

JCMT USERS MEETING, APRIL 2016, MITAKA, JAPAN

JCMT LARGE PROGRAMS

LARGE PROGRAM RATIONAL

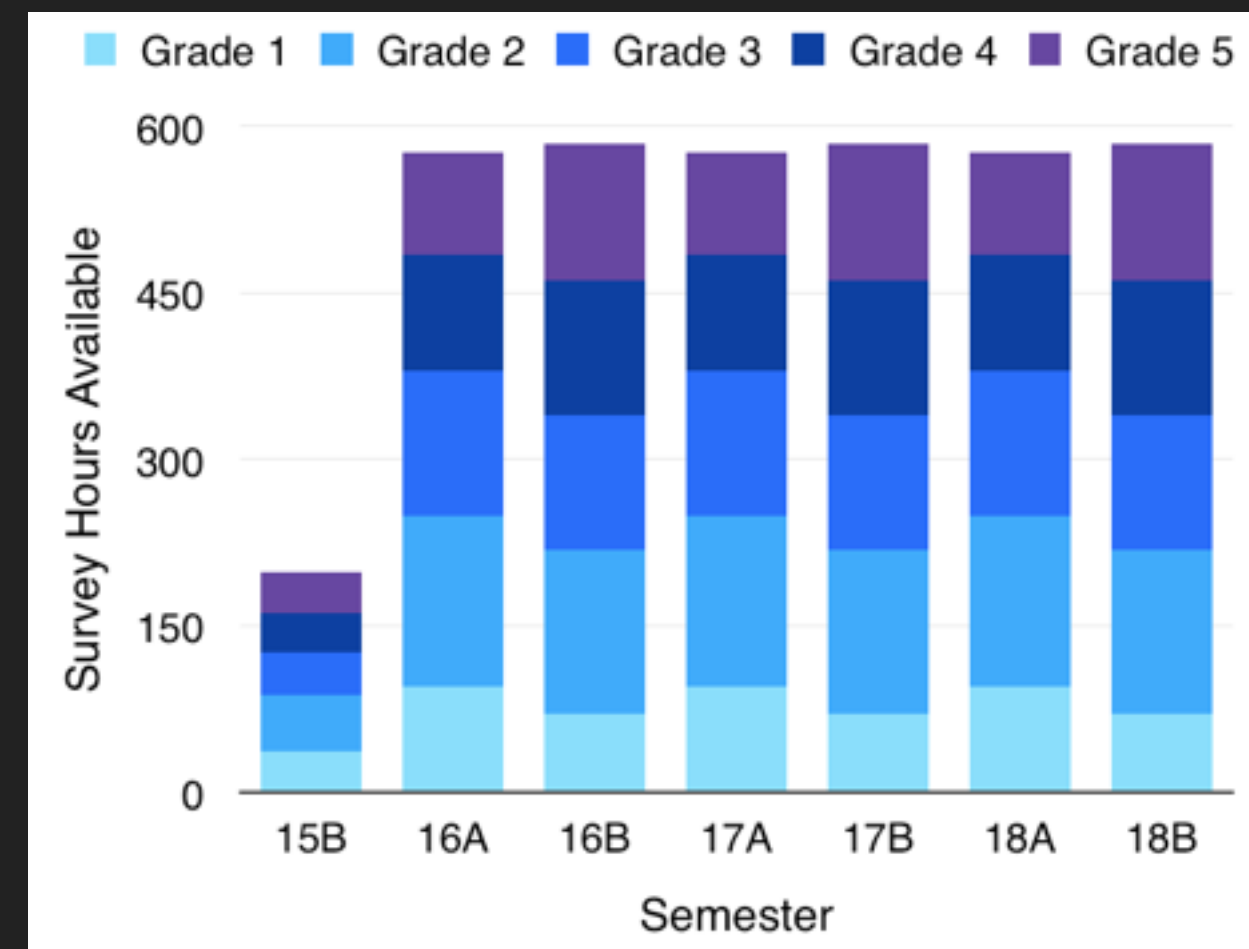
- ▶ Ensuring the best science is undertaken at the JCMT
 - ▶ Dedicating 50% of science time across multiple semester to answer big science questions
- ▶ Promoting and supporting new partnerships
- ▶ Improving on the success of the JCMT Legacy Surveys
 - ▶ The SCUBA-2 Ambitious Sky Survey (SASSy)
 - ▶ The SCUBA-2 Cosmology Legacy Survey (CLS)
 - ▶ The Nearby Galaxies Survey (NGS)
 - ▶ The JCMT Galactic Plane Survey (JPS)
 - ▶ The Gould Belt Survey (GBS)
 - ▶ The Spectral Legacy Survey (SLS)
 - ▶ Survey of Nearby Stars (SONS)



