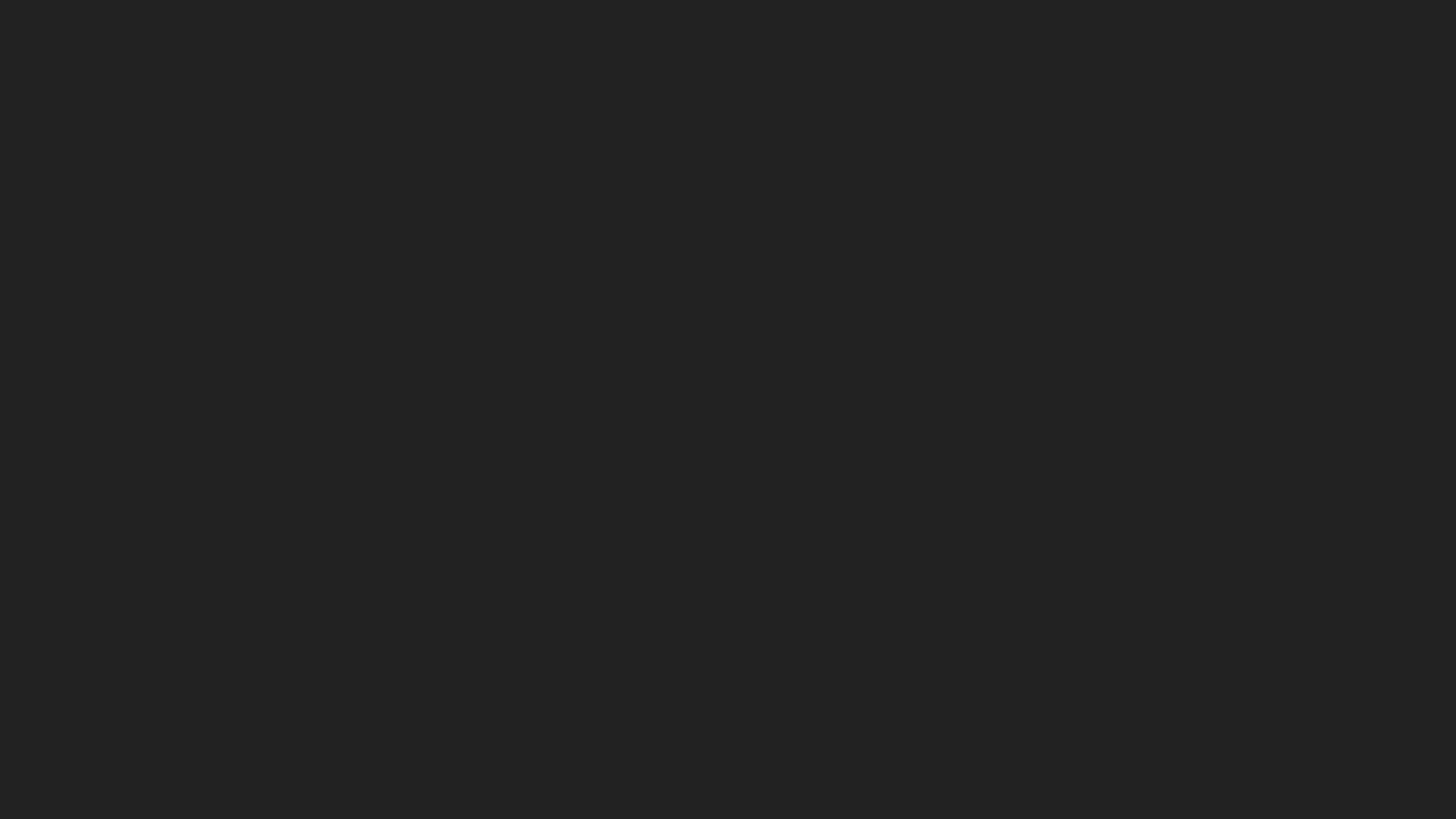
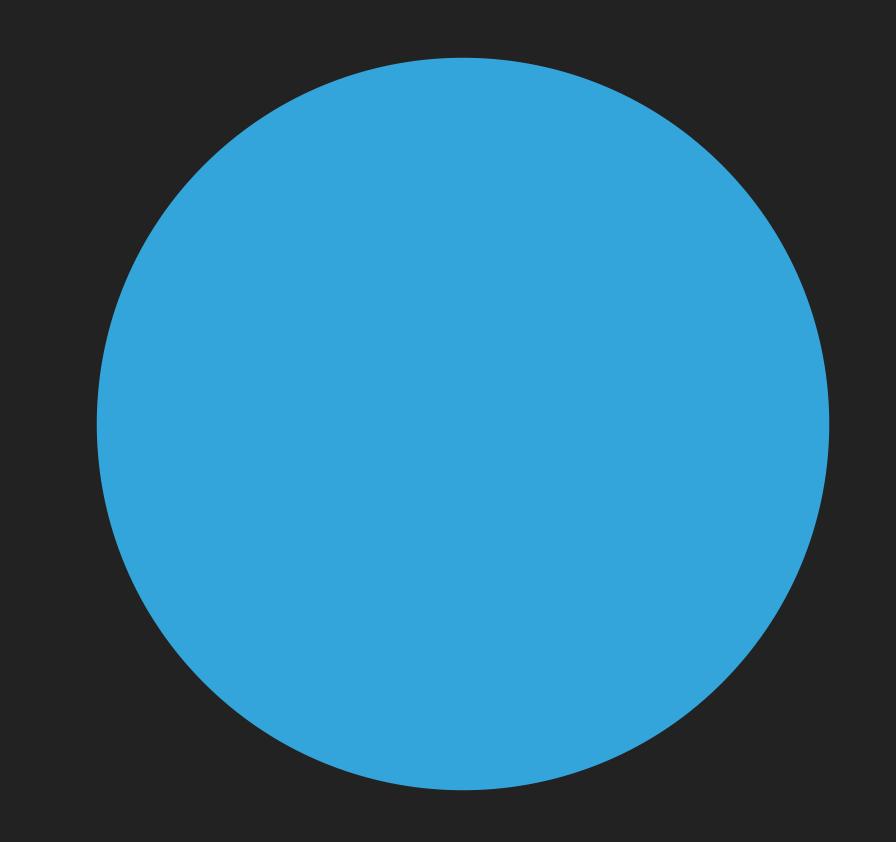
### NOW:

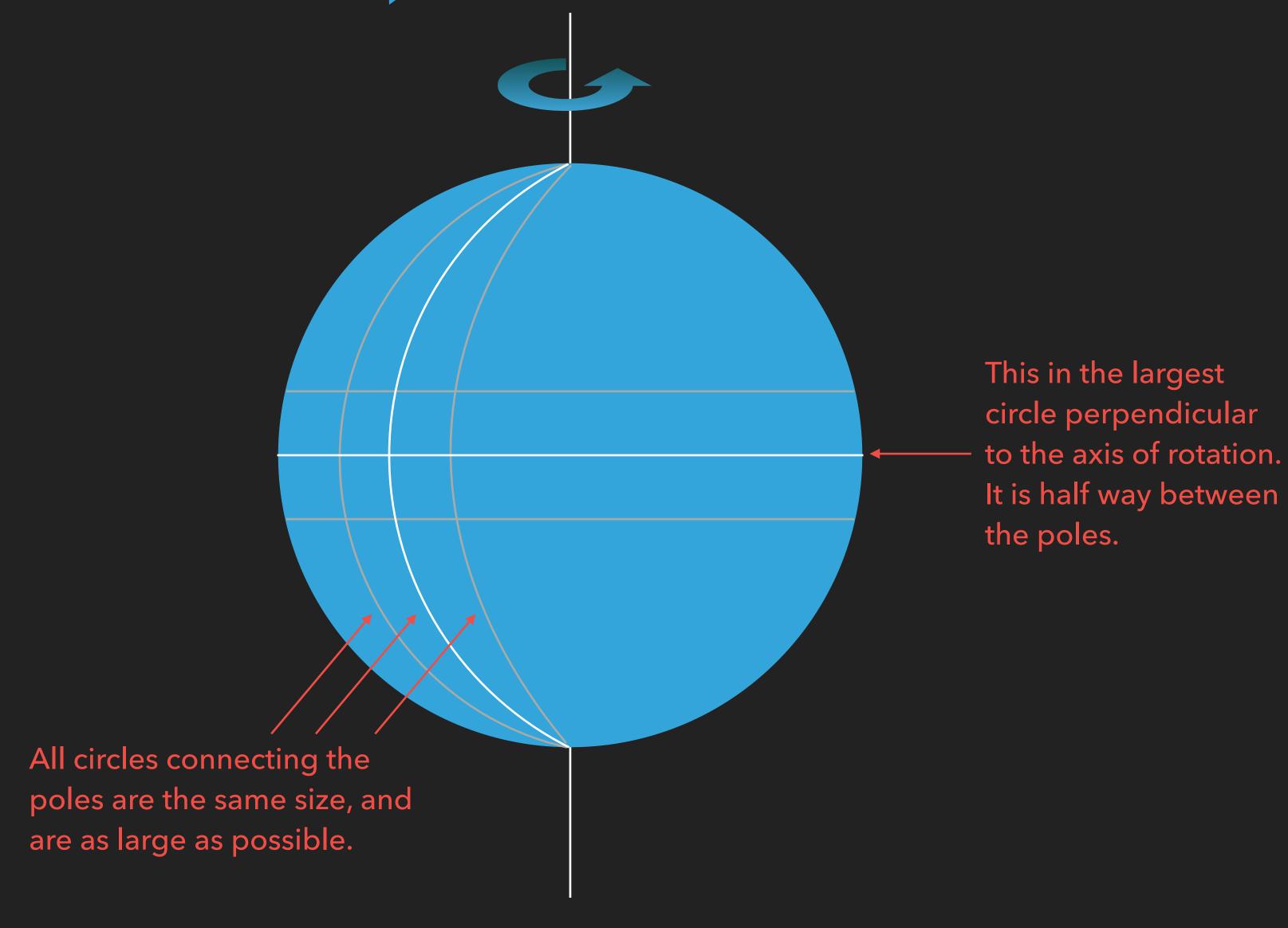


### SPACE

### A SPHERE IN SPACE

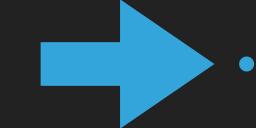


### A SPHERE IN SPACE, SPINNING



### RELATIVE SIZE, SUN 109X EARTH'S DIAMETER

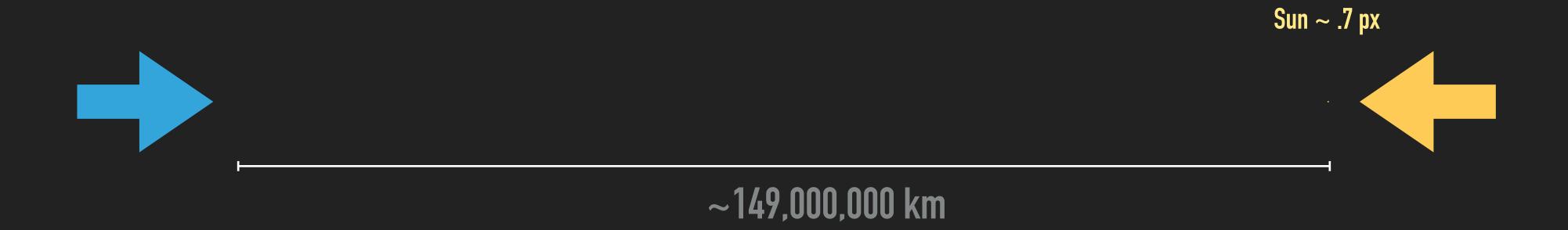
12,742 km

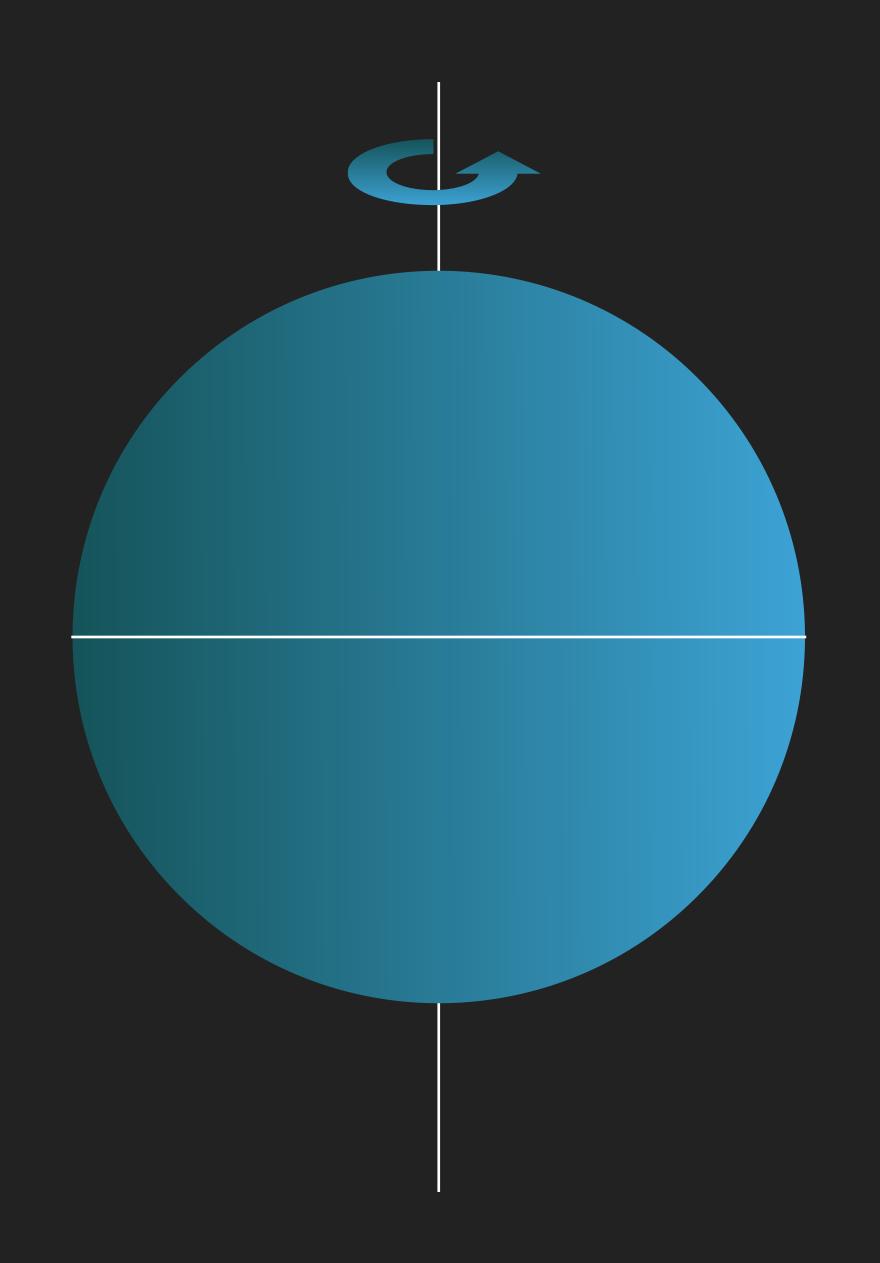


1,392,000 km

~149,000,000 km (not to scale)

