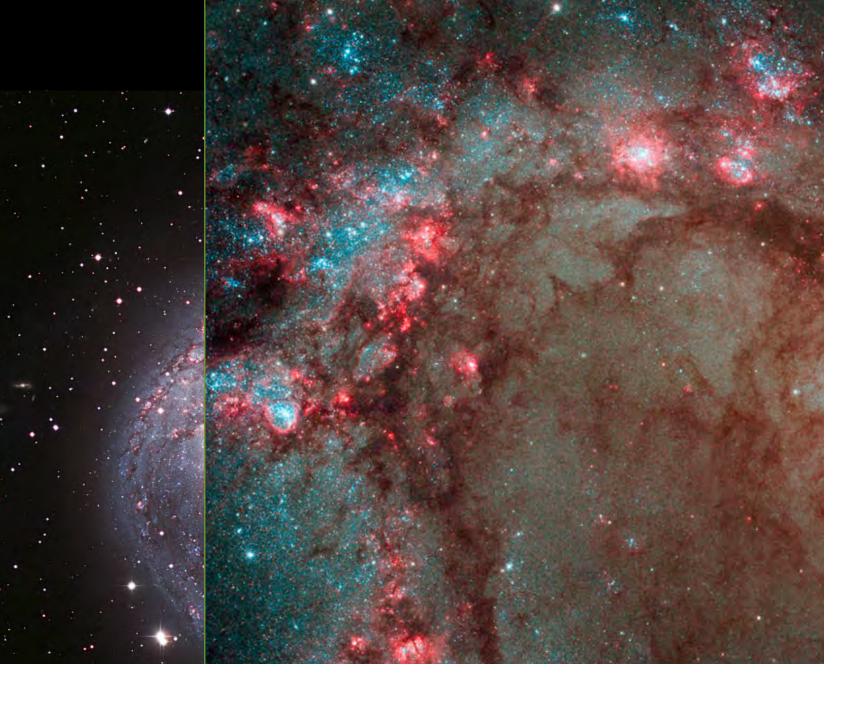
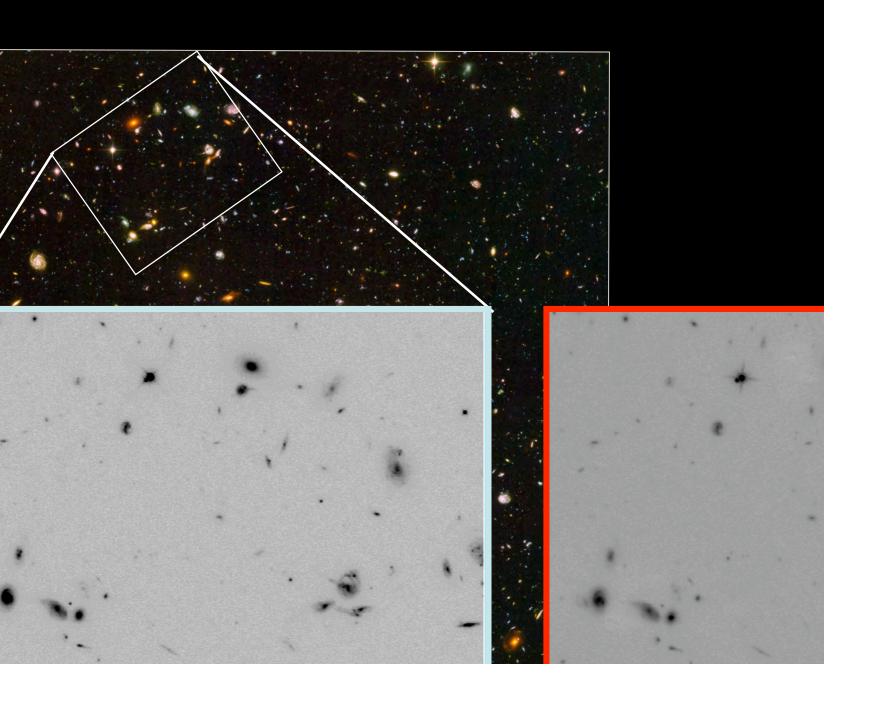
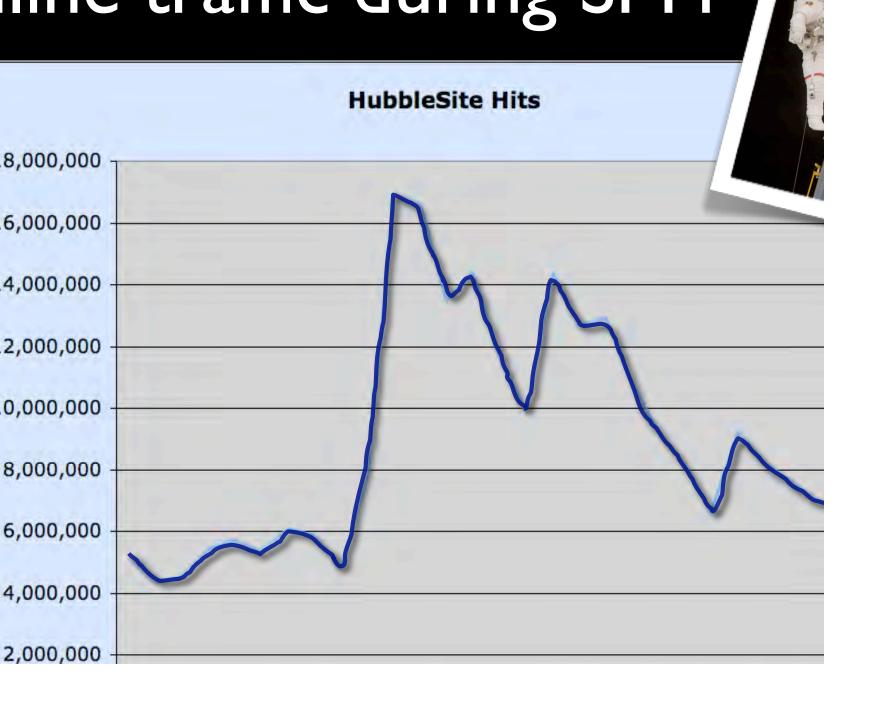
STUC Nov 2009







