SMOV Status & Planning Meeting Notes  
5/30/09

Minutes provided by Burley (richard.j.burley@nasa.gov) and Biagetti (biagetti@stsci.edu)

- **Summary:** Observatory and instruments continue to perform nominally and according to plan. Early WFC3 activation activities compare nominally to SM4 Functional Test results. The first iteration of the ACS Optimization Campaign was successfully executed, dumped, and processed through OPUS. ASIC configuration and commanding have been verified while the STScI is continuing analysis of WFC image data.

- **Observatory Status**
  
  o  **PCS/SAC**
    - Nominal. No new issues.
  
  o  **EPS**
    - EPS performance continues to be nominal.
    - The load is approximately 73A
    - The system SOC is reaching approximately 507Ah.
    - The battery temperatures remain low ranging between -4 and -1.0 deg C with excursions to just below 0 deg C when the redundant heater cycles on (once every 24 hour period). SRodgers
  
  o  **TCS**
    - HSTAR 11854; At 150/08:42:25, mnemonic EFHST18T (FHST-18 Temp) began intermittently flagging out of limits, yellow high at 14.107 deg C. Database yellow high limit is 14.0 deg C.
  
  o  **I&C**
    - Nominal
  
  o  **DMS**
    - Nominal.
  
  o  **486FSW**
    - Nominal
  
  o  **SAFING**
    - Subsystem is nominal.
    - OPS Request 18462 will be executed on GMT 152/18:35 to 152/19:35 to perform RMGA preventative maintenance (i.e., bearing lubrication)
      - by power cycling this unit.
      - RMGA contains backup gyros available for only PSEA HWSP usage.
  
  o  **SIC&DH & P/L FSW**
    - RTCS to clear the SBE in development.
  
- **SI Status** -- 4 instruments up in Operate
  
  o  **WFC3**
**Engineering**
- Nominal

**Science**
- See chart package (WFC3_11454_30May09) provided by JMacKenty giving Activation Test (proposal 11454) visits 2 and 3, including comparison to SM4 FT images.
- Shows WFC3 detectors and mechanisms continue to operate nominally and as expected.

**COS**
- Engineering
  - Status
  - Operate/FUV Operate, Nominal
    - Vacuum gauge ~4.5e-6 torr
  - Forward Plan
    - Initial NUV turn-on and signal processing check (1st of 3) scheduled for 151/12:00 UTC
    - OR to be submitted to clear COS event flag 2 following successful NUV turn-on to allow further NUV commanding to proceed
      - To be submitted in coordination with STScI before ~152/03:15 UTC and 2nd part of the signal processing check

**Science**
- Nothing to add.

**FGS/OTA**
- Engineering
  - Status; ABradley; All hardware nominal, there are no new HSTARs.
  - There were 4 GSACQs (Guide star pairs) spanning the previous 24 hours, All were successful. One even had 11 Type 3 maneuvers and held FL nicely.
  - Up-coming 24 hours:
    - 5 GSACQs (Guide star pairs) are planned over the next 24 hours
    - 3 single Guide star GSACQs with FGS 3 are planned over the next 24 hours.
    - The single Guide star Acqs will have FGS 1 Astrometry, performing 20 scans In clear filter over the 3 AMA targets, in preparation for the upcoming FGS 2 AMA moves.
    - The execution times are:
      - 12:40am in the ZOE
      - 2:15am ½ in the ZOE
      - 3:50am ½ in the ZOE
    - An ETR dump has been arranged for 151:9:51 (5:51am) about 9 hours earlier than originally planned.

**Science**
- Nothing to add.

**ACS**
- Engineering
  - Nominal
  - Status
Operate/SBC LV
OR 18458-0 successfully executed 149/15:55 UTC to clear ACS Event Flag 2 to allow part 2 of the SBC recovery commanding to proceed
SBC “anomalous recovery” commanding with the first HV turn-on completed nominally

Forward Plan
- SBC dark current monitor begins 151/00:45 UTC
- Update to ASIC FSW values needed based on analysis of O-scope data
  - Plan for update to be presented at SMOV morning meeting ~Tuesday

Science (Golimowski)
- SBC UV Contam check done this morning and being fastracked, results tomorrow.
- WFC Optimization Campaign (OC) Iteration 1 completed and analysis is underway.
  - ASIC configuration confirmed.
  - See chart package provided by DGolimowski (ACSSMOV20090530)
    - Chart package shows early ACS-R performance summary.

STIS
- Engineering
  - Status
    - Operate/MAMAs 1&2 LVOn (SAA cycling)
    - MCE-1 Reset, Routine ESB message 734, @150/10:39
    - OR 18461-1 executed to restore nominal SDH tasking orders following final dump
    - One STIS Buffer RAM dump(CSIO09150095501.EFS) from this morning has been processed.
    - Report indicates that the STIS buffer has been loaded with zeroes; no bit flips occurred on the test executed.
    - Mech functional tomorrow night

Science
  - Nothing new to report.

NICMOS/NCS
- No change

P&S Status
- Calendar/SMS builds
  - 09159
    - Will start the PASS finals runs on Monday.
    - Possible changes for which AMA target to use for the 15 Points-of-Light and mini-alignment.
  - 09166
• Will start building the calendar on Tuesday/Wednesday once we hear about possible changes to the ACS O-Mode Campaign.

- Replans
  ▪ None

- Operations
  ○ FOT
    ▪ OR #18458-0 Clear ACS Event Flag 2 (SBC MAMA) Part 2 @ 149/15:56z
    ▪ OR #18463-0 OBSINT Gyro Bias Update (ROP DF-14) @ 149/17:35z
    ▪ OR #18455-0 Change Block Offset to 15 for SSR Science P/Bs @150/10:00z
    ▪ OR # 18461-1 Restore STIS tasking orders @150/10:10z
    ▪ OR #18428-3 SMOV4 Configure tasking order to collect SI memory dumps - expires 150/10:11z
    ▪ OR #18464-0 ROP NS-12 Reset STIS FSW Error Counter (for STIS MCE-1 reset @150/10:39z) @150/11:58z

  ○ PACOR
    ▪ From May 29 (8am) to May 30 (8am), Pacor-A received six events with fast-track observations.
      ▪ The data was processed and delivered to OPUS without any problems. BPatel.

  ○ OPUS & Archive
    ▪ Finished fast-tracking data for Iteration 1 of the ACS optimization campaign (proposal 11809) and the WFC3 Activation Test (proposal 11454).
      ▪ As expected, a few of the 11454 exposures errored in calibration, so the uncalibrated files were FTPed.
        ▪ Two of these were special engineering exposures without appropriate reference files
        ▪ The third one used a dark reference file with the SUBTYPE keyword value in mixed case, when it should have been all upper case (being investigated).
    ▪ Early this morning files for the ACS/SBC End BEA Check (proposal 11372) were also fast-tracked. TEllis