



MAST
Users
Group
Meeting

December
15-16,
2016

Introduction and Highlights

Karen Levay
Rick White

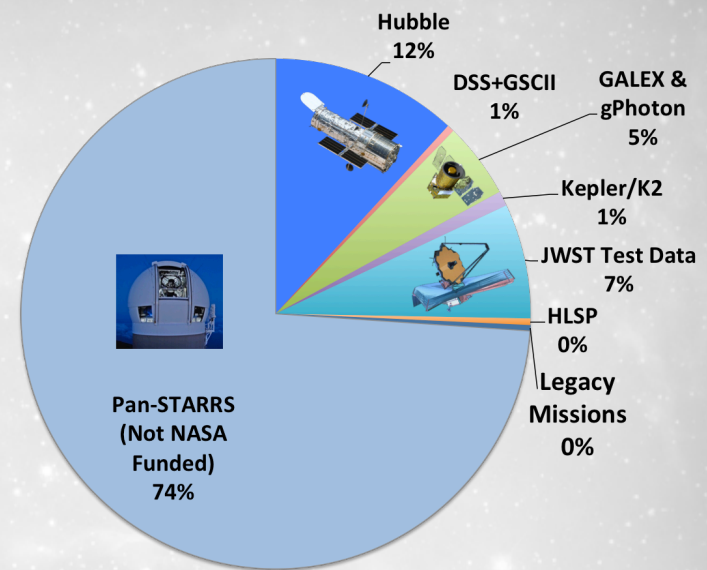
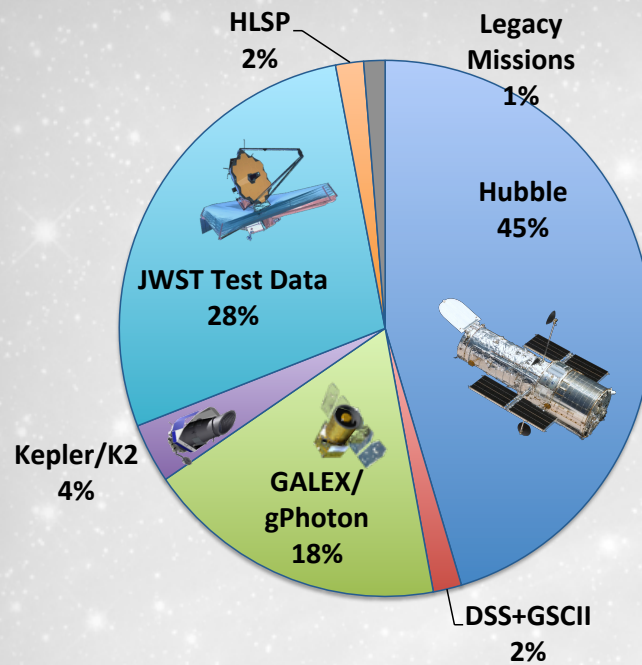
ASB
Operations and Engineering Division



