NOAO TAC experience with CHARA proposals

Steve Ridgway, NOAO

Available Facilities

The latest Call for Proposals is available here.

Facility	Telescope	Approximate nights available for new 2018A programs	Additional Info
Gemini	8m Gemini North Telescope	65	
	8m Gemini South Telescope	58	
	8m Subaru Telescope (available through exchange)	3	
CTIO	4m Blanco Telescope	56	
SOAR	4.2m SOAR Telescope	40	
SMARTS	1.5m, 1.3m, 0.9m	120hrs, 140hrs, 21N	
WIYN	3.5m WIYN Telescope	57	NASA Exoplanet GO Proposals for the WIYN 3.5-m Telescope
	0.9m Telescope	28	
LBT	Large Binocular Telescope, two 8.4m mirrors	8	Community Access to LBT
AAO	3.9m AAT at the Australian Astronomical Observatory (available through exchange)	5	Community Access to AAT
CHARA	6 X 1m Interferometer	23	Community Access to CHARA
LCO	Las Cumbres Observatory Global Telescope Network, 1m and 2m	1200hrs, 220hrs	The LCO 2018A observing period will run from 1 December 2017 – 31 May 2018, with proposals due 2 October 2017 as part of the regular NOAO Call

- CHARA Website

- CHARA Paper
- Instruments
- CHARA Community Access
- NOAO Proposal Information
- Schedules
- Observing Preparation
- Weather/Sky conditions
- Publications
- Map & Directions
- People

Time Available

In order to increase community awareness and support of optical interferometry, CHARA has offered nights for open-access through NOAO. The current count/status of open-access nights is shown in the following table.

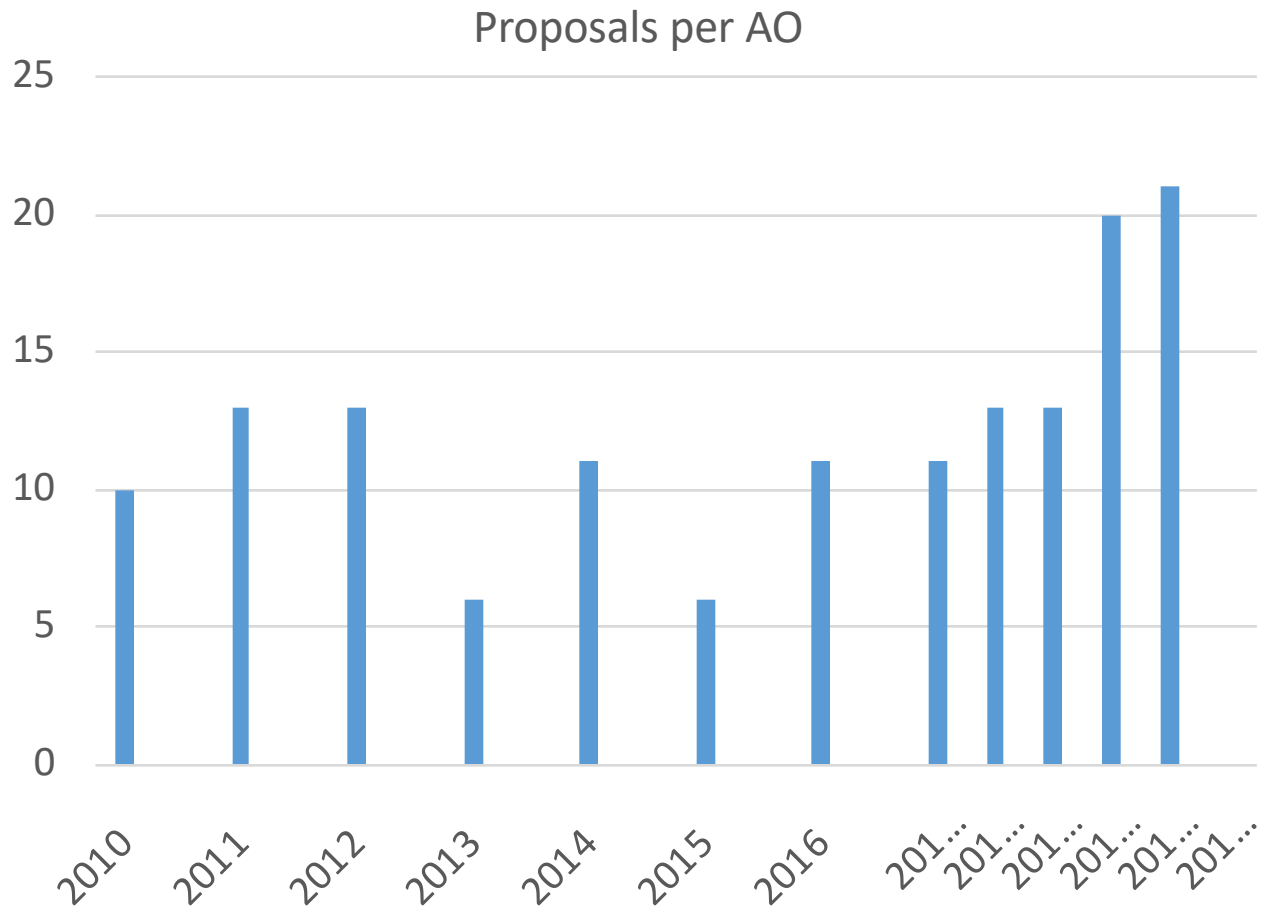
2007B	2008A	2008B	2009A
-	-	-	-
2009B	2010A	2010B	2011A
-	5	-	5
2011B	2012A	2012B	2013A
	5		5
2013B	2014A	2014B	2015A
	5		5
2015B	2016A	2016B	2017A
	5		10
2017B	2018A	2018B	2019A
15	25	28	22
			TOTAL
			135

