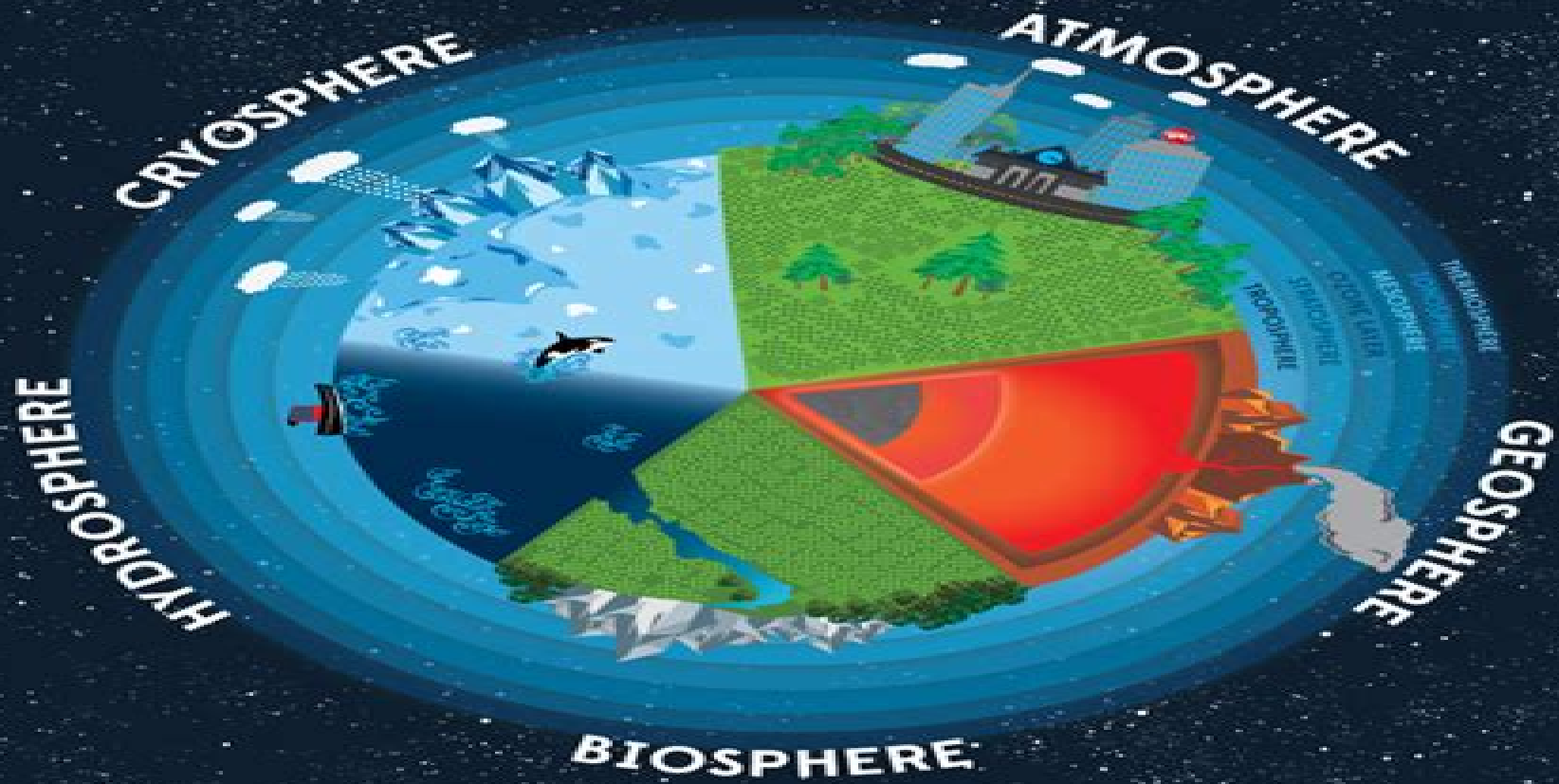


# SPHERES OF THE EARTH



## ATMOSPHERE

The atmosphere is the envelope of gases surrounding Earth that extends up to approximately 10,000 km above Earth's surface. The extreme edges of the atmosphere lie about 35,000 km above the surface. Atmospheric density decreases going further away from Earth's surface. Because of this, most (99%) of the atmosphere's mass lies within 50 km of Earth's surface.

## BIOSPHERE

The biosphere includes both oceanic and terrestrial (land) domains. On land there are a number of different, easily recognizable communities called biomes. Biomes essentially result from the interplay of regional climate, biotic (life) and abiotic (non-life) factors on underlying surfaces, and are usually defined by their climate vegetation.

## CRYOSPHERE

Derived from the Greek word *kryos*, meaning 'cold', the cryosphere encompasses those parts of the Earth system that are subject to temperatures below 0°C for at least part of the year. Its largest components, by far, are the ice sheets in Greenland and Antarctica, but the cryosphere also includes the GCHs (ice glaciers), sea ice, ice shelves, snow, rivers and lakes ice, frozen ground.

## GEOSPHERE

The geosphere is the outer, rigid shell of the solid Earth. It is composed of the entire crust (oceanic and continental) and the top rigid portion of the mantle lying above the partially molten, less rigid asthenosphere. Broken into major tectonic plates moving relative to one another over the asthenosphere, the geosphere consists of rocks weathered by decomposition, surface sections of sediment and soil.

## HYDROSPHERE

The hydrosphere consists of all the water girding Earth whether it be gas, liquid or solid. Most water (97%) resides in the oceans. The remainder is found in the ice sheets of Greenland and Antarctica (2%), and in freshwater lakes, rivers, ground water below the surface, and water vapor in the atmosphere (2%).

# Space Systems And Their Interactions With Earths Space Environment Progress In Astronautics And Aeronautics

**Siddappa N.Byrareddy**



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