

A wide-angle photograph of a night sky over a mountainous landscape. The sky is filled with numerous star trails, indicating the rotation of the Earth. In the foreground, a paved road curves through a dark, rocky terrain. In the middle ground, a large mountain range is visible, with its peaks partially obscured by low-hanging clouds or fog. The horizon shows distant lights from a town or city.

How the Earth moves

Carolin Crawford
Gresham Professor of
Astronomy
P Michaud, Gemini Observatory



The Time Machine 1960

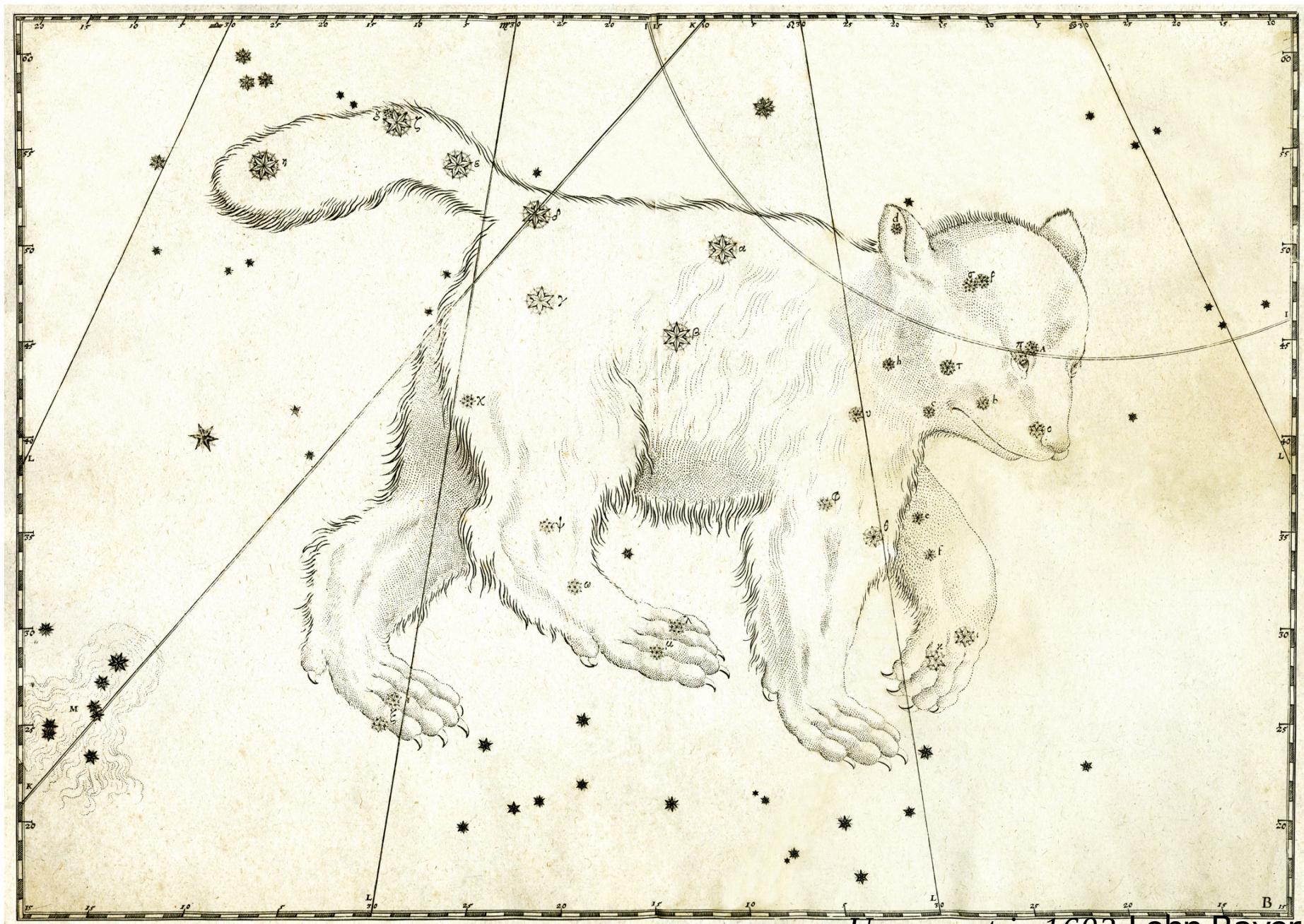


Pete Strasser





Jimmy Westlake



Uranometria 1603 John Bayer



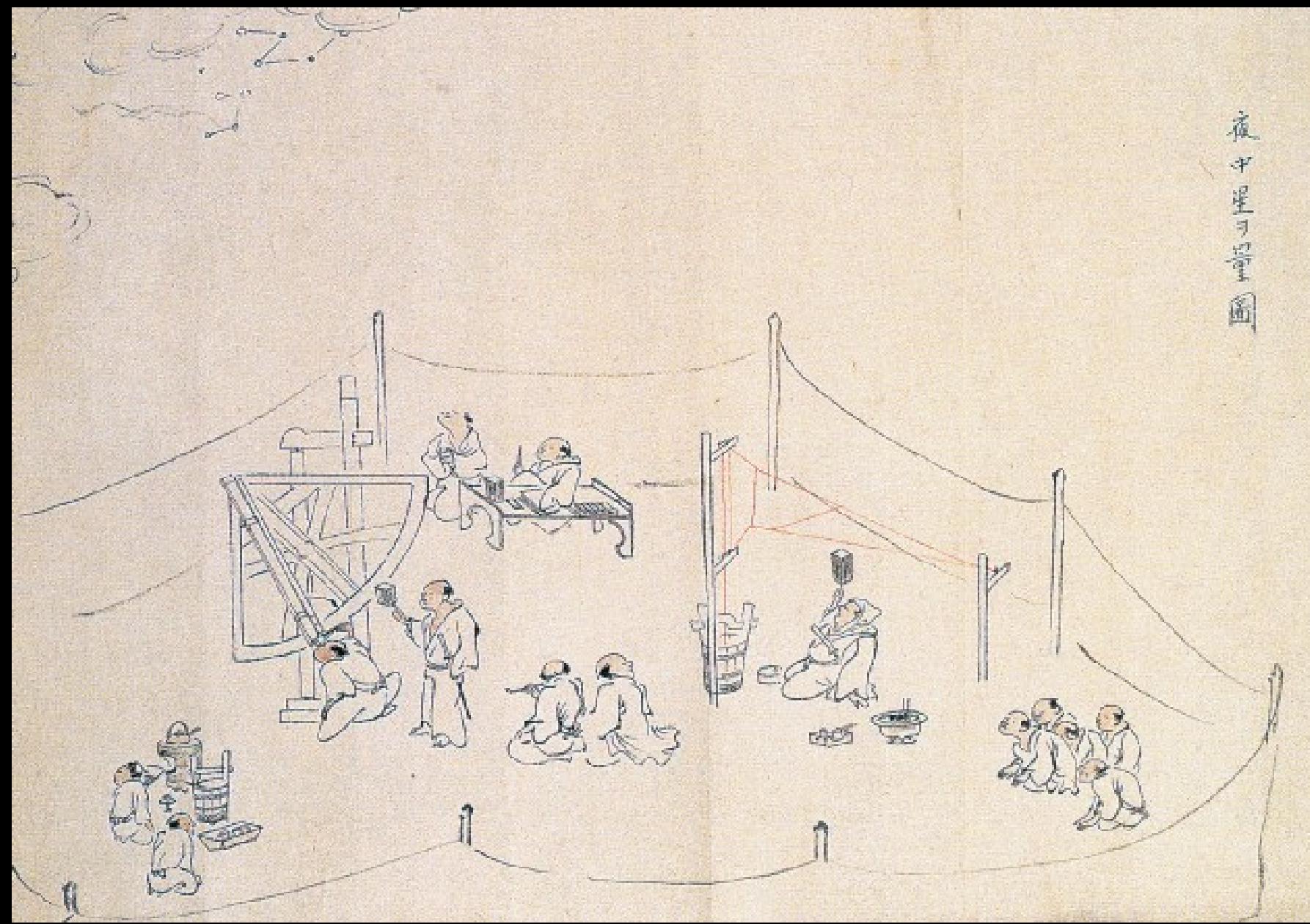
Uranometria 1603 John Bayer

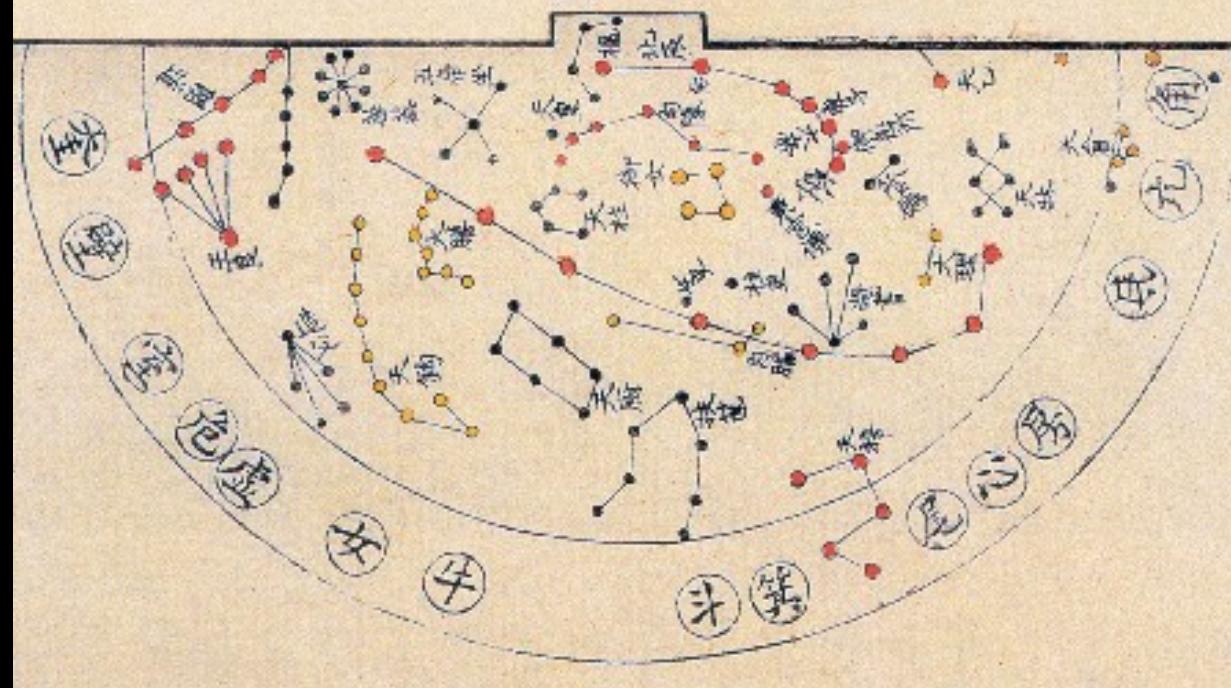
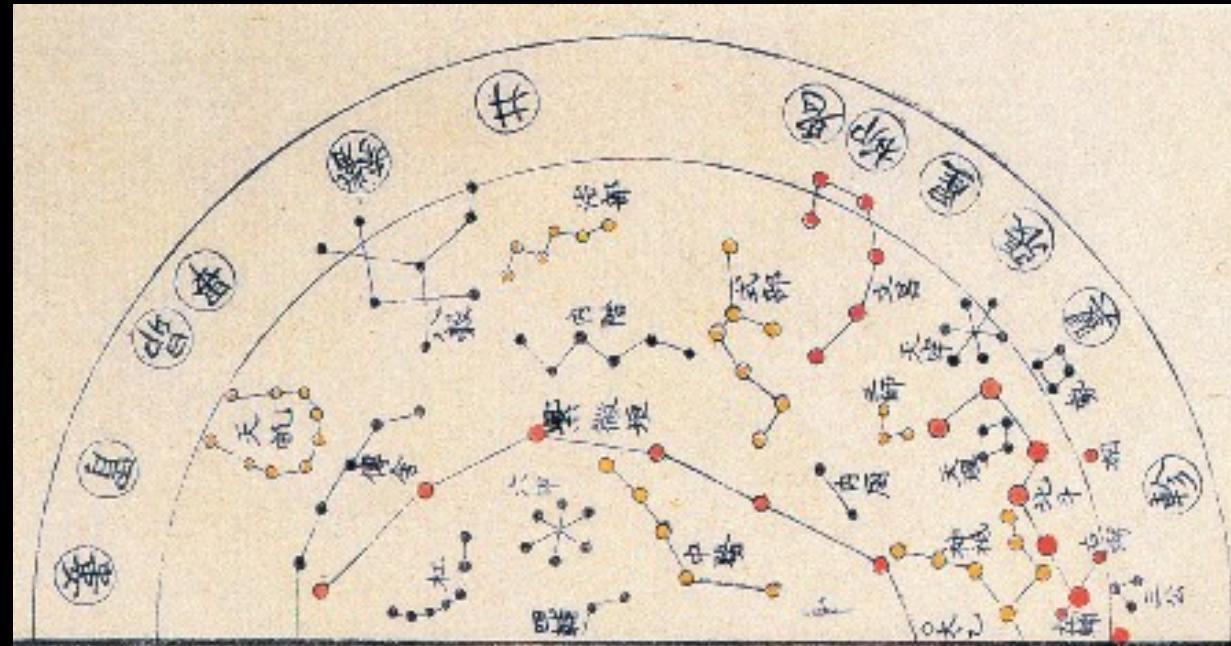


© www.lucianopedicini.it

Farnese Atlas, National Archaeological Museum, Naples

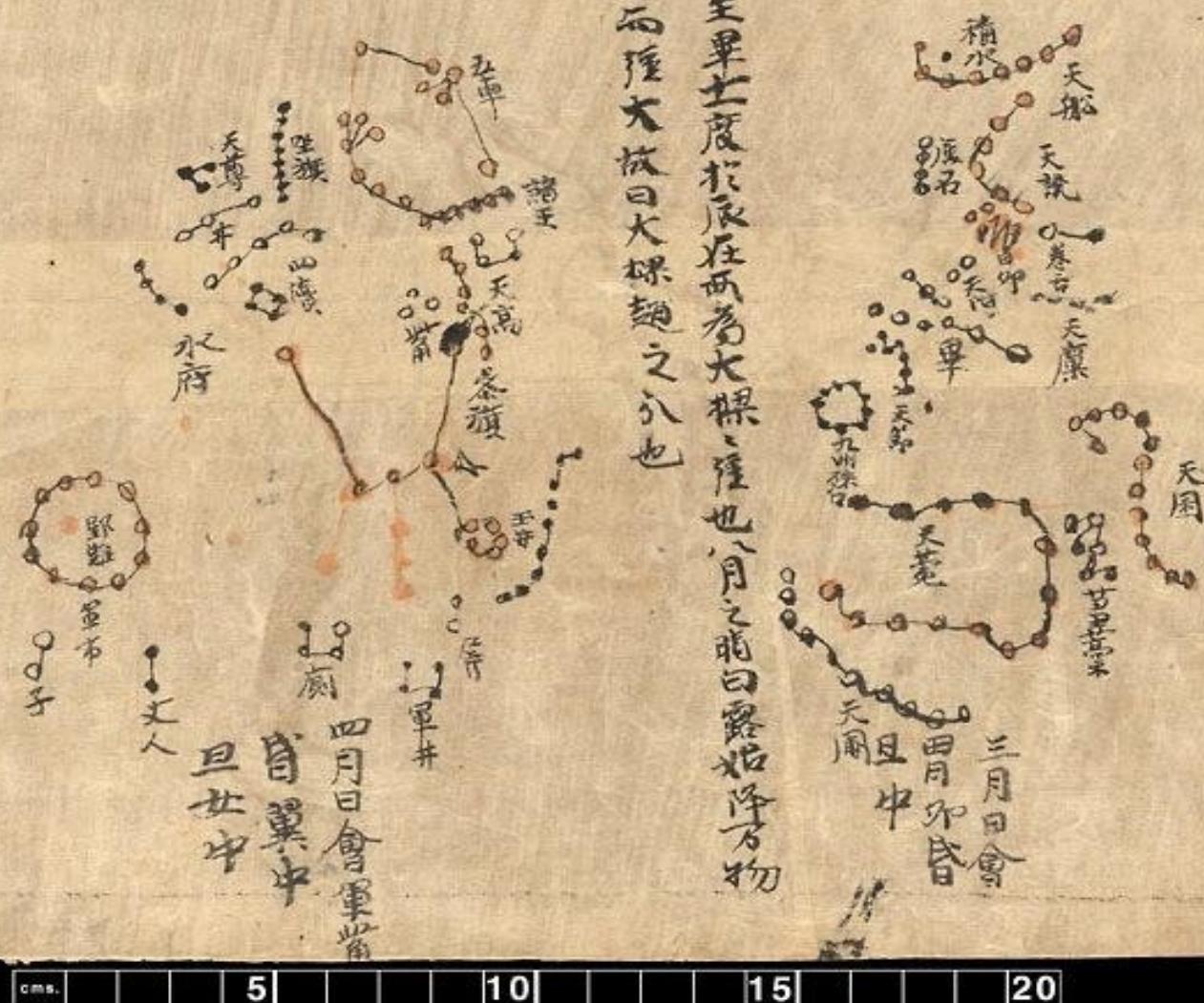
夜中星ヲ量圖

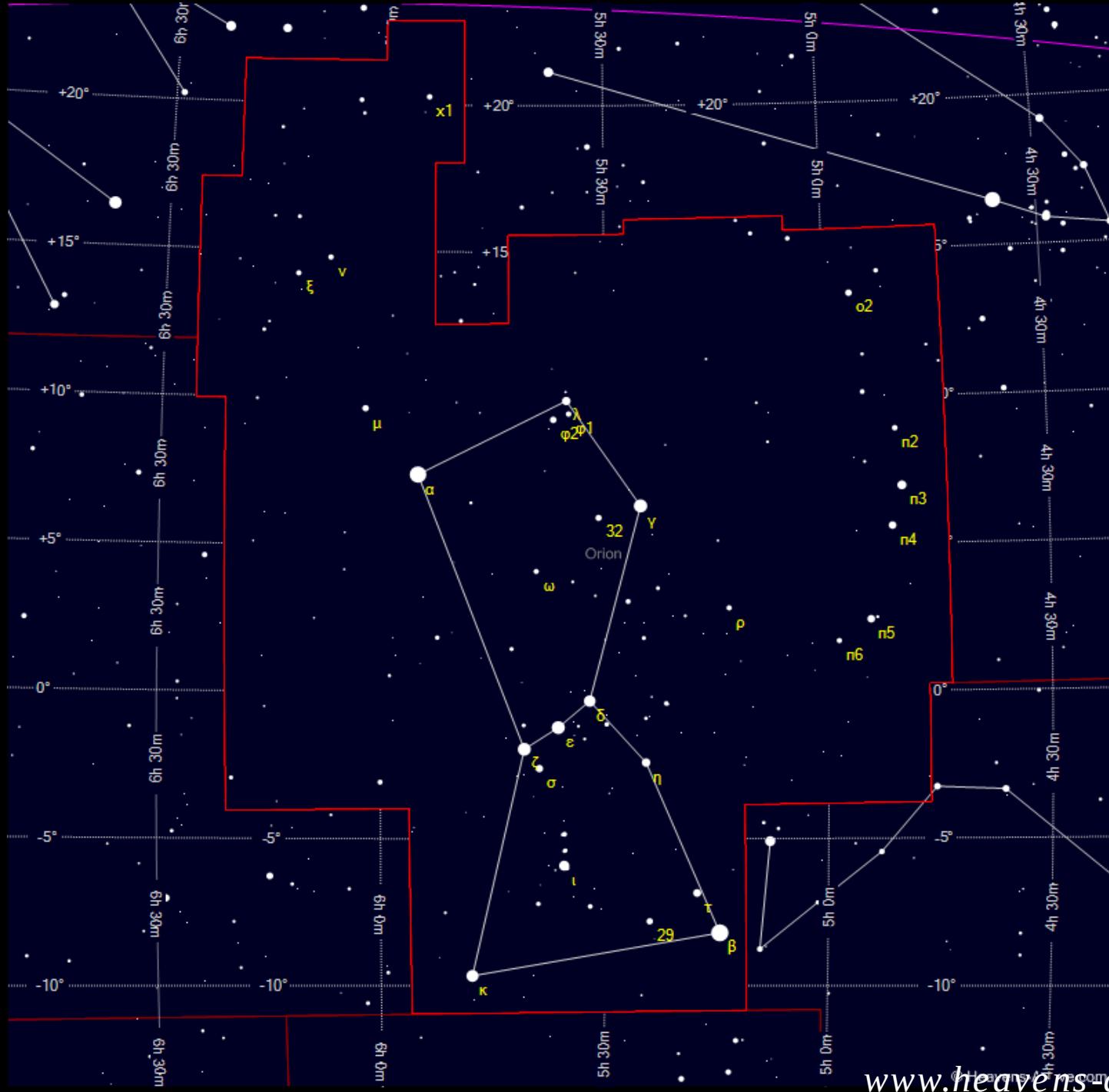




自畢七度至畢九度於辰在申為寶沉言宵之時万物雄盛陰氣沉重降實

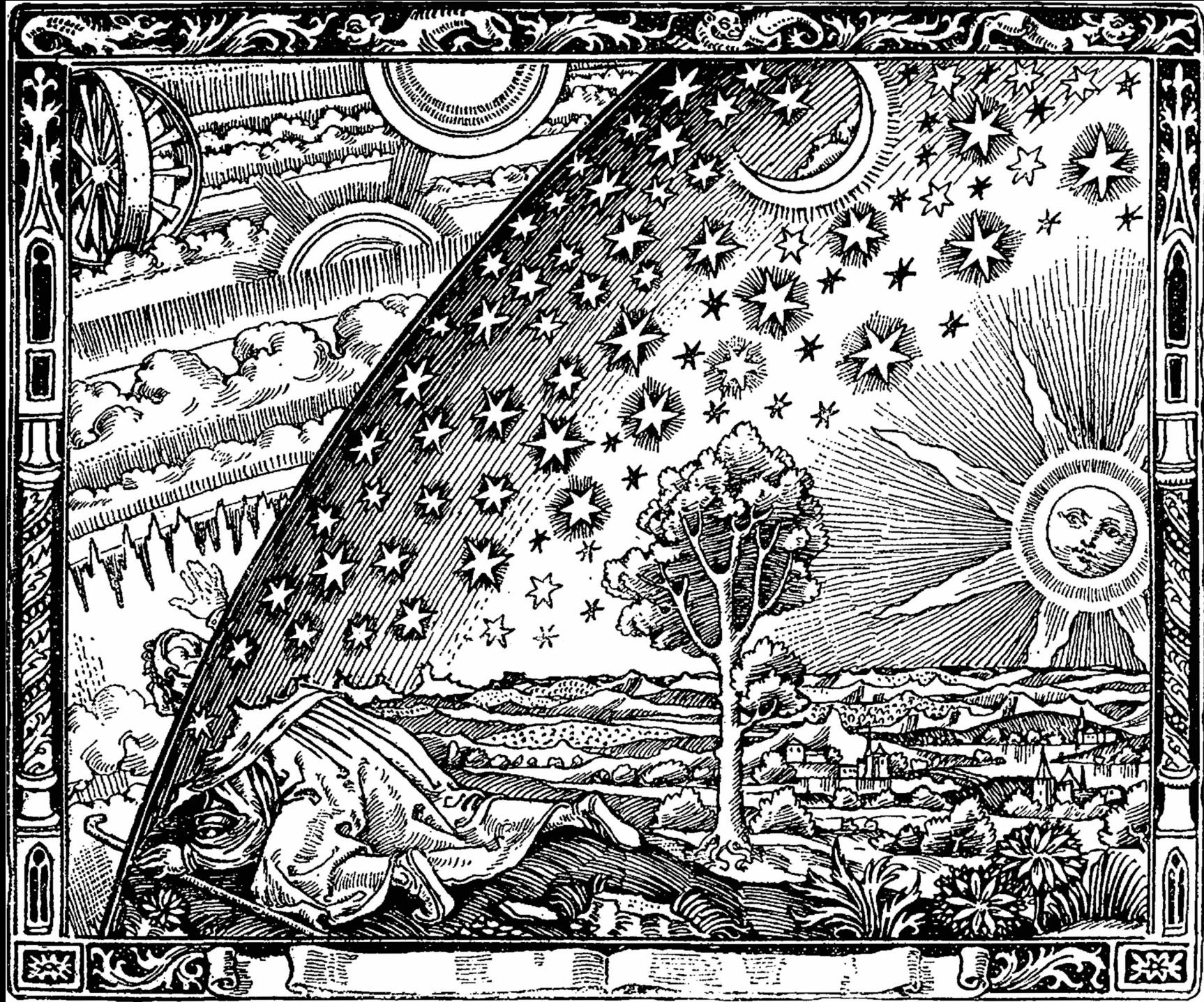
自胃七度至胃十度於辰在酉為大裸、隆也。宵之時曰震始降万物
於是墜成而隆大故曰大裸、趙之分也。







