

## EO-1 Weekly

**Week of May 25 thru May 31, 2001**

### Significant Events

Set UT1/UTC polar motion values on the GPS (see ER 59).  
Performed GPS long data collects.  
Received first Cordoba tape.

### Instrument Activities

Hyperion Cryocooler on/off times:	On	145/1045
	Off	148/2100
	On	149/0900
ALI heated out-gassing operation:		146/18:00-147/11:00
Yaw steering:	Enabled	146/00:57
	Disabled	146/01:48
	Enabled	146/07:33
	Disabled	146/08:24

### Operations

Aiming for 6 scenes per day.  
Experiencing a problem with suspension of commanding, see DR# 457 (PF1), 460, and 461 (SGS). The support starts normally, but around the time of the first command, Crossbow goes Suspended.  
Crossbow is spontaneously creating tasks (specifically, the limit checker proc created to turn limits on and off). One task is created manually, and others spontaneously appear. See DR 462.  
Had some queue full errors on the software bus. A DR was written and assigned to Al Hawkins, as the telemetry indicated the problem was caused by EFF.

### Ops Instructions performed

- 600.ALI outgassing
- 601.Load and enable RTSs 196 (close ALI cover), 197 (open ALI cover to 60 degrees), 198 (ALI outgas end), and 199 (ALI outgas start) for automation purposes
- 602.Set UT1/UTC polar motion values on the GPS
- 603.GPS VR3 long data collect (x'37')
- 604.LFSA data collect
- 605.Reset MV software bus and software manager error counters
- 606.Load new version of RTSs 91 (DR 443)
- 607.Load, enable, and test RTS 93 (ER 56)
- 608.GPS VR3 long data collect (x'37')
- 609.LFSA data collect
- 610.Update GPS EOP values
- 611.Load and enable RTS 195 (DBCR 419)
- 612.Test RTS 195

### Discrepancy Reports opened this week

- 452.No Telemetry nor Commanding through AGS
- 453.Not Enough Time for VR Dump
- 454.AGS: No telemetry & No Commanding
- 455.Conflicting Dumps
- 456.Software Bus Queue Full Error
- 457.Unable to Call Feds During Pass
- 458.Windgust at PF1 G/S Significantly Effecting X-Band Playback
- 459.Noticed Sequence Errors in Warp Dump
- 460.Commanding Suspended with SGS pass
- 461.Lost Commanding with SGS
- 462.Spontaneous lim\_state\_checks appearing as tasks on Crossbow
- 463.TSM 60 trip after 2 Solar-cals

## EO-1 Weekly

### Upcoming Events

X-Band Phased Array Antenna (XPAA) Steering Override Test on 6/8/20  
EFF Burn Pair on 6/7/2001  
Testing of autonomous ground contacts

### Number of Real-Time Supports (from daily reports)

35 2Meg coherent S and X band  
35 2Meg coherent S band only  
7 Hobart X Band only passes  
3 Cordoba X Band only passes  
4 TDRSS supports

#### Problem supports:

AKS: 19:50:07 - 20:02:06 Day 146. 5000+ seq errors due to 30mph windgust at G/S at AOS. This seems to have only effected the first 2.5 minutes of the dump, a manual re-dump was performed immediately after the first was completed. Images 147/1644 IA and 147/1825 Santa Barbara were effected, this was the only support to bring these down. It is believed that the effected frames were recovered, but this won't be known for sure until the DPS processes the images. Datalynx DR # 18876, EO1 DR # 458

AKS: 23:05:51 - 23:17:04 Day 146. There were 162 seq. errors on the WARP and 5 seq errors on Hyperion SWIR. A manual re-dump was performed at the end of the pass. The re-dump did not complete. Since most of the seq. errors occurred at the beginning of the pass, it is believed that most of the data was recovered. DPS should be able to advise on the recovery when the tape is received. Image effected was NZ08E. Datalynx said the errors were caused due to high winds at the station causing the antenna to shift during the pass. EO1 DR # 459 and Datalynx DR# 18877

### Number of Scenes

43 science collections scheduled.  
3 of these may not have been taken or recovered completely. See Poker support Day 147 19:50 and 23:05 for details.  
3 of these were ALI, Hyperion or AC solar calibrations or Lunar Cals or ALI internal Cal.

### Number of Scenes Processed

Tapes 59, 60 and 61 were created and sent this week containing 63 DCE's.

### Operational Changes

Looking at possibility of doing two images on an orbit over conus.  
Also looking at how to use cloud cover predicts  
Planning automation. Plan to begin taking automated passes in the June timeframe.  
A suggestion to add the use of the playback DQM option at Datalynx is being investigated

### Staffing

We will revisit staffing levels in June. Continuing 24x7 console operations. 16x7 Data Processing.