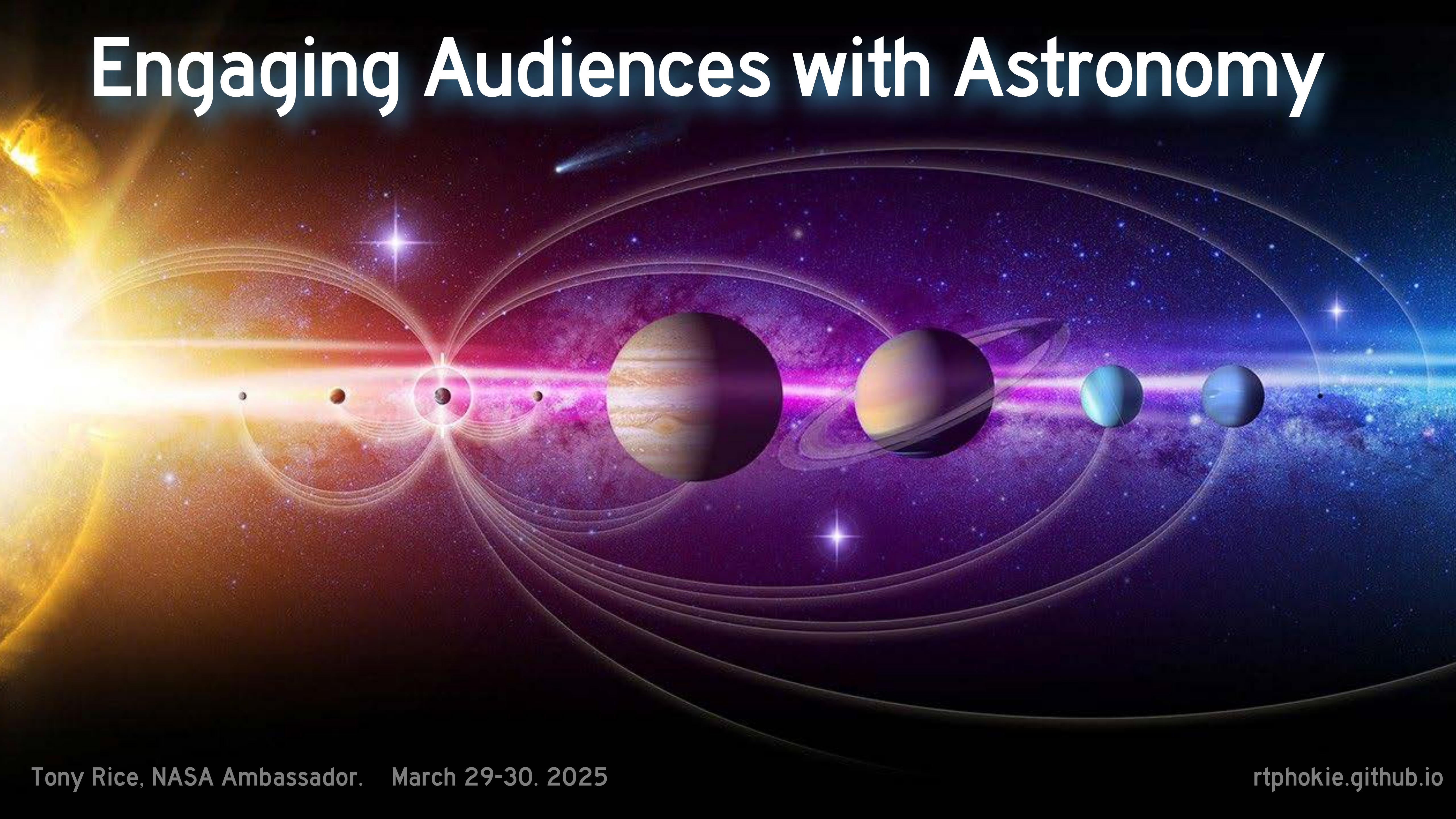
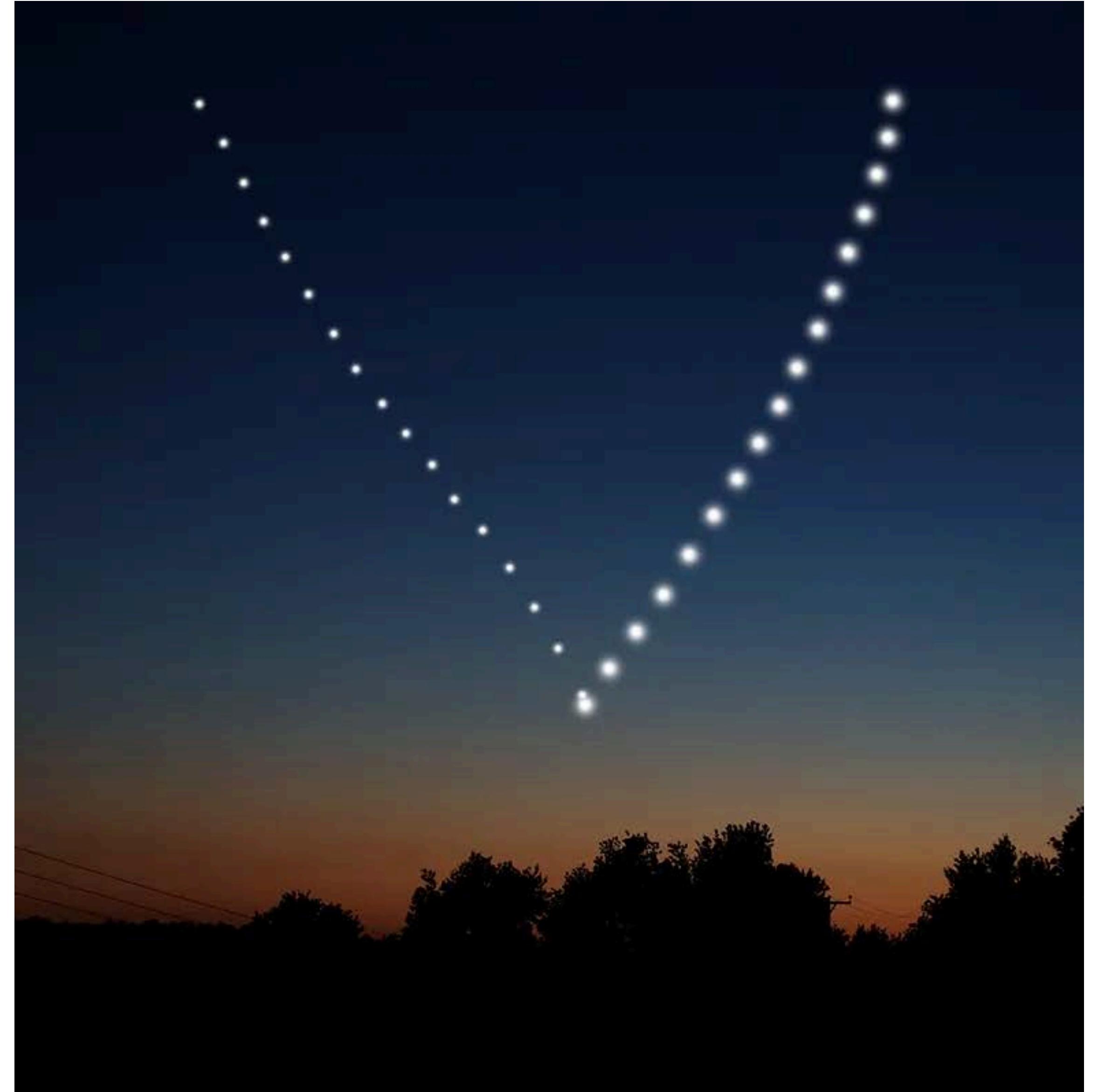


Engaging Audiences with Astronomy

A vibrant, colorful illustration of a solar system. In the center is a bright yellow sun with several small black dots representing planets in their orbits. One large planet, resembling Jupiter with its brown and white stripes, is prominent. To its right are two smaller planets with blue and greenish-blue surfaces. Further out are two more small planets. The background is a deep purple and blue, filled with numerous small white stars of varying sizes.