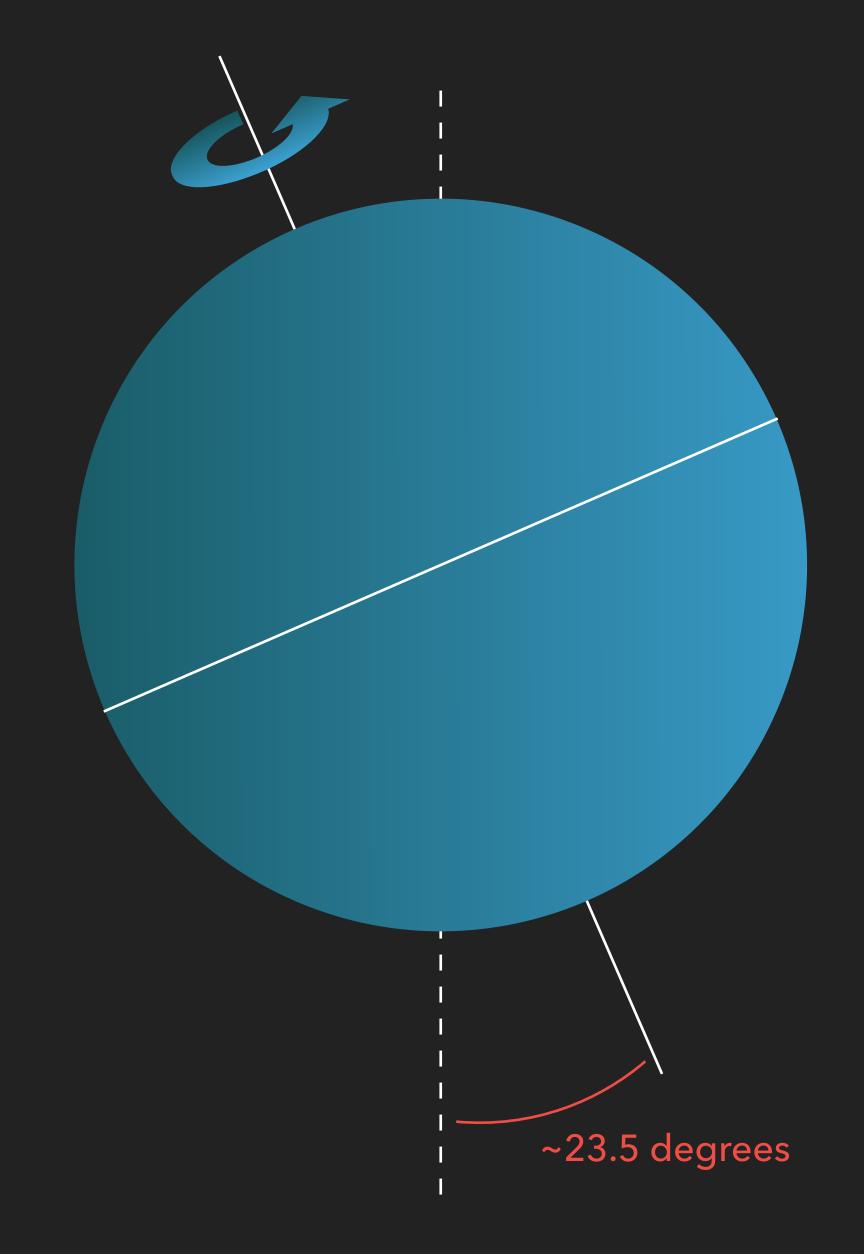
### RELATIVE DISTANCE, EARTH NOT VISIBLE

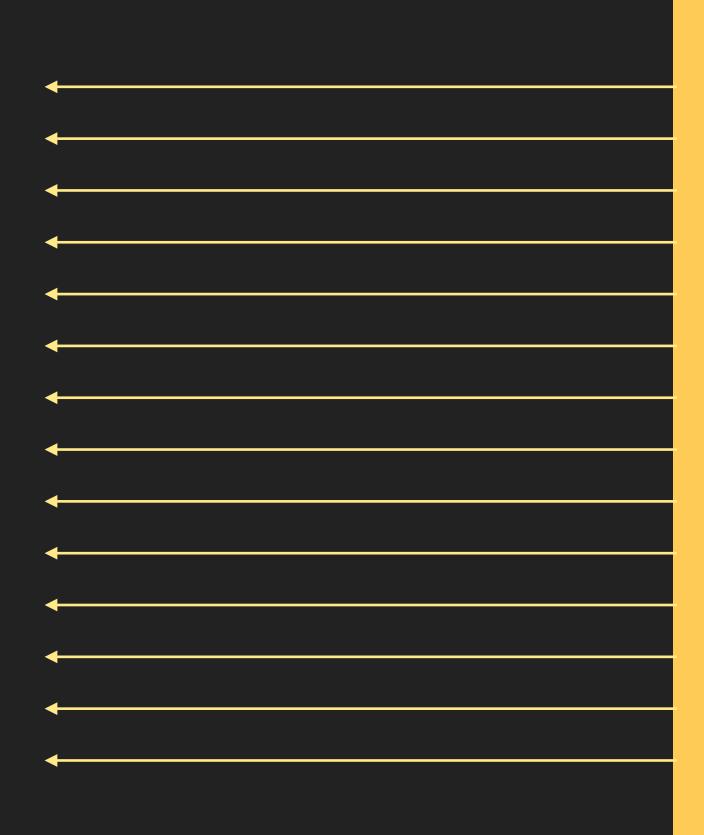




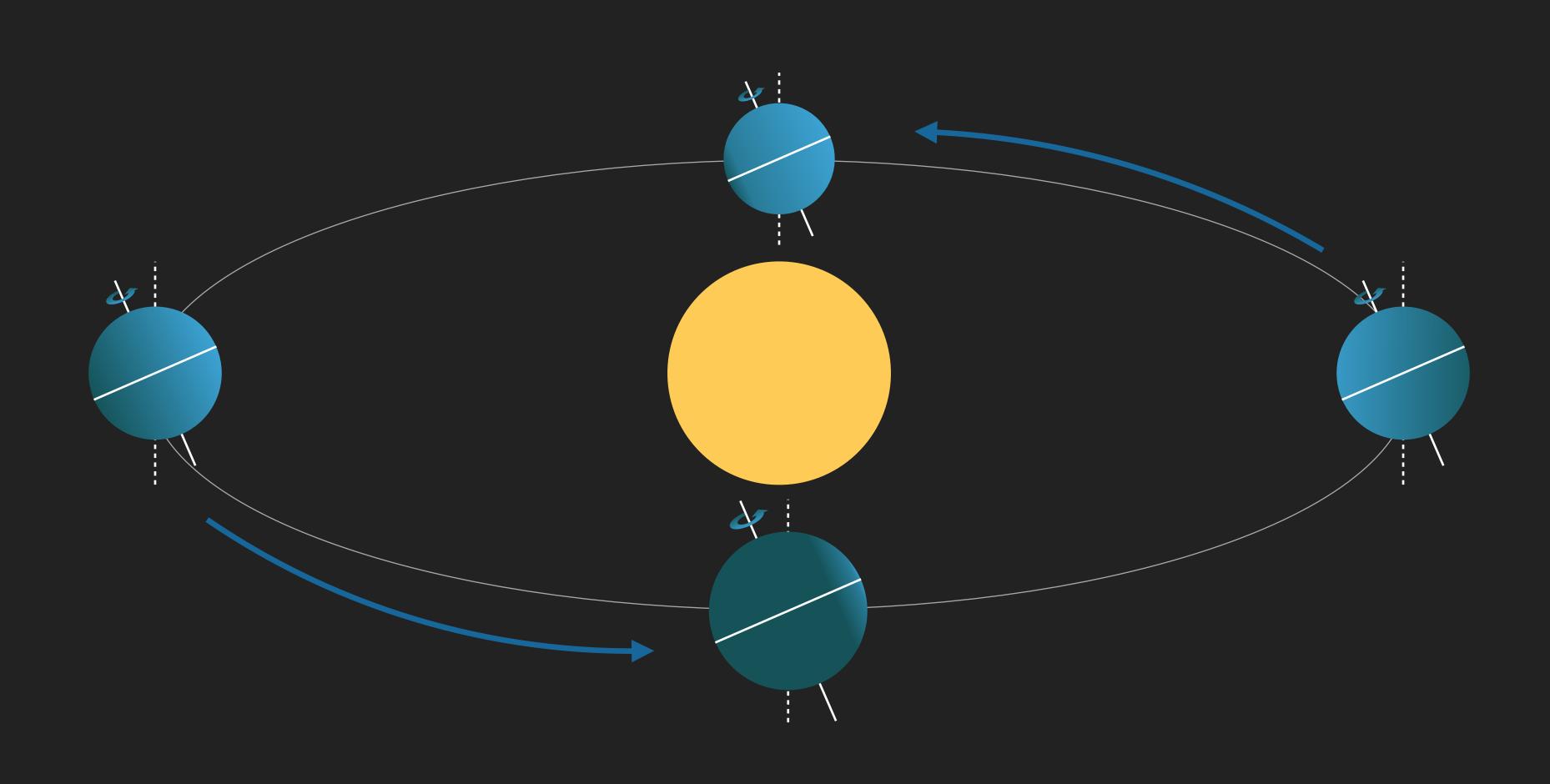
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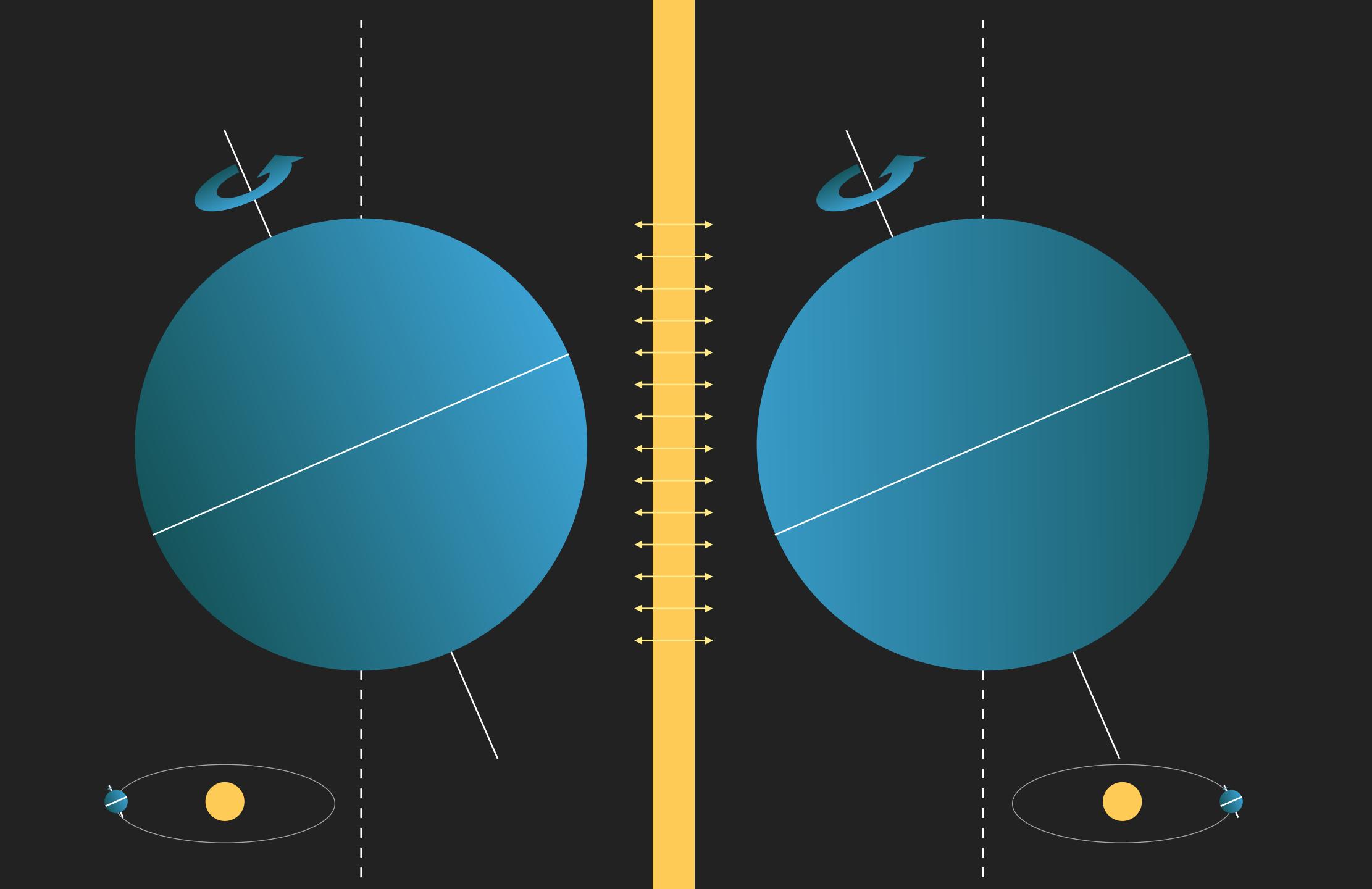
### A SPHERE IN SPACE, SPINNING, TILTED

