

MODIS IOT Weekly Report

Mission Operations Days: 2000/260 to 2000/266

September 15, 2000 20:00:00 GMT to September 22, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

Blackbody	A On; B Off	Nominal
Calibration Electronics	A On; B Off	Nominal
Control Processor	A On; B Off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A On; B off	Nominal
FIFO Memory	1 & 2 On; 3 & 4 Off	Nominal
Format Processor	A On; B off	Nominal
PC FPA	A On	Nominal
Power Supply:1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On	Nominal
NIR	A On	Nominal
SMIR	A On	Nominal
LWIR	A On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A On; B off	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On; B Off	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67, 68	Nominal

This Week's Completed MODIS Activities:

Saturday, September 16, 2000

None

Sunday, September 17, 2000

None

Monday, September 18, 2000

262/05:05:12 ATC Load - Set Formatter to Night Rate 00:03:15 early (for 50/50 SSR buffer)

262/05:35:22 ATC Load - Set Formatter to Day Rate (for Lunar Roll)

262/05:35:24 ATC Load - Set SCIABNORM Flag to ABNORM

262/05:35:26 ATC Load - PC DC Restore OFF

262/05:35:28 ATC Load - PV DC Restore OFF

262/05:35:30 ATC Load - Sector Rotation to -3072 (EA to SV and OBCs)

262/05:41:44 ATC Load - Sector Rotation to 0 (Normal)

262/05:41:46 ATC Load - PC DC Restore ON

262/05:41:48 ATC Load - PV DC Restore ON

262/05:41:50 ATC Load - Set SCIABNORM Flag to NORM

262/05:41:52 ATC Load - Set Formatter to Night Rate (for Lunar Roll)

262/06:01:09 ATC Load - Set Formatter to Day Rate 00:03:15 late (for 50/50 SSR buffer)

Tuesday, September 19, 2000

None

Wednesday, September 20, 2000

None

Thursday, September 21, 2000

265/12:57:43 Real-Time OA-16: SD/SDSM Screened

265/14:32:49 Real-Time OA-15: SD/SDSM Open

Friday, September 22, 2000

None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, September 16, 2000

None

Sunday, September 17, 2000

None

Monday, September 18, 2000
None

Maneuvers:

The next Drag Makeup Maneuver is planned for October 4th.

MODIS Anomalies:

Continued monitoring for formatter errors and loss of cooler margin.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Non-MODIS Significant Events:

None

Limited Life Item Status:

SRCA 10W Lamp #1: 173.5 of 500 hours
SRCA 10W Lamp #2: 135.9 of 500 hours
SRCA 10W Lamp #3: 145.1 of 500 hours
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.1 of 4000 hours
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1417 of 3022 Movements
Nadir Aperture Door: 532 of 1316 Movements
Space View Door: 437 of 1316 Movements