

Global Sky Partners

Networking People and Telescopes

Lisa Storrie-Lombardi
Observatory Director

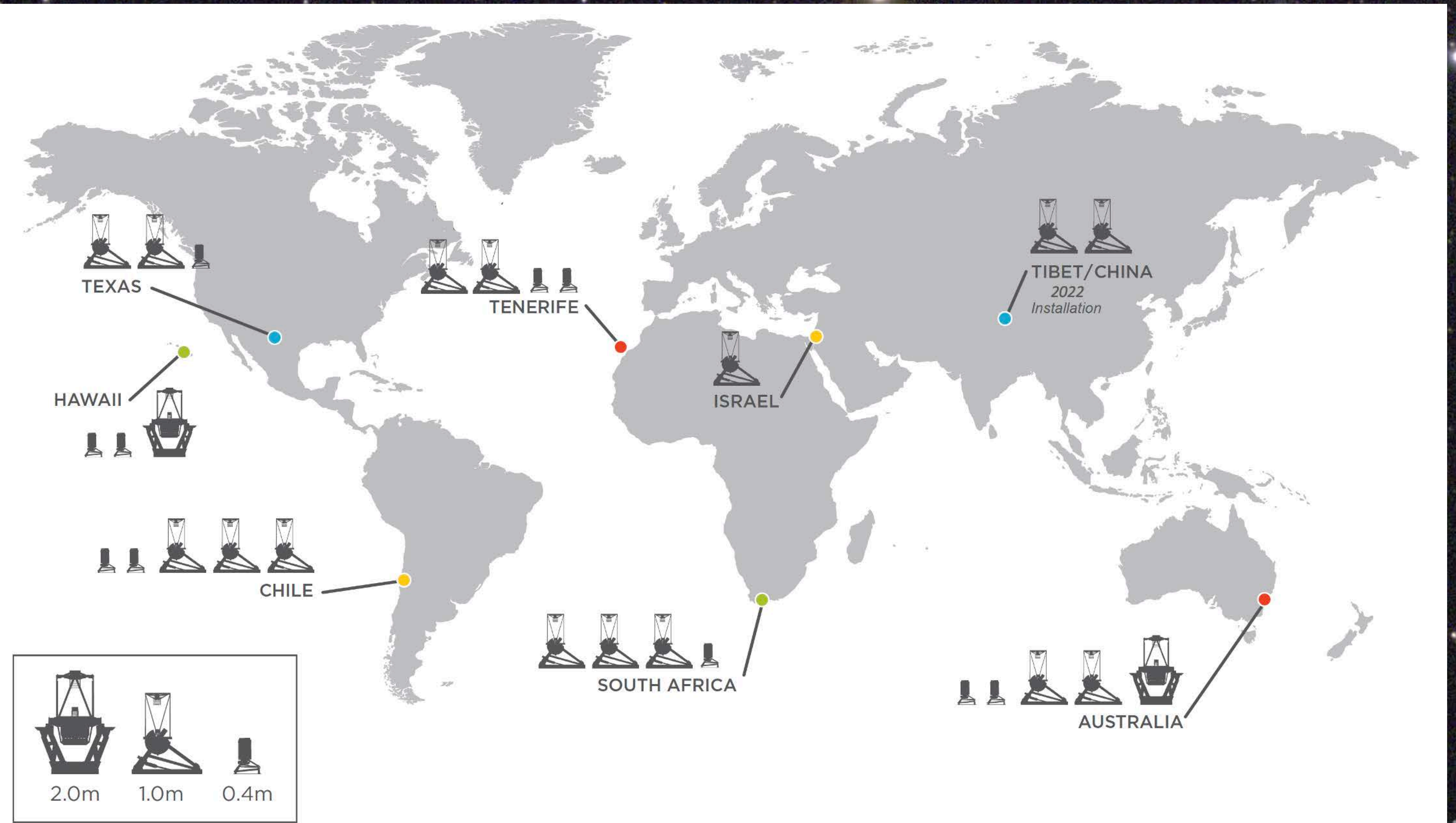
KITP Teachers' Conference
March 26, 2022

Las Cumbres
Observatory



Our Global Telescope Network

- ★ twenty-five telescopes
- ★ seven sites around the world
- ★ working together as a single instrument



