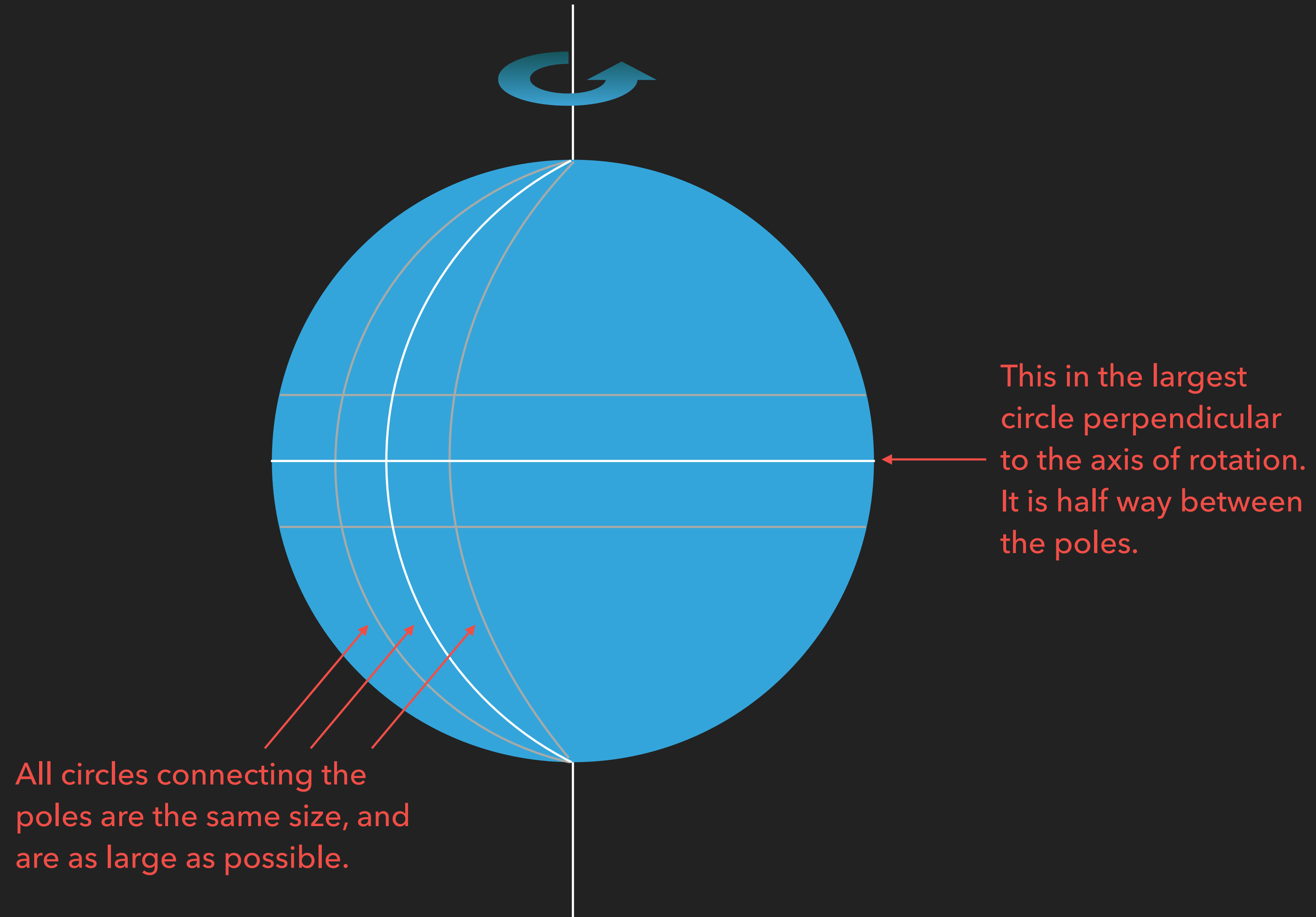


**SPACE**

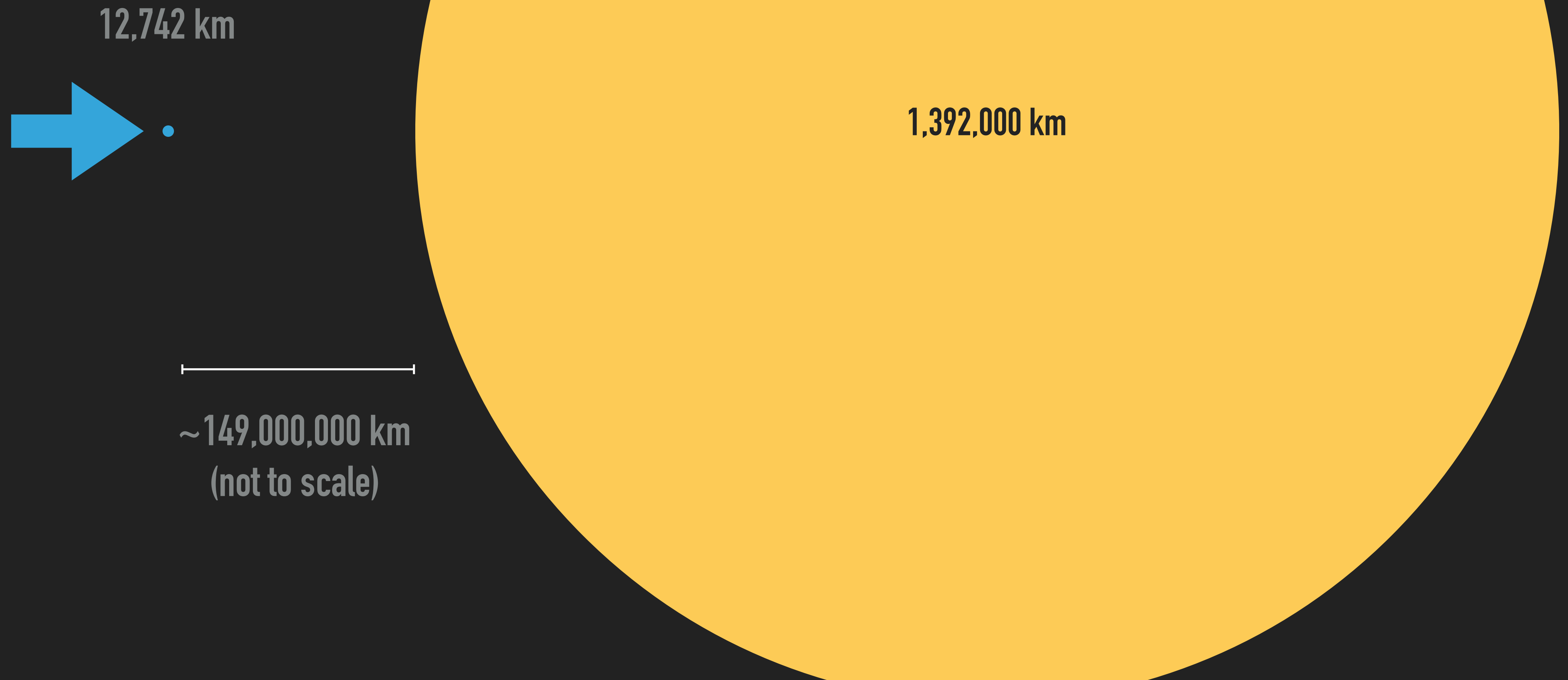
# A SPHERE IN SPACE



# A SPHERE IN SPACE, SPINNING

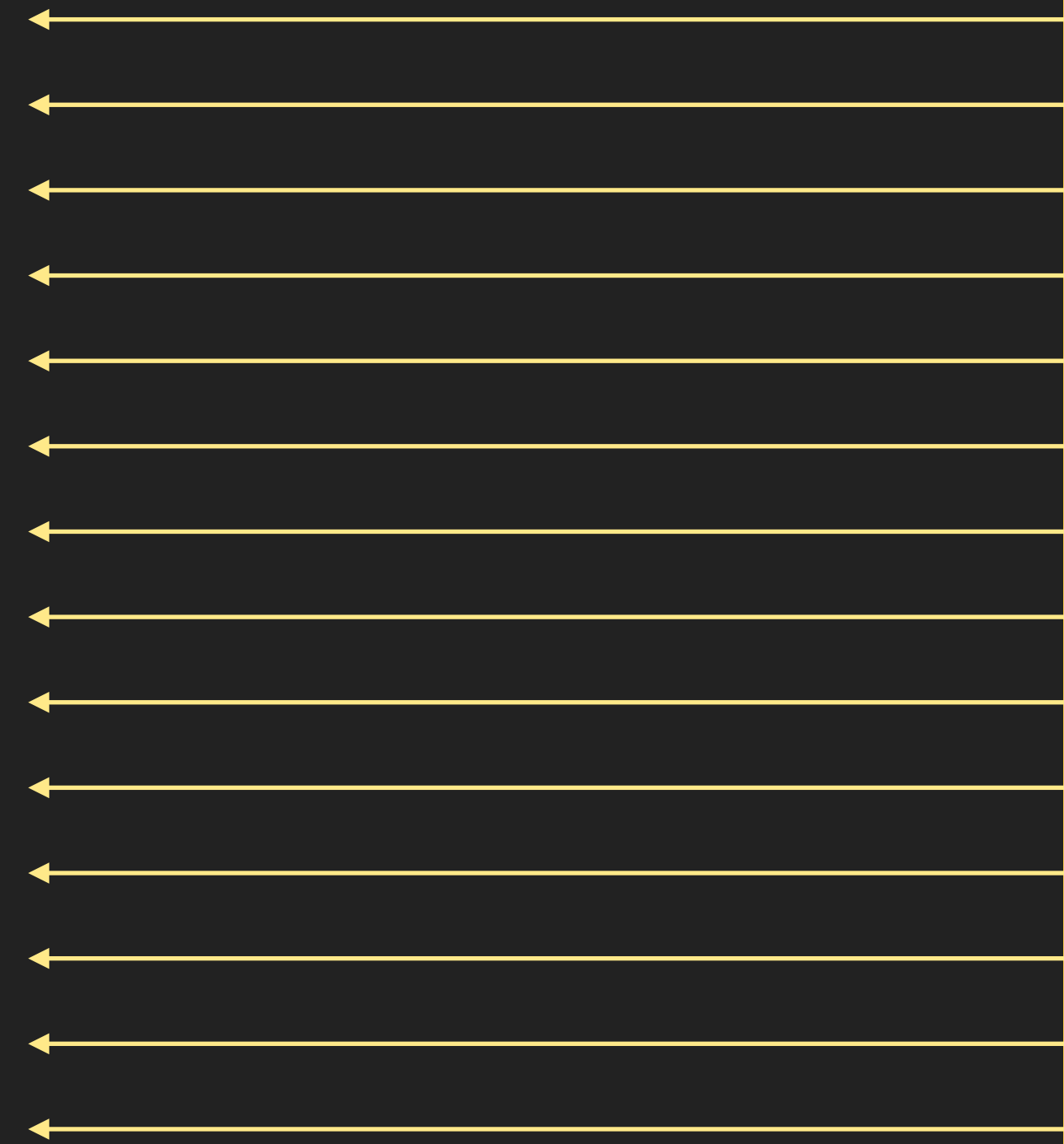
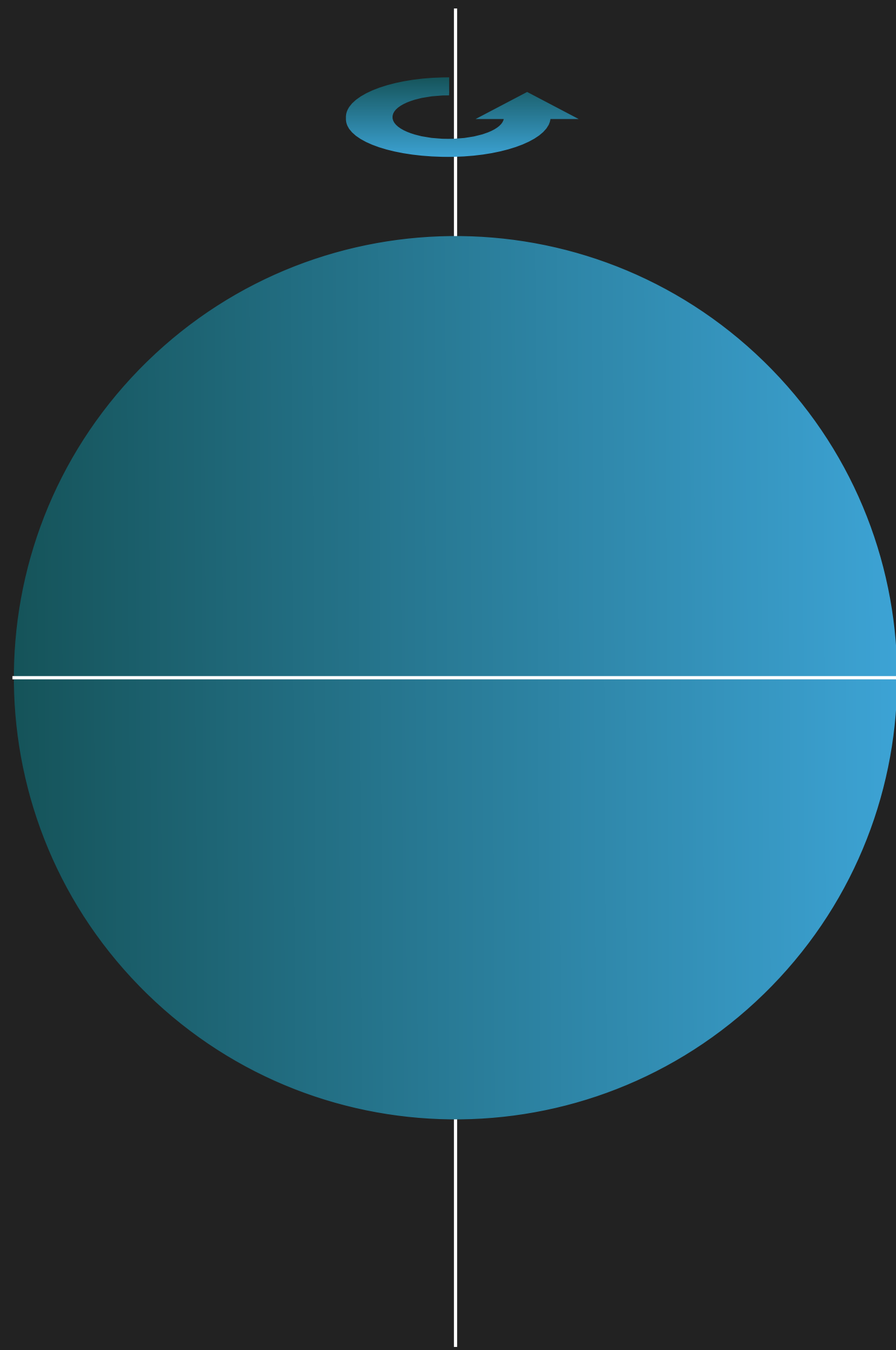


