



SOFIA Status and Schedule

Bill Reach
Chief Science Advisor





SOFIA Present Status

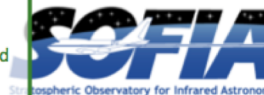
- Aircraft in Hamburg
 - Completed planned maintenance by Lufthansa Technik
 - Repaired fuel tank, problem found after maintenance
 - Functional check flight on Friday, May 4
 - Planned return to California on Tuesday, May 8
- Begin Cycle 6 observations on Friday, May 11



Cycle 6 Daily Overview – Page 1 of 2

Pre-PMB Schedule as of 30-Apr-2018

- May use for operations planning
- Approval of the schedule by the Program Management Board forthcoming



Maintenance / Upgrades #15 w/ 'C' Check

													FCF		Prep		Ferry	SI Install	Eng LO	4 Flights	
S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
										May -- 2018											

Cycle 6 Start

Europa				NZ Time																															
OC#6 E EXES				OC#6 G GREAT LFA/HFA								OC#6 H (NZ) GREAT								Media															
SI Rem				SI Install				2 Flights LFA/HFA				Aircraft Prep				Ferry CHC - 2 flts				Prep		Orient		8 Flights LFA/HFA				Post		Down		Prep		Swap	
S	M	T	W		F	S	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	
13	14	15	★ 16		18	19	20	21	22	23								31	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16
May -- 2018																June -- 2018																			

OC#6 H (NZ) GREAT																							OC#6 I (NZ) HAWC+										Titan				
Down		Prep		8 Flights 4G/HFA				Post	Down	Prep	SI Rem.		Down	SI Install		8 Flights				Post	Down	Prep	OC#6 I (NZ) HAWC+				FPI+		2 flts								
S	M	T	W	T	F		S	S	M	T		S	S	M	T	H	T	F	S		S	M	T	Prep	W	T	F	S		S	M	T	Titan	Prep	FerryPMD	F	S
17	18	19	20	21	22		23	24	25		26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
June -- 2018													July -- 2018																								

COSPAR Tour		OC#6 I (NZ) HAWC+										MD Inst.		Maintenance / Upgrades #17																		OC#6 J FORCAST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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OC#6 J FORCAST															SI Rem.			SI Install			OC#6 K HAWC+													
																		LO (H)			10 Flights													
S	M	T	W	T	F	S	S	H	T	W	T	P	S	S	M	T	W	T	F	S	S	M	T	W	T	P	S	S	M	T	W	T	F	S
26	27	28	29	30	31	1	2	3	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
August -- 2018															September -- 2018																			

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

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				SI Install	SI Install	15 Flights																							
S	M	T	W	T	F	S	S	H	T	W	T	F	S	S	M	T	W	H	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							

November -- 2018

December -- 2018

P46/
Wirtanen

233rd AAS Meeting, Seattle, WA

OC#6 N GREAT												OC#6 O FORCAST												2019 "Back in the Saddle" 2019																			
												SI Rem.								SI Install		SI Install						SI Install		6 Flights		Prep	BFI	AAS Tours						PMD			
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	H	W	T	F	S	S	M	H	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																						

December -- 2018

January -- 2019

OC#6 O FORCAST									OC#6 P EXES														OC#6 Q HAWC+																
				SI Rem	SI Install	SI Install					6 Flights										SI Rem	SI Install				SI Install	5 Flights										SI Rem	SI Install	SI Install
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																									

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	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																						

February -- 2019

March -- 2019

Maintenance / Upgrades #18/19																		Cycle 7 Start OC#7 A									
																		Eng LO	Chk Flt	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					
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																			

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)													
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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](#) [Announcements](#)

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

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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




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

