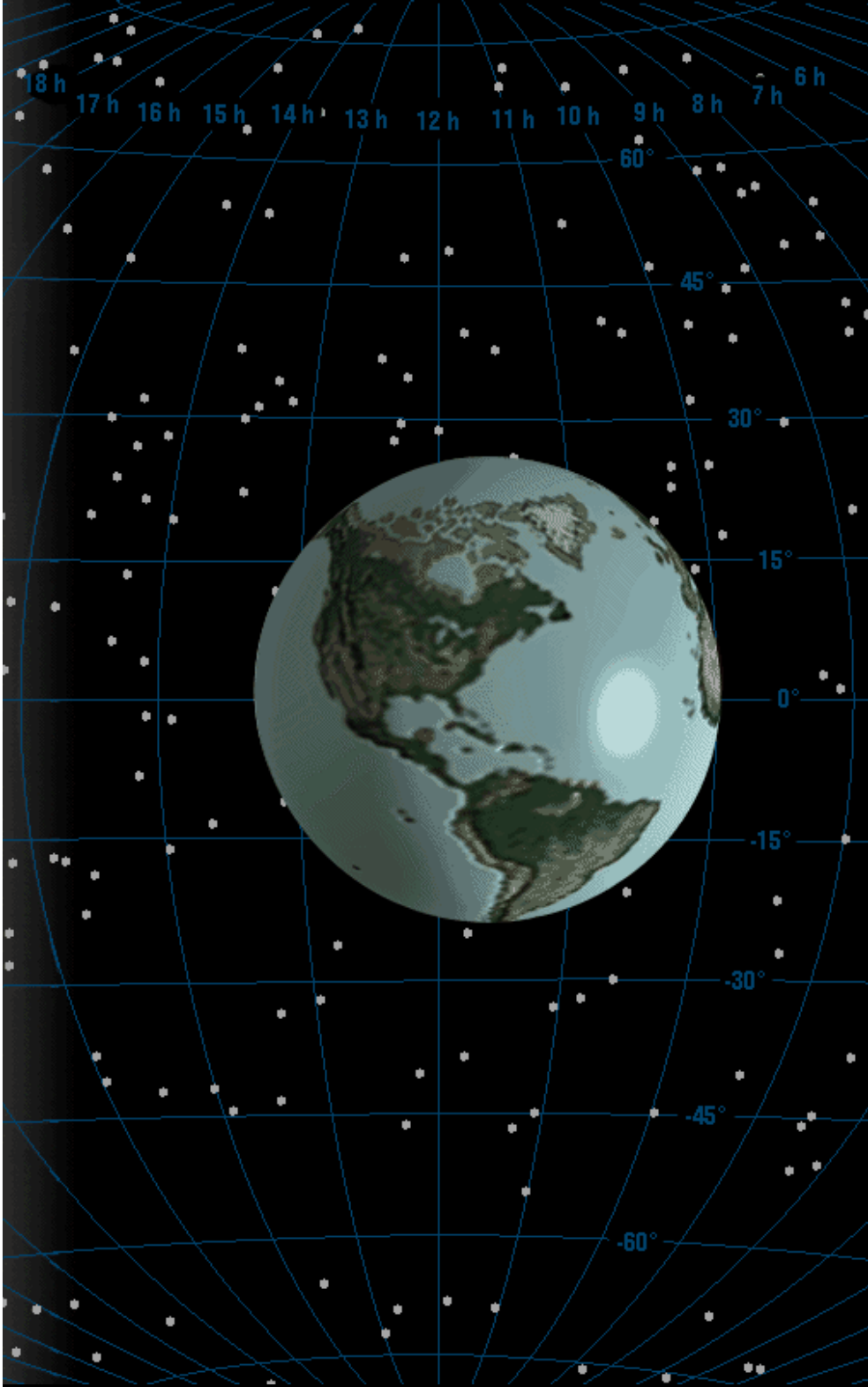


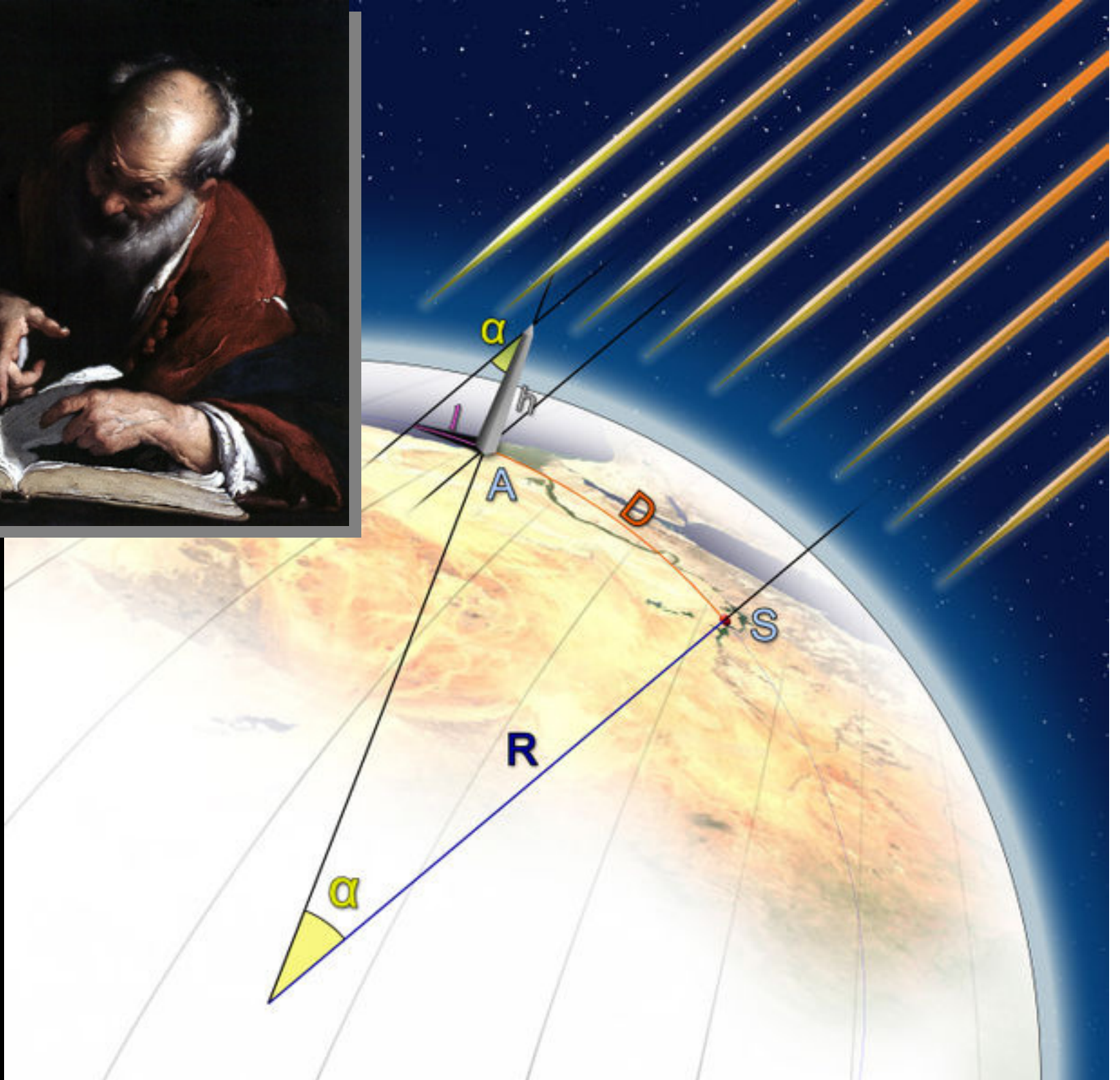


Thirty years of Space Geodesy at ASI

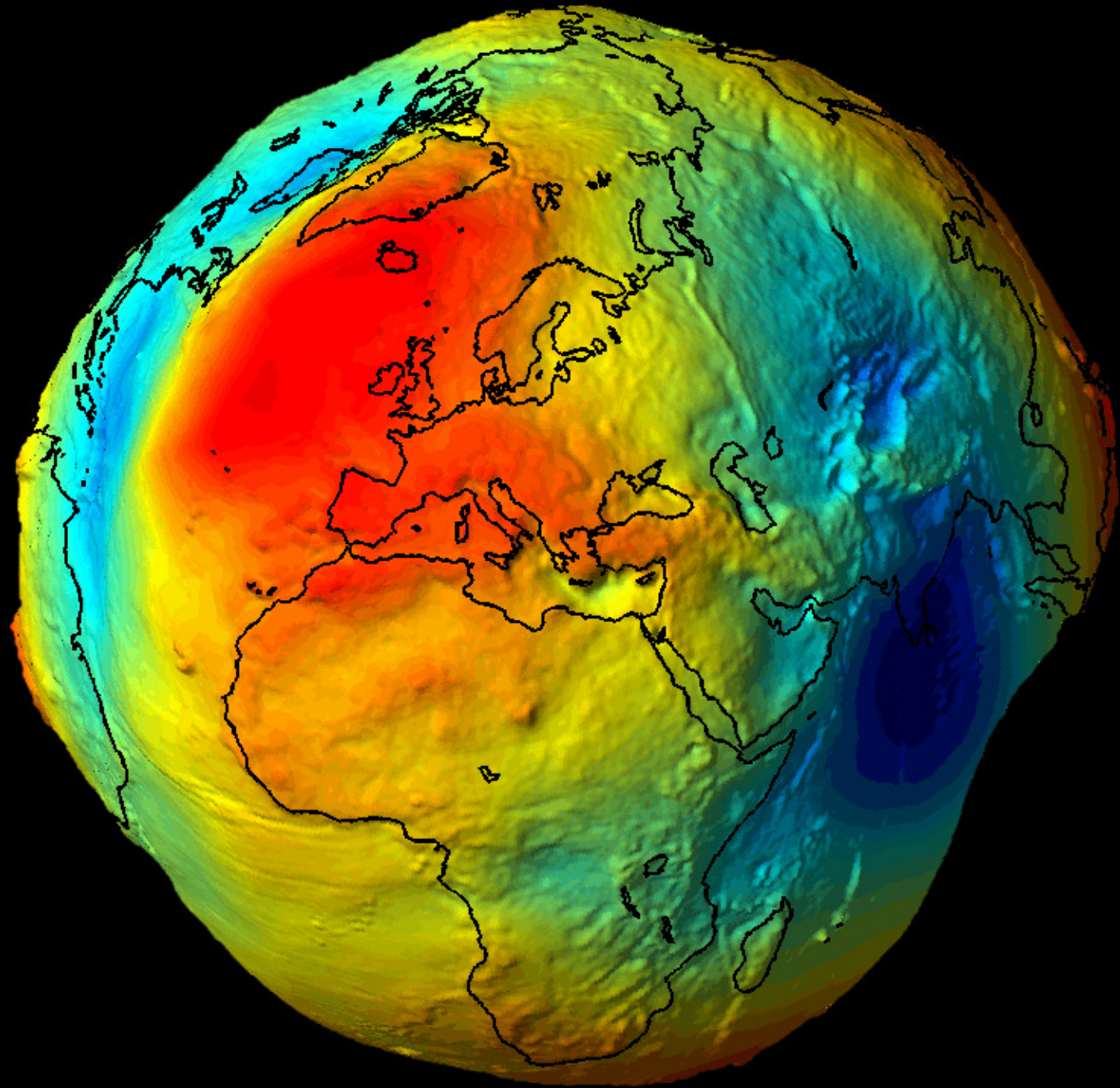
Giuseppe Bianco
Head, Space Geodesy Unit, ASI

COPUOS
Scientific and Technical Subcommittee 51st Session
Vienna, Austria, 19 February 2014

