

List of satellite missions (chronological)

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
Diademe 1&2 CNES	Currently being flown	15-Feb-67	31-Dec-50	Geodetic measurements using satellite laser ranging	RRA	Type: Inclined, non-sunsynchronous Altitude: 584-1733km Period: 108mins Inclination: 40deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: galileo.crl.go.jp/ilrs/diademe.html
STARLETTE CNES	Currently being flown	6-Feb-75	31-Dec-50	Geodesy/gravity Study of the Earth's gravitational field and its temporal variations	Laser reflectors	Type: Inclined, non-sunsynchronous Altitude: 812km Period: 104mins Inclination: 49.83deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
LAGEOS-1 (Laser Geodynamics Satellite-1) NASA	Currently being flown	4-May-76	4-May-16	Geodesy, crustal motion and gravity field measurements by laser ranging	LRA (LAGEOS)	Type: Inclined, non-sunsynchronous Altitude: 6000km Period: 225mins Inclination: 110deg Repeat cycle: LST: Longitude (if geo): Asc/desc:
Landsat-5 USGS	Currently being flown	01-Mar-84	31-Dec-04	Earth resources, land surface, environmental monitoring, agriculture and forestry, disaster monitoring and assessment, ice and snow cover	TM, (MSS non-functional)	Type: Sun-synchronous Altitude: 705km Period: 99mins Inclination: 98.2deg Repeat cycle: 16days LST: 09:45 Longitude (if geo): Asc/desc: Descending URL: landsat7.usgs.gov or edc.usgs.gov
ERBS (Earth Radiation Budget Satellite) NASA	Currently being flown	5-Oct-84	1-Jan-03	Earth radiation budget measurements	ERBE, SAGE II	Type: Inclined, non-sunsynchronous Altitude: 585km Period: 96.3mins Inclination: 57deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.earth.nasa.gov/missions/ref_web/merbs.htm
DMSP F-8 (Defense Meteorological Satellite Program F-8) NOAA	Currently being flown	1-Jun-87	31-Aug-03	The long-term meteorological programme of the US Department of Defense (DoD) – with the objective to collect and disseminate worldwide atmospheric, oceanographic, solar-geophysical, and cloud cover data on a daily basis. (Primary operational satellite)	OLS SSB/X, SSM/I, SSM/T-1	Type: Inclined, Sun-synchronous Altitude: 830km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: 05:55 Longitude (if geo): Asc/desc: Descending URL: www.ngdc.noaa.gov/dmsp/dmsp.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
NOAA-11 (National Oceanic and Atmospheric Administration -11) NOAA	Currently being flown	24-Sep-88	31-Aug-03	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis	NOAA Comms, ARGOS, S&R (NOAA), HIRS/2, AVHRR/2, SBUV/2, SSU, MSU	Type: Inclined, Sun-synchronous Altitude: 845km Period: 101.9mins Inclination: 99.1deg Repeat cycle: 0.5days LST: 22:37 Longitude (if geo): Asc/desc: Ascending URL: www.oso.noaa.gov/poes/
NOAA-12 (National Oceanic and Atmospheric Administration - 12) NOAA	Currently being flown	14-May-91	31-Aug-03	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis	ARGOS, AVHRR/2, HIRS/2, MSU, NOAA Comms, SEM (POES)	Type: Sun-synchronous Altitude: 850km Period: 101.3mins Inclination: 98.5deg Repeat cycle: LST: 04:49 Longitude (if geo): Asc/desc: Descending URL: www.oso.noaa.gov/poes/
METEOR-3 N5 Roshydromet	Currently being flown	15-Aug-91	31-Dec-02	Currently limited operation (only MR-900B instrument is working). Hydrometeorology, climatology, land surface, physical oceanography, heliogeophysics, data collection	MR-900B	Type: Inclined, non-sunsynchronous Altitude: 1200km Period: 109mins Inclination: 82.5deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: sputnik1.infospace.ru
IRS-1B (Indian Remote Sensing Satellite - 1B) ISRO	Currently being flown	28-Aug-91	31-Aug-02	Land surface, agriculture and forestry, regional geology, land use studies, water resources, vegetation studies, coastal studies and soils	LISS-I, LISS-II	Type: Sun-synchronous Altitude: 904km Period: 101mins Inclination: 99deg Repeat cycle: 26 days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL:
METEOR-2 N21 Roshydromet	Currently being flown	31-Aug-91	31-Dec-02	Currently limited operation (only 1 instrument working): Hydrometeorology, climatology, land surface, physical oceanography, heliogeophysics, data collection	MR-900B	Type: Inclined, non-sunsynchronous Altitude: 109km Period: 109mins Inclination: 82.5deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: sputnik1.infospace.ru
UARS (Upper Atmosphere Research Satellite) NASA	Currently being flown	15-Sep-91	31-Dec-02	Atmospheric chemistry (middle to upper atmosphere), atmospheric dynamics/water and energy cycles. HALOE, HRDI, MLS, PEM instruments still functioning. End date TBD	HALOE, HRDI, MLS, PEM, SOLSTICE, SUSIM (UARS), WINDII	Type: Inclined, non-sunsynchronous Altitude: 585km Period: 96.7mins Inclination: 57deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: daac.gsfc.nasa.gov/CAMPAIGN_DOCS/UARS_project.html
Topex-Poseidon NASA/CNES	Currently being flown	10-Aug-92	31-Dec-02	Physical oceanography, geodesy/gravity	DORIS, GPSDR, LRA, POSEIDON-1 (SSALT-1), TMR, TOPEX	Type: Inclined, non-sunsynchronous Altitude: 1336km Period: 112mins Inclination: 66deg Repeat cycle: 10days LST: Longitude (if geo): Asc/desc: N/A URL: topex-www.jpl.nasa.gov/

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LAGEOS-2 (Laser Geodynamics Satellite - 2) NASA	Currently being flown	22-Oct-92	22-Oct-32	Geodesy, crustal motion and gravity field measurements by laser ranging	LRA (LAGEOS)	Type: Inclined, non-sunsynchronous Altitude: 5900km Period: 223mins Inclination: 52deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
SCD-1 (Data Collecting Satellite 1) INPE	Currently being flown	09-Feb-93	01-Dec-02	Data collection and communication	DCP (SCD)	Type: Inclined, non-sunsynchronous Altitude: 750km Period: 100mins Inclination: 25deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.inpe.br/programas/mecb/default.htm
STELLA CNES	Currently being flown	30-Sep-93	31-Dec-50	Geodesy/gravity Study of the Earth's gravitational field and its temporal variations	Laser reflectors	Type: Inclined, non-sunsynchronous Altitude: 830km Period: 101mins Inclination: 98deg Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL:
GOES-8 (Geostationary Operational Environmental Satellite - 8) NOAA	Currently being flown	13-Apr-94	31-Aug-03	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, S&R (GOES), SEM (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: 0.09deg Repeat cycle: LST: Longitude (if geo): 75 Asc/desc: URL: www.oso.noaa.gov/goes/
DMSP F-12 (Defence Meteorological Satellite Program F-12) NOAA	Currently being flown	01-Aug-94	31-Aug-03	The long-term meteorological programme of the US Department of Defense (DoD) - with the objective to collect and disseminate worldwide atmospheric, oceanographic, solar-geophysical, and cloud cover data on a daily basis	OLS, SSB/X-2, SSIES-2, SSJ/4, SSM, SSM/I, SSM/T-1, SSM/T-2	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: 19:29 Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
IRS-P2 (Indian Remote Sensing Satellite - P2) ISRO	Currently being flown	15-Oct-94	31-Mar-03	Land surface, agriculture and forestry, regional geology, land use studies, water resources, vegetation studies, coastal studies and soils	LISS-II	Type: Sun-synchronous Altitude: 904km Period: 103mins Inclination: 98deg Repeat cycle: 22 days LST: 10:15 Longitude (if geo): Asc/desc: Descending URL:
NOAA-14 (National Oceanic and Atmospheric Administration - 14) NOAA	Currently being flown	30-Dec-94	31-Aug-03	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis	ARGOS, AVHRR/2, HIRS/2, MSU, NOAA Comms, S&R (NOAA), SBUV/2, SEM (POES), SSU	Type: Sun-synchronous Altitude: 850km Period: 102.1mins Inclination: 99.1deg Repeat cycle: LST: 17:52 Longitude (if geo): Asc/desc: Ascending URL: www.oso.noaa.gov/poes/
GMS-5 (Geostationary Meteorological Satellite - 5) JMA/NASDA	Currently being flown	18-Mar-95	01-Jun-03	Meteorology	DCS (NASDA), GMS Comms, VISSR (GMS-5)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -140 Asc/desc: N/A URL: www.nasda.go.jp/sat/gms/

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ERS-2 (European Remote Sensing Satellite - 2) ESA	Currently being flown	21-Apr-95	30-Jun-04	Earth resources plus physical oceanography, ice and snow, land surface, meteorology, geodesy/gravity, environmental monitoring, atmospheric chemistry	AMI/SAR/Image, AMI/SAR/wave, AMI-scatterometer, ATSR/M, ATSR-2, ERS Comms, GOME, MWR, RA	Type: Sun-synchronous Altitude: 782km Period: 100.5mins Inclination: 98.52deg Repeat cycle: 35days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.esa.int/export/esaSA/GGGWBR8RVDC_earth_0.html
GOES-9 (Geostationary Operational Environmental Satellite - 9) NOAA	Currently being flown	23-May-95	31-Aug-03	Meteorology (primary mission), search and rescue, space environmental monitoring, data collection, platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, S&R (GOES), SEM (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 105 Asc/desc: N/A URL: www.oso.noaa.gov/goes/
RADARSAT-1 CSA	Currently being flown	04-Nov-95	01-Nov-03	Environmental monitoring, physical oceanography, ice and snow, land surface	SAR (RADARSAT)	Type: Sun-synchronous Altitude: 798km Period: 100.7mins Inclination: 98.594deg Repeat cycle: 24days LST: 18:00 Longitude (if geo): Asc/desc: Ascending URL: www.space.gc.ca/csa_sectors/earth_environment/radarsat/default.asp
IRS-1C (Indian Remote Sensing Satellite - 1C) ISRO	Currently being flown	28-Dec-95	28-Dec-02	Land surface, agriculture and forestry regional geology, land use studies, water resources, vegetation studies, coastal studies and soils, cartography, digital terrain models	LISS-III, PAN, WiFS	Type: Sun-synchronous Altitude: 817km Period: 101.35mins Inclination: 98.6deg Repeat cycle: 24 days LST: 10:50 Longitude (if geo): Asc/desc: Descending URL:
IRS-P3 (Indian Remote Sensing Satellite - P3) ISRO	Currently being flown	21-Mar-96	31-Mar-03	Ocean biology, physical oceanography, land surface, agriculture and forestry, water resources, vegetation and coastal studies	MOS, WiFS, X-ray astronomy payload	Type: Sun-synchronous Altitude: 817km Period: 101.35mins Inclination: 98.7deg Repeat cycle: 24 days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL:
TOMS-EP (Total Ozone Mapping Spectrometer Earth Probe) NASA	Currently being flown	02-Jul-96	01-Jan-03	Atmospheric Chemistry, Ozone and sulphur dioxide measurements. End date TBD	TOMS	Type: Sun-synchronous Altitude: 740km Period: 104.4mins Inclination: 98.385deg Repeat cycle: LST: 11:10 Longitude (if geo): Asc/desc: Ascending URL: jwocky.gsfc.nasa.gov/eptoms/ep.html
DMSP F-13 (Defense Meteorological Satellite Program F-13) NOAA	Currently being flown	01-Mar-97	31-Aug-03	The long-term meteorological programme of the US Department of Defense (DoD) – with the objective to collect and disseminate worldwide atmospheric, oceanographic, solar-geophysical, and cloud cover data on a daily basis	OLS, SSB/X-2, SSIES-2, SSJ/4, SSM, SSM/I, SSM/T-1, SSM/T-2, SSZ	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: 18:12 Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html

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DMSP F-14 (Defense Meteorological Satellite Program F-14) NOAA	Currently being flown	04-Apr-97	31-Aug-03	The long-term meteorological programme of the US Department of Defense (DoD) – with the objective to collect and disseminate worldwide atmospheric, oceanographic, solar-geophysical, and cloud cover data on a daily basis.	OLS, SSB/X-2, SSIES-2, SSJ/4, SSM, SSM/I, SSM/T-1, SSM/T-2, SSZ	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: 20:29 Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp.html
INSAT-2D (Indian National Satellite -2D) ISRO	Currently being flown	06-Apr-97	01-Jan-03	Meteorology, data collection and communication, search and rescue	BSS & FSS transponders, DRT-S&R, INSAT Comms	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -74 Asc/desc: URL:
GOES-10 (Geostationary Operational Environmental Satellite - 10) NOAA	Currently being flown	25-Apr-97	31-Aug-03	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, S&R (GOES), SEM (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 135 Asc/desc: URL: www.oso.noaa.gov/goes/
SeaStar NASA	Currently being flown	01-Aug-97	31-Dec-02	Ocean-colour data, ocean biology and ecology, phytoplankton concentrations and growth, pollution, algal bloom monitoring	SeaWiFS	Type: Sun-synchronous Altitude: 705km Period: 99mins Inclination: 98.2deg Repeat cycle: 16days LST: 12:00 Longitude (if geo): Asc/desc: Descending URL: www.xs4all.nl/~carlkop/seawif.html
METEOSAT-7 (MTP) (Meteosat Transition Programme) EUMETSAT	Currently being flown	03-Sep-97	30-Sep-02	Meteorology, climatology	METEOSAT Comms, MVIRI	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 0 Asc/desc: N/A URL: www.eumetsat.de/en/mtp/index/html
IRS-1D (Indian Remote Sensing Satellite - 1D) ISRO	Currently being flown	29-Sep-97	29-Sep-04	Land surface, agriculture and forestry, regional geology, land use studies, water resources, vegetation studies, coastal studies and soils	LISS-III, PAN, WiFS	Type: Sun-synchronous Altitude: 817km Period: 101mins Inclination: 98.6deg Repeat cycle: 24 days LST: 10:50 Longitude (if geo): Asc/desc: Descending URL:
TRMM (Tropical Rainfall Measuring Mission) NASA/NASDA	Currently being flown	27-Nov-97	31-Dec-04	Atmospheric dynamics/water and energy cycles	CERES, LIS, PR, TMI, VIRS	Type: Inclined, non-sunsynchronous Altitude: 350km Period: 91mins Inclination: 35deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.eorc.nasda.go.jp/TRMM/index_e.htm
SPOT-4 (Satellite Pour l'Observation de la Terre - 4) CNES	Currently being flown	24-Mar-98	01-Mar-03	Cartography, land surface, agriculture and forestry, civil planning and mapping, digital terrain models, environmental monitoring	DORIS, HRVIR, VEGETATION	Type: Sun-synchronous Altitude: 832km Period: 101mins Inclination: 98.7deg Repeat cycle: 26days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.spot.com/home/system/introsat/welcome.htm

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NOAA-15 (National Oceanic and Atmospheric Administration - 15) NOAA	Currently being flown	01-May-98	31-Aug-03	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, space environment, solar flux analysis, search and rescue	AMSU-A, AMSU-B, ARGOS, AVHRR/3, HIRS/3, NOAA Comms, S&R (NOAA), SEM (POES)	Type: Sun-synchronous Altitude: 813km Period: 101.4mins Inclination: 98.6deg Repeat cycle: LST: 07:08 Longitude (if geo): Asc/desc: Descending URL: www.oso.noaa.gov/poes/
Resurs-01 N4 Rosaviakosmos	Currently being flown	10-Jul-98	31-Aug-02	Environmental monitoring, agriculture and forestry, hydrology, hydrometeorology, ice and snow, land surface, agriculture, disaster management. Currently only providing data from MR-900B instrument	ISP, MR-900B, MSU-E, MSU-SK, RMK-2, ScaRaB/M/MV2	Type: Sun-synchronous Altitude: 850km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: sputnik1.infospace.ru
SCD-2 (Data Collecting Satellite 2) INPE	Currently being flown	22-Oct-98	01-Dec-02	Data collection and communication	DCP (SCD)	Type: Inclined, non-sunsynchronous Altitude: 750km Period: 100mins Inclination: 25deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.inpe.br/programas/mecb/default.htm
INSAT-2E (Indian National Satellite - 2E) ISRO	Currently being flown	04-Mar-99	04-Mar-11	Meteorology, data collection and communication, search and rescue	BSS & FSS transponders, DRT-S&R, INSAT Comms	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -83 Asc/desc: URL:
Landsat-7 USGS	Currently being flown	15-Apr-99	15-Apr-04	Land surface, Earth resources	ETM+, LANDSAT Comms	Type: Sun-synchronous Altitude: 705km Period: 99mins Inclination: 98.2deg Repeat cycle: 16days LST: 10:00 Longitude (if geo): Asc/desc: Descending URL:
IRS-P4 (OCEANSAT-1) ISRO	Currently being flown	26-May-99	26-May-04	Ocean biology, physical oceanography	MSMR, OCM, WIFS	Type: Sun-synchronous Altitude: 720km Period: 99.31mins Inclination: 98.28deg Repeat cycle: 2days LST: 12:15 Longitude (if geo): Asc/desc: URL:
QuikSCAT (QuikSCAT/Sea Winds) NASA	Currently being flown	19-Jun-99	01-Jan-03	Acquires accurate, high-resolution, global measurements of sea-surface wind vectors in 1 to 2 day repeat cycles for studies of tropospheric dynamics and air-sea interaction processes, including air-sea momentum transfer. End of life date TBD	SeaWinds	Type: Sun-synchronous Altitude: 803km Period: Inclination: 98.6deg Repeat cycle: LST: 06:00 Longitude (if geo): Asc/desc: Ascending URL: winds.jpl.nasa.gov/missions/quikscat/quikindex.html