LARGE PROGRAM CALL

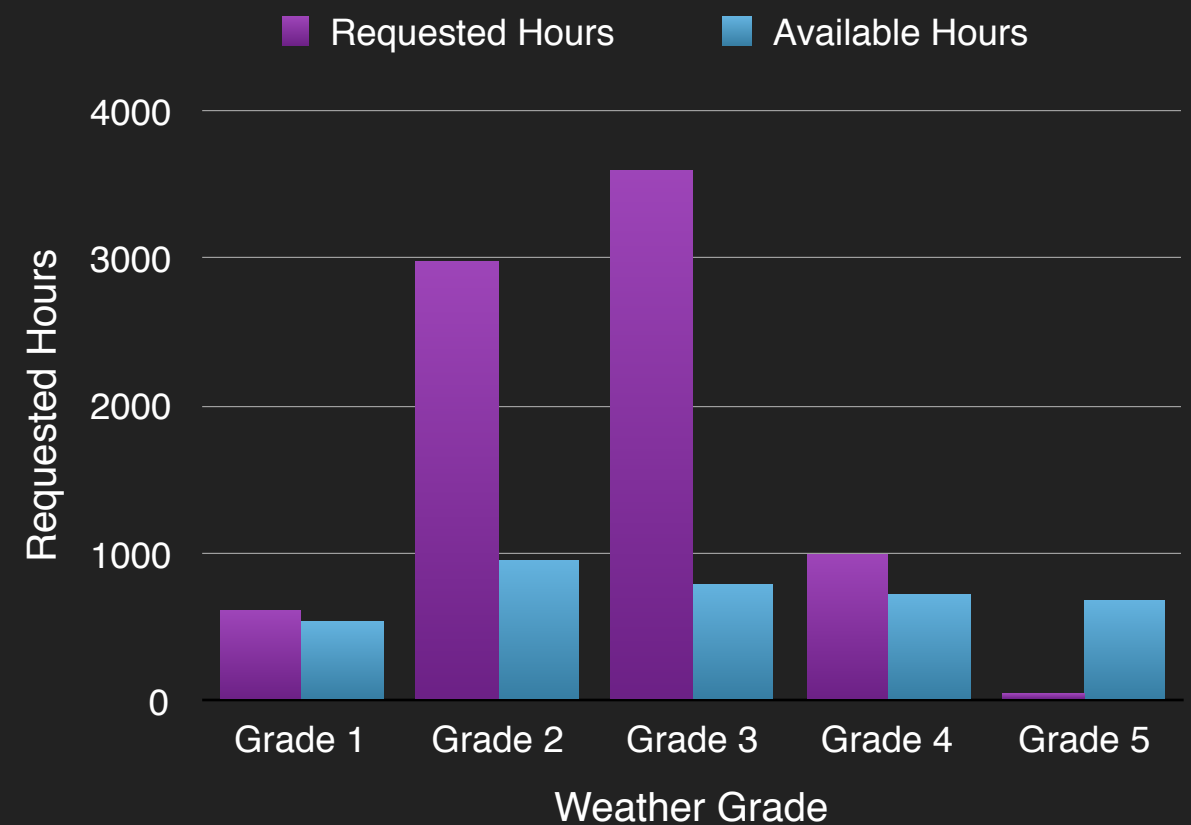
- ▶ Large program call opened July 1st 2015
- ▶ Up to 3,676 hours available over three years
 - ▶ 50% of telescope time from December 2015 - January 2019
- ▶ Requirements:
 - ▶ self contained & answering number of important scientific questions
 - ▶ >200 hours
 - ▶ demonstrate legacy value
 - ▶ include members from multiple EAO partner regions
- ▶ Large Program call closed July 31st 2015

