**Announcement of Opportunity (AO) Solar Terrestrial Probes Program Dynamical Neutral Atmosphere-Ionosphere Coupling (DYNAMIC) Final Text Released**

Number:                            NNH23ZDA019O

Release Date: May 19, 2023

Pre-Proposal Conference Date:    June 6, 2023 (target)

Mandatory Notice of Intent to Propose Due: June 30, 2023

Proposals Due: August 22, 2023

Short, Direct URL: <https://go.nasa.gov/DynamicAO23>

The National Aeronautics and Space Administration (NASA) Science Mission Directorate (SMD) is announcing the release of the final text for the Announcement of Opportunity (AO) for Dynamical Neutral Atmosphere-Ionosphere Coupling (DYNAMIC)under the Solar Terrestrial Probes (STP) Program.

The NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES) is the official NASA source for the full text of the AO; therefore, please use the short URL provided or visit: [https://nspires.nasaprs.com/](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fnspires.nasaprs.com%2F&data=05%7C01%7Celisabeth.l.morse%40nasa.gov%7Ce636799b3f1e45922fae08db2c6afef5%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C638152610285556746%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=hoJqcFf5MHBy38qiDZzEk6eSSnn%2B85cBb2WD7I%2BmHiM%3D&reserved=0), choose “Solicitations” at the top of the page, and on the next page in the search box, input the number “NNH23ZDA019O.” In the event of any lapse in NASA operations, please visit NSPIRES for further information.

All investigations proposed in response to this solicitation must support the goals and objectives of the DYNAMIC mission of the STP Program, must be implemented by Principal Investigator (PI)-led investigation teams, and must be implemented through the provision of complete spaceflight projects under a not-to-exceed cost cap.

All proposed science investigations must present focused science objectives that address the high-level science goals recommended by the *2013 Decadal Survey for Solar and Space Physics: A Science for a Technological Society*. The 2013 Decadal Survey may be found at: [https://nap.nationalacademies.org/catalog/13060/solar-and-space-physics-a-science-for-a-technological-society](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fnap.nationalacademies.org%2Fcatalog%2F13060%2Fsolar-and-space-physics-a-science-for-a-technological-society&data=05%7C01%7Celisabeth.l.morse%40nasa.gov%7Ce636799b3f1e45922fae08db2c6afef5%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C638152610285556746%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=QJSqT9EIGQr%2BGEBSet8DlXIhy9jxSWQUFm7nYJTMjzQ%3D&reserved=0).

Proposed investigations will be evaluated, selected, and down-selected through a two-step competitive process. NASA intends to select approximately two Step-1 proposals for the conduct of Phase A concept studies and submission of Concept Study Reports to NASA. NASA expects to down-select up to one DYNAMIC mission to proceed into Phase B and subsequent mission phases.

The Government’s obligation to make awards is contingent upon the availability of sufficient appropriated funds from which payment can be made and the receipt of proposals that NASA determines are acceptable for award under this AO. All interested parties must read the final AO carefully for changes from the draft AO. All proposals to the final AO must comply with the requirements, constraints, and guidelines contained in the DYNAMIC Final AO. Any costs incurred in preparing submissions in response to this email or to the AO are incurred completely at the submitter's own risk.

Prospective investigators from any category of U.S. organizations or institutions are welcome to respond. Specific categories of organizations and institutions that are welcome to respond include, but are not limited to, educational; industrial; not-for-profit organizations; Federally Funded Research and Development Centers (FFRDCs), including the Jet Propulsion Laboratory (JPL); University Affiliated Research Centers (UARCs); NASA Centers; and other Government agencies. Non-U.S. organizations may participate on a no-exchange-of-funds basis. Both U.S. and non-U.S. participation are subject to China restrictions described in Section 4.2.2, *Restrictions Involving China*, and Section 5.7.1, *Overview of Non-U.S. Participation* of the AO.

The Science Office for Mission Assessments (SOMA) hosts the official “DYNAMIC Acquisition Homepage” that provides further information, including a Program Library and Question and Answer (Q&A) pages. SOMA will post inquiry responses at: <https://soma.larc.nasa.gov/STP/DYNAMIC/>.

A Preproposal Conference will be held in June. SOMA will post the Conference’s forthcoming agenda, logistics, date and time confirmation, *etc.*, on the Preproposal Conference page located on the DYNAMIC Acquisition Homepage. Presentations made at the Preproposal Conference, including answers to all questions addressed at the conference, will be posted on the DYNAMIC Acquisition Homepage.

The deadline for all questions is fourteen (14) days before the proposal due date. Proposers are encouraged to submit questions much earlier so that they may be addressed at the Pre-proposal Conference. Anonymity of persons/institutions who submit questions will be preserved. Questions and comments regarding the DYNAMIC AO should be emailed to both the STP Lead Program Scientist, Jared Leisner (jared.s.leisner@nasa.gov), and the DYNAMIC Acquisition Manager, Elisabeth Morse (elisabeth.l.morse@nasa.gov). The email subject line must read "DYNAMIC Final AO" to be properly routed.