STUC
October 16-17, 2014

Science
Leadership
HST/JWST
Budgets
Hubble finds potential Kuiper Belt object for Pluto-bound New Horizons Mission
courtesy Amy A Simon-Miller,
Clear Skies & Water Vapor on Exo-Neptune
HST Proposal Pressure

In Cycle 22 Hubble received the second highest number of proposals in its history.
Submitted Cycle 22 Programs across the Globe
NASA Hubble Senior Review
April 2014, concluded:

1. Hubble is operating at near the highest level of performance and scientific productivity in its history.

2. Hubble operations have become very cost effective.


4. ESA held their own Hubble Senior Review, 13th October, 2014. - went well
H. Rept. 113-448 - COMMERCE, JUSTICE, SCIENCE, AND RELATED AGENCIES APPROPRIATIONS BILL, 2015

Astrophysics.--The recommendation for Astrophysics restores the $5,000,000 unallocated reduction proposed for the Hubble Space Telescope (HST). NASA shall accommodate the remaining proposed reduction to HST through the use of carryover balances in fiscal year 2015 and fully restore these funds in future years' requests...

S. Rept. 113-181 - DEPARTMENTS OF COMMERCE AND JUSTICE, AND SCIENCE, AND RELATED AGENCIES APPROPRIATIONS BILL, 2015

Astrophysics.--Within funds provided to advance scientific knowledge of the origins of the universe, the Committee provides $98,600,000 for the Hubble Space Telescope [HST], $87,000,000 for the Stratospheric Observatory for Infrared Astronomy [SOFIA], and $38,000,000 for the Balloon Project.

The Committee disagrees with NASA's position that a change in HST's grants administration offers any significant savings over fiscal year 2014 operations. In the history of NASA, HST has proven to be the agency's premier scientific observatory. Therefore, HST's operations and grant awards, particularly in an era of fiscal constraint, should not be used as a budget gimmick to achieve artificial savings. In order to plan for the remaining life of HST and provide for an initial overlap with the James Webb Space Telescope through 2020, NASA is directed to undertake a study of operations and associated budget for fiscal years 2015 through 2020. This study should consider the full range of science capabilities, operational staffing, and risk reduction to assure a scientifically productive HST program....
Hubble 2020: Building on 25yrs of Discovery

STScl, Baltimore
April 20-23, 2015
Frontier Field Goals
Observing Program
year 3: Abell S1063 + Abell 370
Early Science Highlights

Jennifer Lotz, STScI
with Matt Mountain and the Frontier Fields Team
Frontier Fields driving a lot of calibration improvements

ACS Self-cal (Jay Anderson, Sara Ogaz)

Default calacs (no selfcal)  calacs after selfcal

WFC3/IR Time-variable sky
(Bryan Hilbert, Massimo Robberto)
HST: 414 individual pointings

AFTA/WFIRST: 2 individual pointings

the WFIRST/AFTA way
Roeland van der Marel appointed STScI WFIRST Mission lead
JWST: On Schedule... and on Budget.
Summary...

- FY15 PBR proposed a cut of nearly $186M for NASA, 96% of this coming from SMD.

- Budget risks remain for HST and HST/JWST Education in OPO.

- Where will the JWST wedge go, WFIRST funding?