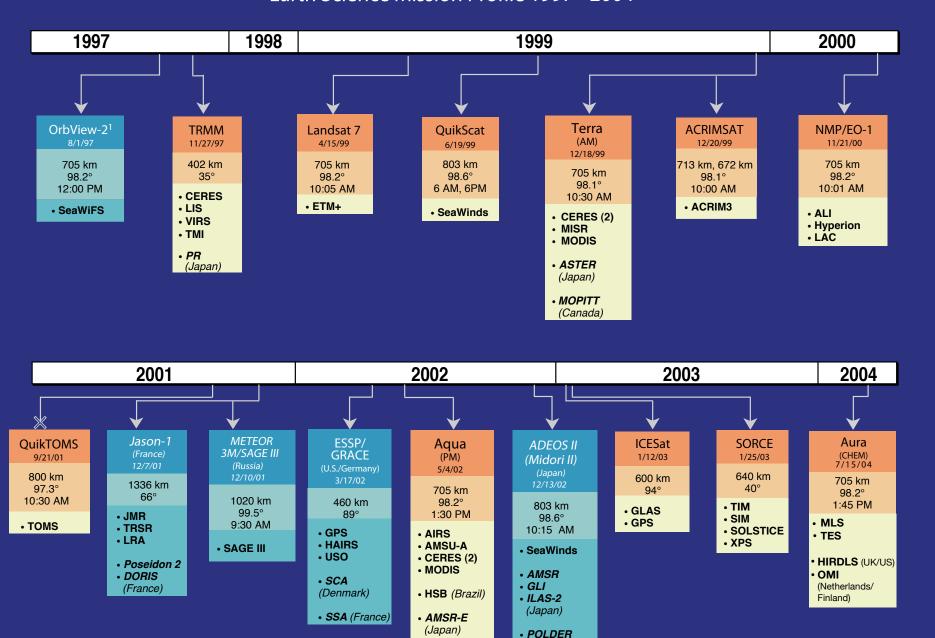
Earth Science Mission Profile 1997 - 2004



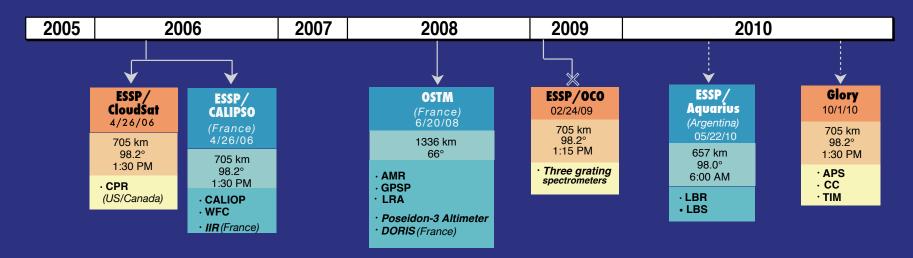
Spacecraft not provided or is partly provided by NASA

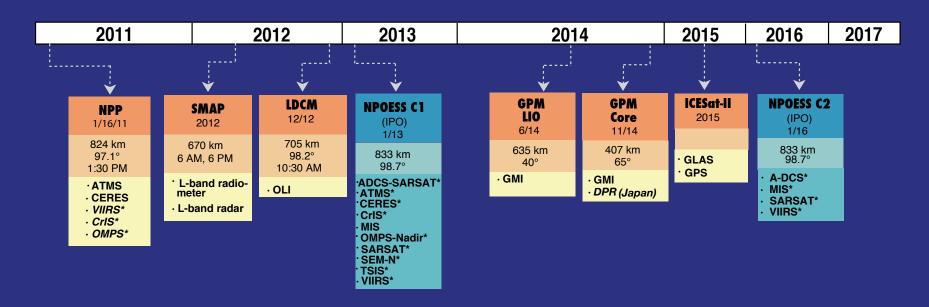
¹ OrbView-2 is not provided or operated by NASA but is a data buy

(France)

Earth Science Mission Profile

2005 - 2017





Mission Profile 1997 – 2004 Acronym List

ACRIMSAT

• ACRIM3 - Active Cavity Radiometer Irradiance Monitor

ADEOS II (Midori II)

- AMSR Advanced Microwave Scanning Radiometer
- GLI Global Imager
- ILAS-2 Improved Limb Atmospheric Spectrometer 2
- POLDER Polarization and Directionality of the Earth's Reflectances

Aqua

- AIRS Atmospheric Infrared Sounder
- AMSU-A Advanced Microwave Sounding Unit-A
- CERES Clouds and the Earth's Radiant Energy System
- MODIS Moderate Resolution Imaging Spectroradiometer
- HSB Humidity Sounder for Brazil
- AMSR-E Advanced Microwave Scanning Radiometer for EOS

Aura

- HIRDLS High Resolution Dynamics Limb Sounder
- MLS Microwave Limb Sounder
- **OMI** Ozone Monitoring Instrument
- TES Tropospheric Emission Spectrometer

