



SCIENCE

Key Items from the JUICE PEA

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Scope of NASA Contributions



- The NASA contribution to the ESA JUICE mission shall potentially consist of three types of contributions:
 - 1) NASA-funded instrument investigations led by a U.S. Principal Investigator (PI),
 - 2) NASA-funded instrument component(s) provided to non-U.S.-led instrument(s), and
 - 3) NASA-funded U.S. Co-Investigators (Co-Is) on non-U.S.-led instrument(s).
- NASA's entire contribution consisting of the sum of all three types of contributions shall not exceed \$100M (RY) for total life cycle costs.
- Within this budget cap, NASA expects to select a mixture of the three types of contributions.



Selected Basic Solicitation Facts



- The actual JUICE solicitation is offered through a Program Element Appendix (PEA) K appended to the SALMON-2 AO.
 - The SALMON-2 AO provides the standard requirements for all SALMON-2 solicitations with JUICE-specific requirements specified in PEA K.
 - Deviations from standard requirements contained in the SALMON-2 AO are documented in PEA K.
 - Proposers must respond to the requirements in the SALMON-2 AO and the JUICE PEA per the order of precedence already discussed.
- The JUICE PEA is modeled after the Earth Venture PEA released as Appendix J with the SALMON-2 AO.
- The SALMON-2 PEA K solicits proposals for instrument investigations funded by NASA and led by a U.S. PI that address JUICE science objectives.
 - Proposers interested in the other two types of NASA contributions should respond to the ESA AO as members of a non-U.S.-led team.



Team Members

- One way NASA seeks to maximize the impact of its financially limited contribution is to focus on lean science teams for both U.S.-led and non-U.S.-led instruments.
- PEA K calls for all Co-Is to have a role that is required for the successful development of the instrument science investigation, and the necessity of that role must be justified.
 - The identification of any unjustified Co-Is will result in the downgrading of an investigation and/or the offer of only a partial selection by NASA.
- Scientists whose role is primarily operational and/or research oriented should propose to future planned opportunities to add scientists to assist with science operations prior to Jupiter arrival.



Science Data Policy



- All proposers are required to archive their data in both the NASA PDS and the ESA science data archive.
- For the purposes of this solicitation, proposers should follow the data policies in Section 4.5.4 of the JUICE PEA.
 - Final data policies will be negotiated after instrument selection and documented in a MOU between NASA and ESA and may differ from the policies in PEA K.
 - NASA-funded instruments will be required to abide by this MOU and adjust their data archiving plan accordingly.



Selected Exceptions to General SALMON-2 Requirements



- NASA will provide all proposals submitted in response to this PEA to ESA. The proposals will undergo the ESA review process concurrent with the standard NASA review described in Section 6 of this PEA.
- Requirement K-17 allows an extra 5 pages (40 pages total) for the Science Investigation Experiment Implementation, Investigation Implementation Schedule Foldout, and Management sections (Sections D, E, F, and G).
- NOIs were required to be submitted by July 27 to assist NASA and ESA in planning an evaluation process possessing additional complexity. Proposals will not be accepted to this solicitation without prior submission of a NOI by that deadline.
 - NASA realizes that the information in the NOI is not final and subject to change in the submitted proposal.



Possible Future Clarification to AO



- All proposals will be reviewed in their entirety by ESA
- While analysis shows the content requested by the ESA and NASA AOs are similar, proposers to the NASA AO are encouraged to remember that their proposals will be undergo both NASA and ESA evaluation.
 - We are compiling a requirements mapping between the NASA and ESA AOs and will post it when it is complete.
 - Proposers are encouraged to use the 5 additional pages to their advantage to accommodate review of their proposal by two separate review processes.
- To simplify ESA review of proposals submitted to NASA we are considering requiring NASA proposers to provide an appendix containing EID B from ESA.