EMIT on/val for CHO Center - 24 Charles Keyes (Enter Kargeria and Parcicle and Parc	Tasks	PS/PE/PM	PI	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
SARP 24 Lefer King Sale Sal	EMIT cal/val for GHG Center - 24	Center), Kaye, Lefer, Margolis	· ·	B-200 (DA)	100	<u> </u>
Entire Control	ARCSIX	Maring, Markus	(University of CO -	G-III (LaRC) P-3		G-III (LaRC) P-3
EMIT callvid for GHD Center - 25	SARP 24	Lefer, Kim		B-200 (DA) P-3		B-200 (DA) P-3
Aboveground Carbon Stock Changes in Dynamic Tropical Forests Aboveground Carbon Stock Changes Aboveg	FireSense UAS Demo	Lefer		UAS		I UAS
Value Valu	EMIT cal/val for GHG Center - 25	Center), Kaye, Lefer, Margolis		B-200 (other)	100	B-200 (other)
NETERFANCE (Nitrogen and Carbon Terrestrial Fluxes: Agriculture, Atmospheric Composition, and Ecosystems) NETERFANCE (Nitrogen and Carbon Terrestrial Fluxes: Agriculture, Atmospheric Carbon Storage and Carbon Terrestrial Fluxes: Agriculture, Admospheric Airbone Measurements of Air Quality) - Mexico City PYREX (Pyrocumulonimbus Experiment) - 28 PYREX (Pyrocumulonimbus Experiment) - 29 PYREX (Pyrocumulonimbus Experiment) - 29 PYREX (Pyrocumulonimbus Experiment) - 29 PYREX (Pyrocumulonimbus Experiment) - 27 TASC-CH4 - AMAZON - 26 Lefer, Kaye Amin Nehir (LaRC) City HAMAQ (Hemispheric Airbonne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airbonne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airbonne Measurements of Air Quality) - Denestic LaRC) Lefer Jim Crawford (NASA LaRC) Jim Crawford (NASA LaRC) LaRC) Jim Crawford (NASA LaRC) LaRC) Jim Crawford (NASA LaRC) Jim Crawford (NASA LaRC) Jim Crawford		Jucks		Other		Other
Transcriate Flaves: Agriculture, Almospheric Corposition, and Ecosystems). Transcriate Flaves: Agriculture (Recognitions). Almospheric Corposition, and Ecosystems). Almospheric Corposition, and Ecosystems, Almospheric Corposition, and Eco	SARP 25	Lefer / Kim	Melissa Martin (HQ)	P-3		P-3
Transcriate Tlusers Agriculture. Almospheric Composition, and Ecosystems) - Animals PYREX (Pyrocumulonimbus Experiment) -26 PYREX (Pyrocumulonimbus Experiment) -27 PYREX (Pyrocumulonimbus Experiment) -27 Lefer David Peterson (NRL) David Peterson (NRL) ER-2 100 PYREX (Pyrocumulonimbus Experiment) -27 David Peterson (NRL) David Peterson (NRL) ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 100 ER-2 III (LaRC) ER-2 III (LaRC) II	Terrestrial Fluxes: Agriculture, Atmospheric Composition, and	Lefer	Glenn Wolfe (GSFC)	P-3		P3
PYREX (Pyrocumulonimbus Experiment) -26 PYREX (Pyrocumulonimbus Experiment) -27 PYREX (Pyrocumulonimbus Experiment) -27 PYREX (Pyrocumulonimbus Experiment) -27 PYREX (Pyrocumulonimbus Experiment) -27 TASC-CH4 - AMAZON - 26 Lefer, Kaye Amin Nehrir (LaRC) Lefer Jim Crawford (NASA LaRC) Lefer Measurements of Air Quality) - Domestic Lefer Measurements of Air Quality - Domestic Lefer Jim Crawford (NASA LaRC) S777 90 100 101 101 102 103 104 105 105 107 106 107 107 107 108 109 109 109 109 109 109 109 109 109 109	Terrestrial Fluxes: Agriculture, Atmospheric Composition, and	Lefer	Glenn Wolfe (GSFC)	B-200 (LaRC)		B-200 (LaRC)