# RELATIVE SIZE, SUN 109X EARTH'S DIAMETER

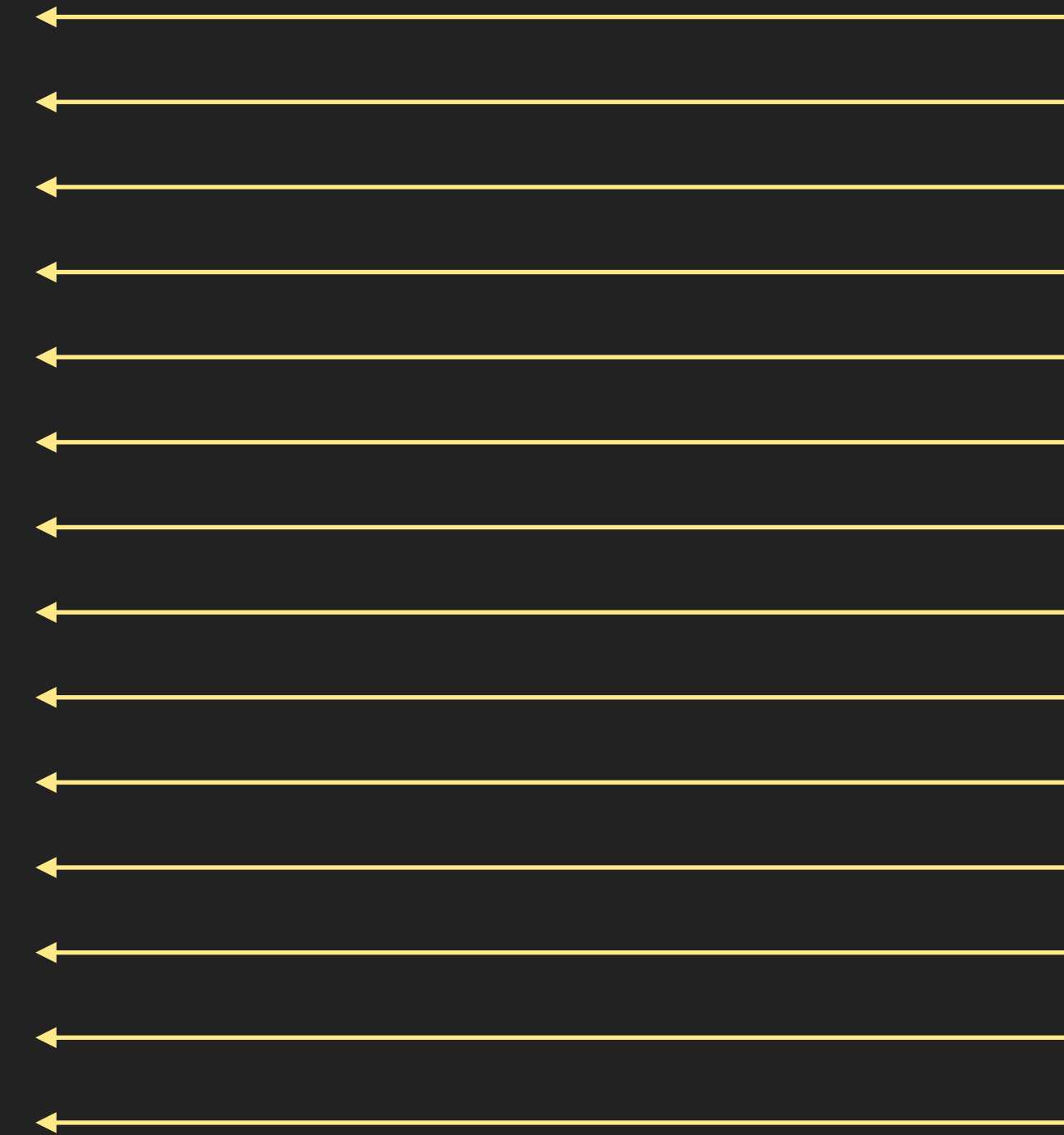
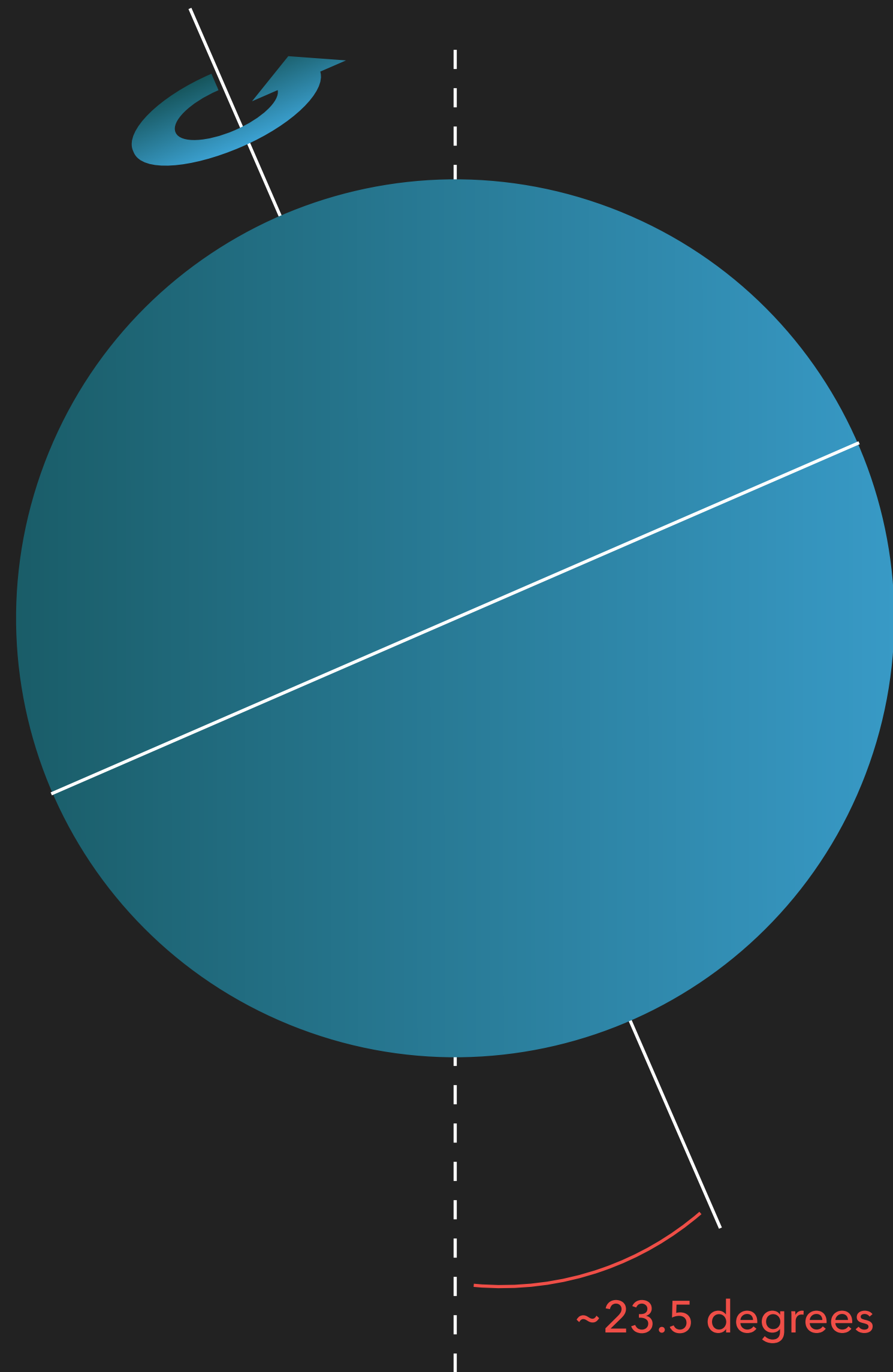


