





SOFIA Cycle 2 Proposal Solicitation

B-G Andersson

USRA SOFIA Science Operations Manager

SUG meeting April 26, 2014







SOFIA Cycle 2 [U.S.] Call for Proposals



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Stratospheric Observatory for Infrared Astronomy

(SOFIA)

Observing Cycle 2

Call for Proposals

April 26, 2013

This document and all other information pertaining to SOFIA observing Cycle 2 may be found at http://www.sofia.usra.edu/Science/proposals/cycle1.









Cycle 2 Assumptions and Background







Cycle 2 "Boundary Conditions"

- Cycle 2 will be open to world astronomical community
- Period offered: January-December 2014 in four observing campaigns
- Intermixed with observatory development and instrument commissioning
- No Southern Hemisphere deployment planned
- Aircraft "Heavy Maintenance" ("D-Checks") excludes observations in June - October 2014
- Approximately 175 hours of time will be offered in the US call and approximately 60 hours for GTO programs
- Approximately \$600k available for GI grants
- Director's Discretionary Time route becomes available at FOC (Currently expected by September 2013)

Cycle 2 Proposal Solicitation & Selection Time Line

US queue:

USRA

- Call for Proposals Released
- Delaying the release until Monday allows the GREAT team to incorporate the results from their April commissioning flights in the call (ROC)
- Update "opportunity" planned for
- Proposal deadline
- Technical Review
- Peer Review
- Directors' Review
- Announce Selections
- Phase 2
- Cycle starts (nominally)
- First Science Campaign starts

Mid September ~September 20 October January 1, 2014 February 11, 2014

2013 dates

April 29

June 1

June 28

early August

August 19-21







Cycle 2 Web page

About SOFIA	News & Updates	Education & Public Outreach	Information for Researchers	Multimedia Gallery								
	3		Information	for Researchers								
	<u>Home</u> > [nformation for Researchers > Proposal Calls	> Cycle 2									
Announcements	Cycl	e 2										
Cycle 1 Information	The SO approxin Univers	FIA Cycle 2 Call for Proposals (CfP ha mately 175 hours of science observing ities Space Research Association (US	as been released. This call solicits o g using SOFIA. It is being issued on RA).	bserving proposals for behalf of NASA by the								
Observing with SOFIA	 The pro scientific observa 	posal process consists of two phases. c justification, a feasibility analysis and tions. The peer review and proposal s	Phase I requires the preparation and a high level description of the prop election are based on the Phase I s	nd submission of a osed targets and ubmission. Proposals								
Proposal Calls	 that are 	that are awarded time will be required to submit detailed observation specifications during Phase II.										
Documents and Presentations	A forma about of flights c	A formal update to the CfP is scheduled for June 1, 2013. This will allow us to disseminate knowledge about observatory and instrument capabilities gained from the analysis of data from commissioning flights currently underway. We do not forsee any major changes from the capabilities as described in the										
SOFIA Science	Observe	er's Handbook for Cycle 2, released co	oncurrently with the CfP on April 26,	2013.								
SOFIA Advisory	The dea Septem	adline for submitting proposals is June ber, 2013, and the Cycle 2 observing	28, 2013. Proposal selections will b period is from February to December	e announced in er, 2014.								
SOFIA Colloquium	The CfF submitti	document, links to the Observer's Hang a proposal may be found at the "Cy	Indbook for Cycle 2, and other detai ycle 2: Phase I Information" link belo	Is about preparing and w.								
	Cycle	2: Phase I Information										
SYSTEM	Cycle	2: Phase II Information										
SOFIA Science Archive												
	Contac	t the SOFIA help-desk										



Contact the SOFIA help-desk







Instruments & Capabilities in the Call

- FORCAST, HIPO: All modes
- FLITECAM: Imaging and grism except for long wavelength (I>3.8mm)
- GREAT:
 - L1, L2: All frequencies
 - M: OH, 2.51 THz, line only
- EXES: High-resolution mode, shared risk
 - Limited to "about one flight"
- FIFI-LS: proposals solicited to join the "Science Verification Team" (US will allocate time and funding to successful GIs)
 - Limited to "about one flight"
- FDC/FPI+: Not offered as science instrument in Cycle 2







Cycle 2 Detailed Planning Overview









Cycle 2 Detailed Planning Overview



Cycle 3 Proposals Due

		Aircraft & TA Heavy Maintenance																																
F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	T
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	July 2014																					August	2014											

Heavy Maintenance

	Aircraft & TA Heavy Mainter															ance																		
F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	H	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	T
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
August - 2014																				Septemb	er 201	4												

Cycle 3 Proposals selected



4/18/2013

Rev. A







Tools and Issues







Proposal Tools & Documentation – all updated for Cy 2

Exposure estimation tools etc.

- DCS provides exposure time calculators for FORCAST and FLITECAM imaging through SITE
- Exposure time calculator for GREAT
- Exposure time calculators for FLITECAM and FORCAST grism mode
- Sensitivities and algorithms for EXES exposure times on web site.
- ATRAN available on SOFIA web site
- SPT Calculates required overheads
- VT (Visibility Tool) deemphasized for Cy 2 call (platform/browser issues)







Proposal Tools & Documentation – all updated for Cy 2, cont.

Documentation

• Web site, CfP, Observer's Handbook

Support

 Active and responsive user support, including Help Desk and FAQs, primarily provided by Ravi Sankrit and Andrew Helton





Cycle 2 Staffing Assignment Instrument/Support Scientists:

- EXES

USRA

- Adwin Boogert (Support Scientist; starts Sept '13)
- Bill Vacca (Deputy Support Scientist)
- FIFI–LS
 - Randolf Klein (Instrument Scientist)
- FLITECAM
 - Maureen Savage (Instrument Scientist)
 - Ryan Hamilton (Post-doc, Assistant Instrument Scientist, starts June '13)
- FORCAST
 - Jim De Buizer (Instrument Scientist)
 - Andrew Helton (Deputy Instrument Scientist)
- GREAT
 - Göran Sandell (Support Scientist)
- HIPO
 - Jeff van Cleve (Support Scientist)
- User Support Scientists:
 - Ravi Sankrit (lead), Andrew Helton