



**Network
Control
Center**

**STDN DAILY REPORT
FOR GMT DAYS
29 AND 30 MAY , 2001**

Part I. Operations

29 MAY

A. SN Operation:

1. WSGT/LSAT-4 Support 29/1902-1912Z

Negative acquisition due to a POCC scheduling error. The POCC scheduled a high gain RCP Sho instead of an Omni LCP SHO.
TTR # 23904

275 SSA1 10 Minutes Data Loss Non-recoverable

2. WSGT/HST Support 29/230000-235959Z

IP NOCC failed to correctly map WSC NLIC cards following a reset on the MDM. Additionally, a file was found locked. After it was unlocked WSC mux NLIC cards began to function normally.
TTR # 23906

232600-000130Z TDE MAR3 35 Minutes Svc/Data Loss
Recoverable

B. ISS Anomalies

1. STGTISS Support 29/0640-0652Z

DFE reported receiving no data from AOS to 06:51. Online chain (SSA1RA) showed IR lock and good EB/N0, but no frame sync. Failover to chain B was accomplished and POCC started

receiving data. No alerts were received to indicate problem at start of event. LOR showed data was recorded. POCC is reporting no data loss, no playback needed. TTR # 23903

TDS 0640-0730Z 11 Mins. 6 Secs. Service Loss

C. GN Anomalies:

1. WGS/SWAS Support

29/0706-0716Z

TOTS data drop outs and no real time commands on SWAS. Almost immediately after AOS the CRC counts started counting up. It appeared the video was degraded and the data combiner was dropping in and out. It was verified that the autotrack angles were good, the system maintained autotrack throughout the pass. Reason for degraded data is unknown at this time. There was a SAMPEX pass prior to this pass and a TRACE pass following. Both the SAMPEX and TRACE were clean. Also be advised that the SAMPEX and the SWAS tracks were almost identical angles. All three satellites are the same downlink frequency, with the data rates ranging from 900K to 2250K. CDS ID # 18880

TOTS Data Loss Unknown

2. AGS/QST Support

29/0404-0730Z

At 04:04:00 we lost our T1 and E1 lines. It was soon discovered that power outage down at the office (Timeplex Node 150) that caused this. The local power plant told us that this was a planned power outage, and that it had been advertised through the local newspaper. None of the SvalSat team had seen this advertisement, so we were not prepared. At 05:40:00 the power was back at the office, and Goddard Tech CTRL was notified. We still didn't have communication and started more troubleshooting. It was revealed that a couple of fuses were blown down at the office, and at 07:00:00 these fuses were corrected. Goddard Tech Control and IP NOC were notified for re-initialize the communication, and at 07:30:00 all communication lines were working as normal, and the QST files were pushed to our L-SAFS. CDS 18881 This DR is considered closed.

11 Meter 0402-0418Z No Data Loss Declared

3. SKS/QST Support 29/1234-1246Z

Loss of 4 KB telemetry data, due to power cut on Svalbard, TNOOC was unable to connect to server. CDS 18883

13 Mins 07 Seconds Data Loss Non-Recoverable

4. SKS/QST Support 29/0726-0739Z

Loss of 4 KB telemetry data, due to power cut on Svalbard, TNOOC was unable to connect to server. CDS 18884

13 Mins 21 Seconds Data Loss Non Recoverable.

5. WGS/TRACE Support 29/2304-2315Z

TRACE called and wanted a DR on the TOTS system due to a 10 percent CRC error rate. At the present we have a problem with all satellite supports. The TOTS system has a problem in the antenna either in the down converter or feed. Troubleshooting is in progress. CDS ID# 18886

TOTS 11 Mins. Data Loss Recoverable (Unknown)

30 MAY

A. SN Operation:

1. TOPEX Support 30/0742-0748Z

TOPEX experienced a late acquisition due to a POCC scheduling error. FDF Product Server showed that the spacecraft was not in view of TDE until 074820Z. TTR # 23907

TDE SSA1F 1K 0742-0811Z 6 Mins. Service/Data Loss

Recoverable

TDE SSA1R 16/16K 0742-0811Z 6 Mins. Service/Data Loss

Recoverable

2. TOPEX Support

30/0813-082009Z

Return service failed to acquire at SHO start time. No return signal was visible on spectrum analyzer. POCC sent a return REACQ and requested the CSC send a return REACQ. Seven minutes into the service RF was visible on the return link. POCC advised that their spacecraft had just completed a yaw flip maneuver and the HI Gain Antenna may have been in motion during the return service. TTR # 23908

TDE MAR3 16/16K 0813-0848Z 7 Mins. 9 Secs. Service Loss

3. LANDSAT-7 Support

30/145505-1506Z

POCC reported dropouts in their forward service starting at 14:55:05Z until LOS. CSC asked GUAM LMT to monitor while POCC sent a FWD test command, the command was observed at GRGT. CSC sent one FWD REACQ, it failed to resolve the problem. TTR # 23909

275 MAF 1451-1506Z 10 Mins. 55 Secs. Service Loss

4. LANDSAT-4 Support

30/1708-1730Z

Negative acquisition for entire event. POCC added event to schedule, and attempted a blind acquisition. POCC sent commands to satellite, but with no joy. Not enough remaining time in event to sent OPM 2 and re-send commands to turn on satellite. TTR # 23911

TDS SSA2F/R 8K/8K 22 Mins. Service/Data Loss Recoverable (Unknown)

