

AMENDMENT NO. 39 TO THE NASA RESEARCH ANNOUNCEMENT (NRA) ENTITLED
"RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES (ROSES) 2011,"
NNH11ZDA001N, RELEASED FEBRUARY 12, 2011

New Solicitation in Appendix A.45: [Carbon Monitoring System \(CMS\) Program](#) in Earth Science.

Amendment 39 presents Appendix A.45, a new solicitation in ROSES-11 entitled Carbon Monitoring System (CMS): Continuing Prototype Product Development, Research, and Scoping.

This announcement offers opportunities for investigators to participate in continuing development towards a Carbon Monitoring System (CMS). Under its CMS initiative as directed by Congress in 2010, NASA initiated pre-Phase A and pilot studies and a scoping effort for a carbon monitoring system (<http://carbon.nasa.gov/>). This initial phase of CMS development activities is being carried out in 2010-2012 through directed research conducted at the NASA Goddard Space Flight Center (GSFC), the Jet Propulsion Laboratory (JPL), and the NASA Ames Research Center (ARC), guided by a competed Science Definition Team (SDT). The work conducted in this prototyping effort to date leverages the much larger investment currently made by NASA in satellite observations of carbon-related properties of the Earth, as well as in carbon cycle science and carbon management research. It also takes into account the efforts of other Federal agencies, especially as coordinated through the Carbon Cycle Interagency Working Group of the U.S. Global Change Research Program.

This solicitation requests proposals for additional CMS work to be conducted primarily by external organizations. This new work is intended to build upon the lessons learned in the pilot studies and scoping efforts and to further integrate NASA products and capabilities with those of other U.S. agencies and international entities. NASA seeks scientific and technical experts to shape and contribute to the next phase of development of a CMS – proposals offering both the development of specific next steps and the execution of the necessary tasks. Successful Principal Investigators (PI) will become members of the NASA CMS Science Team (ST).

Congress has directed that no less than one-half of the total funding shall be awarded externally. To achieve a balance between internal and external institutions and to facilitate transparency, each and every project selected under A.45 must have more than 50% of the funding awarded (or subawarded) to one or more external organizations. See Sections 3.2.1 and 4 of Appendix A.45 for details.

Notices of Intent are not requested. Proposals are due April 20, 2012.

Further information about this program element is available from Diane Wickland, Earth Science Division, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001. Email: Diane.E.Wickland@nasa.gov; Telephone: 202-358-0245.