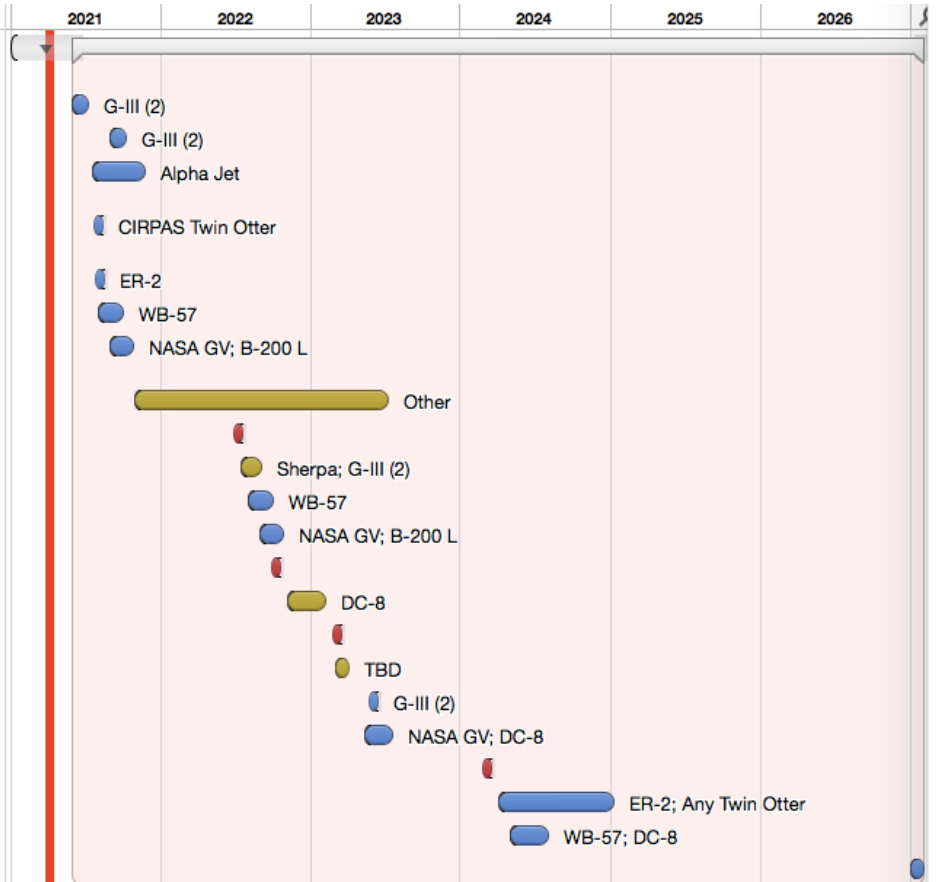


# Atmospheric Composition and Chemistry

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>1) Atmospheric Composition and Chemistry</b>									
• 1.1) MOOSE	54	Lefer	TEMPO, Sentinel 5P						
• 1.2) LISTOS	54	Lefer	TEMPO, Sentinel 5P						
• 1.3) AJAX	70	Lefer / Jucks	OCO-2, TropOmi, TEMPO						
• 1.4) C-Harrier mission	10	Lorenzoni	Aqua, PACE, Suomi, Terra						
• 1.5) SHOW test flight	20	Jucks							
• 1.6) ACCLIP test flights		Jucks	AURA						
• 1.7) TRACER-AQ TX 2021	100	Lefer	TEMPO, TROPOMI, Sentinel 5P						
• 1.8) Carbon Monitoring - TBD		Hibbard, Jucks	OCO-2, OCO-3						
• 1.9) MAIA LAUNCH		Lefer	MAIA						
• 1.10) MAIA cal/val	??	Lefer / Haynes	MAIA						
• 1.11) ACCLIP	140	Jucks	AURA						
• 1.12) TRACER-AQ 2022	100	Lefer	TEMPO, Sentinel 5P						
• 1.13) TEMPO LAUNCH		Lefer	TEMPO						
• 1.14) Atm Rivers - placeholder		Jackson / Kaye							
• 1.15) GEOCarb LAUNCH		Jucks	GEOCarb						
• 1.16) GEOCarb cal/val (AJAX?)	??	Jucks	GEOCarb						
• 1.17) GOTHAM-AQ	80	Lefer EPA	TEMPO						
• 1.18) ARCSIX	300	Maring/Markus	ICESat-2						
• 1.19) PACE LAUNCH		Lorenzoni	PACE						
• 1.20) PACE cal/val (aerosols)	100	Maring, Lorenzoni	PACE						
• 1.21) Asia-AQ - (4 locations)	150	Lefer / Jucks	GEMS, TROPOMI						
• 1.22) Africa-AQ	150	Lefer							