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OKEAN-0 ROSHYDROMET	Currently being flown	17-Jul-99	31-Dec-02	Oceanography, agriculture and forestry, hydrology, environmental monitoring, crop and soil monitoring, forest and tundra fires, pollution monitoring	DELTA-2D, KONDOR-2, MSU-M, MSU-SK, MSU-V, R-600, RLSBO, TRASSER	Type: Sun-synchronous Altitude: 670km Period: 98mins Inclination: 98deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Descending URL: sputnik1.infospace.ru
CBERS-1 (China Brazil Earth Resources Satellite-1) CAST/INPE	Currently being flown	14-Oct-99	01-Dec-02	Earth resources, environmental monitoring, land surface	CCD, DCP, IR-MSS, WFI	Type: Sun-synchronous Altitude: 778km Period: 100.26mins Inclination: 98.5deg Repeat cycle: 26days LST: 10:50 Longitude (if geo): Asc/desc: Descending URL: www.inpe.br/programas/cbers/english/index.html
DMSP F-15 (Defense Meteorological Satellite Program F-15) NOAA	Currently being flown	12-Dec-99	31-Aug-03	The long-term meteorological programme of the US Department of Defense (DoD) – with the objective to collect and disseminate worldwide atmospheric, oceanographic, solar-geophysical, and cloud cover data on a daily basis. (Primary operational satellite)	OLS, SSIES-2, SSJ/4, SSM, SSM/I, SSM/T-1, SSM/T-2, SSZ	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.9deg Repeat cycle: LST: 20:29 Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
Terra (formerly EOS AM-1) NASA	Currently being flown	18-Dec-99	18-Dec-05	Atmospheric dynamics/water and energy cycles, Atmospheric chemistry, Physical and radiative properties of clouds, air-land exchanges of energy, carbon and water, vertical profiles of CO and methane vulcanology	ASTER, CERES, MISR, MODIS, MOPITT	Type: Sun-synchronous Altitude: 705km Period: 99mins Inclination: 98.2deg Repeat cycle: 16days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: terra.nasa.gov/
ACRIMSAT (Active Cavity Radiometer Irradiance Monitor) NASA	Currently being flown	20-Dec-99	01-Jan-05	Will sustain long-term solar luminosity database by providing measurements of total solar irradiance and the solar constant	ACRIM III	Type: Sun-synchronous Altitude: 716km Period: Inclination: 98.13deg Repeat cycle: LST: 10:50 Longitude (if geo): Asc/desc: Ascending URL: acrim.jpl.nasa.gov
KOMPSAT-1 (Korea Multi-Purpose Satellite 1) KARI	Currently being flown	21-Dec-99	21-Dec-02	Cartography, land use and planning, disaster monitoring, Global marine resource and environmental monitoring, ocean contamination and chlorophyll detection	EOC, OSMI	Type: Sun-synchronous Altitude: 685km Period: 98.5mins Inclination: Repeat cycle: 28days LST: 10:50 Longitude (if geo): Asc/desc: Ascending URL: kompsat.kari.re.kr/english/index.asp
GOES-11 (Geostationary Operational Environmental Satellite - 11) NOAA	Currently being flown	03-May-00	03-May-05	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, S&R (GOES), SEM (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 103 Asc/desc: N/A URL: www.oso.noaa.gov/goes/

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
FY-2B (FY-2B Geostationary Meteorological Satellite) NRSCC	Currently being flown	25-Jun-00	30-Jun-03	Meteorology and environmental monitoring Data collection and redistribution	VISSR (FY-2)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -105 Asc/desc: URL:
CHAMP (Challenging Mini-Satellite Payload for Geophysical Research and Application DLR	Currently being flown	15-Jul-00	15-Jul-05	Gravity field, Precise geoid, Magnetic field, Atmospheric physics	CHAMP GPS Sounder, CHAMP gravity package (Accelerometer≠ GPS), CHAMP magnetometry package (1 Scalar+2 Vector Magnetometer), GPSDR	Type: Inclined, non-sunsynchronous Altitude: 470km Period: Inclination: 87deg Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: op.gfz-potsdam.de/champ/index_CHAMP.html
NOAA-16 (National Oceanic and Atmospheric Administration - 16) NOAA	Currently being flown	21-Sep-00	01-Jun-04	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis, search and rescue	AMSU-A, AMSU-B, ARGOS, AVHRR/3, HIRS/3, NOAA Comms, S&R (NOAA), SBUV/2, SEM (POES)	Type: Sun-synchronous Altitude: 870km Period: 102mins Inclination: 98.8deg Repeat cycle: LST: 13:54 Longitude (if geo): Asc/desc: Ascending URL: www.oso.noaa.gov/poes/
NMP E0-1 (New Millennium Program E0-1) NASA	Currently being flown	21-Nov-00	21-Nov-02	Land surface, earth resources	ALI, Atmospheric Corrector, Hyperion	Type: Sun-synchronous Altitude: 705km descending in formation with Landsat-7 Period: 99mins Inclination: 98.2deg Repeat cycle: 16days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: eo1.gsfc.nasa.gov/miscPages/home.html
SAC-C CONAE	Currently being flown	21-Nov-00	01-Dec-04	Earth Observation, studies the structure and dynamics of the Earth's surface, atmosphere, ionosphere and geomagnetic field	GOLPE, HRTC, HSTC, ICARE, INES, IST, MMP, MMRS, WTE	Type: Sun-synchronous Altitude: 705km Period: 98mins Inclination: 98.2deg Repeat cycle: 9days LST: 10:15 Longitude (if geo): Asc/desc: Descending URL: www.CONAE.gov.ar
Odin SNSB	Currently being flown	20-Feb-01	20-Feb-04	Atmospheric research, stratospheric ozone chemistry, mesospheric ozone science, summer mesospheric science	OSIRIS, SMR	Type: Sun-synchronous Altitude: 625km Period: 97.6mins Inclination: 97.8deg Repeat cycle: LST: 18:00 Longitude (if geo): Asc/desc: Ascending URL: www.ssc.se/ssd/ssat/odin.html and www.snsb.se
GOES-12 (Geostationary Operational Environmental Satellite - 12) NOAA	Currently being flown	23-Jul-01	23-Jul-06	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, S&R (GOES), SEM (GOES), Sounder, SXI, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 90 Asc/desc: N/A URL: www.oso.noaa.gov/goes/