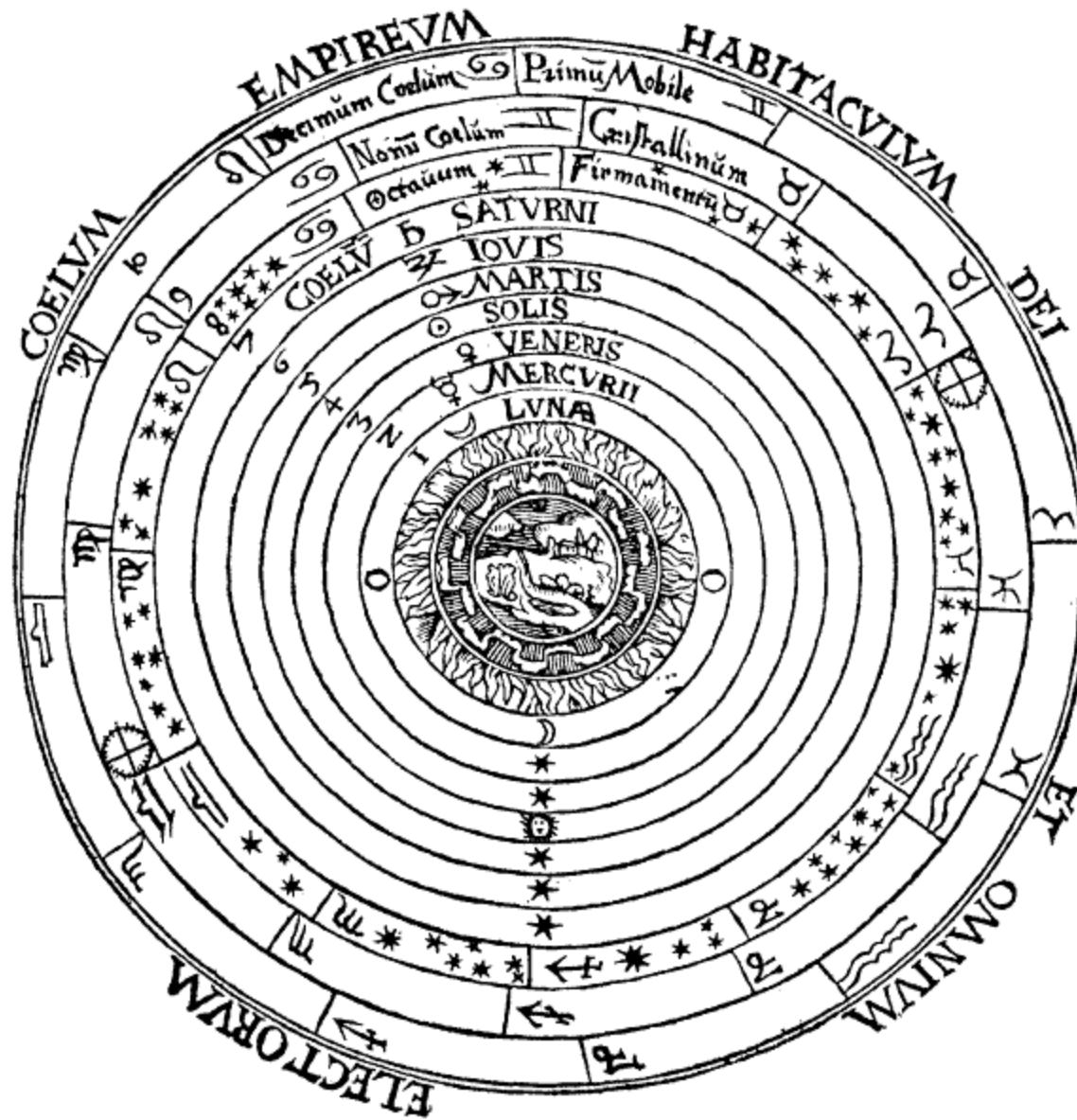
Frank Summers STScI





Letian Wang

Schema huius præmissæ diuisionis Sphærarum .



Peter Apian's *Cosmographia* (Antwerp, 1539)



Saturn in CNC & LEO 1-8-2005 - 1-9-2008

8-2005

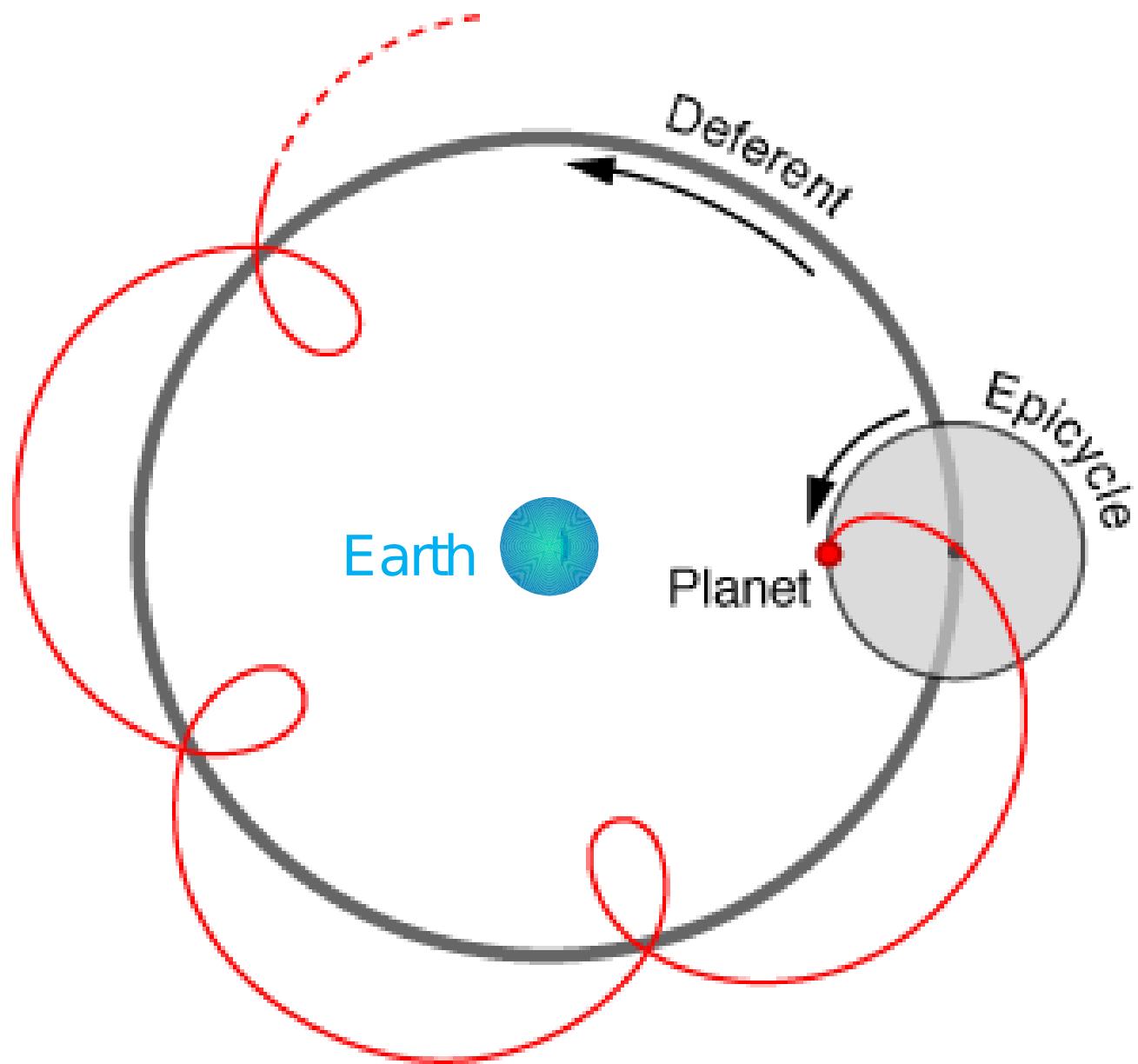
(c) Peter Wienerroither <http://homepage.univie.ac.at/~pww>

