



Current GOES Status

2004 Satellite Direct Readout Conference

December 2004

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NOAA Satellite and Information Service**



Status Nomenclature



Green, Operational



**Orange, Operational
with degraded performance**



Yellow, Operational with limitations

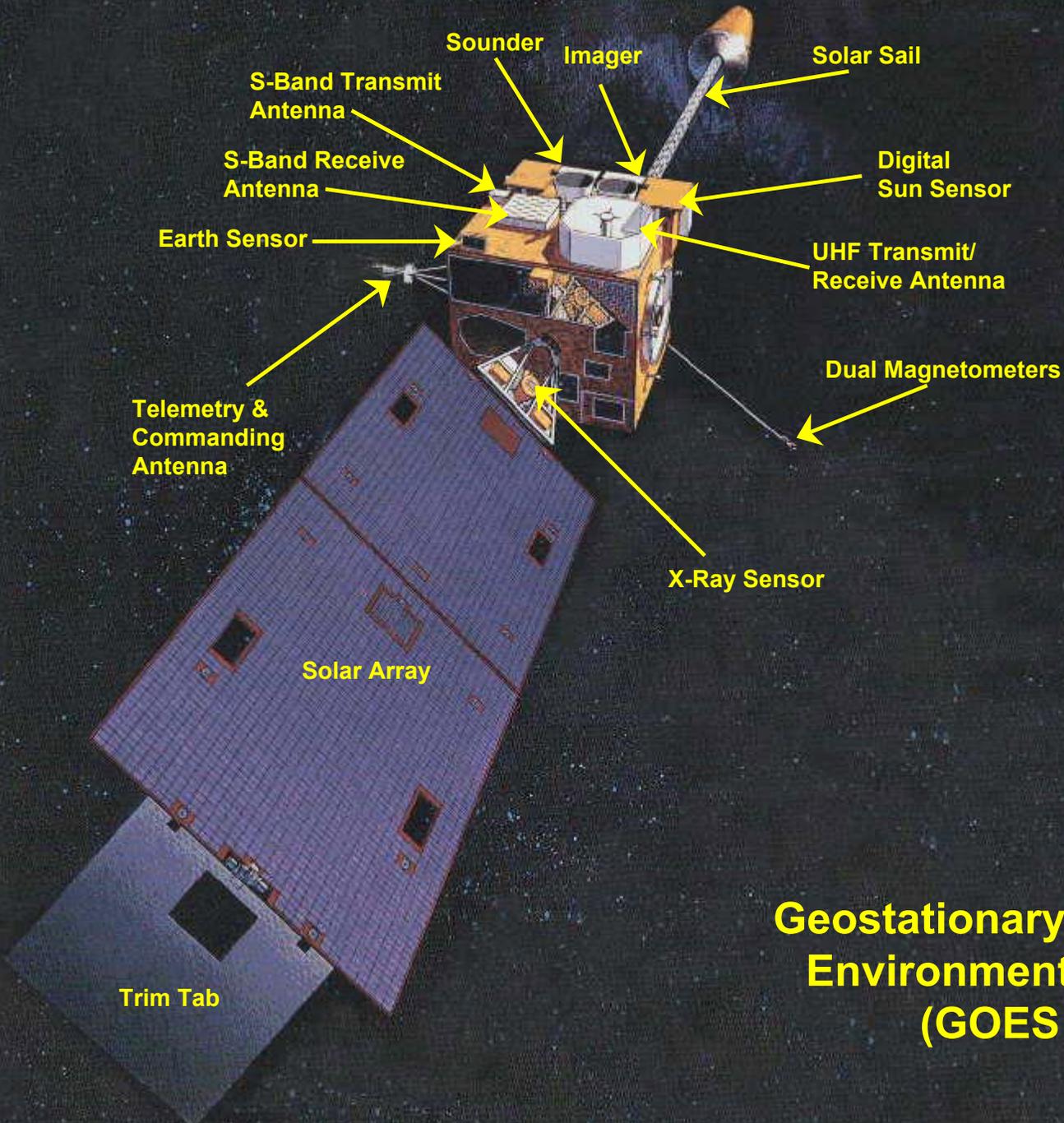


Red, Not Operational



GOES Status

Spacecraft Subsystems	GOES-10	GOES-9	GOES-11	GOES-12
Operational Status	West	Pacific	Storage	East
Inclination Control	Y	R		
Image Motion Compensation		Y		
Instruments				
Imager		Y		
Sounder				
Space Environment Monitor	Y			Y
SXI	N/A	N/A	N/A	O
Spacecraft Subsystems				
Attitude and Orbit Control		O		
Thermal Control				
Electrical Power				
Telemetry and Command				
Communications	Y			
Propulsion				
Mechanisms	Y			