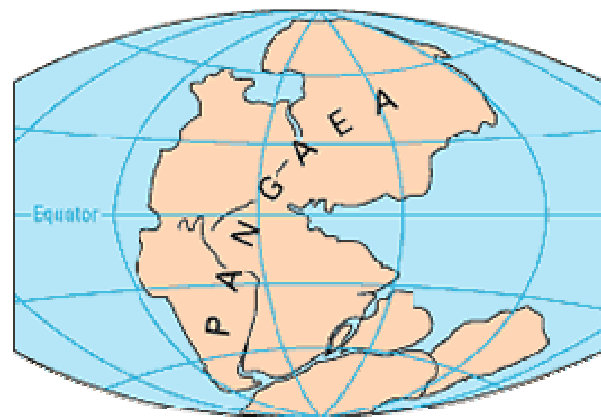








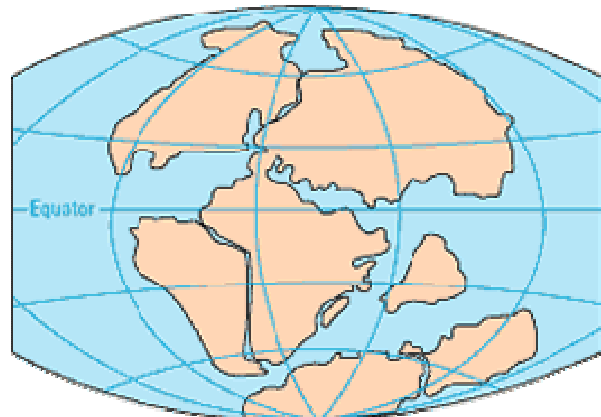
Credits: ESA



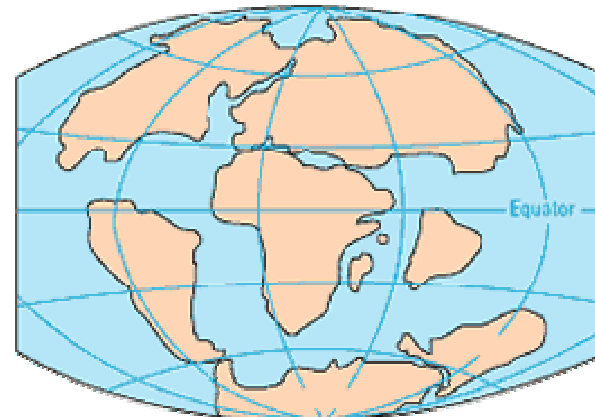
PERMIAN
225 million years ago



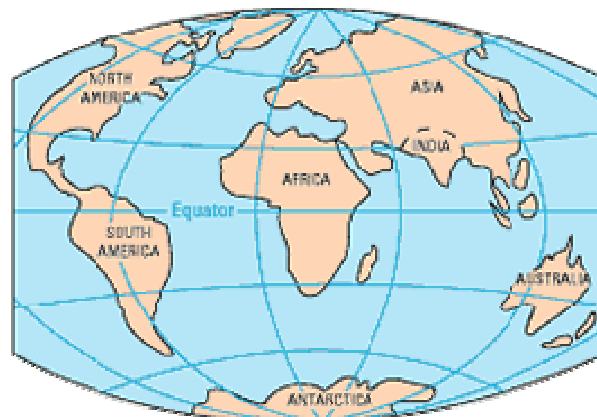
TRIASSIC
200 million years ago



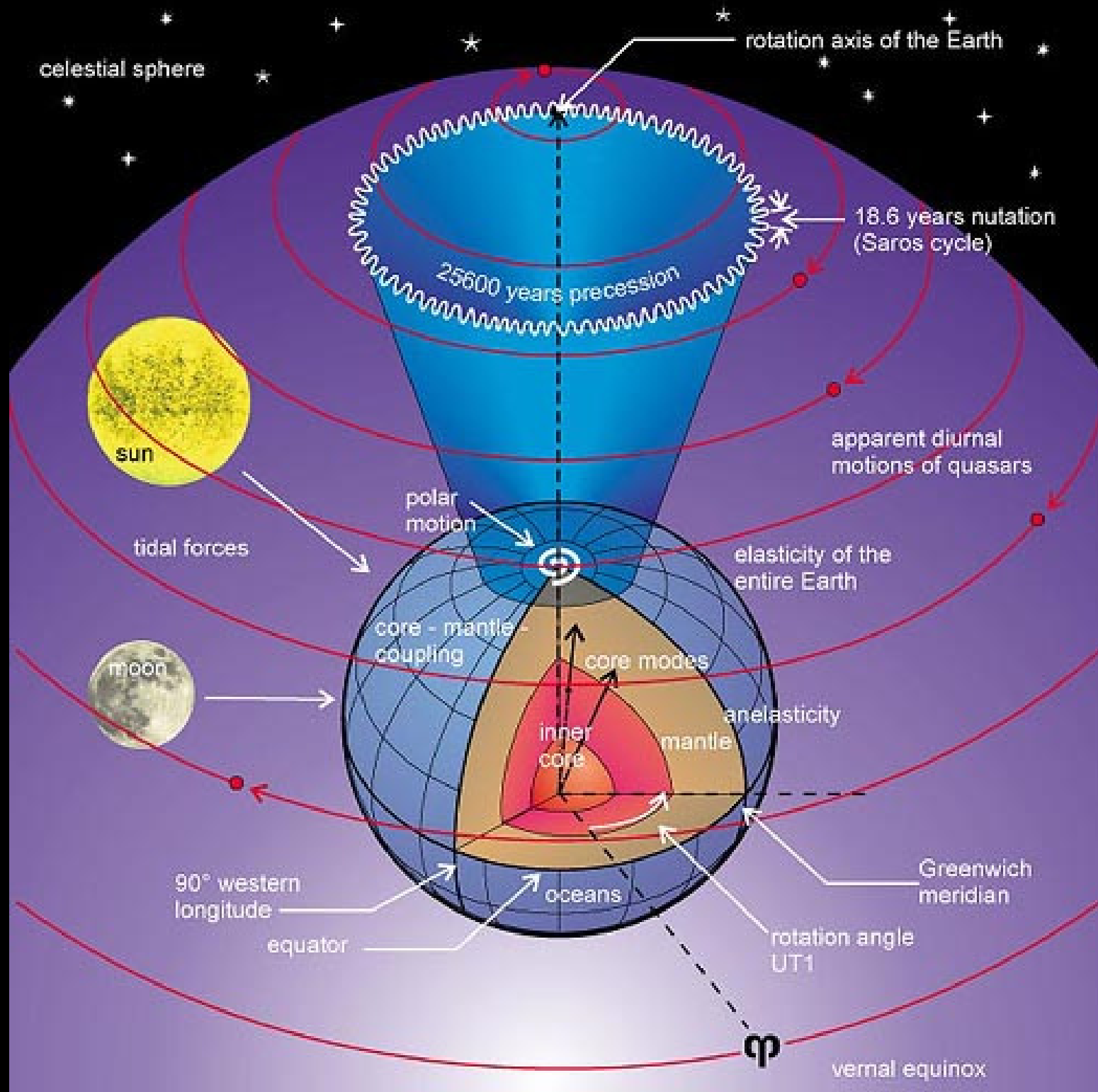