Semester	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Total Hours
15B	36	51	38	36	35	197
16A	95	154	131	104	92	576
16B	70	148	121	122	122	584
17A	95	154	131	104	92	576
17B	70	148	121	122	122	584
18A	95	154	131	104	92	576
18B	70	148	121	122	122	584
Total	532	955	795	715	679	3676

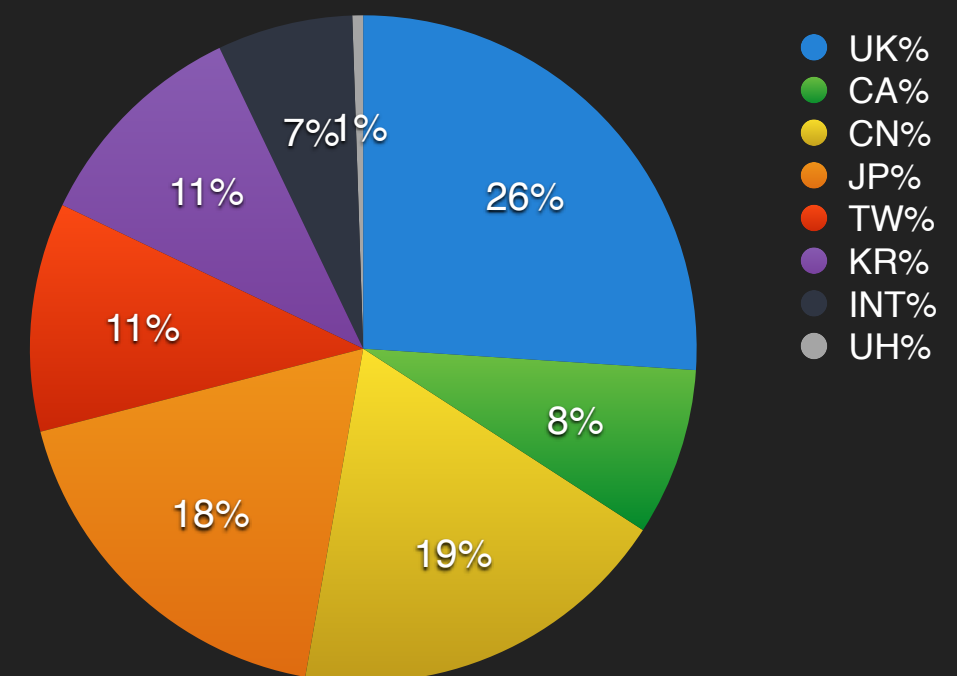


LARGE PROGRAM SUBMISSIONS

- ▶ 19 programs submitted
 - ▶ requesting > 8,400 hours
 - ▶ Involving ~700 scientists from across the EAO regions and partner communities, and 40 more from other institutes
- ▶ Instrument pressure:
 - ▶ largest pressure for SCUBA-2, 61%
 - ▶ HARP 25%
 - ▶ RxA3m 14%



Region average %co-Is per proposal



LARGE PROGRAM ALLOCATIONS

- ▶ 2,397 hours allocated to seven programs
- ▶ Programs ranked on scientific merit
- ▶ Under-allocation of time will allow programs to be completed faster than predicted - faster science return
- ▶ Mid-Term review March 2017
 - ▶ review current programs
 - ▶ accept new programs
 - ▶ return unallocated hours to PI queue
- ▶ Only members from EAO partners and regions can have access to raw and initial data products