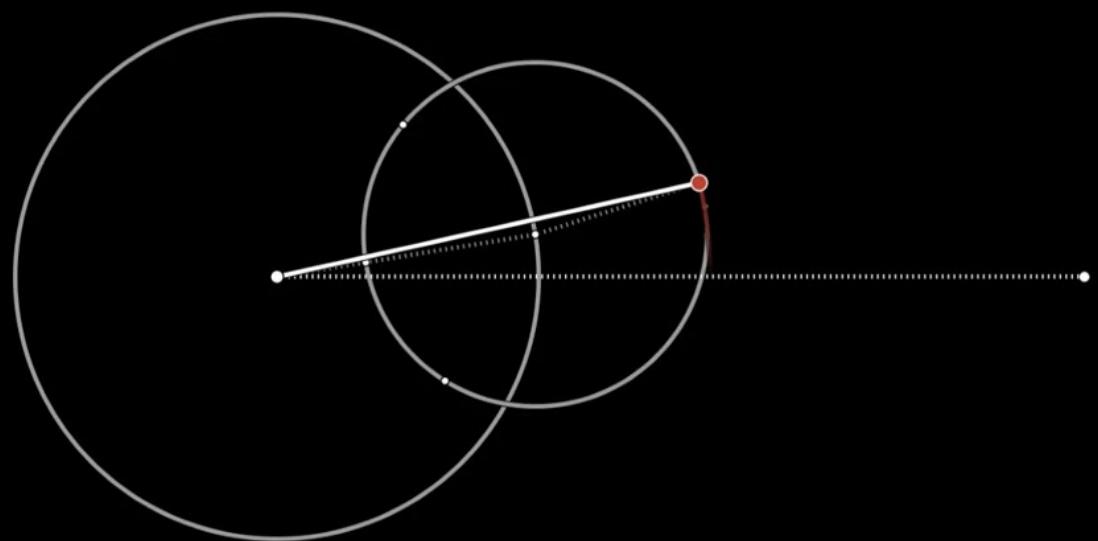
Peter Wienerroither

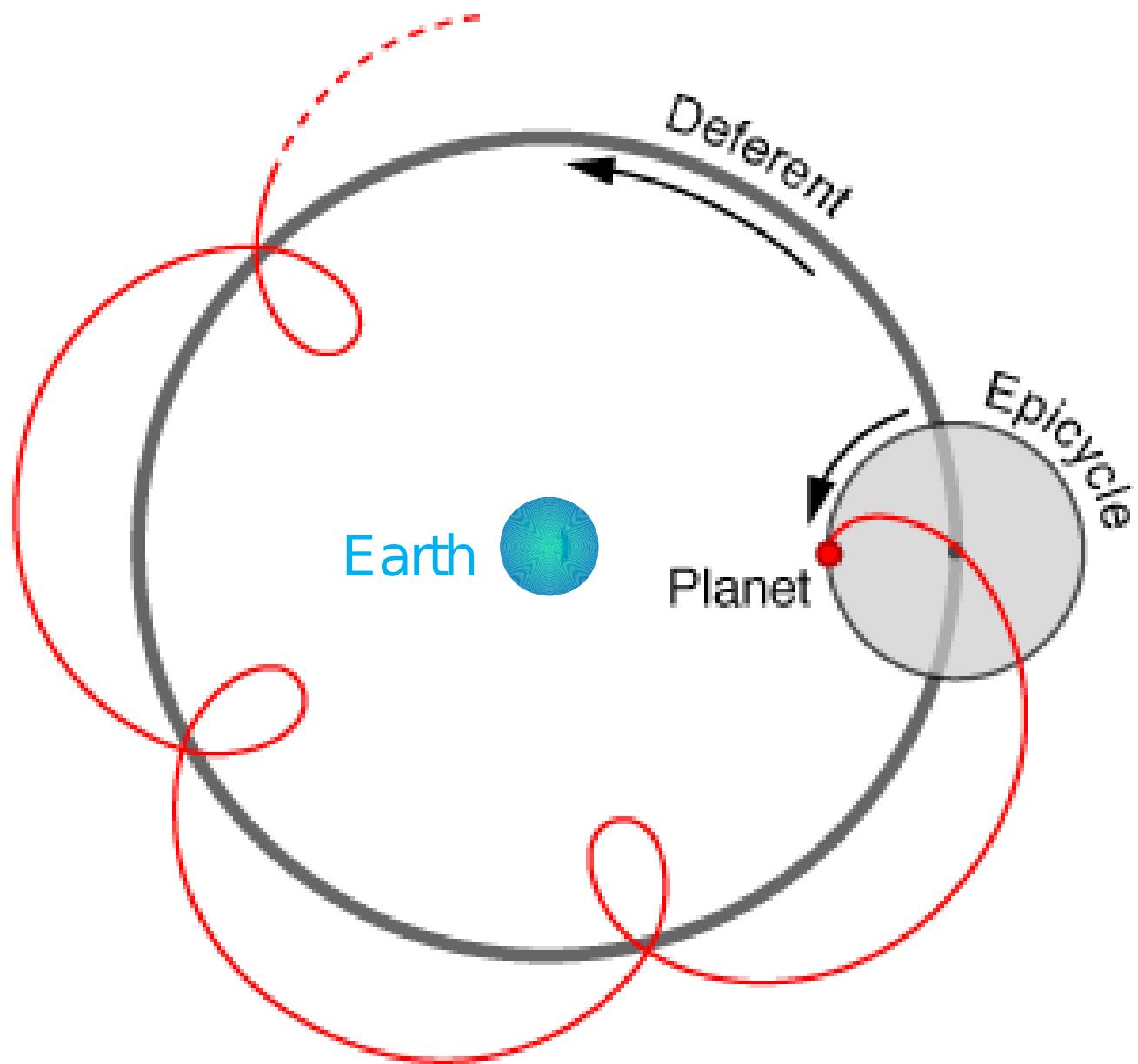


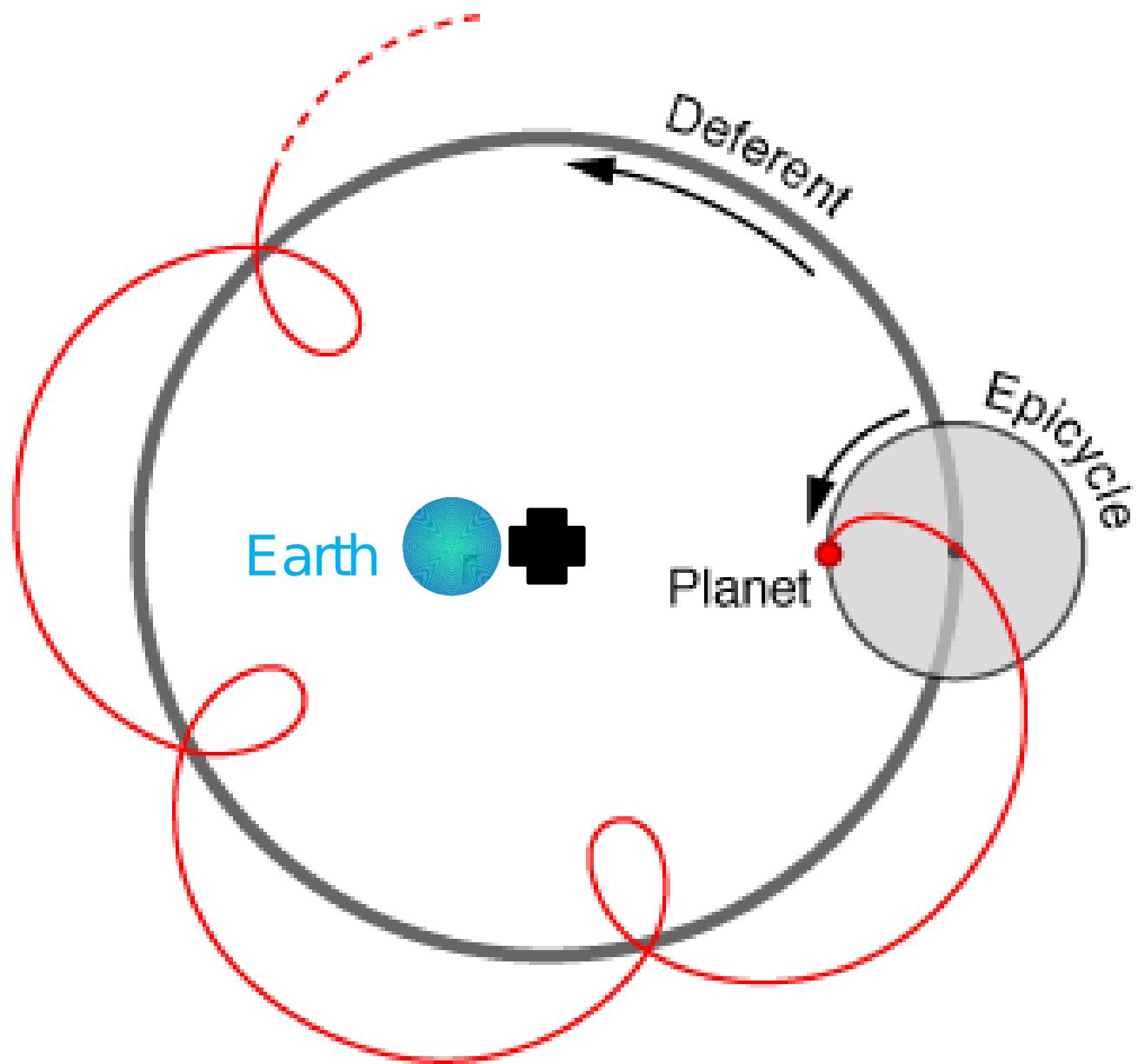
(C) 2011-2 Cenk E. Tezel
& Tunç Tezel

Cenk E. Tezel, Tunç Tezel



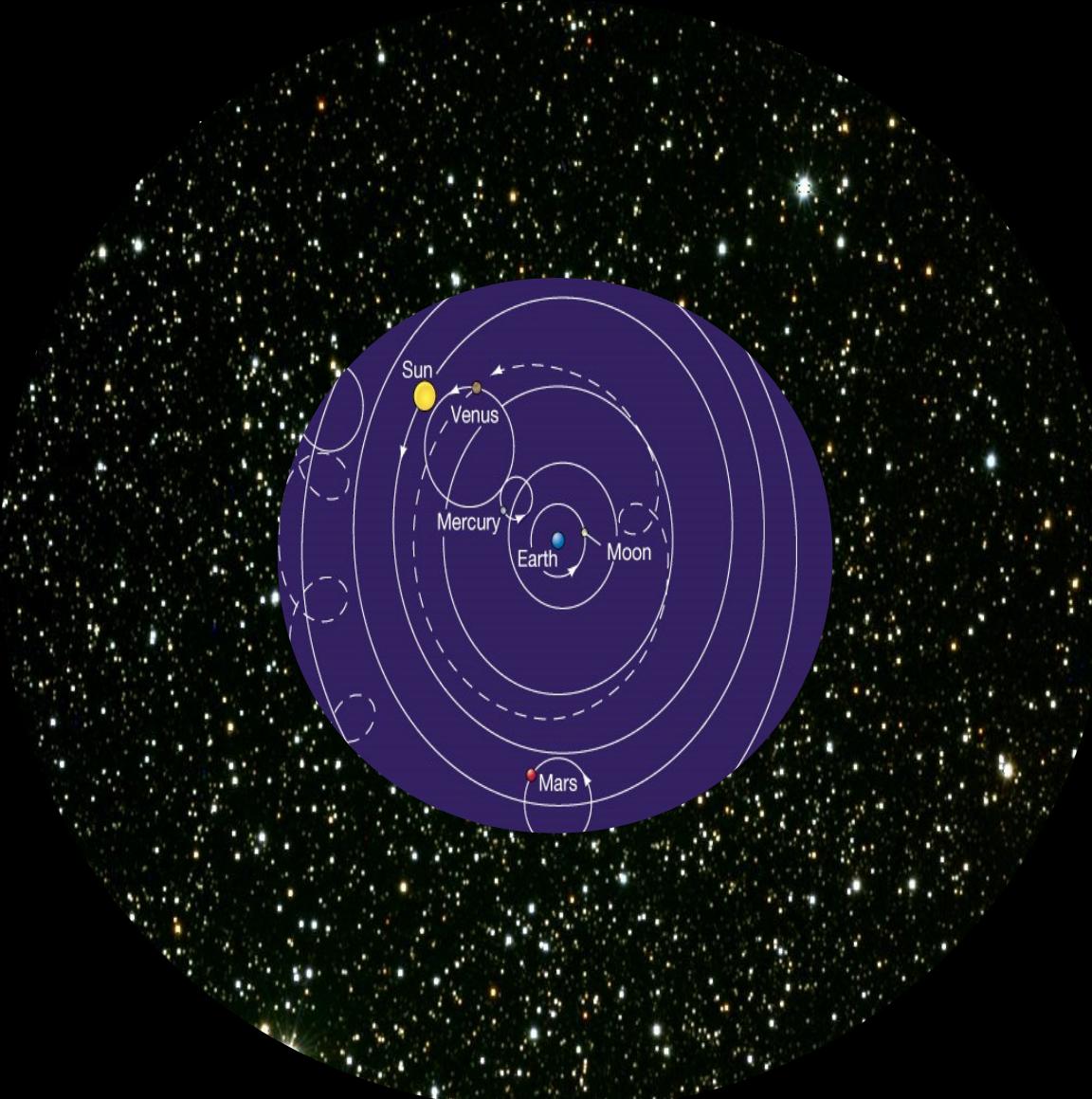


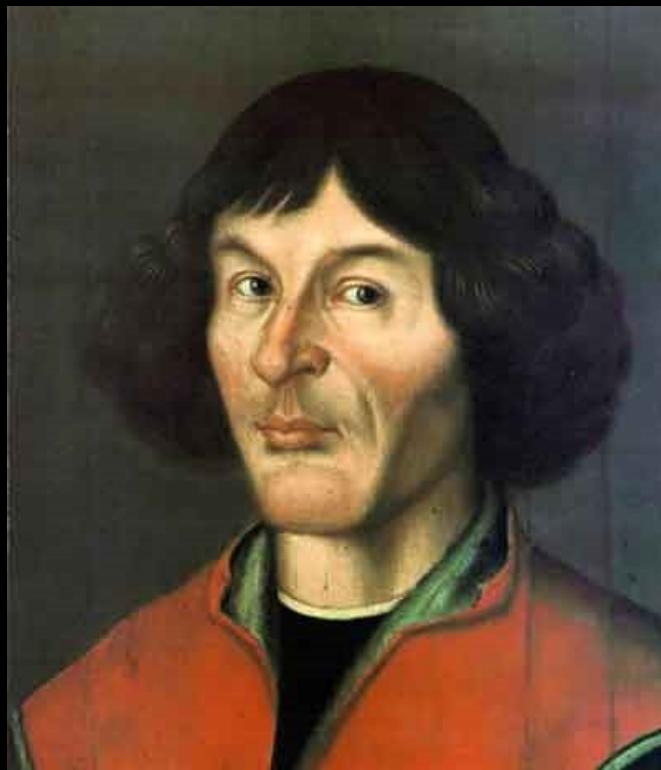




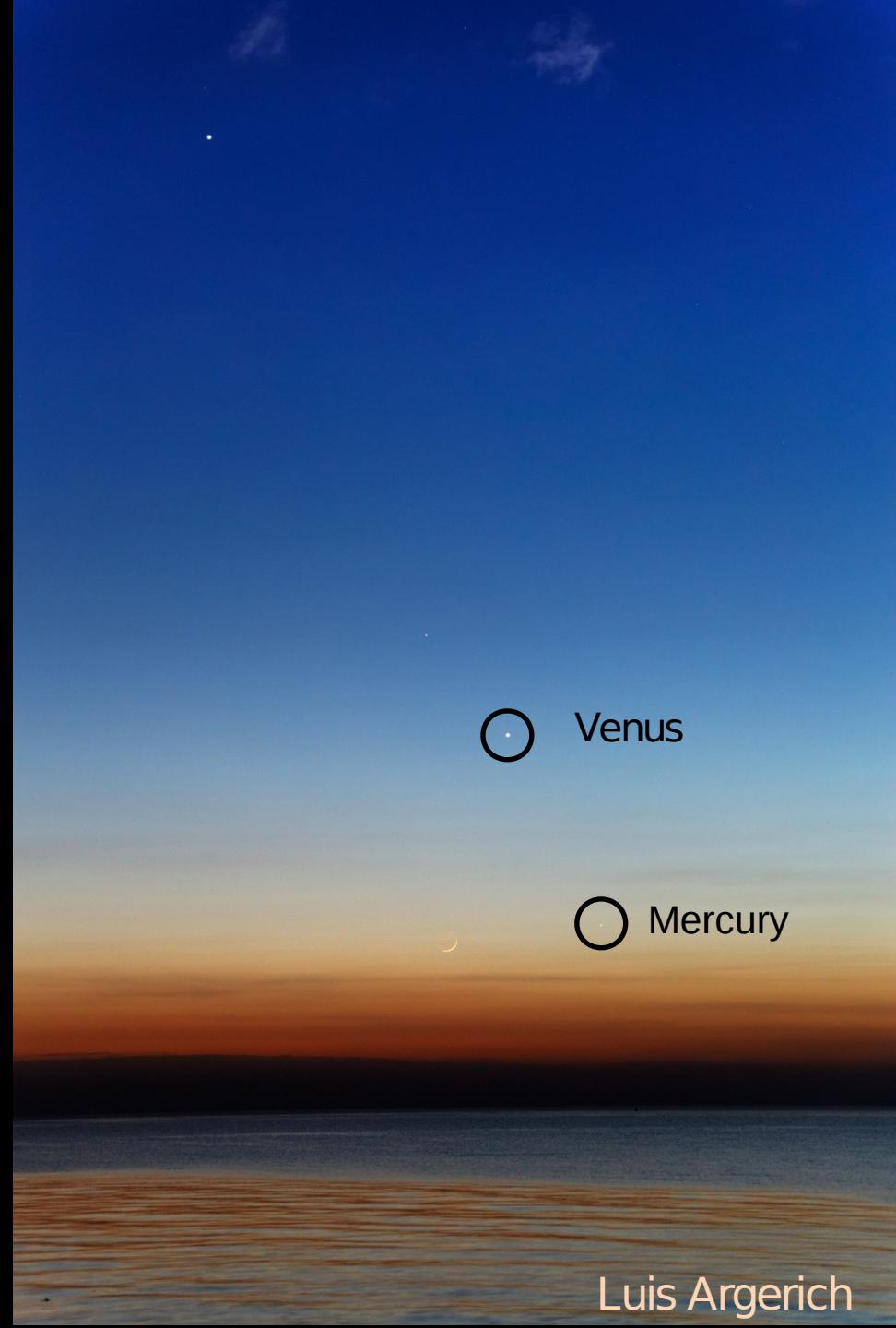


Claudius Ptolemy
(90-168)





Nicolaus
Copernicus
(1473-1543)



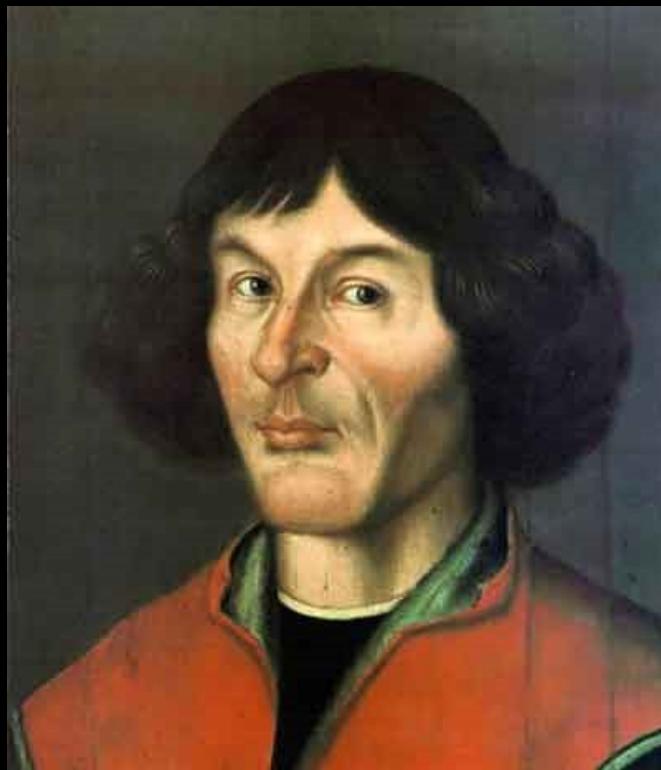
Luis Argerich



Venus-Mercury Conjunction (April 4th, 8th, 9th, 11th, 12th, 13th, 14th and 15th 2010)

Composite of 8 images taken between 4-15 April 2010 at 19:50 UT. The crescent Moon is from the USNO Apod Image

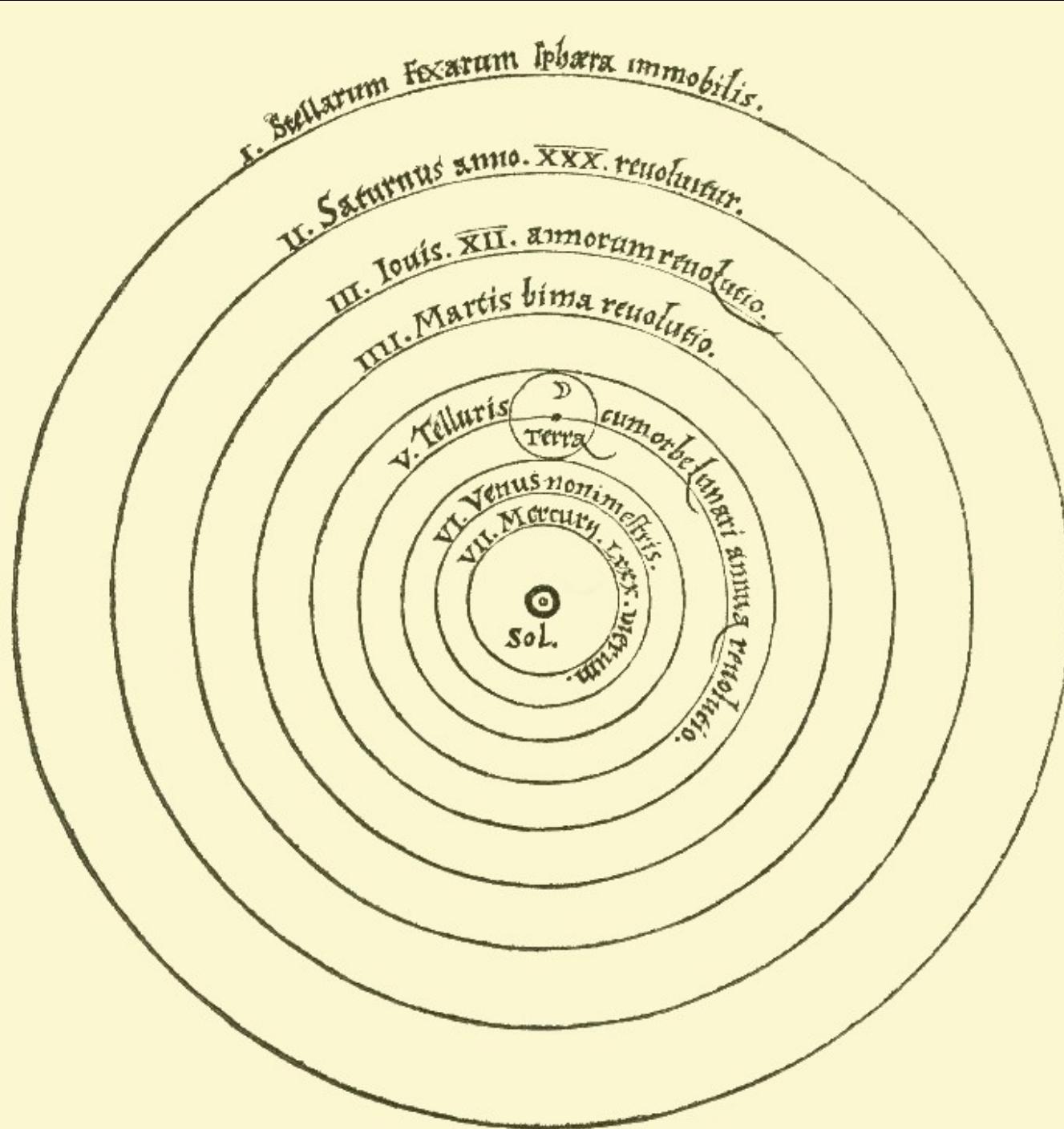
Peter Lawrence (Digital-Astronomy)
Peter Lawrence UK



Nicolaus
Copernicus
(1473-1543)



Luis Argerich



I. Stellarum Fixarum Sphæra immobilis.

II. Saturnus anno. XXX. revolutio.

III. Iouis. XII. amorum revolutio.

III. Martis bima revolutio.

V. Telluris

Terra

cum orbis lunari summa revolutio.

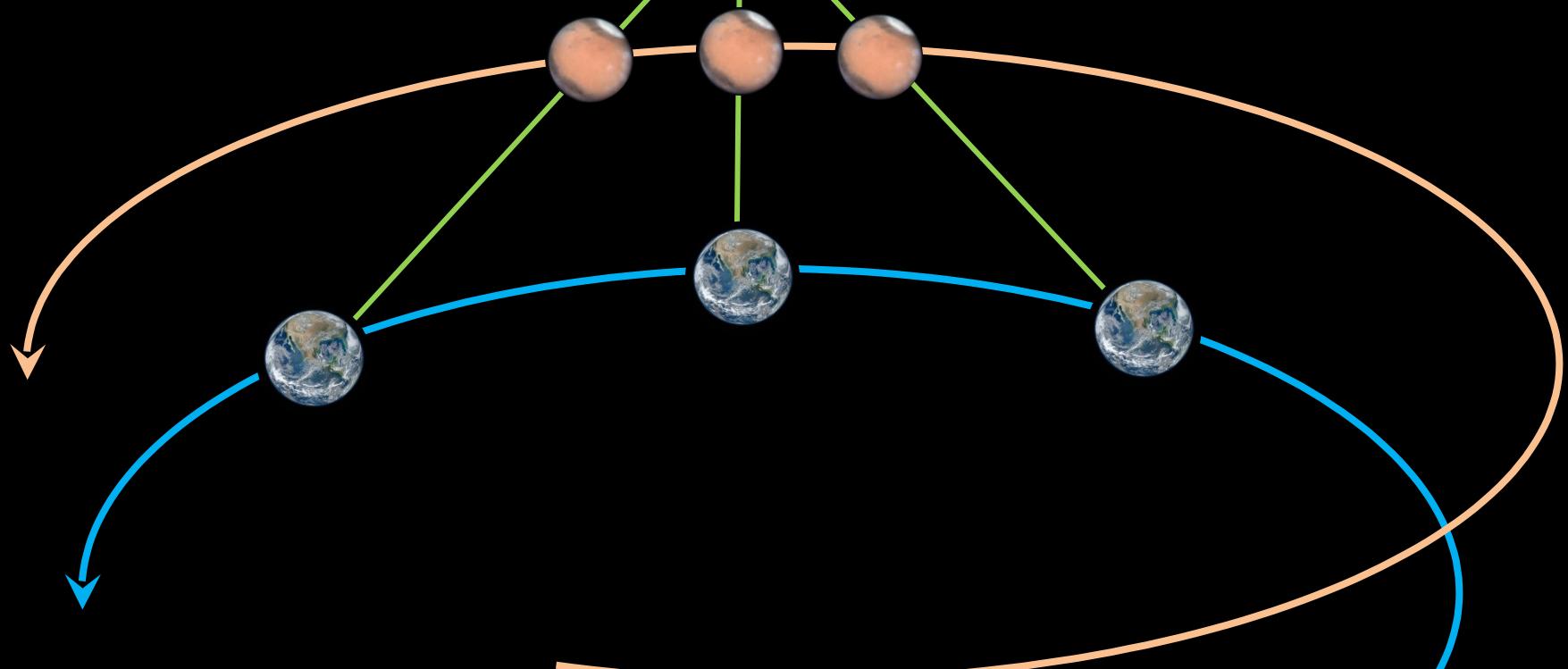
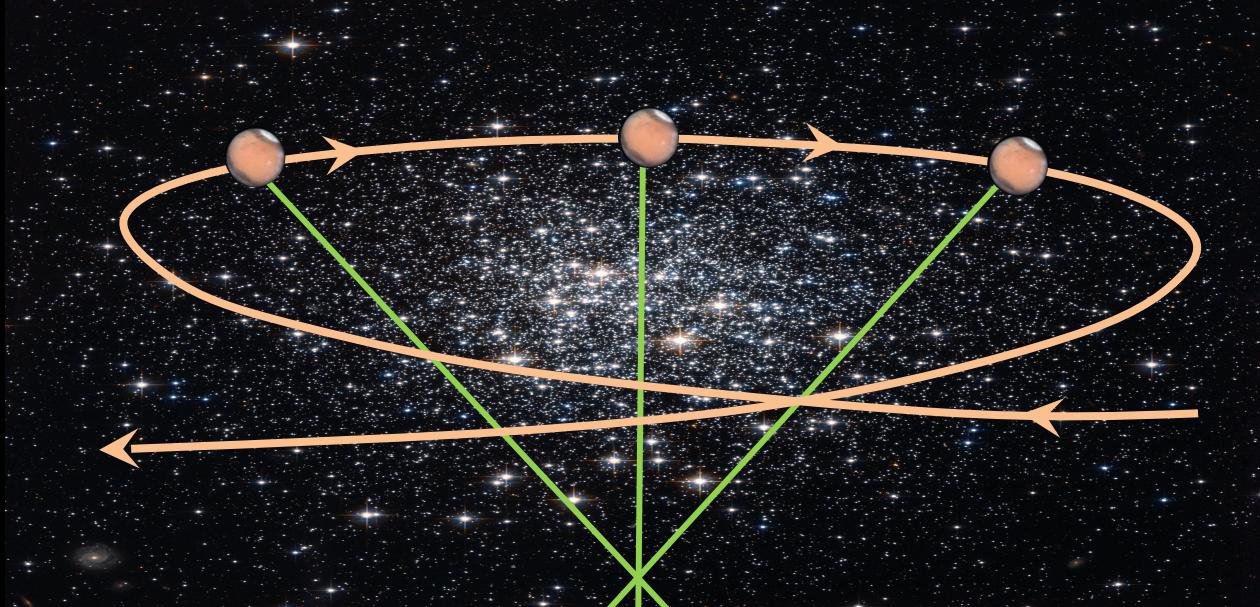
VI. Venus nonimelaris.

LXX. unerum.

Sol.

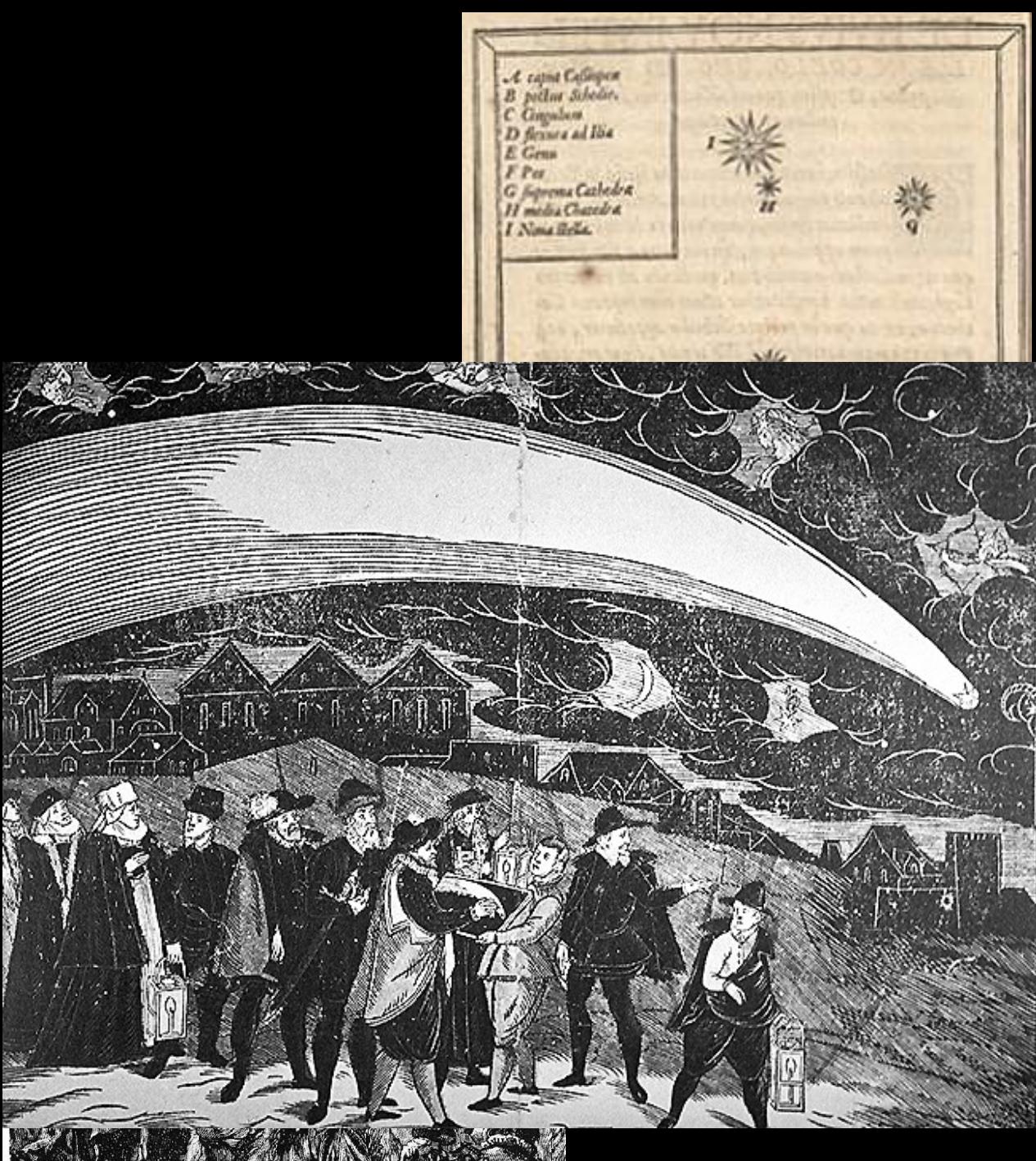
Mercury.

