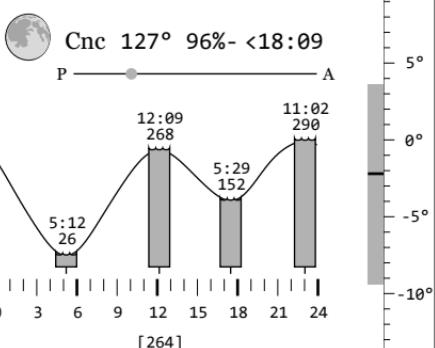
Quadrantid Meteors Peak
06h Full Moon 362312 km
13h Earth at perihelion 0.983 AU
18h Jupiter 3.70°S of Moon



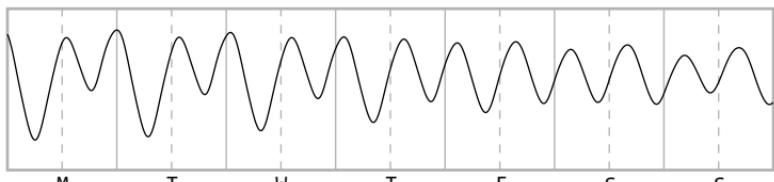
Sunday Jan 4

[-2.2° -10.8°]
[07:54 16:40 08h45m]

00h Pollux 3.06°N of Moon
05:12 Lowest tide this month
23:02 Highest tide this month



January



0 E 10 20 30 40 50 60 70

Sagittarius

4 5 6 7 8 ☽ 12:18:52 21.5° 16 17 18 19 20

Monday Jan 5

[-2.2° -10.9°]

[07:54 16:41 08h46m]



Leo 141° 91% - <19:31

P

12:57

270

6:24

145

6:03
27

0
3
6
9
12
15
18
21
24

[261]

-10°
-5°
0°
5°
10°

Tuesday Jan 6

[-2.5° -11.1°]

[07:54 16:42 08h48m]

13h Regulus 0.48°S of Moon
13h Venus in SC 0.71° S



Leo 155° 84% - <20:48

P

1:41

271

7:17

135

12:00
289

6:51
35

0
3
6
9
12
15
18
21
24

[253]

-10°
-5°
0°
5°
10°

Wednesday Jan 7

[-2.4° -11.1°]

[07:54 16:43 08h49m]



Leo 168° 75% - <22:01

P

2:21

271

8:06

126

12:55
283

7:35
49

0
3
6
9
12
15
18
21
24

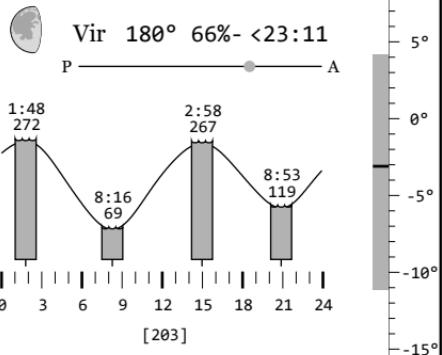
[233]

-10°
-5°
0°
5°
10°

Thursday Jan 8

[-3.1° -11.7°]
[07:53 16:44 08h51m]

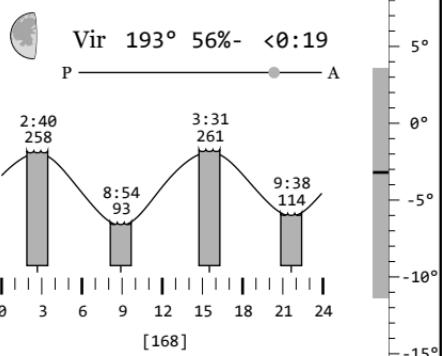
ooh Mars 0.17°S of Venus



Friday Jan 9

[-3.2° -12.2°]
[07:53 16:46 08h52m]

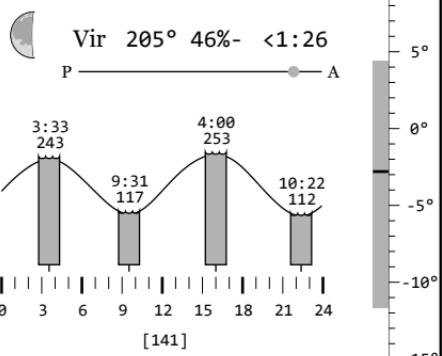
08h Mars 0.94°S of Sun



Saturday Jan 10

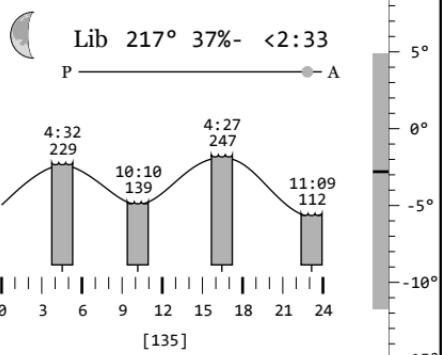
[-2.8° -12.2°]
[07:53 16:47 08h54m]

05h Jupiter at opposition
12h Last Quarter 399241 km
21h Spica 1.66°N of Moon

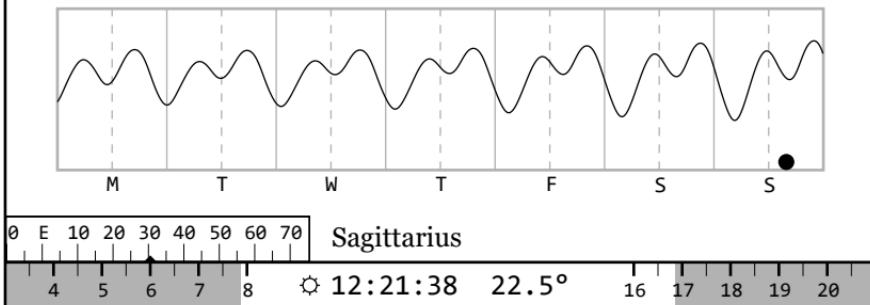


Sunday Jan 11

[-2.8° -12.6°]
[07:52 16:48 08h55m]

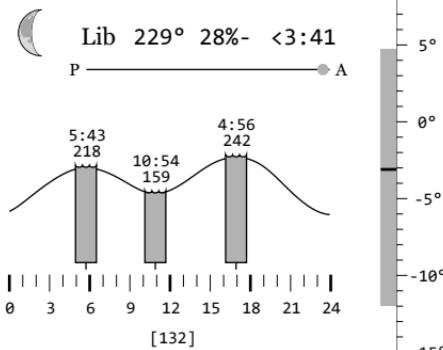


January



Monday Jan 12

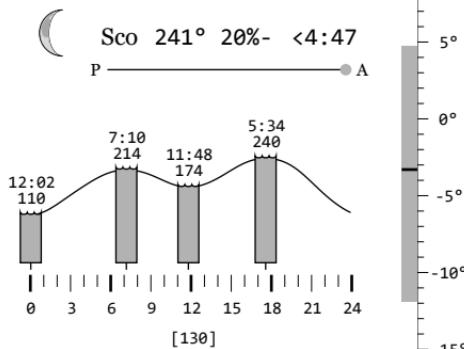
$[-3.1^\circ \text{ } -13.0^\circ]$
 $[07:52 \text{ } 16:49 \text{ } 08\text{h}57\text{m}]$



Tuesday Jan 13

$[-3.3^\circ \text{ } -13.3^\circ]$
 $[07:51 \text{ } 16:51 \text{ } 08\text{h}59\text{m}]$

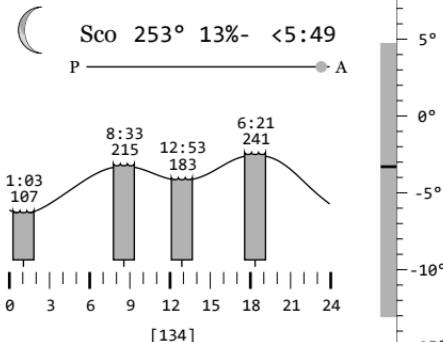
17h Moon at apogee 405422 km



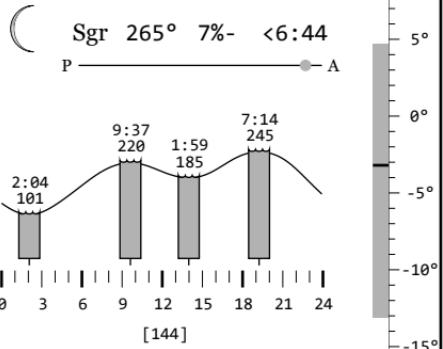
Wednesday Jan 14

$[-3.3^\circ \text{ } -13.5^\circ]$
 $[07:51 \text{ } 16:52 \text{ } 09\text{h}00\text{m}]$

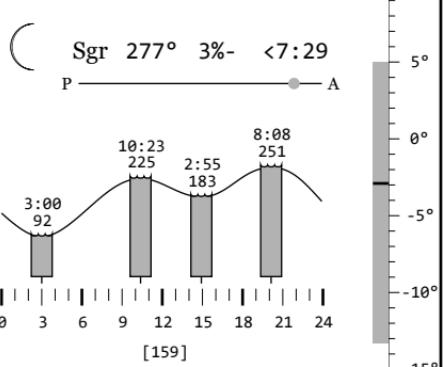
16h Antares 0.56°N of Moon



Thursday Jan 15
[-3.2° -13.4°]
[07:50 16:53 09h02m]

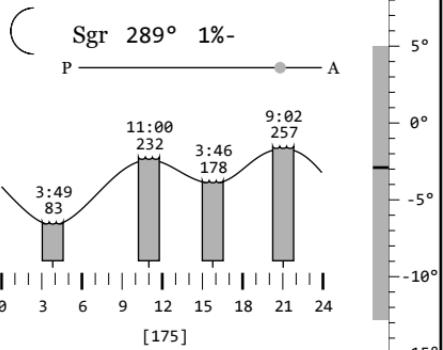


Friday Jan 16
[-2.9° -13.3°]
[07:50 16:54 09h04m]



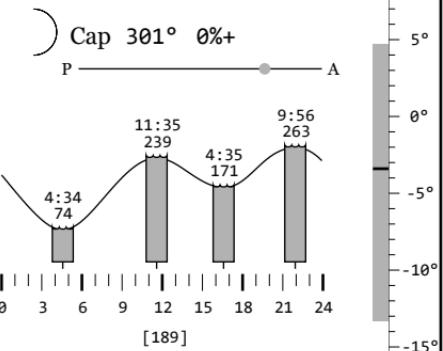
Saturday Jan 17
[-2.9° -13.3°]
[07:49 16:56 09h06m]

23h Mars 0.97°N of Mercury

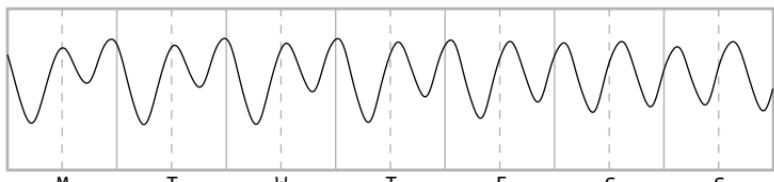


Sunday Jan 18
[-3.4° -13.9°]
[07:48 16:57 09h08m]

10h Mars 2.62°N of Moon
11h Mercury 1.60°N of Moon
16h New Moon 395417 km
21h Venus 2.14°N of Moon



January



10 E 10 20 30 40 50 60 70

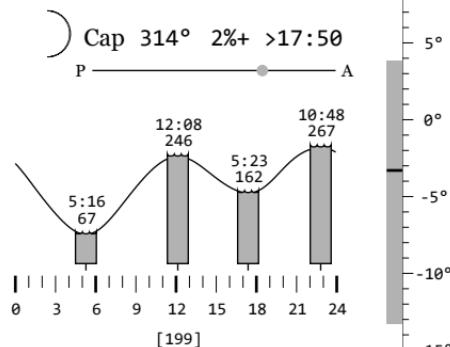
Capricorn

4 5 6 7 8 ☽ 12:23:52 24.0° 16 17 18 19 20

Monday Jan 19

[-3.3° -13.9°]

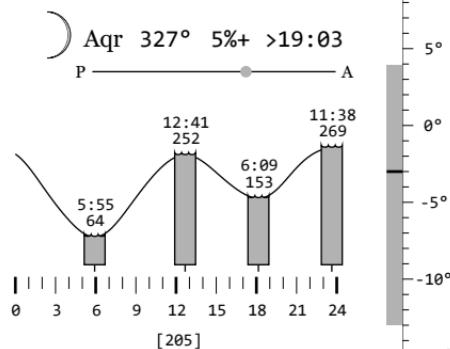
[07:48 16:58 09h10m]



Tuesday Jan 20

[-3.0° -13.8°]

[07:47 17:00 09h13m]

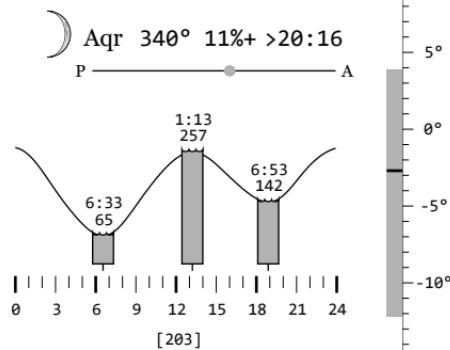


Wednesday Jan 21

[-2.7° -13.3°]

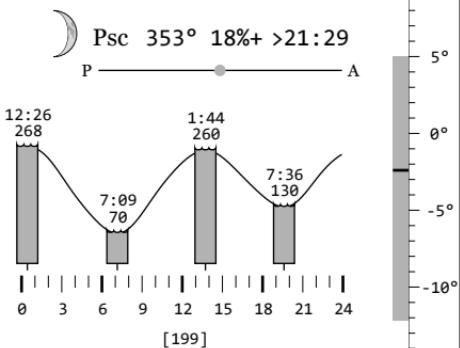
[07:46 17:01 09h15m]

12h Mercury in SC 2.05° S



Thursday Jan 22

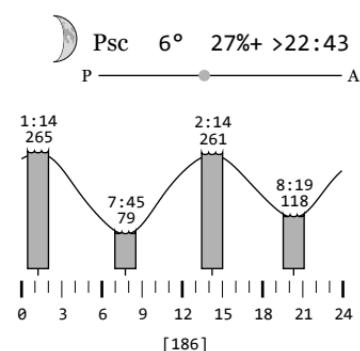
[-2.4° -12.8°]
[07:45 17:03 09h17m]



Friday Jan 23

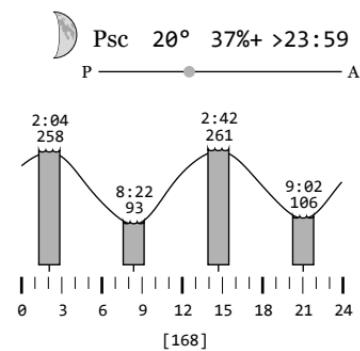
[-2.4° -13.0°]
[07:44 17:04 09h20m]

09h Saturn 4.35°S of Moon



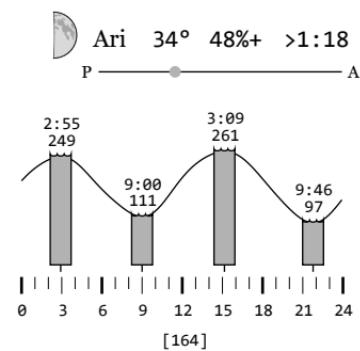
Saturday Jan 24

[-2.6° -13.3°]
[07:43 17:06 09h22m]

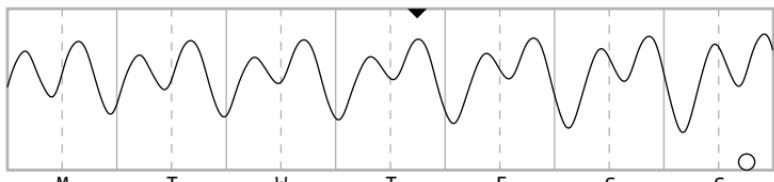


Sunday Jan 25

[-2.6° -12.8°]
[07:42 17:07 09h24m]



January



10 E 10 20 30 40 50 60

Capricorn

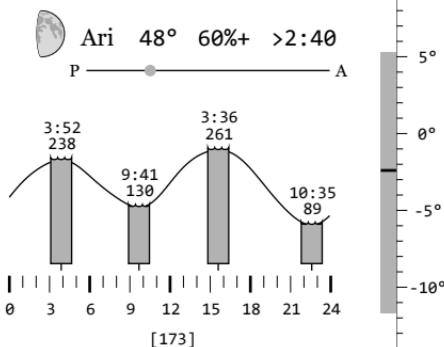
4 5 6 7 8 ☽ 12:25:28 25.7° 16 17 18 19 20

Monday Jan 26

$[-2.4^\circ \text{ } -12.4^\circ]$

[07:41 17:08 09h27m]

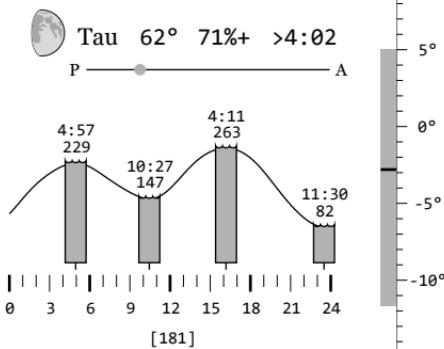
01h First Quarter 371872 km



Tuesday Jan 27

$[-2.8^\circ \text{ } -12.4^\circ]$

[07:40 17:10 09h29m]

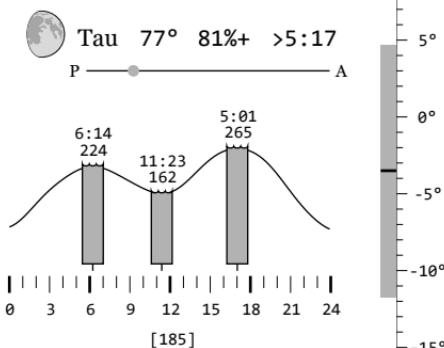


Wednesday Jan 28

$[-3.5^\circ \text{ } -12.8^\circ]$

[07:39 17:11 09h32m]

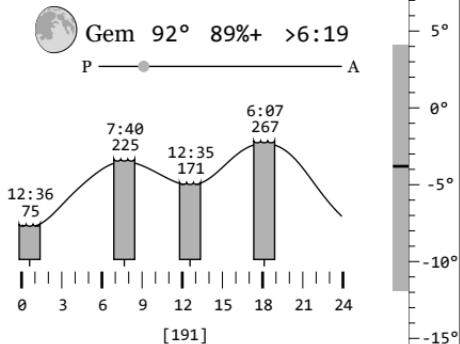
12h Aldebaran 10.77°S of Moon
20h Venus 0.74°N of Mercury



Thursday Jan 29

[-3.8° -13.2°]
[07:38 17:13 09h34m]

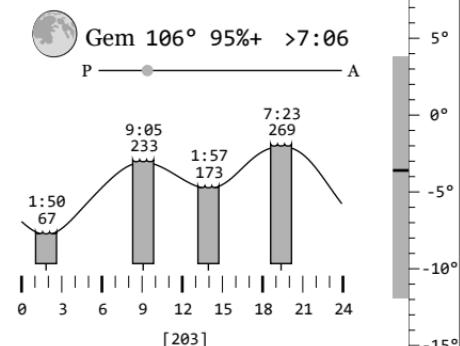
18h Moon at perigee 365886 km



Friday Jan 30

[-3.6° -12.8°]
[07:37 17:14 09h37m]

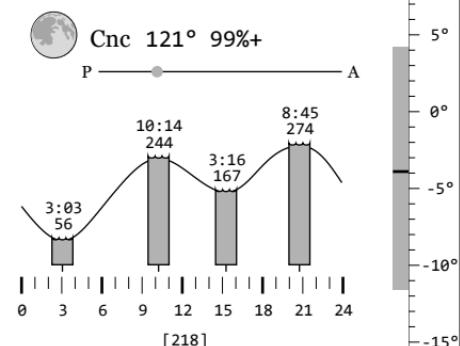
22h Jupiter 3.85°S of Moon



Saturday Jan 31

[-3.9° -12.8°]
[07:36 17:16 09h40m]

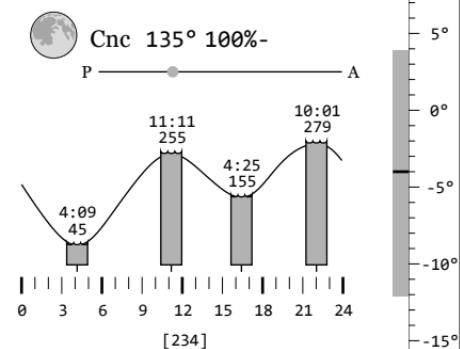
10h Pollux 3.04°N of Moon



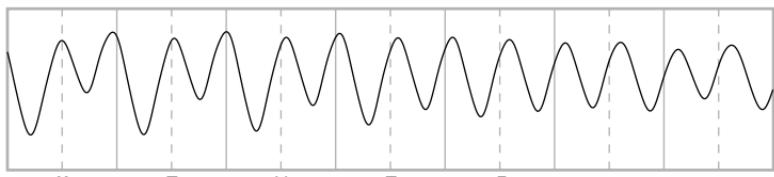
Sunday Feb 1

[-4.0° -12.8°]
[07:34 17:17 09h42m]

18h Full Moon 371387 km



February



10 E 10 20 30 40 50 60

Capricorn

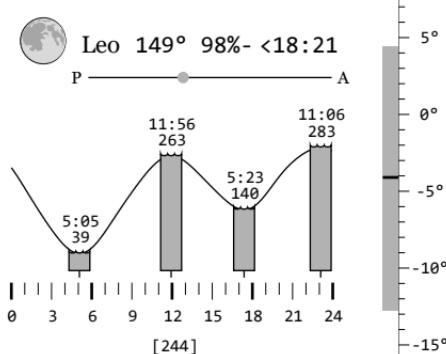
4 5 6 7 8 ☽ 12:26:25 27.7° 16 17 18 19 20

Monday Feb 2

$[-4.1^\circ \text{ } -12.8^\circ]$

[07:33 17:19 09h45m]

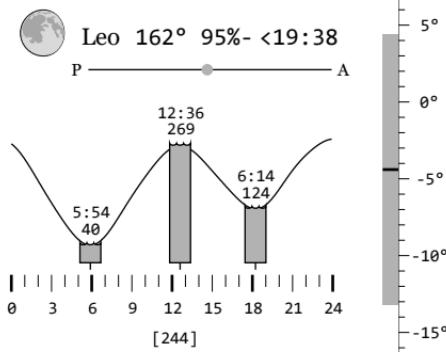
05:05 Lowest tide this month
23h Regulus 0.38°S of Moon



Tuesday Feb 3

$[-4.4^\circ \text{ } -13.2^\circ]$

[07:32 17:20 09h48m]

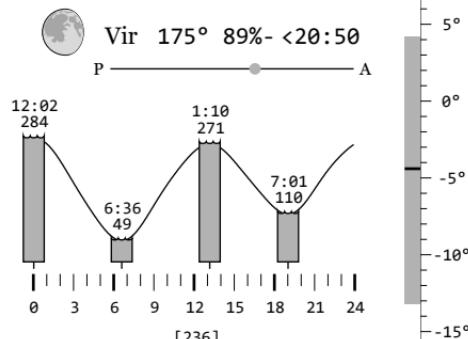


Wednesday Feb 4

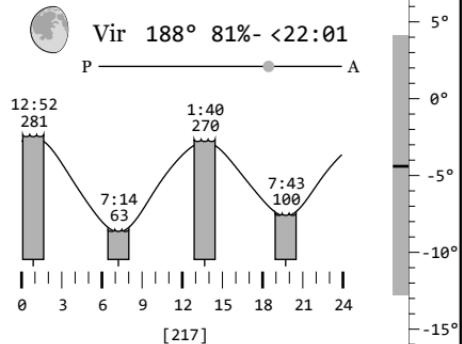
$[-4.4^\circ \text{ } -13.2^\circ]$

[07:31 17:22 09h51m]

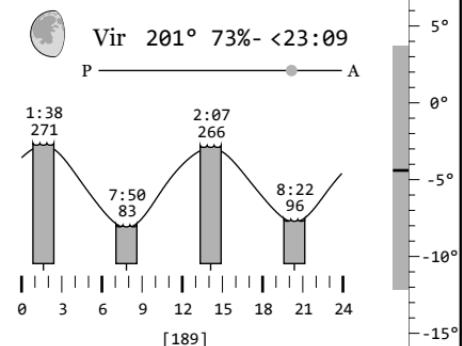
00:02 Highest tide this month



Thursday Feb 5
[-4.4° -12.8°]
[07:29 17:23 09h54m]

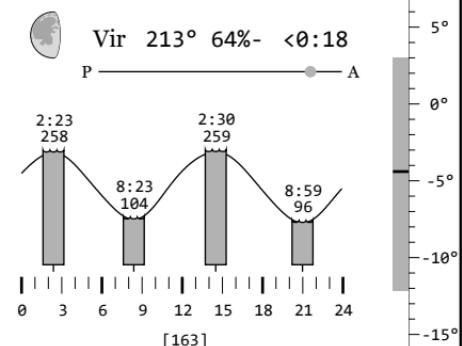


Friday Feb 6
[-4.4° -12.8°]
[07:28 17:25 09h56m]

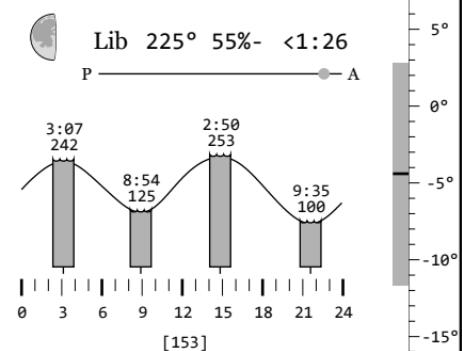


Saturday Feb 7
[-4.4° -13.2°]
[07:27 17:26 09h59m]

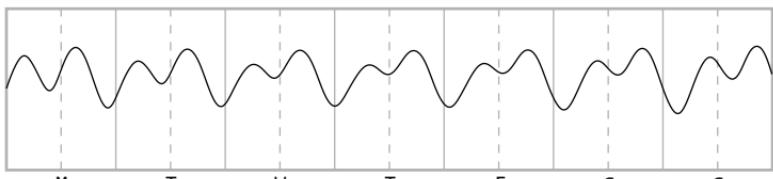
05h Spica 1.85°N of Moon



Sunday Feb 8
[-4.4° -13.2°]
[07:25 17:28 10h02m]



February



20 10 E 10 20 30 40 50 60

Capricorn

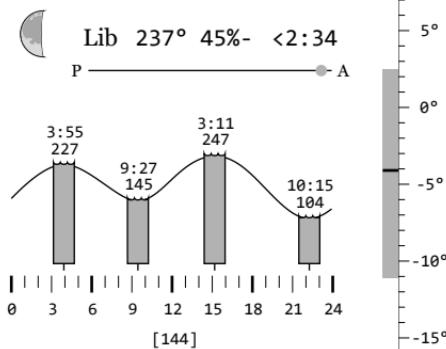
4 5 6 7 8 ☽ 12:26:42 29.9° 16 17 18 19 20

Monday Feb 9

$[-4.1^\circ \text{ } -13.3^\circ]$

[07:24 17:29 10h05m]

09h Last Quarter 403674 km

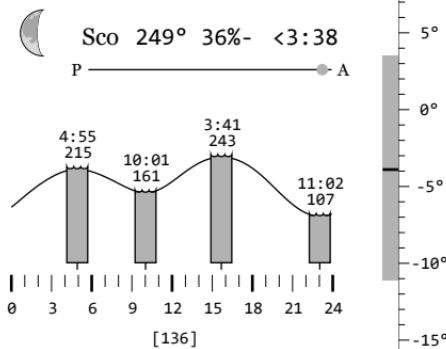


Tuesday Feb 10

$[-3.9^\circ \text{ } -13.4^\circ]$

[07:22 17:31 10h08m]

13h Moon at apogee 404558 km

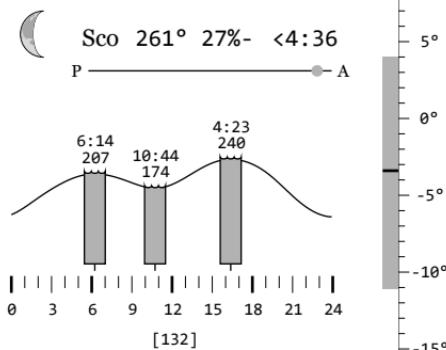


Wednesday Feb 11

$[-3.4^\circ \text{ } -13.3^\circ]$

[07:21 17:32 10h11m]

oooh Antares 0.69°N of Moon



Thursday Feb 12

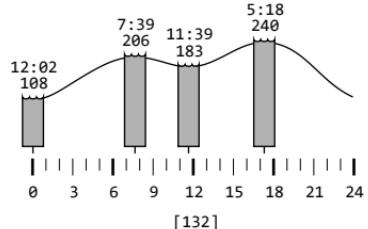
[-3.1° -13.4°]
[07:19 17:34 10h14m]



Sgr 273° 19%- <5:25

P

— A



Friday Feb 13

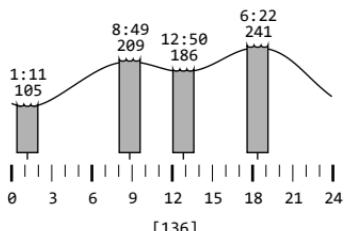
[-2.8° -13.4°]
[07:18 17:35 10h17m]



Sgr 285° 12%- <6:05

P

— A



Saturday Feb 14

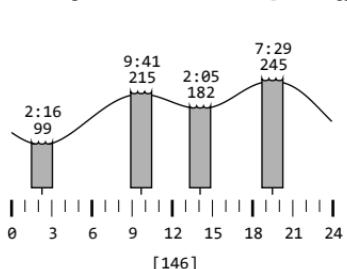
[-2.8° -13.3°]
[07:16 17:37 10h20m]



Cap 297° 6%- <6:36

P

— A



Sunday Feb 15

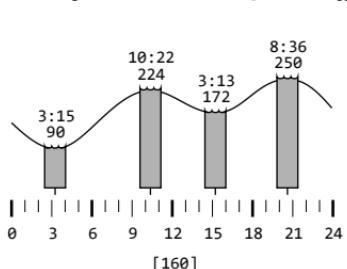
[-3.0° -13.3°]
[07:15 17:38 10h23m]



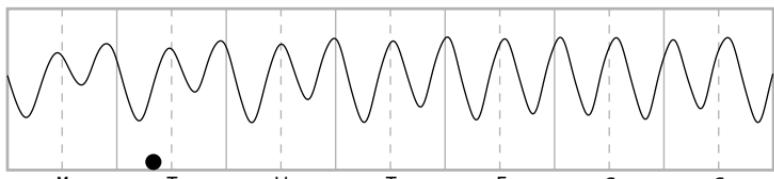
Cap 310° 2%- <7:01

P

— A



February



20 10 E 10 20 30 40 50

Aquarius

4 5 6 7 8 ☽ 12:26:23 32.3° 16 17 18 19 20

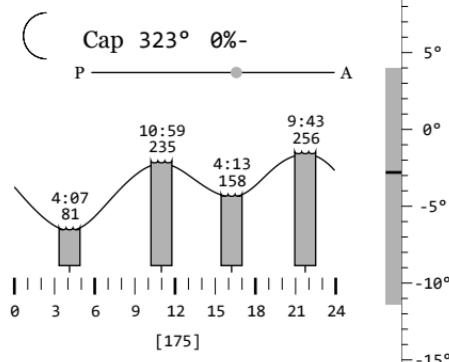
Monday Feb 16

[-2.8° -13.2°]

[07:13 17:40 10h26m]

Islander Day

14h Mars 0.77°N of Moon

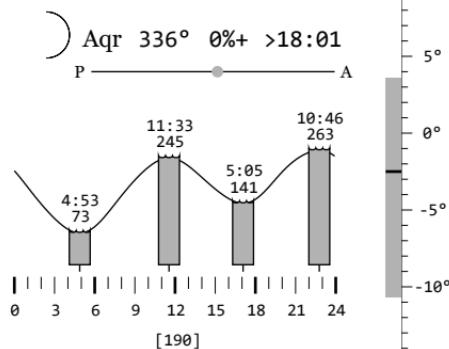


Tuesday Feb 17

[-2.5° -12.5°]

[07:11 17:41 10h29m]

08h New Moon 384492 km

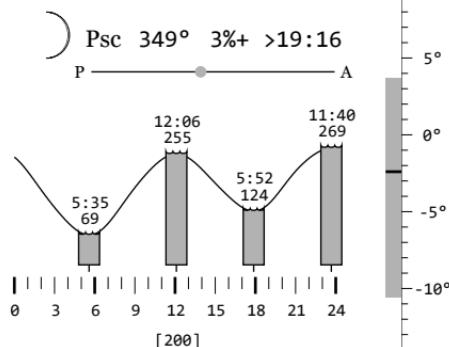


Wednesday Feb 18

[-2.4° -12.2°]

[07:10 17:43 10h33m]

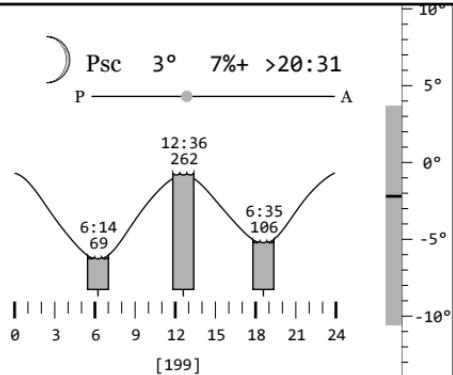
05h Venus 1.75°S of Moon
19h Mercury 0.13°N of Moon



Thursday Feb 19

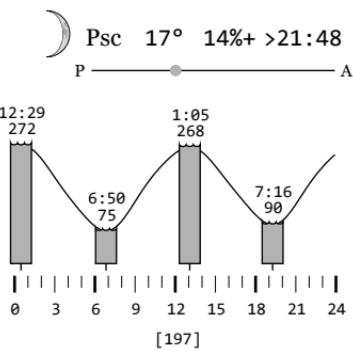
[-2.2° -12.2°]
[07:08 17:44 10h36m]

14h Mercury at GE 18.1° E
20h Saturn 4.64°S of Moon



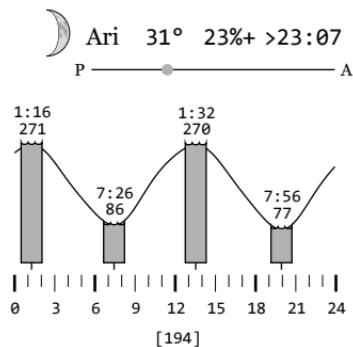
Friday Feb 20

[-2.4° -12.0°]
[07:06 17:46 10h39m]



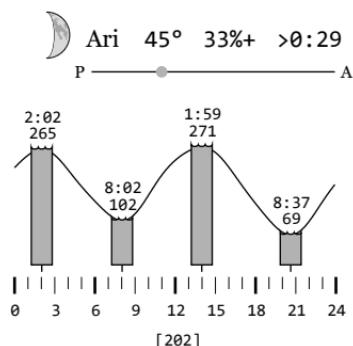
Saturday Feb 21

[-2.2° -11.3°]
[07:05 17:47 10h42m]

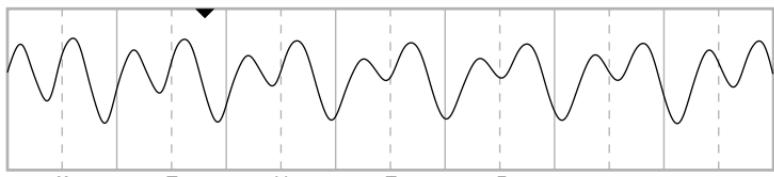


Sunday Feb 22

[-1.8° -10.9°]
[07:03 17:49 10h45m]



February



0 20 10 E 10 20 30 40 50

Aquarius

4 5 6 7 8 ☽ 12:25:30 34.8° 16 17 18 19 20

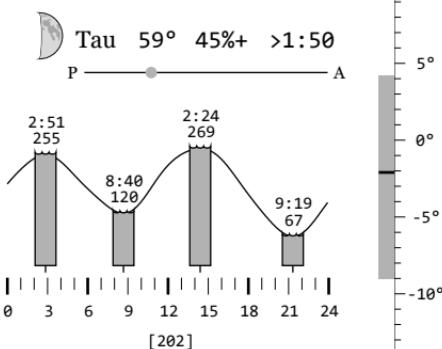
Monday Feb 23

[-2.1° -10.7°]

[07:01 17:50 10h48m]

23:26.4 Occultation DD 5.7

23:31.3 Occultation DD 4.3



Tuesday Feb 24

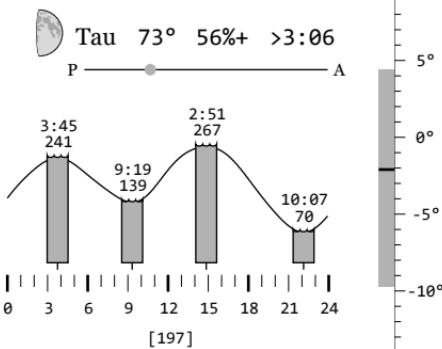
[-2.1° -10.6°]

[07:00 17:52 10h51m]

08h First Quarter 370182 km

18h Aldebaran 10.85°S of Moon

19h Moon at perigee 370142 km

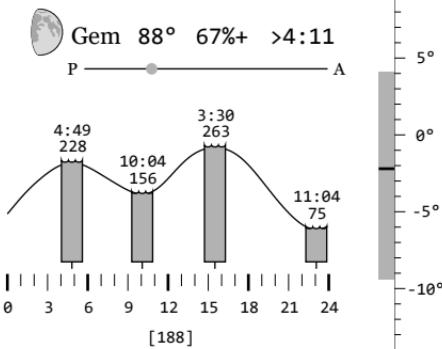


Wednesday Feb 25

[-2.2° -10.6°]

[06:58 17:53 10h55m]

22:49.8 Occultation DD 5.6



Thursday Feb 26

[-2.1° -10.7°]

[06:56 17:54 10h58m]

00:16.3 Occultation DD 4.6
19h Venus 4.70°S of Mercury

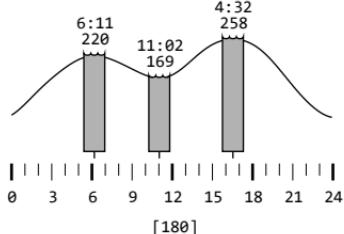


Gem 102° 77%+ >5:02

P

.

