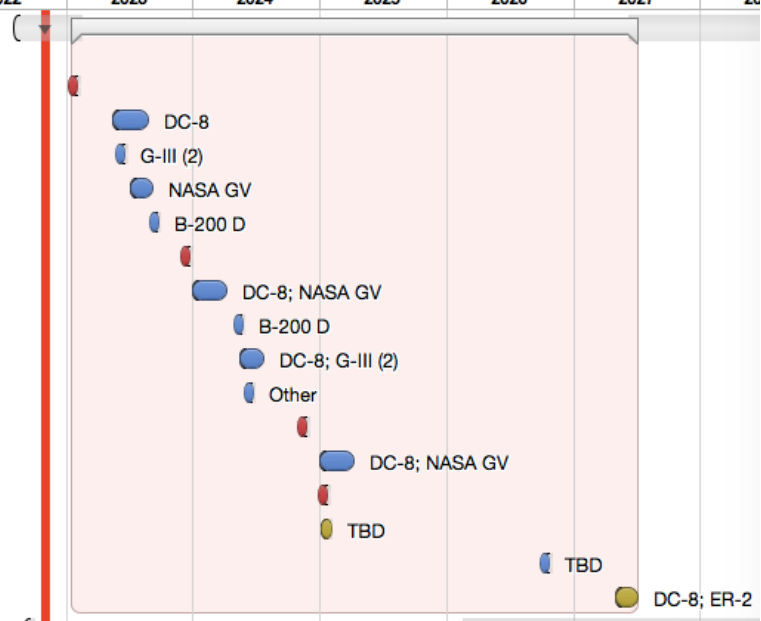


# Atmospheric Composition and Chemistry

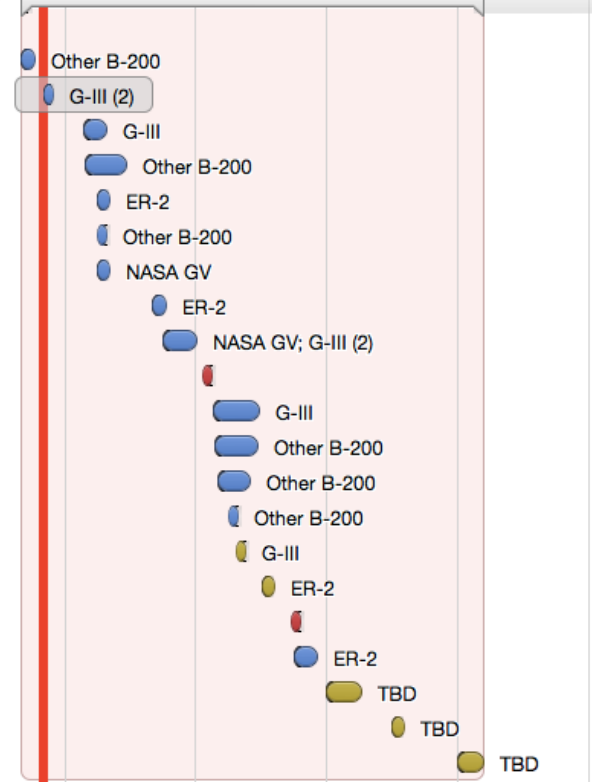
Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026	2027	2028
▼ 1) Atmospheric Composition and Chemistry											
• 1.1) TEMPO LAUNCH		Lefer	TEMPO								
• 1.2) AEROMMA	200	Lefer	GOER-R, TEMPO, SNPP								
• 1.3) GOTHAMM-AQ	80	Lefer EPA	TEMPO								
• 1.4) STAQS	100	Lefer	TEMPO, Sentinel 5P								
• 1.5) FireSense Demo		Lefer									
• 1.6) PACE LAUNCH		Lorenzoni	PACE								
• 1.7) Asia-AQ (Phase1)	200	Lefer / Jucks	GEMS, TROPOMI								
• 1.8) FireSense Demo -2		Lefer									
• 1.9) ARCSIX	300	Maring/Markus	ICESat-2								
• 1.10) FireSense UAS Demo		Lefer									
• 1.11) MAIA LAUNCH		Lefer	MAIA								
• 1.12) Asia-AQ (Phase2)	200	Lefer / Jucks	GEMS, TROPOMI								
• 1.13) GEOCarb LAUNCH		Jucks	GEOCarb								
• 1.14) GEOCarb cal/val (AJAX?)	??	Jucks	GEOCarb								
• 1.15) AOS Suborbital prep		Maring	AOS								
• 1.16) FIREX-AQ (2)	150	Lefer									