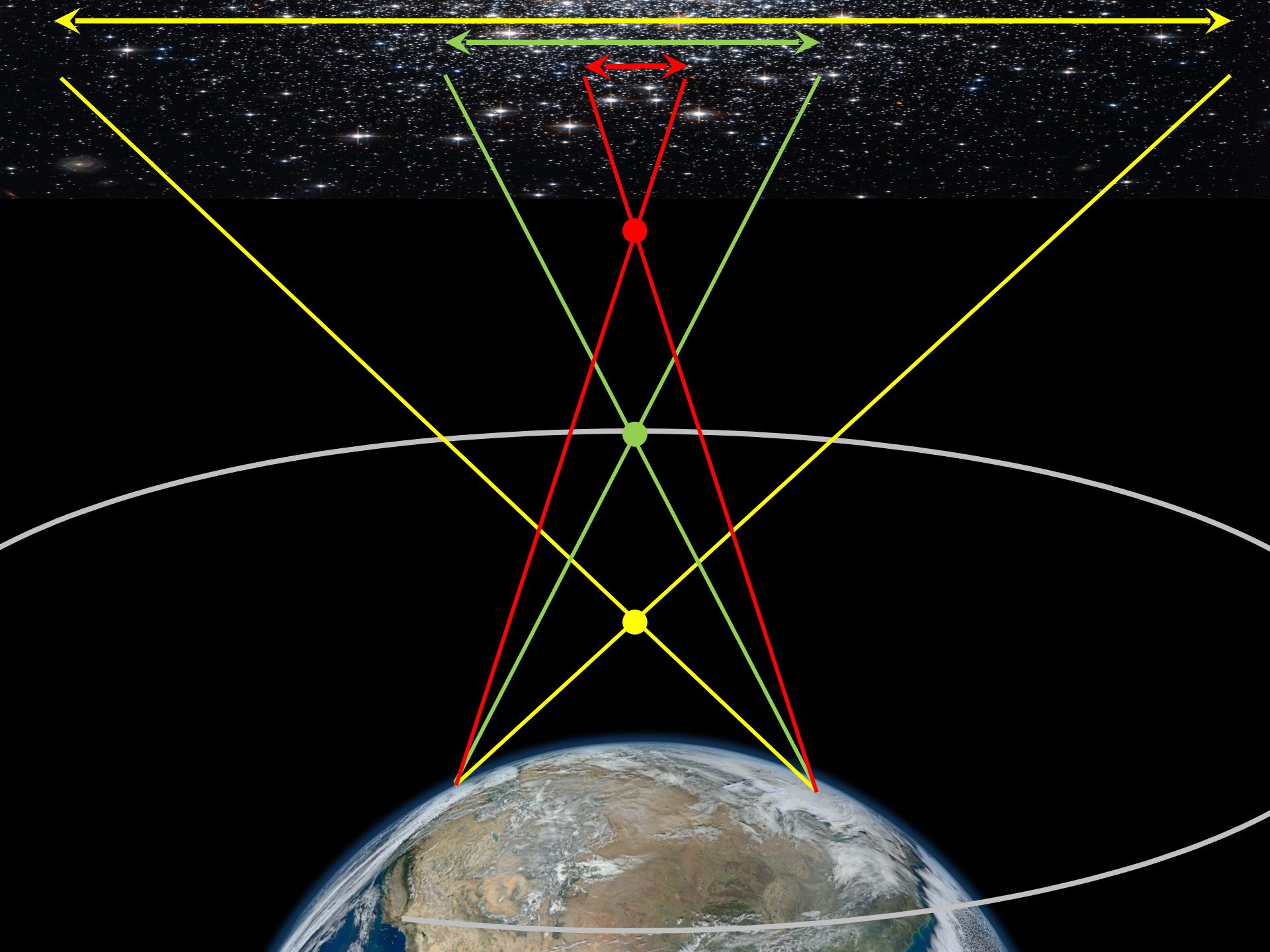
Iunonum revolutio.

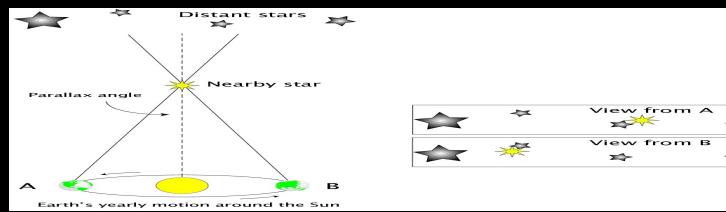
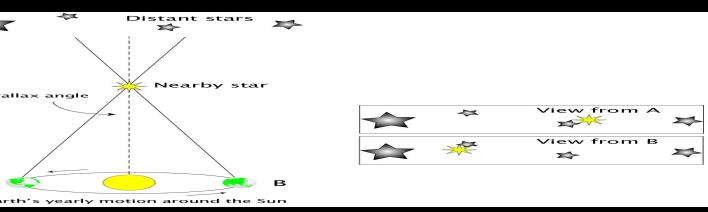
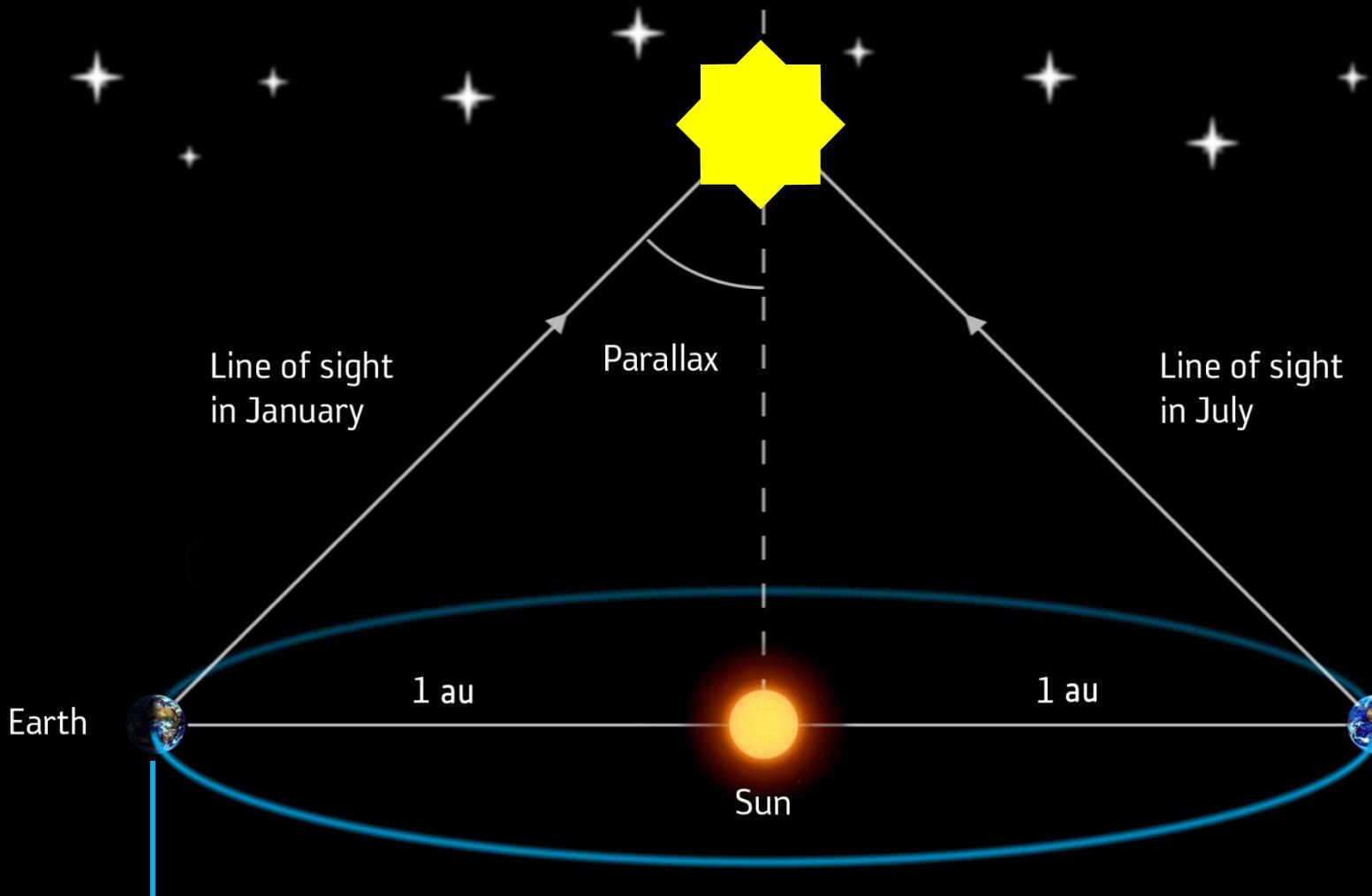
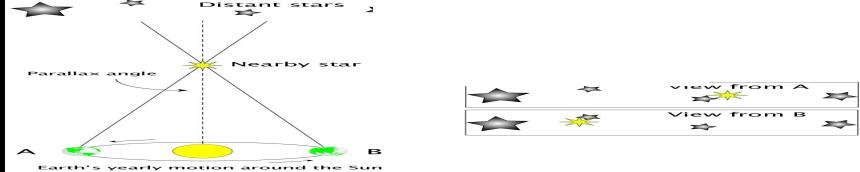




Tycho Brahe
(1546-1601)





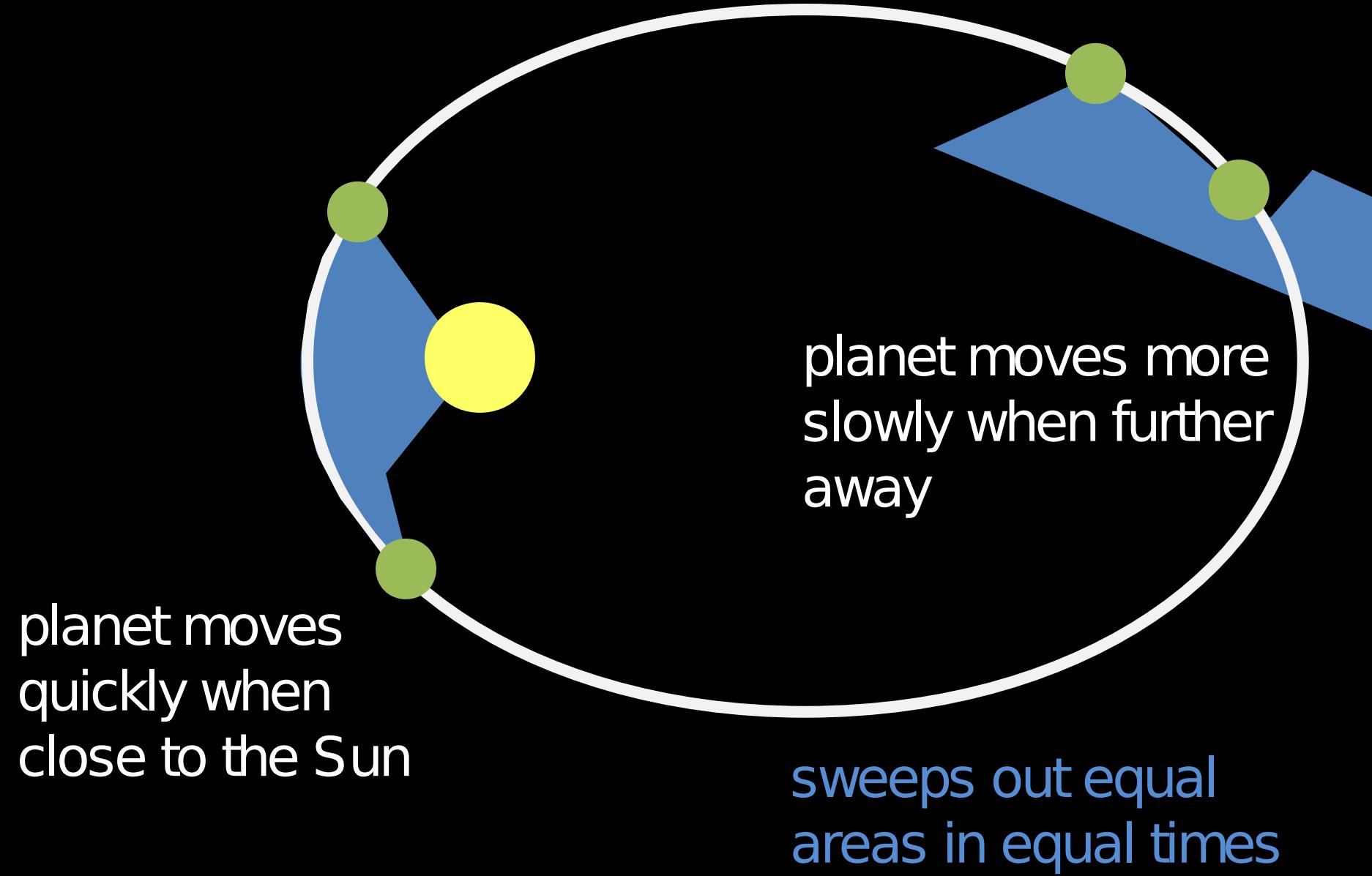




Johannes Kepler's Uphill Battle



Johannes Kepler
(1571-1630)



Observations Terrestres
1610

2. Sept.
mars H. 12

○ **

30. mars

** ○ *

2. Avril.

○ ** *

3. Avril

○ * *

3. Mai.

* ○ **

4. mai

* ○ **

6. mai

** ○ *

8. mai H. 13.

*** ○

10. mai

* * * ○ *

11.

* * ○ *

12. H. 4 juillet

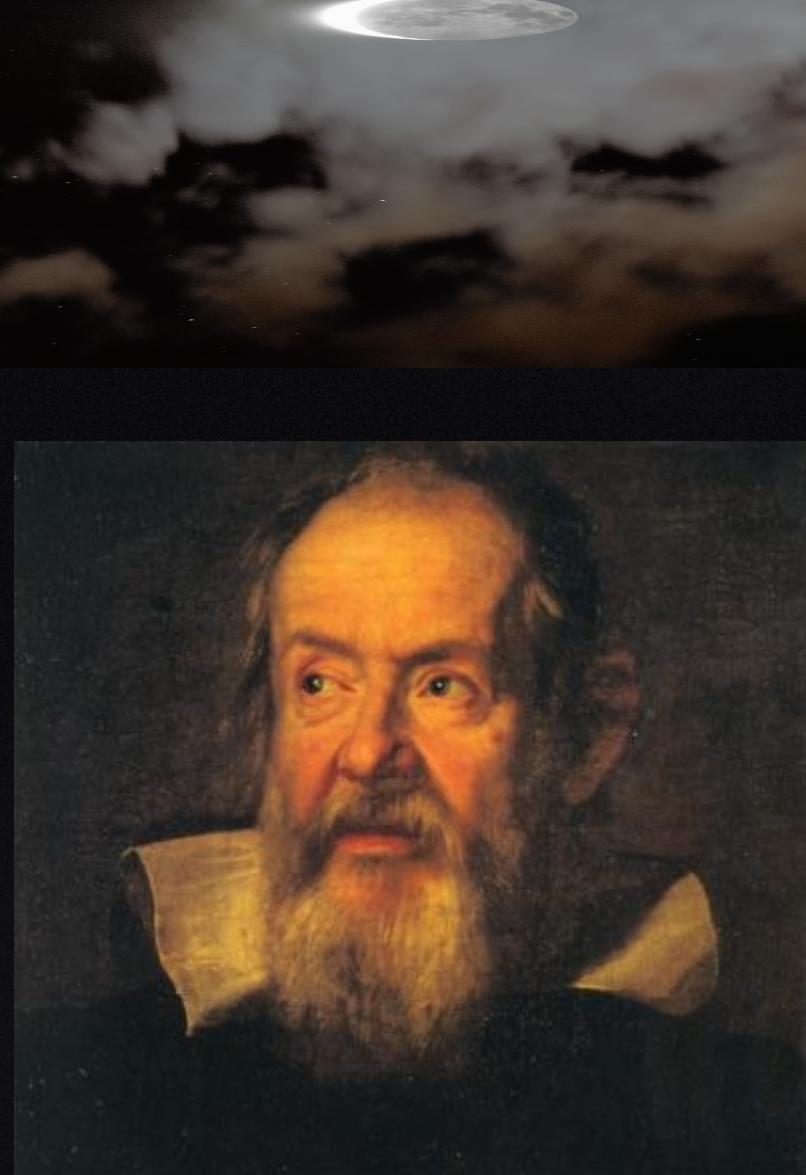
* ○ *

13. juillet

* ** ○ *

14. juillet

* + + ○ *



Galileo Galilei
(1564-1642)



