



**Network
Control
Center**

**STDN DAILY REPORT
FOR GMT DAYS
31 MAY , 2001**

01, 02 AND 03 JUNE, 2001

Part I. Operations

31 MAY

A. SN Operation - None.

B. ISS Anomalies - None.

C. GN Anomalies:

1. WGS/TOMS-EP Support

31/161615-161949Z

Following AOS, the project started the 202khz dump. During the dump, we took 29 dropouts so the project wanted to re-dump the data. During the second dump, we started taking dropouts and then the 202 broke lock completely. All equipment looked nominal and could not find any problems in-house. Unknown what caused the loss of the D/L on the 202khz data. Following the LOS of the 202khz dump time, the 1khz data came on and we completed the support without any other problems.

CDS ID# 18901

**11M 1609-1622Z 3 Mins. 44 Secs. Service/Data Loss
Recoverable**

D. TDRS-1 West maneuver was nominal.

01 JUNE

A. SN Anomalies:

1. HST Support

01/1948-1950Z

HST attempted to send a GCMR at 19:48:17 to change to mode 2. The GCMR was not received at STGT. HST sent another GCMR at 19:50:49 which was received with no further problems. HST declared a data loss of 2 minutes/36 seconds of 32k engineering data. TTR # 23915

TDW MAR2 1930-2013Z 2 Mins. 36 Secs. Svc/Data Loss Non-Recoverable

2. LSAT-4 Support

01/2136-02/0001Z

1. Blind acquisition with no lock. CSC sent forward reacquisition, OPM-06 EIRP to high power forward frequency sweep.
2. Blind acquisition with no lock. CSC tried return reacquisition, user frequency re-specification, return link failover.
3. CSC sent GCMR for 125bps on the forward, sent a forward reacquisition, OPM-06 for high power EIRP, locked at 153/00:01:00Z.

POCC believes the spacecraft was misconfigured for these events.

171 SSA2F/R 2136-2156Z 20 Mins. Data Loss
TDS MAF/R 2215-2225Z 10 Mins. Data Loss
TDS SSA2F/R 2350-0020Z 11 Mins. Data Loss

B. ISS Anomalies - None.

C. GN Anomalies:

1. AGS/TRACE Support

01/1514-1521Z

Packetizer #3 would not respond to the TPCE workstation.

The Packetizer had to be rebooted before socket connections could be established. Data was recorded and played back from tape post pass. Real time data and commanding was unavailable during the anomaly. CDS ID# 18908

TOTS-1 7 Mins. Service/Data Loss Recoverable

2. MIL/LANDSAT-4 Support

01/1300-1452Z

Setting up for Landsat-4 support sending Data Gen. through the RF and Telemetry system the PSK Demod was not locking to the RF 8KB turnaround. Upon troubleshooting found that the RF Switch was not outputting 8KB to the PSK Demod. For Landsat-4 support we bypassed the RF Switch. No data lost. Problem under investigation with Goddard Engineering. CDS ID# 18910

02 JUNE

A. SN Anomalies:

1. LANDSAT-4 Support

02/1848-1918Z

LANDSAT-4 experienced negative acquisition. IR did not lock/no RF present on spectrum analyzer. POCC did brief this event was a blind acq and they were trying a new procedure for this near EOL event. TTR # 23917

171 SSA1F/R 30 Mins. Service/Data Loss Non-Recoverable

B. ISS Anomalies - None.

C. GN Anomalies:

1. AGS/EO-1 Support

02/0236-0238Z

Master was not configuring equipment properly. We configured station manually, When pre pass was going on, found out that the

PTP would not connect to project. Took resetting the PTP twice before connection was established. Project states we lost the first few minutes of VC 0 & 1. The master would not configure the Bit syncs, or Analog switch properly. CDS ID# 18911

11M 2 Mins. 38 Secs. Service/data Loss Non-Recoverable

2. AGS/EO-1 Support

02/0548-0601Z

Project was indicating no connection to PTP, and was saying the indication at the project end was similar to the problem on the last pass. And on the AGS end on the last pass we were showing no connection on the AGS side as well. This pass, the AGS PTP was showing a connection and was locked to the Bit synch. Unable to command during this pass. All data was received from downlink on both X and S band. Suspect no telemetry loss. But commanding was a failure for entire pass. Contacted COMM Manager and IP NOC, and IP NOC is showing a problem between our IP address used and the far end. Troubleshooting is on going. CDS ID# 18912

11M 13 Mins. Service Loss

03 JUNE

A. SN Operation - None.

B. ISS Anomalies - None.

C. GN Anomalies:

1. AGS/LANDSAT-7 Support

03/1953-1956Z

After AOS and go for command Landsat -7 sent at test command but did not receive an echo. After investigation the anomaly was the digital switch failed to configure properly. Once the switch was configured correctly Landsat-7 MOC was able to verify commands getting into the spacecraft. CDS ID # 18917

11M 1953-2007Z unable to command for 3 minutes.

2. WGS/SOLAR Support

03/1856-2040Z

Approximately 1 minute into the dump the downlink dropped out. This occurred on both orbit numbers listed above. The antenna had acquired the downlink and had been tracking for a couple of minutes prior to the dump coming on. Approximately one minute into the dump the downlink just dropped out, reason unknown. On the first pass the antenna appeared to program track along when it lost autotrack and reacquired when the downlink came back on. On the second pass the antenna appeared to stop tracking when the downlink was lost and did not go to program, it took manual intervention to put the antenna back on the bird.
CDS ID # 18918

11M 1851-1902Z 2 Min. Svc/Data Loss (Non-Recov)

11M 2032-2044Z 3 Min. 30 Sec. Svc/Data Loss (Non-Recov)

Part II. Testing Anomalies

A. SN Test:

1. Long Duration Balloon Engineering Test 31/1800-2000Z NCC/STGT/NASCOM,
LDBP POCC/LDB
PAYLOAD I&T

OBJECTIVES:

Verify command and telemetry data interfaces between the LDB POCC and the SN.

RESULTS: OBJECTIVE PARTIALLY MET.

REMARKS:

The test objective was partially met due to some commands not being accepted by the payload. LDB engineers suspect a POCC software problem. Telemetry data transmission to the POCC was nominal. Testing will continue in the near future.

B. GN Test:

1. STS-104 RANGE SAFETY 30/1300-1700Z NCC/NISN/JSC/
VERIFICATION TEST MIL/XY/WPS/
CCC/RCC/TEL-
4/JDIF

OBJECTIVES:

To verify the stations capability to support the STS mission range safety telemetry requirements.

RESULTS: OBJECTIVE PARTIALLY MET.

REMARKS:

Data flows, per the 1108 test script, were successfully accomplished with all telemetry sites required to support range safety during the upcoming mission. Wallops time delay measurements could not be performed because to a faulty time code generator. Wallops reported that there were no spares available on site. A test will be scheduled at a later date to accomplish the time delay measurements.

Part III. Equipment Status Changes - None.

\$ = Changed ETRO

** = New Items

Part IV. Scheduled Activities:

GOES-M I&T Telemetry, Tracking and Command Test
04/1255-1355Z

HITCHHIKER HEAT JOINT INTEGRATED SIMULATION
04/1300-1700Z

USCG TILT RF TDRS-1 Checkout

04/1400-2200Z

Part V. Launch Forecast Changes - None.