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MAST Data



MAST Holdings

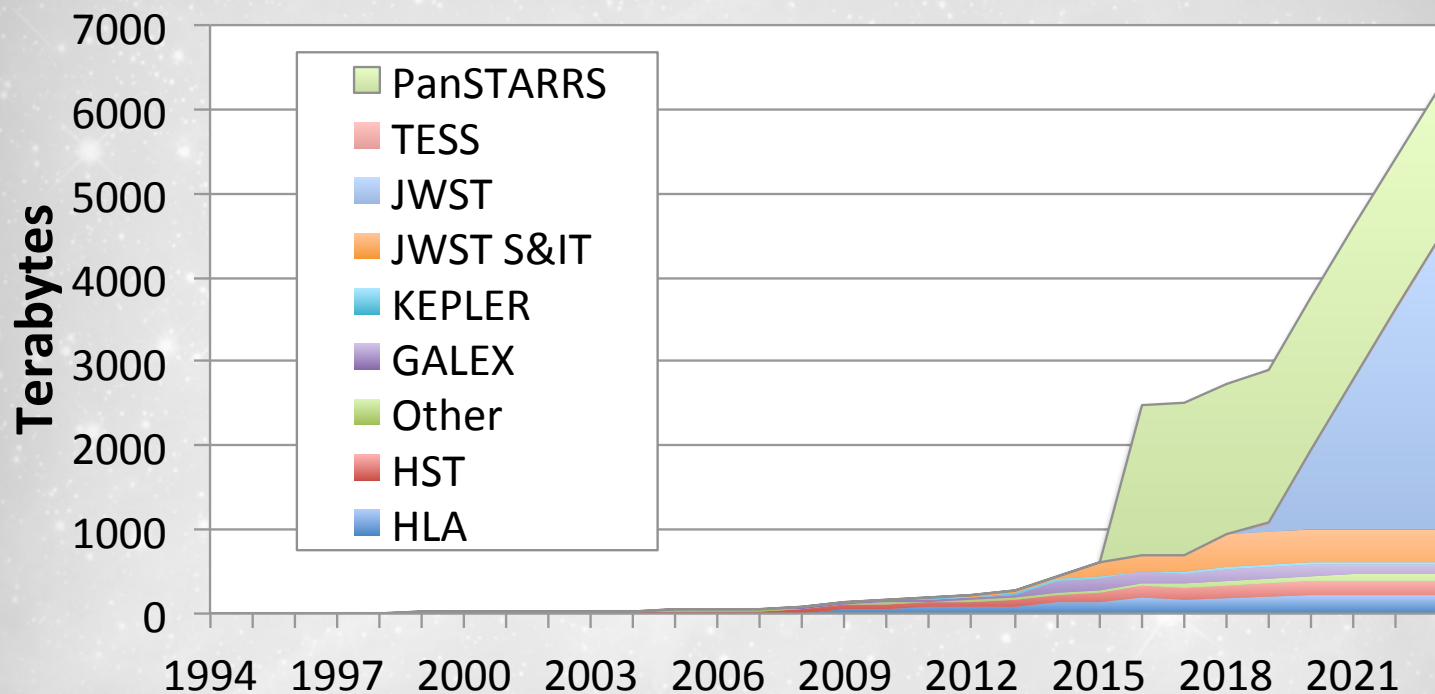
- 21 missions/projects (current and planned)
- 705 TB of data (Dec 1, 2016)
- After addition of Pan-STARRS the archives at STScI will be > 2.5 PB



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Projected Archive Growth



NOTE: PanSTARRS is science funded.

