

Mission	Agency	Programme	Key Instruments	Applications	Further Information
Aura	NASA	Earth Observing System (EOS)	HIRDLS, MLS, OMI, TES	Earth's ozone layer, air quality and climate.	<a href="#">Aura</a>
Envisat	ESA	Envisat Programme	AATSR, ASAR, ASAR (image mode), ASAR (wave mode), DORIS-NG, MERIS, MIPAS, MWR, RA-2, SCIAMACHY	Physical oceanography, land surface, ice and snow, atmospheric chemistry, atmospheric dynamics	<a href="#">Envisat</a>
ERS-1	ESA	ESA	AMI/SAR/Image, AMI/SAR/Wave, AMI/Scatterometer, ATSR	Earth resources, physical oceanography, land, geodesy, atmosphere	<a href="#">ERS-1</a>
ERS-2	ESA	ESA	AMI/SAR/Image, AMI/SAR/Wave, AMI/Scatterometer, ATSR/M	Earth resources, physical oceanography, land, geodesy, atmosphere	<a href="#">ERS-2</a>
GoSat	JAXA	GCOM (Global Change Observation Mission)	TANSO-FTS (greenhouse gas observation sensor), TANSO-CAI (cloud/aerosol sensor)	Atmosphere	<a href="#">GoSat</a>
Metop-A	EUMETSAT/NOAA/CNES/ESA	MetOp Programme	GOME-2, IASI, AMSU-A	Meteorology, climatology	<a href="#">Metop-A</a>
Metop-B	EUMETSAT/NOAA/CNES/ESA	MetOp Programme	GOME-2, IASI, AMSU-A	Meteorology, climatology	<a href="#">Metop-B</a>
Metop-C (Future mission)	EUMETSAT/NOAA/CNES/ESA	MetOp Programme	GOME-2, IASI, AMSU-A	Meteorology, climatology	

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Meteosat Second Generation (8, 9, 10, 11)	EUMETSAT/ESA	Meteosat Second Generation (MSG) program.	GERB, MSG Comms, SEVIRI	Meteorology, climatology	MSG
Meteosat Third Generation (4 Imaging Satellites (MTG-I), 2 Sounding satellites(MTG-S) (Future missions)	EUMETSAT/ESA	Meteosat Third Generation (MTG) program	<u>MTG-I:</u> FCI (Flexible Combined Imager), LI (Lightning Imager).  <u>MTG-S:</u> IRS (Infrared Sounder), UVN (Ultraviolet Visible Near-	Meteorology, climatology	MTG
OCO-2	NASA	Orbiting Carbon Observatory	Three high resolution grating spectrometers	Climatology – CO <sub>2</sub>	OCO-2
Sentinel-3	ESA/EUMETSAT	Copernicus	OLCI (Ocean and Land Colour Instrument) – can measure the atmospheric composition (mainly aerosols and water vapour), illumination condition, and downwelling solar radiation.	Global land and ocean monitoring services	Sentinel-3
Sentinel-4 (Future mission)	ESA/EUMETSAT	Copernicus	UVN (Multispectral Spectrometer), (IRS) Infra-Red Sounder	Atmosphere	Sentinel-4

**Course EO Satellite Missions Table**

<b>Mission</b>	<b>Agency</b>	<b>Programme</b>	<b>Key Instruments</b>	<b>Applications</b>	<b>Further Information</b>
Sentinel-5p	ESA	Copernicus	Tropomi - TROPOspheric Monitoring Instrument	Air pollution	Sentinel-5p
Sentinel-5 (Future mission)	ESA	Copernicus	UVNS (Ultraviolet Visible Near-infrared Shortwave)	Atmosphere	Sentinel-5
SUOMI NPP	NOAA, NASA	Polar Orbiting Missions	ATMS, OMPS, VIIRS, CERES	Climatology	
Terra	NASA/METI/CSA	NASA's Earth Observing System	MODIS, MOPITT, MISR, ASTER, CERES	Biological and physical processes, surface temperatures of land and ocean, measurements of CO in the troposphere	Terra