**Geostationary Operational
Environmental Satellite
(GOES I - M)**

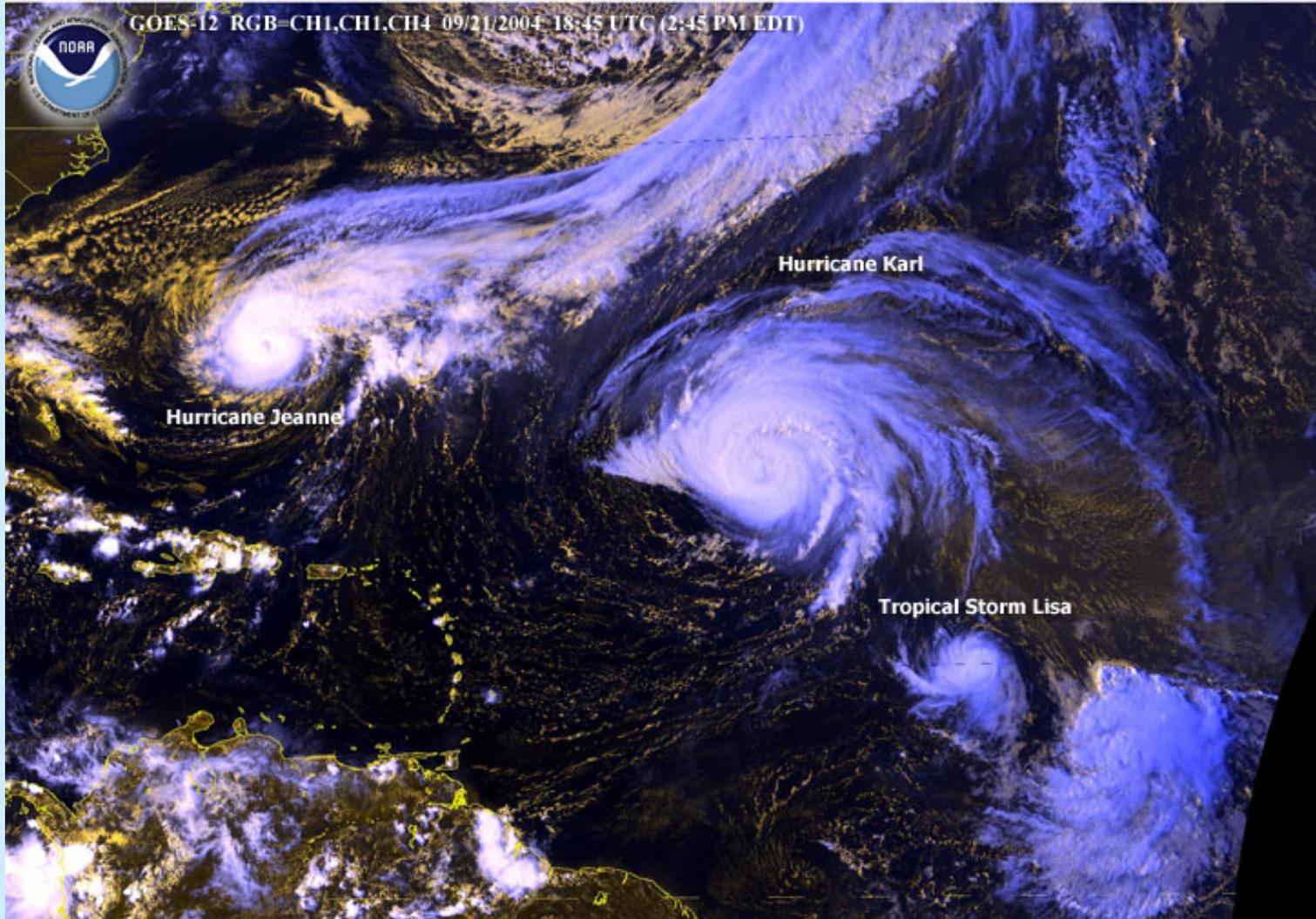


GOES-12



At 2:45 PM EDT Sept. 21, 2004, Hurricanes Jeanne and Karl and Tropical Storm Lisa were over the Atlantic Ocean. According to the National Hurricane Center, at 11:00 AM Jeanne's winds were 80 knots with gusts to 100 knots, and movement was east-southeast at 6 knots; Karl's winds were 110 knots with gusts to 135 knots and movement to the north-northwest at 12 knots; and Lisa's winds