



# **Cycle-9 Program Selection Exploration Science, Large & Snapshot Proposals**

**25 September 2012**



## Cycle-9 Overview



- **Proposal selection done in two parts**
  - > 100-hour programs selected in September, < 100-hour in December

- **Hours Available**

Program Type	Hours
Exploration Science ( > 500 hrs )	5,000 - 7,000
Large GO + Snapshot ( > 100 hrs )	1,500 - 2,000
Small GO ( < 100 hrs )	500 - 1,000

- **Review #1**

- Proposal Deadline: August 3
- Panel Review: September 11 – 14      TAC: September 19 – 20

- **Review #2**

- Proposal Deadline                      October 26
- Panel Review                              December 4 – 7
- Results Announced                      December 14



## Exploration Science & Large GO/Snapshot

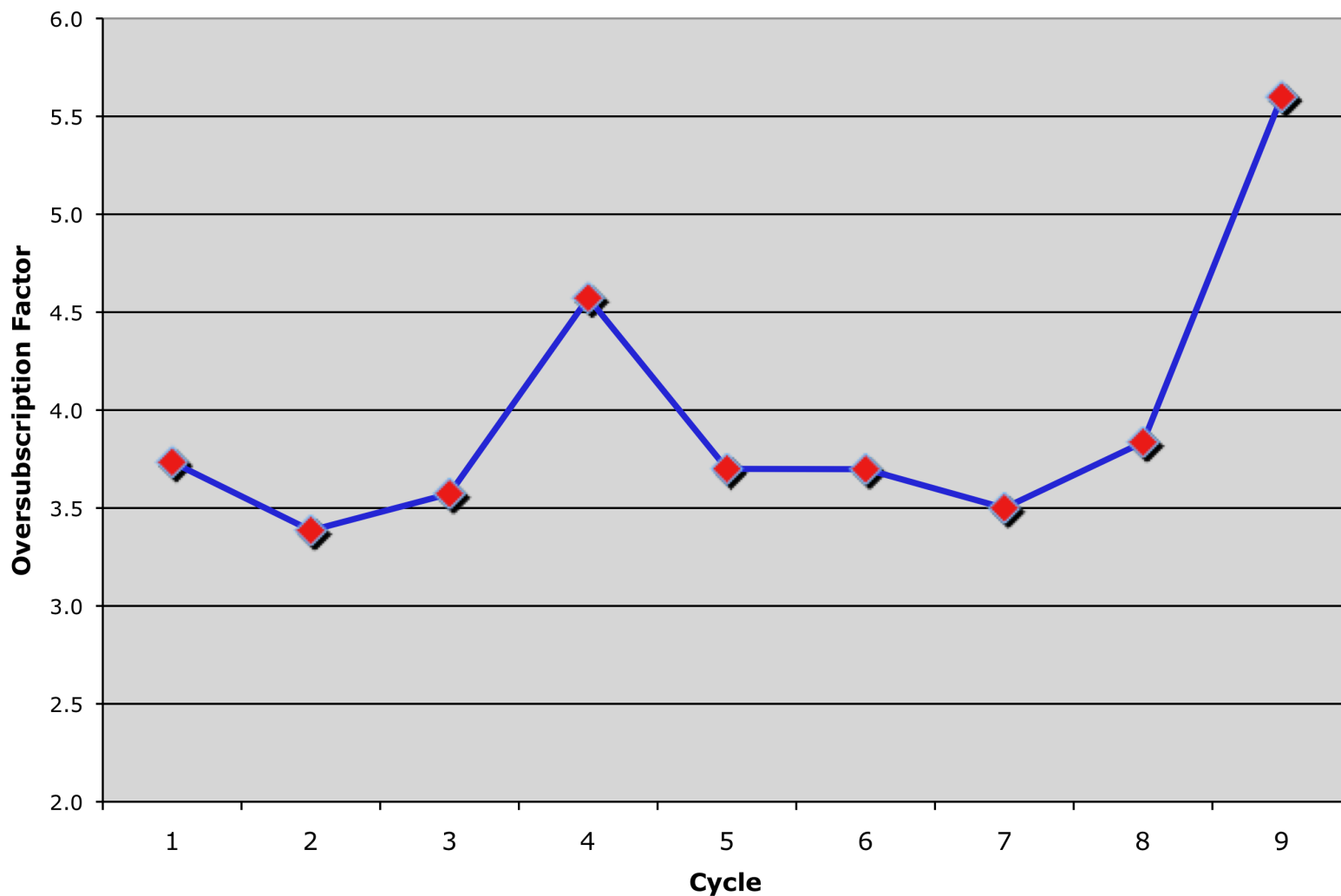


- **61 proposals received – 43,652 hrs requested**  
*(Cycle-8: 167 proposals – 27,949 hours, all proposal types)*  
*Oversubscription=5.6, same as Legacy, highest ever for GO Cycle*
- **Exploration Science – 29 proposals, 36,477 hours**  
*– 6,000 hrs available → oversubscription = 6.1*
- **Large GO + Snapshot – 32 proposals, 7,176 hours**  
*– 1,750 hrs available → oversubscription = 4.1*  
*– 30 Large GO + 2 Snapshot proposals*
- **5 proposals request joint HST time**