Chicago Museum of Science and Industry

Celestial sphere

North pole

North

celestial pole

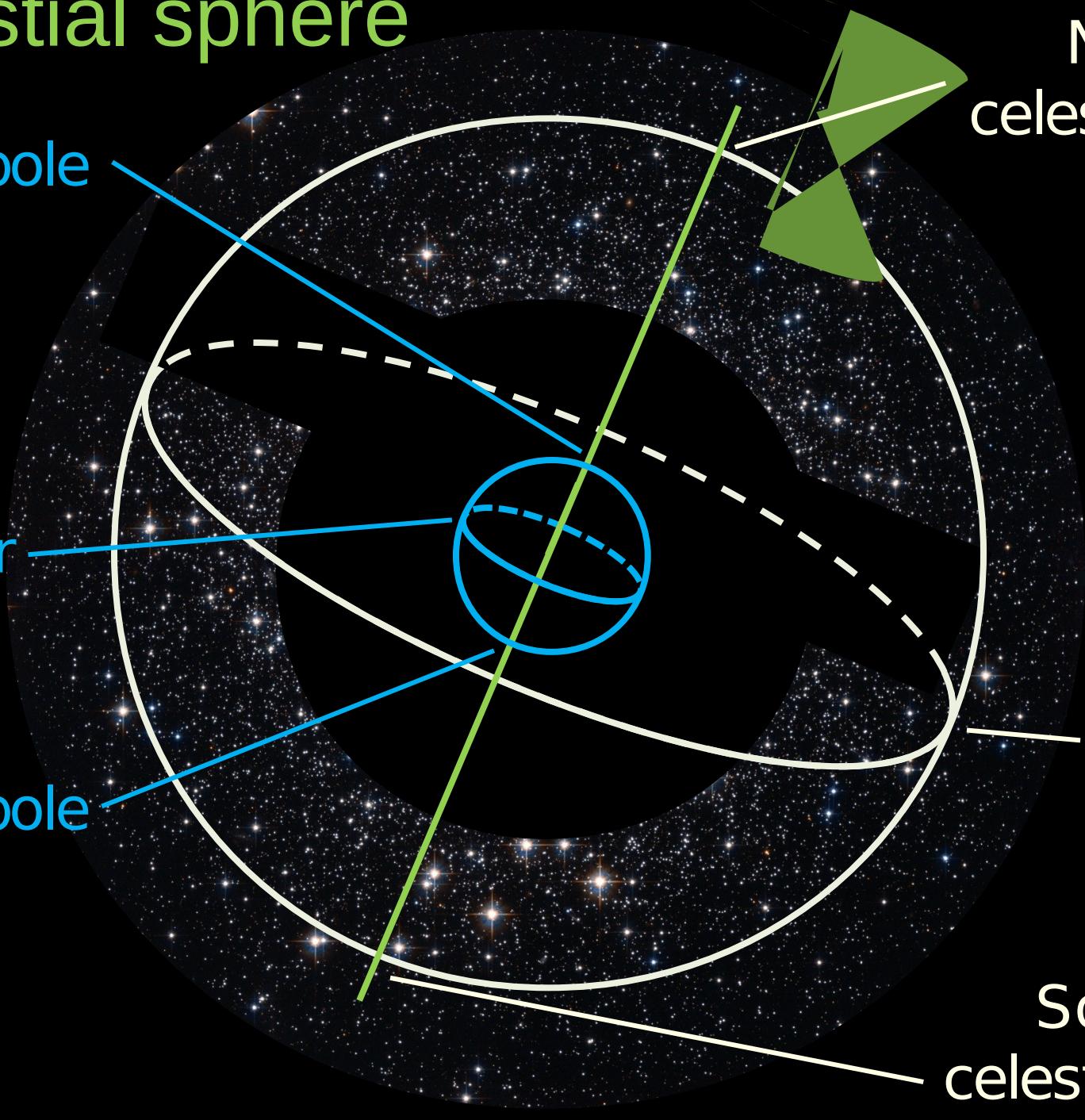
equator

South pole

celestial
equator

South

celestial pole





P-M Hedén





© KWON, O CHUL

Kwon O Chul



Koen van Gorp

Celestial sphere

North pole

North

celestial pole

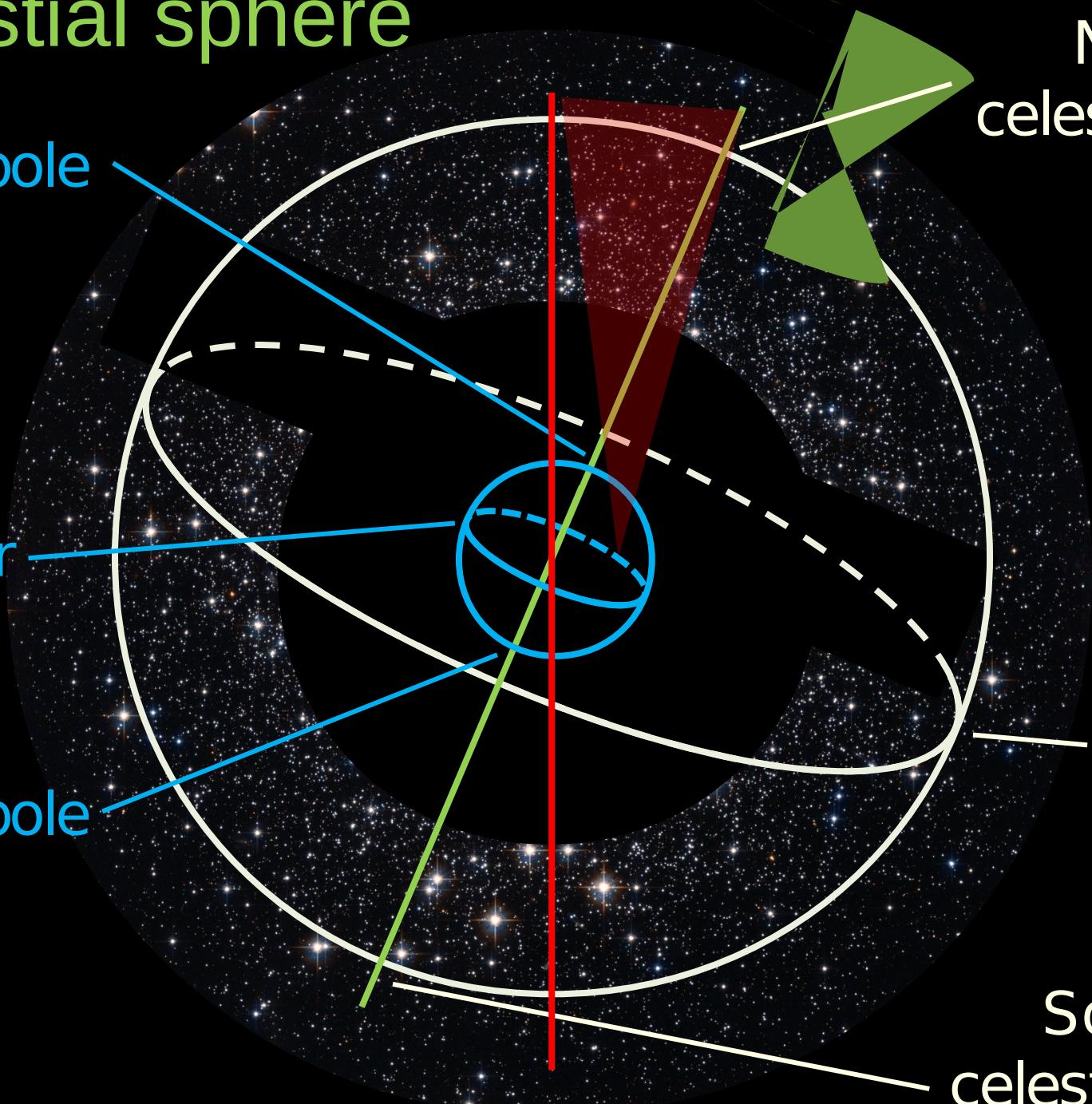
equator

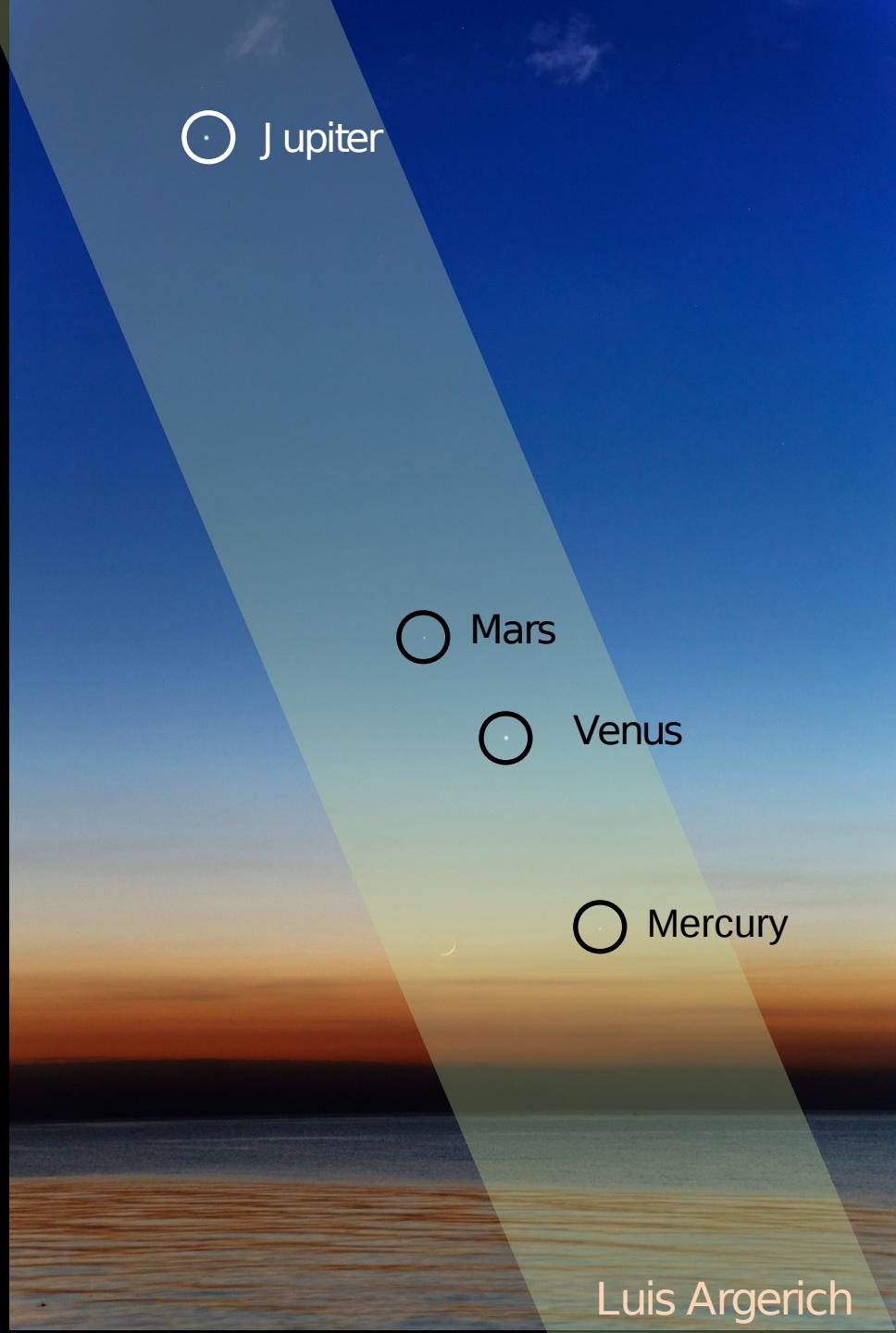
celestial
equator

South pole

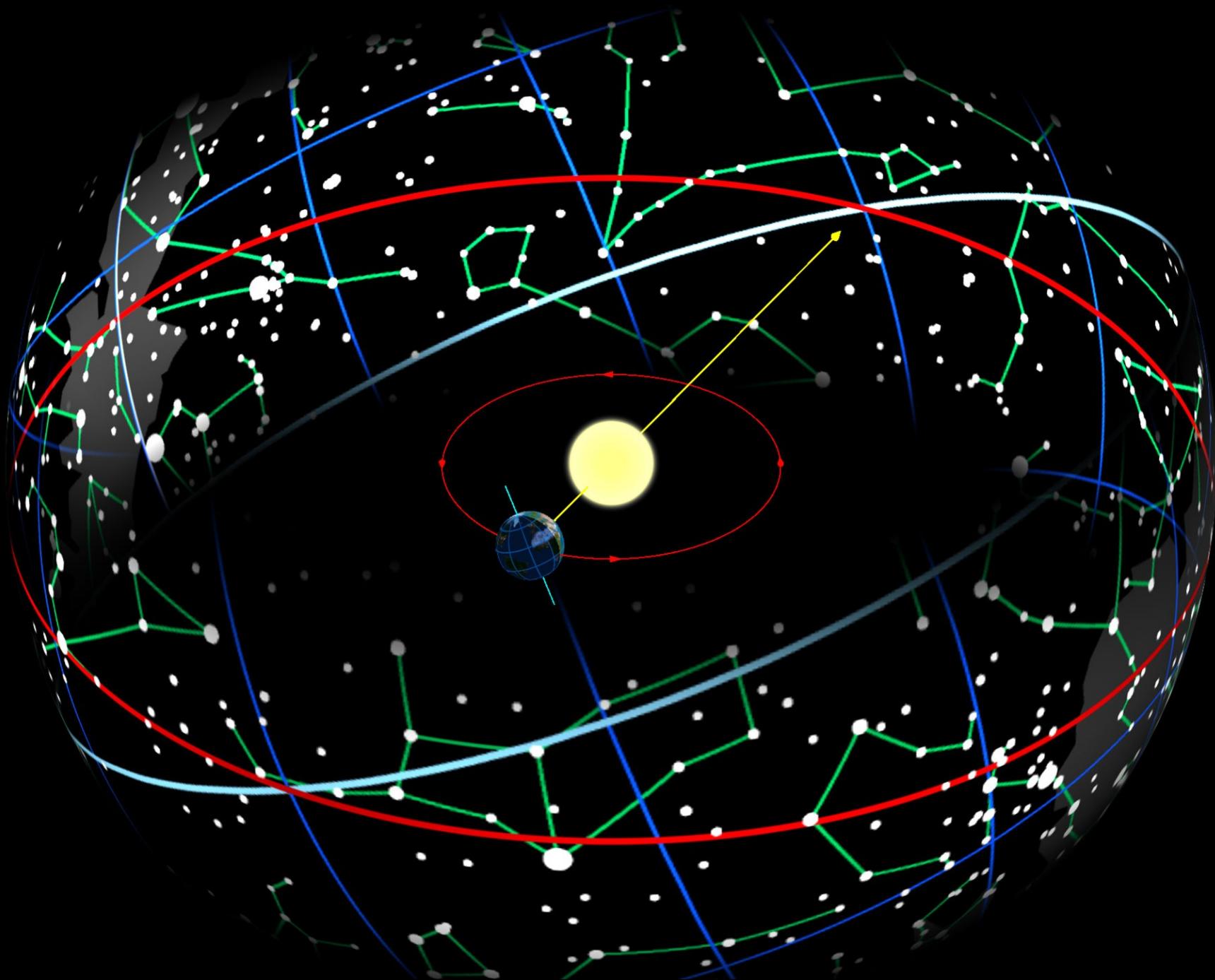
South

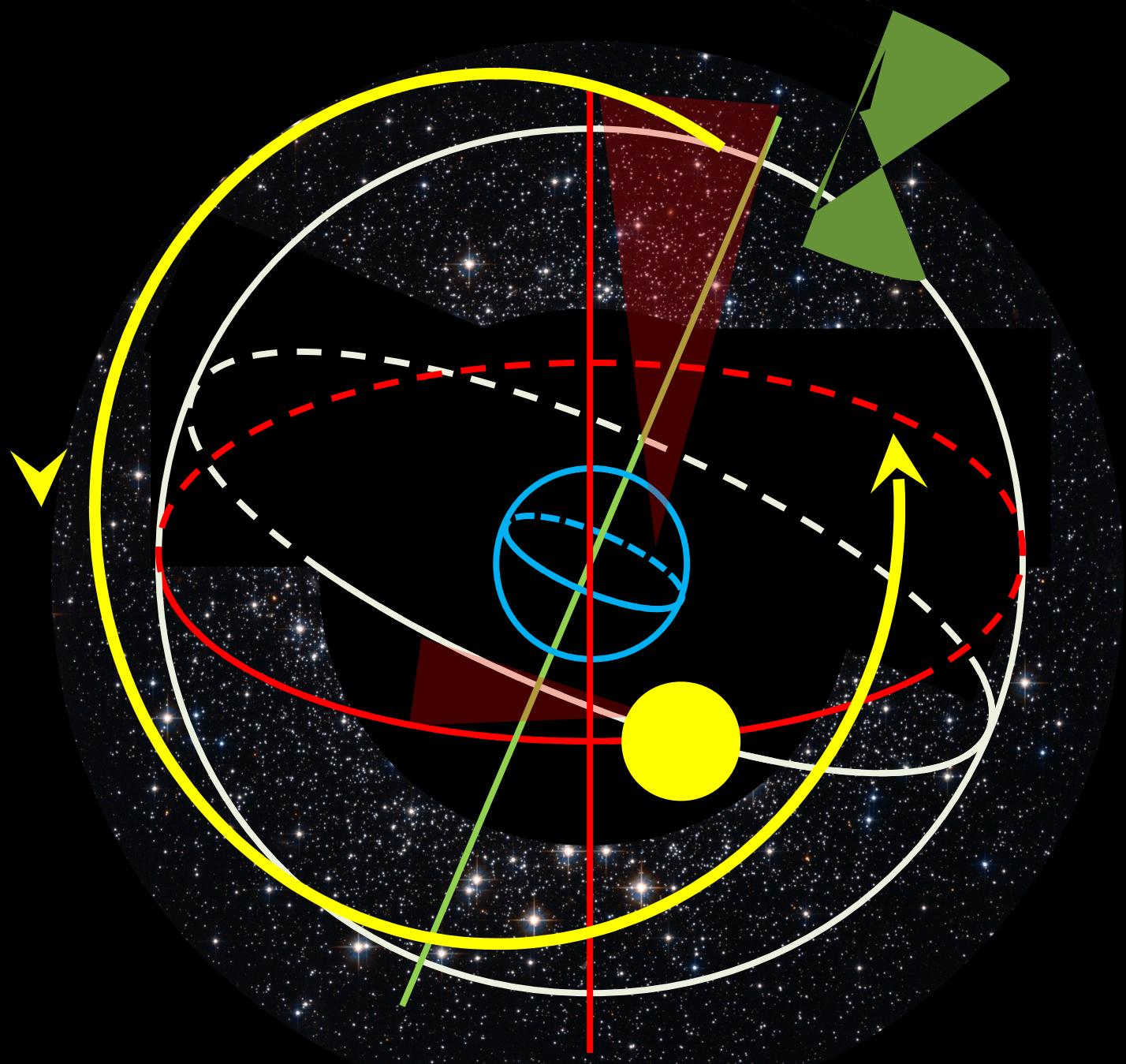
celestial pole

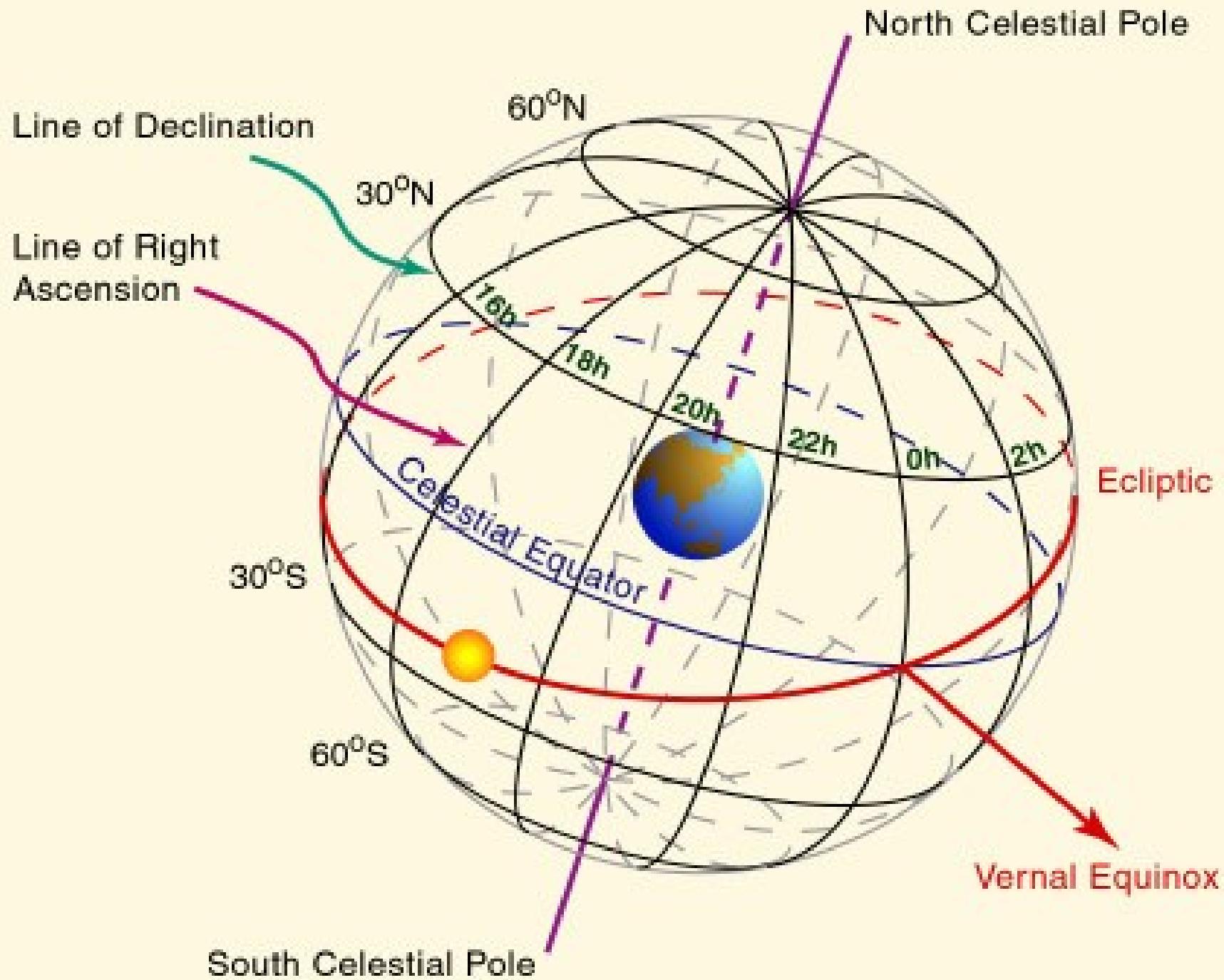