Conjunctions

Occurs frequently
Nearly 100% reliable
Horribly reported



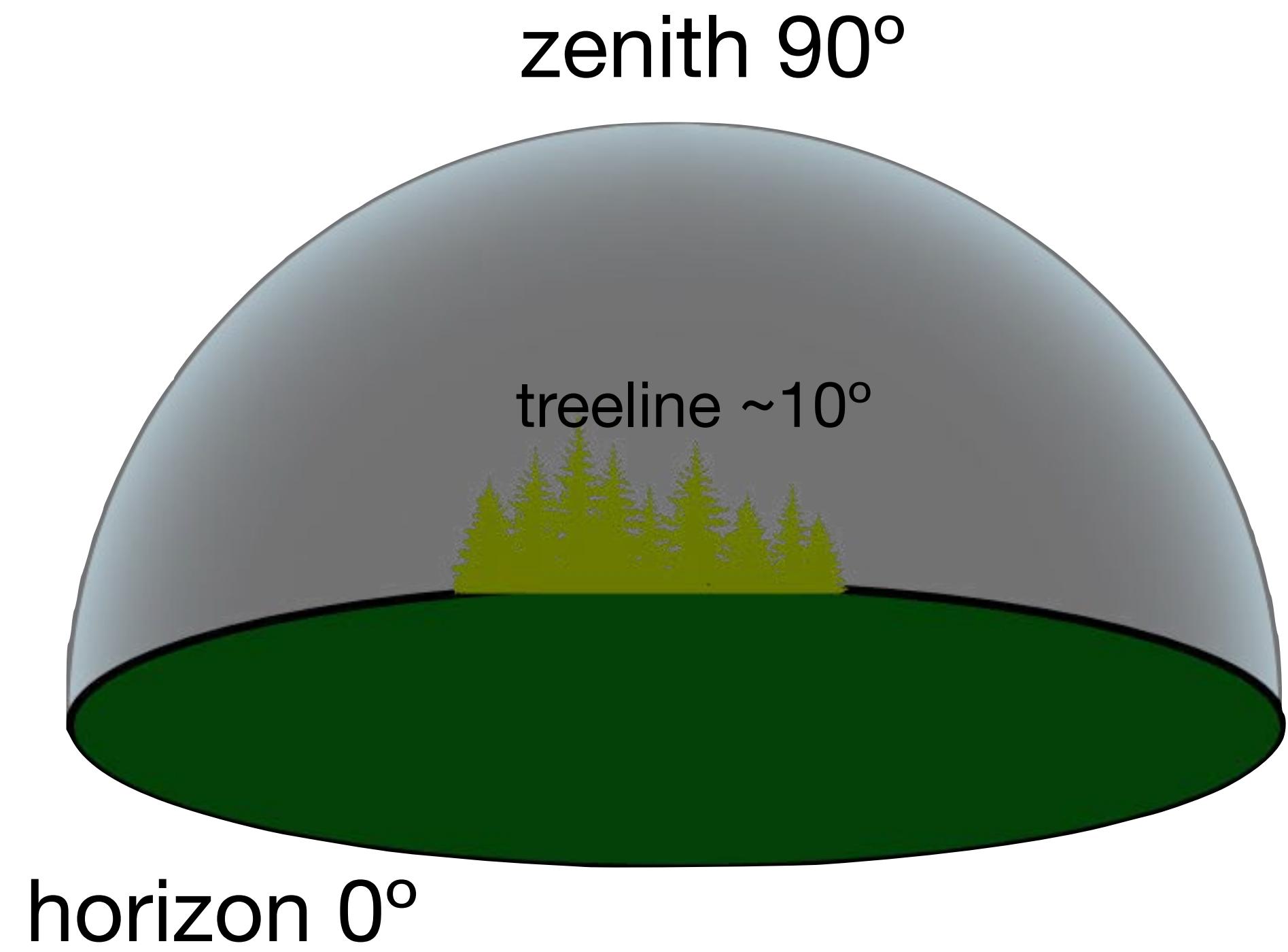
Saturn and Jupiter Conjunction, Dec. 22, 2020
Bill Ingalls, NASA HQ

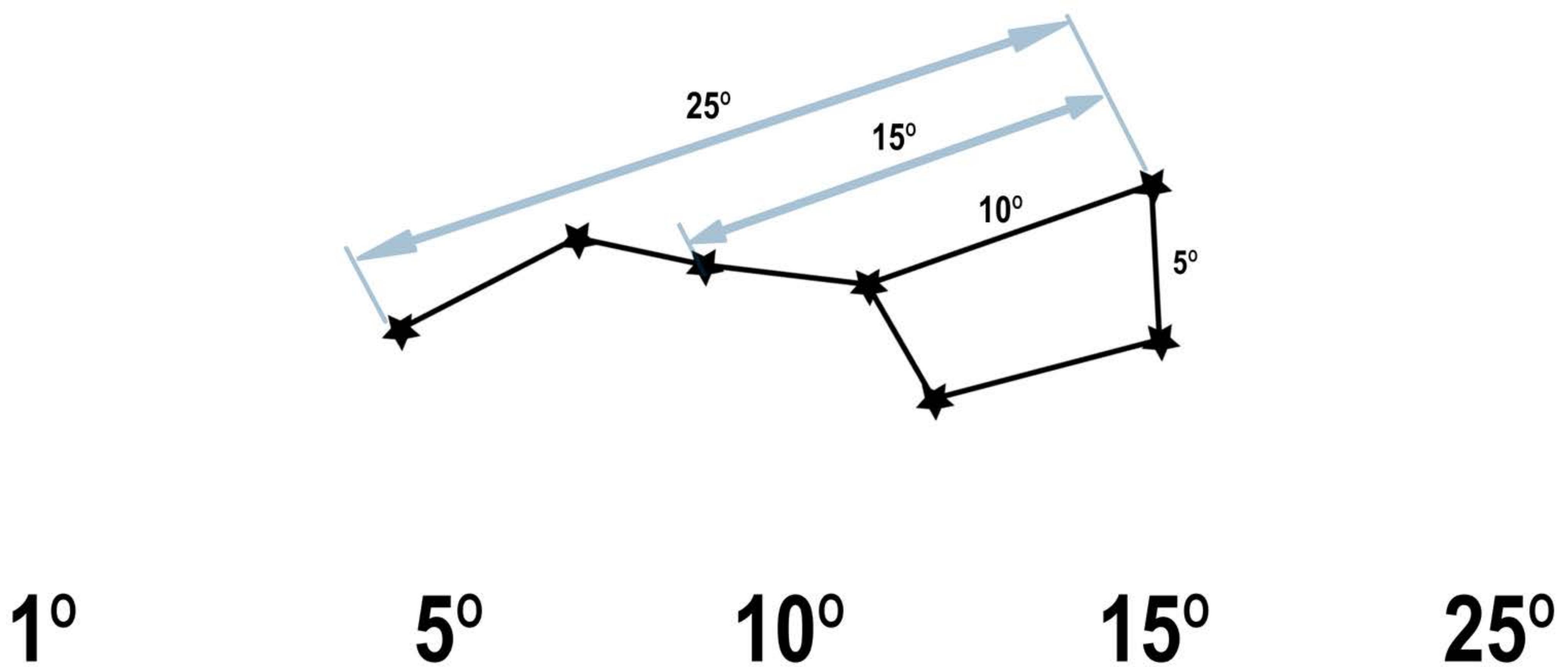


Saturn and Jupiter Conjunction, Dec. 22, 2020
Bill Ingalls, NASA HQ

Upcoming Conjunctions 2025

Date		Bodies		Separation
APR	2	Moon	Jupiter	5°30'
	5	Moon	Mars	2°09'
	24	Moon	Venus	2°23'
	25	Moon	Saturn	2°17'
	28	Venus	Saturn	3°43'
	30	Moon	Jupiter	5°23'
MAY	3	Moon	Mars	2°03'
	22	Moon	Saturn	2°49'
	23	Moon	Venus	3°59'
JUN	1	Moon	Mars	1°23'
	18	Moon	Saturn	3°23'
	22	Moon	Venus	7°10'
	29	Moon	Mars	12'

