



**Network
Control
Center**

STDN DAILY REPORT
FOR GMT DAYS
23,24 AND 25 JULY , 2001

Part I. Operations

23 JULY

A. SN Anomalies - None.

B. ISS Anomalies:

1. STGT/ISS Support

23/0907-0909Z

ISS DFE reported taking hits on the S-band service from 09:07:42Z to 09:08:38Z, reason unknown. Comm Mgr. reported hits on the T1 lines between WSC and Houston at about the same time. The lines were alt-routed through Goddard to clear the problem. TTR 23976.

TDS SSA1F/R 0823-0916Z 57 Sec. Svc/Data Loss (Recov)

C. GN Anomalies:

1. WGS/TRACE Support

23/1021-1032Z

Excessive CRC errors on TOTS. Antenna took over 5% CRC errors on Trace pass, reason unknown. There was approximately the same amount of errors on both front end processors. The CRC errors happened during the first few minutes of the pass, prior to the antenna reaching PCA. The TOTS system has needed another down converter or LO for the spare we have for several months, this could possibly be the problem with the intermittent problems we are having at the station. CDS ID # 19268

TOTS 1021-1031Z Data Loss is unknown

2. WGS/IRS Support

23/1430-1440Z

Display does not update on IP3 computer. After AOS the display on the IP3 computer stops updating. The computer FS indicates good look and the file size of the data appears proper. CDS ID # 19274

11M 1609-1621Z 22 Min. Svc/Data Loss total for both passes.

24 JULY

A. SN Anomalies:

1. WSGT/UARS Support

24/0004-0010Z

Due to station weather POCC declared 4 minutes and 54 seconds data loss. TTR # 23977

TDE MAF/R6 0004-0024Z 4 Min. 54 Sec. Svc/Data Loss (Non-Recov)

2. STGT/TOPEX Support

24/1312-1708Z

Late Acquisition Event failed to acquire at start of return service. Station transmitted a return re-acquisition GCMR per POCC request event locked up after OPM-2 was processed. TTR # 23978

REASON UNKNOWN

TDS SSA1F/R 1312-1322Z 2 Min. 44 Sec. Svc/Data Loss (Recov)

171 SSA2F/R 1658-1708Z 3 Min. 30 Sec. Svc/Data Loss (Recov)

B. ISS Anomalies - None.

C. GN Anomalies:

1. PF1/EO-1 Support

24/0036-0046Z

EO1, orbit 3530, automation software froze. The automation software froze while configuring the ground station and the operator was not able to recover and manually configured the station for the support. CDS ID # 19294

S-Band 9 Min.52 Sec. Svc/Data Loss (Non-Recov)
X-Band 9 Min. 52 Sec. Svc/Data Loss (Non-Recov)

2. SGS/AM1 Support

24/1800-1815Z

E1 line down. Goddard Tech reported problem with the E1 line at approx. 1800Z. We contacted the local carrier TELENOR who concluded a hardware fault with a TELENOR unit located at the SGS office. CDS ID # 19299

11 METER Antenna Data loss unknown

3. AGS/SWAS Support

24/2047-2101Z

Antenna ran away during support. Antenna ran away at least six times during support. Antenna was forced into program track to lock back onto the spacecraft, but couldn't hold lock. RHC tracking receiver was forced and seemed to hold lock better. An unknown number of commands may have been missed. An unknown amount of data was lost as the Master Computer reported LOS a number of times when data was still present. CDS ID # 19293

TOTS-1 Data Loss unknown and unrecoverable.

4. SGS/QST Support

24/1830-0005Z

T1 line problem impacted three QUIKSCAT supports. The anomaly was found to be a blown fuse between the

Norway Office and Hill. Total data loss 45 minutes and 46 seconds. CDS ID # 19297

11M 1857-1913Z Svc/Data Loss (Recov)
11M 2037-2053Z Svc/Data Loss (Recov)
11M 2356-0012Z Svc/Data Loss (Recov)

5. AGS/TEP Support

24/1913-1921Z

Loss of signal at 7 min into support. LOS at 19:13:16. AGCs went to -15 for tracking receivers and -4 for data receivers. There are signals on the RHC tracking receiver SDU, but the receiver would not lock. Attempted turning off/on autotrack with no effect. The antenna continued to track the spacecraft in program track. TMOC said they didn't have a problem since their command was successful. After the support configuration 7 (TEP) was reloaded and the signals on the RHC tracking receiver were no longer present. CDS ID # 19288