Large Program Allocations

Large Program	Instrument	Hours awarded
A Transient Search for Variable Protostars	Sc-2	150
S2-COSMOS: An EAO SCUBA-2 survey of 1,000 SMGs in the COSMOS field	Sc-2	223
SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution	Sc-2	300
BISTRO: B-fields In Star forming RegiOns	Pol-2	224
JINGLE: the JCMT dust and gas In Nearby Galaxies Legacy Exploration	Sc-2/RxA	780
STUDIES: SCUBA-2 Ultra Deep Imaging EAO Survey	Sc-2	330
MALATANG: Mapping the Dense Molecular Gas in the Strongest Star-forming Galaxies	HARP	390
Total		2397

Hours awarded per weather band

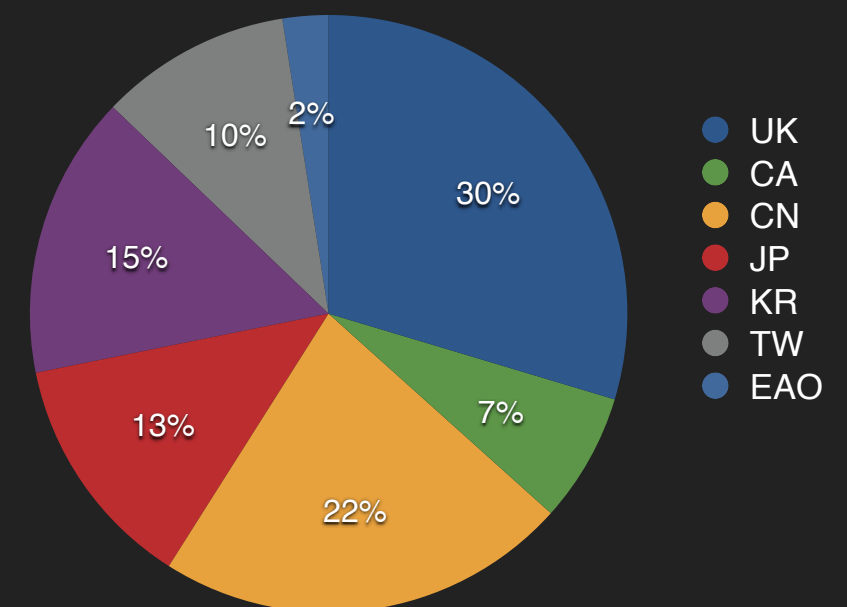
Large Program	Band 1	Band 2	Band 3	Band 4	Band 5
Transient	50	50	50		
S2-COSMOS		111	112		
SCOPE			150	150	
BISTRO		224			
JINGLE		57	123	200	400
STUDIES	330				
MALATANG		40	100	250	

