Which Satellite is Right For Me?

NASA Earth Observations

Application Areas

Platform	Instruments	Water Resources	Health & Air Quality	Climate	Agriculture	Weather	Ecological Forecasting	Disasters	Oceans	Energy	Frequency & Resolution	Format
ACRIMSAT (1999 - 2013)	**ACRIM3** (Active Cavity Radiometer Irradiance Monitor)	Total Solar Irradiance		Total Solar Irradiance	Total Solar Irradiance		Total Solar Irradiance			Total Solar Irradiance	**ACRIM3:** Daily **ACRIM3:** 5°	Raw
Aqua (2002)	**AIRS** (Atmospheric Infrared Sounder)	Land Surface Temperature Temperature Profile Water Vapor Profile Total Precipitable Water	Land Surface Temperature Land Surface Emissivity Temperature Profile Outgoing LW Radiation Total Ozone Column Ozone Profile Carbon Monoxide Carbon Dioxide Sulfur Dioxide Methane Nitric Acid IR Dust	Sea Surface Temperature Land Surface Temperature Temperature Profile Water Vapor Profile Total Precipitable Water Land Surface Emissivity Total Ozone Column Ozone Profile	Land Surface Temperature Temperature Profile Water Vapor Profile Total Precipitable Water Land Surface Emissivity	Sea Surface Temperature Land Surface Temperature Temperature Profile Water Vapor Profile Total Precipitable Water Fractional Cloud Cover Cloud Top height Cloud Top Temperature	Sea Surface Temperature Land Surface Temperature Temperature Profile Water Vapor Profile Total Precipitable Water Land Surface Emissivity	Sea Surface Temperature Land Surface Temperature Land Surface Emissivity Outgoing LW Radiation Temperature Profile Water Vapor Profile Total Precipitable Water Total Ozone Column Ozone Profile Carbon Monoxide Carbon Dioxide Sulfur Dioxide Nitric Acid Methane IR Dust	Sea Surface Temperature Water Vapor Profile Outgoing LW Radiation	Sea Surface Temperature Land Surface Temperature Outgoing LW Radiatione	**AIRS:** Twice Daily **MODIS:** 1-2 Days **AMSR-E:** Daily **AIRS:** 14km, 50km, 1° **MODIS:** 200m, 500m, 1000m **AMSR-E:** 5.4km, 12km, 21km, 38km	Ascii GeoTIFF NetCDF HDF5
	MODIS (Moderate-Resolution Imaging Spectroradiometer)	Total Precipitable Water Land Surface Temp & Emissivity Land Cover Products Water Mask	Aerosol Product Atmospheric Profiles Atmosphere Joint Product Atmosphere Gridded Product Land Surface Temp & Emissivity	Total Precipitable Water Atmospheric Profiles Atmosphere Joint Product Atmosphere Gridded Product Land Surface Temp & Emissivity Snow Cover Sea Ice & Ice Surface Temperature Sea Surface Temperature	Total Precipitable Water Land Surface Temp & Emissivity Land Cover Products Vegetation Continuous Fields Vegetation Index Products (NDVI & EVI) Instantaneous Photosynthetically Available Radiation Daily Mean Photosynthetically Available Radiation Gross Primary Productivity (GPP) / Net Primary Productivity (NPP) Fraction of Photosynthetically Active Radiation (FPAR) / Leaf Area Index (LAI) Evapotranspiration	Aerosol Product Cloud Product Atmospheric Profiles Atmosphere Joint Product Atmosphere Gridded Product Land Surface Temp & Emissivity Bidirectional Reflectance Distribution Function (BRDF) / Albedo Parameter	Aerosol Product Total Precipitable Water Land Surface Temp & Emissivity Land Cover Products Vegetation Continuous Fields Vegetation Index Products (NDVI & EVI) Instantaneous Photosynthetically Available Radiation Daily Mean Photosynthetically Available Radiation Gross Primary Productivity (GPP) / Net Primary Productivity (NPP) Fraction of Photosynthetically Active Radiation (FPAR) / Leaf Area Index (LAI) Evapotranspiration Snow Cover Sea Ice & Ice Surface Temperature Sea Surface Temperature	Aerosol Product Total Precipitable Water Atmospheric Profiles Atmosphere Joint Product Atmosphere Gridded Product Land Surface Temp & Emissivity Land Cover Products Thermal Anomalies - Active Fires	Surface Reflectance Bidirectional Reflectance Distribution Function (BRDF) / Albedo Parameter Sea Ice & Ice Surface Temperature Sea Surface Temperature Diffuse Attenuation at 490 nm Particulate Organic Carbon Particulate Inorganic Carbon Fluorescence Line Height (FLH) Sub-surface Chlorophyll-a Concentration	Land Surface Temp & Emissivity Land Cover Products		
	AMSR-E (Advanced Microwave Scanning Radiometer for the Earth Observing System)	Precipitation Rate Soil Moisture Surface Wetness Snow Water Equivalent	Wind Speed Atmospheric Cloud Water Water Vapor	Precipitation Rate Sea Surface Temperature Sea Ice Concentration Snow Water Equivalent Soil Moisture Surface Wetness Wind Speed Atmospheric Cloud Water Water Vapor	Precipitation Rate Soil Moisture Surface Wetness	Precipitation Rate Wind Speed Atmospheric Cloud Water Water Vapor	Precipitation Rate Soil Moisture Surface Wetness	Sea Surface Temperature Surface Wetness Wind Speed	Sea Surface Temperature Surface Wetness Wind Speed	Sea Surface Temperature Wind Speed		
AQUARIUS (2011 - 2015)	**L-band Radiometer**			Sea Surface Salinity Sea Surface Density			Sea Surface Salinity Sea Surface Density		Sea Surface Salinity Sea Surface Density		**Radiometer & Scatterometer:** Daily, Weekly, Monthly **Radiometer & Scatterometer:** 96 km x 390 km, 1°	HDF5
	L-band Scatterometer	Wind Speed	Wind Speed	Sea Surface Salinity Sea Surface Density Wind Speed	Wind Speed	Wind Speed	Sea Surface Salinity Sea Surface Density Wind Speed	Wind Speed	Sea Surface Salinity Sea Surface Density Wind Speed	Wind Speed		