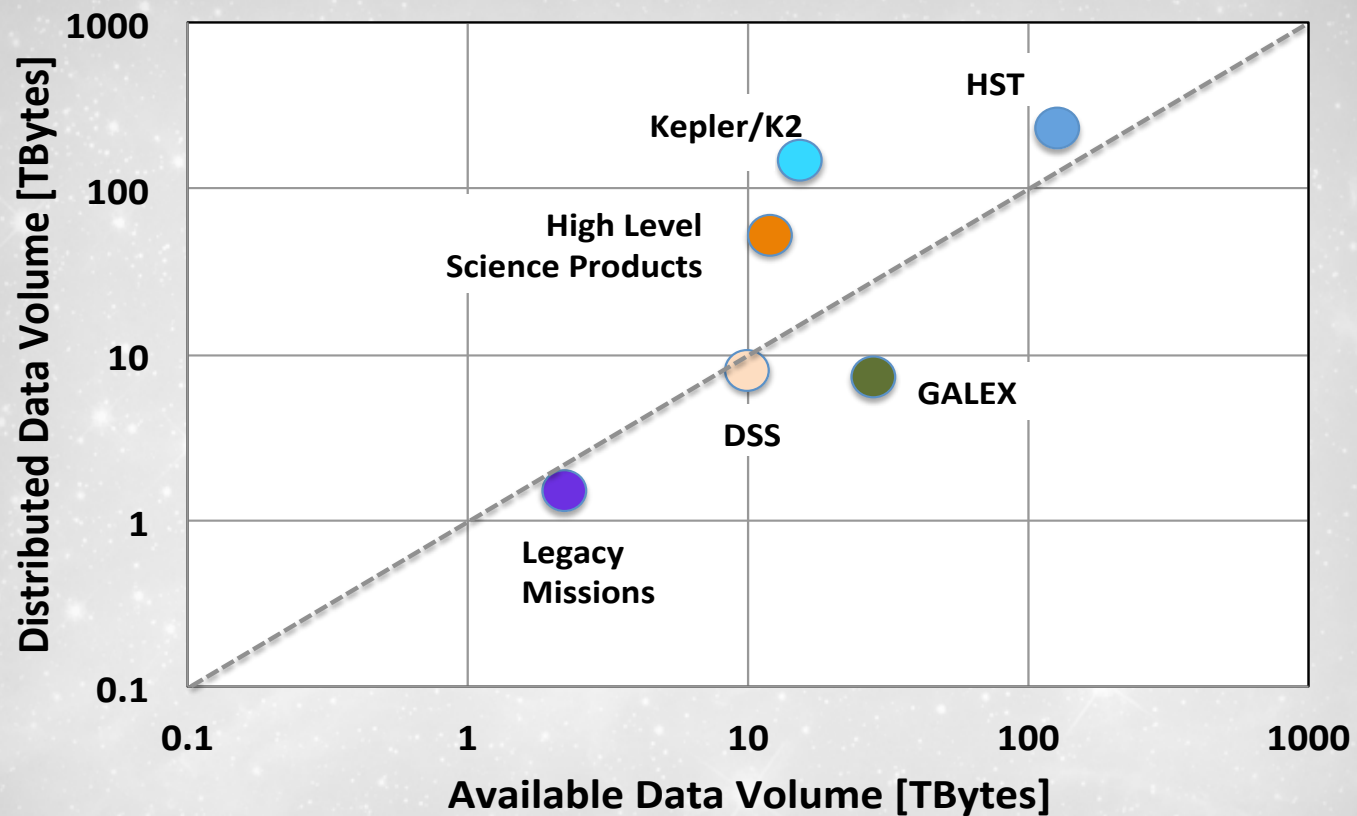


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Distribution vs Holdings



Volumes as of Dec 1, 2016

Downloads from Jan 1 2015 – Dec 2016

