

EXECUTIVE SUMMARY

# The Sun to the Earth —and Beyond

*A Decadal Research Strategy in  
Solar and Space Physics*



NATIONAL RESEARCH COUNCIL  
OF THE NATIONAL ACADEMIES

# Sun To The Earth And Beyond A Decadal Research Strategy In Solar And Space Physics

**National Research Council, Division on  
Engineering and Physical  
Sciences, Aeronautics and Space  
Engineering Board, Space Studies  
Board, Committee on Priorities for  
Space Science Enabled by Nuclear  
Power and Propulsion**

## **Sun To The Earth And Beyond A Decadal Research Strategy In Solar And Space Physics:**

**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

**The Sun to the Earth--and Beyond** National Research Council (U.S.), Solar and Space Physics Survey Committee Staff, 2002

**The Sun to the Earth -- And Beyond** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Solar and Space Physics Survey Committee, 2003-07 The sun is the source of energy for life on earth and is the strongest modulator of the human physical environment In fact the Sun's influence extends throughout the solar system both through photons which provide heat light and ionization and through the continuous outflow of a magnetized supersonic ionized gas known as the solar wind While the accomplishments of the past decade have answered important questions about the physics of the Sun the interplanetary medium and the space environments of Earth and other solar system bodies they have also highlighted other questions some of which are long standing and fundamental The Sun to the Earth and Beyond organizes these questions in terms of five challenges that are expected to be the focus of scientific investigations in solar and space physics during the coming decade and beyond

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, 2003-11-17 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

**Solar and Space Physics and Its Role in Space Exploration** National Research Council, Division on

Engineering and Physical Sciences, Space Studies Board, Committee on the Assessment of the Role of Solar and Space Physics in NASA's Space Exploration Initiative, 2004-11-11 In February 2004 the President announced a new goal for NASA to use humans and robots together to explore the Moon Mars and beyond In response to this initiative NASA has adopted new exploration goals that depend in part on solar physics research These actions raised questions about how the research agenda recommended by the NRC in its 2002 report *The Sun to the Earth and Beyond* which did not reflect the new exploration goals would be affected As a result NASA requested the NRC to review the role solar and space physics should play in support of the new goals This report presents the results of that review It considers solar and space physics both as aspects of scientific exploration and in support of enabling future exploration of the solar system The report provides a series of recommendations about NASA's Sun Earth Connections program to enable it to meet both of those goals A

Performance Assessment of NASA's Heliophysics Program National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Heliophysics Performance Assessment, 2009-04-24 Since the 1990s the pace of discovery in the field of solar and space physics has accelerated largely owing to NASA investments in its Heliophysics Great Observatory fleet of spacecraft These enable researchers to investigate connections between events on the Sun and in the space environment by combining multiple points of view Recognizing the importance of observations of the Sun to Earth system the National Research Council produced a solar and space physics decadal survey in 2003 laying out the Integrated Research Strategy This strategy provided a prioritized list of flight missions plus theory and modeling programs that would advance the relevant physical theories incorporate those theories in models that describe a system of interactions between the Sun and the space environment obtain data on the system and analyze and test the adequacy of the theories and models Five years later this book measures NASA's progress toward the goals and priorities laid out in the 2003 study Unfortunately very little of the recommended priorities will be realized before 2013 Mission cost growth reordering of survey mission priorities and unrealized budget assumptions have delayed nearly all of the recommended NASA spacecraft missions The resulting loss of synergistic capabilities in space will constitute a serious impediment to future progress **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 *Science in NASA's Vision for Space Exploration* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Scientific Context for Space Exploration, 2005-02-01 In January 2004 President Bush announced a new space policy directed at human and robotic exploration of space The National Academies released a report at the same time that independently addressed many of the issues contained in the new policy In June the President's Commission on Implementation of United States Space Exploration Policy issued a report recommending that NASA ask the National Research Council NRC to reevaluate space science priorities to take advantage of the exploration vision Congress also directed the NRC to conduct a thorough review of the science NASA is proposing to undertake within the initiative This report provides an initial response to those requests It presents guiding principles for selecting science missions that enhance and support the exploration program The report also presents findings and recommendations to help guide NASA's space exploration strategic planning activity Separate NRC reviews will be carried out of strategic roadmaps that NASA is developing to implement the policy Review of the Draft 2014 Science Mission Directorate Science Plan Committee on the Assessment of the NASA Science Mission Directorate 2014 Science Plan, Space Studies Board, Division on Engineering and Physical Sciences, National Research Council, 2013-12-16 NASA's Science Mission Directorate SMD is engaged in the final stages of a comprehensive agency wide effort to develop a new strategic plan at a time when its budget is under considerable stress SMD's Science Plan serves to provide more detail on its four traditional science disciplines astronomy and astrophysics solar and space physics also called heliophysics planetary science and Earth remote sensing and related activities than is possible in the agency wide Strategic Plan Review of the Draft 2014 Science Mission Directorate Science Plan comments on the responsiveness of SMD's Science Plan to the National Research Council's guidance on key science issues and opportunities in recent NRC decadal reports This study focuses on attention to interdisciplinary aspects and overall scientific balance identification and exposition of important opportunities for partnerships as well as education and public outreach and integration of technology development with the science program The report provides detailed findings and recommendations relating to the draft Science Plan **Issues and Opportunities Regarding the U.S. Space Program** National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Pamela L. Whitney, Richard B. Leshner, Radford Byerly, Jr., 2004-03-02 Ever since the completion of the Apollo program there has been a lack of consensus about the future of human spaceflight The Columbia tragedy in February 2003 rekindled public debate about this question In November 2003 the Space Studies Board and the Aeronautics and Space Engineering Board organized a workshop to explore aspects of the question what should be the principal purpose goals and priorities of the U S civil space program This report presents a factual summary of that workshop which identified past lessons learned and guiding principles for the future of the civil space program Seven broad themes emerged from the workshop and these themes are highlighted in the report The report