Aura (2004)	**MLS** (Microwave Limb Sounder)	OH (Hydroxide) HCN (Hydrogen Cyanide) HNO3 (Nitric Acid) HOCl (Hypochlorous Acid) CLO (Hypochlorite) BrO (Hypobromite) Water Vapor Temperature	Water Vapor Temperature Geopotential Height O3 (Ozone) OH (Hydroxide) HO2 (Hydroperoxyl) CO (Carbon Monoxide) HCN (Hydrogen Cyanide) N2O (Nitrous Oxide) HNO3 (Nitric Acid) HCl (Hydrogen Chloride) HOCl (Hypochlorous Acid) CLO (Hypochlorite) BrO (Hypobromite) SO2 (Sulfur Dioxide)	Water Vapor Temperature Cirrus Ice O3 (Ozone)	Water Vapor Temperature OH (Hydroxide) HCN (Hydrogen Cyanide) HNO3 (Nitric Acid) CLO (Hypochlorite) BrO (Hypobromite)	Water Vapor Temperature Cirrus Ice Geopotential Height	Water Vapor Temperature Cirrus Ice Relative Humidity (Ice) O3 (Ozone) OH (Hydroxide) HO2 (Hydroperoxyl) CO (Carbon Monoxide) HCN (Hydrogen Cyanide) N2O (Nitrous Oxide) HNO3 (Nitric Acid) HCl (Hydrogen Chloride) HOCl (Hypochlorous Acid) CLO (Hypochlorite) BrO (Hypobromite) SO2 (Sulfur Dioxide)	Water Vapor Temperature O3 (Ozone) OH (Hydroxide) HO2 (Hydroperoxyl) CO (Carbon Monoxide) HCN (Hydrogen Cyanide) N2O (Nitrous Oxide) HNO3 (Nitric Acid) HCl (Hydrogen Chloride) HOCl (Hypochlorous Acid) CLO (Hypochlorite) BrO (Hypobromite) SO2 (Sulfur Dioxide)	Water Vapor Temperature Cirrus Ice Relative Humidity (Ice) Geopotential Height OH (Hydroxide) HCN (Hydrogen Cyanide) HNO3 (Nitric Acid) HOCl (Hypochlorous Acid) CLO (Hypochlorite) BrO (Hypobromite)	Temperature Geopotential Height	**OMI TES MLS HIRDLS:** Daily **OMI:** 13 x 24 km **TES:** 0.53 x 5.3 km **MLS:** 5 x 500 x 3 km vertical **HIRDLS:** 10 x 300 x 1 km vertical	Ascii NetCDF HDF5
	OMI (Ozone Monitoring Instrument)	HCHO (Formaldehyde) BrO (Hypobromite) OClO (Chlorine Dioxide)	O3 (Ozone) NO2 (Nitrogen Dioxide) SO2 (Sulfur Dioxide) Aerosols HCHO (Formaldehyde) BrO (Hypobromite) OClO (Chlorine Dioxide) Effective Cloud Fraction & Pressure	Aerosols Effective Cloud Fraction & Pressure Surface Erythemal UV-B Irradiances O3 (Ozone)	HCHO (Formaldehyde) BrO (Hypobromite) Surface Erythemal UV-B Irradiances	Aerosols Effective Cloud Fraction & Pressure Surface Erythemal UV-B Irradiances	O3 (Ozone) NO2 (Nitrogen Dioxide) SO2 (Sulfur Dioxide) Aerosols HCHO (Formaldehyde) BrO (Hypobromite) OClO (Chlorine Dioxide) Surface Erythemal UV-B Irradiances	O3 (Ozone) NO2 (Nitrogen Dioxide) SO2 (Sulfur Dioxide) Aerosols HCHO (Formaldehyde) BrO (Hypobromite) OClO (Chlorine Dioxide) Effective Cloud Fraction & Pressure Surface Erythemal UV-B Irradiances	HCHO (Formaldehyde) BrO (Hypobromite) OClO (Chlorine Dioxide) Effective Cloud Fraction & Pressure	Effective Cloud Fraction & Pressure Surface Erythemal UV-B Irradiances		
	HIRDLS (High-Resolution Dynamics Limb Sounder)	HNO3 (Nitric Acid) Atmospheric Temperature Geopotential Height	O3 (Ozone) HNO3 (Nitric Acid) CFC-11 CFC-12 Aerosol Extinction (12.1 micron) Atmospheric Temperature Geopotential Height Cloud Top Pressure	Atmospheric Temperature Geopotential Height Cloud Top Pressure	HNO3 (Nitric Acid)	Aerosol Extinction (12.1 micron) Atmospheric Temperature Geopotential Height Cloud Top Pressure	O3 (Ozone) HNO3 (Nitric Acid) CFC-11 CFC-12 Aerosol Extinction (12.1 micron) Atmospheric Temperature	O3 (Ozone) HNO3 (Nitric Acid) CFC-11 CFC-12 Aerosol Extinction (12.1 micron) Atmospheric Temperature Cloud Top Pressure	HNO3 (Nitric Acid) Aerosol Extinction (12.1 micron) Atmospheric Temperature Geopotential Height Cloud Top Pressure	Aerosol Extinction (12.1 micron) Atmospheric Temperature Geopotential Height		
	TES (Tropospheric Emission Spectrometer)	Atmospheric Temperature H2O HDO (Semiheavy Water) HNO3 (Nitric Acid)	Atmospheric Temperature H2O O3 (Ozone) CO (Carbon Monoxide) CH4 (Methane) HDO (Semiheavy Water) HNO3 (Nitric Acid) NH3 (Ammonia)	Atmospheric Temperature H2O HDO (Semiheavy Water) O3 (Ozone)	Atmospheric Temperature H2O CH4 (Methane) HNO3 (Nitric Acid) NH3 (Ammonia)	Atmospheric Temperature H2O HDO (Semiheavy Water)	Atmospheric Temperature H2O O3 (Ozone) CO (Carbon Monoxide) CH4 (Methane) HDO (Semiheavy Water) HNO3 (Nitric Acid) NH3 (Ammonia)	Atmospheric Temperature H2O O3 (Ozone) CO (Carbon Monoxide) CH4 (Methane) HDO (Semiheavy Water) HNO3 (Nitric Acid) NH3 (Ammonia)	Atmospheric Temperature H2O HDO (Semiheavy Water) HNO3 (Nitric Acid)	Atmospheric Temperature H2O CH4 (Methane) HDO (Semiheavy Water)		
CALIPSO (2006)	**CALIOP** (Cloud-Aerosol Lidar with Orthogonal Polarization)	Ice/Water Phase Ice Cloud Emissivity Ice Particle Size	Aerosol Height Aerosol Thickness Aerosol Optical Depth Aerosol Backscatter Aerosol Extinction Cloud Height Cloud Thickness Cloud Optical Depth Cloud Backscatter Cloud Extinction Ice/Water Phase Ice Cloud Wmissivity Ice Particle Size	Aerosol Height Aerosol Thickness Aerosol Optical Depth Aerosol Backscatter Aerosol Extinction Cloud Height Cloud Thickness Cloud Optical Depth Cloud Backscatter Cloud Extinction Ice/Water Phase Ice Cloud Wmissivity Ice Particle Size	Ice/Water Phase Ice Cloud Emissivity Ice Particle Size	Aerosol Height Aerosol Thickness Aerosol Optical Depth Aerosol Backscatter Aerosol Extinction Cloud Height Cloud Thickness Cloud Optical Depth Cloud Backscatter Cloud Extinction Ice/Water Phase Ice Cloud Wmissivity Ice Particle Size	Aerosol Height Aerosol Thickness Aerosol Optical Depth Aerosol Backscatter Aerosol Extinction Ice/Water Phase Ice Cloud Emissivity Ice Particle Size	Aerosol Height Aerosol Thickness Aerosol Optical Depth Aerosol Backscatter Aerosol Extinction Cloud Height Cloud Thickness Cloud Optical Depth Cloud Backscatter Cloud Extinction		Cloud Height Cloud Thickness Cloud Optical Depth Cloud Backscatter Cloud Extinction	**CALIOP:** Daily, 16 Day Global **CALIOP:** 1°, 1/3°, 5 km x 20, 30, 60, 120 km Vertical	HDF5
	IIR (Imaging Infrared Imager)	Effective Emissivity Surface Emissivity	Effective Emissivity Surface Emissivity Particle Size & Shape Optical Depth	Effective Emissivity Surface Emissivity Particle Size & Shape Optical Depth	Effective Emissivity Surface Emissivity	Effective Emissivity Surface Emissivity Particle Size & Shape Optical Depth	Effective Emissivity Surface Emissivity	Effective Emissivity Surface Emissivity Particle Size & Shape Optical Depth	Effective Emissivity Surface Emissivity	Effective Emissivity Surface Emissivity Optical Depth		
	WFC (Wide-Field Camera)	Radiance Reflectance			Radiance Reflectance		Radiance Reflectance		Radiance Reflectance	Radiance Reflectance		