PYREX (Pyrocumulonimbus Experiment) -27 Lefer David Peterson (NRL) -27 Lefer Sudi Peterson (NRL) -28 Lefer Sudi Peterson (NRL) -29 Lefer Sudi Pete	, ,	Lefer		ER-2	100	■■ ER-2
David Peterson (NRL) PYREX (Pyrocumulonimbus Experiment) -27 TASC-CH4 - AMAZON - 26 Lefer, Kaye Amin Nehrir (LaRC) G-III (LaRC) B777 G-III (LaRC) G-III (LaRC) G-III (LaRC) B777 B777		Lefer		WB-57	100	■ WB-57
TASC-CH4 - AMAZON - 26 HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27 Eefer Maria Tzortziou (City College of New York) Eefer Maria Tzortziou (City College of New York)	· · · · · · · · · · · · · · · · · · ·	Lefer		ER-2	100	ER-2
HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic TASC-CH4 - AMAZON - 27 Lefer Jim Crawford (NASA LaRC) B777 90 B777 90 B777 90 B777 90 B777 90 B777 90 G-III (LaRC) TASC-CH4 - AMAZON - 27 Lefer, Kaye Amin Nehrir (LaRC) G-III (LaRC)		Lefer		WB-57	100	■■ WB-57
Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic Lefer Jim Crawford (NASA LaRC) LaRC) 100 G-III (LaRC) LaRC) Measurements of Air Quality) - Domestic TASC-CH4 - AMAZON - 27 Lefer, Kaye Amin Nehrir (LaRC) FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27	TASC-CH4 - AMAZON - 26	Lefer, Kaye	Amin Nehrir (LaRC)	G-III (LaRC)		G-III (LaRC)
Measurements of Air Quality) - Mexico City HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic TASC-CH4 - AMAZON - 27 Lefer, Kaye Amin Nehrir (LaRC) FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27	Measurements of Air Quality) - Mexico		,	G-III (LaRC)	100	■ G-III (LaRC)
Measurements of Air Quality) - Domestic HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic TASC-CH4 - AMAZON - 27 FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27 Lefer Sim Crawford (NASA LaRC) B777 90 G-III (LaRC) G-III (LaRC) 100 B777 90 G-III (LaRC) G-III (LaRC) 126 G-III (LaRC)	Measurements of Air Quality) - Mexico	Lefer	,	B777	90	■ B777
Measurements of Air Quality) - Domestic TASC-CH4 - AMAZON - 27 Efer, Kaye Amin Nehrir (LaRC) FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27 FORTE (Arctic Coastlines—The College of New York)	· · · · · · · · · · · · · · · · · · ·	Lefer		G-III (LaRC)	100	G-III (LaRC)
FORTE (Arctic Coastlines—The Frontlines of Rapidly Transforming Ecosystems) - 27 Lefer, Kaye Anim Neriti (LaRC) G-III (LaRC) 126 G-III (LaRC)		Lefer		B777	90	B777
Frontlines of Rapidly Transforming Ecosystems) - 27 College of New York)	TASC-CH4 - AMAZON - 27	Lefer, Kaye	Amin Nehrir (LaRC)	G-III (LaRC)		G-III (LaRC)
AOS Suborbital Prep Maring B777 ER-2 P-3	Frontlines of Rapidly Transforming	Lefer		G-III (LaRC)	126	G-III (LaRC)
	AOS Suborbital Prep	Maring		B777 ER-2 P-3		8777 ER-2 P-3