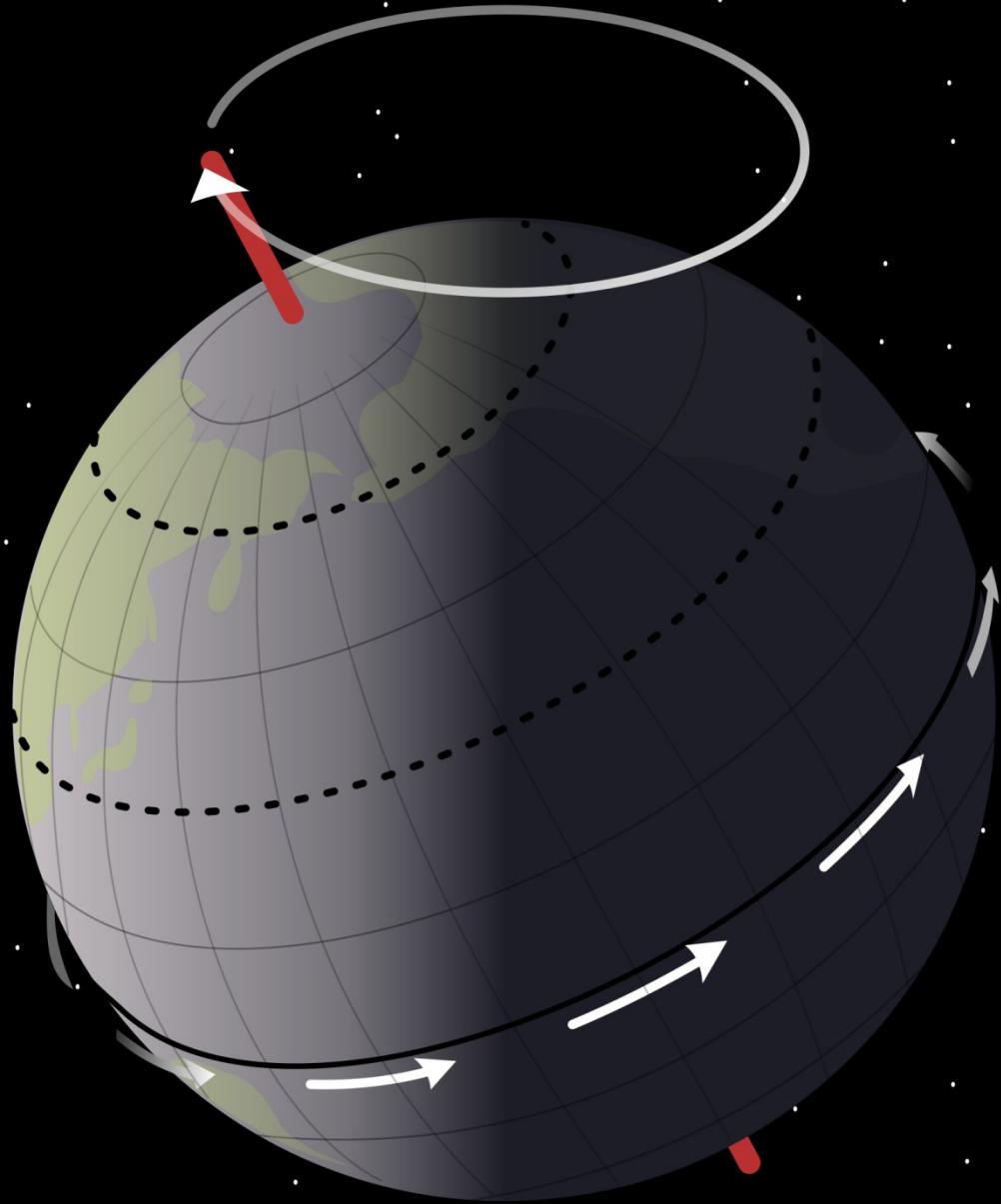


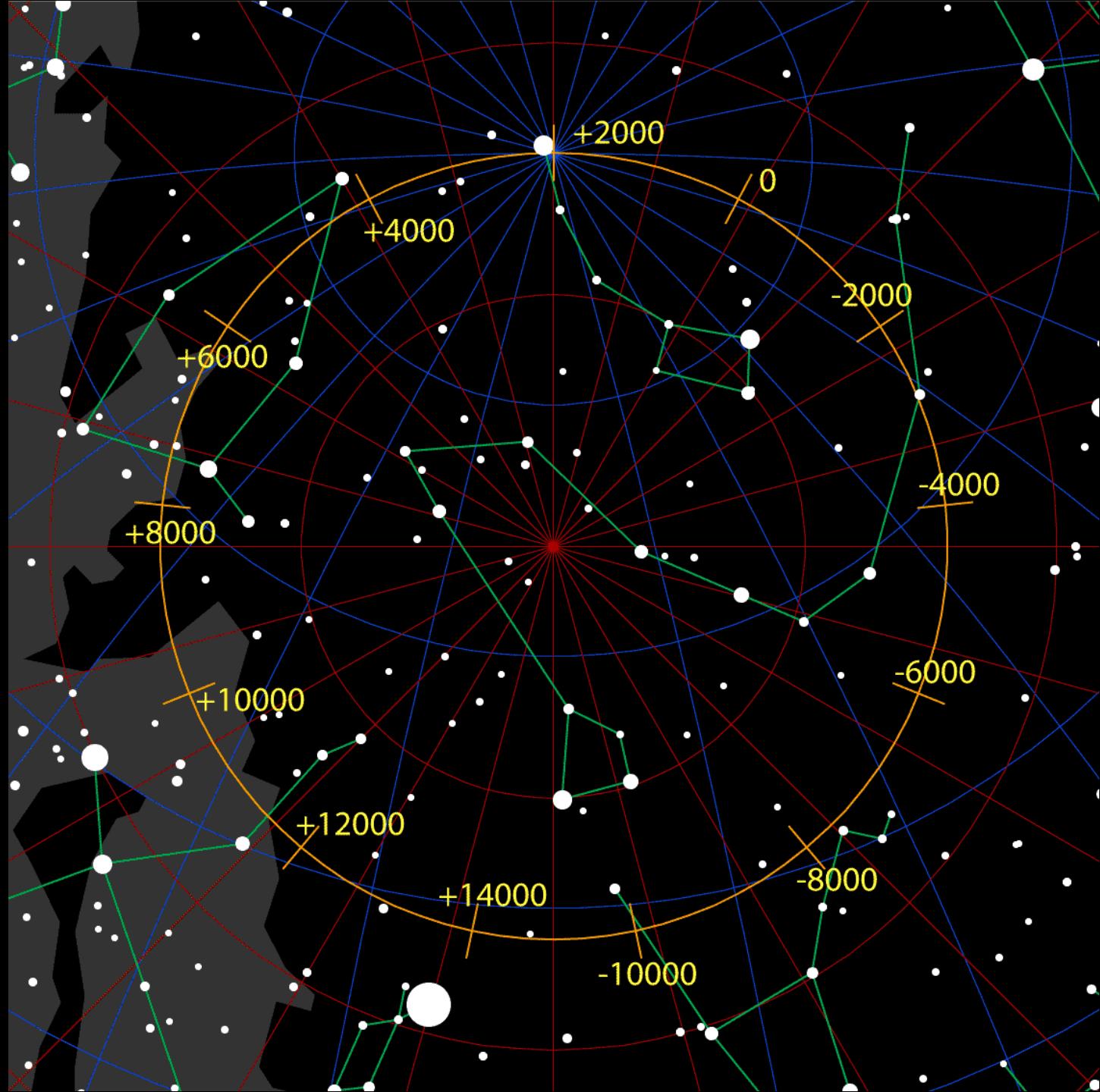
Luis Argerich

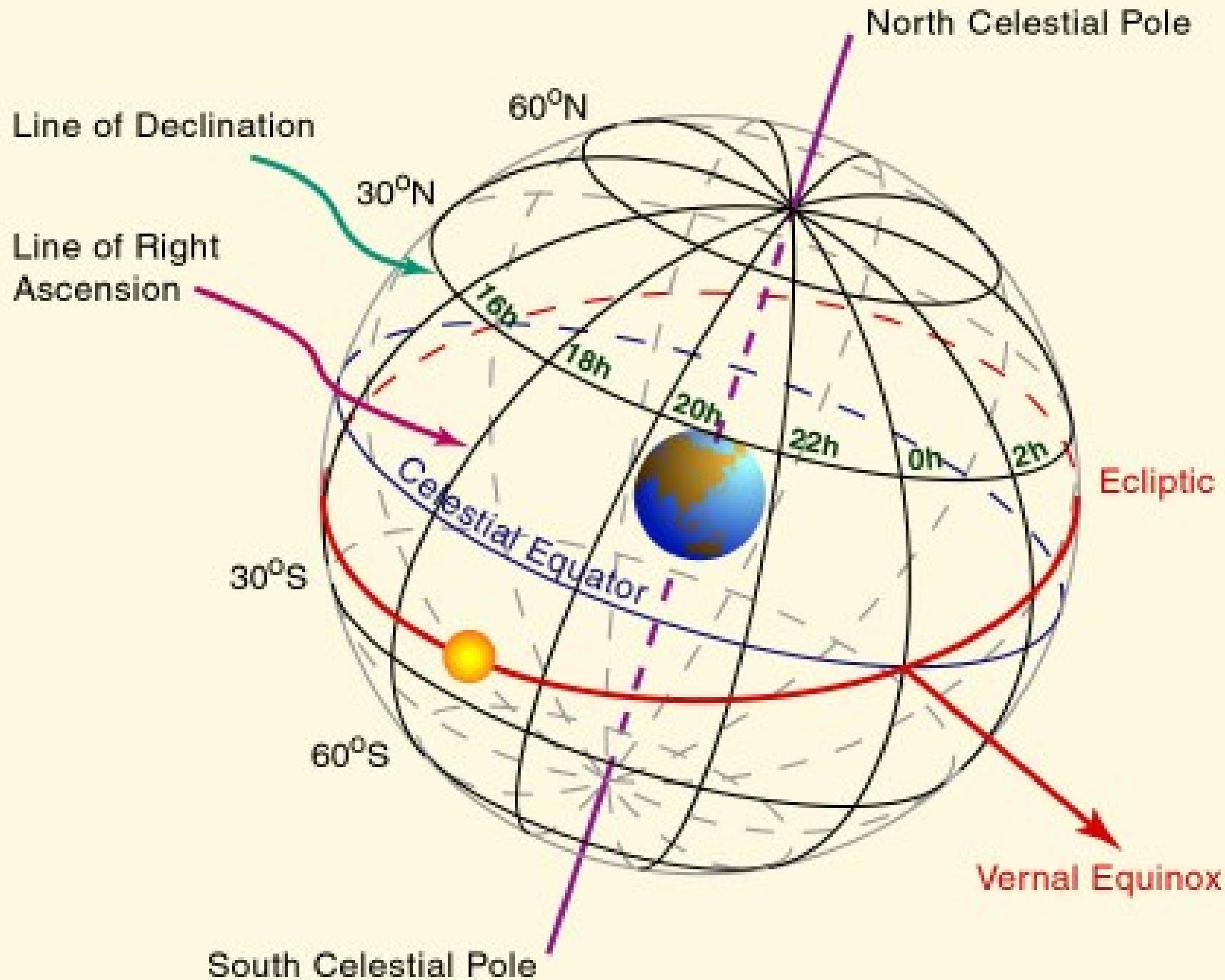


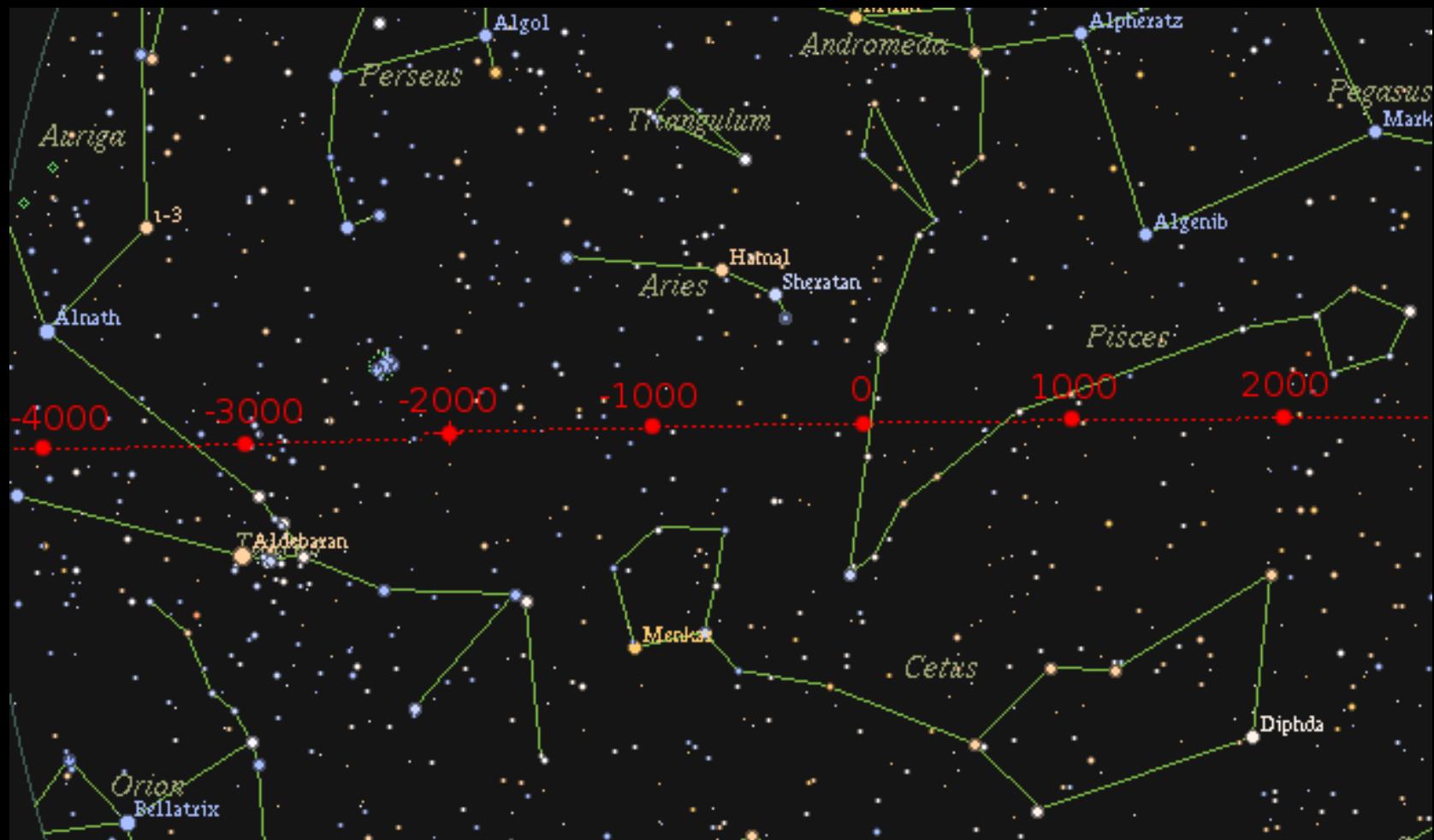


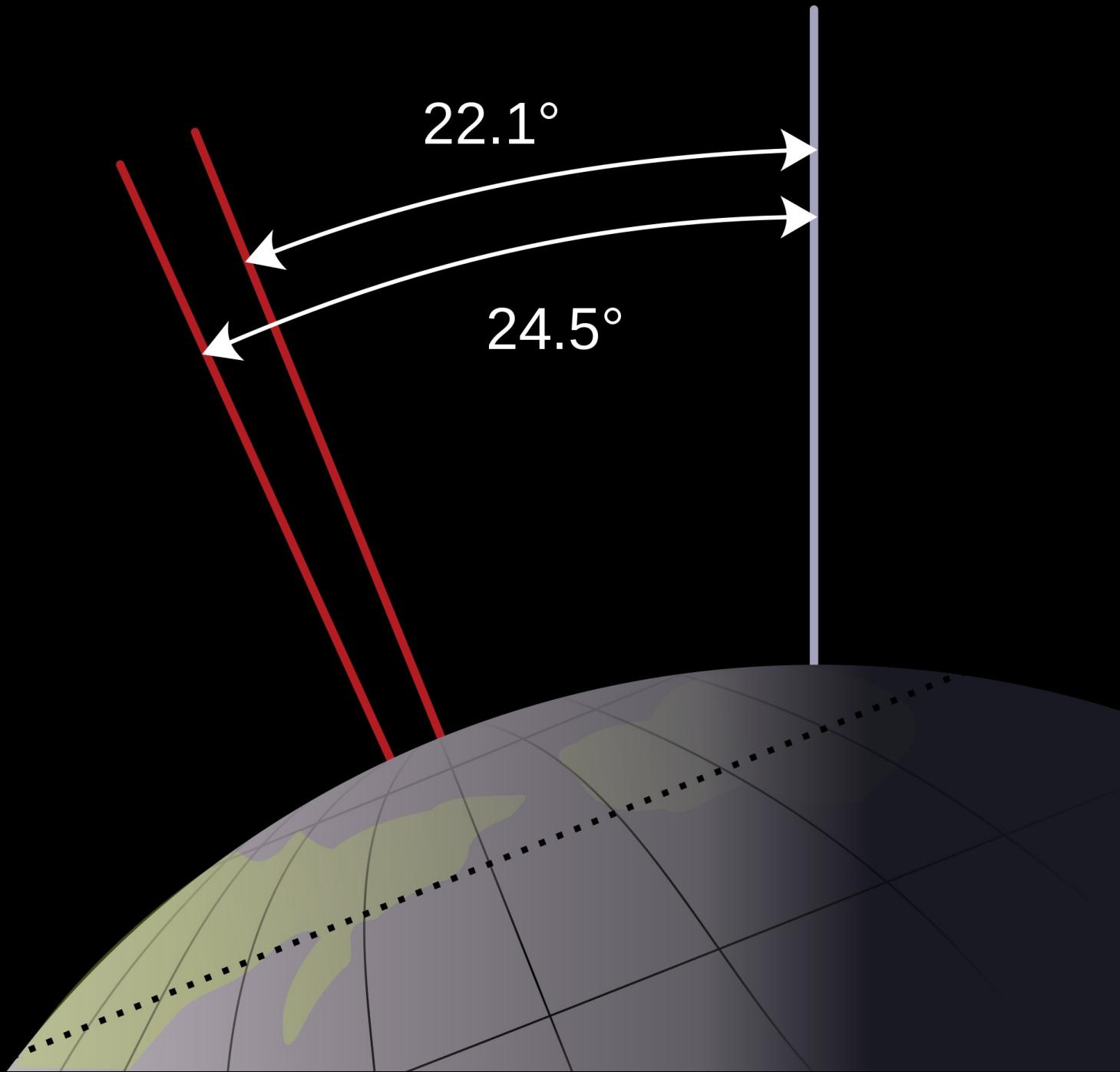




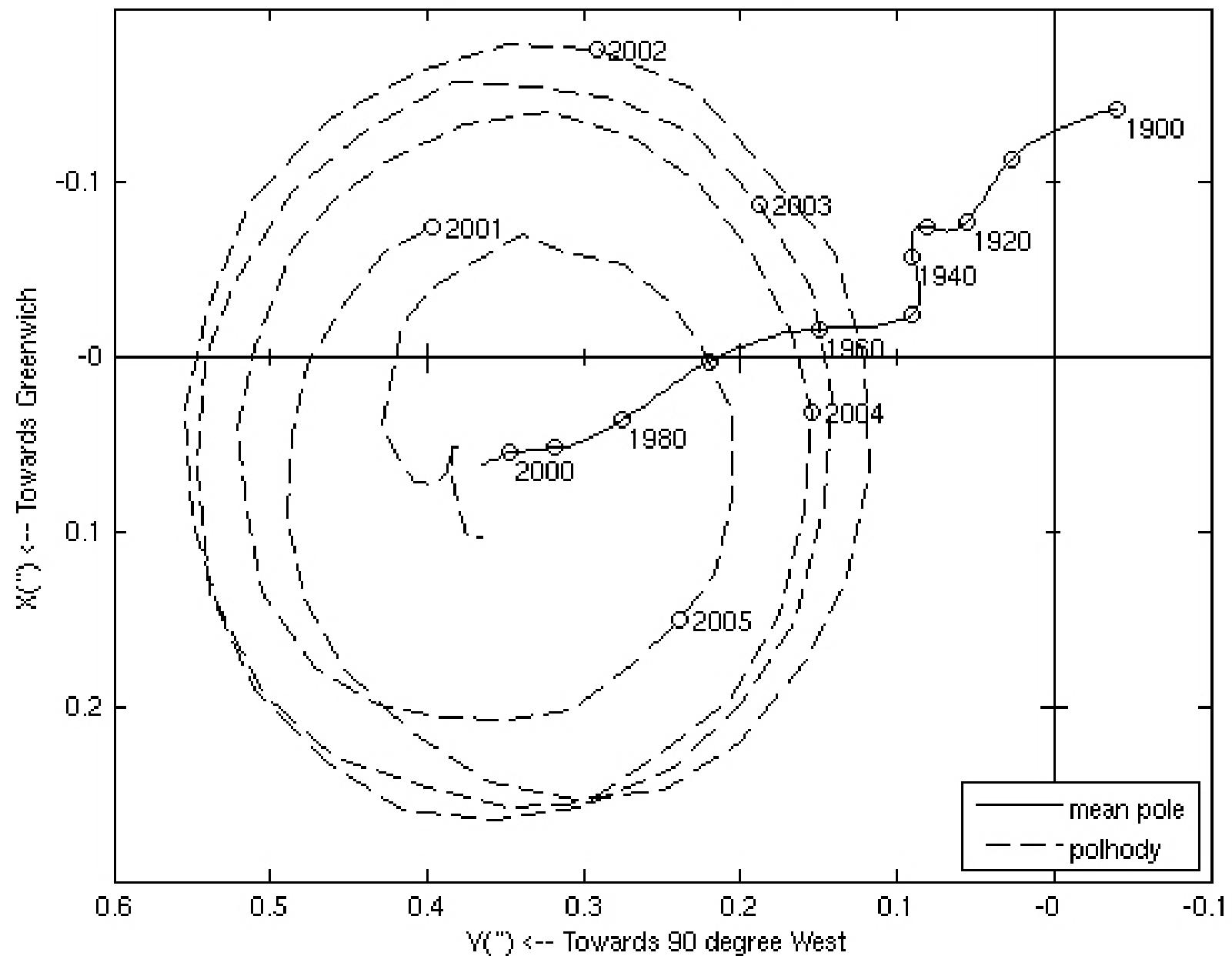


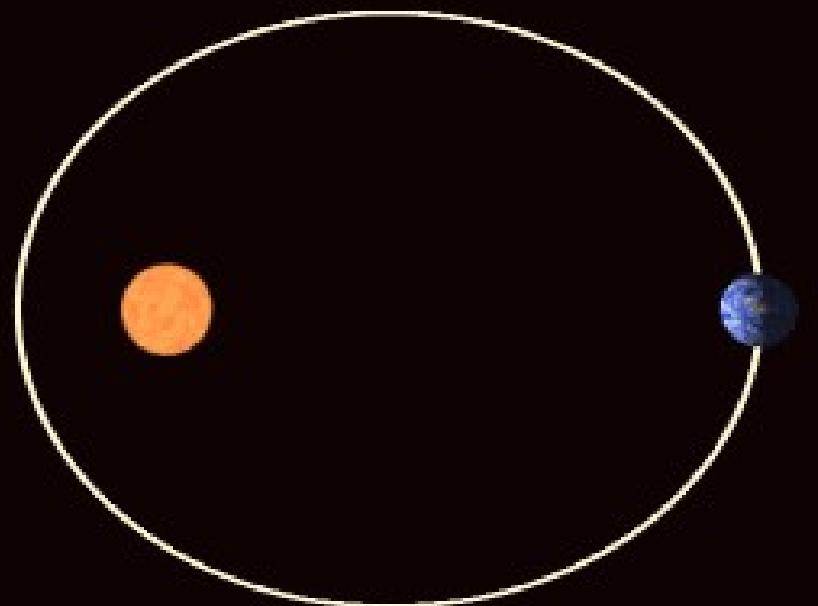


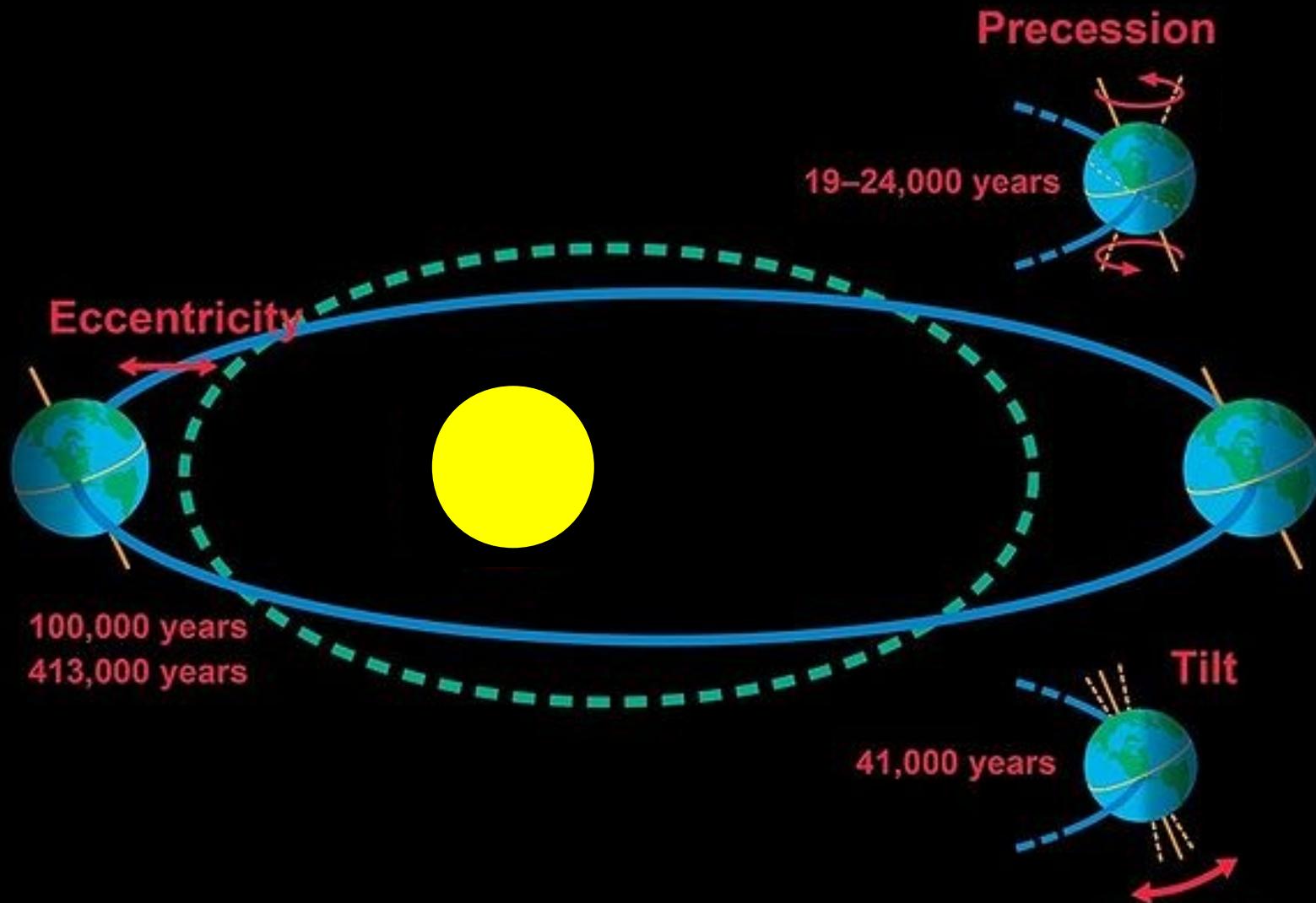


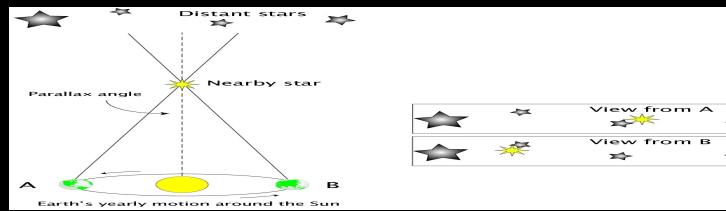
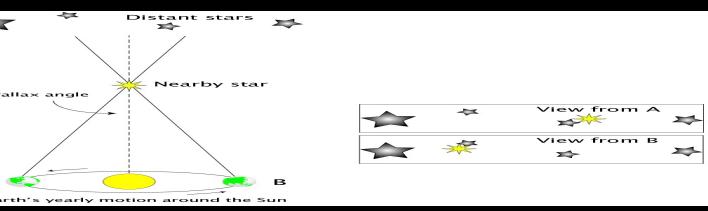
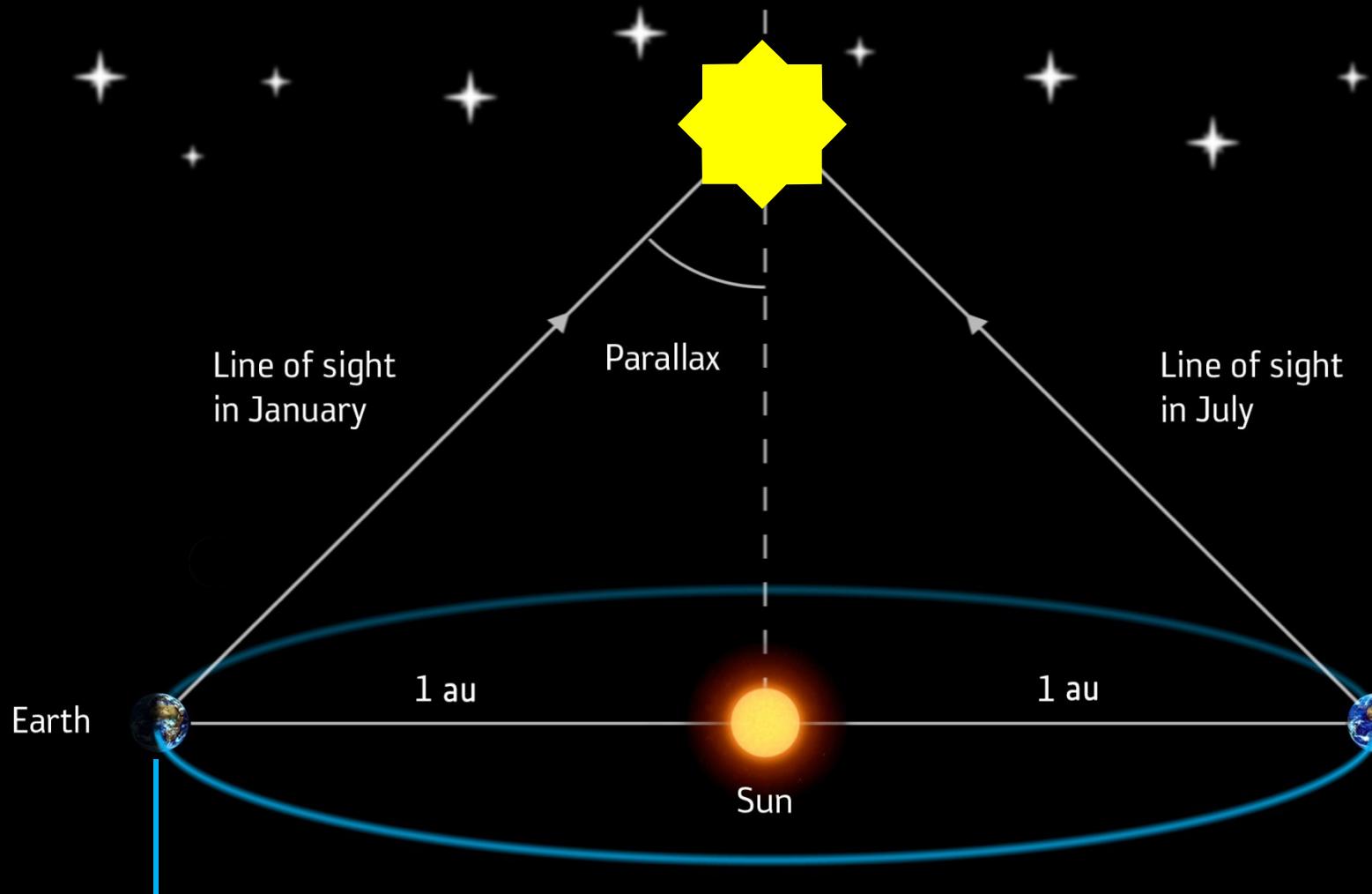
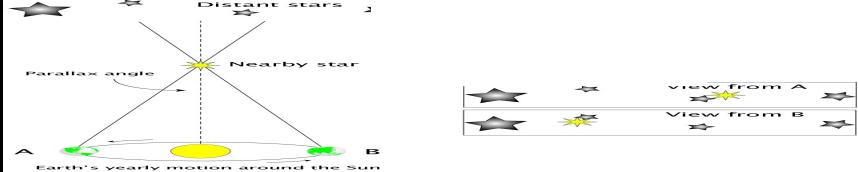


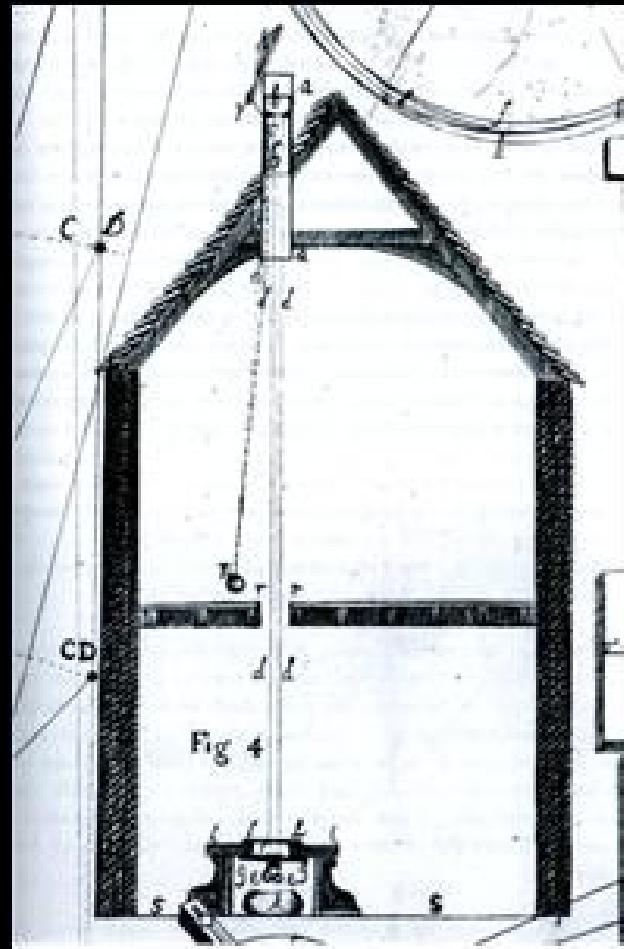
Polhody over 2001-2006 and mean pole since 1900

