



RE-START OF SM4 WORK



- THE GOOD NEWS



- *"One final House Call"* : says NASA Administrator Griffin on October 31, 2006: SM4 scheduled for 11 September 2008

- At STScI strengthen instrument teams - increase staffing support now
 - Additional support from JHU and STIS & NICMOS IDTs
- This year our emphasis is on comprehensive testing
 - Develop WFC3 and COS science programs, test the software, test how to schedule.
 - Support GSFC testing in the VEST (SMGTs) at GSFC this summer - will exercise all operating modes of COS & WFC3, and TV hardware testing
- Preparation for Cycle 17
 - Inform astronomers about COS & WFC3, and all C17 capabilities at Workshops, write Handbooks, etc
 - Expect Cycle 17 Proposers to submit in early 2008, TAC in Spring 08, and build long range observing schedule through the Summer 2008, in prep for Autumn deployment.
- SMOV4 development
 - Recently completed Requirements review with Project



13 April 2007

STUC presentation



SM4 STAFFING SUPPORT



- Established Contract with JHU scientists
 - Expected to run through FY09, managed at STScI
 - Currently: Sahnou, Kaiser, Dixon, Golimowski, Martel, and Romelfanger working 40 to 50% of their time on HST instruments, on this side of the street
 - Fully integrated into existing science teams
 - Bringing valuable expertise on the current and the new instruments
- Establishing Contract with UA and GSFC scientists for SMOV4
 - Professor Rodger Thompson & Dr Glenn Schneider will work NICMOS SMOV
 - Developing a detailed statement of work, run through FY09, managed at STScI
 - Integrated into the existing NICMOS science team, following 14 Feb meeting
 - Bruce Woodgate and Ted Gull from STIS involved
- Staffing up in the Data Analysts area
 - In anticipation of WFC3 Thermal-Vacuum support
 - Subsequent data analysis through SMOV4



STS-125 Astronaut Crew



SERVICING MISSION 4 OBSERVATORY VERIFICATION -FROM CARL BIAGETTI



- SMOV4 Team Reassembled
 - Instrument scientists/engineers from STScI/GSFC
 - STScI Planning & Scheduling, Operations specialists
 - COS/WFC3 teams and NICMOS/STIS IDT members
 - Team Leads - Biagetti/STScI; Burley/GSFC



SMOV4 Requirements Review on 21 March at GSFC

- requirements for OTA, spacecraft sub-systems, and all science instruments, COS, WFC3, NICMOS, STIS, ACS*, FGS

Plan Outline

- 2007 Apr - Sep: SMOV detailed planning: activities, order
- 2007 Oct: SMOV Project Review
- 2007 - 2008: Support to SMOWG; SMGTs, Sims, JISs, as necessary; development, processing of Phase 2s and scheduling
- 2008 Sep: SMOV Start



SM4 DESIGN REFERENCE MISSION



- Building a “month in the life” of Hubble, a post SM4 DRM
 - will consist of real-life observing program using all Cycle 17 instruments (WFC3, COS, STIS, ACS, NICMOS and FGS) in 3-Gyro mode.
 - Done earlier to prepare for 2-gyro mode, where it helped the implementation.
 - Work has started now, use Astronomer Proposal Tools built for WFC3 and COS, plus all existing documentation to build Phase 2 proposals with these new instruments.
 - “Observations” with new instruments will be combined with calibration and science observations of existing instruments
- Develop a month-long schedule to see how instruments interact
 - Make it as realistic as possible, include SNAPS, Parallels
 - How do the instruments interact? Problems?
 - What can we do to make them more efficient
 - Fully test all of our new ground system software





CYCLE 17 SCHEDULE – FROM NEILL REID



SM4 is scheduled for September 2008

- SM4 complete by late September 2008
- HST available for observations ~November 2008 (WFC3 ~Dec 2008?)

Cycle 16/17 boundary will be set at SM4

- Avoid multiple instrument suites during a cycle
- Cycle 16 is a ~15 month cycle

Possible Cycle 17 schedule

- CP17 release – 15 December 2007
- Proposal deadline – 25 March 2008
- HST TAC meets – late May 2008
- Phase II reviews – July/August 2008 (pre-SM4)
- Cycle 17 ends December 31 2009

Revised schedule

- Shorter lead time between allocation and observations
- Calendar balances (internal STScI) workload for proposal implementation & SM4/SMOV

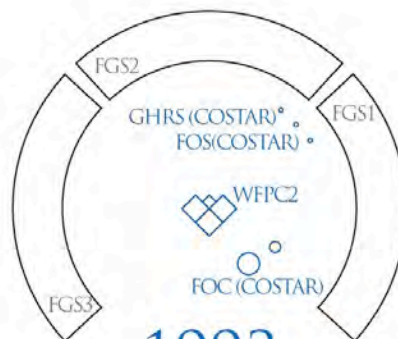




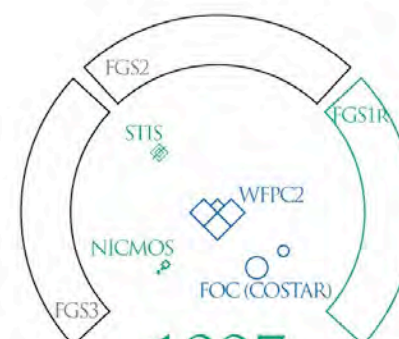
HUBBLE'S FOCAL PLANE OVER THE YEARS



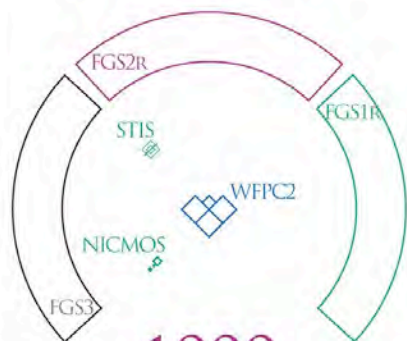
1990
Deployment



1993
SM1



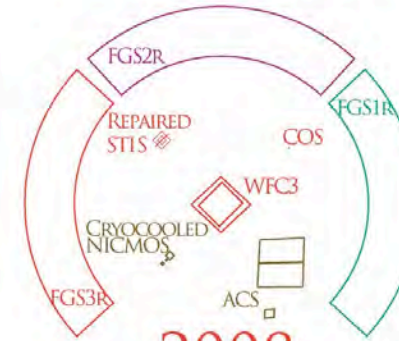
1997
SM2



1999
SM3A



2002
SM3B



2008
SM4