

## MODIS IOT Weekly Report

Mission Operations Days: 2000/337 to 2000/343

December 1, 2000 20:00:00 GMT to December 8, 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 1, 2000

None

Saturday, December 2, 2000  
None

Sunday, December 3, 2000  
None

Monday, December 4, 2000  
None

Tuesday, December 5, 2000  
None

Wednesday, December 6, 2000  
SD/SDSM activities  
341/21:27:26 ATC OA-16: SDSM SCREENED  
341/23:16:20 ATC OA-15: SDSM OPEN

Thursday, December 7, 2000  
None

Friday, December 8, 2000  
None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

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

None

Thursday, December 14, 2000

None

Friday, December 15, 2000

Roll maneuver of  $-6.656$  deg.

Starting at 350/06:33:00 with loss of pointing knowledge.

Maneuver starts at 350/08:03:54 and has a duration of 00:14:52.

Regain pointing knowledge at 350/09:38:00.

#### Maneuvers:

December 5, drag makeup maneuver went nominally.

December 15 MODIS roll maneuver to  $-6.656$  deg.

#### 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: 1471 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements