

## MODIS IOT Weekly Report

Mission Operations Days: 2000/344 to 2000/350

December 8, 2000 20:00:00 GMT to December 15, 2000 20:00:00 GMT

### Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

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

### This Week's Completed MODIS Activities:

Friday, December 8, 2000

None

Saturday, December 9, 2000

None

Sunday, December 10, 2000

None

Monday, December 11, 2000

None

Tuesday, December 12, 2000

None

Wednesday, December 13, 2000

348/21:43:58 ATC OA-16: SDSM Screened

348/23:22:51 ATC OA-15: SDSM Open

Thursday, December 14, 2000

None

Friday, December 15, 2000

350/07:38:27 ATC Move Formatter to Night ahead by 3:23 to ensure 50/50 day/night

350/08:03:46 FOT ATC commanding: Begin Slew to -6.656 degrees

350/08:08:20 ATC Set Formatter to Day Rate

350/08:08:22 ATC Set SCIABNORM Flag to ABNORM

350/08:08:24 ATC PC DC Restore to OFF

350/08:08:26 ATC PV DC Restore to OFF

350/08:08:28 ATC Sector Rotation to -3072 (EA to SV and OBCs)

350/08:14:58 ATC Sector Rotation to Zero (Normal)

350/08:15:00 ATC PC DC Restore to ON

350/08:15:02 ATC PV DC Restore to ON

350/08:15:04 ATC Set SCIABNORM Flag to NORM

350/08:15:06 ATC Set Formatter to Night Rate

350/08:18:38 FOT ATC commanding: Returned to nominal attitude

350/08:34:38 ATC Move Formatter to Day later by 3:23 to ensure 50/50 day/night

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, December 15, 2000

None

Saturday, December 16, 2000

None

Sunday, December 17, 2000

None

Monday, December 18, 2000

None

Tuesday, December 19, 2000

None

Wednesday, December 20, 2000

None

Thursday, December 21, 2000

None

Friday, December 22, 2000

None

Maneuvers:

None.

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 304.

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: 176.3 of 500 hours  
SRCA 10W Lamp #2: 137.6 of 500 hours  
SRCA 10W Lamp #3: 146.8 of 500 hours  
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.3 of 4000 hours  
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1477 of 3022 Movements  
Nadir Aperture Door: 532 of 1316 Movements  
Space View Door: 437 of 1316 Movements