TOTS-1 1906-1921Z 7 Min. 17 Sec. Svc/Loss

6. WGS/QST Support

24/2235-2237Z

Antenna had oscillation causing hits on 2Mb data. Following AOS and gaining autotrack, the antenna started oscillating. The oscillation was minimal and not noticeable in the camera. When the 2Mb dump came on, notice that we were taking hits and CRC errors. Checked the antenna and saw some oscillation. Put the antenna into program track for remainder of support. No other problems noted. The oscillation did not affect the 4kb data. CDS ID # 19296

11M 2231-2246Z 1 Min. 22 Sec. Svc/Data Loss (Recov)

25 JULY

A. SN Anomalies

1. TERRA Support

25/032940-033018Z

At 03:29:40z POCC lost lock on S-band service. Timeframe was within 38 seconds of service termination so no GCMR's could be sent. Whether there was a concurrent loss of RF is unknown as STS-104 was being monitored at the time. POCC is investigating further to check for spacecraft problems. TTR # 23979

TDS SSA2 0305-0330Z 38 Secs Service/Data Loss
Recoverable

2. TOPEX Support

25/065007-065301Z

Return service started at 06:48:30, 16k/16k I and Q channel. Both SSA2 return chains acquired nominally at AOS. At 06:50:07 a GCMR for 256k Q channel was sent in by the POCC. both of the integrated receivers on SSA2 failed to configure at the new data rate. Chain recovery consisted of failing down and RFM on the SSA2R "B" (HSM) chain. That chain recovered and an auto fail over "A" to "B" occurred at 06:53:01. TOPEX POCC was notified of the good chain and was told to continue on with their planned activities. The "A" chain was then recovered in similar fashion. TTR # 23980

TDE SSA2F/R 0648-0718Z 2 Mins. 54 Secs. Service Loss

B. ISS Anomalies - None.

C. GN Anomalies:

1. AGS/TRACE Support

25/061234-062415Z

Prior to AOS, system did a complete turnaround with no problems indicated. Pass started on time and remained in program track for the entire pass without ever acquiring the spacecraft. Operator tried inserting +/- 20 seconds with no affect.

Problem is being investigated. CDS ID# 19301

TOTS-1 11 Mins. 40 Secs. Service/Data Loss Non-Recoverable

2. AGS/TOMS-EP Support

25/083442-084930Z

Antenna remained in program track for the entire pass and never acquired the space craft. Operator moved time offset +/- 20 seconds with no luck. Problem is under investigation.

CDS ID#19302

TOTS-1 13 Mins. Service/Data Loss Non-recoverable

3. AGS/FAST Support

25/2006-2016Z

Negative acquisition, lost 28VDC in pedestal to feed. LEO-T patched over data at 2016z. Troubleshooting in progress.

CDS ID# 19317

TOTS-1 2005-2035Z 10 Mins. Service/Data Loss Non-recoverable

D. STS-104 landed at 0338:54Z was nominal.

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test - None.

Part III. Equipment Status Changes:

1. AGS Time Capture UNIT NUMBER 1 Declared Red 20/1950Z

\$ = Changed ETRO

** = New Items

Part IV. Scheduled Activities:

Project Antenna	26/0345-0900Z
SN Post Launch Critical Support of MAP	26/0954-1122Z
QuickTOMS Day 3 Mission Rehearsal 3	26/1200-2100Z
AQUA MRTT/PF1 EGS #11.a.1 TT&C Data Test	26/1300-1700Z
STS-105 Verification/Validation Test	26/1621Z-2217Z

Part V. Forecast Changes

- * 1.) M2105LS (STS-105/ISS-10-7A1) 221 09 AUG.,2001 T-0 – 2138Z
- * 2.) H4343LS (TAURUS/ORBVVIEW-4 QUICKTOMS) 233 21 AUG.,2001 T-0 = 1835Z
- * 3.) H3739LS (DELTA/JASON/TIMED) 258 15 SEP.,2001 T-0 = 0758Z