

**EARTH OBSERVING - 1****June 15, 2001 - June 21, 2001****DOY 01-166 – 01-172****Mission Day 207 - 213****SUMMARY**

The EO-1 spacecraft and instruments performed nominally this week. Enhancement Request #60 was performed which places the panel #4 calorimeters normal to the sun for a portion of an orbit. This request will be repeated several times to build a data set.

Operations automation is proceeding on schedule.

**INSTRUMENTS****HyperSpectral Imager (HSI)**

HSI cryogenic cooler de-icing operations were performed during the following times;

HSI Cryocooler <b>OFF</b>	HSI Cryocooler <b>ON</b>
01-165/18:30z	01-166/10:30z
01-169/13:16z	01-170/10:00z

An HSI special limb solar calibration was performed at 01-169/07:23z.

**Advanced Land Imager (ALI)**

An ALI heated out-gassing operation was performed from 01-165/18:20 to 01-166/09:30z.

An ALI solar calibration was performed on 01-170/03:22z.

**Atmospheric Corrector (AC)**

An AC solar calibration was performed on 01-169/22:24z.

**TECHNOLOGY ACTIVITIES**

Per ER #60, the Carbon-Carbon panel (panel #4) was briefly positioned normal to the sun on 01-175.

**OPERATIONS**

Crossbow is still spontaneously creating tasks lim\_state\_checks.

**Ops Instructions Performed**

- 639 Test RTS 031 – GPS WatchDog Timer Reset Recovery
- 640 Load/Enable/Start RTS 31 (GPS Watchdog Reset)
- 641 Dump EFF Tables
- 642 To Update EO-1 Ephem (if needed)
- 643 Load 3 EFF Tables and continue running EFF Script #2 in Manual Mode
- 644 Dump EFF Burn Plan
- 645 Solar Array Characterization Test (RTS 30)

**New Discrepancy Reports**

- 478 Spontaneous ASIST task generations
- 479 LOSS OF AGS SUPPORT DUE TO AGS ANOMALY
- 480 AGS-POWER LOST
- 481 SGS HPA down, unable to CMD

482 Socket connection problem  
483 GROUND STATION SOFTWARE FROZE  
484 Lost CMD at SGS

### **New Enhancement Requests**

61 Allow EO-1 Planning System to Schedule Dual Repointing Images

### **New Operations Database Change Requests**

426 JPL Load during Ground Pass  
427 RTS 46 Change

### **UPCOMING EVENTS**

ER 60 hold Carbon-Carbon Radiator to sun position will be performed on 01-175.

HSI cryocooler de-icing will be performed from 01-174/18:00z to 01-75/09:00z and from 01-177/18:40z to 01-178/11:00z.

ALI outgassing will be performed from 01-174/18:30z to 01-175/09:00z.

A formation keeping Dealt-V maneuver will be performed on 01-179.

Instrument Solar calibrations will be performed on 01-179 and 01-180.

A dual image re-pointing test will be performed on 01-176.

Yaw Steering tests will be performed on 01-174, and 01-178.

### **NUMBER OF REAL-TIME SUPPORTS (FROM DAILY REPORTS)**

31 2Meg coherent S and X band  
40 2Meg coherent S band only  
8 Hobart/Cordoba/Goddard X Band only passes  
4 TDRSS supports

#### **Problem supports:**

AGS 01-169/20:50z: DR #479  
AGS 01-170/01:42z: DR #480  
SGS 01-170/18:07z: DR #481  
AKS 01-170/23:11z: DR #482  
AKS 01-172/07:57z: DR #483  
SGS 01-172/16:16z: DR #484

### **NUMBER OF SCENES**

34 science collections were scheduled, of which 4 of these were instrument solar calibrations, Lunar calibrations, or ALI internal calibrations.

### **DATA PROCESSING**

Tape 67 was created and sent this week containing 21 DCE's, 3 of which were reprocessed DCE's.

### **OPERATIONAL CHANGES**

None

### **STAFFING**

Joan Frank is now the EO-1 Interim Mission Manager, and Tom Moore is the EO-1 Technical Lead. Automated spacecraft telemetry monitoring is running in parallel with real-time operations. A reduction in console coverage will follow the checkout period.