

## **Mission Data Sources**

Science Mission Directorate (SMD) submit; 2-6-08  
Exploration Systems Mission Directorate (ESMD) submit; 1-25-08  
Space Operations Mission Directorate (SOMD) submit; 1-31-08  
Aeronautics Research Mission Directorate (ARMD) response; 1-29-08

## **Mission Acronyms & Definitions**

AA-x	Assent Abort (test sub-orbital flights) (x-mission #)
Altair-x	Lunar descent stage aka: LSAM = Lunar Surface Access Module (x-mission #)
Ares 1	Crew Launch Vehicle (aka CLV)
Ares V	Cargo Launch Vehicle (aka CaLV)
Astro-X	Assigned or competed mission from Astrophysics Decadal Review priorities in 2010
X-Air	Estimated number of Aircraft Earth Science Flights
X-Bal	Estimated number of Scientific Balloon Flights
BARREL	Balloon Array for RBSP Relativistic Electron Losses (Two balloon campaigns of 20 flights each)
CaLV	Cargo Launch Vehicle (aka CaLV)
CCC	Command & Control Center
Chndraayn1	Discovery MoO instrument to be flown on Indian satellite Chandrayaan [ELV launch]
CINDI	Coupled Ion Neutral Dynamics Investigation [Air Force launch]
CLARREO	Climate Absolute Radiance and Reflectivity Observatory (see ESDS-x below)
CLV	Crew Launch Vehicle (aka Ares I)
dB	decibels
DESDynI	Deformation, Ecosystem Structure and Dynamics of Ice (see ESDS-x below)
Disc-xx	Discovery Mission (xx- mission #)
EP-x	Einstein Probes (x- mission #)
ESDS-x	Earth Science Decadal Survey Mission (x- mission #) Likely CLARREO and DESDynI first, order TBD
ExoMars	ESA Mars lander mission (US will provide instrument) [ESA launch]
ExoP-Lx	Exo-Planet Large class mission (x- mission #) (Flagship missions to be defined by Decadal Survey)
ExoP-Mx	Exo-Planet Medium class mission (x- mission #)
GLAST	Gamma-ray Large Area Space Telescope
Glory	An advanced polarimeter mission; to measure aerosols as causes of climate change
GOES-x	Geostationary Operational Environmental Satellite (x- mission #)
GPM Const	Global Precipitation Monitor Constellation [JAXA HIIA launch]
GPM Core	Global Precipitation Mission Core [JAXA HIIA launch]
Herschel	Herschel Space Observatory (Far Infra-Red/submillimetric Space Telescope) [ESA launch]
HIFiRE	Hypersonic International Flight Research and Experimentation
HMMES	High Mass Mars Entry Systems
HST-D	Hubble Space Telescope Deorbit
HST-S4	Hubble Space Telescope Servicing Mission #4
HyBOLT/SOAREX	Hypersonic Boundary Layer Transition/Suborbital Aerodynamics Reentry Experiments
IBEX	Interstellar Boundary Explorer (SMEX-10)
IceSat II	Follow-on to highly successful IceSat mission to measure Earth's ice levels
ILN-x	International Lunar Network (mini-lander) (x- mission #)
ISS-x	Space Shuttle flight to the International Space Station (x- mission #)
ITSP	Ionosphere-Thermosphere Storm Probes
JDEM	Joint Dark Energy Mission
JUNO	Jupiter Near-polar Orbiter (New Frontiers #2)
JWST	James Webb Space Telescope [ESA Ariane 5 launch]
Kepler	Kepler Observatory
LADEE	Lunar Atmosphere Dust Environment Explorer
LCROSS	Lunar Crater Observation and Sensing Satellite (Secondary Payload on LRO)
LDCM	Landsat Data Continuity Mission [Air Force launch]
LISA	Large-scale Integrated Space Antenna (Possible joint mission with ESA) (see ST-7 below)
LRO	Lunar Reconnaissance Orbiter

LSAM-x	Lunar Surface Access Module (x-mission #)
LWS-x	Living With a Star (x- mission #)
Mar Scout-x	Mars Scout flight (x- mission #)
MEDLI	Mars Entry, Descent and Landing Instrumentation
MHP	Mars Human Precursor mission
MIDEX-xx	Medium-class Explorer (xx- mission #)
ML	Mobile Launcher
MMS	Magnetospheric Multi-Scale mission
MoO-x	Mission of Opportunity x (Discovery or New Frontiers Programs) (x = mission #)
MSL	Mars Science Laboratory
MSR-x	Mars Sample Return (x- mission #)
NewFront-x	New Frontiers flight (x- mission #)
NextGen	Next Generation Air Transportation System
NOAA-N'	National Oceanographic and Atmospheric Administration satellite
NPP	NPOESS Preparatory Project
NuStar	Nuclear Spectroscopic Telescope Array
OCO	Orbiting Carbon Observatory
OP-x	Outer Planets mission x
Orion-x	Crew Exploration Vehicle (aka CEV) (x-mission #)
OSTM	Ocean Surface Topography Mission
PA-x	Pad Abort (test sub-orbital flights) (x-mission #)
Planck	Planck Surveyor <i>[ESA launch]</i>
RBSP	Radiation Belt Storm Probes
SDO	Solar Dynamics Observatory
Sentinels	Solar Sentinel missions <i>[ELV launch]</i>
SET-x	Space Experiments Testbeds (x-mission #)
SMAP	Soil Moisture Active-Passive
SMEX-xx	SMall-class Explorer (xx- mission #)
SOFIA	Stratospheric Observatory For Infrared Astronomy <i>[Aircraft first science flight]</i>
X-SOF	Estimated number of SOFIA aircraft science flights
Solar Orb	Solar Orbiter mission
Solar Prbe	Solar Probe mission
X-SR	Estimated number of non-reimbursable sounding rocket launches
ST-7	Space Technology Mission #7 (US subsystem for ESA's LISA pathfinder)
STP-x	Solar Terrestrial Probe mission (x- mission #)
STS-x	Shuttle Transportation System (x-mission #)
TBCC/RBCC	Turbine Based Combined Cycle/Rocket Based Combined Cycle
TDRS-X	Tracking and Data Relay Satellite (X = next in sereies)
TSTO	Two-Stage to Orbit
TWINS-B	Two Wide-angle Imaging Neutral-atom Spectrometers <i>[Second of Two DoD launches]</i>
ULF	Utilization Logistics Flight
VAB	Vehicle Assembly Building
Venture-x	Venture: Class of small, AO-selected missions (x-mission #)
WISE	Wide-field Infrared Spectroscopic Explorer (MIDEX-6)