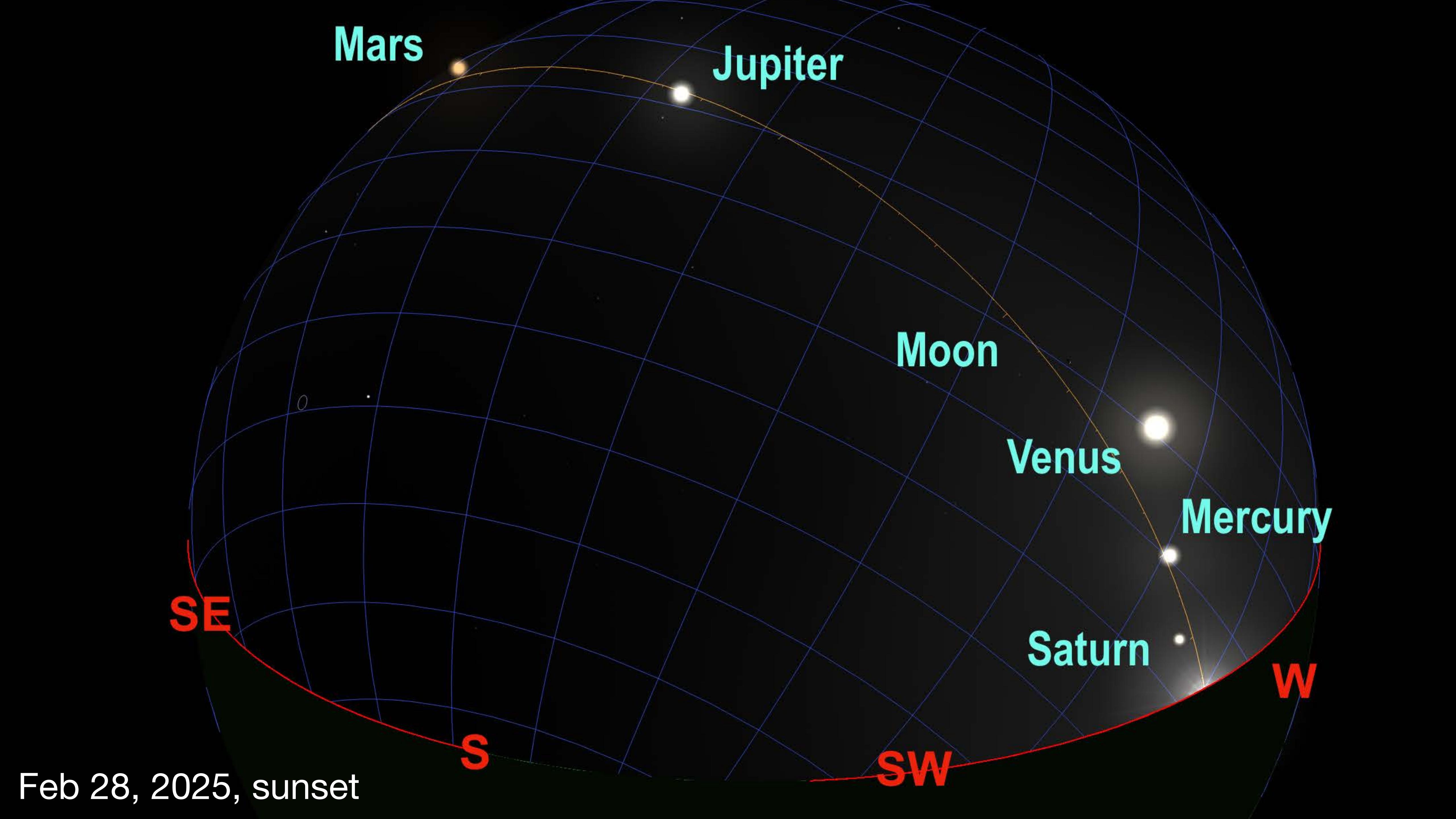




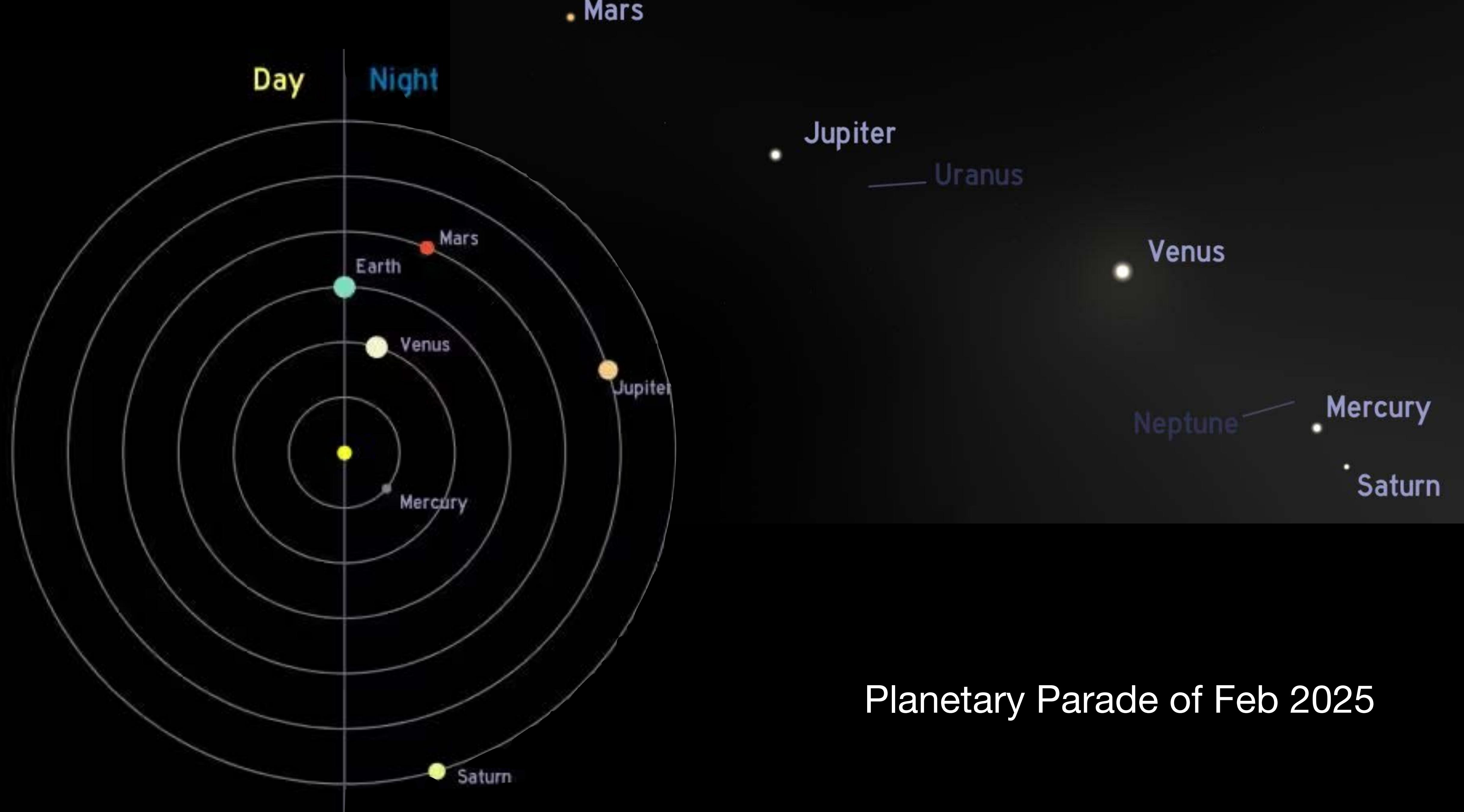


December Solstice 2005
Santa Severa, Italy
by Danilo Pivato

The Ecliptic



Feb 28, 2025, sunset



You Can Witness a Stunning 'Parade of Planets' Tonight—and There Won't Be Another Until 2040

On Feb. 28, seven planets will all grace the early evening sky.

Planet parade 2025: When and how to see the planetary alignment

Here's why there are suddenly so many planets visible in the night sky and how long you can look forward to seeing them.

A rare 'parade' of all 7 planets will move across the night sky this week

Watch 'rare' planetary parade online for free today as 7 planets align across the sky

Once-in-a-generation planet parade tonight: How to see the rare 7-planet alignment

A rare occurrence, the planet parade is an event any astronomy fan should try to catch.



Seven planets will align on Friday for the last time until 2040. Here's how to see it in Toronto

The planetary parade won't happen again until 2040 — and you don't even need to leave the city to see it.

2 lucky zodiac signs on the day of parade of planets on February 28, 2025

On February 28, 2025, two zodiac signs are poised to welcome abundance and good fortune into their daily horoscope.