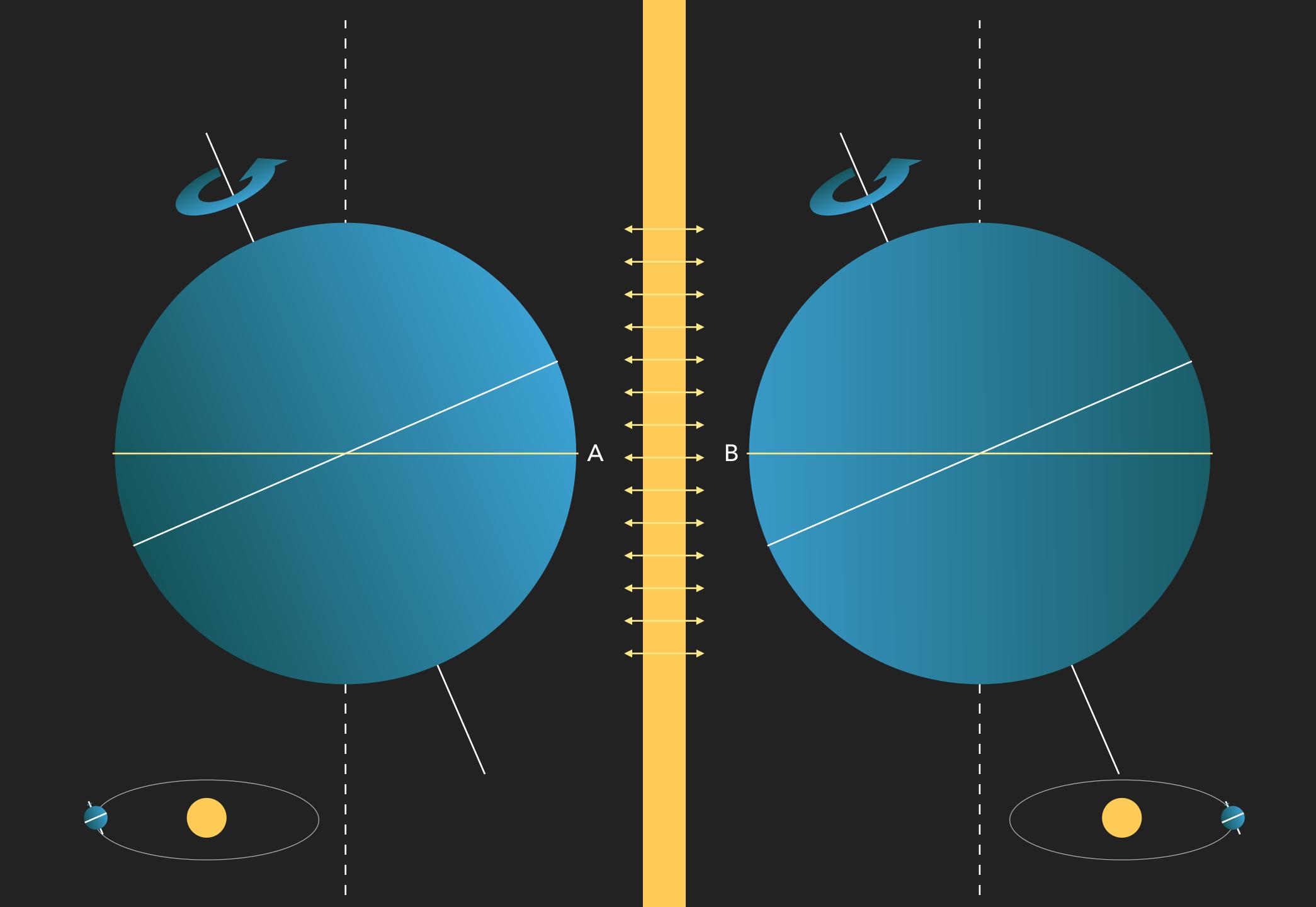


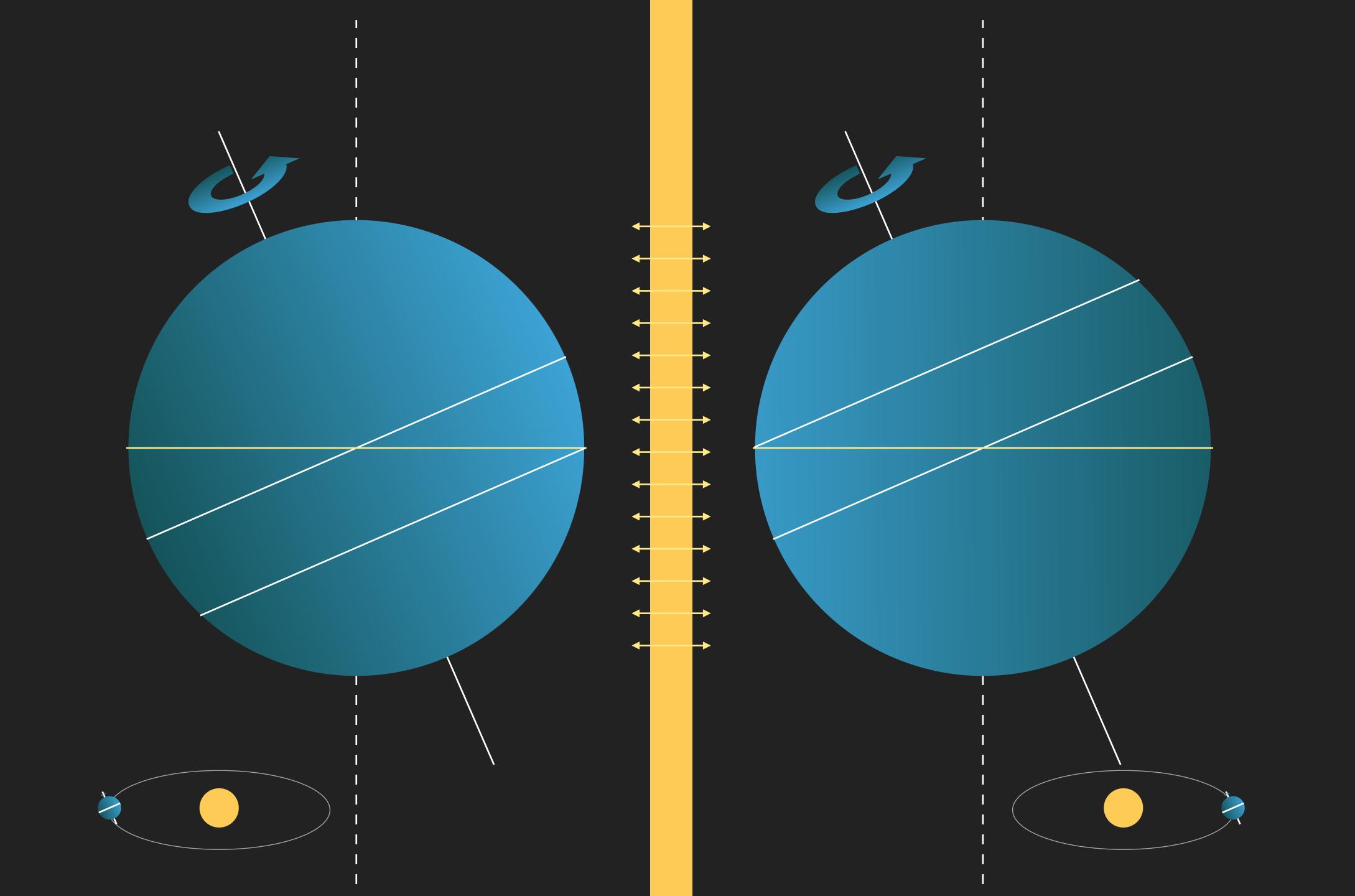


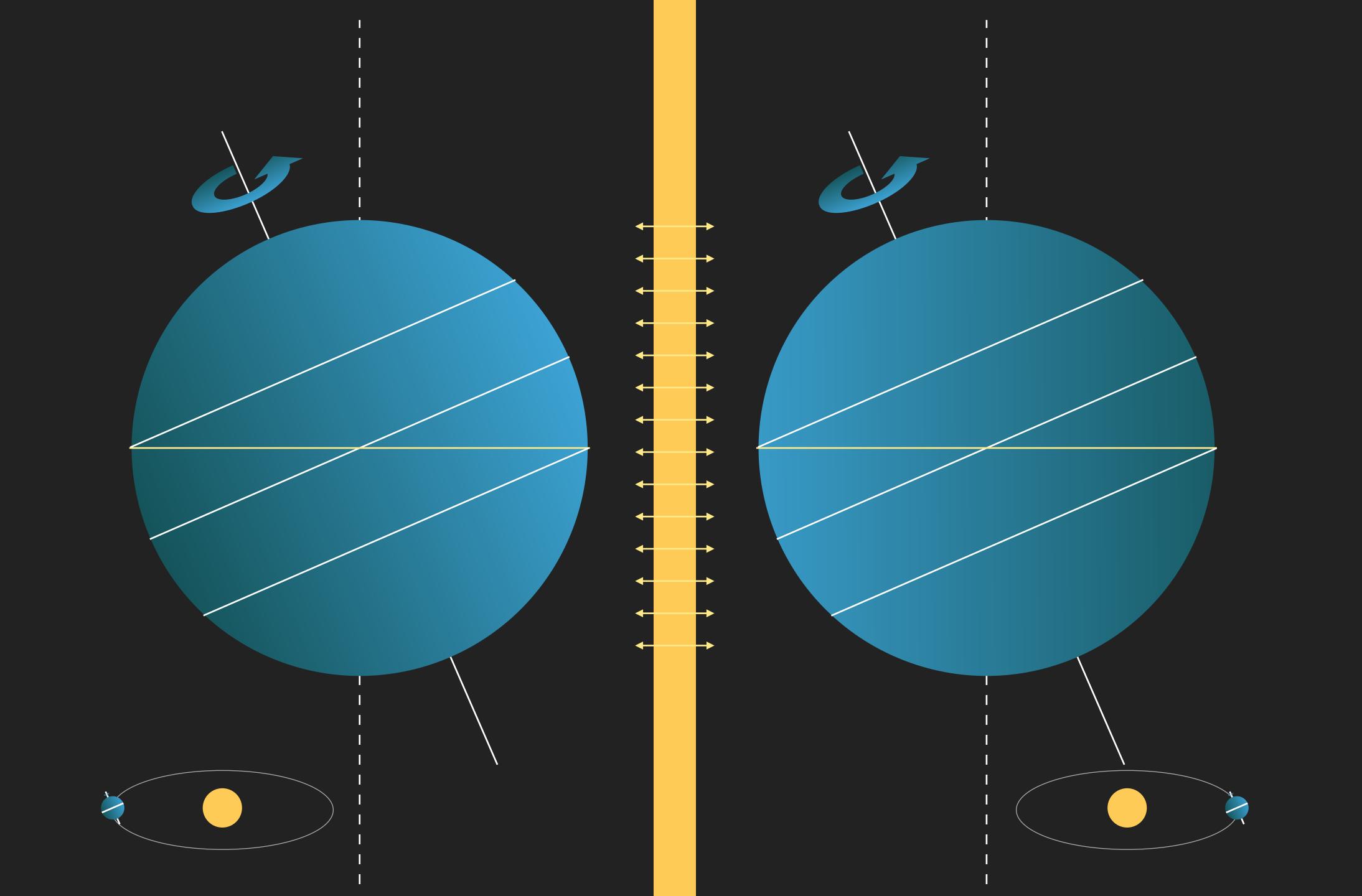
## A SPHERE SPINNING, TILTED, AND ORBITING WITH