CATS (2015)	**CATS** (Cloud-Aerosol Transport System) (Lidar)	Depolarization Ratio	Cloud Backscatter Aerosol Backscatter Depolarization Ratio Cloud Layer Height Aerosol Layer Height Cloud Layer Thickness Aerosol Layer Thickness Cloud Extinction Aerosol Extinction Depolarization-Based Discrimination of Particle Type	Cloud Backscatter Aerosol Backscatter Depolarization Ratio Cloud Layer Height Aerosol Layer Height Cloud Layer Thickness Aerosol Layer Thickness Cloud Extinction Aerosol Extinction Depolarization-Based Discrimination of Particle Type		Cloud Backscatter Aerosol Backscatter Depolarization ratio Cloud Layer Height Aerosol Layer Height Cloud Layer Thickness Aerosol Layer Thickness Cloud Extinction Aerosol Extinction Depolarization-Based Discrimination of Particle Type	Aerosol Backscatter Depolarization Ratio Aerosol Layer Height Aerosol Layer Thickness Aerosol Extinction Depolarization-Based Discrimination of Particle Type	Cloud Backscatter Aerosol Backscatter Depolarization Ratio Cloud Layer Height Aerosol Layer Height Cloud Layer Thickness Aerosol Layer Thickness Cloud Extinction Aerosol Extinction Depolarization-Based Discrimination of Particle Type	Depolarization ratio	Cloud Backscatter Depolarization Ratio Cloud Layer Height Cloud Layer Thickness Cloud Extinction	**CATS:** 3 Days **CATS:** 350 m x 60 m vertical 5 km x 60 m vertical	HDF5
CHAMP (2000 - 2010)	**DIDM** (Digital Ion Drift Meter) **FGM** (Fluxgate Magnetometer) **OVM** (Overhauser Magnetometer)	Magnetometer Data Vertical Electron Density Profiles	Vertical Electron Density Profiles	Magnetometer Data Vertical Electron Density Profiles	Magnetometer Data Vertical Electron Density Profiles	Vertical Electron Density Profiles	Magnetometer Data Vertical Electron Density Profiles	Magnetometer Data Vertical Electron Density Profiles	Magnetometer Data Vertical Electron Density Profiles		**DIDM, FGM & OVM:** Daily, Monthly, Yearly **DIDM, FGM & OVM:** 650 km	Ascii
CloudSat (2006)	**CPR** (Cloud Profiling Radar)	Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Cloud Classification Cloud Classification With Lidar Cloud Mask Cloud Mask With Lidar Cloud Optical Depth Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates	Cloud Classification Cloud Classification With Lidar Cloud Mask Cloud Mask With Lidar Cloud Optical Depth Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Cloud Classification Cloud Classification With Lidar Cloud Mask Cloud Mask With Lidar Cloud Optical Depth Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Cloud Mask Cloud Mask With Lidar Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Cloud Classification Cloud Classification With Lidar Cloud Mask Cloud Mask With Lidar Cloud Optical Depth Cloud Liquid Water Content Cloud Ice Water Content Radiative Fluxes and Heating Rates Column Precipitation Rain Profile Snow Profile	Radiative Fluxes and Heating Rates Column Precipitation Rain Profile	Cloud Mask Cloud Mask With Lidar Cloud Optical Depth Radiative Fluxes and Heating Rates	**CPR:** 2 Days **CPR:** 2 km x 500m vertical	HDF4
DSCOVR (2015)	**PlasMag** (Plasma-Magnetometer)	Magnetometer Averages Science Data Still Embargoed									Summer/Fall 2016	
	NISTAR (National Institute of Standards and Technology Advanced Radiometer)	Radiance More Products Expected to be Available Summer/Fall 2016									Summer/Fall 2016	
	EPIC (Earth Polychromatic Imaging Camera)	Earth Images of Sunlit Face More Products Expected to be Available Summer/Fall 2016									**EPIC:** 21 km	
EO -1 (2000)	**ALI** (Advanced Land Imager)	Terrain Corrected Radiance		Terrain Corrected Radiance	Terrain Corrected Radiance		Terrain Corrected Radiance	Terrain Corrected Radiance	Terrain Corrected Radiance	Terrain Corrected Radiance	**ALI & Hyperion:** Intermittent & By Request (one scene per path) **ALI & Hyperion:** 30 m	GeoTIFF HDF5
	Hyperion (Hyperspectral Instrument)	Hyperspectral Imagery		Hyperspectral Imagery	Hyperspectral Imagery		Hyperspectral Imagery	Hyperspectral Imagery	Hyperspectral Imagery	Hyperspectral Imagery		
GOES I-M (GOES -12) (1994)	**GOES I-M Imager**	Geostationary Imagery Infared Imagery Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	Geostationary Imagery Infared Imagery Surface Temperature Sea Surface Temperature	**Imager & Sounder** 1, 4, 8, 10 km, 0.1°, 0.05° **SXI:** 0.002 x 0.001° **Imager, Sounder & SXI:** 1 min, Hourly, Daily, Monthly	NetCDF RAW
	GOES I-M Sounder	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection		
	SXI (Solar X-Ray Imager)	Full Disk Solar Imagery										
GOES N-P (GOES -13) (2005)	**GOES N-P Imager**	Geostationary Imagery Infared Imagery	Geostationary Imagery Infared Imagery	Geostationary Imagery Infared Imagery Sea Ice Fraction Sea Surface Temperature	Geostationary Imagery Infared Imagery	Geostationary Imagery Infared Imagery	Geostationary Imagery Infared Imagery Sea Ice Fraction Sea Surface Temperature	Geostationary Imagery Infared Imagery Sea Ice Fraction Sea Surface Temperature	Geostationary Imagery Infared Imagery Sea Ice Fraction Sea Surface Temperature	Geostationary Imagery Infared Imagery Sea Surface Temperature	**Imager & Sounder** 1, 4, 8, 10 km, 0.1°, 0.05° **SXI:** 0.002 x 0.001° **Imager, Sounder, SEM-2 & SXI:** 1 min, Hourly, Daily, Monthly	NetCDF RAW
	GOES N-P Sounder	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Total Ozone Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection	Surface Air Temperature Water Vapor Cloud Detection		
	SEM-2 (Space Environment Monitor) **SXI** (Solar X-Ray Imager)	Full Disk Solar Imagery										
GPM (2014)	**DPR** (Dual-frequency Precipitation Radar)	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions		**DPR:** 24, 40 hrs **GMI:** 20 mins(L1), 6, 24, 40 hrs **DPR:** 4 km, 5 km, 1° **GMI:** 36 km	GeoTIFF NetCDF HDF5
	GMI (GPM Microwave Imager)	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature	Rainfall Averages Single Orbit Rainfall Estimates Combined Rainfall Averages Precipitation Vertical Distributions Intercalibrated Brightness Temperature			
GRACE (2002)	**HAIRS** (High-Accuracy Inter-Satellite Ranging System)	Gravity Field Coefficients Groundwater Storage Root Zone Soil Moisture Surface Soil Moisture		Gravity Field Coefficients Groundwater Storage Root Zone Soil Moisture Surface Soil Moisture	Gravity Field Coefficients Groundwater Storage Root Zone Soil Moisture Surface Soil Moisture		Gravity Field Coefficients Groundwater Storage Root Zone Soil Moisture Surface Soil Moisture	Gravity Field Coefficients Groundwater Storage Root Zone Soil Moisture Surface Soil Moisture	Gravity Field Coefficients		**HAIRS:** Non repeat orbit, but covers globe in about 1 month **HAIRS:** 300-600 km, 25 km or greater with modification	GeoTIFF HDF5
