National Oceanographic and Atmospheric Administration (NOAA)
Geostationary Operational Environmental Satellite(s) - GOES-10 (West), GOES-12 (East)

Mission orbital parameters

Purpose	**Precession rate**	**Orbit radius (km)**	**Long. of ascending node**	**Inclination**	**Repeat time**
Continuous monitoring for extensive data analysis and aid	Geosynchronous	35,786	75°W, 135°W	0.41°	N/A

Instrument Name	Purpose	# of Cha	Wave range (μm)	Spect. Res. (μm)	Horiz Swath	Horiz Res. (km)	Vert. Res. (km)	Data rate	Launch & end dates
Imager: VIS Shortwave Moisture Longwave-IR1 Longwave-IR2	To sense radiant and reflected solar energy by temperature, water vapor, SSTs, and clouds		0.55 - 0.75 3.80 - 4.00 6.50 - 7.00 10.20 - 11.20 11.50 - 12.50	0.2 0.2 0.5 1.0 1.0	Pole to Pole and 60° E-W	1 4 8 4 4		2.6208 Mbps	1990's to current
Sounder: Longwave-IR Midwave-IR Shortwave-IR Visible	19-channel radiometer for sensing specific data parameters (e.g. temperature, ozone, water vapor)	7 5 6 1	14.71 (T) 14.37 14.06 13.64 13.37 12.66 12.02 (sfc T) 11.03 (sfc T) 9.71 (ozone) 7.43 (vapor) 7.02 6.51 4.57 (T) 4.52 4.45 4.13 3.98 (sfc T) 3.74 (T) 0.70 (cloud)		Pole to Pole and 60° E-W	10 10 10 10	1 1 1 1	40.0 kbps	1990's to current
SEM: Magnetometer X-ray Proton/Alpha Particle	Space Env. Monitor Magnetic field Solar x-ray High Energy Flux Flux	 2 3 1 16	 N/A 0.5-3, 1-8 Å 370 - 970 MeV >= 970 MeV 0.55 - 500 MeV	 0.03 nT 2.5, 7 Å 600 MeV N/A 499.45 MeV	 N/A N/A ~34° half angle N/A 	 N/A <= 2% N/A N/A	 N/A <= 2% N/A N/A		1990's to current
DCS	Data collection and relay system for ground-based data platforms (pole-to-pole)				75°E to 75°W				1990's to current
SAR	Search and rescue (pole-to-pole)				75°E to 75°W				1990's to current

Good reference web pages
http://noaasis.noaa.gov/NOAASIS/ml/genlsatl.html
http://rsd.gsfc.nasa.gov/goes/text/goes.databook.html