



SOFIA Status and Schedule

Bill Reach
Chief Science Advisor





SOFIA Present Status

- Aircraft in Hamburg
 - Completed planned maintenance by Lufthansa Technik
 - Repaired fuel tank, problem found after maintenance
 - Functional check flight on Friday, May 4
 - Planned return to California on Tuesday, May 8
- Begin Cycle 6 observations on Friday, May 11



Cycle 6 Daily Overview – Page 2 of 2

• [May use for operations planning](#)
 • Approval of the schedule by the Program Management Board forthcoming



24/7 Coverage Required

OC#6 M FIFI-LS										OC#6 N GREAT																								
3 Flights					SI Rem.	SI Install						15 Flights																						
S	M	T	W	T	F	S	S	H	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S							
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8
November -- 2018															December -- 2018																			

P46/
Wirtanen

233rd AAS Meeting, Seattle, WA

OC#6 N GREAT										OC#6 O FORCAST																								
					SI Rem.						6 Flights					Prep	BFI	AAS Tours					PMD											
S	M	T	W	T	F	S	S	H	W	T	F	S	S	M	H	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
9	10	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
December -- 2018															January -- 2019																			

2019 "Back in the Saddle"

OC#6 O FORCAST					OC#6 P EXES										OC#6 Q HAWC+																			
					SI Rem.	SI Install	6 Flights					SI Rem.	SI Install	5 Flights																				
S	M	T	W	T	F	S	S	H	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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	15	16
January -- 2019															February -- 2019																			

OC#6 R FIFI-LS										Maintenance / Upgrades #18/19																								
6 Flights					SI Rem.	Eng LO					CR																							
S	H	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	H	T	W	T	F	S							
17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
February -- 2019															March -- 2019																			

Cycle 7 Start

Maintenance / Upgrades #18/19										OC#7 A																	
										Eng LO	Chk Fit	MD Rem	SI Install	SI Install													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
March -- 2019										April -- 2019																	

Key Observing Cycle: 6 Baseline Science Flights: 100 Baseline RHs: 796 Planned Obsv Prog Flights*: 100 Estimated RHs*: 796 (*Year to date + Estimate)											
S 7 (black text with no fill)	Weekend day	H 4 (day of week box H or GH w/ red fill)	US or German Holiday	F 6 (bold white text, purple fill, bold border)	Instr. Commissioning Flight (bold white text, purple fill, bold border)	F 6 (bold white text, blue fill, bold border)	Baseline Observing Flight (bold white text, blue fill, bold border)	F 6 (bold white text, green fill, bold border)	Ferry/Maint./Non-Sci Flight (bold white text, green fill, bold border)	★ F 6 (white star on day of week)	Educator on Flight (white star on day of week)
F 6 (black text w/ day box grey fill)	Work day	F 6 (bold border)	Line Operations (bold border)	F 6 (day box with purple fill)	Contingency Instr. Comm. Flight (day box with purple fill)	F 6 (day box with blue fill)	Contingency Obser. Flight (day box with blue fill)	F 6 (day box with green fill)	Contingency Ferry/Maint./Non-Sci Fit (day box with green fill)	★ F 6 (yellow star on date)	Media/VIP on Flight (yellow star on date)
F 6 (day and date shown in red)	AFRC Regular Day Off (day and date shown in red)	F 6 (day and date box filled with lt. green)	Possible Maint/Up. Check Fit (day and date box filled with lt. green)	F 6 (bold white text, light blue fill, bold border)	Deployment Observing Flights (bold white text, light blue fill, bold border)	S 28 (colored fill only lower half, bold bdr.)	Short Flight (colored fill only lower half, bold bdr.)	S 13 (two colored fill)	Half Sci. & Half Ferry/Maint./Non-Sci (two colored fill)	F 6 (blue/orange fill, bold border)	Cont./Alternate Flight (blue/orange fill, bold border)
										F 6 (single slash through day and date)	Return to Base (RTB) Flight (single slash through day and date)
										F 6 (x through day and date)	Canceled Flight (x through day and date)
										F 6 (lt. blue/ lt. orange fill, bold border)	Deploy P1 Cont/ P2 Alt Flight (lt. blue/ lt. orange fill, bold border)