Rare planetary parade will see SEVEN planets align in the night sky for the last time until 2040 - and you don't even need a telescope to see them



You Can Witness a Stunning 'Parade of Planets' Tonight—and There Won't Be Another Until ~~2040~~

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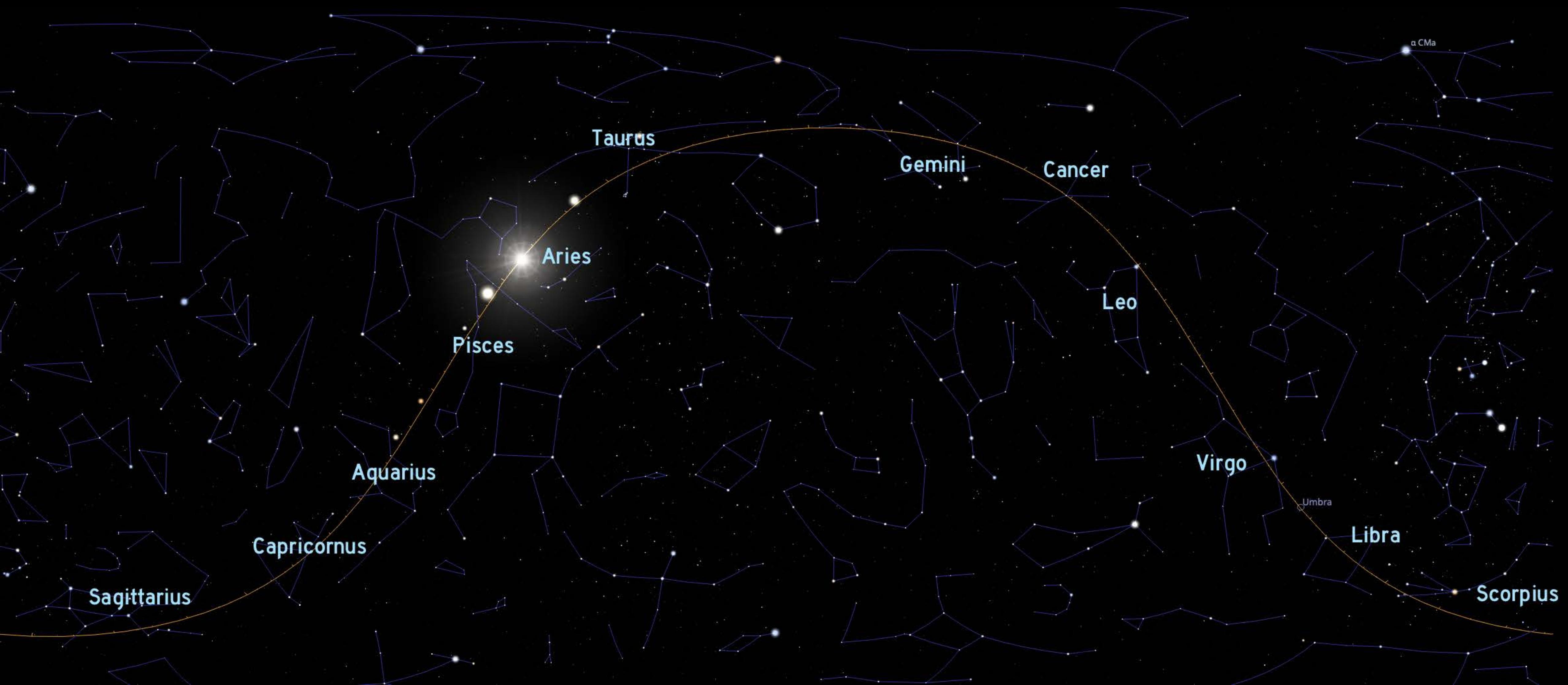
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Zodiacal Constellations



