

# Cycle 10 and SARP 3 (process/results/plans)

B-G Andersson

SOFIA SUG Spring Meeting  
2022

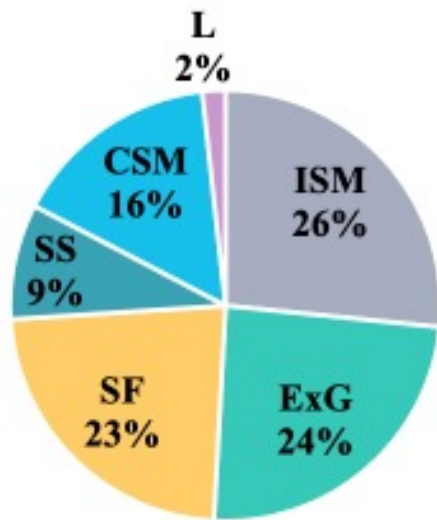
# Cycle 10 CfP and Review

- Planned Observing Period: Oct. 2022 to Sep. 2023
  - Call for proposals released October 29, 2021
  - Proposal deadline January 28, 2022
- Southern Deployment Plan specified. Advertised as:
  - Long Deployments: Summer 2023 – from New Zealand
    - GREAT and HAWC+
  - Two Short (“suitcase”) deployment(s):
    - November 2022: FIFI-LS
    - March 2023: EXES
- Because of the shut-down decision, selections will not be announced
  - The SMO has prepared a Selection Document and Cycle 10 plan to be delivered to NASA

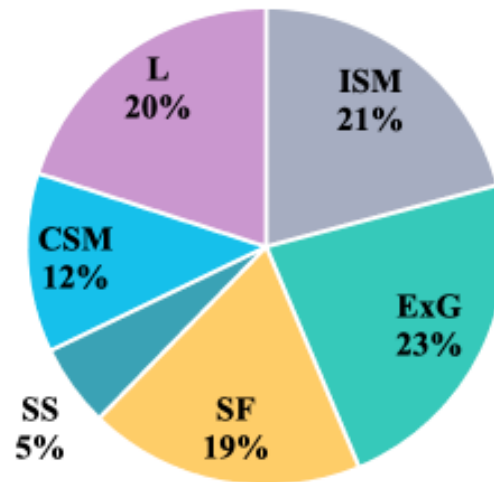
# Cycle 10 Call for Proposals I: Basic Results

- 171 Regular proposals received on the US queue
- 3 Legacy proposals (one Joint US-DE)
- 20 Regular proposals received on the DE queue

U.S. # Proposals by Science



U.S. Requested Time by Science

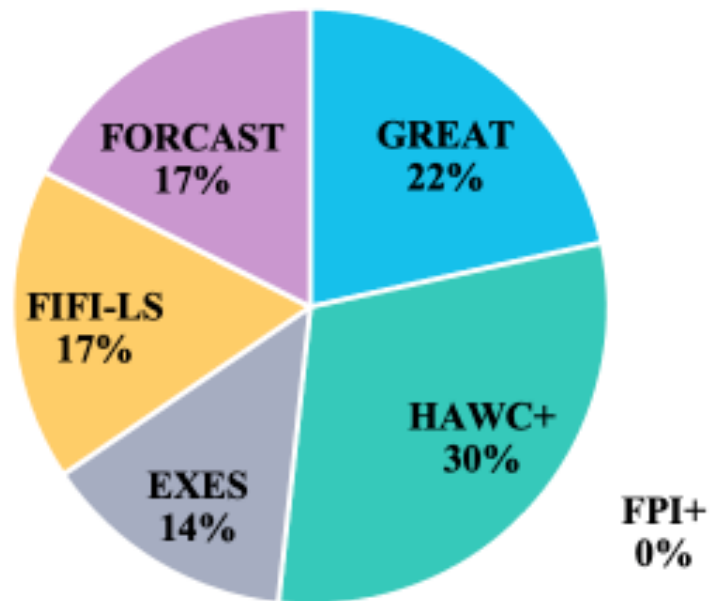


- Excellent proposals in all science areas
- The number of Extragalactic proposals continues to grow
- Legacy proposals submitted for EXES, FIFI-LS and HAWC+

