

MODIS IOT Weekly Report

Mission Operations Days: 2000/134 to 2000/140

May 13, 2000 20:00:00 GMT to May 19, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

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	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67	Nominal

This Week's Completed MODIS Activities:

Friday, May 12, 2000

133/20:30:00 – 22:30:00

ATC OA20 10W Radiometric cont constant current w/o ND filter

134/02:30:00 – 06:10:00

ATC OA21 1W Radiometric cont constant current for 2 orbits

Saturday, May 13, 2000

134/10:49:58 ATC Set SciAbnormal Flag
134/10:50:00 – 11:22:33 ATC OA25 1W Spatial w/ sector rotation
134/11:22:35 ATC Clear SciAbnormal Flag
134/15:49:58 ATC Set SciAbnormal Flag
134/15:50:00 – 16:22:33 ATC OA25 10W Spatial w/slit reticle and sector rotation
134/16:22:35 ATC Clear SciAbnormal Flag
134/17:29:21 - 17:51:17 DATA LOSS - Unrecoverable

Sunday, May 14, 2000
None

Monday, May 15, 2000
136/12:00:00 ATC Blackbody to 270K

Tuesday, May 16, 2000
137/06:00:00 ATC Blackbody to 280K
137/10:00:00 ATC Blackbody to 285K
137/12:00:00 ATC Blackbody to 290K
137/13:57:35 Real-time Set Blackbody duty cycle to FULL
137/14:00:00 ATC Blackbody to 295K
137/16:00:00 ATC Blackbody to 300K
137/18:00:00 ATC Blackbody to 315K
137/20:00:00 ATC Blackbody to 270K
137/20:00:00 Real-time Set Blackbody duty cycle to THIRD

Wednesday, May 17, 2000
138/19:00:00 ATC Blackbody to 290K
138/19:10:00 Drag make-up maneuver - successful

Upcoming MODIS Events:
Thursday, May 18, 2000
None

Friday, May 19, 2000
140/?? ATC OA15 SD/SDSM Open
140/?? ATC OA16 SD/SDSM Screened

This Week's Scheduled MODIS Activities Not Completed:

No SD/SDSM activities were run this week. Monday's activities were deleted from the timeline during the system upgrade. A DR was submitted for this anomaly. Wednesday's activities were not scheduled due to the drag make-up burn which occurred that day. Friday's activities were not scheduled because of planning aid issues related to the burn. The nominal SD/SDSM activity schedule should resume next week.

Upcoming MODIS Events:

Saturday, May 20, 2000

None

Sunday, May 21, 2000

None

Monday, May 22, 2000

143/?? ATC - OA15 SD/SDSM Open

143/?? ATC - OA16 SD/SDSM Screened

143/20:02:00 ATC - Blackbody to 270K

Tuesday, May 23, 2000

144/14:00:00 ATC Blackbody to 315K

144/16:22 Real-time Set Blackbody duty cycle to 100%

144/21:00:00 ATC Blackbody to 270K

144/21:23 Real-time Set Blackbody duty cycle to 33%

Wednesday, May 24, 2000

145/19:00:00 ATC Blackbody to 290K

145/?? ATC OA16 SD/SDSM Screened

Thursday, May 25, 2000

None

Friday, May 26, 2000

147/?? ATC OA16 SD/SDSM Screened

Saturday, May 27, 2000

None

Sunday, May 28, 2000

None

Maneuvers:

Wed, June 21, 2000 – MODIS Roll (2000/173/23:28:43 – 23:35:13), roll degree = -17.45

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

The Ampex tape drive issue at White Sands has been resolved. Nominal data flow resumed on Day 139/00:00:00. Backlog reprocessing continues both at EDOS and the DAAC.

Limited Life Item Status:

SRCA 10W Lamp #1: 163.9 of 500 hours
SRCA 10W Lamp #2: 131.0 of 500 hours
SRCA 10W Lamp #3: 140.2 of 500 hours
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 554.3 of 4000 hours
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1343 of 3022 Movements
Nadir Aperture Door: 532 of 1316 Movements
Space View Door: 437 of 1316 Movements