OPEN ENROLLMENT

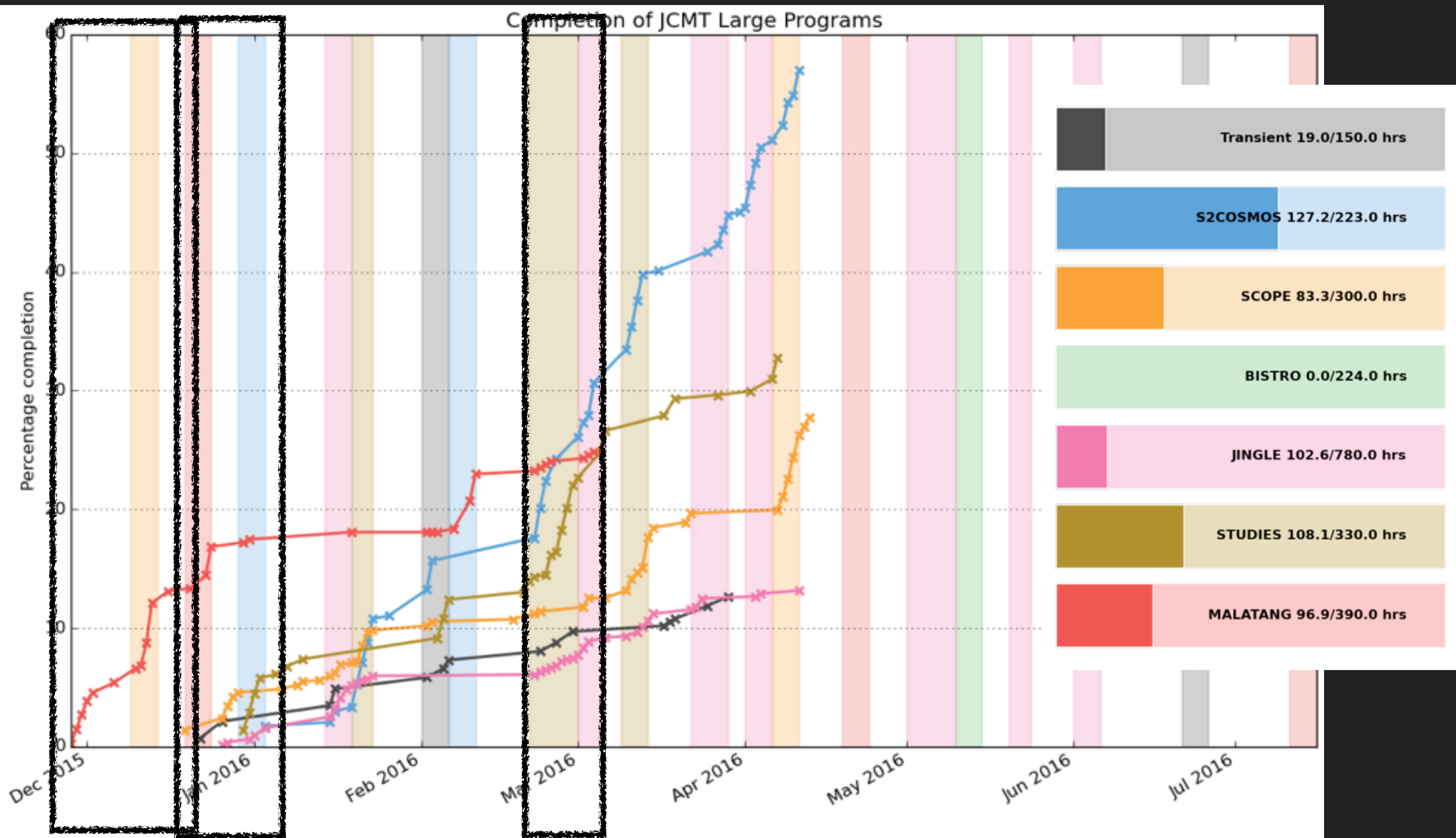
- ▶ November - January, period of open enrollment
- ▶ Large Programs open to all astronomers from EAO regions and partners
- ▶ received ~230 unique requests to join one or more of the approved Large Programs
 - ▶ nearly half of the requests were for more than one program.
- ▶ Almost even split in terms of interest
- ▶ The challenge for coordinators will be to find ways to enable and promote collaboration amongst the regions
- ▶ In total the programs increased from 285 members to 685 members in total.