	Tasks	PS/PE/PM	PI	Assigned To	Hours	2024		202	:5	2026		2027		2028		2029		2030
1											Q3 Q4		Q3 Q4					Q2 Q3 Q4
	FORTE (Arctic Coastlines–The Frontlines of Rapidly Transforming Ecosystems) - 28	Lefer	Maria Tzortziou (City College of New York)	, ,	126										G-III (Lai	RC)		
	EMIT cal/val for GHG Center - Santa Barbara	Argyro Kavvada (U.S. GHG Center)	Andrew Thorpe (JPL)	B-200 (DA)	100													

Carbon Cycle and Ecosystems

Approved Flight Request (FR)

Open FR

Tasks	PS/PE/PM	PI	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
EMIT cal/val for GHG Center - 24	Kavvada (GHG Center), Kaye, Lefer, Margolis and Pavlick	Andrew Thorpe (JPL)	B-200 (DA)	100	B-200 (DA)
Western Diversity Time Series - 24	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
AfriSAR 2	Margolis and Pavlick, Bawden	Yunling Lou (JPL)	G-III (AFRC)	113	■ G-III (AFRC)
AfriSAR 2	Margolis and Pavlick, Bawden	Yunling Lou (JPL)	G-III (AFRC)	80	G-III (AFRC)
BLUEFLUX - 24	Lorenzoni	Glenn Wolfe (GSFC)	A90 (DA)	35	■ A90 (DA)
STV demo - forest topography	Margolis and Pavlick	Marc Simard (JPL)	G-III (AFRC)	6	G-III (AFRC)
ABoVE (Arctic Boreal Vulnerability Experiment) - 24	Margolis and Pavlick	Charles Miller (JPL)	G-III (AFRC)		G-III (AFRC)
PACE-PAX (Plankton, Aerosol, Cloud, ocean Ecosystem Postlaunch Airborne eXperiment)	Lorenzoni	Kirk Knobelspiesse (GSFC)	ER-2 Twin Otter (CIRPAS)	60	■ ER-2 Twin Otter (CIRPAS)
air-LUSI Operational Campaign 02	Kaye, Lorenzoni, Tagg	Kevin Turpie (University of Maryland, Baltimore County)	ER-2		I ER-2
BLUEFLUX 2 - 25	Lorenzoni	Glenn Wolfe (GSFC)	A90 (DA) B-200 (AFRC) B-200 (LaRC)	72	A90 (DA) B-200 (AFRC) B-200 (LaRC)
EMIT cal/val for GHG Center - 25	Kavvada (GHG Center), Kaye, Lefer, Margolis and Pavlick	Andrew Thorpe (JPL)	B-200 (other)	100	B-200 (other)
GEDI cal/val (Singapore and Brunei) - 25	Margolis and Pavlick (?)	James Blair (GSFC)	G-III (LaRC)	150	G-III (LaRC)
GEDI cal/val - 25	Margolis and Pavlick (?)	James Blair (GSFC)	GV	100	■ GV
Western Diversity Time Series - 25	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
Ocean Color opportunity	Lorenzoni		G-III (LaRC)		I G-III (LaRC)
Spatio-Temporal Dynamics of Nearshore Processes and Their Impacts on the Coastal Arctic Ecosystem - 25	Lorenzoni	Wesley Moses (NRL)	B-200 (DA)	30	■ B-200 (DA)
Arctic-COLORS (Arctic-COastal Land Ocean inteRactionS) - 25	Lorenzoni			100	
SBG Pathfinder	Turner / ?			30	
GEDI cal/val - 26	Margolis and Pavlick (?)	James Blair (GSFC)	GV		■■■ GV
Western Diversity Time Series - 26	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
Arctic-COLORS (Arctic-COastal Land Ocean inteRactionS) - 26	Lorenzoni			100	

Tasks	PS/PE/PM	PI	Assigned To	Hours		2024			2025	5		202	6		2027			2028			202			2030	
					Q1	Q2 C)3 Q	Q4 Q1	Q2	Q3 Q	4 Q1	Q2	Q3 Q	4 Q1	Q2 Q	3 Q4	Q1	Q2 C	3 Q4	Q1	Q2	Q3 Q4	Q1	Q2 Q	3 Q4
Terrestrial Ecology field campaign (ARID or PANGEA)	Margolis		B-200 (DA)												B-20	00 (DA)									
Western Diversity Time Series - 27	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45											•		ER-2								
Spatio-Temporal Dynamics of Nearshore Processes and Their Impacts on the Coastal Arctic Ecosystem - 27	Lorenzoni	Wesley Moses (NRL)	B-200 (DA)	30												-	3-200 (D	A)							
Western Diversity Time Series - 28	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45																ER-2					
Western Diversity Time Series - 29	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45																			ER-2		
Western Diversity Time Series - 30	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45																					
EMIT cal/val for GHG Center - Santa Barbara	Argyro Kavvada (U.S. GHG Center)	Andrew Thorpe (JPL)	B-200 (DA)	100																					