JURASSIC
135 million years ago

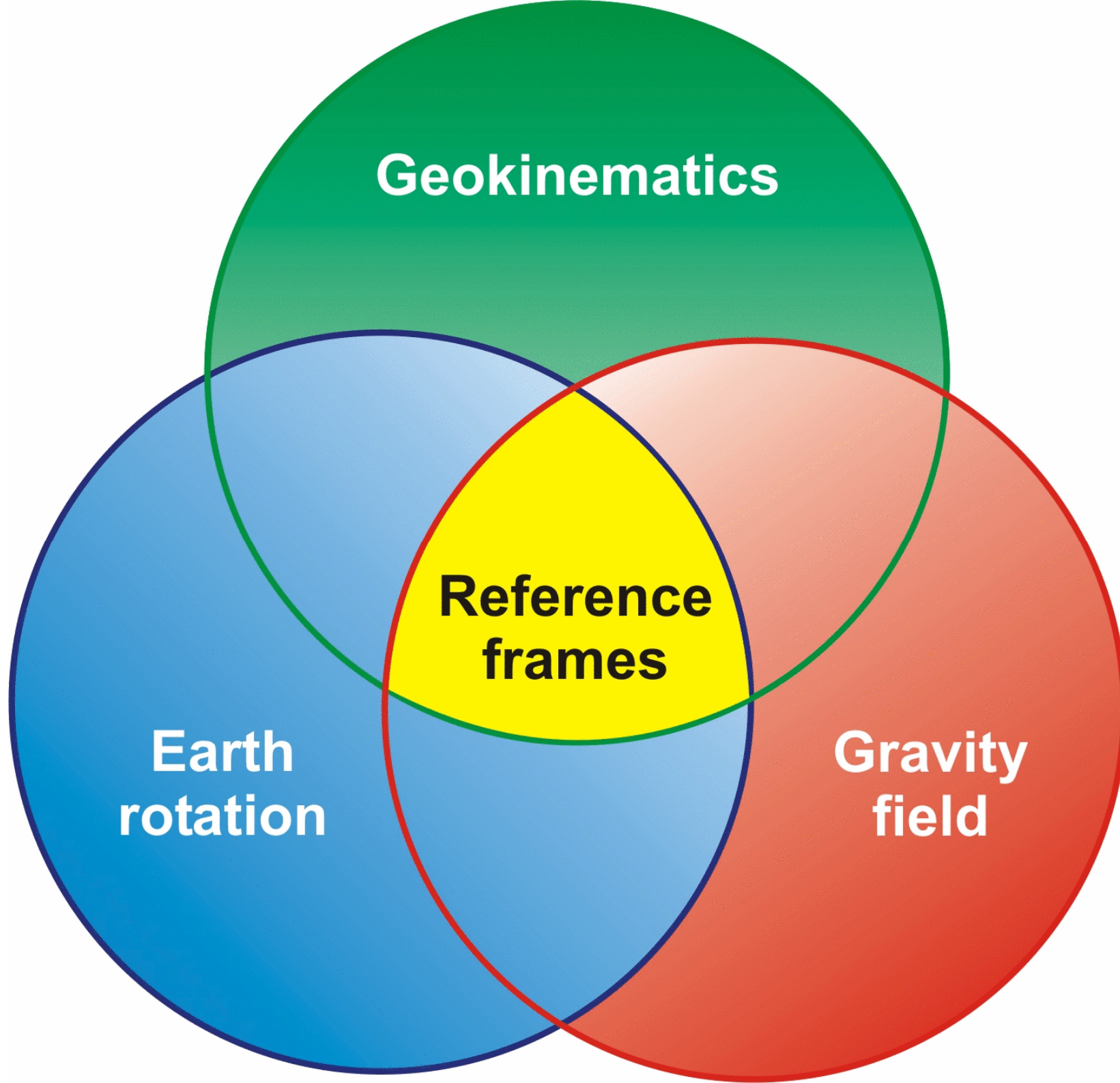


CRETACEOUS
65 million years ago



PRESENT DAY





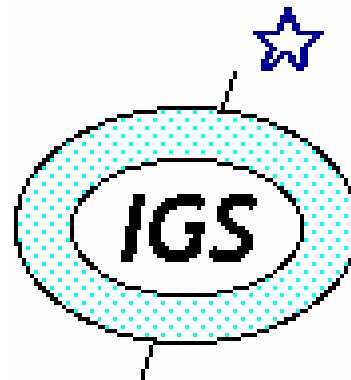
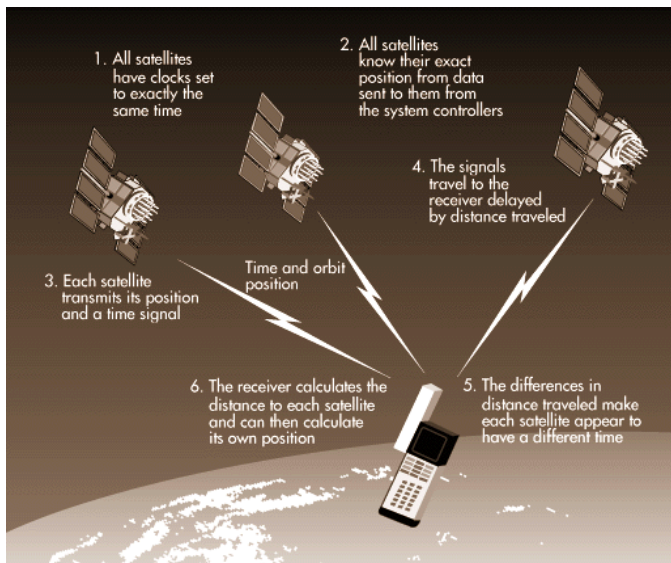
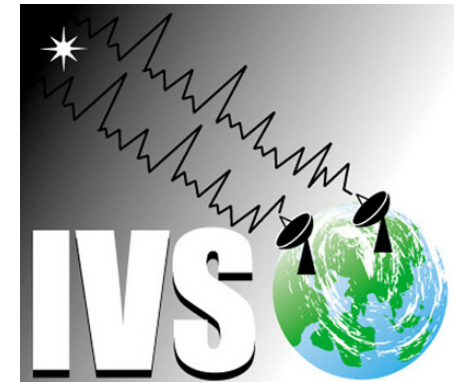
Geokinematics