# Carbon Cycle and Ecosystems

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>2) Carbon Cycle &amp; Ecosystems Science</b>									
• 2.1) Delta-X	353	Margolis	SWOT	Other B-200; G-III; B-200 D					
• 2.2) LVIS-GEDI -21		Margolis	GED1	NASA GV					
• 2.3) G-LiHT Sensor fusion	TBD	Margolis	Landsat 8	A90					
• 2.4) AVIRIS-ng Europe	125	Margois	Sentinel 3B	Other B-200					
• 2.5) C-Harrier mission	10	Lorenzoni	Aqua, PACE, Suomi	CIRPAS Twin Otter					
• 2.6) Air-LUSI	6	Lorenzoni		ER-2					
• 2.7) S-BAND Experiments	30	Bawden/Margolis	NISAR	G-III					
• 2.8) UAVSAR-TE-22	20	Bawden/Margolis	NISAR	G-III					
• 2.9) AVIRIS-22	100	Turner/Margolis	SBG	Other B-200; ER-2					
• 2.10) LVIS-GEDI -22		Margolis	GED1	NASA GV					
• 2.11) ABoVE - 2022	30	Margolis	NISAR, OCO-2, ICESat 2	Other B-200; G-III					
• 2.12) Western Diversity Time Series - 22	30	Turner	SBG	ER-2					
• 2.13) Joint ESA forest mission		Margolis	ESA	G-III; G-III (2)					
• 2.14) NISAR LAUNCH			NISAR						
• 2.15) NISAR post-launch cal/val	100	Bawden	NISAR	G-III					
• 2.16) UAVSAR-TE-23	20	Bawden/Margolis	NISAR	G-III					
• 2.17) AVIRIS-23	100	Turner/Margolis	SBG	Other B-200; ER-2					
• 2.18) LVIS-GEDI -23		Margolis	GED1	NASA GV					
• 2.19) ABoVE - 2023	30	Margolis	NISAR, OCO-2, ICESat2	G-III					
• 2.20) Western Diversity Time Series - 23	30	Turner	SBG	ER-2					
• 2.21) BioSCape	250	Turner	SBG, BioMASS	NASA GV; G-III (2)					
• 2.22) PACE LAUNCH			PACE						
• 2.23) PACE Cal/Val	??	Lorenzoni	PACE	TBD; ER-2					
• 2.24) STV demo - forest topography		Margolis/Phillips	STV	G-III					
• 2.25) Western Diversity Time Series - 24	30	Turner	SBG	ER-2					
• 2.26) SBG Pathfinder	30	Turner	SBG	ER-2					
• 2.27) Arctic COLORS	100	Lorenzoni		TBD					
• 2.28) GLIMR cal/val		Lorenzoni	GLIMR	TBD					

# Climate Variability and Change / Cryosphere and Physical Oceanography

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>3) Climate Variability and Change / Cryospheric Science</b>									
• 3.1) OIB-Alaska		Markus	ICESat-2	Other					
• 3.2) ABoVE - 2021	30	Margolis	NISAR, OCO-2, ICESat 2	Other B-200; G-III					
• 3.3) SnowEX - 22	75	Entin	GCOM-W1, GPM, SCLP	Other B-200; G-III					
• 3.4) Vanilla Ice UAS mission		Markus	ICESat-2	Other					
• 3.5) Ku snow radar		Markus / ESTO	ICESat-2	P-3					
• 3.6) NISAR LAUNCH		Bawden	NISAR						
• 3.7) NISAR post-launch cal/val	100	Bawden	NISAR			G-III			
• 3.8) SWOT Launch			SWOT						
• 3.9) SWOT post-launch hydrology cal/val (AirSWOT)	120	Shiffer	SWOT			B-200 D			
• 3.10) SWOT post launch ocean cal/val (SCRIPPS MASS)	120	Shiffer	SWOT			NASA GV			
• 3.11) ICESat-2 post-launch cal/val	100	Markus	ICESat 2			P-3			
• 3.12) ARCSIX	300	Maring/Markus	ICESat-2			NASA GV; DC-8			
• 3.13) STV Tech Demo		Phillips	STV						TBD