ICESat (2003 - 2010)	**GLAS** (Geoscience Laser Altimeter System)	Glacier Elevation/ Ice Sheet Elevation Glacier Topography/ Ice Sheet Topography Ice Roughness Ice Sheets Laser Reflectance Sea Ice Elevation Sea Surface Slope Sea Surface Height Scattering Transmittance Terrain Elevation	Cloud Height Cloud Reflectance Cloud Vertical Distribution Cloud Optical Depth/Thickness Aerosol Particle Properties Aerosol Backscatter Aerosol Extinction Aerosol Optical Depth/Thickness Aerosol Backscatter Cross Section Profile Planetary Boundary Layer Height	Cloud Height Cloud Reflectance Cloud Vertical Distribution Cloud Optical Depth/Thickness Aerosol Particle Properties Aerosol Backscatter Aerosol Extinction Aerosol Optical Depth/Thickness Aerosol Backscatter Cross Section Profile Planetary Boundary Layer Height		Cloud Height Cloud Reflectance Cloud Vertical Distribution Cloud Optical Depth/Thickness Aerosol Particle Properties Aerosol Backscatter Aerosol Extinction Aerosol Optical Depth/Thickness Aerosol Backscatter Cross Section Profile Planetary Boundary Layer Height	Glacier Elevation/ Ice Sheet Elevation Glacier Topography/ Ice Sheet Topography Ice Roughness Ice Sheets Laser Reflectance Sea Ice Elevation Sea Surface Slope Sea Surface Height Scattering Transmittance Terrain Elevation Aerosol Particle Properties Aerosol Backscatter Aerosol Extinction Aerosol Optical Depth/Thickness Aerosol Backscatter Cross Section Planetary Boundary Layer Height	Glacier Elevation/Ice Sheet Elevation Glacier Topography/Ice Sheet Topography Ice Roughness Ice Sheets Laser Reflectance Sea Ice Elevation Sea Surface Slope Sea Surface Height Scattering Transmittance Terrain Elevation Cloud Height Cloud Reflectance Cloud Vertical Distribution Cloud Optical Depth/Thickness Aerosol Particle Properties Aerosol Backscatter Aerosol Extinction Aerosol Optical Depth/Thickness Aerosol Backscatter Cross Section Planetary Boundary Layer Height	Glacier Elevation/Ice Sheet Elevation Glacier Topography/Ice Sheet Topography Ice Roughness Ice Sheets Sea Ice Elevation Sea Surface Slope Sea Surface Height		**GLAS:** Daily, Monthly, Multi-Year **GLAS:** 500m, 1 km	GeoTIFF NetCDF HDF5
Jason-1 (2001)	**JMR** (Jason Microwave Radiometer) **DORIS** (Doppler Orbitography & Radio-Positioning Integrated by Satellite)		Atmospheric Electricity	Ocean Surface Currents Sea Surface Height Anomaly Sea Surface Height Atmospheric Electricity		Ocean Surface Currents Sea Surface Height Anomaly Sea Surface Height Atmospheric Electricity	Ocean Surface Currents Sea Surface Height Anomaly Sea Surface Height Atmospheric Electricity	Ocean Surface Currents Sea Surface Height Anomaly Sea Surface Height Atmospheric Electricity	Ocean Surface Currents Sea Surface Height Anomaly Sea Surface Height	Ocean Surface Currents	**DORIS & JMR:** 10 Days **DORIS & JMR:** 11.2km x 5.1km, .5°, 1°	NetCDF
Jason-3 (2016)	**Altimeter** **Microwave Radiometer** **DORIS** (Doppler Orbitography & Radio-Positioning Integrated by Satellite)	Availability expected late 2016.	Geostrophic Velocity Vectors Wind Speed	Sea Surface Height Geostrophic Velocity Vectors Wind Speed Wave Height		Sea Surface Height Geostrophic Velocity Vectors Wind Speed Wave Height	Sea Surface Height Geostrophic Velocity Vectors Wind Speed Wave Height	Sea Surface Height Geostrophic Velocity Vectors Wind Speed Wave Height	Sea Surface Height Geostrophic Velocity Vectors Wind Speed Wave Height	Geostrophic Velocity Vectors Wind Speed Wave Height	Late 2016 Late 2016	
Landsat 7 (1999) **Landsat 8** (2013)	**ETM+** (Enhanced Thematic Mapper Plus) (Landsat 7) **OLI** (Operational Land Imager) (Landsat 8) **TIRS** (Thermal Infrared Sensor) (Landsat 8)	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	TOA Reflectance Surface Reflectance Brightness Temperature Thermal Bands (Landsat 8) QA (Quality Assurance) Bands Cloud Adjacent Cloud Cloud Shadow Aerosols Cirrus (OLI) DDV Fill Land Water Snow Atmospheric Opacity	**ETM+ OLI TIRS:** 16 Days **ETM+ & OLI:** 30m **TIRS:** 60m	GeoTIFF HDF5
NOAA-N (NOAA -19) (2009)	**AMSU-A** (Advanced Microwave Sounding Unit-A)	Total Precipitable Water Surface Temperature Surface Emmisivity Sea Ice Concentration	Total Precipitable Water Surface Temperature Surface Emmisivity	Total Precipitable Water Surface Temperature Surface Emmisivity Sea Ice Concentration	Total Precipitable Water Surface Temperature Surface Emmisivity	Total Precipitable Water Surface Temperature Surface Emmisivity	Total Precipitable Water Surface Temperature Surface Emmisivity Sea Ice Concentration	Total Precipitable Water Surface Temperature Surface Emmisivity Sea Ice Concentration	Surface Temperature Surface Emmisivity Sea Ice Concentration	Surface Temperature Surface Emmisivity	**AMSU-A SBUV/2 MHS AVHRR/3:** Daily, Weekly **AMSU-A:** 48 km **SBUV/2:** 170 km **MHS:** 30, 50 km x 3, 7 km vertical **AVHRR/3:** 1 km	RAW NetCDF
	SBUV/2 (Solar Backscatter Ultraviolet Radiometer)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Temperature Condition Index(TCI)	Cloud & Surface Mapping Land & Water Mask Temperature Condition Index(TCI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Vegetation Condition Index (VCI) Temperature Condition Index(TCI) Vegetation Health Index (VHI)	Land & Water Mask Snow & Ice Concentration Vegetation Condition Index (VCI) Temperature Condition Index(TCI) Vegetation Health Index (VHI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Temperature Condition Index(TCI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Vegetation Condition Index (VCI) Temperature Condition Index(TCI) Vegetation Health Index (VHI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Vegetation Condition Index (VCI) Temperature Condition Index(TCI) Vegetation Health Index (VHI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Snow & Ice Concentration Temperature Condition Index(TCI)	Sea Surface Temperature Cloud & Surface Mapping Land & Water Mask Temperature Condition Index(TCI)		