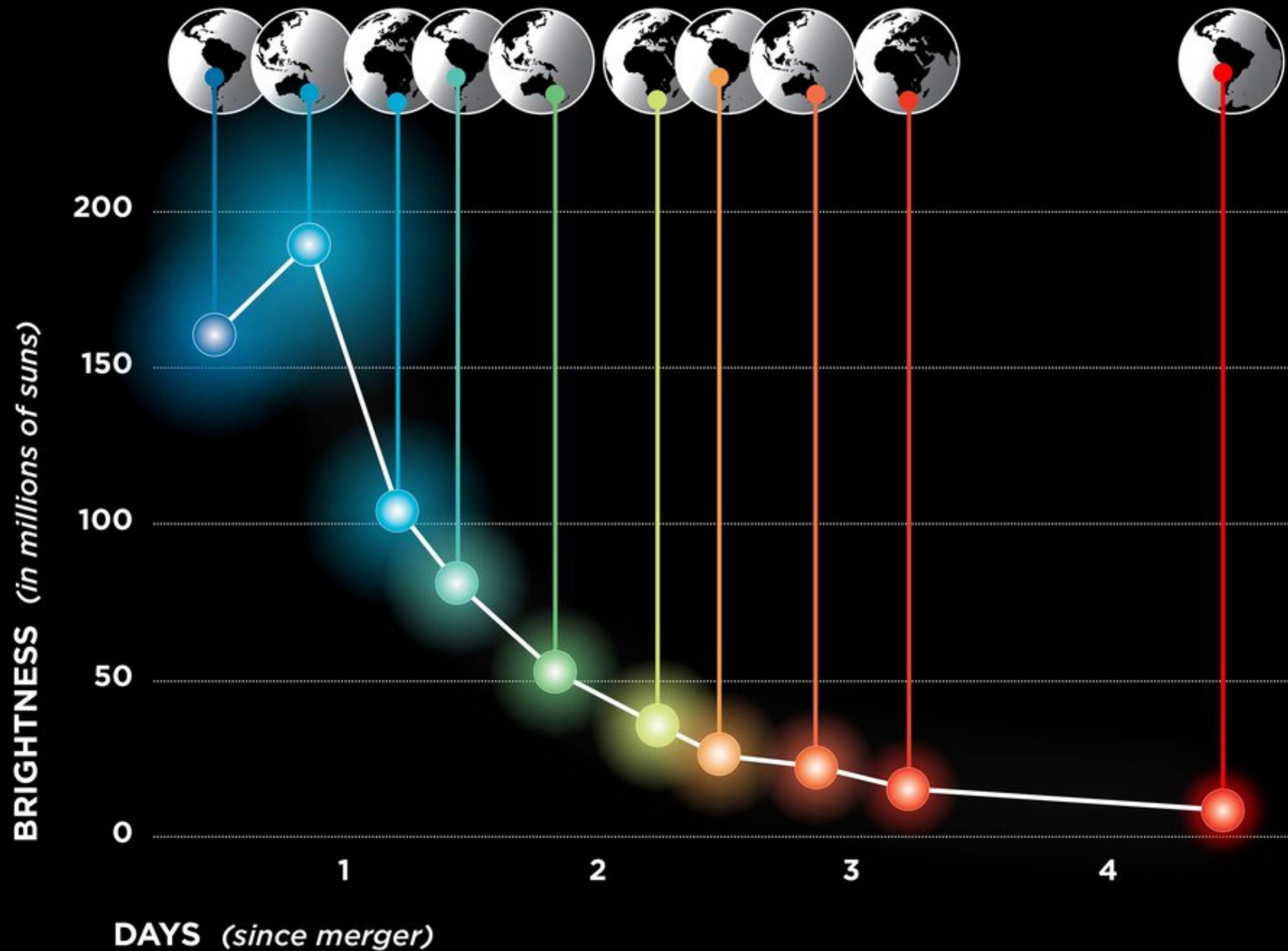
LCO is unique

fully robotic
operations

dynamic
observation
scheduling

**Siding Spring Observatory
New South Wales, Australia**

Networked
small
telescopes
are powerful



Our Mission

Advance our understanding
of the universe through
science and **education**

Education is part of our DNA

Goals: Inspire – Innovate – Global Impact

Inspire students around the world to engage in astronomy and science endeavors

Support innovative programs that use LCO telescopes in new and unique ways

Reach a global audience, including regions that are typically underserved

Global Sky Partners

30 partner organizations
that manage their own
education projects

LCO provides over
1300 hours of telescope time

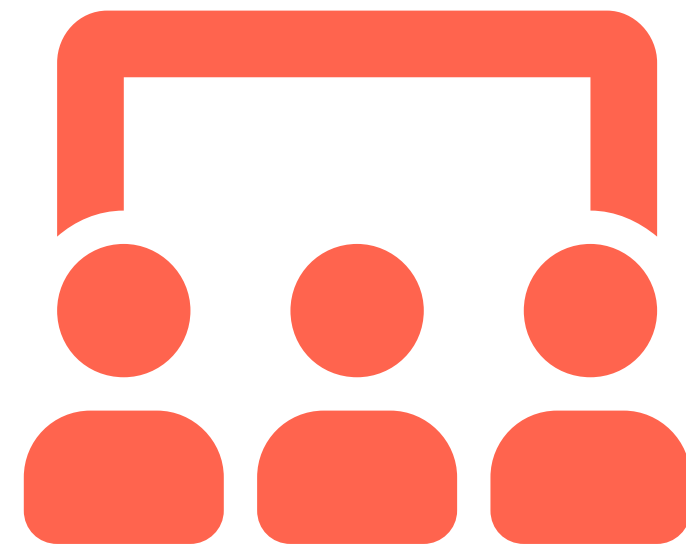
LCO provides ...