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
BIRD (Bi-spectral Infrared Detection small satellite) DLR	Currently being flown	22-Oct-01	31-Oct-02	Small satellite mission with technical (infrared push-broom sensors, on-board data processing) and scientific (Study of thermal processes on the Earth surface) objectives	HSRS, WAOSS-B	Type: Sun-synchronous Altitude: 572km Period: Inclination: 97.8deg Repeat cycle: LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: spacesensors.dlr.de/SE/bird/
PROBA (Project for On-Board Autonomy) ESA	Currently being flown	22-Oct-01	22-Oct-03	PROBA is a technology experiment to demonstrate the on-board autonomy of a generic platform suitable for small scientific or application missions. A number of earth observation instruments are included	CHRIS	Type: Sun-synchronous Altitude: 560-670km Period: 96.94mins Inclination: 97.9deg Repeat cycle: 16days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.chris-proba.org.uk/ & www.estec.esa.nl/wawww/ES/PROBA.html
Jason-1 NASA/CNES	Currently being flown	07-Dec-01	07-Dec-06	Physical oceanography, geodesy/gravity, climate monitoring, marine meteorology	DORIS-NG, JMR, LRA, POSEIDON-2 (SSALT-2), TRSR	Type: Inclined, non-sunsynchronous Altitude: 1336km Period: 122.4mins Inclination: 66deg Repeat cycle: 10days LST: Longitude (if geo): Asc/desc: N/A URL: ilrs.gsfc.nasa.gov/ilrs/jason1.html
METEOR-3M N1 Roshydromet Rosaviakosmos	Currently being flown	10-Dec-01	31-Dec-04	Hydrometeorology, climatology, land surface, physical oceanography, heliogeophysics and space environment, sounding of the atmosphere, agriculture. (Expected operational during 2002)	KGI-4C, Klimat, MIVZA, MR-2000M1, MSGI-5EI, MSU-E, MSU-SM, MTVZA, SAGE III, SFM-2	Type: Sun-synchronous Altitude: 1018km Period: 105.3mins Inclination: 99.6deg Repeat cycle: days LST: 09:25 Longitude (if geo): Asc/desc: Ascending URL: sputnik1.infospace.ru
Envisat (Environmental Satellite) ESA	Currently being flown	01-Mar-02	01-Mar-07	Physical oceanography, land surface, ice and snow, atmospheric chemistry, atmospheric dynamics/water and energy cycles	AATSR, ASAR, ASAR (image mode), ASAR (wave mode), DORIS-NG, ENVISAT Comms, GOMOS, MERIS, MIPAS, MWR, RA-2, SCIAMACHY	Type: Sun-synchronous Altitude: 782km Period: 100.5mins Inclination: 98.52deg Repeat cycle: 35days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: envisat.esa.int
GRACE (Gravity Recovery and Climate Experiment) NASA	Currently being flown	17-Mar-02	01-Mar-07	Extremely high precision gravity measurements for use in construction of gravity field models	GPSDR, HAIRS	Type: Inclined, non-sunsynchronous Altitude: 300-500km Period: Inclination: 89deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.csr.utexas.edu/grace/
Aqua NASA	Currently being flown	04-May-02	04-May-07	Atmospheric dynamics/water and energy cycles, cloud formation, precipitation and radiative properties, air-sea fluxes of energy and moisture, sea ice extent and heat exchange with the atmosphere. Option of 705km or 438km orbit altitude	AIRS, AMSR-E, AMSU-A, CERES, HSB, MODIS	Type: Sun-synchronous Altitude: 705km Period: 98.8mins Inclination: 98.2deg Repeat cycle: 16days LST: 13:30 Longitude (if geo): Asc/desc: Ascending URL: aqua.gsfc.nasa.gov/menu/html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
SPOT-5 (Satellite Pour l'Observation de la Terre - 5) CNES	Currently being flown	04-May-02	04-May-07	Cartography, land surface, agriculture and forestry, civil planning and mapping, digital terrain models, environmental monitoring	DORIS-NG, HRG, HRS, VEGETATION	Type: Sun-synchronous Altitude: 832km Period: 101mins Inclination: 98.7deg Repeat cycle: 26days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.spotimage.fr/home/system/future/spot5/welcome.htm
FY-1D (FY-1D Polar-orbiting Meteorological Satellite) NRSCC	Currently being flown	15-May-02	31-May-04	Meteorology, Environmental monitoring	MVISR (10 channels)	Type: Sun-synchronous Altitude: 863km Period: 102.3mins Inclination: 98.8deg Repeat cycle: LST: 09:00 Longitude (if geo): Asc/desc: Descending URL:
INSAT 3A (Indian National Satellite - 3A) ISRO	Approved	01-Jun-02	01-Jun-14	Meteorology, data collection and communication, search and rescue	CCD camera, VHRR	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 93.5 Asc/desc: URL:
NOAA-M (National Oceanic and Atmospheric Administration - M) NOAA	Approved	25-Jun-02	01-Mar-06	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis, search and rescue	AMSU-A, AMSU-B, ARGOS, AVHRR/3, HIRS/3, NOAA Comms, S&R (NOAA), SBUW/2, SEM (POES)	Type: Sun-synchronous Altitude: 833km Period: 101.4mins Inclination: 98.75deg Repeat cycle: LST: 10:00 Longitude (if geo): Asc/desc: Descending URL: www.oso.noaa.gov/poes/
MSG-1 (Meteosat Second Generation-1) EUMETSAT	Approved	13-Aug-02	13-Aug-09	Meteorology, climatology, Atmospheric dynamics/water and energy cycles	GERB, MSG Comms, SEVIRI	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 0 Asc/desc: N/A URL: www.eumetsat.de/en/area4/topic1.html
CBERS-2 (China Brazil Earth Resources Satellite - 2) CAST/INPE	Approved	18-Aug-02	18-Aug-07	Earth resources, environmental monitoring, land surface	CCD, DCP, IR-MSS, WFI	Type: Sun-synchronous Altitude: 778km Period: 100.26mins Inclination: 98.5deg Repeat cycle: 26days LST: 10:50 Longitude (if geo): Asc/desc: Descending URL: www.inpe.br/programas/cbers/english/index.html
MTSAT-1R (Multi-functional Transport Satellite) JMA	Approved	01-Sep-02	01-Sep-07	Meteorology, aeronautical applications	IMAGER/MTSAT-1R, MTSAT Comms	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -140 Asc/desc: N/A URL:
DMSP F-16 (Defense Meteorological Satellite Program F-16) NOAA	Approved	06-Oct-02	01-Aug-05	The long-term meteorological programme of the US Department of Defense (DoD) - with the objective to collect and disseminate worldwide cloud cover data on a daily basis	OLS, SSIES-3, SSJ/5, SSM, SSM/T-1, SSMIS, SSULI, SSUSI	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.9deg Repeat cycle: LST: 21:32 Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
ADEOS-2 (Advanced Earth Observing Satellite - 2) NASDA	Approved	01-Nov-02	01-Nov-05	Atmospheric dynamics/water, carbon and energy cycles Land surface Physical oceanography	ADEOS Comms, AMSR, GLI, ILAS-II, POLDER, SeaWinds	Type: Sun-synchronous Altitude: 803km Period: 101mins Inclination: 98.6deg Repeat cycle: 4days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.nasda.go.jp/sat/adeos2/
FedSat (Australian 100 year Federation Satellite) CRCSS 124	Approved	01-Nov-02	01-Nov-05	Communications, data relay, near Earth environment, upper atmospheric physics, meteorology	Communications payload (Ka and UHF band), Fluxgate magnetometer, GPS receiver	Type: Sun-synchronous Altitude: 803km Period: 101mins Inclination: 98.6deg Repeat cycle: LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.crcss.csiro.au
SORCE (Solar Radiation and Climate Experiment) NASA	Approved	01-Nov-02	01-Nov-08	Continues the precise, long-term measurements of total solar irradiance at UV and VNIR wavelengths. Daily measurements of solar UV. Precise measurements of visible solar irradiance for climate studies	SIM, SOLSTICE, TIM, XPS	Type: Inclined, non-sunsynchronous Altitude: 600km Period: Inclination: 40deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: http://lasp.colorado.edu/sorce/
METSAT ISRO	Approved	01-Dec-02	01-Dec-07	Meteorological applications	VHRR	Type: Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
Monitor-E Rosaviakosmos	Approved	01-Dec-02	01-Dec-05	Agriculture and forestry, hydrology, environmental monitoring, hydrometeorology, ice and snow, land surface, meteorology	TBC	Type: Altitude: 540km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
ICESat (Ice, Clouds, and Elevation Satellite) NASA	Approved	15-Dec-02	15-Dec-06	Monitors mass balance of polar ice sheets and their contribution to global sea level change. Secondary goals: cloud heights and vertical structure of clouds/aerosols; roughness, reflectivity, vegetation heights, snow-cover	GLAS, GPSDR	Type: Inclined, non-sunsynchronous Altitude: 600km Period: 97mins Inclination: 94deg Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: icesat.gsfc.nasa.gov/
SCISAT-1 (scisat-1) CSA	Approved	20-Dec-02	20-Dec-07	To improve our understanding of the depletion of the ozone layer, particularly over Canada and the Arctic	ACE-FTS, MAESTRO	Type: Sun-synchronous Altitude: 650km Period: Inclination: 74deg Repeat cycle: 15days LST: Longitude (if geo): Asc/desc: URL: www.space.gc.ca/scisat1
RESOURCESAT-1 ISRO	Approved	01-Jan-03	01-Jan-08	Natural Resources Management; Agricultural applications; Forestry	AWiFS, LISS-III, LISS-IV	Type: Sun-synchronous Altitude: 817km Period: 102mins Inclination: 98.72deg Repeat cycle: 26days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL:

