



## Cycle-5 Proposal Submission Statistics



- **Overview**

- *Cycle-5 is estimated to include 6 months of new observations*
  - Cycle-5 starts in July 2008
  - Expected cryogen depletion date is April 2009
  - 2-3 months of previous cycle observations will remain to be executed when Cycle-5 begins
  - No large proposals (> 200 hours) solicited
  - No joint HST/Chandra proposals this cycle
- *Selected Hours and Scheduling Priorities*
  - Priority 1 = high, 2 = medium, 3 = low
  - Expect to execute observations with scheduling priorities 1 and 2
  - Scheduling Priorities 1+2: GO/Legacy 2800 hrs GTO = 525 hrs
  - Scheduling Priority 3: GO/Legacy 2800 hrs GTO = 525 hrs
  - DDT: up to 350 hours
- *Data analysis funds ~ \$15-18 million*
  - \$2 million for Archive/Theory



## Cycle-5 Schedule



- **Proposal Call Issued** **August 15, 2007**
- **Proposal Submission Deadline** **November 16, 2007**
- **Cycle-5 Review Meeting** **February 11-15, 2008**
- **Notify successful proposers** **March 2008**
- **Begin scheduling Cycle-5** **July 2008**
  - *High priority cycle-5 observations could begin scheduling earlier in 2008*



## Proposals Received



- **720 proposals received**
  - 545 General Observer +78 Archival + 31 Theoretical + 66 GTO
  - Cycle-4: 810 (631 +66 + 35 + 78)    Cycle-3: 787 (612 +70 + 32 + 73)
  - Cycle-2: 704 (630 +56 + 18 + 0)    Cycle-1: 594 (576 + 18 + 0 + 0)
- **Observing Proposals**
  - 14,918 GO hours requested (2800 hr estimated available)
    - [C4: 25,430 requested - 5,350 available    C3: 21,852 requested - 6,000 available]
  - **Oversubscription ~ 5.3** [Cycle-4 =4.8, Cycle-3 = 3.6, Cycle-2 = 3.1]
  - GO Medium and Legacy Proposals
    - 12 Legacy (1,640 hr)    54 medium (4,473 hr)    Total = 6,113 hours
    - [C4: 24 Legacy (6,893 hr)    80 medium (7,249 hr)    5 large (1,418)    Total = 15,560 hours]
    - [C3: 22 Legacy (5,480 hr)    56 medium (5,255 hr)    3 large (885.8)    Total = 11,621 hours]
  - Small Proposals
    - 479 proposals (8,805 hrs) [C4: 522 proposals, 9,870 hr -- C3: 531 proposals, 10,231 hr]
- **Archive/Theory Proposals**
  - \$6.1 million (archive) and \$2.7 million (theory) requested    Total \$8.9 million
  - +17% increase for archive requests, +5% increase for theory versus Cycle-4
  - ~\$2 million available    **Oversubscription: 4.4**

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## Joint Time Requested



- | <u>Requested</u>   | <u>Available</u>      |
|--|-----------------------|
| <ul style="list-style-type: none"> <li>• <b>NRAO    6 proposals</b> <ul style="list-style-type: none"> <li>– VLA: ~60 hours               <ul style="list-style-type: none"> <li>• Multiple requests for simultaneous/contemporaneous observations</li> </ul> </li> <li>– GBT: no requests</li> </ul> </li> <li>• <b>NOAO    5 proposals</b> <ul style="list-style-type: none"> <li>– Gemini: 48.9 hours</li> <li>– CTIO: 0.9m = 3 nights, 1.3m = 2 nights</li> <li>– NOAO: 4m = 3 nights</li> </ul> </li> </ul> | <p><b>200 hrs</b></p> |

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## Institutions/Countries



- **196 (211, 206, 203) institutions in 22 (27, 28, 25) nations**

- **Top 10+ institutions (non-GTO proposals)**

SSC	60	JPL	20	GSFC	15
Harvard/SAO	40	IPAC/MSU/NHSC	18	UCLA	14
Arizona	24	Caltech	17	Michigan, Durham	12

