

Planning List for SMD Solicitations
Last updated **May 6, 2024**

The following list is the NASA Science Mission Directorate (SMD) planning list for solicitations issued as Broad Agency Announcements, including NASA Research Announcements (NRAs), Announcements of Opportunity (AOs), and Cooperative Agreement Notices (CANs). This list represents a snapshot of SMD's plans as of the revision date. It is important to note that these are projected solicitations and planning dates only. NASA cannot guarantee that the final solicitations will be released, or that they will be released by the planning date. Also note that quarters are referenced to the Federal Fiscal Year (October 1 – September 30) and not the calendar year:

Q1 (Fall) = Oct-Dec, Q2 (Winter) = Jan-Mar, Q3 (Spring) = Apr-Jun, Q4 (Summer) = Jul-Sep

Note that the format of this list has changed: AOs and NRAs are now listed in separate columns and the oldest entries are now last. Changes and additions from the previously released Planning List are now shown in **bold text**. Deletions are shown as ~~struck through text~~. Replacement text is shown in **blue**. Website links are **underlined**.

The release of any of these planned solicitations has not been formally approved by NASA. By offering this information to prospective investigators at this time (prior to formal approval and release by NASA), NASA is under no obligation to issue the solicitation and solicit proposals. Any costs incurred by prospective investigators in preparing submissions in response to this information are incurred completely at the submitter's own risk. The ability of the Government to issue any of these planned solicitations is contingent upon the expectation of sufficient appropriated funds and the ability of the Government to make awards is contingent upon the availability of sufficient appropriated funds. If you have question about this schedule, please contact Dr. Michael New at 202-358-1766 or email at michael.h.new@nasa.gov.

FY2029 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth System Explorers, Q1	ROSES-2029, Release February 2029
Astrophysics Small Explorers (SMEX), Q3	
Astrophysics Missions of Opportunity, TBD	
Heliophysics Small Explorers (SMEX), Q2	

FY2028 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture X, Q1	ROSES-2028, Release February 2028
Heliophysics Explorers SMEX, Q2	
Heliophysics Explorers MO, Q2	
2028 Discovery, Q4	

FY2027 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Astrophysics Medium Explorers (MIDEX) and Missions of Opportunity, Q4	ROSES-2027, Release February 2027
	(ROSES-2027) Earth Venture Suborbital-5, Q1

FY2026 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture X, Q1	ROSES-2026, Release February 2026
Heliophysics Explorers MO, Q2	(ROSES-2025) Astrophysics Pioneers, Proposals due TBD
New Frontiers 5, Q3	(ROSES-2026) PICASSO, Proposals due TBD
	(ROSES-2026) DALI, Proposals due TBD
	(ROSES 2026) Heliophysics Low-Cost Access to Space, Proposals Due TBD Q4
	(ROSES 2026) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD Q4.

FY2025 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture Instrument 7, Q1	ROSES-2025, Release February 2025
Earth Venture Mission 4, Q1	(ROSES-2024) Astrophysics Pioneers, Proposals due TBD
Earth System Explorer 3 and 4, Q1	(ROSES-2025) PICASSO, Proposals due TBD
Heliophysics Medium-Class Explorers, Q2 Q4 (no MO)	(ROSES-2025) DALI, Proposals due TBD
Astrophysics Small Explorers (SMEX) and Missions of Opportunity, Q2	(ROSES 2025) Heliophysics Low-Cost Access to Space, Proposals Due TBD Q4
Astrophysics Missions of Opportunity, TBD	(ROSES 2025) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD Q4.
Atmosphere Observing System - Cloud (AOS-Cloud) AO, Q3	

FY2024 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture Continuity 2, Q3	ROSES-2024, Release planned for February 2024 Released on February 14, 2024
Heliophysics Explorers MO, Q3	(ROSES-2023) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Proposals received 1/31/24
	(ROSES-2024) Strategic Astrophysics Technology, Proposals due 1/30/25
	(ROSES-2024) PICASSO, Proposals due anytime
	(ROSES-2024) MatISSE, Proposals due 6/27/24
	(ROSES-2024) DALI, Proposals due 6/26/24
	(ROSES-2024) Astrophysics Pioneers, Proposals due 3/13/25
	(ROSES-2024) HOTTech, Proposals due TBD
	(ROSES-2024) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD.
	(ROSES-2024) Earth Venture Suborbital 4, Q1
	(ROSES 2024) Heliophysics Low-Cost Access to Space, Proposals Due TBD