# Weather and Atmospheric Dynamics

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>6) Weather and Atmospheric Dynamics</b>									
• 6.1) CPEX-AW	100	Jackson	ADM / GPM	DC-8					
• 6.2) TROPICS cal/val		ESTO/NOAA	TROPICS	Other					
• 6.3) High water		Jackson			DC-8				
• 6.4) Severe storm campaign/VORTEX-SE	80	Lee/Petersen	GOES-R, GPM		ER-2				
• 6.5) GOES-R cal/val	100	Jackson	GOES-R		TBD				
• 6.6) Planetary Boundary Layer technology and characterization experiments		Jackson / ESTO	PBL incubator				DC-8; Any Twin Otter		
• 6.7) GLIMR cal/val		Lorenzoni	GLIMR						TBD

# Water and Energy Cycle

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>4) Water and Energy Cycle</b>									
• 4.1) SnowEX - 21	75	Entin	ICESat-2, SBG, GPM	Other B-200; G-III					
• 4.2) SMAPVEX	100	Entin / Bawden	SMAP	DC-3					
• 4.3) DELTA-X	405	Margolis		Other B-200; G-III; B-200 D					
• 4.4) SLAP Liase	60	Entin	SMAP	B-200 L					
• 4.5) SMAPVEX / Ni-SMEX	100	Entin / Bawden	SMAP, NISAR	G-III					
• 4.6) SnowEX - 22 Alaska	75	Entin	GCOM-W1, GPM, SBG	G-III; Any Twin Otter					
• 4.7) SnowEX - 23	75	Entin	GCOM-W1, GPM, SBG			Other B-200			
• 4.8) SWOT Launch			SWOT						
• 4.9) SWOT post launch ocean cal/val (SCRIPPS MASS)	120	Shiffer	SWOT			NASA GV			
• 4.10) SWOT post-launch hydrology cal/val (AirSWOT)	120	Shiffer/Entin	SWOT			Other B-200			
• 4.11) Sea surface salinity mission in development		Entin	SMAP			DC-3			
• 4.12) SLAP support for PBL		Entin / Jackson	PBL				Other B-200		
• 4.13) PACE LAUNCH			PACE						
• 4.14) PACE Cal/Val	??	Lorenzoni	PACE						
• 4.15) PACE-coastal water quality mission		Entin/Lorenzoni	PACE				TBD; ER-2		
• 4.16) GLIMR cal/val		Lorenzoni	GLIMR				TBD		TBD

# Earth Surface and Interior

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>5) Earth Surface &amp; Interior</b>									
• 5.1) UAVSAR / EIS - 21	150	Bawden; Phillips	NISAR	G-III					
• 5.2) DSI Solicitation - 21		ESTO	PBL, STV	NASA GV					
• 5.3) QUAKES				G-III					
• 5.4) NISAR pre-launch cal/val	200	Bawden	NISAR	G-III					
• 5.5) UAVSAR / EIS - 22	150	Bawden; Phillips	NISAR	TBD					
• 5.6) UAV demo - mission in development		Phillips		G-III					
• 5.7) GLISTIN mission in development		Bawden		G-III					
• 5.8) NISAR LAUNCH			NISAR	G-III					
• 5.9) NISAR post-launch cal/val	100	Bawden	NISAR	TBD					
• 5.10) STV technology development		Phillips/ Bawden/ ESTO	STV incubator	ER-2					
• 5.11) STV Tech Demo		Phillips	STV	TBD					
• 5.12) SBG Pathfinder	30	Turner	SBG	TBD					

