

PROPOSED SCIENCE FROM NASA'S EARTH VENTURE-1 (EV-1) AIRBORNE SCIENCE SELECTIONS

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ABSTRACT

NASA's Science Mission Directorate (SMD) recently announced the selection of five airborne science investigations resulting from the first Earth Venture (EV) call for proposals, EV-1. NASA initiated the Earth Venture program in response to a recommendation made by the National Research Council (NRC) in the 2007 Decadal Survey [1] for low-cost research and application investigations fostering innovation in Earth Science. The EV-1 solicitation targeted technically mature suborbital (airborne) earth science investigations with temporally sustained data acquisition [2]. A successful suborbital Venture-class investigation must have a life cycle of less than or equal to five years and total investigation cost not to exceed \$30 million. The awarded investigations were selected based on technical merit, science integrity with consideration for NASA's programmatic aim to contribute to as many Earth science focus areas as possible. Preference was given to investigations that utilized, complemented or augmented current NASA and non-NASA satellite observational capabilities and projects and products other NASA Science Programs or contributed to planning for future satellite observations and enhanced Earth system models.

At the time of this writing, NASA's EV-1 selections had not been announced. Selections are expected in late May 2010 and will be available on the NSPIRES website [3]. Descriptions of the awarded EV-1 airborne science investigations can be found in the full manuscript of this abstract.

The Earth Venture missions are managed out of the Earth System Science Pathfinder (ESSP) Program Office [4].

REFERENCES

[1] Earth Science and Applications from Space: National Imperatives for the Next Decade and Beyond, Committee on Earth Science and Applications from Space: A Community Assessment and Strategy for the Future, National Research Council, (2007).

[2] Amendment 9: New proposal opportunity in Appendix A.39: ESSP Venture-class Science Investigations: Earth Venture-1 and Appendix A.39: ESSP Venture-class Science Investigations: Earth Venture-1 from Research Opportunities in Space and Earth Sciences (ROSES) – 2009. Solicitation: NNH09ZDA001N, 2009.

[3] <http://nspires.nasaprs.com/>

[4] Management of NASA'S Earth Venture 1 (EV-1) Airborne Science Selections, International Geosciences and Remote Sensing Symposium (IGARSS), Honolulu, HI, July 2010.