Astronomical League Observing Program Division Annual Report 2019

Submitted by the Astronomical League Observing Program Division Board:

Aaron Clevenson Cliff Mygatt Al Lamperti Maynard Pittendreigh

Highlights for the year:

2018-2019 has been a good year for the Astronomical League Observing Programs. A total of 676 certificates and/or pins were issued during the previous year (2018) and as of this time, a grand total of 15,779 certificates have been issued by the Observing Program Division. At the end of this report, there is a detailed analysis of all of the observing programs and awards. Budget information for the next year for the Observing Program Division as well as the total expenses for the previous year were sent separately to the AL Treasurer.

At the AL-Con in 2018 there were a total of 2 proposals. All were adopted:

- Nova
- Binocular Master Observer Award

Additionally, these certifications were adopted:

- Astronomy Before the Telescope Observing Certificate
- TESS NASA Observing Challenge Certificate
- InSight NASA Observing Challenge Certificate
- Observing Program Mentor Certificate
- The Citizen Science Program, including:
 - Certificates for those projects requiring active participation but no direct observing.
 - Certificates for those projects requiring observing beyond existing AL Observing Programs.

These proposed Observing Programs for consideration by Council at the AL-Con in 2019 were reviewed by Observing Program Directors. A summary of those reviews and recommendations was submitted to the President, John Goss and to the Council via email. The list of known

Observing Program Proposals for review at the 2019 AL-Con are:

- Multiple Star Observing Program
- Spectroscopy Observing Program
- Mercury Transit 2019 Special Observing Award

New Coordinators were appointed for these observing programs in the past year:

- Double Star Observing Program John Schuchardt
- Galileo Observing Program Rodney Rynearson
- Mars Observing Program Mark Simonson
- Radio Astronomy Observing Program Steve Boerner
- Solar System Observing Program Aaron Clevenson (temporary)
- Galaxy Groups and Clusters Observing Program Aaron Clevenson (temporary)
- Local Galaxy Groups and Clusters Observing Program Aaron Clevenson (temporary)

Observing Programs by activity level:

- Those programs with an average of over 50 certificates in the past year:
 - Outreach (273 awards in 2018)
- Those programs with an average between 25 and 49 in the past year:
 - o Binocular Messier (29 awards in 2018)
 - o Messier (25 awards in 2018)
- Those programs with an average between 10 and 24 in the past year:
 - o Caldwell
 - Comet Hunter
 - Constellation Hunter Northern Skies
 - o Double Star
 - Herschel 400
 - o Lunar
 - o Lunar II
 - Master Observer
 - Solar System
 - Stellar Evolution
- Those programs with an average between 5 and 9 in the past year:
 - o Advanced Binocular Double Star
 - Advanced Observer
 - Beyond Polaris
 - Binocular Double Star
 - Carbon Star

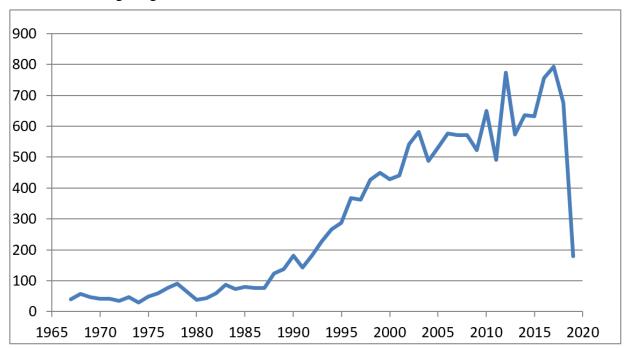
- Deep Sky Binocular
- Flat Galaxies
- o Galileo
- o Globular Clusters
- o Observer
- NASA TESS Observing Challenge
- NASA InSight Observing Challenge
- o NOVA
- o Planetary Nebula
- Radio Astronomy
- o Sketching
- Sky Puppy
- o Two in the View
- o Urban
- Those programs with an average of 4 or less in the past year:
 - o Active Galactic Nuclei
 - o Analemma
 - Arp Northern
 - o Arp Southern
 - o Asterism
 - o Asteroid
 - Astronomy Before the Telescope
 - o Binocular Master Observer
 - o Bright Nebula
 - Constellation Hunter Southern Skies
 - o Dark Nebulae
 - Dark Sky Advocate
 - Earth Orbiting Satellites
 - o Galaxy Groups and Clusters
 - o Galileo's TOES
 - o Hydrogen-Alpha
 - o Local Galaxy Group
 - o Mars
 - o Master Observer Silver
 - Master Observer Gold
 - o Master Observer Platinum
 - o NEO
 - o Occultation
 - Open Clusters
 - Southern Skies Binocular

- Southern Skies Telescope
- o Sunspotter
- o Universe Sampler
- Variable Stars

Accomplishments for the Overall AL Observing Program:

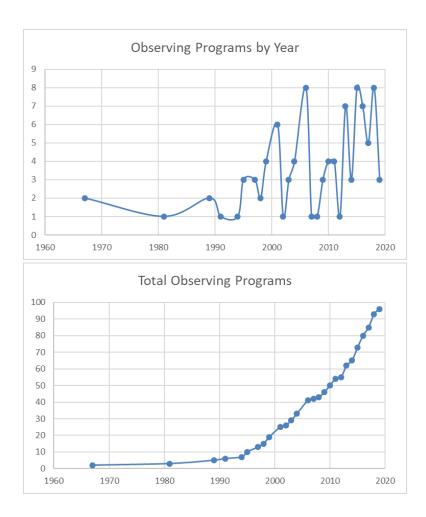
- Seven new Observing Program Coordinators were appointed to existing Programs.
- One additional NASA Observing Challenge was identified and introduced to the membership (Apollo 50 years).
- These Observing Program Manuals have been reproduced:
 - Carbon Star
 - Math for Amateur Astronomers
 - o Planetary Nebula
 - Sky Puppies
 - Visual Observing Journals

Overall Observing Program Growth:



There were no issues requiring the attention of the Observing Program Directors. Issues were minor and handled well by the Observing Program Coordinators. None were escalated to the AL President. All have been resolved.

Since the introduction of our first Observing Program; Messier, the Observing Program Division has grown significantly. It currently offers 96 different certificates to our members.



At this time four coordinators have more than three Observing Programs;

- Aaron Clevenson has the Master Observer Progression, NASA Observing Challenges, and five Observing Programs;
- Al Lamperti, Cliff Mygatt, and Scott Kranz have 4 each.
- Three is the best practice maximum that we follow. We have a total of 31 different coordinators at this time coordinating 67 Observing Programs and Awards. There are a total of 92 different certificates (by level and program) issued through the Astronomical League.

Respectfully submitted,

Aaron B. Clevenson

Clifton B. Mygatt, Jr

Al Lamperti

W. Maynard Pittendreigh

National Observing Program Directors

June 2, 2019

Observing Program Name:

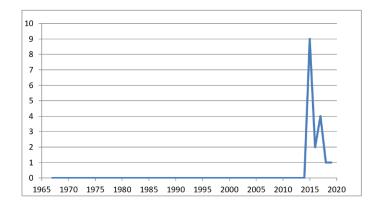
Coordinator Name:

Pins on hand: 83
Certificates issued this year: 1
Certificates issued ever: 17

Certificates Awarded:

Active Galactic Nuclei

Al Lamperti



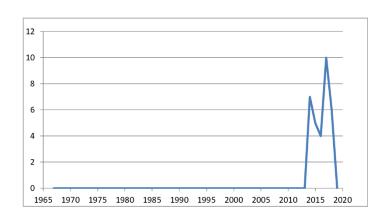
Observing Program Name:

Coordinator Name:

Pins on hand: 72 Certificates issued this year: 8 Certificates issued ever: 26

Certificates Awarded:

Advanced Binocular Double Star Bob Kerr



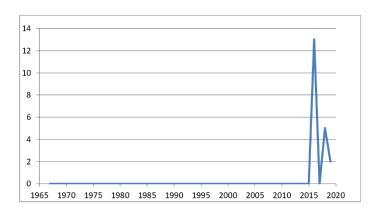
Observing Program Name:

Coordinator Name:

Pins on hand: 53
Certificates issued this year: 5
Certificates issued ever: 20

Certificates Award:

Advanced Observer Aaron Clevenson



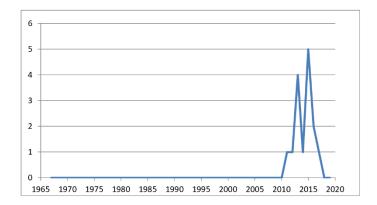
Observing Program Name: Coordinator Name:

Pins on hand: 79 Certificates issued this year: 0 Certificates issued ever: 15

Certificates Awarded:

Analemma

Douglas Smith



Observing Program Name:

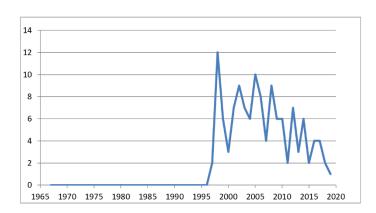
Coordinator Name:

Pins on hand: 68 Certificates issued this year: 2 Certificates issued ever: 126

Certificates Awarded:

Arp - Northern Skies

Al Lamperti



Observing Program Name:

Coordinator Name:

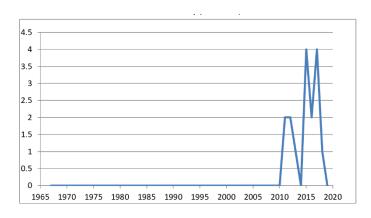
Pins on hand: 73 Certificates issued this year: 1

Certificates issued ever: 16

Certificates Awarded:

Arp – Southern Skies

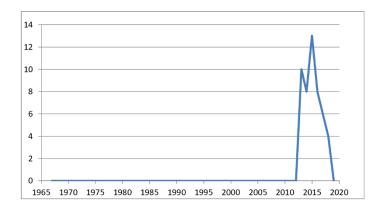
Al Lamperti



Observing Program Name: Asterism
Coordinator Name: Troy Stratton

Pins on hand: 41
Certificates issued this year: 4
Certificates issued ever: 49

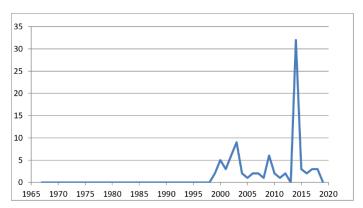
Certificates Awarded:



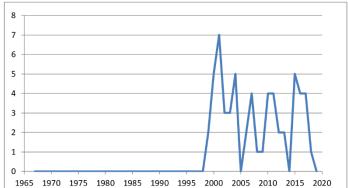
Observing Program Name: Asteroid
Coordinator Name: John Goar

	Regular	Gold
Pins on hand:		30
Certificates issued this year:	3	87
Certificates issued ever:	1	59

Asteroid Regular Certificates Awarded:



Asteroid Gold Certificates Awarded:



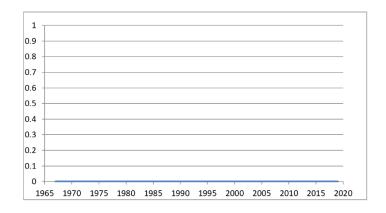
Coordinator Name:

Astronomy Before the Telescope

W. Maynard Pittendreigh

Certificates issued this year: 0
Certificates issued ever: 0

Certificates Awarded:



Observing Program Name:

Coordinator Name:

Beyond Polaris

W. Maynard Pittendreigh

Pins on hand: 64
Certificates issued this year: 30
Certificates issued ever: 9

Certificates Awarded:

Observing Program Name:

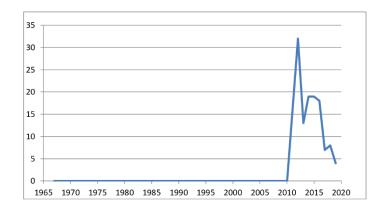
Coordinator Name:

Binocular Double Star

Bob Kerr

pins on hand: 43
Certificates issued this year: 8
Certificates issued ever: 136

Certificates Awarded:



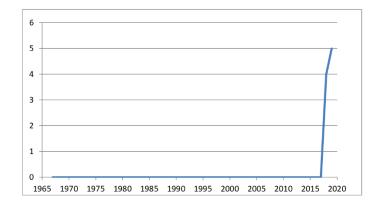
Coordinator Name:

pins on hand: 84
Certificates issued this year: 4
Certificates issued ever: 9

Certificates Awarded:

Binocular Master Observer

Aaron Clevenson



Observing Program Name:

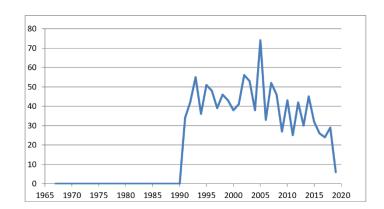
Coordinator Name:

Pins on hand: 41 Certificates issued this year: 29 Certificates issued ever: 1154

Certificates Awarded:

Binocular Messier

John Goar



Observing Program Name:

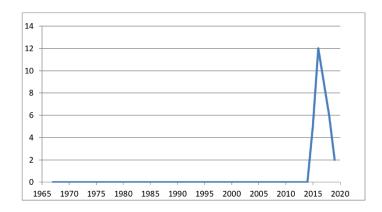
Coordinator Name:

Number of pins on hand: 55 Certificates issued this year: 6 Certificates issued ever: 36

Certificates Awarded:

Binocular Variable Star

Robert Togni

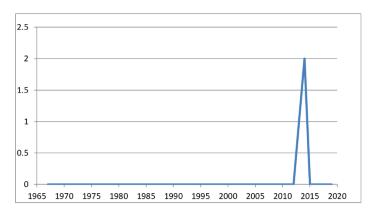


Observing Program Name: Bright Nebulae

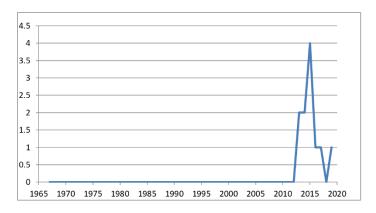
Coordinator Name: Bob Scott

	Regular	Advanced
Pins on hand:		79
Certificates issued this year:	0	0
Certificates issued ever:	11	0

Bright Nebula Regular Certificates Awarded:



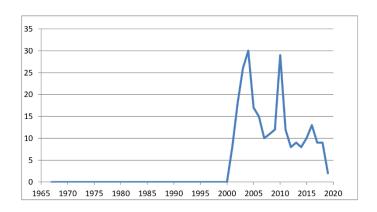
Bright Nebula Advanced Certificates Awarded:



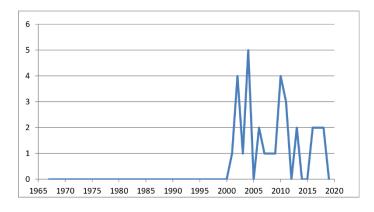
Observing Program Name: Caldwell
Coordinator Name: Sue Rose

	Silver	Gold
Pins on hand:	25	62
Certificates issued this year:	9	2
Certificates issued ever:	256	31

Caldwell Silver Certificates Awarded:



Caldwell Gold Certificates Awarded:



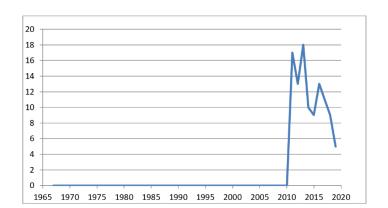
Carbon Star

Robert Togni

Observing Program Name: Coordinator Name:

Pins on hand: 7
Certificates issued this year: 6
Certificates issued ever: 34
(2 duplicate #'s 46 & 47)

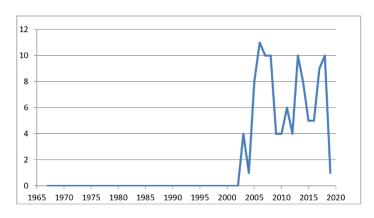
Certificates Awarded:



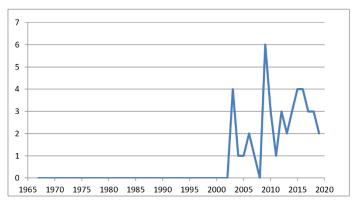
Observing Program Name: Comet
Coordinator Name: Scott Kranz

	Silver	Gold
Pins on hand:		72
Certificates issued this year:	10	3
Certificates issued ever:	110	43

Comet Silver Certificates Awarded:



Comet Gold Certificates Awarded:

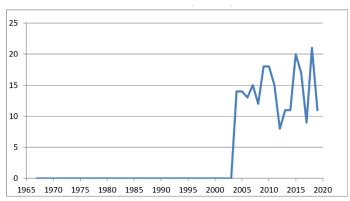


Observing Program Name: Coordinator Name:

Pins on hand: 89 Certificates issued this year: 21 Certificates issued ever: 227

Certificates Awarded:

Constellation Hunter – Northern Skies Cliff Mygatt



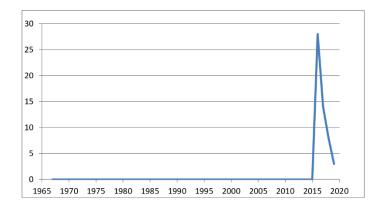
Coordinator Name:

Pins on hand: 76
Certificates issued this year: 0
Certificates issued ever: 11

Certificates Awarded:

Constellation Hunter – Southern Skies

Cliff Mygatt



Observing Program Name:

Coordinator Name:

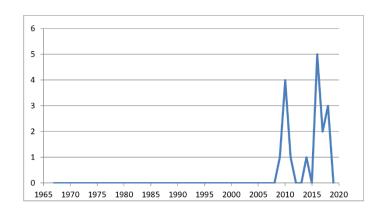
Pins on hand: 81

Certificates issued this year: 3 Certificates issued ever: 17

Certificates Awarded:

Dark Sky Advocate

John Goss



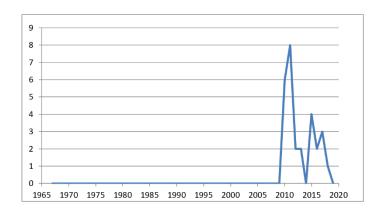
Observing Program Name:

Coordinator Name:

Pins on hand: 64 Certificates issued this year: 1 Certificates issued ever: 28

Certificates Awarded:

Dark Nebulae Kathy Machin



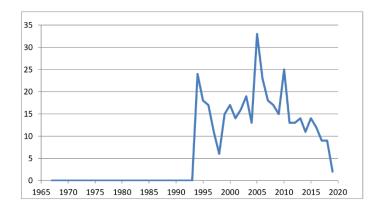
Observing Program Name: Coordinator Name:

Pins on hand: 64 Certificates issued this year: 9 Certificates issued ever: 398

Certificates Awarded:

Deep Sky Binocular

Cindy La Russa

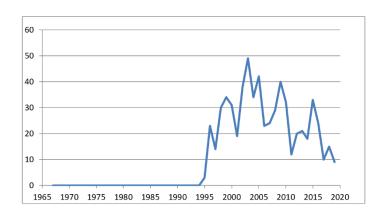


Observing Program Name: Coordinator Name:

Pins on hand: 47 Certificates issued this year: 15 Certificates issued ever: 627

Certificates Awarded:

Double StarJon Schuchardt

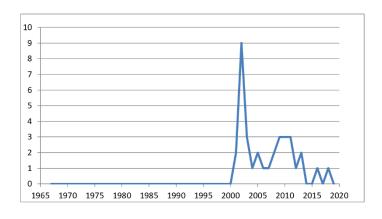


Observing Program Name: Coordinator Name:

Pins on hand: >100 Certificates issued this year: 1 Certificates issued ever: 35

Certificates Awarded:

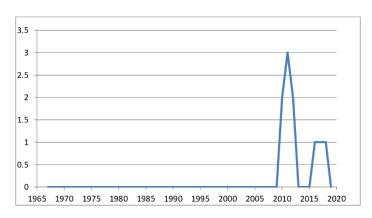
Earth Orbiting Satellite Tom DeClue



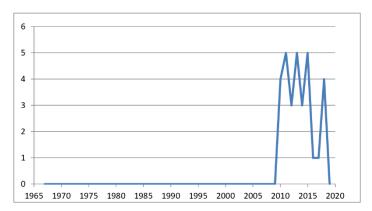
Observing Program Name: Flat Galaxy
Coordinator Name: Al Lamperti

Regular	Honorary
	58
1	4
10	31
	1

Regular Certificates Awarded:



Honorary Certificates Awarded:



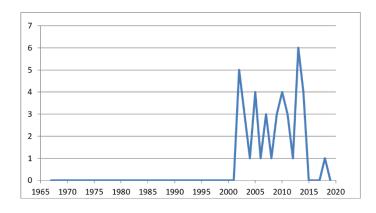
Observing Program Name: Coordinator Name:

Number of pins on hand: 50 (Guess)

Certificates issued this year: 1 Certificates issued ever: 40

Certificates Awarded:

Galaxy Groups and Clusters Aaron Clevenson



Galileo

Binocular

Coordinator Name:

Rodney Rynearson

Pins on hand:	

46

Regular

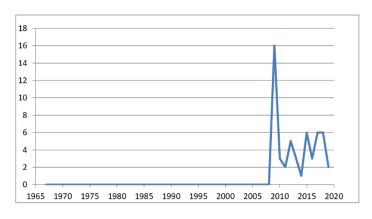
Certificates issued this year:

4

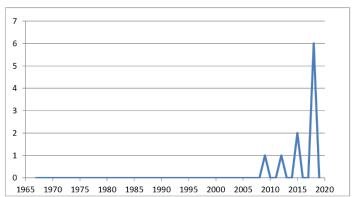
Certificates issued ever:

33

Binocular Certificates Awarded:



Regular Certificates Awarded:



Observing Program Name:

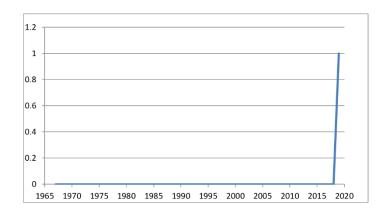
Aaron Clevenson

Galileo's T.O.E.S.

