

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Feb. 1 Fr	18:00 18:30	G,W		---	facility open		
	18:30 21:30	G,W	X	089 Chen	iSHELL	SJB	First Night
	21:30 05:50	G,W	X	022 Crossfield	iSHELL	ACB	
Feb. 2 Sa	05:50 06:00	G,W		---	facility close		
Feb. 2 Sa	18:00 18:30	G,E		---	facility open		
	18:30 23:00	G,E	X	044 Brittain	iSHELL	MSC	
	23:00 05:50	G	X	999 Engineering	TBD	SJB	
Feb. 3 Su	05:50 06:00	G		---	facility close		
Feb. 3 Su	18:00 18:30	E		---	facility open		
	18:30 23:00	E	X	044 Brittain	iSHELL	MSC	
	23:00 05:00	E	X	066 Saki	iSHELL	MSC	
Feb. 4 Mo	05:00 12:00	E,O	X	028 Aoki	iSHELL	ACB	Daylight Obs, First Night
	12:00 12:10	O		---	facility close		
Feb. 4 Mo	18:00 18:30	E		---	facility open		
	18:30 23:00	E	X	044 Brittain	iSHELL	MSC	
	23:00 05:00	E	X	066 Saki	iSHELL	MSC	
Feb. 5 Tu	05:00 12:00	E,O	X	028 Aoki	iSHELL	ACB	Daylight Obs
	12:00 12:10	O		---	facility close		
Feb. 5 Tu	18:30 19:00	E,C,W		---	facility open		
	19:00 00:30	E,C,W	X	041 Llama	iSHELL	ACB	
Feb. 6 We	00:30 01:00	E		---	inst. change		
	01:00 06:20	E	X	036 DeMeo	SpeX/MORIS	SJB	
	06:20 06:30	E		---	facility close		
	10:00 16:00			---	inst. change		
Feb. 6 We	18:30 19:00	C,W		---	facility open		
	19:00 23:00	C,W	X	097 Boogert	iSHELL	ACB	
	23:00 06:20	C,W	X	066 Saki	iSHELL	MSC	
Feb. 7 Th	06:20 06:30	C,W		---	facility close		
	10:00 16:00			---	inst. change		
Feb. 7 Th	18:30 19:00	C,W		---	facility open		
	19:00 00:30	C,W	X	037 McGraw	SpeX	SJB	
Feb. 8 Fr	00:30 06:20	C,W	X	011 Reddy	SpeX/MORIS	SJB	
	06:20 06:30	C,W		---	facility close		
Feb. 8 Fr	18:30 19:00	C,W		---	facility open		
	19:00 23:59	C,W	X	096 Fischer	SpeX	ACB	
	23:59 00:45	C,W		---	inst. change		
Feb. 9 Sa	00:45 05:15	C,W		999 Engineering	TEXES	SJB	
	05:15 11:00	C,W,O		032 Greathouse	TEXES	SJB	Daylight Obs
	11:00 11:45	O		---	inst. change		
	11:45 11:55	O		---	facility close		
Feb. 9 Sa	18:30 19:00	M		---	facility open		
	19:00 04:30	M	X	043 Popescu	SpeX/MORIS	SJB	



	23:59	05:00	W		999	Engineering	TEXES		SJB
Feb. 16 Sa	05:00	06:00	W		010	Giles	TEXES		SJB
	06:00	13:00	W,M		019	Encrenaz	TEXES		SJB Daylight Obs
	13:00	13:10	M			--- facility close			
Feb. 16 Sa	18:30	19:00	W			--- facility open			
	19:00	22:15	W		078	McCarthy	TEXES		SJB
	22:15	23:00	W			--- inst. change			
	23:00	04:45	W	X	103	Thomas	SpeX/MORIS		MSC
Feb. 17 Su	04:45	05:30	W			--- inst. change			
	05:30	07:00	W,O,E		010	Giles	TEXES		SJB Daylight Obs
	07:00	13:00	O,E		019	Encrenaz	TEXES		SJB Daylight Obs
	13:00	13:10	O,E			--- facility close			
Feb. 17 Su	18:30	19:00	W			--- facility open			
	19:00	22:15	W		078	McCarthy	TEXES		SJB
	22:15	23:00	W			--- inst. change			
	23:00	04:45	W	X	075	Protopapa	SpeX/MORIS		MSC
Feb. 18 Mo	04:45	05:30	W			--- inst. change			
	05:30	07:30	W,O,E		010	Giles	TEXES		SJB Daylight Obs
	07:30	13:00	O,E		019	Encrenaz	TEXES		SJB Daylight Obs
	13:00	13:10	O,E			--- facility close			
Feb. 18 Mo	18:30	19:00	G			--- facility open			
	19:00	22:15	G		078	McCarthy	TEXES		SJB
	22:15	23:00	G			--- inst. change			
	23:00	04:45	G	X	020	Arredondo	SpeX/MORIS		MSC
Feb. 19 Tu	04:45	05:30	G			--- inst. change			
	05:30	11:00	G,O		032	Greathouse	TEXES		SJB Daylight Obs
	11:00	11:45	O			--- inst. change			
	11:45	11:55	O			--- facility close			
Feb. 19 Tu	18:30	19:00	G			--- facility open			
	19:00	01:00	G	X	096	Fischer	SpeX		ACB
Feb. 20 We	01:00	04:45	G	X	020	Arredondo	SpeX/MORIS		MSC
	04:45	05:30	G			--- inst. change			
	05:30	11:00	G,O		032	Greathouse	TEXES		SJB Daylight Obs
	11:00	11:10	O			--- facility close			
	11:10	16:00				--- inst. change			
Feb. 20 We	18:30	19:00	G			--- facility open			
	19:00	23:59	G	X	041	Llama	iSHELL		ACB
	23:59	00:30	G			--- inst. change			
Feb. 21 Th	00:30	06:20	G	X	057	Shahbandeh	SpeX/MORIS		ACB
	06:20	06:30	G			--- facility close			
Feb. 21 Th	18:30	19:00	G,E			--- facility open			
	19:00	06:20	G,E		048	Takir	SpeX		ACB

Feb. 22 Fr	06:20	06:30	G						---	facility close
Feb. 22 Fr	18:30	19:00	E						---	facility open
	19:00	06:20	E		048	Takir	SpeX			ACB
Feb. 23 Sa	06:20	06:30	E						---	facility close
Feb. 23 Sa	18:30	19:00	E						---	facility open
	19:00	05:50	E		048	Takir	SpeX			ACB
Feb. 24 Su	05:50	06:20	E						---	inst. change
	06:20	06:30	E						---	facility close
Feb. 24 Su	18:30	19:00	E,C						---	facility open
	19:00	23:59	E,C	X	041	Llama	iSHELL			ACB
	23:59	00:30	E						---	inst. change
Feb. 25 Mo	00:30	06:20	E	X	072	Dressing	SpeX			MSC
	06:20	06:30	E						---	facility close
	10:00	16:00							---	inst. change
Feb. 25 Mo	18:30	19:00	C						---	facility open
	19:00	23:59	C	X	041	Llama	iSHELL			ACB
	23:59	00:30	C						---	inst. change
Feb. 26 Tu	00:30	06:20	C	X	031	Becker	SpeX/MORIS			MSC
	06:20	06:30	C						---	facility close
	10:00	16:00							---	inst. change
Feb. 26 Tu	18:30	19:00	C						---	facility open
	19:00	02:00	C	X	086	Gaidos	iSHELL			ACB
Feb. 27 We	02:00	02:30	C						---	inst. change
	02:30	06:20	C	X	036	DeMeo	SpeX/MORIS			SJB
	06:20	06:30	C						---	facility close
Feb. 27 We	18:30	19:00	C,G						---	facility open
	19:00	23:59	C,G	X	096	Fischer	SpeX			ACB
	23:59	03:40	C		999	Engineering	TBD			SJB
Feb. 28 Th	03:40	05:10	C	X	040	Rathbun	SpeX			SJB
	05:10	06:20	C		999	Engineering	TBD			SJB
	06:20	06:30	C						---	facility close
Feb. 28 Th	18:30	19:00	G						---	facility open
	19:00	06:20	G	X	051	Rivkin	SpeX			SJB

