

Space Academy

Space Academy is a gamified web platform celebrating the ISS's 25th anniversary, offering mission-based astronaut training with NASA API data, badges, and leaderboards—making space exploration engaging, educational, and inspiring for the next generation of STEM enthusiasts.

Team: The Hackanauts

TEAM MEMBERS

- Stephen Oginga
- Ouma Ouma
- Tomlee Abila
- Joseph Owino
- Teddy Siaka



The Challenge

ISS 25th Anniversary Challenge

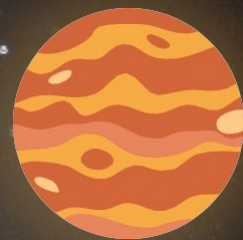


OBJECTIVES

Celebrate 25 years of ISS scientific achievements

Make space exploration accessible to everyone

Inspire next generation of space explorers



Our Solution

Interactive Space Experience Platform

Space Academy

Mission Control Dashboard

Exit

Naut

Astronaut Trainee

Total Points

1800

Current Streak

1 days

Cupola Mode

Observe Earth from the ISS window

NBL Training

Underwater spacewalk simulation

Missions

Cosmic View

Explore daily astronomy images from NASA

+100 pts

Completed

Asteroid Tracker

Monitor near-Earth asteroids and comets

+200 pts

Planet Watch

Track natural events across Earth

+150 pts

Solar Storm Monitor

Monitor space weather and solar activity

+150 pts

Completed

Earth Capture

View real-time images of Earth

+50 pts

Completed

Exoplanet Explorer

Discover planets beyond our solar system

+200 pts

Tech Researcher

Learn about NASA technology projects

+100 pts

Innovation Access

Explore NASA patents and innovations

+50 pts

Mars Recon

Explore Mars through rover cameras

+250 pts

Key Features

- Real-time ISS Tracking
- Cupola Earth View
- NBL Training Simulator

Your Badges (4/10)