Earth Surface and Interior

Approved Flight Request (FR)

Open FR

Tasks	PS/PE/PM	PI	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
QUAKES-I - 24	Phillips	Andrea Donnallan	B-200 (AFRC)	17	B-200 (AFRC)
Sea ice thickness with P-band	Bawden	Benjamin Holt (JPL)	G-III (AFRC)	3	G-III (AFRC)
GEMx/EMRI (USGS) - 24	Phillips	Raymond Kokaly (USGS)	ER-2	200	ER-2
Western Diversity Time Series - 24	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
UAV volcanology/glaciology demo (in dev)	Phillips		UAS	72	■ UAS
AfriSAR 2	Margolis and Pavlick, Bawden	Yunling Lou (JPL)	G-III (AFRC)	113	■ G-III (AFRC)
AfriSAR 2	Margolis and Pavlick, Bawden	Yunling Lou (JPL)	G-III (AFRC)	80	G-III (AFRC)
Germany Bistatic Experiment	Bawden	Yunling Lou (JPL)	G-III (AFRC)	17.6	[G-III (AFRC)
NISAR Launch	Bawden				
Estimating Subsurface Fault Geometries and Slip Rates with Remote Sensing Data Analysis of Alluvial Fans	Phillips	Adam Cawood (Southwest Research Institute)	Twin Otter (CIRPAS)		Twin Otter (CIRPAS)
GEMx/EMRI (USGS) - 25	Phillips	Raymond Kokaly (USGS)	ER-2	100	ER-2
Western Diversity Time Series - 25	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
Examining the extent and triggering of fault creep in the Salton Trough - 26		Robert Zinke (JPL)	G-IV	6	G-IV
GEMx/EMRI (USGS) - 26	Phillips	Raymond Kokaly (USGS)	ER-2	100	ER-2
Western Diversity Time Series - 26	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
LACCE (Landslide Climate Change Experiment)		Alexander Handwerger (NASA JPL)			
Snow4Flow		John Holt (University of AZ)			
Spatio-Temporal Dynamics of Nearshore Processes and Their Impacts on the Coastal Arctic Ecosystem - 26	Lorenzoni	Wesley Moses (NRL)	B-200 (DA)	30	■ B-200 (DA)
NISAR cal/val - 27	Kaye	Robert Green (JPL)	Other	250	Other Other
Terrestrial Ecology field campaign (ARID or PANGEA)	Margolis		B-200 (DA)		■■ B-200 (DA)
GLIMR cal/val	Lorenzoni				
Examining the extent and triggering of fault creep in the Salton Trough - 27		Robert Zinke (JPL)	G-IV	6	G-IV
GEMx/EMRI (USGS) - 27	Phillips	Raymond Kokaly (USGS)	ER-2	100	ER-2
Western Diversity Time Series - 27	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2
Western Diversity Time Series - 28	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45	ER-2

Tasks	PS/PE/PM	PI	Assigned To	Hours	2024		2025		2026		2027		2028		2029		2	2030	
												Q1 Q							Q4
UAVSAR - Landslides and Faults - 28	Phillips		G-IV	20										G-IV					
Western Diversity Time Series - 29	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45												EF	₹-2		
ESE - EDGE (Earth Dynamics Geodetic Explorer) cal/val																			
Western Diversity Time Series - 30	Kaye, Phillips, Turner / ?	Robert Green (JPL)	ER-2	45															

Weather and Atmospheric Dynamics

Approved Flight Request (FR)

