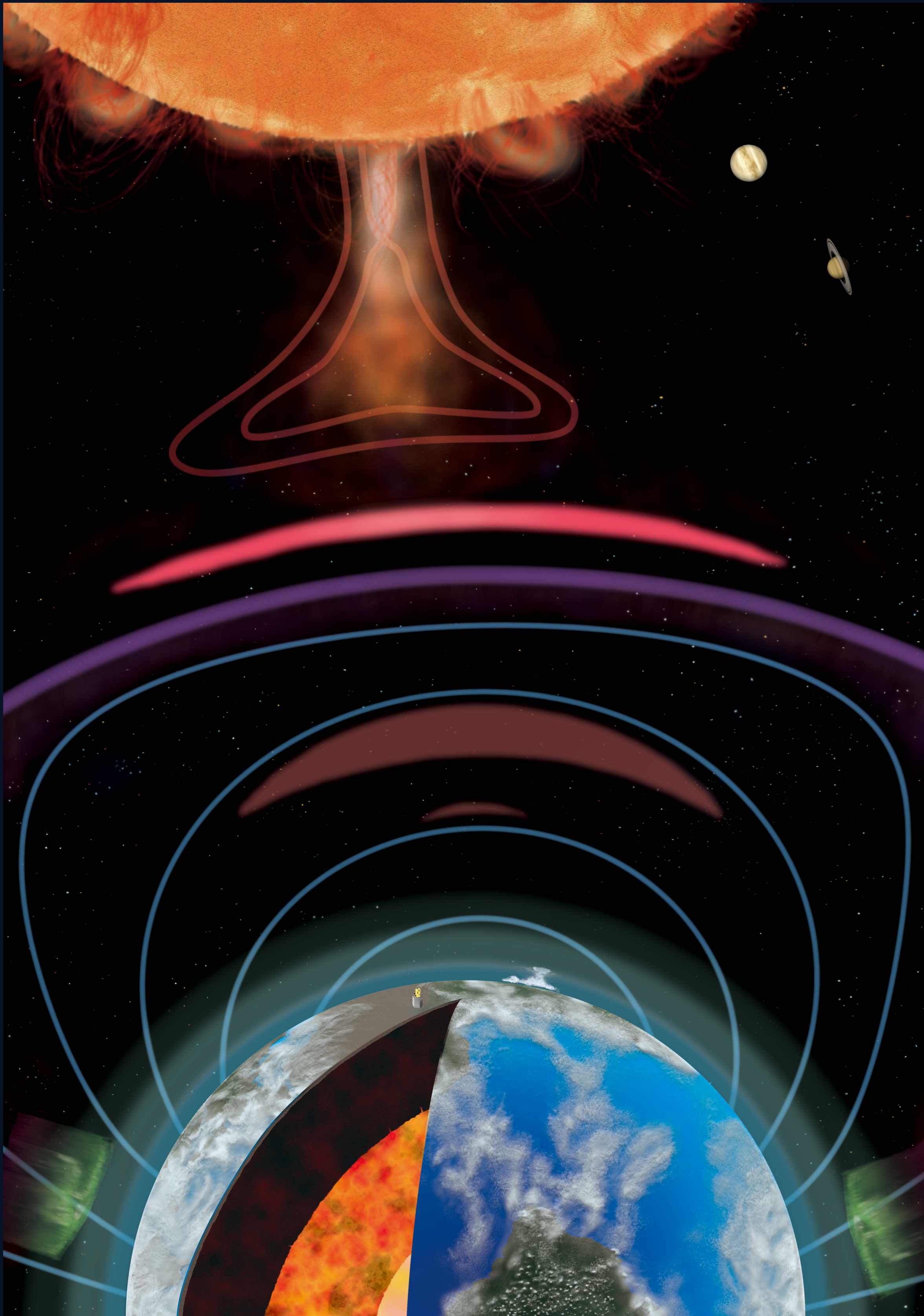




# International Association of Geomagnetism and Aeronomy

## Living on a Magnetic Planet



### NAVIGATION

Magnetic compass corrections and navigation; surveying and direction finding; orientation of satellites; guidance and detection systems; biomagnetism, animal navigations.

### HAZARDS

Space weather and the effects of magnetic storms; damage to satellite systems, disruption of satellite communications, GPS errors, varying orbital drag on satellites, radio communication fadeouts, induced currents in power grids, corrosion in pipelines; electric and magnetic monitoring of earthquakes and volcanoes.

### ENVIRONMENT

Global change; climate change past and present; solar variability and global temperature change; tracing of pollutants; dam siltation; coastal dynamics; salinity mapping; water resources.

### GEOLOGY

Tectonic reconstructions; continental drift; crustal structure and rock properties; stratigraphy; dating of rocks, ocean floor, and marine cores; archaeology.

### MINERAL & OIL EXPLORATION

Sub-surface mapping and modelling; stratigraphy; dating of sedimentary rocks and mineralisation; hydrocarbon maturation; directional drilling.

### HUMAN HEALTH

Effects of magnetic fields on humans; radiation exposure to astronauts and in high-flying aircraft; biomagnetic effects of electromagnetic radiation.

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IAGA is one of the eight Associations of the International Union of Geodesy and Geophysics (IUGG)

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