Meteor Showers

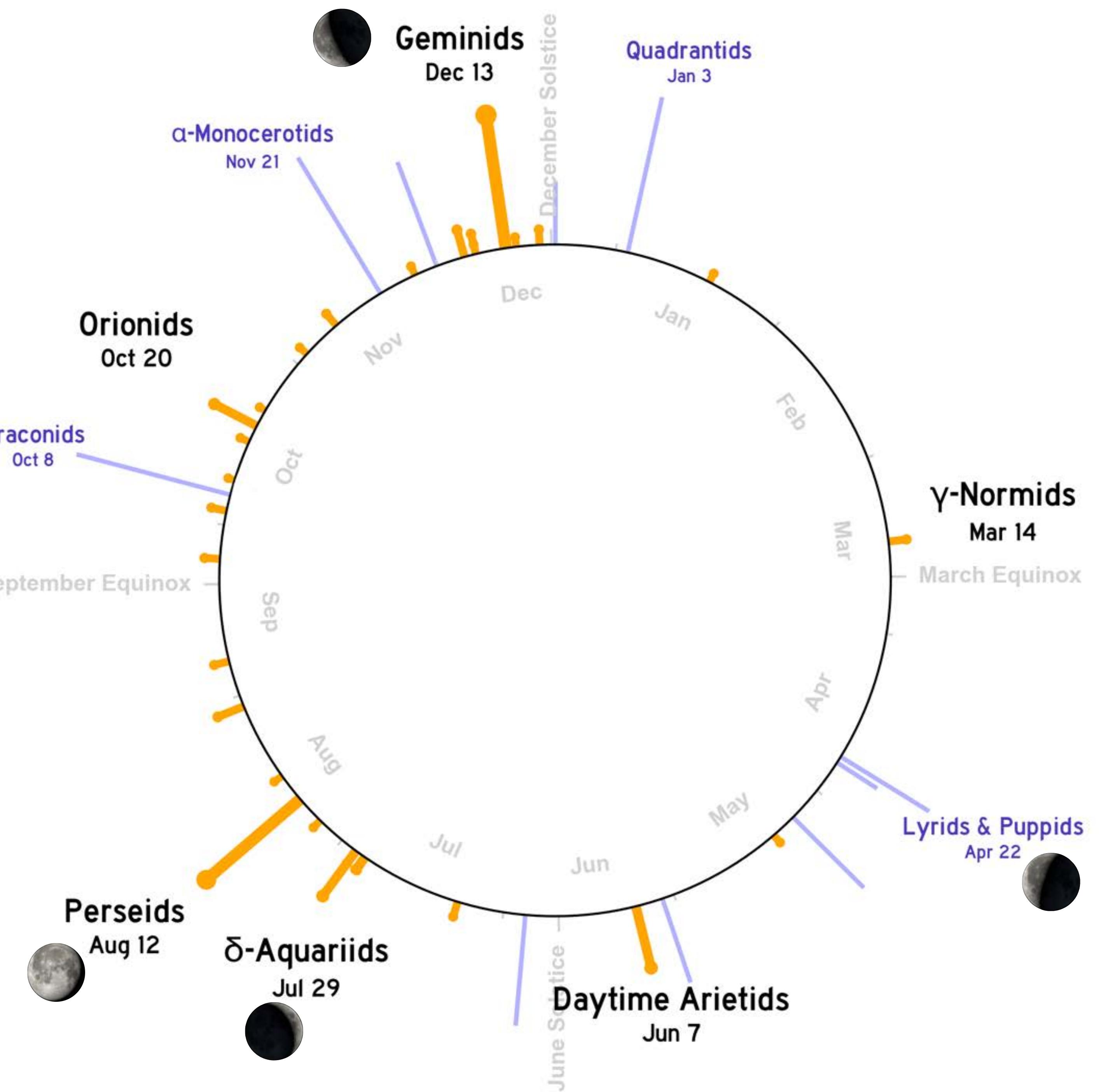
Setting expectations



Comet C/2023 A3 / Tsuchinshan-ATLAS

October 2024



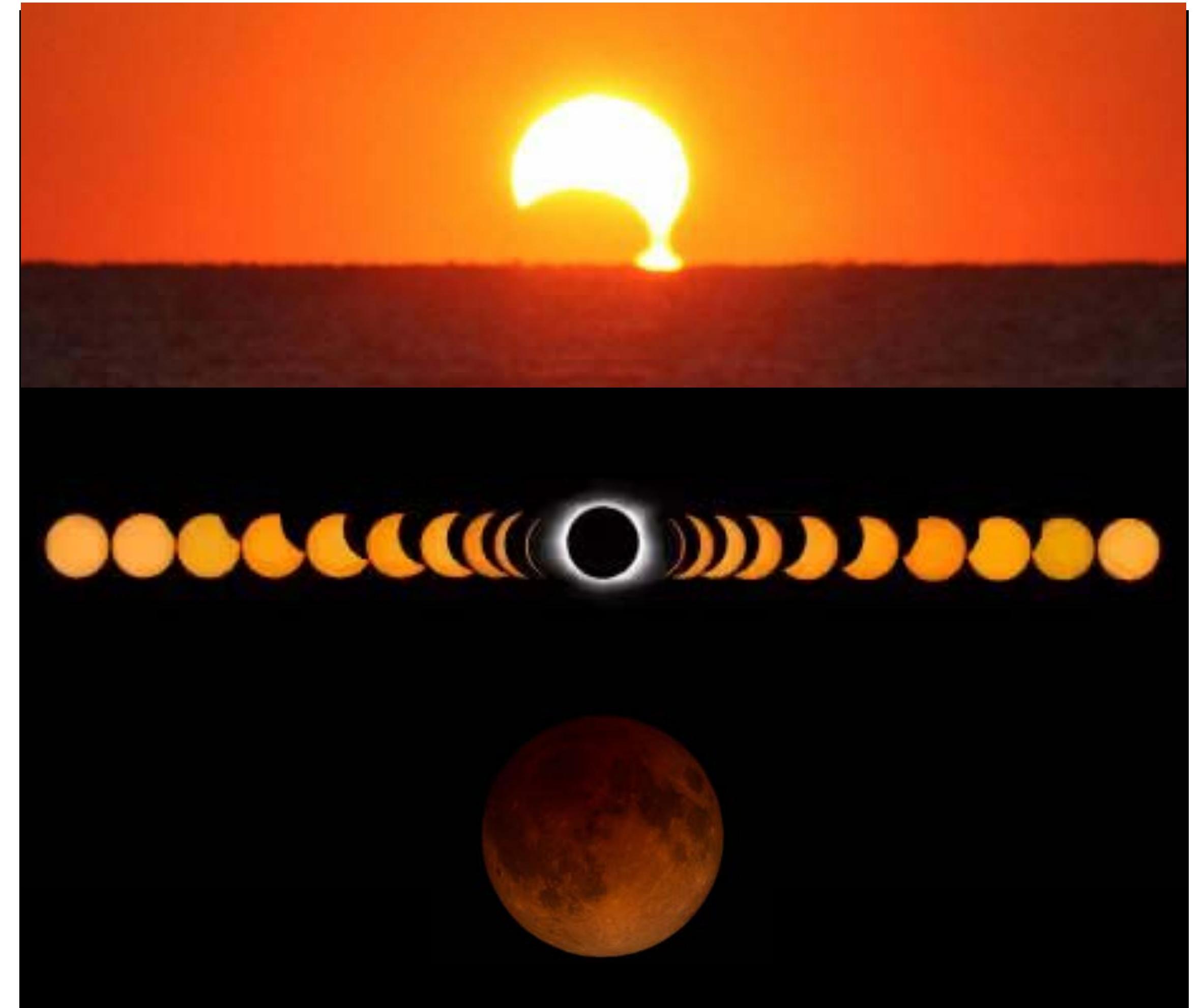


Meteor Shower Advice

- Darker skies = more meteors
- Leave your phone inside
- Give your eyes time to adjust, at least 15 minutes
- Look away from light pollution

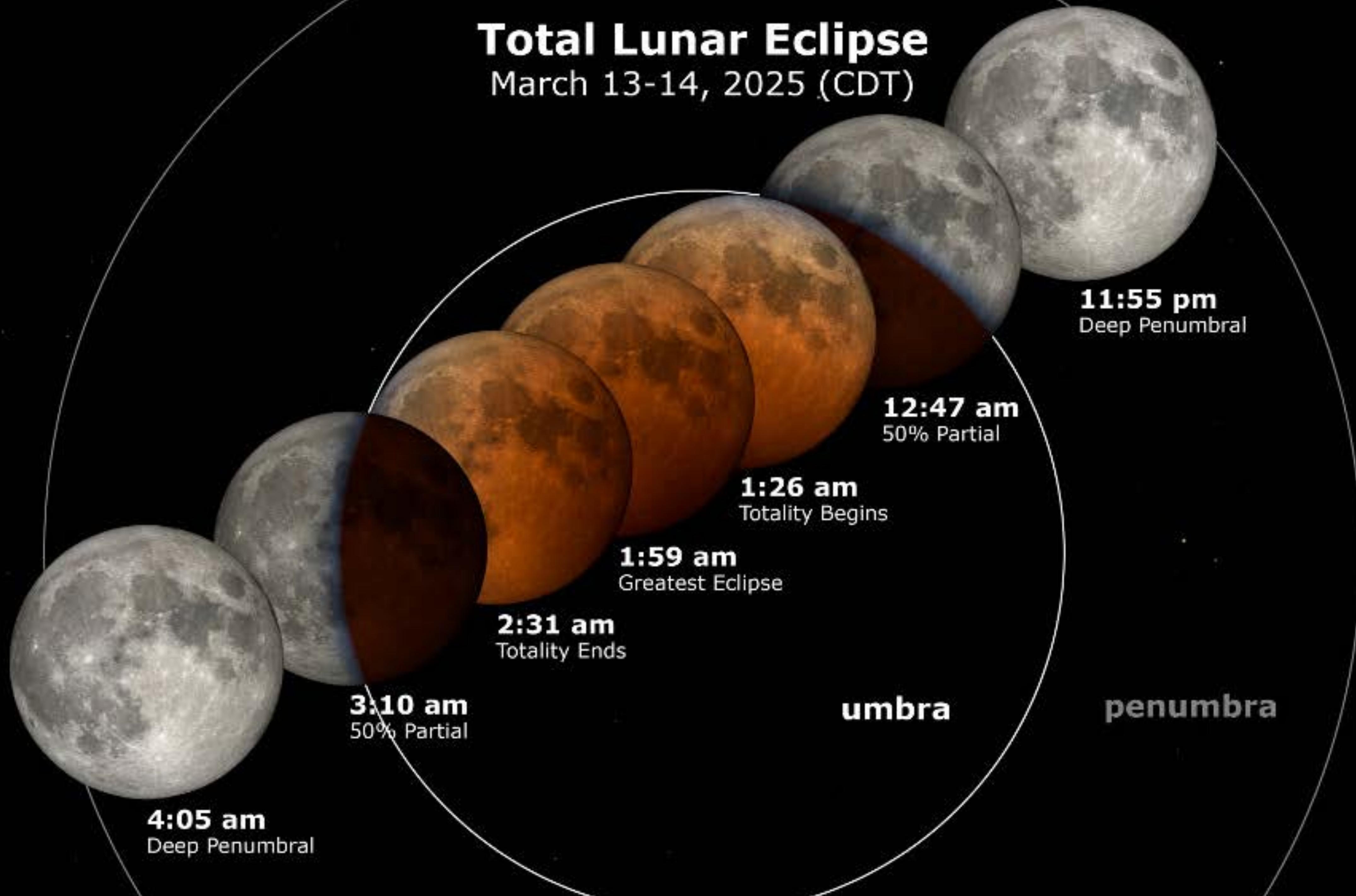
Eclipses

Localize the story



Total Lunar Eclipse

March 13-14, 2025 (CDT)