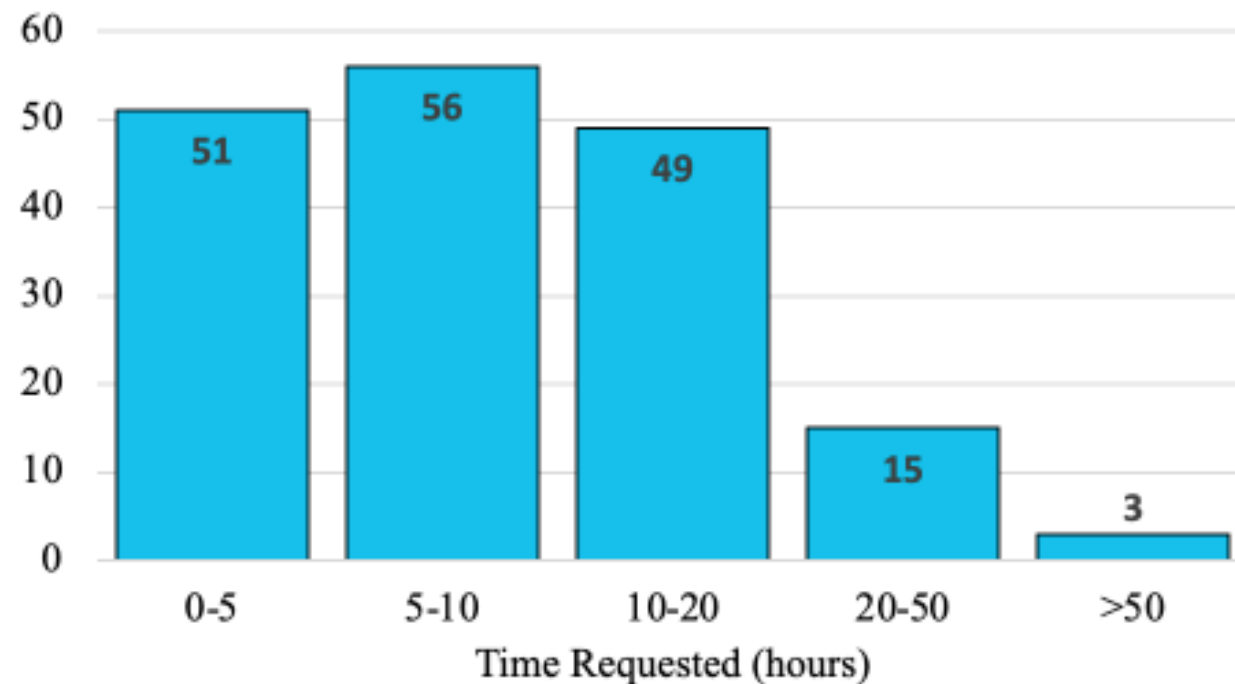
# Cycle 10 Call for Proposals II:

- Good distribution by instrument (no FPI+) and size
- 4 Joint programs requested with IRTF, 2 with GBT