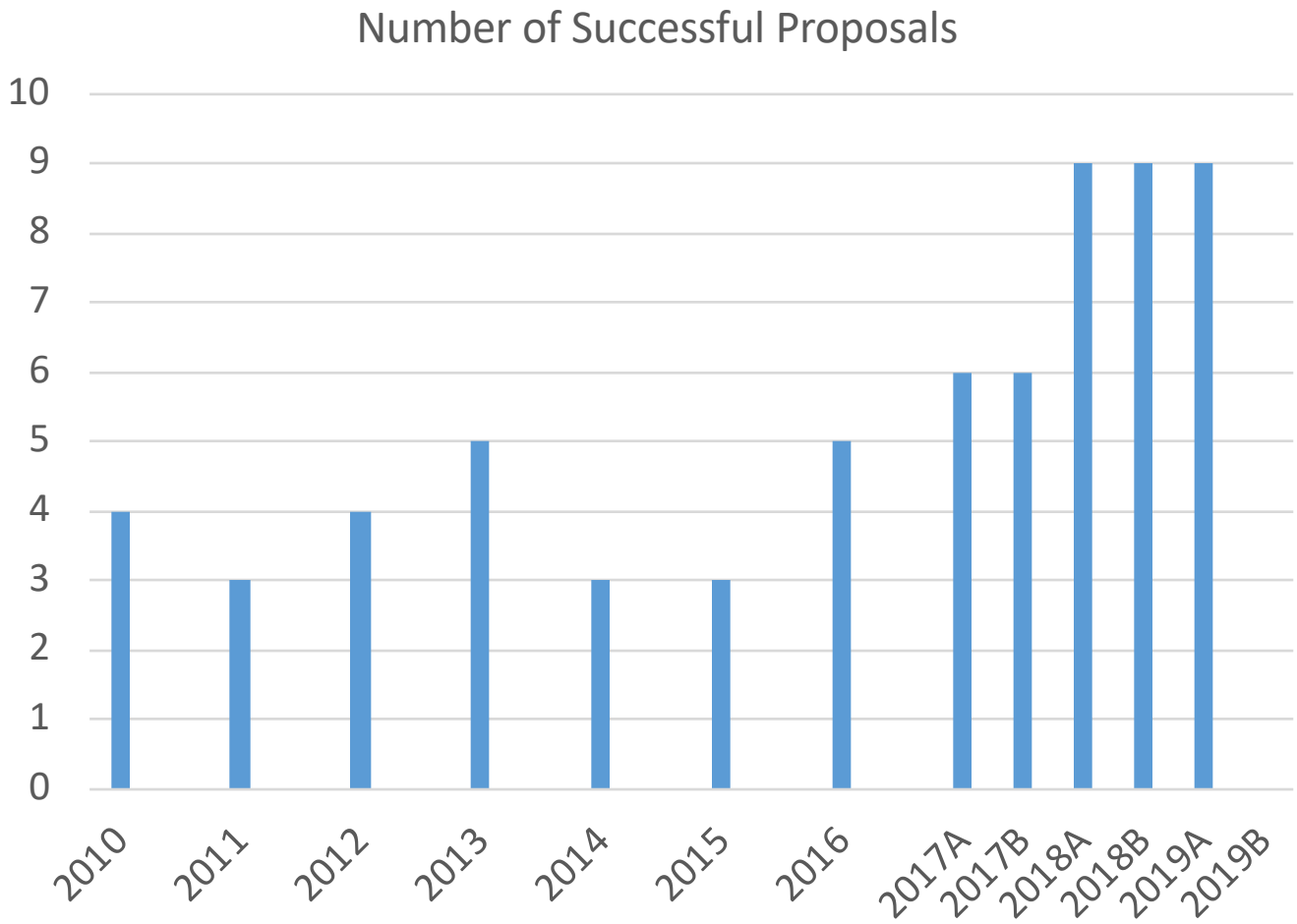
Center for High Angular Resolution Astronomy