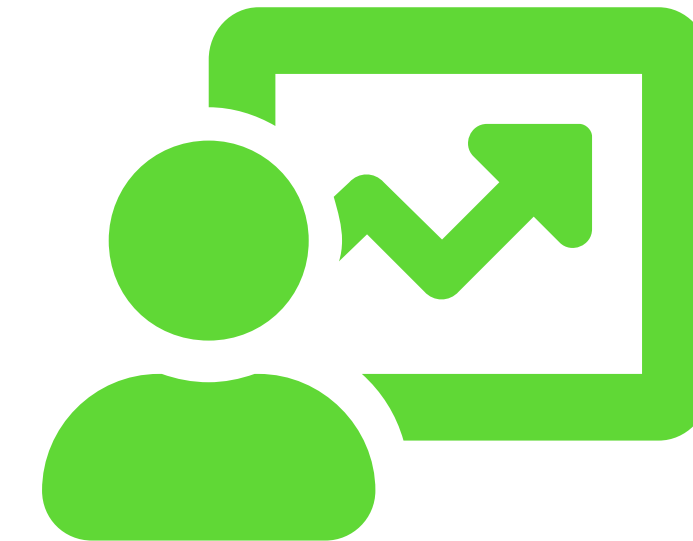
Topics



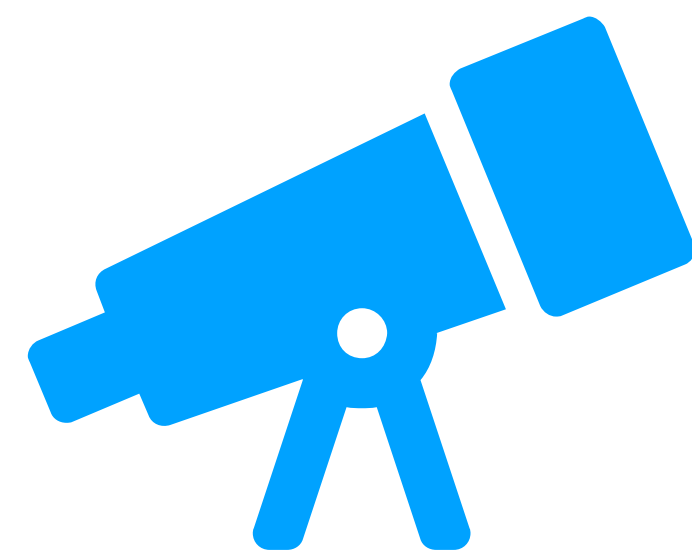
Citizen science



Teacher training



Student Research



Observing Campaigns



Artistic & Inclusive
Outreach

Partner Showcase

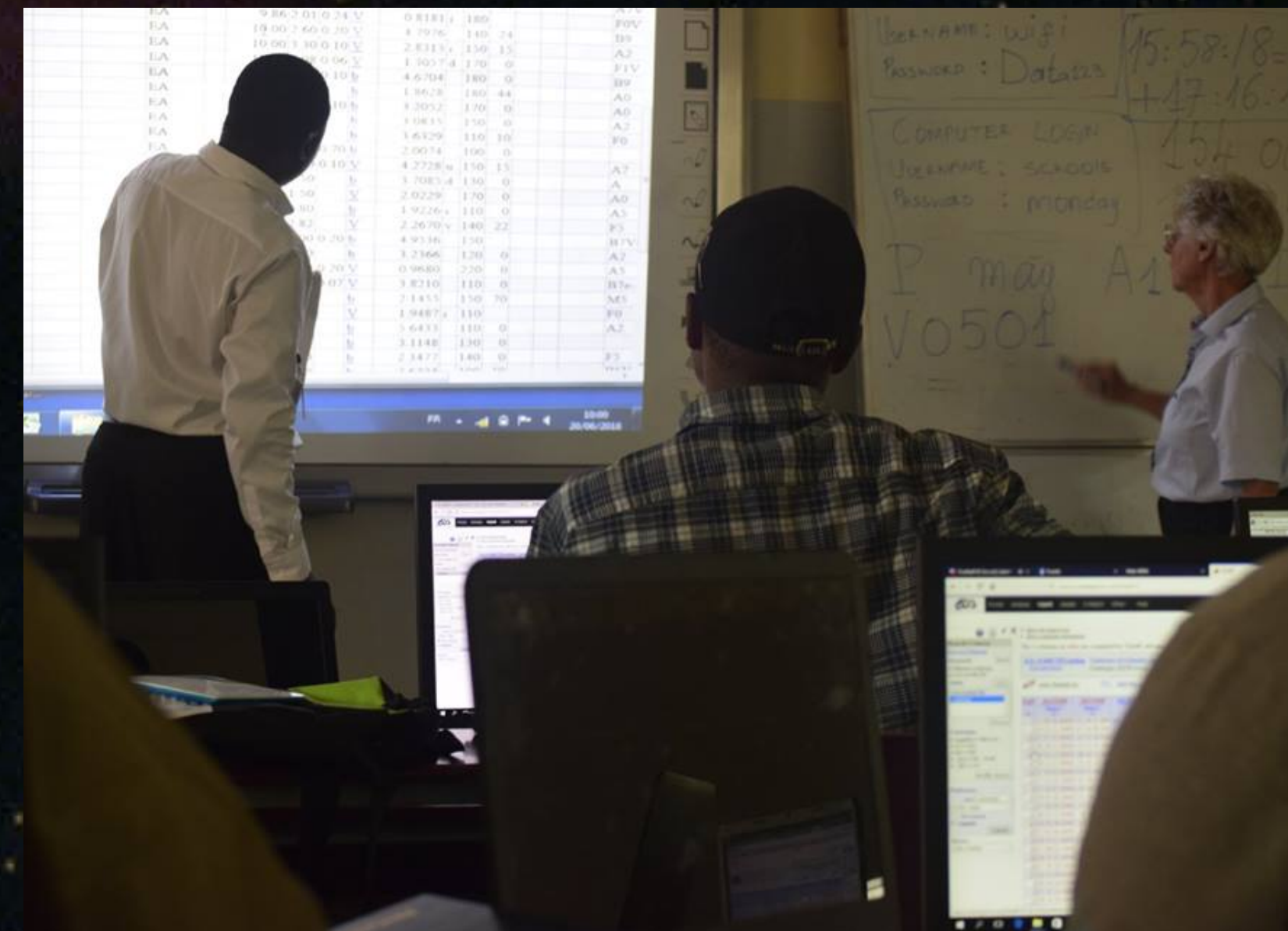
AstroLab



Location Ethiopia, Nigeria, South Africa, Zambia, Nepal and Peru

Demographic Postgraduate students and faculty

Size 45





Our Solar Siblings

Location	Australia
Demographic	High school teachers
Size	250



WHERE'S THE FLUX?

Demographic Public (via Reddit)

