Coral Reef Mission

The Big Picture
Coral Reef Mission

Levels One and Two

Planetary Coral Reef Foundation Sponsor

- MIT Technical Manager
- Business Manager

Fund Raising

- Science Principal Investigator

MIT Mission Manager

PCRF Prime Mission Operator
Coral Reef Mission

MIT Tasks

MIT Mission Manager

Mission Design & Engineering

Purchasing & Subcontracts
- Spacecraft
- Launcher
- Mission Operations

Vendor A
Spacecraft Bus
- Payload Accommodation
- Power
- Attitude Determination
- C&DH
- Attitude Control
- RF Systems
- Thermal Control
- Mass Memory

Vendor B
Launch
- Observatory Integration
- Range Accommodation
- On-Orbit Delivery

Vendor C
Mission Operations
- Tracking Network
- Orbit Maintenance
- Command Loads
- Performance Monitoring
Coral Reef Mission

PCRF-Prime Tasks

- Science Operations
  - Data Archives
  - Target Planning
  - Weather Monitoring
  - Quick Look Analysis

- Data Analysis
  - Mapping
  - Trends
  - Calibration
  - Guest Observers

- Ground Truth
  - Fixed Reference Sites
  - External Inputs
  - Campaigns

- Education & Public Outreach
  - Science Center Programs
  - Fixed Site Programs
  - Traveling Exhibits
  - Web Programs