

Earth interior theory could be wrong completely

Edgars Alksnis
e1alksnis@gmail.com

Alternative explanation for differences of propagation of seismic waves in Earth interior is presented in short.

keywords: seismic wave propagation, liquid Earth's core, liquid Earth's mantle, fast spinning Earth's core, Earth Crust Displacement theory

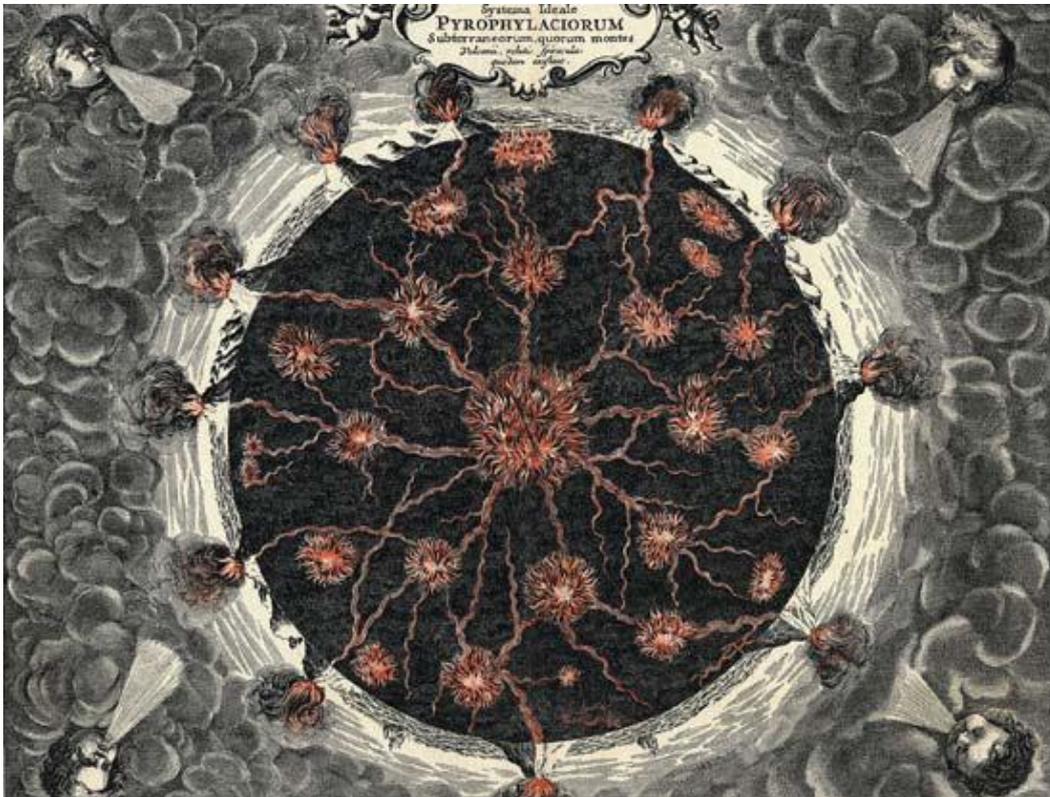


Fig. 1 **Earth internal fires.** From Athanasius Kircher: *Mundus Subterraneus*, 1665

Seismic waves are our only tool to study Earth's interior. Results of seismic experiments (fig.2) typically are explained with nearly solid Earth inner core and a bit softer outer core. Since geophysicists believe, that Earth's magnetic field is generated from movement of molten iron, concept looks satisfactory- if one do not look more closely. Mounting problems with explanation of geomagnetism and plate tectonics (Alksnis, 2016), inability of mainstream to explain generation of "geomagnetic field" and irregular "geomagnetic pole" reversals as well as "geomagnetic" field in Earth's vicinity prompt us to revisit all geophysical story in short.

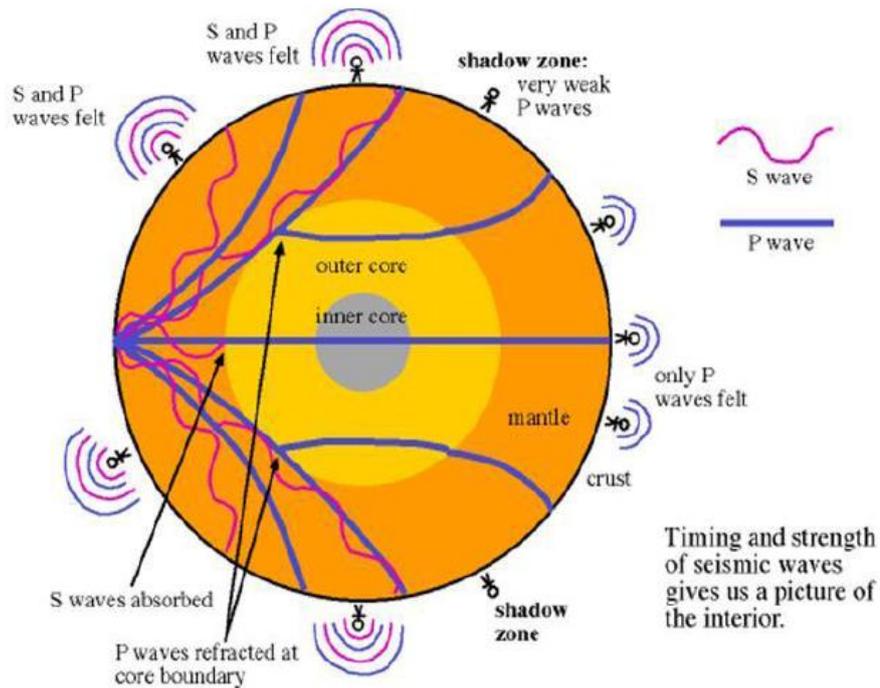


Fig.2. Seismic waves in earth interior. Credit:

<https://www.wsfc.k12.nc.us/cms/lib/NC01001395/Centricity/Domain/7110/Seismic%20Waves%20and%20Earths%20Interior%20PPT.pdf>

Here is overlooked possibility to alternatively explain results of seismic experiments- liquid Earth mantle with rapidly spinning liquid Earth core. This hypothesis can explain phenomena, pictured in Fig.2- absorption of shear (S) waves and refraction of compressional (P) waves. Earth has no classical magnetic field in this concept. “Geomagnetic” field originate in Earth’s “mantle”.

First suggestions about celestial body, interior of which spins faster that exterior arose fifty years ago in helioseismology (Clement, 1970; Claverie, 1981; Spruit et al, 1983; Roxburgh, 1987) and finally get wider approval last year (SOHO). Author suspects similar phenomena for Jovian planets. Earth Crust Displacement theory thus may get some points, if “mantle” viscosity temporary drops.

References

- Alksnis (2016) Time for climate normalization research. *VIXRA*
- Claverie A. (1981) Rapid rotation of the solar interior. *Letters to Nature*.
- Clement M. (1970) Differential rotation in the solar interior.
https://link.springer.com/content/pdf/10.1007/978-94-010-3299-5_38.pdf
- Roxburgh I. (1987) Problems of the solar interior.
https://link.springer.com/content/pdf/10.1007/978-94-009-3903-5_1.pdf
- SOHO- (2017) SOHO Reveals Rapidly Rotating Solar Core. NASA.
- Spruit H. et al (1983) Internal rotation of the Sun. *Nature* **304**, 520-522.