NASA Payload Safety Missions in work (updated Oct 2018)

Mission	Projected Launch Date	Method of launch vehicle procurement	Launch Site	Information	Anticipated Hazards	Center Leading	Project Systems Safety Engineer	PSWG Chair	Spacecraft Contractor Safety Engineer	Launch Vehicle/ Safety Engineer	Processing Facility Safety Engineer	Range Safety	PSIB	Safety Review 1	Safety Review 2	Safety Review 3	Complete letter of compliance	
STF-1	2018	CubeSat Initiative	New Zealand	Simulation to Flight, software testing, CubeSat Initiative, IV&V in West Virginia	benign	N/A				Electron Rocket Labs			N/A					https://www.nasa.gov/centers/ivv/jstar/stf1.html
CeREs	2018	CubeSat Initiative	New Zealand	Compact Radiation Belt Explorer CubeSat Initiative (3U)	benign	GSFC				Electron Rocket Labs			N/A					https://science.gsfc.nasa.gov/sci/content/uploadFiles/highlight_files/670_CeREs_1page-ScienceHighlight.pdf
ALBus	2018	CubeSat Initiative	New Zealand	Advanced Electrical Bus CubeSat (3U)	benign	Glenn				Electron Rocket Labs			N/A					http://mstl.atl.calpoly.edu/~bklofas/Presentations/DevelopersWorkshop2015/Avanesian_ALBus.pdf
SET-1	2018	special	KSC 39A	Space Environment Test Bed hosted on an AFRL spacecraft, science directorate	benign	GSFC				Falcon Heavy		Don Faeh	N/A					https://lws-set.gsfc.nasa.gov/mission.html
ICON	2018	LSP	kwaj	Ionosphere Connection Explorer spacecraft	more than 10	GSFC	William Conn	Kevin Villa	Milton Keeter OATK	Pegasus XL	Not Specified	Lynne Koertge	18-Mar-14	14-Oct-14	12-May-15	22-Feb-17	14-Jul-17	http://icon.ssl.berkeley.edu/
INSPIRE	2018	CubeSat Initiative	TBD	Interplanetary Nano Spacecraft Pathfinder in Relevant Environment 2 CubeSats (3U)	benign	JPL	no additional safety process is required											https://directory.eoportal.org/web/eoportal/satellite-missions/i/inspire
BioSentinal	2018	special	KSC 39B	biological studies on low power payloads CubeSat (3U) 30 lbs.	biological substances	Ames, JPL, JSC				SLS EM-1		SLS Safety Panel	N/A					https://www.nasa.gov/centers/ames/engineering/projects/biosentinel.html
CryoCube	2018	CubeSat Initiative	KSC 39C	Cryogenics testing CubeSat (3U)	pressurize temp, deploy	KSC				Firefly A		TBD	N/A					https://kscpartnerships.ksc.nasa.gov/Success-Stories/Applied-Technology/CryoCube-1
JWST	2021	LSP	French Guiana	James Webb Space Telescope	more than 10	GSFC				Ariene 5	specialized partnership with ESA							https://jwst.nasa.gov/
LCRD	2019	special	KSC	Laser Communications Relay Demonstration hosted payload on a Loral spacecraft	lasers	GSFC				Atlas 5	TBD	TBD	N/A					https://www.nasa.gov/mission_pages/tdm/lcrd/index.html
NEAS	2019	special	KSC 39B	Near Earth Asteroid Scout by Advanced exploration Systems program CubeSat (6U)	deploy solar sail	MSFC JPL				SLS EM-1		SLS Safety Panel	N/A					https://www.nasa.gov/content/nea-scout
Solar Orbiter	2020	LSP	CCAFS SLC 41	Working with CNES in France on this sun science spacecraft	more than 10	GSFC	Linda Glusing	Daniel Robinson	Martin Mannings Piere Oliver	Atlas 5/ Shawn Laabs ULA	Gerard Gleeson Astrotech	Don Faeh	17-Oct-11	25-Apr-12	12-Jan-16	TBD	TBD	http://sci.esa.int/solar-orbiter/
GOES-T	2020	LSP	CCAFS	Geostationary Operational Environmental Satellite System	more than 10	GSFC	Michelle Rizzo	TBD	TBD	TBD	Gerard Gleeson Astrotech	Don Faeh	Grandfathered from GOES-S mission				TBD	http://www.goes-r.gov/
Sentinel 6	2020	LSP	TBD	working with CNES	more than 10	JPL	Karen Moran	Daniel Robinson	Christian Martin	TBD	TBD	TBD	19-Oct-16	20-Apr-17	1-Jun-18	TBD	TBD	https://jason-cs.cnes.fr/en/JASON-CS/index.htm
LOFTID	2020	direct	KSC	Leo flight test of an orbital decelerator	more than 10	LaRC	RJ	Brent Heard	TBD	TBD	TBD	Don Faeh	TBD	TBD	TBD	TBD	TBD	no website
Mars 2020	2020	LSP	ER	Mars Rover with 7 main science instruments, Cruise, and Decent Stages	more than 10	JPL	Doug Savard	Coleen Taylor	Stephen Johnson DOE	Dave Schalla ULA	Joe LeBlanc PHSF	Don Faeh	21-Apr-15	5-Apr-16	8-May-17	TBD	TBD	http://mars.nasa.gov/mars2020/
WFIRST	2020	LSP	TBD	Wide Field Infrared Survey Telescope	more than 10	GSFC	TBD	Robert Patterson	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	http://wfirst.gsfc.nasa.gov/
Landsat 9	2020	LSP	VAFB	Earth Science Satellite	more than 10	GSFC	Jana Rezac	Daniel Robinson	Peter Buchan OATK	Jim Allison	TBD	Lynne Koertge	9-May-17	15-Dec-17	1-Jun-18	TBD	TBD	http://landsat.gsfc.nasa.gov/landsat-9/
NI-SAR	2020	Special & LSP	India	NASA & IRSO Synthetic Aperture Radar	more than 10	JPL	TBD	Coleen Taylor	TBD	PSLV Indian	TBD	TBD						http://nisar.jpl.nasa.gov/
Restore L	2020	LSP	TBD	refueling mission for the Landsat 7	more than 10	GSFC	TBD	Kevin Villa	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	https://sspd.gsfc.nasa.gov/restore-L.html
IXPE	2021	LSP	Kwaj	Imaging X-Ray Polarimetry Explorer full size telescope satellite working with Italy	more than 10	MSFC GSFC	Jesse Bales MSFC	Danielle Olivella	Brian Smith Ball Aero	TBD	TBD	Lynne Koertge	27-Feb-18	18-Jul-2018, 10-	TBD	TBD	TBD	https://www.nasa.gov/press-release/nasa-selects-mission-to-study-black-holes-cosmic-x-ray-mysteries
DART	2021	LSP				MSFC APL												
SWOT	2021	LSP	VAFB	Surface Water Ocean Topography working with CNES France	more than 10	JPL	Jennifer Hasenoehrl	Coleen Taylor	Christian Martin CNES	Falcon 9	TBD	Lynne Koertge	24-Feb-16	25-Jan-17	TBD	TBD	TBD	http://swot.jpl.nasa.gov/
JPSS-2	2021	LSP	VAFB	Joint Polar Satellite System weather monitoring	more than 10	GSFC	William Hill	Kevin Villa	Mike Villa	TBD	Julie Schneringer	Lynne Koertge	4-Aug-16	13-Feb-17	TBD	TBD	TBD	https://eospso.nasa.gov/missions/joint-polar-satellite-system-2
Lucy	2021	LSP	ER	spacecraft to study asteroids in the orbit of Jupiter	more than 10	GSFC	Bill Hill	Danielle Olivella	Jack Decker LM	TBD	TBD	Don Faeh	22-May-18	TBD	TBD	TBD	TBD	https://www.nasa.gov/feature/goddard/2017/nasa-selects-mission-to-study-jupiter-s-trojan-asteroids