CONSTANT TILT

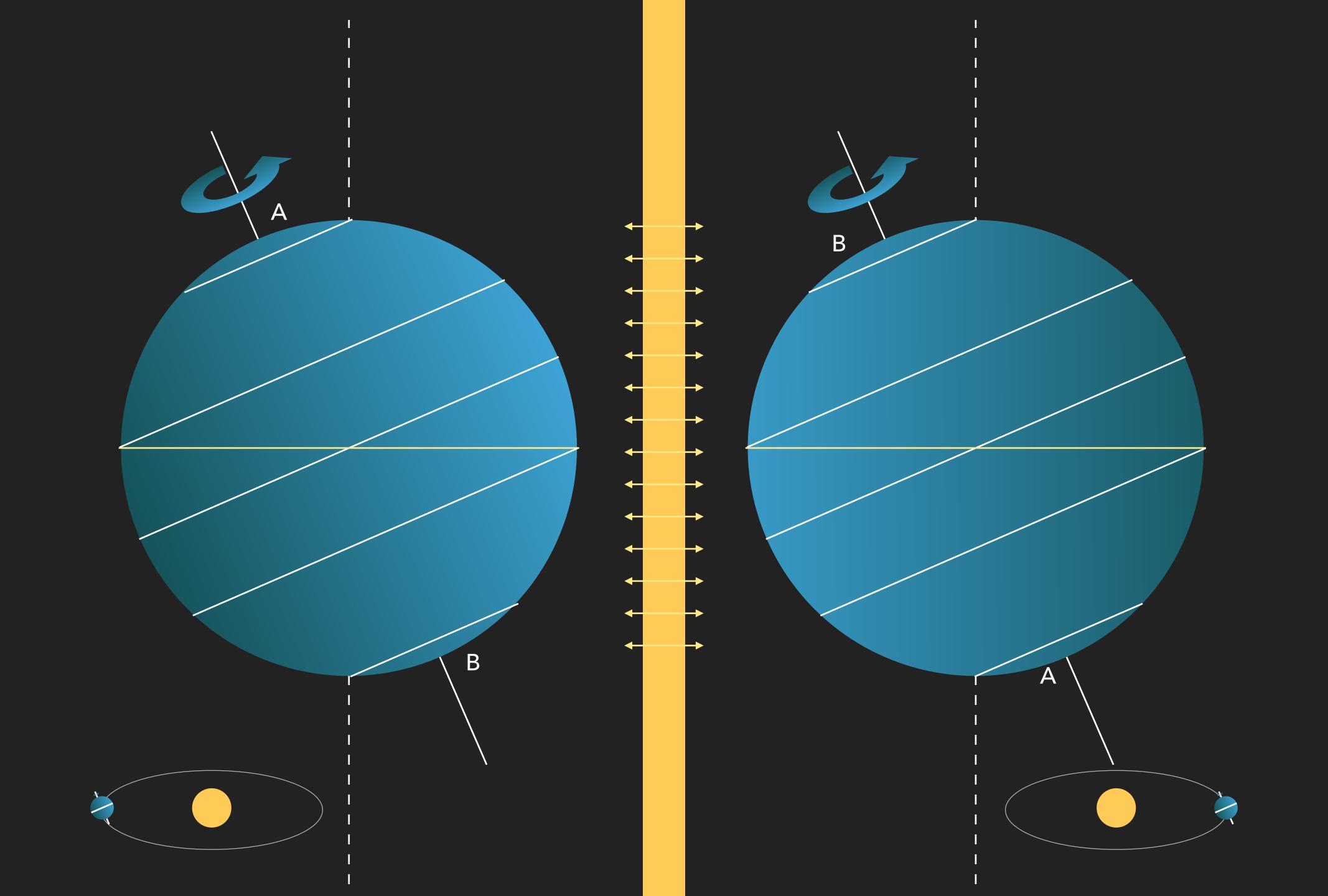


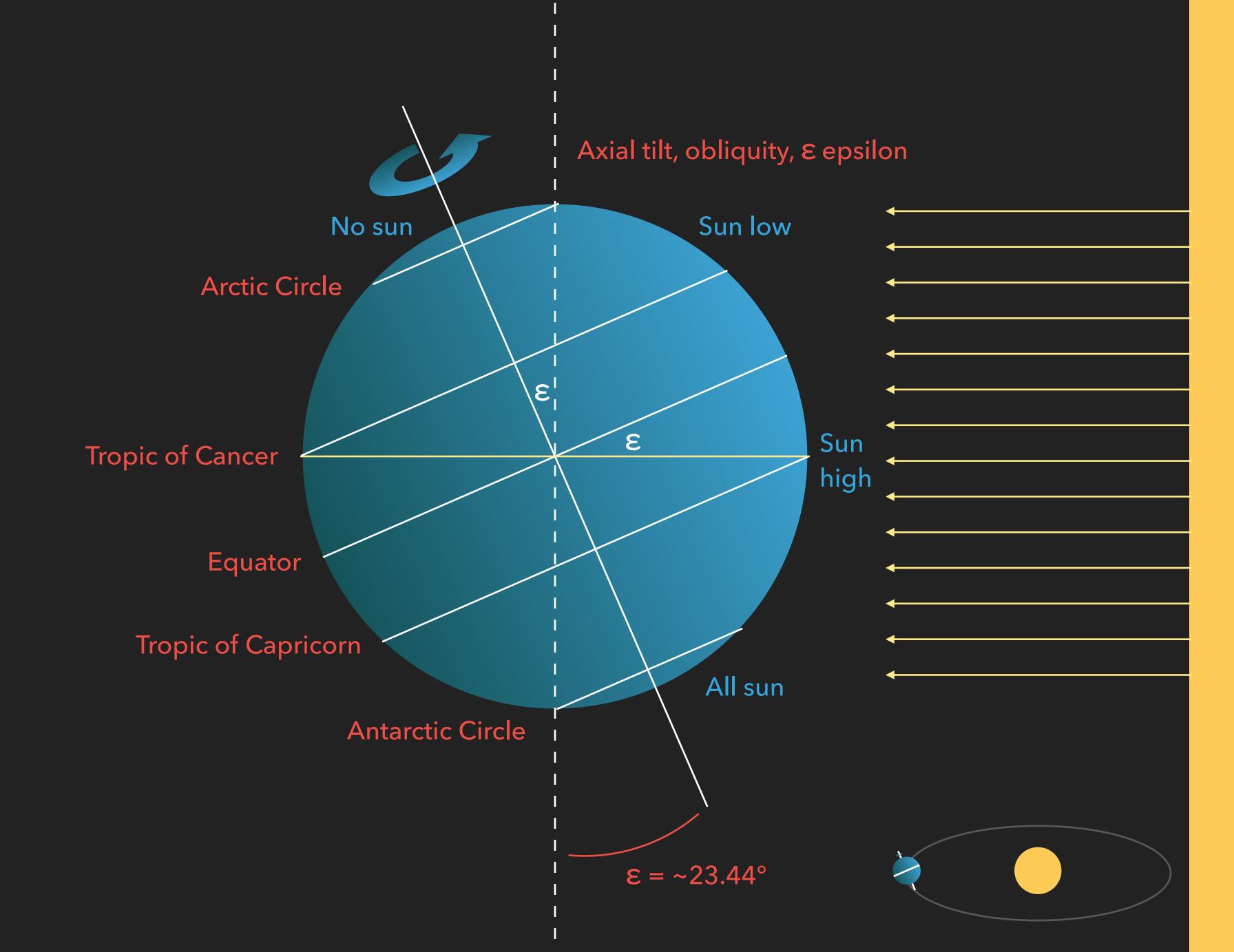




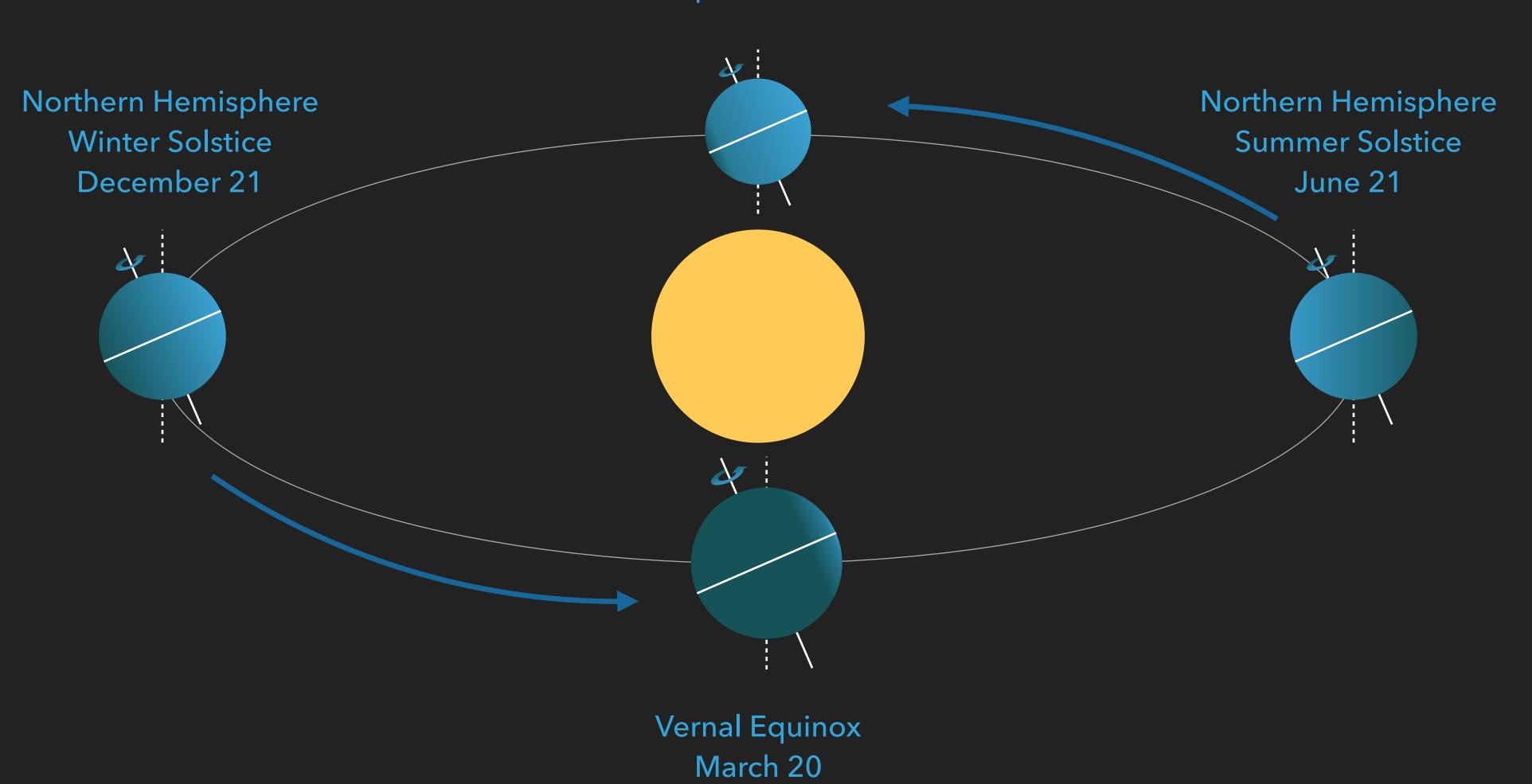




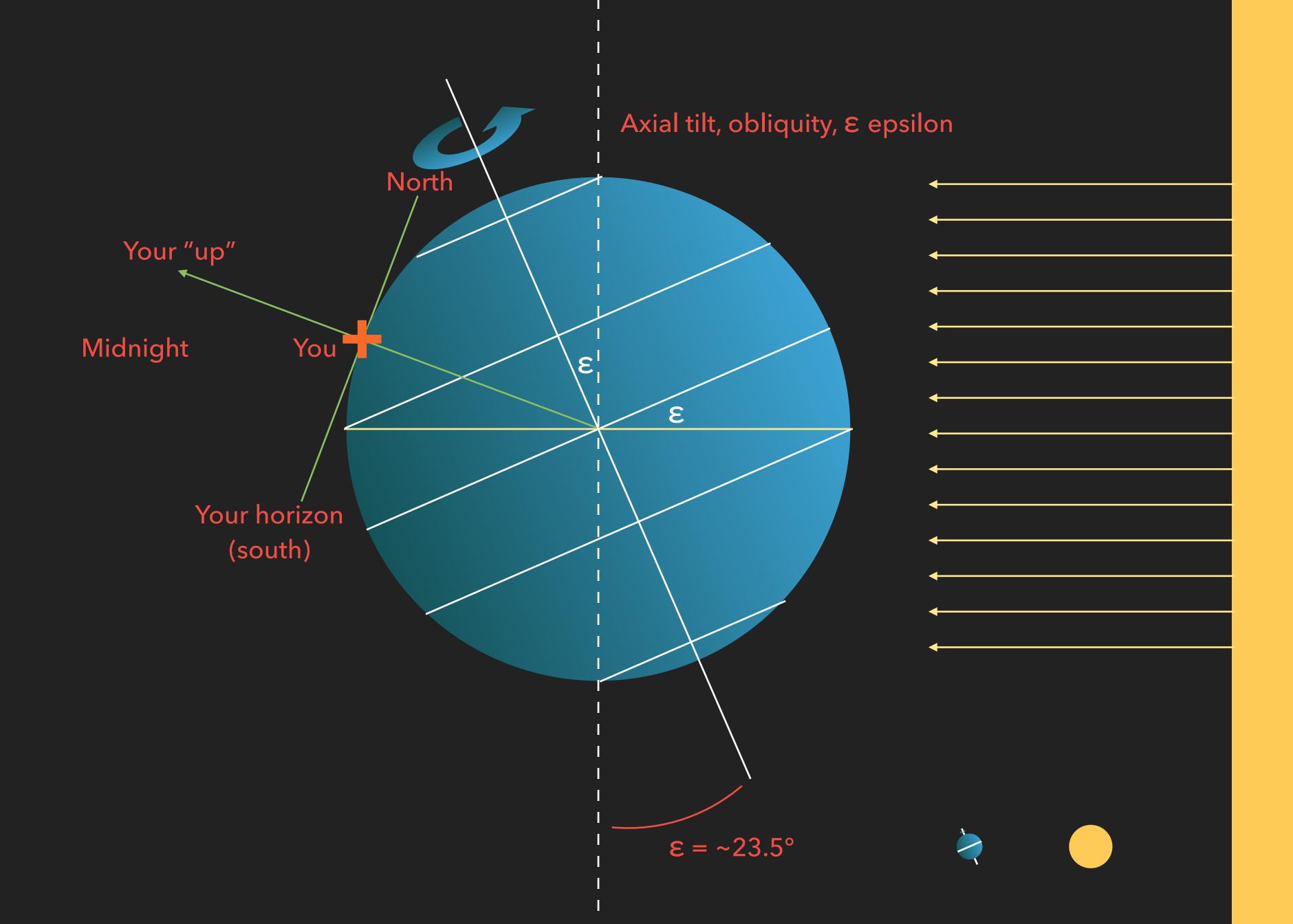