- **24% are foreign-led proposals (up 5% from C4)**

- **Distribution of foreign proposals**

- 37 UK
- 16 France
- 13 Canada
- 11 Italy, Spain
- 10 Japan
- 7 Germany, Netherlands, Switzerland
- 5 Chile
- 4 Belgium
- 3 China, Korea
- 2 Australia, Austria, Denmark, Hungary, Poland
- 1 Greece, Israel, Ireland, Venezuela

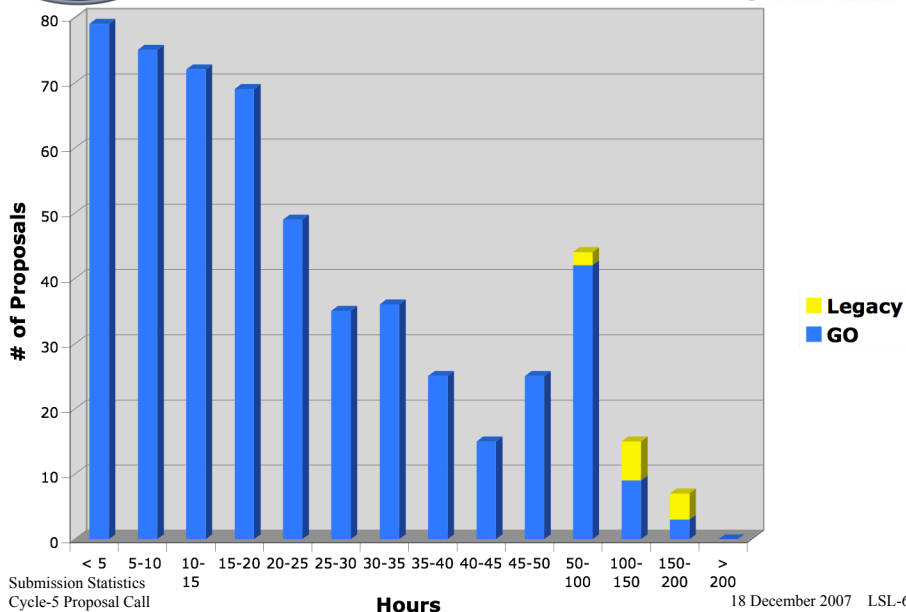
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(Cycle-4,3,2 numbers are in parentheses)

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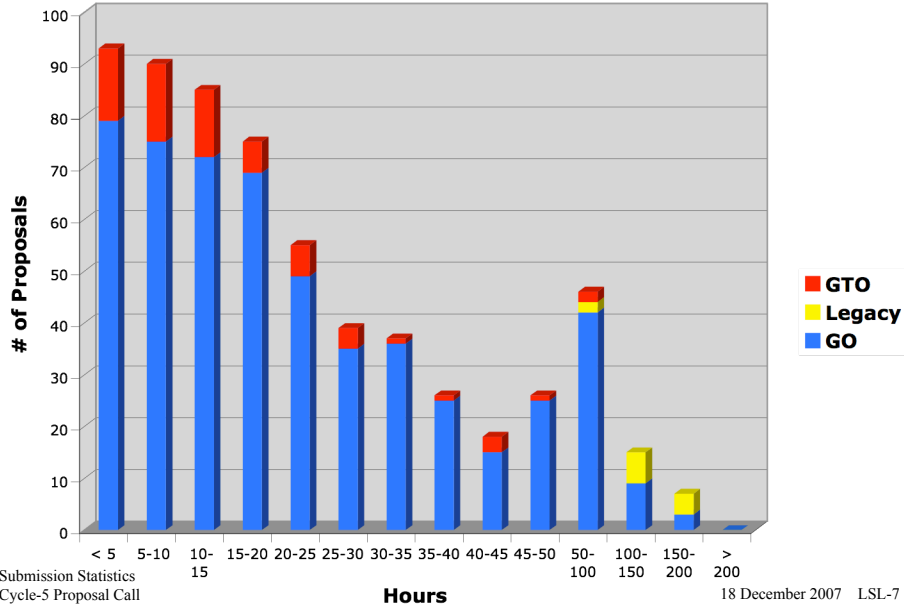