**Observer List****February, 2019**

- 008 Arrate Antunano, Leigh Fletcher, Thomas Greathouse, Glenn Orton, Henrik Melin, James Sinclair, Padraig Donnelly, Rohini Giles, James Blake, Michael Roman and Naomi Rowe-Gurney
- 010 Rohini Giles, Thomas Greathouse, Therese Encrenaz, Glenn Orton, James Sinclair
- 011 Vishnu Reddy, Juan Sanchez, Allison McGraw
- 019 Therese Encrenaz, Thomas Greathouse, Emmanuel Marcq, Hideo Sagawa, Thomas Widemann, Bruno Bezard, Thierry Fouchet, Sushil Atreya, Yeon Joo Lee, Rohini Giles, Shigeto Watanabe
- 020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso
- 022 Ian Crossfield, Joshua Lothringer, Richard Freedman, Elisabeth Mills
- 028 Shohei Aoki, Ann Carine Vandaele, Severine Robert, Arianna Piccialli, Arnaud Mahieux, Hideo Sagawa
- 031 Savan Becker, Paul Hardersen
- 032 Thomas Greathouse, Glenn Orton, Leigh Fletcher, Therese Encrenaz, Richard Cosentino, Thierry Fouchet, Rohini Giles, Raul Morales-Juberias
- 036 Francesca DeMeo, Schelte J. Bus, Michael Marsset, David Polishook, Brian Burt, Cristina Thomas, Richard P. Binzel, Nicholas Moskovitz, Andrew Rivkin
- 037 Lauren McGraw, Josh Emery, Cristina Thomas, Andy Rivkin
- 040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer
- 041 Joe Llama, Jayne Birkby, Melissa McClure
- 043 Marcel Popescu, Julia de Leon, Javier Licandro, Ioana Lucia Boaca
- 044 Sean Brittain, Joan Najita, John Carr
- 048 Driss Takir, Joshua Emery
- 051 Andrew Rivkin, Ellen Howell, Josh Emery
- 057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall
- 059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle
- 066 Mohammad Saki, Erika Gibb, Nathan Roth, Neil Dello Russo, Michael DiSanti, Boncho Bonev, Ron Vervack, Adam McKay, Lori Feaga
- 069 Carey Lisse, Mike Sitko, Massimo Marengo, Stephen Kane, Steve Desch
- 070 Adwin Boogert, Andrew Barr, Xander Tielens, Ryan Dungee, John Lacy, Matt Richter, Curtis DeWitt, Ed Montiel, Jacqueline Keane
- 072 Courtney Dressing, Ellianna Schwab Abrahams, Kevin Hardegree-Ullman, Joshua Schlieder, Steven Giacalone, Jordan Fleming, Andrew Mayo, Jessie Christiansen
- 073 James Sinclair, Thomas Greathouse, Rohini Giles, Glenn Orton, Leigh Fletcher, Fachreddin Tabataba-Vakili
- 075 Silvia Protopapa, Michael S.P. Kelley, Bin Yang, Dennis Bodewits, Emmanuel Jehin, Quan-Zhi Ye
- 077 Carey Lisse, Mike Sitko, Hans Moritz Gunther, Scott Wolk
- 078 Michael McCarthy, Brett McGuire, Kelvin Lee, Matthew Richter
- 081 Phillip Stancil, Ziwei Zhang, John Lacy, Matt Richter
- 086 Eric Gaidos, Jennifer van Saders, Peter Plavchan, Bryson Cale
- 089 Christine Chen, Sean Brittain, Brandon Johnson, Casey Lisse
- 093 Tracy Beck, Matt Richter, Gail Schaefer
- 096 William Fischer, Agata Karska, Marta Sewilo, Lars Kristensen, Beata Deko-Szymankiewicz
- 097 Adwin Boogert
- 103 Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Mar. 1 Fr	06:20 06:30	G			---		facility close
Mar. 1 Fr	18:30 19:00	G			---		facility open
	19:00 06:20	G	X	051 Rivkin	SpeX	SJB	
Mar. 2 Sa	06:20 06:30	G			---		facility close
Mar. 2 Sa	18:30 19:00	G,E			---		facility open
	19:00 06:20	G,E	X	051 Rivkin	SpeX	SJB	
Mar. 3 Su	06:20 06:30	G			---		facility close
Mar. 3 Su	18:30 19:00	E			---		facility open
	19:00 23:59	E	X	096 Fischer	SpeX	ACB	
	23:59 05:50	E		999 Engineering	TBD	SJB	
Mar. 4 Mo	05:50 06:20	E	X	040 Rathbun	SpeX	SJB	Service Obs.
	06:20 06:30	E			---		facility close
Mar. 4 Mo	18:30 19:00	E			---		facility open
	19:00 06:20	E		999 Engineering	TBD	SJB	
Mar. 5 Tu	06:20 06:30	E			---		facility close
Mar. 5 Tu	18:30 19:00	E,C			---		facility open
	19:00 06:20	E,C		999 Engineering	TBD	SJB	
Mar. 6 We	06:20 06:30	E			---		facility close
Mar. 6 We	19:15 19:45	C			---		facility open
	19:45 05:35	C	X	003 Fieber-Beyer	SpeX	SJB	
Mar. 7 Th	05:35 07:05	C	X	040 Rathbun	SpeX	SJB	
	07:05 07:15	C			---		facility close
Mar. 7 Th	18:30 19:00	C			---		facility open
	19:00 06:20	C	X	011 Reddy	SpeX/MORIS	SJB	
Mar. 8 Fr	06:20 06:30	C			---		facility close
Mar. 8 Fr	18:30 19:00	C,G,W			---		facility open
	19:00 05:50	C,G,W	X	075 Protopapa	SpeX/MORIS	MSC	
Mar. 9 Sa	05:50 06:20	C	X	040 Rathbun	SpeX	MSC	Service Obs.
	06:20 06:30	C			---		facility close
Mar. 9 Sa	18:30 19:00	G,W			---		facility open
	19:00 06:20	G,W	X	031 Becker	SpeX/MORIS	MSC	
Mar. 10 Su	06:20 06:30	G,W			---		facility close
Mar. 10 Su	18:30 19:00	G,W			---		facility open
	19:00 05:50	G,W	X	072 Dressing	SpeX	MSC	
Mar. 11 Mo	05:50 06:20	G,W	X	040 Rathbun	SpeX	MSC	Service Obs.
	06:20 06:30	G,W			---		facility close
Mar. 11 Mo	18:30 19:00	G,W,E			---		facility open
	19:00 05:50	G,W,E		042 Longstaff	SpeX	SJB	First Night
Mar. 12 Tu	05:50 06:20	G,W	X	040 Rathbun	SpeX	SJB	Service Obs.
	06:20 06:30	G,W			---		facility close
Mar. 12 Tu	18:30 19:00	E			---		facility open
	19:00 06:20	E		042 Longstaff	SpeX	SJB	

Mar. 13	We	06:20	06:30	E					---	facility close		
Mar. 13	We	18:30	19:00	E					---	facility open		
		19:00	06:20	E		042	Longstaff	SpeX			SJB	
Mar. 14	Th	06:20	06:30	E					---	facility close		
Mar. 14	Th	18:30	19:00	E,M					---	facility open		
		19:00	23:45	E,M	X	059	Howell	SpeX			SJB	
		23:45	04:45	E	X	103	Thomas	SpeX/MORIS			MSC	
Mar. 15	Fr	04:45	06:20	E		999	Engineering	TBD			SJB	
		06:20	06:30	E					---	facility close		
Mar. 15	Fr	18:30	19:00	M					---	facility open		
		19:00	06:20	M	X	105	Faherty	SpeX			ACB	
Mar. 16	Sa	06:20	06:30	M					---	facility close		
Mar. 16	Sa	18:30	19:00	M					---	facility open		
		19:00	06:20	M	X	105	Faherty	SpeX			ACB	
Mar. 17	Su	06:20	06:30	M					---	facility close		
Mar. 17	Su	18:30	19:00	M,O					---	facility open		
		19:00	23:45	M,O	X	059	Howell	SpeX			SJB	
		23:45	05:50	M	X	046	Bus	SpeX/MORIS			SJB	
Mar. 18	Mo	05:50	06:20	M	X	040	Rathbun	SpeX			SJB	Service Obs.
		06:20	06:30	M					---	facility close		
Mar. 18	Mo	18:30	19:00	O					---	facility open		
		19:00	06:20	O	X	100	Zhang	SpeX			MSC	
Mar. 19	Tu	06:20	06:30	O					---	facility close		
Mar. 19	Tu	18:30	19:00	O					---	facility open		
		19:00	05:50	O	X	100	Zhang	SpeX			MSC	
Mar. 20	We	05:50	06:20	O	X	040	Rathbun	SpeX			MSC	Service Obs.
		06:20	06:30	O					---	facility close		
Mar. 20	We	18:30	19:00	O,E					---	facility open		
		19:00	23:59	O,E	X	059	Howell	SpeX			SJB	
		23:59	04:50	O	X	046	Bus	SpeX/MORIS			SJB	
Mar. 21	Th	04:50	05:20	O	X	040	Rathbun	SpeX			SJB	Service Obs.
		05:20	06:20	O	X	079	Corlies	SpeX			SJB	Service Obs.
		06:20	06:30	O					---	facility close		
Mar. 21	Th	18:30	19:00	E					---	facility open		
		19:00	06:20	E	X	020	Arredondo	SpeX/MORIS			MSC	
Mar. 22	Fr	06:20	06:30	E					---	facility close		
Mar. 22	Fr	18:30	19:00	E					---	facility open		
		19:00	22:00	E	X	077	Lisse	SpeX/MORIS			SJB	
		22:00	03:50	E	X	069	Lisse	SpeX/MORIS			SJB	
Mar. 23	Sa	03:50	05:20	E	X	040	Rathbun	SpeX			SJB	
		05:20	06:20	E	X	079	Corlies	SpeX			SJB	Service Obs.
		06:20	06:30	E					---	facility close		

Mar. 23 Sa	18:30	19:00	E,C,W				---	facility open		
	19:00	02:20	E,C,W	X	057	Shahbandeh	SpeX/MORIS		ACB	
Mar. 24 Su	02:20	06:20	E	X	045	Honniball	SpeX		SJB	
	06:20	06:30	E				---	facility close		
Mar. 24 Su	18:30	19:00	C,W				---	facility open		
	19:00	23:59	C,W	X	037	McGraw	SpeX		SJB	
	23:59	02:20	C,W	X	011	Reddy	SpeX/MORIS		SJB	
Mar. 25 Mo	02:20	06:20	C,W	X	045	Honniball	SpeX		SJB	
	06:20	06:30	C,W				---	facility close		
Mar. 25 Mo	18:30	19:00	C,W				---	facility open		
	19:00	22:00	C,W	X	063	Connelley	SpeX		MSC	
	22:00	02:20	C,W	X	011	Reddy	SpeX/MORIS		SJB	
Mar. 26 Tu	02:20	06:20	C,W	X	045	Honniball	SpeX		SJB	
	06:20	06:30	C,W				---	facility close		
Mar. 26 Tu	18:30	19:00	C,W,G,M				---	facility open		
	19:00	02:50	C,W,G,MX		100	Zhang	SpeX		MSC	
Mar. 27 We	02:50	06:20	C,W	X	045	Honniball	SpeX		SJB	
	06:20	06:30	C,W				---	facility close		
Mar. 27 We	18:30	19:00	G,M				---	facility open		
	19:00	04:50	G,M	X	100	Zhang	SpeX		MSC	
Mar. 28 Th	04:50	05:20	G,M	X	040	Rathbun	SpeX		MSC	Service Obs.
	05:20	06:20	G,M	X	079	Corlies	SpeX		MSC	Service Obs.
	06:20	06:30	G,M				---	facility close		
	10:00	16:00					---	inst. change		
Mar. 28 Th	18:30	19:00	G,M				---	facility open		
	19:00	01:40	G,M	X	022	Crossfield	iSHELL		ACB	
Mar. 29 Fr	01:40	06:20	G,M	X	097	Boogert	iSHELL		ACB	
	06:20	06:30	G,M				---	facility close		
	10:00	16:00					---	inst. change		
Mar. 29 Fr	19:20	19:50	G,M,E				---	facility open		
	19:50	05:40	G,M,E	X	020	Arredondo	SpeX/MORIS		MSC	
Mar. 30 Sa	05:40	07:10	G,M	X	040	Rathbun	SpeX		MSC	
	07:10	07:20	G,M				---	facility close		
Mar. 30 Sa	18:30	19:00	E				---	facility open		
	19:00	05:20	E	X	036	DeMeo	SpeX/MORIS		SJB	
Mar. 31 Su	05:20	06:20	E	X	079	Corlies	SpeX		SJB	Service Obs.
	06:20	06:30	E				---	facility close		
Mar. 31 Su	18:25	18:55	E				---	facility open		
	18:55	02:15	E	X	011	Reddy	SpeX/MORIS		SJB	