Coordinator Name:

Certificates issued this year: 0 Certificates issued ever: 1

Certificates Awarded:



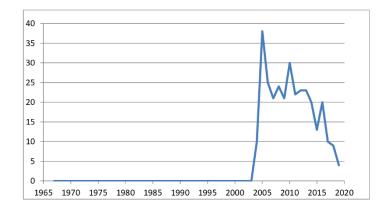
Coordinator Name:

Pins on hand: 203 Certificates issued this year: 9 Certificates issued ever: 333

Certificates Awarded:

Globular Cluster

Bob Kerr



Observing Program Name:

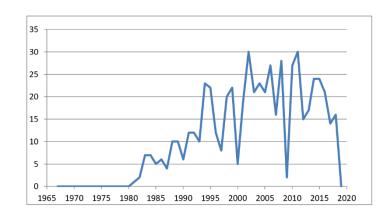
Coordinator Name:

Pins on hand: 12 Certificates issued this year: 16 Certificates issued ever: 579

Certificates Awarded:

Herschel 400

Jack Estes



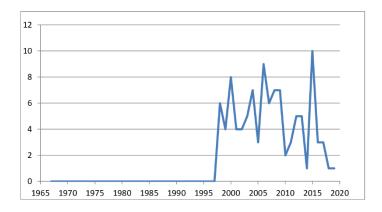
Observing Program Name: Coordinator Name:

Coordinator reality.

Pins on hand: 102 Certificates issued this year: 1 Certificates issued ever: 104

Certificates Awarded:

Herschel IICandace Pratt



Herschel Society

4

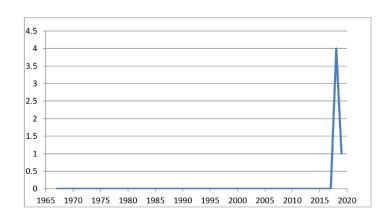
Coordinator Name:

Cliff Mygatt

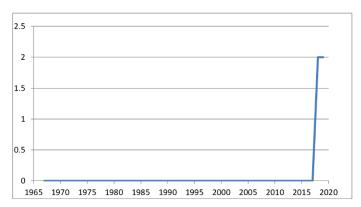
Silver	Gold
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Certificates issued this year: 4
Certificates issued ever: 5

Silver Certificates Awarded:



Gold Certificates Awarded:



Observing Program Name:

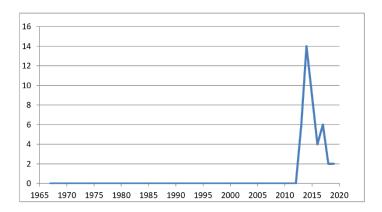
Coordinator Name:

Hydrogen-Alpha Solar

Mark Simonson

Pins on hand: 51 Certificates issued this year: 2 Certificates issued ever: 43

Certificates Awarded:



Coordinator Name:

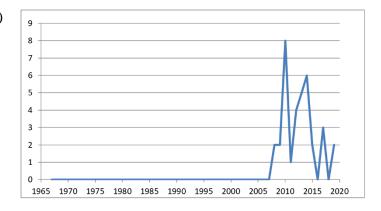
Local Galaxy Groups

Aaron Clevenson

55 (guess) Pins on hand:

Certificates issued this year: 0 Certificates issued ever: 35

Certificates Awarded:



Observing Program Name:

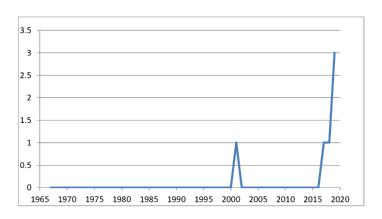
Coordinator Name:

Lunar

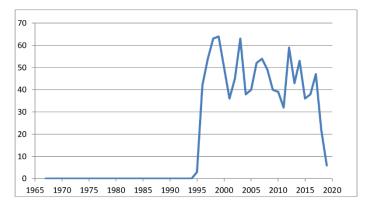
Nina Chevalier

	Binocular	Regular
Pins on hand:		26
Certificates issued this year:	1	22
Certificates issued ever:	6	1068

Binocular Certificates Awarded:



Regular Certificates Awarded:

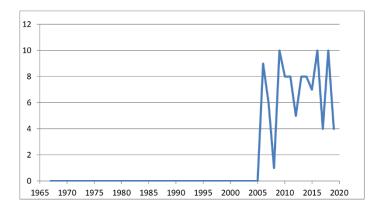


Observing Program Name: Coordinator Name:

Pins on hand: 99 Certificates issued this year: 10 Certificates issued ever: 98

Certificates Awarded:

Lunar II Cliff Mygatt

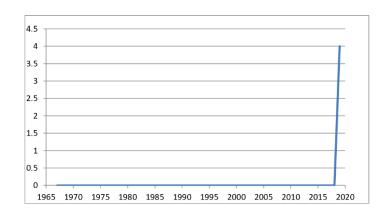


Observing Program Name: Coordinator Name:

Pins on hand: 90 Certificates issued this year: 4 Certificates issued ever: 4

Certificates Awarded:

Mars Mark Simonson



Observing Program Name: Master Observer

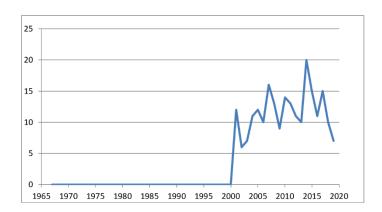
Master Observer – Silver Master Observer – Gold Master Observer – Platinum

Coordinator Name:

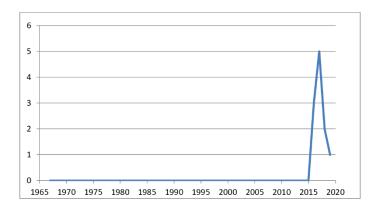
Aaron Cievenson	Aaron	Clevenson
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	Master	Silver	Gold	Platinum
Pins on hand:	66	80	86	89
Certificates issued this year:	10	2	0	1
Certificates issued ever:	222	11	6	3

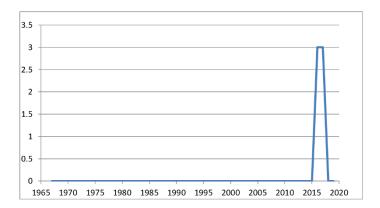
Master Observer Certificates Awarded:



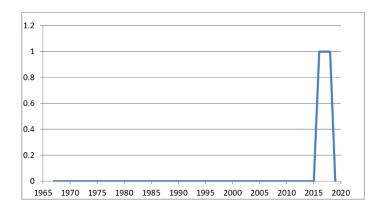
Master Observer – Silver Certificates Awarded:



Gold Master Observer Certificates Awarded:



Platinum Master Observer Certificates Awarded:



Observing Program Name: Messier Coordinator Name: Scott Kranz

Regular Number of pins on hand: Number of certificates issued this year: Total number of certificates issued ever: 2529

Regular	Certificates	Awarded:

120	
100 -	
80 -	
60 -	
40 -	7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
20 -	-W V
0 - 19	65 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020

Honorary

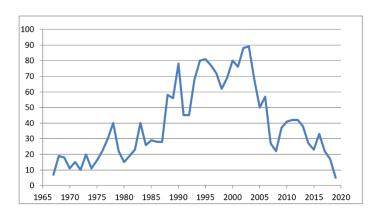
20

17

2124

8

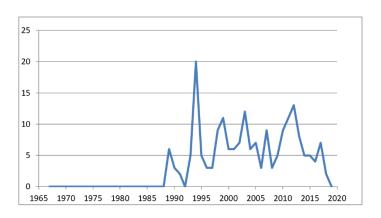
Honorary Certificates Awarded:



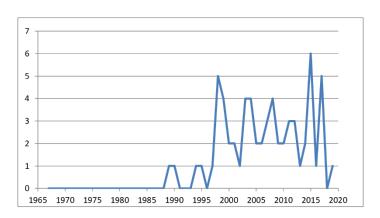
Observing Program Name: Meteor
Coordinator Name: Scott Kranz

Regular Honorary
Number of pins on hand: 26
Number of certificates issued this year: 2 0
Total number of certificates issued ever: 195 64

Regular Certificates Awarded:



Honorary Certificates Awarded:

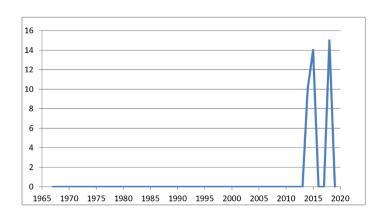


Observing Program Name: Coordinator Name:

Siding Spring (2013)	9
Rosetta (2013)	1
New Horizons (2014)	14
TESS (2018)	8
InSight (2018)	7
Apollo 50 th (2019)	0

Certificates Awarded:

NASA Observing Challenges Aaron Clevenson



Observing Program Name: Coordinator Name:

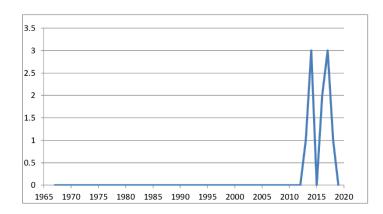
NEO

Dolores Hill and Carl Hergenrother

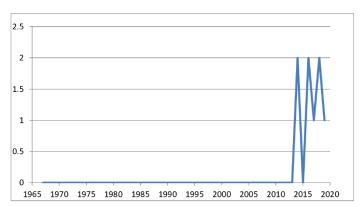
Advanced
Tauva

Number of pins on hand:		177
Certificates issued this year:	1	2
Certificates issued ever:	10	8

Intermediate Certificates Awarded:



Advanced Certificates Awarded:



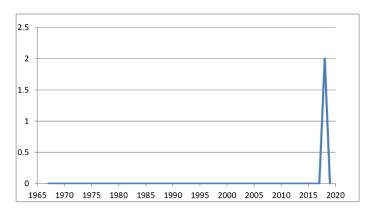
Coordinator Name:

Nova

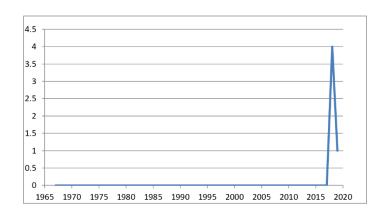
Raymond Hill

	Silver	Gold
Number of pins on hand:		177
Certificates issued this year:	2	4
Certificates issued ever:	2	5

Silver Certificates Awarded:



Gold Certificates Awarded:

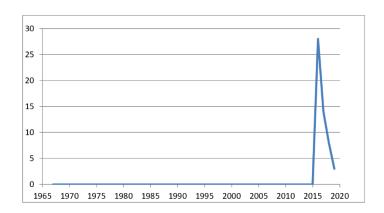


Observing Program Name: Coordinator Name:

pins on hand: 35 Certificates issued this year: 8 Certificates issued ever: 53

Certificates Awarded:

Observer Aaron Clevenson

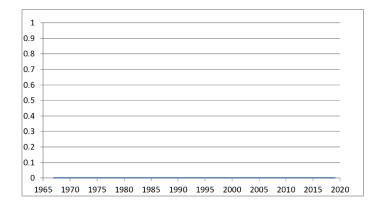


Observing Program Name: Coordinator Name:

Occultation Steve Conard

Pins on hand: 0 Certificates issued this year: 0 Certificates issued ever:

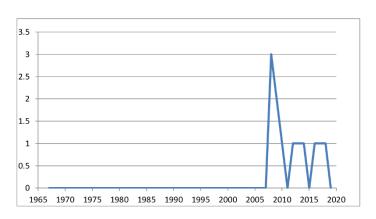
Certificates Awarded:



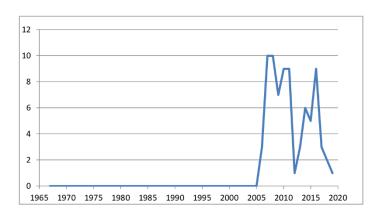
Observing Program Name: Open Cluster Coordinator Name: **Cliff Mygatt**

Basic Advanced 97 Pins on hand: Certificates issued this year: 1 2 Certificates issued ever: 12 78

Basic Certificates Awarded:



Advanced Certificates Awarded:



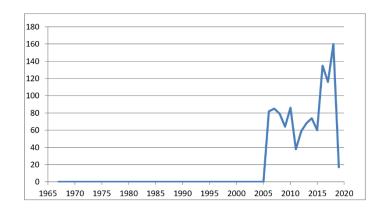
Outreach

Coordinator Name:

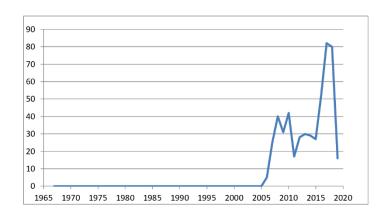
W. Maynard Pittendreigh

	Honorary	Outreach	Stellar	Master
Pins on hand:			116	54
Certificates issued this year:	0	160	80	33
Certificates issued ever:	4	1123	504	259

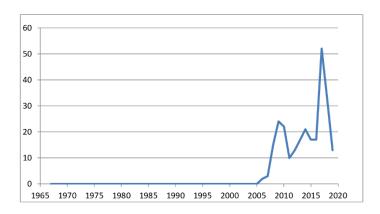
Outreach Certificates Awarded:



Stellar Certificates Awarded:



Master Certificates Awarded:

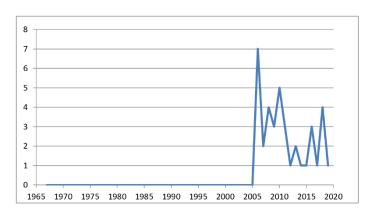


Planetary Nebulae (Northern and Southern)

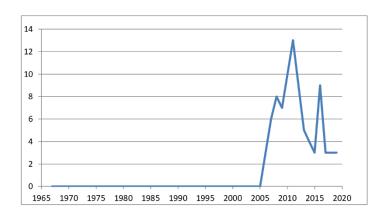
Coordinator Name: Ted Forte

	Basic	Advanced
Pins on hand:		209
Certificates issued this year:	4	3
Certificates issued ever:	38	86

Basic Certificates Awarded:



Advanced Certificates Awarded:

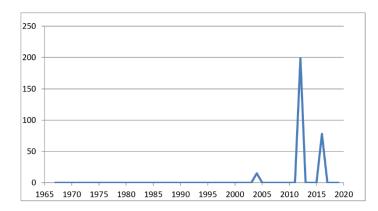


Observing Program Name: Coordinator Name:

Pins on hand: 0
Certificates issued this year: 0
Certificates issued ever: 292

Certificates Awarded:

Planetary Transit Steve Conard



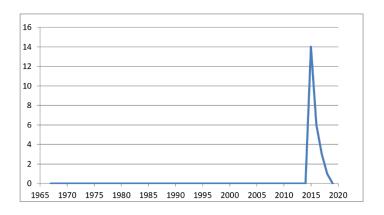
Observing Program Name: Coordinator Name:

Radio Astronomy

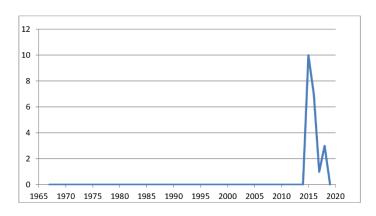
Steve Boerner

	Bronze	Silver	Gold
Pins on hand:		73	65
Certificates issued this year:	1	3	1
Certificates issued ever:	24	21	10

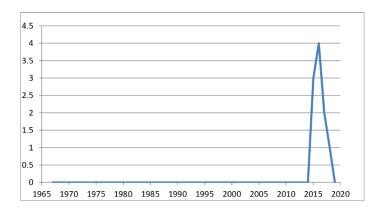
Bronze Certificates Awarded:



Silver Certificates Awarded:



Gold Certificates Awarded:

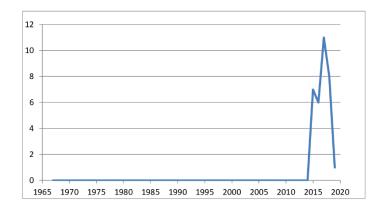


Coordinator Name:

Sketching Cindy L. Krach

Pins on hand: 55
Certificates issued this year: 8
Certificates issued ever: 33

Certificates Awarded:



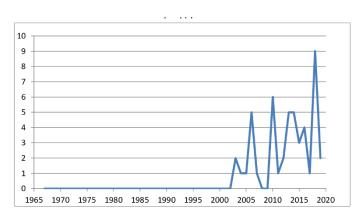
Observing Program Name: Sky Puppies
Coordinator Name: Aaron Clevenson

Pins on hand: 35 Certificates issued this year: 9 Certificates issued ever: 48

Highlights: We have entered into a relationship with NASA through the

NSSEC. We are making the manuals, workbooks, and pins Available to anyone and the costs are covered by NSSEC.