# RELATIVE DISTANCE, EARTH NOT VISIBLE



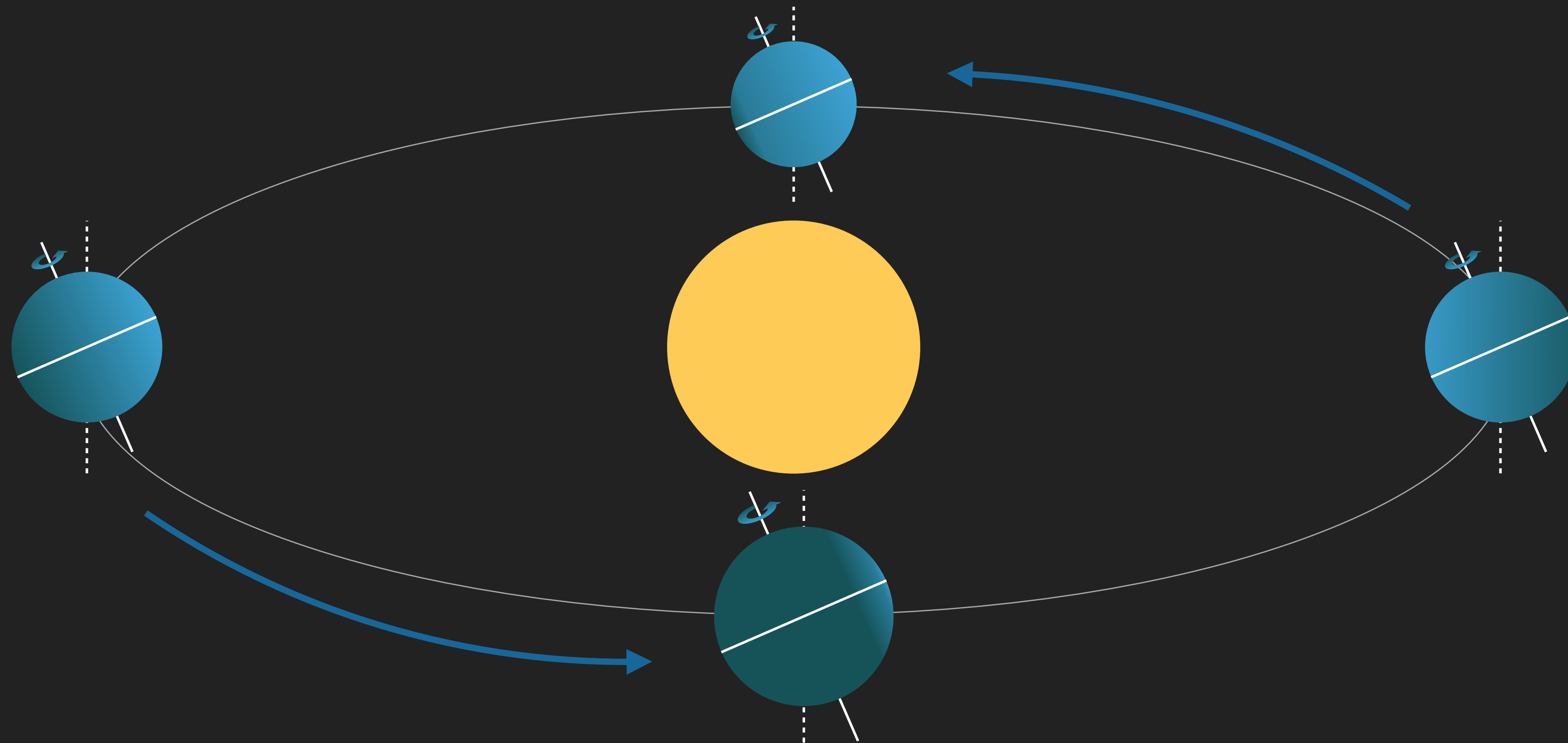


# A SPHERE IN SPACE, SPINNING, TILTED

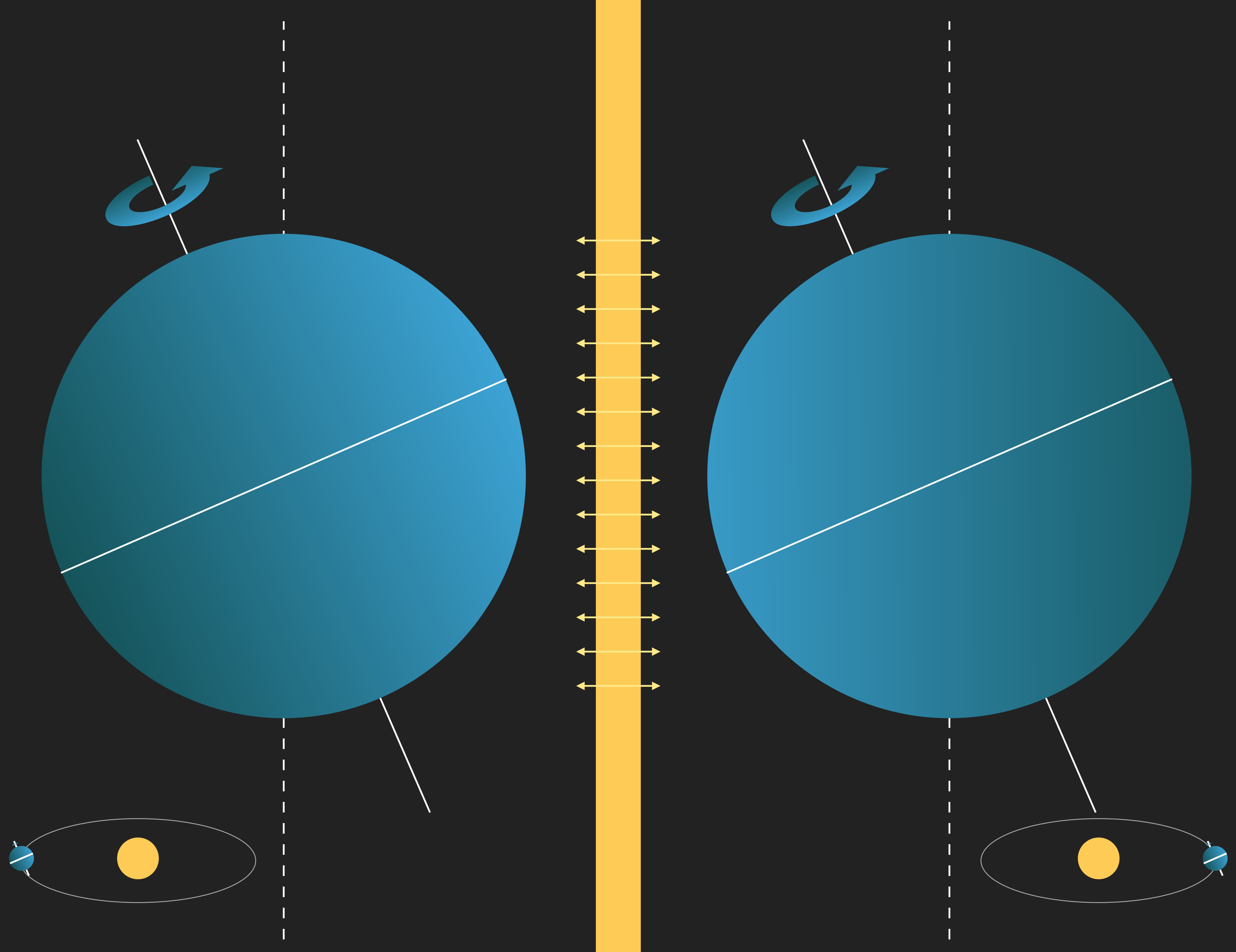


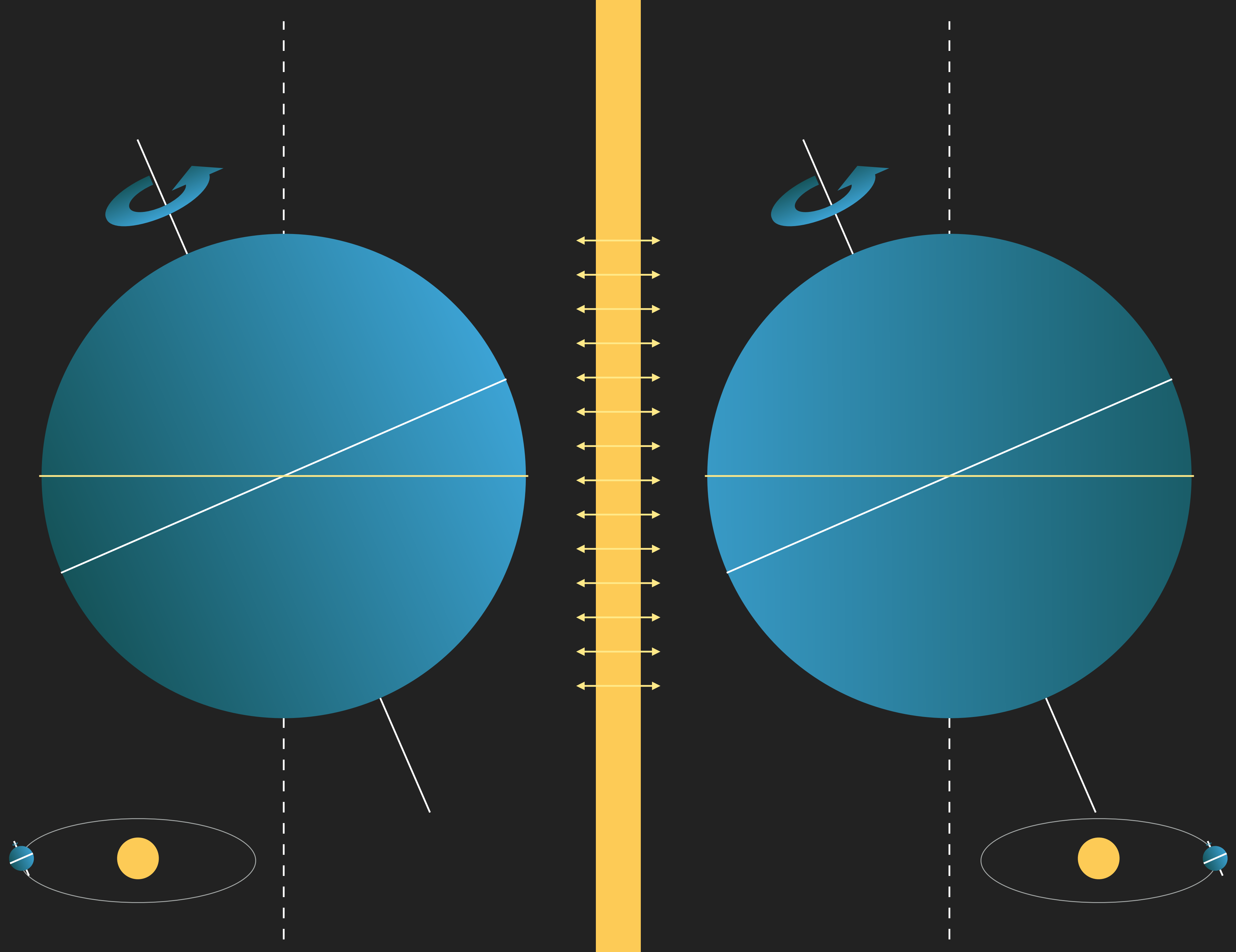
# A SPHERE SPINNING, TILTED, AND ORBITING