**Observer List****March, 2019**

003 Sherry Fieber-Beyer, Michael Gaffey, Fieber-Beyer Sherry, Gaffey, Mike  
011 Vishnu Reddy, Juan Sanchez, Allison McGraw  
020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso  
022 Ian Crossfield, Joshua Lothringer, Richard Freedman, Elisabeth Mills  
031 Savan Becker, Paul Hardersen  
036 Francesca DeMeo, Schelte J. Bus, Michael Marsset, David Polishook, Brian Burt, Cristina Thomas, Richard P. Binzel, Nicholas Moskovitz, Andrew Rivkin  
037 Lauren McGraw, Josh Emery, Cristina Thomas, Andy Rivkin  
040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer  
042 Emma Longstaff, David Pinfield, Matthew Rickard, Federico Marocco, Elena Gonzalez Egea  
045 Casey Honniball, Paul Lucey, Heather Kaluna, Driss Takir, Abigail Flom, Chiara Ferrari-Wong  
046 Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Cristina Thomas, Brian Burt, Richard Binzel, Nicholas Moskovitz, Andrew Rivkin  
051 Andrew Rivkin, Ellen Howell, Josh Emery  
057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall  
059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle  
063 Michael Connelley, Christian Flores, Bo Reipurth  
069 Carey Lisse, Mike Sitko, Massimo Marengo, Stephen Kane, Steve Desch  
072 Courtney Dressing, Ellianna Schwab Abrahams, Kevin Hardegree-Ullman, Joshua Schlieder, Steven Giacalone, Jordan Fleming, Andrew Mayo, Jessie Christiansen  
075 Silvia Protopapa, Michael S.P. Kelley, Bin Yang, Dennis Bodewits, Emmanuel Jehin, Quan-Zhi Ye  
077 Carey Lisse, Mike Sitko, Hans Moritz Gunther, Scott Wolk  
079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovics, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora  
096 William Fischer, Agata Karska, Marta Sewilo, Lars Kristensen, Beata Dekka-Szymankiewicz  
097 Adwin Boogert  
100 Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best  
103 Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin  
105 Jackie Faherty, Marc Kuchner, Jonathan Gagne, Aaron Meisner, Adam Schneider, Daniella Bardalez-Gagliuffi, Sarah Logsdon

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Apr. 1 Mo	02:15 06:15	E	X	054 Sickafoose	SpeX/MORIS	SJB	
	06:15 06:25	E		---	facility close		
Apr. 1 Mo	18:20 18:50	E,C		---	facility open		
	18:50 06:10	E,C	X	011 Reddy	SpeX/MORIS	SJB	
Apr. 2 Tu	06:10 06:20	E		---	facility close		
Apr. 2 Tu	18:20 18:50	C		---	facility open		
	18:50 02:10	C	X	995 UH_Open	TBD	SJB	
Apr. 3 We	02:10 06:10	C	X	012 Bjoraker	iSHELL	MSC	
	06:10 06:20	C		---	facility close		
Apr. 3 We	18:20 18:50	C		---	facility open		
	18:50 04:40	C	X	099 Zhang	SpeX	MSC	
Apr. 4 Th	04:40 05:10	C	X	040 Rathbun	SpeX	MSC	Service Obs.
	05:10 06:10	C	X	079 Corlies	SpeX	MSC	Service Obs.
	06:10 06:20	C		---	facility close		
Apr. 4 Th	18:20 18:50	C,G,O,W		---	facility open		
	18:50 22:30	C,G,O,WX		075 Protopapa	SpeX/MORIS	MSC	
	22:30 05:40	C,G,O,WX		099 Zhang	SpeX	MSC	
Apr. 5 Fr	05:40 06:10	C	X	040 Rathbun	SpeX	MSC	Service Obs.
	06:10 06:20	C		---	facility close		
Apr. 5 Fr	18:20 18:50	G,O,W		---	facility open		
	18:50 22:40	G,O,W	X	075 Protopapa	SpeX/MORIS	MSC	
	22:40 23:10	G,O,W		---	inst. change		
	23:10 06:10	G,O,W	X	033 Chowdhury	iSHELL	ACB	
Apr. 6 Sa	06:10 06:20	G,O,W		---	facility close		
Apr. 6 Sa	18:20 18:50	G,O,W		---	facility open		
	18:50 19:20	G,O,W		---	inst. change		
	19:20 01:30	G,O,W	X	100 Zhang	SpeX	MSC	
Apr. 7 Su	01:30 06:10	G,O,W	X	075 Protopapa	SpeX/MORIS	MSC	
	06:10 06:20	G,O,W		---	facility close		
Apr. 7 Su	18:20 18:50	G,O,W,E		---	facility open		
	18:50 01:40	G,O,W,EX		036 DeMeo	SpeX/MORIS	SJB	
Apr. 8 Mo	01:40 02:10	G,O,W		---	inst. change		
	02:10 06:10	G,O,W	X	012 Bjoraker	iSHELL	MSC	
	06:10 06:20	G,O,W		---	facility close		
	10:00 16:00			---	inst. change		
Apr. 8 Mo	18:20 18:50	E		---	facility open		
	18:50 00:30	E	X	011 Reddy	SpeX/MORIS	SJB	
Apr. 9 Tu	00:30 05:10	E	X	074 Luhman	SpeX	ACB	
	05:10 06:10	E	X	079 Corlies	SpeX	ACB	Service Obs.
	06:10 06:20	E		---	facility close		
Apr. 9 Tu	18:20 18:50	E		---	facility open		
	18:50 00:30	E		999 Engineering	SpeX	SJB	Pointing run

Apr. 10	We	00:30	05:40	E	X	074	Luhman	SpeX	ACB	
		05:40	06:10	E	X	040	Rathbun	SpeX	ACB	Service Obs.
		06:10	06:20	E			--- facility close			
Apr. 10	We	18:20	18:50	E,C			--- facility open			
		18:50	00:30	E,C	X	057	Shahbandeh	SpeX/MORIS	ACB	
Apr. 11	Th	00:30	05:40	E	X	074	Luhman	SpeX	ACB	
		05:40	06:10	E	X	040	Rathbun	SpeX	ACB	Service Obs.
		06:10	06:20	E			--- facility close			
Apr. 11	Th	18:20	18:50	C			--- facility open			
		18:50	00:30	C		999	Engineering	TBD	SJB	
Apr. 12	Fr	00:30	05:10	C	X	074	Luhman	SpeX	ACB	
		05:10	06:10	C	X	079	Corlies	SpeX	ACB	Service Obs.
		06:10	06:20	C			--- facility close			
Apr. 12	Fr	18:20	18:50	C			--- facility open			
		18:50	01:15	C		999	Engineering	TEXES	SJB	
Apr. 13	Sa	01:15	07:00	C,O		032	Greathouse	TEXES	SJB	Daylight Obs
		07:00	08:00	O		010	Giles	TEXES	SJB	Daylight Obs
	08:00	11:00	O		019	Encrenaz	TEXES	SJB	Daylight Obs	
		11:00	11:45	O			--- inst. change			
Apr. 13	Sa	11:45	11:55	O			--- facility close			
		18:20	18:50	C,G			--- facility open			
		18:50	22:50	C,G	X	045	Honniball	SpeX	SJB	
Apr. 14	Su	22:50	23:35	C,G			--- inst. change			
		23:35	01:15	C,G		999	Engineering	TEXES	SJB	
		01:15	07:00	C,M		032	Greathouse	TEXES	SJB	Daylight Obs
	07:00	08:00	M		010	Giles	TEXES	SJB	Daylight Obs	
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs	
		11:00	11:45	M			--- inst. change			
Apr. 14	Su	11:45	11:55	M			--- facility close			
		18:20	18:50	G			--- facility open			
		18:50	22:50	G	X	045	Honniball	SpeX	SJB	
Apr. 15	Mo	22:50	23:35	G			--- inst. change			
		23:35	01:15	G		999	Engineering	TEXES	SJB	
		01:15	03:15	G		068	Tsang	TEXES	SJB	
	03:15	08:00	G,M		073	Sinclair	TEXES	SJB	Daylight Obs	
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs	
		11:00	11:45	M			--- inst. change			
Apr. 15	Mo	11:45	11:55	M			--- facility close			
		18:20	18:50	G			--- facility open			
		18:50	22:50	G	X	045	Honniball	SpeX	SJB	
		22:50	23:35	G			--- inst. change			
		23:35	01:15	G		999	Engineering	TEXES	SJB	

Apr. 16 Tu	01:15	03:15	G		068	Tsang	TEXES	SJB	
	03:15	08:00	G,M		073	Sinclair	TEXES	SJB	Daylight Obs
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs
	11:00	11:45	M			--- inst. change			
	11:45	11:55	M			--- facility close			
Apr. 16 Tu	18:20	18:50	G,E			--- facility open			
	18:50	22:30	G,E	X	045	Honniball	SpeX	SJB	
	22:30	00:30	G,E	X	103	Thomas	SpeX/MORIS	MSC	
Apr. 17 We	00:30	01:15	G			--- inst. change			
	01:15	03:15	G		068	Tsang	TEXES	SJB	
	03:15	08:00	G,M		008	Antunano	TEXES	SJB	Daylight Obs
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs
	11:00	11:45	M			--- inst. change			
	11:45	11:55	M			--- facility close			
Apr. 17 We	18:20	18:50	E			--- facility open			
	18:50	00:10	E	X	072	Dressing	SpeX	MSC	
Apr. 18 Th	00:10	00:55	E			--- inst. change			
	00:55	03:15	E		068	Tsang	TEXES	SJB	
	03:15	08:00	E,M		008	Antunano	TEXES	SJB	Daylight Obs
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs
	11:00	11:45	M			--- inst. change			
	11:45	11:55	M			--- facility close			
Apr. 18 Th	18:20	18:50	E			--- facility open			
	18:50	00:10	E	X	072	Dressing	SpeX	MSC	
Apr. 19 Fr	00:10	00:55	E			--- inst. change			
	00:55	03:15	E		068	Tsang	TEXES	SJB	
	03:15	06:30	E		034	Blake	TEXES	SJB	
	06:30	08:00	M		010	Giles	TEXES	SJB	Daylight Obs
	08:00	11:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs
	11:00	11:10	M			--- facility close			
Apr. 19 Fr	18:20	18:50	E,W			--- facility open			
	18:50	22:50	E,W		081	Stancil	TEXES	SJB	
	22:50	01:00	E,W		999	Engineering	TEXES	SJB	
Apr. 20 Sa	01:00	03:00	E		068	Tsang	TEXES	SJB	
	03:00	07:00	E,M		034	Blake	TEXES	SJB	Daylight Obs
	07:00	10:00	M		019	Encrenaz	TEXES	SJB	Daylight Obs
	10:00	10:45	M			--- inst. change			
	10:45	10:55	M			--- facility close			
Apr. 20 Sa	18:20	18:50	W			--- facility open			
	18:50	21:50	W	X	059	Howell	SpeX	SJB	
	21:50	22:35	W			--- inst. change			
	22:35	02:30	W		999	Engineering	TEXES	SJB	

