24 EOS Measurements

ATMOSPHERE	**Cloud Properties** *(amount, optical properties, height)*	**MODIS, GLAS, AMSR-E,** *MISR, AIRS, ASTER,* SAGE III
	Radiative Energy Fluxes *(top of atmosphere, surface)*	**CERES, ACRIM III, MODIS, AMSR-E,** *GLAS,* *MISR, AIRS,* ASTER, SAGE III
	Precipitation	**AMSR-E**
	Tropospheric Chemistry *(ozone, precursor gases)*	**TES, MOPITT,** SAGE III, MLS, HIRDLS, LIS
	Stratospheric Chemistry *(ozone, ClO, BrO, OH, trace gases)*	**MLS, HIRDLS, SAGE III, OMI,** *TES*
	Aerosol Properties *(stratospheric, tropospheric)*	**SAGE III,** *HIRDLS* **MODIS, MISR,** *OMI, GLAS*
	Atmospheric Temperature	**AIRS/AMSU-A, MLS,** *HIRDLS,* TES, MODIS
	Atmospheric Humidity	**AIRS/AMSU-A/HSB,** *MLS, SAGE III, HIRDLS,* Poseidon 2/JMR/DORIS, MODIS, TES
	Lightning *(events, area, flash structure)*	**LIS**
SOLAR RADIATION	**Total Solar Irradiance**	**ACRIM III, TIM**
	Solar Spectral Irradiance	**SIM, SOLSTICE**

24 EOS Measurements

LAND	Land Cover & Land Use Change	**ETM+**, **MODIS**, *ASTER*, *MISR*
	Vegetation Dynamics	**MODIS, MISR, ETM+,** *ASTER*
	Surface Temperature	**ASTER, MODIS,** *AIRS*, *AMSR-E*, ETM+
	Fire Occurrence (extent, thermal anomalies)	**MODIS, ASTER,** *ETM+*
	Volcanic Effects (frequency of occurrence, thermal anomalies, impact)	**MODIS, ASTER, ETM+,** *MISR*
	Surface Wetness	**AMSR-E**
OCEAN	Surface Temperature	**MODIS, AIRS,** *AMSR-E*
	Phytoplankton & Dissolved Organic Matter	**MODIS**
	Surface Wind Fields	**SeaWinds**, *AMSR-E*, Poseidon 2/JMR/DORIS
	Ocean Surface Topography (height, waves, sea level)	**Poseidon 2/JMR/DORIS**

24 EOS Measurements

CRYOSPHERE

Land Ice *(ice sheet topography, ice sheet volume change, glacier change)*	**GLAS**, **ASTER**, **ETM+**
Sea Ice *(extent, concentration, motion, temperature)*	**AMSR-E**, *Poseidon 2/JMR/DORIS*, MODIS, ETM+, ASTER
Snow Cover *(extent, water equivalent)*	**MODIS**, **AMSR-E**, *ASTER*, *ETM+*