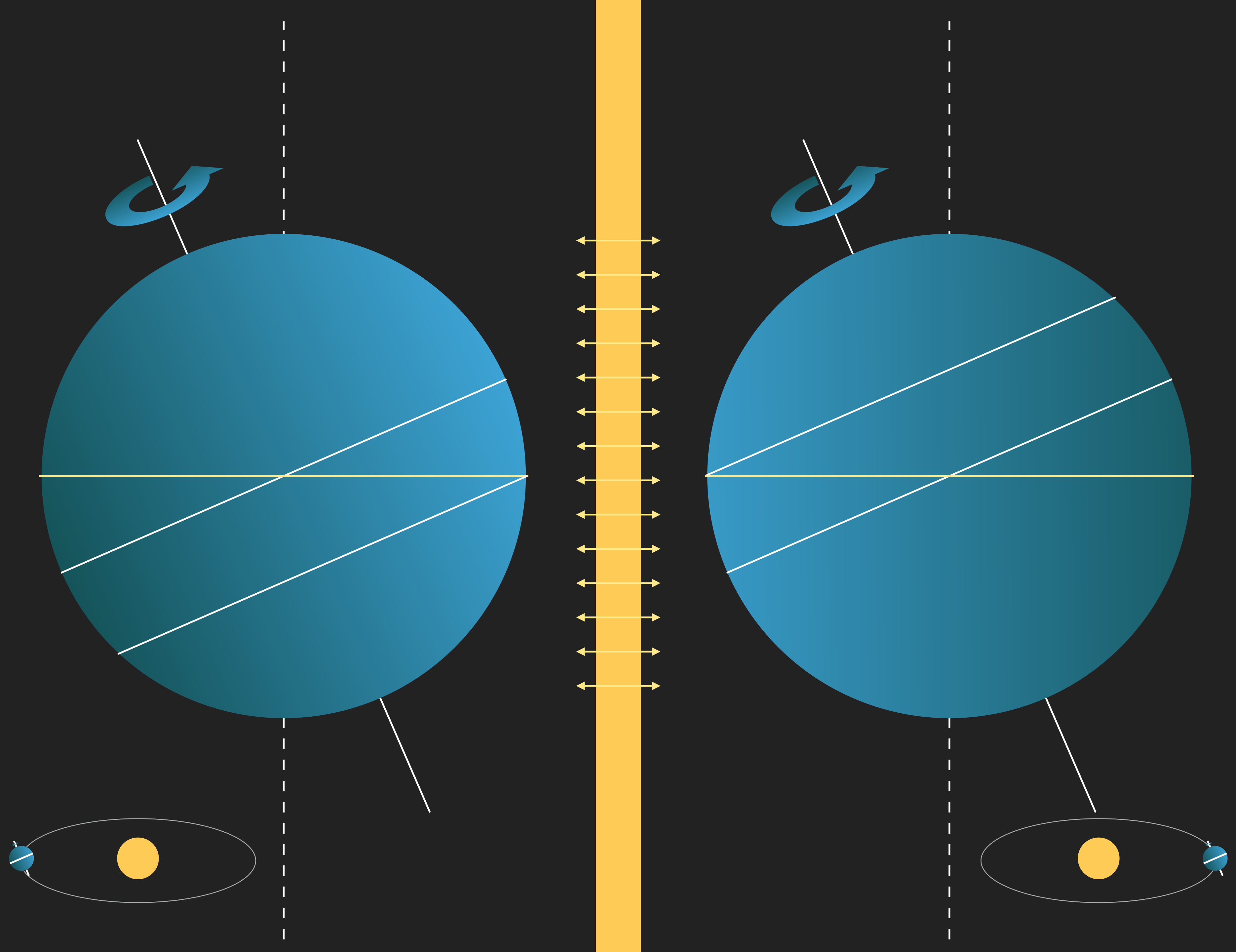
WITH CONSTANT TILT

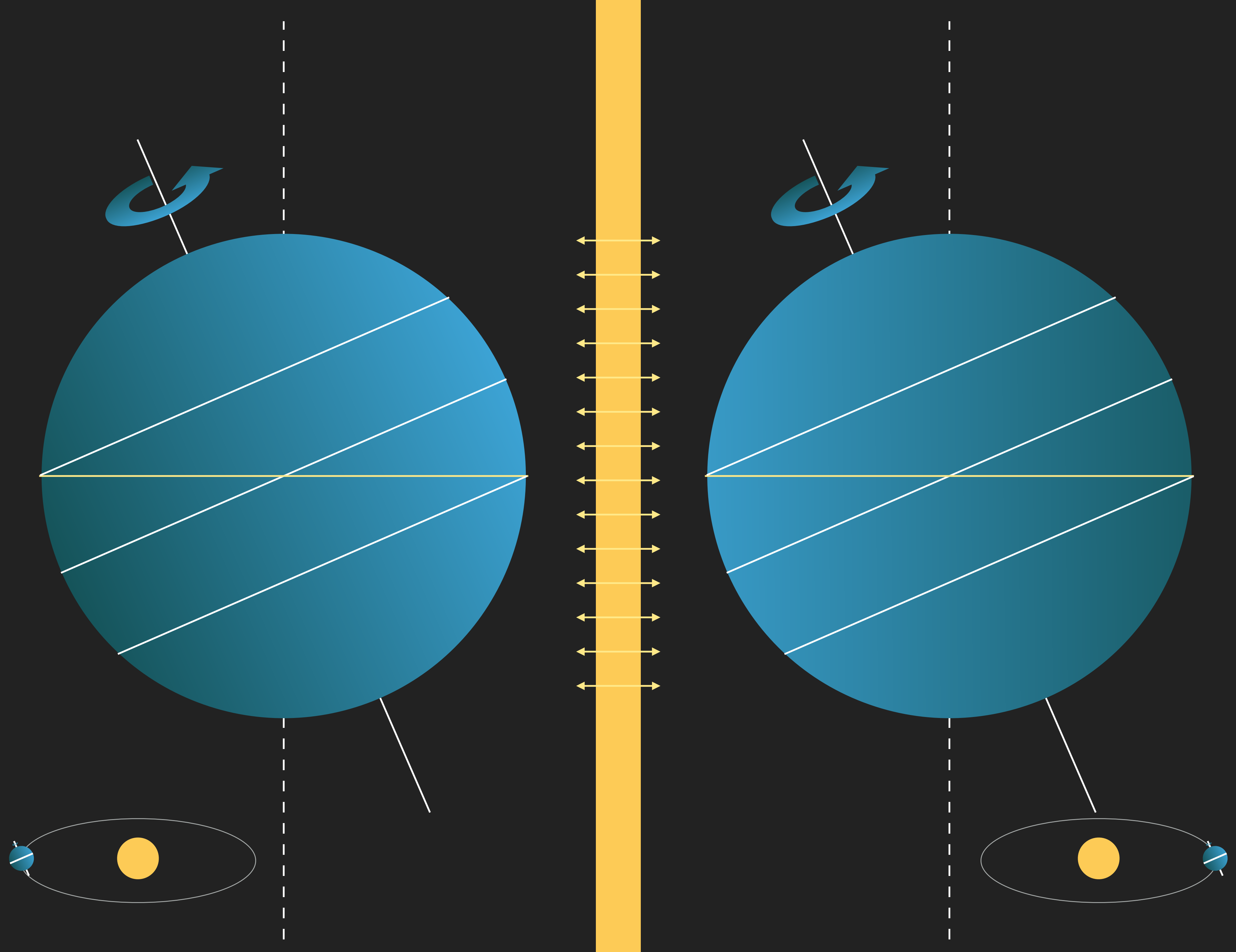


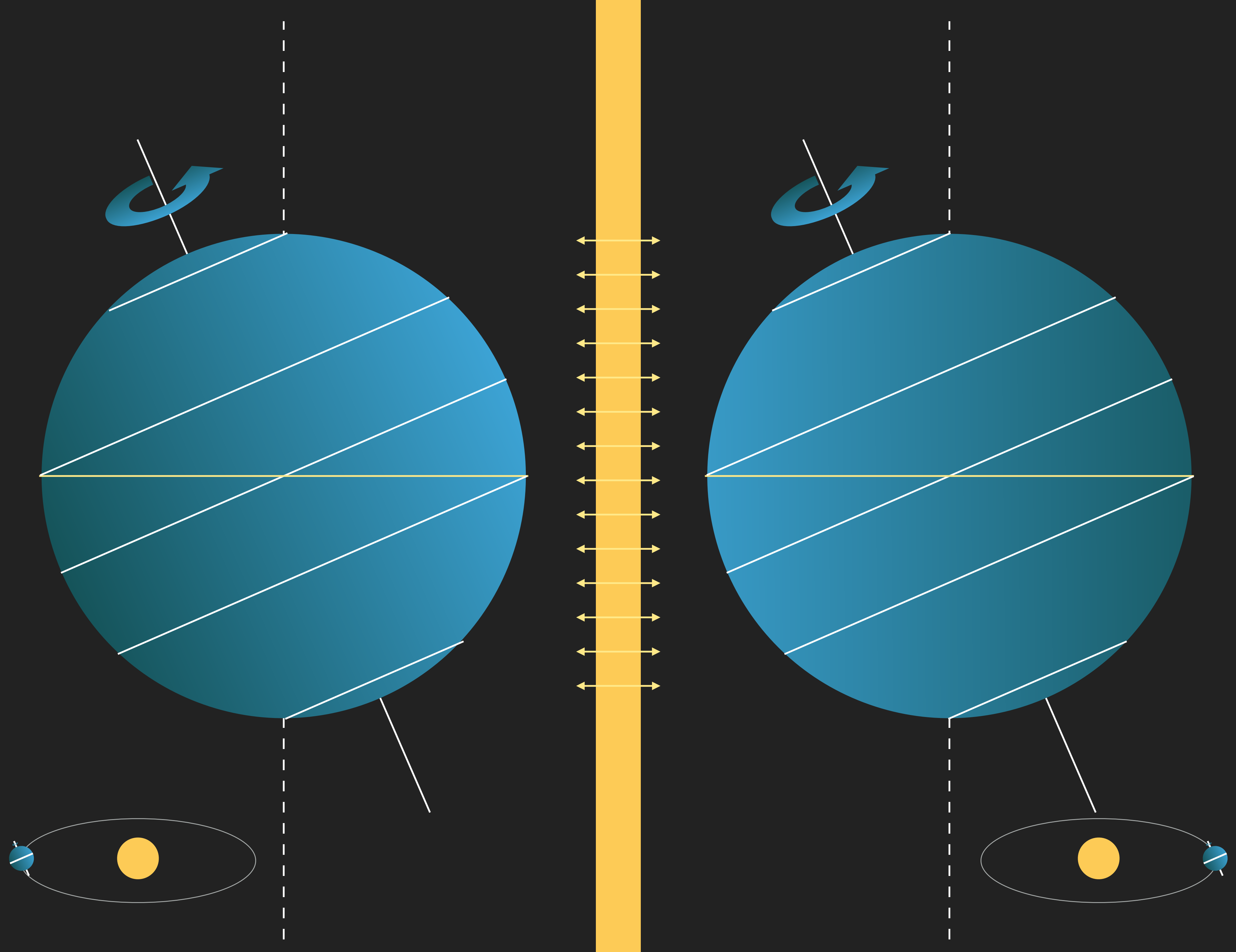


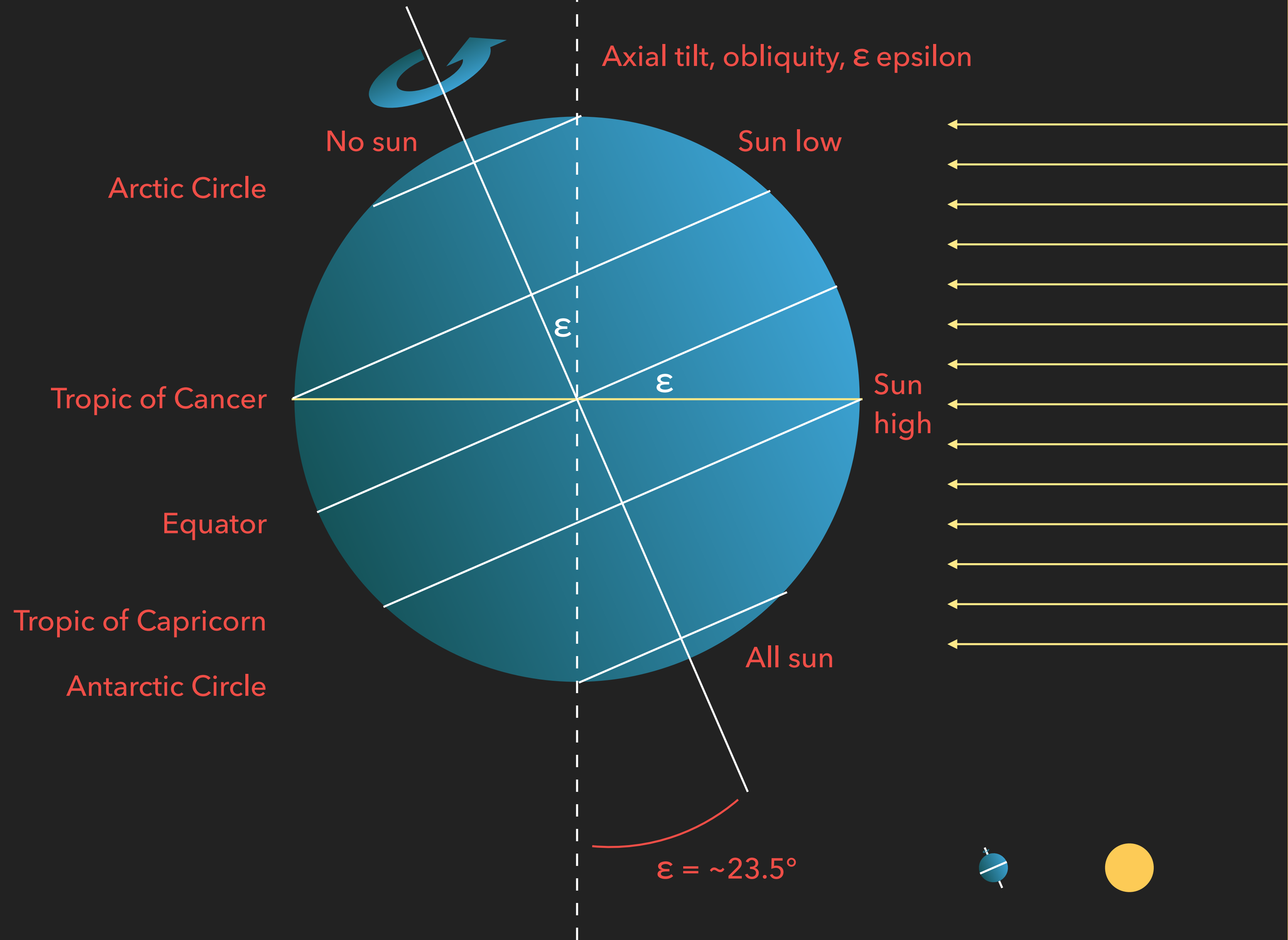


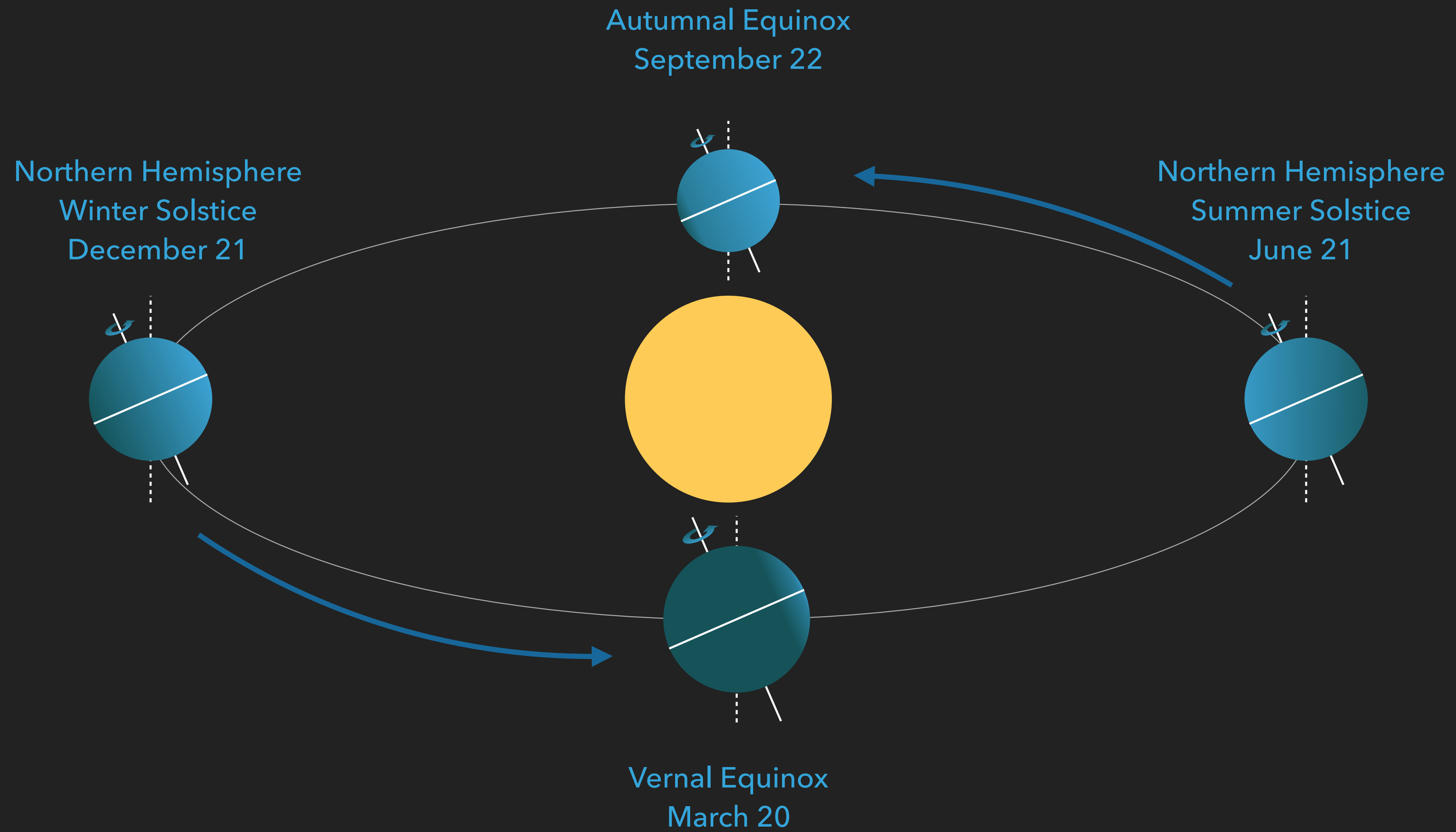