A



Friday Feb 27

[-1.7° -10.1°]

[06:54 17:56 11h01m]

02h Jupiter 3.97°S of Moon
18h Pollux 3.01°N of Moon

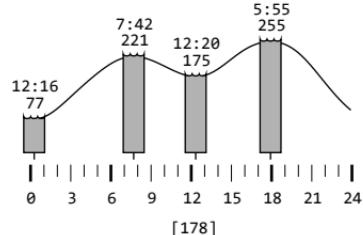


Gem 116° 86%+ >5:40

P

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A



Saturday Feb 28

[-1.3° -10.0°]

[06:52 17:57 11h04m]

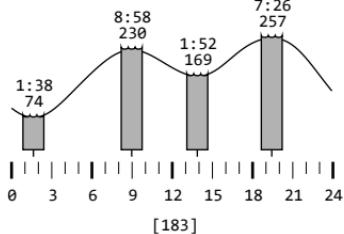


Cnc 130° 93%+ >6:08

P

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A



Sunday Mar 1

[-1.5° -10.0°]

[06:51 17:59 11h08m]

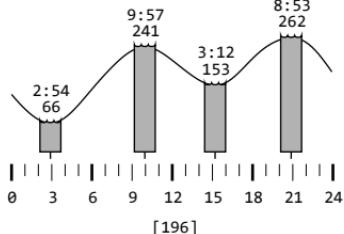


Leo 143° 98%+ >6:30

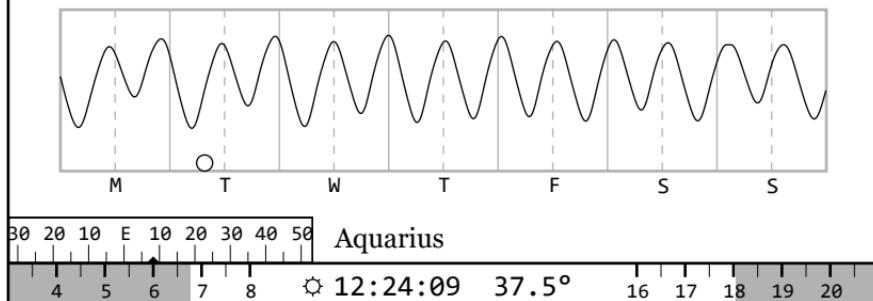
P

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A



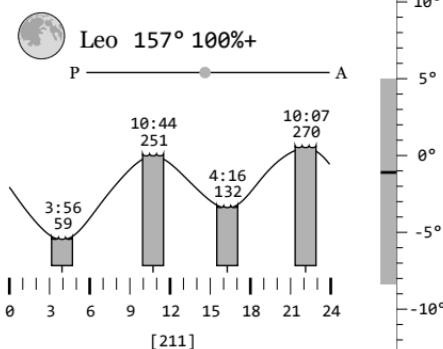
March



Monday Mar 2

[-1.1° -9.4°] [06:49 18:00 11h11m]

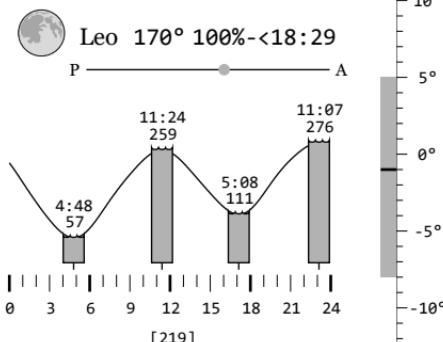
09h Regulus 0.38°S of Moon



Tuesday Mar 3

[-1.0° -9.4°] [06:47 18:02 11h14m]

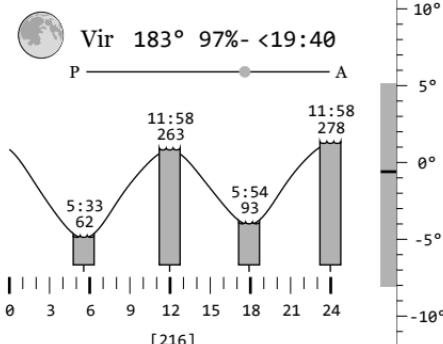
Total Lunar Eclipse
08h Full Moon 382613 km



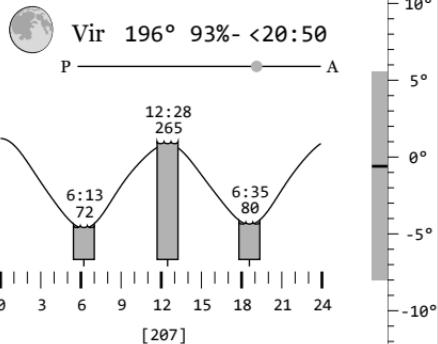
Wednesday Mar 4

[-0.6° -9.0°] [06:45 18:03 11h17m]

23:58 Highest tide this month

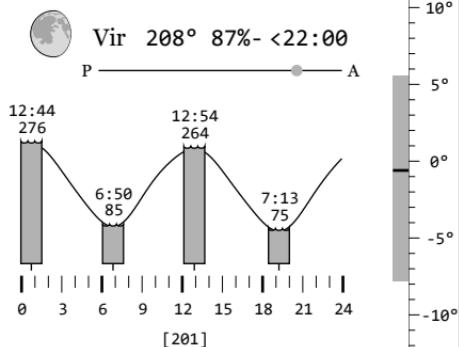


Thursday Mar 5
[-0.6° -8.7°]
[06:43 18:04 11h21m]



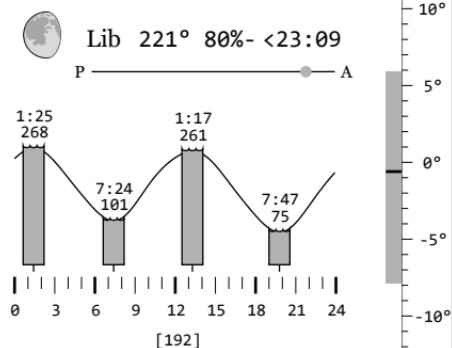
Friday Mar 6
[-0.6° -8.9°]
[06:41 18:06 11h24m]

14h Spica 1.87°N of Moon



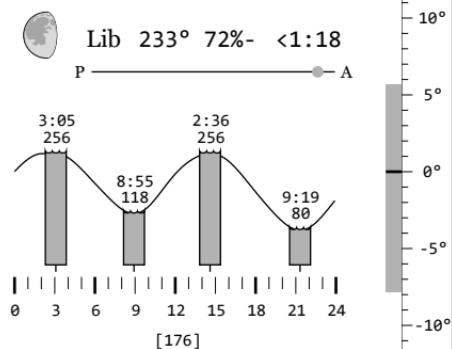
Saturday Mar 7
[-0.6° -8.9°]
[06:40 18:07 11h27m]

07h Mercury in IC 3.64° N

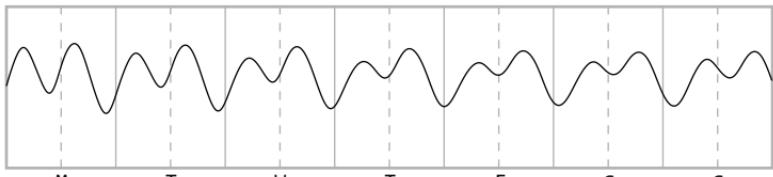


Sunday Mar 8
[0.0° -8.8°]
[07:38 19:09 11h30m]

02h CLOCKS SPRING AHEAD
19h Saturn 1.00°S of Venus



March



30 20 10 E 10 20 30 40

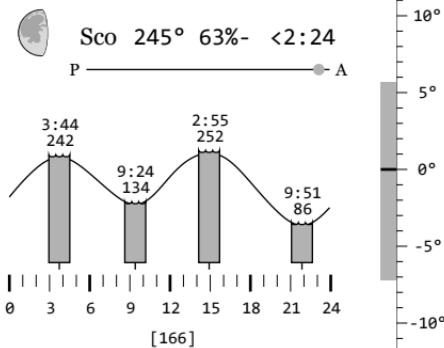
Pisces

5 6 7 8 9 ☽ 13:22:26 40.2° 17 18 19 20 21

Monday Mar 9

[0.0° - 8.8°]

[07:36 19:10 11h34m]

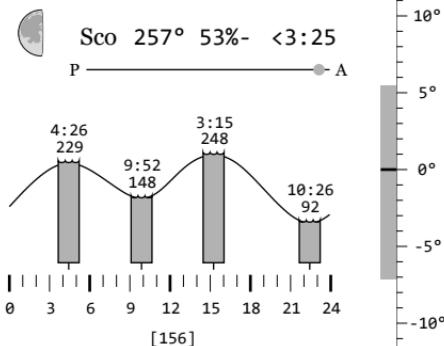


Tuesday Mar 10

[0.0° - 8.8°]

[07:34 19:11 11h37m]

09h Antares 0.71°N of Moon
11h Moon at apogee 404366 km

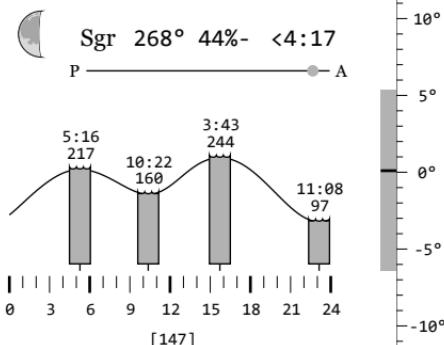


Wednesday Mar 11

[0.1° - 8.7°]

[07:32 19:13 11h40m]

07h Last Quarter 403933 km



Thursday Mar 12

[0.3° - 8.4°]

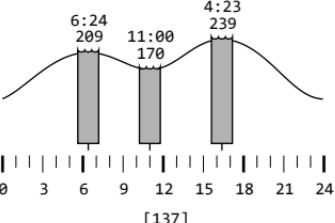
[07:30 19:14 11h44m]



Sgr 280° 35% - <5:01

P

— A —



Friday Mar 13

[0.4° - 7.8°]

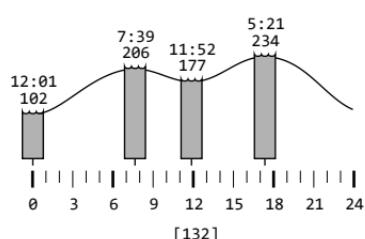
[07:28 19:16 11h47m]



Sgr 293° 26% - <5:35

P

— A —



Saturday Mar 14

[0.4° - 7.5°]

[07:26 19:17 11h50m]

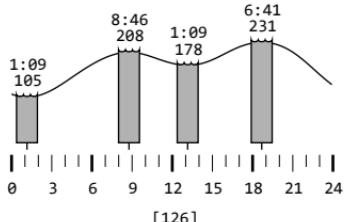
04h Mars 3.96°S of Mercury



Cap 305° 17% - <6:03

P

— A —



Sunday Mar 15

[0.3° - 7.2°]

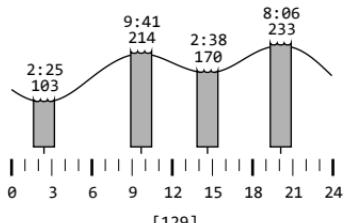
[07:24 19:18 11h53m]



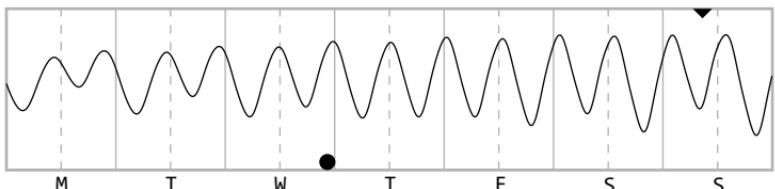
Cap 318° 10% - <6:25

P

— A —



March



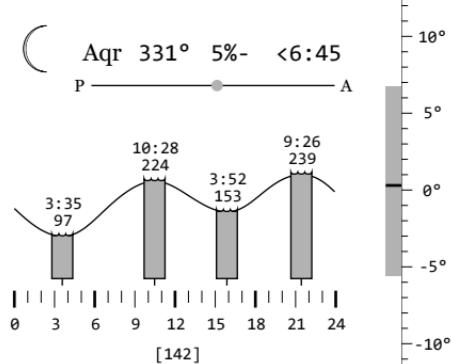
0 30 20 10 E 10 20 30 40

Pisces

Monday Mar 16

[0.3° -6.7°]

[07:22 19:20 11h57m]



Tuesday Mar 17

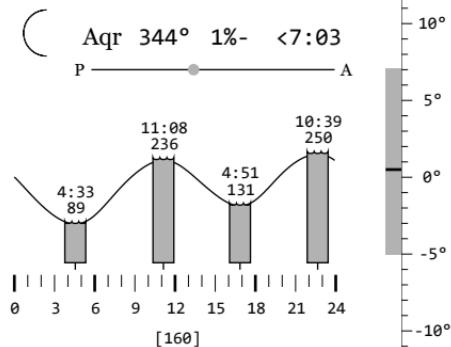
[0.5° -6.2°]

[07:20 19:21 12h00m]

St. Patrick's Day

11h Mercury 2.00°N of Moon

19h Mars 1.53°S of Moon

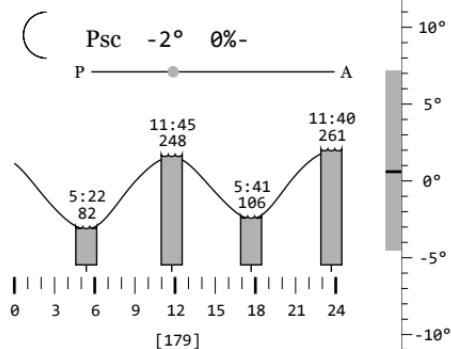


Wednesday Mar 18

[0.6° -6.1°]

[07:18 19:22 12h03m]

22h New Moon 373320 km



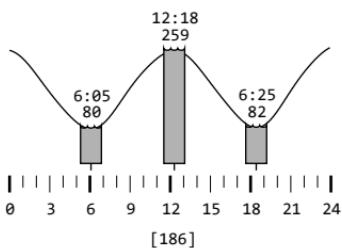
Thursday Mar 19

[0.7° -6.0°]

[07:17 19:24 12h07m]

11h Saturn 4.91°S of Moon

Psc 12° 1%+ >20:29
P ————— A



Friday Mar 20

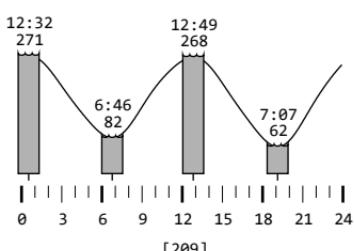
[1.0° -6.0°]

[07:15 19:25 12h10m]

10h Venus 4.62°S of Moon

12h **Equinox**

Psc 27° 5%+ >21:49
P ————— A

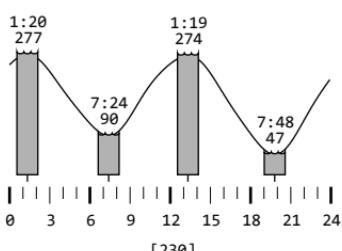


Saturday Mar 21

[1.2° -5.6°]

[07:13 19:26 12h13m]

Ari 41° 12%+ >23:13
P ————— A



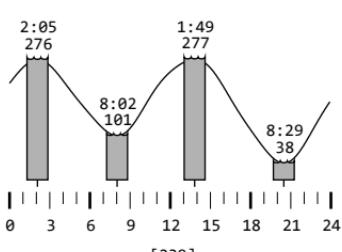
Sunday Mar 22

[1.3° -5.6°]

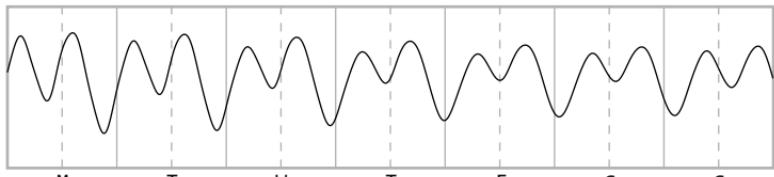
[07:11 19:28 12h17m]

09h Moon at perigee 3666871 km

Tau 56° 20%+ >0:37
P ————— A



March



40 30 20 10 E 10 20 30

Pisces

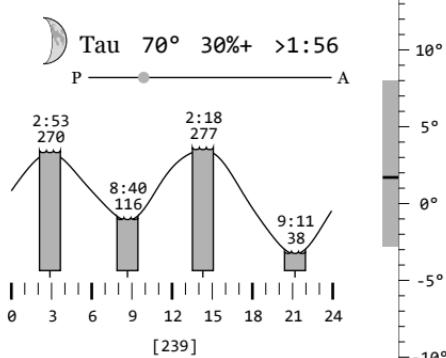
5 6 7 8 9 ☽ 13:18:25 45.8° 17 18 19 20 21

Monday Mar 23

[1.1° -5.6°]

[07:09 19:29 12h20m]

21:11 Lowest tide this month

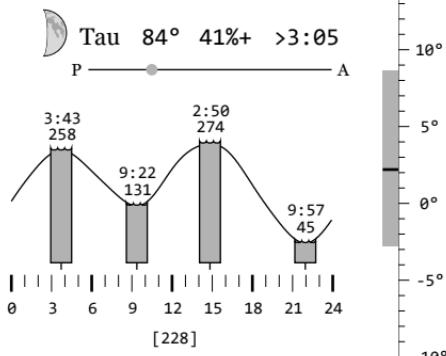


Tuesday Mar 24

[2.2° -5.3°]

[07:07 19:30 12h23m]

01h Aldebaran 10.8°S of Moon

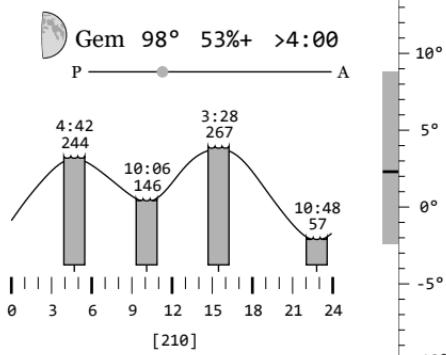


Wednesday Mar 25

[2.3° -4.4°]

[07:05 19:32 12h26m]

06h Saturn 2.13°S of Sun
16h First Quarter 371255 km



Thursday Mar 26

[2.6° -4.0°]

[07:03 19:33 12h30m]

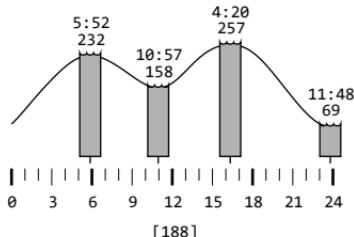
09h Jupiter 3.88° S of Moon

Gem 112° 64%+ >4:41

P

...

A



Friday Mar 27

[3.3° -3.9°]

[07:01 19:35 12h33m]

01h Pollux 3.06° N of Moon

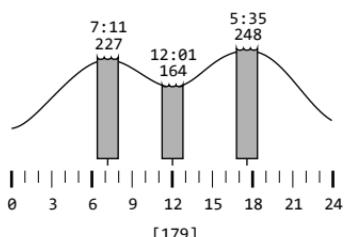
01:13.9 Occultation DD 3.6

Cnc 126° 74%+ >5:12

P

...

A



Saturday Mar 28

[3.6° -3.8°]

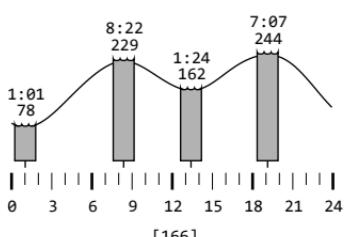
[06:59 19:36 12h36m]

Leo 140° 83%+ >5:35

P

...

A



Sunday Mar 29

[3.7° -3.6°]

[06:57 19:37 12h40m]

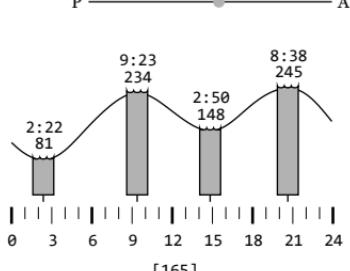
17h Regulus 0.35° S of Moon

Leo 153° 90%+ >5:54

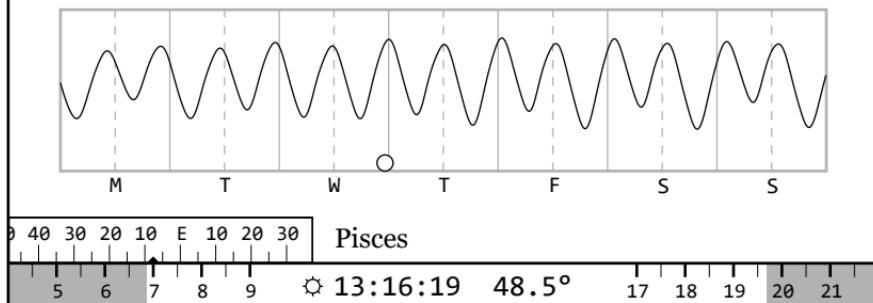
P

...

A



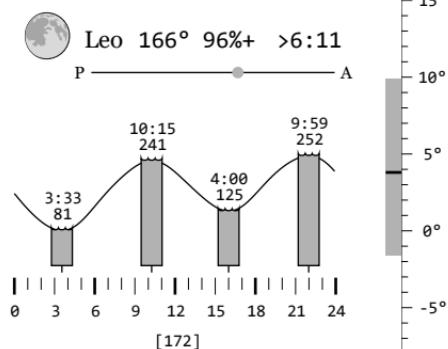
March



Monday Mar 30

[3.8° -3.3°]

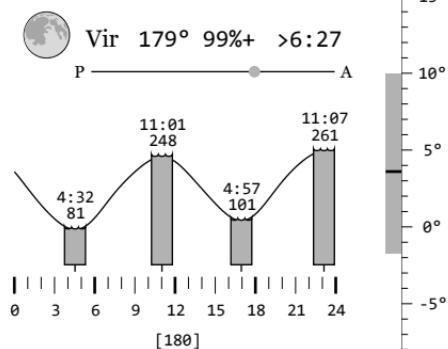
[06:55 19:39 12h43m]



Tuesday Mar 31

[3.6° -3.2°]

[06:53 19:40 12h46m]

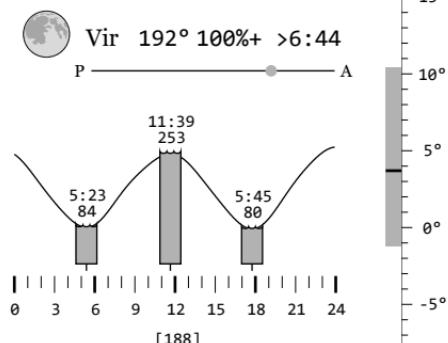


Wednesday Apr 1

[3.7° -3.1°]

[06:51 19:41 12h49m]

23h Full Moon 393595 km



Thursday Apr 2

[3.7° -2.8°]

[06:49 19:43 12h53m]

23h Spica 1.82° N of Moon



Vir 204° 99%- <20:43

P

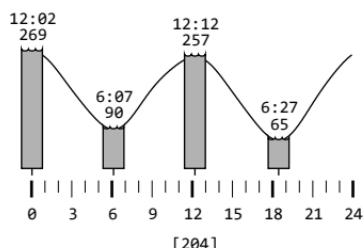
15°

10°

5°

0°

-5°



Friday Apr 3

[3.7° -2.8°]

[06:47 19:44 12h56m]

Good Friday

20h Mercury at GE 27.8° W



Lib 217° 96%- <21:53

P

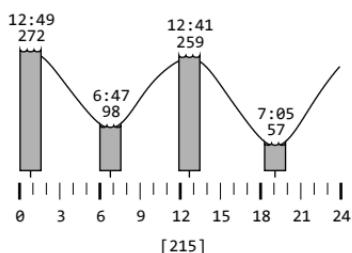
15°

10°

5°

0°

-5°



Saturday Apr 4

[4.1° -2.7°]

[06:46 19:45 12h59m]



Lib 229° 92%- <23:02

P

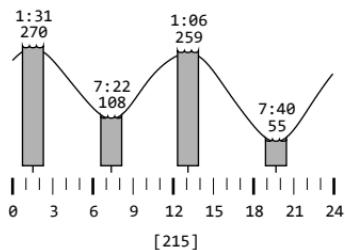
15°

10°

5°

0°

-5°



Sunday Apr 5

[4.4° -2.5°]

[06:44 19:47 13h02m]



Sco 241° 86%- <0:09

P

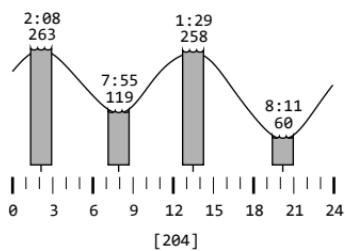
15°

10°

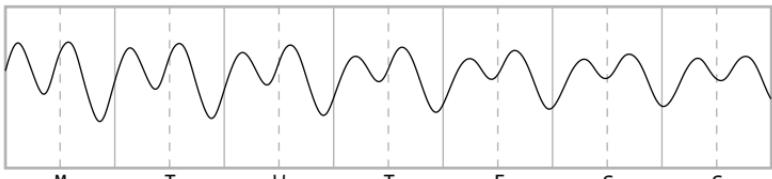
5°

0°

-5°



April



50 40 30 20 10 E 10 20 30

Pisces

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

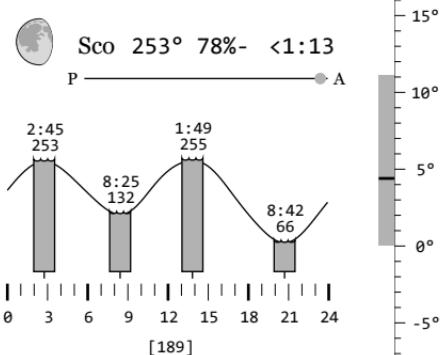
Monday Apr 6

[4.4° -2.4°]

[06:42 19:48 13h06m]

Easter Monday

17h Antares 0.59°N of Moon

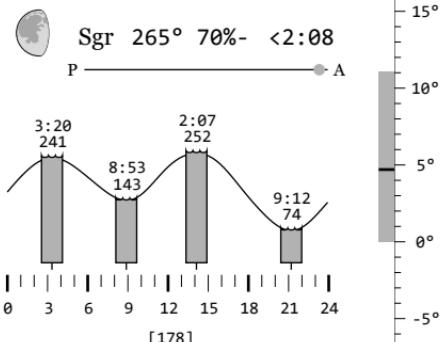


Tuesday Apr 7

[4.7° -2.2°]

[06:40 19:49 13h09m]

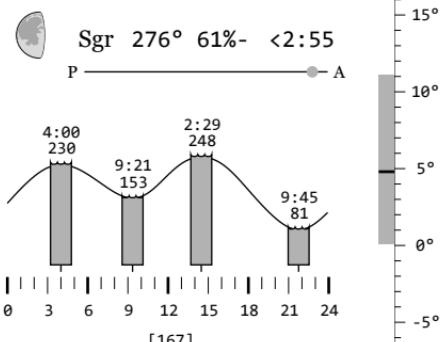
06h Moon at apogee 404954 km



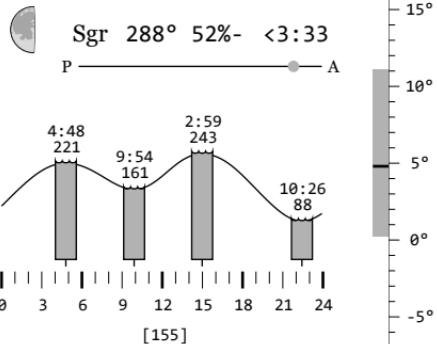
Wednesday Apr 8

[4.8° -2.1°]

[06:38 19:51 13h12m]

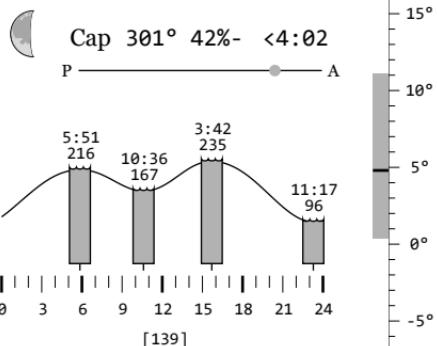


Thursday Apr 9
[4.8° -2.1°]
[06:36 19:52 13h15m]

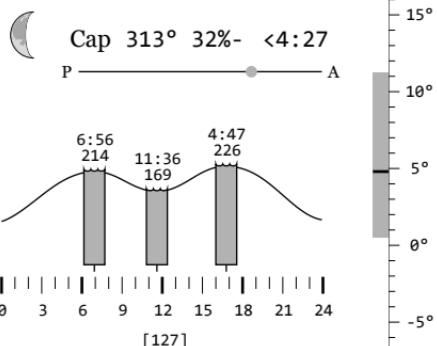


Friday Apr 10
[4.8° -2.1°]
[06:34 19:53 13h19m]

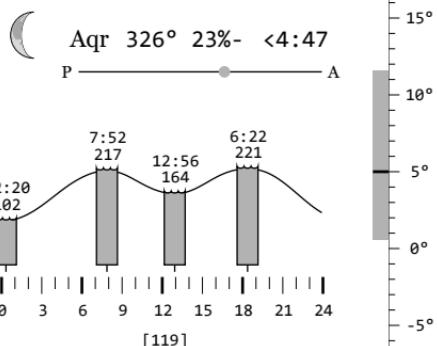
02h Last Quarter 400084 km



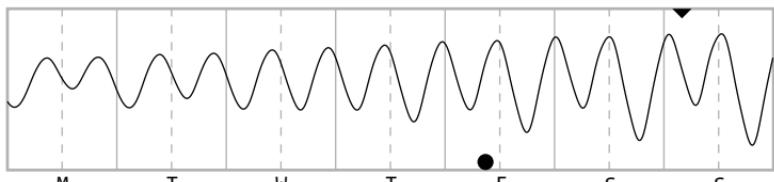
Saturday Apr 11
[4.8° -2.1°]
[06:32 19:55 13h22m]



Sunday Apr 12
[5.0° -1.9°]
[06:30 19:56 13h25m]



April



50 40 30 20 10 E 10 20

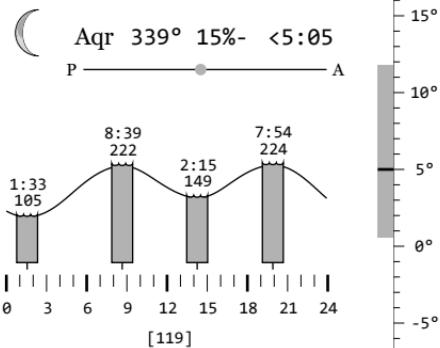
Pisces

5 6 7 8 9 ☽ 13:12:30 53.7° 17 18 19 20 21

Monday Apr 13

[5.0° -1.8°]

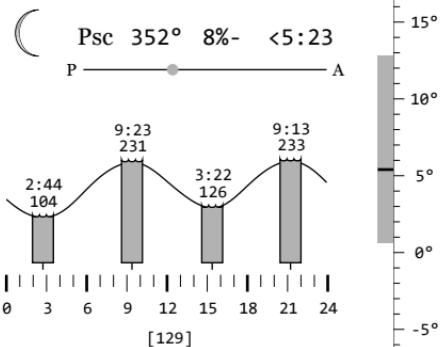
[06:29 19:57 13h28m]



Tuesday Apr 14

[5.4° -1.8°]

[06:27 19:59 13h31m]

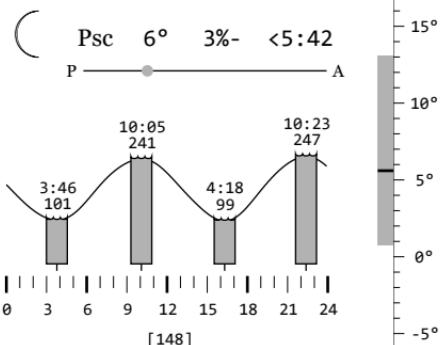


Wednesday Apr 15

[5.6° -1.7°]

[06:25 20:00 13h34m]

16h Mercury 5.20°S of Moon
22h Mars 3.71°S of Moon

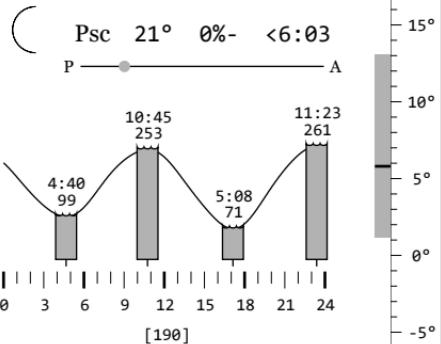


Thursday Apr 16

[5.8° -1.7°]

[06:23 20:01 13h38m]

03h Saturn 5.25° S of Moon

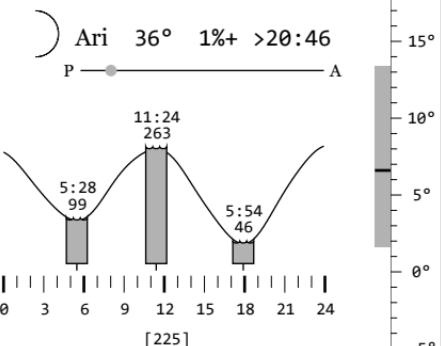


Friday Apr 17

[6.6° -1.4°]

[06:21 20:03 13h41m]

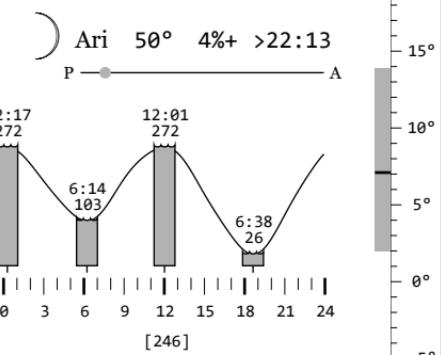
09h New Moon 364189 km



Saturday Apr 18

[7.1° -1.1°]

[06:20 20:04 13h44m]



Sunday Apr 19

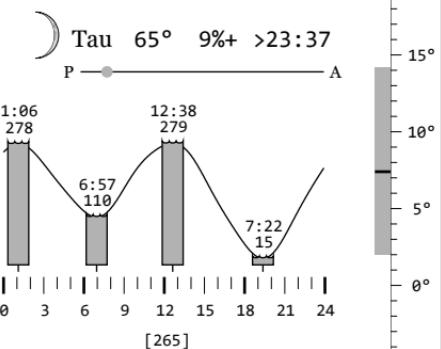
[7.4° -1.0°]

[06:18 20:05 13h47m]

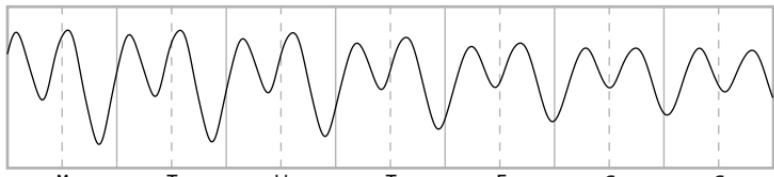
04h Moon at perigee 361652 km

06h Venus 4.76° S of Moon

21h Mars 1.81° N of Mercury



April



0 50 40 30 20 10 E 10 20

Aries

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Monday Apr 20

[7.8° -0.7°]

[06:16 20:07 13h50m]

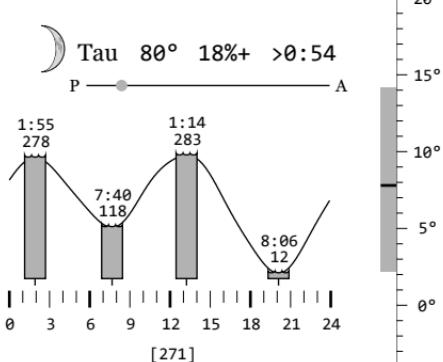
05h Saturn 0.50°N of Mercury

08h Aldebaran 10.66°S of Moon

13:14 Highest tide this month

15h Saturn 1.31°S of Mars

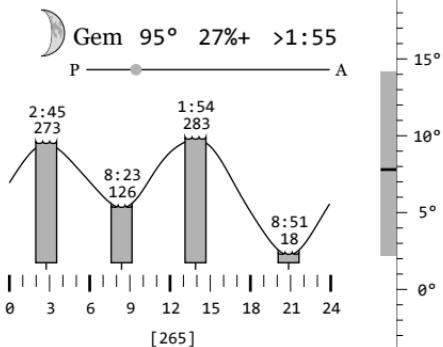
20:06 Lowest tide this month



Tuesday Apr 21

[7.8° -0.6°]

[06:14 20:08 13h53m]



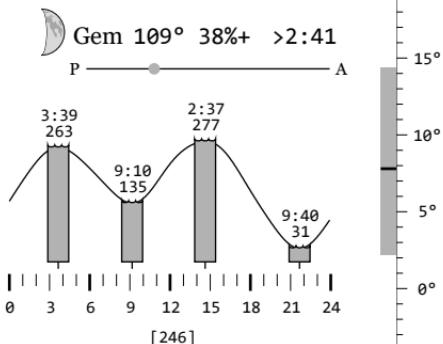
Wednesday Apr 22

[7.8° -0.6°]

[06:13 20:09 13h56m]

19h Jupiter 3.56°S of Moon

22:48.8 Occultation DD 5.0

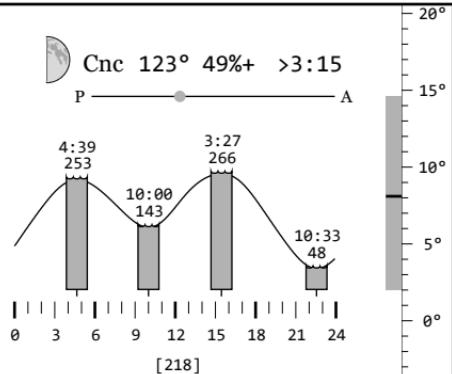


Thursday Apr 23

[8.1° -0.6°]

[06:11 20:11 13h59m]

07h Pollux 3.24° N of Moon

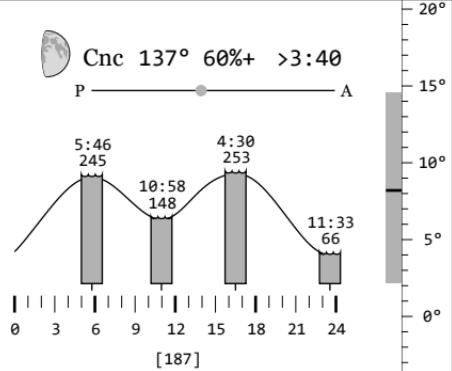


Friday Apr 24

[8.2° -0.4°]

[06:09 20:12 14h02m]

ooh First Quarter 374987 km

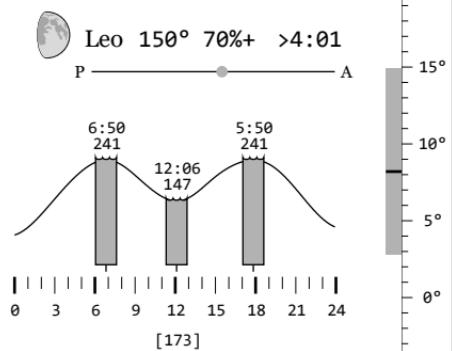


Saturday Apr 25

[8.2° -0.3°]

[06:08 20:13 14h05m]

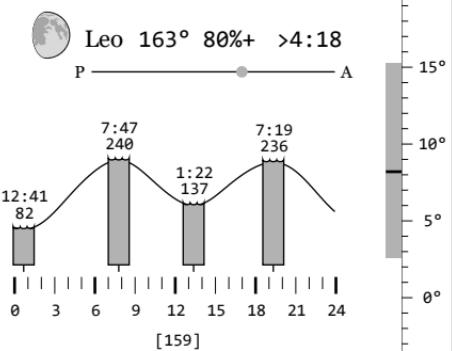
22h Regulus 0.19° S of Moon



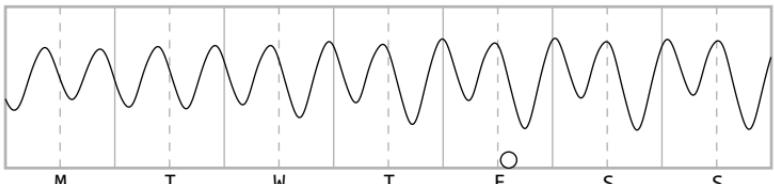
Sunday Apr 26

[8.2° -0.4°]

[06:06 20:15 14h08m]



April



60 50 40 30 20 10 E 10 20 Aries

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Aries

13:09:50

58.4°

17 18 19 20 21

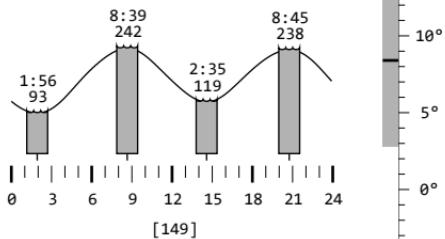
20°

Monday Apr 27

[8.4° -0.3°]

[06:04 20:16 14h11m]

Vir 176° 87%+ >4:34
P ————— A

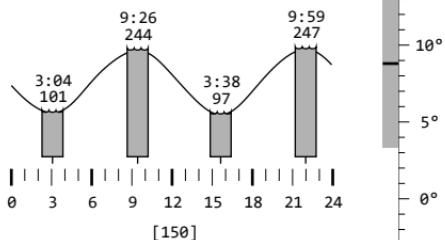


Tuesday Apr 28

[8.8° -0.1°]

[06:03 20:17 14h14m]

Vir 188° 93%+ >4:50
P ————— A

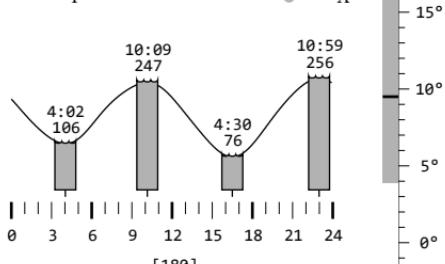


Wednesday Apr 29

[9.5° 0.0°]

[06:01 20:19 14h17m]

Vir 201° 97%+ >5:08
P ————— A



Thursday Apr 30

[9.9° 0.4°]

[05:59 20:20 14h20m]

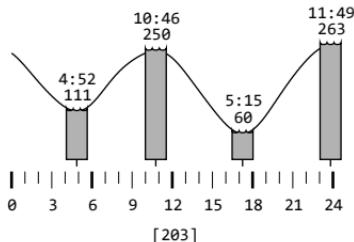
06h Spica 1.82° N of Moon



Vir 213° 99%+ >5:27

P

A



Friday May 1

[10.2° 0.6°]

[05:58 20:21 14h23m]

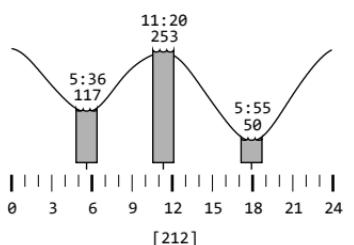
14h Full Moon 402000 km



Lib 225° 100%-<20:49

P

A



Saturday May 2

[11.1° 1.1°]

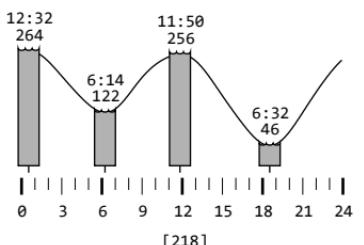
[05:56 20:22 14h26m]



Sco 237° 98%-<21:57

P

A



Sunday May 3

[11.5° 1.4°]

[05:55 20:24 14h28m]

