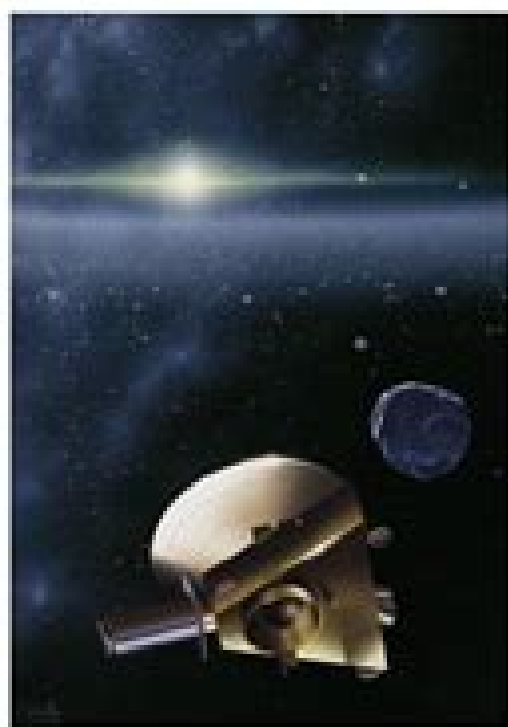


# New Frontiers Program

1<sup>st</sup> NF mission  
New Horizons:

Pluto-Kuiper Belt



Launched January 2006  
Flyby July 14, 2015  
PI: Alan Stern (SwRI-CO)

2<sup>nd</sup> NF mission  
Juno:

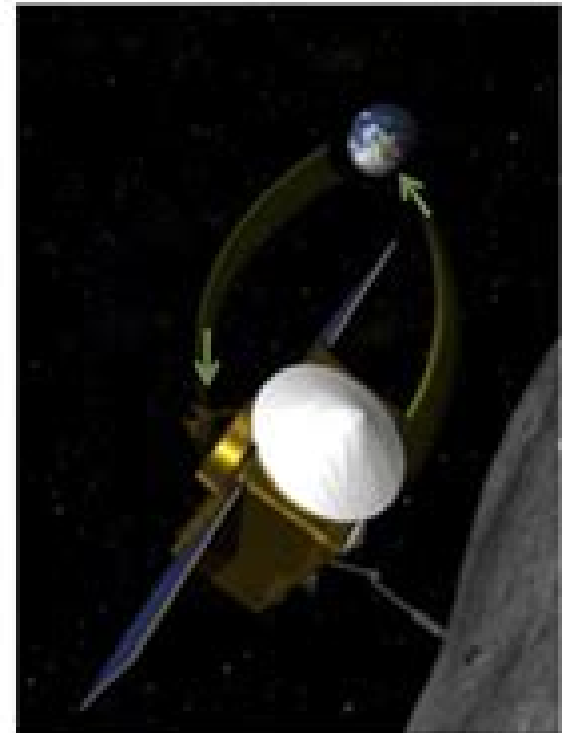
Jupiter Polar Orbiter



Launched August 2011  
Arrives July 4, 2016  
PI: Scott Bolton (SwRI-TX)

3<sup>rd</sup> NF mission  
OSIRIS-REx:

Asteroid Sample Return



Launch window: Sept. 8,  
2016  
PI: Dante Lauretta (UA)

## New Frontiers In Mission

**National Research Council, Division on  
Engineering and Physical  
Sciences, Space Studies  
Board, Committee on the Planetary  
Science Decadal Survey**

## **New Frontiers In Mission:**

**New Frontiers in Mission** Patrick Sookhdeo, 1987      Commerce, Justice, Science, and Related Agencies Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2014      **Home Mission Monthly**, 1895      Vision and Voyages for Planetary Science in the Decade 2013-2022 National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Planetary Science Decadal Survey, 2012-01-30

In recent years planetary science has seen a tremendous growth in new knowledge. Deposits of water ice exist at the Moon's poles. Discoveries on the surface of Mars point to an early warm wet climate and perhaps conditions under which life could have emerged. Liquid methane rain falls on Saturn's moon Titan creating rivers, lakes, and geologic landscapes with uncanny resemblances to Earth's. Vision and Voyages for Planetary Science in the Decade 2013-2022 surveys the current state of knowledge of the solar system and recommends a suite of planetary science flagship missions for the decade 2013-2022 that could provide a steady stream of important new discoveries about the solar system. Research priorities defined in the report were selected through a rigorous review that included input from five expert panels. NASA's highest priority large mission should be the Mars Astrobiology Explorer-Cacher (MAX-C), a mission to Mars that could help determine whether the planet ever supported life and could also help answer questions about its geologic and climatic history. Other projects should include a mission to Jupiter's icy moon Europa and its subsurface ocean and the Uranus Orbiter and Probe mission to investigate that planet's interior structure, atmosphere, and composition. For medium size missions, Vision and Voyages for Planetary Science in the Decade 2013-2022 recommends that NASA select two new missions to be included in its New Frontiers program which explores the solar system with frequent mid-size spacecraft missions. If NASA cannot stay within budget for any of these proposed flagship projects, it should focus on smaller, less expensive missions. First, Vision and Voyages for Planetary Science in the Decade 2013-2022 suggests that the National Science Foundation expand its funding for existing laboratories and establish new facilities as needed. It also recommends that the program enlist the participation of international partners. This report is a vital resource for government agencies supporting space science, the planetary science community, and the public.