	MHS (Microwave Humidity Sounder)	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate	Rain Rate Cloud Ice Water Content	Rain Rate Cloud Ice Water Content Snow Amount Snow Fall Rate		
	AVHRR/3 (Advanced Very High Resolution Radiometer)	Solar Spectral Irradiance	Total & Profile Ozone Solar Spectral Irradiance	Total & Profile Ozone Solar Spectral Irradiance		Total & Profile Ozone Solar Spectral Irradiance	Total & Profile Ozone Solar Spectral Irradiance	Total & Profile Ozone Solar Spectral Irradiance	Solar Spectral Irradiance	Solar Spectral Irradiance		

Application Areas

Platform	Instruments	Water Resources	Health & Air Quality	Climate	Agriculture	Weather	Ecological Forecasting	Disasters	Oceans	Energy	Frequency & Resolution	Format
NOAA-N (NOAA -19) (2009)	**AMSU-A** (Advanced Microwave Sounding Unit-A)	• Total Precipitable Water • Surface Temperature • Surface Emissivity • Sea Ice Concentration	• Total Precipitable Water • Surface Temperature • Surface Emissivity	• Total Precipitable Water • Surface Temperature • Surface Emissivity • Sea Ice Concentration	• Total Precipitable Water • Surface Temperature • Surface Emissivity	• Total Precipitable Water • Surface Temperature • Surface Emissivity	• Total Precipitable Water • Surface Temperature • Surface Emissivity • Sea Ice Concentration	• Total Precipitable Water • Surface Temperature • Surface Emissivity • Sea Ice Concentration	• Surface Temperature • Surface Emissivity • Sea Ice Concentration	• Surface Temperature • Surface Emissivity	**AMSU-A SBUV/2 MHS AVHRR/3:** Daily, Weekly **AMSU-A:** 48 km **SBUV/2:** 170 km **MHS:** 30, 50 km x 3, 7 km vertical **AVHRR/3:** 1 km	RAW NetCDF
	SBUV/2 (Solar Backscatter Ultraviolet Radiometer)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Temperature Condition Index(TCI)	• Cloud & Surface Mapping • Land & Water Mask • Temperature Condition Index(TCI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Vegetation Condition Index (VCI) • Temperature Condition Index(TCI) • Vegetation Health Index (VHI)	• Land & Water Mask • Snow & Ice Concentration • Vegetation Condition Index (VCI) • Temperature Condition Index(TCI) • Vegetation Health Index (VHI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Temperature Condition Index(TCI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Vegetation Condition Index (VCI) • Temperature Condition Index(TCI) • Vegetation Health Index (VHI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Vegetation Condition Index (VCI) • Temperature Condition Index(TCI) • Vegetation Health Index (VHI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Snow & Ice Concentration • Temperature Condition Index(TCI)	• Sea Surface Temperature • Cloud & Surface Mapping • Land & Water Mask • Temperature Condition Index(TCI)		
	MHS (Microwave Humidity Sounder)	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate	• Rain Rate • Cloud Ice Water Content	• Rain Rate • Cloud Ice Water Content • Snow Amount • Snow Fall Rate		
	AVHRR/3 (Advanced Very High Resolution Radiometer)	• Solar Spectral Irradiance	• Total & Profile Ozone • Solar Spectral Irradiance	• Total & Profile Ozone • Solar Spectral Irradiance		• Total & Profile Ozone • Solar Spectral Irradiance	• Total & Profile Ozone • Solar Spectral Irradiance	• Total & Profile Ozone • Solar Spectral Irradiance	• Solar Spectral Irradiance	• Solar Spectral Irradiance		
OSTM/ Jason-2 (2008)	**AMR** (Advanced Microwave Radiometer) **DORIS** (Doppler Orbitography & Radio-Positioning Integrated by Satellite) **LRA** (Laser Retroreflector Array) **Poseidon-3 Altimeter**	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance		• Absolute Sea Level • Sea Surface Height • Significant Wave Height		• Absolute Sea Level • Sea Surface Height • Significant Wave Height	• Absolute Sea Level • Sea Surface Height • Significant Wave Height	• Absolute Sea Level • Sea Surface Height • Significant Wave Height	• Absolute Sea Level • Sea Surface Height • Significant Wave Height	• Absolute Sea Level • Sea Surface Height • Significant Wave Height	**AMR, DORIS, LRA & Poseidon 3 Altimeter:** 10 Days **AMR, DORIS, LRA & Poseidon 3 Altimeter:** 11.2 km x 5.1km	Ascii NetCDF
OCO- 2 (2014)	**Three High-Resolution Grating Spectrometers** *Xco2: Column Averaged Dry-Air CO2		• Water Vapor Profile • Temperature Profile Offset • Aerosol & Cloud Profiles • Orbit Granules of Geolocated Xco2* • Daily Files of Geolocated Xco2* • Global Xco2* • Global CO2 Sources & Sinks *Xco2 (Mole Fraction)= Column Averaged Dry-Air CO2	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Aerosol & Cloud Profiles • Solar-Induced Fluorescence • Orbit Granules of Solar Induced Fluorescence	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Solar-Induced Fluorescence • Orbit Granules of Solar Induced Fluorescence	• Water Vapor Profile • Temperature Profile Offset • Aerosol & Cloud Profiles	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Solar-Induced Fluorescence • Orbit Granules of Solar Induced Fluorescence • Orbit Granules of Geolocated Xco2 • Daily Files of Geolocated Xco2 • Global Xco2 • Global CO2 Sources & Sinks	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Aerosol & Cloud Profiles • Solar-Induced Fluorescence • Orbit Granules of Solar Induced Fluorescence • Orbit Granules of Geolocated Xco2 • Daily Files of Geolocated Xco2 • Global Xco2 • Global CO2 Sources & Sinks	• Water Vapor Profile • Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Aerosol & Cloud Profiles • Orbit Granules of Geolocated Xco2 • Daily Files of Geolocated Xco2 • Global Xco2 • Global CO2 Sources & Sinks	• Temperature Profile Offset • Surface Albedo • Calibrated Spectral Radiance • Aerosol & Cloud Profiles	**HR SPEC:** 16, 18, 30 Days **HR SPEC:** 1.29 x 2.25 km	Ascii HDF5
QuikSCAT (1999)	**SeaWinds** (Microwave Radar Instrument)	• Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction • Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction • Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction • Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction • Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction • Scatterometer Derived Rain Flag • Radiometer Column Rain Rates	• Surface Wind Speed • Surface Wind Direction	• Surface Wind Speed • Surface Wind Direction	**SeaWinds:** 1, 3, 7, 30 Days **SeaWinds:** 0.25°	NetCDF