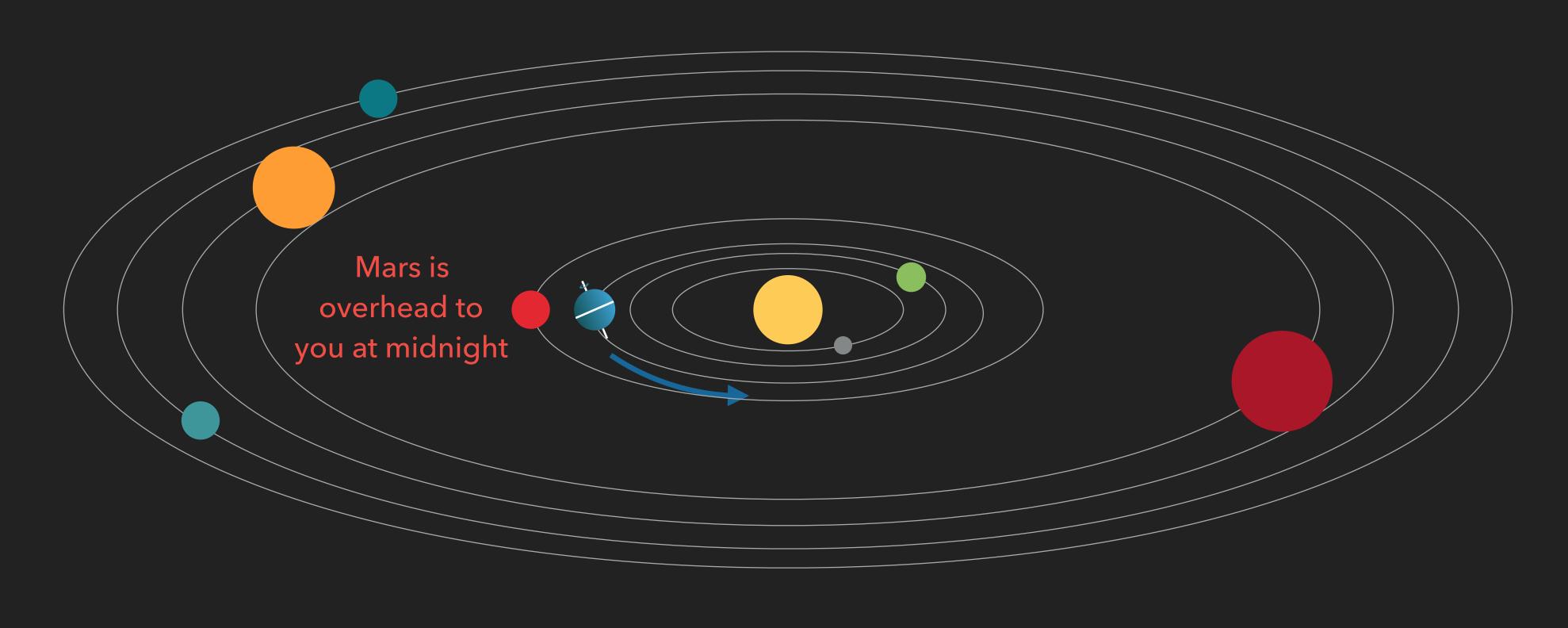
### Autumnal Equinox September 22

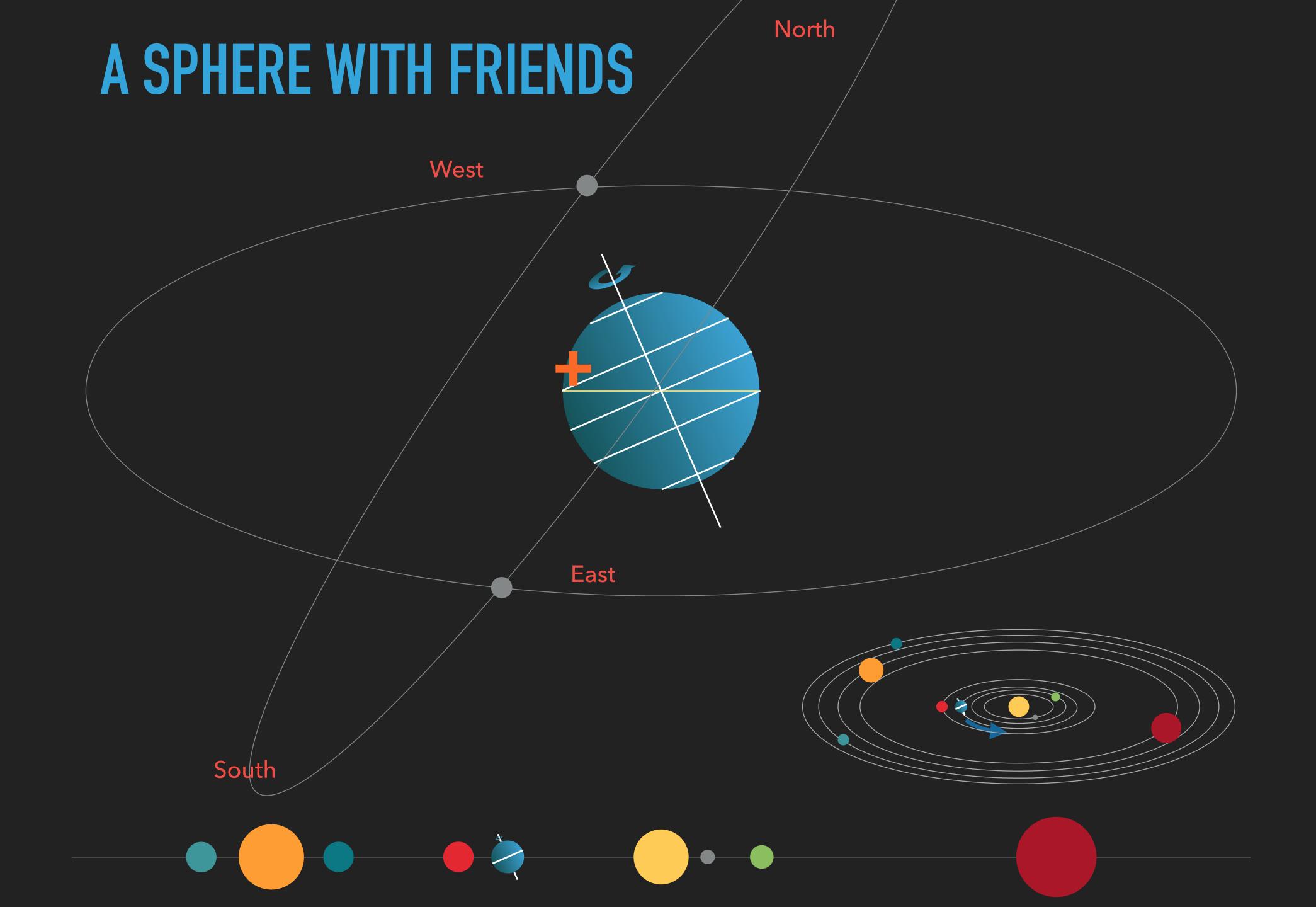


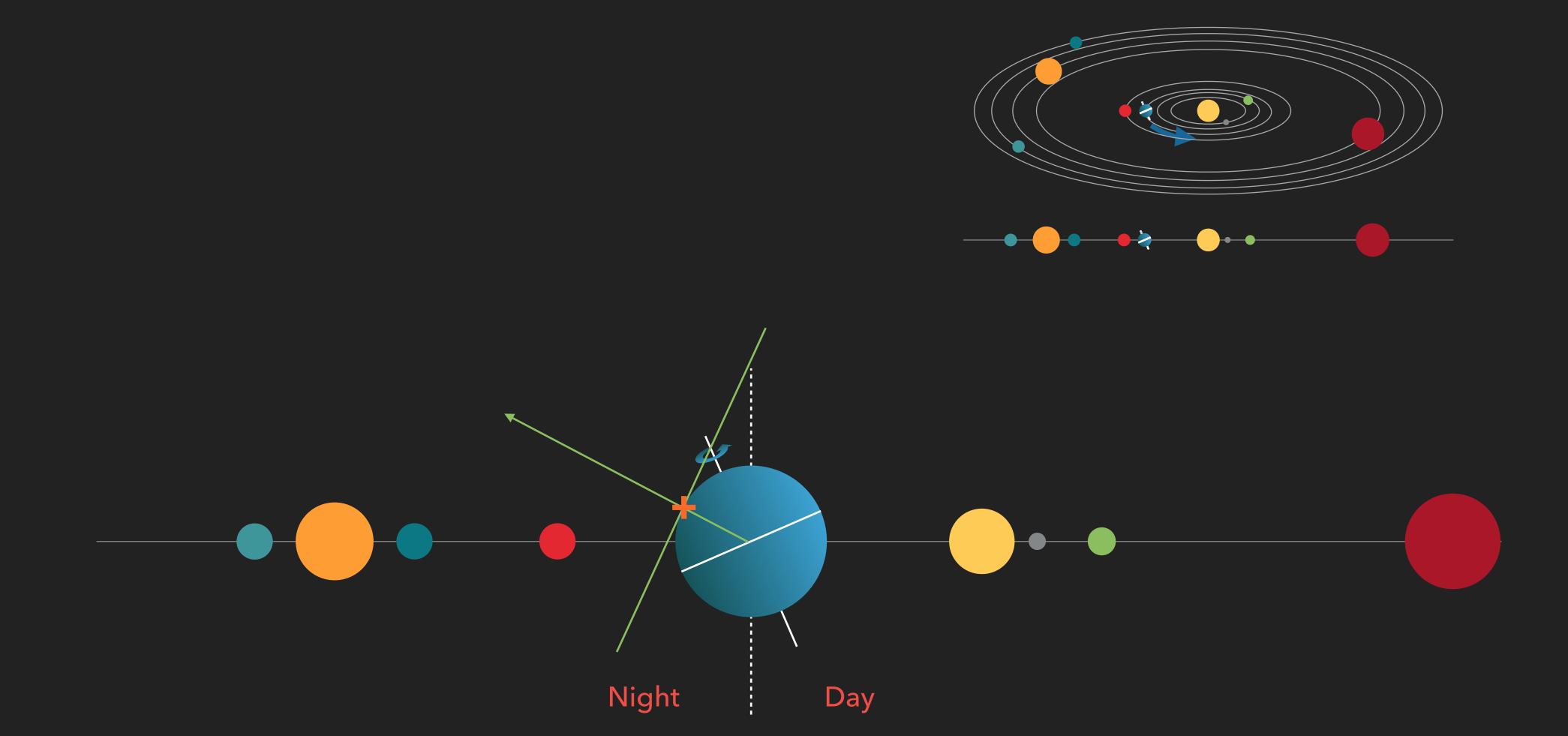
(PHEW)