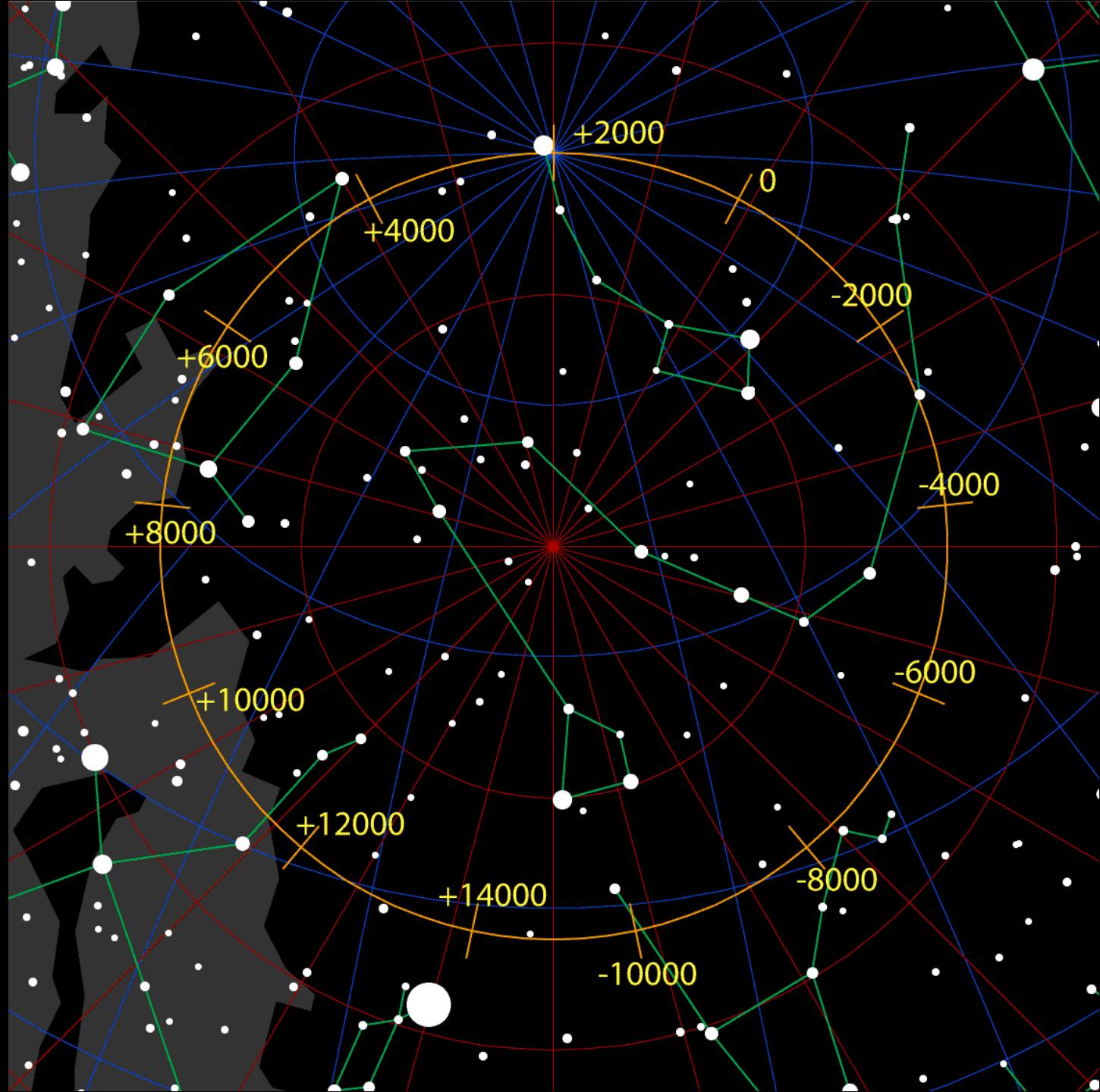


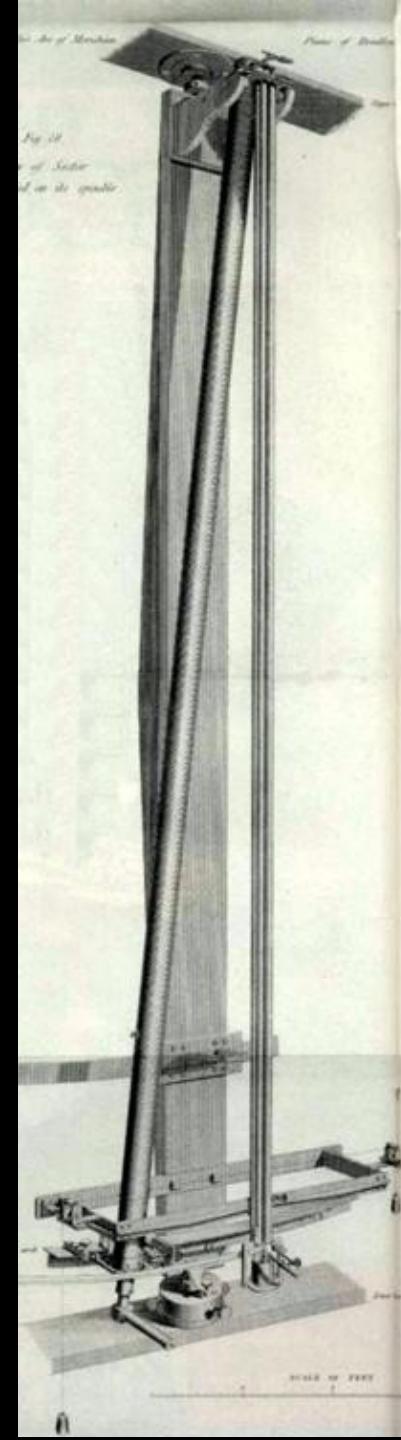












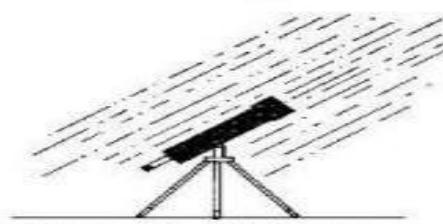
Flamsteed Astronomical Soc



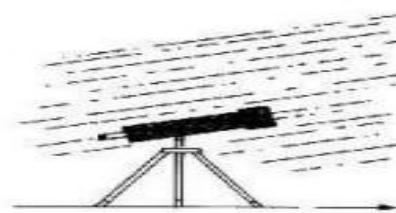
Standing



Moving



Telescope Stationary



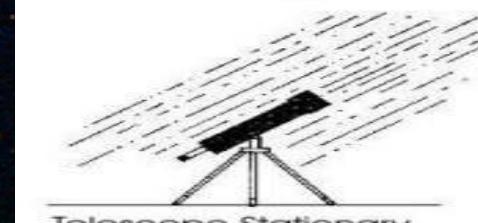
on Moving Earth



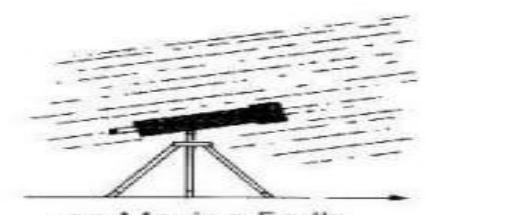
Standing



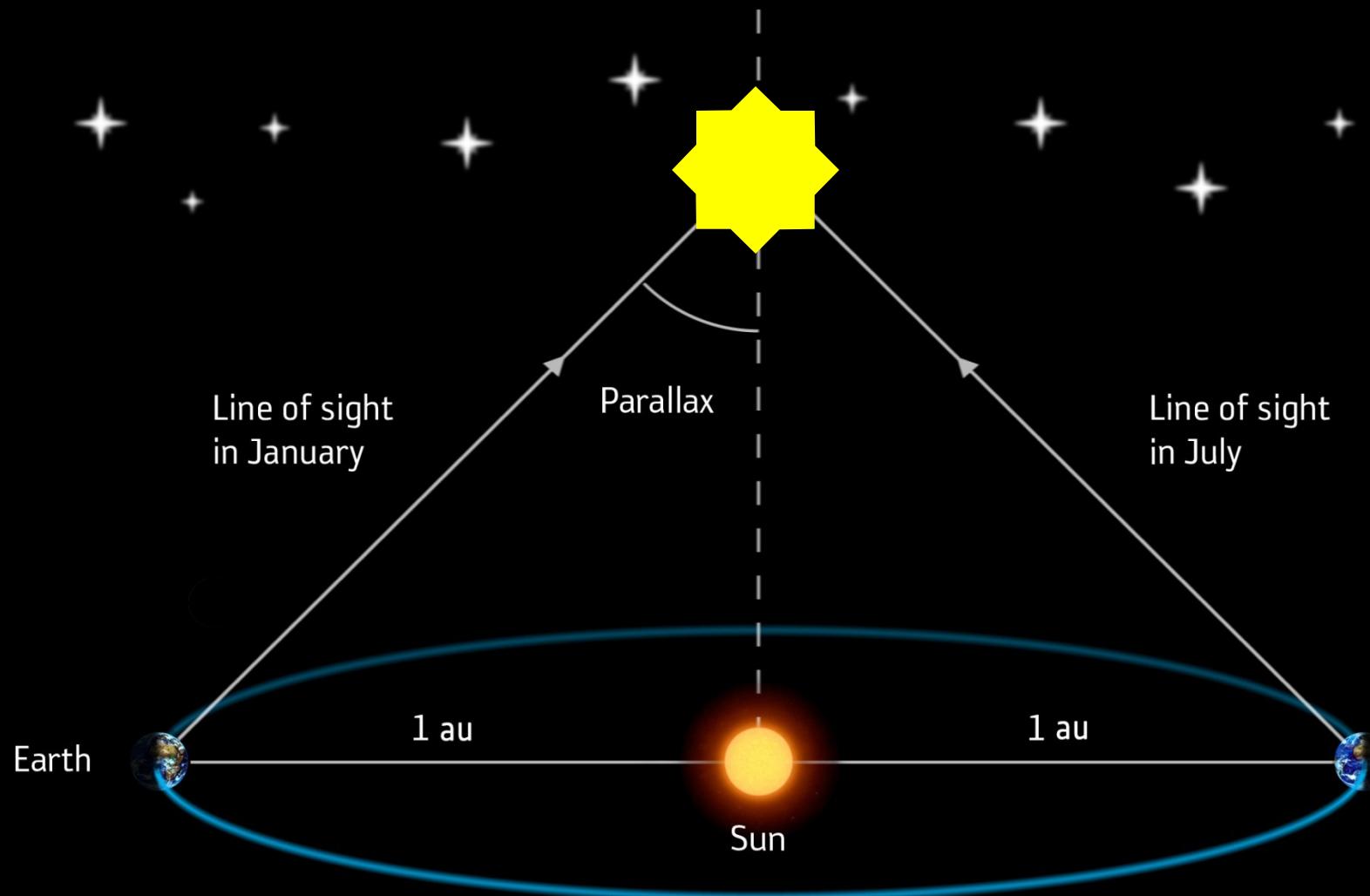
Moving



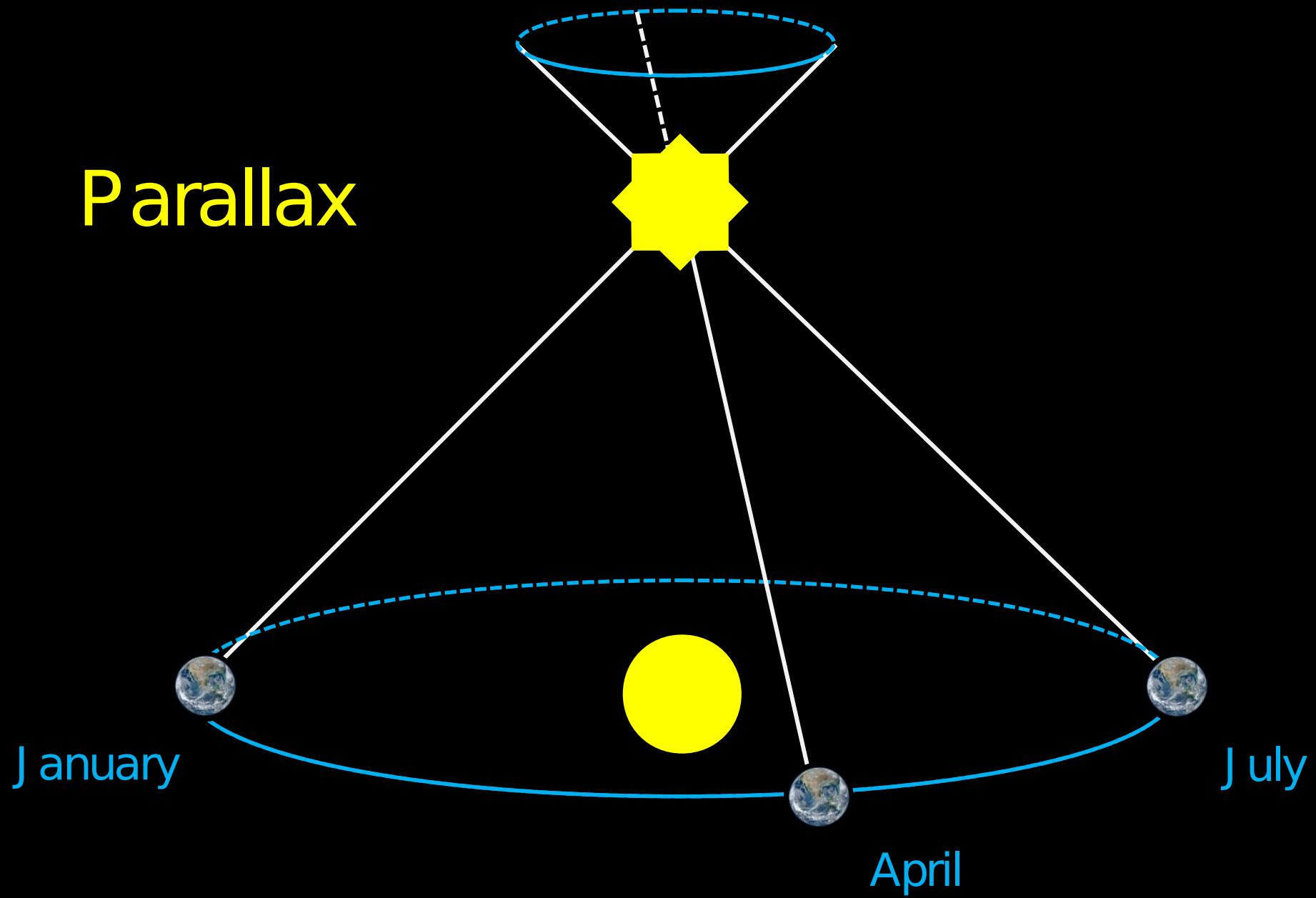
Telescope Stationary



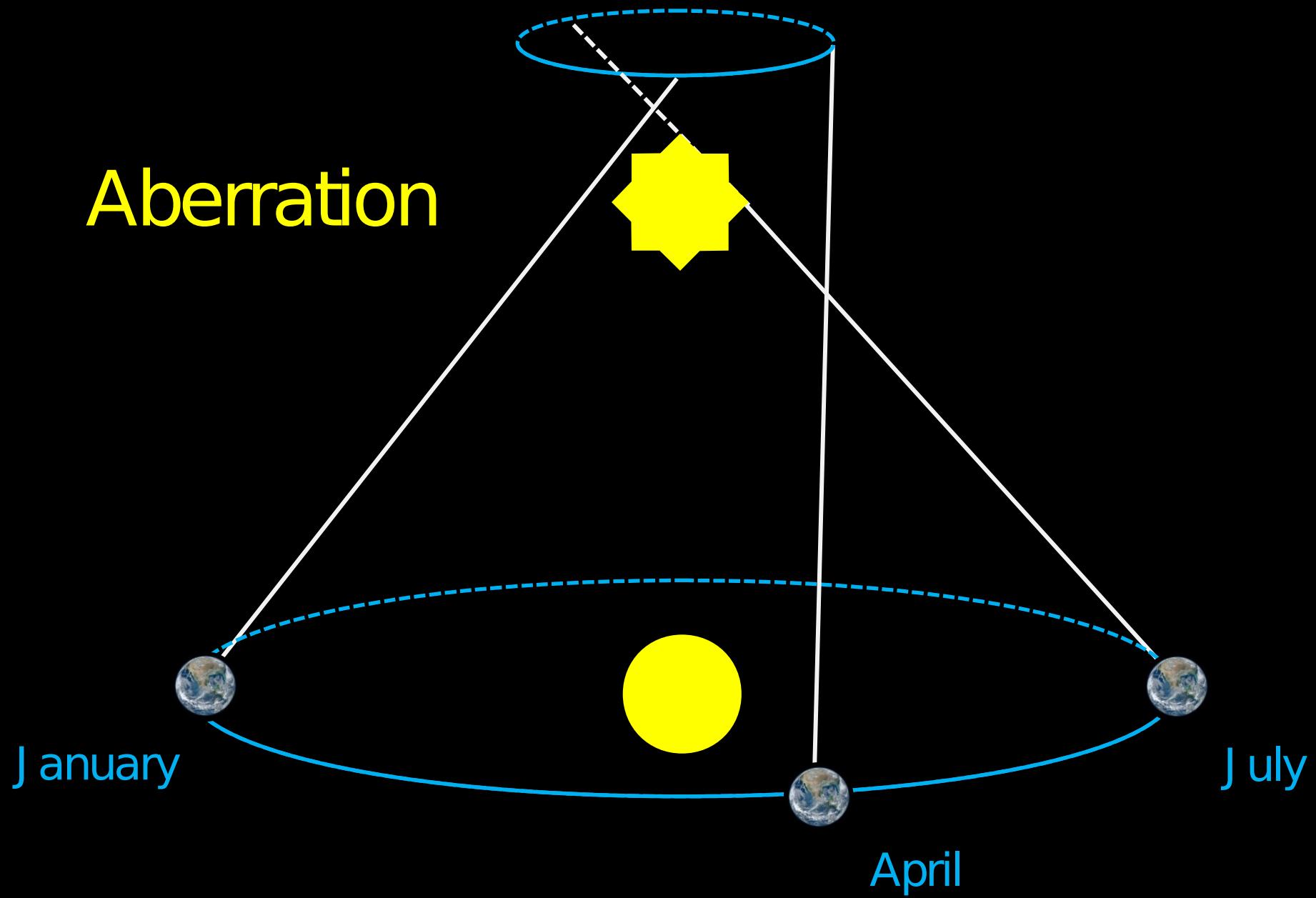
on Moving Earth

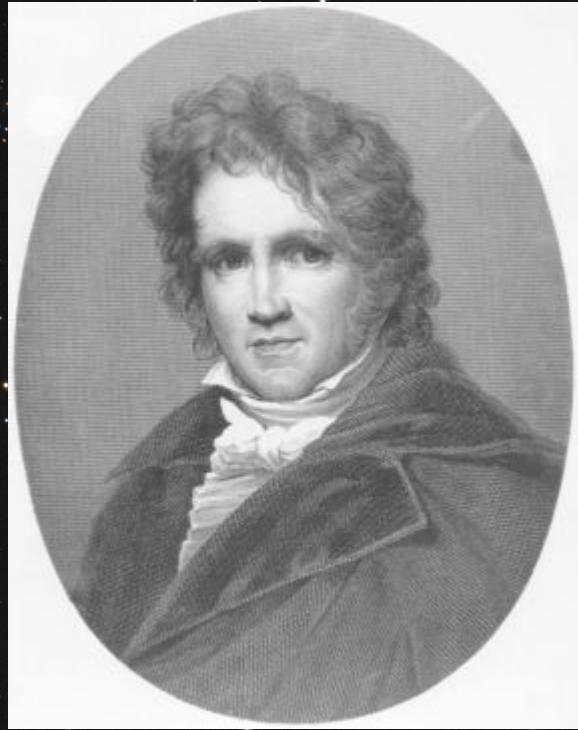


Parallax