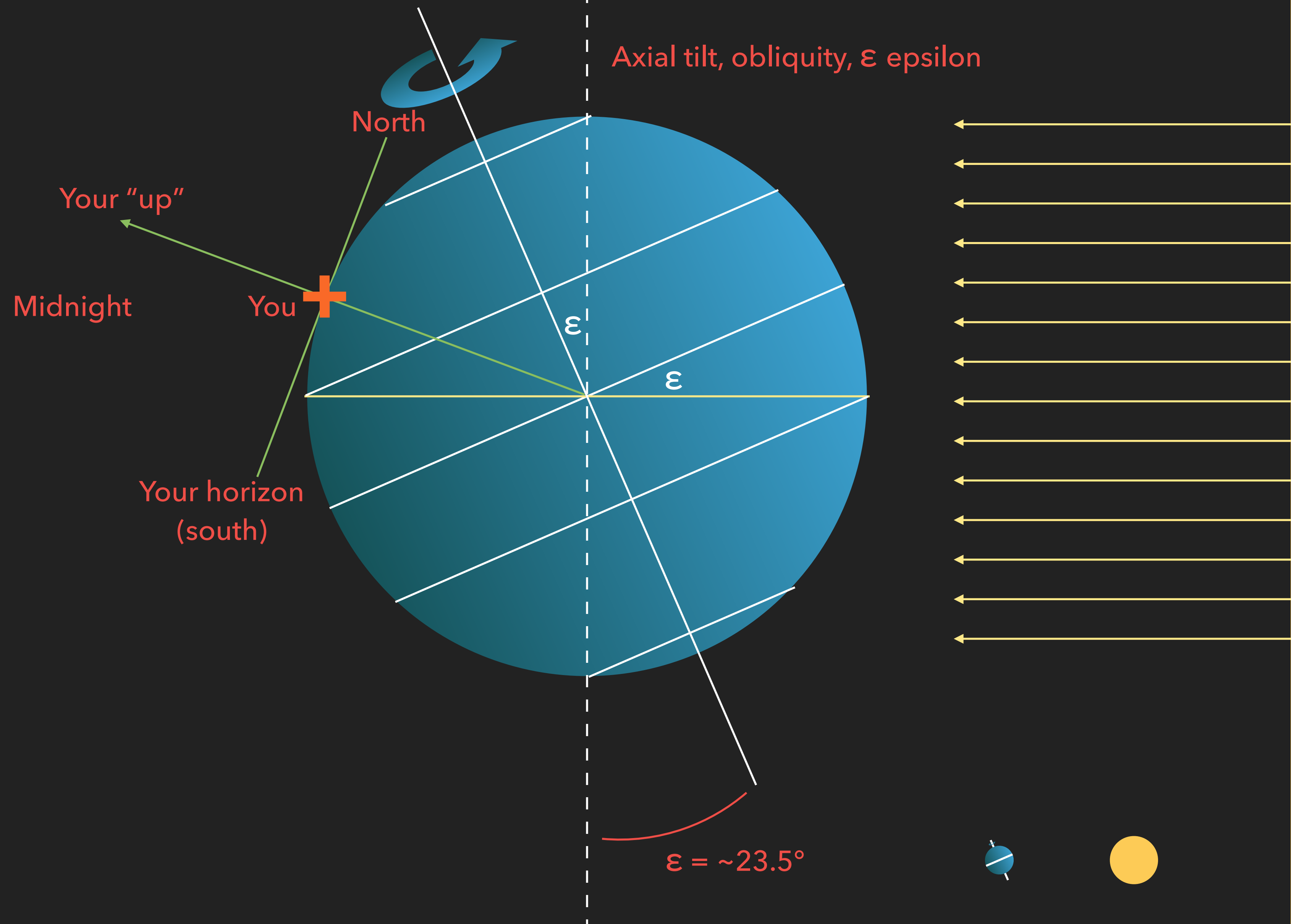




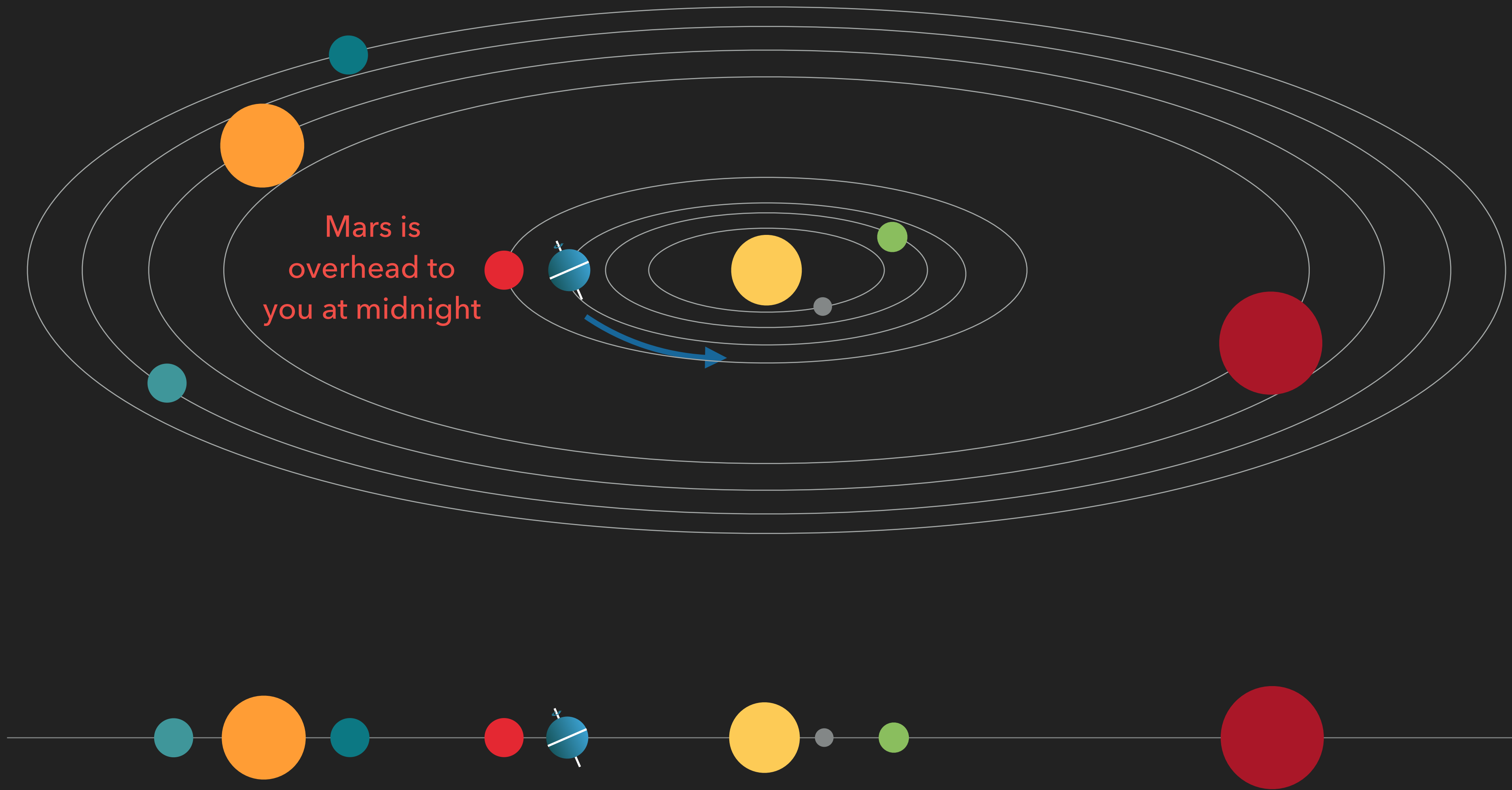


**(PHEW)**

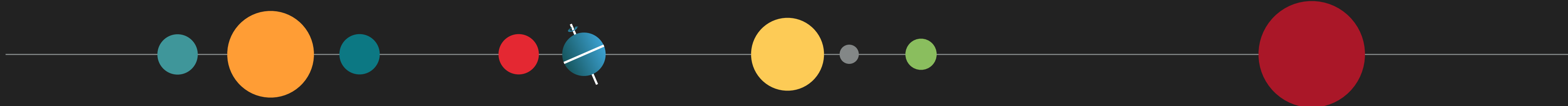
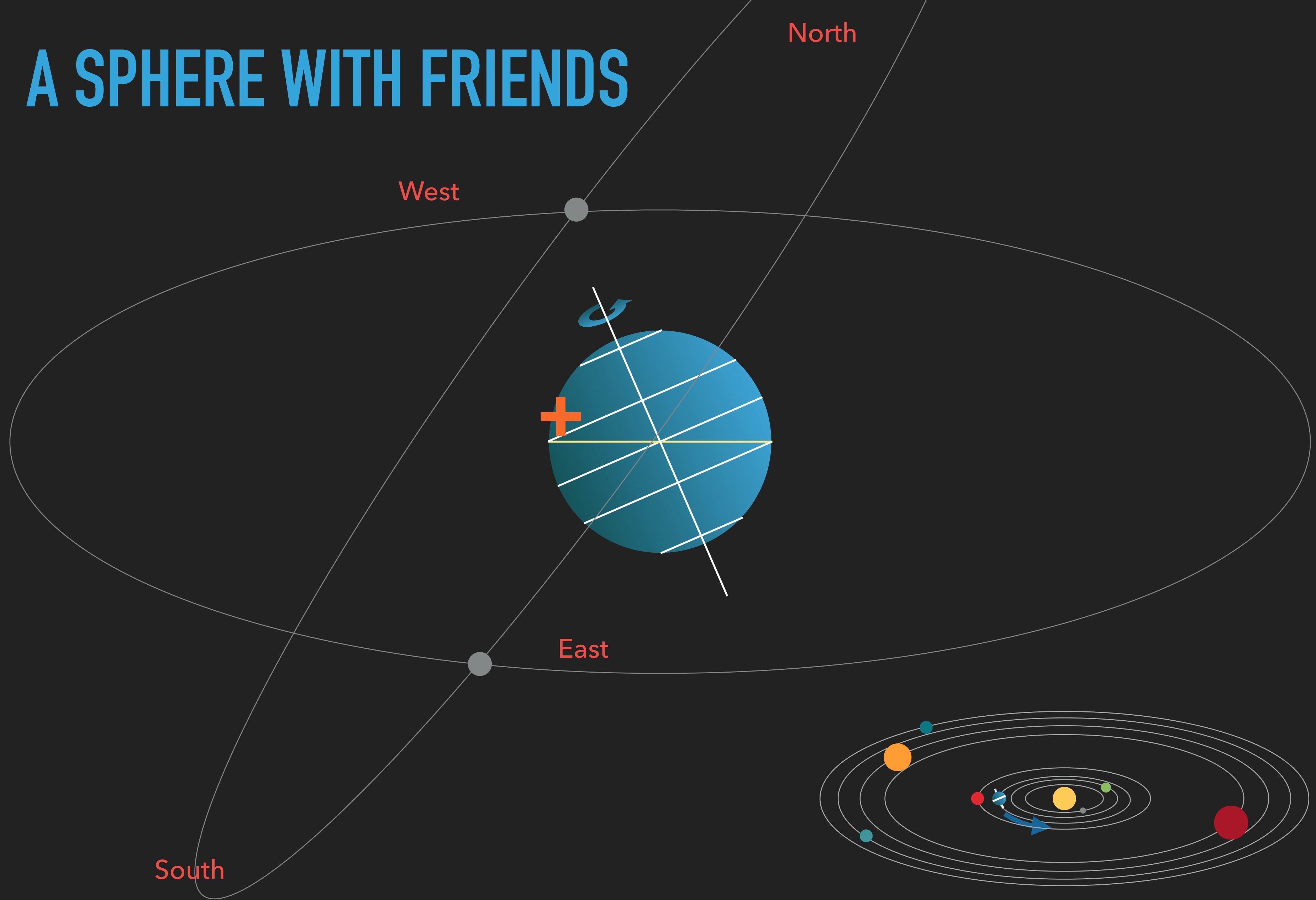


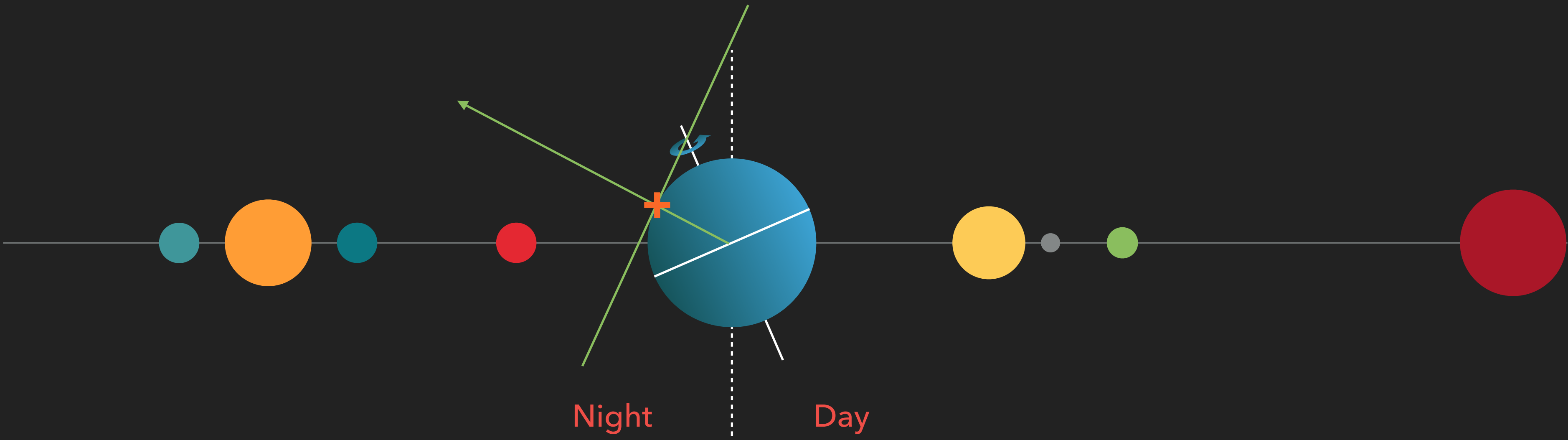
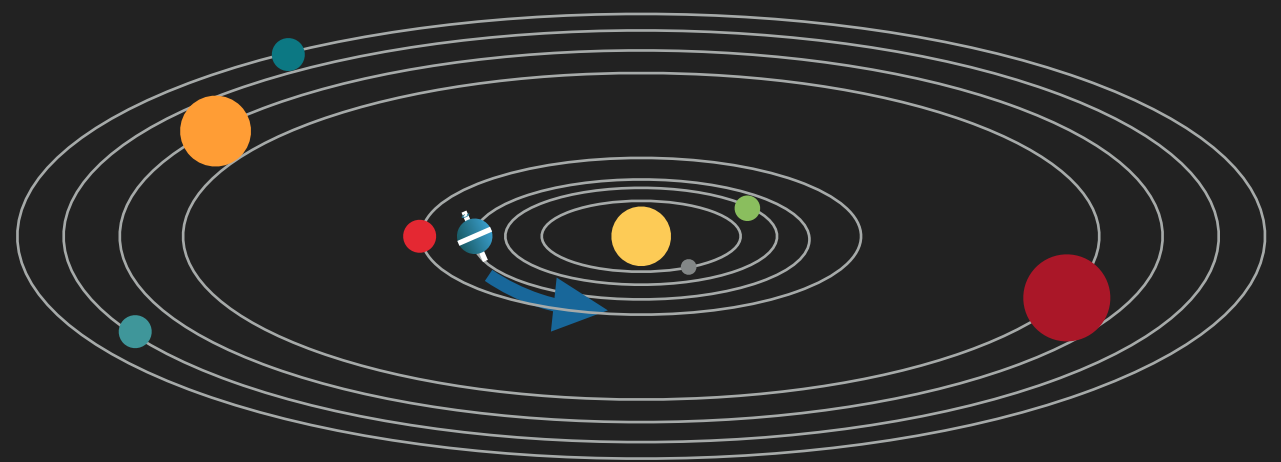