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Tasks	PS/PE/PM	Pl	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
CoSMIR-H Eng. Flights	McCarty	Rachael Kroodsma (GSFC)	ER-2	16	l ER2
WHyMSIE	McCarty	Antonia Gambacorta (GSFC)	ER-2	50	■ ER-2
NURTURE - 26	McCarty	Amin Nehrir (LaRC)	B777	200	■ 8777
NURTURE - 27	McCarty	Amin Nehrir (LaRC)	B777	200	■ B777
PolSIR (Polarized Submillimeter Ice-cloud Radiometer) cal/val campaign	McCarty	Ian Adams (NASA GSFC)	ER-2	50	ER-2

Water and Energy Cycle

Approved Flight Request (FR) Open FR No FR

Tasks	PS/PE/PM	PI	Assigned To	Hours	202	24	2	2025		202	26			2027		2028		20	29		2030	
															Q4 Q		3 Q4				Q2 Q	
LACCE (Landslide Climate Change Experiment)		Alexander Handwerger (NASA JPL)																	•			
Snow4Flow		John Holt (University of AZ)																				
Spatio-Temporal Dynamics of Nearshore Processes and Their Impacts on the Coastal Arctic Ecosystem - 26	Lorenzoni	Wesley Moses (NRL)	B-200 (DA)	30								— E	I-200 (DA)								
GLIMR cal/val	Lorenzoni																					

Climate Variability and Change

Approved Flight Request (FR)

Open FR

Tasks	PS/PE/PM	PI	Assigned To	Hours	2024		2025		2026		2027		2028		2029		2030	
																		Q4
ARCSIX	Maring, Markus	Konrad Schmidt (University of CO - Boulder)	G-III (LaRC) P-3	168 (G-III), 189 (P-3)		G-III (La	aRC) P-3											
Possible joint Norwegian cryo mission (Antarctica SCAR/rings)	Markus		B777				I B777											
Joint SASSIE/SWOT cal/val	Shiffer							-1										
NISAR cal/val - 27	Kaye	Robert Green (JPL)	Other	250							Other							

Approved Flight Request (FR)

Open FR

asks	PS/PE/PM	PI	Assigned To	Hours	2024 ! Q3 (Q4 Q	2025 1 Q2 0	5 Q3 Q4		2026 ! Q3	Q4 Q1	202 Q2		Q4 Q1	2028 Q2 (2029 2 Q3	Q4 (030 Q3 (
FireSense - 24 (1/2)	Fowler / Falkowski			125	•	Т													\Box
c-FIRST (Compact Fire Infrared Radiance Spectral Tracker)	ESTO-IIP-21	Sarath Gunapala (JPL)																	
FireSense - 24 (2/2)	Fowler / Falkowski			125															
FireSense - 25	Lefer	Melissa Martin	B-200 (DA)						B-200 (D/	A)									
FireSense UAS Demo	Lefer		UAS			I U	JAS												
Firefighter Drones	ESTO	Hossein Rajoli (Clemson University)	UAS				UAS												
TMMS (Thermal Mapping Airborne Simulator for Small Satellite Sensor)		John Green (Xiomas Technologies)					I												
Al-Enabled Drone Swarms		Fatemah Afghah (Clemson University)	UAS				I UAS												
CFI (Compact Fire Imager)	ESTO	Douglas Morton (NASA GSFC)	UAS				[UAS												
MIIF (Multi-spectral Infrared Imager for wildland Fires)	ESTO	James Thompson (University of Texas at Austin)	UAS				UAS												
PIRS (Pyro-Atmosphere Infrared Sounder)		Sun Wong (NASA JPL)					I												
UAS Data Assimilation for Improved Wildland Fire Fighting Decision Support		Jack Elston (Black Swift Technologies)	UAS				[UAS												
Uncertainty and scaling of wildland fire emissions: Integrating variability in fuel properties for biomass burning carbon emissions inventory	Falkowski	Nancy French (Michigan Tech. Research Institute)	B-200 (in general) G-IV						B-200 (in	general)	G-IV								
FireSense Demo - 26 (1/2)	Fowler / Falkowski			125															
PYREX (Pyrocumulonimbus Experiment) - 26	Lefer	David Peterson (NRL)	ER-2	100							ER-2								
PYREX (Pyrocumulonimbus Experiment) - 26	Lefer	David Peterson (NRL)	WB-57	100							WB-5	57							
PYREX (Pyrocumulonimbus Experiment) - 27	Lefer	David Peterson (NRL)	ER-2	100									•	ER-2					
PYREX (Pyrocumulonimbus Experiment) - 27	Lefer	David Peterson (NRL)	WB-57	100									•	■ WB-5	7				
FireSense Demo - 26 (2/2)	Fowler / Falkowski			125															
FireSense Capstone - 27	Fowler / Falkowski		B-200 B777	150										■ В-	200 B777	•			