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Psyche	2022	LSP	TBD	spacecraft to study a unique heavy metal asteroid	more than 10	JPL	TBD	Daniel Robinson	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	https://www.nasa.gov/press-release/nasa-selects-two-missions-to-explore-the-early-solar-system
GeoCARB	2022	special	TBD	hosted payload on an SES commercial LM satellite bus with U of Oklahoma	weight (350 lbs.)	LaRC	teleconference on 7 Feb 2017 with ELV Payload Safety Program Office no additional actions required_____											no website
Europa	2022	SLS	TBD	Spacecraft mission to study Jupiter's ice covered moon Europa	more than 10	JPL	following process of SLS Program_____											http://www.jpl.nasa.gov/missions/europa-mission/
PACE	2023	LSP	TBD	Plankton Aerosol Cloud ocean Ecosystem	more than 10	GSFC	TBD	Robert Patterson	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	https://pace.gsfc.nasa.gov/
Europa Lander	2023	SLS or LSP	TBD	landing spacecraft for the moon Europa	more than 10	JPL	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	https://solarsystem.nasa.gov/missions/eal/indepth
IMAP	2024	TBD	TBD	Interstellar Mapping and Acceleration Probe heliophysics	more than 10	GSFC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
TROPICS	TBD	special	TBD	Time Resolved Observations of Precipitation Structure and Storm Intensity with a	more than 10	LARC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	https://tropics.ll.mit.edu/CMS/tropics/
MAIA	TBD	TBD	TBD	Multi Angle Imager for Aerosols to detect pollutants hosted payload	more than 10	JPL	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	http://www.jpl.nasa.gov/missions/multi-angle-imager-for-aerosols-maia/
Lunar Pallet	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
PTD	TBD	special	TBD	Pathfinder Technology Demonstrator CubeSat (6U) 25 lbs.	deployable solar panels	Ames	TBD			TBD		TBD	N/A_____					https://www.nasa.gov/directorates/spacetech/small_spacecraft/ptd.html

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