SOFIA Science Instrument Status

- EXES cold and ready to install for OC6E
- GREAT logistics ready prepared:
 - will install in Palmdale for OC6G
 - Fly to New Zealand mounted to telescope for OC6H
 - Return to Palmdale aboard SOFIA
- HAWC+ being prepared for its 1st deployment
 - Finalizing plans to ship in SOFIA cargo bay





How to Monitor SOFIA schedule

SOFIA Overview Proposing and Observing Instrument Call Instruments Publications Meetings and Events Annou

Proposal Calls

Cycle 6

Phase I

Complementary Sky Positions

Phase II

Cycle 6 Schedule and Flight Plans

▶ SOFIA Cycle 6 Results

▶ SOFIA Director's Discretionary Time

Proposing and Observing Quick Links

Observer's Handbook for Cycle 6

USPOT Manual

Home » For Researchers » Proposing and Observing » Proposal Calls » Cycle 6 » Cycle 6 Schedule and Flight Plans

Cycle 6 Schedule and Flight Plans

Cycle 6 selection result notification letters have gone out. Summaries of accepted proposals are posted [here](#).

Cycle 6 Flight Series (posted April 25, 2018)

[Flying on SOFIA: General Information](#)

Name	Instrument	Flight Date	Number of flights	Base
OC6-E	EXES	Wednesday, May 09, 2018 to Thursday, May 17, 2018	4	Palmdale
OC6-G	GREAT	Friday, May 18, 2018 to Wednesday, May 23, 2018	2	Palmdale
OC6-H	GREAT	Thursday, May 24, 2018 to Sunday, July 01, 2018	10	Christchurch





Search



OC6-E Flight Plan Information

Instrument: EXES

Base: Palmdale

Flight Date: Wednesday, May 09, 2018 to Thursday, May 17, 2018

Number of flights: 4

OC6-E Flight 1

Take-off Date:

Friday, May 11, 2018

Leg	DCS_ID	PI Name	Target Name	RA (2000)	Dec (2000)	Leg Duration (min)	Altitude (ft)
5			beta Gem	07h45m18.95s	28d01m34.3s	0	39000
6			beta Gem	07h45m18.95s	28d01m34.3s	40	39000
7	OB_06_0172_01	Fonfria	IRC+10216	09h47m57.41s	13d16m43.6s	55	39000
8	OB_06_0144_11	Montiel	IRC+10216	09h47m57.41s	13d16m43.6s	46	39000
9	OB_05_0041_05	Tielens	Vega	18h36m56.34s	38d47m01.3s	50	41000
10	OB_06_0144_02	Montiel	chi Cyg	19h50m33.92s	32d54m50.6s	47	41000
11	OB_75_0024_01	Richter	NGC 7538 IRS 1	23h13m45.32s	61d28m11.7s	72	43000
12	OB_05_0041_01	Tielens	AFGL 2136	18h22m26.50s	-13d30m15.0s	110	43000





SOFIA Upcoming Scientific Events

- AAS June (3-7 June 2018) Special Sessions
 - 3 special sessions highlighting SOFIA results and future potential
- Astrophysical Journal Letters focus issue
 - First results from FIFI-LS and HAWC+
 - Other SOFIA papers welcome
 - Submit this summer, publish winter
- COSPAR Special Session
 - Special session in main program
 - Tour of observatory immediately upon return from deployment (weekend after conference)





Cycle 7 Calls for Proposals

- NASA Call for Observing Proposals
 - Includes international (except DE) participation
- German Call for Observing Proposals
 - Researchers at German institutions
- NASA Call for Legacy proposals

- Cycle 6 end was shifted so as to allow all Right Ascensions to be visible and therefore allow completion of accepted projects
- Cycle 7 starts April 13, 2019
- Proposal Calls to be used ~June 1, 2018
- Due date ~Sep 7, 2018