## Cycle-5 GO + Legacy

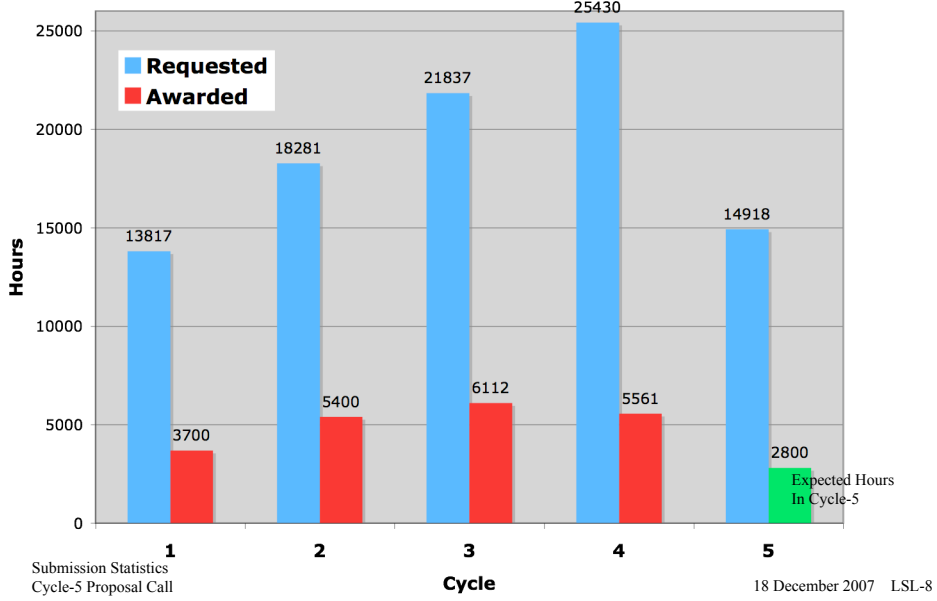




## Cycle-5 All

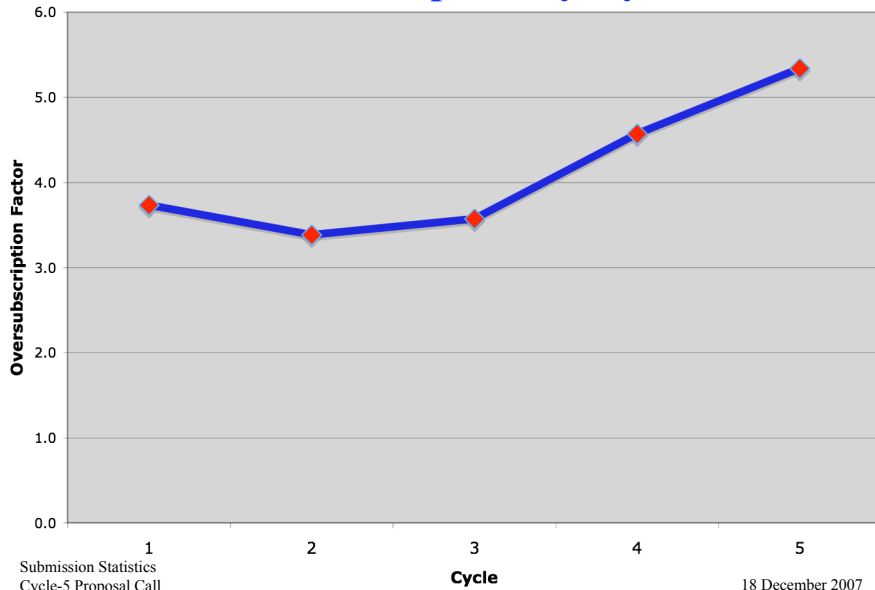


## GO Hours by Cycle

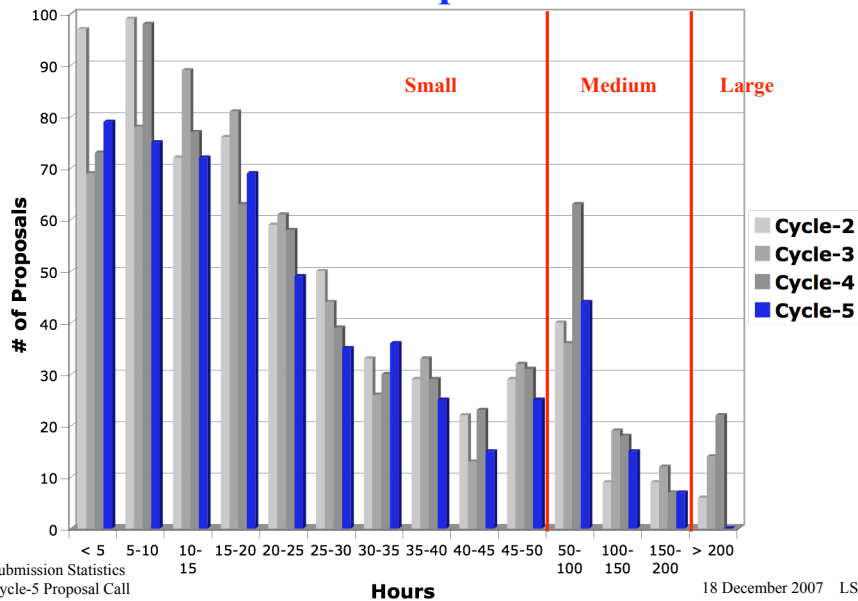




## Requested Hours Oversubscription by Cycle

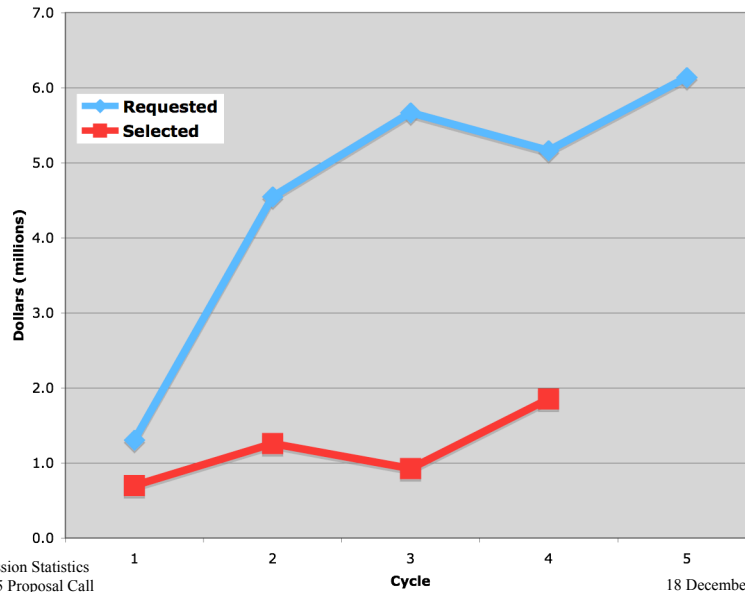


## History of GO Time Requested





## Archive Research Support

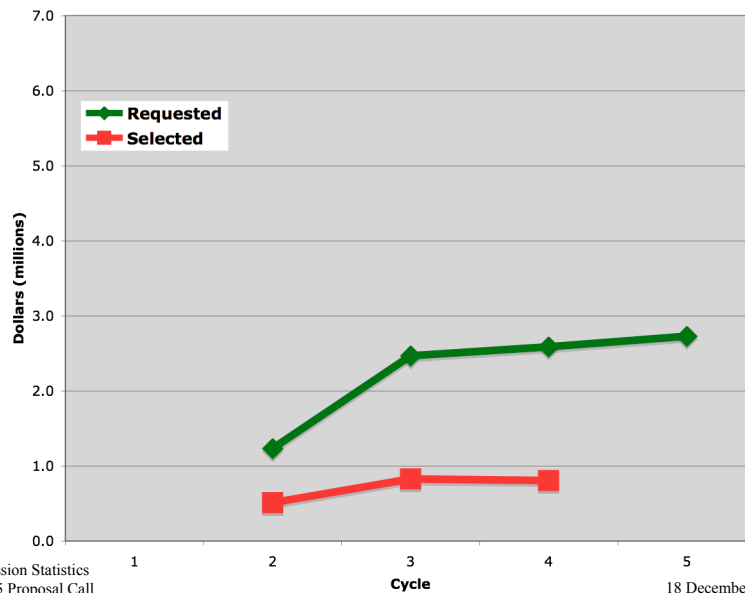


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## Theory Research Support

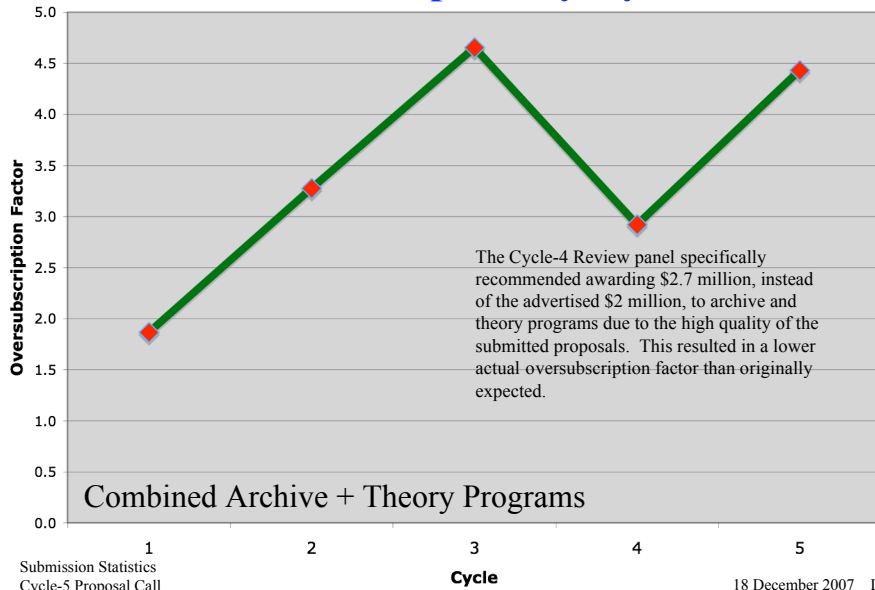