# Earth Venture Suborbital

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026
<b>7) EVS-2</b>									
• 7.1) OMG-21-AXCTD	75	Maring		DC-3					
<b>8) EVS-3</b>									
• 8.1) ACTIVATE - 2021	1200	Lefer	Calipso	Falcon; B-200 L					
• 8.2) ACTIVATE - 2022	1200	Lefer	Calipso	Falcon; B-200 L					
• 8.3) Delta-X	353	Margolis	SWOT	Other B-200; G-III; B-200 D					
• 8.4) DCOTSS - 2021	272	Jucks		ER-2					
• 8.5) DCOTSS - 2022	272	Jucks		ER-2					
• 8.6) S-MODE tests - 2021		Shiffer	SWOT	G-III (2)					
• 8.7) S-MODE - 2022		Shiffer	SWOT	G-III (2); B-200 D; Any Twin Otter					
• 8.8) S-MODE - 2023		Shiffer	SWOT	G-III (2); B-200 D; Any Twin Otter					
• 8.9) IMPACTS - 2022	600	Jackson	GPM, GOES-R, CloudSat	P-3; ER-2					
• 8.10) IMPACTS - 2023	600	Jackson	GPM, GOES-R, CloudSat	P-3; ER-2					
• 8.11) EVS-4				TBD					

# Technology / Instrument Development

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025
<b>9) New Technology / PI **no FR</b>								
• 9.1) CMIS / Kelly	15	IIP		● G-III (2)				
• 9.2) AirMSPI-2 / Diner	18	AITT		● ER-2				
• 9.3) DAGR / Newman	20	Jucks		● Other				
• 9.4) IIP Solicitation - 21		ESTO						
• 9.5) DSI Solicitation - 21		ESTO	PBL, STV					
• 9.6) SHOW test flight	20	Jucks		● ER-2				
• 9.7) CoSSIR / Adams	10	AITT		● ER-2				
• 9.8) Air-MASTR / Sanchez-Barberty		IIP16		● DC-8				
• 9.9) CAMLS / Livesey	12	IIP		● ER-2				
• 9.10) **VIPR / Cooper**		AITT		● P-3 or DC-8				
• 9.11) **KU Multi-channel snow radar / Paden**		AITT		● P-3				
• 9.12) **CHAPS-D / Swartz**		IIP		● TBD				
• 9.13) 3D Cloud Scanner / Martins	20	AITT		● ER-2				
• 9.14) **ABLE / Nehrir**		IIP	PBL	● DC-8				
• 9.15) SLI-T Solicitation - 22		ESTO						
• 9.16) IIP Solicitation - 23		ESTO						
• 9.17) Planetary Boundary Layer technology development		Jackson / ESTO	PBL incubator				● DC-8; Any Twin Otter	
• 9.18) STV technology development / Tech demo		Phillips/Bawden/ ESTO	STV incubator				● TBD	
• 9.19) DSI Solicitation - 24		ESTO	PBL, STV					
• 9.20) IIP Solicitation - 25		ESTO						

# Applied Sciences

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025
<b>▼ 10) Applied Science</b>								
• 10.1) Disaster response		Green		TBD				
• 10.2) Airborne Snow Observatory	50	Entin/Doorn		A90				
• 10.3) California methane survey	10	Kaye		Other B-200				
• 10.4) SacDeltaLevees-CDWR	32	Bawden/Green		G-III				
• 10.5) California methane survey	10	Kaye			Other B-200			
• 10.6) SacDeltaLevees-CDWR	32	Bawden/Green			G-III			
• 10.7) MAIA cal/val	??	Lefer / Haynes	MAIA		TBD; Sherpa			
• 10.8) NISAR LAUNCH			NISAR					
• 10.9) GEOCarb LAUNCH			GEOCarb					
• 10.10) SacDeltaLevees-CDWR	32	Bawden/Green				G-III		
• 10.11) PACE LAUNCH			PACE					

# Education

<b>▼ 11) Education</b>								
• 11.1) SARP 2021	14	Kaye; Tagg		Other B-200				
• 11.2) SARP 2022	14	Kaye; Tagg		DC-8				
• 11.3) SARP 2023	14	Kaye, Tagg			DC-8			
• 11.4) SARP 2024	14	Kaye, Tagg				DC-8		
• 11.5) SARP 2025	14	Kaye, Tagg					DC-8	