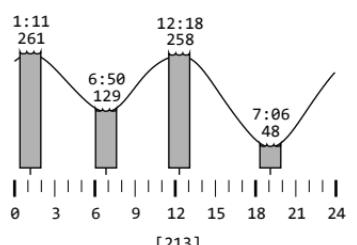
04h Aldebaran 6.53° S of Venus



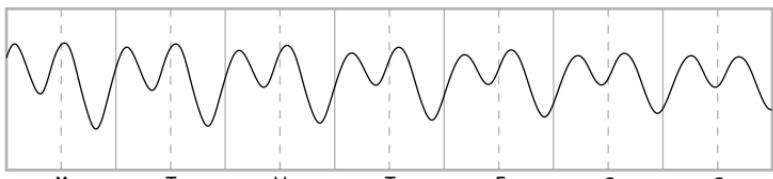
Sco 249° 95%-<23:02

P

A



May



60 50 40 30 20 10 E 10

Aries

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

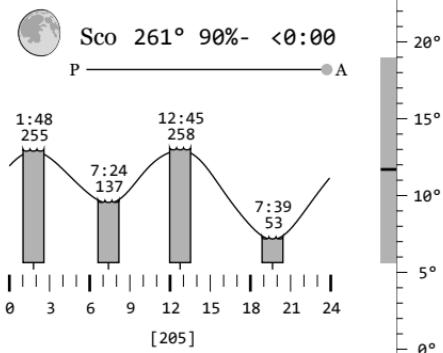
13:09:07 60.4°

Monday May 4

[11.7° 1.7°]

[05:53 20:25 14h31m]

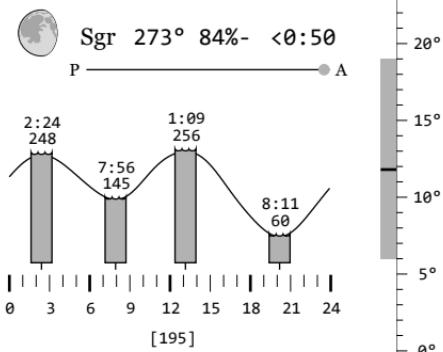
oooh Antares 0.45°N of Moon
20h Moon at apogee 405827 km



Tuesday May 5

[11.8° 1.7°]

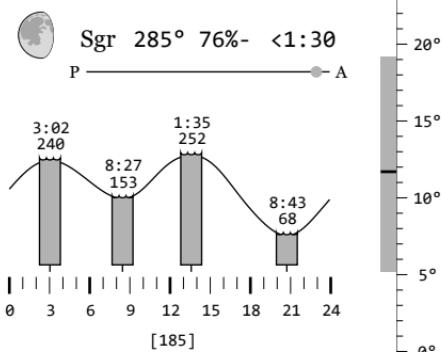
[05:52 20:26 14h34m]



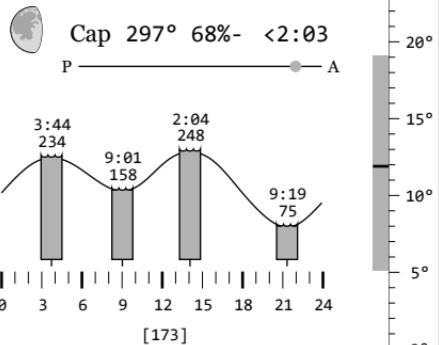
Wednesday May 6

[11.7° 1.7°]

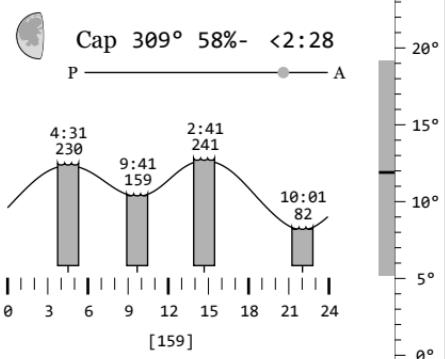
[05:50 20:28 14h37m]



Thursday May 7
[11.9° 1.8°]
[05:49 20:29 14h39m]

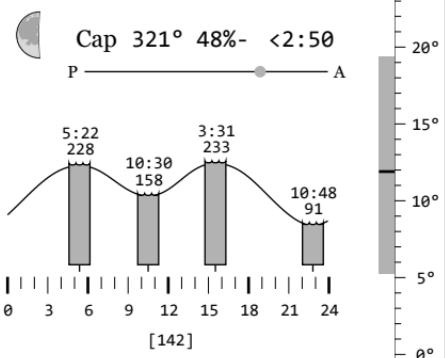


Friday May 8
[11.9° 1.8°]
[05:48 20:30 14h42m]

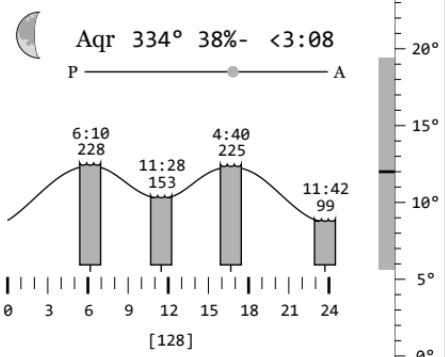


Saturday May 9
[11.9° 2.2°]
[05:46 20:31 14h45m]

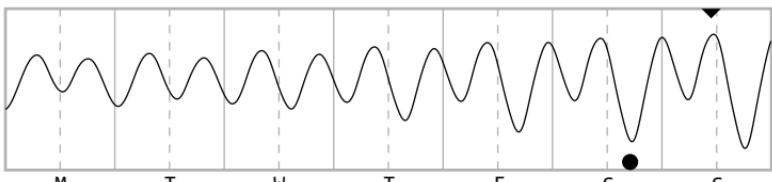
18h Last Quarter 393381 km



Sunday May 10
[12.0° 2.3°]
[05:45 20:33 14h47m]



May

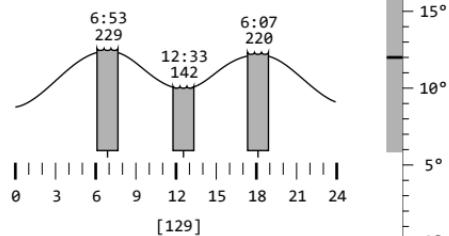
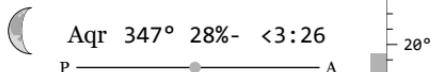


0 60 50 40 30 20 10 E 10 Taurus

Monday May 11

[12.0° 2.7°]

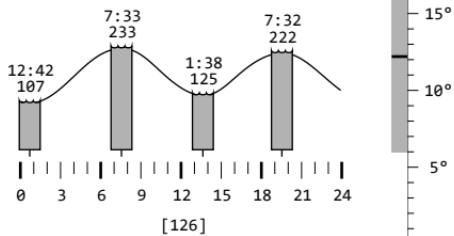
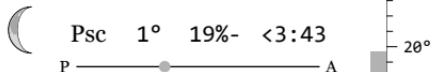
[05:44 20:34 14h50m]



Tuesday May 12

[12.2° 2.8°]

[05:42 20:35 14h52m]

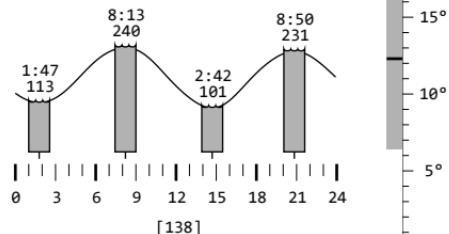
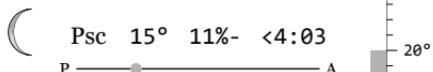


Wednesday May 13

[12.3° 2.8°]

[05:41 20:36 14h55m]

19h Saturn 5.69°S of Moon



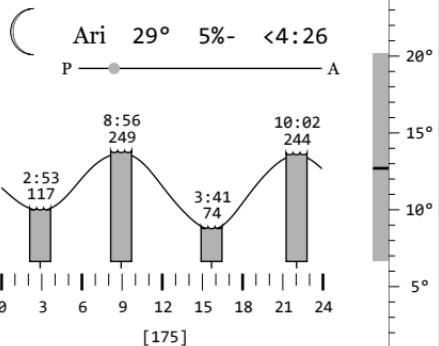
Thursday May 14

[12.7° 3.0°]

[05:40 20:38 14h57m]

11h Mercury in SC 0.15° N

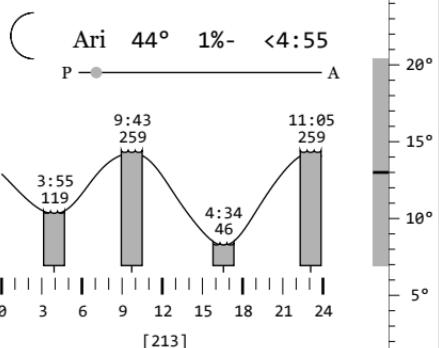
22h Mars 5.15° S of Moon



Friday May 15

[13.0° 3.1°]

[05:39 20:39 15h00m]

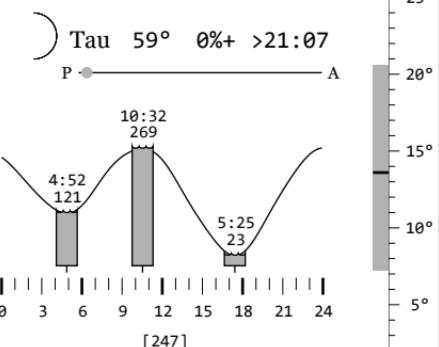


Saturday May 16

[13.6° 3.3°]

[05:37 20:40 15h02m]

17h New Moon 358591 km



Sunday May 17

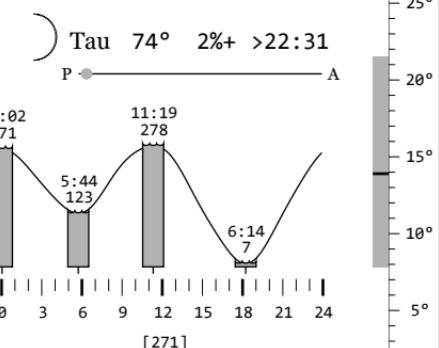
[13.9° 3.6°]

[05:36 20:41 15h04m]

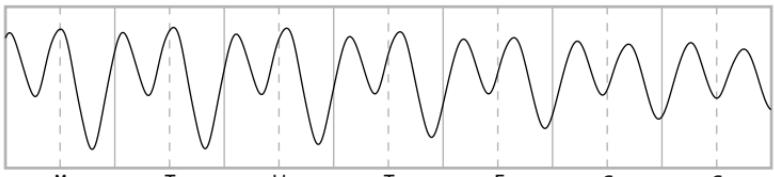
ooh Mercury 4.51° S of Moon

11h Moon at perigee 358102 km

18h Aldebaran 10.55° S of Moon



May



70 60 50 40 30 20 10 E 10

Taurus

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

\odot 13:09:04

63.8°

17 18 19 20

21

Monday May 18

[14.5° 3.8°]

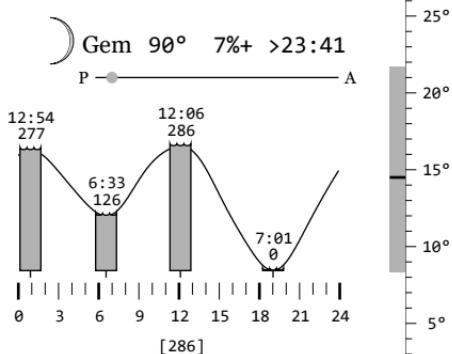
[05:35 20:42 15h07m]

Victoria Day

19:01 Lowest tide in the almanac

19:01 Lowest tide this month

23h Venus 2.94°S of Moon

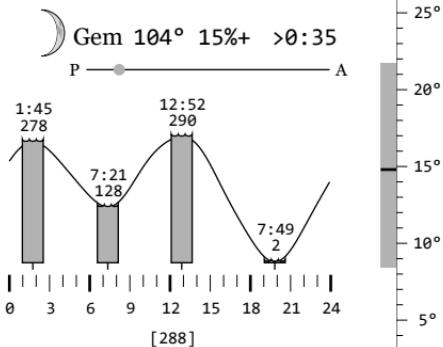


Tuesday May 19

[14.8° 3.9°]

[05:34 20:44 15h09m]

12:52 Highest tide this month

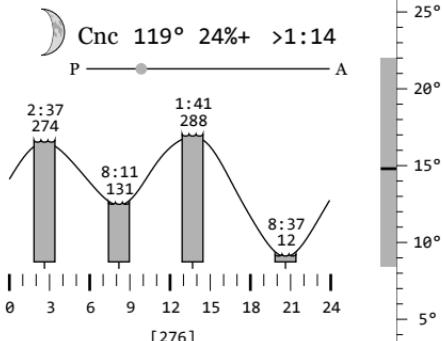


Wednesday May 20

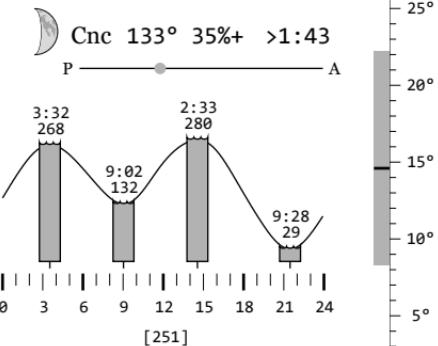
[14.8° 4.2°]

[05:33 20:45 15h11m]

10h Jupiter 3.09°S of Moon
14h Pollux 3.47°N of Moon

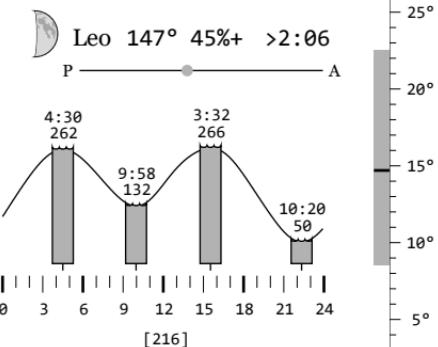


Thursday May 21
[14.6° 4.4°]
[05:32 20:46 15h13m]



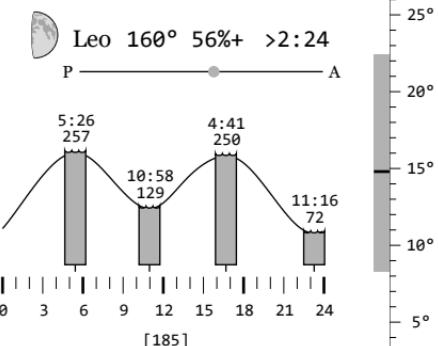
Friday May 22
[14.7° 4.4°]
[05:31 20:47 15h15m]

12h Aldebaran 6.97°S of Mercury

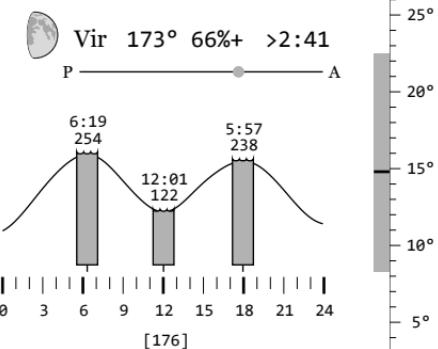


Saturday May 23
[14.8° 4.4°]
[05:30 20:48 15h17m]

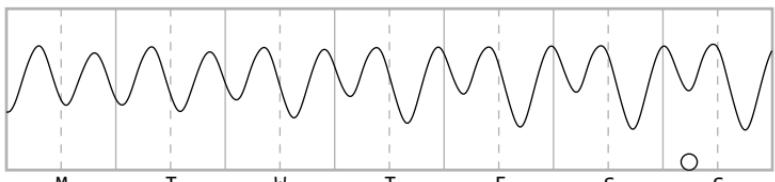
04h Regulus 0.08°N of Moon
08h First Quarter 381006 km



Sunday May 24
[14.8° 4.5°]
[05:29 20:49 15h19m]



May



70 60 50 40 30 20 10 E

Taurus

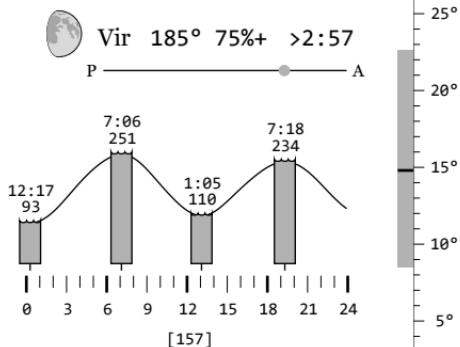
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

13:09:42 65.1°

Monday May 25

[14.8° 4.8°]

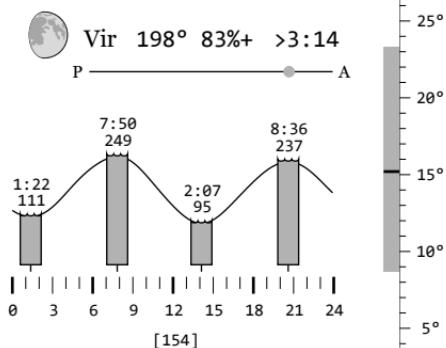
[05:28 20:50 15h21m]



Tuesday May 26

[15.2° 5.1°]

[05:28 20:51 15h23m]

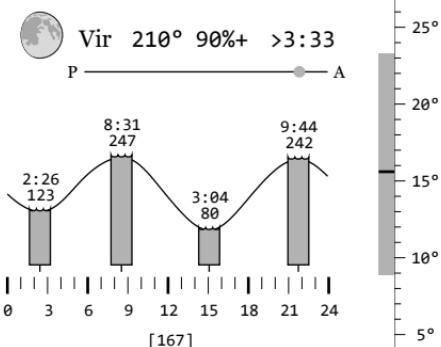


Wednesday May 27

[15.6° 5.3°]

[05:27 20:52 15h25m]

12h Spica 1.95°N of Moon



Thursday May 28
[16.2° 5.8°]
[05:26 20:53 15h27m]



Lib 222° 95%+ >3:55

P

25°

A

20°

9:10
247

10:42
248

3:24
131

3:55
67

[181]

15°

10°

0 3 6 9 12 15 18 21 24

5°

Friday May 29
[16.7° 6.1°]
[05:25 20:54 15h28m]



Lib 234° 98%+ >4:22

P

25°

A

20°

4:14
137

9:48
248

11:31
250

4:41
58

[192]

15°

10°

0 3 6 9 12 15 18 21 24

5°

Saturday May 30
[16.9° 6.5°]
[05:25 20:55 15h30m]



Sco 246° 100%+ >4:57

P

25°

A

20°

4:59
141

10:24
251

5:23
53

[198]

15°

10°

0 3 6 9 12 15 18 21 24

5°

Sunday May 31
[17.2° 6.7°]
[05:24 20:56 15h31m]

06h Antares 0.39° N of Moon
06h Full Moon 406135 km



Sco 258° 99%- <21:53

P

25°

A

20°

12:14
250

11:01
255

6:03
51

5:39
145

[204]

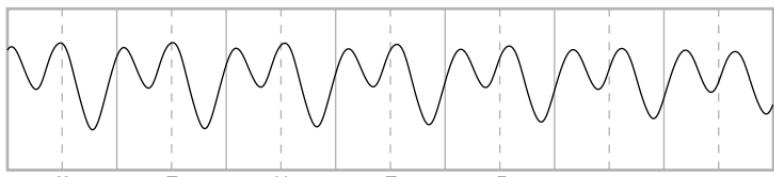
15°

10°

0 3 6 9 12 15 18 21 24

5°

June



70 60 50 40 30 20 10 E

Taurus

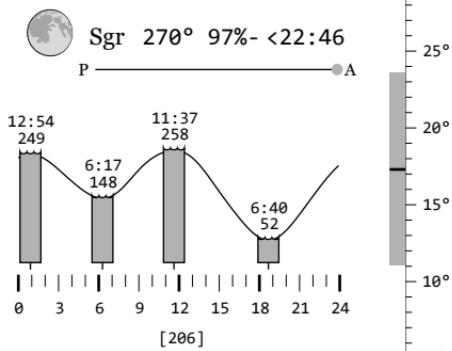
5 6 7 8 9 ☀ 13:10:43 66.1° 17 18 19 20 21

Monday Jun 1

[17.3° 6.9°]

[05:23 20:57 15h33m]

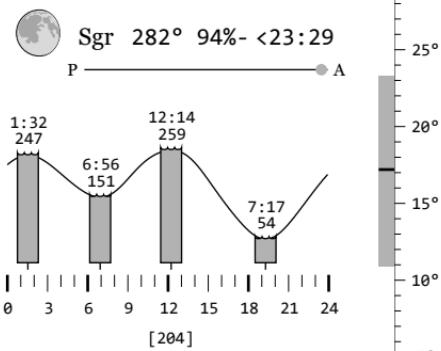
02h Moon at apogee 406356 km



Tuesday Jun 2

[17.2° 6.9°]

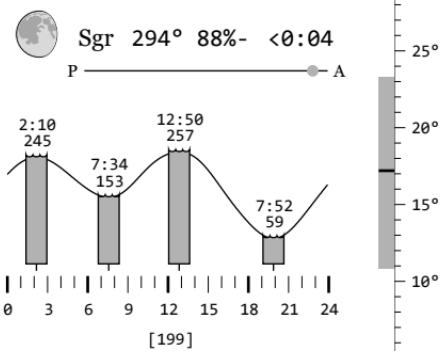
[05:23 20:58 15h34m]



Wednesday Jun 3

[17.2° 6.8°]

[05:22 20:59 15h36m]



Thursday Jun 4

[17.2° 7.0°]

[05:22 20:59 15h37m]

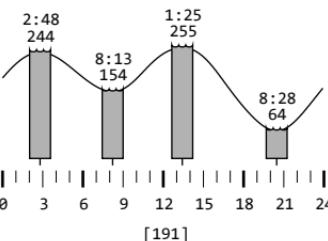
08h Pollux 6.38°N of Jupiter



Cap 306° 81%- <0:31

P

A



Friday Jun 5

[17.2° 7.2°]

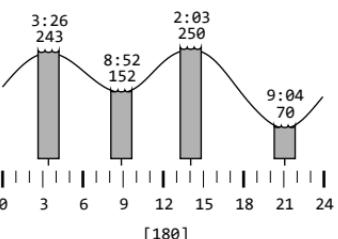
[05:21 21:00 15h38m]



Cap 318° 73%- <0:53

P

A



Saturday Jun 6

[17.3° 7.2°]

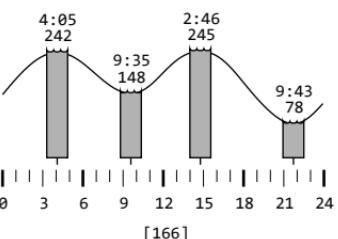
[05:21 21:01 15h39m]



Aqr 330° 64%- <1:12

P

A



Sunday Jun 7

[17.4° 7.2°]

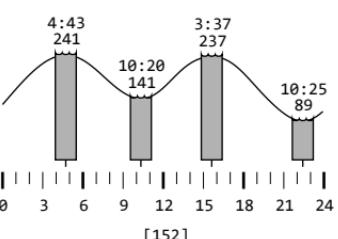
[05:21 21:02 15h41m]



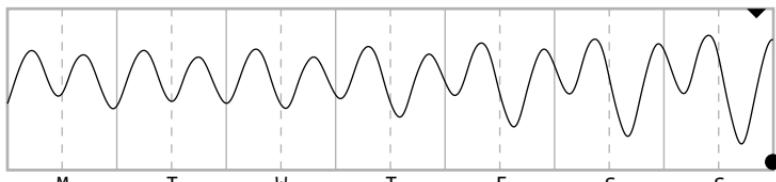
Aqr 343° 54%- <1:30

P

A



June



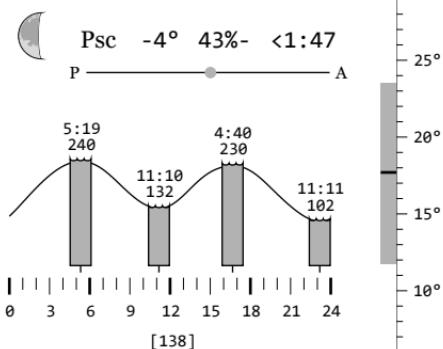
Monday Jun 8

[17.7° 7.3°]

[05:20 21:02 15h42m]

07h Last Quarter 385656 km

13h Pollux 4.74°N of Venus

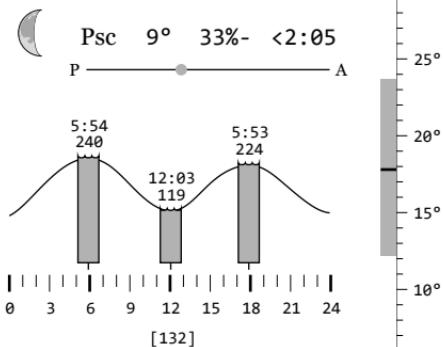


Tuesday Jun 9

[17.8° 7.6°]

[05:20 21:03 15h42m]

09h Jupiter 1.64°S of Venus

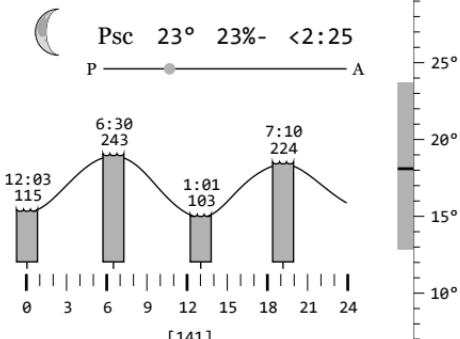


Wednesday Jun 10

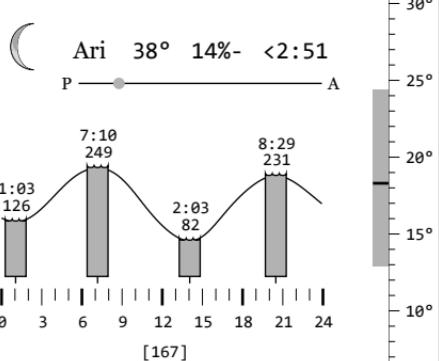
[18.1° 8.0°]

[05:20 21:04 15h43m]

09h Saturn 6.20°S of Moon

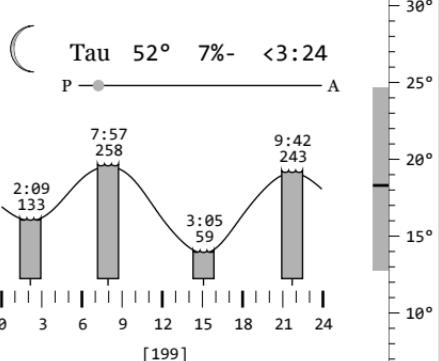


Thursday Jun 11
[18.3° 8.3°]
[05:20 21:04 15h44m]

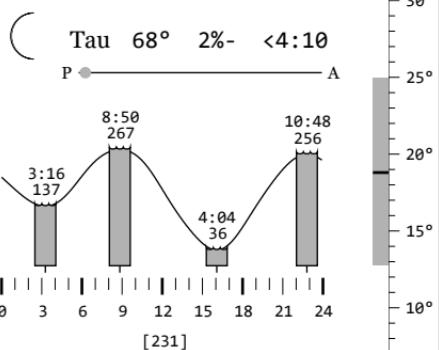


Friday Jun 12
[18.3° 8.5°]
[05:19 21:05 15h45m]

18h Mars 5.64° S of Moon

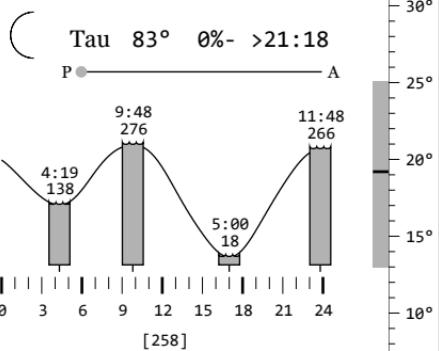


Saturday Jun 13
[18.8° 8.7°]
[05:19 21:05 15h45m]

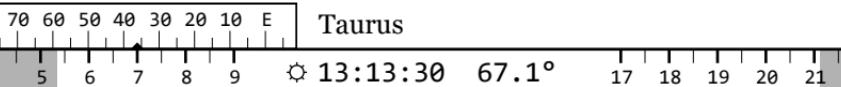
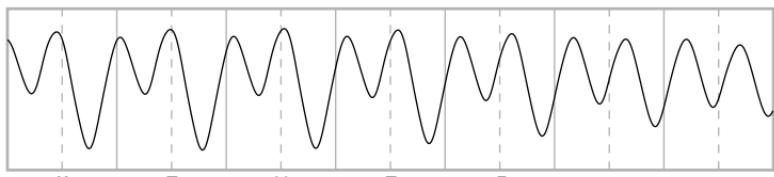


Sunday Jun 14
[19.2° 9.1°]
[05:19 21:06 15h46m]

04h Aldebaran 10.54° S of Moon
20h Moon at perigee 357224 km



June

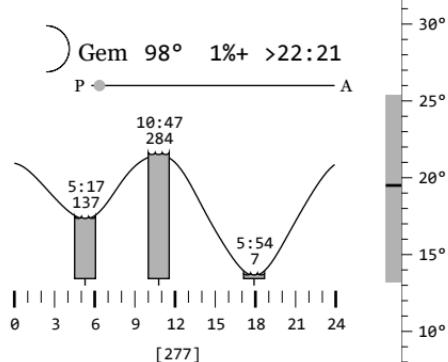


Monday Jun 15

[19.5° 9.5°]

[05:19 21:06 15h47m]

ooh New Moon 357218 km
17h Mercury at GE 24.5° E

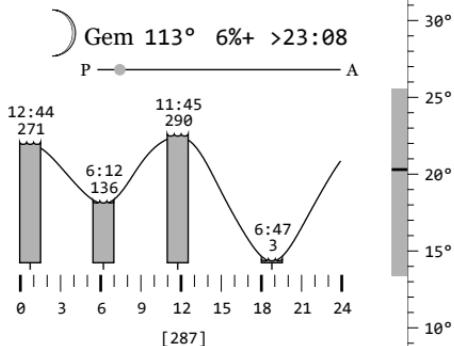


Tuesday Jun 16

[20.3° 9.9°]

[05:19 21:07 15h47m]

17h Mercury 2.59°S of Moon
18:47 Lowest tide this month

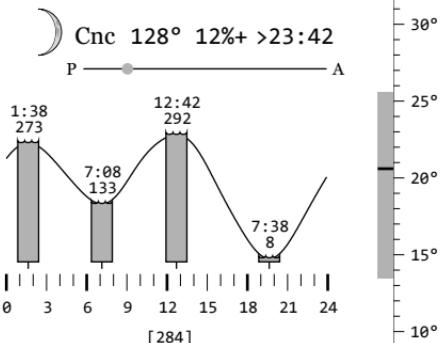


Wednesday Jun 17

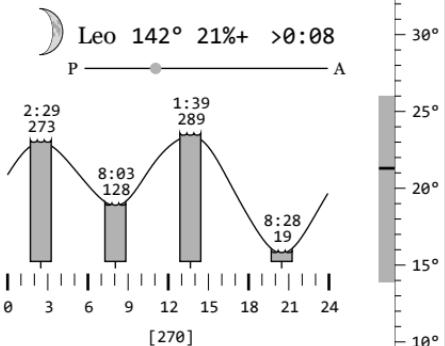
[20.6° 10.1°]

[05:19 21:07 15h47m]

ooh Pollux 3.64°N of Moon
04h Jupiter 2.54°S of Moon
12:42 Highest tide this month
17h Venus 0.29°S of Moon

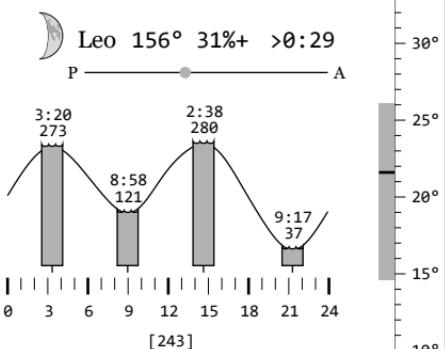


Thursday Jun 18
[21.3° 10.5°]
[05:19 21:07 15h48m]



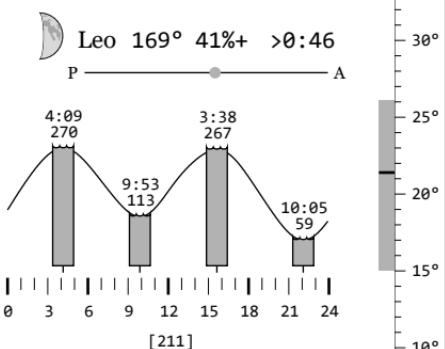
Friday Jun 19
[21.6° 10.8°]
[05:19 21:08 15h48m]

12h Regulus 0.35°N of Moon



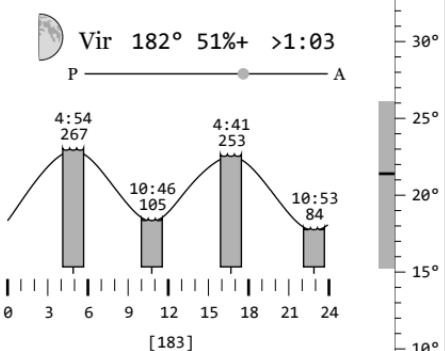
Saturday Jun 20
[21.4° 11.1°]
[05:20 21:08 15h48m]

23:02.0 Occultation DD 5.2

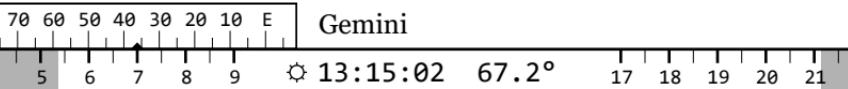
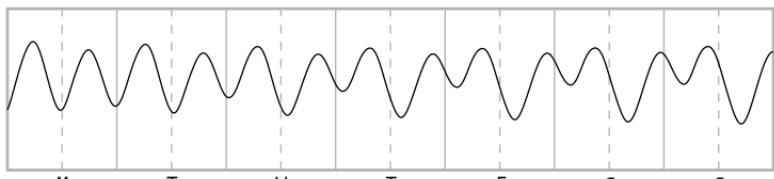


Sunday Jun 21
[21.4° 11.1°]
[05:20 21:08 15h48m]

05h Solstice
19h First Quarter 388418 km



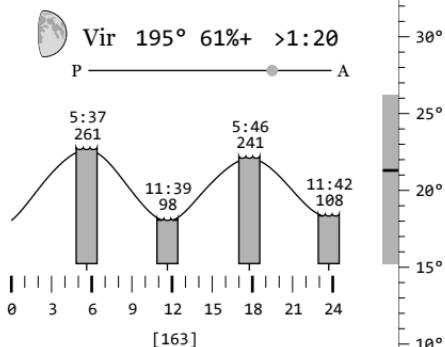
June



Monday Jun 22

[21.3° 11.1°]

[05:20 21:08 15h48m]

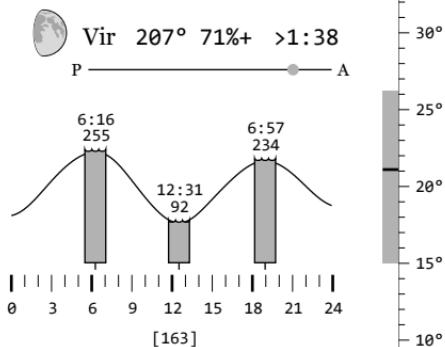


Tuesday Jun 23

[21.1° 11.2°]

[05:20 21:08 15h48m]

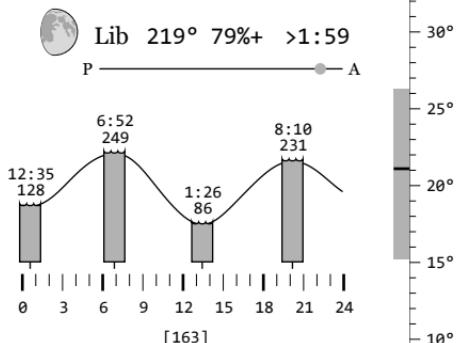
16h Pollux 7.45°N of Mercury
18h Spica 2.17°N of Moon
22:39.7 Occultation DD 5.5



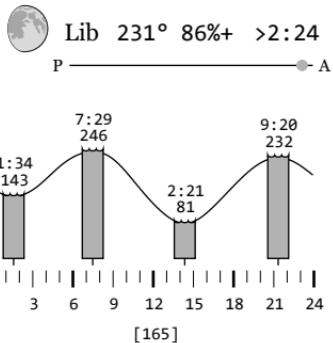
Wednesday Jun 24

[21.1° 11.4°]

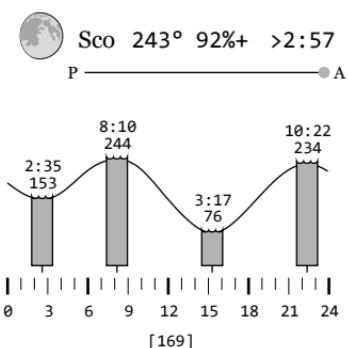
[05:21 21:08 15h47m]



Thursday Jun 25
[21.1° 11.6°]
[05:21 21:08 15h47m]

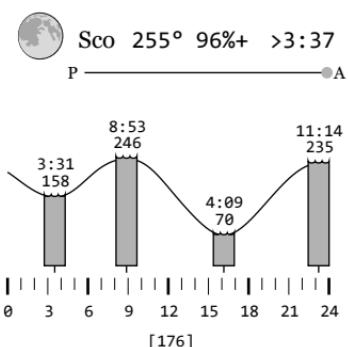


Friday Jun 26
[21.2° 11.6°]
[05:21 21:08 15h47m]



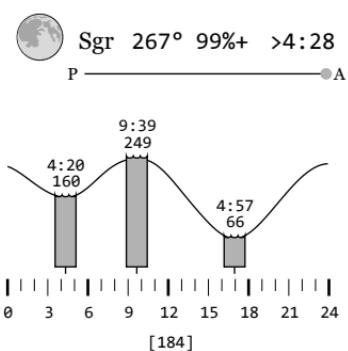
Saturday Jun 27
[21.3° 11.7°]
[05:22 21:08 15h46m]

12h Antares 0.45° N of Moon

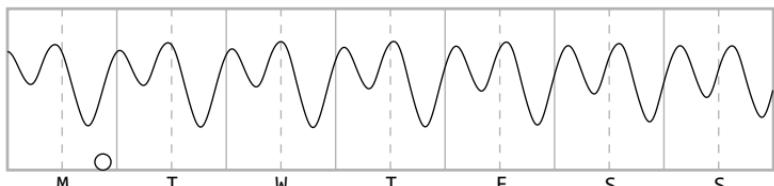


Sunday Jun 28
[21.7° 12.0°]
[05:22 21:08 15h46m]

04h Moon at apogee 406255 km



June



70 60 50 40 30 20 10 E

Gemini

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

\odot 13:16:27

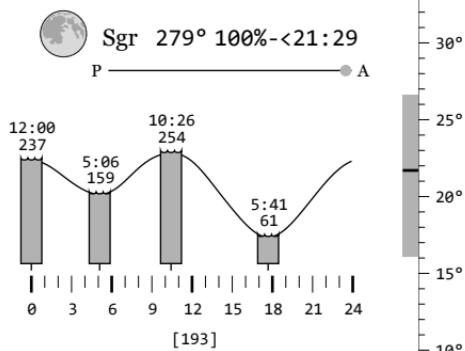
66.8°

Monday Jun 29

[21.7° 12.0°]

[05:23 21:08 15h45m]

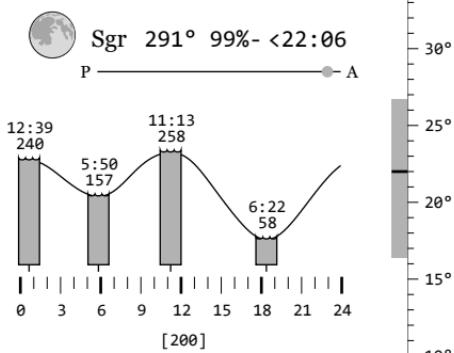
21h Full Moon 405254 km



Tuesday Jun 30

[22.0° 12.2°]

[05:23 21:08 15h44m]

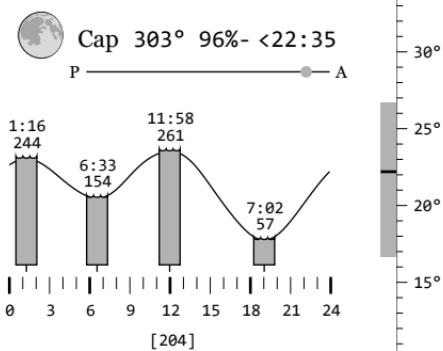


Wednesday Jul 1

[22.2° 12.4°]

[05:24 21:08 15h44m]

Canada Day



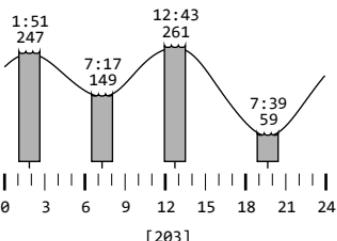
Thursday Jul 2
[22.5° 12.6°]
[05:24 21:08 15h43m]



Cap 315° 92%- <22:58

P

A



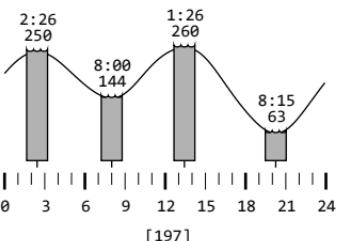
Friday Jul 3
[22.5° 12.8°]
[05:25 21:07 15h42m]



Aqr 327° 85%- <23:18

P

A



Saturday Jul 4
[22.5° 12.8°]
[05:26 21:07 15h41m]