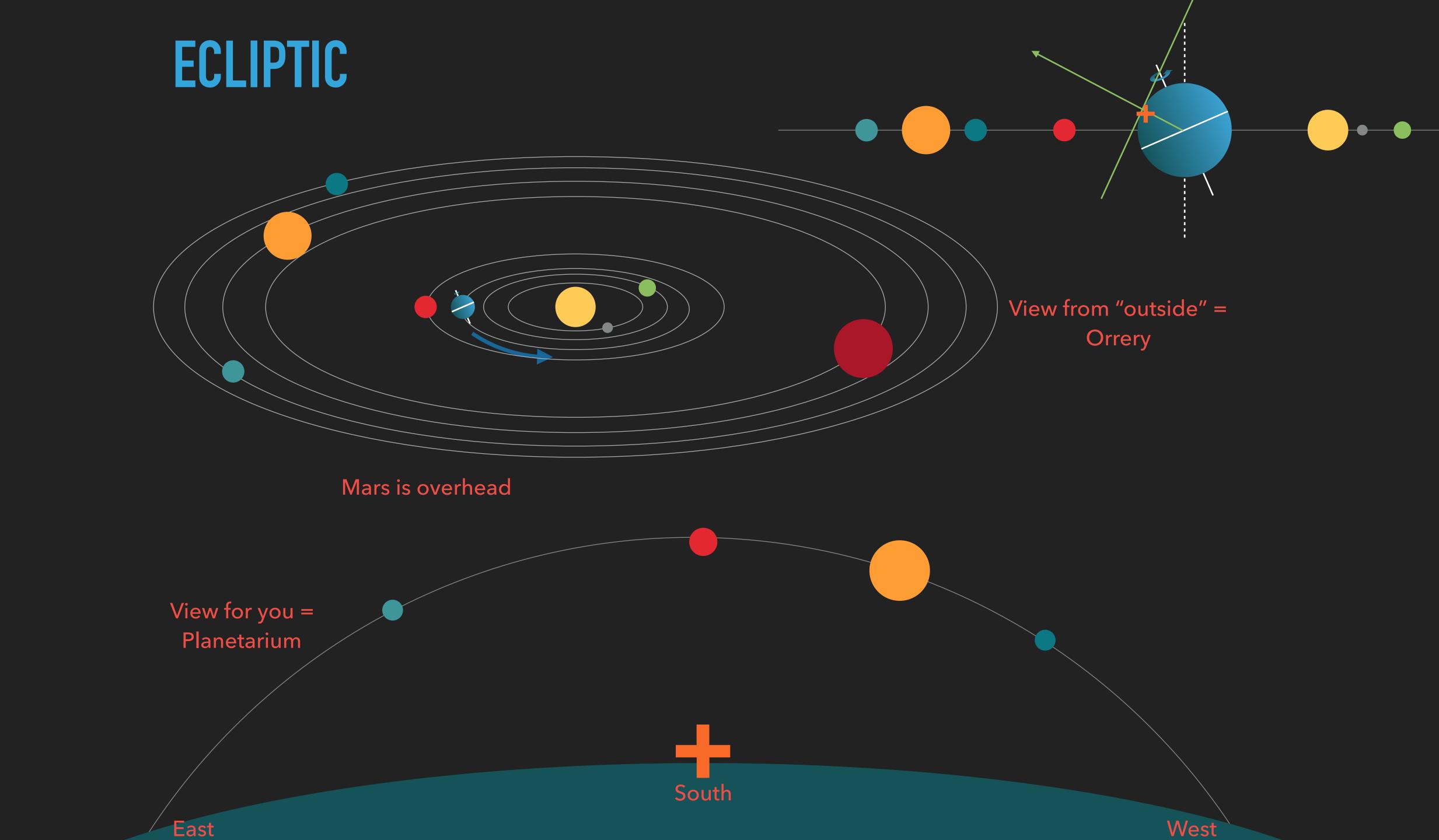


### A SPHERE WITH FRIENDS

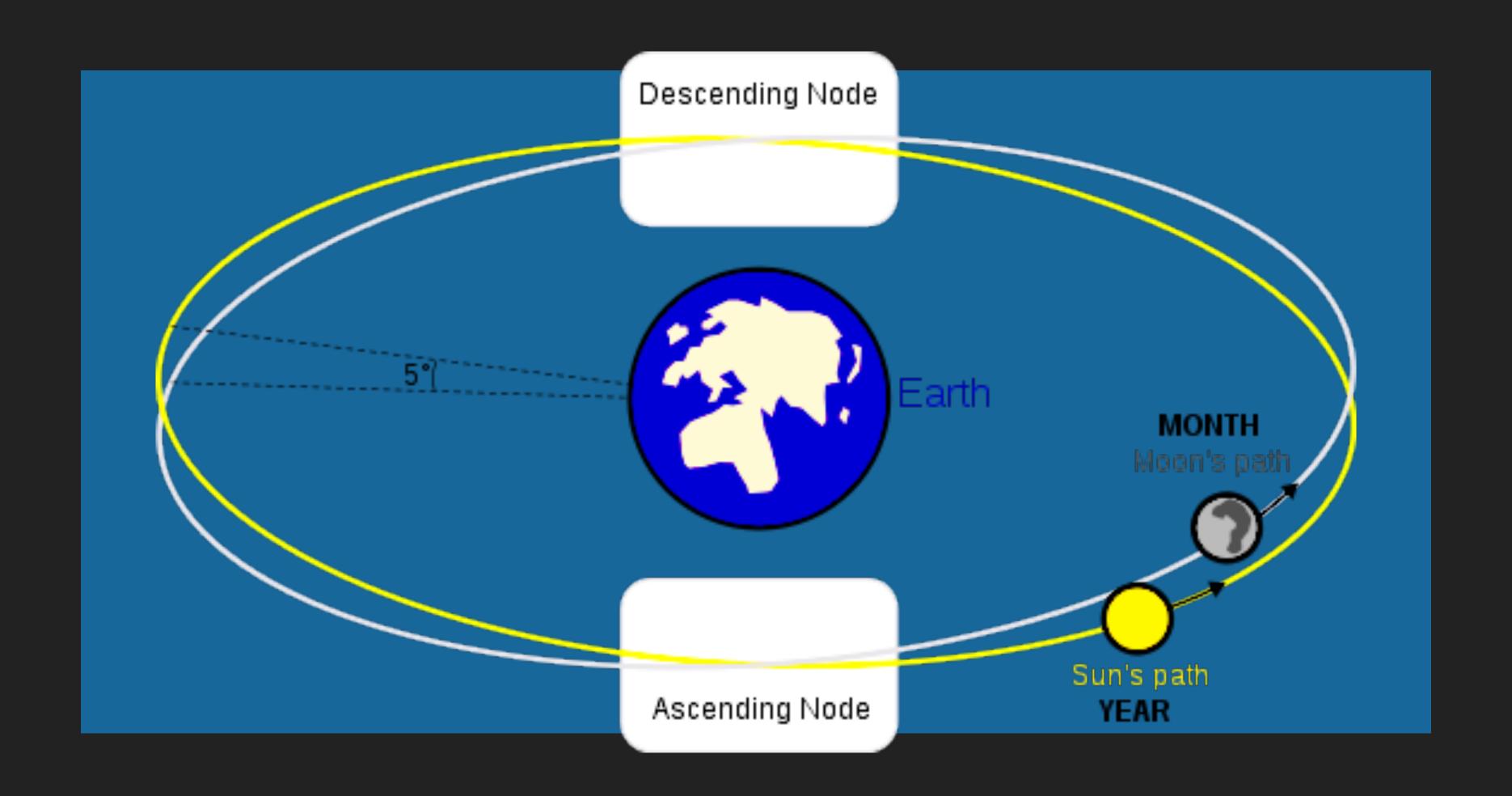






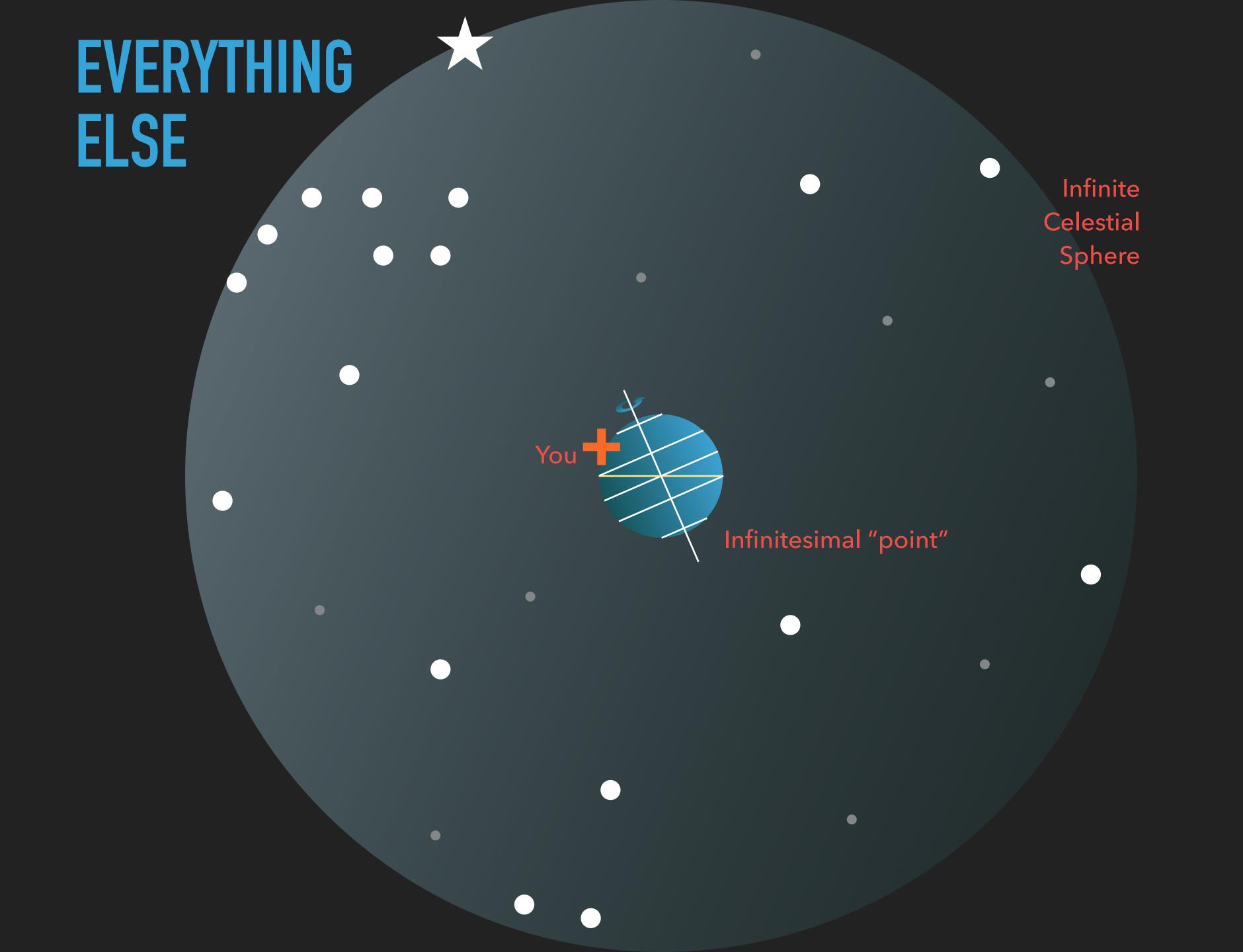


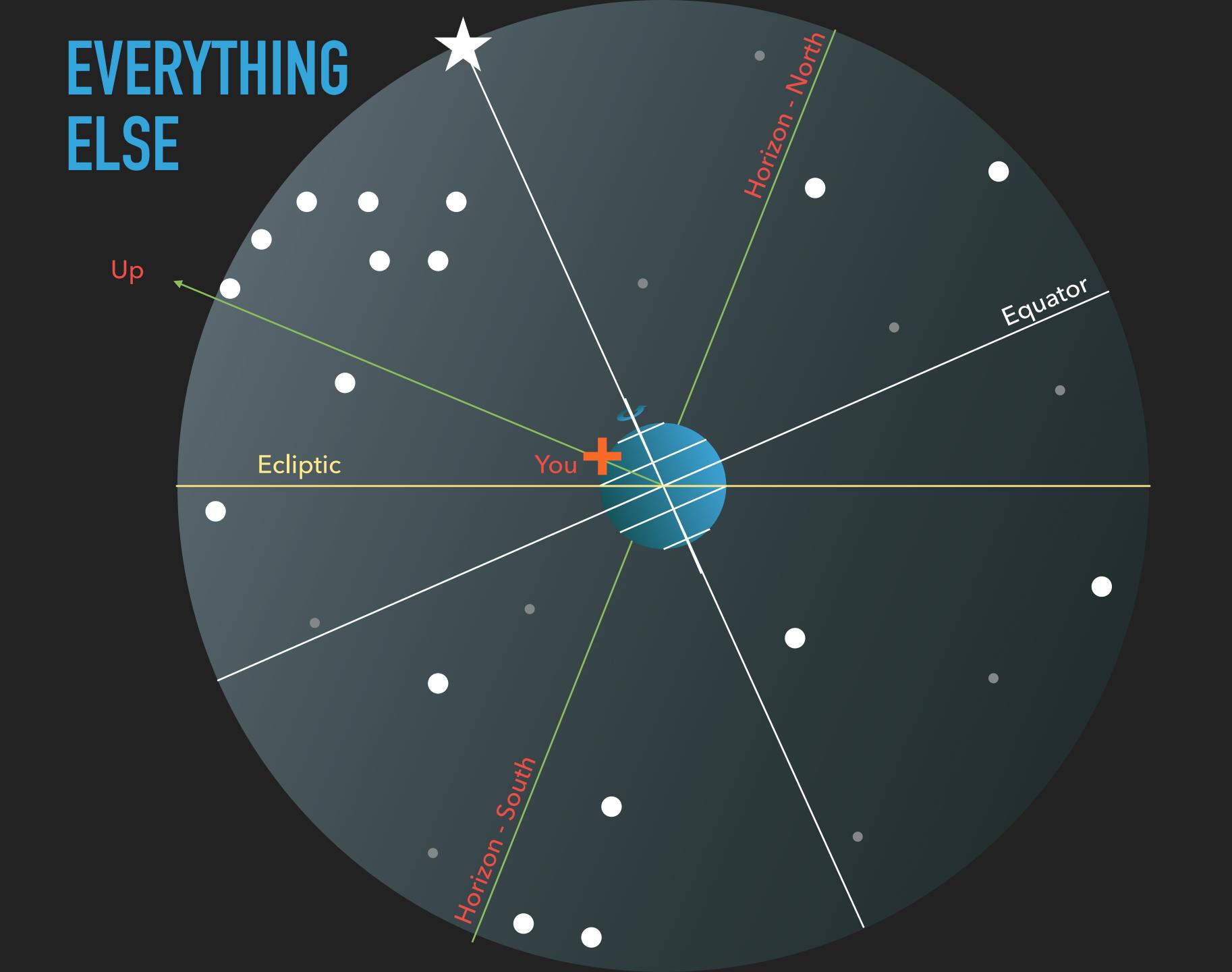
### WHY "ECLIPTIC"