Size ~7000

KIC 8462852 [Join](#)
r/KIC8462852

Posts Wiki FAQ

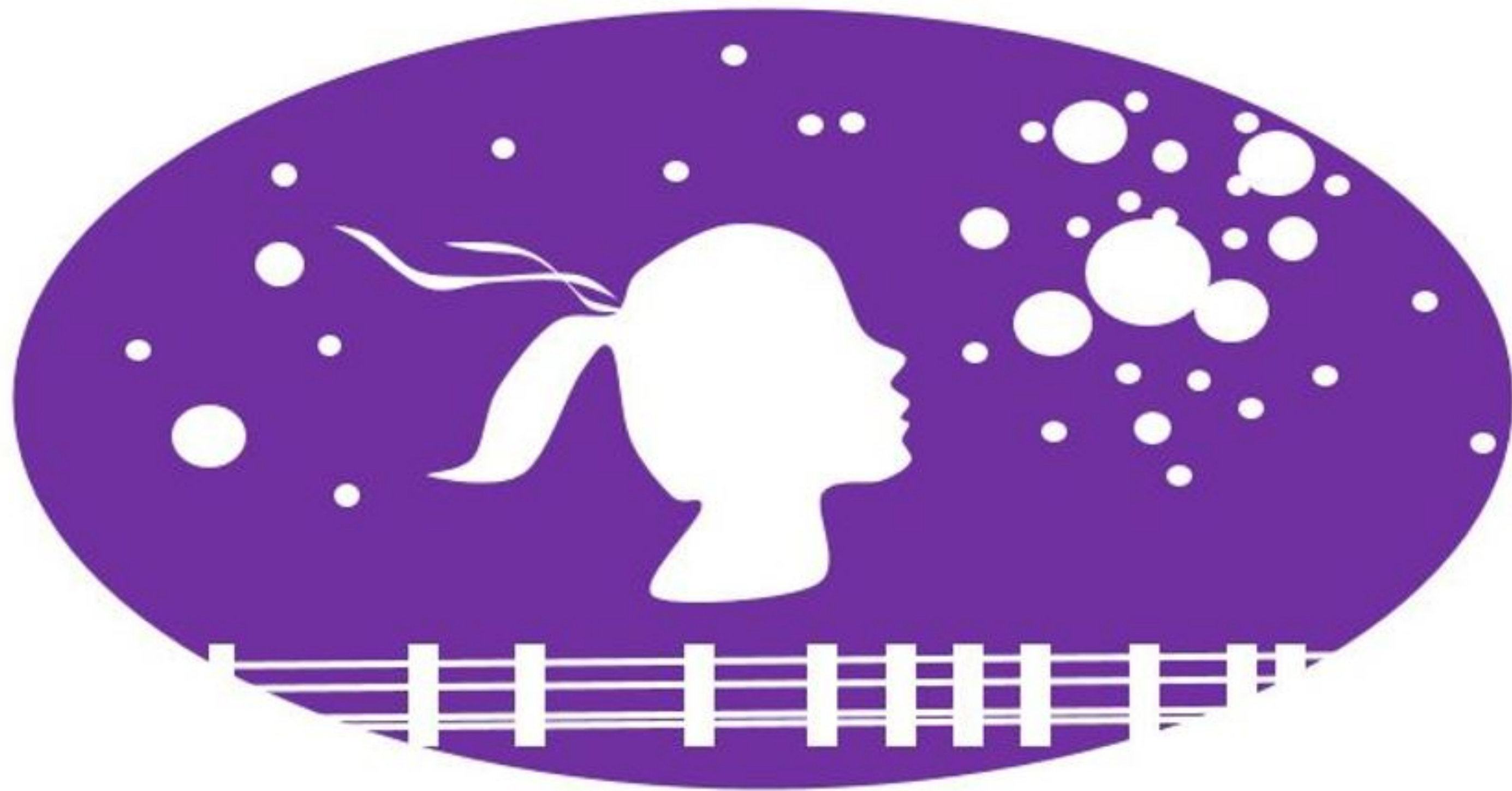
Hot New Top ...

PINNED BY MODERATORS

8 Posted by u/Crimfants 1 year ago
Spring 2020 Photometry post - what is this star up to?
46 Comments Share Save ...

16 Posted by u/Crimfants 6 months ago
Fall 2020 Photometry Thread
18 Comments Share Save ...

20 Question Posted by u/mrbighats 6 days ago
Will the James Webb Telescope shed any new verify or deny current theories on Tabby?
5 Comments Share Save ...