Apr. 21 Su	03:15	07:00	W,O		034	Blake	TEXES		SJB	Daylight Obs
	07:00	10:00	O		019	Encrenaz	TEXES		SJB	Daylight Obs
	10:00	10:45	O			--- inst. change				
	10:45	10:55	O			--- facility close				
Apr. 21 Su	18:20	18:50	W			--- facility open				
	18:50	02:30	W	X	020	Arredondo	SpeX/MORIS		MSC	
Apr. 22 Mo	02:30	03:15	W			--- inst. change				
	03:15	06:30	W		034	Blake	TEXES		SJB	
	06:30	07:00	O		010	Giles	TEXES		SJB	Daylight Obs
	07:00	10:00	O		019	Encrenaz	TEXES		SJB	Daylight Obs
	10:00	10:45	O			--- inst. change				
	10:45	10:55	O			--- facility close				
Apr. 22 Mo	18:20	18:50	W,G			--- facility open				
	18:50	00:30	W,G	X	072	Dressing	SpeX		MSC	
Apr. 23 Tu	00:30	01:15	W			--- inst. change				
	01:15	07:00	W,O		032	Greathouse	TEXES		SJB	Daylight Obs
	07:00	10:00	O		019	Encrenaz	TEXES		SJB	Daylight Obs
	10:00	10:45	O			--- inst. change				
	10:45	10:55	O			--- facility close				
Apr. 23 Tu	18:20	18:50	G			--- facility open				
	18:50	00:30	G	X	020	Arredondo	SpeX/MORIS		MSC	
Apr. 24 We	00:30	01:15	G			--- inst. change				
	01:15	07:00	G,O		032	Greathouse	TEXES		SJB	Daylight Obs
	07:00	10:00	O		019	Encrenaz	TEXES		SJB	Daylight Obs
	10:00	10:45	O			--- inst. change				
	10:45	10:55	O			--- facility close				
Apr. 24 We	18:20	18:50	G			--- facility open				
	18:50	23:40	G		999	Engineering	TBD		SJB	
	23:40	05:10	G	X	074	Luhman	SpeX		ACB	
Apr. 25 Th	05:10	06:10	G	X	079	Corlies	SpeX		ACB	Service Obs.
	06:10	06:20	G			--- facility close				
Apr. 25 Th	18:20	18:50	G,E			--- facility open				
	18:50	23:40	G,E		999	Engineering	TBD		SJB	
	23:40	05:40	G	X	074	Luhman	SpeX		ACB	
Apr. 26 Fr	05:40	06:10	G	X	040	Rathbun	SpeX		ACB	Service Obs.
	06:10	06:20	G			--- facility close				
Apr. 26 Fr	18:20	18:50	E			--- facility open				
	18:50	23:40	E		999	Engineering	TBD		SJB	
	23:40	05:10	E	X	074	Luhman	SpeX		ACB	
Apr. 27 Sa	05:10	06:10	E	X	079	Corlies	SpeX		ACB	Service Obs.
	06:10	06:20	E			--- facility close				
Apr. 27 Sa	18:20	18:50	E			--- facility open				

	18:50	23:40	E	X	011	Reddy	SpeX/MORIS	SJB	
	23:40	03:40	E	X	074	Luhman	SpeX	ACB	
Apr. 28 Su	03:40	06:10	E	X	004	Landt	SpeX	MSC	
	06:10	06:20	E			--- facility close			
Apr. 28 Su	18:20	18:50	E,C			--- facility open			
	18:50	23:15	E,C	X	020	Arredondo	SpeX/MORIS	MSC	
	23:15	05:00	E,C	X	056	Sitko	SpeX	ACB	
Apr. 29 Mo	05:00	05:40	E	X	079	Corlies	SpeX	ACB	Service Obs.
	05:40	06:10	E	X	040	Rathbun	SpeX	ACB	Service Obs.
	06:10	06:20	E			--- facility close			
Apr. 29 Mo	18:20	18:50	C			--- facility open			
	18:50	23:30	C	X	046	Bus	SpeX/MORIS	SJB	
	23:30	06:10	C	X	056	Sitko	SpeX	ACB	
Apr. 30 Tu	06:10	06:20	C			--- facility close			
Apr. 30 Tu	18:20	18:50	C			--- facility open			
	18:50	22:20	C	X	020	Arredondo	SpeX/MORIS	MSC	
	22:20	01:50	C	X	043	Popescu	SpeX/MORIS	SJB	

**Observer List****April, 2019**

- 004 Hermine Landt, Martin Ward, Jake Mitchell, Chris Packham, Keith Horne, Brad Peterson, Joerg-Uwe Pott, Andy Lawrence, Gary Ferland, Thaisa Storchi-Bergmann
- 008 Arrate Antunano, Leigh Fletcher, Thomas Greathouse, Glenn Orton, Henrik Melin, James Sinclair, Padraig Donnelly, Rohini Giles, James Blake, Michael Roman and Naomi Rowe-Gurney
- 010 Rohini Giles, Thomas Greathouse, Therese Encrenaz, Glenn Orton, James Sinclair
- 011 Vishnu Reddy, Juan Sanchez, Allison McGraw
- 012 Gordon Bjoraker, Michael H. Wong, Charles Goullaud, Glenn Orton, Csaba Palotai, Imke de Pater, Tilak Hewagama
- 019 Therese Encrenaz, Thomas Greathouse, Emmanuel Marcq, Hideo Sagawa, Thomas Widemann, Bruno Bezar, Thierry Fouchet, Sushil Atreya, Yeon Joo Lee, Rohini Giles, Shigeto Watanabe
- 020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso
- 032 Thomas Greathouse, Glenn Orton, Leigh Fletcher, Therese Encrenaz, Richard Cosentino, Thierry Fouchet, Rohini Giles, Raul Morales-Juberias
- 033 Nahid Chowdhury, Henrik Melin, Tom Stallard, Leigh Fletcher, Glenn Orton, James O'Donoghue, Luke Moore
- 034 James Blake, Leigh Fletcher, Thomas Greathouse, Glenn Orton, Henrik Melin
- 036 Francesca DeMeo, Schelte J. Bus, Michael Marsset, David Polishook, Brian Burt, Cristina Thomas, Richard P. Binzel, Nicholas Moskovitz, Andrew Rivkin
- 040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer
- 043 Marcel Popescu, Julia de Leon, Javier Licandro, Ioana Lucia Boaca
- 045 Casey Honniball, Paul Lucey, Heather Kaluna, Driss Takir, Abigail Flom, Chiara Ferrari-Wong
- 046 Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Cristina Thomas, Brian Burt, Richard Binzel, Nicholas Moskovitz, Andrew Rivkin
- 054 Amanda Sickafoose, Carlos Zuluaga, Amanda Bosh, Stephen Levine, Michael Person
- 056 Michael Sitko, Ray Russell, Carol Grady, William Danchi, Jon Mauerhan
- 057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall
- 059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle
- 068 Constantine Tsang, John Spencer, Thomas Greathouse, Emmanuel Lellouch
- 072 Courtney Dressing, Ellianna Schwab Abrahams, Kevin Hardegree-Ullman, Joshua Schlieder, Steven Giacalone, Jordan Fleming, Andrew Mayo, Jessie Christiansen
- 073 James Sinclair, Thomas Greathouse, Rohini Giles, Glenn Orton, Leigh Fletcher, Fachreddin Tabataba-Vakili
- 074 Kevin Luhman, Taran Esplin
- 075 Silvia Protopapa, Michael S.P. Kelley, Bin Yang, Dennis Bodewits, Emmanuel Jehin, Quan-Zhi Ye
- 079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovics, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora
- 081 Phillip Stancil, Ziwei Zhang, John Lacy, Matt Richter
- 099 Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best
- 100 Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best
- 103 Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
May. 1 We	01:50 03:20	C	X	040 Rathbun	SpeX	MSC	
	03:20 06:10	C	X	020 Arredondo	SpeX/MORIS	MSC	
	06:10 06:20	C		---	facility close		
	10:00 16:00			---	inst. change		
May. 1 We	18:15 18:45	C,G,W		---	facility open		
	18:45 21:55	C,G,W	X	017 Trilling	MIRSI/MOC	SJB	First Night
	21:55 22:25	C,G,W		---	inst. change		
	22:25 06:05	C,G,W	X	099 Zhang	SpeX	MSC	
May. 2 Th	06:05 06:15	C		---	facility close		
May. 2 Th	18:15 18:45	G,W		---	facility open		
	18:45 22:25	G,W	X	011 Reddy	SpeX/MORIS	SJB	
	22:25 04:55	G,W	X	099 Zhang	SpeX	MSC	
May. 3 Fr	04:55 05:35	G,W	X	079 Corlies	SpeX	MSC	Service Obs.
	05:35 06:05	G,W	X	040 Rathbun	SpeX	MSC	Service Obs.
	06:05 06:15	G,W		---	facility close		
	10:00 16:00			---	inst. change		
May. 3 Fr	18:15 18:45	G,W		---	facility open		
	18:45 06:05	G,W		999 Engineering	BASS	SJB	
May. 4 Sa	06:05 06:15	G,W		---	facility close		
May. 4 Sa	18:15 18:45	G,W,E		---	facility open		
	18:45 06:05	G,W,E		056 Sitko	BASS	ACB	
May. 5 Su	06:05 06:15	G,W		---	facility close		
May. 5 Su	18:15 18:45	E		---	facility open		
	18:45 06:05	E		056 Sitko	BASS	ACB	
May. 6 Mo	06:05 06:15	E		---	facility close		
May. 6 Mo	18:15 18:45	E		---	facility open		
	18:45 06:05	E		056 Sitko	BASS	ACB	
May. 7 Tu	06:05 06:15	E		---	facility close		
	10:00 16:00			---	inst. change		
May. 7 Tu	18:15 18:45	E,C		---	facility open		
	18:45 03:35	E,C	X	046 Bus	SpeX/MORIS	SJB	
May. 8 We	03:35 05:05	E	X	040 Rathbun	SpeX	SJB	
	05:05 06:05	E	X	079 Corlies	SpeX	SJB	Service Obs.
	06:05 06:15	E		---	facility close		
May. 8 We	18:15 18:45	C		---	facility open		
	18:45 02:55	C	X	011 Reddy	SpeX/MORIS	SJB	
May. 9 Th	02:55 03:35	C	X	079 Corlies	SpeX	SJB	Service Obs.
	03:35 06:05	C	X	004 Landt	SpeX	MSC	
	06:05 06:15	C		---	facility close		
	10:00 16:00			---	inst. change		
May. 9 Th	18:15 18:45	C		---	facility open		
	18:45 23:55	C	X	017 Trilling	MIRSI/MOC	SJB	