Certificates Awarded:



Coordinator Name:

Solar Eclipse 2018

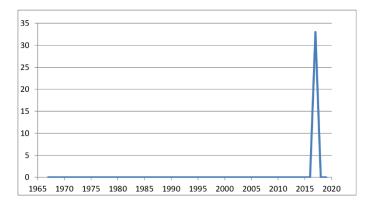
Aaron Clevenson

Pins on hand: 0 Certificates issued this year:

Certificates issued ever:

0 33

Certificates Awarded:



Observing Program Name:

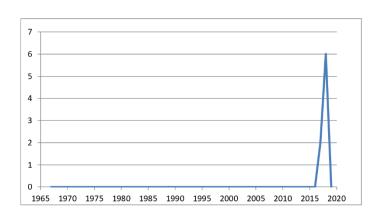
Coordinator Name:

Solar System

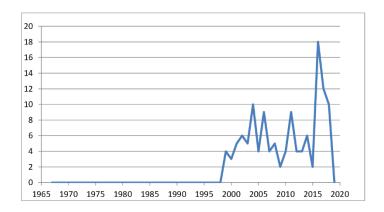
Aaron Clevenson

	Binocular	Regular
Pins on hand:		0
Certificates issued this year:	6	10
Certificates issued ever:	8	22

Binocular Certificates Awarded:



Regular Certificates Awarded:



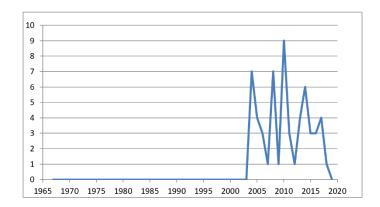
Coordinator Name:

Pins on hand: 34 Certificates issued this year: 1 Certificates issued ever: 57

Certificates Awarded:

Southern Skies Telescopic

Kathy Machin



Observing Program Name:

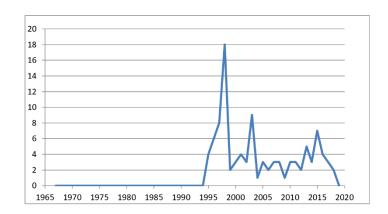
Coordinator Name:

Pins on hand: 90 Certificates issued this year: 2 Certificates issued ever: 102

Certificates Awarded:

Southern Skies Binocular

Cindy La Russa



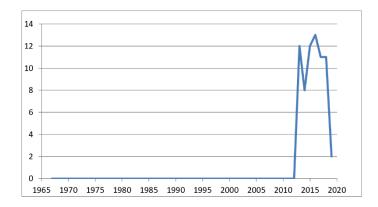
Observing Program Name:

Coordinator Name:

Pins on hand: 33 Certificates issued this year: 11 Certificates issued ever: 69

Certificates Awarded:

Stellar EvolutionBill Pellerin

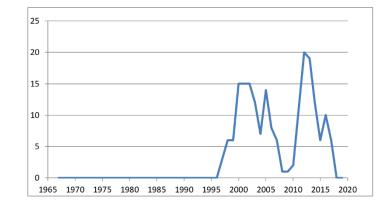


Coordinator Name:

Sunspotter Scott Kranz

Pins on hand: 96
Certificates issued this year: 0
Certificates issued ever: 195

Certificates Awarded:



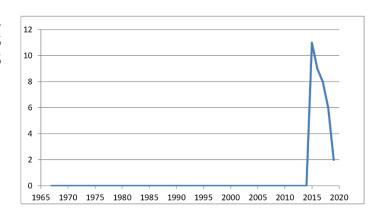
Observing Program Name:

Coordinator Name:

Pins on hand: 54
Certificates issued this year: 6
Certificates issued ever: 36

Certificates Awarded:

Two in the View Bob Scott



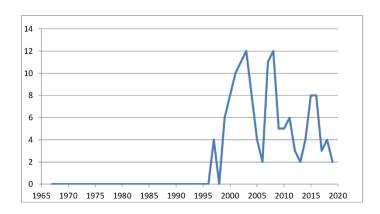
Observing Program Name:

Coordinator Name:

Pins on hand: 53 Certificates issued this year: 4 Certificates issued ever: 138

Certificates Awarded:

Universe Sampler Amelia Goldberg



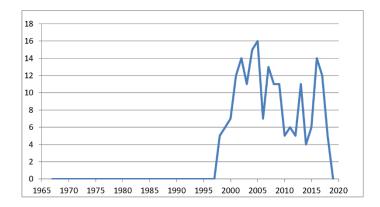
Coordinator Name:

Pins on hand: 87
Certificates issued this year: 5
Certificates issued ever: 196

Certificates Awarded:

Urban

Terry N. Trees



Observing Program Name:

Coordinator Name:

Pins on hand: 60 Certificates issued this year: 4 Certificates issued ever: 33

Certificates Awarded:

Variable Star Robert Togni