FY2023 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft New Frontiers 5, Released January 10, 2023	ROSES-2023, Released February 2023
Earth System Explorers 1 and 2, Released May 2, 2023. Proposals received April August 2, 2023	(ROSES-2022) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), (Selections announced)
Astrophysics Probes, Released July 31, 2023. Proposals received November 16, 2023.	(ROSES-2022) Earth Venture Suborbital 4, Proposals received 4/27/2023
STP Dynamical Neutral Atmosphere-Ionosphere Coupling (DYNAMIC), Released May 19, 2023. Proposals received August 22, 2023.	(ROSES-2023) PICASSO, Proposals due anytime
	(ROSES-2023) DALI, Proposals due 6/22/2023 (Selections announced)
	(ROSES 2023) Heliophysics Low-Cost Access to Space, Proposals due 11/21/2023

FY2022 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft Earth Venture Instrument 6, Comments closed on December 1, 2021	ROSES-2022, Released February 2022
Earth Venture Instrument 6, released on 4/19/22, (Selections announced)	(ROSES-2021) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), (Selections announced)
Heliophysics Small Explorers (SMEX) and Missions of Opportunity, Released on April 3, 2019. Step-1 selections announced March 16, 2020.	(ROSES-2021) Strategic Astrophysics Technology, (Selections announced).
Draft Astrophysics Probes, Released on August 16, 2022.	(ROSES-2021) Astrophysics Pioneers, (Selections announced)
	(ROSES-2022) Astrophysics Pioneers, Proposals due 3/16/23
	(ROSES-2022) PICASSO, (Selections announced) (Supplemental selections announced)
	(ROSES-2022) MatISSE, (Selections announced)
	(ROSES-2022) DALI, (Selections announced)
	(ROSES-2022) Beyond Low Earth Orbit Space Biology Investigations, (Selections announced)

FY2021 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture Mission-3, (Selection announced)	ROSES-2021, Release February 2021
Geospace Dynamics Constellation (GDC) Instruments, Proposals received 09/22/2021	(ROSES-2020), Heliophysics Low Cost Access to Space, (Selections announced)
ESA Lagrange Instruments Focused Mission of Opportunity, Q4	(ROSES-2020), Heliophysics Flight Opportunity Studies, (Selections announced)
2021 Astrophysics Medium-Class Explorers (MIDEX) and Missions of Opportunity, Proposals due 12/9/2021	(ROSES-2020), Heliophysics Technology and Instrument Development for Science, (Selections announced)
	(ROSES-2020) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), (Selections announced)
	(ROSES-2020), Heliophysics Flight Opportunities for Research and Technology, (Selections announced)
	(ROSES-2020) PICASSO, Rolling proposal submissions until 3/29/22
	(ROSES-2020) DALI, (Selections announced)
	(ROSES-2021), Payloads and Research Investigations on the Surface of the Moon 2 (PRISM-2), Proposals due 12/20/21
	Extended Longevity of 3D Tissues and Microphysiological Systems for Modeling of Acute and Chronic Exposures to Stressors, Proposals received. (Selections announced)
	(ROSES-2021) Lunar Explorer Instrument for Space Biology Applications (Selections announced)

FY2020 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
	ROSES-2020, Released February 2020
	(ROSES-2020), Astrophysics Pioneers, (Final text released July 2nd, 2020), (Selections announced)
	(ROSES-2020), In-space Validation of Earth Science Technologies, (Selections announced)
	(ROSES-2020) DALI, (Selections announced)
	(ROSES-2020) MatISSE, (Selections announced)
	(ROSES-2020) Heliophysics Technology and Instrument Development for Science, (Selections announced)
	(ROSES-2020) PICASSO, (Selections announced)

FY2019 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Heliophysics Explorers (MIDEX), (Selections Announced)	ROSES-2019 NRA, March 2019 (Released in March 2019 due to partial government shutdown)
Earth Venture Continuity-1 Missions of Opportunity (Selections Announced)	
Astrophysics Explorers (SMEX) and Missions of Opportunity (Selections Announced)	
Discovery 2019, (Selections Announced)	

FY2018 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Small Innovative Missions for Planetary Exploration (SIMPLEx-2) Missions of Opportunity (Selections Announced)	ROSES-2018 NRA, February 2018 (Released)
Earth Venture Instrument-5, (Selections Announced)	SOFIA Next Generation Instrumentation, (Selections Announced – all proposals declined)
STP Technology Demonstration Missions of Opportunity, (Selections Announced)	
Heliophysics Science Mission of Opportunity, (STP Selections Announced) (Explorer Selections Announced)	
	RFP, Commercial Lunar Payload Services, (Selections Announced)

FY2017 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
New Frontiers 4 (Selections Announced)	ROSES-2017, February 2017 (Released)
SALMON-3 AO (Released)	(ROSES-2017) Earth Venture Suborbital-3, (Selections Announced)
Martian Moons eXploration (MMX) Instrument, (Selections Announced)	
STP-5 (IMAP), Heliophysics, (Selection Announced)	

UPDATES RECEIVED

1. ESD
2. HPD
3. PSD
4. APD