

# Supporting Research and Data Analysis in NASA's Science Programs

ENGINES FOR INNOVATION AND  
SYNTHESIS

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SPACE STUDIES BOARD  
NATIONAL RESEARCH COUNCIL

# Supporting Research Data Analysis In Nasas Science Programs Engines For Innovation Synthesis

**National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Board on Physics and Astronomy, Committee for a Decadal Survey of Astronomy and Astrophysics**

## **Supporting Research Data Analysis In Nasas Science Programs Engines For Innovation Synthesis:**

**Supporting Research and Data Analysis in NASA's Science Programs** National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Task Group on Research and Analysis Programs, 1998-11-16 Effective science clearly a mandate for the National Aeronautics and Space Administration NASA involves asking significant questions about the physical and biological world and seeking definitive answers Its product is new knowledge that has value to the nation NASA s flight projects are highly visible and usually the most costly elements of this process but they are only a part of the science enterprise Flight projects are founded on research that defines clear scientific goals and questions designs missions to address those questions and develops the required technologies to accomplish the missions This research is funded primarily by NASA s research and analysis R A programs Data from flight projects are transformed into knowledge through analysis and synthesis research that is funded both by R A and by the data analysis DA portion of mission operations and data analysis MO DA programs R A and DA programs are the subject of this report and are grouped for convenience under the heading of research and data analysis R DA

*An Enabling Foundation for NASA's Earth and Space Science Missions* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Role and Scope of Mission-Enabling Activities in NASA's Space and Earth Science Missions, 2010-03-25 NASA s space and Earth science program is composed of two principal components spaceflight projects and mission enabling activities Most of the budget of NASA s Science Mission Directorate SMD is applied to spaceflight missions but NASA identifies nearly one quarter of the SMD budget as mission enabling The principal mission enabling activities which traditionally encompass much of NASA s research and analysis R suborbital payloads and flights and complementary ground based programs advanced technology development and advanced mission and instrumentation concept studies While the R A program is essential to the development and support of NASA s diverse set of space and Earth science missions defining and articulating an appropriate scale for mission enabling activities have posed a challenge throughout NASA s history This volume identifies the appropriate roles for mission enabling activities and metrics for assessing their effectiveness Furthermore the book evaluates how from a strategic perspective decisions should be made about balance between mission related and mission enabling elements of the overall program as well as balance between various elements within the mission enabling component Collectively these efforts will help SMD to make a good program even better

**Review of the Restructured Research and Analysis Programs of NASA's Planetary Science Division** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of NASA's Planetary Science Division's Restructured Research and Analysis Program, 2017-07-22 The Research and Analysis R laboratory research theoretical modeling and computational studies geological and astrobiological fieldwork in planetary analog environments on Earth geological mapping of planetary bodies

analysis of data from Earth and space based telescopes and development of flight instruments and technology needed for future planetary science missions The primary role of the PSD R A program is to address NASA s strategic objective for planetary science and PSD s science goals Recently PSD reorganized the R A program to provide better alignment with the strategic goals for planetary sciences The major changes in the R A program involved consolidating a number of prior program elements many of which were organized by subdiscipline into a smaller number of thematic core research program elements Despite numerous efforts by PSD to communicate the rationale for the reorganization and articulate clearly the new processes there has been significant resistance from the planetary science community and concerns in some sectors regarding the major realignment of funding priorities Review of NASA s Planetary Science Division s Restructured Research and Analysis Programs examines the new R A program and determines if it appropriately aligns with the agency s strategic goals supports existing flight programs and enables future missions This report explores whether any specific research areas or subdisciplinary groups that are critical to NASA s strategic objectives for planetary science and PSD s science goals are not supported appropriately in the current program or have been inadvertently disenfranchised through the reorganization

**Fiscal Year 2000 NASA Authorization, Parts I-V** United States. Congress. House. Committee on Science.

Subcommittee on Space and Aeronautics,1999 *New Worlds, New Horizons in Astronomy and Astrophysics* National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Board on Physics and Astronomy,Committee for a Decadal Survey of Astronomy and Astrophysics,2011-02-04 Driven by discoveries and enabled by leaps in technology and imagination our understanding of the universe has changed dramatically during the course of the last few decades The fields of astronomy and astrophysics are making new connections to physics chemistry biology and computer science Based on a broad and comprehensive survey of scientific opportunities infrastructure and organization in a national and international context *New Worlds New Horizons in Astronomy and Astrophysics* outlines a plan for ground and space based astronomy and astrophysics for the decade of the 2010 s Realizing these scientific opportunities is contingent upon maintaining and strengthening the foundations of the research enterprise including technological development theory computation and data handling laboratory experiments and human resources *New Worlds New Horizons in Astronomy and Astrophysics* proposes enhancing innovative but moderate cost programs in space and on the ground that will enable the community to respond rapidly and flexibly to new scientific discoveries The book recommends beginning construction on survey telescopes in space and on the ground to investigate the nature of dark energy as well as the next generation of large ground based giant optical telescopes and a new class of space based gravitational observatory to observe the merging of distant black holes and precisely test theories of gravity *New Worlds New Horizons in Astronomy and Astrophysics* recommends a balanced and executable program that will support research surrounding the most profound questions about the cosmos The discoveries ahead will facilitate the search for habitable planets shed light on dark energy and dark matter