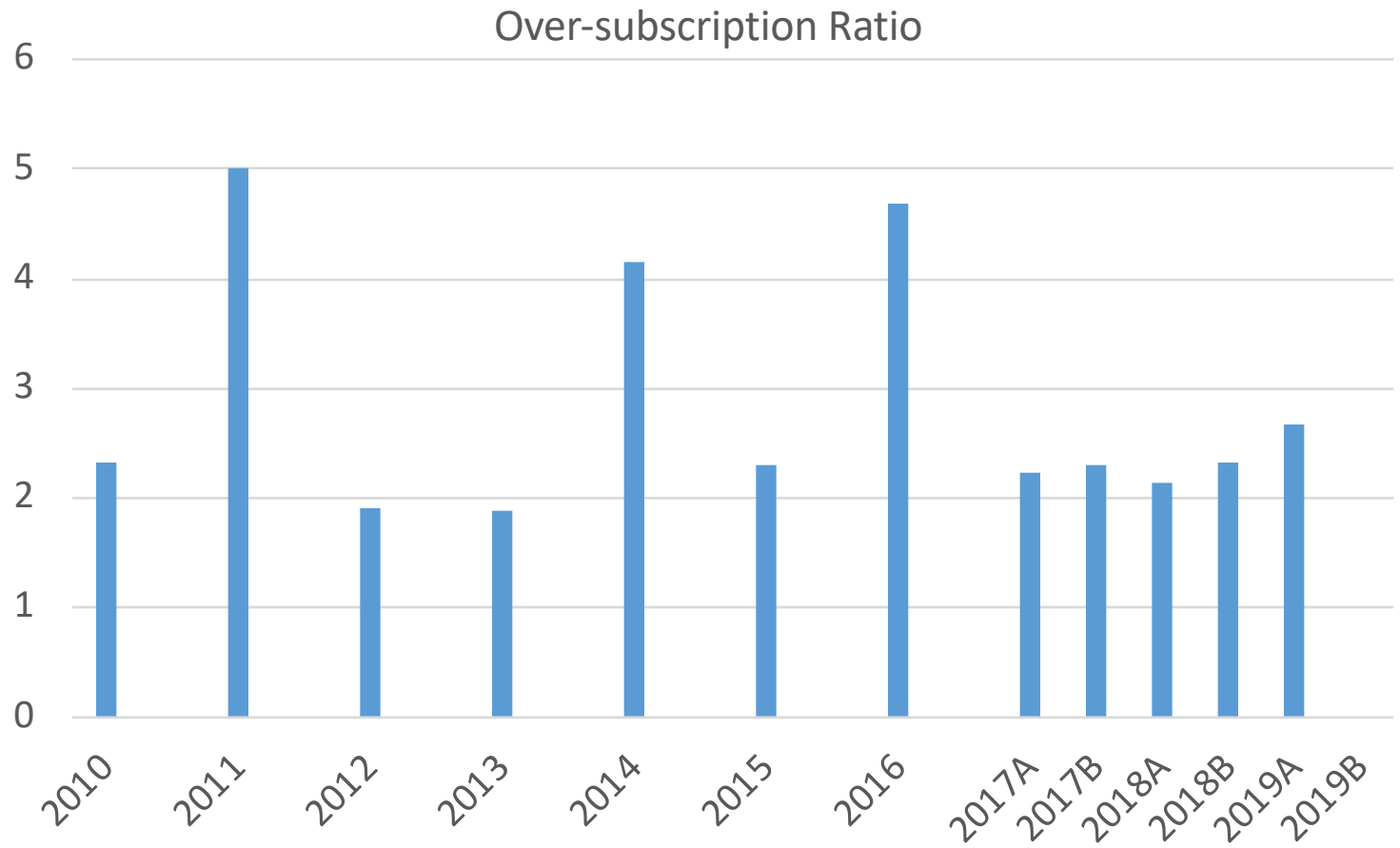
The CHARA Array is located on Mount Wilson in the San Gabriel Mountains of Southern California. The Array utilizes the principles of optical and infrared interferometry to link its six 1-meter telescopes together to produce resolution equivalent to that of a single telescope more than 300 meters in diameter, making it the highest angular resolution optical telescope in the world. A complement of beam combiners offers interferometric capability in the range 0.5 to 2.5 microns. Multibeam combiners (up to six telescopes) support interferometric imaging.

