

## MODIS IOT Weekly Report

Mission Operations Days: 2000/351 to 2000/357

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

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Nominal

This Week's Completed MODIS Activities:

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

355/20:11:26 ATC OA-16: SDSM Screened

355/21:50:19 ATC OA-15: SDSM Open

Thursday, December 21, 2000

None

Friday, December 22, 2000

None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, December 22, 2000

None

Saturday, December 23, 2000

None

Sunday, December 24, 2000

None

Monday, December 25, 2000

None

Tuesday, December 26, 2000

None

Wednesday, December 27, 2000

None

Thursday, December 28, 2000

None

Friday, December 29, 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: 1483 of 3022 Movements  
Nadir Aperture Door: 532 of 1316 Movements  
Space View Door: 437 of 1316 Movements