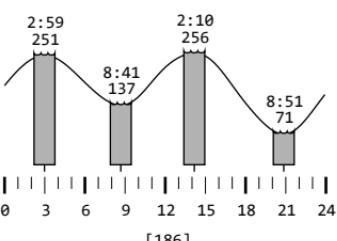
08h Pollux 10.24° N of Mercury



Aqr 340° 78%- <23:36

P

A



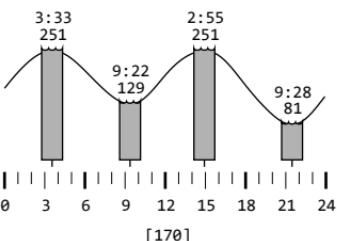
Sunday Jul 5
[22.6° 12.8°]
[05:26 21:07 15h40m]



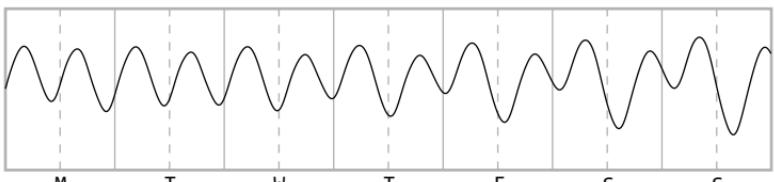
Psc 352° 68%- <23:52

P

A



July



70 60 50 40 30 20 10 E

Gemini

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

13:17:40

66.2°

17 18 19 20 21

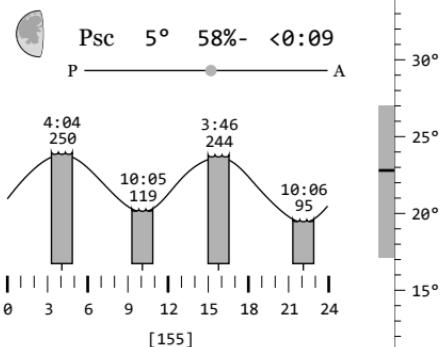
35° 30° 25° 20° 15°

Monday Jul 6

[22.8° 13.1°]

[05:27 21:06 15h39m]

15h Earth at aphelion 1.017 AU

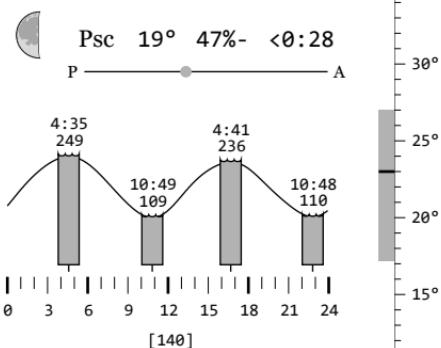


Tuesday Jul 7

[23.0° 13.2°]

[05:28 21:06 15h38m]

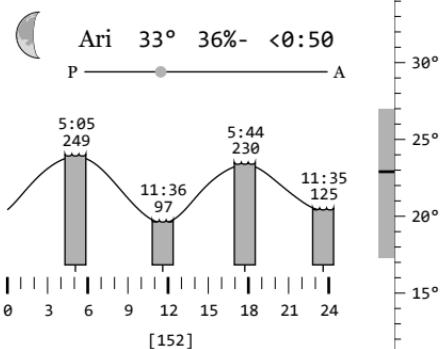
16h Last Quarter 378605 km
19h Saturn 6.66°S of Moon



Wednesday Jul 8

[22.9° 13.3°]

[05:29 21:05 15h36m]

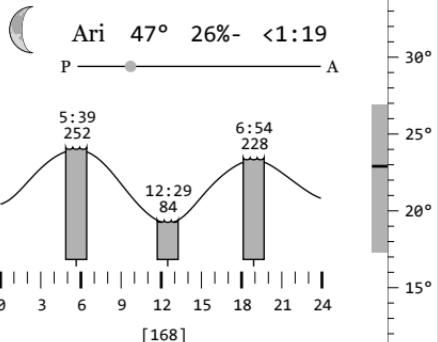


Thursday Jul 9

[22.9° 13.3°]

[05:29 21:05 15h35m]

11h Regulus 1.06° S of Venus



Friday Jul 10

[23.3° 13.5°]

[05:30 21:04 15h34m]

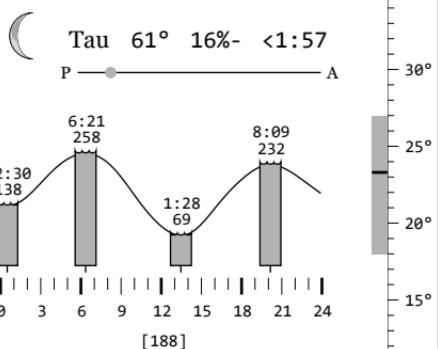
Saturday Jul 11

[23.3° 13.8°]

[05:31 21:04 15h32m]

12h Mars 5.32° S of Moon

15h Aldebaran 10.63° S of Moon

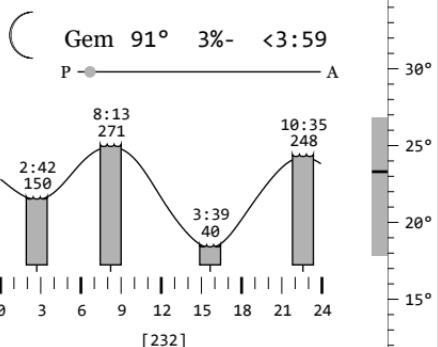


Sunday Jul 12

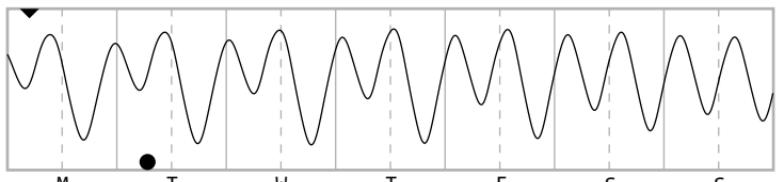
[23.3° 13.9°]

[05:32 21:03 15h31m]

22h Mercury in IC 4.84° S



July



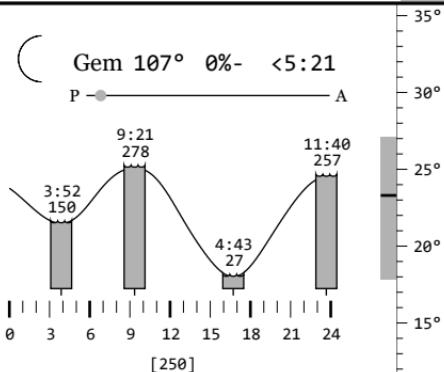
70 60 50 40 30 20 10 E Gemini

Monday Jul 13

[23.3° 13.9°]

[05:33 21:02 15h29m]

05h Moon at perigee 359137 km



Tuesday Jul 14

[23.4° 14.0°]

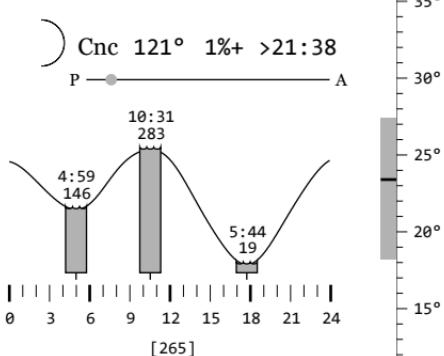
[05:34 21:02 15h27m]

02h Mercury 8.42°S of Moon

04h Aldebaran 5.38°S of Mars

07h New Moon 360150 km

10h Pollux 3.70°N of Moon



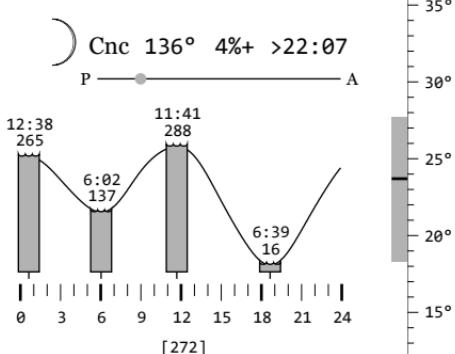
Wednesday Jul 15

[23.7° 14.2°]

[05:35 21:01 15h26m]

00h Jupiter 1.99°S of Moon

18:39 Lowest tide this month

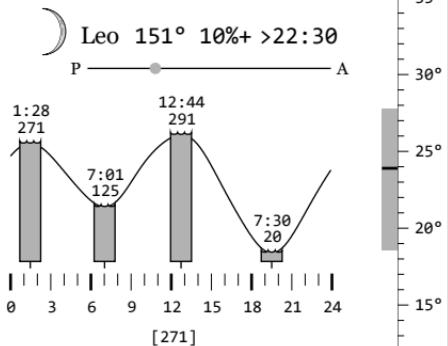


Thursday Jul 16

[23.9° 14.5°]

[05:36 21:00 15h24m]

12:44 Highest tide this month
22h Regulus 0.51°N of Moon

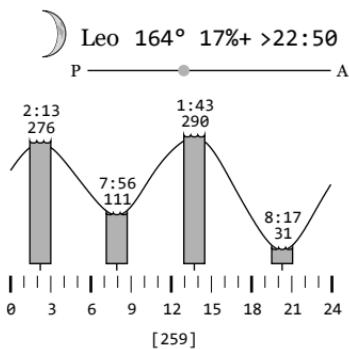


Friday Jul 17

[23.9° 14.6°]

[05:37 20:59 15h22m]

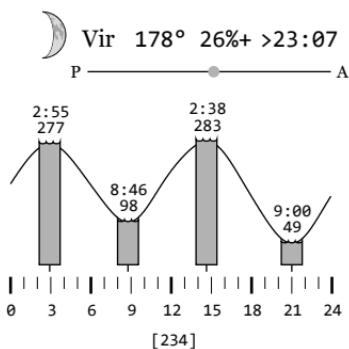
14h Venus 2.02°N of Moon



Saturday Jul 18

[24.0° 14.8°]

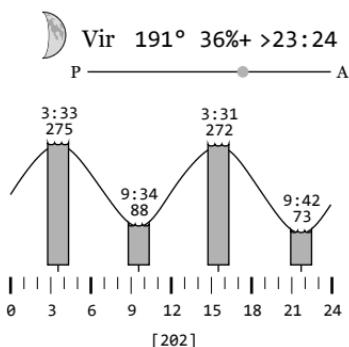
[05:38 20:58 15h20m]



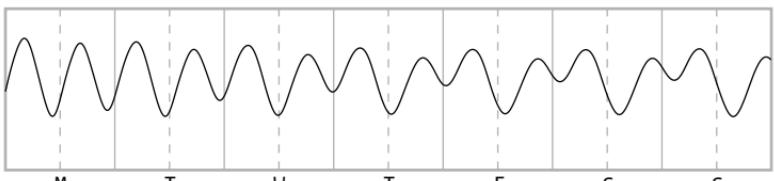
Sunday Jul 19

[24.1° 14.9°]

[05:39 20:57 15h18m]



July



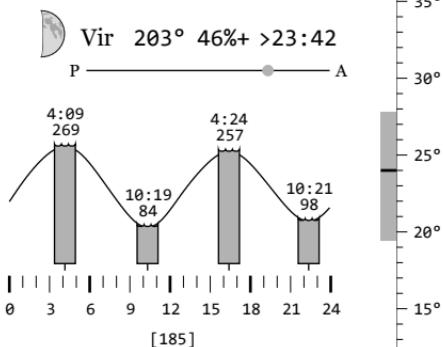
70 60 50 40 30 20 10 E 10 Cancer

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Monday Jul 20

[24.0° 14.9°]

[05:40 20:56 15h16m]

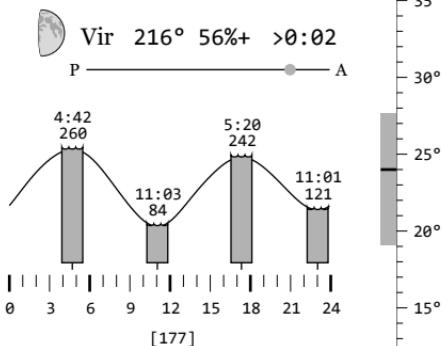


Tuesday Jul 21

[24.0° 14.5°]

[05:41 20:56 15h14m]

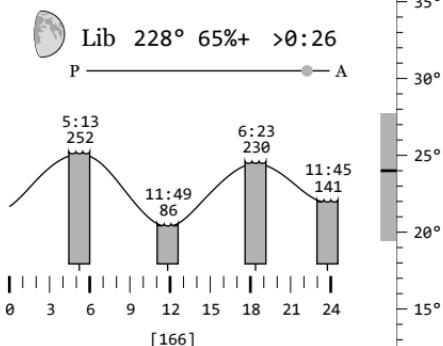
01h Spica 2.38°N of Moon
08h First Quarter 395820 km



Wednesday Jul 22

[24.0° 14.4°]

[05:42 20:54 15h12m]



Thursday Jul 23

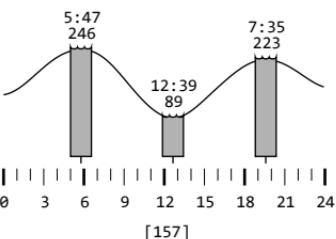
[24.1° 14.4°]
[05:43 20:53 15h10m]



Sco 240° 74%+ >0:56

P

A



Friday Jul 24

[24.0° 14.4°]
[05:44 20:52 15h08m]

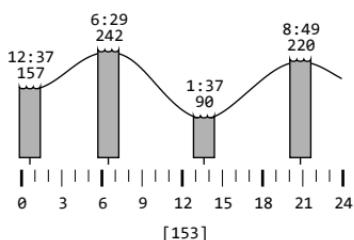
19h Antares 0.56° N of Moon



Sco 252° 82%+ >1:34

P

A



Saturday Jul 25

[24.0° 14.4°]
[05:45 20:51 15h06m]

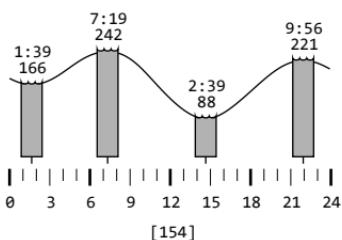
14h Moon at apogee 405534 km



Sgr 264° 88%+ >2:21

P

A



Sunday Jul 26

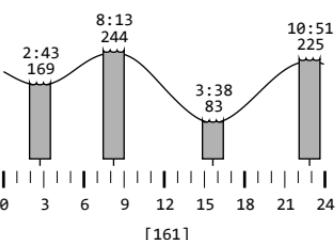
[24.0° 14.4°]
[05:46 20:50 15h03m]



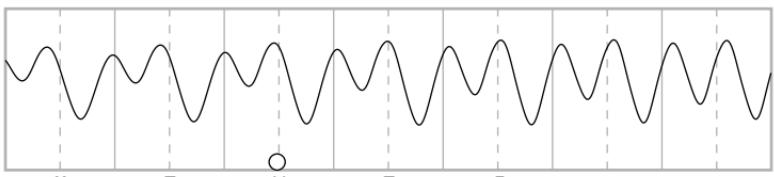
Sgr 276° 94%+ >3:18

P

A



July



0 60 50 40 30 20 10 E 10 Cancer

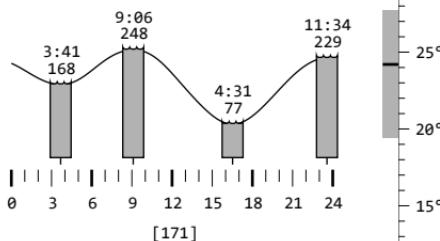
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Monday Jul 27

[24.2° 14.6°]

[05:48 20:49 15h01m]

Sgr 288° 98%+ >4:22
P —————— A

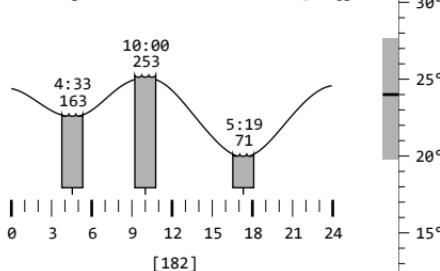


Tuesday Jul 28

[24.0° 14.6°]

[05:49 20:48 14h59m]

Cap 300° 100%+ >5:30
P —————— A



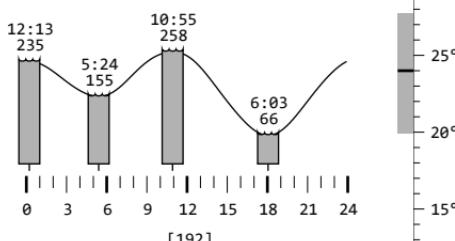
Wednesday Jul 29

[24.0° 14.7°]

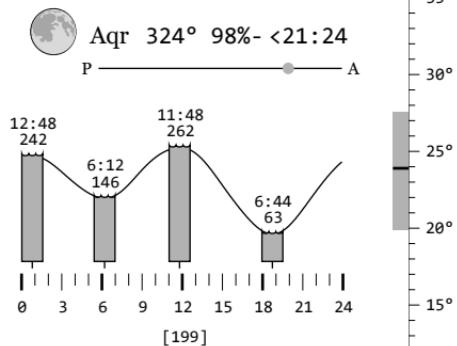
[05:50 20:46 14h56m]

09h Jupiter 0.47°N of Sun
12h Full Moon 399617 km

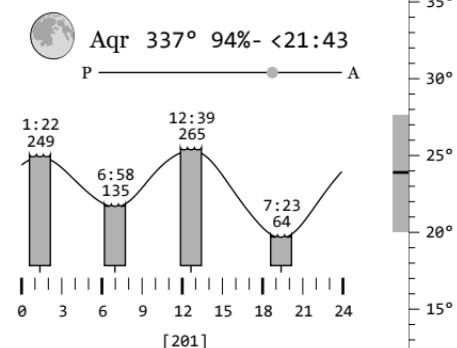
Cap 312° 100%-<21:04
P —————— A



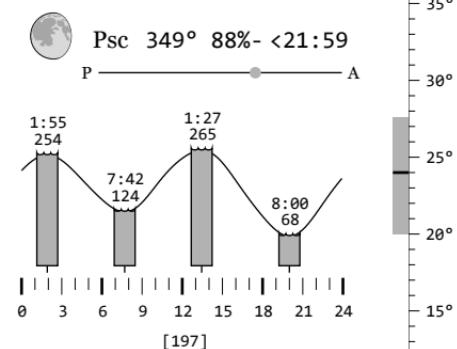
Thursday Jul 30
[23.9° 14.8°]
[05:51 20:45 14h54m]



Friday Jul 31
[23.9° 15.0°]
[05:52 20:44 14h51m]

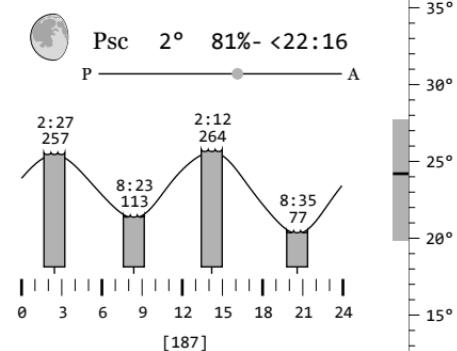


Saturday Aug 1
[24.0° 14.9°]
[05:53 20:43 14h49m]

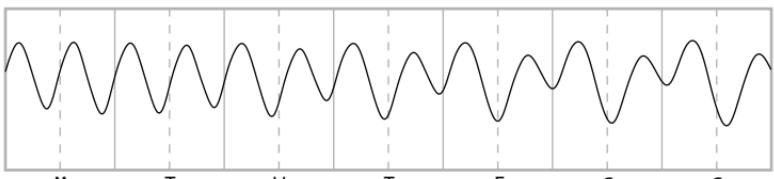


Sunday Aug 2
[24.2° 14.8°]
[05:55 20:41 14h46m]

05h Mercury at GE 19.5° W



August



60 50 40 30 20 10 E 10

Cancer

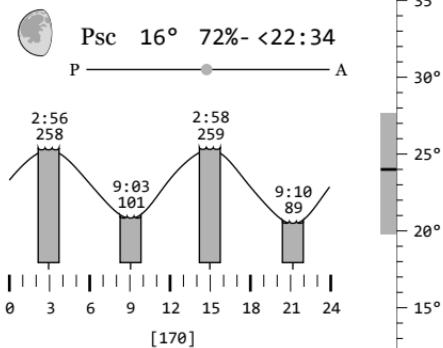
5 6 7 8 9 ☽ 13:18:32 60.6° 17 18 19 20 21

Monday Aug 3

[24.0° 14.7°]

[05:56 20:40 14h44m]

Civic Holiday

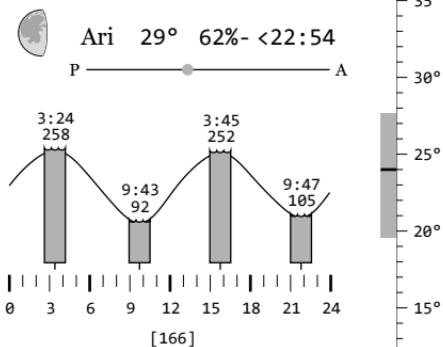


Tuesday Aug 4

[24.0° 15.0°]

[05:57 20:38 14h41m]

01h Saturn 6.96°S of Moon

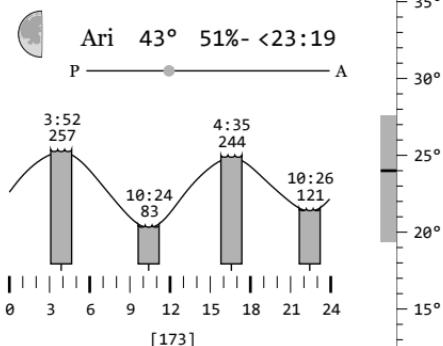


Wednesday Aug 5

[24.0° 15.0°]

[05:58 20:37 14h38m]

23h Last Quarter 373347 km

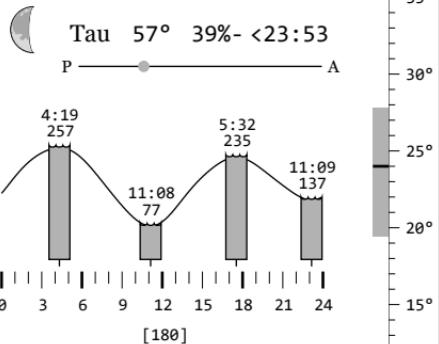


Thursday Aug 6

[24.0° 15.0°]

[05:59 20:36 14h36m]

01h Pollux 7.64° N of Mercury

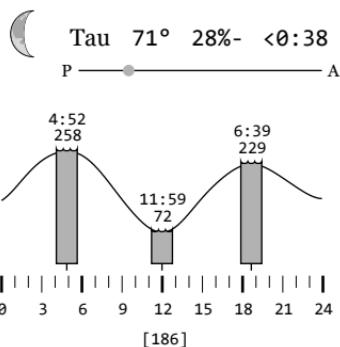


Friday Aug 7

[24.0° 15.0°]

[06:01 20:34 14h33m]

23h Aldebaran 10.72° S of Moon



Saturday Aug 8

[23.9° 14.9°]

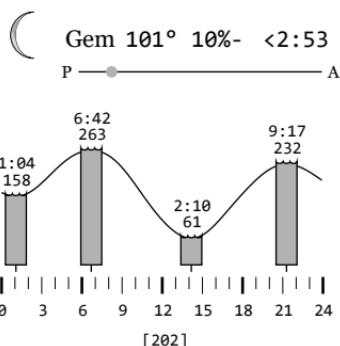
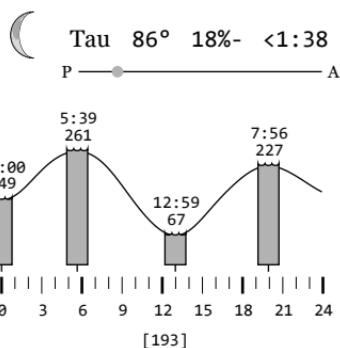
[06:02 20:33 14h30m]

Sunday Aug 9

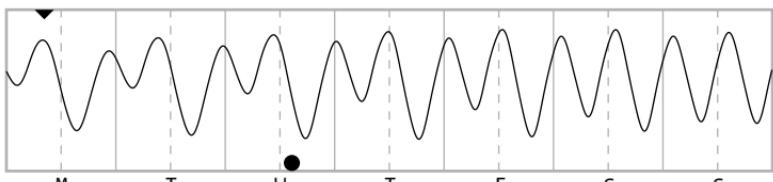
[23.8° 14.8°]

[06:03 20:31 14h27m]

03h Mars 4.41° S of Moon



August



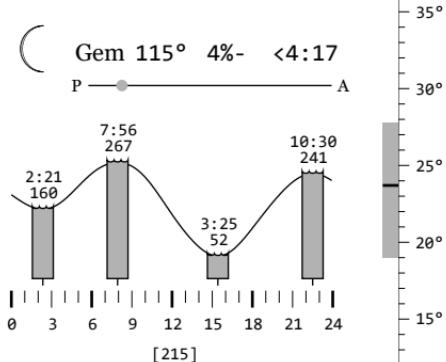
Leo

Monday Aug 10

[23.7° 14.8°]

[06:04 20:30 14h25m]

08h Moon at perigee 363303 km
20h Pollux 3.68°N of Moon

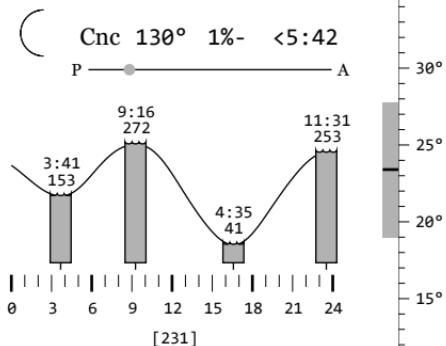


Tuesday Aug 11

[23.4° 14.5°]

[06:06 20:28 14h22m]

10h Mercury 2.10°S of Moon
20h Jupiter 1.43°S of Moon

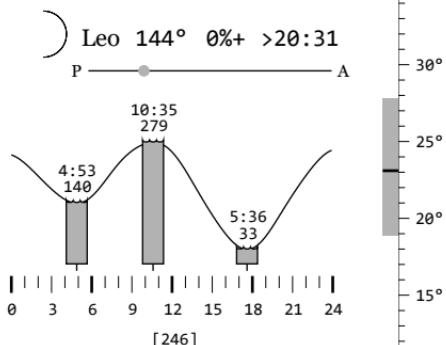


Wednesday Aug 12

[23.1° 14.4°]

[06:07 20:26 14h19m]

Solar Eclipse 46% 13h54
15h New Moon 366954 km



Thursday Aug 13

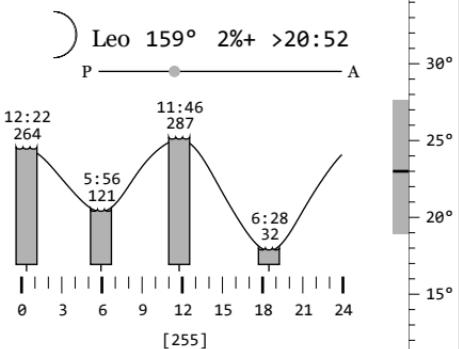
[23.0° 14.4°]

[06:08 20:25 14h16m]

Perseid Meteors Peak

08h Regulus 0.56°N of Moon

18:28 Lowest tide this month

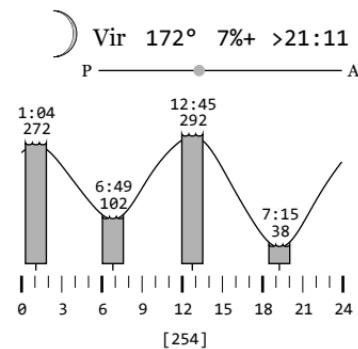


Friday Aug 14

[22.8° 14.4°]

[06:09 20:23 14h13m]

12:45 Highest tide this month

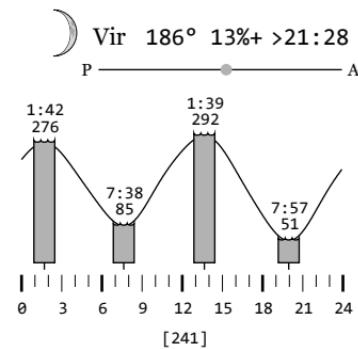


Saturday Aug 15

[22.8° 14.4°]

[06:11 20:21 14h10m]

04h Venus at GE 45.9° E
06h Jupiter 0.56°S of Mercury

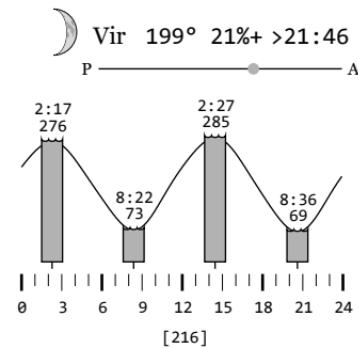


Sunday Aug 16

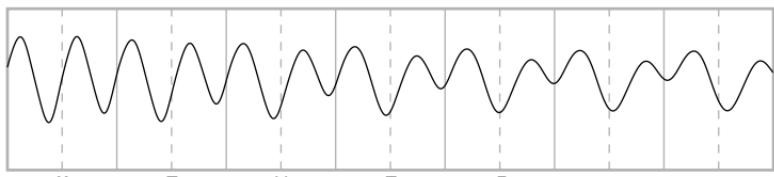
[22.7° 14.1°]

[06:12 20:20 14h07m]

06h Venus 2.07°N of Moon



August



0 50 40 30 20 10 E 10 20

Leo

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

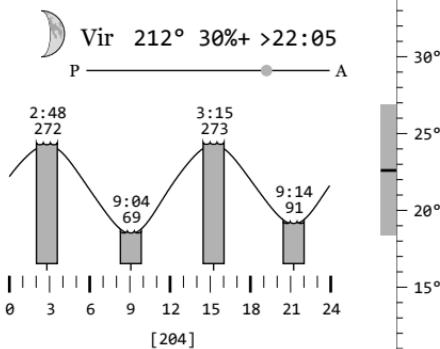
\odot 13:16:08 56.4°

Monday Aug 17

[22.6° 13.9°]

[06:13 20:18 14h04m]

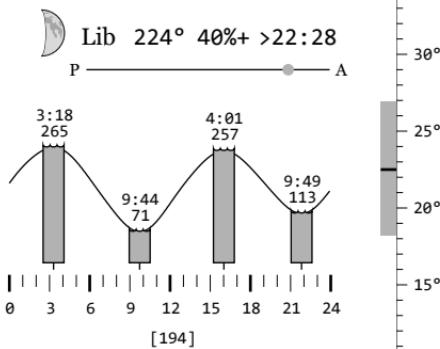
10h Spica 2.47°N of Moon



Tuesday Aug 18

[22.5° 13.4°]

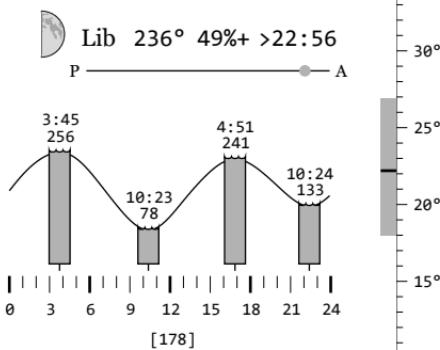
[06:14 20:16 14h01m]



Wednesday Aug 19

[22.2° 13.3°]

[06:16 20:15 13h58m]

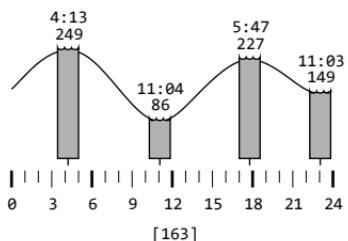


Thursday Aug 20

[22.2° 12.8°]
[06:17 20:13 13h55m]

ooh First Quarter 401570 km

 Sco 248° 59%+ >23:31
P ————— A



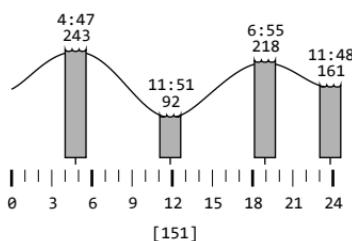
Friday Aug 21

[21.6° 12.5°]
[06:18 20:11 13h52m]

Gold Cup Parade

02h Antares 0.63°N of Moon

 Sco 260° 68%+ >0:14
P ————— A

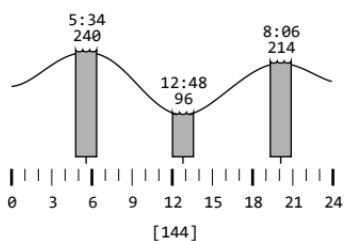


Saturday Aug 22

[21.4° 12.2°]
[06:20 20:09 13h49m]

05h Moon at apogee 404625 km

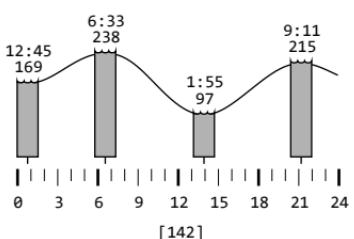
 Sgr 272° 76%+ >1:08
P ————— A



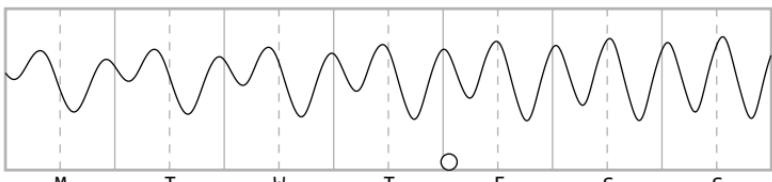
Sunday Aug 23

[21.4° 12.2°]
[06:21 20:08 13h46m]

 Sgr 284° 84%+ >2:09
P ————— A



August



50 40 30 20 10 E 10 20

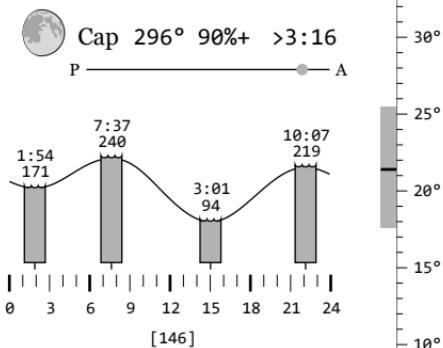
Leo

5 6 7 8 9 ☽ 13:14:18 54.0° 17 18 19 20 21

Monday Aug 24

[21.4° 12.2°]

[06:22 20:06 13h43m]

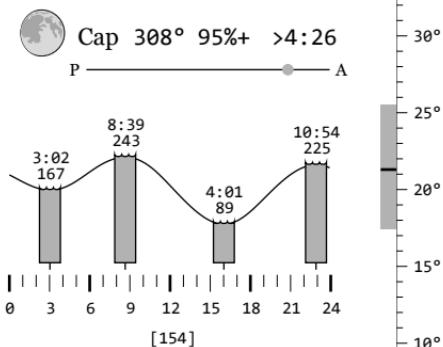


Tuesday Aug 25

[21.3° 12.2°]

[06:23 20:04 13h40m]

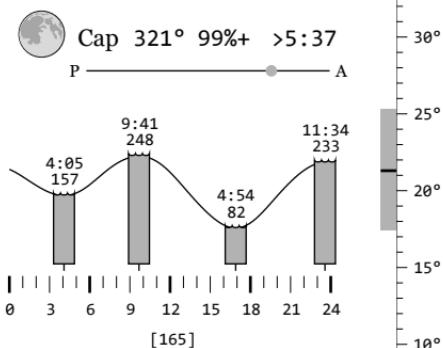
05h Regulus 1.39°S of Mercury



Wednesday Aug 26

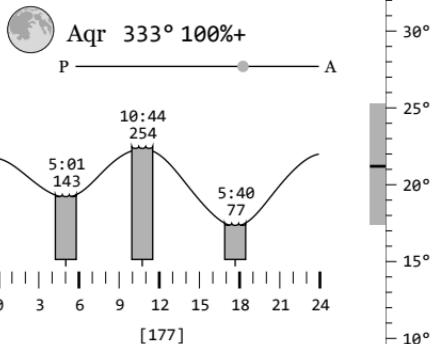
[21.3° 12.2°]

[06:25 20:02 13h37m]



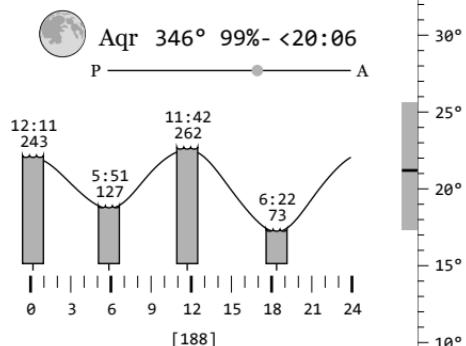
Thursday Aug 27
[21.2° 12.5°]
[06:26 20:00 13h34m]

Partial Lunar Eclipse
14h Mercury in SC 1.75° N

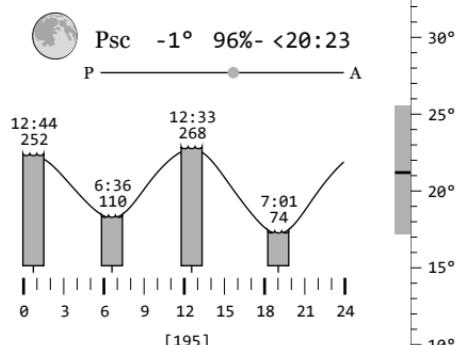


Friday Aug 28
[21.2° 12.4°]
[06:27 19:58 13h31m]

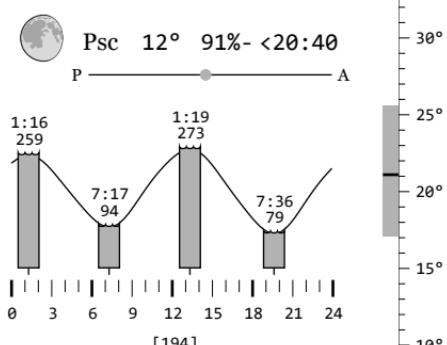
01h Full Moon 390397 km



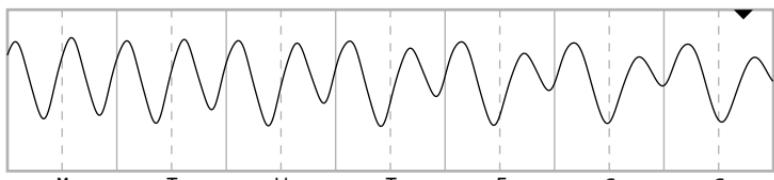
Saturday Aug 29
[21.2° 12.3°]
[06:28 19:57 13h28m]



Sunday Aug 30
[21.1° 12.2°]
[06:30 19:55 13h25m]



August



50 40 30 20 10 E 10 20 30 Leo

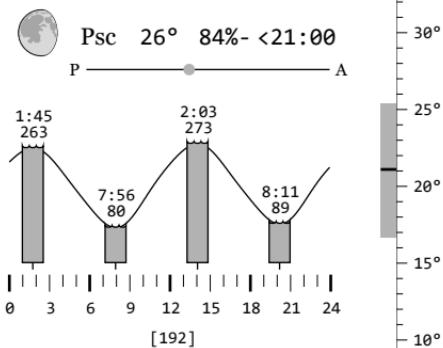
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Monday Aug 31

[21.1° 11.8°]

[06:31 19:53 13h22m]

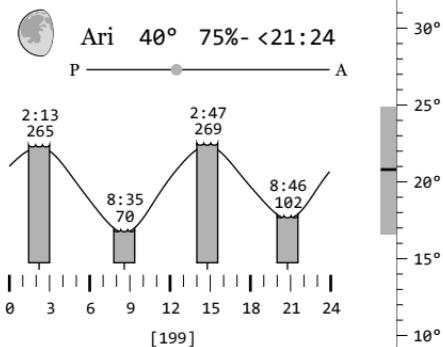
05h Saturn 7.04°S of Moon



Tuesday Sep 1

[20.8° 11.7°]

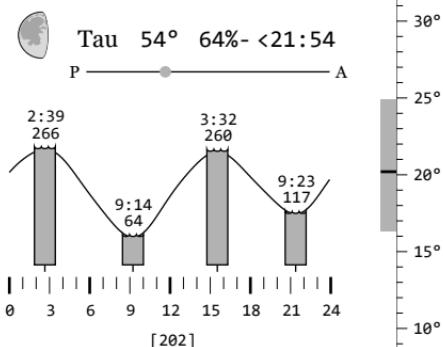
[06:32 19:51 13h18m]



Wednesday Sep 2

[20.2° 11.4°]

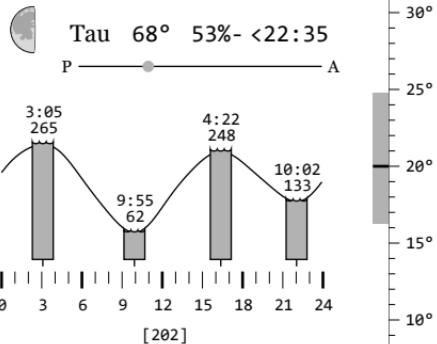
[06:33 19:49 13h15m]



Thursday Sep 3

[20.0° 11.1°]
[06:35 19:47 13h12m]

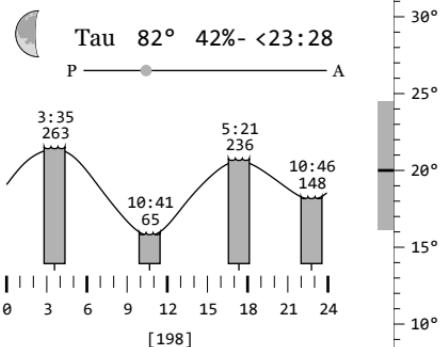
ooh Spica 1.73° N of Venus



Friday Sep 4

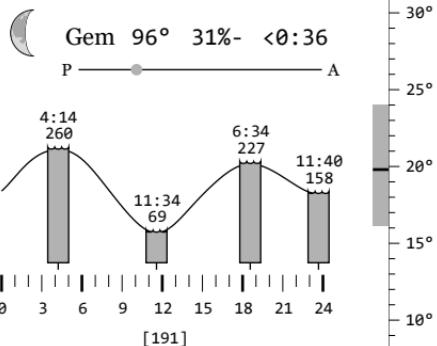
[20.0° 11.1°]
[06:36 19:45 13h09m]

05h Aldebaran 10.73° S of Moon
05h Last Quarter 370439 km



Saturday Sep 5

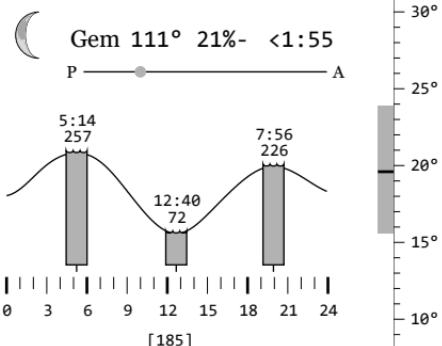
[19.8° 11.1°]
[06:37 19:43 13h06m]



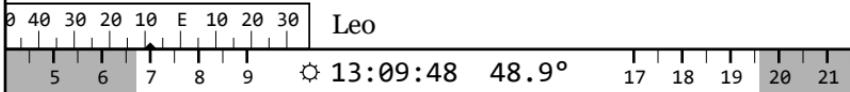
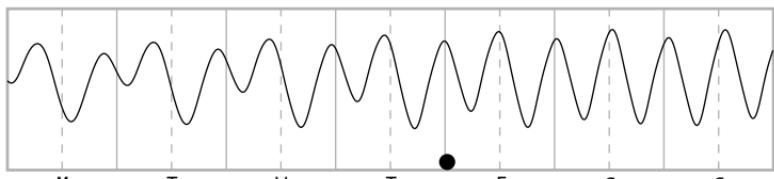
Sunday Sep 6

[19.6° 11.1°]
[06:38 19:41 13h02m]

15h Mars 3.01° S of Moon
18h Moon at perigee 368270 km



September



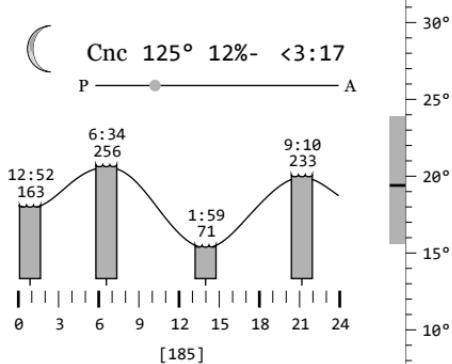
Monday Sep 7

[19.4° 10.7°]

[06:40 19:39 12h59m]

Labour Day

04h Pollux 3.68°N of Moon

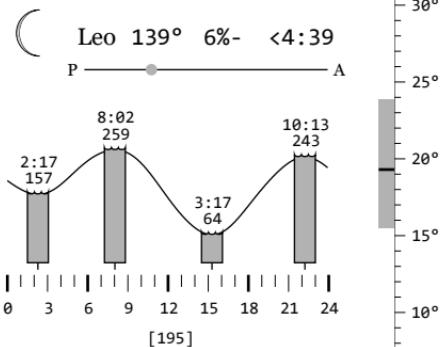


Tuesday Sep 8

[19.3° 10.6°]

[06:41 19:38 12h56m]

15h Jupiter 0.84°S of Moon

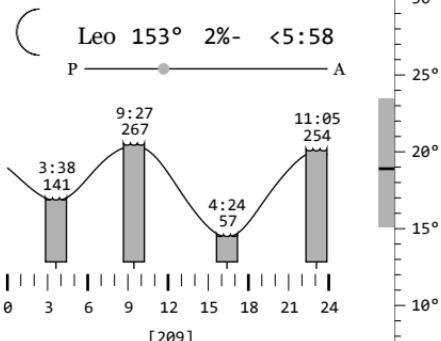


Wednesday Sep 9

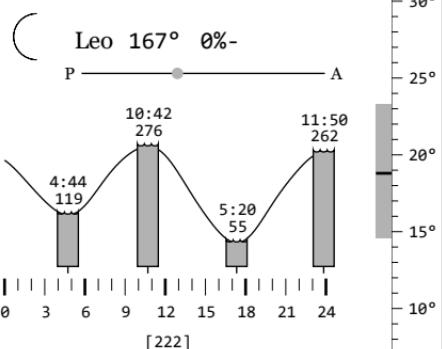
[18.9° 10.3°]

[06:42 19:36 12h53m]

17h Regulus 0.55°N of Moon

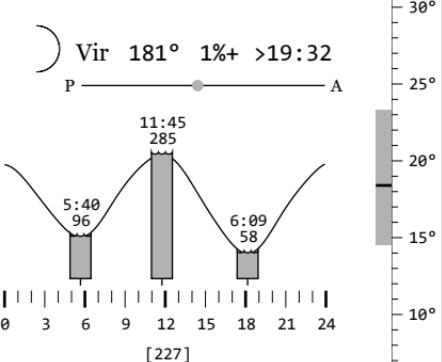


Thursday Sep 10
[18.8° 10.0°]
[06:43 19:34 12h50m]



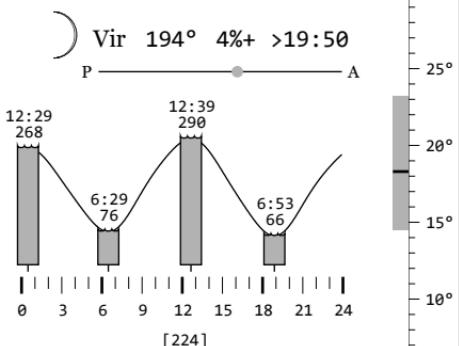
Friday Sep 11
[18.4° 10.0°]
[06:45 19:32 12h46m]

ooh New Moon 376650 km



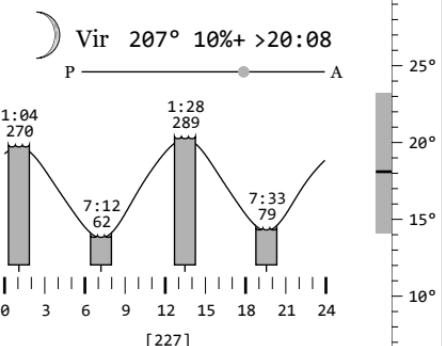
Saturday Sep 12
[18.3° 9.8°]
[06:46 19:30 12h43m]

04h Mercury 3.85° N of Moon
12:39 Highest tide this month

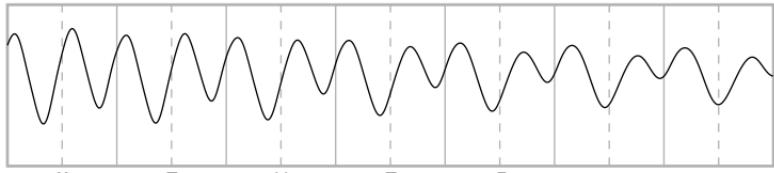


Sunday Sep 13
[18.1° 9.4°]
[06:47 19:28 12h40m]

19h Spica 2.43° N of Moon



September



40 30 20 10 E 10 20 30

Virgo

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

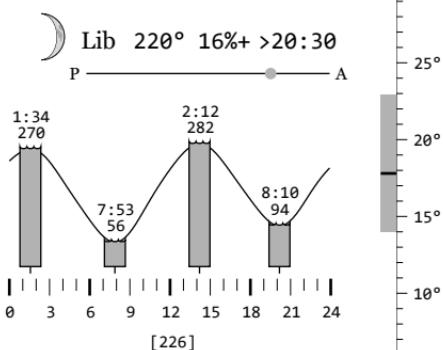
\odot 13:07:20 46.2°

Monday Sep 14

[17.8° 9.1°]

[06:48 19:26 12h37m]

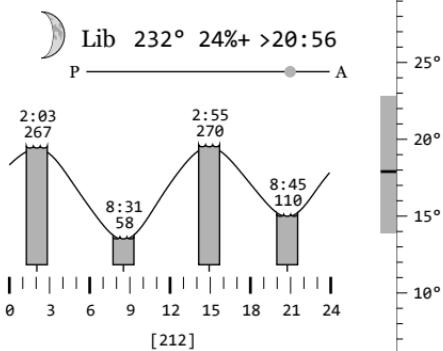
08h Venus 0.52°S of Moon



Tuesday Sep 15

[17.9° 8.9°]

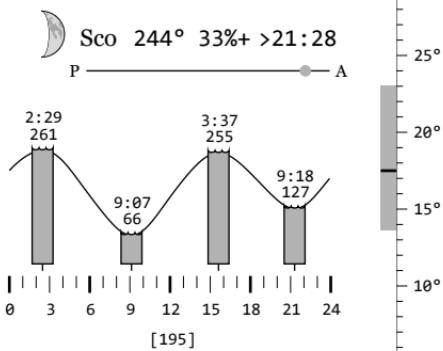
[06:50 19:24 12h34m]



Wednesday Sep 16

[17.5° 8.9°]

[06:51 19:22 12h30m]



Thursday Sep 17

[17.3° 8.9°]

[06:52 19:20 12h27m]

10h Antares 0.57° N of Moon

 Sco 256° 42%+ >22:08

P

A

2:54
254
9:42
76
4:22
240
9:51
143

0 3 6 9 12 15 18 21 24
[178]

25°
20°
15°
10°
5°

Friday Sep 18

[17.6° 8.9°]

[06:54 19:18 12h24m]

18h First Quarter 404176 km

 Sgr 268° 52%+ >22:57

P

A

3:18
248
10:19
86
5:13
226
10:25
155

0 3 6 9 12 15 18 21 24
[162]

25°
20°
15°
10°
5°

Saturday Sep 19

[17.2° 8.7°]

[06:55 19:16 12h21m]

ooh Moon at apogee 404203 km
01h Pollux 5.96° N of Mars

 Sgr 280° 61%+ >23:56

P

A

3:50
242
11:02
95
6:16
218
11:07
164

0 3 6 9 12 15 18 21 24
[148]

25°
20°
15°
10°
5°

Sunday Sep 20

[17.3° 8.6°]

[06:56 19:14 12h17m]

 Sgr 292° 70%+ >1:01

P

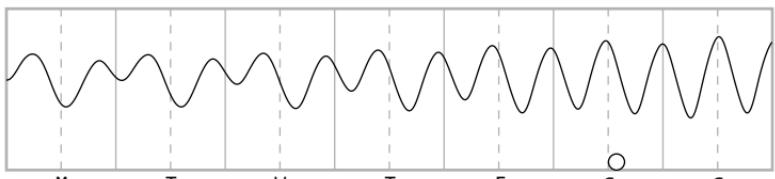
A

4:35
237
11:56
102
7:22
215

0 3 6 9 12 15 18 21 24
[135]

25°
20°
15°
10°
5°

September



10 30 20 10 E 10 20 30 40

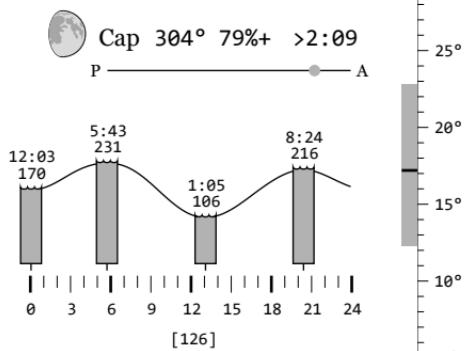
Virgo

5 6 7 8 9 ☀ 13:04:51 43.5° 17 18 19 20 21

Monday Sep 21

[17.2° 8.3°]

[06:57 19:12 12h14m]

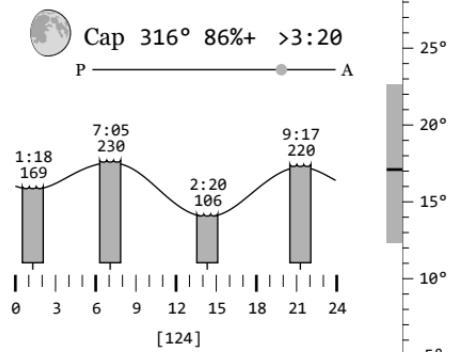


Tuesday Sep 22

[17.1° 8.1°]

[06:59 19:10 12h11m]

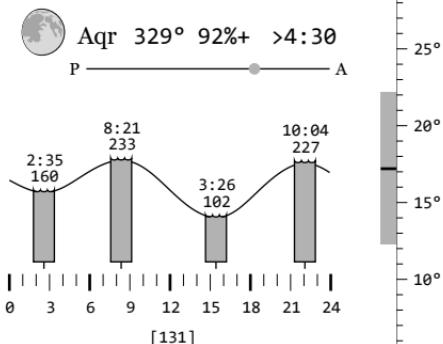
21h Equinox



Wednesday Sep 23

[17.2° 7.9°]

[07:00 19:08 12h08m]



Thursday Sep 24

[16.8° 7.8°]

[07:01 19:06 12h04m]

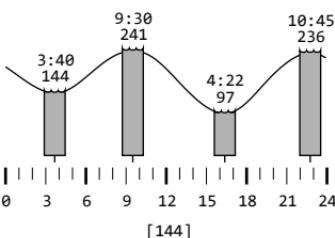


Aqr 342° 97%+ >5:42

P

—

A



Friday Sep 25

[16.7° 7.8°]

[07:02 19:04 12h01m]

22h Spica 0.99° S of Mercury

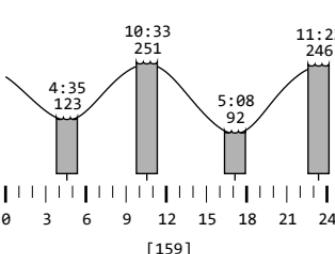


Psc 355° 99%+ >6:55

P

—

A



Saturday Sep 26

[16.6° 7.7°]

[07:04 19:02 11h58m]

14h Full Moon 379435 km

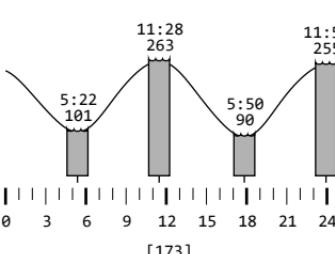


Psc 8° 100%-

P

—

A



Sunday Sep 27

[16.3° 7.2°]

[07:05 19:00 11h55m]

09h Saturn 6.93° S of Moon

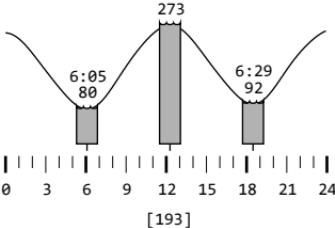


Psc 22° 98%- <19:05

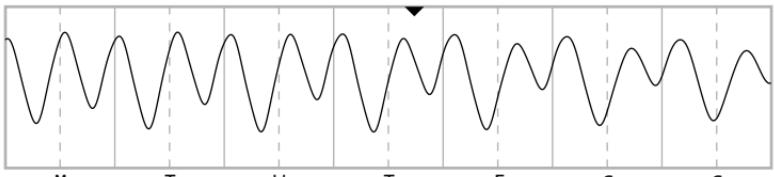
P

—

A



September



30 20 10 E 10 20 30 40

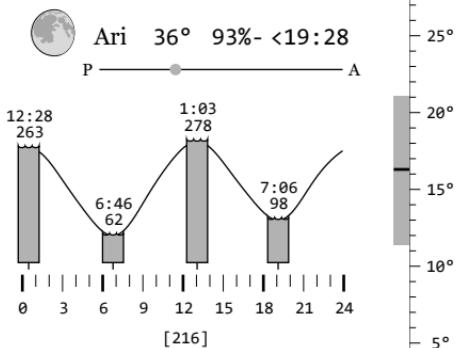
Virgo

5 6 7 8 9 ☽ 13:02:27 40.8° 17 18 19 20 21

Monday Sep 28

[16.3° 7.1°]

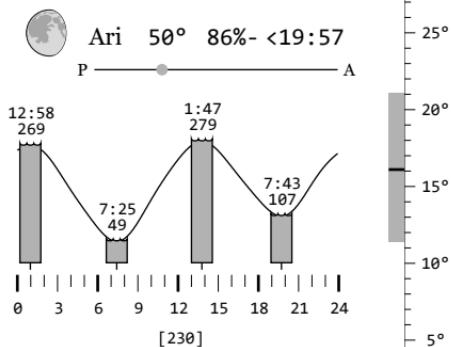
[07:06 18:58 11h51m]



Tuesday Sep 29

[16.1° 7.2°]

[07:08 18:56 11h48m]

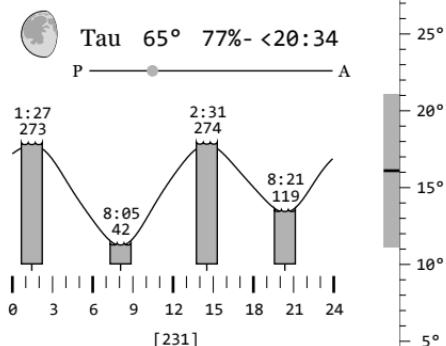


Wednesday Sep 30

[16.1° 7.2°]

[07:09 18:54 11h45m]

Truth and Reconciliation
08:05 Lowest tide this month



Thursday Oct 1

[15.6° 6.9°]

[07:10 18:52 11h42m]

10h Aldebaran 10.62° S of Moon
18h Moon at perigee 369343 km



Tau 79° 67%- <21:24

P

A

1:58
274

3:19
264

9:01
131

8:47
42

0 3 6 9 12 15 18 21 24

[233]

25°

20°

10°

5°

Friday Oct 2

[15.2° 6.7°]

[07:12 18:50 11h38m]



Gem 93° 56%- <22:28

P

A

2:31
273

4:14
251

9:45
143

9:31
47

0 3 6 9 12 15 18 21 24

[225]

25°

20°

10°

5°

Saturday Oct 3

[14.9° 6.4°]

[07:13 18:48 11h35m]

10h Last Quarter 370143 km



Gem 107° 44%- <23:43

P

A

3:10
268

5:19
240

10:35
152

10:21
57

0 3 6 9 12 15 18 21 24

[211]

25°

20°

10°

5°

Sunday Oct 4

[14.6° 6.2°]

[07:14 18:46 11h32m]

09h Saturn at opposition
10h Pollux 3.79° N of Moon



Cnc 121° 33%- <1:03

P

A

4:02
261

6:33
235

11:37
157

11:18
68

0 3 6 9 12 15 18 21 24

[192]

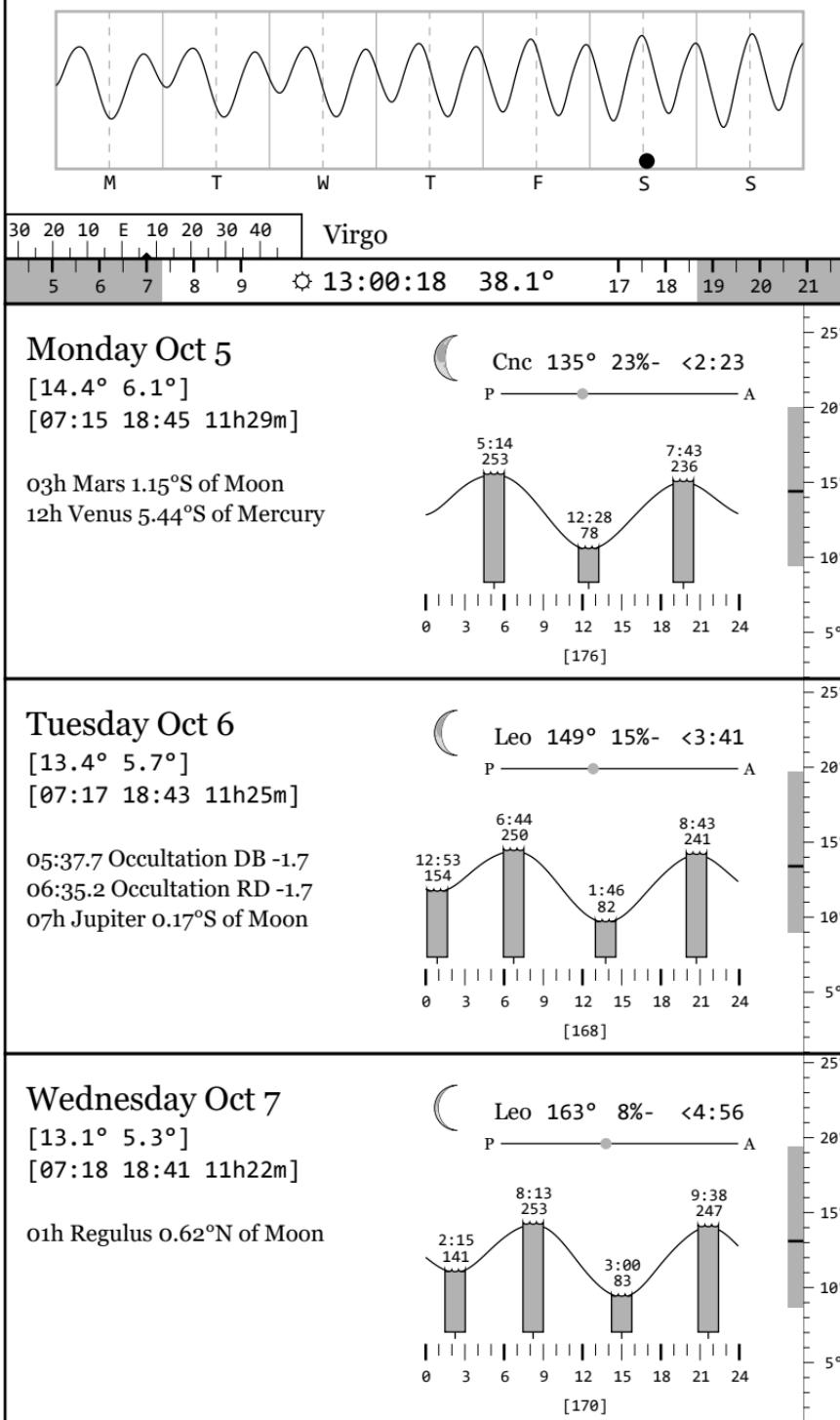
25°

20°

10°

5°

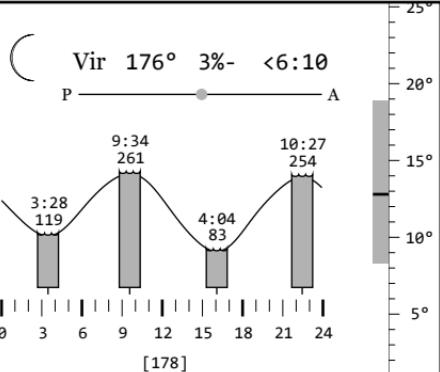
October



Thursday Oct 8

[12.8° 5.1°]

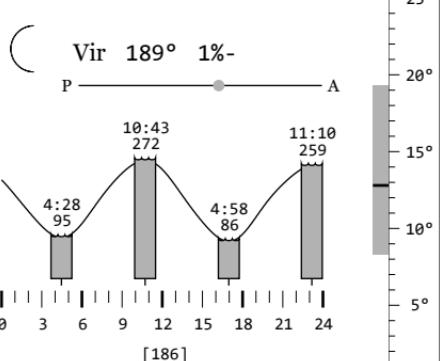
[07:19 18:39 11h19m]



Friday Oct 9

[12.8° 5.0°]

[07:21 18:37 11h16m]

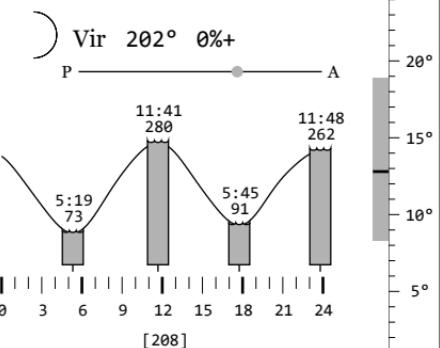


Saturday Oct 10

[12.8° 4.9°]

[07:22 18:35 11h13m]

13h New Moon 387640 km

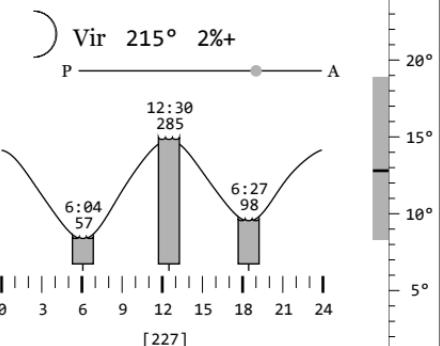


Sunday Oct 11

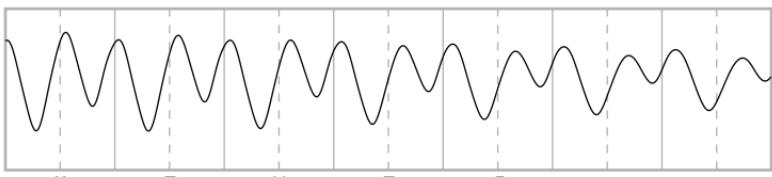
[12.8° 4.4°]

[07:23 18:33 11h09m]

03h Spica 2.36°N of Moon



October



0 20 10 E 10 20 30 40 50

Virgo

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Monday Oct 12

[12.8° 4.3°]

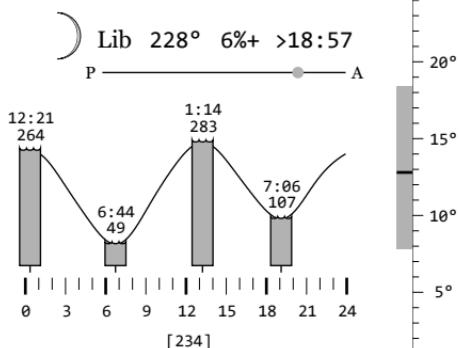
[07:25 18:31 11h06m]

Thanksgiving

ooh Venus 3.05°S of Moon

07h Mercury at GE 25.2° E

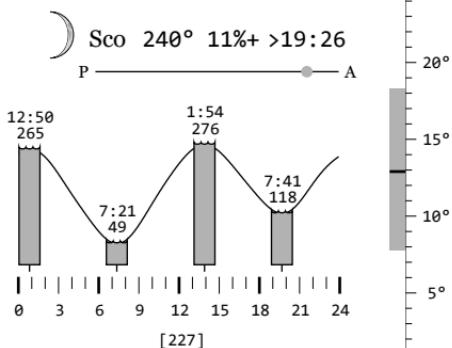
17h Mercury 2.13°N of Moon



Tuesday Oct 13

[12.9° 4.1°]

[07:26 18:30 11h03m]

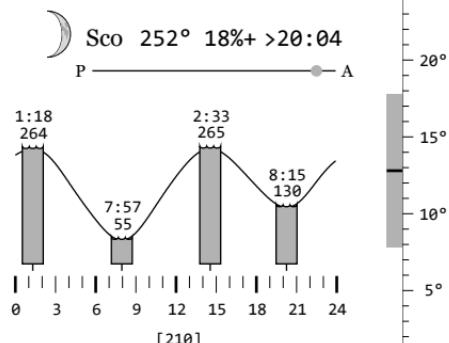


Wednesday Oct 14

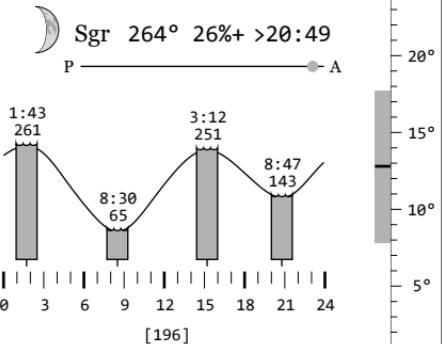
[12.8° 4.0°]

[07:28 18:28 11h00m]

18h Antares 0.42°N of Moon

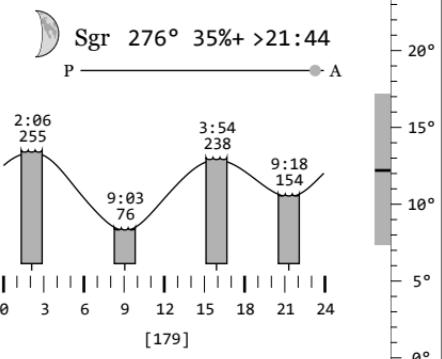


Thursday Oct 15
[12.8° 3.9°]
[07:29 18:26 10h57m]

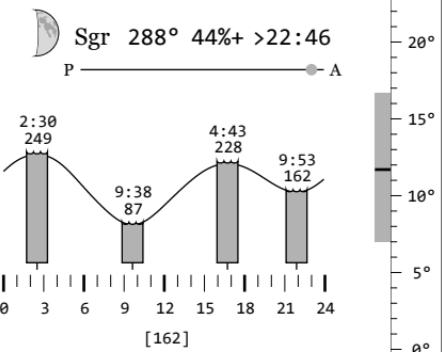


Friday Oct 16
[12.2° 3.9°]
[07:30 18:24 10h53m]

20h Moon at apogee 404625 km

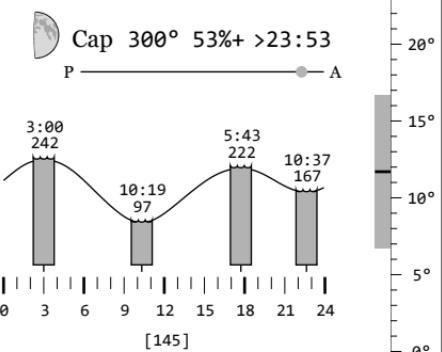


Saturday Oct 17
[11.7° 3.6°]
[07:32 18:22 10h50m]

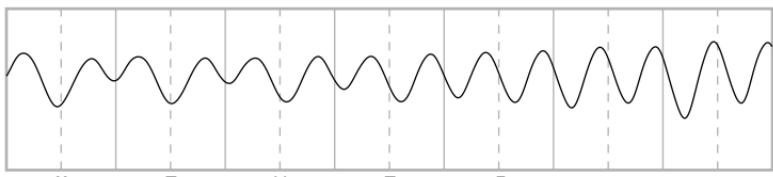


Sunday Oct 18
[11.7° 3.6°]
[07:33 18:21 10h47m]

13h First Quarter 402751 km



October



20 10 E 10 20 30 40 50

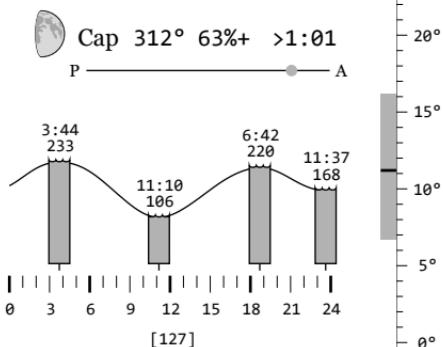
Virgo

5 6 7 8 9 12:57:08 32.9° 17 18 19 20 21

Monday Oct 19

[11.2° 3.3°]

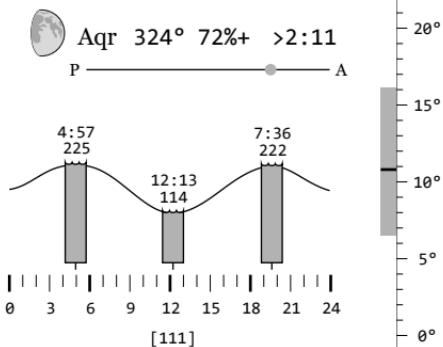
[07:34 18:19 10h44m]



Tuesday Oct 20

[10.8° 3.3°]

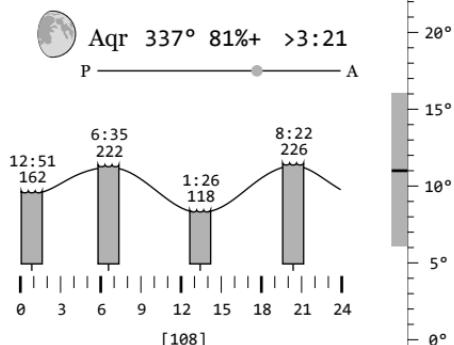
[07:36 18:17 10h41m]



Wednesday Oct 21

[11.0° 3.2°]

[07:37 18:15 10h38m]



Thursday Oct 22

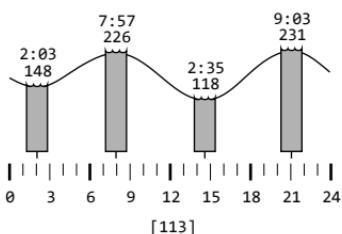
[10.6° 3.2°]

[07:39 18:14 10h35m]



Psc 350° 88%+ >4:32

P



Friday Oct 23

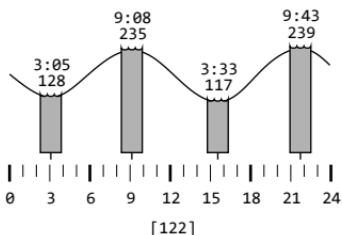
[10.5° 3.2°]

[07:40 18:12 10h32m]



Psc 3° 94%+ >5:47

P



Saturday Oct 24

[10.6° 2.8°]

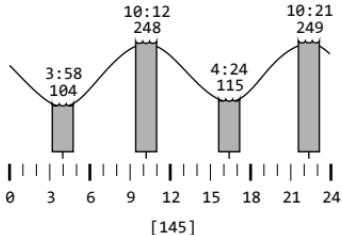
[07:41 18:10 10h29m]

01h Venus in IC 6.51° S
15h Saturn 6.80° S of Moon



Psc 17° 98%+ >7:04

P



Sunday Oct 25

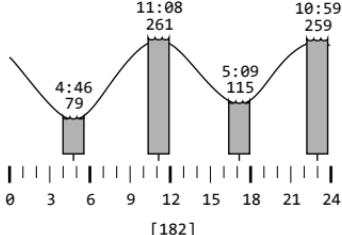
[10.4° 2.8°]

[07:43 18:09 10h25m]

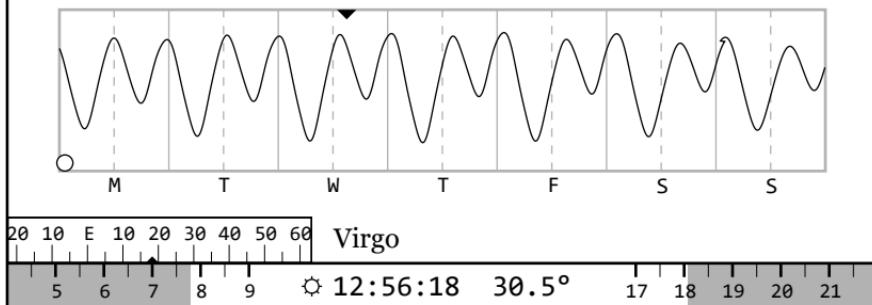


Ari 31° 100%+

P



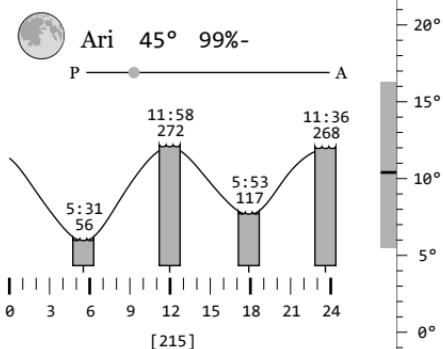
October



Monday Oct 26

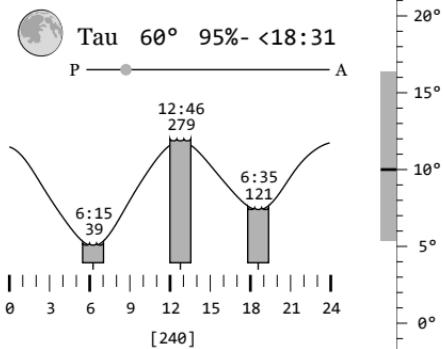
[10.4° 2.6°] [$07:44$ $18:07$ $10h22m$]

01h Full Moon 368872 km



Tuesday Oct 27

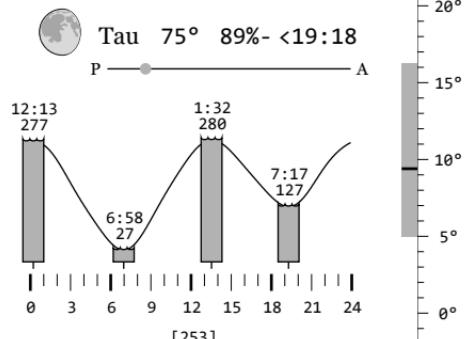
[10.0° 2.0°] [$07:46$ $18:06$ $10h19m$]



Wednesday Oct 28

[9.4° 1.8°] [$07:47$ $18:04$ $10h16m$]

15h Moon at perigee 364425 km
17h Aldebaran 10.45° S of Moon

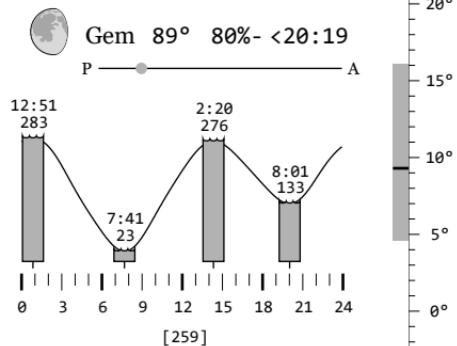


Thursday Oct 29

[9.3° 1.7°]

[07:48 18:02 10h13m]

07:41 Lowest tide this month

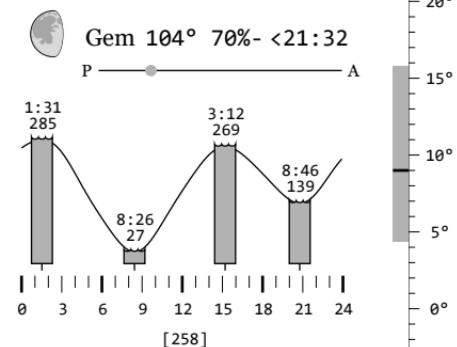


Friday Oct 30

[9.0° 1.6°]

[07:50 18:01 10h10m]

01:31 Highest tide this month



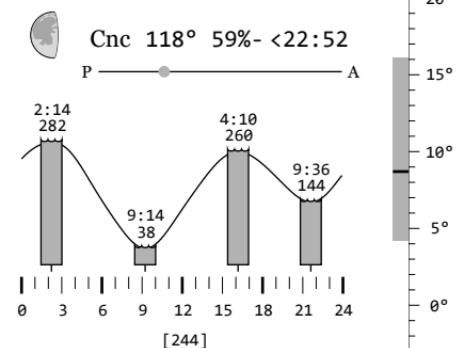
Saturday Oct 31

[8.7° 1.5°]

[07:51 17:59 10h08m]

Halloween

16h Pollux 4.02°N of Moon

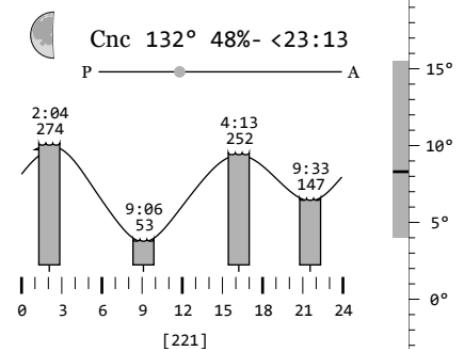


Sunday Nov 1

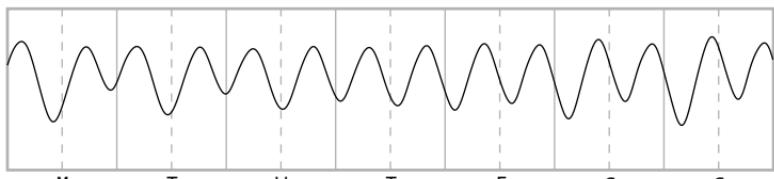
[8.3° 1.3°]

[06:53 16:58 10h05m]

02h CLOCKS FALL BACK
16h Last Quarter 372614 km



November



0 10 E 10 20 30 40 50 60

Libra

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

\odot 11:56:06

28.3°

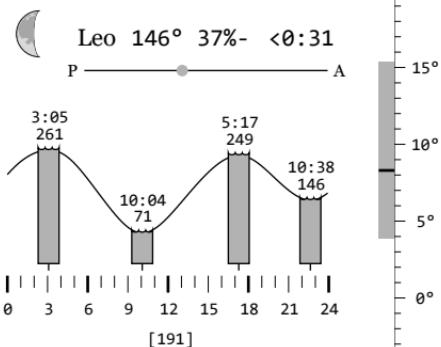
16 17 18 19 20

Monday Nov 2

[8.3° 1.1°]

[06:54 16:56 10h02m]

10h Mars 1.05°N of Moon
19h Jupiter 0.53°N of Moon

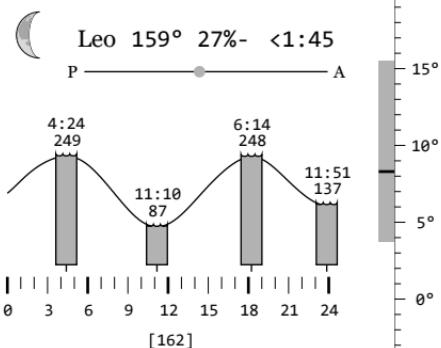


Tuesday Nov 3

[8.3° 1.0°]