	23:55	00:25	C				---	inst. change		
May. 10 Fr	00:25	06:05	C	X	092	Goto		iSHELL		ACB
	06:05	06:15	C				---	facility close		
	10:00	16:00					---	inst. change		
May. 10 Fr	18:15	18:45	C,G,M				---	facility open		
	18:45	00:10	C,G,M	X	057	Shahbandeh		SpeX/MORIS		ACB
May. 11 Sa	00:10	00:40	C				---	inst. change		
	00:40	06:05	C	X	092	Goto		iSHELL		ACB
	06:05	06:15	C				---	facility close		
May. 11 Sa	18:15	18:45	G,M				---	facility open		
	18:45	19:15	G,M				---	inst. change		
	19:15	23:15	G,M	X	045	Honniball		SpeX		MSC
	23:15	06:05	G,M	X	056	Sitko		SpeX		ACB
May. 12 Su	06:05	06:15	G,M				---	facility close		
May. 12 Su	18:15	18:45	G,C				---	facility open		
	18:45	22:45	G,M	X	045	Honniball		SpeX		MSC
	22:45	05:05	G,M	X	056	Sitko		SpeX		ACB
May. 13 Mo	05:05	06:05	G,M	X	079	Corlies		SpeX		MSC Service Obs.
	06:05	06:15	G,M				---	facility close		
May. 13 Mo	18:15	18:45	G,M,E				---	facility open		
	18:45	22:45	G,M,E	X	045	Honniball		SpeX		MSC
	22:45	01:00	G,M,E	X	103	Thomas		SpeX/MORIS		MSC
May. 14 Tu	01:00	01:30	G,M	X	040	Rathbun		SpeX		MSC Service Obs.
	01:30	06:05	G,M	X	063	Connelley		SpeX		MSC
	06:05	06:15	G,M				---	facility close		
May. 14 Tu	18:15	18:45	E				---	facility open		
	18:45	22:45	E	X	045	Honniball		SpeX		MSC
	22:45	06:05	E	X	063	Connelley		SpeX		MSC
May. 15 We	06:05	06:15	E				---	facility close		
	10:00	16:00					---	inst. change		
May. 15 We	18:15	18:45	E				---	facility open		
	18:45	06:05	E	X	022	Crossfield		iSHELL		ACB
May. 16 Th	06:05	06:15	E				---	facility close		
May. 16 Th	18:15	18:45	E,C,W				---	facility open		
	18:45	23:45	E,C,W	X	022	Crossfield		iSHELL		ACB
	23:45	01:15	E	X	040	Rathbun		iSHELL		ACB
May. 17 Fr	01:15	06:05	E	X	022	Crossfield		iSHELL		ACB
	06:05	06:15	E				---	facility close		
	10:00	16:00					---	inst. change		
May. 17 Fr	18:15	18:45	C,W				---	facility open		
	19:00	23:00	C,W	X	037	McGraw		SpeX		SJB
	23:00	01:45	C,W	X	023	Hardersen		SpeX/MORIS		SJB

May. 18 Sa	01:45	02:15	C,W	X	040	Rathbun	SpeX	SJB	Service Obs.
	02:15	02:55	C,W	X	079	Corlies	SpeX	SJB	Service Obs.
	02:55	06:05	C,W	X	003	Fieber-Beyer	SpeX	SJB	
	06:05	06:15	C,W			--- facility close			
May. 18 Sa	18:15	18:45	C,W			--- facility open			
	18:45	06:05	C,W	X	003	Fieber-Beyer	SpeX	SJB	
May. 19 Su	06:05	06:15	C,W			--- facility close			
May. 19 Su	18:15	18:45	C,W,O			--- facility open			
	18:45	23:15	C,W,O	X	059	Howell	SpeX	SJB	
	23:15	23:45	C,W,O	X	040	Rathbun	SpeX	SJB	Service Obs.
	23:45	03:45	C,W	X	054	Sickafoose	SpeX/MORIS	SJB	
May. 20 Mo	03:45	06:05	C,W	X	004	Landt	SpeX	MSC	
	06:05	06:15	C,W			--- facility close			
May. 20 Mo	18:15	18:45	O			--- facility open			
	18:45	23:55	O	X	003	Fieber-Beyer	SpeX	SJB	
	23:55	00:25	O			--- inst. change			
May. 21 Tu	00:25	06:05	O	X	038	Dinerstein	iSHELL	ACB	
	06:05	06:15	O			--- facility close			
	10:00	16:00				--- inst. change			
May. 21 Tu	18:15	18:45	O			--- facility open			
	18:45	23:55	O	X	036	DeMeo	SpeX/MORIS	SJB	
	23:55	00:25	O			--- inst. change			
May. 22 We	00:25	06:05	O	X	038	Dinerstein	iSHELL	ACB	
	06:05	06:15	O			--- facility close			
	10:00	16:00				--- inst. change			
May. 22 We	18:15	18:45	O,E			--- facility open			
	18:45	23:55	O,E	X	036	DeMeo	SpeX/MORIS	SJB	
	23:55	00:25	O			--- inst. change			
May. 23 Th	00:25	06:05	O	X	038	Dinerstein	iSHELL	ACB	
	06:05	06:15	O			--- facility close			
May. 23 Th	18:15	18:45	E			--- facility open			
	18:45	21:45	E		999	Engineering	TBD	SJB	
	21:45	01:30	E	X	054	Sickafoose	SpeX/MORIS	SJB	
May. 24 Fr	01:30	03:00	E	X	040	Rathbun	SpeX	ACB	
	03:00	06:05	E	X	060	Lisse	SpeX/MORIS	ACB	
	06:05	06:15	E			--- facility close			
May. 24 Fr	18:15	18:45	E			--- facility open			
	18:45	23:59	E	X	037	McGraw	SpeX	SJB	
	23:59	00:30	E			--- inst. change			
May. 25 Sa	00:30	06:05	E	X	080	Moore	iSHELL	ACB	
	06:05	06:15	E			--- facility close			
May. 25 Sa	18:15	18:45	E			--- facility open			

	18:45	19:15	E				---	inst. change			
	19:15	23:59	E	X	037	McGraw		SpeX			SJB
	23:59	00:30	E				---	inst. change			
May. 26 Su	00:30	05:35	E	X	080	Moore		iSHELL			ACB
	05:35	06:05	E				---	inst. change			
	06:05	06:15	E				---	facility close			
May. 26 Su	18:15	18:45	M				---	facility open			
	18:45	00:25	M	X	059	Howell		SpeX			SJB
May. 27 Mo	00:25	00:55	M				---	inst. change			
	00:55	05:35	M	X	080	Moore		iSHELL			ACB
	05:35	06:05	M				---	inst. change			
	06:05	06:15	M				---	facility close			
May. 27 Mo	18:15	18:45	M				---	facility open			
	18:45	22:30	M	X	999	Engineering		SpeX			SJB V. Reddy
	22:30	23:00	M				---	inst. change			
	23:00	06:05	M	X	012	Bjoraker		iSHELL			MSC
May. 28 Tu	06:05	06:15	M				---	facility close			
	10:00	16:00					---	inst. change			
May. 28 Tu	18:15	18:45	M,G				---	facility open			
	18:45	22:05	M,G	X	037	McGraw		SpeX			SJB
	22:05	22:35	M,G				---	inst. change			
	22:35	06:05	M,G	X	033	Chowdhury		iSHELL			ACB
May. 29 We	06:05	06:15	M				---	facility close			
	10:00	16:00					---	inst. change			
May. 29 We	18:15	18:45	G,M				---	facility open			
	18:45	00:25	G,M	X	059	Howell		SpeX			SJB
May. 30 Th	00:25	03:35	G,M	X	075	Protopapa		SpeX/MORIS			MSC
	03:35	06:05	G,M	X	004	Landt		SpeX			MSC
	06:05	06:15	G,M				---	facility close			
May. 30 Th	18:15	18:45	G,M				---	facility open			
	18:45	21:30	G,M	X	999	Engineering		SpeX			SJB V. Reddy
	21:30	22:00	G,M				---	inst. change			
	22:00	03:30	G,M	X	012	Bjoraker		iSHELL			MSC
May. 31 Fr	03:30	05:00	G,M	X	040	Rathbun		iSHELL			MSC
	05:00	06:05	G,M		999	Engineering		TBD			MSC
	06:05	06:15	G,M				---	facility close			
	10:00	16:00					---	inst. change			
May. 31 Fr	18:15	18:45	G,E				---	facility open			
	18:45	02:00	G	X	046	Bus		SpeX/MORIS			SJB

