

## Summary of Significant Changes Since Draft AO

A large number of changes have been made in the final Outer Planets Program AO since release of the draft in February 1999. Proposers are cautioned to read carefully the entire AO, Appendices, and related documents in the Outer Planets Program Library to be sure that they are familiar with the final proposal guidelines and Project information. A summary of the major differences between the draft and final versions of the AO and its supporting documents is given here in no particular order. Proposers are responsible for familiarizing themselves with the details of these and all other changes.

- Revised science resource allocations for all missions
- Allocated funding levels now viewed as cost guidelines, not caps, with cost a possibly significant discriminator in selection
- Eliminated categorization of science resource criticality levels
- Science measurement “requirements” changed to “objectives” for guidance only and are open to revision by proposers
- Modifications made to sample measurement objectives
- Emphasis added to clarify that strawman payloads are only examples
- Modifications made to strawman payload descriptions
- Revised instrument delivery dates
- Addition of science confirmation milestone
- Changes to Education and Public Outreach proposal requirements
- Updated Project schedules and organization charts
- Updated NASA cost inflation model
- Mission and Project Descriptions moved from AO Appendices to Program Library
- Updates to proposal due dates and selection dates
- Joint data sharing and analysis required among investigators for each mission
- Science impact of instrument descope strategies to be included in proposals
- Proposers asked to identify AO requirements that are cost and/or schedule drivers
- Updated S/C block diagrams and conceptual designs
- Updates to S/C pointing control and knowledge capabilities
- Provision of S/C interface simulators to PIs by Project now included
- Updated X2000 parts descriptions for science instrument use
- Added Shuttle bay cleanliness specification
- Noted possibility of change to Delta-IV/Atlas-V-class launch vehicle
- Europa facility radar resources opened up for competition; facility radar to be evaluated along with competing instrument proposals
- Additional options permitted for Europa instrument package proposals
- Role of Europa radar team members made more specific and description of expertise required in proposals
- Addition of assumed planetary protection requirements for Europa Orbiter proposals
- Revised Europa orbit phase mission description and observing time allocations
- Europa Orbiter science observing sequence definition no longer required for Jupiter tour and endgame periods
- Added spacecraft magnetic cleanliness requirement for Europa Orbiter

- Compact PCI electronics packaging encouraged for Europa and Pluto
- Replaced Small Deep Space Transponder with the Space Transponding Modem and revised Pluto radio science hardware interface description
- Corrected erroneous Pluto radiation dose level statement and plot
- Made Pluto optical navigation camera requirements consistent with advertised pointing stability
- Emphasized conceptual nature of Solar Probe extendible boom