Remote Sensing Products

SAMPLING OF SATELLITE-BASED REMOTE SENSING PRODUCTS

Product	Sensor	Satellite
Sea surface temperature	AVHRR	NOAA POESS
	Poseidon radar altimeter	Jason
Stratospheric ozone	TOMS	Nimbus-7, Meteor-3
	OMI	Aura
Global cloud patterns Local cloud patterns	Imager	NOAA POES
	MODIS	Terra, Aqua
	Lidar, Vis/IR imager	Calipso
Weather, climate, oceans, environment	ABI	GOES-16
Aerosol optical density	AVHRR	NOAA-14
	OMI	Aura
Fire and smoke	MODIS	Terra, Aqua
Lightning	GLM	GOES-16
Carbon dioxide, carbon compounds	OCO	OCO-2
Land surface, ocean surface (Hi-Res IR)	MODIS, MISR	Terra, Aqua
Land surface (Hi-Res multi-angle)	MODIS, MISR	Terra, Aqua
Land use, vegetative index	OLI	Landsat-8
Ocean salinity	Aquarius	Aquarius spacecraft
Tropical rainfall	TRMM Microwave Imager	Tropical Rainfall Measuring Misson spacecraft
Global precipitation	GPM microwave imager Dual frequency precipitation radar	GPM Core Observatory
Droughts, floods, biogeochemical cycles	Soil moisture radar	SMAP
Sea surface wind speed	SeaWinds scatterometer	QuickSCAT
Ocean color, chlorophyll, Ocean productivity	SeaWIFS	SeaSTAR
Gravity	GRACE	GRACE
Space environment	SEISS	GOES-16
Solar flares, coronal holes, coronal mass ejections	SUVI	GOES-16
Solar flares that disrupt communications	EXIS	GOES-16

Though only a small sampling of Earth-looking satellite missions, this table highlights the multiplicitous nature of satellite remote sensing. That is, data for one product may be generated by more than one sensor just as each sensor may generate data for more than one product.