[06:56 16:55 09h59m]

05h Regulus 0.83°N of Moon
09h Spica 2.35°N of Venus

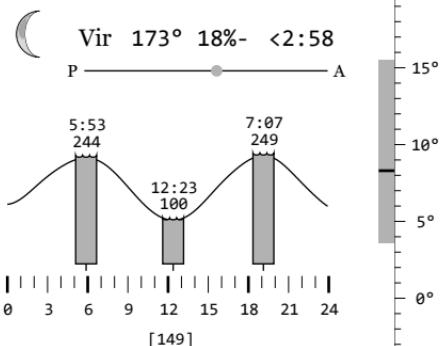


Wednesday Nov 4

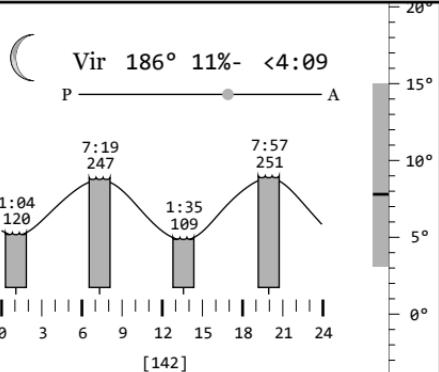
[8.3° 0.8°]

[06:57 16:54 09h56m]

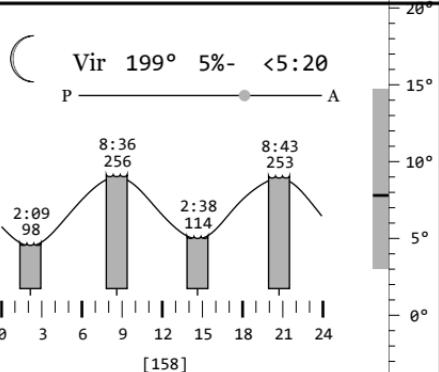
10h Mercury in IC 0.37°S



Thursday Nov 5
[7.8° 0.6°]
[06:59 16:52 09h53m]

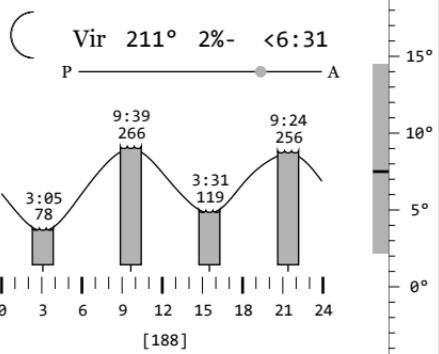


Friday Nov 6
[7.8° 0.6°]
[07:00 16:51 09h50m]



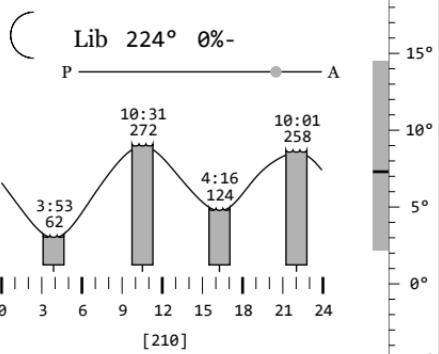
Saturday Nov 7
[7.5° 0.5°]
[07:01 16:50 09h48m]

08h Venus 1.06°N of Moon
09h Spica 2.39°N of Moon

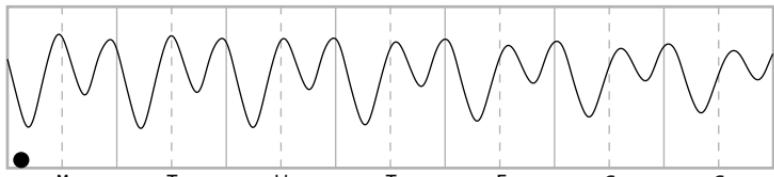


Sunday Nov 8
[7.3° 0.3°]
[07:03 16:48 09h45m]

13h Mercury 6.08°N of Moon



November



10 E 10 20 30 40 50 60

Libra

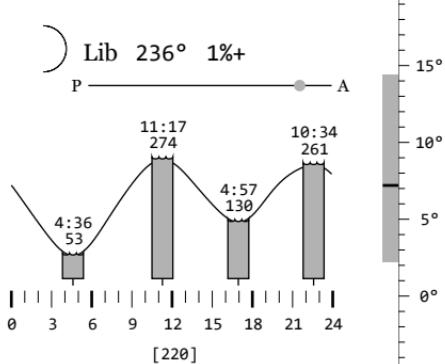
4 5 6 7 8 ☽ 11:56:34 26.2° 16 17 18 19 20

Monday Nov 9

[7.2° 0.1°]

[07:04 16:47 09h42m]

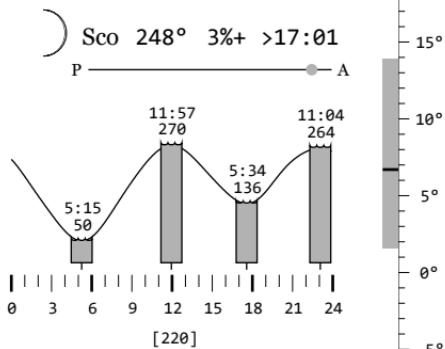
03h New Moon 397771 km



Tuesday Nov 10

[6.7° 0.0°]

[07:06 16:46 09h40m]

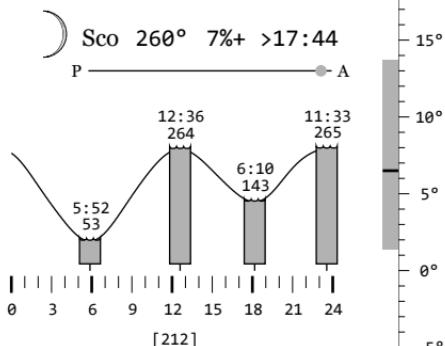


Wednesday Nov 11

[6.5° 0.0°]

[07:07 16:45 09h37m]

Remembrance Day
01h Antares 0.27°N of Moon

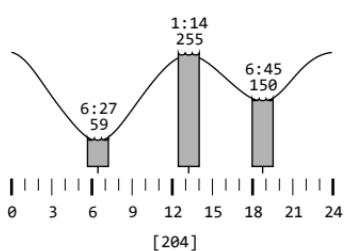


Thursday Nov 12

[6.1° 0.0°]

[07:09 16:43 09h34m]

Sgr 272° 13%+ >18:36
P ————— A



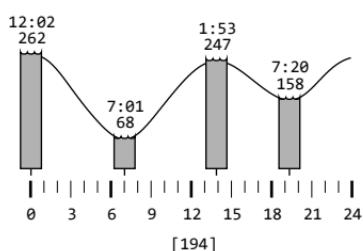
Friday Nov 13

[6.1° -0.3°]

[07:10 16:42 09h32m]

14h Moon at apogee 405605 km

Sgr 284° 20%+ >19:35
P ————— A



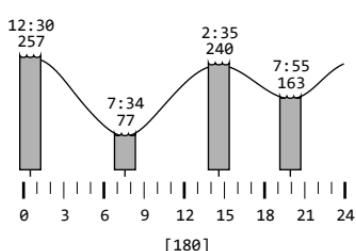
Saturday Nov 14

[5.9° -0.6°]

[07:11 16:41 09h29m]

23h Jupiter 1.25°S of Mars

Cap 296° 27%+ >20:40
P ————— A

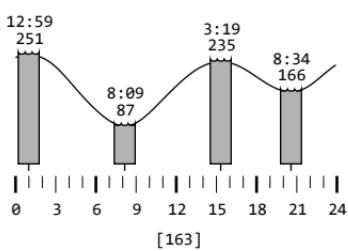


Sunday Nov 15

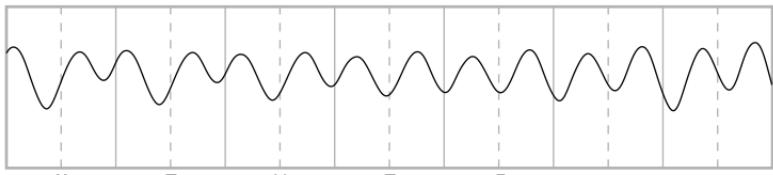
[5.6° -0.6°]

[07:13 16:40 09h27m]

Cap 308° 36%+ >21:47
P ————— A



November



10 E 10 20 30 40 50 60

Libra

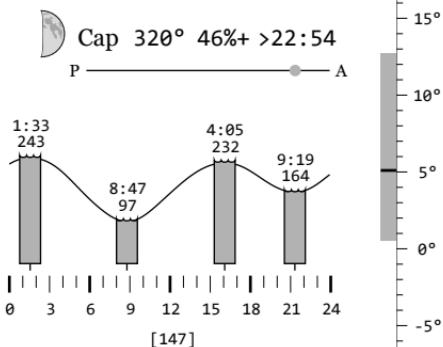
4 5 6 7 8 ☽ 11:57:44 24.4° 16 17 18 19 20

Monday Nov 16

[5.1° -1.1°]

[07:14 16:39 09h24m]

17:43.6 Occultation DD 4.3

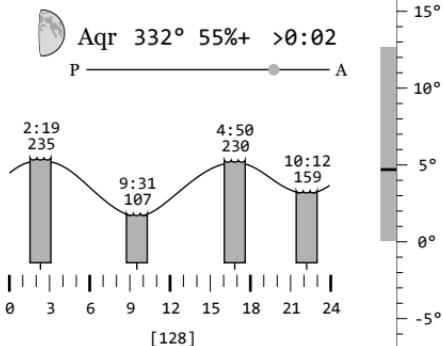


Tuesday Nov 17

[4.7° -1.3°]

[07:16 16:38 09h22m]

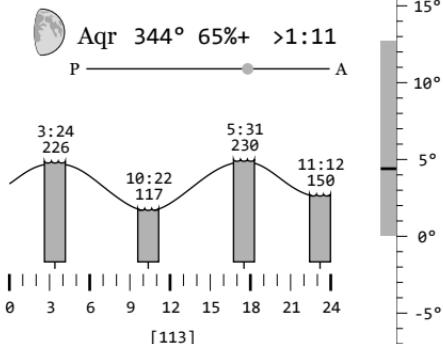
08h First Quarter 397518 km
19:20.3 Occultation DD 5.4



Wednesday Nov 18

[4.4° -1.4°]

[07:17 16:37 09h19m]



Thursday Nov 19

[4.3° -1.6°]

[07:18 16:36 09h17m]

19h Spica 1.80° S of Venus

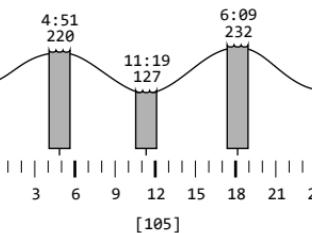


Psc -3° 75%+ >2:22

P

15°

— A —



Friday Nov 20

[4.1° -2.0°]

[07:20 16:35 09h15m]

20h Mercury at GE 19.6° W

21h Saturn 6.79° S of Moon

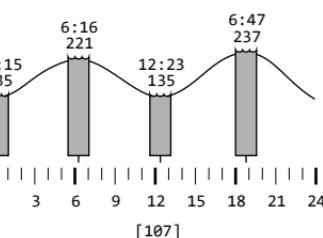


Psc 11° 83%+ >3:36

P

15°

10°



Saturday Nov 21

[4.0° -2.2°]

[07:21 16:34 09h13m]

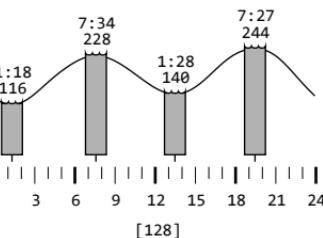


Psc 25° 91%+ >4:55

P

15°

10°



Sunday Nov 22

[3.6° -2.2°]

[07:22 16:34 09h11m]

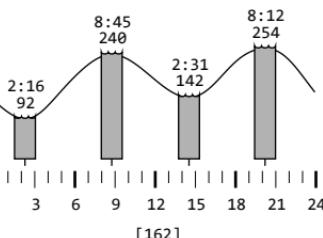


Ari 39° 96%+ >6:18

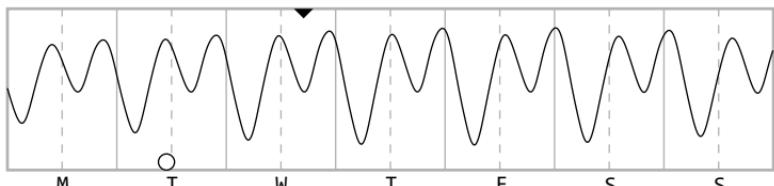
P

15°

10°



November



0 E 10 20 30 40 50 60 70

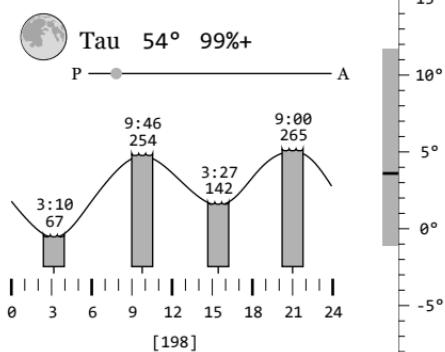
Scorpius

4 5 6 7 8 ☐ 11:59:33 22.9° 16 17 18 19 20

Monday Nov 23

[3.6° -2.2°]

[07:24 16:33 09h08m]

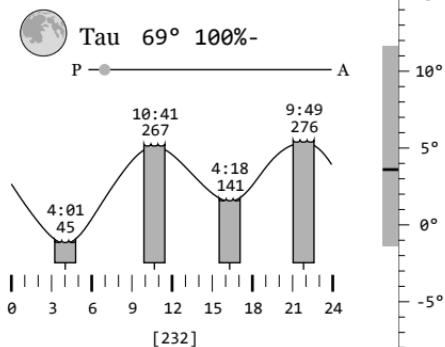


Tuesday Nov 24

[3.6° -2.2°]

[07:25 16:32 09h06m]

11h Full Moon 360765 km
18h Regulus 1.80°S of Mars

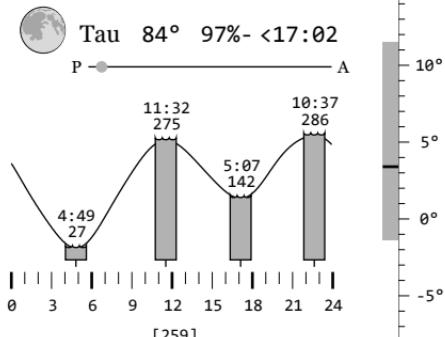


Wednesday Nov 25

[3.4° -2.2°]

[07:26 16:31 09h04m]

02h Aldebaran 10.35°S of Moon
17h Moon at perigee 359372 km



Thursday Nov 26

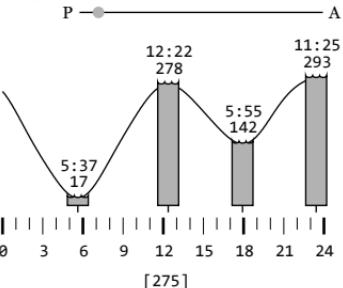
[3.3° -2.4°]
[07:28 16:31 09h02m]

US Thanksgiving



Gem 99° 91%- <18:14

P



Friday Nov 27

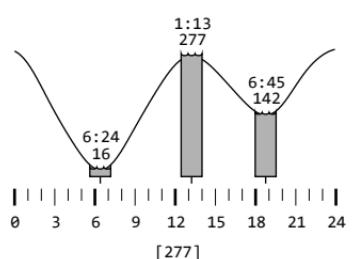
[3.3° -2.4°]
[07:29 16:30 09h01m]

06:24 Lowest tide this month
22h Pollux 4.27°N of Moon



Gem 114° 83%- <19:35

P



Saturday Nov 28

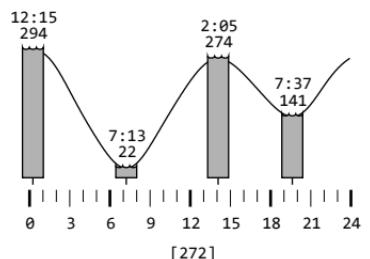
[3.3° -2.6°]
[07:30 16:30 08h59m]

00:15 Highest tide this month



Cnc 128° 74%- <20:58

P



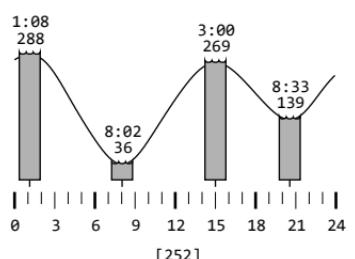
Sunday Nov 29

[3.3° -2.8°]
[07:31 16:29 08h57m]

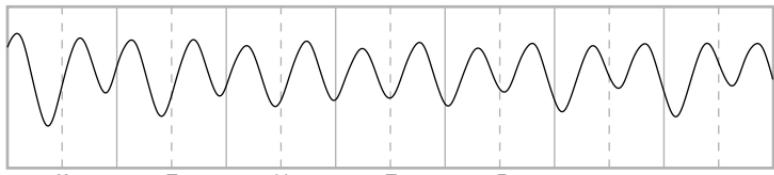


Leo 142° 63%- <22:19

P



November



0 E 10 20 30 40 50 60 70

Scorpius

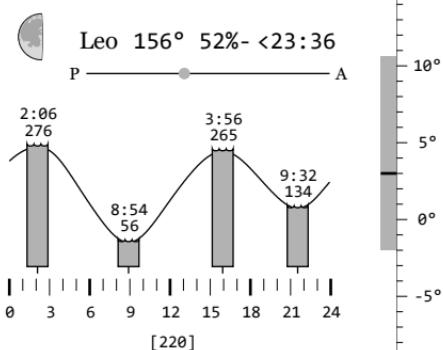
4 5 6 7 8 ☽ 12:01:59 21.7° 16 17 18 19 20

Monday Nov 30

[3.0° - 3.0°]

[07:33 16:28 08h55m]

05h Jupiter 1.16° N of Moon
 11h Regulus 1.13° N of Moon
 16h Mars 3.34° N of Moon

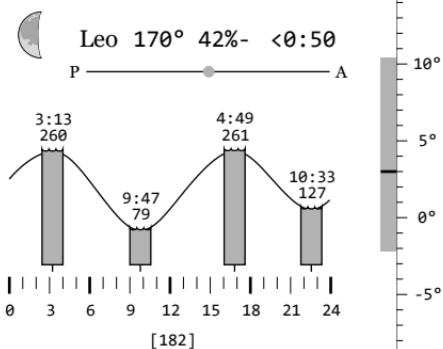


Tuesday Dec 1

[3.0° - 3.3°]

[07:34 16:28 08h54m]

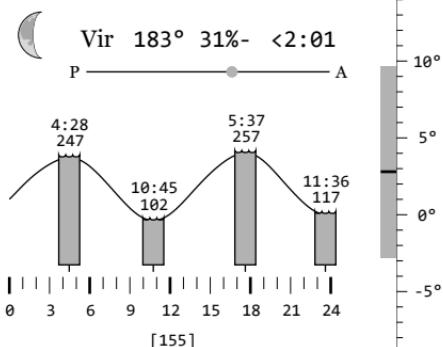
02h Last Quarter 377770 km



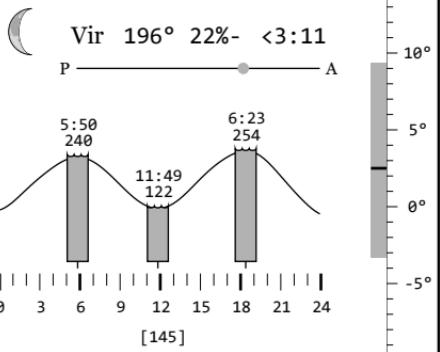
Wednesday Dec 2

[2.8° - 3.5°]

[07:35 16:28 08h52m]

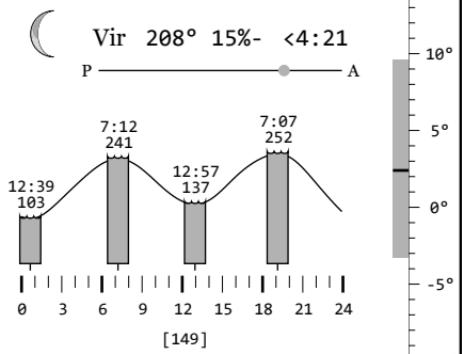


Thursday Dec 3
[2.5° -3.9°]
[07:36 16:27 08h51m]



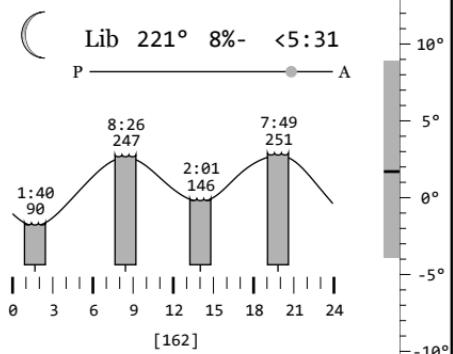
Friday Dec 4
[2.4° -4.0°]
[07:37 16:27 08h49m]

15h Spica 2.55° N of Moon

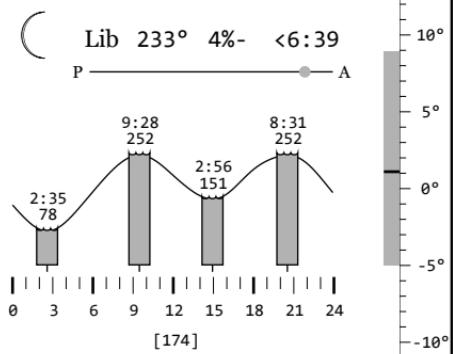


Saturday Dec 5
[1.7° -4.5°]
[07:38 16:27 08h48m]

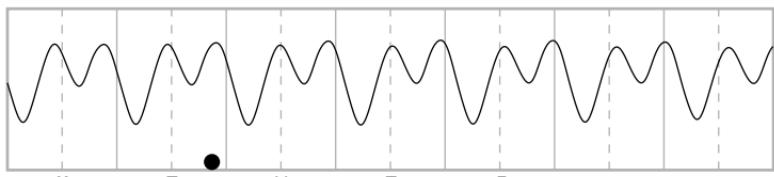
07h Venus 7.15° N of Moon



Sunday Dec 6
[1.1° -5.5°]
[07:39 16:27 08h47m]



December



E 10 20 30 40 50 60 70

Scorpius

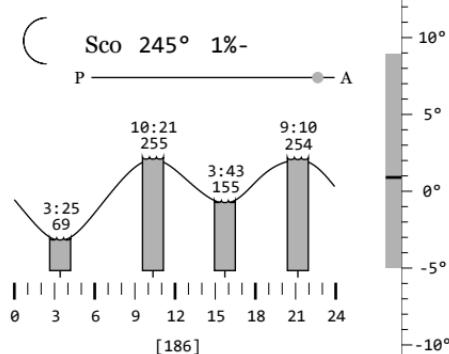
4 5 6 7 8 ☺ 12:04:56 20.9° 16 17 18 19 20

Monday Dec 7

[0.9° -6.0°]

[07:40 16:26 08h45m]

18h Mercury 5.78°N of Moon

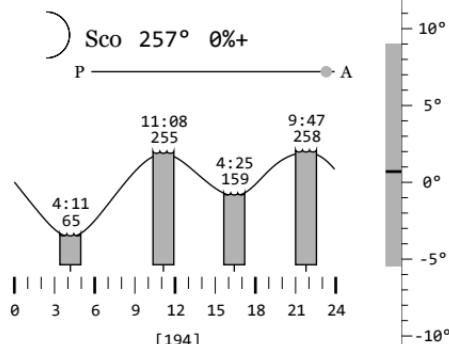


Tuesday Dec 8

[0.7° -6.1°]

[07:42 16:26 08h44m]

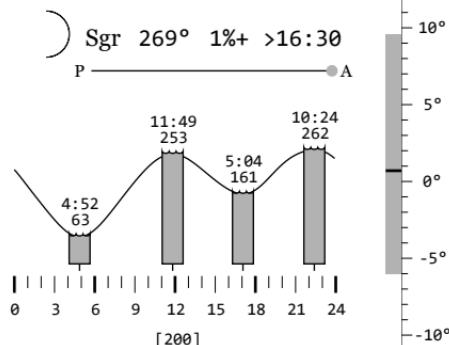
07h Antares 0.23°N of Moon
21h New Moon 404688 km



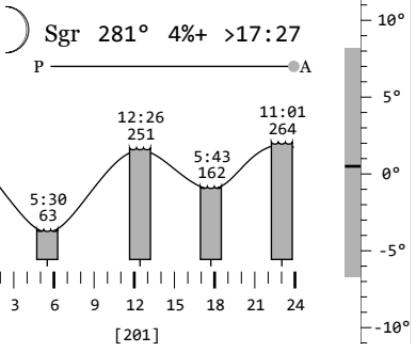
Wednesday Dec 9

[0.7° -6.4°]

[07:42 16:26 08h43m]

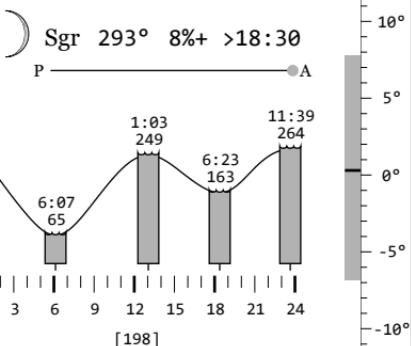


Thursday Dec 10
[0.5° -6.7°]
[07:43 16:26 08h42m]



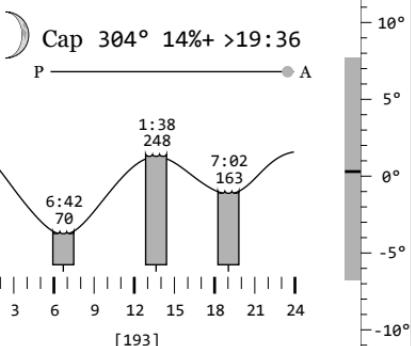
Friday Dec 11
[0.3° -7.0°]
[07:44 16:26 08h41m]

03h Moon at apogee 406409 km

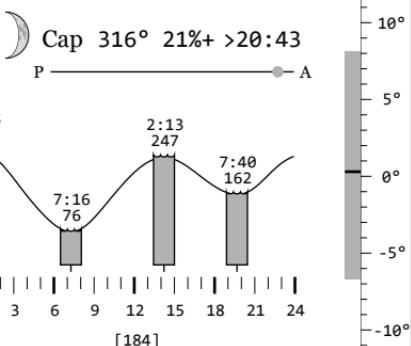


Saturday Dec 12
[0.3° -7.0°]
[07:45 16:26 08h41m]

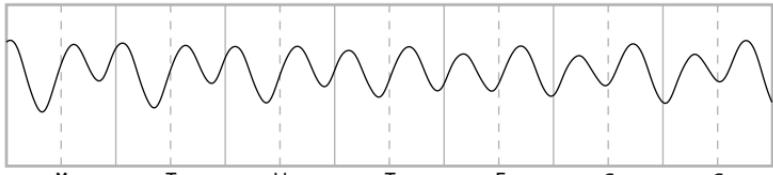
09h Antares 4.8°S of Mercury



Sunday Dec 13
[0.3° -6.9°]
[07:46 16:26 08h40m]



December



E 10 20 30 40 50 60 70

Sagittarius

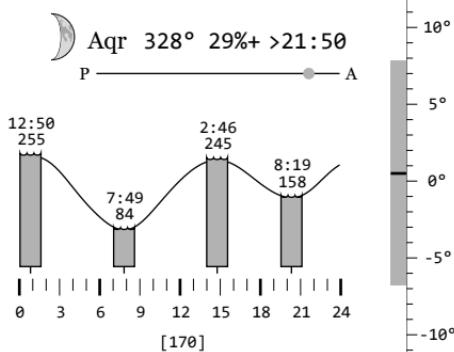
4 5 6 7 8 ☺ 12:08:13 20.4° 16 17 18 19 20

Monday Dec 14

[0.5° -6.7°]

[07:47 16:27 08h39m]

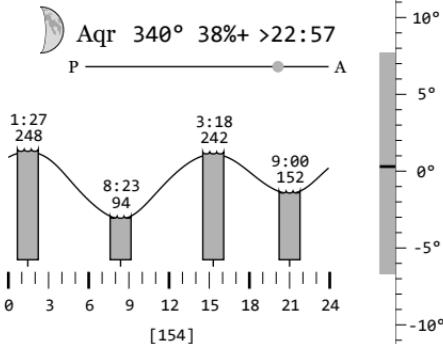
Geminid Meteors Peak



Tuesday Dec 15

[0.3° -6.7°]

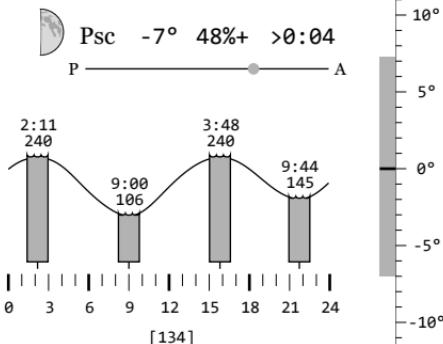
[07:48 16:27 08h39m]



Wednesday Dec 16

[0.0° -7.1°]

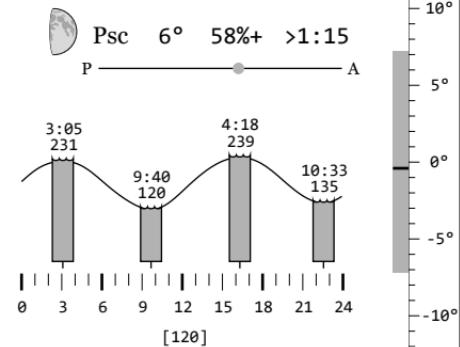
[07:48 16:27 08h38m]



Thursday Dec 17

$[-0.4^\circ \text{ } -7.2^\circ]$
[07:49 16:27 08h38m]

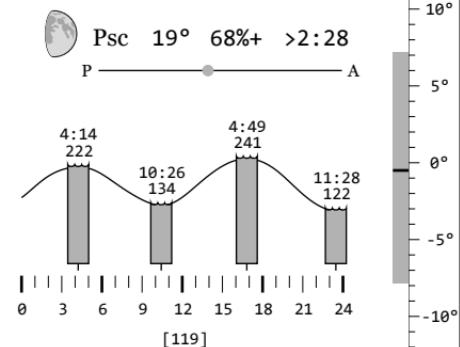
02h First Quarter 389970 km



Friday Dec 18

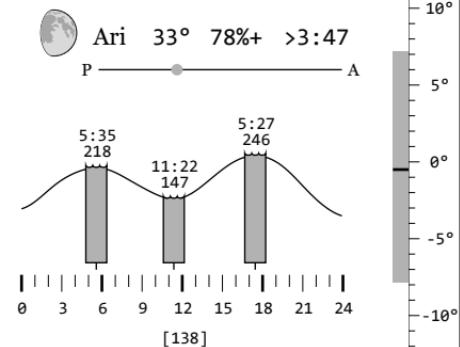
$[-0.5^\circ \text{ } -7.4^\circ]$
[07:50 16:28 08h37m]

06h Saturn 6.91°S of Moon



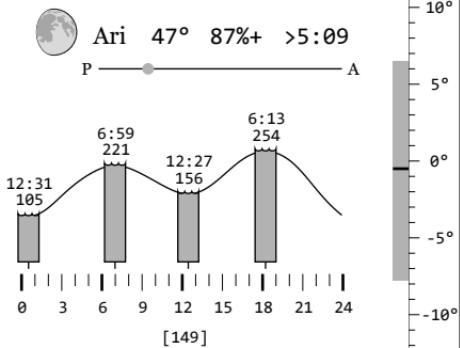
Saturday Dec 19

$[-0.5^\circ \text{ } -7.8^\circ]$
[07:50 16:28 08h37m]

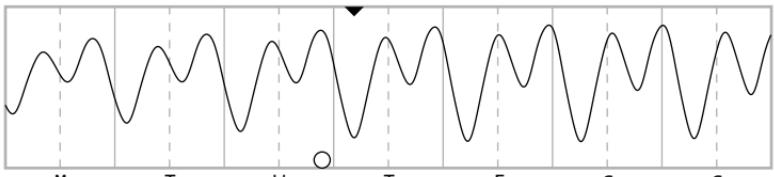


Sunday Dec 20

$[-0.5^\circ \text{ } -7.8^\circ]$
[07:51 16:28 08h37m]



December



E 10 20 30 40 50 60 70

Sagittarius

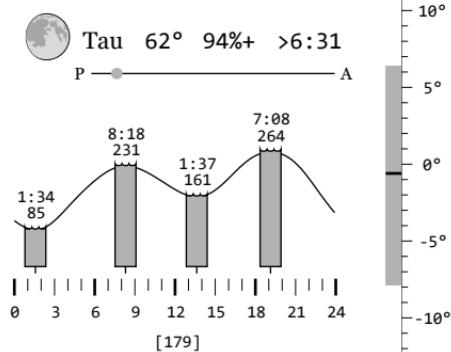
4 5 6 7 8 ☽ 12:11:40 20.3° 16 17 18 19 20

Monday Dec 21

[-0.6° -8.2°]

[07:51 16:29 08h37m]

17h Solstice

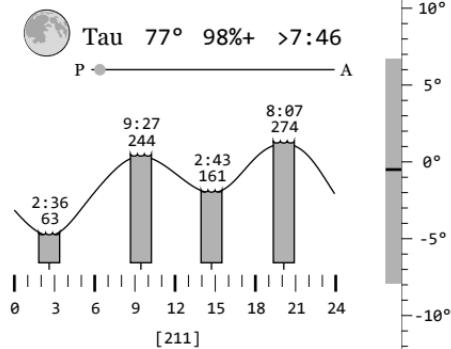


Tuesday Dec 22

[-0.5° -8.7°]

[07:52 16:29 08h37m]

13h Aldebaran 10.38°S of Moon

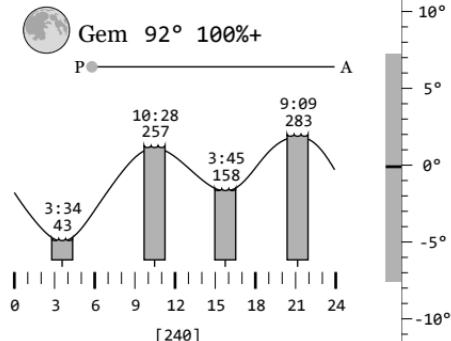


Wednesday Dec 23

[-0.1° -8.9°]

[07:52 16:30 08h37m]

21h Full Moon 356738 km



Thursday Dec 24

$[-0.2^\circ \text{ } -8.9^\circ]$

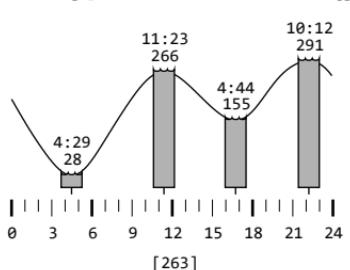
[07:53 16:31 08h37m]

05h Moon at perigee 356679 km



Gem 107° 98%- <17:04

P



Friday Dec 25

$[-0.5^\circ \text{ } -8.9^\circ]$

[07:53 16:31 08h38m]

Christmas

08h Pollux 4.41°N of Moon

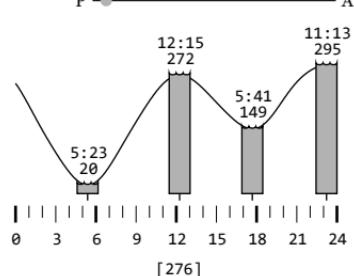
23:13 Highest tide in the almanac

23:13 Highest tide this month



Cnc 122° 94%- <18:31

P



Saturday Dec 26

$[-0.4^\circ \text{ } -8.9^\circ]$

[07:53 16:32 08h38m]

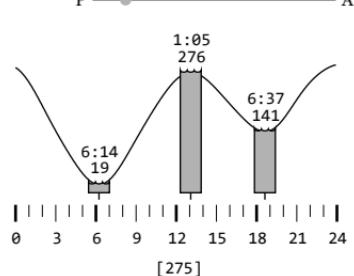
Boxing Day

06:14 Lowest tide this month



Leo 137° 87%- <19:56

P



Sunday Dec 27

$[-0.6^\circ \text{ } -9.3^\circ]$

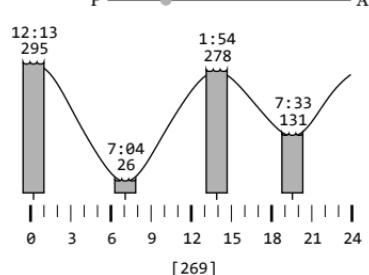
[07:54 16:33 08h38m]

14h Jupiter 1.52°N of Moon
19h Regulus 1.39°N of Moon

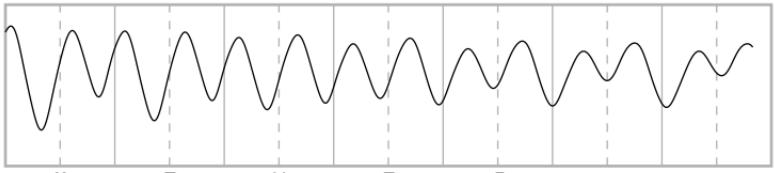


Leo 152° 78%- <21:18

P



December



E 10 20 30 40 50 60 70

Sagittarius

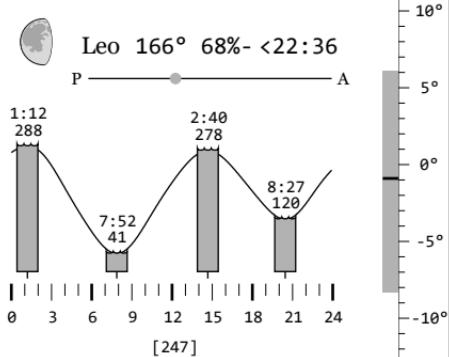
4 5 6 7 8 ☽ 12:15:06 20.6° 16 17 18 19 20

Monday Dec 28

$[-0.9^\circ \text{ } -9.4^\circ]$

[07:54 16:33 08h39m]

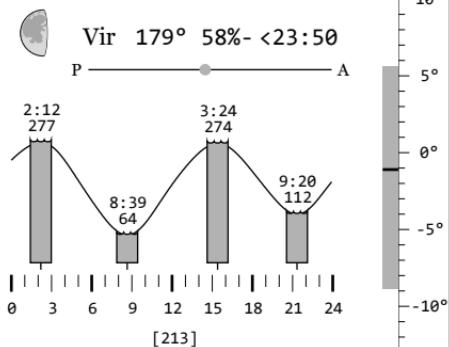
14h Mars 5.33°N of Moon



Tuesday Dec 29

$[-1.1^\circ \text{ } -9.5^\circ]$

[07:54 16:34 08h40m]

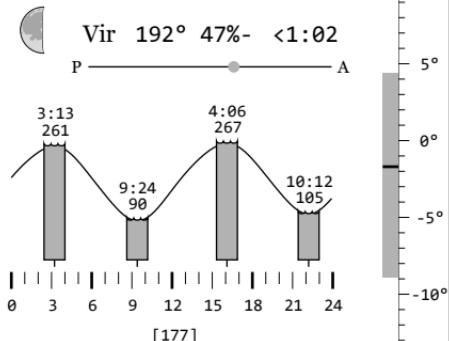


Wednesday Dec 30

$[-1.7^\circ \text{ } -9.7^\circ]$

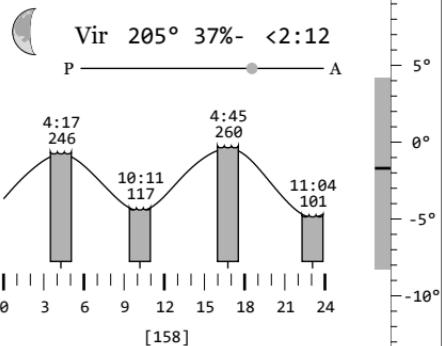
[07:54 16:35 08h40m]

15h Last Quarter 384974 km



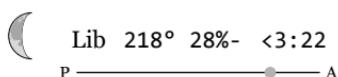
Thursday Dec 31
[-1.7° -10.0°]
[07:54 16:36 08h41m]

21h Spica 2.78°N of Moon



Friday Jan 1
[-1.7° -10.0°]
[07:54 16:37 08h42m]

New Year's Day
13h Mercury in SC 1.76° S



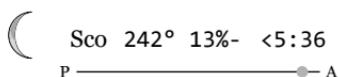
Saturday Jan 2
[-2.1° -10.4°]
[07:54 16:38 08h43m]