RADARSAT-1 (1995 - 2013)	**SAR** (Synthetic Aperture Radar- HH)	• Fine Mode • Standard Mode • ScanSAR Mode			• Fine Mode • Standard Mode • ScanSAR Mode		• Fine Mode • Standard Mode • ScanSAR Mode	• Fine Mode • Standard Mode • ScanSAR Mode	• Fine Mode • Standard Mode • ScanSAR Mode	• Fine Mode • Standard Mode • ScanSAR Mode	**SAR:** Intermittent Processing **SAR:** 8, 30, 50, 100m	GeoTIFF HDF5
RapidScat (2014)	**Rapid Scatterometer**	• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors		• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors	• Ocean Surface Wind Vectors	**Rapid Scatterometer:** 12 hours **Rapid Scatterometer:** 12.5 x 12.5 km, 7.5, 25 x 25 km	NetCDF
SAGE- III (2001) (2016)	**SAGE III** (Stratospheric Aerosol & Gas Experiment)	• OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Water Vapor • Dust/Ash	• O3 (Ozone) • OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Trace Gases • Water Vapor • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	• O3 (Ozone) • OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Trace Gases • Water Vapor • Cloud Height • Cloud Vertical Distribution • Cloud Amount/Frequency • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	• OCIO (Chlorine Dioxide) • Water Vapor • Air Temperature • Dust/Ash	• Trace Gases • Water Vapor • Cloud Height • Cloud Vertical Distribution • Cloud Amount/Frequency • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	• O3 (Ozone) • OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Trace Gases • Water Vapor • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	• O3 (Ozone) • OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Trace Gases • Water Vapor • Cloud Height • Cloud Vertical Distribution • Cloud Amount/Frequency • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	• OCIO (Chlorine Dioxide) • N2O (Nitrogen Oxide) • NO2 (Nitrogen Dioxide) • Water Vapor • Dust/Ash • Atmospheric Pressure • Air Temperature	• Cloud Height • Cloud Vertical Distribution • Cloud Amount/Frequency • Atmospheric Pressure • Air Temperature • Dust/Ash • Aerosol Extinction	**SAGE III:** Monthly **SAGE III:** .5 x1 km vertical	RAW HDF
SeaWiFS (1997 - 2010)	**SeaWiFS** (Sea-Viewing Wide Field-of-View Sensor)	• Diffuse Attenuation Coefficient • Reflectance • Total Backscatter • Total Absorption • RGB Land Mask	• Particulate Organic Carbon • Particulate Backscattering • Total Backscatter • Total Absorption	• Particulate Organic Carbon • Particulate Backscattering • Total Backscatter • Total Absorption	• Chlorophyll Concentrations • Photosynthetically Available Radiation • Reflectance • Total Backscatter • Total Absorption • RGB Land Mask • Normalized Difference Vegetation Index	• Reflectance • Total Backscatter • Total Absorption	• Calcite Concentrations • Chlorophyll Concentrations • Diffuse Attenuation Coefficient • Particulate Organic Carbon • Particulate Backscattering • Photosynthetically Available Radiation • Reflectance • Total Backscatter • Total Absorption • RGB Land Mask • Normalized Difference Vegetation Index	• Diffuse Attenuation Coefficient • Particulate Organic Carbon • Particulate Backscattering • Reflectance • Total Backscatter • Total Absorption • RGB Land Mask	• Calcite Concentrations • Chlorophyll Concentrations • Diffuse Attenuation Coefficient • Particulate Organic Carbon • Particulate Backscattering • Reflectance • Total Backscatter • Total Absorption	• Diffuse Attenuation Coefficient • Reflectance • Total Backscatter • Total Absorption • RGB Land Mask	**SeaWiFS:** 1, 8, 32 days **SeaWiFS:** 9 km	NetCDF
SMAP (2015)	**L-band Radar**	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• Freeze/Thaw State	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	• High/Low Resolution Radar • Carbon & Net Ecosystem Exchange	**Radar & Radiometer:** 12, 24, 50 hrs, 7, 14 days **Radar:** 1, 3, 9, 36 km **Radiometer:** 9, 36 km	GeoTIFF HDF5
	L-band Radiometer	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • Carbon & Net Ecosystem Exchange	• Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • Carbon & Net Ecosystem Exchange	• Freeze/Thaw State	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • Carbon & Net Ecosystem Exchange	• Soil Moisture • Soil Moisture (Surface & Root Zone) • Freeze/Thaw State • Carbon & Net Ecosystem Exchange	• Carbon & Net Ecosystem Exchange	• Carbon & Net Ecosystem Exchange		
SORCE (2003)	**SOLSTICE** (Solar Stellar Irradiance Comparison Experiment) **SIM** (Spectral Irradiance Monitor) **TIM** (Total Irradiance Monitor) **XPS** (XUV Photometer System)	• Total Solar Irradiance • Specral Solar Irradiance		• Total Solar Irradiance • Specral Solar Irradiance	• Total Solar Irradiance • Specral Solar Irradiance					• Total Solar Irradiance • Specral Solar Irradiance	**SOLTICE, SIM, TIM, XPS:** 6 hrs, Daily **SOLTICE, SIM, TIM, XPS:** Measures in nm	Ascii HDF5
SRTM (2000)	**SRTM** (Shuttle Radar Topography Mission)	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	• Digital Elevation Model	**SRTM:** Global Continous, 1° Tiles **SRTM:** 30, 90 m	GeoTIFF