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
BNSCSat (Disaster Monitoring Constellation) BNSC	Approved	01-Jan-03	01-Jan-06	Medium resolution visible imager for support of disaster management	DMC Imager	Type: TBD Altitude: 700km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.sstl.co.uk/missions/
INSAT 3D (Indian National Satellite - 3D) ISRO	Approved	01-Jan-03	01-Jan-15	Meteorology, data collection and communication, search and rescue	Imager (INSAT), Sounder (INSAT)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 83 Asc/desc: URL:
Resurs DK Rosaviakosmos	Planned	01-Jan-03	31-Dec-06	Agriculture and forestry, hydrology, environmental monitoring, hydrometeorology, ice and snow, land surface, meteorology	Multispectral high resolution scanner	Type: Sun-synchronous Altitude: 670km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
GOES-N (Geostationary Operational Environmental Satellite - N) NOAA	Approved	07-Jan-03	07-Jan-08	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, SEM (GOES), S&R (GOES), Sounder, SXI, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: www.oso.noaa.gov/goes/
SICH-1M NSAU	Approved	01-Mar-03	01-Mar-08	Physical Oceanography, Hydrometeorology, Land Observation	MSU-EU, MSU-M, MTVZA-OK, RLSBO, RM-08	Type: Sun-synchronous Altitude: 650km Period: 98mins Inclination: 82.5deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
CARTOSAT-1 ISRO	Approved	01-Jun-03	01-Jan-08	Cartography, digital terrain models, civil planning, resource and cadastre management	PAN	Type: Sun-synchronous Altitude: 630km Period: 94.44mins Inclination: 97.44deg Repeat cycle: LST: 09:30 Longitude (if geo): Asc/desc: Descending URL:
DEMETER (Detection of Electro-Magnetic Emissions Transmitted from Earthquake Regions) CNES	Approved	01-Dec-03	01-Dec-05	Micro-satellite to study; ionospheric disturbances related to seismic activity, ionospheric disturbances related to human activity, pre and post-seismic effects in the global information on the Earth's electromagnetic environment	IAP, ICE, IDP, IMSC, ISL	Type: Sun-synchronous Altitude: 800km Period: Inclination: Repeat cycle: LST: 10:30 Longitude (if geo): Asc/desc: TBD URL: www-project.cst.cnes.fr:8060/DEMETER/index/html
TopSat (Optical Imaging Satellite) BNSC	Approved	01-Dec-03	01-Dec-04	Prototype low-cost high-resolution imager	TOPSAT telescope	Type: Sun-synchronous Altitude: 600km Period: Inclination: 98deg Repeat cycle: LST: 10:30 Longitude (if geo): Asc/desc: URL: www.qinetiq.com/industries/space/spacecraft_technology/case_study_topsat/index.asp

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
COSMO-SkyMed (Constellation of small Satellites for Mediterranean basin Observation) ASI	Planned	31-Dec-03	31-Dec-08	Environmental monitoring, surveillance and risk management applications, environmental resources management, maritime management, earth topographic mapping, law enforcement, informative/science applications	SAR 2000	Type: Sun-synchronous Altitude: 619km Period: 97.86mins Inclination: Repeat cycle: 16days LST: 06:00 Longitude (if geo): Asc/desc: Ascending URL: www.alespazio.it/program/tlr/cosmo/cosmo.htm
FY-2C (FY-2C Geostationary Meteorological Satellite) NRSCC	Planned	31-Dec-03	31-Dec-06	Meteorology and environmental monitoring Data collection and redistribution	IVISSR (FY-2)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -105 Asc/desc: URL:
EOS Aura (Earth Observing System - Aura) NASA	Approved	01-Jan-04	01-Jan-09	Chemistry and dynamics of Earth's atmosphere from the ground through the mesosphere	HiRDLS, MLS (EOS-Aura), OMI, TES	Type: Sun-synchronous Altitude: 705km Period: 98.8mins Inclination: 98.2deg Repeat cycle: 16days LST: 13:45 Longitude (if geo): Asc/desc: Ascending URL: aura.gsfc.nasa.gov/
KOMPSAT-2 (Korea Multi-Purpose Satellite 2) KARI	Approved	01-Jan-04	01-Jan-07	Cartography, land use and planning, disaster monitoring	MSC	Type:Sun-synchronous Altitude: 685km Period: 98.5mins Inclination: Repeat cycle: 28days LST: 10:50 Longitude (if geo): Asc/desc: Ascending URL: komsat.kari.re.kr/english/index.asp
PARASOL (Polarization and Anisotropy of Reflectances for Atmospheric Science coupled with Observations from a LIDAR) CNES	Approved	01-Jan-04	01-Jan-06	Micro-satellite with the aim of characterisation of the clouds and aerosols microphysical and radiative properties, needed to understand and model the radiative impact of clouds and aerosols	POLDER-P	Type: Sun-synchronous Altitude: 700km Period: Inclination: Repeat cycle: LST: 12:00 Longitude (if geo): Asc/desc: URL: www-projet.cst.cnes.fr:8060/PARASOL/index.html
SAGE III/FOO (SAGE III flight of opportunity) NASA	Planned	01-Jan-04	01-Jan-09	Stratospheric Aerosols and Gas Monitoring. A flight of opportunity is being sought for the SAGE III instrument	SAGE III	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www-sage3.larc.nasa.gov/
SICH-2 NSAU	Considered	01-Jan-04	01-Jan-09	Physical Oceanography, Hydrometeorology, Land Observation	MSU-UM, SU-UMS, SU-VR	Type: Sun-synchronous Altitude: 650km Period: 98mins Inclination: 98deg Repeat cycle: LST: 10:50 Longitude (if geo): Asc/desc: URL:

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
Triana NASA	Approved	01-Jan-04	01-Jan-08	Continuously observes the sunlit Earth (full disk) - transmitting an image every 15 minutes for distribution by internet. Studies how solar radiation affects climate. Will be positioned at the Lagrange point between Earth and sun. Launch date TBD	EPIC, NISTAR, Plasma-Mag	Type: TBD Altitude: Lagrange 1km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: triana.gsfc.nasa.gov/home/
DMSP F-17 (Defence Meteorological Satellite Program F-17) NOAA	Approved	01-Feb-04	01-Jun-07	The long-term meteorological programme of the US Department of Defense (DoD) - with the objective to collect and disseminate worldwide cloud cover data on a daily basis	OLS, SSIES-3, SSJ/5, SSM, SSM/T-1, SSMIS, SSULI, SSUSI	Type: Sun-synchronous Altitude: 850km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
RADARSAT-2 CSA	Approved	01-Mar-04	01-Feb-11	Environmental monitoring, physical oceanography, ice and snow, land surface	SAR (RADARSAT-2)	Type: Sun-synchronous Altitude: 798km Period: 100.7mins Inclination: 98.6deg Repeat cycle: 24days LST: 18:00 Longitude (if geo): Asc/desc: Ascending URL: www.space.gc.ca/csa_sectors/earth_environment/radarsat2/default.asp
CALIPSO (Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations) NASA/CNES	Approved	01-Apr-04	01-Apr-07	Measurements of aerosol and cloud properties for climate predictions, using a 3 channel lidar and passive instruments in formation with Aqua and CloudSat for coincident observations of radiative fluxes and atmospheric state	IIR, Lidar, WFC	Type: Sun-synchronous Altitude: 705km - formation with Aqua Period: Inclination: 98.2deg Repeat cycle: LST: 13:30 Longitude (if geo): Asc/desc: Ascending URL: www-essp3.larc.nasa.gov/outreach.html
CRYOSAT (CryoSat (Earth Explorer Opportunity Mission)) ESA	Approved	01-Apr-04	01-Apr-07	A radar altimetry mission to determine variations in the thickness of the Earth's continental ice sheets and marine ice cover. Primary objective is to test the prediction of thinning arctic ice due to global warming	DORIS-NG, Laser reflectors (ESA), SIRAL	Type: Inclined, non-sunsynchronous Altitude: 720km Period: mins Inclination: 92deg Repeat cycle: days LST: Longitude (if geo): Asc/desc: TBD URL: www.esa.int/export/esaLP/cryosat.html
CloudSat NASA	Approved	01-Apr-04	01-Apr-06	CloudSAT will use advanced radar to 'slice' through clouds to see their vertical structure, providing a completely new observational capability from space. One of first satellites to study clouds on global basis. Will fly in formation with Aqua	CPR (CloudSat)	Type: Sun-synchronous Altitude: 705km in formation with Aqua Period: Inclination: 98.2deg Repeat cycle: LST: 13:35 Longitude (if geo): Asc/desc: Ascending URL: www.earth.nasa.gov/missions/ref_web/mcloud.htm