Rel 97 oron → z ~ 8 ga Bouwens e Galaxie McLure et Galaxy f the reioniz Yan et al, WFC3/IR F105W + F125W + F160W ACS F814W + F850LP

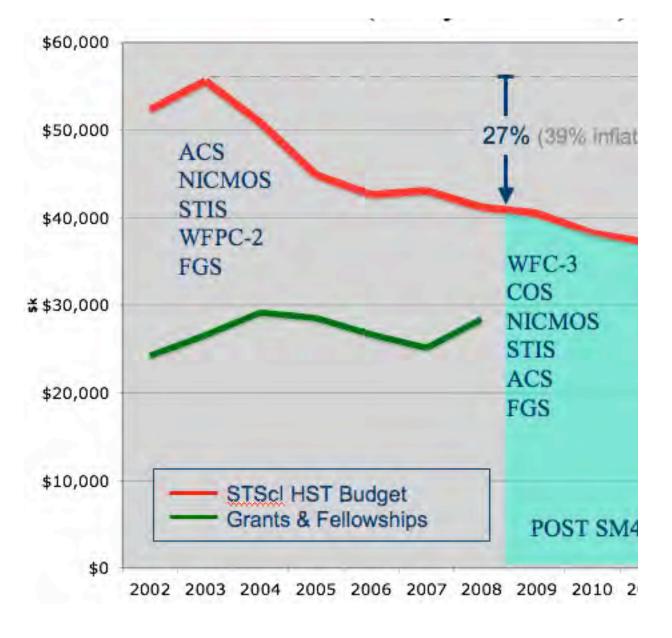




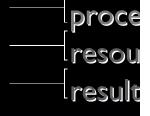


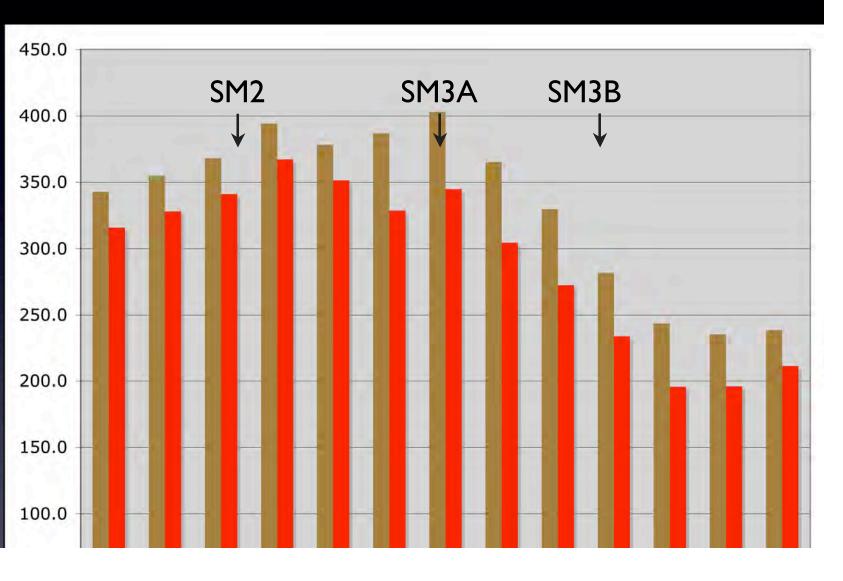
et TScI

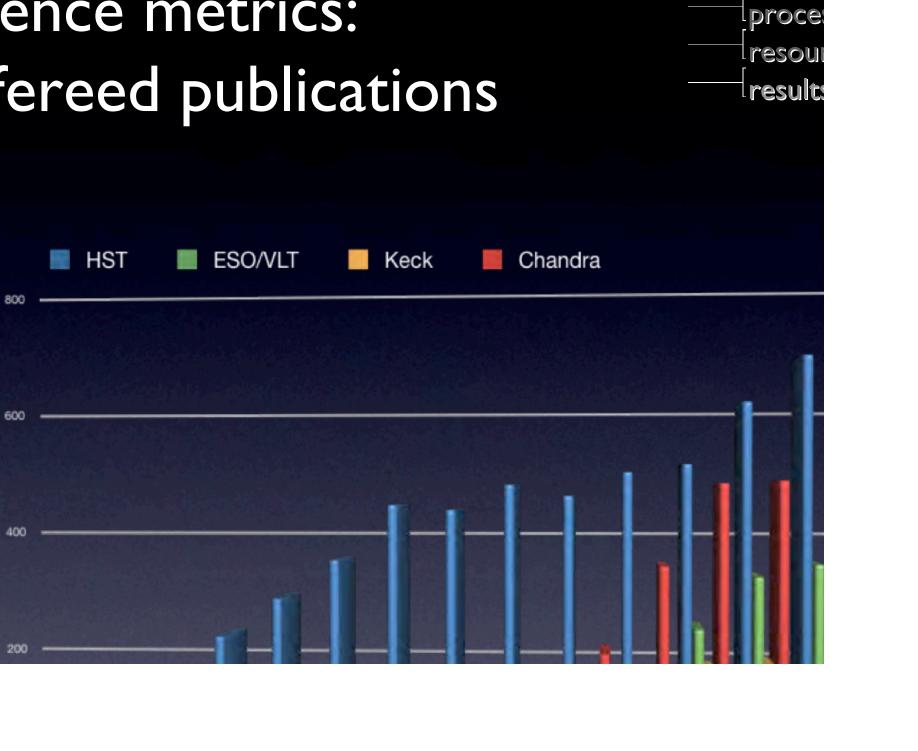
3 I 3CI duaget evolution



iciency improvements