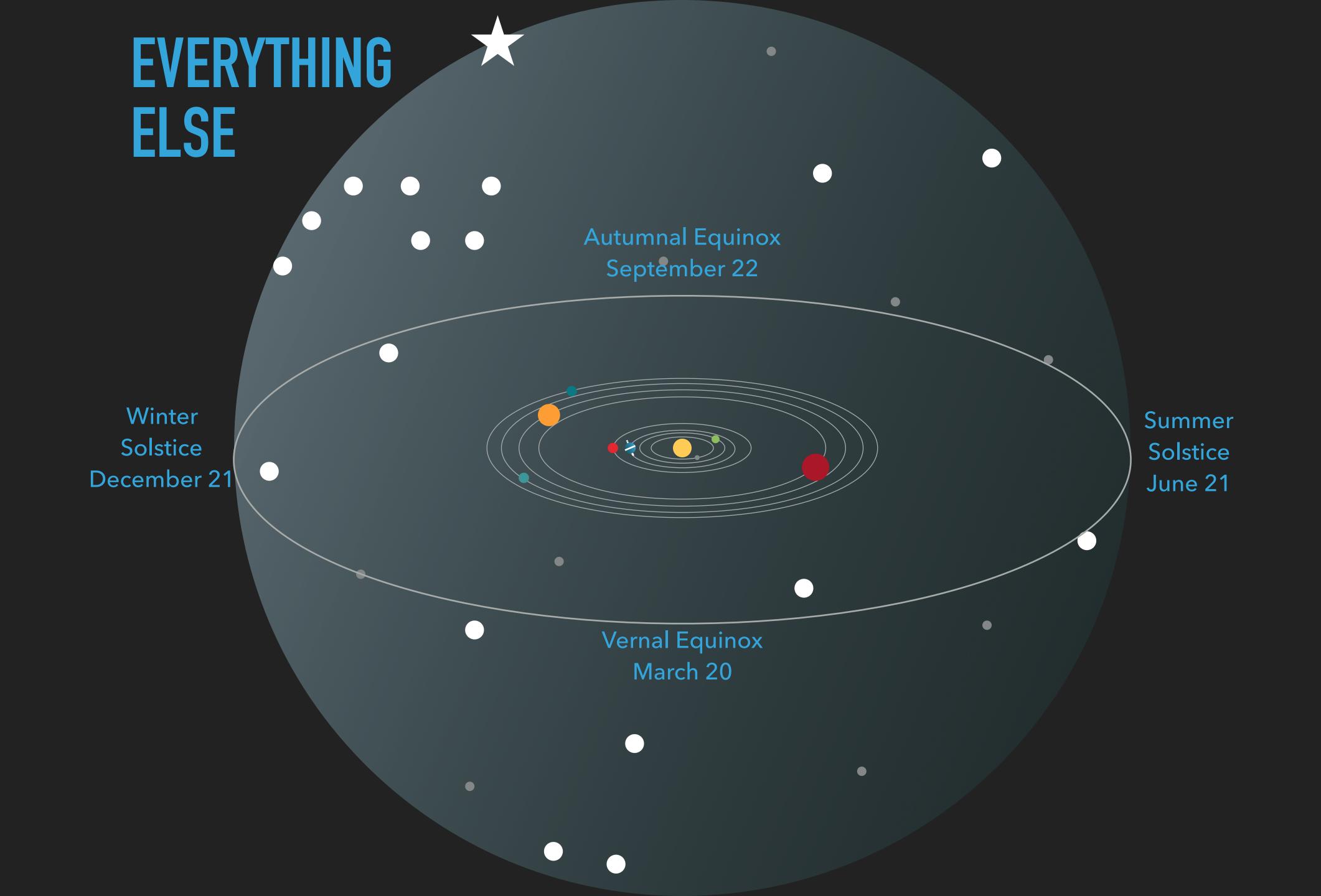


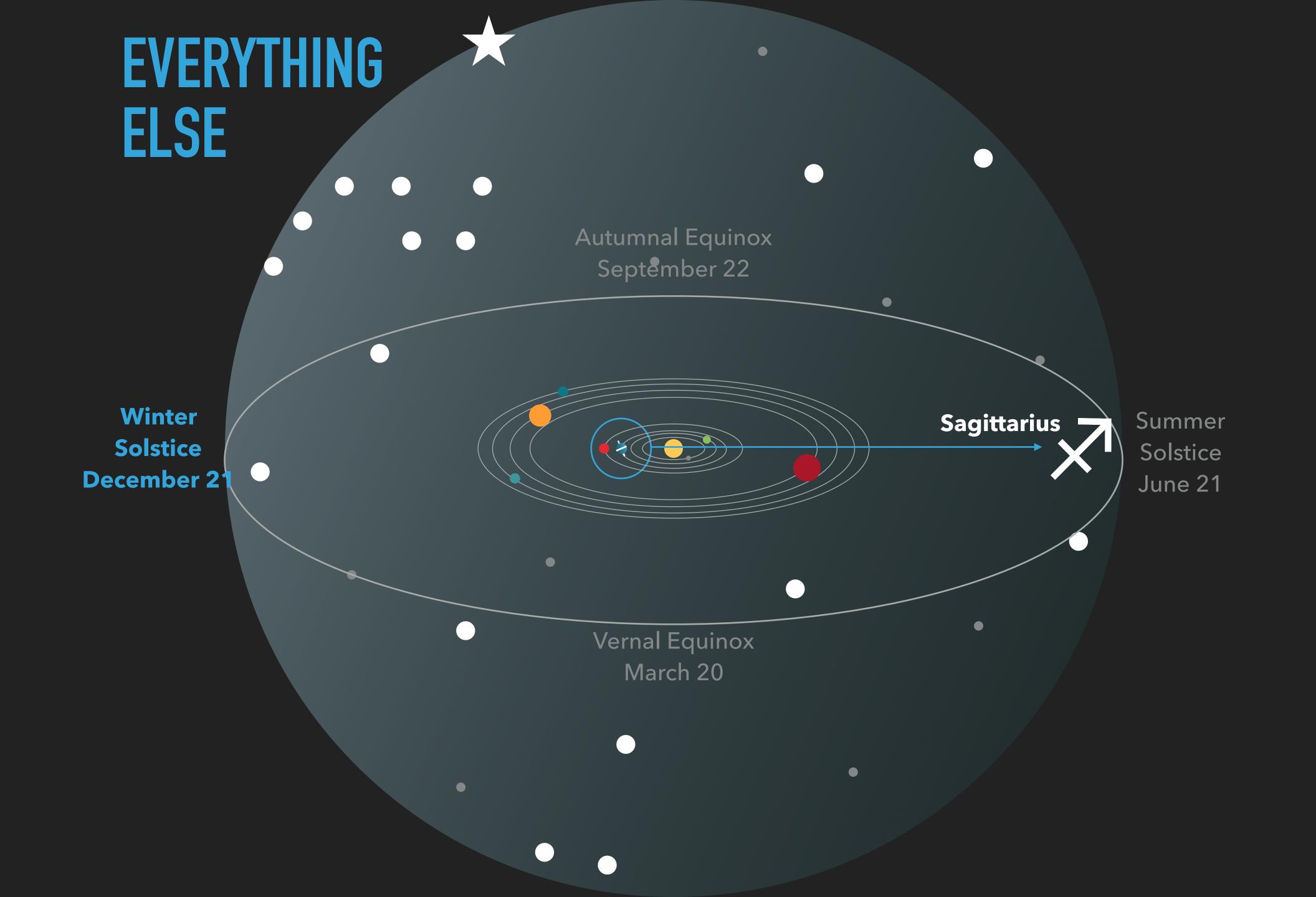
## (PHEW X 2)

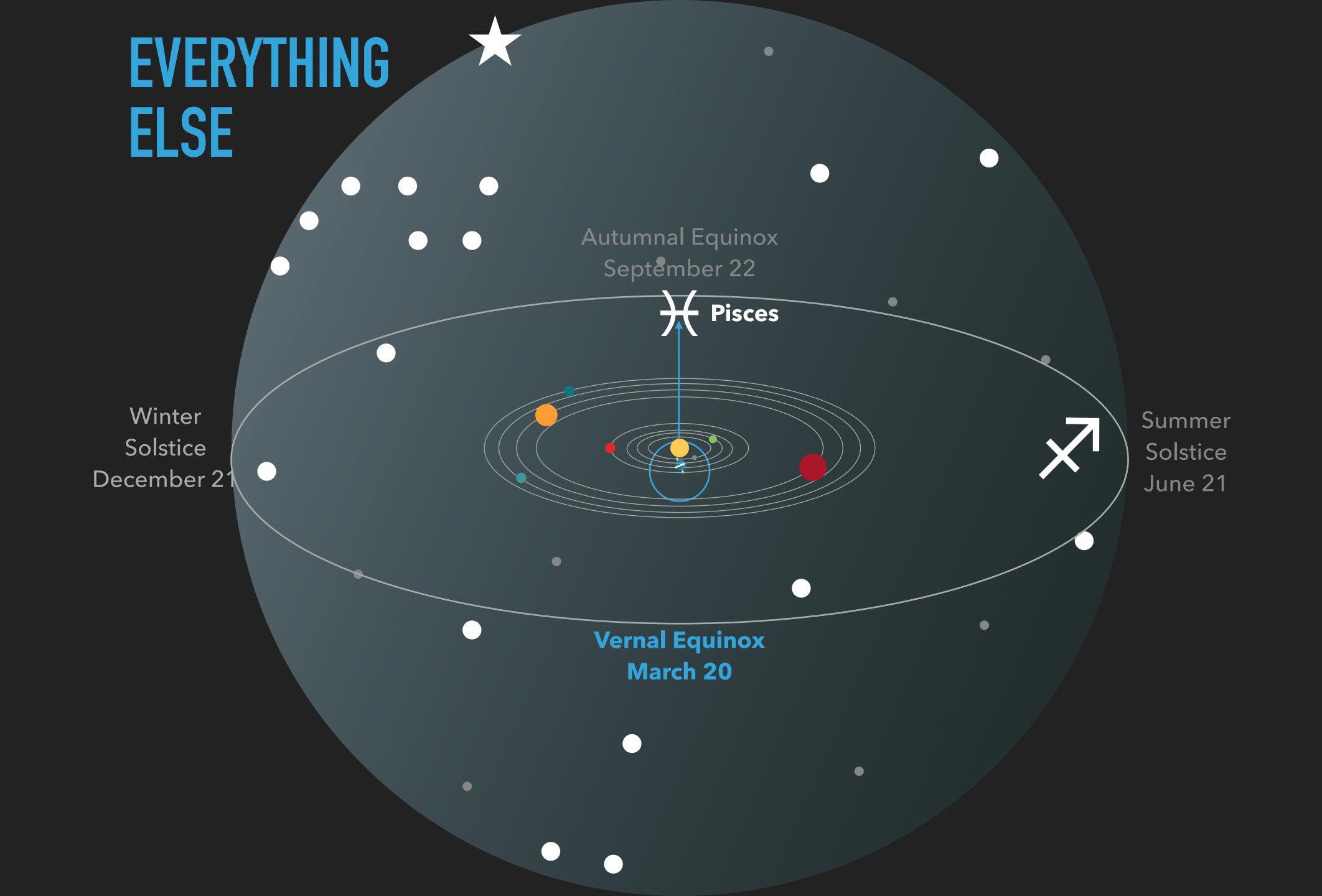












### EVERYTHING ELSE

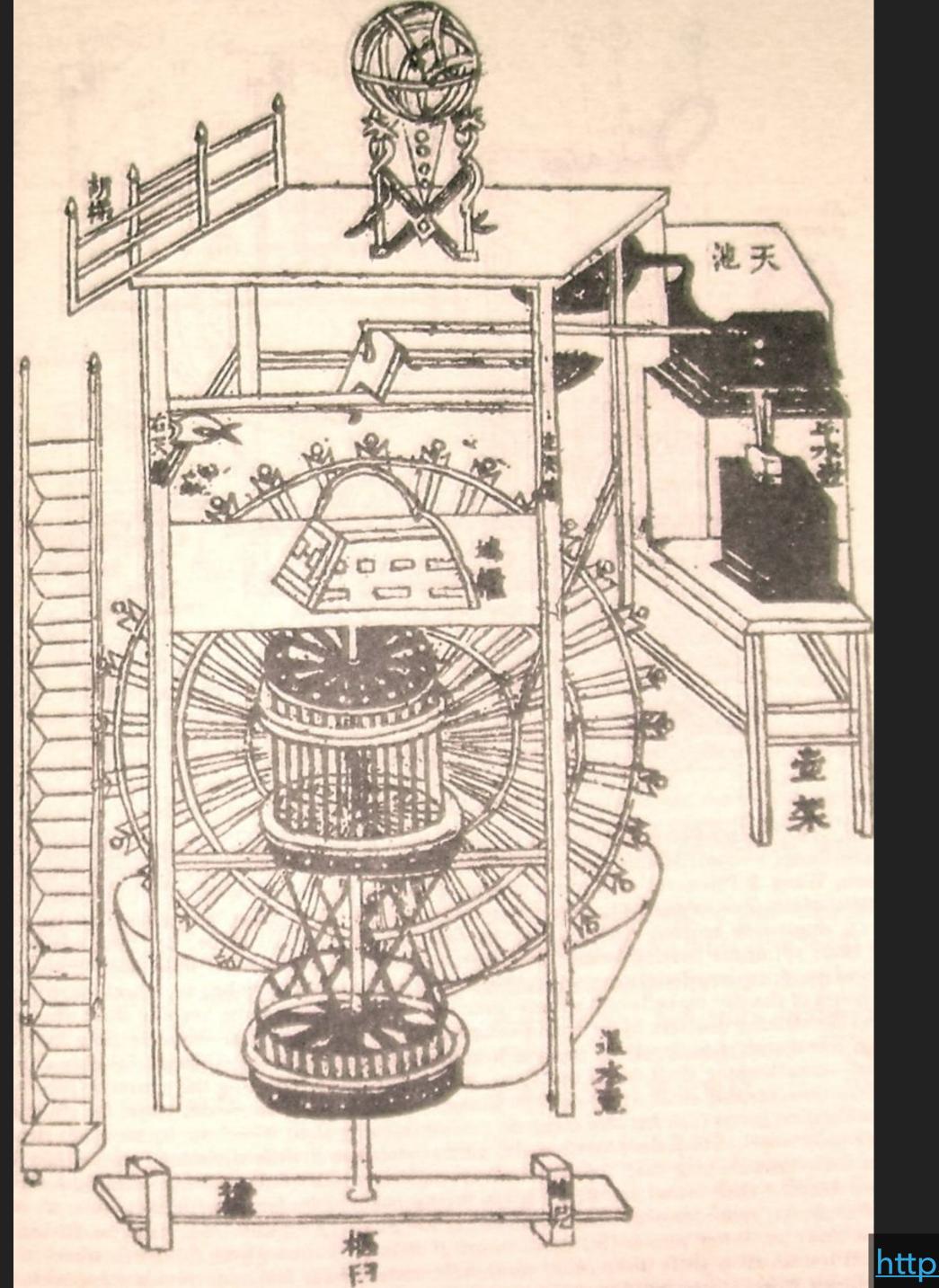
appears here on March 21. **Pisces** o-a Aries Aquarius May 21 Taurus Apr. 21 The Sun Feb. 21 Capricornus appears here on May 21. Oct. 21 Sept. 21 Jan. 21 Gemini Aug. 21 Nov. 21 July 21 Sagittarius Winter Dec. 21 June 21 June 21 May 21