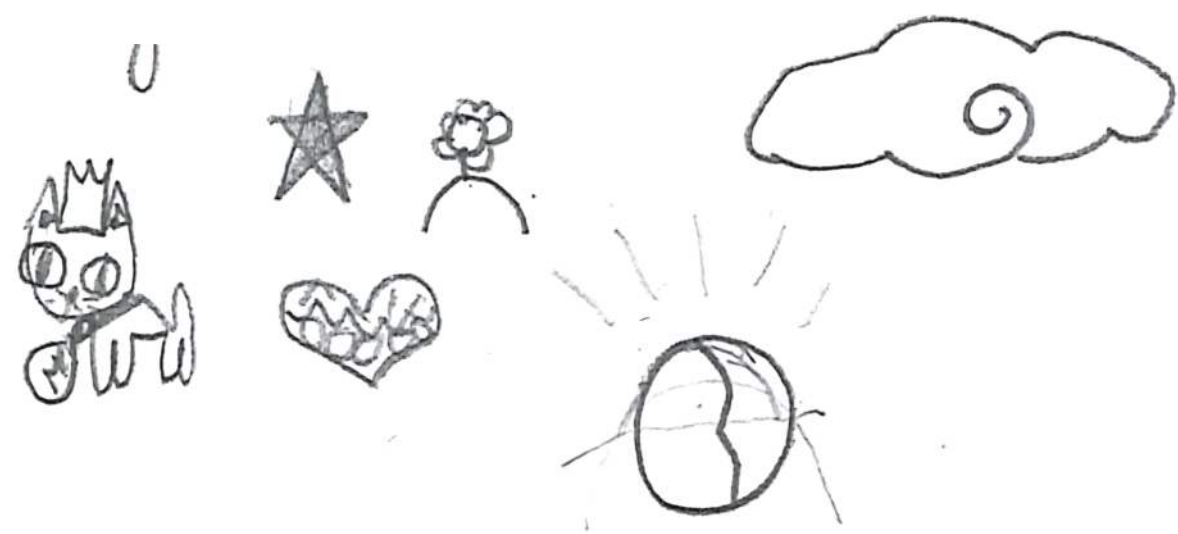


Appalachian Starsong Project

Location North Carolina

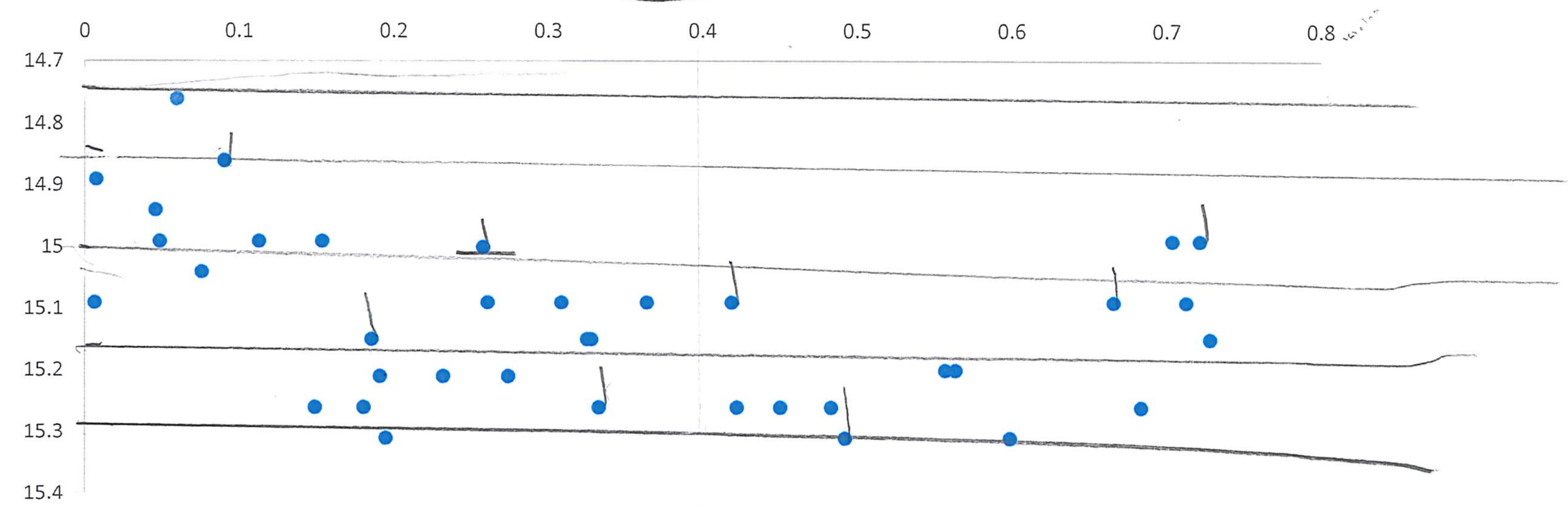
Demographic High-school students from disadvantaged counties and native-american heritage

Size 30



Joyful

lunar



● V84 Magnitude

~~Clock~~

~~⊗~~



21 papers in peer reviewed journals

High school students



14 papers published in **Journal of Double Star Observations**,

4 papers published in **Astronomy: Theory, Observations and Methods Journal**

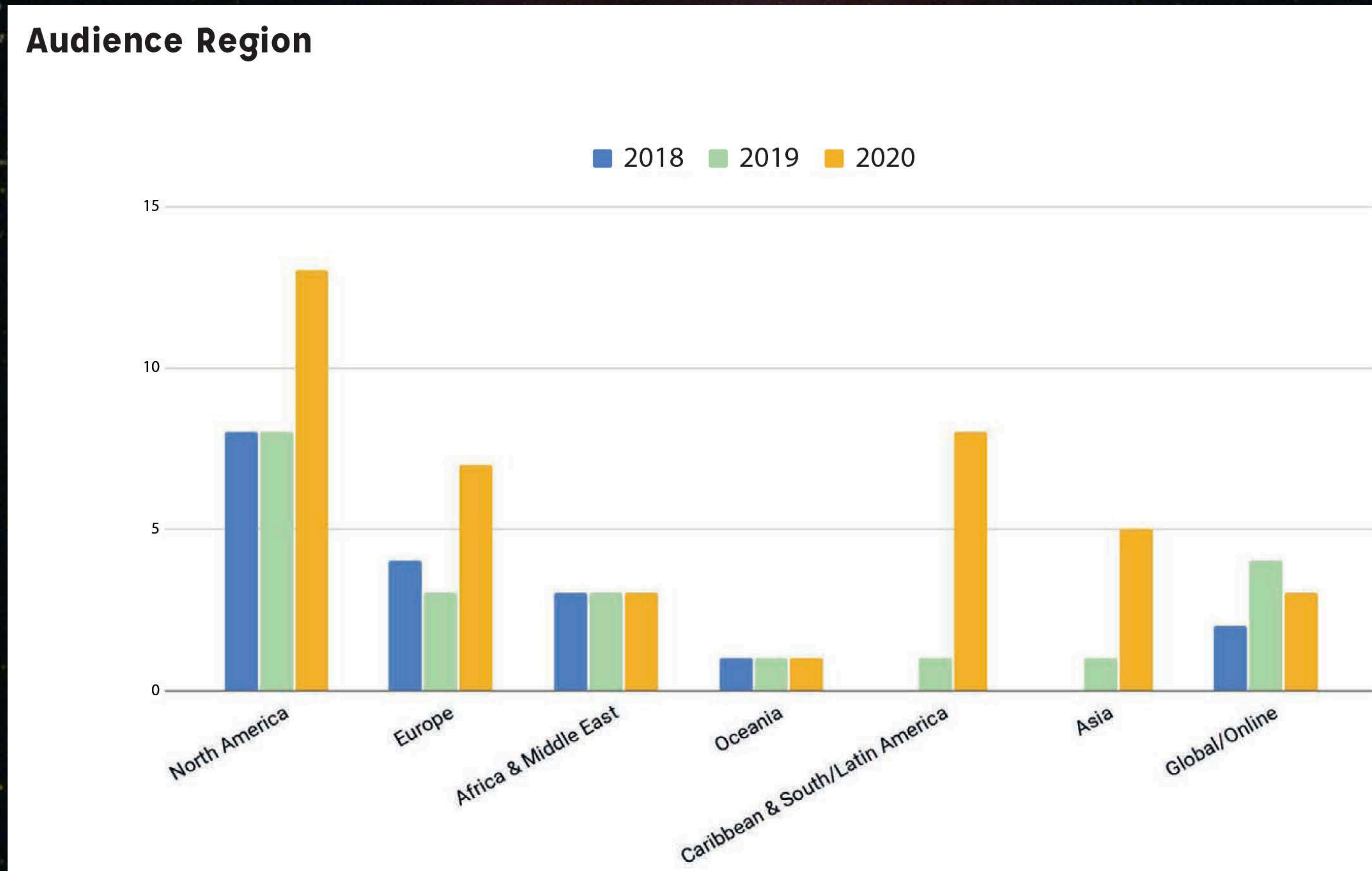
2 papers published in **Research Notes of the American Astronomical Society**

1 paper published in **Monthly Notices of the Royal Astronomical Society**

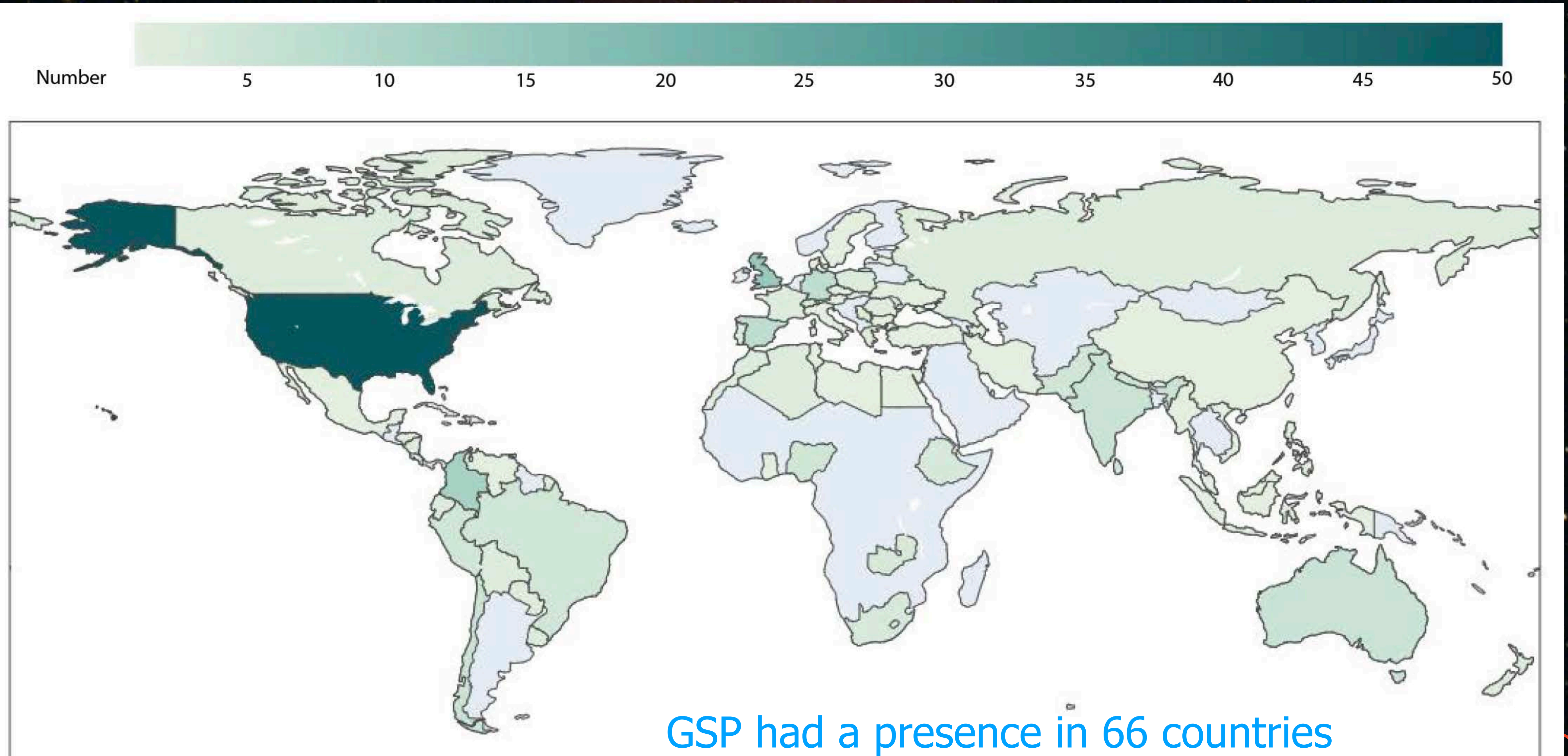


7 talks were presented at the June 2020 **Society for Astronomical Sciences** conference

Geographic spread of partner audiences for 2018 - 2020 cohorts



Geographic spread of 2020 partner audiences.



Audience Impact Survey



96 % said "I can contribute to science"

91 % said "I enjoy working on science projects and would like to be involved in them in the future"

85 % said "I am confident in my ability to do science"

Educational Resources



Chapters

1. Finding Your Way Around the Sky

Learn how to navigate the night sky.

[Read more >](#)

2. The Nature of Light

Discover how we learn about the universe through light.