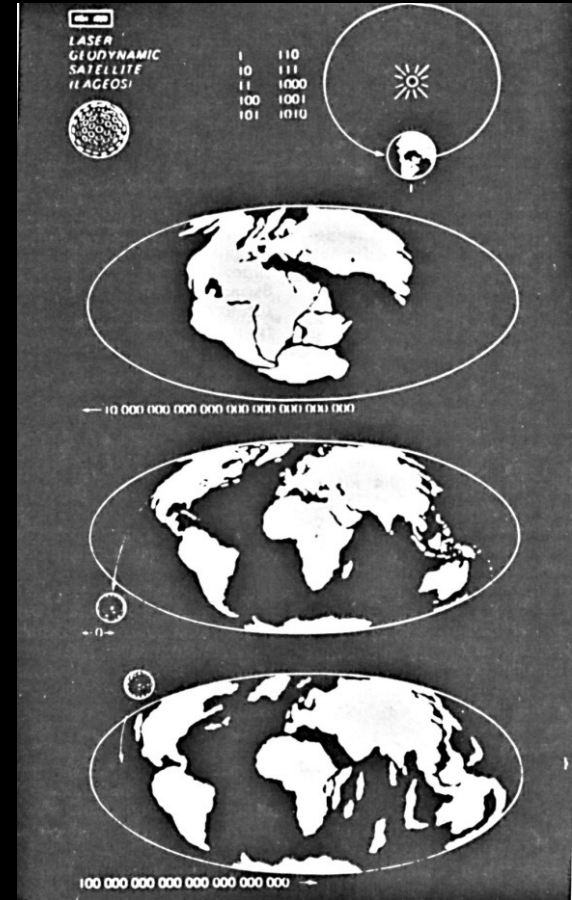
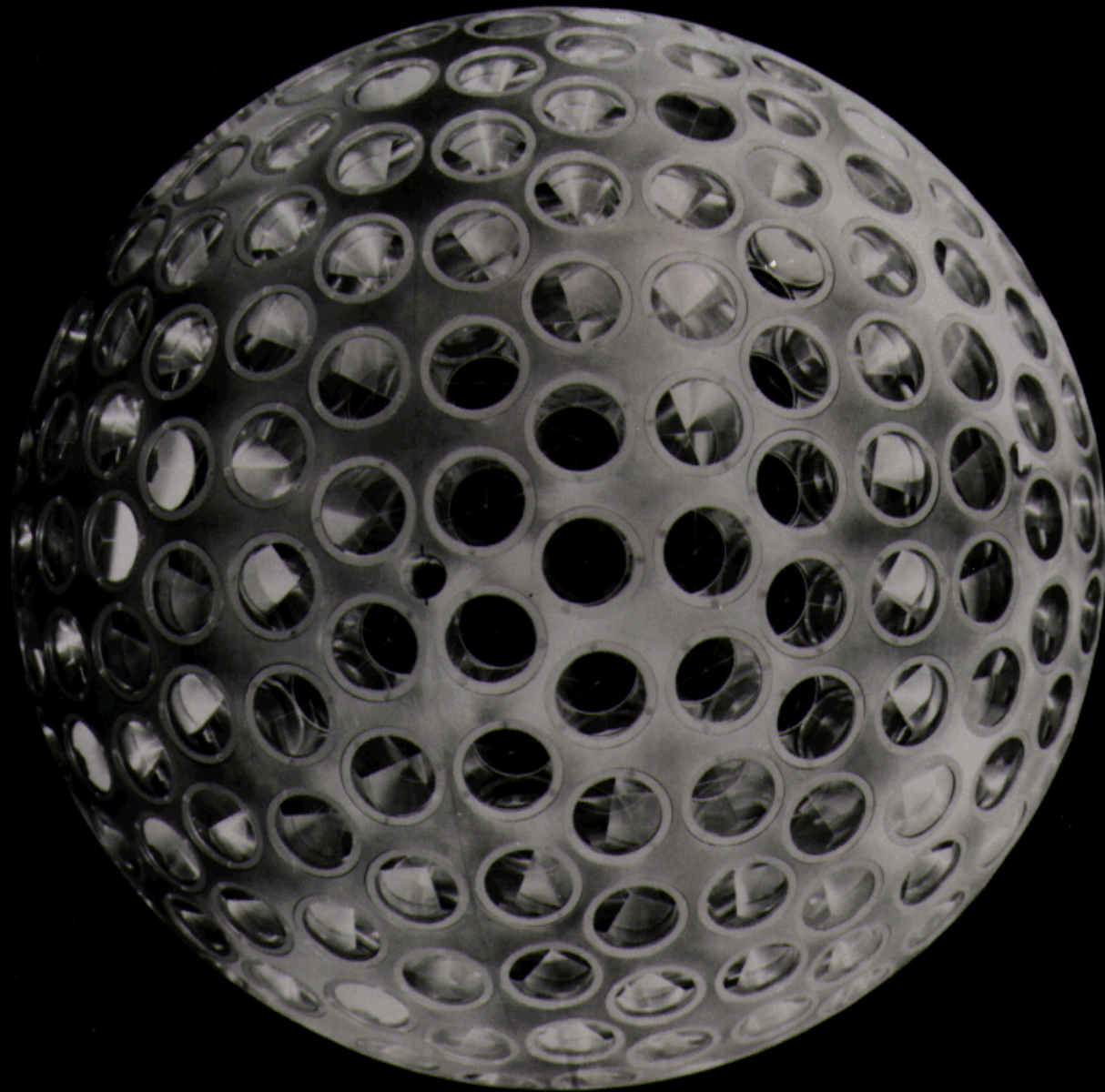
**Earth
rotation**