Apr. 21

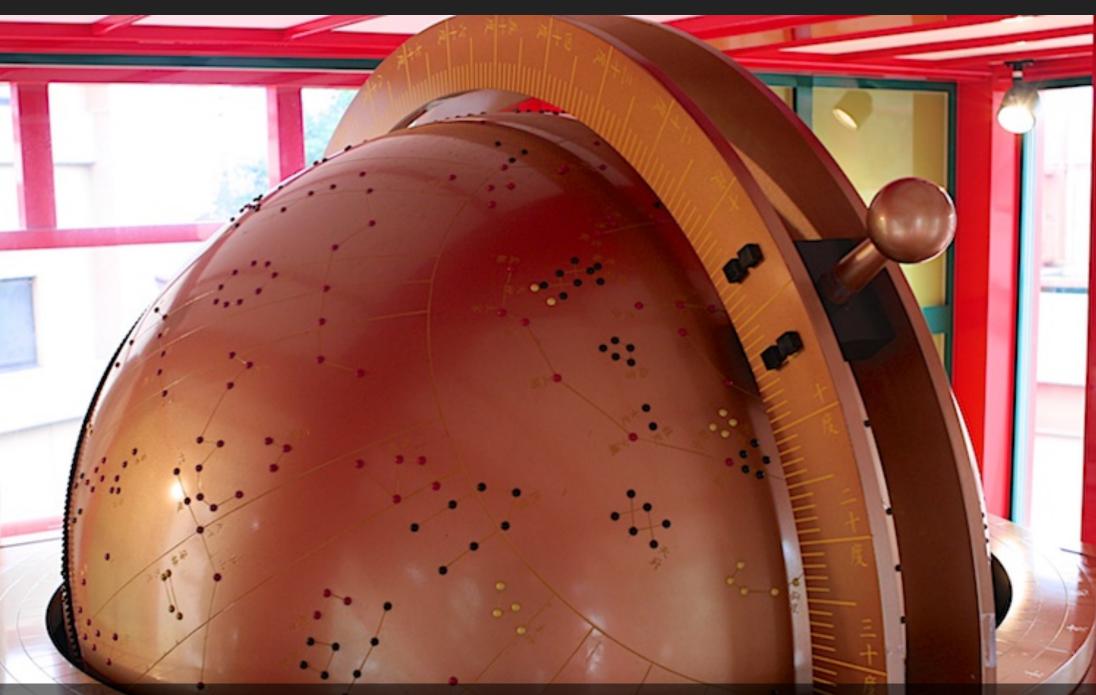
the Sun's apparent position in the Zodiac of the Zodiac Solstice Earth's actual position in orbit Jan. 21 December 21 Dec. 21 July 21 Feb. 21 Mar. 21 Apr. 21 Scorpius Cancer Aug. 21 Oct. 21 The Sun <sub>%</sub> Libra appears here Virgo Sept. 21 on August 21. Copyright @ Addison Wesley

The Sun

Summer Solstice June 21 (PHEW X 3)







https://www.revolution.watch/past-masters-the-astronomical-water-clock-of-su-song



# SU SONG ASTRONOMICAL WATER CLOCK 01094 CE, FIRST ESCAPEMENT

"Thus if the water is made to pour with perfect evenness, then the comparison of the rotary movements (of the heavens and the machine) will show no discrepancy or contradiction; for the unresting follows the unceasing."



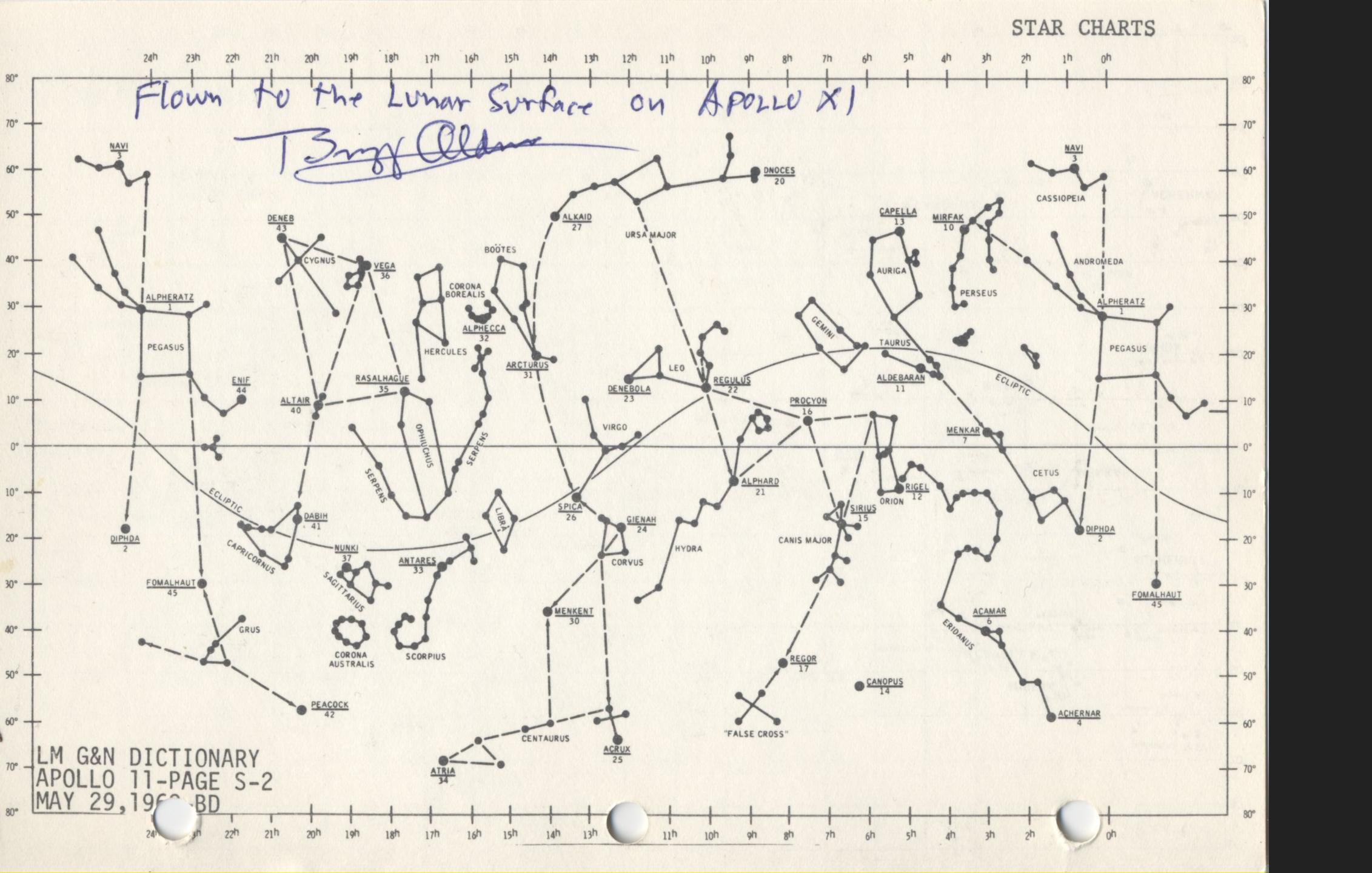
**ARMILLARY** SPHERE MADE BY GIROLAMO DELLA VOLPAIA, FLORENCE, ITALY, 01554

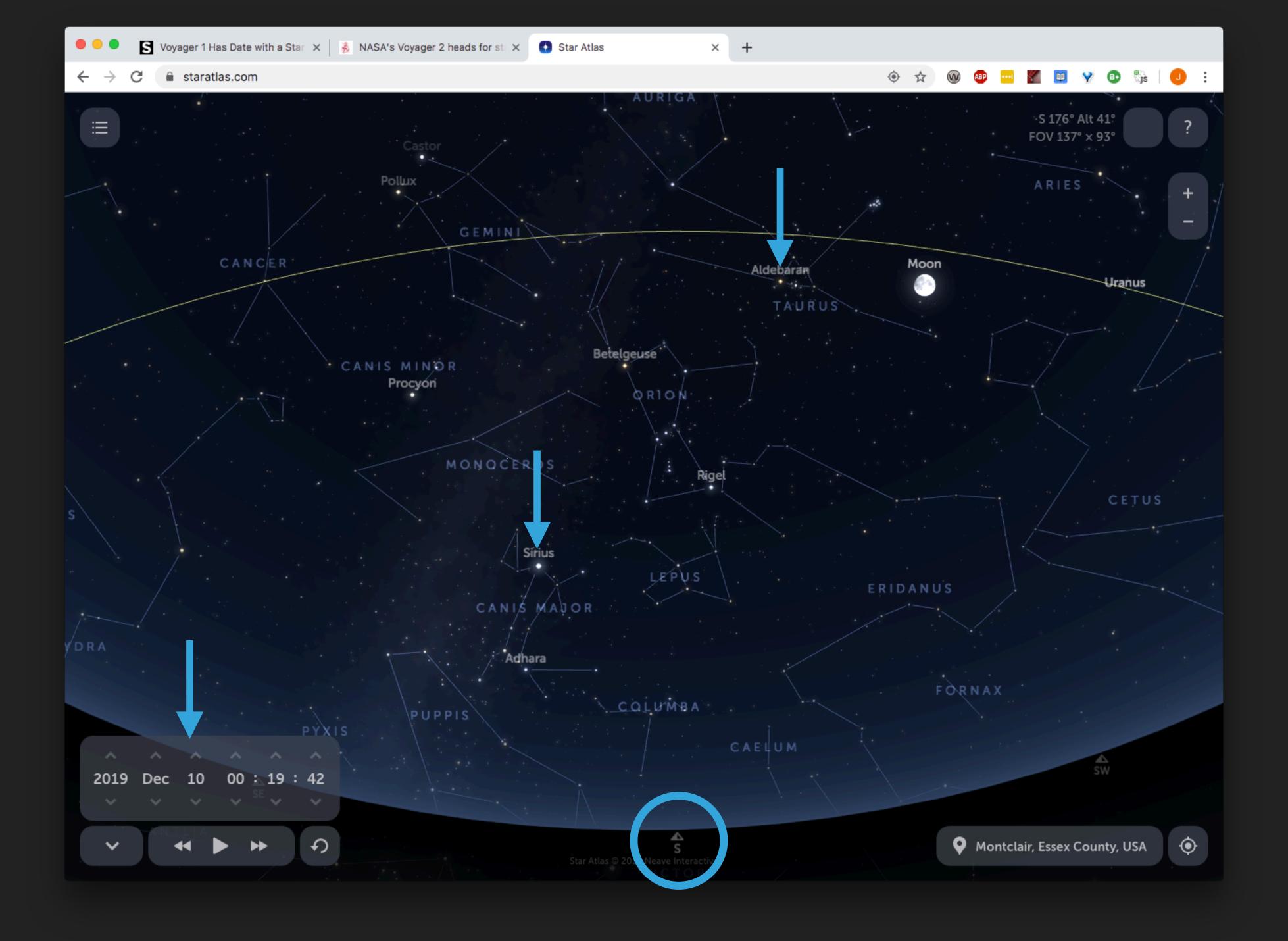
**London Science Museum** 

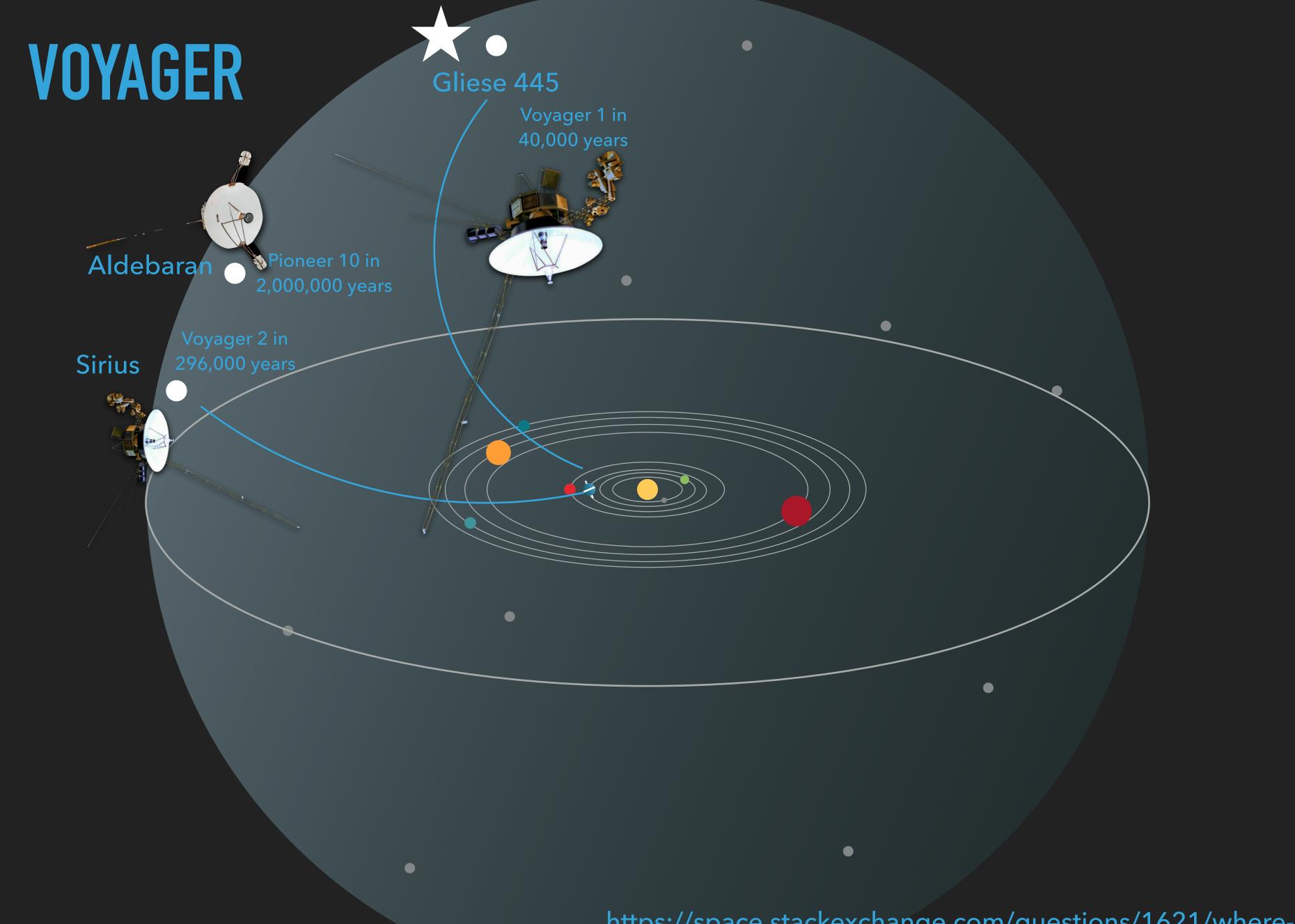


### AUGHRA'S ORRERY

Dark Crystal







https://space.stackexchange.com/questions/1621/whereare-pioneer-10-11-and-the-voyagers-ultimately-headed