



Explorers Program Overview

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Explorers Program Overview (1 of 2)



- NASA's oldest, continuous program
 - Over 100 successful missions since 1958
- Program Objective—Frequent flight opportunities for world-class scientific investigations
- Uncoupled program of missions with unique science capabilities supporting heliophysics and astrophysics science goals



Explorers Program Overview (2 of 2)



- Mission class characterized by size, schedule, and budget cost caps
 - APEX – Astrophysics Probe Explorer (new mission category)
 - MIDEX
 - SMEX
 - Mission of Opportunity
- Missions solicited through Announcement of Opportunity
- Missions developed in Principal Investigator mode
- Mission oversight provided by the Explorers Program Office at GSFC

Explorers Missions

MIDEX



SMEX



UNEX • MO • INTERNATIONALS

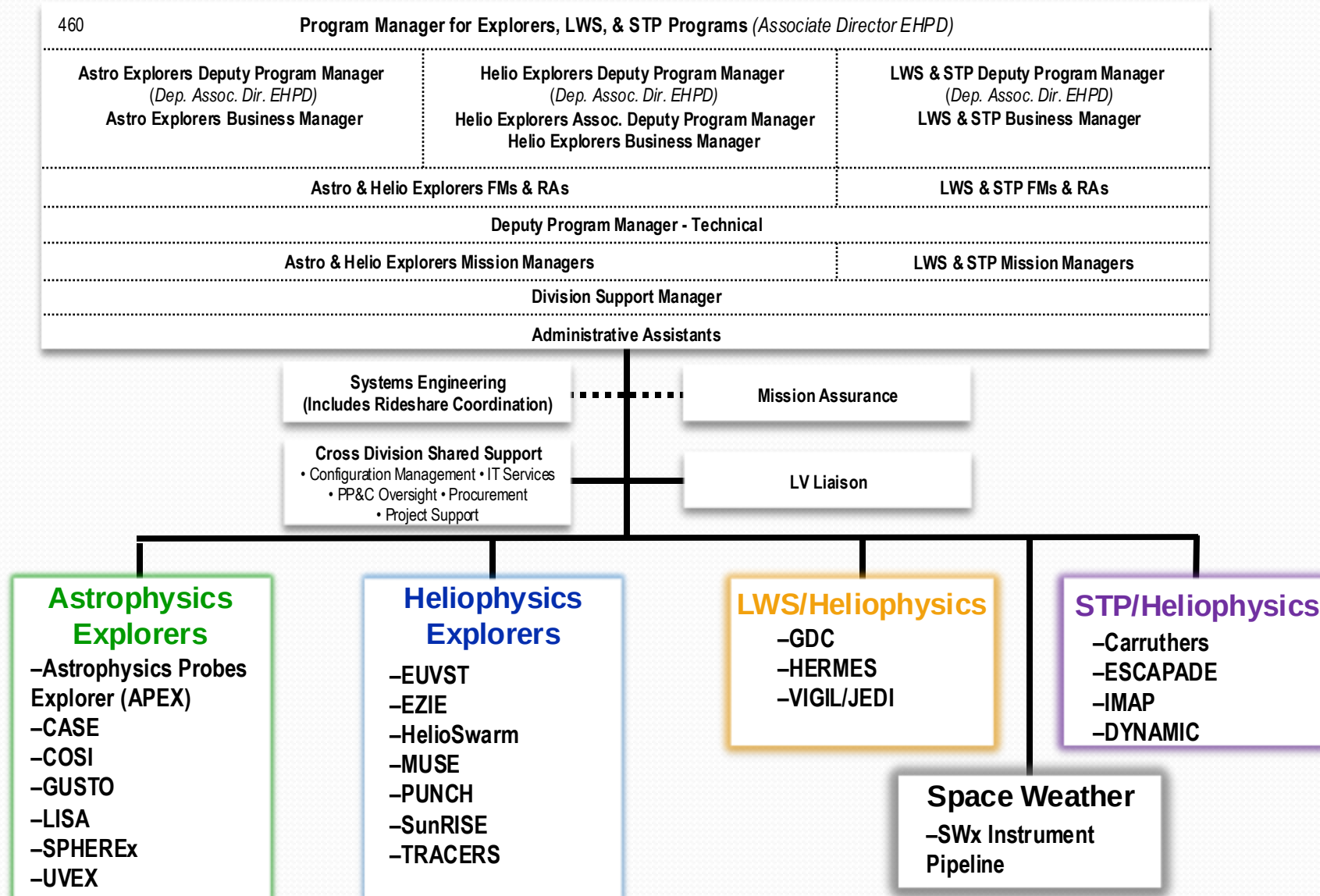


 Astrophysics Missions	 Current Astrophysics Missions	 Heliophysics Missions	 Current Heliophysics Missions
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GSFC Explorers & Heliophysics Projects Division (EHPD)

Organization – Code 460





Explorers Program Office

Roles/Responsibilities (1 of 2)



- Support the Principal Investigator in achieving mission success and ensure that the mission complies with all applicable government and NASA-specific policies and regulations.
- Provide comprehensive oversight of the mission development process by conducting ongoing assessments of the mission's cost, schedule and technical progress.
- Provide mission status to NASA GSFC and HQ through monthly reviews, weekly reporting and timely notification of problems & resolution plans.



Explorers Program Office

Roles/Responsibilities (2 of 2)



- Coordinate the provision of certain services and equipment as required, such as space communication support, launch services, etc.
- Provide recommendations for the chair and membership of the Standing Review Board.
- Appoint a Mission Manager for full missions not managed by GSFC and all missions of opportunity.
- Allocate funding to PI-led Phase A Concept Study teams, remain neutral, unbiased and attend site visit meetings as an observer.



Mission Manager Roles/Responsibilities



- The Mission Manager will:
 - Serve as the Goddard point of contact and the Contracting Officer's Representative or Task Monitor, as required.
 - Lead the GSFC engineering, mission assurance and business teams in obtaining detailed cost, schedule and technical insight to facilitate reporting to GSFC and HQ.
 - Provide access to the Goddard services and support as requested (e.g., EEE parts lab, board coupon testing, materials lab, SMA services and engineering services).
 - Ensure that adequate government resources are applied to the mission as required.



Explorers Program Team



- Mission Manager
 - Systems Engineer
 - Instrument Systems Engineer
 - Mission Assurance Lead
 - Senior Resource Analyst
 - Scheduling/Planning
 - Configuration Management
- Other Program Support Available:
 - Instrument Systems
 - Electrical Systems
 - Mechanical Systems
 - Quality Engineering
 - System Safety
 - EVM Lead



Available Goddard Services



- Available GSFC services include:
 - EEE parts testing
 - Radiation effects analysis/testing
 - Materials engineering support (includes board coupon testing)
 - Thermal coatings engineering support
 - Discipline engineering support
 - Space communications support
 - Instrument detector systems support
 - Tiger Team and Anomaly Review Team Support