[Read more >](#)

3. How Telescopes Work

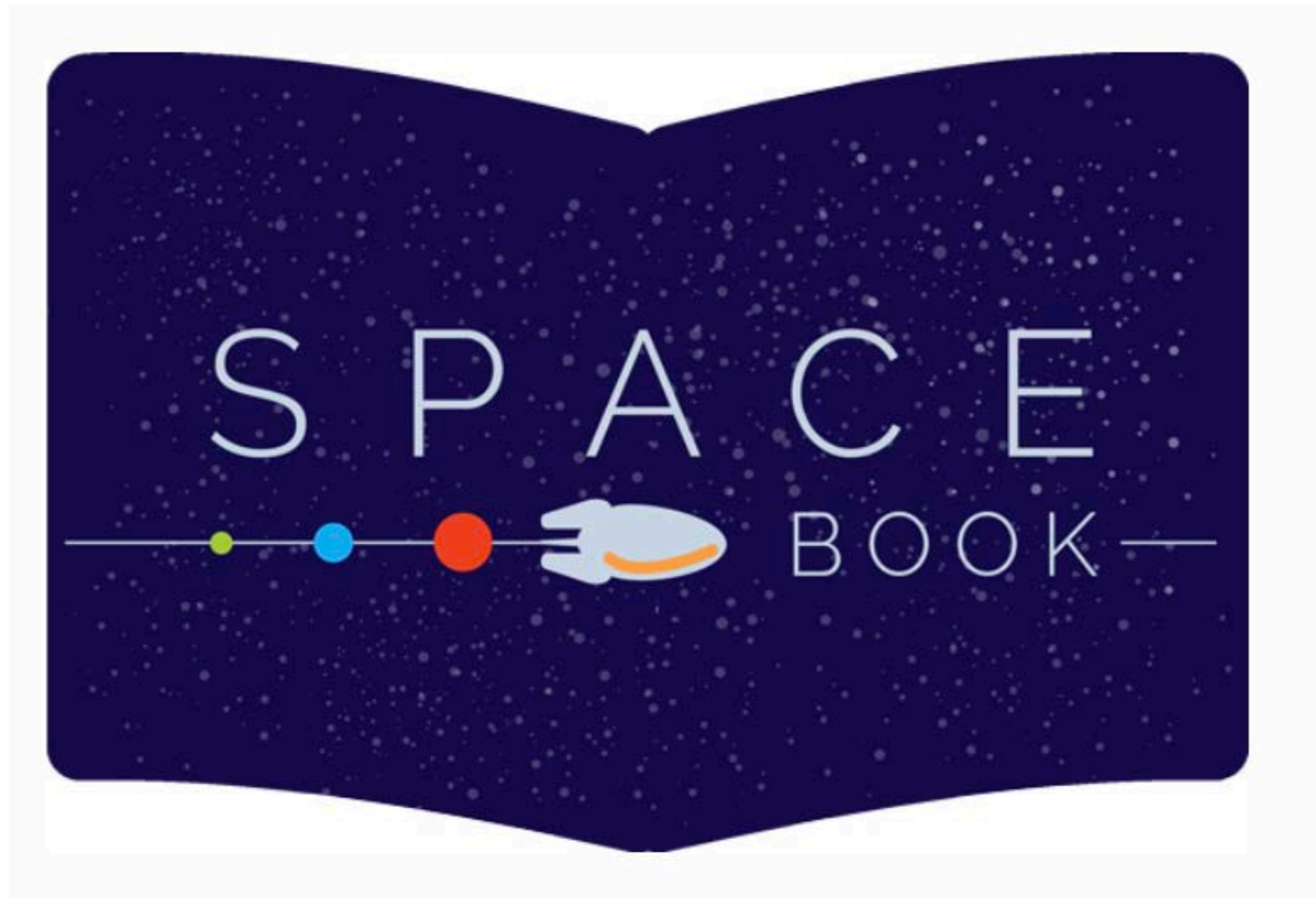
Understand the capabilities and limitations of telescopes.

[Read more >](#)

4. The Solar System

Learn about the planets in our solar system and how they formed.

[Read more >](#)



5. Life Cycle of Stars

Learn about the lives of stars, and their use in measuring distances.

[Read more >](#)

6. Magnitudes and Distance Measurement

Discover key concepts for understanding distance and scale in the universe.

[Read more >](#)

7. Exoplanets

Learn about extrasolar planets, and the methods used to find them.

[Read more >](#)

8. Galaxies

Learn about galaxy types, what they contain, and their history of discovery.

[Read more >](#)

9. Cosmology

Find out about the beginning, evolution, and future of the universe.

[Read more >](#)