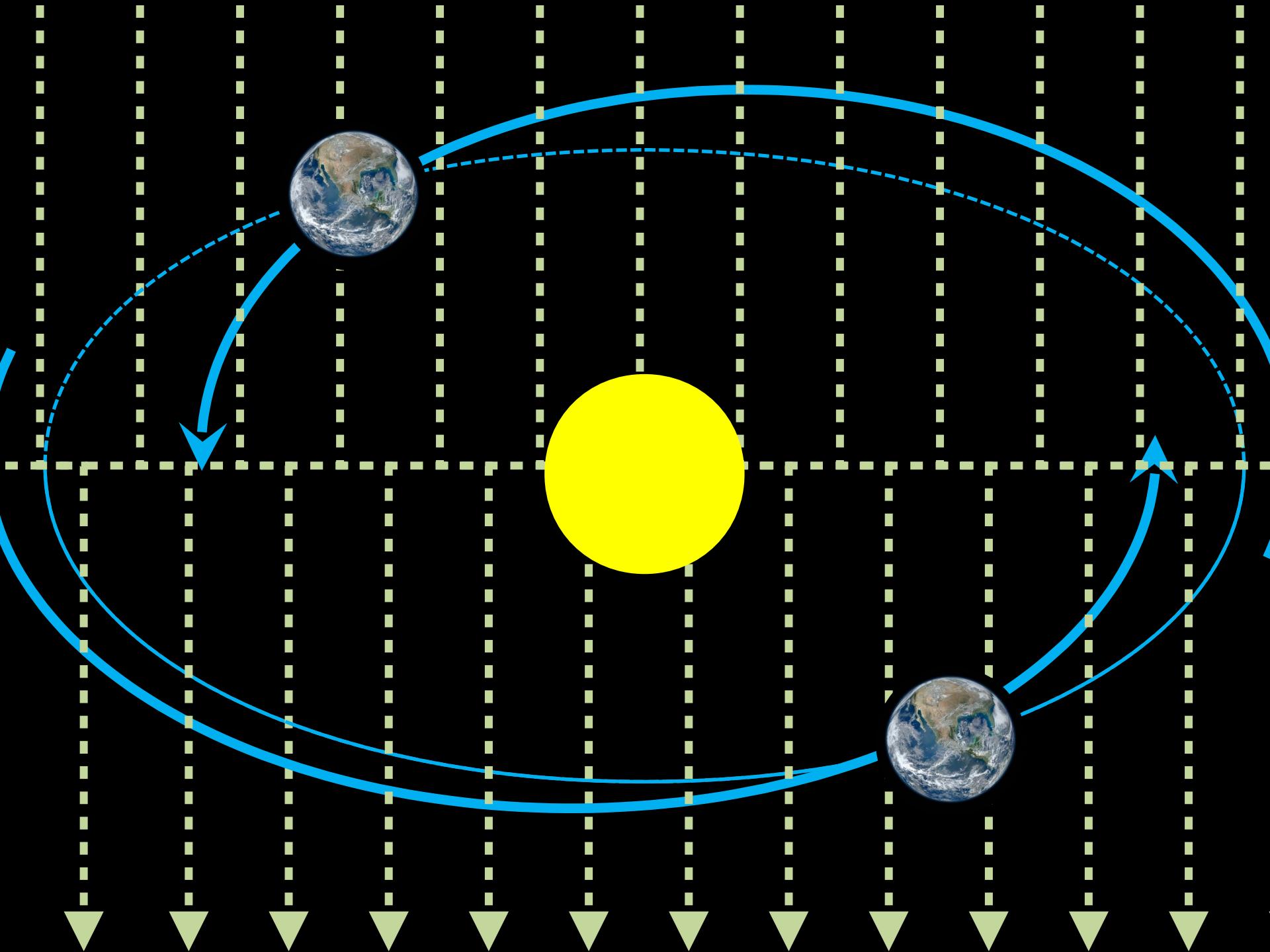
Aberration

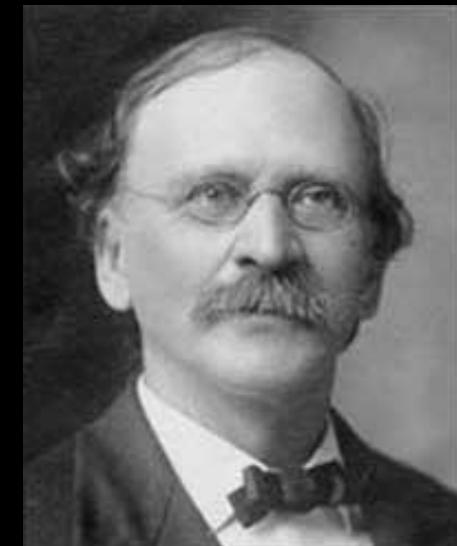
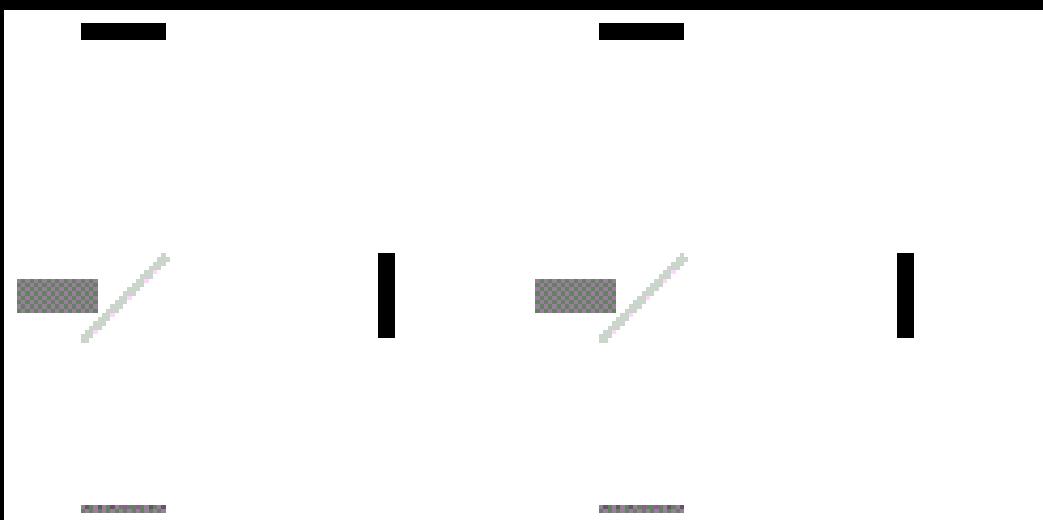
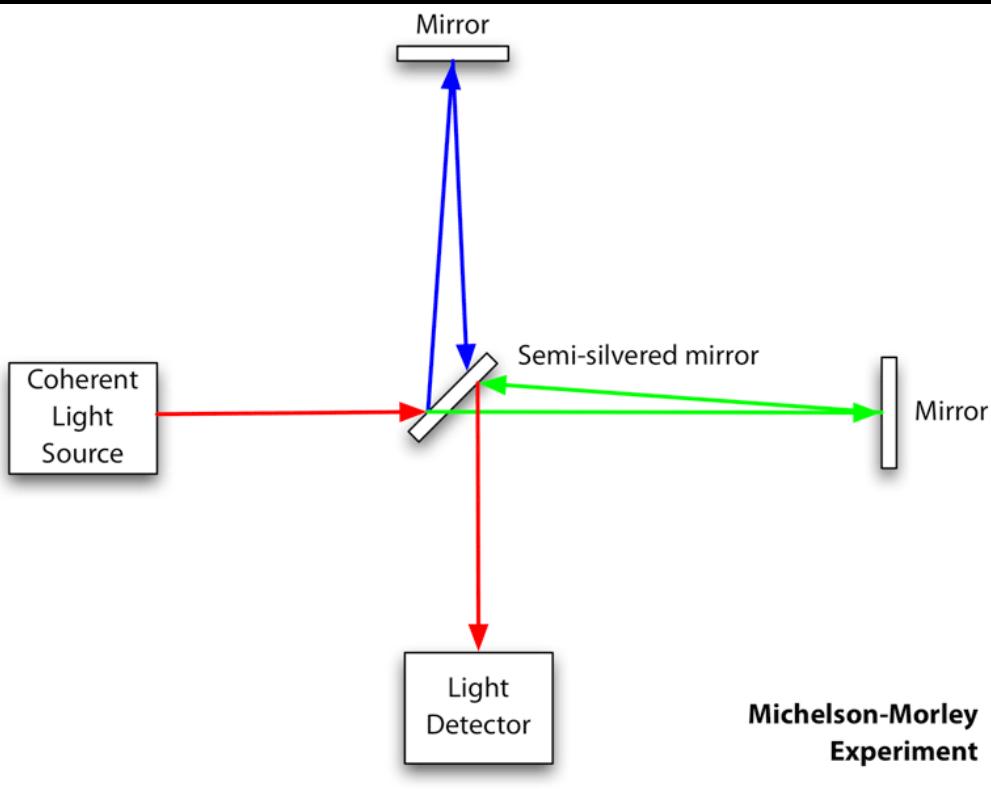




Friedrich Bessel
(1784-1846)

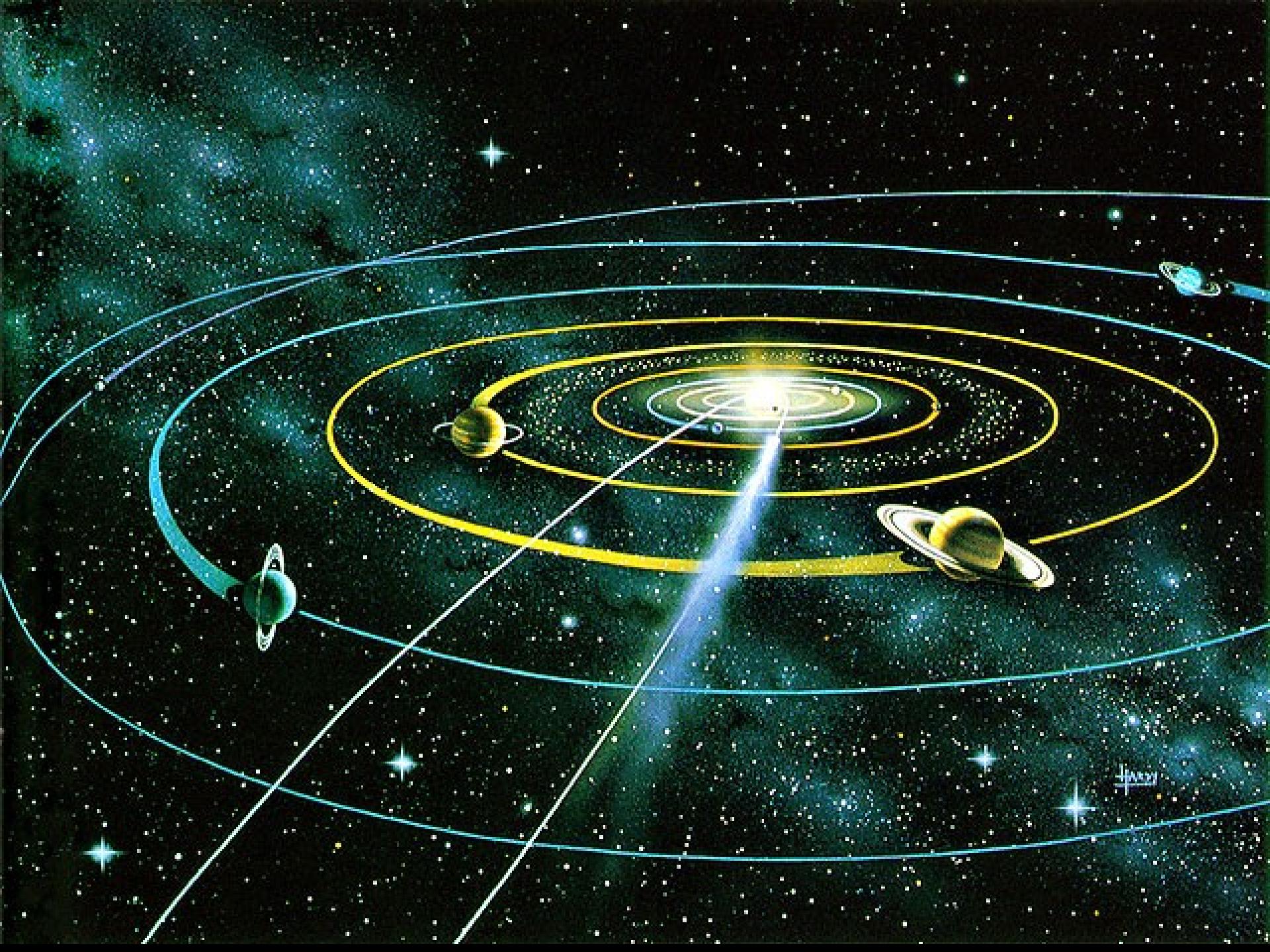
Bob Franke







NASA/NOAA/GSFC/Suomi NPP/VIIRS/Norman Kuring





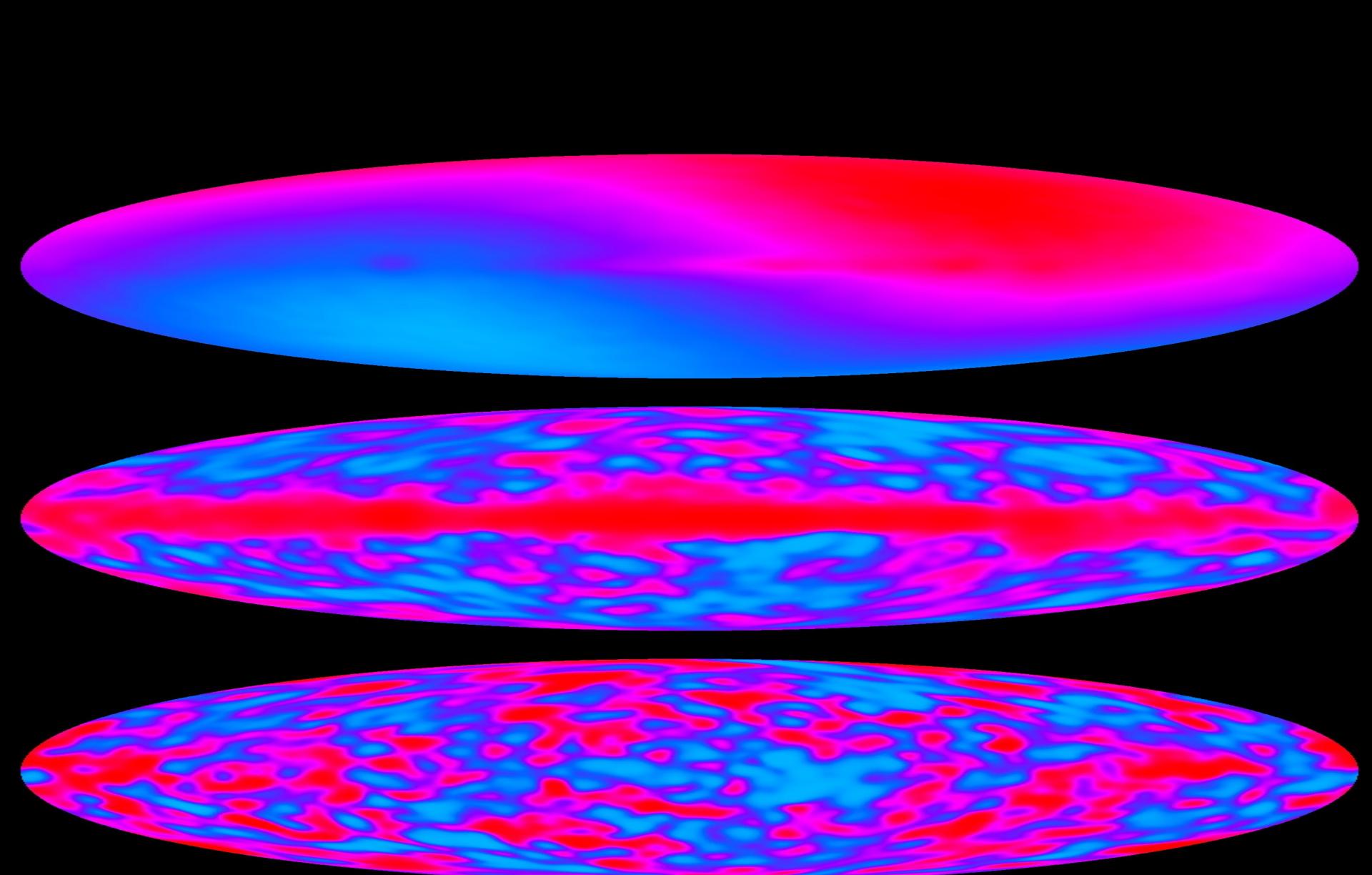
NASA, ESA, CFHT NOAO



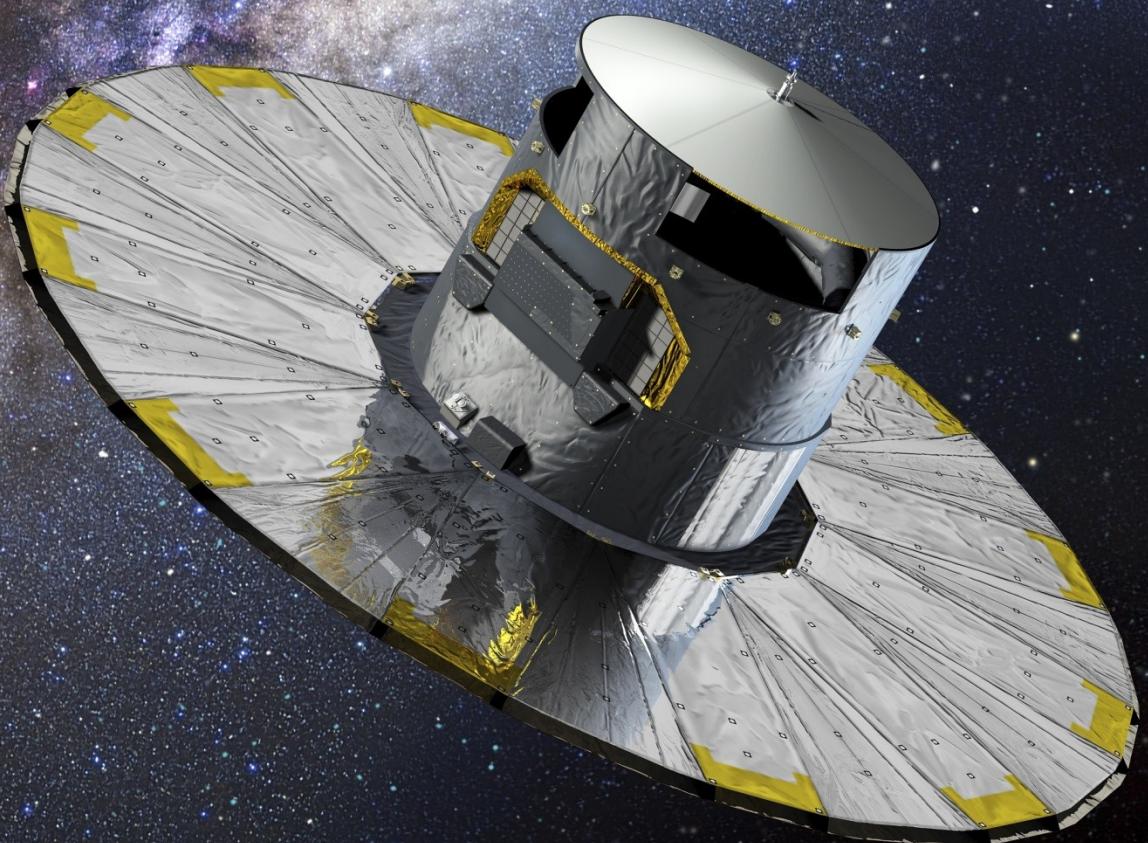
Bob Franke



NASA, ESA, CFHT NOAO



NASA



ESA



Wed 24th September
1pm

The Sun, our nearest
star

Wed 22nd October 1pm

The search for dark
matter

Wed 19th November
1pm