

Planning List for SMD Solicitations
 Last updated December 5, 2021

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~~.

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. Where hypertext links are available from titles, they will lead to NSPIRES pages with abstracts and points of contact for individual solicitations.

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
New Frontiers 5, Q1	(ROSES-2024) PICASSO, Proposals due TBD
Heliophysics Medium-Class Explorers, Q2	(ROSES-2024) DALI, Proposals due TBD

FY2024 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft New Frontiers 5, Q1	ROSES-2024, Release February 2024
Astrophysics Small Explorers (SMEX) and Missions of Opportunity, Q2	(ROSES-2023) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Proposals due TBD
Earth System Explorer 13, Q4	(ROSES-2024) Strategic Astrophysics Technology, Proposals due TBD
	(ROSES-2024) PICASSO, Proposals due TBD
	(ROSES-2024) MatISSE, Proposals due TBD
	(ROSES-2024) DALI, Proposals due TBD
	(ROSES-2024) Astrophysics Pioneers, Proposals due TBD
	(ROSES-2024) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD.
	(ROSES-2024), Earth Venture Suborbital-4, Q1

FY2023 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft New Frontiers 5, Q1	ROSES-2023, Release February 2023
Discovery 2023, Q2	(ROSES-2022) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Proposals due TBD
Earth Venture Continuity 2, Q3	(ROSES-2023) Astrophysics Pioneers, Proposals due TBD
	(ROSES-2023) PICASSO, Proposals due TBD
	(ROSES-2023) DALI, Proposals due TBD
	(ROSES-2023) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD.
	(ROSES-2023) International Free Flyer Research Opportunities in Space Biology, Q3 Proposals due TBD

FY2022 Planned

Announcements of Opportunity (AOs)	NASA Research Announcements (NRAs)
Draft Earth Venture Instrument 6, Comments closed on December 1, 2021.	ROSES-2022, Release February 2022
Dynamical Neutral Atmosphere-Ionosphere Coupling (DYNAMIC), November 2021	(ROSES-2021) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), Proposals due TBD
Earth Venture Instrument 6, Q2	(ROSES-2021) Strategic Astrophysics Technology, Proposals due TBD
Heliophysics Small Explorers (SMEX) and Missions of Opportunity, Q3	(ROSES-2021) Astrophysics Pioneers, Proposals due Q2
Earth Venture Continuity 2, Q3	(ROSES-2021) Heliophysics Flight Opportunities for Research and Technology, Proposals due TBD Cancelled due to budget issues
Earth System Explorer 1 and 2, Q4	(ROSES-2022) Astrophysics Pioneers, Proposals due TBD
	(ROSES-2022) PICASSO, Proposals due TBD
	(ROSES-2022) MatISSE, Proposals due TBD
	(ROSES-2022) DALI, Proposals due TBD
	(ROSES-2022) Beyond Low Earth Orbit Space Biology Investigations, Q3

FY2021 Actual and Planned

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)
Draft Earth Venture Instrument 6, Q4	(ROSES-2020), Heliophysics Technology and Instrument Development for Science, (Selections announced)
Earth System Explorer 1, Q4	(ROSES-2020) Astrophysics Research and Analysis (including technology development and sub-orbital investigations), (Selections announced)
2021 Astrophysics Medium-Class Explorers (MIDEX) and Missions of Opportunity, Mandatory NOIs due 11/2021, Proposals due 12/9/2021	(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.
	(ROSES-2021) Lunar Explorer Instrument for Space Biology Applications (Selections announced)
	(ROSES-2021) Astrophysics Pioneers, Proposals due TBD

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), Proposals due 10/1/20 <u>(Selections announced)</u>
	(ROSES-2020), In-space Validation of Earth Science Technologies, Proposals due 3/9/21 <u>(Selections announced)</u>
	(ROSES-2020) DALI, <u>(Selections announced)</u>
	(ROSES-2020) MatISSE, <u>(Selections announced)</u>
	(ROSES-2020) Heliophysics Technology and Instrument Development for Science, Proposals received 9/9/20 <u>(Selections announced)</u>
	(ROSES-2020) PICASSO, <u>(Selections announced)</u>

FY2019 Actual

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

FY2018 Actual

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

FY2017

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)	