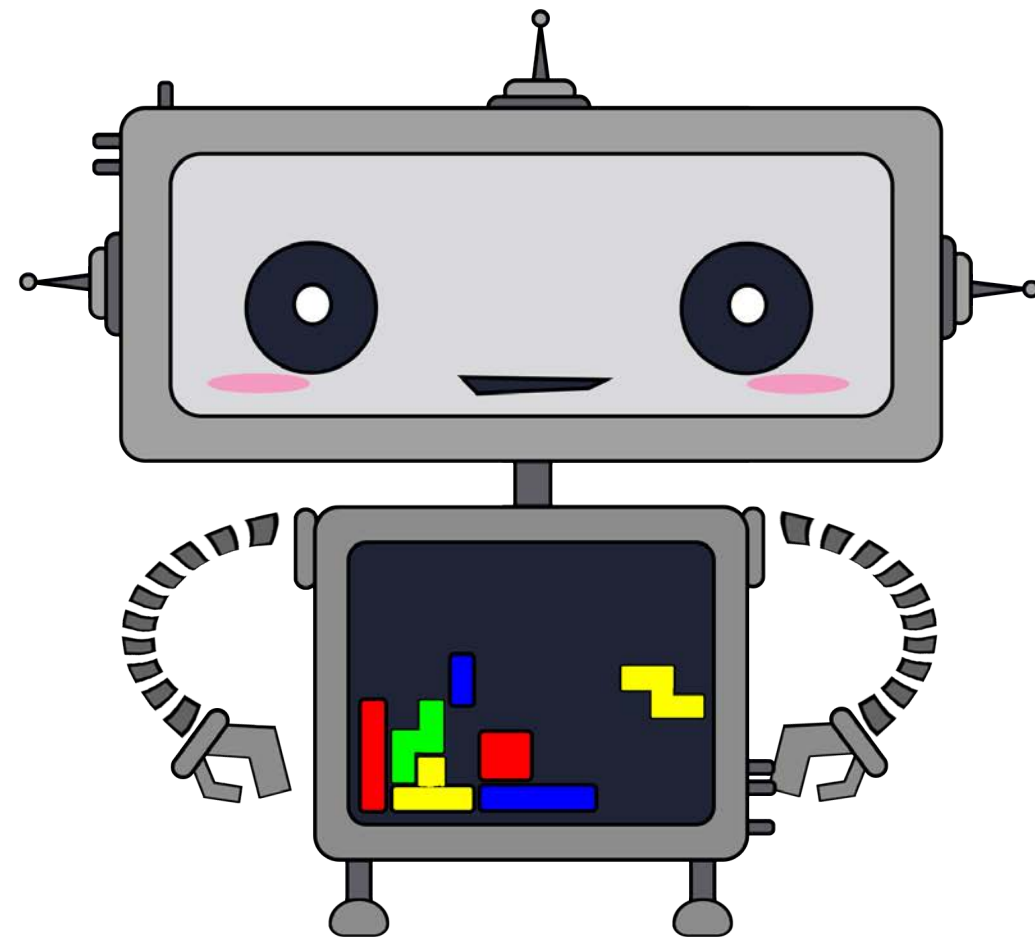
10. Astrobiology

Learn about life on Earth, and the possibilities for life elsewhere.

[Read more >](#)

 lco.global/spacebook

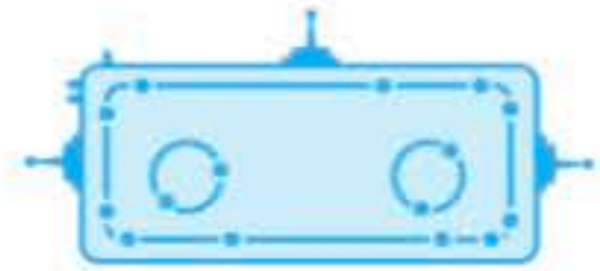




SEROL

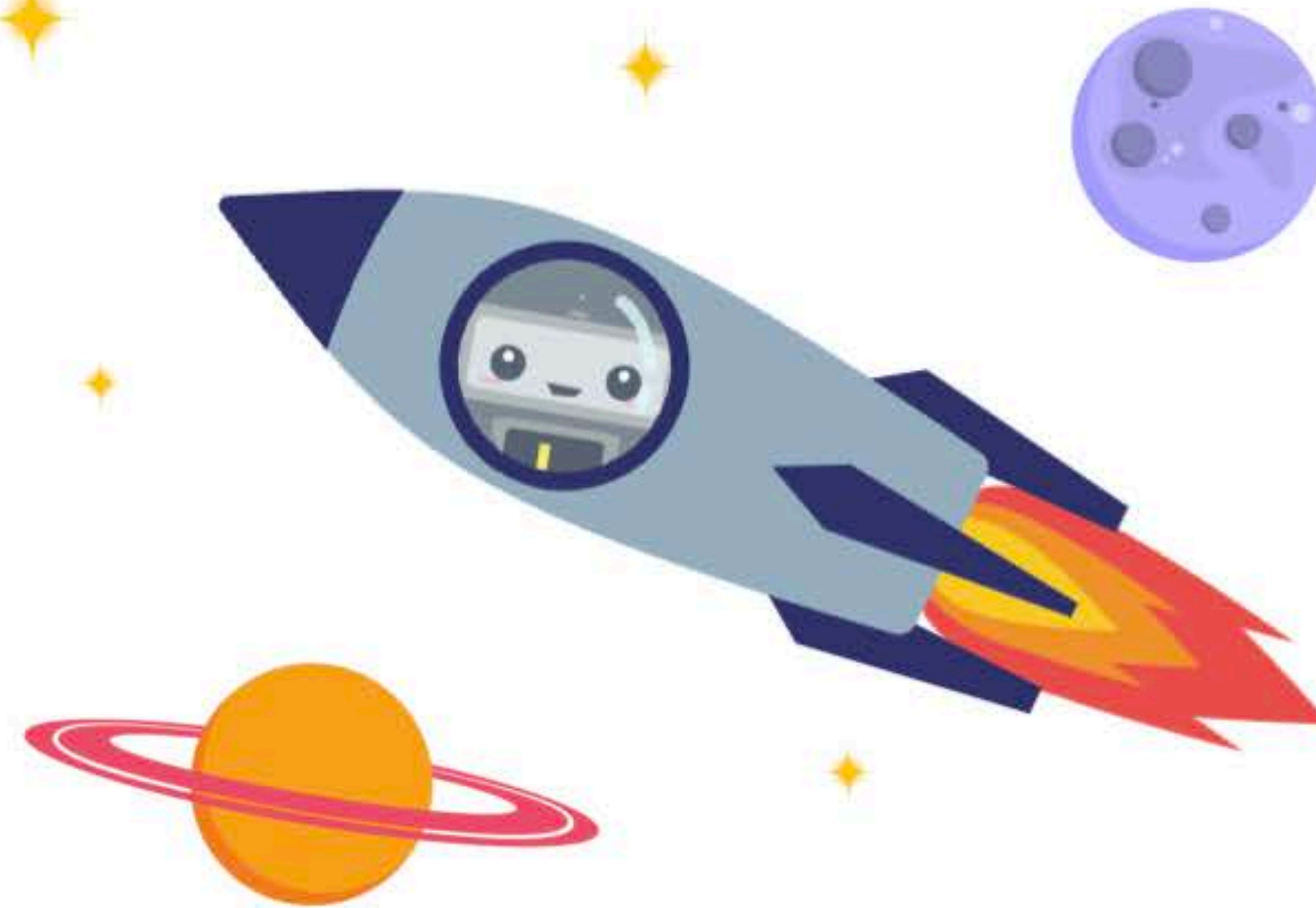
Explore the Universe using robotic telescopes from your classroom

 serol.lco.global



Serol's Cosmic Explorers

Explore the Universe with robotic telescopes, for children and adults from 8 years and up, for free!



Investigate the Universe using Las Cumbres Observatory

Serol is the brain behind our unique network of robotic telescopes. With their help you will choose targets for the robotic telescopes to observe, just for you. You will be emailed when your pictures have been taken and are ready for you to analyse.

More information?

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 lco.global/globalskypartners