Mobile Solar Eclipses Past & Future



Partial Eclipse

Last: Apr 2024
Next: Jun 2028

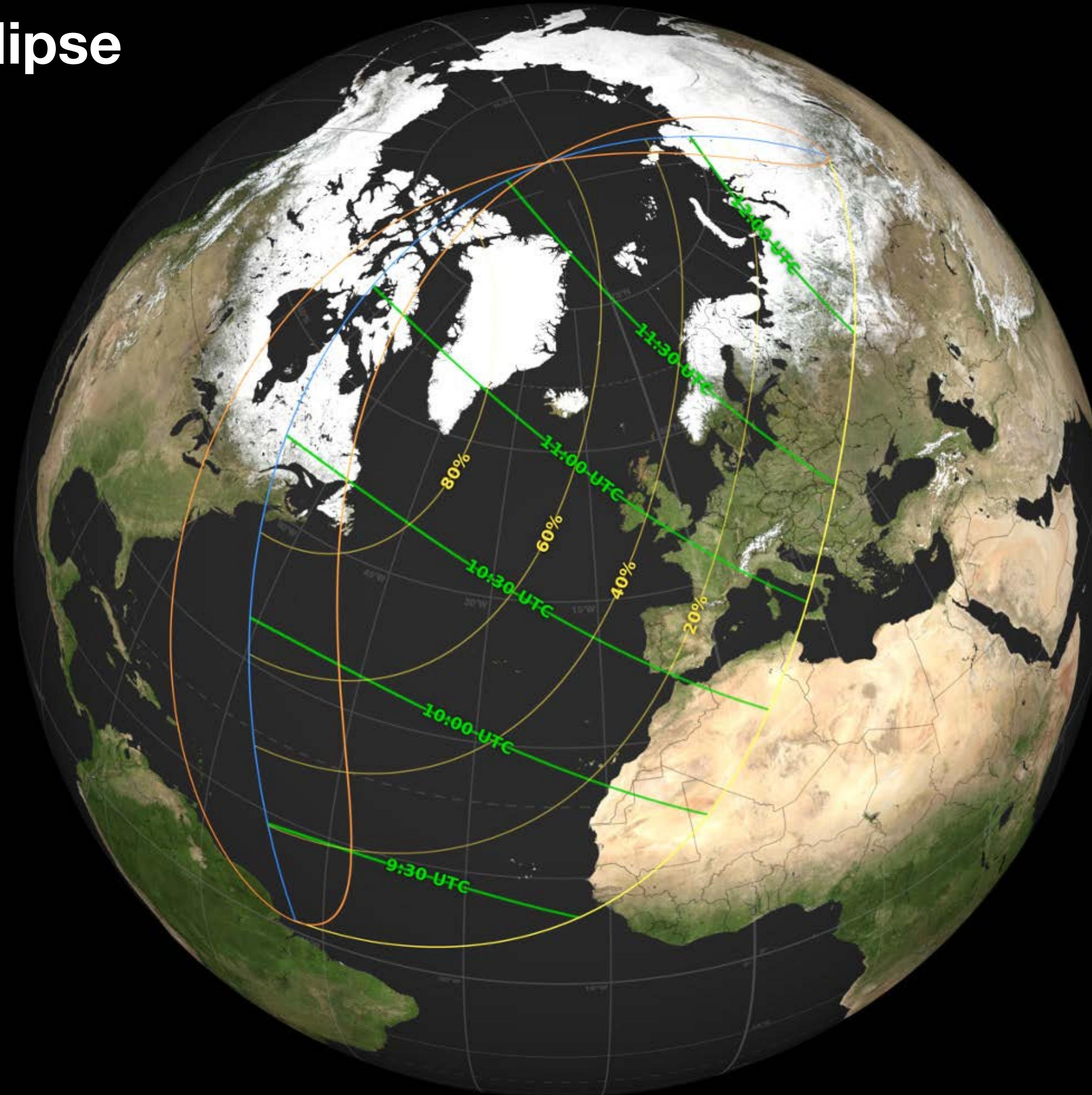
Annular Eclipse

Last: 1940
Next: 2238

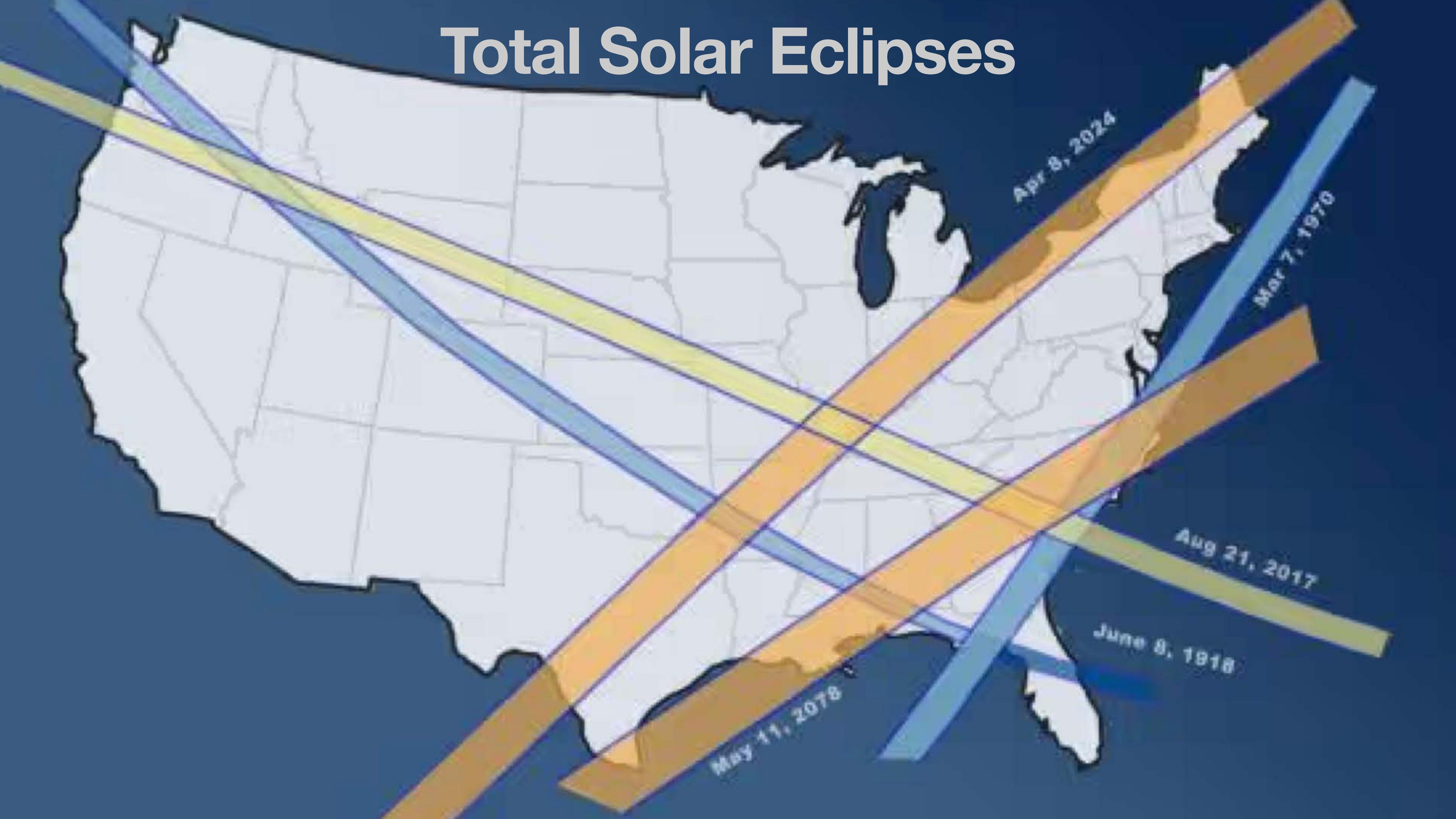
Total Eclipse

Last: 1778
Next: 2078

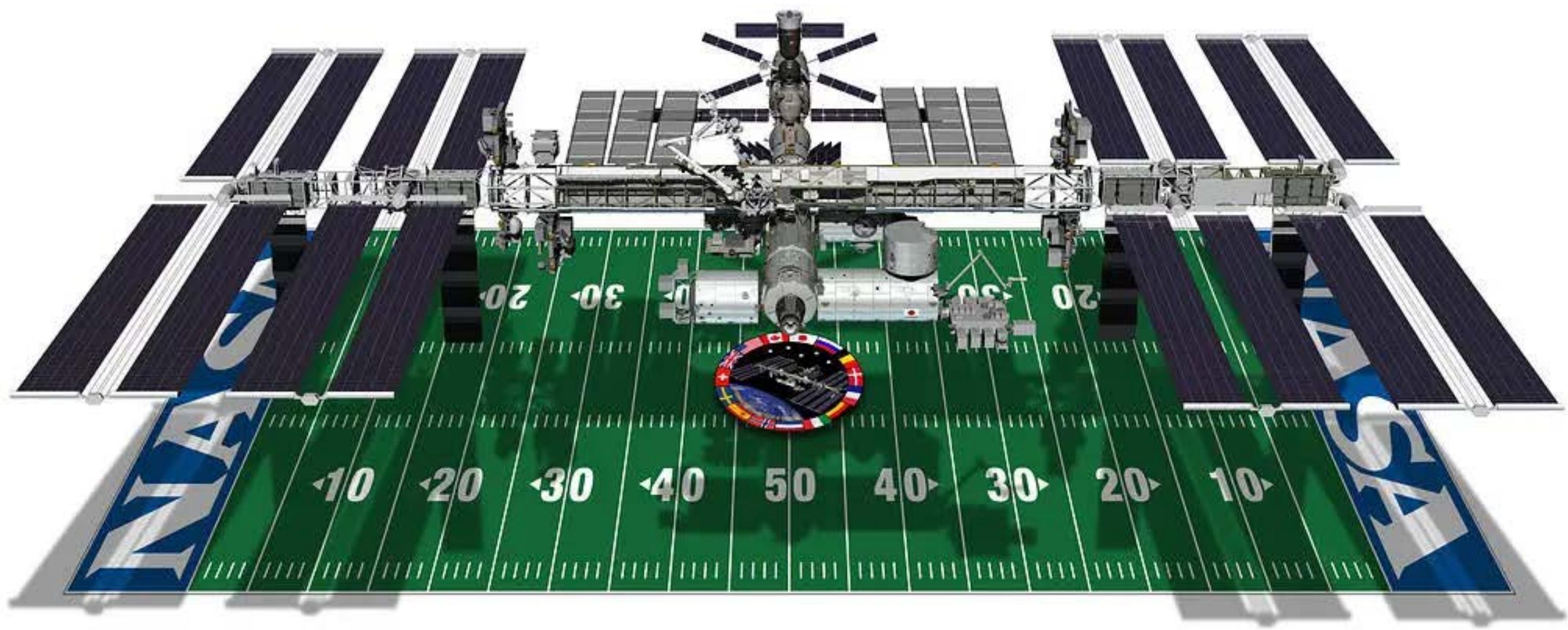
March 29, 2025 Partial Solar Eclipse



Total Solar Eclipses

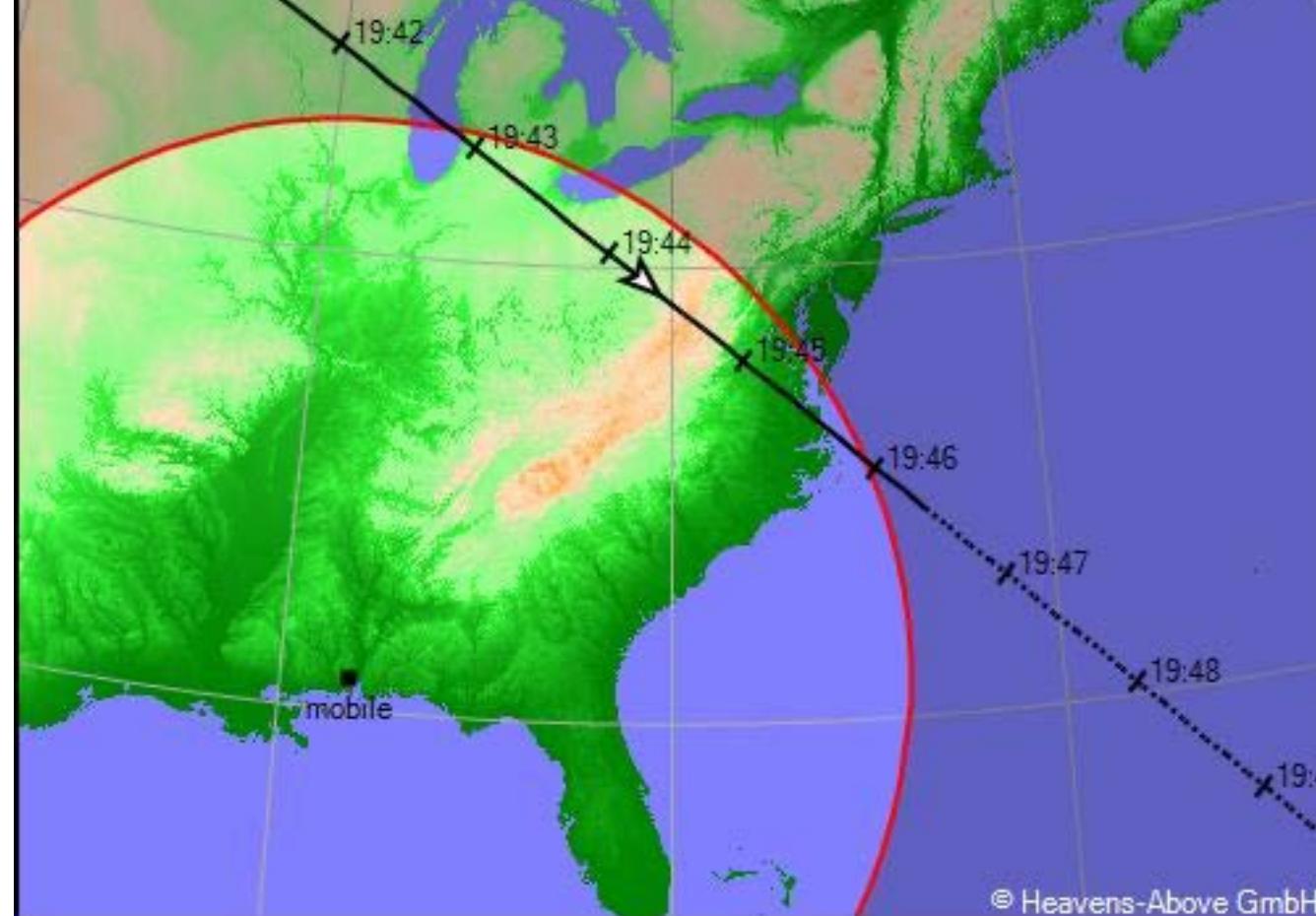


ISS Passes



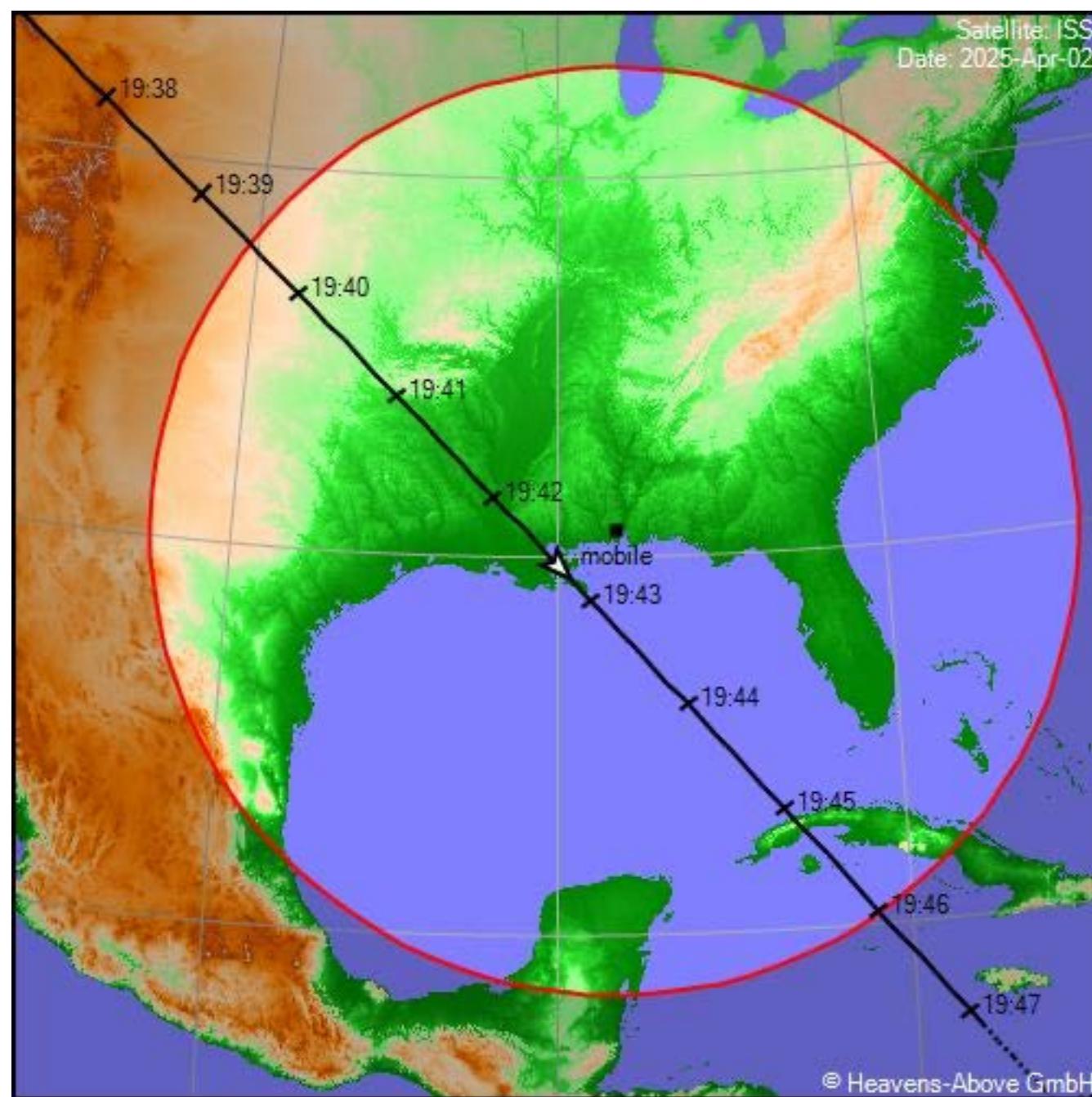
Visible ISS passes from Mobile

Date	Brightne	Start			Highest point			End		
	(mag)	Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.
29 Mar	-1.5	19:42:47	10°	N	19:44:22	13°	NNE	19:45:58	10°	ENE
29 Mar	-1.2	21:18:03	10°	NW	21:19:22	21°	WNW	21:19:22	21°	WNW
30 Mar	-3.9	20:29:20	10°	NW	20:32:39	67°	NE	20:33:00	60°	E
31 Mar	-2.8	19:40:46	10°	NNW	19:43:50	33°	NE	19:46:42	11°	ESE
31 Mar	-0.9	21:18:18	10°	W	21:19:37	14°	WSW	21:19:37	14°	WSW
01 Apr	-2.1	20:28:39	10°	WNW	20:31:36	30°	SW	20:33:22	18°	S
02 Apr	-3.4	19:39:29	10°	NW	19:42:47	65°	SW	19:46:04	10°	SE
04 Apr	-1.0	19:38:59	10°	W	19:41:16	17°	SW	19:43:33	10°	S



