

National Aeronautics and Space Administration



What's Next? Planning for the Future

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Future Missions

- Implementation of the current Earth Sciences Decadal Survey (2007) will not continue past the current set of missions in formulation
 - Missions (and the associated measurements) from the 1st Decadal Survey not currently planned for implementation will be reconsidered in the next Decadal Survey.
 - This includes ACE, HypsIRI, GEOCAPE and ASCENDS
- The second Earth Sciences Decadal Survey will be conducted over the next two years with publication expected in 2017
 - Missions from the 2nd Decadal Survey will launch in the 2023 and beyond timeframe

Planning for the Decadal Survey

- All indications are that the focus for the upcoming DS study will be on high priority science questions and associated measurements as opposed to mission concepts with specific instruments
- Opportunity to participate in DS – nominate yourself (or others): <http://tinyurl.com/nzmgozd>
- In addition, it is important to develop white papers that capture key science questions and measurements and socialize these papers within your community.

Earth Venture

Other primary opportunity for future missions is within the Earth Venture Program which has three elements:

- Earth Venture – Suborbital
 - \$30M Cap with 5 year duration
 - AO every 4 years – next AO expected ~ 2017
- Earth Venture Instruments
 - Class C (\$94M Cap) and Class D (\$30M Cap)
 - AO every 18 months
 - ~ Feb 2015, EV-I (3)
 - ~ August 2017, EV-I (4)
- Earth Venture Missions
 - Class D (\$166M Cap FY18\$)
 - AO every 4 years – next AO expected ~ July 2015

Earth Venture Mission

- The Draft solicitation for EV-M (2) has been released and the AO is expected sometime around July 1 with proposals due 3 months later.
- Changes from previous EV-M solicitation:
 - No ISS payloads to be proposed
 - Current Earth Science ISS payload backlog includes SAGE 3, EcoStress, GEDI, OCO-3, CLARREO Pathfinder, in addition to RapidScat and CATS already on dock.
 - Soliciting Free Flyer concepts or Hosted Payloads only
 - New requirement for inclusion of an Applications Manager/Lead

Future Opportunities Summary

Planning for the future:

- Focus on critical science questions and measurements – what have you learned since 2007 to should inform where your science should be in 2030. THINK BIG
- Decadal Survey opportunities will be limited – Earth Venture may be the more realistic path forward even with less than 100 percent of the desired science.
- Take advantage of the strong applications aspect and community support for anticipated HypsIRI data products and build that into a winning proposal
- Seek to establish and nurture partnerships with industry, academia, NGO, Government and international organizations