# A SPHERE WITH FRIENDS

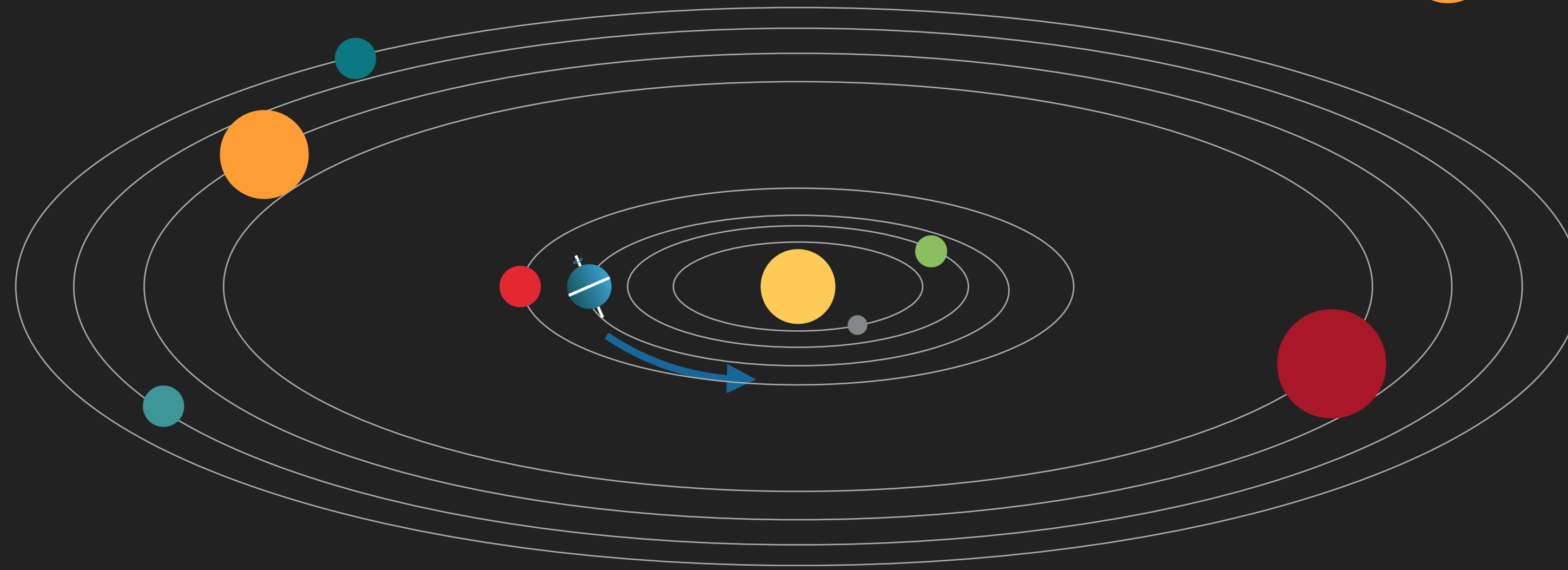


# A SPHERE WITH FRIENDS

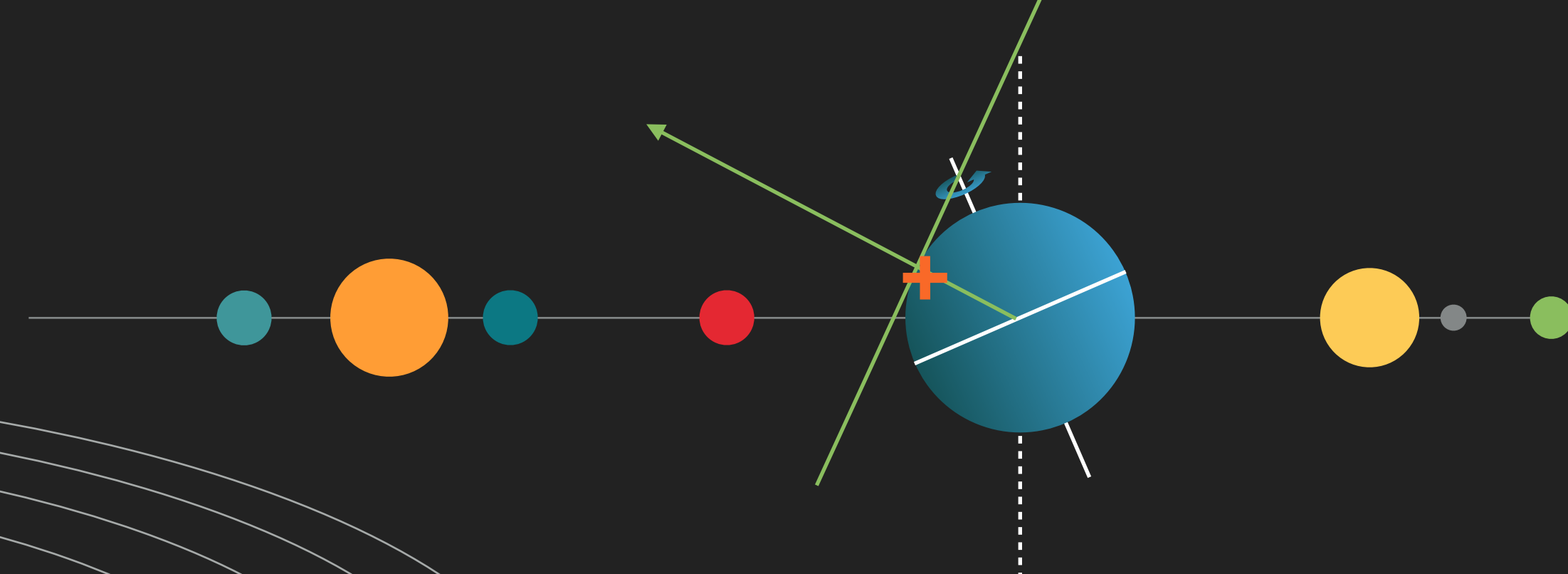




# ECLIPTIC



View from "outside" orrery



Mars is overhead

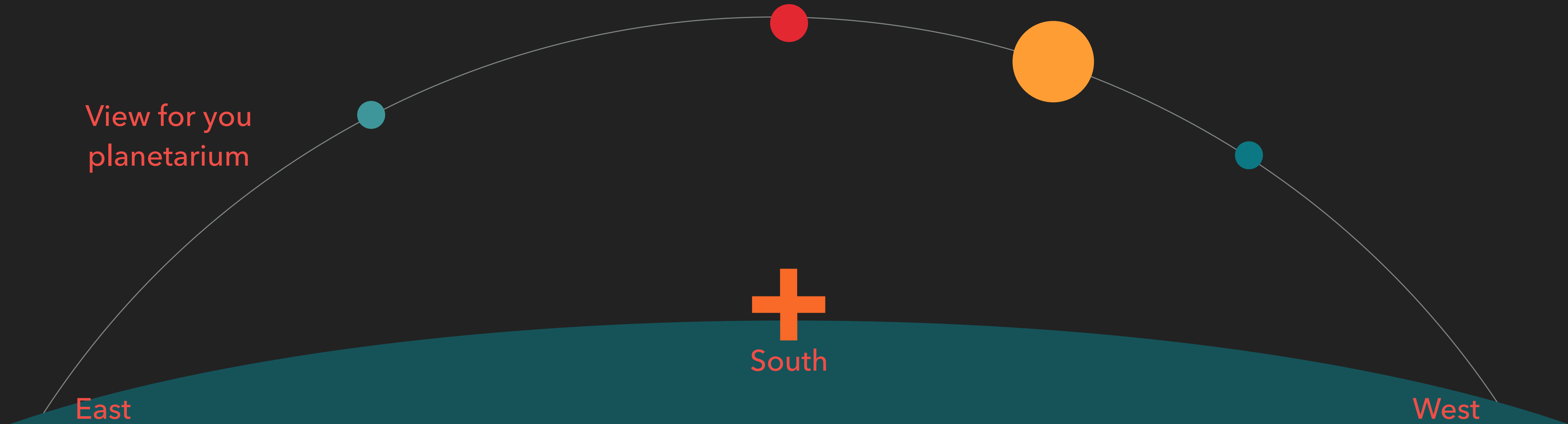
View for you planetarium

East

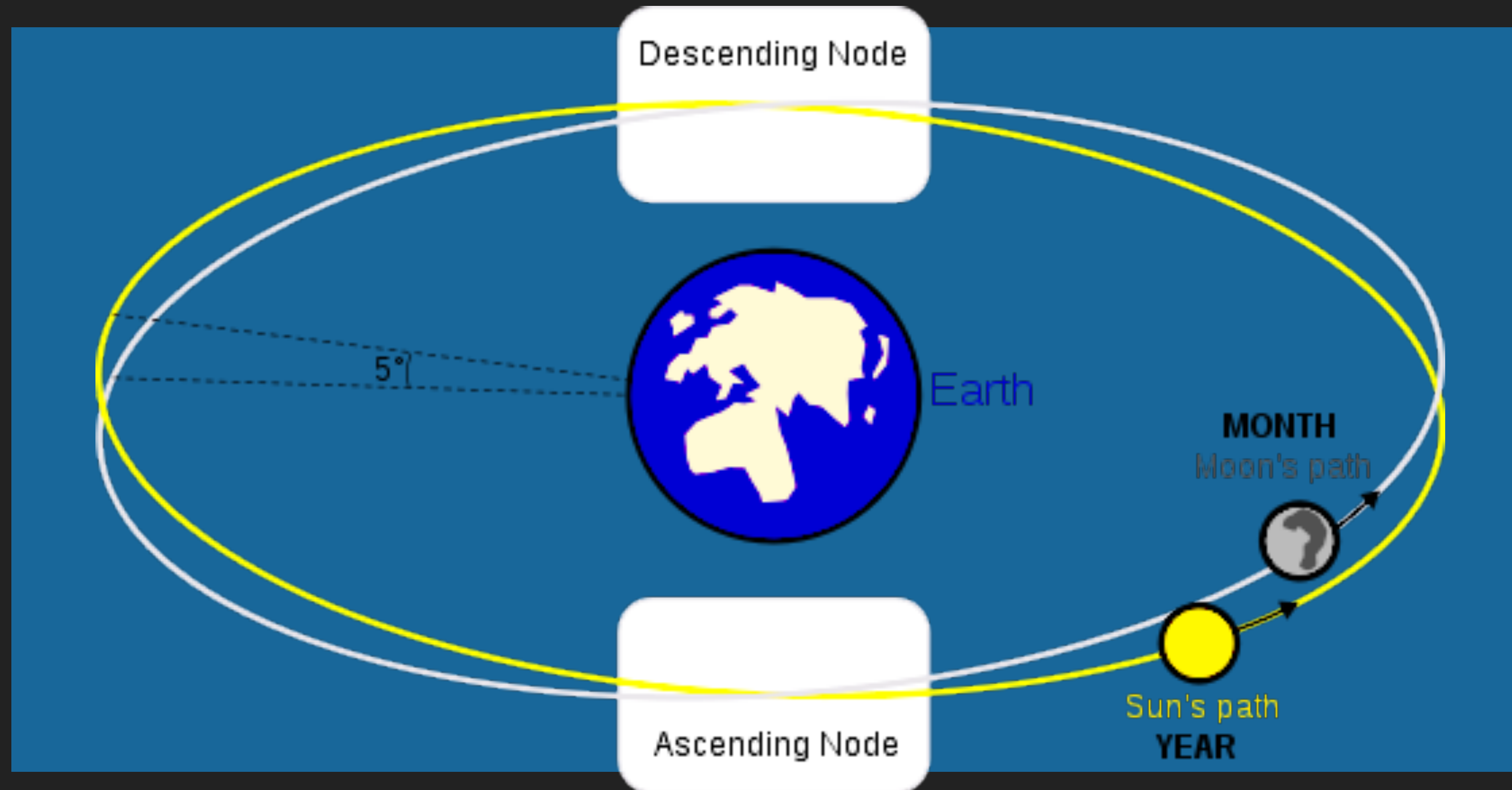


South

West

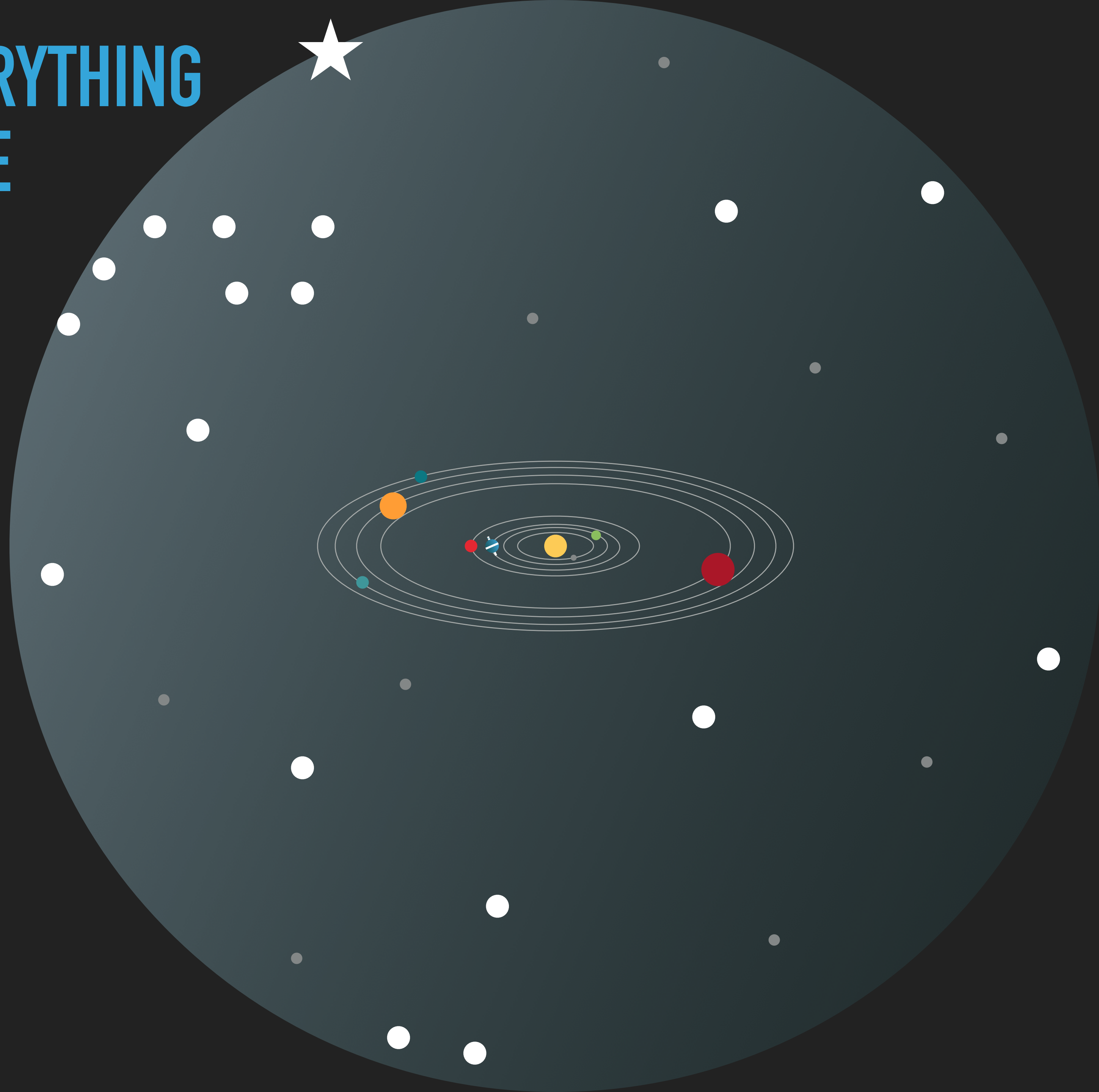


# WHY "ECLIPTIC"



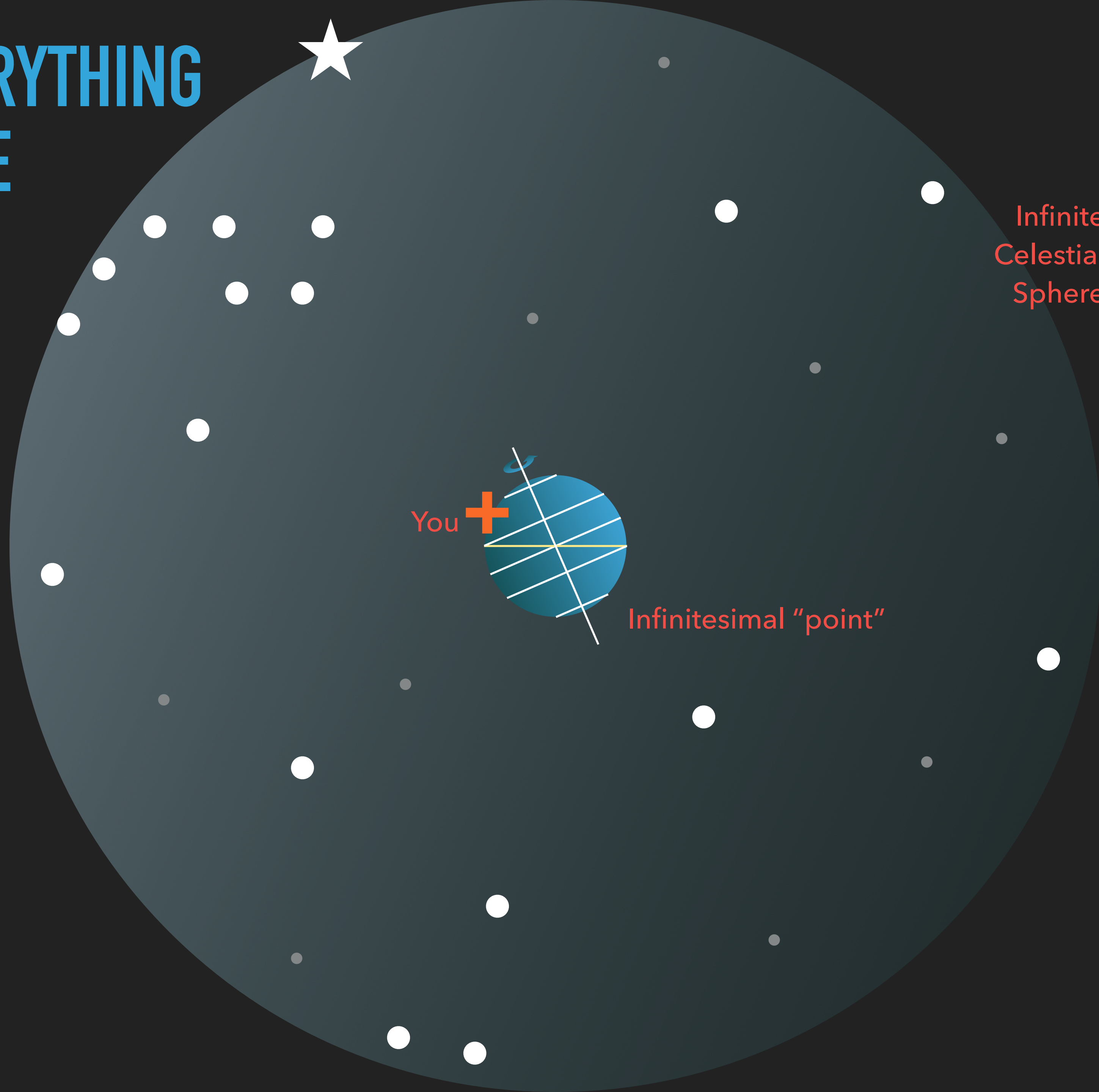
**(PHEW X 2)**

EVERYTHING  
ELSE





EVERYTHING  
ELSE

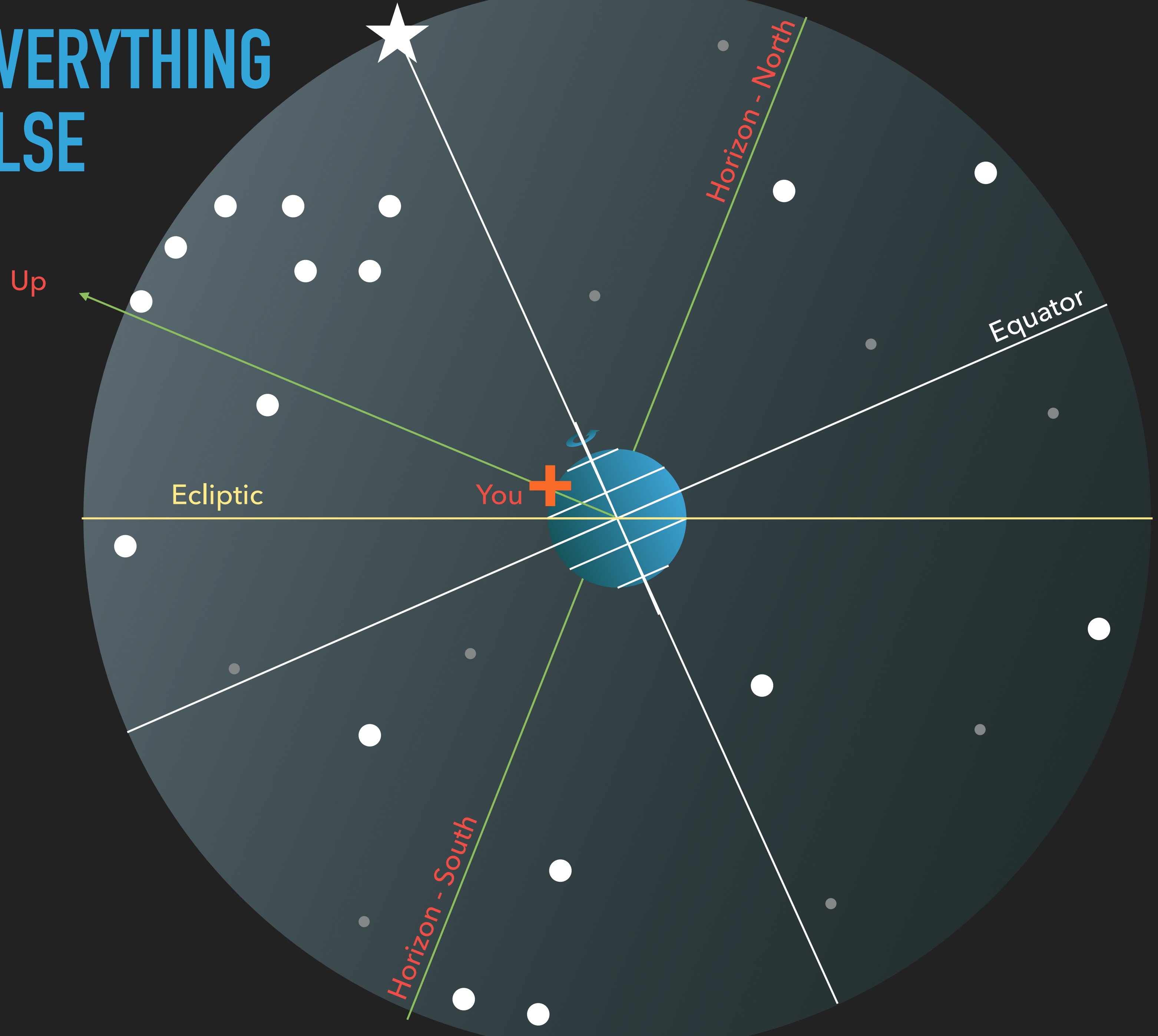


Infinite  
Celestial  
Sphere

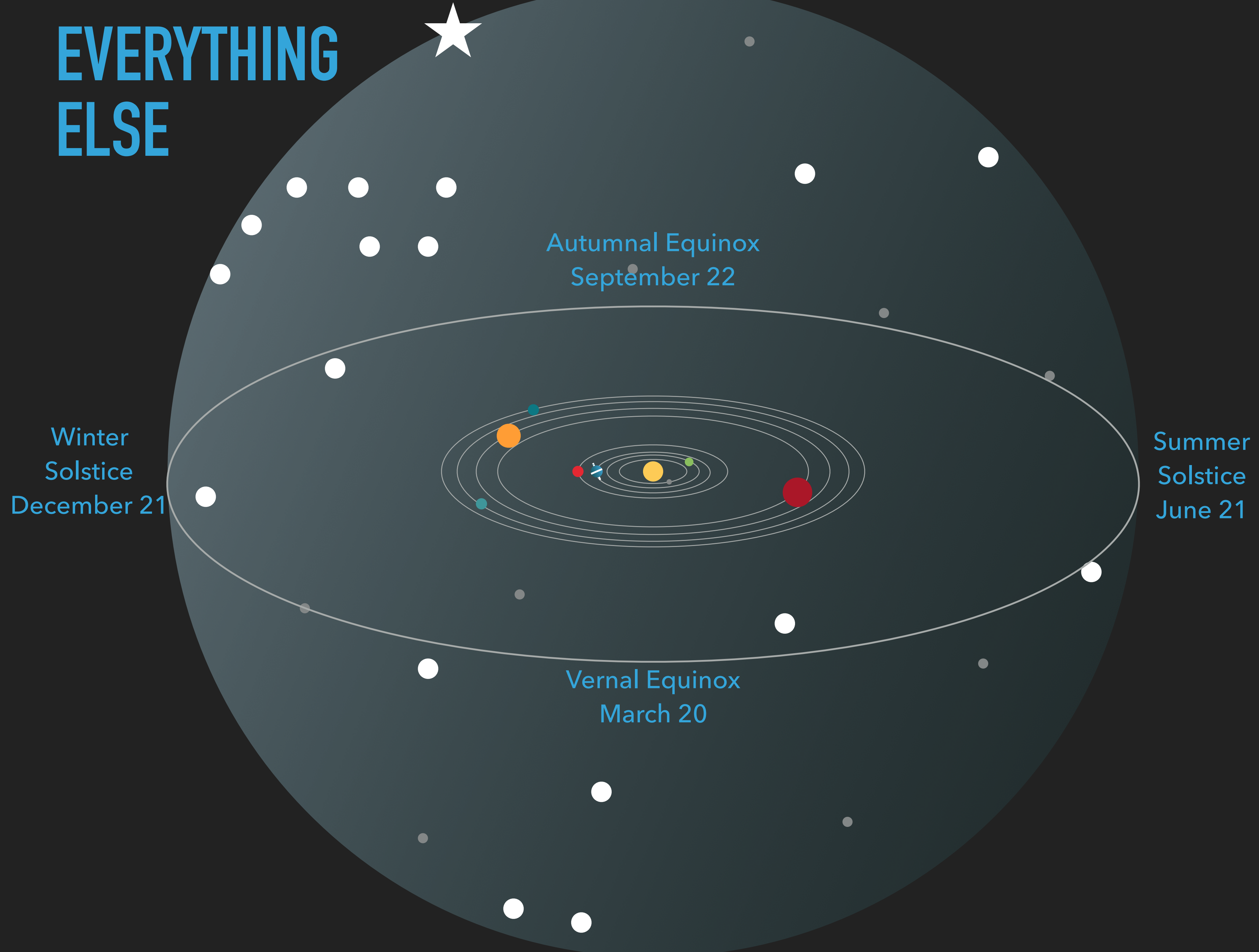
You +

Infinitesimal "point"