U.S. # Proposals by Instrument



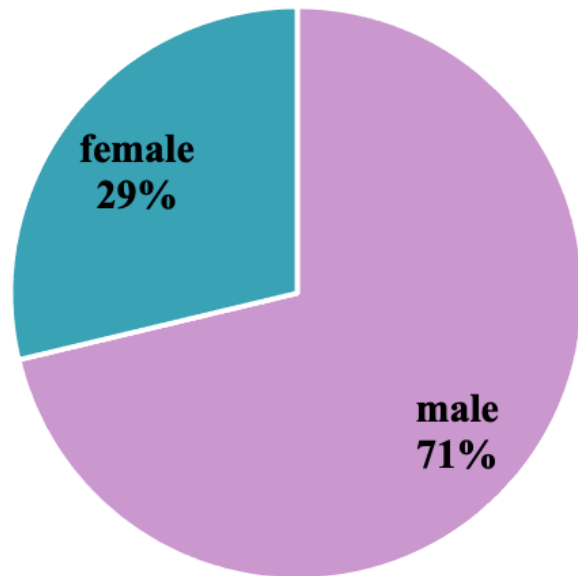
U.S. Distribution of GO Proposal Sizes



# Cycle 10 Call for Proposals III:

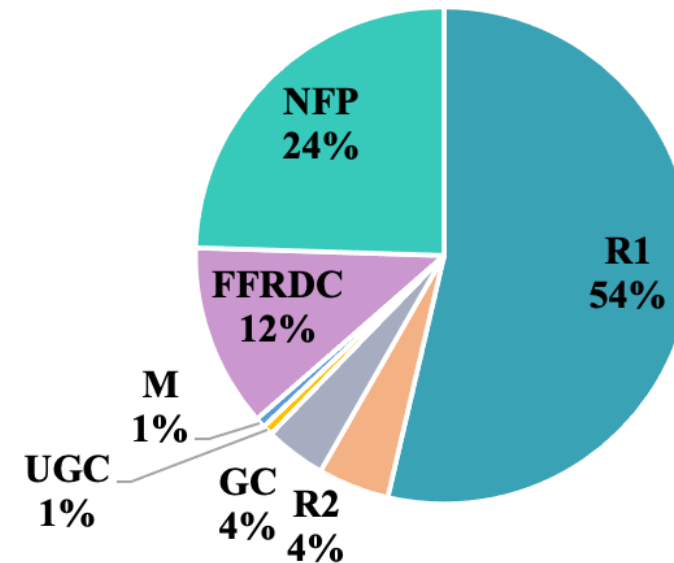
- OK distribution by demographics

Principle Investigator (U.S. Queue only)



Close to the IAU ratio of F/M active astronomer ratio

Principle Investigator Affiliation  
(U.S. Institutions only)



Panel	Affiliation Category
R1	Doctoral Universities – Very high research activity
R2	Doctoral Universities – High research activity
NFP	Non-for-profit
FFRDC	Federally Funded Research and Development Centers
M	Master’s Colleges & Universities
UGC	Undergraduate College
GC	Government Center

# Cycle 10 Call for Proposals I: Basic Results IV

<b>GO P1 + P2 Hours Requested*</b>	218 hours
<b>GO Total Hours Requested</b>	2117 hours
<b>GO Total Oversubscription by Time<sup>1</sup></b>	3.8
<b>GO Proposals Received</b>	174
<b>GO Priority 1 &amp; 2 Proposals Accepted**</b>	29
<b>GO Priority 3 Proposals Accepted**</b>	37
<b>Survey Proposals Accepted</b>	7
<b>GO P1 + P2 Oversubscription by proposal number<sup>2</sup></b>	6

\* TAC evaluation

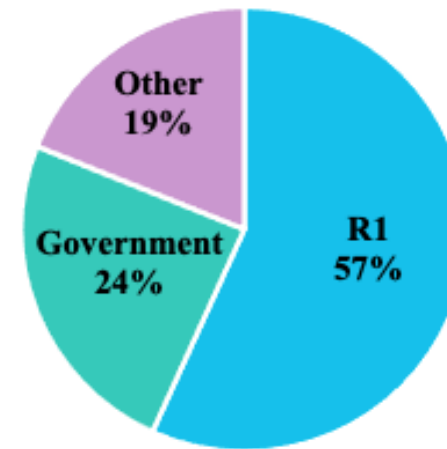
\*\* Notional, not to be announced

<sup>1</sup> New Cycle 10 policy, carry over P2, P3 from Cycle 9, caused drop in proposal submission

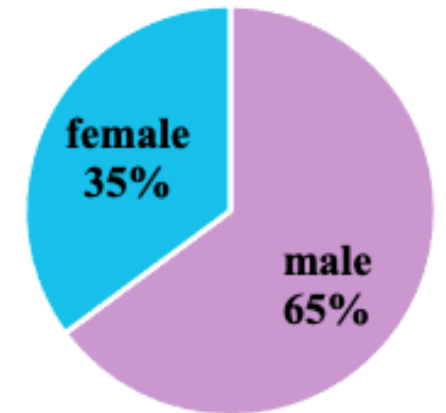
# Cycle 10 Review

- U.S. TAC was held remotely March 15-18, in DAR mode
  - 6 subject panels with a total of 37 members
  - Main review March 15 & 16
  - Legacy panel (with inputs from the subject panels) March 17
  - Panel Chairs' meeting March 18
  - Panel chairs noted the high general quality of the proposals
- DE TAC held week before US
  - Inputs provided to Legacy evaluation and Chairs' meeting