Downloads do not include gPhoton or any
catalog searches



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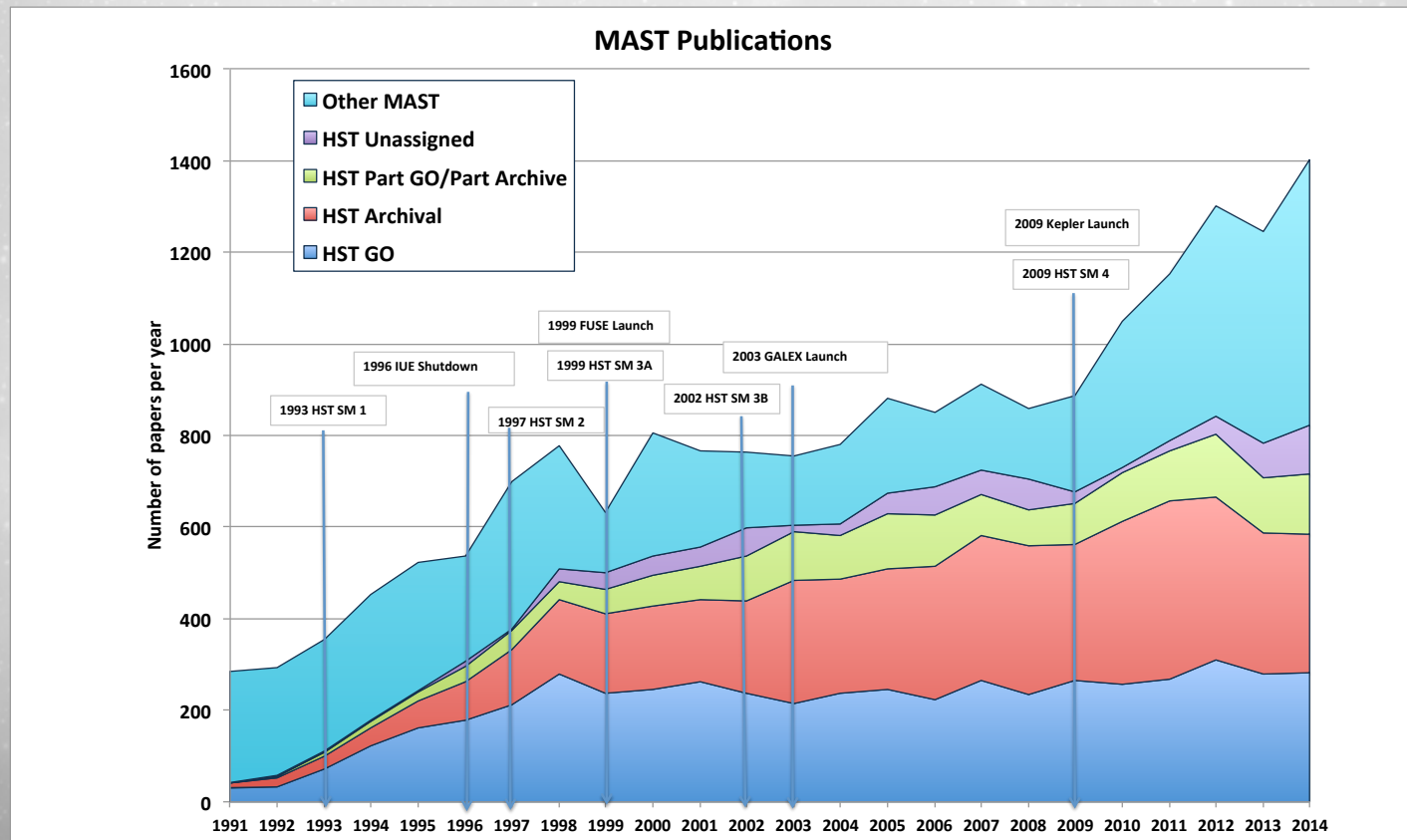
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Publications