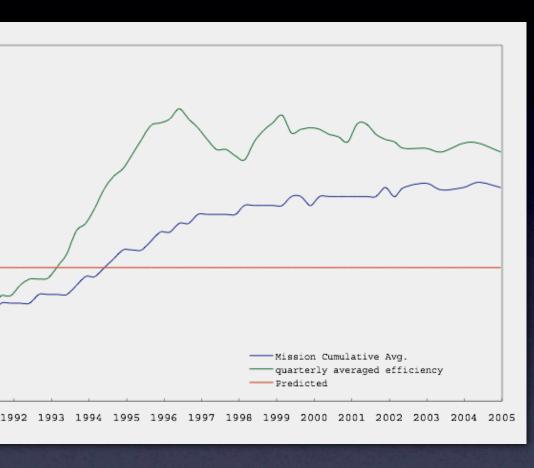




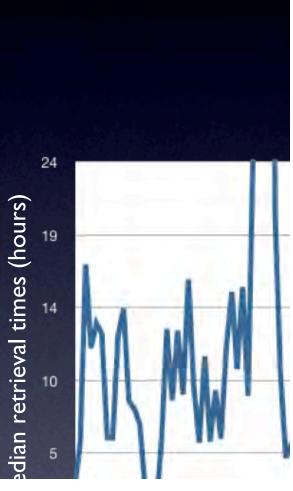


iciency & improvements





spacecraft on target efficiency



cess improvements

Iproces Iresoul Iresults

Proposal Preparation and submission:

proved user tools

proved documentation

budget for observing proposal until

pted

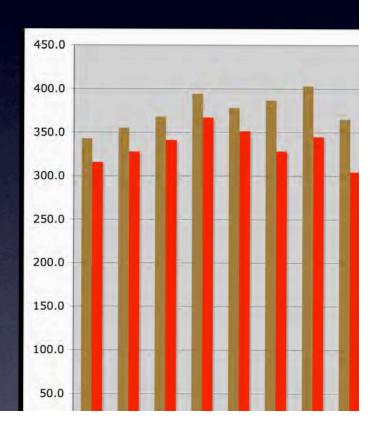
Processing:

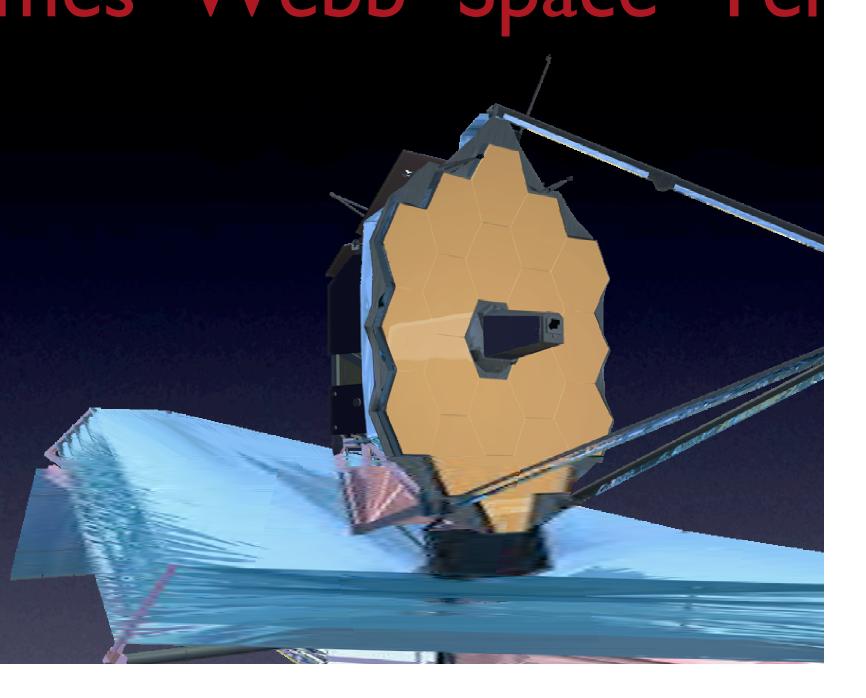
ed user tools (fewer problem ions)

lined processing & automation ed conflict/duplication rules & tools ed change request processing

3 & Scheduling:

