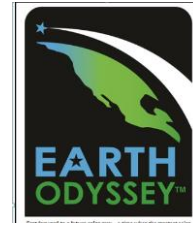




EARTH ODYSSEY JOB DESCRIPTIONS



Communications (COM): Provide communications support between astronauts and Mission Control; Manage the distribution of assignments during events and emergencies; Provide critical satellite launch information.

Satellite (SAT): Monitor the Earth Observation Satellite network; Build and test a remotely operated satellite to study Earth, installing critical equipment and components and retrieving data.

Cryosphere (CRYO): Study snow and ice cover, reflected sunlight and temperature to see how melting glaciers and sea ice affect sea level and water supply; Read maps and graphs.

Atmosphere (ATMO): Examine the effect of greenhouse gases on global temperature; Study precipitation, cloud cover and atmospheric aerosols.

Biosphere (BIO): Study the impact of Earth's vegetation and photosynthesis on CO₂ and climate change; Observe population parameters and their environmental effects.

Geosphere (GEO): Observe ways in which land use and vegetation affect the carbon cycle and the greenhouse effect; Use a robotic arm using joystick controls.

Ocean (OCEAN): Research how changes in temperature and CO₂ in the atmosphere affect biological and physical properties of the ocean; Read maps and graphs.

Space Weather (SPCW): Examine sun spot activity, solar flares and coronal mass ejections and their effects on the Earth, satellites and the spacecraft; Handle preparations for solar flare or space debris emergencies by determining location, severity and effects; Use a glovebox.

Energy (ENG): Study solar power, incoming and outgoing radiation from the sun, and how solar radiation affects the Earth's global temperature; Use a glovebox.

ALL STATIONS INVOLVE READING DIRECTIONS AND USING A COMPUTER TO RESEARCH INFORMATION TO SOLVE PROBLEMS.