Sky Watcher

View the Astronomy Picture of the Day

Asteroid Analyst

Track near-Earth objects

Earth Guardian

Monitor global events

Solar Sentinel

Track space weather

Blue Marble Observer

Capture real-time Earth photos

Exoplanet Discoverer

Explore distant worlds

Tech Innovator

Research NASA projects

Inventor

Explore NASA patents

Martian Scout

Explore Mars surface

Certified Spacewalker

Complete NBL training simulation

View Global Leaderboard

User Demo

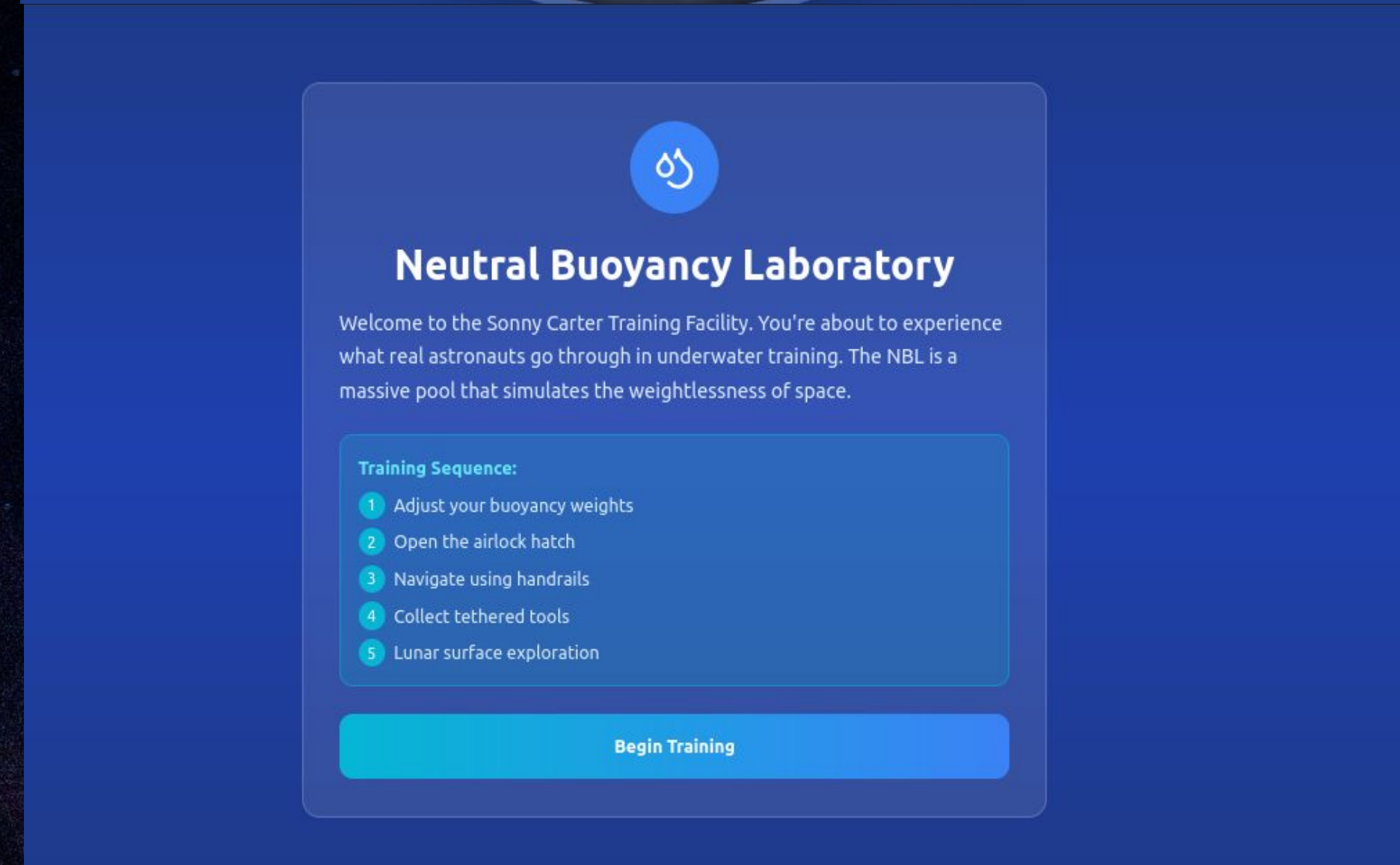
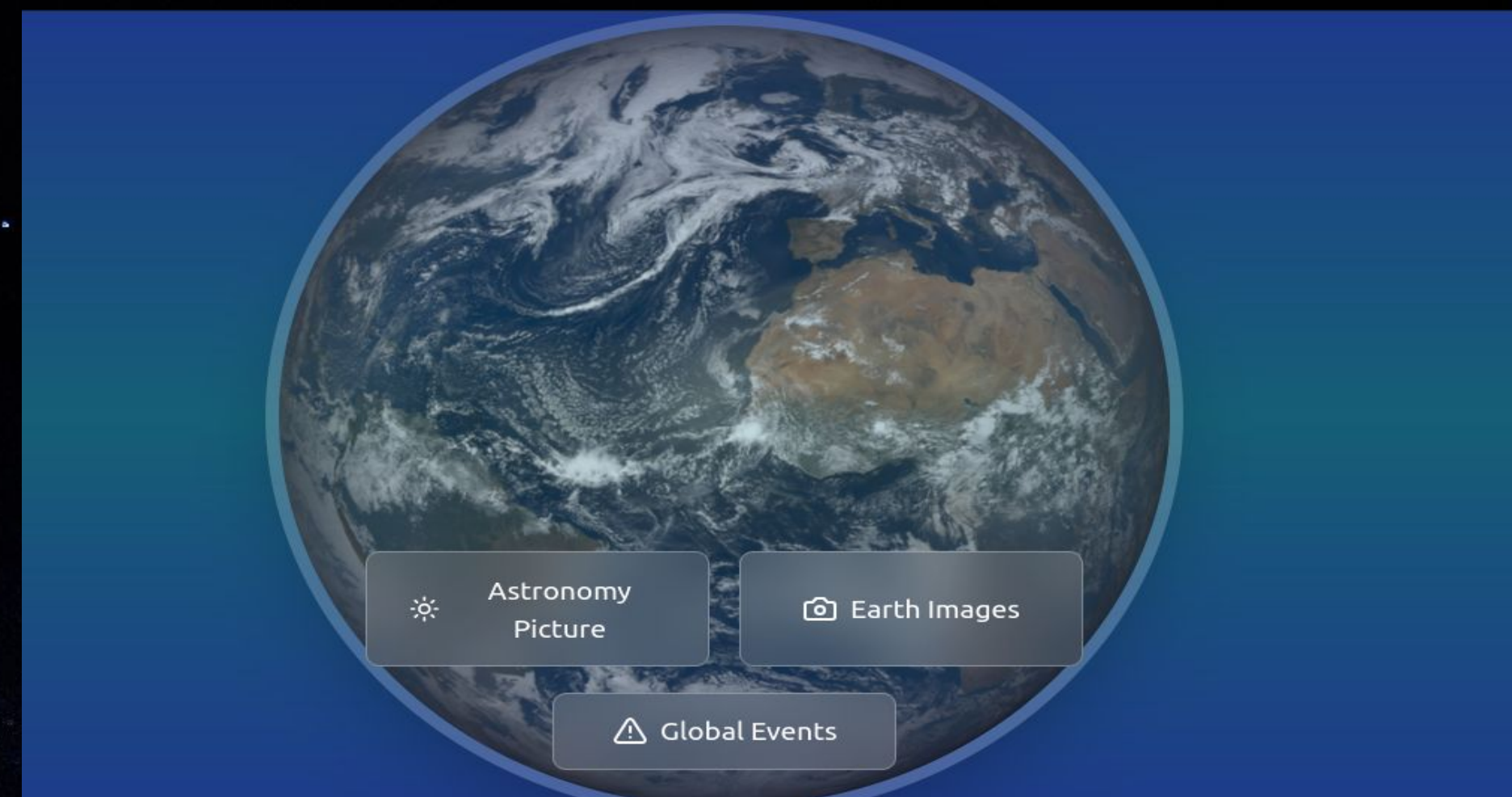
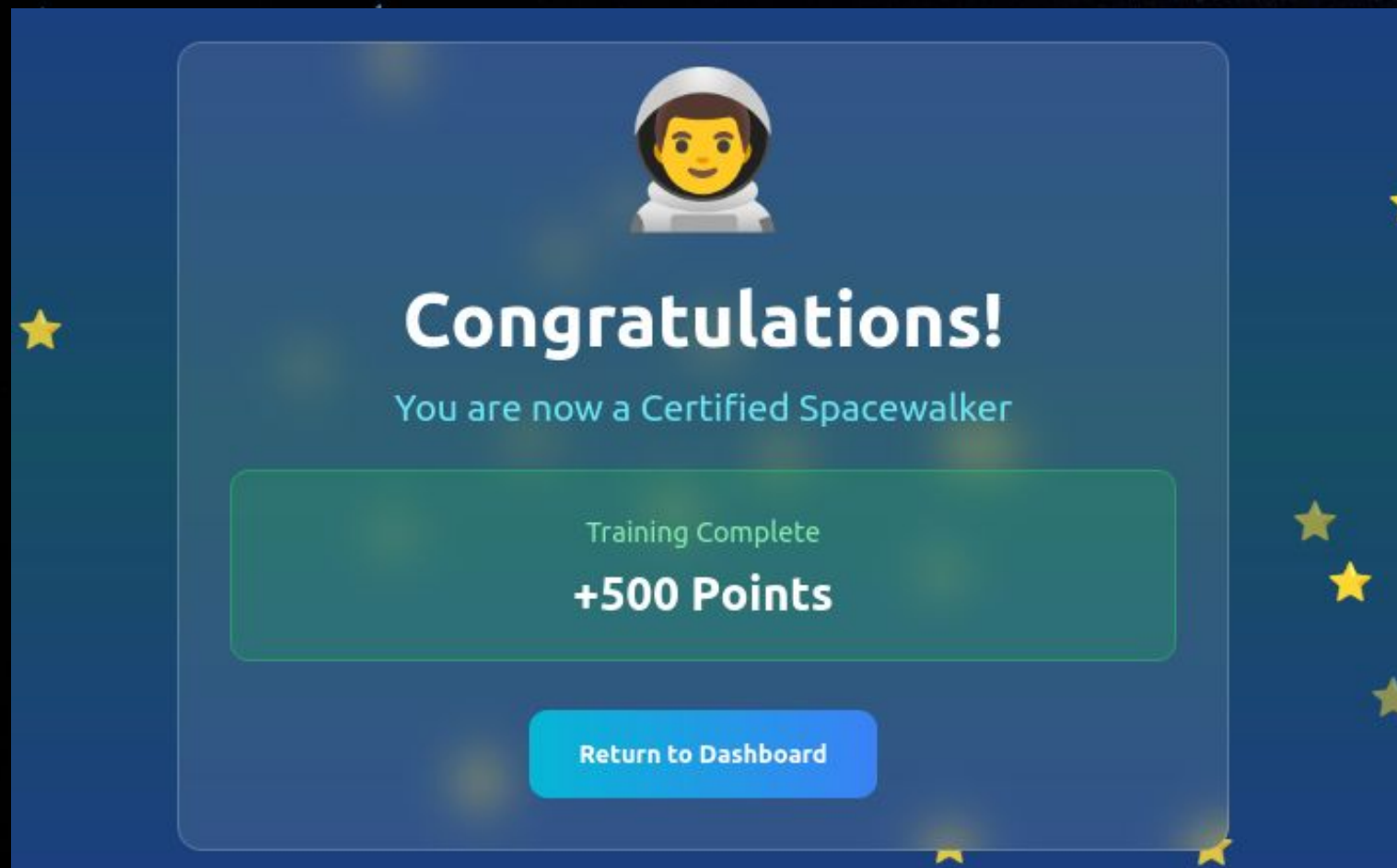
Experience Space Like an Astronaut