Last updated or reviewed March 2, 2011.

Mode	Telescopes	Band	Typical limit Mag= (2)	Best performance Mag= (2)	At Spectral Resolution R=
Acquisition	6	V-R	10.0	12.0	Broad band
Tilt tracking	6	V-R	10.0	12.0	Broad band
CLASSIC	2	H or K band	7.0	8.5	Broad band
CLIMB	3	H or K band	6.0	7.0	Broad band
JouFLU will be withdrawn for service effective end of 2019A					
MIRC(1)	6	H	5.5	6.5	50
PAVO	2	630-900 nm	7.0	8.0	30
VEGA (hi-res)	2 or 3	2 bands of 7nm (separation 30nm) in 520-850nm	4.0	5.0	30000
VEGA (med-res)	2 or 3	2 bands of 35nm (separation 160nm) in 520-850nm	6.5	7.5	6000

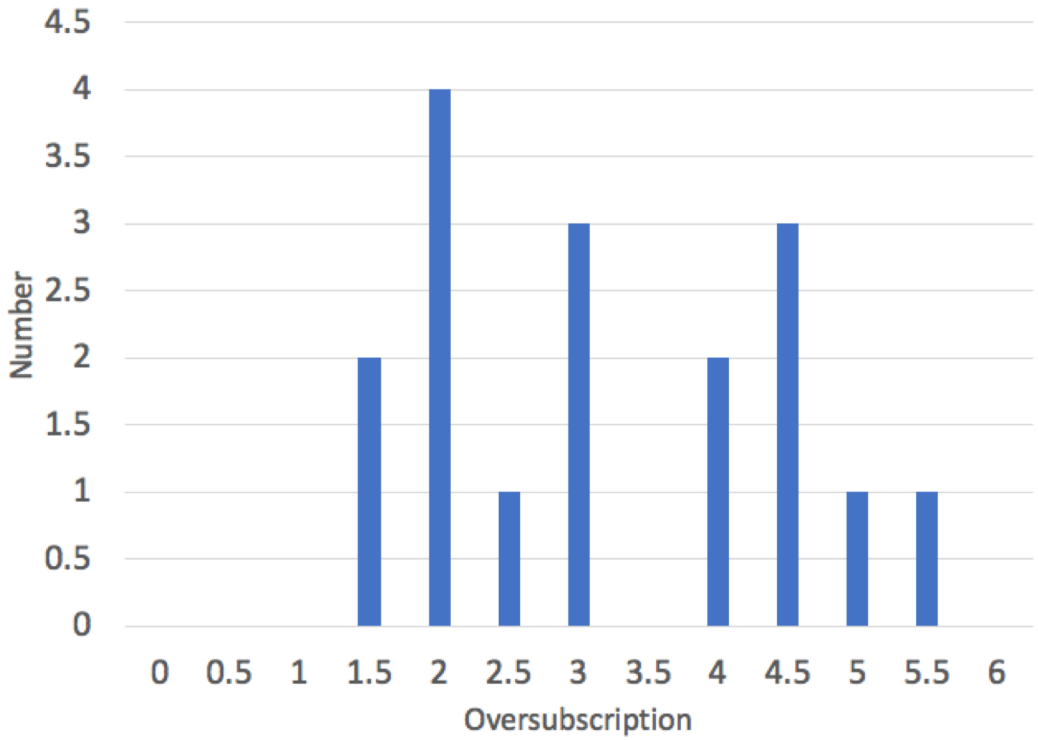

Proposals per AO
25
20
15
10
5
0
2010
2011
2012
2013
2014
2015
2016
201…
201…
201…
201…
201…
201…


Number of Successful Proposals
10
9
8
7
6
5
4
3
2
1
0
2010
2011
2012
2013
2014
2015
2016
2017A
2017B
2018A
2018B
2019A
2019B