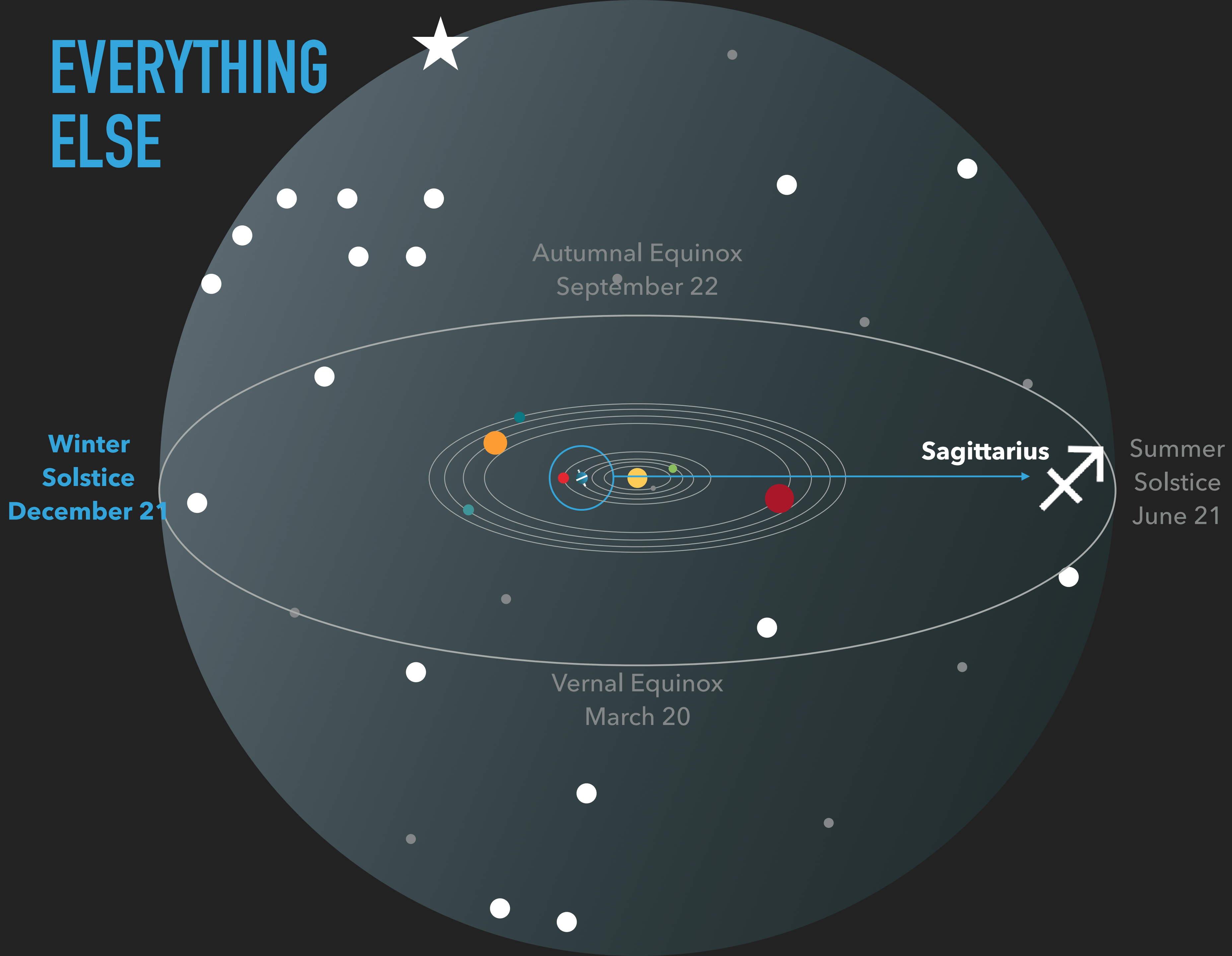
EVERYTHING  
ELSE



# EVERYTHING ELSE



**EVERYTHING  
ELSE**



Autumnal Equinox  
September 22

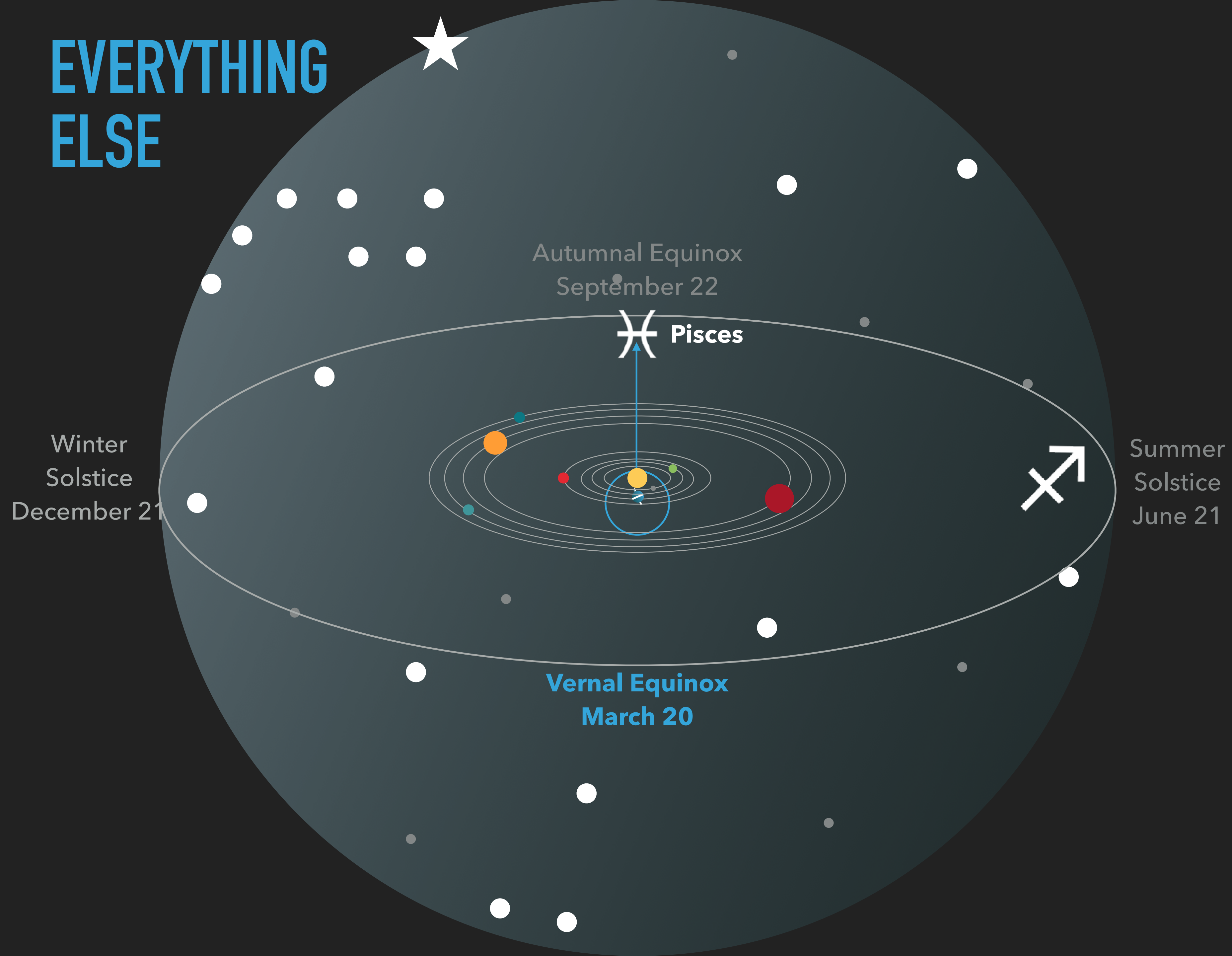
**Winter  
Solstice  
December 21**

**Sagittarius**

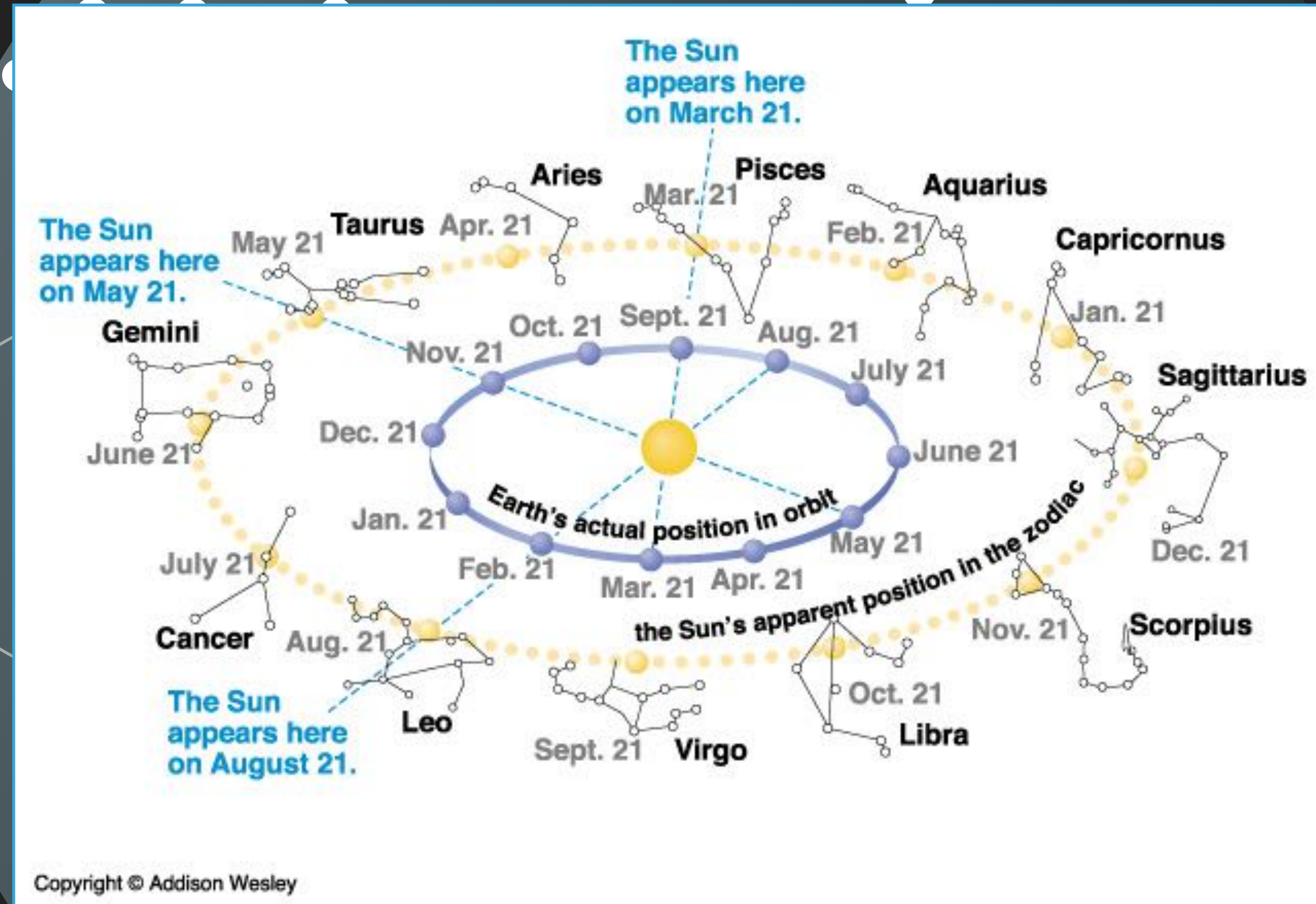
Summer  
Solstice  
June 21

Vernal Equinox  
March 20

# EVERYTHING ELSE



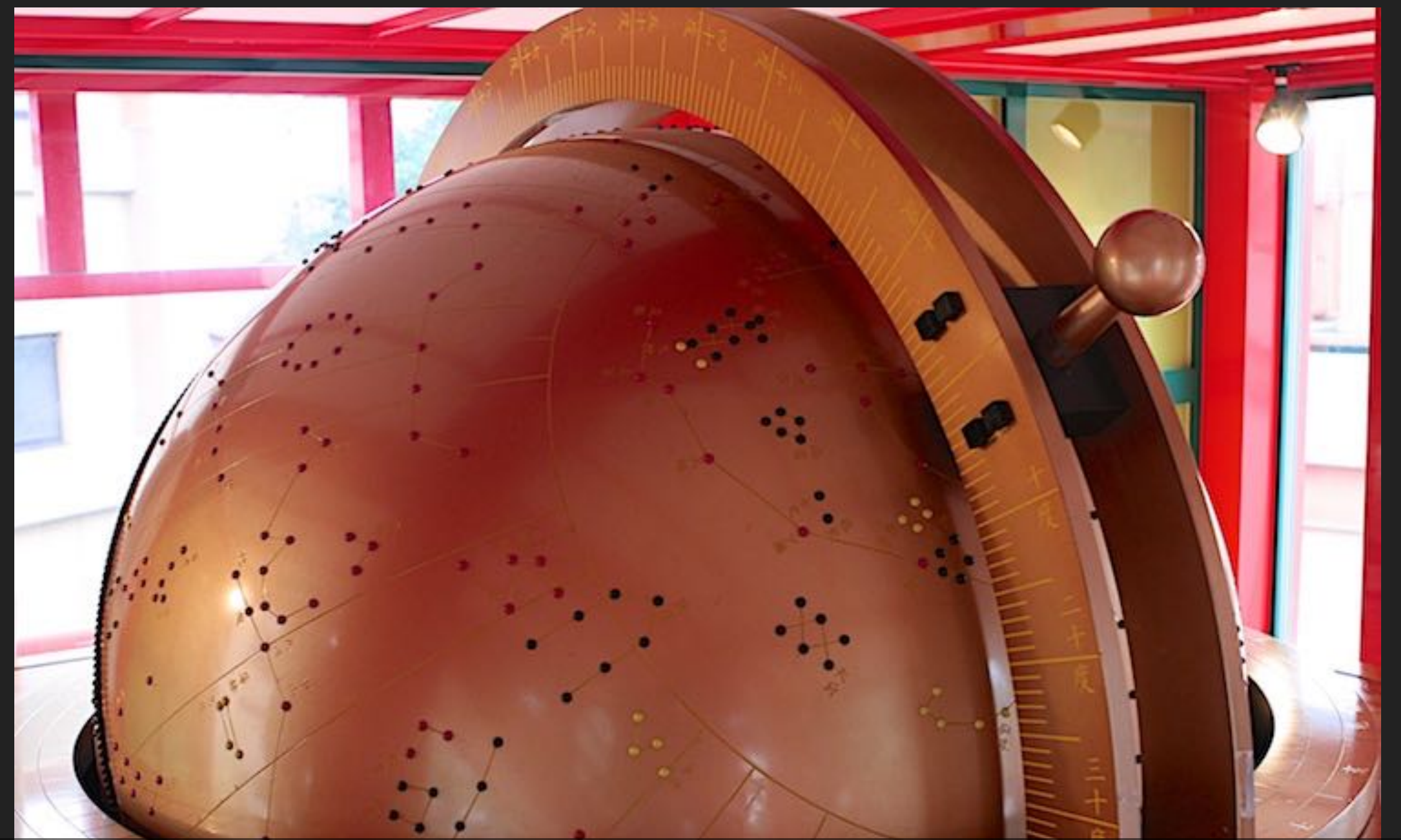
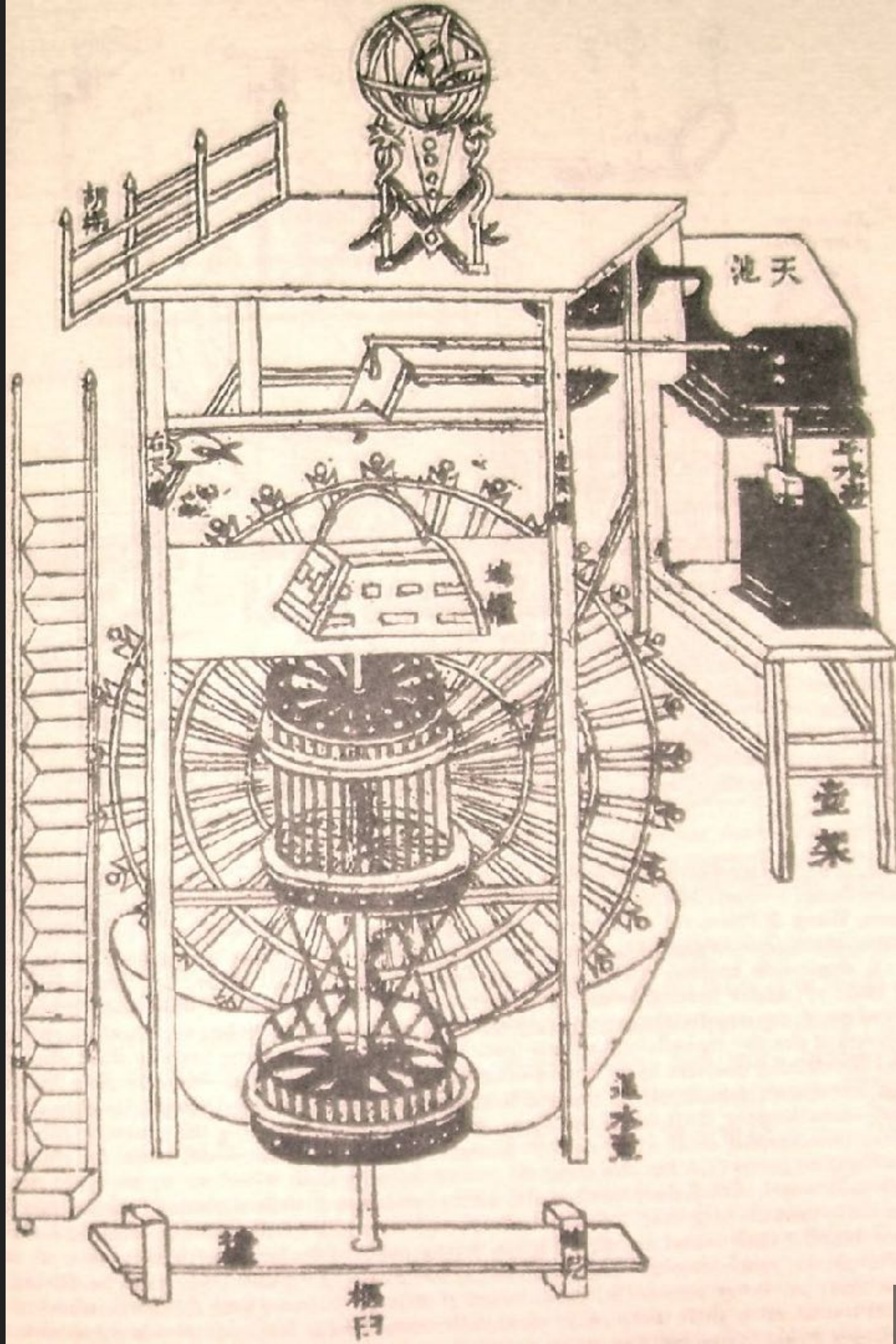
# EVERYTHING ELSE



Winter  
Solstice  
December 21

Summer  
Solstice  
June 21

**(PHEW X 3)**







## 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.**”



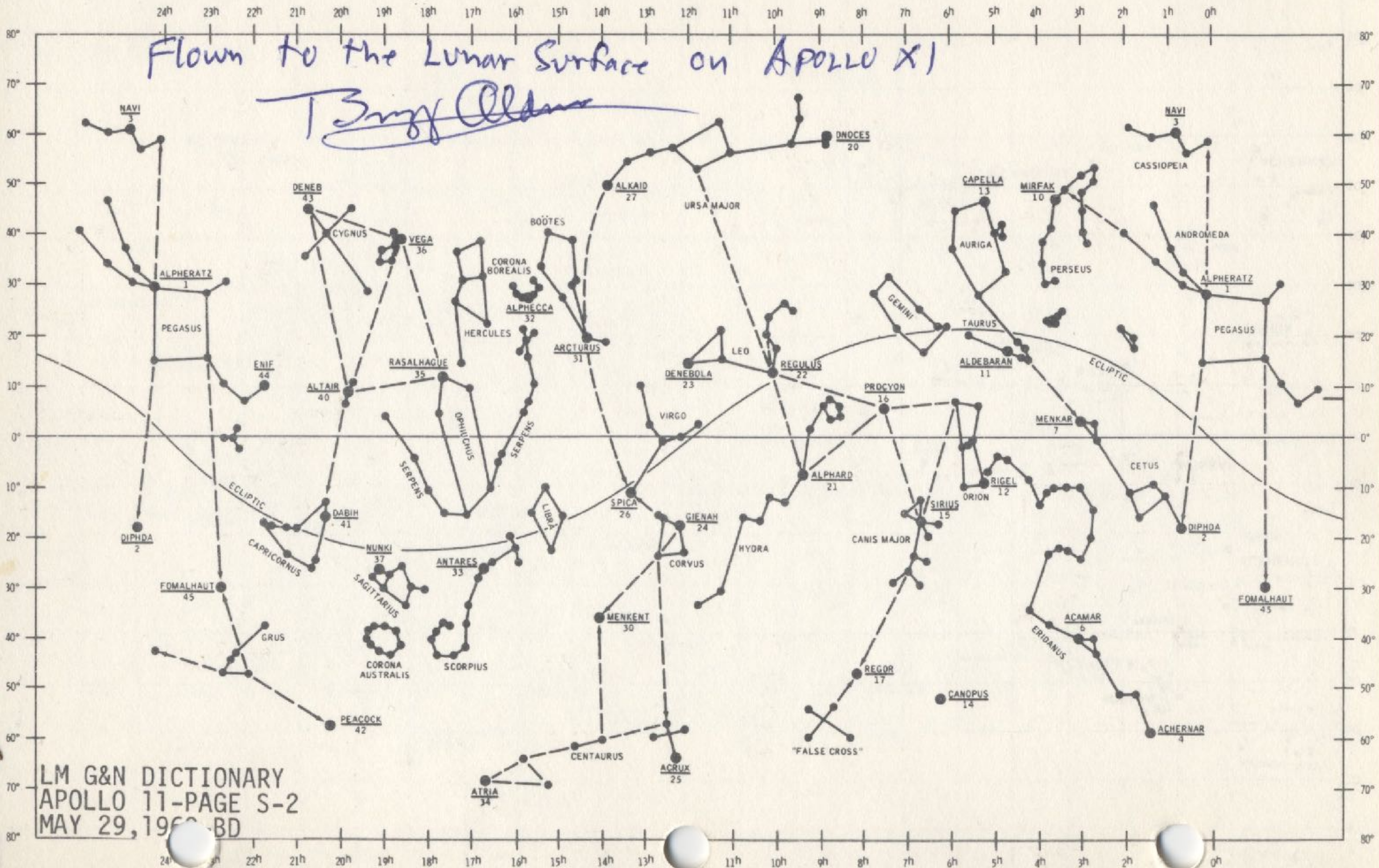
**ARMILLARY  
SPHERE MADE  
BY GIROLAMO  
DELLA  
VOLPAIA,  
FLORENCE,  
ITALY, 01554**



# AUGHRA'S ORRERY

Dark Crystal

