

Planning List for SMD Solicitations

Last updated July 21, 2026

The following list is the NASA Science Mission Directorate (SMD) planning list for solicitations issued as Broad Agency Announcements (BAAs), with a focus on NASA Research Announcements (NRAs), and Cooperative Agreement Notices (CANs). While BAAs also include Announcements of Opportunity (AOs), information on future AOs is still being developed and not available at the time of this Planning List update.

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. Due to the large number of changes from the previously Released Planning List, changes are not marked for better clarity. Website links are [blue and 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 michael.h.new@nasa.gov and cc sara@nasa.gov.

FY2029 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
<i>planning being developed</i>	ROSES-2029, Release February 2029

FY2028 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
<i>planning being developed</i>	ROSES-2028, Release Summer/Fall 2028

FY2027 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture Orbital-1 (EVO-1)	ROSES-2027, Release Summer/Fall 2027
New Frontiers 5 (NF5)	(ROSES-2027) Earth Venture Suborbital-5, Q1
	(ROSES-2026) PICASSO, Proposals due TBD
	(ROSES-2026) DALI, Proposals due TBD
	(ROSES 2026) Heliophysics Low-Cost Access to Space, Proposals Due TBD
	(ROSES 2026) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD.

FY2026 Planned (and Actual)

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Astrophysics Small Explorers (Astro SMEX) released June 2026 see https://explorers.larc.nasa.gov/APSMEX26/S-MEX/	ROSES-2026, Release Summer/Fall 2026
	(ROSES-2025) Astrophysics Pioneers, Proposals received 04/02/2026.
	(ROSES-2025) Strategic Astrophysics Technology. Proposals due 08/06/2026
	(ROSES-2025) Astrophysics Research and Analysis Program. Proposals due 08/06/2026
	(ROSES-2025) Payloads and Research Investigations on the Surface of the Moon. Proposals received 02/27/2026.

FY2025 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft Astrophysics Small Explorers (SMEX) released January.	ROSES-2025, Release July 2025 (ROSES-2024) Astrophysics Pioneers, Proposals due 04/03/2025. Link to Selections (ROSES-2025) PICASSO, Not Solicited This Year (ROSES-2025) DALI, Not Solicited This Year (ROSES 2025) Heliophysics Low-Cost Access to Space, Not Solicited This Year (ROSES 2025) Heliophysics Flight Opportunities for Research and Technology, Not Solicited This Year (ROSES-2024) Strategic Astrophysics Technology, Proposals received 02/21/2025 Link to selections (ROSES-2024) PICASSO: Proposals due anytime. Selections announced February 24, 2025 (ROSES-2024) Heliophysics Flight Opportunities for Research and Technology: Selections announced July 1, 2025 (ROSES 2024) Heliophysics Low-Cost Access to Space: Selections announced July 16, 2025

FY2024 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
	ROSES-2024, Released on February 14, 2024 (ROSES-2024) MatISSE. Proposals due 6/27/24. Selections announced October 8, 2024 (ROSES-2024) DALI. Proposals due 6/26/24. Selections announced October 5, 2024 (ROSES-2023) PICASSO, On March 1, 2024, one proposal was selected for funding. On June 3, 2024, an additional nine proposals were selected (ROSES-2023) Strategic Astrophysics Technology proposals received 01/31/2024, Selections updated 7/16/24 (ROSES 2023) Heliophysics Low-Cost Access to Space, Proposals received 11/21/2023. Selections announced August 30, 2024 (ROSES-2023) Astrophysics Research and Analysis (including technology development and sub-orbital investigations). Proposals received 1/31/24. Selections announced November 2024 (ROSES-2022) Astrophysics Pioneers: Proposals due-3/16/23. Selections announced February 22, 2024 (ROSES-2022) Earth Venture Suborbital 4: Proposals received 4/27/2023. Selections announced April 15, 2024

FY2023 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Astrophysics Probes (Selections announced)	ROSES-2023, Released February 2023
Draft New Frontiers 5, Released January 10, 2023	(ROSES-2023) DALI, Proposals received 6/22/2023. Selections announced December 15, 2023
Earth Systems Explorer (Selections announced) (Down-Selections announced)	(ROSES-2022) DALI, Selections announced February 23, 2023
STP Dynamical Neutral Atmosphere-Ionosphere Coupling (DYNAMIC) (Selections announced) (Down-Selections announced)	(ROSES-2022) Strategic Astrophysics Technology, Selections announced May 11, 2023
	(ROSES-2022) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Selections announced May 22, 2023
	(ROSES-2022) MatISSE, Selections (Updated 7/11/23)
	(ROSES-2022) Beyond Low Earth Orbit Space Biology Investigations, Selections announced September 14, 2023

FY2022 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Earth Venture Instrument 6 (Selections announced)	ROSES-2022, Released February 2022
Heliophysics Small Explorers (SMEX) and Missions of Opportunity (Selections announced) (Down-Selections announced)	(ROSES-2021) Astrophysics Research and Analysis (including technology development and sub-orbital investigations). Proposals received 12/16/2021. Selections announced May 13, 2022
	(ROSES-2021) Strategic Astrophysics Technology. Proposals received 12/16/2021. Selections announced May 12, 2022
	(ROSES-2021), Payloads and Research Investigations on the Surface of the Moon 2 (PRISM-2), Proposals due 12/20/2. Selections announced June 9, 2022
	(ROSES-2021) Astrophysics Pioneers, Selection announced July 27, 2022
	(ROSES-2020) PICASSO: Selections announced October 26, 2022
	(ROSES-2022) PICASSO. Initial Selections announced October 19, 2022. Supplemental Selections announced August 18, 2023
	Extended Longevity of 3D Tissues and Microphysiological Systems for Modeling of Acute and Chronic Exposures to Stressors, Proposals received. Selections announced March 1, 2022

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 (Selections announced)	(ROSES-2020), Heliophysics Low-Cost Access to Space, Selections announced February 18, 2021
ESA Vigil Instruments Focused Mission of Opportunity, Q4 (Selections announced)	(ROSES-2020), Heliophysics Flight Opportunity Studies, Selections announced July 13, 2021
2021 Astrophysics Medium-Class Explorers (MIDEX) and Missions of Opportunity, (Selections announced)(Down-selection Announced)	(ROSES-2020), Heliophysics Technology and Instrument Development for Science, Selections announced March 15, 2021
	(ROSES-2020) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Selections announced May 4, 2021
	(ROSES-2020), Heliophysics Flight Opportunities for Research and Technology, Selections announced September 7, 2021
	(ROSES-2020) DALI, Selections announced November 30, 2020
	(ROSES-2021) Lunar Explorer Instrument for Space Biology Applications, Selections announced September 10, 2021

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)(Down-selection Announced)	
Discovery 2019 (Selections announced)(Down-selection 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)(Down-selection Announced)	
Heliophysics Science Mission of Opportunity, (STP Selections announced)(Explorer Selections announced)(STP Down-selection Announced)(Explorer Down-selection Announced)	
RFP, Commercial Lunar Payload Services, (Selections announced)*	

FY2017 Actual

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
New Frontiers 4 (Selections announced)(Downselection 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)	

**Other lunar opportunities to be added in future versions.*