Over-subscription Ratio
6
5
4
3
2
1
0
2010
2011
2012
2013
2014
2015
2016
2017A
2017B
2018A
2018B
2019A
2019B

Gem-N	3.75
Gem-S	4.05
CTIO-4m	2.28
SOAR	1.17
CTIO-1.5m	4.18
CTIO-1.3m	7.57
CTIO-1.0m	1.7
CTIO-0.9m	1.89
KP-4m	1.83
WIYN	1.99
KP-2.1m	1.32
KP-0.9m	2.57
Keck I	2.86
Keck II	4.25
HET	2.43
Magellan I	6
Magellan II	5
MMT	3.67

NOAO 2009B Telescope Statistics



NOAO 2019A Telescope Statistics

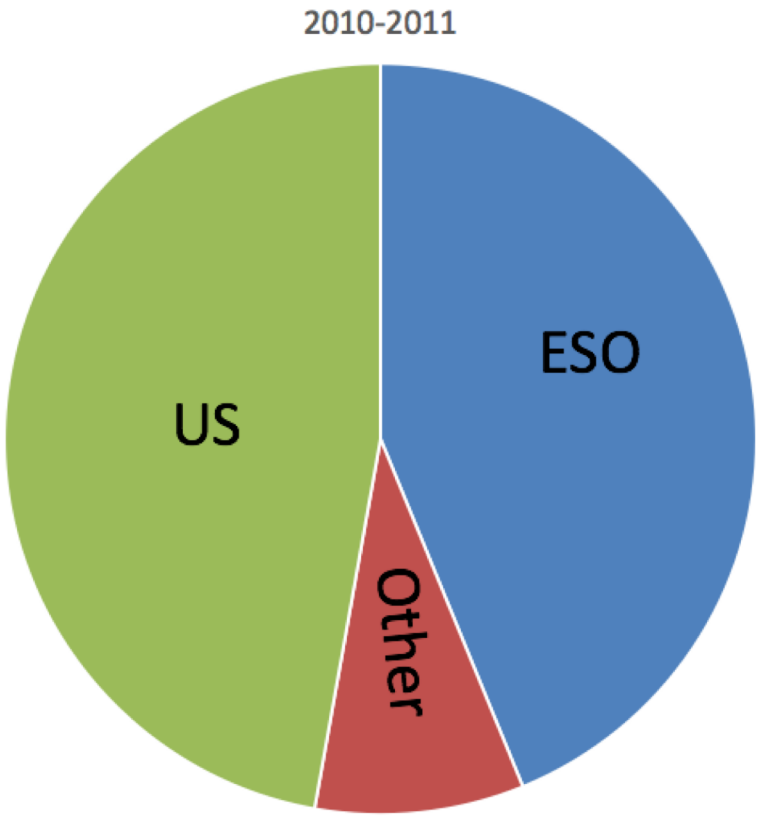
Telescope	Requests	Nights Requested	Average Request
LBT	29	14.0	0.48
AAT	7	19.0	2.71
LCO-2m	17	29.4	1.73
LCO-1m	29	325.0	11.21
CHARA	30	60.0	2.00