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## Requested Dollars Oversubscription by Cycle



## Cycle-5 Proposal Size Statistics



Proposal Size	Number	Median (hours)	Mean (hours)
All GO	545 (631, 612,630)	17.4 (20.3,19,18)	26.1 (40.3,36,29)
Small (< 50 hrs hrs)	480 (522,531,565)	15.6 (15.6,17,16)	18.4 (18.9,19,19)
Medium (50-200 hrs)	54 (80,56,59)	73.1 (79.9,91,78)	83.5 (90.6,94,95)
Large (> 200 hrs)	0 (5,3,6)	n/a (256,307,379)	n/a (283.6,295,374)
Legacy (> 50 hrs)	12 (24,22,0)	148.3 (277.7,219,0)	143.9 (287.2,249,0)
Archival (\$25-150k)	78 (66, 70, 56)	\$75k (74k,72k,72k)	\$79k (78k,81k,81k)
Theoretical (\$50-150k)	31 (35, 32, 18)	\$75k (74k,70k,70k)	\$88k (75k,74k,68k)

(Cycles-4,3,2 Numbers in parentheses)



## Science Categories Number of Proposals



- **Extragalactic (45.4%)** *45 medium*

AGN/QSOs/RG	72 (6)	CIB	1	GRBs	2	Dark Matter	2
ULIRG/LIRG/HLIRG	15 (4)	Cosmology				8	(5)
High-z ( $z > 0.5$ )	61 (17)	High-z clusters				20	(2)
Intermediate-z	15 (2)	Local Group				20	(5)
Nearby galaxies	68 (2)	Starbursts				5	(1)
Interacting/Merging	18	Low-z clusters				20	(1)
- **Galactic (49.9%)** *20 medium*