Tasks	PS/PE/PM	Pl	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
EMIT cal/val for GHG Center - 24	Kavvada (GHG Center), Kaye, Lefer, Margolis and Pavlick	Andrew Thorpe (JPL)	B-200 (DA)	100	B-200 (DA)
ARCSIX	Maring, Markus	Konrad Schmidt (University of CO - Boulder)	G-III (LaRC) P-3	168 (G-III), 189 (P-3)	G-III (LaRC) P-3
SARP 24	Lefer, Kim	Glenn Wolfe (GSFC), Melissa Martin (HQ)	B-200 (DA) P-3	52.8 (P-3), 74 (B-200)	B-200 (DA) P-3
FireSense UAS Demo	Lefer		UAS		I UAS
EMIT cal/val for GHG Center - 25	Kavvada (GHG Center), Kaye, Lefer, Margolis and Pavlick	Andrew Thorpe (JPL)	B-200 (other)	100	B-200 (other)
Aboveground Carbon Stock Changes in Dynamic Tropical Forests	Jucks	Michael Keller (USFS)	Other		Other
SARP 25	Lefer / Kim	Melissa Martin (HQ)	P-3		P-3
NTERFAACE (Nitrogen and Carbon Terrestrial Fluxes: Agriculture, Atmospheric Composition, and Ecosystems)	Lefer	Glenn Wolfe (GSFC)	P-3		P-3
NTERFAACE (Nitrogen and Carbon Terrestrial Fluxes: Agriculture, Atmospheric Composition, and Ecosystems) - Animals	Lefer	Glenn Wolfe (GSFC)	B-200 (LaRC)		B-200 (LaRC)
PYREX (Pyrocumulonimbus Experiment) - 26	Lefer	David Peterson (NRL)	ER-2	100	■■ ER-2
PYREX (Pyrocumulonimbus Experiment) - 26	Lefer	David Peterson (NRL)	WB-57	100	■■ WB-57
PYREX (Pyrocumulonimbus Experiment) - 27	Lefer	David Peterson (NRL)	ER-2	100	ER-2
PYREX (Pyrocumulonimbus Experiment) - 27	Lefer	David Peterson (NRL)	WB-57	100	■■ WB-57
TASC-CH4 - AMAZON - 26	Lefer, Kaye	Amin Nehrir (LaRC)	G-III (LaRC)		G-III (LaRC)
HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City	Lefer	Jim Crawford (NASA LaRC)	G-III (LaRC)	100	■ G-III (LaRC)
HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Mexico City	Lefer	Jim Crawford (NASA LaRC)	B777	90	■ B777
HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic	Lefer	Jim Crawford (NASA LaRC)	G-III (LaRC)	100	G-III (LaRC)
HAMAQ (Hemispheric Airborne Measurements of Air Quality) - Domestic	Lefer	Jim Crawford (NASA LaRC)	B777	90	8777
TASC-CH4 - AMAZON - 27	Lefer, Kaye	Amin Nehrir (LaRC)	G-III (LaRC)		G-III (LaRC)
FORTE (Arctic Coastlines–The Frontlines of Rapidly Transforming Ecosystems) - 27	Lefer	Maria Tzortziou (City College of New York)	G-III (LaRC)	126	■ G-III (LaRC)
AOS Suborbital Prep	Maring		B777 ER-2 P-3		B777 ER-2 P-3