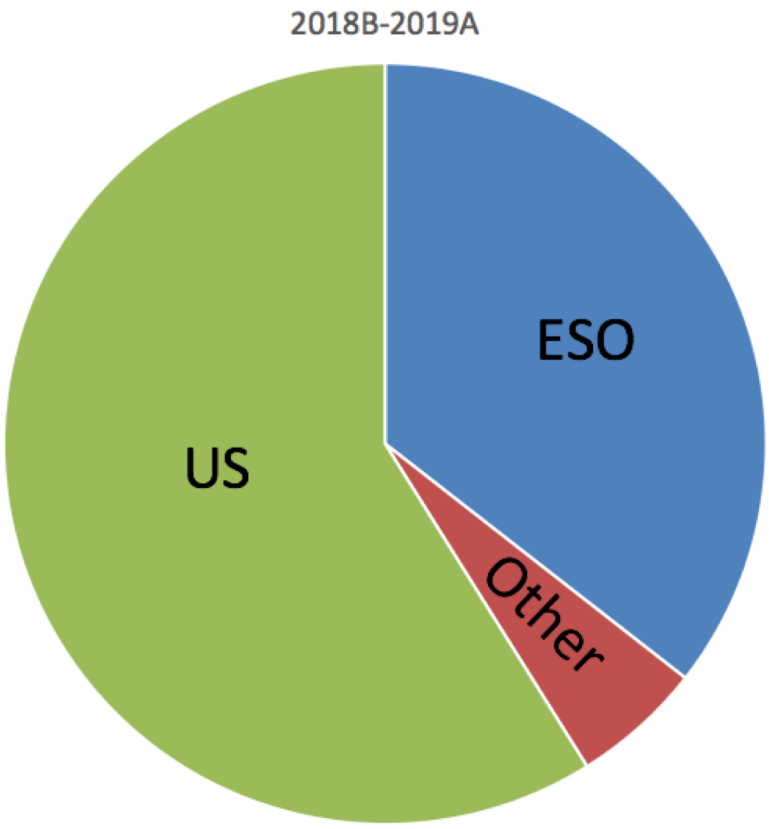
NOAO 2019A Telescope Statistics

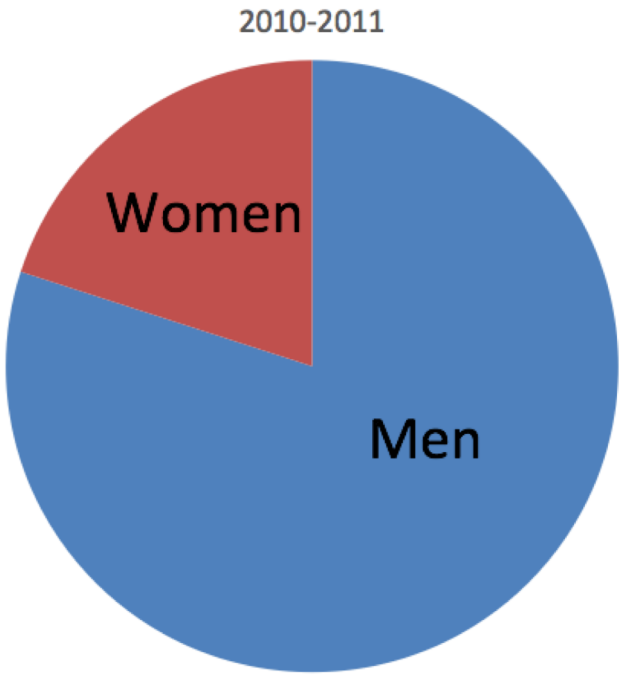
CHARA						
Telescope/Instrument	**Proposals**	**"Runs"**	**Total Nights**	**Dark Nights**	**Percentage Dark**	**Average Nights/Run**
CHARA	**17**	**29**	**59.0**	**0.0**	**0**	**2.0**
Classic	4	5	9.5	0.0	0	1.9
Climb	2	5	6.5	0.0	0	1.3
MIRC	7	12	21.0	0.0	0	1.8
PAVO	5	5	14.0	0.0	0	2.8
VEGA	2	2	8.0	0.0	0	4.0

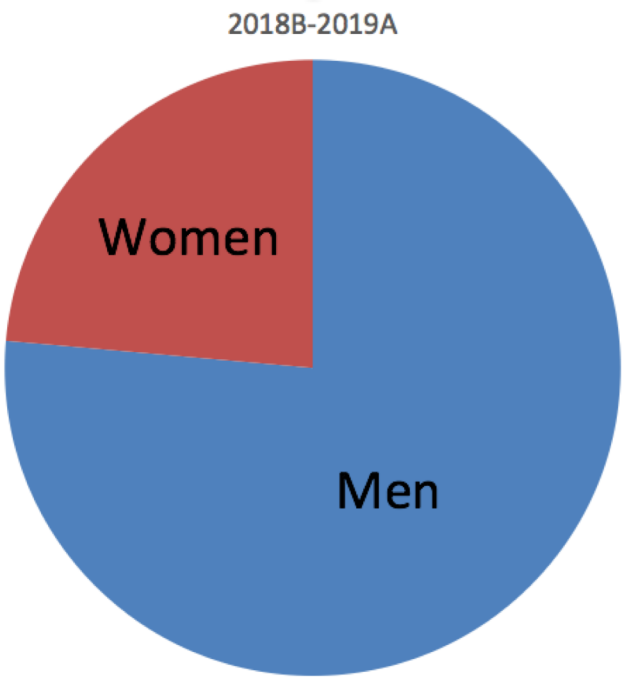
Number of PI/co-I for Proposals

First 2 AOs	2010-2011	90 PI/co-I
Last 2 AOs	2018B-2019A	90 PI/co-I


2010-2011
US
ESO
Other


2018B-2019A
US
ESO
Other


2010-2011
Women
Men


2018B-2019A
Women
Men