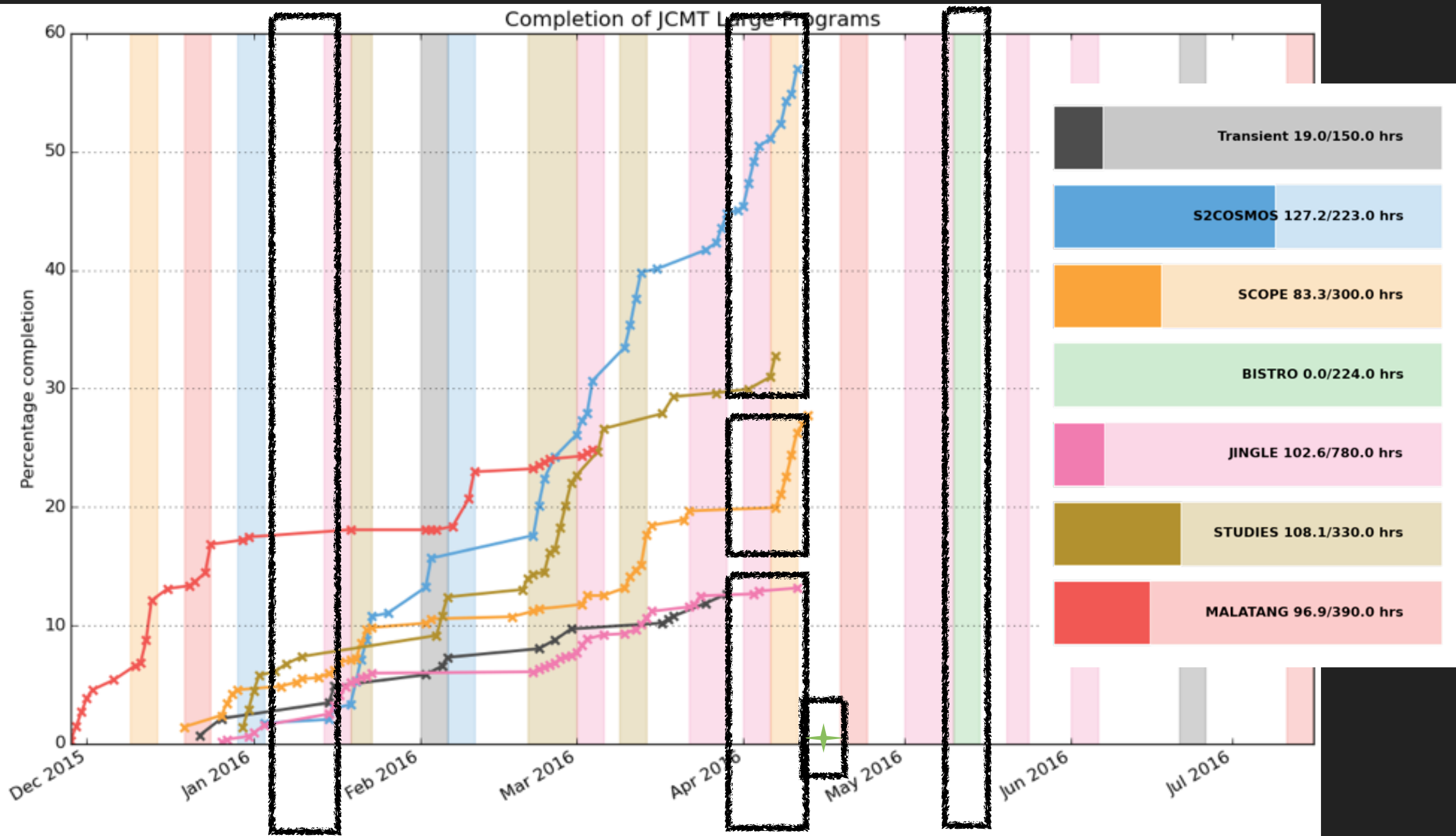
Current membership proportions



CURRENT STATUS



CURRENT STATUS



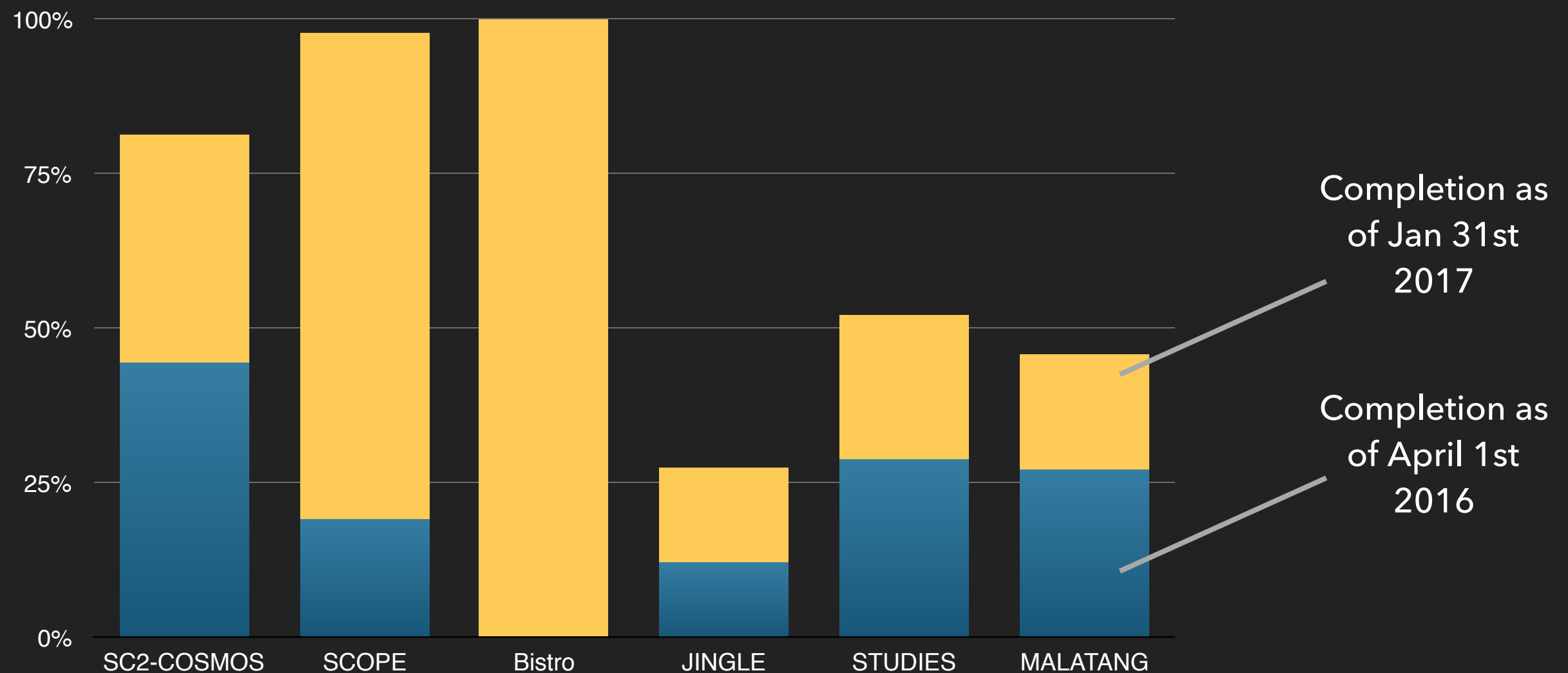
ALONG THE WAY...

- ▶ Instrumentation
 - ▶ unscheduled warm up of SCUBA-2 in early December
 - ▶ delay in returning RxA3m to operations
- ▶ Weather conditions on Maunakea
 - ▶ currently: El Nino - exceptionally dry winter for 2015/16
 - ▶ forecasted: La Nina - exceptionally wet winter for 2016/17
- ▶ Every photon is precious!
 - ▶ Under unusual conditions the Large Programs have ensured that there is always good science to fall back to (even in PI time)



CURRENT STATUS/THE FUTURE

- ▶ Completion levels (as of April 1st) and predictions to 16B shown
 - ▶ at this is the time (or before!) the focus will shift to the Mid-Term Review



LARGE PROGRAM MID TERM REVIEW

- ▶ Large Program review: March 2017
- ▶ Review of all current programs
 - ▶ Project status/completion/sensitivities, publications and productivity
 - ▶ All programs will have to seek approval for continuation
- ▶ Open call for additional Large Programs
- ▶ Start working on your ideas/seeking collaborators now!
- ▶ Any questions/concerns please email me: h.parsons@eaobservatory.org