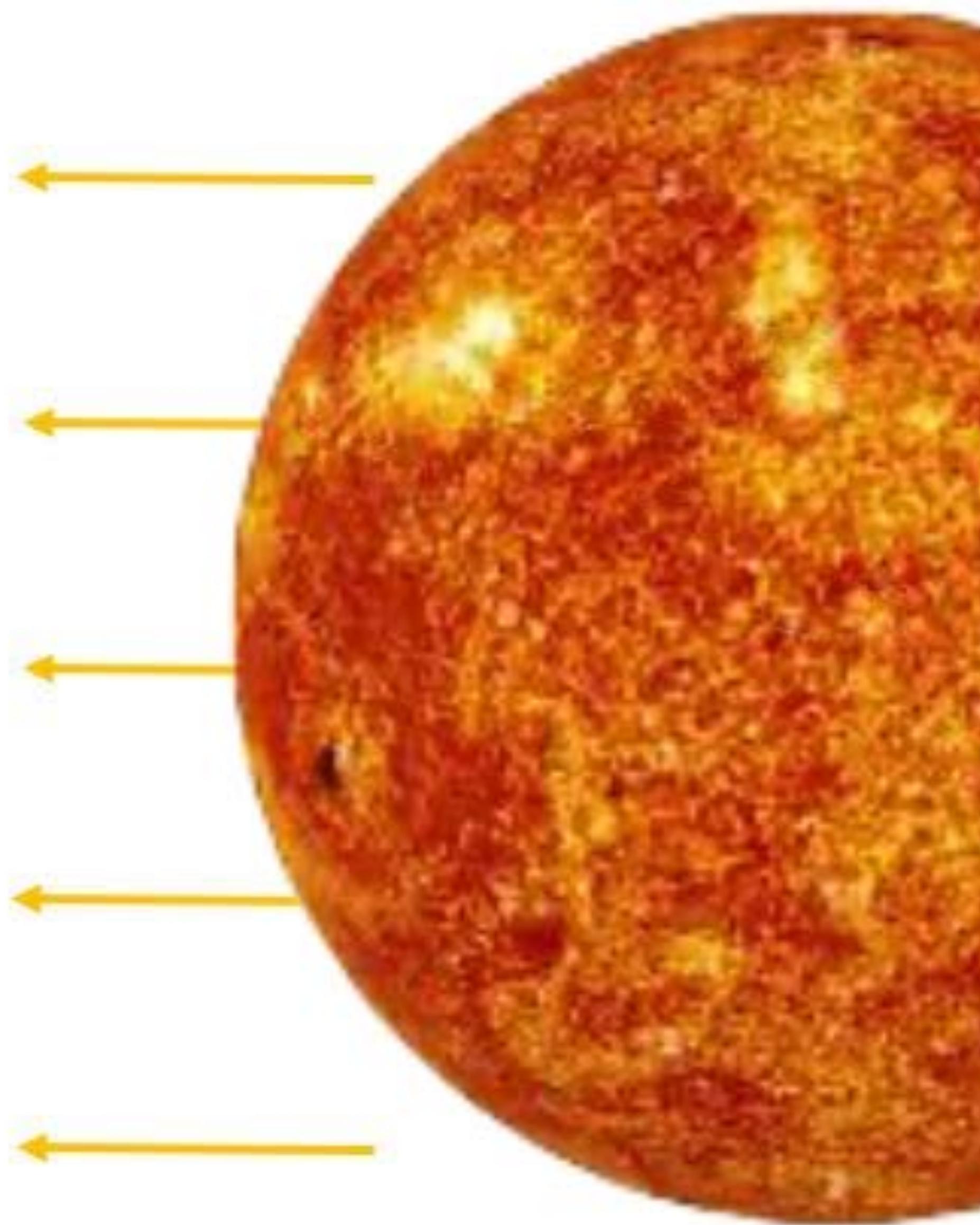
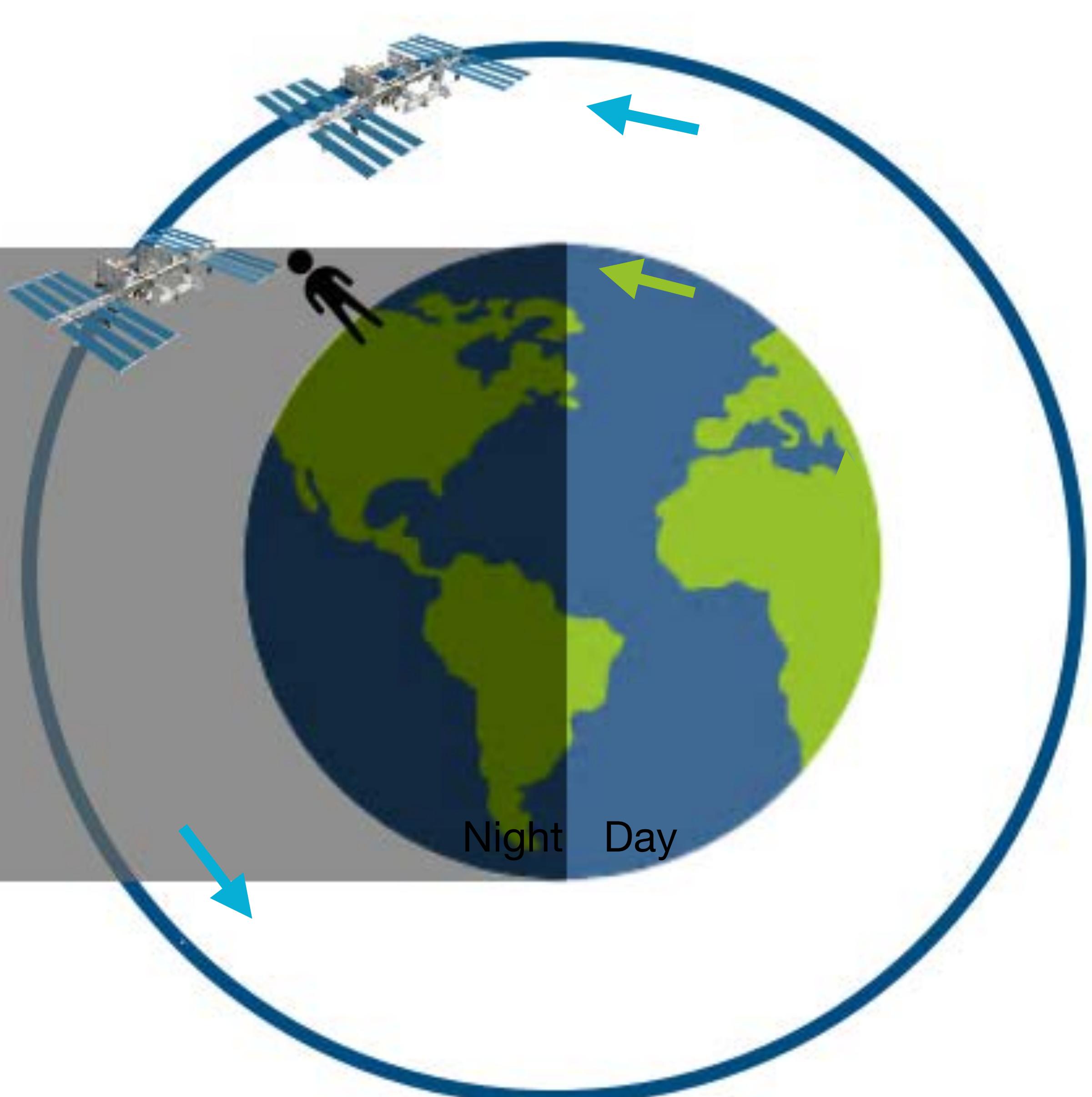
© Heavens-Above GmbH

29 Mar	-1.2	21:18:03	10°	NW	21:19:22	21°	WNW	21:19:22	21°	WNW
30 Mar	-3.9	20:29:20	10°	NW	20:32:39	67°	NE	20:33:00	60°	E



© Heavens-Above GmbH

Why satellites are visible at twilight



Shameless Plug

Weekly AstroWX email list

- Weekly email list
 - Highlights astronomy events
 - Ready to InstaTweet with graphic
 - ISS passes
 - Eclipses
 - Visible Launches
 - Which meteor showers to hype, which to skip



rrtphokie.github.io