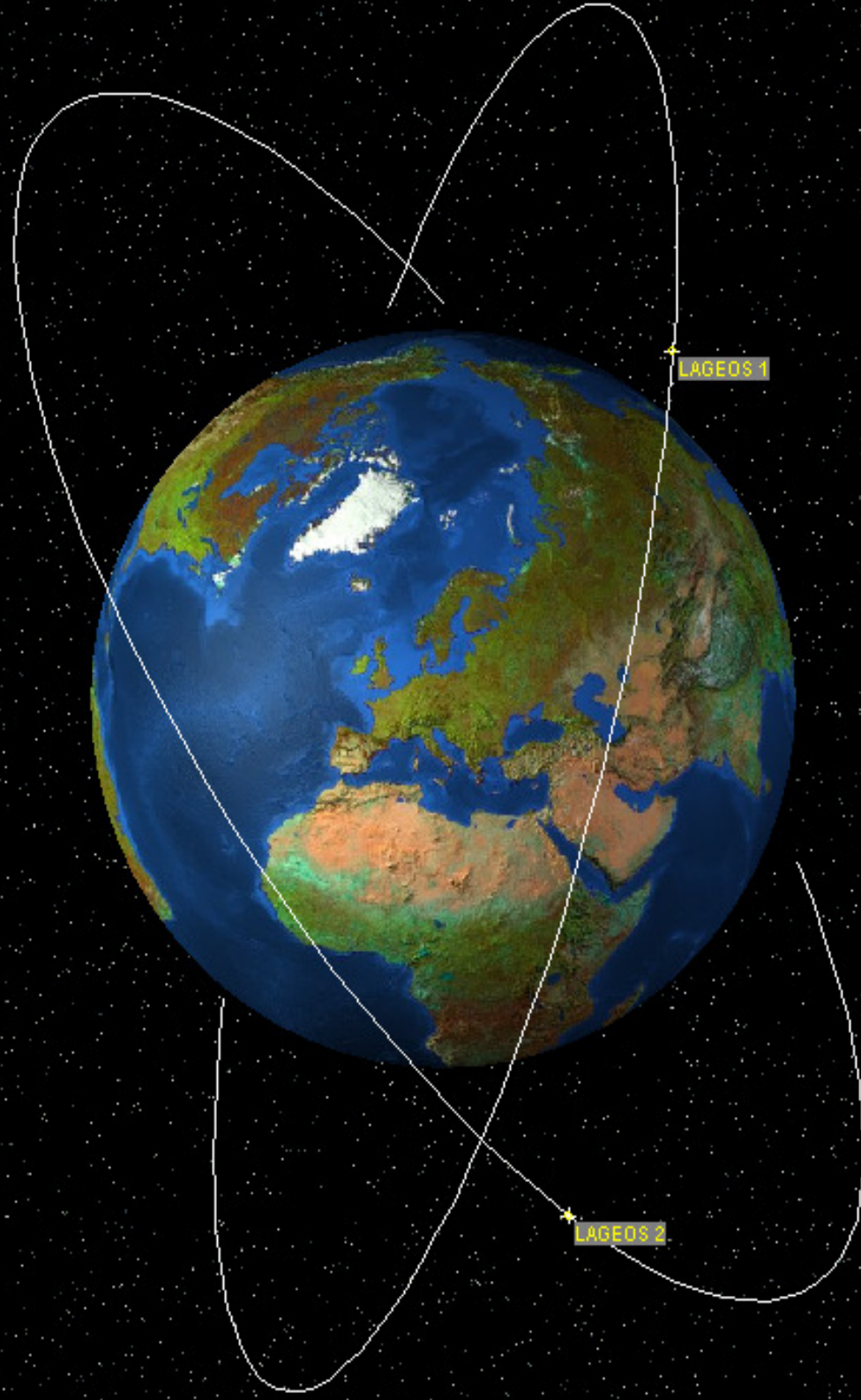
**Reference
frames**

**Gravity
field**

Global Geodetic Observing System







ASI/CGS aerial view (from GoogleEarth)