Compact Objects	33 (1)	HII Regions	6	ISM		39	(2)
Evolved stars	40 (1)	Clusters	7 (1)	YSOs		28	(1)
Star Formation	54 (5)	Stellar Pop.	4	Debris Disks		91	(2)
Galactic structure	1 (1)	X-gal stars	3	Massive Stars		7	(1)
BD/low mass stars	24	X-solar Planets	23 (5)				
- **Solar System (4.7%)** *3 medium*

Asteroids	13 (1)	Planets	1	Satellites	2	Comets	8
Zodiacal dust	1	Kuiper belt objects	6 (2)			NEOs	3

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Note: **Bold**=total proposals, parentheses=(medium).  
Includes all proposals (GO/Legacy, GTO, AR/TR)

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## Science Categories % of Time Requested



- **Extragalactic (58.7%)**

AGN/QSOs/RG	10.9%	CIB	0%	GRBs	0.3%	Dark Matter	0.2%
ULIRG/LIRG/HLIRG	2.7%	Cosmology				3.2%	
High-z ( $z > 0.5$ )	17.5%	High-z clusters				3.2%	
Intermediate-z	3.1%	Local Group				3.5%	
Nearby galaxies	8.3%	Starbursts				0.8%	
Interacting/Merging	1.9%	Low-z clusters				3.1%	
- **Galactic (37.2%)**

Compact Objects	2.3%	HII Regions	0.5%	ISM		3.8%	
Evolved stars	3.6%	Clusters	0.8%	YSOs		2.0%	
Star Formation	7.6%	Stellar Pop.	0.4%	Debris Disks		6.9%	
Galactic structure	0.9%	X-gal stars	0.4%	Massive Stars		0.6%	
BD/low mass stars	2.1%	X-solar Planets	5.3%				
- **Solar System (4.1%)**

Asteroids	1%	Planets	0.2%	Satellites	0.1%	Comets	0.5%
Zodiacal dust	0.2%	Kuiper belt objects	1.8%			NEOs	0.3%

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## Legacy Proposals



- **12 Legacy proposals submitted**
  - 1640 hours requested (C4: 6893 hrs, C3: 5480 hrs)
  - Proposal size: 81.3 - 190 hours
- **6 Extragalactic , 4 Galactic**

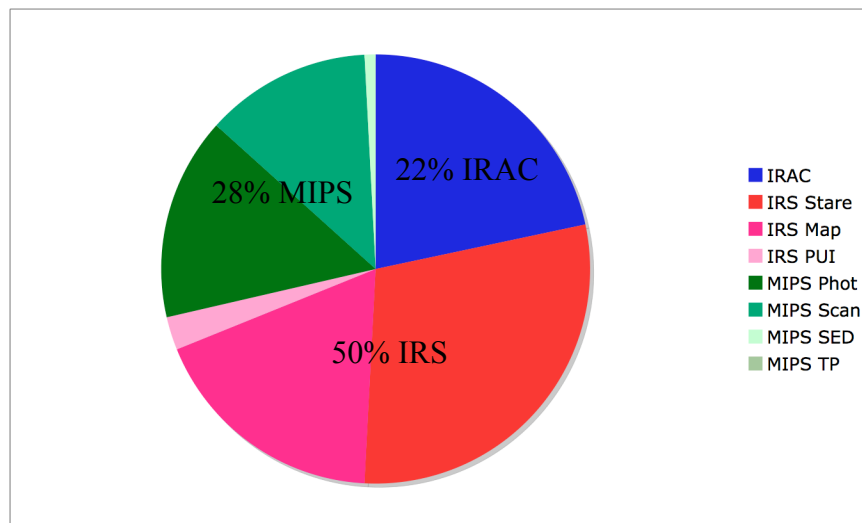
Category	Proposals	Hours
AGN/QSOs/Radio Galaxies	2	271.3
High-z ( $z > 0.5$ )	2	333.0
Cosmology	2	231.2
Intermediate-z	1	136.2
Star Formation	3	400.6
Galactic Structure	1	147.5
Exoplanets	1	120.0

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## Time Request by AOT



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