were 60 knots with gusts to 75 knots and movement to the west-northwest at 9 knots.

CREDIT: NOAA





GOES 12 (M) – Operational East

Launch Date: July 23, 2001

Location: 75 Degrees W

Y

SEM: Energy Particle Sensor - Channels P6 and P7 started to show noisy data in February 2003.

O

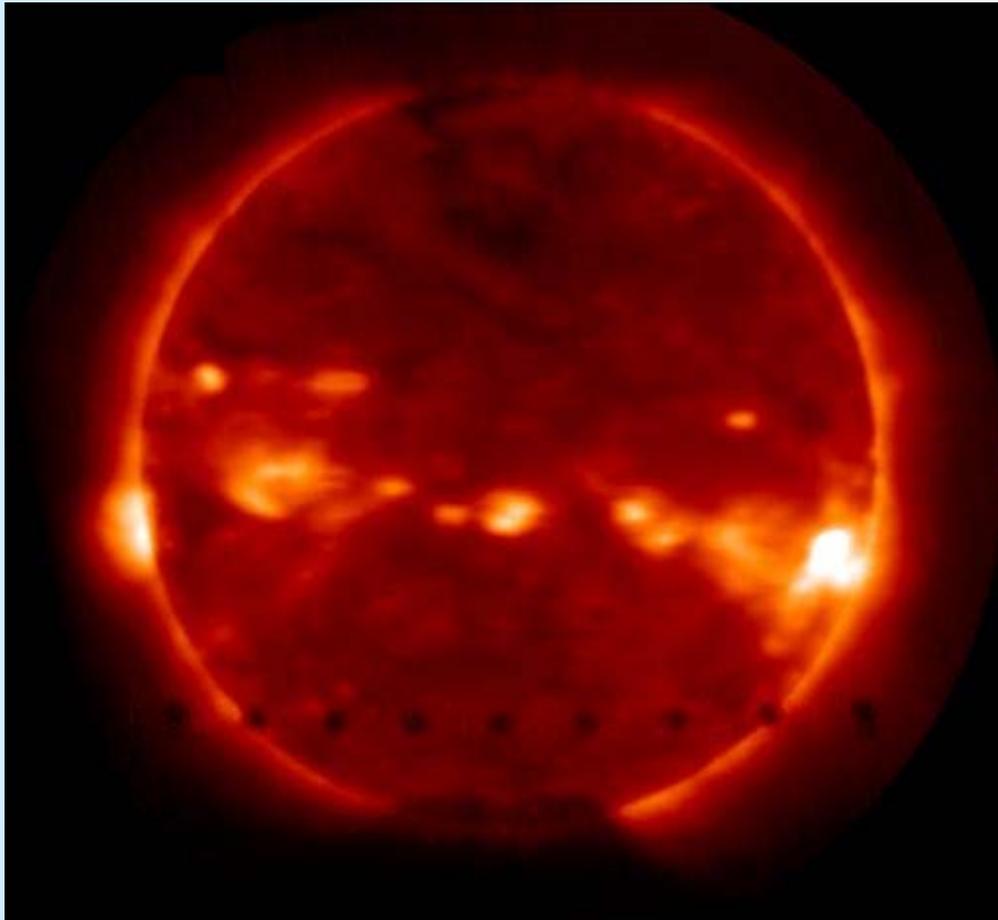
SXI: - High Voltage Power Supply – 1kV circuit failed in the high voltage range above 500V
- The entrance filter failed in November 2003 but focal plane filters are operational.