ESSP/GRACE

Earth System Science Pathfinder/Gravity Recovery And Climate Experiment

- GPS Black-Jack Global Positioning System Receiver
- HAIRS High-Accuracy Inter-satellite Ranging System
- SCA Star Camera Assembly
- SSA SuperStar Accelerometer
- USO Ultra Stable Oscillator

ICESat

- GLAS Geoscience Laser Altimeter System
- GPS Global Positioning System

Jason-1

- JMR Jason Microwave Radiometer
- TRSR Turbo Rogue Space Receiver
- LRA Laser Retroreflector Array
- DORIS Doppler Orbitography and Radiopositioning Integrated by Satellite
- Poseidon-2 Altimeter

Landsat 7

• ETM+ - Enhanced Thematic Mapper Plus

METEOR 3M/SAGE III

• SAGE III - Stratospheric Aerosol and Gas Experiment III

NMP/EO-1

New Millennium Program/Earth Observing-1

- ALI Advanced Land Imager
- Hyperion Hyperspectral Instrument
- LAC Linear Etalon Imaging Spectral Array (LEISA) Atmospheric Corrector

OrbView-2

• SeaWiFS - Sea-viewing Wide Field-of-view Sensor

QuikScat

Quick Scatterometer

SeaWinds

QuikTOMS

• TOMS - Total Ozone Mapping Spectrometer

SORCE

Solar Radiation and Climate Experiment

- TIM Total Irradiance Monitor
- SIM Spectral Irradiance Monitor
- **SOLSTICE** Solar Stellar Irradiance Comparison Experiment
- XPS XUV Photometer System

Terra

- ASTER Advanced Spaceborne Thermal Emission and Reflection Radiometer
- CERES Clouds and the Earth's Radiant Energy System
- MISR Multi-angle Imaging Spectroradiometer
- MODIS Moderate Resolution Imaging Spectroradiometer
- MOPITT Measurements of Pollution in the Troposphere

Mission Profile 1997 - 2004 Acronym List (cont.)

TRMM

Tropical Rainfall Measuring Mission

- CERES Clouds and the Earth's Radiant Energy System
- LIS Lightning Imaging Sensor
- VIRS Visible and Infrared Scanner
- TMI TRMM Microwave Imager
- PR Precipitation Radar

Mission Profile 2005 – 2017 Acronym List

ESSP/Aquarius

- LBR L-Band Radiometer
- LBS L-Band Scatterometer

ESSP/CALIPSO

Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations

- CALIOP Cloud Aerosol Lidar with Orthogonal Polarization
- IIR Imaging Infrared Radiometer
- WFC Wide Field Camera
- Three high-resolution grating spectrometers

ESSP/Cloudsat

• CPR - Cloud Profiling Radar

ESSP/OCO

Orbiting Carbon Observatory

Glory

- APS Aerosol Polarimetry Sensor
- TIM Total Irradiance Monitor
- CC Cloud Camera

GPM Core Observatory

Global Precipitation Measurement

- DPR Dual Frequency Precipitation Radar
- GMI GPM Microwave Imager

GPM Low-Inclination Observatory

Global Precipitation Measurement

• GMI - GPM Microwave Imager

ICESat II

- GLAS Geoscience Laser Altimeter System
- GPS Global Positioning System

LDCM

Landsat Data Continuity Mission

• OLI - Operational Land Imager

OSTM

Ocean Surface Topography Mission

- DORIS Doppler Orbitography and Radiopositioning Integrated by Satellite
- TRSR TurboRogue Space Receiver
- LRA Laser Retroreflector Array
- Poseidon-3 Altimeter
- AMR Advanced Microwave Radiometer
- GPSP Global Positioning System Payload

NPOESS C1

National Polar-orbiting Operational Environmental Satellite System

- ADCS-SARSAT Advanced Data Collection System/Search and Rescue Satellite-Aided Tracking
- ATMS Advanced Technology Microwave Sounder
- CERES Clouds and Earth's Radiant Energy System
- CrIS Cross-Track Infrared Sounder
- MIS Microwave Imager/Sounder
- OMPS-Nadir Ozone Mapping and Profiler Suite
- SARSAT Search and Rescue Satellite Aided Tracking
- SEM-N Space Environment Monitor-NPOESS
- TSIS Total and Spectral Solar Irradiance Sensor
- VIIRS Visible/Infrared Imager/Radiometer Suite

NPOESS C2

National Polar-orbiting Operational Environmental Satellite System

- A-DCS
- MIS
- SARSAT Search and Rescue Satellite Aided Tracking
- VIIRS Visible/Infrared Imager/Radiometer Suite

NPP

NPOESS Preparatory Project

- ATMS Advanced Technology Microwave Sounder
- CERES Clouds and the Earth's Radiant Energy System
- CrIS Cross-Track Infrared Sounder
- OMPS Ozone Mapping and Profiler Suite
- VIIRS Visible/Infrared Imager/Radiometer Suite

SMAP

Soil Moisture Active Passive

- L-Band radiometer
- L-Band radar