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
GOES-0 (Geostationary Operational Environmental Satellite - 0) NOAA	Approved	01-Apr-04	01-Apr-09	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, SEM (GOES), S&R (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 75 Asc/desc: URL: www.oso.noaa.gov/goes/
ALOS (Advanced Land Observing Satellite) NASDA	Approved	01-Jun-04	01-Jun-09	Cartography, digital terrain models, environmental monitoring, disaster monitoring, civil planning, agriculture and forestry. Earth resources, land surface	AVNIR-2, PALSAR, PRISM (ALOS)	Type: Sun-synchronous Altitude: 692km Period: 98.7mins Inclination: 98.16deg Repeat cycle: 46days LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: www.nasda.go.jp/sat/alos/
NOAA-N (National Oceanic and atmospheric Administration - N) NOAA	Approved	01-Jun-04	01-Mar-08	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis, search and rescue	AMSU-A, ARGOS, AVHRR/3, HIRS/4, MHS, NOAA Comms, S&R (NOAA), SBUV/2, SEM (POES)	Type: Sun-synchronous Altitude: 870km Period: 102.1mins Inclination: 98.75deg Repeat cycle: LST: 14:00 Longitude (if geo): Asc/desc: Ascending URL: www.oso.noaa.gov/poes/
CARTOSAT-2 ISRO	Approved	01-Jun-04	01-Jan-09	High precision large-scale cartographic mapping of 1:10000 scale and thematic applications (with merged XS data) at 1:4000 scales	HR-PAN	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: Descending URL:
HypSEO (Hyperspectral Earth Observer) ASI	Planned	30-Jun-04	03-Jun-06	Land surface, agriculture and forestry, regional geology, land use studies, water resources, vegetation studies, coastal studies and soils	HYC	Type: Sun-synchronous Altitude: 620km Period: 97mins Inclination: 91.87deg Repeat cycle: 16days LST: 10:00 Longitude (if geo): Asc/desc: Descending URL: gpm.gsfc.nasa.gov/
SAOCOM 1A CONAE	Approved	01-Oct-04	01-Oct-09	Emergency management with an L-band SAR	IR Camera (SAOCOM), SAR (SAOCOM)	Type: Sun-synchronous Altitude: 629km Period: 96mins Inclination: 98deg Repeat cycle: 17days LST: 18:00 Longitude (if geo): Asc/desc: Descending URL: www.conae.gov.ar
DMSP F-18 (Defense Meteorological Satellite Program F-18) NOAA	Approved	01-Nov-04	01-Feb-09	The long-term meteorological programme of the US Department of Defense (DoD) - with the objective to collect and disseminate worldwide cloud cover data on a daily basis	OLS, SSIES-3, SSJ/5, SSM, SSM/T-1, SSMIS, SSULI, SSUSI	Type: Sun-synchronous Altitude: 850km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
FY-3A (FY-3A Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-04	31-Dec-06	Meteorology and environmental monitoring. Data collection and redistribution	IRAS, MVIRS, MVIRS, MWAS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
VCL (Vegetation Canopy Lidar) NASA	Approved	01-Jan-05	01-May-06	Aim is to characterise the 3-D structure of the Earth. Objectives are: land cover characterisation for terrestrial ecosystem and climate modelling; global reference data set of topographic spot heights, transects. Launch date TBD	GPSDR, MBLA	Type: Inclined, non-sunsynchronous Altitude: 390-410km Period: Inclination: 67deg Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: essp.gsfc.nasa.gov/vcl/
Resurs 1 N5 Rosaviakosmos	Planned	01-Jan-05	31-Dec-08	Environmental monitoring, agriculture and forestry, hydrology, hydrometeorology, ice and snow, land surface, agriculture, disaster management	OEK DZZ WR	Type: Sun-synchronous Altitude: 680km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
GOMS/Electro N2 (Geostationary Operational Meteorological Satellite -2) Roshydromet	Approved	01-Jan-05	31-Dec-09	Hydrometeorology, climatology, disaster management, space environment, ice and snow, land surface, space environment, data collection and communication	BRK, MSU-GS, RMS	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -76 Asc/desc: URL: sputnik1.infospace.ru/
METEOR-3M N2 Roshydromet	Approved	01-Jan-05	31-Dec-09	Hydrometeorology, climatology, land surface, physical oceanography, heliogeophysics and space environment, data collection, sounding of the atmosphere, agriculture	BRK, GALS-M, IKFS-2, IR Sounder, MSGI-MKA, MSU-MR, MTVZA, RIMS-M, SKL-M	Type: Sun-synchronous Altitude: 1024km Period: 105.3mins Inclination: 99.6deg Repeat cycle: LST: 10:50 Longitude (if geo): Asc/desc: Ascending URL: sputnik1.infospace.ru
OCEANSAT-2 ISRO	Planned	01-Jan-05	01-Jan-10	Ocean and atmosphere applications	OCM, Scatterometer (ISRO)	Type: Sun-synchronous Altitude: 720km Period: 99.31mins Inclination: 98.28deg Repeat cycle: 2days LST: 12:00 Longitude (if geo): Asc/desc: Descending URL:
MSG-2 (Meteosat Second Generation-2) EUMETSAT	Approved	23-Jan-05	23-Jan-12	Meteorology, climatology, Atmospheric dynamics/water and energy cycles	GERB, MSG Comms, SEVIRI	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 0 Asc/desc: N/A URL: www.eumetsat.de/en/area4/topic1.html
ISS (International Space Station) NASA	Approved	01-Feb-05	01-Feb-10	Various applications, including platform for EO sensors. Dates here refer to SAGE III instrument on ISS	SAGE III	Type: Inclined, non-sunsynchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: spaceflight.nasa.gov/station/
TerraSAR-X (TerraSAR-X band) DLR	Approved	01-Jul-05	30-Jun-10	Cartography, land surface, civil planning and mapping, digital terrain models, environmental monitoring	X-Band SAR	Type: Sun-synchronous Altitude: 515km Period: 94.85mins Inclination: 97.4deg Repeat cycle: 11days LST: 18:00 Longitude (if geo): Asc/desc: Ascending URL: www.infoterra-global.com/terrasar.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
MTSAT-2 (Multi-functional Transport Satellite) JMA	Approved	01-Sep-05	01-Sep-10	Meteorology, aeronautical applications	IMAGER/ MTS AT-2, MTSAT Comms	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -140 Asc/desc: N/A URL:
EO-3 (GIFTS) (New Millennium Program EO-3 (GIFTS)) NASA	Approved	01-Nov-05	01-Nov-12	Continuous observation of atmospheric temperature, water vapour content and distribution, and the concentration of certain other atmospheric gases as a function of altitude over time - providing a new way to observe weather and the changing atmosphere	GIFTS	Type: Geostationary Altitude: Geo Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: nmp.jpl.nasa.gov/eo3/index.html
GOCE (Gravity Field and Steady-State Ocean Circulation Explorer [Earth Explorer Core Mission]) ESA	Approved	01-Dec-05	01-Dec-07	Research in steady-state ocean circulation, physics of Earth's interior and levelling systems (based on GPS). Will also provide unique data set required to formulate global and regional models of the Earth's gravity field and geoid	EGG, GPS (ESA), Laser reflectors (ESA)	Type: Sun-synchronous Altitude: 250km Period: Inclination: 96.5deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.esa.int/export/esaLP/goce.html
METOP-1 (Meteorological Operational Polar Satellite - 1) EUMETSAT	Approved	01-Dec-05	01-Dec-10	Meteorology, climatology	AMSU-A, ARGOS, ASCAT, AVHRR/3, GOME-2, GRAS, HIRS/4, IASI, MCP, MHS, S&R (NOAA)	Type:Sun-synchronous Altitude: 840km Period: 101.7mins Inclination: 98.8deg Repeat cycle: 5days LST: 09:30 Longitude (if geo): Asc/desc: Descending URL: www.eumetsat.de/en/area4/topic2.html
SSR-1 (Satilite de Sensoriamento Remoto) INPE	Planned	01-Dec-05	01-Dec-09	Earth resources, environmental monitoring, land surface	OBA	Type: Inclined, non-sunsynchronous Altitude:905km Period: 103mins Inclination: 0deg Repeat cycle: LST: Longitude (if geo): Asc/desc: N/A URL: www.inpe.br/programas/mecb/default.htm
BISSAT (Bistatic SAR mission) ASI	Considered	01-Jan-06	01-Jan-08	Evaluation of bistatic radar cross section of natural and man-made targets, image classification, land surface. Receive-only satellite in formation with main mission (eg COSMO-Skymed or ENVISAT)	BISSAT	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
CBERS-3 (China Brazil Earth Resources Satellite - 3) CAST INPE	Considered	01-Jan-06	01-Jan-09	Earth resources, environmental monitoring, land surface	CCD, DCP, IR-MSS, PAN MUX, WFI	Type: Sun-synchronous Altitude: 778km Period: 100.26mins Inclination: 98.5deg Repeat cycle: 27days LST: 11:50 Longitude (if geo): Asc/desc: Descending URL: www.inpe.br/programas/cbers/english/index.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
ESPERIA (Earthquake investigations by Satellite and Physics of the Environment Related to the Ionosphere and Atmosphere) ASI	Considered	01-Jan-06	01-Jan-08	Study of perturbations in the atmosphere and ionosphere caused by electromagnetic waves, short term earthquake prediction	EMA, GPS, LP/RPA, PDA	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
FOURIER ASI	Considered	01-Jan-06	01-Jan-08	Atmospheric physics, radiative properties, climate change	Hycam, Lagrange, PFS	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
RESOURCESAT 2	Planned	01-Jan-06	01-Jan-11	Natural Resources Management: Agricultural applications; Forestry	AWiFS, LISS-III, LISS-IV	Type: Sun-synchronous Altitude: 817km Period: 102mins Inclination: 98,72deg Repeat cycle: 26 days LST: Longitude (if geo): Asc/desc: Descending URL:
IGPM ASI	Considered	01-Jan-06	01-Jan-08	Global water and energy cycle	IGPM	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
LAGEOS-3 (Laser Geodynamics Satellite -3) NASA/ASI	Planned	01-Jan-06	01-Jan-46	Geodesy, crustal motion and gravity field measurements by laser ranging. Launch TBD - dates given are for illustration only	LRA (LAGEOS)	Type: Inclined, non-sunsynchronous Altitude: 5900km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.laeff.esa.es/eng/laeff/activity/lageos3.html
MEGHA-TROPIQUES CNES/ISRO	Approved	01-Jan-06	01-Jan-11	Study of the inter-tropical zone and its convective systems (water and energy cycles)	MADRAS, SAPHIR, ScaRaB/MV2	Type: Sun-synchronous Altitude: 867km Period: 100mins Inclination: 20deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Descending URL: www.cnes.fr/espace_pro/communiqués/cp2001/5_17_va.html
REFIR (Radiation Explorer in the Far IR) ASI	Considered	01-Jan-06	01-Jan-08	Study of radiation processes for climate change, study of water vapour feedback processes and gaseous forcing	REI, RFTS, RTER	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.refir.org/
SMOS (Soil Moisture and Ocean Salinity (Earth Explorer Opportunity Mission)) ESA	Approved	01-Jan-06	01-Jan-09	Overall objectives are to provide global observations of two crucial variables for modelling the weather and climate. Soil Moisture and Ocean Salinity. It will also monitor the vegetation water content, snow cover and ice structure	MIRAS	Type: Sun-synchronous Altitude: 755km Period: Inclination: 98.43deg Repeat cycle: LST: 06:00 Longitude (if geo): Asc/desc: Ascending URL: www.esa.int/export/esaLP/smos.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
TerraSAR-L (TerraSAR L band) BNSC	Considered	01-Jan-06	01-Jan-11	SAR imagery in support of agriculture, forestry etc.	L-SAR	Type: TBD Altitude: 660km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.infoterra-global.com/terrasar/html
VISIR ASI	Considered	01-Jan-06	01-Jan-08	Ocean Colour, Sea surface Temperature, columnar content of Atmospheric aerosol particles, bio-geo-chemical fluxes through vegetation, air sea fluxes of energy, hydrological analysis	TIR, VNIR	Type:Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
RISAT 1 (Radar Imaging Satellite) ISRO	Planned	01-Jan-06	01-Jan-11	Land surface, agriculture and forestry, regional geology, land use studies, water resources, vegetation studies, coastal studies and soils - Specially during cloud season	SAR (RISAT)	Type: Sun-synchronous Altitude: 586km Period: 96.5mins Inclination: Repeat cycle: 12 days LST: 06:00 Longitude (if geo): Asc/desc: Descending URL:
GOES-P (Geostationary Operational Environmental Satellite - P) NOAA	Approved	01-Apr-06	01-Apr-11	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, SEM (GOES), S&R (GOES), Sounder, SXI, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.oso.noaa.gov/goes/
NPP (NPOESS Preparatory Project) NOAA/NASA	Approved	01-Jun-06	01-Jun-11	Meteorological, climatic, terrestrial and oceanographic applications; global and regional environmental monitoring	ATMS, CrIS, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: Repeat cycle: LST: 10:30 Longitude (if geo): Asc/desc: Descending URL: jointmission.gsfc.nasa.gov/
PICARD CNES	Approved	01-Jun-06	01-Aug-08	Simultaneous measurements of solar diameter, differential rotation, solar constant and variability	PREMOS, SODISM, SOVAP	Type: TBD Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
SCD-3 (Data Collecting Satellite 3) INPE	Planned	01-Dec-06	01-Dec-10	Data collection and communication	DCP (SCD)	Type: Inclined, non-sunsynchronous Altitude: 1100km Period: 107mins Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.inpe.br/programas/mecb/default.htm
Jason-2 NASA/CNES/ NOAA/ EUMETSAT	Planned	07-Dec-06	07-Dec-11	Physical oceanography, geodesy/gravity, climate monitoring, marine meteorology	DORIS-NG, JMR, LRA, POSEIDON-2 (SSALT-2), TRSR	Type: Inclined, non-sunsynchronous Altitude: 1336km Period: 122.4mins Inclination: 66deg Repeat cycle: 10days LST: Longitude (if geo): Asc/desc: N/A URL: ilrs.gsfc.nasa.gov/ilrs/jason1.html