and aid our understanding of the history of the universe and how the earliest stars and galaxies formed The book is a useful resource for agencies supporting the field of astronomy and astrophysics the Congressional committees with jurisdiction over those agencies the scientific community and the public *Federal Funding of Astronomical Research* National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Board on Physics and Astronomy, Committee on Astronomy and Astrophysics, 2000-01-01 The Committee on Astronomy and Astrophysics CAA at its meeting on September 8 1997 was briefed on the legislative report accompanying the bill to authorize appropriations for fiscal years 1998 and 1999 for the National Science Foundation NSF The report raised a number of questions about trends in support for research in astronomy and the overall robustness of the programs providing that support At its meeting the CAA heard the views of NSF and the National Aeronautics and Space Administration NASA on these issues In consultation with the Board on Physics and Astronomy the Space Studies Board and representatives of NASA and NSF the committee accepted the task of studying three of the questions raised by the House Science Committee HSC It was intended that the results of the study would help guide federal support of basic research for the next decade and serve as analytical input to the new 2000 decadal survey of the Astronomy and Astrophysics Survey Committee AASC The study would not offer specific funding recommendations but rather would provide a background analysis of the alignment between available resources agency priorities and the vitality of the basic research program **Space Studies Board Annual Report 2017** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, 2018-12-19 The original charter of the Space Science Board was established in June 1958 three months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress **Space Studies Board Annual Report 2017** covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Academies of Sciences Engineering and Medicine units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers Fiscal Year 2001 NASA Authorization United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics, 2001 *Space Studies Board Annual Report 2014* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2015-04-10 The original

charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2014 covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers *Space Studies Board Annual Report 2013* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2014-04-09 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2013 covers a message from the chair of the SSB Charles F Kennel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers *Assessment of Mission Size Trade-offs for NASA's Earth and Space Science Missions* National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Ad Hoc Committee on the Assessment of Mission Size Trade-offs for Earth and Space Science Missions, 2000-08-31 *Assessment of Mission Size Trade-offs for NASA's Earth and Space Science Missions* addresses fundamental issues of mission architecture in the nation's scientific space program and responds to the FY99 Senate conference report which requested that NASA commission a study to assess the strengths and weaknesses of small medium and large missions This report evaluates the general strengths and weaknesses of small medium and large missions in terms of their potential scientific productivity responsiveness to evolving

opportunities ability to take advantage of technological progress and other factors that may be identified during the study identifies which elements of the SSB and NASA science strategies will require medium or large missions to accomplish high priority science objectives and recommends general principles or criteria for evaluating the mix of mission sizes in Earth and space science programs Assessment of Mission Size Trade offs for NASA s Earth and Space Science Missions considers not only scientific technological and cost trade offs but also institutional and structural issues pertaining to the vigor of the research community government industry university partnerships graduate student training and the like

**Space Studies Board Annual Report 2010** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2011-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR This volume reviews the organization activities and reports of the SSB for the year 2010

**Space Studies Board Annual Report 2009** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2010-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR The present volume reviews the organization activities and reports of the SSB for the year 2009

**Exploring Mars and Beyond** United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Space and Aeronautics, 2012

**Space Studies Board Annual Report** National Research Council (U.S.). Space Studies Board, 1999

The Threat of Near-earth Asteroids United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics, 2003

**The Sun to the Earth and Beyond** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Solar and Space Physics, Solar and Space Physics Survey Committee, 2003-12-17 This volume The Sun to the Earth and Beyond Panel Reports is a compilation of the reports from five National Research Council NRC panels convened as part of a survey in solar and space physics for the period 2003 2013 The NRC s Space

Studies Board and its Committee on Solar and Space Physics organized the study. Overall direction for the survey was provided by the Solar and Space Physics Survey Committee whose report *The Sun to the Earth and Beyond: A Decadal Research Strategy in Solar and Space Physics* was delivered to the study sponsors in prepublication format in August 2002. The final version of that report was published in June 2003. The panel reports provide both a detailed rationale for the survey committee's recommendations and an expansive view of the numerous opportunities that exist for a robust program of exploration in solar and space physics.

**Science Advice to NASA** Joseph K. Alexander, 2017. This book documents highlights of NASA's interactions with outside scientific advisors over the agency's full lifetime and draws lessons from that history for research managers, decision makers, and scientists. The book is divided into three parts: the first two being focused on history and the third on synthesis and analysis. Part 1 briefly examines early forerunner activities at NACA and in the decade leading up to NASA's formation and it then considers NASA's use of outside advice during its first three decades. Part 2 picks up the story in 1988 and follows it up to 2016. Part 3 examines a sampling of case studies, discusses recurring characteristics of notably successful advisory activities, and provides a glimpse at what past experience might imply for the future of scientific advice at NASA. The last two chapters provide big picture summaries of themes that have emerged from earlier discussions.

**Scientific and Technical Aerospace Reports**, 1995      **Science and Government Report**, 2000



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