TAC Home Institutions



TAC members by gender



# Cycle 10 [Notional] Selection

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- Based on the TAC ranking of proposals (U.S. and DE) the SMO generated an optimal instrument cadence for a notional Cycle 10
- A full-cycle set of slight plans was generated to evaluate schedulability of proposals and efficiency of plans
- The standard “Selection Document” has been generated and will be delivered to NASA
- A small number of Cy 10 P1 “candidates” have been used to fill gaps in the late Cy 9 flight plans. Will be renamed as DDT programs (Cy 75)
  - Rescheduling necessitated by the temporary loss of HAWC+



# SOFIA Archival Program SARP 3:

- The third SOFIA Archival Research Program (SARP 3) active
- CfP released May 2, 2022
- Formal Update schedule for June 10, 2022
- Proposals due: July 8, 2022
- Approximately \$1M total funding available
  - Regular and Small proposals invited
  - 2 year POP for regular, but not NCE likely

# Supporting Resources



The SMO has and is organizing a number of supporting events and facilities.

- A summer series of virtual webinars running May 13- June 10 will explore Synergies with and **within** the Infrared Archive
- A winter school on SOFIA analysis
  - (Video) Talks available at:  
<https://sofia-school-2022.constantcontactsites.com/schedule-and-talks>
- Cookbooks for data analysis with the instruments:
  - <https://sofia-data-analysis-cookbooks.readthedocs.io/en/latest/index.html>

SOFIA Science Center presents the Summer seminar series 'Synergies within the Infrared Archive'. The series, supporting the latest [SARP Call](#) (deadline July 8th, 2022), consists of online talks by members of the community, spanning a large range of astrophysical topics and highlighting how infrared archival data from different instruments can be used together to leverage scientific information. The five-week series features a 45-minute talk, followed by Q&A, on Fridays at 12:00pm EDT/9:00am PDT, starting 13 May and concluding on 10 June 2022.

Click on a title below for more information and to join.

Synergies Within the Infrared Archive			
Event	Event date	Speaker	Affiliation
<a href="#">The rate, Amplitude, and Duration of Outbursts from Class 0 Protostars in Orion using Spitzer, WISE, SOFIA, and Herschel</a>	Fri, May 13 2022, 9 - 10am	Wafa Zakri	U. Toledo
<a href="#">Synergies within the infrared archive: circumstellar environments</a>	Fri, May 20 2022, 9 - 10am	Ed Montiel	SOFIA/USRA
<a href="#">Synergies within the infrared archive: AGNs</a>	Fri, May 27 2022, 9 - 10am	Irina Smirnova-Pinchukova	MPIA
<a href="#">Synergies within the infrared archive: PAHs</a>	Fri, Jun 3 2022, 9 - 10am	Collin Knight	UWO
<a href="#">Synergies within the infrared archive: Nearby Galaxies</a>	Fri, Jun 10 2022, 9 - 10am	Fiorella Polles	SOFIA/USRA



# Additional Resource

- Archival highlights:  
<https://www.sofia.usra.edu/data/selected-highlights-data-archive>
- List of ALMA/Webb sources available in SOFIA archive:  
<https://www.sofia.usra.edu/proposing-observing/proposal-calls/sofia-archival-research-program/sofia-synergies>
- List of SOFIA Legacy programs (no “proprietary period”):  
<https://www.sofia.usra.edu/data/legacy-programs>
- Description of Galactic Center Legacy program:  
<https://www.sofia.usra.edu/events/recorded-talks#GC>
- IRSA SOFIA tutorials:  
<https://www.sofia.usra.edu/events/recorded-talks#IRSA>
- Information on data reprocessing using the pipeline:  
<https://www.sofia.usra.edu/data/data-pipelines> ; <https://www.sofia.usra.edu/events/recorded-talks#pipeline>

# Call for Proposals Summary

- Cycle 10 planning under way
  - CfP release in late October 2021
  - Proposals due Late January 2022
  - Obs. Oct. '22 – Sep. '23
- [Possibly] Last full Cycle for GREAT
- Significantly enhanced minimum funding for P1 and P2 planned
  - Contingent on funding and NASA approval

