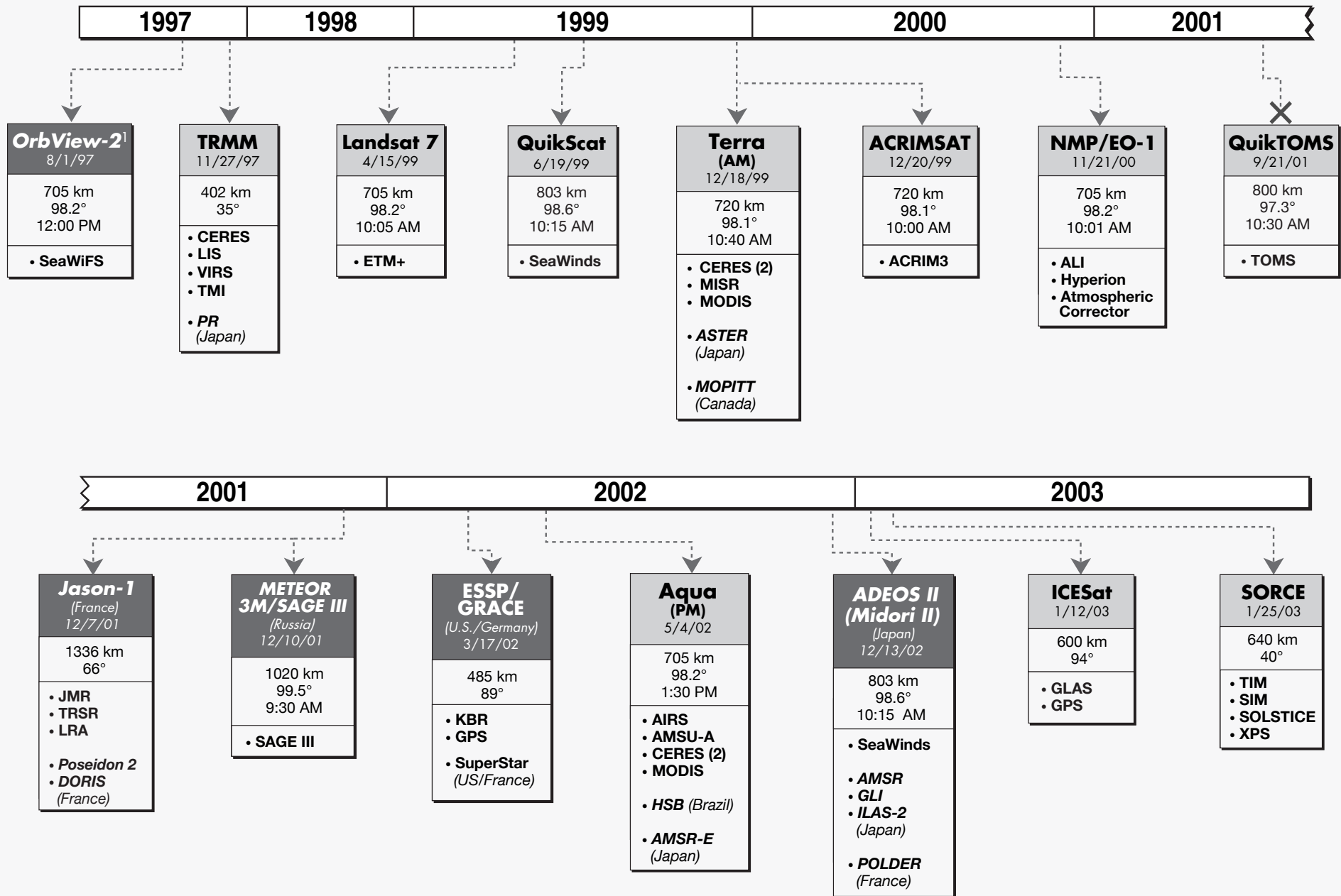


Earth Science Mission Profile 1997 - 2003

Revised: 29 June 2004



■ Spacecraft not provided or is partly provided by NASA

Items in italics not funded by NASA

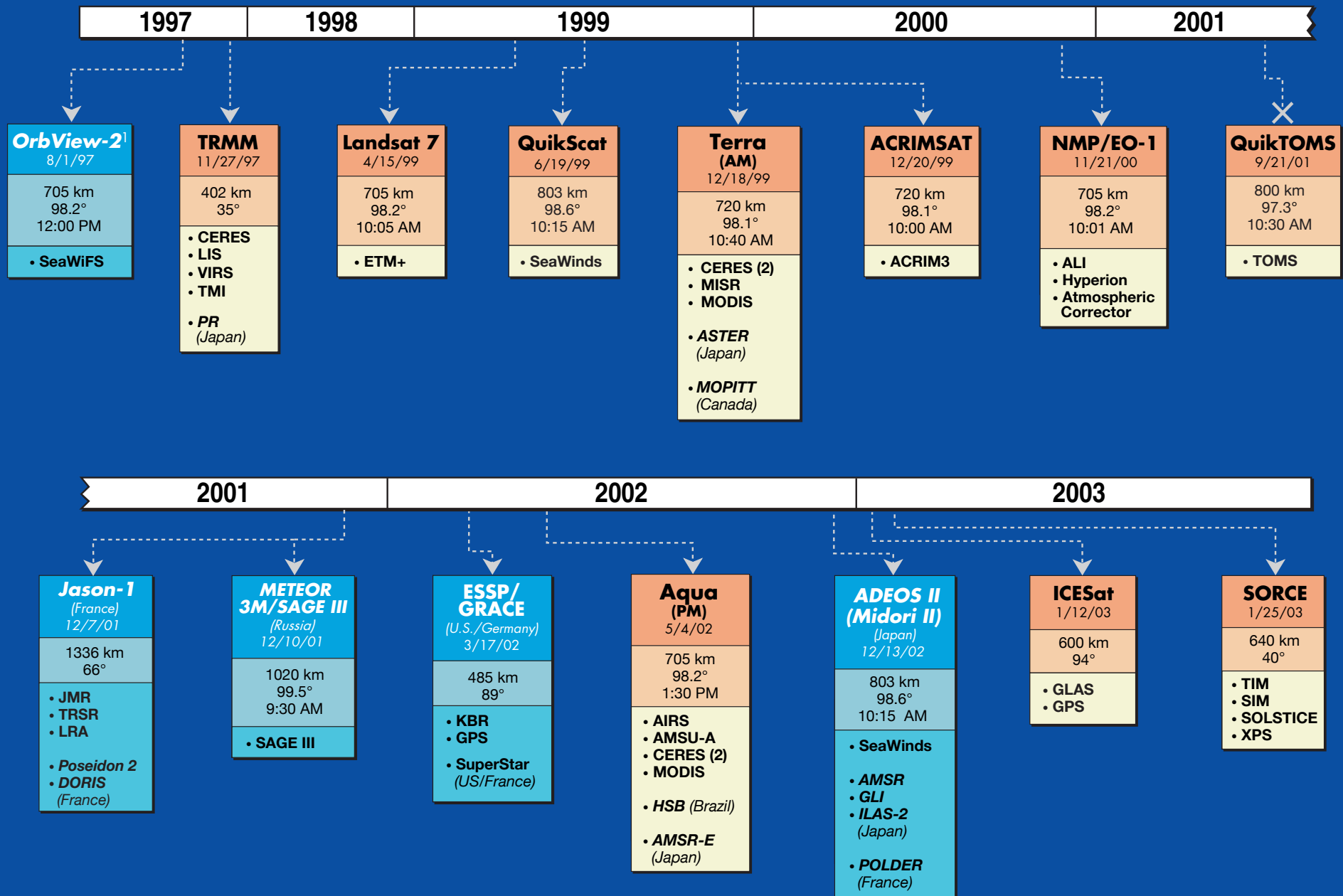
⋯ Currently in orbit

✗ Launch Failure

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

Earth Science Mission Profile 1997 - 2003

Revised: 29 June 2004



■ Spacecraft not provided or is partly provided by NASA

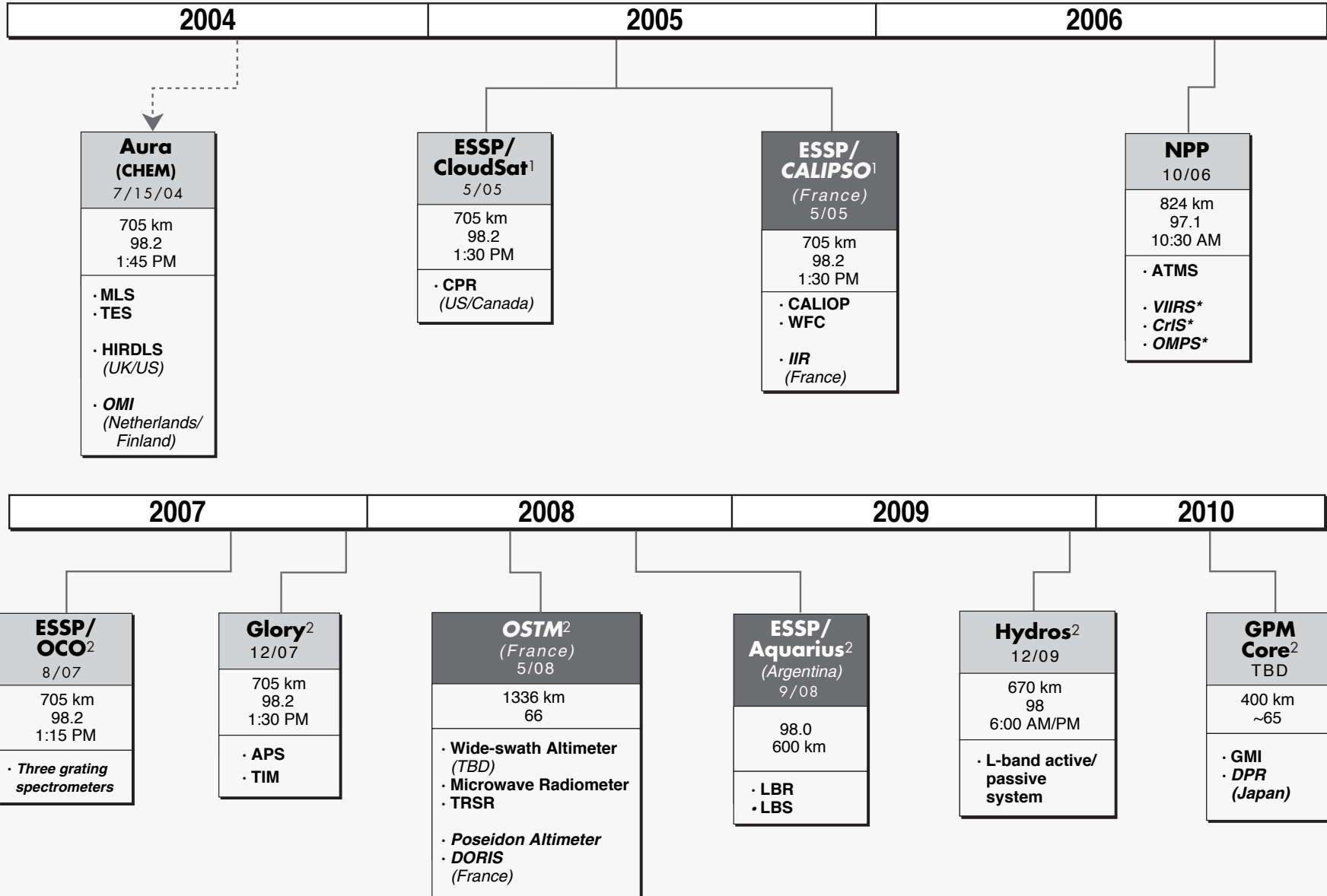
Items in italics not funded by NASA

..... Currently in orbit

✗ Launch Failure

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

Earth Science Mission Profile 2004 - 2010



■ Spacecraft not provided by NASA

▼ Currently in orbit

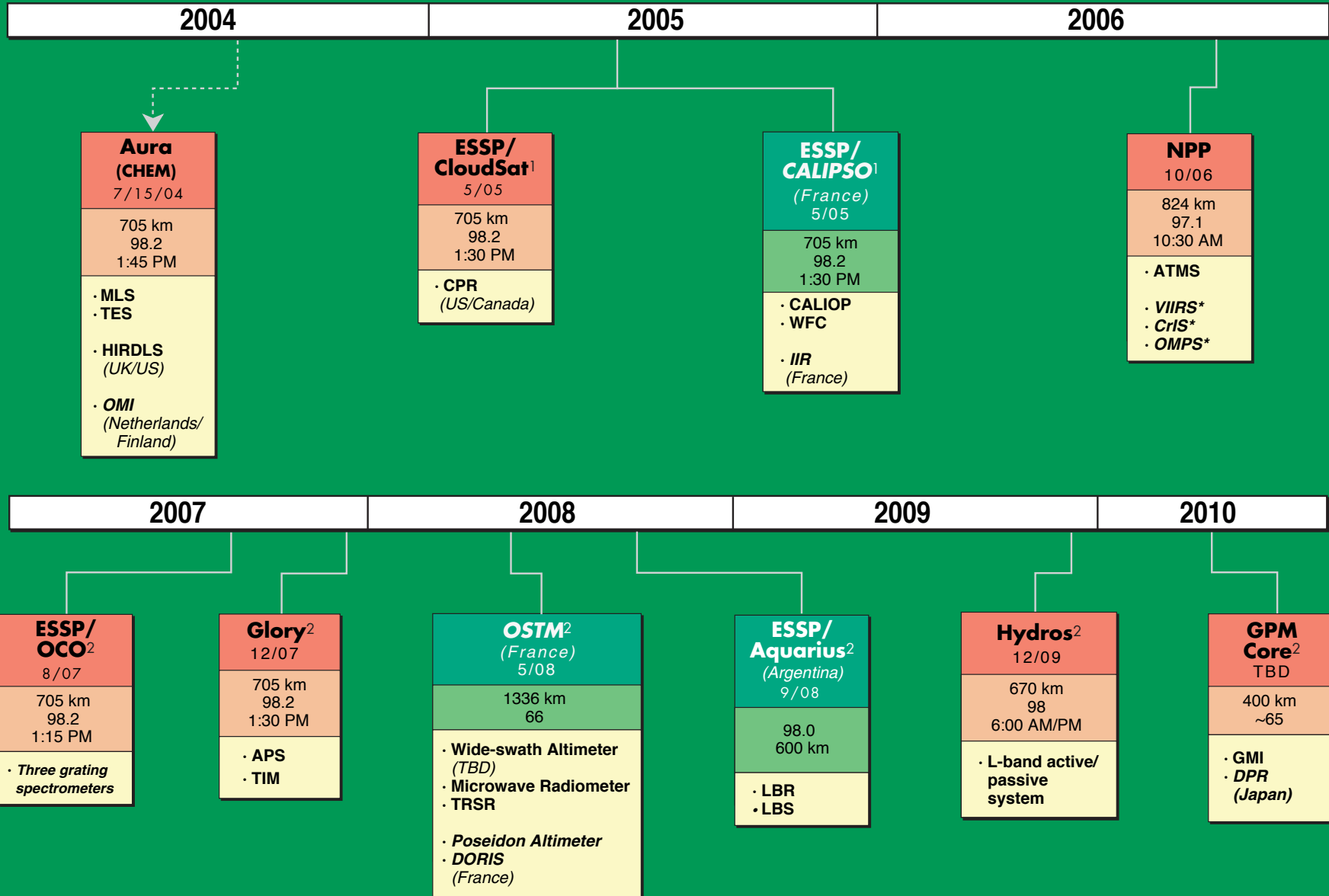
Items in italics not funded by NASA

¹ These satellites will share the same launch vehicle