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
FY-2D (FY-2D Geostationary Meteorological Satellite) NRSCC	Planned	31-Dec-06	31-Dec-09	Meteorology and environmental monitoring Data collection and redistribution	IVISSR (FY-2)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -105 Asc/desc: URL:
FY-3B (FY-3B Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-06	31-Dec-08	Meteorology and environmental monitoring. Data collection and redistribution	IRAS, MVIRS, MWAS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
ADM-Aeolus (Atmospheric Dynamics Mission (Earth Explorer Core Mission)) ESA	Approved	01-Jan-07	01-Jan-10	Will provide wind profile measurements for global 3-D wind field products used for study of atmospheric dynamics, including global transport of energy, water, aerosols and chemicals	ALADIN	Type: Inclined, Sun-synchronous Altitude: 408km Period: Inclination: 96.99deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.esa.int/export/esaLP/aeolus.html
GCOM-A1 (Global Change Observation Mission) NASDA	Considered	01-Feb-07	01-Feb-12	Understanding of ozone and greenhouse gas circulation to assist prediction of ozone layer and atmospheric composition variabilities	OPUS, SOFIS, SWIFT	Type: Inclined, non-sunsynchronous Altitude: 650km Period: 98mins Inclination: 70deg Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
DMSP F-19 (Defense Meteorological Satellite Program F-19) NOAA	Approved	01-Jun-07	01-Sep-10	The long-term meteorological programme of the US Department of Defense (DoD) - with the objective to collect and disseminate worldwide cloud cover data on a daily basis	OLS, SSIES-3, SSJ/5, SSM, SSM/T-1, SSMIS, SSULI, SSUSI	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
GPM (Global Precipitation Measurement Mission) NASA/NASDA	Planned	01-Nov-07	01-Nov-12	Study of global precipitation to improve climate, weather, and global water cycle/hydrological predictions. The mission comprises a primary spacecraft with active and passive microwave instruments and a number of constellation spacecraft with passive microwave instruments	DPR, GMI	Primary Satellite Type: Inclined Altitude: ~400 km Period: Inclination: 65 degrees Repeat Cycle: Constellation Satellite Type: Sun-synchronous Altitude: ~600 km Period: Inclination: Repeat cycle: LST: Asc/desc: URL: gpm.gsfc.nasa.gov
SSR-2 (Satellite de Sensoriamento Remoto 2) INPE	Considered	01-Dec-07	01-Dec-11	Earth resources, environmental monitoring, land surface	OBA	Type: Inclined, non-sunsynchronous Altitude: 905km Period: 103mins Inclination: 0deg Repeat cycle: 16days LST: Longitude (if geo): Asc/desc: URL: www.inpe.br/programas/mecb/default.htm