5. LANDSAT-4 Support

30/1816-182433Z

POCC experienced a late acquisition due to a spacecraft

misconfiguration by the POCC operator. TTR # 23912

171 SSA1F/R 1816-1826Z 8 Mins 33 Secs Svc/Data Loss Non-Recoverable

6. UARS Support

30/190930-193024Z

Negative acquisition at AOS due to corrupted status table bit map in the MA Subsystem Controller. This corruption appears to have occurred during return to service of the MA system following an engineering activity. Correction of status bit map parameter cleared problem and restored service. This anomaly is under investigation. TTR # 23913 DR # 43087

TDW MA 1909-1938Z 20 Mins. 54 Secs. Service/Data Loss Non-Recoverable

7. WSGT/FUSE Support

30/2312-31/0004Z

Fuse event starting at 23:12:00Z and schedule to run until day 151/0034Z was deleted by NCC scheduler. The SHO downloaded normally and started. The SHO was terminated by the NCC scheduler at 2313Z. NCC scheduler created another FUSE event with start time of 2330Z and ending at 00:04:00Z. FUSE POCC said that they expected the replacement SHO to end at 0010Z but the SHO, as scheduled, ended six minutes earlier at 0004Z. POCC stated they did not download any return data, only their forward data was affected. TTR 23914

2312-0034Z 275 SSA1R 17Mins. 53 Secs. Service/Data Loss
2330-0004Z 275 SSA1F 6 Minutes Service/Data Loss

B. ISS Anomalies:

1. ISS Support

30/150030-1525Z

POCC reported not receiving the 50m K-Band data at AOS. GE-AMERICOM found site select switch set to WSGT instead of STGT, positioned switch to STGT and restored 50m K-Band. TTR # 23910

171 1500-1547Z KSAR 24 Mins, 30 Secs Service/Data Loss Recoverable

C. GN Anomalies:

1. SGS/LS7 Support

30/102125-102420Z

At AOS the analog and digital matrix went red. Both had to be setup manually and at 10:24:20 we managed to get proper lock on the PTP desktop. Master and Nodes restarted after support. In addition LS7 reported problems with the carrier. We had normal startup / sweep sequence for the uplink, but on the PTP desktop it showed an absent clock. Reason unknown. Matrixes checked, but none further setup fault found. CDS ID# 18887

11M 2 Mins. 55 Sec. Service/Data Loss Recoverable

2. WGS/QUICKSCAT Support

30/223257-224138Z

At the appropriate time, the master sent the schedule out to all systems. We did have the upgrade screen on the SCC, but once the system was upgraded, no schedule appeared on the SCC screen. Operator failed to notice that the schedule did not get to the SCC. Once we saw that the 11M was not doing a prepass, went into the SCC and manually scheduled the track. This is an ongoing problem between the SCC and the master. CDS ID# 18891

11M 6 Mins. 47 Secs. Service/Data Loss Recoverable

D. NAM 545 NCCDS Slowdown During TDRS Scheduling Window (TSW) Processing was issued.

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test.

1. PEGASUS/HESSI TLM/LTAS 29/1230-29/1930Z NCC MOSA
MDDF E-T-E DATA FLOW NISN/WPS/
WF/ KSC CD&SC/ER
(RTCS,X-Y,TEL-4) ANDH/AE

Objectives:

- A. To verify that WPS can strip the LTAS/MDDF data from the Pegasus telemetry stream and forward to the ER.
- B. To check the modification to the TELPRO at WFF.
- C. Perform an End-To-End Pegasus telemetry and radar data flow with launch participants.

Results: Objective Partially Met.

Remarks:

Objectives were partially met. WPS (WOTS) transmitted the full rate 115.942 kb taped Pegasus telemetry data to WFF (Gold-86A) and H/AE. H/AE successfully received the WPS telemetry data and transmitted the data to TEL-4. Lemon One (ER) in turn successfully received the data from TEL-4 and was able to strip out the LTAS. However, Lemon One did not receive good LTAS or MDDF data from WFF/Gold-86A. After several hours of fault-isolation, it was determined that the TelPro at the Wallops Read-out Room has an apparent software anomaly. Another WPS/WFF/Lemon One LTAS/MDDF data flow will be required once the TelPro is corrected; test date is TBD. The data flow will NOT require H/AE or TEL-4 involvement.

Part III. Equipment Status Changes

A. Green Items Since Last Report

1. AGO 863: LR12:01-L1, R, 05241300Z,
GREEN 05301630Z. Motor/HYD coupling repaired.

B. GN Red Items:

\$ 1. WPS 931: TR7V:03, D Analog Mag Tape RCRD 7TRK R, 05250050Z, ETRO 06042359Z. Recorder has short causing 01 reel motor Power supply amplifier card assy 533484-001A to burn Out on the board. Troubleshooting in progress.

**2. WPS 932: LDO:01-L2, 9MT Antenna System, RY 05302100Z, ETRO 06042359Z. System has both a Hydraulic leak and Gear Box leak. Parts have been ordered. System can only Be operated when a Hydraulic Maintenance Technician is Available to watch the system.

\$ = Changed ETRO

** = New Items

Part IV. Scheduled Activities:

NOAA-M AFSCN Data Flow Test	31/1500-1900Z
HESSI Operations Readiness Testing	31/1709-1800Z
LONG DURATION BALLOON (LDB) Engineering Test	31/1800-2000Z

Part V. Launch Forecast Changes

* 1.) M2104LS (STS-104/ISS-10-7A) NET 05 JUL.,2001 T-0 = UNKNOWN

* 2.) M2105LS (STS-105/ISS-10-7A1) NET 08 AUG.,2001 T-0 – UNKNOWN