**TAC recommended the balance between Exploration Science and Large/Snapshot**



# Oversubscription (hours)





# **Cycle-9**

## **The Selected Program**

### **Exploration Science & Large Programs**



## Cycle-9 Results



- **14 programs awarded 7981.3 hours**
  - ***9 Exploration Science Programs: 6891.0 hours***
  - ***5 Large Programs: 1090.3 hours***
  - ***No Snapshot programs were selected***  
*(only 2 snapshot proposals were submitted)*
- **2 of the 14 programs are foreign led**  
*(4 were submitted)*



# Exploration Science



- **9 Exploration Science Programs – 6891.0 hours**
  - 4725.5 hours Galactic/Planetary, 2615.5 hour extragalactic

PID	PI / Institution	Science Category	Title	Cols	Hours
90002	Wendy Freedman <i>Carnegie Observatories</i>	stellar populations	The Carnegie RR Lyrae Program	23	779.0
90015	Michael Cushing <i>University of Toledo</i>	brown dwarfs	Brown Dwarf and Exoplanet Weather Forecasts: Are Y Dwarfs Partly Cloudy?	10	695.0
90032	Heather Knutson <i>Caltech</i>	exoplanets	The Eccentric Exoplanets: A Survey of Atmospheric Heating and Variability	10	508.0
90063	Daniel Apai <i>University of Arizona</i>	brown dwarfs	Extrasolar Storms: The Physics and Chemistry of Evolving Cloud Structures in Brown Dwarf Atmospheres	11	1143.9
90071	Adam Kraus <i>Smithsonian Astrophysical Obs.</i>	star formation	A Proper-Motion Census of Star-Forming Regions in the Solar Neighborhood	6	559.2
90092	Jean-Michel Desert <i>Caltech</i>	exoplanets	New Frontiers for Comparative Exoplanetology In the Era of Kepler	6	590.4
90009	Marusa Bradac <i>UC Davis</i>	high-redshift galaxies	Spitzer UltRaFaint SURvey (SURF'S Up): Cluster Lensing & Spitzer Extreme Imaging Reaching Out to $z \sim 7$	17	564.1
90042	Peter Capak <i>Spitzer Science Center-IPAC</i>	high-redshift galaxies	SPLASH: Spitzer Large Area Survey with Hyper-Suprime-Cam	45	1251.4
90045	Gordon Richards <i>Drexel University</i>	AGN	SpIES: The Spitzer-IRAC Equatorial Survey	35	800.0



# Large General Observer



- **5 Large Programs – 1090.3 hours**
  - 441.5 hours *Galactic/Planetary*, 648.8 hours *extragalactic*

PID	PI / Institution	Science Category	Title	Cols	Hours
90007	J. Davy Kirkpatrick <i>IPAC</i>	brown dwarfs	Spitzer Trigonometric Parallaxes of the Solar Neighborhood's Coldest Brown Dwarfs	8	141.5
90072	Michael Gillon <i>Liege University</i>	exoplanets	Understanding Other Worlds with Spitzer: From Hot Jupiters to Super-Earths	22	300.0
90031	Ori Fox <i>UC Berkeley</i>	ULIRGS	A Search for the Missing Supernovae in Ultraluminous, Star Forming Galaxies	5	300.0
90038	Malcolm Bremer <i>University of Bristol</i>	high-redshift clusters	Identifying the most distant clusters in the XXL-NORTH survey	15	124.8
90062	Daniel Perley <i>Caltech</i>	high-redshift galaxies	Spitzer Observations of GRB Hosts: A Legacy Approach	8	224.0





# Joint Spitzer-HST



- **1 Large GO and 2 Exploration Science programs were also awarded HST time as part of their proposal**

PID	PI / Institution	Science Category	Title	HST Orbits	Spitzer Hours
90007	J. Davy Kirkpatrick <i>IPAC</i>	brown dwarfs	Spitzer Trigonometric Parallaxes of the Solar Neighborhood's Coldest Brown Dwarfs	15	141.5
90009	Marusa Bradac <i>UC Davis</i>	high-redshift galaxies	Spitzer UltraFaint Survey (SURF'S Up): Cluster Lensing & Spitzer Extreme Imaging Reaching Out to $z > \sim 7$	13	564.1
90063	Daniel Apai <i>University of Arizona</i>	brown dwarfs	Extrasolar Storms: The Physics and Chemistry of Evolving Cloud Structures in Brown Dwarf Atmospheres	28	1143.9



## Science Categories



Science Category	Hours Awarded
<b><i>Galactic/Planetary Science</i></b>	
Brown Dwarfs	1980.4
Exoplanets	1398.4
Star Formation	559.2
Stellar Populations	779.0
<b><i>Extragalactic Science</i></b>	
AGN	800.0
High-redshift Galaxies & Clusters	2164.3
ULIRGS	300.0