**Observer List****May, 2019**

- 003 Sherry Fieber-Beyer, Michael Gaffey, Fieber-Beyer Sherry, Gaffey, Mike
- 004 Hermine Landt, Martin Ward, Jake Mitchell, Chris Packham, Keith Horne, Brad Peterson, Joerg-Uwe Pott, Andy Lawrence, Gary Ferland, Thaisa Storchi-Bergmann
- 011 Vishnu Reddy, Juan Sanchez, Allison McGraw
- 012 Gordon Bjoraker, Michael H. Wong, Charles Goullaud, Glenn Orton, Csaba Palotai, Imke de Pater, Tilak Hewagama
- 017 David Trilling, Michael Mommert, Joseph Hora, Howard Smith, Nicholas Moskovitz
- 020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso
- 022 Ian Crossfield, Joshua Lothringer, Richard Freedman, Elisabeth Mills
- 023 Paul Hardersen, Russell Genet
- 033 Nahid Chowdhury, Henrik Melin, Tom Stallard, Leigh Fletcher, Glenn Orton, James O'Donoghue, Luke Moore
- 036 Francesca DeMeo, Schelte J. Bus, Michael Marsset, David Polishook, Brian Burt, Cristina Thomas, Richard P. Binzel, Nicholas Moskovitz, Andrew Rivkin
- 037 Lauren McGraw, Josh Emery, Cristina Thomas, Andy Rivkin
- 038 Harriet Dinerstein, Nicholas Sterling, William Vacca
- 040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer
- 045 Casey Honniball, Paul Lucey, Heather Kaluna, Driss Takir, Abigail Flom, Chiara Ferrari-Wong
- 046 Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Cristina Thomas, Brian Burt, Richard Binzel, Nicholas Moskovitz, Andrew Rivkin
- 054 Amanda Sickafoose, Carlos Zuluaga, Amanda Bosh, Stephen Levine, Michael Person
- 056 Michael Sitko, Ray Russell, Carol Grady, William Danchi, Jon Mauerhan
- 057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall
- 059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle
- 060 Carey Lisse, Mike Sitko, Massimo Marengo, Miles Lucas
- 063 Michael Connelley, Christian Flores, Bo Reipurth
- 075 Silvia Protopapa, Michael S.P. Kelley, Bin Yang, Dennis Bodewits, Emmanuel Jehin, Quan-Zhi Ye
- 079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovics, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora
- 080 Luke Moore, Carl Schmidt, James O'Donoghue, Henrik Melin, Tom Stallard
- 092 Miwa Goto, Tom Geballe, Tomonori Usuda
- 099 Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best
- 103 Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Jun. 1 Sa	02:00 06:05	G	X	994 Orton	SpeX	SJB	
	06:05 06:15	G		---	facility close		
Jun. 1 Sa	18:20 18:50	E		---	facility open		
	18:50 06:10	E	X	046 Bus	SpeX/MORIS	SJB	
Jun. 2 Su	06:10 06:20	E		---	facility close		
Jun. 2 Su	18:20 18:50	E		---	facility open		
	18:50 02:00	E	X	046 Bus	SpeX/MORIS	SJB	
Jun. 3 Mo	02:00 06:10	E	X	994 Orton	SpeX	SJB	
	06:10 06:20	E		---	facility close		
	10:00 16:00			---	inst. change		
Jun. 3 Mo	18:20 18:50	E,C,W		---	facility open		
	18:50 06:10	E,C,W		061 Flores	iSHELL	MSC	
Jun. 4 Tu	06:10 06:20	E		---	facility close		
Jun. 4 Tu	18:20 18:50	C,W		---	facility open		
	18:50 06:10	C,W	X	082 Livengood	iSHELL	SJB	
Jun. 5 We	06:10 06:20	C,W		---	facility close		
Jun. 5 We	18:20 18:50	C,W		---	facility open		
	18:50 06:10	C,W	X	082 Livengood	iSHELL	SJB	
Jun. 6 Th	06:10 06:20	C,W		---	facility close		
Jun. 6 Th	18:20 18:50	C,W,G,O		---	facility open		
	18:50 06:10	C,W,G,OX		082 Livengood	iSHELL	SJB	
Jun. 7 Fr	06:10 06:20	C,W		---	facility close		
	10:00 16:00			---	inst. change		
Jun. 7 Fr	18:20 18:50	G,O		---	facility open		
	18:50 00:30	G,O	X	059 Howell	SpeX	SJB	
Jun. 8 Sa	00:30 02:30	G,O	X	014 Wagner	SpeX	SJB	
	02:30 03:00	G,O	X	040 Rathbun	SpeX	SJB	Service Obs.
	03:00 03:40	G,O	X	079 Corlies	SpeX	SJB	Service Obs.
	03:40 06:10	G,O	X	004 Landt	SpeX	SJB	
	06:10 06:20	G,O		---	facility close		
Jun. 8 Sa	18:20 18:50	G,O		---	facility open		
	18:50 01:10	G,O	X	011 Reddy	SpeX/MORIS	SJB	
Jun. 9 Su	01:10 01:40	G,O	X	040 Rathbun	SpeX	SJB	Service Obs.
	01:40 06:10	G,O	X	054 Sickafoose	SpeX/MORIS	SJB	
	06:10 06:20	G,O		---	facility close		
Jun. 9 Su	18:20 18:50	G,O,E		---	facility open		
	18:50 19:20	G,O,E		---	inst. change		
	19:20 00:45	G,O,E	X	084 McKay	iSHELL	SJB	
Jun. 10 Mo	00:45 06:10	G,O	X	013 Bjoraker	iSHELL	SJB	
	06:10 06:20	G,O		---	facility close		
Jun. 10 Mo	18:20 18:50	E		---	facility open		
	18:50 00:30	E	X	084 McKay	iSHELL	SJB	

Jun. 11 Tu	00:30	06:10	E	X	013	Bjoraker	iSHELL	SJB	
	06:10	06:20	E				--- facility close		
Jun. 11 Tu	18:20	18:50	E				--- facility open		
	18:50	00:05	E	X	108	Gaidos	iSHELL	SJB	
Jun. 12 We	00:05	00:35	E				--- inst. change		
	00:35	03:35	E	X	029	Holler	SpeX	SJB	
	03:35	06:10	E	X	011	Reddy	SpeX/MORIS	SJB	
	06:10	06:20	E				--- facility close		
Jun. 12 We	18:20	18:50	E,C				--- facility open		
	18:50	23:30	E,C	X	108	Gaidos	SpeX	SJB	
	23:30	00:10	E,C	X	079	Corlies	SpeX	SJB	Service Obs.
Jun. 13 Th	00:10	03:10	E	X	029	Holler	SpeX	SJB	
	03:10	03:40	E				--- inst. change		
	03:40	06:10	E	X	017	Trilling	MIRSI/MOC	SJB	
	06:10	06:20	E				--- facility close		
Jun. 13 Th	18:20	18:50	C				--- facility open		
	18:50	00:40	C	X	108	Gaidos	SpeX	SJB	
Jun. 14 Fr	00:40	03:40	C	X	029	Holler	SpeX	SJB	
	03:40	06:10	C	X	004	Landt	SpeX	SJB	
	06:10	06:20	C				--- facility close		
Jun. 14 Fr	18:20	18:50	C				--- facility open		
	18:50	00:35	C	X	020	Arredondo	SpeX/MORIS	SJB	
Jun. 15 Sa	00:35	03:35	C	X	029	Holler	SpeX	SJB	
	03:35	06:10	C	X	100	Zhang	SpeX	SJB	
	06:10	06:20	C				--- facility close		
Jun. 15 Sa	18:20	18:50	C,G,M				--- facility open		
	18:50	00:10	C,G,M	X	100	Zhang	SpeX	SJB	
Jun. 16 Su	00:10	03:10	C	X	029	Holler	SpeX	SJB	
	03:10	03:40	C				--- inst. change		
	03:40	06:10	C	X	017	Trilling	MIRSI/MOC	SJB	
	06:10	06:20	C				--- facility close		
Jun. 16 Su	18:20	18:50	G,M				--- facility open		
	18:50	19:20	G,M				--- inst. change		
	19:20	23:59	G,M	X	057	Shahbandeh	SpeX/MORIS	SJB	
	23:59	03:00	G,M	X	029	Holler	SpeX	SJB	
Jun. 17 Mo	03:00	03:30	G,M				--- inst. change		
	03:30	06:10	G,M	X	067	Teske	iSHELL	SJB	
	06:10	06:20	G,M				--- facility close		
	10:00	16:00					--- inst. change		
Jun. 17 Mo	18:20	18:50	G,M				--- facility open		
	18:50	22:40	G,M		999	Engineering	TBD	SJB	
	22:40	00:10	G,M	X	040	Rathbun	SpeX	SJB	

Jun. 18 Tu	00:10	00:50	G,M	X	079	Corlies	SpeX	SJB	Service Obs.
	00:50	03:40	G,M	X	075	Protopapa	SpeX/MORIS	SJB	
	03:40	06:10	G,M	X	004	Landt	SpeX	SJB	
	06:10	06:20	G,M			---	facility close		
	10:00	16:00				---	inst. change		
Jun. 18 Tu	18:20	18:50	G,M,E			---	facility open		
	18:50	21:30	G,M,E	X	017	Trilling	MIRSI/MOC	SJB	
	21:30	22:00	G,M,E			---	inst. change		
	22:00	00:30	G,M,E	X	089	Chen	iSHELL	SJB	
Jun. 19 We	00:30	06:10	G,M	X	038	Dinerstein	iSHELL	SJB	
	06:10	06:20	G,M			---	facility close		
Jun. 19 We	18:20	18:50	E			---	facility open		
	18:50	00:30	E	X	050	Maas	iSHELL	SJB	
Jun. 20 Th	00:30	06:10	E	X	038	Dinerstein	iSHELL	SJB	
	06:10	06:20	E			---	facility close		
Jun. 20 Th	18:20	18:50	E			---	facility open		
	18:50	00:30	E	X	050	Maas	iSHELL	SJB	
Jun. 21 Fr	00:30	06:10	E	X	038	Dinerstein	iSHELL	SJB	
	06:10	06:20	E			---	facility close		
	10:00	16:00				---	inst. change		
Jun. 21 Fr	18:20	18:50	E,C,W			---	facility open		
	18:50	03:40	E,C,W	X	023	Hardersen	SpeX/MORIS	SJB	
Jun. 22 Sa	03:40	06:10	E	X	004	Landt	SpeX	SJB	
	06:10	06:20	E			---	facility close		
Jun. 22 Sa	18:20	18:50	C,W			---	facility open		
	18:50	00:10	C,W	X	072	Dressing	SpeX	SJB	
Jun. 23 Su	00:10	00:50	C,W	X	079	Corlies	SpeX	SJB	Service Obs.
	00:50	05:40	C,W	X	047	Messineo	SpeX	SJB	First Night
	05:40	06:10	C,W			---	inst. change		
	06:10	06:20	C,W			---	facility close		
Jun. 23 Su	18:20	18:50	C,W			---	facility open		
	18:50	22:20	C,W	X	017	Trilling	MIRSI/MOC	SJB	
	22:20	22:50	C,W			---	inst. change		
	22:50	00:50	C,W	X	014	Wagner	SpeX	SJB	
Jun. 24 Mo	00:50	06:10	C,W	X	047	Messineo	SpeX	SJB	
	06:10	06:20	C,W			---	facility close		
Jun. 24 Mo	18:20	18:50	C,W,G,O			---	facility open		
	18:50	00:20	C,W,G,OX		063	Connelley	SpeX	SJB	
Jun. 25 Tu	00:20	01:50	C,W	X	040	Rathbun	SpeX	SJB	
	01:50	03:00	C,W	X	063	Connelley	SpeX	MSC	
	03:00	03:30	C,W			---	inst. change		
	03:30	06:10	C,W	X	067	Teske	iSHELL	SJB	

	06:10	06:20	C,W						---	facility close		
Jun. 25 Tu	18:20	18:50	G,O						---	facility open		
	18:50	00:10	G,O	X	076	Cale		iSHELL			MSC	
Jun. 26 We	00:10	06:10	G,O	X	053	Han		iSHELL			MSC	
	06:10	06:20	G,O						---	facility close		
Jun. 26 We	18:20	18:50	G,O						---	facility open		
	18:50	00:10	G,O	X	076	Cale		iSHELL			MSC	
Jun. 27 Th	00:10	06:10	G,O	X	053	Han		iSHELL			MSC	
	06:10	06:20	G,O						---	facility close		
Jun. 27 Th	18:20	18:50	G,O,E						---	facility open		
	18:50	23:40	G,O,E	X	076	Cale		iSHELL			MSC	
	23:40	00:10	G,O,E	X	040	Rathbun		iSHELL			MSC	Service Obs.
Jun. 28 Fr	00:10	06:10	G,O	X	053	Han		iSHELL			MSC	
	06:10	06:20	G,O						---	facility close		
Jun. 28 Fr	18:20	18:50	E						---	facility open		
	18:50	00:10	E	X	076	Cale		iSHELL			MSC	
Jun. 29 Sa	00:10	06:10	E	X	053	Han		iSHELL			MSC	
	06:10	06:20	E						---	facility close		
Jun. 29 Sa	18:20	18:50	E						---	facility open		
	18:50	00:10	E	X	076	Cale		iSHELL			MSC	
Jun. 30 Su	00:10	06:10	E	X	053	Han		iSHELL			MSC	
	06:10	06:20	E						---	facility close		
Jun. 30 Su	18:20	18:50	E,C						---	facility open		
	18:50	23:59	E,C	X	076	Cale		iSHELL			MSC	
	23:59	00:30	E	X	040	Rathbun		iSHELL			MSC	Service Obs.



