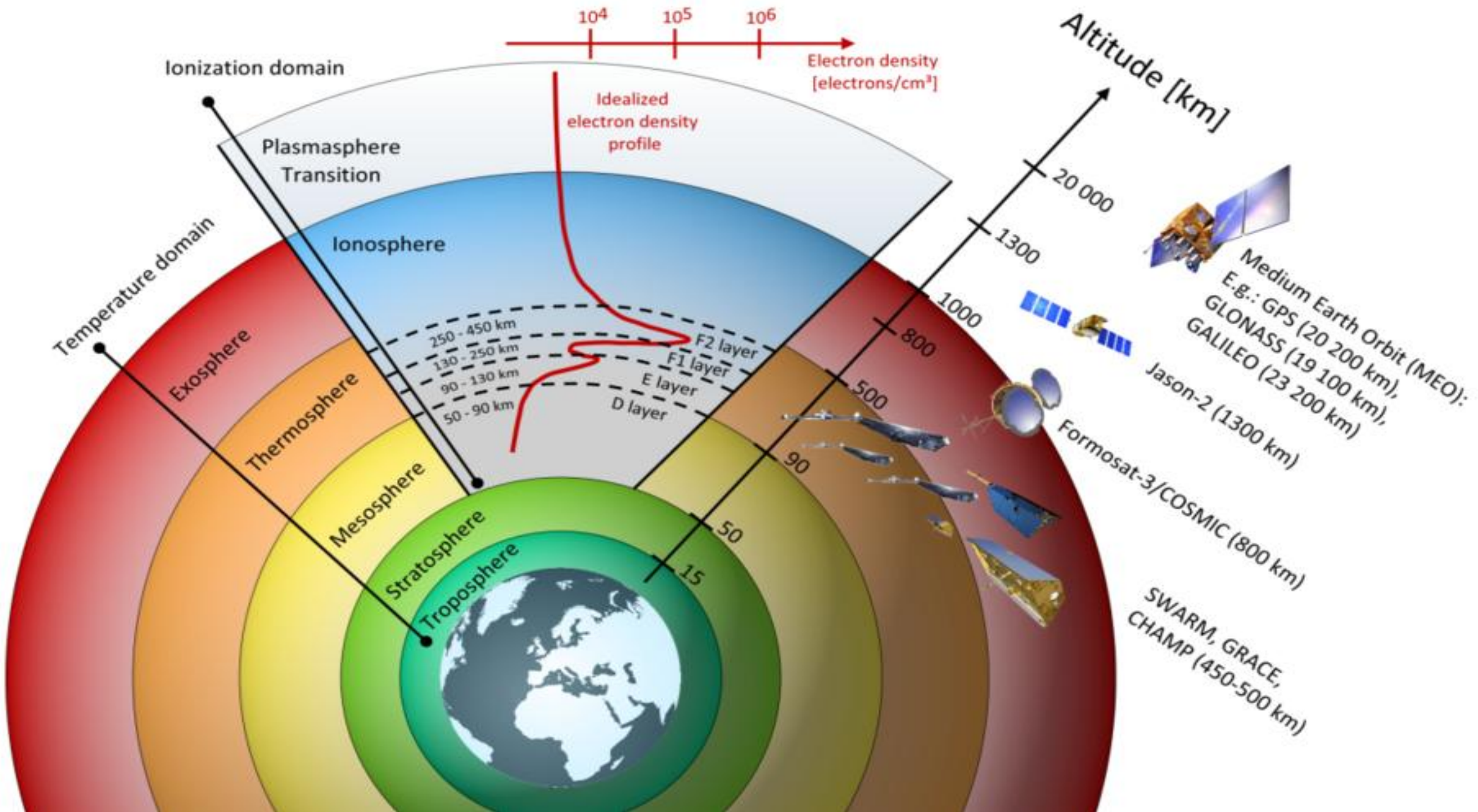


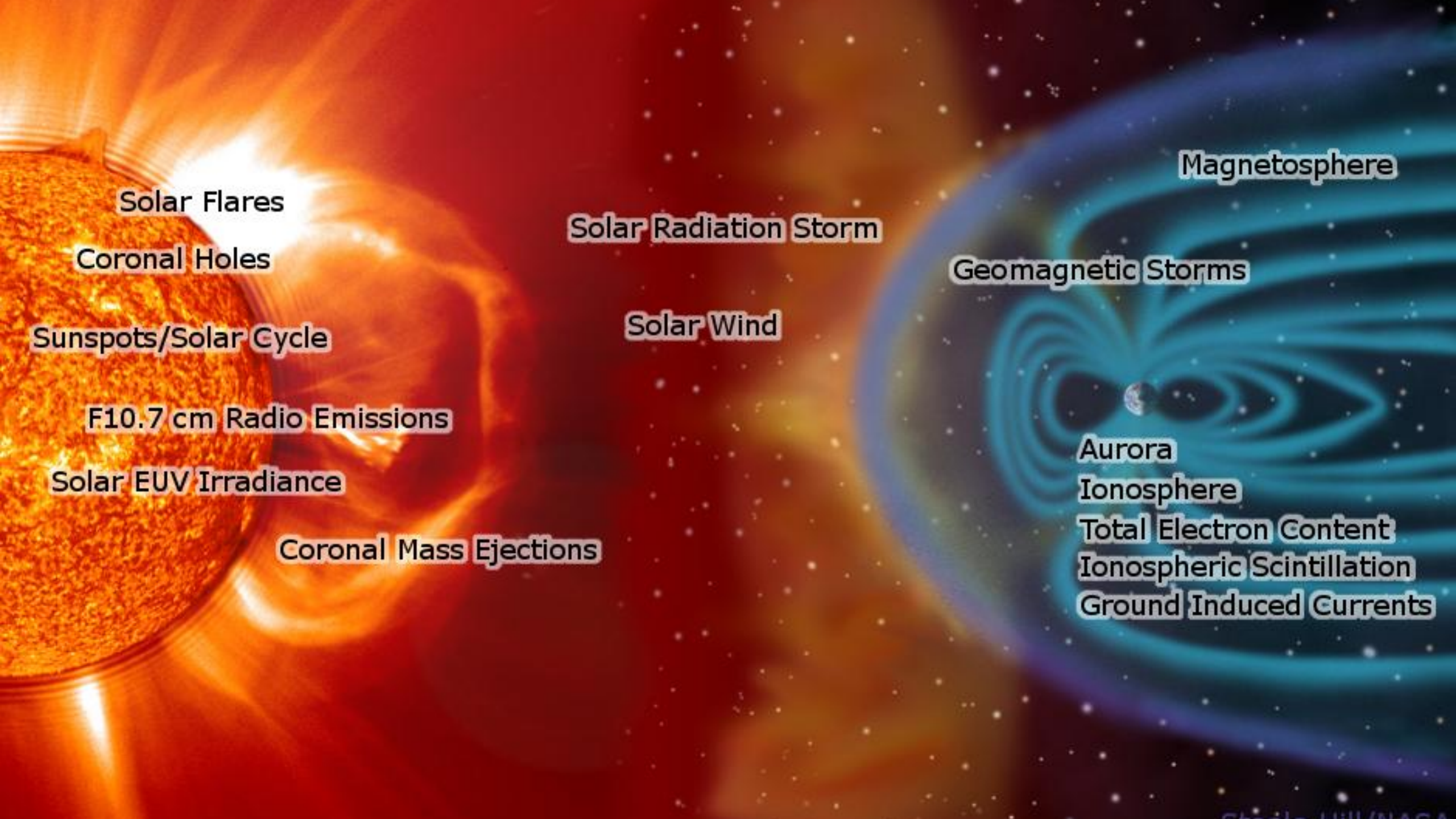
# **Investigating the Relationship between Solar Flares and Sudden Ionospheric Disturbances (SID) through VLF Signal Analysis**

## **Observing and Analyzing Sudden Ionospheric Disturbances**

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- Honors Research Process IDH-2911-27766
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# Research Question and Hypothesis





Solar Flares

Coronal Holes

Sunspots/Solar Cycle

F10.7 cm Radio Emissions

Solar EUV Irradiance

Coronal Mass Ejections

Solar Radiation Storm

Solar Wind

Magnetosphere

Geomagnetic Storms

Aurora

Ionosphere

Total Electron Content

Ionospheric Scintillation

Ground Induced Currents