# Carbon Cycle and Ecosystems

## Terrestrial Ecology, Biodiversity, Carbon Monitoring

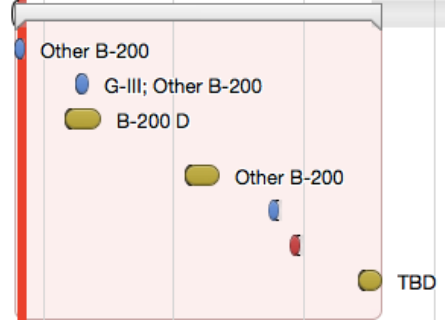
Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026	2027
<b>2) Carbon Cycle &amp; Ecosystems Science</b>										
• 2.1) SHIFT	20	Turner	SBG							
• 2.2) LVIS-GEDI -22		GSFC	GEDI							
• 2.3) UAVSAR-TE-23	20	Bawden/Margolis	NISAR							
• 2.4) BLUEFLIX (CMS) - 23	150	Hibbard								
• 2.5) WDTS - 23 spring	30	Turner	SBG							
• 2.6) AVIRIS-23	20	Turner/Margolis	SBG							
• 2.7) LVIS-GEDI -23		Margolis	GEDI							
• 2.8) Western Diversity - 23 fall	30	Turner	SBG							
• 2.9) BioSCape	250	Turner	SBG, BioMASS							
• 2.10) NISAR LAUNCH			NISAR							
• 2.11) UAVSAR-TE-24	60	Bawden/Margolis	NISAR							
• 2.12) BLUEFLIX (CMS) - 24	150	Hibbard								
• 2.13) SHIFT - repeat	20	Turner	SBG							
• 2.14) AVIRIS-24	20	Turner/Margolis	SBG							
• 2.15) STV demo - forest topography		Margolis/Phillips	STV							
• 2.16) Western Diversity - 24	30	Turner	SBG							
• 2.17) PACE LAUNCH			PACE							
• 2.18) PACE PAX		Lorenzoni	PACE							
• 2.19) SBG Pathfinder	30	Turner	SBG							
• 2.20) Arctic COLORS	100	Lorenzoni								
• 2.21) GLIMR cal/val		Lorenzoni	GLIMR							



# Water and Energy Cycle

## Terrestrial Hydrology

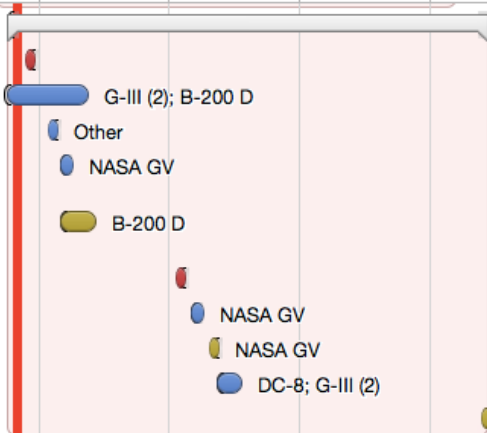
Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026	2027
<b>4) Water and Energy Cycle</b> <ul style="list-style-type: none"> <li>4.1) SnowEX / SWESAR</li> <li>4.2) SnowEX / AVIRIS / UAVSAR - 23</li> <li>4.3) SWOT post-launch hydrology cal/val (AirSWOT)</li> <li>4.4) SLAP support for PBL</li> <li>4.5) SnowEX - 24 (?)</li> <li>4.6) PACE LAUNCH</li> <li>4.7) PACE-coastal water quality mission (PRISM?)</li> </ul>										
		Entin	GCOM-W1							
	75	Entin	GCOM-W1, GPM, SBG							
	120	Shiffer	SWOT							
		Entin	PBL							
		Entin	PACE							
		Entin/Lorenzoni	PACE							



# Climate Change and Variability

## Cryosphere and Physical Oceanography

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026	2027
<b>3) Climate Variability and Change</b>										
• 3.1) SWOT Launch			SWOT							
• 3.2) S-MODE - 2022-23		Shiffer	SWOT							
• 3.3) Vanilla UAS Snow mission repeat			ICESat-2							
• 3.4) SWOT post launch ocean cal/val (SCRIPPS MASS)	120	Shiffer	SWOT							
• 3.5) SWOT post-launch hydrology cal/val (AirSWOT)	120	Shiffer	SWOT							
• 3.6) NISAR LAUNCH		Bawden	NISAR							
• 3.7) SWOT cal/val	120	Shiffer	SWOT							
• 3.8) ICESAT-2 cal/val		Markus	ICESat-2							
• 3.9) ARCSIX	300	Maring/Markus	ICESat-2							
• 3.10) EXPLORER class ocean concept		Shiffer								





# Weather and Atmospheric Physics

Title	Fit Hours	PS/PE/PM	Related Satellite/Sensor	2021	2022	2023	2024	2025	2026	2027
6) Weather and Atmospheric Dynamics										
• 6.1) ALOFT	55	McCarty	GOES-r							
• 6.2) GOES-R cal/val	100	McCarty	GOES-R							
• 6.3) TROPICS underflight		McCarty	TROPICS							
• 6.4) IIP / AITT instrument demos		ESTO / McCarty	PBL incubator							
• 6.5) Planetary Boundary Layer technology and characterization experiments		ESTO	PBL incubator							
• 6.6) Next Weather field campaign		McCarty	AOS							
• 6.7) AOS Suborbital prep		Maring	AOS prelaunch							