- MAST continues to identify papers using data for most of the MAST missions. Identification of from 2015 and 2016 papers is not complete.





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Archive Funding Sources

- Missions
 - HST
 - JWST
 - Kepler
 - TESS
 - WFIRST
- MAST– NASA archive funding
 - Includes VO component
 - Includes HLA
 - Includes HLSP ingest
 - Funding moving to HST contract Jan 1 2017 but still a separate funding stream
- PanSTARRS – DDRF (science)
 - Moore Foundation to fund hardware refresh after DR1

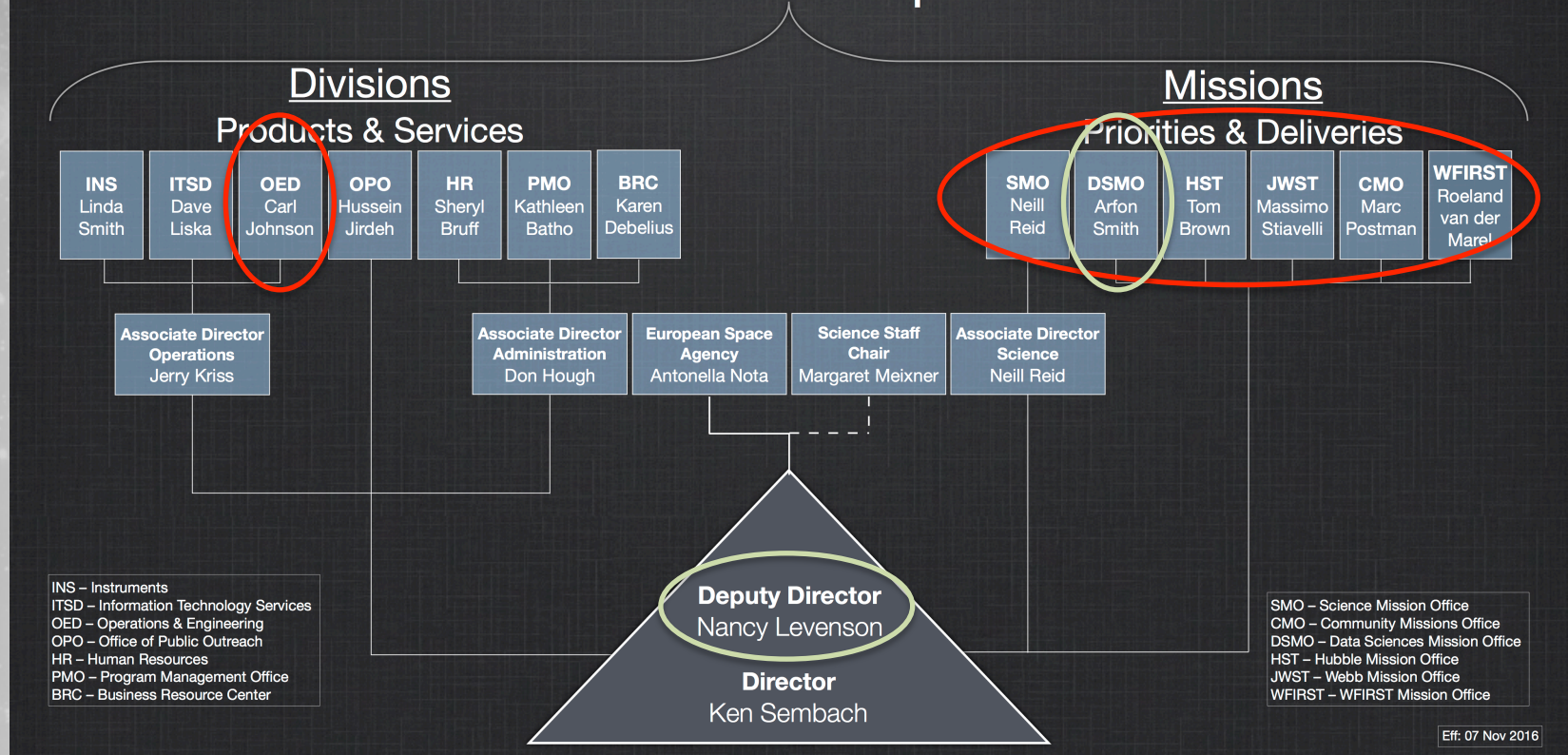




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Space Telescope Science Institute Senior Leadership Team



- Archive team is mostly part of the Operations and Engineering Division (OED) (Alessandra Aloisi Deputy Division Head in charge of Archives)
- Team works closely with INS and IT divisions
- Direction, priorities and requirements from the mission offices (HST, JWST, CMO, WFIRST, SMO and DSMO)



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OPERATIONS & ENGINEERING DIVISION



OED DIVISION OFFICE 1.1.01.53.00.00		BRC Business Resources 1.1.01.00.97.01	14
HEAD: Carl Johnson		Linda Kaiser	
DEPUTIES: Alessandra Aloisi, Tony Krueger		Brian Fincham	
Rick White	Dave Taylor	Susan M...	
Mark Kyprianou	Anastasia Alexov		