*Opening New Frontiers in Space* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on New Opportunities in Solar System Exploration: An Evaluation of the New Frontiers Announcement of Opportunity, 2008-07-21

The New Frontiers Program was created by NASA in 2002 at the recommendation of the NRC's decadal survey for solar system research. In order to optimize solar system research, the NRC recommended a series of principal investigator missions that encourage innovation and accomplish the main scientific objectives presented in the survey. Two of the five recommended missions have been selected, and as was also recommended in the survey, the NRC was asked in 2007 to provide criteria and guiding principles to NASA for determining the list of candidate missions. This book presents a review of

eight missions the three remaining from the original list of five from the survey plus five missions considered by the survey committee but which were not recommended Included in the review of each mission is a discussion of relevant science and technology developments since the survey and set of recommended science goals

**Visions into Voyages for Planetary Science in the Decade 2013-2022** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of Progress Toward Implementing the Decadal Survey Vision and Voyages for Planetary Sciences, 2018-11-30 In spring 2011 the National Academies of Sciences Engineering and Medicine produced a report outlining the next decade in planetary sciences That report titled Vision and Voyages for Planetary Science in the Decade 2013 2022 and popularly referred to as the decadal survey has provided high level prioritization and guidance for NASA s Planetary Science Division Other considerations such as budget realities congressional language in authorization and appropriations bills administration requirements and cross division and cross directorate requirements notably in retiring risk or providing needed information for the human program are also necessary inputs to how NASA develops its planetary science program In 2016 NASA asked the National Academies to undertake a study assessing NASA s progress at meeting the objectives of the decadal survey After the study was underway Congress passed the National Aeronautics and Space Administration Transition Authorization Act of 2017 which called for NASA to engage the National Academies in a review of NASA s Mars Exploration Program NASA and the Academies agreed to incorporate that review into the midterm study That study has produced this report which serves as a midterm assessment and provides guidance on achieving the goals in the remaining years covered by the decadal survey as well as preparing for the next decadal survey currently scheduled to begin in 2020 *Mission Frontiers Volume 1* Ralph D. Winter, 2004

**Principal-Investigator-Led Missions in the Space Sciences** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Principal-Investigator-Led Missions in the Space Sciences, 2006-04-22 Principal Investigator Led PI led missions are an important element of NASA s space science enterprise While several NRC studies have considered aspects of PI led missions in the course of other studies for NASA issues facing the PI led missions in general have not been subject to much analysis in those studies Nevertheless these issues are raising increasingly important questions for NASA and it requested the NRC to explore them as they currently affect PI led missions Among the issues NASA asked to have examined were those concerning cost and scheduling the selection process relationships among PI led team members and opportunities for knowledge transfer to new PIs This report provides a discussion of the evolution and current status of the Piled mission concept the ways in which certain practices have affected its performance and the steps that can carry it successfully into the future The study was done in collaboration with the National Academy of Public Administration **NASA's Science Mission Directorate** United States. Congress. House. Committee on Science, 2006

*Solar System Exploration* ,2006 **Departments of Veterans Affairs and Housing and Urban Development, and**

**Independent Agencies Appropriations for 2003: Testimony of members of Congress and other interested individuals and organizations** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,2002      **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2003** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,2002      Commerce, Justice, Science, and Related Agencies Appropriations for 2016 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2015      **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2003: National Aeronautics and Space Administration** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,2002      **Men and Missions** ,1912      **Grading NASA's Solar System Exploration Program** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Assessing the Solar System Exploration Program,2008-04-25 The NASA Authorization Act of 2005 directed the agency to ask the NRC to assess the performance of each division in the NASA Science directorate at five year intervals In this connection NASA requested the NRC to review the progress the Planetary Exploration Division has made in implementing recommendations from previous relevant NRC studies This book provides an assessment of NASA s progress in fulfilling those recommendations including an evaluation how well it is doing and of current trends The book covers key science questions flight missions Mars exploration research and analysis and enabling technologies Recommendations are provided for those areas in particular need of improvement      **NASA's Science Priorities** United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics,2002

**Review of Goals and Plans for NASA's Space and Earth Sciences** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Panel on Review of NASA Science Strategy Roadmaps,2006-04-05 Both the President s commission on how to implement the President s space exploration initiative and Congress asked the NRC undertake an assessment and review of the science proposed to be carried out under the initiative An initial response to that request was the NRC February 2005 report Science in NASA s Vision for Space Exploration While that report s preparation NASA created capabilities and strategy roadmapping efforts which became the object of the next phase of the NRC review The new NASA administrator modified that NASA activity resulting in changes in the NRC review effort This report provides a review of six science strategy roadmaps robotic and human exploration of Mars solar system exploration universe exploration search for earth like planets earth science and applications from space and sun earth system connection In addition an assessment of cross cutting and integration issues is presented      **Commerce, Justice, Science, and Related Agencies Appropriations for 2017: Justification of the budget estimates** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2016      *NASA'S Fiscal*

*Year 2010 Budget Request* United States. Congress. House. Committee on Science and Technology (2007),2009

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