© 2007 Europa Technologies

© 2007 Tele Atlas

Image © 2007 DigitalGlobe

Streaming ||||| 100%

© 2007 Google™

Puntatore 40°38'56.37" N 16°42'13.08" E elev 479 m

Alt 927 m

MLRO 

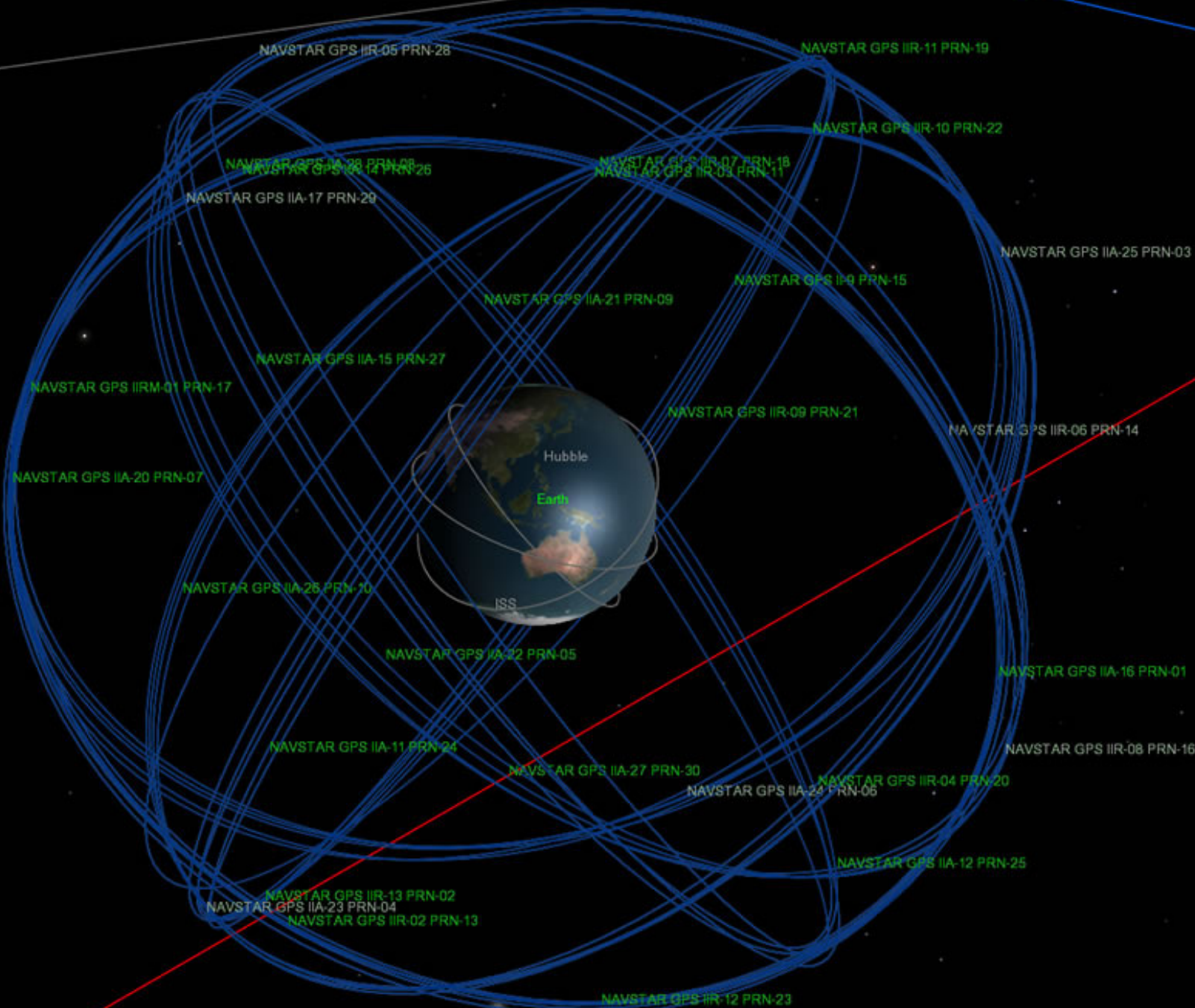




Earth

Distance: 83,511 km
Radius: 6,378.1 km
Apparent diameter: 8° 08' 16.0"
Day length: 23.934 hours
Temperature: 260 K