APSB ²⁴ Astronomical Planning & Support Branch 1.1.01.53.10.10	OPB ¹¹ Observation Planning Branch 1.1.01.53.10.20	CMD ²¹ Commanding Branch 1.1.01.53.20.10	FOB ³⁸ Flight Operations Branch 1.1.01.53.20.50	PRDB ⁷ Project Reference Database Branch 1.1.01.53.20.20	SSB ²⁸ Science Software Branch 1.1.01.53.30.10	DPAS ¹⁴ Data Processing & Archive Services Branch 1.1.01.53.30.20	ASB ²⁵ Archive Sciences Branch 1.1.01.53.30.40
Mark Giuliano	Denise Taylor	Elizabeth Barker	Steve Vaclavik	Andy Groebner	Warren Hack, Acting	Faith Abney	Karen Leavy
Maria Bertch Bob Boyer Jeff Bucklew Tom Comeau Tom Comer ° Gary Curtis ° Ron Downes ° Nazma Ferdous Alex Framarini Josh Goldberg Rob Hawkins Kate Henshaw Ernie Morse Andrew Myers Lauretta Nagel Daniel Nemergut James Paraniham Karla Peterson Stephen Prescott Reiko Rager Joel Richon Christine Ritchie Bruce Seely	Amber Armstrong Weston Eck Bill Januszewski Crystal Mannfolk Shelly Meyett Beth Perriello Blair Porterfield Tony Roman Tricia Royle ° Alison Vick °	Marsha Allen Stephen Barrow Marlon Caputo Kerry Clark Ilana Dashevsky Dennis Garland Nikita Gokhale Bryan Hendersen Bob Koehler Andrew Lezcano Lily Liu Catherine Riggs Mike Robinson Perry Rose Jeff Stys Mike Uzzo Katya Vydra Alan Welty Dean Zak	Ben Akinpetide * ^ Harry Anderson Amanda Arvai John Bacinski Wayne Baggett Bruce Barringer Aaron Bush Michael Cabrera Bob Crew Audrey DiFelice Matt Dillman Michelle Elie Patrick Falini ^ Erin Fontanella Carl Hansen Scarlin Hernandez Clark Herrington Dave Hickey Robert Hitcho Tim Johnson Daniel Knutsen Aurora Labador Robert Laverghetta Miranda Link Chris Long Kari Marzola John Nidhiry Brian O'Shaughnessy Andrew Pedder Irma Quispe-Neira Ben Serano *** Christopher Thompson Yasir Tufail ^ Tom Wheeler Rai Wu * ^ Ethan Yerger Rob Zepp *	Mike Bielefeld Suzy Crabb Odessa Etienne * Shaw-Hong Kao Charlie Loomis * Francesca Spano	Larry Bradley Howard Bushouse Ivo Busko Mihai Cara James Davies Nadia Dencheva Jonathan Eisenhamer Justin Ely Perry Greenfield Dave Grumm Phil Hodge Joe Hunkeler Robert Jedrzejewski Craig Jones Vicki Laidler Pey Lian Lim Christian Mesh Todd Miller Jane Morrison ** James Noss Sara Ogaz Timothy Pickering Tom Robitaille ** Bernie Simon Christine Slocum Chris Sontag Megan Sosey	Sara Anderson Thomas Bair Pat Brown Matthew Burger Tracy Ellis Forrest Hamilton * ° Brendan Hurst Katie Kaleida Herb Kennedy Debbie Kenny Michael Ridgaway John Scott Hien Tran	Clara Brasseur Tom Donaldson Theresa Dower Michael Dulude Chinwe Edeani Scott Fleming * Jonathan Hargis Tim Kimball Anton Koekemoer Steve Lubow Amanda Marrione Jacob Matuskey Brian McLean Christopher Moriarty Oliver Oberdorf Joshua Peek Carlita Phillip Lee Quick Tony Rogers Bernie Shiao Randy Thompson * Shui-Ay Tseng * Geoff Wallace * Sarah Weissman
	STSB ¹⁴ Short Term Scheduling Branch 1.1.01.53.10.30 Scott Stallcup John Boia Mike Boyer Clif Darby Mary Galloway ** John Kucel John Lecourt Bev Owens * Rick Perrine Geraldine Preval Peter Privalov * Greig Richmond Bill Rimpl Tyler Schmitz	SEB ¹⁵ System Engineering Branch 1.1.01.53.20.30 Frank Rock Humberto Calvani George Chapman Bin Chen Jocelyn Ferrara Irv Gutman * Wayne Kinzel Trey Kulp Patrick Lenhart *** Matthew Lewis Carey Myers Maria Nieto-Santisteban Rafael Ramos Merle Reinhart Daryl Swade		ITEB ¹² Integration & Test Engineering Branch 1.1.01.53.20.40 Paul Lee Ariel Bowers Bill DePriest Bruce Garrett Heather Gunning Chris Hanley May Lam Courtney McManus Debbie Morrison Hillary Regan ** Steve Slowinski Jeremy Zee		DSB ²³ Data Systems Branch 1.1.01.53.30.30 David Wolfe Hunter Brown Andrew Cortese Jesse Doggett Kim DuPrie Lisa Gardner Michael Gough Chris Heller-Boyer David Kauffman Talya Kelley Rich Kidwell Donald McLean Alex Padgett Chris Rahmani * Fred Romelfanger Mary Romelfanger Melissa Russ John Schultz ° Lisa Sherbert Richard Spencer Mike Swam Rob Swaters Linda Thompson	
PLANNING & SCHEDULING 1.1.01.53.00.00 Chief Engineer: Rob Douglas		SYSTEM ENGINEERING & INTEGRATION 1.1.01.53.00.00 Chief Engineer: Mark Abernathy Daniel Whiteside ***			DATA MANAGEMENT 1.1.01.53.00.00 Chief Engineer: Viviana Acosta		

* CSRA // ** Contractor // *** Intern // ° Remote Employee // ^ Located at Goddard

November 28, 2016 Staff Size: 254



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Archive Organization

Operations & Engineering Division

Carl Johnson

Alessandra Aloisi

Tony Krueger

Rick White

Chief Engineer (vacant)

Mark Kyprianou/

Anastasia Alexov

(JWST DMS Leads)

Science Software Branch (SSB)

Warren Hack – 28 members + 2 openings

Data analysis tools such as AstroLib, PyRAF & STSDAS and calibration software included in the JWST and HST calibration pipelines

Data Systems Branch (DSB)

(David Wolfe - 23 members

Development, integration and testing of HST/JWST/Kepler processing pipelines, archive, distribution processes

Data Processing and Operations Branch (DPAS)

Faith Abney - 14 members Operations for HST/JWST/Kepler data processing pipelines and distribution

Archive Sciences Branch (ASB)

Karen Levay - 25 members + 4 openings

“MAST” archiving; Distribution; Interface development for all Missions/Datasets; Bibliography support; VO work; HLSP; Value added Products

HLA Project
Lee Quick
Rick White

HSC Project
Brad Whitmore

The HLA is a cross-branch/divisional project. The HSC is run from the HST mission office



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