*Flown to the Lunar Surface on Apollo XI*  
*T. Buzz Aldrin*



LM G&N DICTIONARY  
APOLLO 11-PAGE S-2  
MAY 29, 1969-BD

Voyager 1 Has Date with a Star x | NASA's Voyager 2 heads for st... x | Star Atlas x +

staratlas.com

S 176° Alt 41°  
FOV 137° x 93°

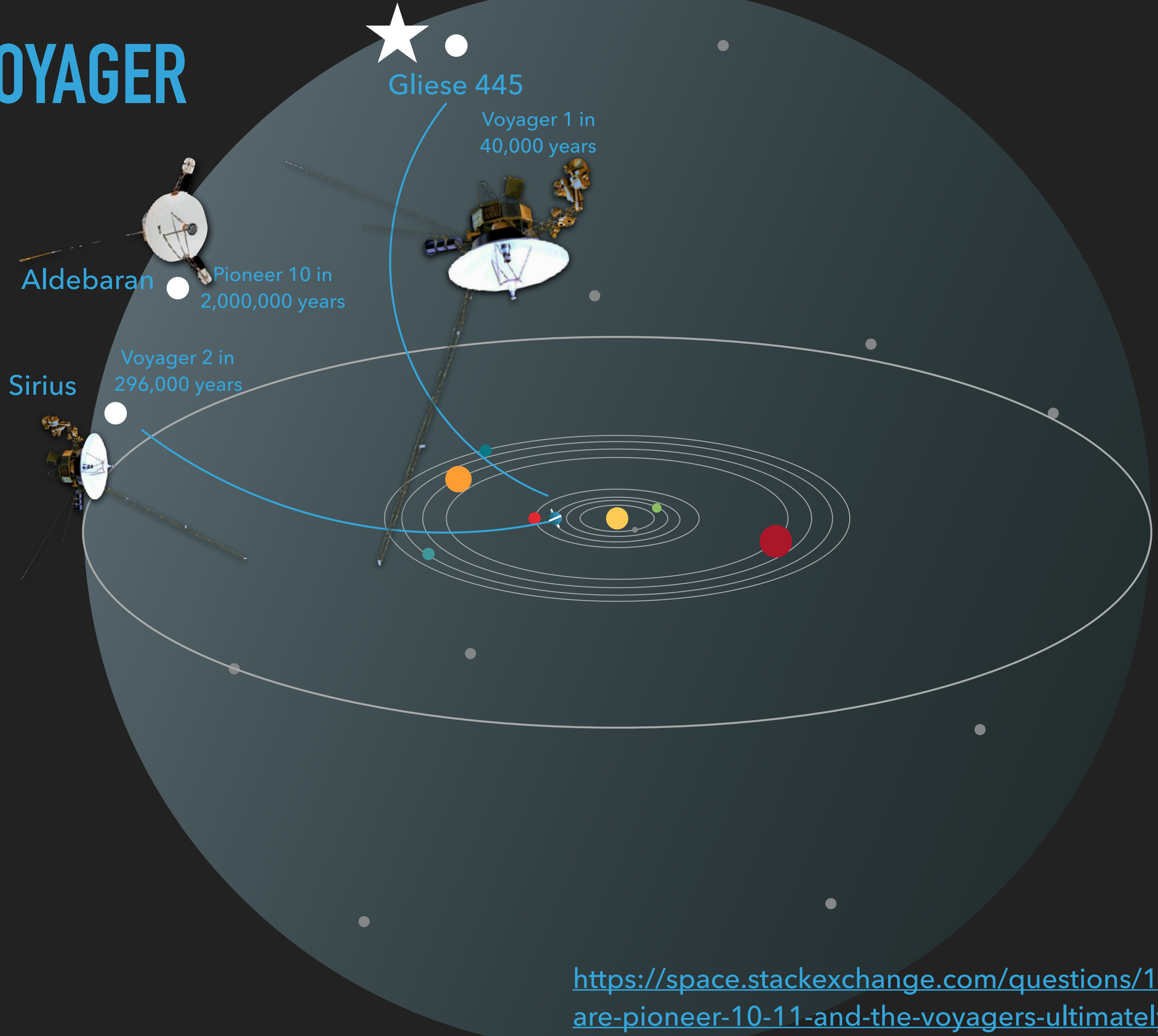
Castor  
Pollux  
GEMINI  
CANCER  
Aldebaran  
TAURUS  
Moon  
Uranus  
Betelgeuse  
ORION  
Rigel  
CETUS  
MONOCEROS  
Sirius  
LEPUS  
ERIDANUS  
CANIS MINOR  
Procyon  
CANIS MAJOR  
Adhara  
PUPPIS  
COLUMBA  
FORNAX  
CAELUM  
PYXIS

2019 Dec 10 00 : 19 : 42

Montclair, Essex County, USA

Star Atlas © 20... Neave Interactiv...

# VOYAGER



<https://space.stackexchange.com/questions/1621/where-are-pioneer-10-11-and-the-voyagers-ultimately-headed>