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
CBERS-4 (China Brazil Earth Resources Satellite -4) CAST/INPE	Considered	01-Jan-08	01-Jan-11	Earth resources, environmental monitoring, land surface	CCD, DCP, IR-MSS, PAN MUX, WFI	Type:Sun-synchronous Altitude: 778km Period: 100.26mins Inclination: 98.5deg Repeat cycle: 28days LST: 12:50 Longitude (if geo): Asc/desc: Descending URL: www.inpe.br/programas/cbers/english/index.html
ESA Future Missions ESA	Considered	01-Jan-08	01-Jan-18	Physical Oceanography, land surface, ice and snow, atmospheric dynamics/water and energy cycles	ATLID, COALA, CPR, MASTER, MIPAS, MWR-2, SCATTERO-METER, SOPRANO, SPECTRA, WALES	Type: TBD Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
NOAA-N' (National Oceanic and Atmospheric Administration - N') NOAA	Approved	01-Mar-08	01-Dec-11	Meteorology, agriculture and forestry, environmental monitoring, climatology, physical oceanography, Volcanic eruption monitoring, ice and snow cover, total ozone studies, space environment, solar flux analysis, search and rescue	AMSU-A, ARGOS, AVHRR/3, HIRS/4, MHS, NOAA Comms, S&R (NOAA), SBUV/2, SEM (POES)	Type: Sun-synchronous Altitude: 870km Period: 102.1mins Inclination: 98.75deg Repeat cycle: LST: 14:00 Longitude (if geo): Asc/desc: Ascending URL: www.oso.noaa.gov/poes/
GOES-Q (Geostationary Operational Environmental Satellite - Q) NOAA	Approved	01-Apr-08	01-Apr-13	Meteorology (primary mission), search and rescue, space environment monitoring, data collection platform, data gathering, WEFAX	DCS (NOAA), GOES Comms, Imager, SEM (GOES), S&R (GOES), Sounder, WEFAX	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.oso.noaa.gov/goes/
MSG-3 (Meteosat Second Generation-3) EUMETSAT	Approved	01-Jun-08	01-Jun-15	Meteorology, climatology, Atmospheric dynamics/water and energy cycles	GERB, MSG Comms, SEVIRI	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): 0 Asc/desc: N/A URL: www.eumetsat.de/en/area4/topic1.html
FY-3C (FY-3C Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-08	31-Dec-10	Meteorology and environmental monitoring. Data collection and redistribution	IMWAS, IRAS, MIRAS, MVIRES, MWHS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
DMSP F-20 (Defence Meteorological Satellite Program F-20) NOAA	Approved	01-Feb-09	01-Apr-13	The long-term meteorological programme of the US Department of Defense (DOD) - with the objective to collect and disseminate worldwide cloud cover data on a daily basis	OLS, SSIES-3, SSJ/5, SSM, SSM/T-1, SSMIS, SSULI, SSUSI	Type: Sun-synchronous Altitude: 850km Period: 101mins Inclination: 98.7deg Repeat cycle: LST: Longitude (if geo): Asc/desc: Ascending URL: www.ngdc.noaa.gov/dmsp/dmsp.html
NPOESS-1 (National Polar-orbiting Operational Environmental Satellite System - 1) NOAA	Approved	01-Apr-09	01-Jan-15	Meteorological, climatic, terrestrial, oceanographic, and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, APS, CMIS, SARSAT, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 21:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
FY-2E (FY-2E Geostationary Meteorological Satellite) NRSCC	Planned	31-Dec-09	31-Dec-12	Meteorology and environmental monitoring Data collection and redistribution	IVISSR (FY-2)	Type: Geostationary Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): -105 Asc/desc: URL:
GOMS/Electro N3 (Geostationary Operational Meteorological Satellite - 3) Roshydromet	Planned	01-Jan-10	31-Dec-15	Hydrometeorology, climatology, disaster management, space environment, ice and snow, land surface, space environment, data collection and communication	BRK, MSU-GS	Type: Geostationary Altitude: 36000km Period: Inclination: Repeat cycle: LST: Longitude (if geo): -76 Asc/desc: URL: www.sputnik1.infospace.ru/
METEOR-3M N3 Roshydromet	Planned	01-Jan-10	31-Dec-15	Hydrometeorology, climatology, land surface, physical oceanography, heliogeophysics and space environment, data collection, sounding of the atmosphere, agriculture	BRK, GALS-M, IKFS-2, MSGI-MKI, MSU-MR, MTVZA, RIMS-M, SKL-M	Type: Sun-synchronous Altitude: 1000km Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL: www.sputnik1.infospace.ru
METOP-2 (Meteorological Operational Polar Satellite - 2) NASA	Approved	30-Jun-10	30-Jun-15	Meteorology, climatology	AMSU-A, ARGOS, ASCAT, AVHRR/3, GOME-2, GRAS, HIRS/4, IASI, MCP, MHS, S&R (NOAA), SEM (POES)	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: 09:30 Longitude (if geo): Asc/desc: N/A URL: www.eumetsat.de/en/area4/topic2.html
FY-3D (FY-3D Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-10	31-Dec-12	Meteorology and environmental monitoring Data collection and redistribution	IMWAS, IRAS, MIRAS, MVIRS, MWHS, MWRI, OP, TOM, VIRR	Type:Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
NPOESS-2 (National Polar-orbiting Operational Environmental Satellite System - 2) NOAAI	Approved	01-Jun-11	01-Jan-17	Meteorological, climatic, terrestrial, oceanographic, and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, ATMS, CERES, CMIS, CrIS, GPSOS, OMPS, SARSAT, SESS, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 13:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov
FY-3E (FY-3E Polar-orbiting meteorological Satellite) NRSCC	Planned	31-Dec-12	31-Dec-14	Meteorology and environmental monitoring Data collection and redistribution	IMWAS, IRAS, MIRAS, MVIRS, MWHS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:

Mission	Status	Launch date	EOL date	Applications	Instruments	Orbit details & URL
NPOESS-3 (National Polar-orbiting Operational Environmental Satellite System - 3) NOAA	Approved	01-Apr-13	01-Sept-18	Meteorological, climatic, terrestrial, oceanographic and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, ALT, CMIS, CrIS, ERBS, GPSOS, S&R (NOAA), SRSAT, SESS, TSIS, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 17:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov
FY-3F (FY-3F Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-14	31-Dec-16	Meteorology and environmental monitoring Data collection redistribution	IMWAS, IRAS, MIRAS, MVIRS, MWHS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
NPOESS-4 (National Polar-orbiting Operational environmental Satellite Systems - 4) NOAA	Approved	01-Jan-15	01-Jun-20	Meteorological, climatic, terrestrial, oceanographic, and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, APS, CMIS, SRSAT, VIIRS	Type:Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 21:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov
METOP-3 (Meteorological Operational Polar Satellite - 3) EUMETSAT	Approved	30-Jun-15	30-Jun-20	Meteorology, climatology	ARGOS, ASCAT, AVHRR/3, GRAS, IASI, MCP, MHS	Type: Sun-synchronous Altitude: 840km Period: 101.7mins Inclination: 98.8deg Repeat cycle: 5days LST: 09:30 Longitude (if geo): Asc/desc: Descending URL: www.eumetsat.de/en/area4/topic2/html
FY-3G (FY-3G Polar-orbiting Meteorological Satellite) NRSCC	Planned	31-Dec-16	31-Dec-18	Meteorology and environmental monitoring Data collection and redistribution	IMWAS, IRAS, MIRAS, MVIRS, MWHS, MWRI, OP, TOM, VIRR	Type: Sun-synchronous Altitude: Period: Inclination: Repeat cycle: LST: Longitude (if geo): Asc/desc: URL:
NPOESS-5 (National Polar-orbiting Operational Environmental Satellite System - 4) NOAA	Approved	01-Jan-17	01-Jun-22	Meteorological, climatic, terrestrial, oceanographic, and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, ATMS, CMIS, CrIS, GPSOS, OMPS, SRSAT, SESS, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 13:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov
NPOESS-6 (National Polar-orbiting Operational Environmental Satellite System - 4) NOAA	Approved	01-Sep-18	01-Jan-24	Meteorological, climatic, terrestrial, oceanographic, and solar-geophysical applications; global and regional environmental monitoring, search and rescue, data collection	A-DCS, ALT, CMIS, ERBS, GPSOS, SRSAT, SESS, TSIS, VIIRS	Type: Sun-synchronous Altitude: 833km Period: 101mins Inclination: 98.75deg Repeat cycle: LST: 17:30 Longitude (if geo): Asc/desc: Ascending URL: www.npoess.noaa.gov