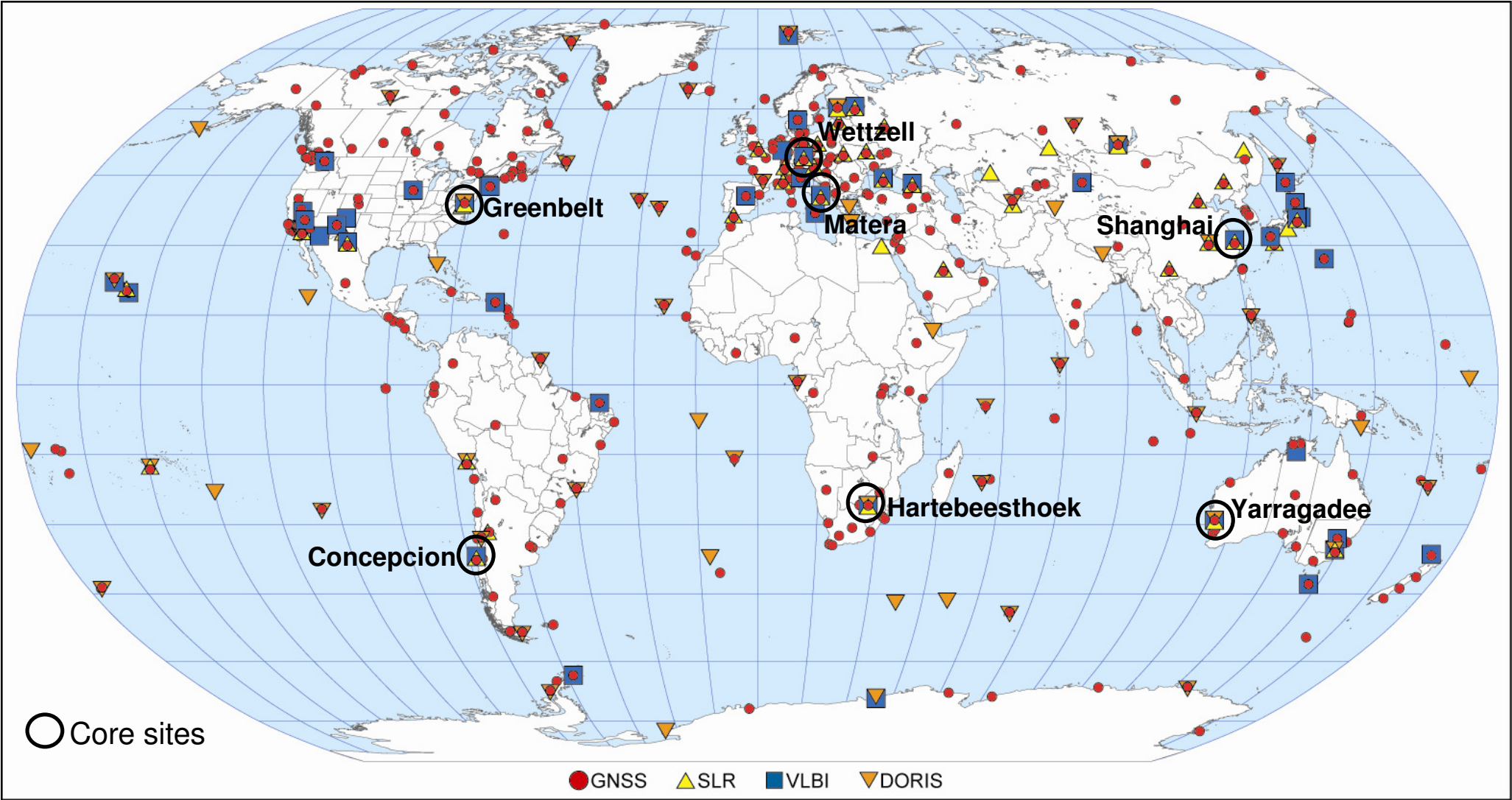
2006 02 11 01:14:11 UTC
Real time

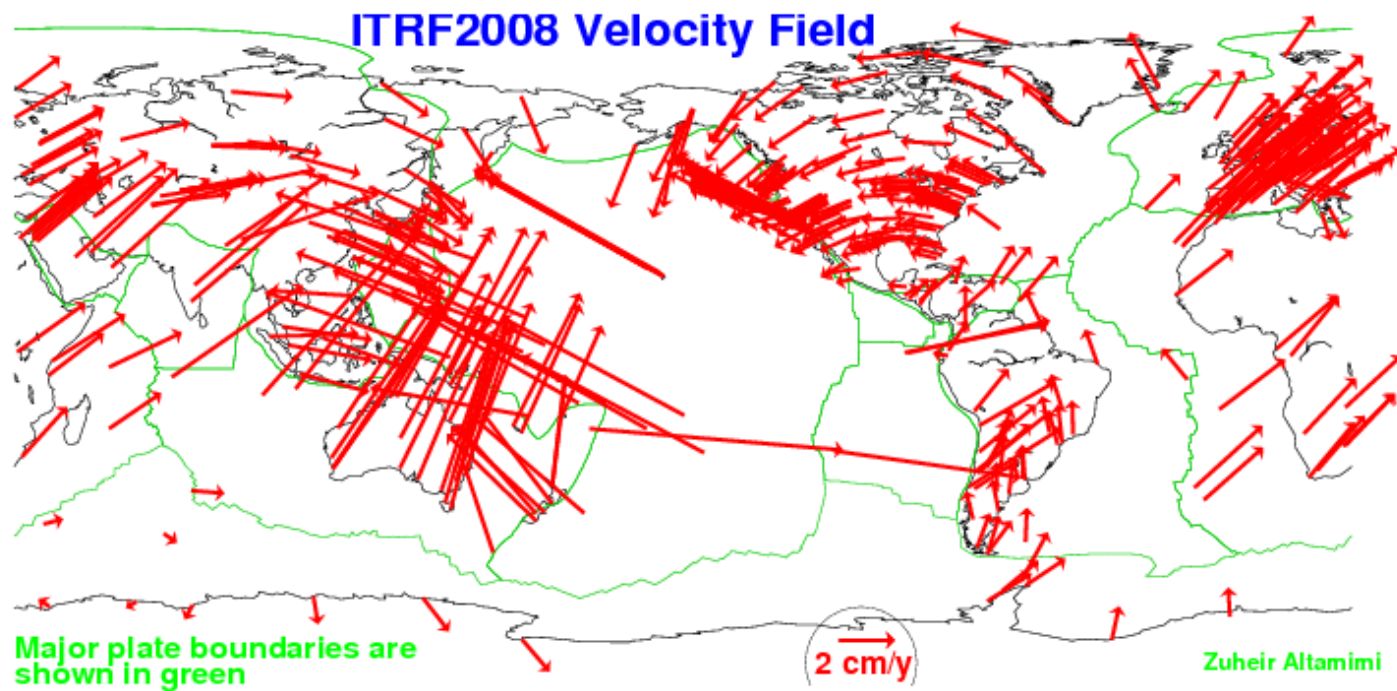
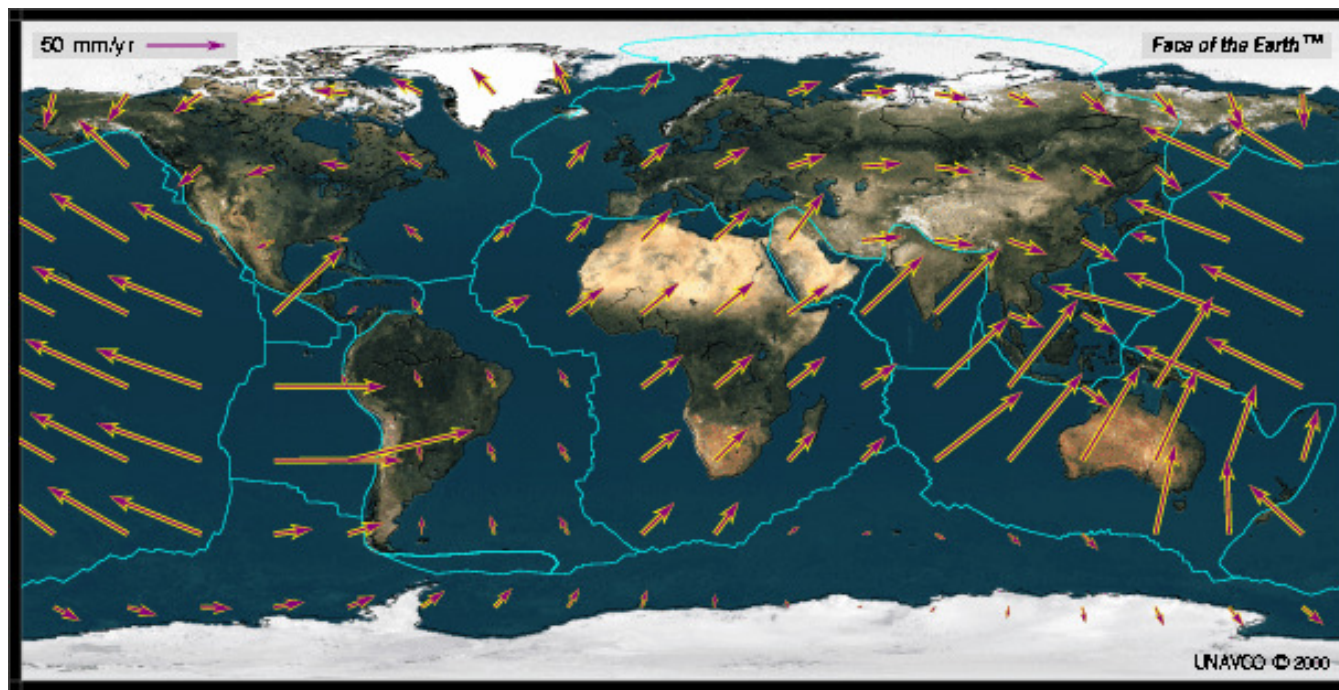


Speed: 0.000 m/s

Follow Earth
FOV: 38° 18' 2.6" (100x)

Current Networks of GNSS, SLR, VLBI, and DORIS Sites





■ LRSA 1993-2012 weekly geocenter vs ITRF2008 origin