	Tasks	PS/PE/PM	PI	Assigned To	Hours	2024		202	:5	2026		2027		2028		2029		2030
1											Q3 Q4		Q3 Q4					Q2 Q3 Q4
	FORTE (Arctic Coastlines–The Frontlines of Rapidly Transforming Ecosystems) - 28	Lefer	Maria Tzortziou (City College of New York)	, ,	126										G-III (Lai	RC)		
	EMIT cal/val for GHG Center - Santa Barbara	Argyro Kavvada (U.S. GHG Center)	Andrew Thorpe (JPL)	B-200 (DA)	100													

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Tasks	Description	PS/PE/PM	PI	Assigned To	Hours	2024 2025 2026 2027 2028 2029 2030 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
MBARS (Microwave Barometric Attenuation Radar & Sounder)	direct measure of air pressure	ESTO-IIP-21	Matthew Walker McLinden (GSFC)	ER-2	20	■■ ER-2
CHAPS-D (Compact Hyperspectral Air Pollution Sensor-Demonstrator)	aircraft nadir observations of tropospheric pollution	ESTO-IIP-19	Benjamin Stewart (Johns Hopkins University)	B-200	14	■ B-200
SToRM SAR	severe storm observation	ESTO-IIP-19	Kevin Maschhoff (BAE Systems)	GV	24	I ev
CoSMIR-H Eng. Flights	temperature and water vapor profiles	McCarty	Rachael Kroodsma (GSFC)	ER-2	16	ER-2
CASALS pt. 1	Forest 3D structure, composition and function, change in ice sheet and glacier elevation, change in sea ice thickness, water availability for plants, animals and humans, Albedo impact on land – atmosphere energy exchange, STV Incubation; global height mapping at high resolution, likely will be combination of lidar, radar and stereo optical assets	ESTO - IIP-19	Guangning Yang (GSFC)	B-200 (LaRC)	25	■ B-200 (LaRC)
c-FIRST (Compact Fire Infrared Radiance Spectral Tracker)	fire detection	ESTO-IIP-21	Sarath Gunapala (JPL)			
WHyMSIE	temperature and water vapor profiles	McCarty	Antonia Gambacorta (GSFC)	ER-2	50	■ ER-2
CASALS pt. 2 (Concurrent Artificially-intelligent Spectrometry and Adaptive Lidar System)	Forest 3D structure, composition and function, change in ice sheet and glacier elevation, change in sea ice thickness, water availability for plants, animals and humans, Albedo impact on land – atmosphere energy exchange, STV Incubation; global height mapping at high resolution, likely will be combination of lidar, radar and stereo optical assets	ESTO - IIP-19	Guangning Yang (GSFC)	B-200 (LaRC)	15	■ B-200 (LaRC)
REMIR (Reduced Envelope Multispectral Infrared Radiometer)	five thermal infrared band requirements for beyond Landsat 10	SLI-T-19	Michael Veto (Ball Aerospace)	Twin Otter		I Twin Otter
air-LUSI Operational Campaign 02	measure the spectral irradiance of the Moon to sub-percent accuracy	Kaye, Lorenzoni, Tagg	Kevin Turpie (University of Maryland, Baltimore County)	ER-2		ER-2
BETA-APD (Bandstructure Engineered Type-II Superlattice Antimonide Avalanche Photodiodes)	This detector will support spaceborne lidar receivers that monitor greenhouse gases (designed as large-area detector) and provide high resolution topographic imagling (designed as a focal plane array)	ACT-20	Sanjay Krishna (Ohio State University)	UAS		I uas
Firefighter Drones	leverages Unmanned Aerial Systems (UAS) to overcome existing limitations faced in wildfire monitoring, primarily bandwidth constraints and the dependency on human operators for piloting individual drones; refines the capabilities of drones for enhanced fire detection and mapping	ESTO	Hossein Rajoli (Clemson University)	UAS		I UAS