**Observer List****June, 2019**

- 004 Hermine Landt, Martin Ward, Jake Mitchell, Chris Packham, Keith Horne, Brad Peterson, Joerg-Uwe Pott, Andy Lawrence, Gary Ferland, Thaisa Storchi-Bergmann
- 011 Vishnu Reddy, Juan Sanchez, Allison McGraw
- 013 Gordon Bjoraker, Tilak Hewagama, Glenn Orton
- 014 Kevin Wagner, Michael Sitko, Daniel Apai, Ammar Bayyari
- 017 David Trilling, Michael Mommert, Joseph Hora, Howard Smith, Nicholas Moskovitz
- 020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso
- 023 Paul Hardersen, Russell Genet
- 029 Bryan Holler, Leslie Young, Cathy Olkin, Will Grundy, Silvia Protopapa, Maya Yanez
- 038 Harriet Dinerstein, Nicholas Sterling, William Vacca
- 040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer
- 046 Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Cristina Thomas, Brian Burt, Richard Binzel, Nicholas Moskovitz, Andrew Rivkin
- 047 Maria Messineo, Donald F. Figer, Valentin D. Ivanov, Rosie C.-H Chen, Rolf-Peter Kudritzki, Karl M. Menten, Zhu Quingfeng, Messineo Maria
- 050 Zachary Maas, Catherine Pilachowski
- 053 Eunkyun Han, Philip Muirhead
- 054 Amanda Sickafoose, Carlos Zuluaga, Amanda Bosh, Stephen Levine, Michael Person
- 057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall
- 059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle
- 061 Christian Flores Gonzalez, Michael Connelley, Bo Reipurth
- 063 Michael Connelley, Christian Flores, Bo Reipurth
- 067 Johanna Teske, Peter Plavchan, Bryson Cale, Angelle Tanner, Eric Gaidos, Peter Gao, Jackie Faherty, Brett Addison, Alycia Weinberger, Alan Boss, Adam Burgasser
- 072 Courtney Dressing, Ellianna Schwab Abrahams, Kevin Hardegree-Ullman, Joshua Schlieder, Steven Giacalone, Jordan Fleming, Andrew Mayo, Jessie Christiansen
- 075 Silvia Protopapa, Michael S.P. Kelley, Bin Yang, Dennis Bodewits, Emmanuel Jehin, Quan-Zhi Ye
- 076 Bryson Cale, Peter Plavchan, Eric Gaidos, Andrew Mann
- 079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovic, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora
- 082 Timothy A. Livengood, John Kolasinski, Theodor Kostiuik, Tilak Hewagama, Gordon Bjoraker
- 084 Adam McKay, Michael DiSanti, Boncho Bonev, Neil Dello Russo, Ronald Vervack, Erika Gibb, Nathan Roth, Michael Kelley, Lori Feaga
- 089 Christine Chen, Sean Brittain, Brandon Johnson, Casey Lisse
- 100 Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best
- 108 Eric Gaidos, Megan Ansdell

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Jul. 1 Mo	00:30 06:10	E	X	998 Han	iSHELL	MSC	
	06:10 06:20	E		---	facility close		
Jul. 1 Mo	18:25 18:55	C		---	facility open		
	18:55 00:35	C	X	076 Cale	iSHELL	MSC	
Jul. 2 Tu	00:35 06:15	C	X	998 Han	iSHELL	MSC	
	06:15 06:25	C		---	facility close		
Jul. 2 Tu	18:25 18:55	C		---	facility open		
	18:55 23:15	C	X	076 Cale	iSHELL	MSC	
	23:15 03:35	C	X	086 Gaidos	iSHELL	ACB	
Jul. 3 We	03:35 06:15	C	X	067 Teske	iSHELL	MSC	
	06:15 06:25	C		---	facility close		
	10:00 16:00			---	inst. change		
Jul. 3 We	18:25 18:55	C,G,M		---	facility open		
	18:55 20:30	C,G,M	X	063 Connelley	SpeX	MSC	
	20:30 22:00	C,G,M	X	040 Rathbun	SpeX	MSC	
	22:00 00:15	C,G,M	X	103 Thomas	SpeX/MORIS	MSC	
Jul. 4 Th	00:15 00:55	C	X	079 Corlies	SpeX	MSC	Service Obs.
	00:55 05:45	C	X	063 Connelley	SpeX	MSC	
	05:45 06:15	C		---	inst. change		
	06:15 06:25	C		---	facility close		
Jul. 4 Th	18:25 18:55	G,M		---	facility open		
	18:55 00:35	G,M	X	087 Goto	iSHELL	ACB	
Jul. 5 Fr	00:35 06:15	G,M	X	061 Flores	iSHELL	MSC	
	06:15 06:25	G,M		---	facility close		
Jul. 5 Fr	18:25 18:55	G,M		---	facility open		
	18:55 00:35	G,M	X	087 Goto	iSHELL	ACB	
Jul. 6 Sa	00:35 06:15	G,M	X	061 Flores	iSHELL	MSC	
	06:15 06:25	G,M		---	facility close		
Jul. 6 Sa	18:25 18:55	G,M,E		---	facility open		
	18:55 00:35	G,M,E	X	087 Goto	iSHELL	ACB	
Jul. 7 Su	00:35 06:15	G,M	X	061 Flores	iSHELL	MSC	
	06:15 06:25	G,M		---	facility close		
Jul. 7 Su	18:25 18:55	E		---	facility open		
	18:55 20:30	E		999 Engineering	TBD	SJB	
	20:30 21:00	E	X	040 Rathbun	SpeX	ACB	Service Obs.
	21:00 01:00	E	X	054 Sickafoose	SpeX/MORIS	ACB	
Jul. 8 Mo	01:00 03:30	E	X	004 Landt	SpeX	MSC	
	03:30 06:15	E	X	027 Young	SpeX	ACB	
	06:15 06:25	E		---	facility close		
	10:00 16:00			---	inst. change		
Jul. 8 Mo	18:25 18:55	E		---	facility open		
	18:55 06:15	E	X	083 Burgasser	iSHELL	ACB	

Jul. 9 Tu	06:15	06:25	E				---	facility close		
Jul. 9 Tu	18:25	18:55	E,C				---	facility open		
	18:55	23:35	E,C		999	Engineering	TBD		SJB	
	23:35	03:35	E,C	X	061	Flores	iSHELL		MSC	
Jul. 10 We	03:35	06:15	E	X	067	Teske	iSHELL		MSC	
	06:15	06:25	E				---	facility close		
	10:00	16:00					---	inst. change		
Jul. 10 We	18:25	18:55	C				---	facility open		
	18:55	22:15	C	X	011	Reddy	SpeX/MORIS		ACB	
	22:15	23:45	C	X	040	Rathbun	SpeX		ACB	
	23:45	06:15	C	X	011	Reddy	SpeX/MORIS		ACB	
Jul. 11 Th	06:15	06:25	C				---	facility close		
Jul. 11 Th	18:25	18:55	C				---	facility open		
	18:55	22:55	C	X	045	Honniball	SpeX		MSC	
	22:55	23:35	C	X	079	Corlies	SpeX		MSC	Service Obs.
	23:35	06:15	C	X	031	Becker	SpeX/MORIS		MSC	
Jul. 12 Fr	06:15	06:25	C				---	facility close		
Jul. 12 Fr	18:25	18:55	C,G,O,W				---	facility open		
	18:55	22:55	C,G,O,WX		045	Honniball	SpeX		MSC	
	22:55	23:25	C,G,O,W				---	inst. change		
	23:25	05:45	C	X	993	Neufeld	iSHELL		ACB	
Jul. 13 Sa	05:45	06:15	C				---	inst. change		
	06:15	06:25	C				---	facility close		
Jul. 13 Sa	18:25	18:55	G,O,W				---	facility open		
	18:55	22:55	G,O,W	X	045	Honniball	SpeX		MSC	
	22:55	06:15	G,O,W		999	Engineering	TBD		SJB	
Jul. 14 Su	06:15	06:25	G,O,W				---	facility close		
Jul. 14 Su	18:25	18:55	G,O,W				---	facility open		
	18:55	22:55	G,O,W	X	045	Honniball	SpeX		MSC	
	22:55	23:25	G,O,W	X	040	Rathbun	SpeX		MSC	Service Obs.
	23:25	00:05	G,O,W	X	079	Corlies	SpeX		MSC	Service Obs.
Jul. 15 Mo	00:05	02:35	G,O,W	X	004	Landt	SpeX		MSC	
	02:35	03:05	G,O,W				---	inst. change		
	03:05	06:15	G,O,W	X	017	Trilling	MIRSI/MOC		MSC	
	06:15	06:25	G,O,W				---	facility close		
	10:00	16:00					---	inst. change		
Jul. 15 Mo	18:25	18:55	G,O,W,E				---	facility open		
	18:55	06:15	G,O,W,EX		020	Arredondo	SpeX/MORIS		MSC	
Jul. 16 Tu	06:15	06:25	G,O,W				---	facility close		
Jul. 16 Tu	18:25	18:55	E				---	facility open		
	18:55	00:45	E		001	Honda	SpeX		MSC	First Night
Jul. 17 We	00:45	04:45	E	X	054	Sickafoose	SpeX/MORIS		SJB	