INR: Solar sail structural change September 16, 2004. Temporary INR degradation.



SXI Transient of Venus

June 8, 2004





GOES-10 (K) – Operational West

Launch Date: April 25, 1997

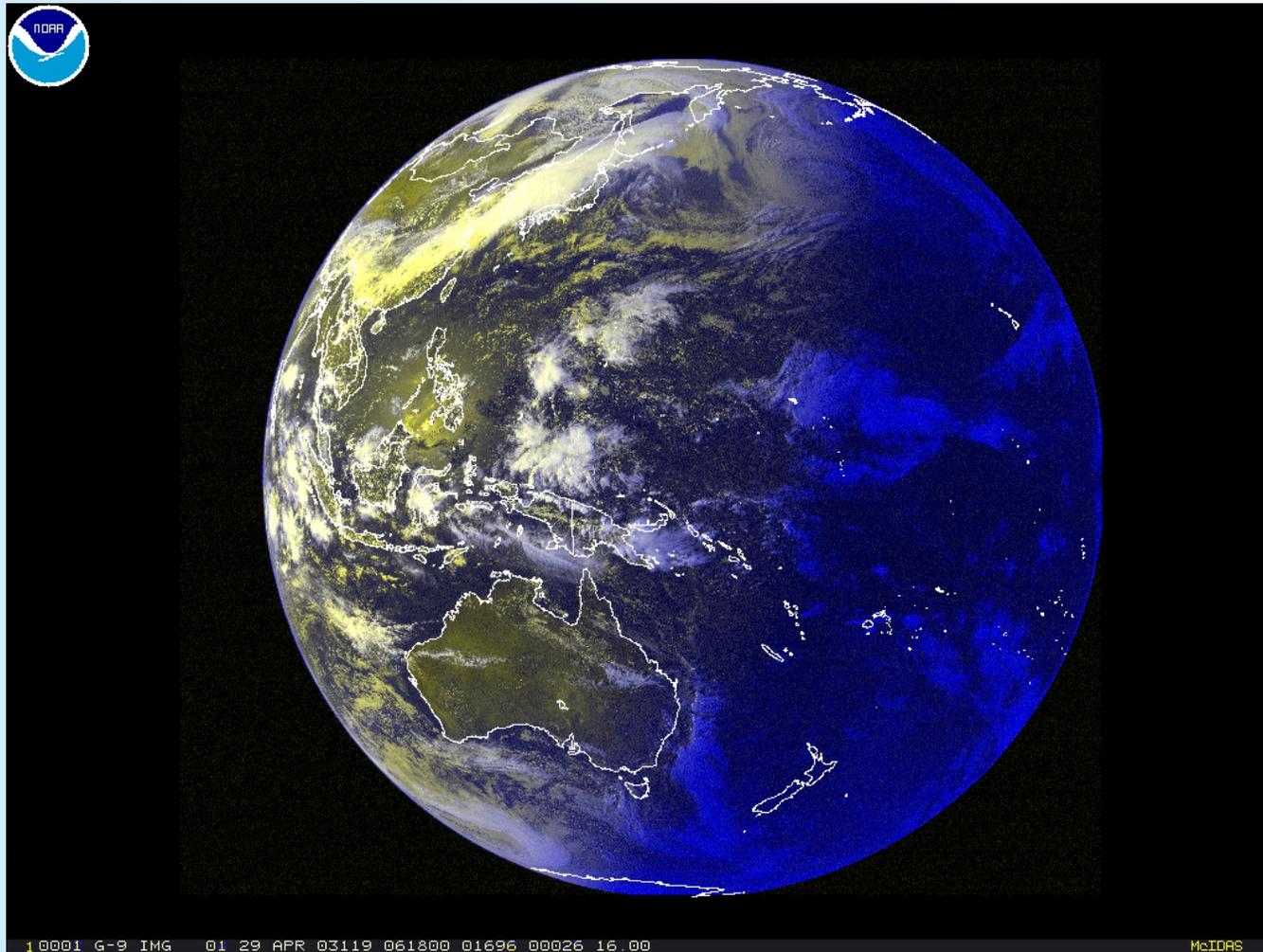
Location: 135 Degrees W

- Y SEM: Energy Particle Sensor - Channels P6 and P7 started to show noisy data in April 2003**
- Y Comm: DCPI A transmitter failed July 1999**
- Y Mech: Solar Array Drive failed in the forward run direction in May 1997. Spacecraft was YAW flipped to operate.**
- Y Inclination Control: One partial N/S Maneuver in June 2005. Spacecraft will exceed N/S inclination requirement of +/- 0.5 degrees in January 2006.**

Watch Item: Sounder – Filter wheel