Tasks	Description	PS/PE/PM	PI	Assigned To	Hours	2024		2025			2026		202			2028			2029			2030
					C	Q1 Q2 Q3 C	24 Q1	Q2 C	Q3 Q4	Q1	Q2 Q3	Q4 Q1	Q2	Q3 Q4	Q1 I	Q2 Q	3 Q4	Q1 ·	Q2 Q	3 Q4	Q1 Q2	Q3 Q
TMMS (Thermal Mapping Airborne Simulator for Small Satellite Sensor)	capable of mapping thermal anomalies on the surface of the earth with a high revisit rate and high spatial resolution		John Green (Xiomas Technologies)																			
Al-Enabled Drone Swarms	develop an integrated Al-based formation and onboard computing method for a fleet of heterogeneous drones to enhance fire detection and mapping		Fatemah Afghah (Clemson University)	UAS				UAS														
CFI (Compact Fire Imager)	Uses 6 spectral bands between SWIR to TIR for fire detection and characterization	ESTO	Douglas Morton (NASA GSFC)	UAS			'	UAS														
MIIF (Multi-spectral Infrared Imager for wildland Fires)	3D derivation of thermal and as (SO2, CO2, NH3) flux rates to understand fire dynamics and impacts on ecosystems	ESTO	James Thompson (University of Texas at Austin)	UAS				UAS														
PIRS (Pyro-Atmosphere Infrared Sounder)	mapping fire weather conditions across active burn sites		Sun Wong (NASA JPL)				1															
FlexDSAR	FlexDSAR technology will enable a flexible observation strategy that employs different radar frequency bands (including P-, L-, and S-band) and imaging modes, resolution, and spatial coverage on different platforms to meet the NASA Surface Topography and Vegetation (STV) Targeted Observables aspirational goals for surface topography, vegetation 3-dimensional structure and biomass change, ice surface topography, snow accumulation, and permafrost dynamics	ESTO-IIP-21	Yunling Lou (JPL)	G-IV					G-	iv												
InVEST Solicitation - 26																						
CASALS test flights	Forest 3D structure, composition and function, change in ice sheet and glacier elevation, change in sea ice thickness, water availability for plants, animals and humans, Albedo impact on land – atmosphere energy exchange, STV finubulation: global height mapping at high resolution, likely will be combination of lidar, radar and stereo optical assets	ESTO - IIP-19	Guangning Yang (GSFC)	B-200 (LaRC)	15					■ B-2	00 (LaRC)											
SNOWWI (Snow Water-equivalent Wide Swath Interferometer and Scatterometer)	explore the system sensitivity to snow grain size, snow density and snow water equivalent	ESTO-IIP-21	Paul Siqueira (University of Massachusetts Amherst)							ľ												
STASIS (Separated Thinned Array for Sensing of Ice Sheets)	high spatial resolution maps of Antarctic ice sheet thermal emission at P/L band	ESTO-IIP-21	Alex Akins (NASA JPL)							1												
DARSoC	convert Time-of-Flight (ToF) LIDAR measurements to digital numbers (DN) for use in low and high photon count Earth science research applications in orbit or within the atmosphere	ESTO	Dale Shane Smith (SenselCs)							1												
IPDA (Integrated Path Differential Absorption Formaldehyde) LIDAR	IPDA lidar for formaldehyde detection	ESTO-IIP-19	Tom Hanisco (NASA GSFC)																			
AIST Solicitation - 26																						
ESTO IIP Solicitation - 27		ESTO-IIP					\perp															
ACT Solicitation - 28																						

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	Tasks	PS/PE/PM	PI	Assigned To	Hours	2024			2025			2026			2027		2027		2028		2029		2030	
- 1																				03 Q4				Q4
	SARP 24	Lefer, Kim	Glenn Wolfe (GSFC), Melissa Martin (HQ)	B-200 (DA) P-3	52.8 (P-3), 74 (B-200)			· · ·	B-200 (I	DA) P-3														
	SARP 25	Lefer / Kim	Melissa Martin (HQ)	P-3							P-3													
	SARP East - 26	Kaye / Tagg		B777	20									I B777										
	SARP West - 26	Erickson		B777	20									I B777										