² Formulation Phase. Information is preliminary and will be finalized by Mission Confirmation Review (MCR)

* Instrument provided jointly with the Integrated Program Office (IPO)

Earth Science Mission Profile 2004 - 2010



■ Spacecraft not provided by NASA

▼ Currently in orbit

Items in italics not funded by NASA

¹ These satellites will share the same launch vehicle

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Mission Profile 1997 – 2003 Acronym List

ACRIMSAT

- **ACRIM3** - Active Cavity Radiometer Irradiance Monitor

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

ESSP/GRACE

Earth System Science Pathfinder/Gravity Recovery And Climate Experiment

- **KBR** - K-Band Ranging
- **GPS** - Global Positioning System

ICESat

- **GLAS** - Geoscience Laser Altimeter System
- **GPS** - Global Positioning System

Jason-1

- **JMR** - Jason Microwave Radiometer
- **TRSR** - TurboRogue Space Receiver
- **LRA** - Laser Retroreflector Array
- **DORIS** - Doppler Orbitography and Radiopositioning Integrated by Satellite

Landsat 7

- **ETM+** - Enhanced Thematic Mapper Plus

METEOR 3M/SAGE

- **SAGE** - Stratospheric Aerosol and Gas Experiment

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 Reflectance

NMP/EO-1

New Millennium Program/Earth Observing-1

- **ALI** - Advanced Land Imager

OrbView-2

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

QuikScat

Quick Scatterometer

QuikTOMS

- **TOMS** - Total Ozone Mapping Spectrometer

SORCE

Solar Radiation and Climate Experiment

- **TIM** - Total Irradiance Monitor
- **SIM** - Spectral Irradiance Monitor
- **SOLSTICE** - Solar StellarIrradiance 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

TRMM

Tropical Rainfall Measuring Mission

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

Mission Profile 2004 – 2010 Acronym List

Aura

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

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** - IR Imager
- **WFC** - Wide Field Camera

ESSP/Cloudsat

- **CPR** - Cloud Profiling Radar

ESSP/OCO

Orbiting Carbon Observatory

Glory

- **APS** - Airborne Polarimeter Sensor
- **TIM** - Total Irradiance Monitor

GPM/Core

Global Precipitation Measurement

- **DPR** - Dual frequency Precipitation Radar
- **GMI** - GPM Microwave Imager

Hydros

Hydrosphere State Mission

NPP

NPOESS Preparatory Project

- **ATMS** - Advanced Technology Microwave Sounder
- **CrIS** - Cross-Track Infrared Sounder
- **OMPS** - Ozone Mapping and Profiler Suite
- **VIIRS** - Visible/Infrared Imager/Radiometer Suite

OSTM

Ocean Surface Topography Mission

- **DORIS** - Doppler Orbitography and Radiopositioning Integrated by Satellite
- **TRSR** - TurboRogue Space Receiver