23h Earth at perihelion 0.983 AU

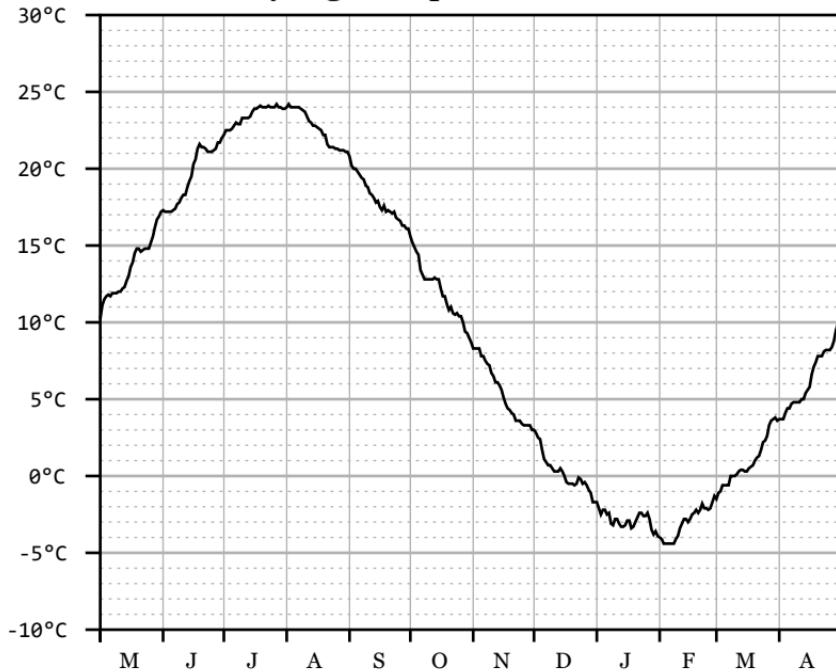


Sunday Jan 3
[-2.5° -10.8°]
[07:54 16:39 08h44m]

13h Venus 8.75°N of Moon
14h Venus at GE 47.0° W



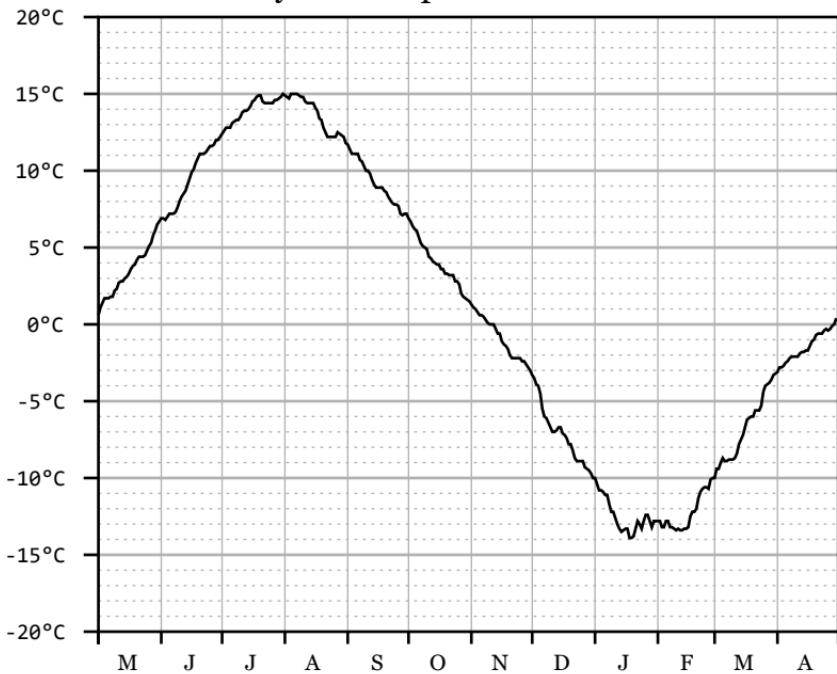
Daily high temperature: median



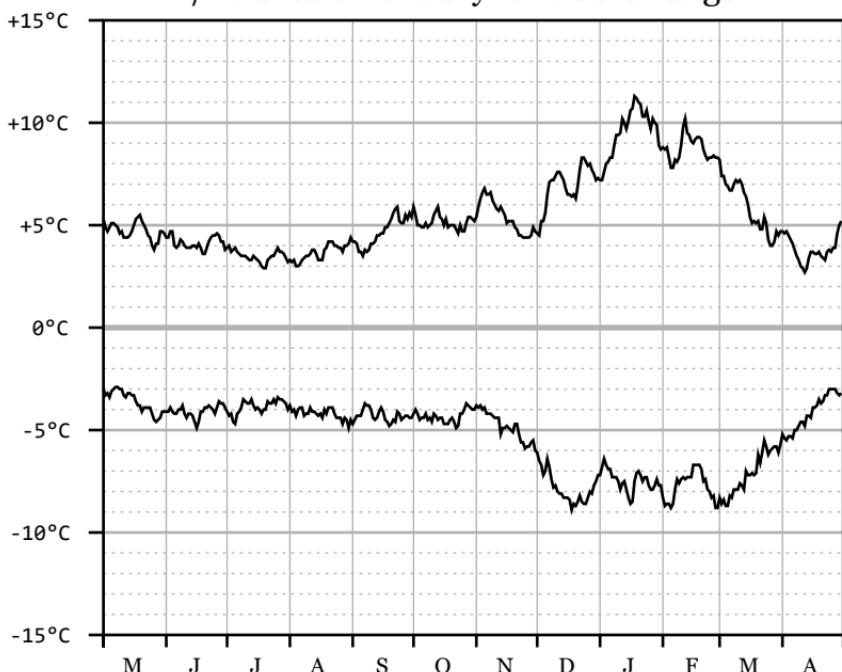
+/- Variation of daily high: 80%-range



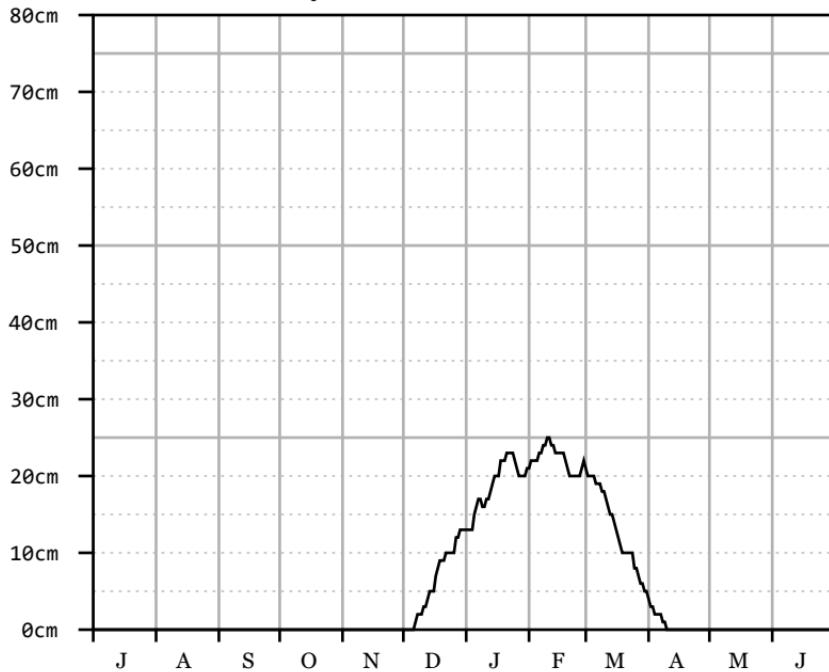
Daily low temperature: median



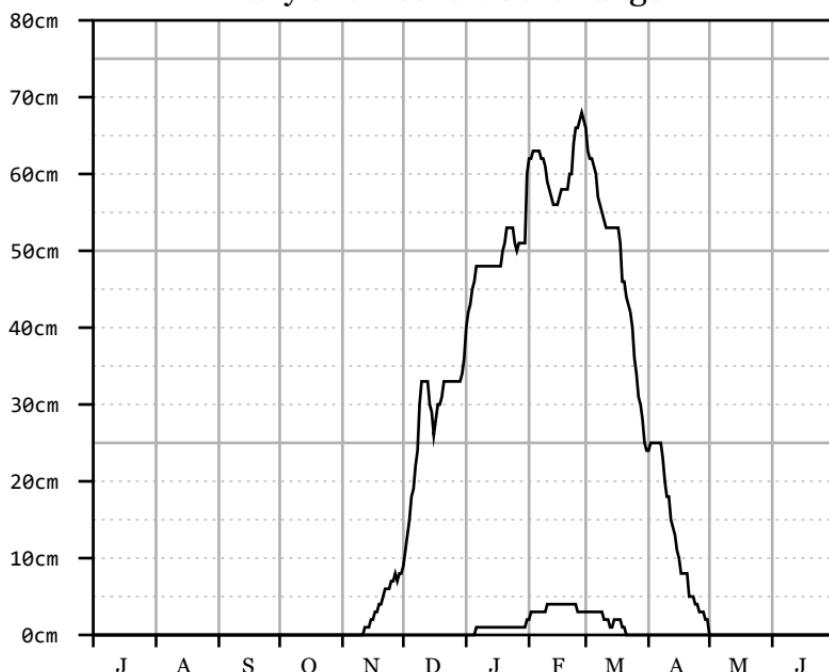
+/- Variation of daily low: 80%-range



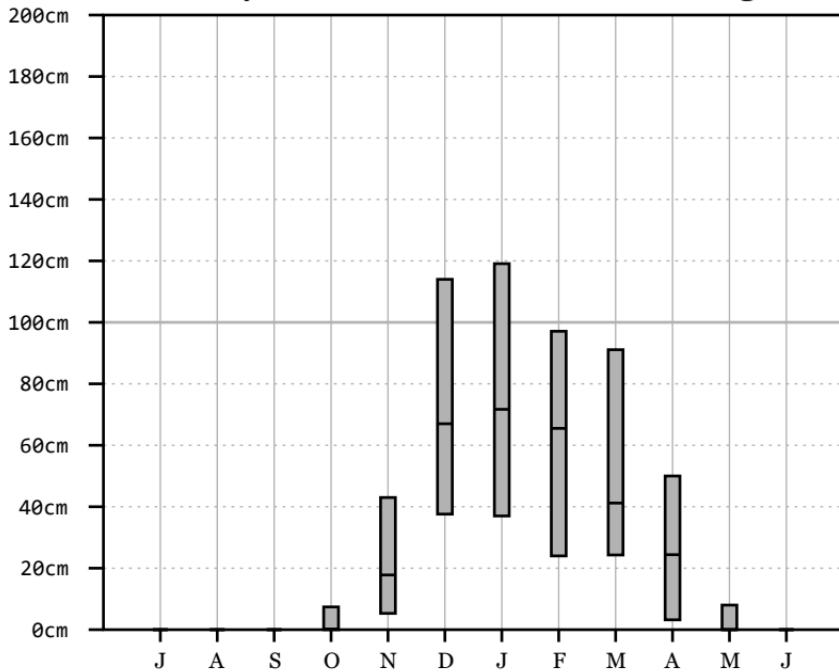
Daily snow cover: median



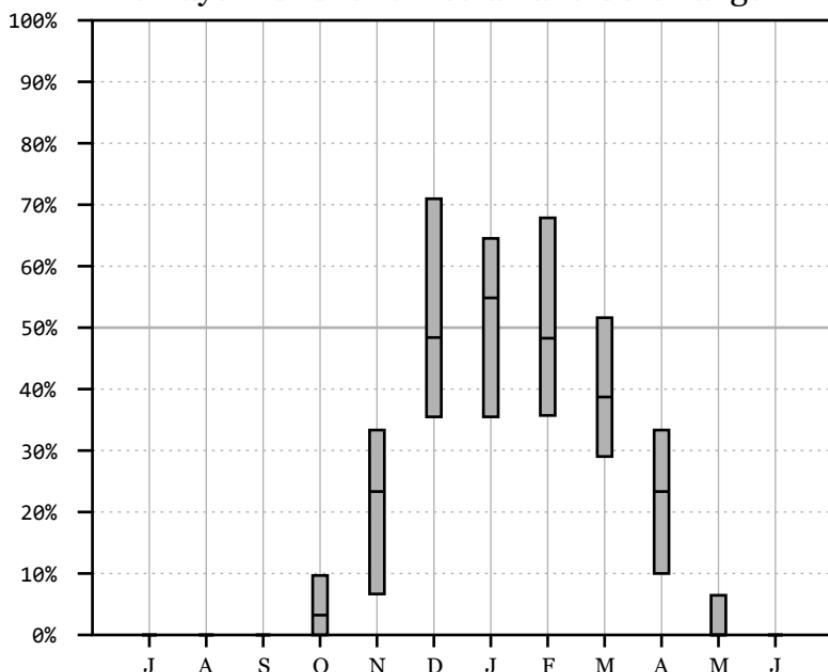
Daily snow cover: 80%-range



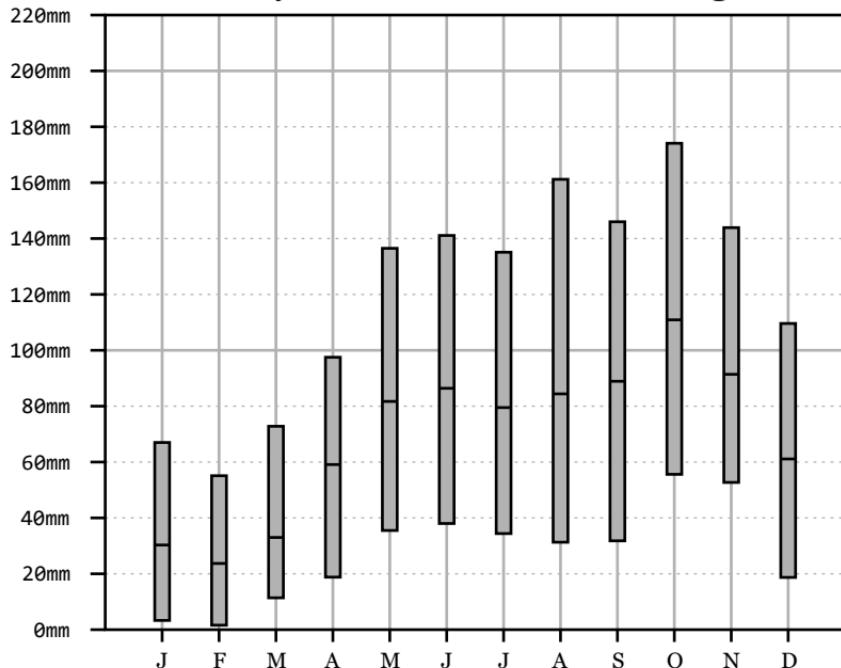
Monthly Snowfall: median and 80%-range



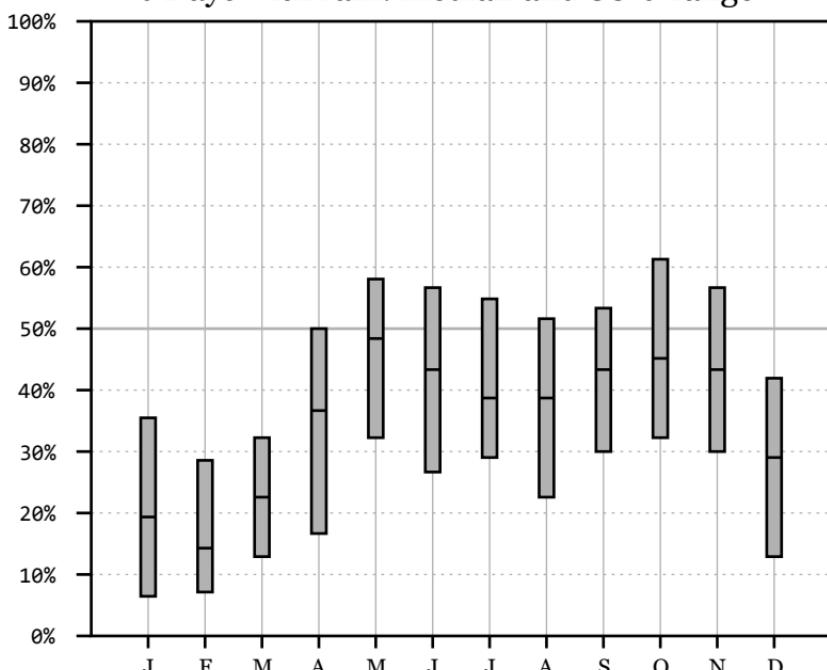
% Days with snow: median and 80%-range



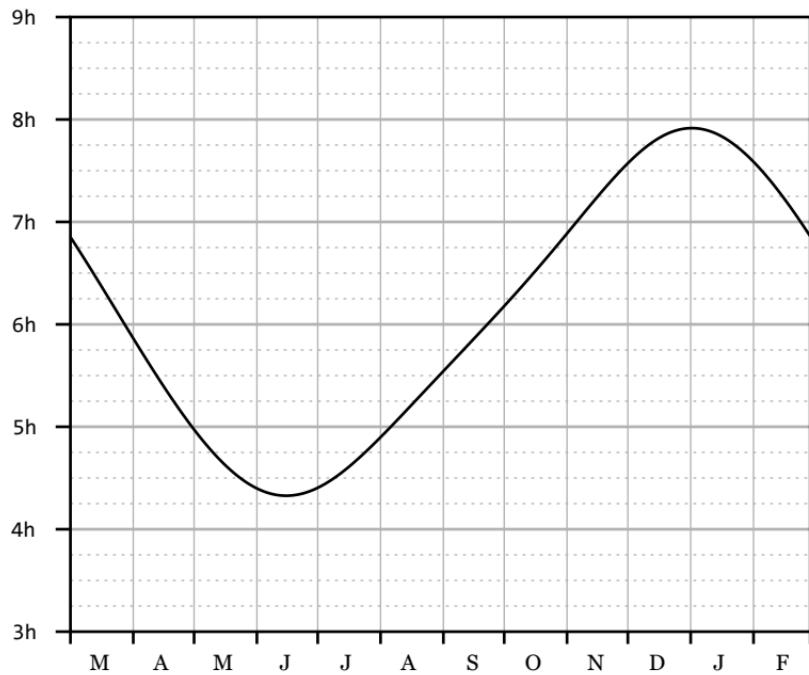
Monthly Rain: median and 80%-range



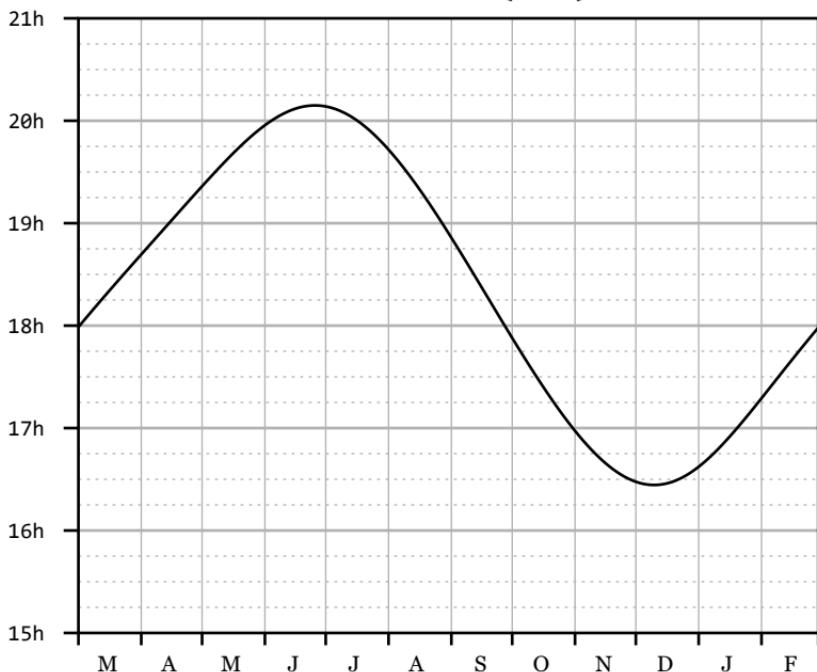
% Days with rain: median and 80%-range



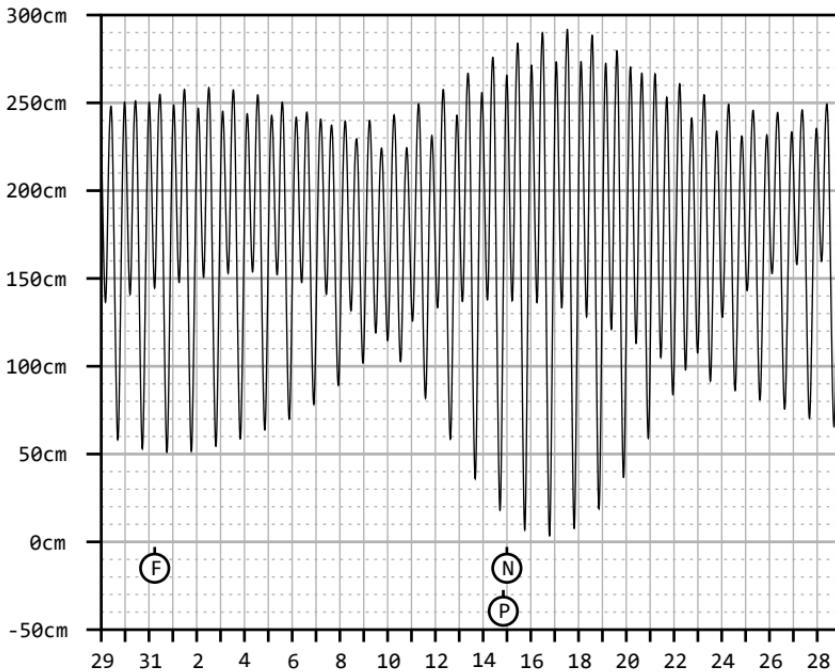
Time of Sunrise (AST)



Time of Sunset (AST)



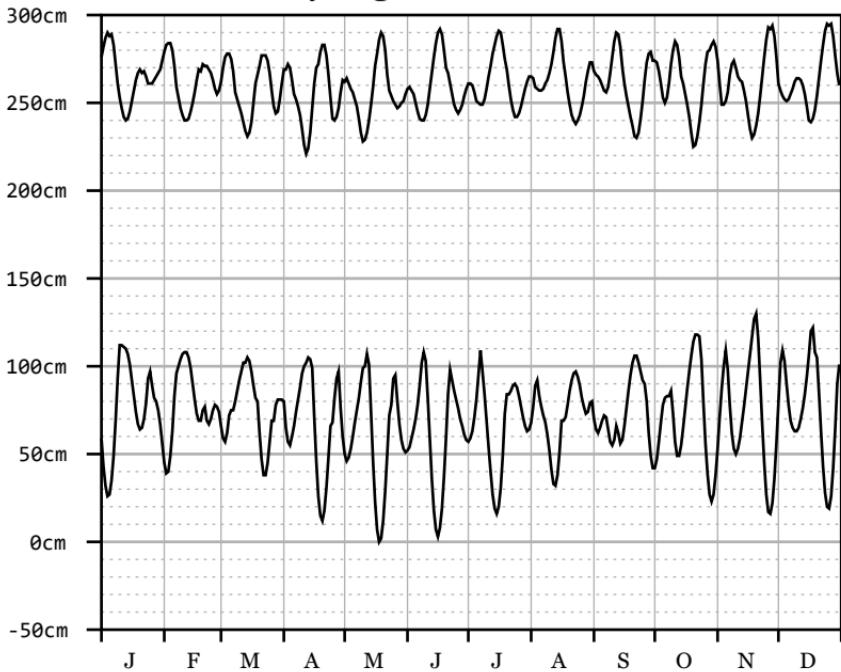
Tidal Curve near June 14



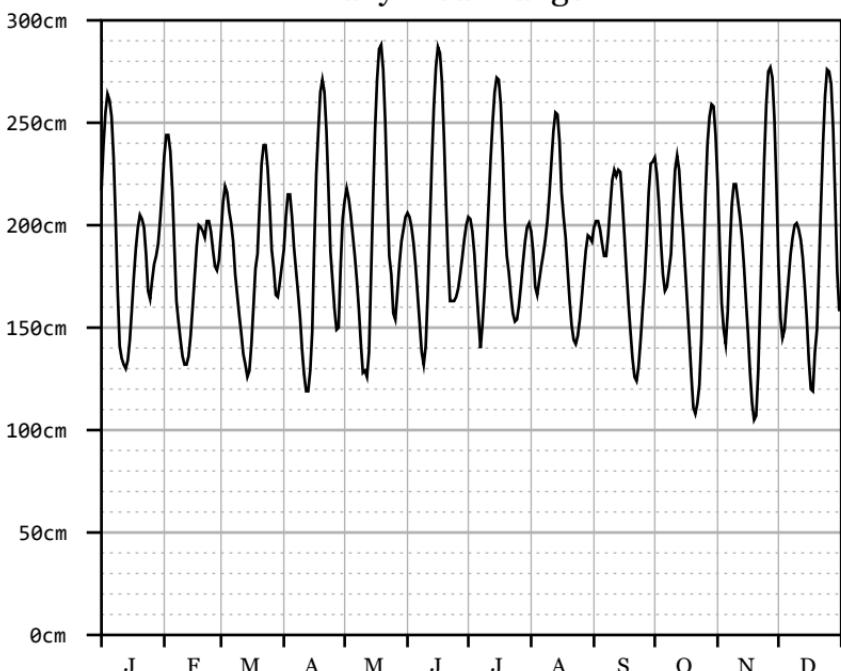
Tidal Range

Tidal range generally increases when the Moon is closer to the Earth near *perigee* (P) and when its phase is near new Moon (N) or full Moon (F). The largest tides occur when these two effects are in sync, which happens about every 7 months. There is often a lag, where the biggest tidal range actually happens a day or two after the astronomical event.

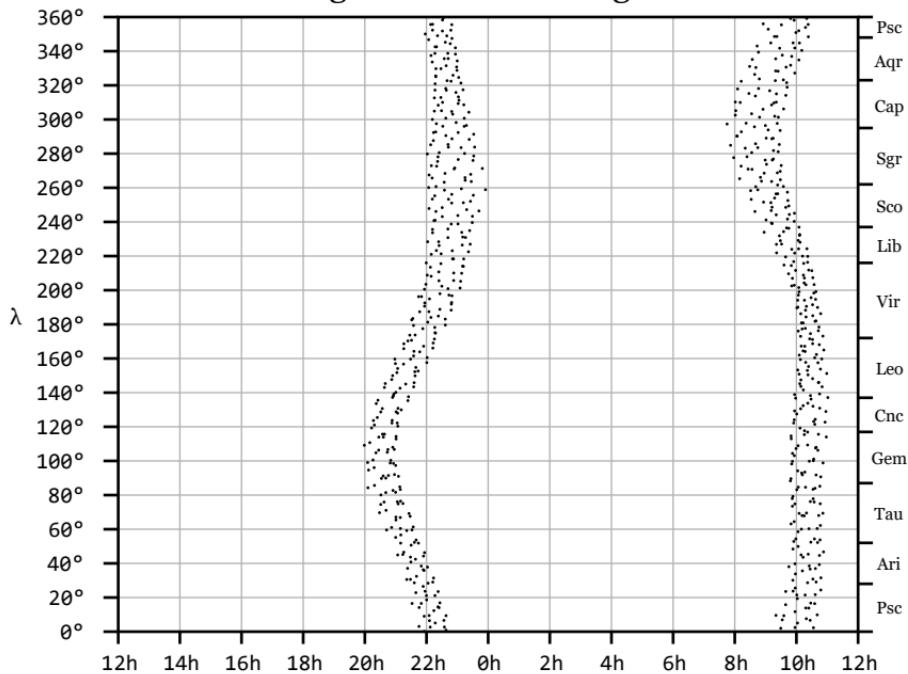
Daily High And Low Water



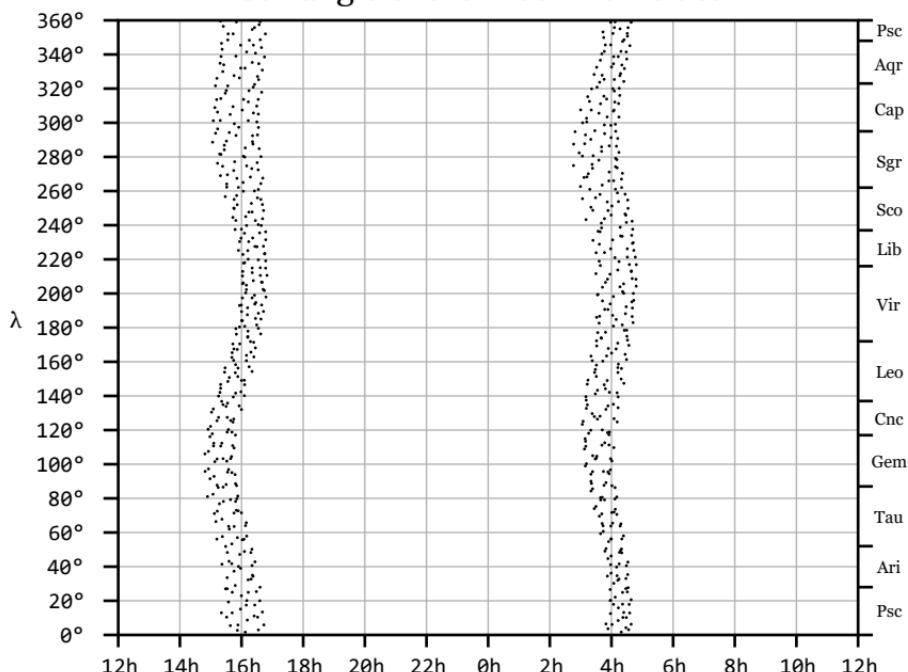
Daily Tidal Range



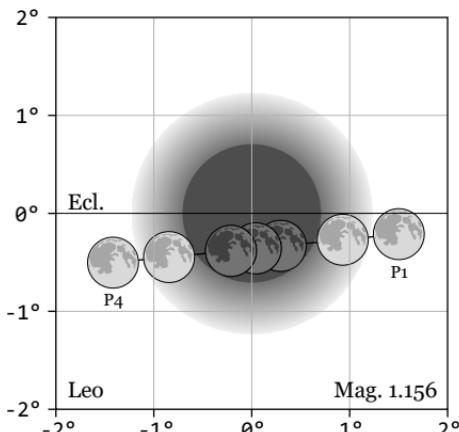
Hour angle of the Moon: high tides



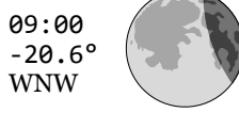
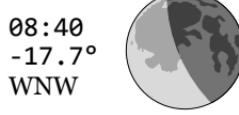
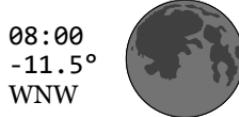
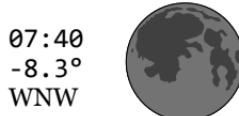
Hour angle of the Moon: low tides



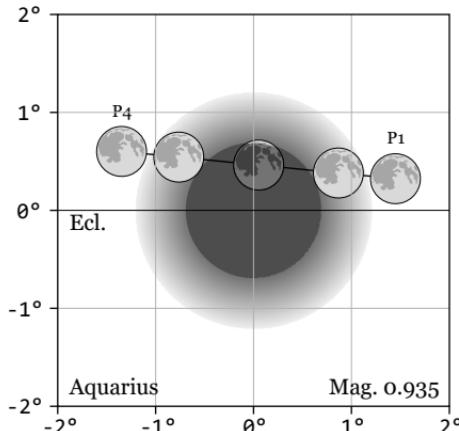
Total Lunar Eclipse Mar 3



Event	Time	Alt.	Dir.
P ₁	04:43	21.6°	WSW
U ₁	05:50	10.3°	W
U ₂	07:04	-2.3°	WNW
Max	07:34	-7.2°	WNW
U ₃	08:03	-12.0°	WNW
U ₄	09:18	-23.0°	NW
P ₄	10:25	-31.2°	NW



Partial Lunar Eclipse Aug 27 - Aug 28



Event	Time	Alt.	Dir.
P1	22:22	22.7°	SE
U1	23:34	30.0°	SSE
Max	01:13	34.5°	S
U4	02:52	30.8°	SSW
P4	04:04	23.9°	SW

23:20
28.9°
SSE



01:20
34.5°
S



23:40
30.5°
SSE



01:40
34.3°
S



00:00
32.0°
SSE



02:00
33.7°
SSW



00:20
33.1°
SSE



02:20
32.8°
SSW



00:40
33.9°
S



02:40
31.7°
SSW



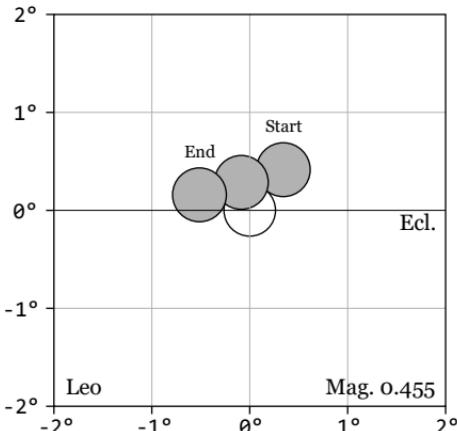
01:00
34.3°
S



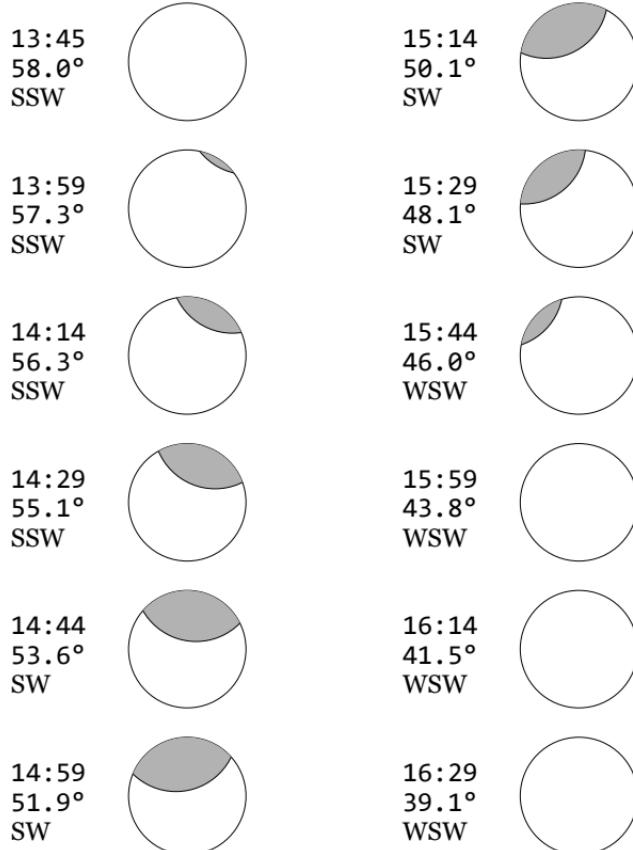
03:00
30.2°
SSW



Partial Solar Eclipse Aug 12

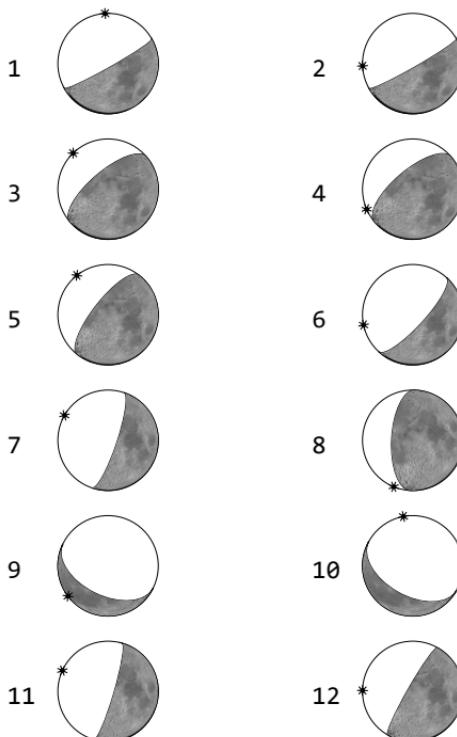


Event	Time	Alt.	Dir.
Start	13:54	57.6°	SSW
Max	14:57	52.2°	SW
End	15:57	44.2°	WSW



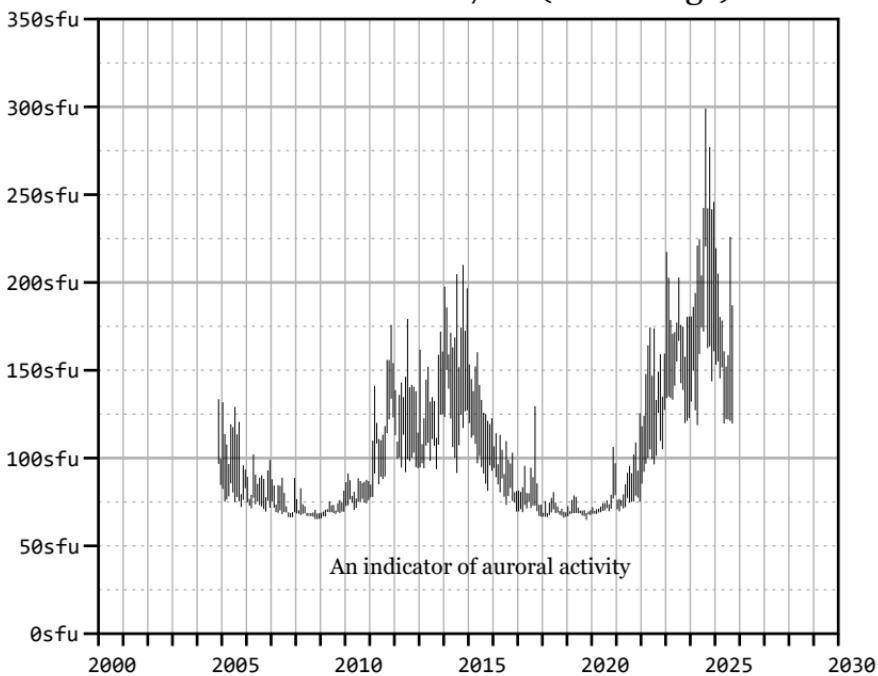
Occultations of Stars by the Moon

#	Date	Time	Mag	Ph*	Const.	Star
1	2026-02-23	23:26.4	5.7	DD	Tau	18 Tau
2	2026-02-23	23:31.3	4.3	DD	Tau	19 Tau
3	2026-02-25	22:49.8	5.6	DD	Gem	ZC 885
4	2026-02-26	00:16.3	4.6	DD	Gem	136 Aqr
5	2026-03-27	01:13.9	3.6	DD	Gem	Kappa Gem
6	2026-04-22	22:48.8	5.0	DD	Gem	57 Gem
7	2026-06-20	23:02.0	5.2	DD	Leo	75 Leo
8	2026-06-23	22:39.7	5.5	DD	Vir	75 Vir
9	2026-10-06	05:37.7	-1.7	DB	Leo	Jupiter
10	2026-10-06	06:35.2	-1.7	RD	Leo	Jupiter
11	2026-11-16	17:43.6	4.3	DD	Cap	Iota Cap
12	2026-11-17	19:20.3	5.4	DD	Aqr	37 Aqr

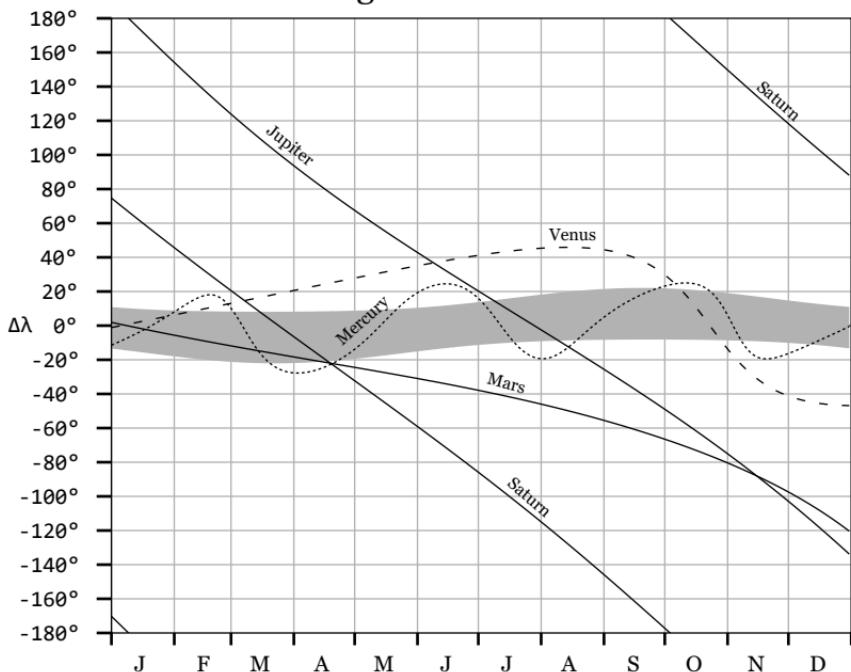


*DD: Disappears at the Dark limb. R for reappears, B for bright limb.