Suomi NPP (2011)	**VIIRS** (Visible/Infrared Imager/ Radiometer Suite)	• Albedo • Land Surface Temperature • Surface Type • Suspended Matter • Vegetation Index • Ice Surface Temperature • Snow Cover/Depth	• Cloud Base Height • Cloud Cover • Cloud Effective Particle Size • Cloud Optical Thickness • Cloud Top Height • Cloud Top Pressure • Cloud Top Temperature • Aerosol Optical Thickness • Aerosol Particle Size	• Albedo • Cloud Base Height • Cloud Cover • Cloud Effective Particle Size • Cloud Optical Thickness • Cloud Top Height • Cloud Top Pressure • Cloud Top Temperature • Land Surface Temperature • Surface Type • Suspended Matter • Vegetation Index • Aerosol Optical Thickness • Aerosol Particle Size • Ice Surface Temperature • Sea Ice Characterization • Snow Cover/Depth	• Land Surface Temperature • Surface Type • Vegetation Index	• Cloud Base Height • Cloud Cover • Cloud Effective Particle Size • Cloud Optical Thickness • Cloud Top Height • Cloud Top Pressure • Cloud Top Temperature • Aerosol Optical Thickness • Aerosol Particle Size	• Albedo • Cloud Cover • Cloud Effective Particle Size • Land Surface Temperature • Surface Type • Ocean Color/ Chlorophyll • Suspended Matter • Vegetation Index • Aerosol Optical Thickness • Aerosol Particle Size • Ice Surface Temperature • Sea Ice Characterization • Snow Cover/Depth • Sea Surface Temperature	• Cloud Base Height • Cloud Cover • Cloud Effective Part Size • Cloud Optical Thickness • Cloud Top Height • Cloud Top Pressure • Cloud Top Temperature • Land Surface Temperature • Surface Type • Ocean Color/ Chlorophyll • Suspended Matter • Vegetation Index • Aerosol Optical Thickness • Aerosol Particle Size • Snow Cover/Depth • Sea Surface Temperature	• Ocean Color/ Chlorophyll • Suspended Matter • Ice Surface Temperature • Sea Ice Characterization • Sea Surface Temperature	• Albedo • Cloud Cover • Cloud Effective Part Size • Cloud Optical Thickness • Cloud Top Height • Land Surface Temperature • Surface Type	**VIRS CrIS/ATMS CERES OMPS:** Daily **VIRS:** 375 m, 750 m **CrIS/ATMS:** 2200 km x 14 km vertical **CERES:** 20 km **OMPS:** 50 x 15 or 60 km vertical	GeoTIFF HDF5
	CrIS (Cross-Track Infrared Sounder) **ATMS** (Advanced Technology Microwave Sounder)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)	• Atmosphere Vertical Moisture Profile • Atmosphere Vertical Temp Profile • Pressure (Surface/Profile)			
	CERES (Clouds and Earth's Radiant Energy System)	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation		• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation	• Incoming LW Radiation • Incoming SW Radiation • Net Solar Radiation • Outgoing LW Radiation		
	OMPS (Ozone Mapping and Profiler Suite)		• Total Column Ozone (O3) • Ozone Profile	• Total Column Ozone (O3) • Ozone Profile			• Total Column Ozone (O3) • Ozone Profile	• Total Column Ozone (O3) • Ozone Profile				
Terra (1999)	**ASTER** (Advanced Spaceborne Thermal Emission & Reflection Radiometer)	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model		• Surface Kinetic Temperature • Surface Emissivity • Digital Elevation Model	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model	• Surface Kinetic Temperature • Surface Emissivity • Digital Elevation Model	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model	• Surface Reflectance (VNIR & SWIR) • Surface Radiance (VNIR & SWIR) • Surface Radiance TIR • Surface Kinetic Temperature • Surface Emissivity • Registered Radiance at Sensor • Digital Elevation Model	**ASTER:** Daily **MISR:** 1 Orbit (98.88 mins) **MOPITT:** Every 0.4 Seconds **CERES:** 3 hr, Daily, Monthly **MODIS:** 1-2 Days **ASTER:** 15m, 15 x 25 m vertical, 30, 90m **MISR:** 275m, 550m, 1.1 km **MOPITT:** 22 x 22 km **CERES:** 20 km **MODIS:** 250, 500m, 1 km	HDF5 GeoTiff
	CERES (Clouds & Earth's Radiant Energy System)		• Cloud & TOA Flux Averages • Computed Fluxes & Clouds • Average Fluxes & Clouds	• Cloud & TOA Flux Averages • Computed Fluxes & Clouds • Average Fluxes & Clouds		• Cloud & TOA Flux Averages • Computed Fluxes & Clouds • Average Fluxes & Clouds	• Cloud & TOA Flux Averages • Computed Fluxes & Clouds • Average Fluxes & Clouds					
	MISR (Multiangle Imaging Spectroradiometer)		• Cloud Elevation • Cloud Fraction • Cloud Texture • Tropospheric Aerosol Optical Depth • Aerosol Composition & Size	• Cloud Elevation • Cloud Fraction • Cloud Texture • Tropospheric Aerosol Optical Depth • Aerosol Composition & Size		• Cloud Elevation • Cloud Fraction • Cloud Texture • Tropospheric Aerosol Optical Depth • Aerosol Composition & Size	• Cloud Elevation • Cloud Fraction • Cloud Texture • Tropospheric Aerosol Optical Depth • Aerosol Composition & Size					
	MODIS (Moderate-Resolution Imaging Spectroradiometer)	See Aqua	See Aqua	See Aqua	See Aqua	See Aqua	See Aqua	See Aqua	See Aqua	See Aqua		
	MOPITT (Measurements of Pollution in the Troposphere)		• CO Volume Mixing Ratio • CO Total Column Value	• CO Volume Mixing Ratio • CO Total Column Value		• CO Volume Mixing Ratio • CO Total Column Value	• CO Volume Mixing Ratio • CO Total Column Value					
TOMS- EP (1996 - 2006)	**TOMS** (Total Ozone Mapping Spectrometer)	• Effective Surface Reflectivity	• Total Column Ozone • Aerosol Index • Effective Surface Reflectivity	• Total Column Ozone • Aerosol Index • Effective Surface Reflectivity	• Effective Surface Reflectivity	• Total Column Ozone • Aerosol Index • Effective Surface Reflectivity	• Total Column Ozone • Aerosol Index • Effective Surface Reflectivity	• Total Column Ozone • Aerosol Index • Effective Surface Reflectivity	• Effective Surface Reflectivity	• Effective Surface Reflectivity	**TOMS:** Daily, Monthly **TOMS:** 50 km x 50 km, 1° x 1.25°	ASCII HDF5
TOPEX (1992 - 2006)	**AMR** (Advanced Microwave Radiometer)	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature • Water Vapor	• Water Vapor	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature • Water Vapor	• Water Vapor	• Brightness Temperature • Water Vapor	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature • Water Vapor	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature • Water Vapor	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature • Water Vapor	• Significant Wave Height • Sea Surface Height • Sea Surface Topography • Brightness Temperature	**AMR & LRA:** 7, 10 Days, Monthly **AMR:** 11.5 x 5.1 km, 0.33°, 0.5°, 1° **LRA:** 4000 km x 4000 km	ASCII NetCDF
	LRA (Laser Retroreflector Array)	• Gravity Harmonics		• Gravity Harmonics				• Gravity Harmonics	• Gravity Harmonics			
TRMM (1997 - 2015)	**PR** (Precipitation Radar) **TMI** (TRMM Microwave Imager) **VIRS** (Visible and Infrared Scanner)	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	• Surface Cross-Section • Rain Characteristics • Rainfall Rate & Profile • Combined Rainfall Profile • Oceanic Rainfall • Mean 2A12, Profile & Surface Rainfall • Spaceborne Radar Rainfall • Surface Rain Total • Combined Rainfall • SSM/I Rainfall (Special Sensor Microwave / Image) • Convective & Stratiform Heating	**CERES:** 1, 3 hr, Monthly **LIS:** 1 orbit (91 mins) **PR/TMI/VIRS:** 3 hr, Daily, 10, 30 Days **CERES:** 20 km **LIS:** 3 - 6 km **PR/TMI/VIRS:** 0.25°, 1°, 5°	ASCII HDF4 NetCDF4