User Journey

Track ISS live position

View Earth from Cupola

Train in NBL simulator



NASA Open Data Integration

Powered by NASA Open Data

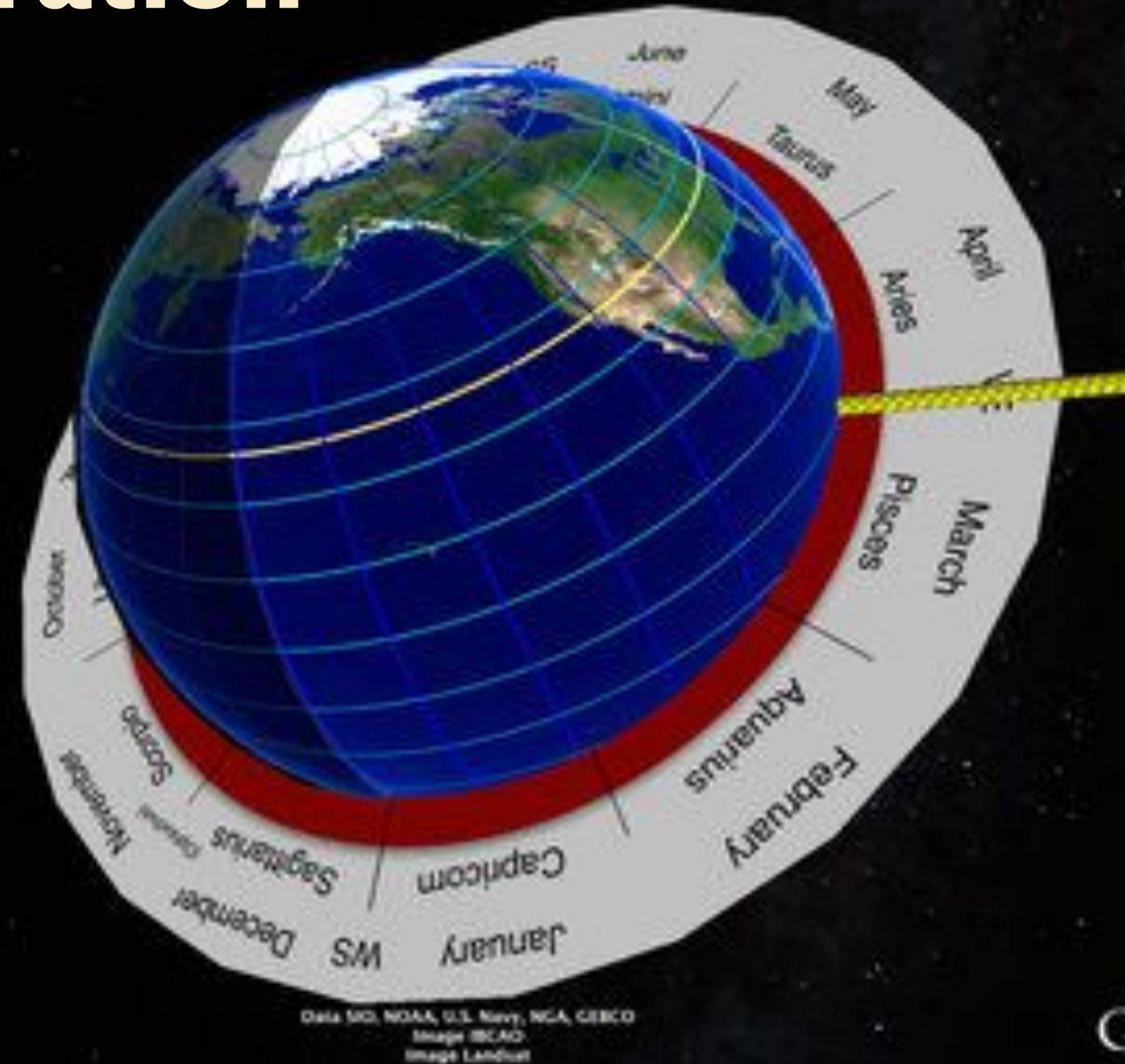
Data Sources

ISS Position API (Open Notify)

NASA Earth Imagery Library

Orbital Parameters & Mission Data

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Live Application

Space Academy in Action

Live Demo: <https://orbital25-rho.vercel.app/>

Github: <https://github.com/Orbital25/orbital25.git>



Impact and Access

Inspiring Space Exploration




Impact

Educational STEM tool

Celebrates ISS achievements

Accessible space experience

Access

 *Live: orbital25-rho.vercel.app*

 *Code: github.com/Orbital25/orbital25*