GOES-9





GOES-9 (J) – Pacific

Launch Date: May 23, 1995

Location: 155 Degrees E

Inclination: 0.9 degrees

Y

**Imager: - East/West Servo Motor Winding #2 degraded in April 1996.
- Noise is seen in visual channel.**

O

AOCS: Momentum Wheel #2 tachometer and wheel electronics failed in January 2003

Y

IMC: IMC on-board computation out of range. Spacecraft running with IMC off.

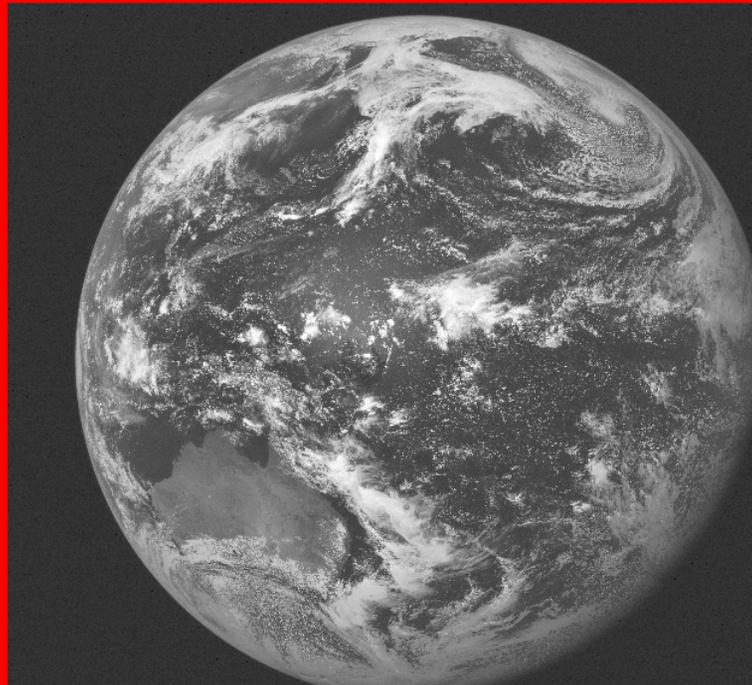
R

Inclination Control: No longer have enough fuel for N/W inclination maneuver. Estimated an increase of 1.0 degree of inclination per year.



GOES-8 Decommissioned May 4-5, 2004

Last GOES-8 image





For updated information:

<http://www.oso.noaa.gov/goesstatus/>