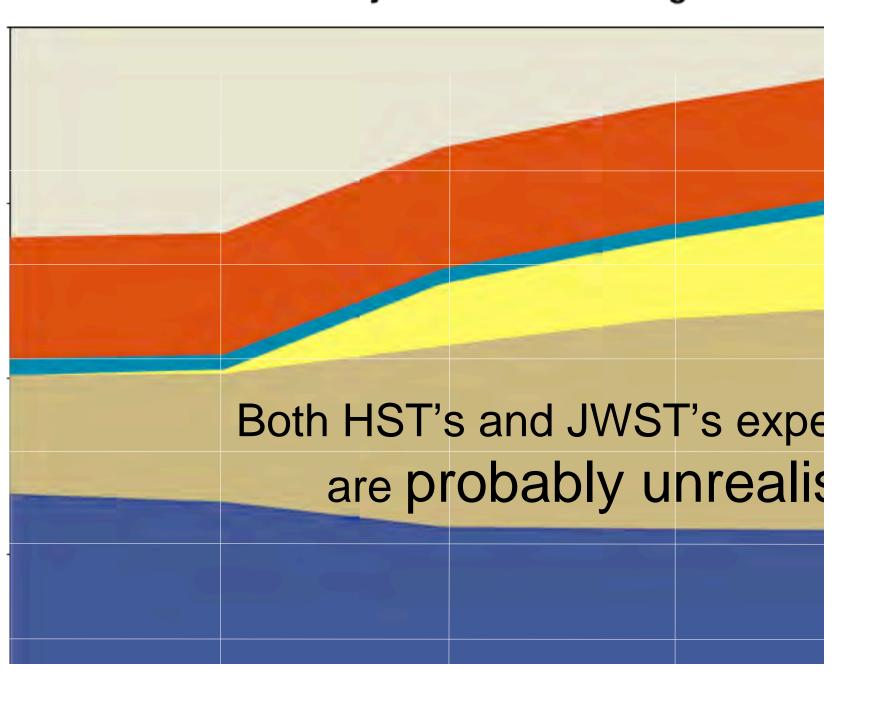
ed operational tools & automation





e Telescope

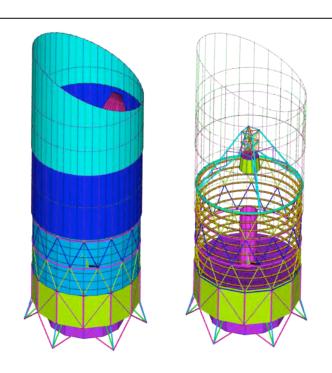




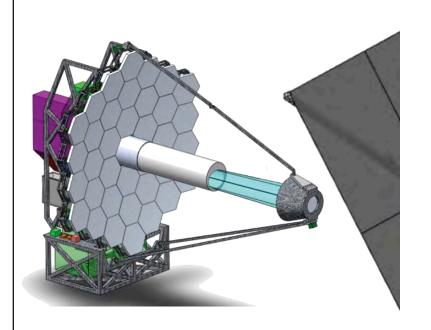
resident's FY 2010 Budget Request Detail

ludget Authority,	\$	in	millio	ľ
y Appropriation A	CC	ou	nt	
By Theme				

By Theme	FY 2008 Actuals	FY 2009** Enacted	FY 2010	FY 2011	FY	
strophysics	1,395.6	1,281.2	1,120.9	1,074.1	1,	
strophysics Research	102.2	<u>135.0</u>	<u>151.9</u>	<u>160.0</u>		
Astrophysics Research and Analysis	56.9	60.0	61.1	62.5		
Balloon Project	24.0	24.6	26.7	28.8		
Other Missions and Data Analysis	21.3	50.4	64.1	68.6		
Cosmic Origins	<u>870.1</u>	<u>819.2</u>	<u>667.2</u>	<u>598.9</u>		
Hubble Space Telescope (HST)	244.9	207.7	112.6	101.6		
James Webb Space Telescope (JWST)	510.3	446.9	441.4	385.1		
Stratospheric Observatory for nfrared	63.8	72.8	72.8	74.0		

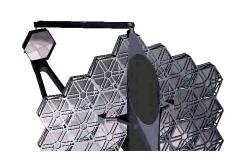


8-m Monolithic Primary shown with on-axis SM configuration)



9.2-m Segme 36 1.3-m hexago





16.8-m Segmented Telesco

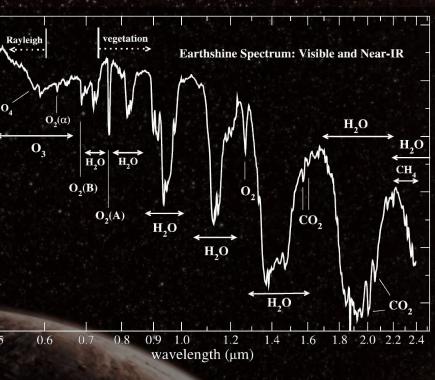
36 2.4-m hexagonal mirror segments



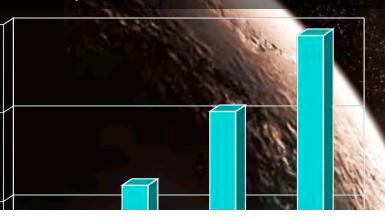
iffraction limited @ 500 nm
esigned for SE-L2 environment
on-cryogenic OTA at ~280° K
nermal control system stabilizes PM
mperature to ± 0.1° K

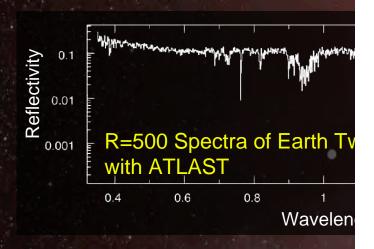
TA provides two simultaneously vailable foci - narrow FOV assegrain (2 bounce) for Exoplanet UV instruments and wide FOV MA channel for Vis/NIR Gigapixel nager and MOS

acianad to parmit (but not mouth) an



e signature of life is encoded in the spectrum of the Earth







An Earth-twin at a distance of 2 faintest galaxy in Hubble's A large space telescope is

topmany astrophysics/resea

Star formation & evolution; resolved stellar populations Galaxy formation & evolution; supermassive black hole evolution Formation of structure in the universe; dark matter kinematics Origin and nature of



A "life finder" tele be a multi-billion support by a bro