	CERES (Clouds and Earth's Radiant Energy System)	See Terra	See Terra	See Terra	See Terra	See Terra	See Terra	See Terra	See Terra	See Terra		
	LIS (Lightning Imaging Sensor)			• Lightning Measurements		• Lightning Measurements		• Lightning Measurements				
UARS (2005 - 2011)	**ACRIM II** (Active Cavity Radiometer Irradiance Monitoring)	• Total Solar Irradiance		• Total Solar Irradiance	• Total Solar Irradiance					• Total Solar Irradiance	**ACRIM II** 2.5° centered on sun **CLAES** 500 km x 8.4 km x 2.5 km vertical **HALOE** 6.2 km x 26° x 2.5 km vertical **HRDI** 500 km x 55 km x 3 km vertical **ISAMS** 4° x 18 km x 2.5 km vertical **MLS** 500km x 10m x 2.5km veritical **PEM** 60 km x 100km **SOLSTICE & SUSIM** Globally **WINDII** 500 km x 20 km x 3 km vertical **ACRIM II, SOLSTICE & SUSIM** Daily **CLAES, HALOE, HRDI, ISAMS, MLS & WINDII** Twice Daily **PEM** 1 , 2 Days	ASCII HDF
	CLAES (Cryogenic Limb Array Etalon Spectrometer)	• (N) Nitrogen • (Cl) Chlorine • Water Vapor • Temperature	• (N) Nitrogen • (Cl) Chlorine • (O3) Ozone • Water Vapor • (CH4) Methane • Aerosol • Temperature	• (N) Nitrogen • (O3) Ozone • Water Vapor • Aerosol • Temperature	• Water Vapor • (CH4) Methane • Aerosol • Temperature	• Water Vapor • Aerosol • Temperature	• (N) Nitrogen • (Cl) Chlorine • (O3) Ozone • Water Vapor • (CH4) Methane • Aerosol • Temperature	• (N) Nitrogen • (Cl) Chlorine • (O3) Ozone • Water Vapor • (CH4) Methane • Aerosol • Temperature	• (N) Nitrogen • (Cl) Chlorine • Temperature	• Water Vapor • Temperature		
	HALOE (Halogen Occultation Experiment)	• (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • Water Vapor • Temperature	• (O3) Ozone • (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • (CH4) Methane • Water Vapor • Temperature	• (O3) Ozone • (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • (CH4) Methane • Water Vapor • Temperature	• (O3) Ozone • (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • (CH4) Methane • Water Vapor • Temperature	• Water Vapor • Temperature	• (O3) Ozone • (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • (CH4) Methane • Water Vapor • Temperature	• (O3) Ozone • (NO2) Nitrogen Dioxide • (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • (CH4) Methane • Water Vapor • Temperature	• (HCl) Hydrogen Chloride • (HF) Hydrogen Fluoride • Water Vapor • Temperature	• Water Vapor • Temperature		
	HRDI (High Resolution Doppler Imager)	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Upper Air Temperature • Wind Direction	• Wind Direction		
	ISAMS (Improved Stratospheric and Mesospheric Sounder)	• CO (Carbon Monoxide) • H2O (Water Vapor) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • Atmospheric Temperature	• Aerosol at 12.1 Microns [1/km] • Aerosol at 6.23 Microns [1/km] • CH4 (Methane) • CO (Carbon Monoxide) • Water Vapor • N2O (Nitrous Oxide) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • O3 (Ozone) • Atmospheric Temperature	• CH4 (Methane) • CO (Carbon Monoxide) • Water Vapor • N2O (Nitrous Oxide) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • O3 (Ozone) • Atmospheric Temperature	• CH4 (Methane) • CO (Carbon Monoxide) • Water Vapor • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • Atmospheric Temperature	• Aerosol at 12.1 Microns [1/km] • Aerosol at 6.23 Microns [1/km] • Water Vapor • Atmospheric Temperature	• Aerosol at 12.1 Microns [1/km] • Aerosol at 6.23 Microns [1/km] • CH4 (Methane) • CO (Carbon Monoxide) • Water Vapor • N2O (Nitrous Oxide) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • O3 (Ozone) • Atmospheric Temperature	• Aerosol at 12.1 Microns [1/km] • Aerosol at 6.23 Microns [1/km] • CH4 (Methane) • CO (Carbon Monoxide) • Water Vapor • N2O (Nitrous Oxide) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • O3 (Ozone) • Atmospheric Temperature	• CO (Carbon Monoxide) • Water Vapor • N2O (Nitrous Oxide) • N2O5 (Nitrogen Pentoxide) • NO2 (Nitrogen Dioxide) • Atmospheric Temperature	• Water Vapor • Atmospheric Temperature		
	MLS (Microwave Limb Sounder)	• H2O (Water Vapor) • Temperature • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• O3 (Ozone) • ClO (Chlorine Monoxide) • Water Vapor • Temperature • SO2 (Sulfur Dioxide) • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• Water Vapor • Temperature • Geopotential Height	• Water Vapor • Temperature • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• Water Vapor • Temperature • Geopotential Height	• O3 (Ozone) • ClO (Chlorine Monoxide) • Water Vapor • Temperature • SO2 (Sulfur Dioxide) • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• O3 (Ozone) • ClO (Chlorine Monoxide) • Water Vapor • Temperature • SO2 (Sulfur Dioxide) • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• Water Vapor • Temperature • HNO3 (Nitric Acid) • CH3CN (Methyl Cyanide) • Geopotential Height	• Water Vapor • Temperature • Geopotential Height		
	PEM (Particle Environment Monitor)	• Magnetic Fields	• Electron Flux • X-Ray Flux	• Electron Flux • X-Ray Flux	• Electron Flux • X-Ray Flux	• Electron Flux	• Electron Flux • X-Ray Flux • Magnetic Fields	• Electron Flux • X-Ray Flux • Magnetic Fields	• Electron Flux	• Electron Flux • X-Ray Flux		
	SUSIM (Solar Ultraviolet Spectral Irradiance Monitor) **SOLSTICE** (Solar Stellar Irradiance Comparison Experiment)	• Solar Irradiance		• Solar Irradiance	• Solar Irradiance					• Solar Irradiance		
	WINDII (Wind Imaging Interferometer)	• Upper Air Temperature	• Upper Air Temperature • Meridional Winds • Zonal Winds	• Upper Air Temperature • Meridional Winds • Zonal Winds		• Upper Air Temperature • Meridional Winds • Zonal Winds	• Upper Air Temperature • Meridional Winds • Zonal Winds	• Upper Air Temperature • Meridional Winds • Zonal Winds	• Upper Air Temperature • Meridional Winds • Zonal Winds	• Upper Air Temperature • Meridional Winds • Zonal Winds		