Solar Radio Flux 10.7cm (80%-range)

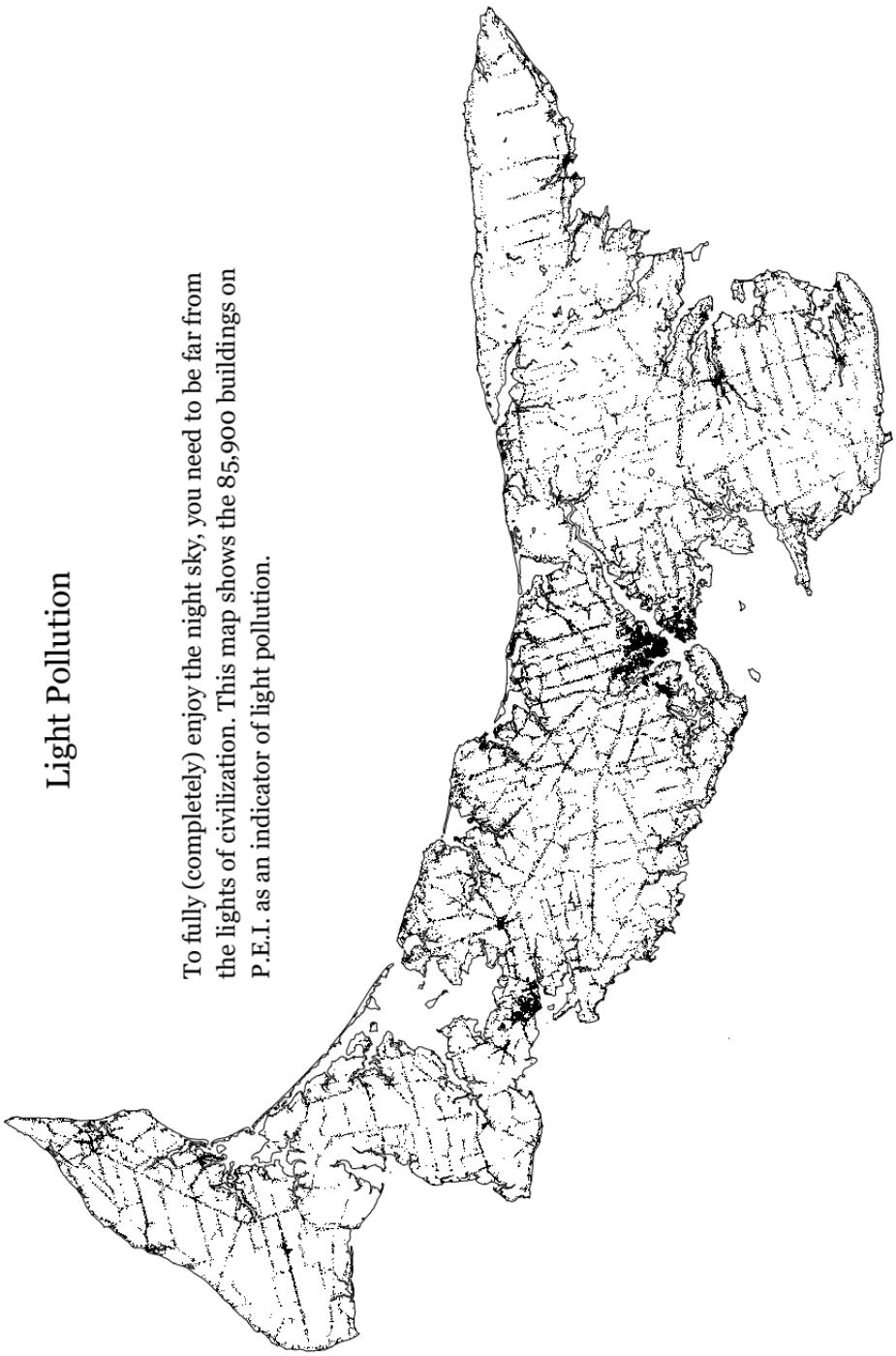


Bright Planets 2026



Light Pollution

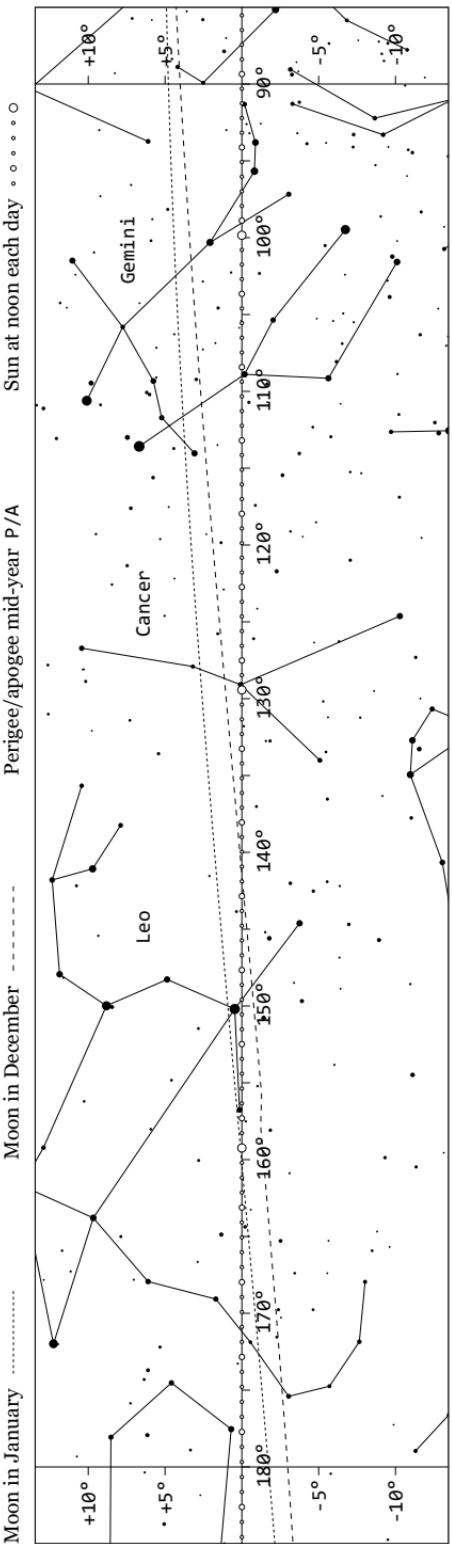
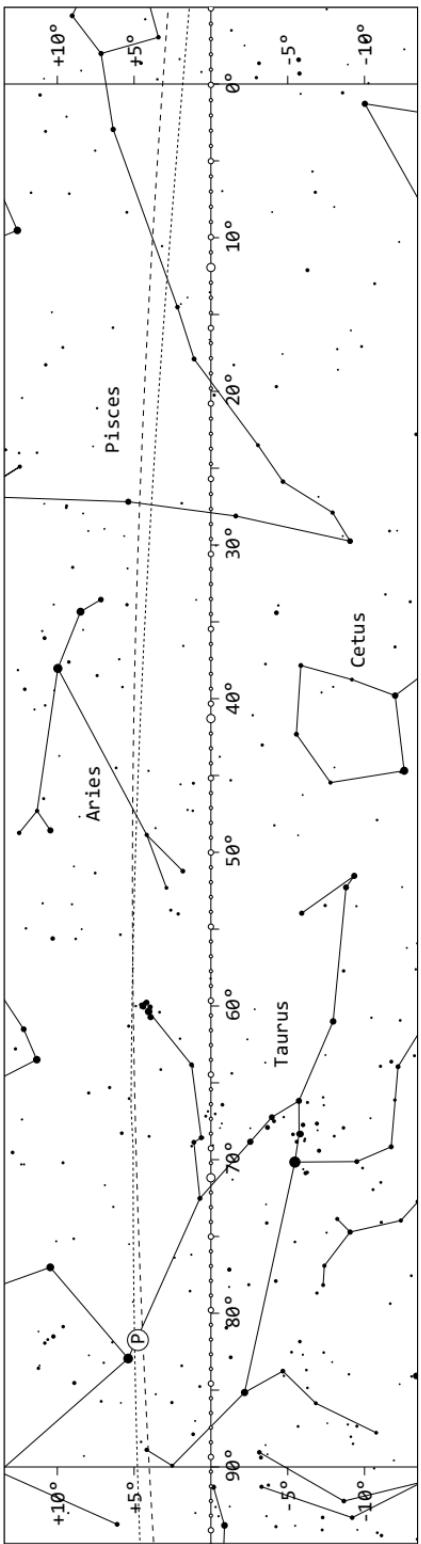
To fully (completely) enjoy the night sky, you need to be far from the lights of civilization. This map shows the 85,900 buildings on P.E.I. as an indicator of light pollution.

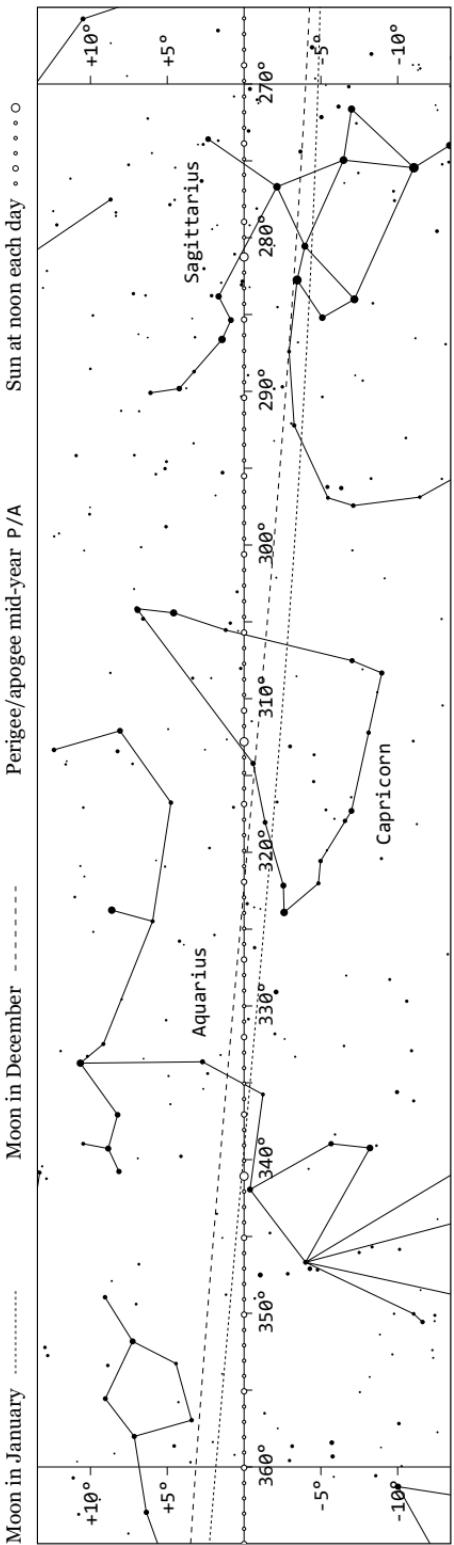
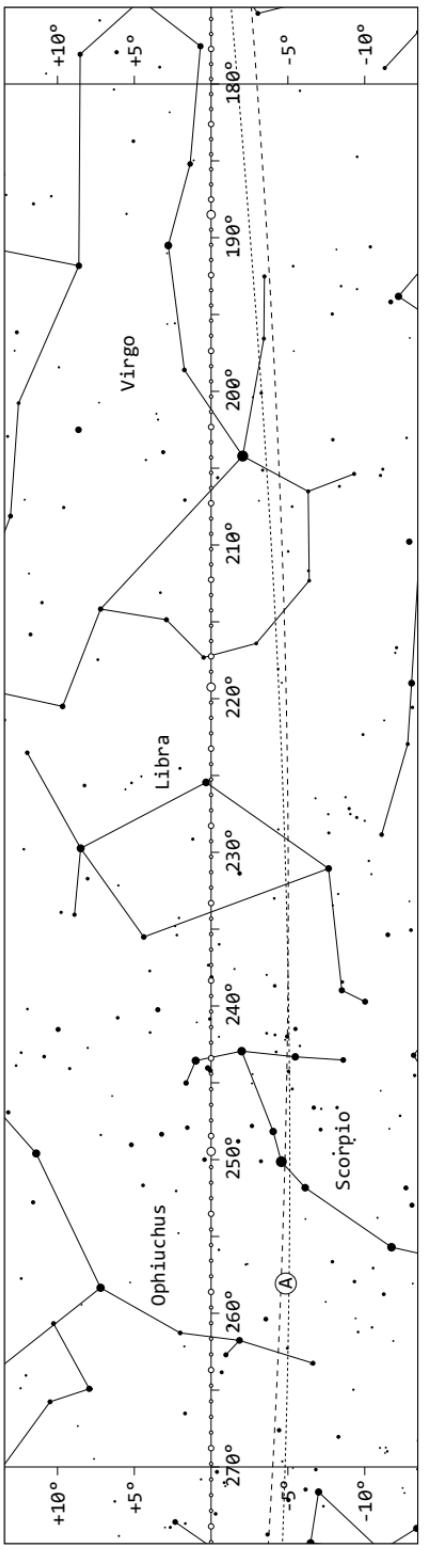


Map of the Moon



- | | | | |
|---|--------------------|---|---------------------|
| 0 | Bay of Rainbows | E | Aristillus |
| 1 | Ocean of Storms | F | Archimedes |
| 2 | Sea of Rains | G | Apennine Mountains |
| 3 | Sea of Serenity | H | Eratosthenes |
| 4 | Sea of Crises | I | Copernicus |
| 5 | Sea of Tranquility | J | Alphonsus |
| 6 | Sea of Fertility | K | Ptolemaeus |
| 7 | Sea of Nectar | L | Albategnius |
| 8 | Sea of Clouds | M | Theophilus |
| 9 | Sea of Moisture | N | Langrenus |
| A | Aristarchus | P | Petavius |
| B | Plato | Q | Tycho (bright rays) |
| C | Aristoteles | R | Clavius |
| D | Caucasus Mountains | x | Apollo 11 Site |





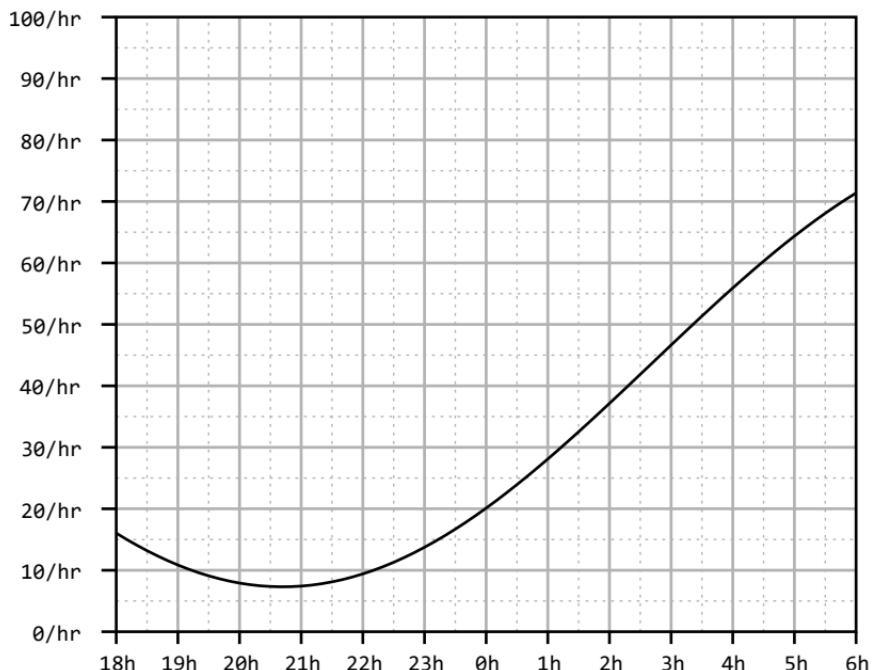
Ecliptic Coordinates $\lambda \beta$

Date oh AST	Jupiter	Saturn
2026-01-01	Gem 111° +0.2°	Psc 356° -2.3°
2026-02-01	Gem 107° +0.3°	Psc 359° -2.2°
2026-03-01	Gem 105° +0.3°	Psc 2° -2.1°
2026-04-01	Gem 106° +0.4°	Psc 6° -2.1°
2026-05-01	Gem 109° +0.4°	Psc 9° -2.2°
2026-06-01	Gem 114° +0.4°	Psc 12° -2.3°
2026-07-01	Cnc 120° +0.4°	Psc 14° -2.4°
2026-08-01	Cnc 127° +0.5°	Psc 15° -2.5°
2026-09-01	Cnc 134° +0.5°	Psc 14° -2.7°
2026-10-01	Leo 140° +0.6°	Psc 12° -2.7°
2026-11-01	Leo 144° +0.7°	Psc 9° -2.7°
2026-12-01	Leo 147° +0.8°	Psc 8° -2.6°
2027-01-01	Leo 146° +0.9°	Psc 8° -2.5°
2027-02-01	Leo 143° +1.0°	Psc 10° -2.3°
2027-03-01	Leo 140° +1.1°	Psc 13° -2.3°
2027-04-01	Leo 137° +1.1°	Psc 17° -2.2°
2027-05-01	Leo 137° +1.0°	Psc 21° -2.2°
2027-06-01	Leo 140° +1.0°	Psc 24° -2.3°
2027-07-01	Leo 145° +0.9°	Psc 27° -2.4°
2027-08-01	Leo 151° +0.9°	Psc 28° -2.6°
2027-09-01	Leo 158° +0.9°	Psc 27° -2.7°
2027-10-01	Leo 164° +1.0°	Psc 26° -2.8°
2027-11-01	Leo 170° +1.0°	Psc 23° -2.8°
2027-12-01	Vir 175° +1.1°	Psc 21° -2.7°
2028-01-01	Vir 177° +1.3°	Psc 21° -2.5°
2028-02-01	Vir 177° +1.4°	Psc 22° -2.4°
2028-03-01	Vir 174° +1.5°	Psc 25° -2.3°
2028-04-01	Leo 170° +1.5°	Ari 28° -2.2°
2028-05-01	Leo 168° +1.4°	Ari 32° -2.2°
2028-06-01	Leo 168° +1.3°	Ari 36° -2.3°
2028-07-01	Leo 171° +1.2°	Ari 39° -2.3°
2028-08-01	Vir 176° +1.2°	Ari 41° -2.5°
2028-09-01	Vir 182° +1.1°	Ari 41° -2.6°
2028-10-01	Vir 188° +1.1°	Ari 40° -2.7°
2028-11-01	Vir 195° +1.1°	Ari 38° -2.7°
2028-12-01	Vir 200° +1.2°	Ari 36° -2.6°

Ecliptic Coordinates $\lambda \beta$

Date oh AST	Mercury	Venus	Mars
2026-01-01	Sgr 269° -0.6°	Sgr 279° -0.5°	Sgr 283° -0.9°
2026-01-10	Sgr 283° -1.4°	Sgr 291° -0.8°	Sgr 290° -0.9°
2026-01-20	Cap 299° -2.0°	Cap 303° -1.1°	Cap 298° -1.0°
2026-02-01	Cap 320° -1.9°	Cap 318° -1.4°	Cap 307° -1.0°
2026-02-10	Aqr 336° -0.9°	Aqr 330° -1.5°	Cap 314° -1.1°
2026-02-20	Psc 350° +1.3°	Aqr 342° -1.5°	Cap 322° -1.1°
2026-03-01	Psc 352° +3.3°	Psc 353° -1.4°	Aqr 329° -1.1°
2026-03-10	Aqr 344° +3.4°	Psc 5° -1.2°	Aqr 336° -1.1°
2026-03-20	Aqr 339° +1.1°	Psc 17° -0.9°	Aqr 344° -1.1°
2026-04-01	Aqr 344° -1.3°	Ari 32° -0.4°	Psc 353° -1.0°
2026-04-10	Psc 353° -2.3°	Ari 43° 0.0°	Psc 0° -1.0°
2026-04-20	Psc 7° -2.6°	Tau 55° +0.4°	Psc 8° -1.0°
2026-05-01	Psc 26° -1.9°	Tau 68° +0.9°	Psc 17° -0.9°
2026-05-10	Ari 44° -0.6°	Tau 79° +1.3°	Psc 23° -0.8°
2026-05-20	Tau 66° +1.1°	Gem 91° +1.6°	Ari 31° -0.7°
2026-06-01	Gem 89° +2.2°	Gem 106° +1.9°	Ari 40° -0.6°
2026-06-10	Gem 103° +1.8°	Gem 116° +2.0°	Ari 47° -0.5°
2026-06-20	Gem 113° +0.2°	Cnc 128° +2.0°	Tau 54° -0.4°
2026-07-01	Gem 116° -2.5°	Leo 140° +1.8°	Tau 62° -0.3°
2026-07-10	Gem 113° -4.5°	Leo 150° +1.4°	Tau 68° -0.2°
2026-07-20	Gem 107° -4.6°	Leo 161° +0.9°	Tau 75° -0.1°
2026-08-01	Gem 110° -2.1°	Vir 174° 0.0°	Tau 83° +0.1°
2026-08-10	Cnc 121° +0.1°	Vir 183° -0.9°	Gem 89° +0.2°
2026-08-20	Leo 139° +1.6°	Vir 193° -2.0°	Gem 96° +0.4°
2026-09-01	Leo 163° +1.6°	Vir 203° -3.4°	Gem 104° +0.5°
2026-09-10	Vir 179° +0.8°	Vir 210° -4.6°	Gem 109° +0.7°
2026-09-20	Vir 195° -0.4°	Vir 215° -5.9°	Gem 115° +0.8°
2026-10-01	Vir 211° -1.8°	Lib 218° -7.1°	Cnc 122° +1.0°
2026-10-10	Lib 222° -2.7°	Lib 218° -7.6°	Cnc 127° +1.2°
2026-10-20	Lib 230° -3.2°	Vir 213° -7.1°	Cnc 132° +1.4°
2026-11-01	Lib 226° -1.5°	Vir 206° -4.8°	Leo 139° +1.6°
2026-11-10	Lib 216° +1.4°	Vir 203° -2.6°	Leo 143° +1.8°
2026-11-20	Lib 218° +2.4°	Vir 204° -0.3°	Leo 148° +2.0°
2026-12-01	Lib 232° +1.5°	Vir 208° +1.5°	Leo 152° +2.3°
2026-12-10	Sco 246° +0.5°	Vir 214° +2.5°	Leo 155° +2.6°
2026-12-20	Sco 261° -0.7°	Lib 222° +3.1°	Leo 158° +2.9°

Quadrantid Meteors 2026



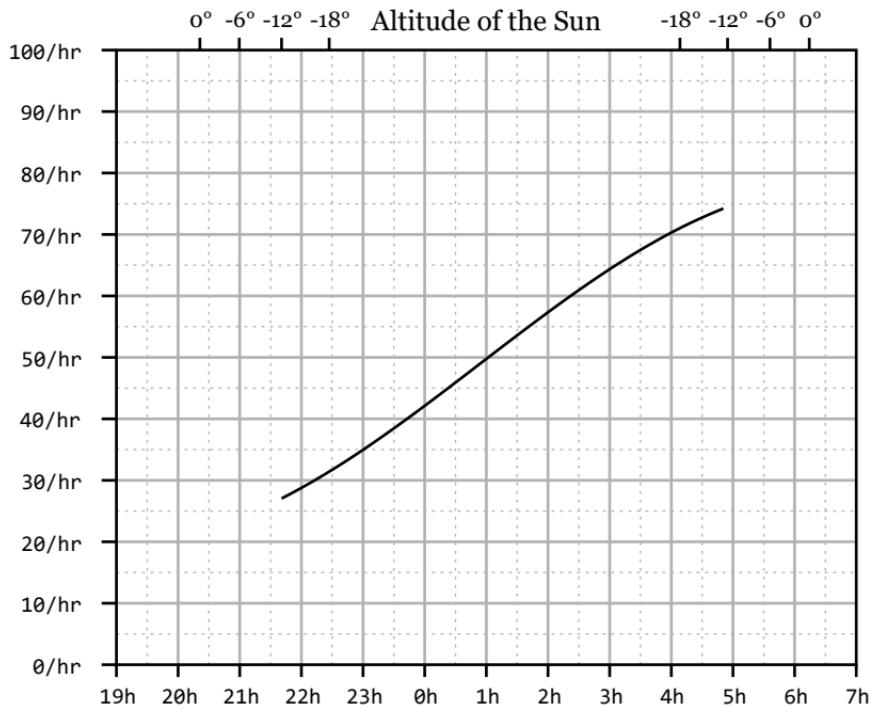
The best night is Saturday January 3.

Meteors are also visible a few days before and after this date.

Moon Near the Peak

Wednesday December 31	Tau	92%+	>6:22	
Thursday January 1	Tau	97%+	>7:35	
Friday January 2	Gem	100%+		
Saturday January 3	Gem	99%-	<16:45	
Sunday January 4	Cnc	96%-	<18:09	
Monday January 5	Leo	91%-	<19:31	
Tuesday January 6	Leo	84%-	<20:48	

Perseid Meteors 2026



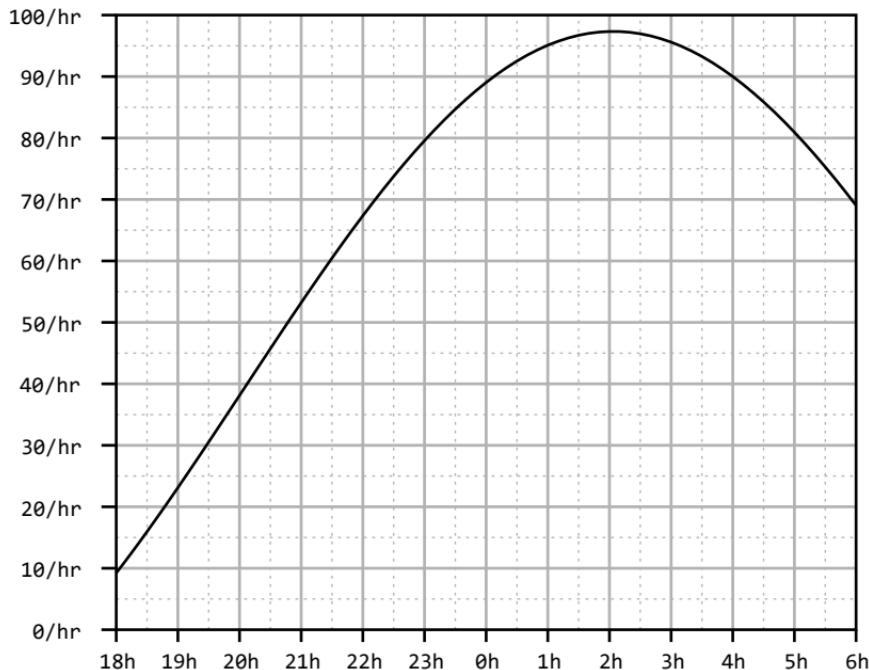
The best night is Thursday August 13.

Meteors are also visible a few days before and after this date.

Moon Near the Peak

Monday August 10	Gem	4% -	<4:17	
Tuesday August 11	Cnc	1% -	<5:42	
Wednesday August 12	Leo	0% +	>20:31	
Thursday August 13	Leo	2% +	>20:52	
Friday August 14	Vir	7% +	>21:11	
Saturday August 15	Vir	13% +	>21:28	
Sunday August 16	Vir	21% +	>21:46	

Geminid Meteors 2026



The best night is Monday December 14.

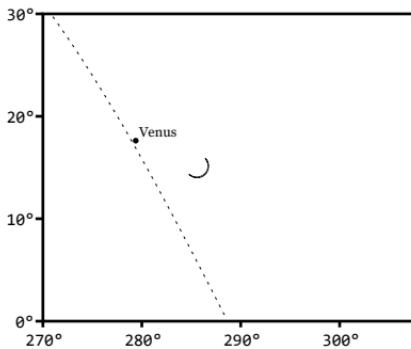
Meteors are also visible a few days before and after this date.

Moon Near the Peak

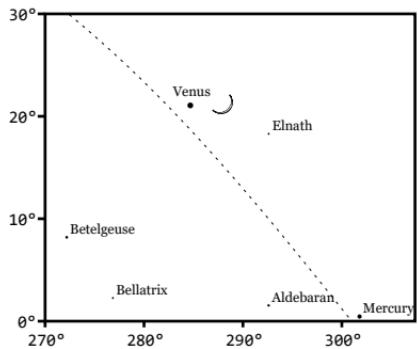
Friday December 11	Sgr	8%+	>18:30	
Saturday December 12	Cap	14%+	>19:36	
Sunday December 13	Cap	21%+	>20:43	
Monday December 14	Aqr	29%+	>21:50	
Tuesday December 15	Aqr	38%+	>22:57	
Wednesday December 16	Psc	48%+	>0:04	
Thursday December 17	Psc	58%+	>1:15	

Conjunctions

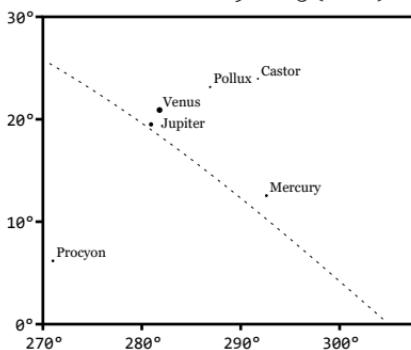
Sat 2026-04-18 20:25 (West)



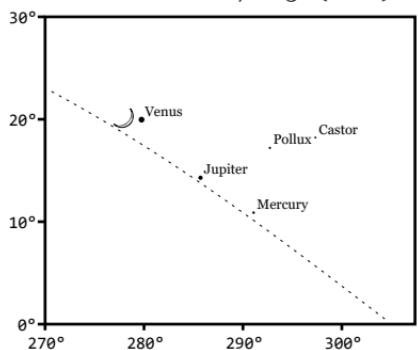
Mon 2026-05-18 21:05 (West)



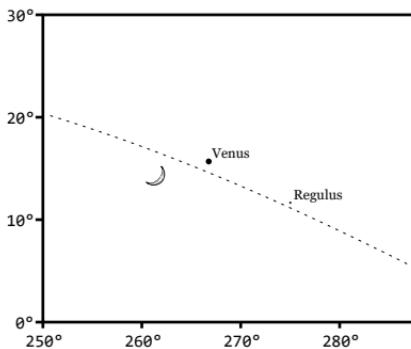
Tue 2026-06-09 21:25 (West)



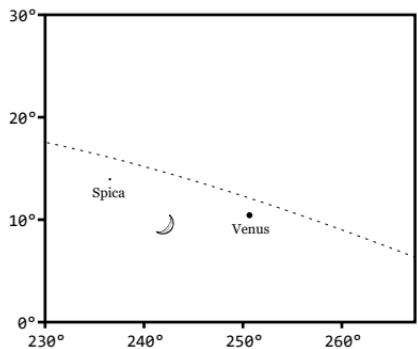
Wed 2026-06-17 21:30 (West)



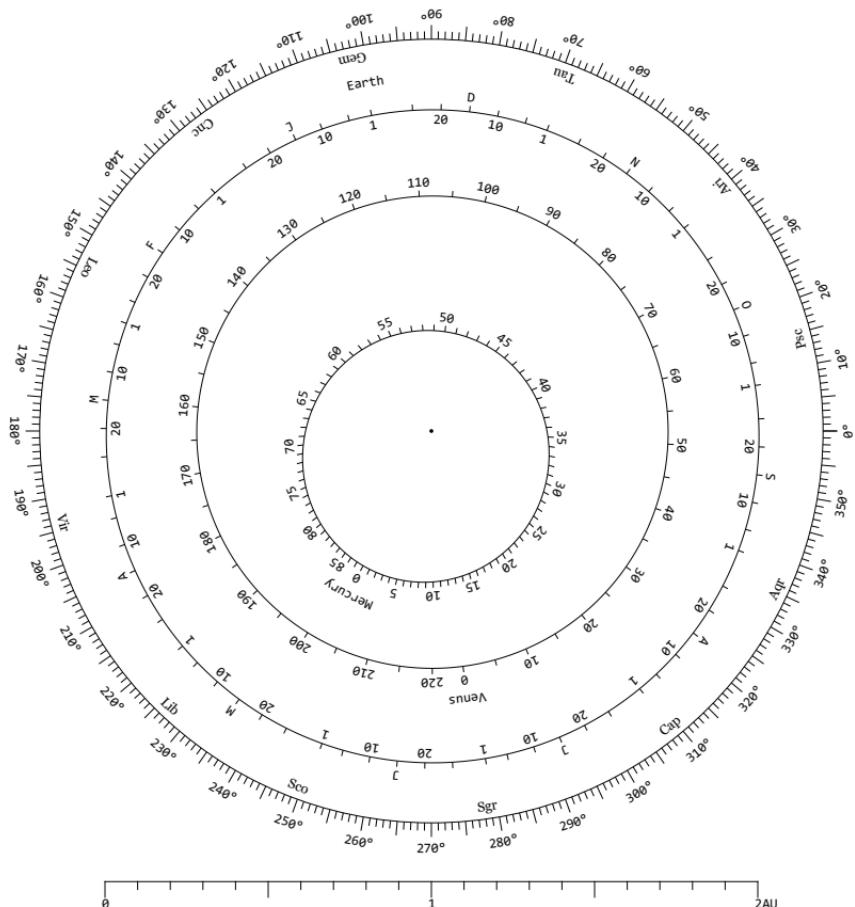
Fri 2026-07-17 21:20 (West)



Sun 2026-08-16 20:40 (West)

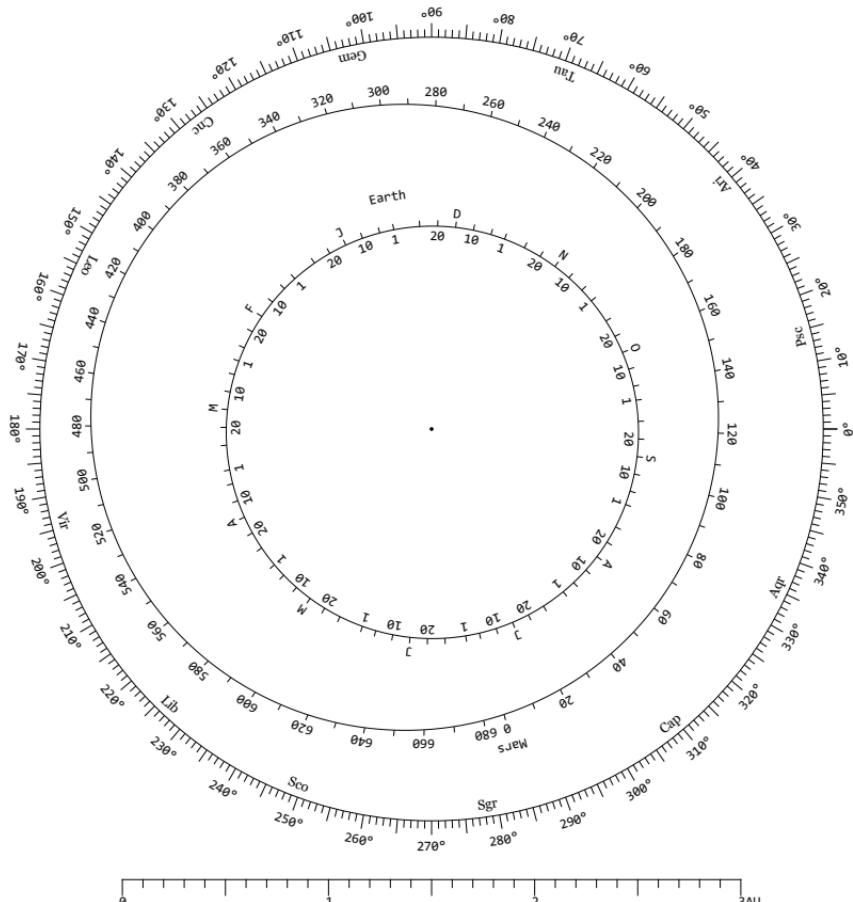


Orbits of Mercury, Venus, and Earth



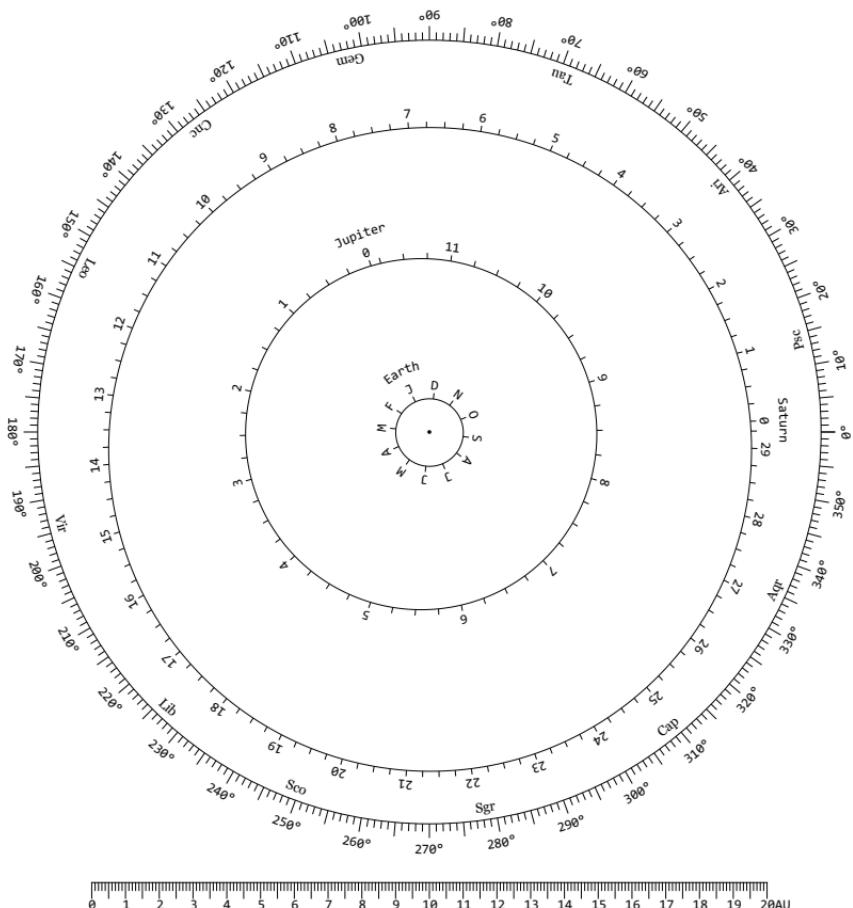
2026-01-01	0.0	0.0	2026-05-11	42.0	130.0	2026-09-18	84.1	35.3
2026-01-11	10.0	10.0	2026-05-21	52.0	140.0	2026-09-28	6.1	45.3
2026-01-21	20.0	20.0	2026-05-31	62.0	150.0	2026-10-08	16.1	55.3
2026-01-31	30.0	30.0	2026-06-10	72.0	160.0	2026-10-18	26.1	65.3
2026-02-10	40.0	40.0	2026-06-20	82.0	170.0	2026-10-28	36.1	75.3
2026-02-20	50.0	50.0	2026-06-30	4.1	180.0	2026-11-07	46.1	85.3
2026-03-02	60.0	60.0	2026-07-10	14.1	190.0	2026-11-17	56.1	95.3
2026-03-12	70.0	70.0	2026-07-20	24.1	200.0	2026-11-27	66.1	105.3
2026-03-22	80.0	80.0	2026-07-30	34.1	210.0	2026-12-07	76.1	115.3
2026-04-01	2.0	90.0	2026-08-09	44.1	220.0	2026-12-17	86.1	125.3
2026-04-11	12.0	100.0	2026-08-19	54.1	5.3	2026-12-27	8.1	135.3
2026-04-21	22.0	110.0	2026-08-29	64.1	15.3			
2026-05-01	32.0	120.0	2026-09-08	74.1	25.3			

Orbits of Earth and Mars



2026-01-01	0.0	2026-08-29	240.0	2027-04-26	480.0
2026-01-21	20.0	2026-09-18	260.0	2027-05-16	500.0
2026-02-10	40.0	2026-10-08	280.0	2027-06-05	520.0
2026-03-02	60.0	2026-10-28	300.0	2027-06-25	540.0
2026-03-22	80.0	2026-11-17	320.0	2027-07-15	560.0
2026-04-11	100.0	2026-12-07	340.0	2027-08-04	580.0
2026-05-01	120.0	2026-12-27	360.0	2027-08-24	600.0
2026-05-21	140.0	2027-01-16	380.0	2027-09-13	620.0
2026-06-10	160.0	2027-02-05	400.0	2027-10-03	640.0
2026-06-30	180.0	2027-02-25	420.0	2027-10-23	660.0
2026-07-20	200.0	2027-03-17	440.0	2027-11-12	680.0
2026-08-09	220.0	2027-04-06	460.0		

Orbits of Earth, Jupiter, and Saturn



2026-01-01	0.0	0.0	2038-01-01	0.1	12.0	2050-01-01	0.3	24.0
2027-01-01	1.0	1.0	2039-01-01	1.1	13.0	2051-01-01	1.3	25.0
2028-01-01	2.0	2.0	2040-01-01	2.1	14.0	2052-01-01	2.3	26.0
2029-01-01	3.0	3.0	2041-01-01	3.1	15.0	2053-01-01	3.3	27.0
2030-01-01	4.0	4.0	2042-01-01	4.1	16.0	2054-01-01	4.3	28.0
2031-01-01	5.0	5.0	2043-01-01	5.1	17.0	2055-01-01	5.3	29.0
2032-01-01	6.0	6.0	2044-01-01	6.1	18.0			
2033-01-01	7.0	7.0	2045-01-01	7.1	19.0			
2034-01-01	8.0	8.0	2046-01-01	8.1	20.0			
2035-01-01	9.0	9.0	2047-01-01	9.1	21.0			
2036-01-01	10.0	10.0	2048-01-01	10.1	22.0			
2037-01-01	11.0	11.0	2049-01-01	11.1	23.0			

Notes

2026

January

S	M	T	W	T	F	S
1	2	3				
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

February

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

March

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April

S	M	T	W	T	F	S
1	2	3	4			
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May

S	M	T	W	T	F	S
1	2	3	4			
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

June

S	M	T	W	T	F	S
1	2	3	4	5	6	7
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July

S	M	T	W	T	F	S
1	2	3	4			
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August

S	M	T	W	T	F	S
1						
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October

S	M	T	W	T	F	S
1	2	3				
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December

S	M	T	W	T	F	S
1	2	3	4	5	6	7
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		