

The Planetary Hours: The Timing

Planetary Hours: A Complete Guide, Lecture 3

Planetary Day

A period of time from one sunrise to the next sunrise.
Ruled by the planet, corresponding to the day of the week, on which the sunrise occurs.

The length of a planetary hour is a variable,
not a constant!

Planetary Day

- 12 day hours.
- 12 night hours.
- 12 day hours are equal to each other. They start at sunrise and continue until sunset.
- 12 night hours are equal to each other. They start at sunset and continue until the next day's sunrise.
- In the winter, day hours are shorter than the night hours. In the summer, it's the reverse.

New York
December 25, 2018

Planetary hours?

07:18

Tuesday, 25 December 2018 (GMT-5)
Sunrise in New York, NY, USA

Feedback

Sunrise and sunset times in New York, December 2018

<https://www.timeanddate.com/sun/usa/new-york?month=12> ▼

... of **sunrise** and sunset in **New York – New York – USA** for **December 2018**. ... 3, 7:02 am ↑ (119°), 4:28 pm ↑ (241°), 9:26:13, –1:11, 5:25 am, 6:06 pm, 5:58 ...

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December 2018 — Sun in New York

◀ November

December

January ▶

Month:

December

▼

Year:

2018

▼

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2018	Sunrise/Sunset		Daylength		Astronomical Twilight		Nautical Twilight		Civil Twilight		Solar Noon	
Dec	Sunrise	Sunset	Length	Difference	Start	End	Start	End	Start	End	Time	Mil. km
▼ 1	07:00 ↘(119°)	16:29 ↙(241°)	9:28:39	−1:18	05:23	18:06	05:56	17:33	06:30	16:59	11:45 (27.5°)	147.508

▼ 22	07:17 ↘(121°)	16:32 ↙(239°)	9:15:19	+0:01	05:38	18:11	06:11	17:37	06:46	17:03	11:54 (25.9°)	147.148
▼ 23	07:17 ↘(121°)	16:32 ↙(239°)	9:15:24	+0:05	05:38	18:11	06:12	17:38	06:46	17:03	11:55 (25.9°)	147.139
▼ 24	07:17 ↘(121°)	16:33 ↙(239°)	9:15:33	+0:09	05:39	18:12	06:12	17:38	06:46	17:04	11:55 (25.9°)	147.132
▼ 25	07:18 ↘(121°)	16:34 ↙(239°)	9:15:47	+0:13	05:39	18:12	06:12	17:39	06:47	17:05	11:56 (25.9°)	147.125
▼ 26	07:18 ↘(121°)	16:34 ↙(239°)	9:16:04	+0:17	05:39	18:13	06:13	17:40	06:47	17:05	11:56 (26.0°)	147.119
▼ 27	07:18 ↘(121°)	16:35 ↙(239°)	9:16:26	+0:21	05:40	18:14	06:13	17:40	06:48	17:06	11:57 (26.0°)	147.114
▼ 28	07:19 ↘(121°)	16:36 ↙(239°)	9:16:51	+0:25	05:40	18:14	06:13	17:41	06:48	17:07	11:57 (26.1°)	147.110
▼ 29	07:19 ↘(120°)	16:36 ↙(240°)	9:17:20	+0:29	05:40	18:15	06:14	17:42	06:48	17:07	11:58 (26.1°)	147.106

New York, December 25, 2018

- Sunrise: 07:18
- Sunset: 16:34
- Next sunrise: 07:18

The Length of the Day

- Sunset – sunrise = length of the day
- 16:34 – 7:18 = 9:16

The Length of the Night

- Next day's sunrise – sunset = length of the night
 - $7:18 + 24:00 = 31:18$
 - $31:18 - 16:34 = 14:44$
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- The length of the day + the length of the night = close to 24 hours
 - $9:16 + 14:44 = 24:00$

The Length of a Day Hour

- The length of the day / 12 = the length of a day hour
- $(9 \times 60) + 16 = 556$
- $556 / 12 = 46.3333$

The length of a day hour: 46 minutes.

The Length of a Night Hour

- The length of the night / 12 = the length of a night hour
- $(14 \times 60) + 44 = 884$
- $884 / 12 = 73.6666$

The length of a night hour: 1 hour 14 minutes.

The Timing of the Planetary Hours

	Day Hours		Night Hours
1	7: 18 – 8:04	1	16:34 – 17:48
2	8:04 – 8:50	2	17:48 – 19:02
3	8:50 – 9:36	3	19:02 – 20:16
4	9:36 – 10:22	4	20:16 – 21:30
5	10:22 – 11:06	5	21:30 – 22:44
6	11:06 – 11:52	6	22:44 – 23:58
7	11:52 – 12:38	7	23:58 – 1:12
8	12:38 – 13:24	8	1:12 – 2:26
9	13:24 – 14:10	9	2:26 – 3:40
10	14:10 – 14:56	10	3:40 – 4:54
11	14:56 – 15:42	11	4:54 – 6:08
12	15:42 – 16:34	12	6:08 – 7:18