	04:45	06:15	E		999	Engineering	TBD	SJB
	06:15	06:25	E			---	facility close	
Jul. 17 We	18:25	18:55	E			---	facility open	
	18:55	03:15	E		001	Honda	MIRSI	MSC First Night
Jul. 18 Th	03:15	06:15	E	X	017	Trilling	MIRSI/MOC	MSC
	06:15	06:25	E			---	facility close	
	10:00	16:00				---	inst. change	
Jul. 18 Th	18:25	18:55	E,C			---	facility open	
	18:55	23:45	E,C	X	057	Shahbandeh	SpeX/MORIS	ACB
	23:45	03:45	E	X	054	Sickafoose	SpeX/MORIS	SJB
Jul. 19 Fr	03:45	06:15	E	X	020	Arredondo	SpeX/MORIS	MSC
	06:15	06:25	E			---	facility close	
Jul. 19 Fr	18:00	18:30	C			---	facility open	
	18:30	20:00	C	X	040	Rathbun	SpeX	MSC
	20:00	05:20	C	X	031	Becker	SpeX/MORIS	MSC
Jul. 20 Sa	05:20	05:50	C			---	inst. change	
	05:50	06:00	C			---	facility close	
Jul. 20 Sa	17:55	18:25	C			---	facility open	
	18:25	01:00	C	X	033	Chowdhury	iSHELL	ACB
Jul. 21 Su	01:00	05:15	C	X	086	Gaidos	iSHELL	ACB
	05:15	05:45	C			---	inst. change	
	05:45	05:55	C			---	facility close	
Jul. 21 Su	18:25	18:55	C,G,M,W			---	facility open	
	18:55	06:15	C,G,M,WX		020	Arredondo	SpeX/MORIS	MSC
Jul. 22 Mo	06:15	06:25	C			---	facility close	
Jul. 22 Mo	18:25	18:55	G,M,W			---	facility open	
	18:55	06:15	G,M,W	X	046	Bus	SpeX/MORIS	SJB
Jul. 23 Tu	06:15	06:25	G,M,W			---	facility close	
Jul. 23 Tu	18:25	18:55	G,M,W			---	facility open	
	18:55	22:00	G,M,W	X	020	Arredondo	SpeX/MORIS	MSC
	22:00	22:40	G,M,W	X	079	Corlies	SpeX	MSC Service Obs.
	22:40	01:40	G,M,W	X	059	Howell	SpeX	SJB
Jul. 24 We	01:40	02:10	G,M,W			---	inst. change	
	02:10	06:15	G,M,W	X	017	Trilling	MIRSI/MOC	SJB
	06:15	06:25	G,M,W			---	facility close	
	10:00	16:00				---	inst. change	
Jul. 24 We	18:25	18:55	G,M,W,E			---	facility open	
	18:55	21:30	G,M,W,EX		020	Arredondo	SpeX/MORIS	MSC
	21:30	02:30	G,M,W,EX		037	McGraw	SpeX	SJB
Jul. 25 Th	02:30	06:15	G,M,W	X	020	Arredondo	SpeX/MORIS	MSC
	06:15	06:25	G,M,W			---	facility close	
Jul. 25 Th	18:25	18:55	E			---	facility open	

	18:55	00:20	E	X	072	Dressing	SpeX	MSC
Jul. 26 Fr	00:20	00:50	E			--- inst. change		
	00:50	06:15	E		098	Tinyanont	MIRSI	ACB First Night
	06:15	06:25	E			--- facility close		
Jul. 26 Fr	18:25	18:55	E			--- facility open		
	18:55	20:20	E		999	Engineering	TBD	SJB
	20:20	21:50	E	X	040	Rathbun	SpeX	SJB
	21:50	00:50	E	X	059	Howell	SpeX	SJB
Jul. 27 Sa	00:50	03:20	E	X	004	Landt	SpeX	MSC
	03:20	06:15	E		999	Engineering	TBD	SJB
	06:15	06:25	E			--- facility close		
Jul. 27 Sa	18:25	18:55	E,C			--- facility open		
	18:55	06:15	E,C	X	023	Hardersen	SpeX/MORIS	SJB
Jul. 28 Su	06:15	06:25	E			--- facility close		
Jul. 28 Su	18:25	18:55	C			--- facility open		
	18:55	00:15	C		065	Cotera	SpeX	ACB First Night
Jul. 29 Mo	00:15	00:55	C	X	079	Corlies	SpeX	ACB Service Obs.
	00:55	01:25	E			--- inst. change		
	01:25	06:15	C	X	997	Wendeborn	iSHELL	ACB
	06:15	06:25	C			--- facility close		
	10:00	16:00	E			--- inst. change		
Jul. 29 Mo	18:25	18:55	C			--- facility open		
	18:55	00:35	C		065	Cotera	SpeX	ACB
Jul. 30 Tu	00:35	01:05	E			--- inst. change		
	01:05	06:15	C	X	996	Grant	iSHELL	ACB
	06:15	06:25	C			--- facility close		
	10:00	16:00	E			--- inst. change		
Jul. 30 Tu	18:25	18:55	C,G			--- facility open		
	18:55	19:25	C,G	X	040	Rathbun	SpeX	SJB Service Obs.
	19:25	22:25	C,G	X	059	Howell	SpeX	SJB
	22:25	02:25	C,G	X	043	Popescu	SpeX/MORIS	SJB
Jul. 31 We	02:25	02:55	C			--- inst. change		
	02:55	06:15	C	X	017	Trilling	MIRSI/MOC	SJB
	06:15	06:25	C			--- facility close		
	10:00	16:00	E			--- inst. change		
Jul. 31 We	18:25	18:55	G			--- facility open		
	18:55	00:20	G	X	011	Reddy	SpeX/MORIS	SJB

**Observer List****July, 2019**

- 001 Mitsuhiro Honda, Tomohiro Mori, Douglas Johnstone, Gregory Herczeg, Takashi Shimonishi, Jeong-Eun Lee, Giseon Baek, Yuri Aikawa, Takashi Miyata, Takashi Onaka
- 004 Hermine Landt, Martin Ward, Jake Mitchell, Chris Packham, Keith Horne, Brad Peterson, Joerg-Uwe Pott, Andy Lawrence, Gary Ferland, Thaisa Storchi-Bergmann
- 011 Vishnu Reddy, Juan Sanchez, Allison McGraw
- 017 David Trilling, Michael Mommert, Joseph Hora, Howard Smith, Nicholas Moskovitz
- 020 Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso
- 023 Paul Hardersen, Russell Genet
- 027 Leslie Young, Will Grundy, Bryan Holler, Eliot Young
- 031 Savan Becker, Paul Hardersen
- 033 Nahid Chowdhury, Henrik Melin, Tom Stallard, Leigh Fletcher, Glenn Orton, James O'Donoghue, Luke Moore
- 037 Lauren McGraw, Josh Emery, Cristina Thomas, Andy Rivkin
- 040 Julie Rathbun, Christian Tate, Paul Corlies, Alexander Hayes, John Spencer
- 043 Marcel Popescu, Julia de Leon, Javier Licandro, Ioana Lucia Boaca
- 045 Casey Honniball, Paul Lucey, Heather Kaluna, Driss Takir, Abigail Flom, Chiara Ferrari-Wong
- 046 Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Cristina Thomas, Brian Burt, Richard Binzel, Nicholas Moskovitz, Andrew Rivkin
- 054 Amanda Sickafoose, Carlos Zuluaga, Amanda Bosh, Stephen Levine, Michael Person
- 057 Melissa Shahbandeh, Eric Hsiao, David Sand, Howie Marion, Mark Phillips, Andy Howell, Peter Hoeflich, Max Stritzinger, Chris Ashall
- 059 Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle
- 061 Christian Flores Gonzalez, Michael Connelley, Bo Reipurth
- 063 Michael Connelley, Christian Flores, Bo Reipurth
- 065 Angela Cotera, Janet Simpson
- 067 Johanna Teske, Peter Plavchan, Bryson Cale, Angelle Tanner, Eric Gaidos, Peter Gao, Jackie Faherty, Brett Addison, Alycia Weinberger, Alan Boss, Adam Burgasser
- 072 Courtney Dressing, Ellianna Schwab Abrahams, Kevin Hardegree-Ullman, Joshua Schlieder, Steven Giacalone, Jordan Fleming, Andrew Mayo, Jessie Christiansen
- 076 Bryson Cale, Peter Plavchan, Eric Gaidos, Andrew Mann
- 079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovic, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora
- 083 Adam Burgasser, Christian Aganze, Chih-chun 'Dino' Hsu, Jessica Birky, Chris Theissen, David Hogg, Andrew Mann, Kevin Covey, Cullen Blake
- 086 Eric Gaidos, Jennifer van Saders, Peter Plavchan, Bryson Cale
- 087 Miwa Goto, Jorma Hajyu, Olli Sipilä, Paola Caselli
- 098 Samaporn Tinyanont, Ryan Lau, Mansi Kasliwal
- 103 Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin

HST Date	HST Time	TO	Remote	Prog & PI	Instr	SA	Comments
Aug. 1 Th	00:20 01:00	G	X	079 Corlies	SpeX	SJB	Service Obs.
	01:00 03:30	G	X	004 Landt	SpeX	MSC	
	03:30 06:15	G	X	027 Young	SpeX	SJB	
	06:15 06:25	G		--- facility close			

## Observer List

# August, 2019

004 Hermine Landt, Martin Ward, Jake Mitchell, Chris Packham, Keith Horne, Brad Peterson, Joerg-Uwe Pott, Andy Lawrence, Gary Ferland, Thaisa Storchi-Bergmann

027 Leslie Young, Will Grundy, Bryan Holler, Eliot Young

079 Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovics, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora

HST date (Hawaii Standard Time) is listed for the first program starting after midnight (00:00) each day. Any date ambiguities should be resolved by the fact that programs are listed in strict time sequence. If you have any questions regarding the schedule or corrections, please email Bobby Bus at the following address: [sjb@ifa.hawaii.edu](mailto:sjb@ifa.hawaii.edu)

All observing must occur within the listed dates and times and only with the personnel listed on this schedule. Any changes to the dates, times, and observing personnel must be approved by the IRTF Director at least 1 month in advance; please submit requests earlier.

Support at the telescope by staff astronomers is only guaranteed for the first night of each observer's first run with an IRTF facility instrument as indicated by "First Night" in the Comments column above. Please confirm this verbally with your support astronomer.

Please return your Observing Requirements Form by the date indicated, approximately one month in advance of your run. Please note that IRTF facility instrumentation is provided as documented on our web site (<http://irtfweb.ifa.hawaii.edu>); modifications for individuals are usually not possible unless agreed upon by IRTF staff adequately in advance.

Driving IRTF vehicles is a privilege granted to observers with valid driver's license. Please read and obey our vehicle policy. This includes using IRTF vehicles only for official travel between Hilo, Hale Pohaku, and the summit at the times you have indicated. All changes to your vehicle usage must be communicated to and approved by Imai Namahoe, the IRTF Observatory Manager.

SA (Support Astronomer)  
ACB = Adwin Boogert  
MSC = Michael Connelley  
SJB = Bobby Bus  
JTR = John Rayner