also presents discussions of strategies for the human spaceflight program and guiding principles of and boundary conditions for a 21st century space policy

The Mathematical Sciences in 2025 National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on the Mathematical Sciences in 2025, 2013-06-13 The mathematical sciences are part of nearly all aspects of everyday life the discipline has underpinned such beneficial modern capabilities as Internet search medical imaging computer animation numerical weather predictions and all types of digital communications The Mathematical Sciences in 2025 examines the current state of the mathematical sciences and explores the changes needed for the discipline to be in a strong position and able to maximize its contribution to the nation in 2025 It finds the vitality of the discipline excellent and that it contributes in expanding ways to most areas of science and engineering as well as to the nation as a whole and recommends that training for future generations of mathematical scientists should be re assessed in light of the increasingly cross disciplinary nature of the mathematical sciences In addition because of the valuable interplay between ideas and people from all parts of the mathematical sciences the report emphasizes that universities and the government need to continue to invest in the full spectrum of the mathematical sciences in order for the whole enterprise to continue to flourish long term

*Space Exploration* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 2014

*Priorities in Space Science Enabled by Nuclear Power and Propulsion* National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee on Priorities for Space Science Enabled by Nuclear Power and Propulsion, 2006-04-20 In 2003 NASA began an R D effort to develop nuclear power and propulsion systems for solar system exploration This activity renamed Project Prometheus in 2004 was initiated because of the inherent limitations in photovoltaic and chemical propulsion systems in reaching many solar system objectives To help determine appropriate missions for a nuclear power and propulsion capability NASA asked the NRC for an independent assessment of potentially highly meritorious missions that may be enabled if space nuclear systems became operational This report provides a series of space science objectives and missions that could be so enabled in the period beyond 2015 in the areas of astronomy and astrophysics solar system exploration and solar and space physics It is based on but does not reprioritize the findings of previous NRC decadal surveys in those three areas

**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, 2006-05-05 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 *Managing Space Radiation Risk in the New Era of Space Exploration* National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee on the Evaluation of Radiation Shielding for Space Exploration, 2008-06-29 As part of the Vision for Space Exploration VSE NASA is planning for humans to revisit the Moon and someday go to Mars An important consideration in this effort is protection against the exposure to space radiation That radiation might result in severe long term health consequences for astronauts on such missions if they are not adequately shielded To help with these concerns NASA asked the NRC to further the understanding of the risks of space radiation to evaluate radiation shielding requirements and recommend a strategic plan for developing appropriate mitigation capabilities This book presents an assessment of current knowledge of the radiation environment an examination of the effects of radiation on biological systems and mission equipment an analysis of current plans for radiation protection and a strategy for mitigating the risks to VSE astronauts **Steps to Facilitate Principal-Investigator-Led Earth Science Missions** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Earth Studies, 2004-05-21 Principal investigator PI Earth science missions are small focused science projects involving relatively small spacecraft The selected PI is responsible for the scientific and programmatic success of the entire project A particular objective of PI led missions has been to help develop university based research capacity Such missions however pose significant challenges that are beyond the capabilities of most universities to manage To help NASA s Office of Earth Science determine how best to address these the NRC carried out an assessment of key issues relevant to the success of university based PI led Earth observation missions This report presents the result of that study In particular the report provides an analysis of opportunities to enhance such missions and recommendations about whether and if so how they should be used to build university based research capabilities **Strengthening NASA's Technology Development Programs** United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Space and Aeronautics, 2010 [Assessment of Options for Extending the Life of the Hubble Space Telescope](#) National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee on the Assessment of Options for Extending the Life of the Hubble Space Telescope, 2005-03-28 The Hubble Space Telescope HST has operated continuously since 1990 During that time four space shuttle based service missions were launched three of which added major observational capabilities A fifth SM 4 was intended to replace key telescope systems and install two new instruments The loss of the space shuttle Columbia however resulted in a decision by NASA not to pursue the SM 4 mission leading to a likely end of Hubble s useful life in 2007 2008

This situation resulted in an unprecedented outcry from scientists and the public. As a result, NASA began to explore and develop a robotic servicing mission, and Congress directed NASA to request a study from the National Research Council (NRC) of the robotic and shuttle servicing options for extending the life of Hubble. This report presents an assessment of those two options. It provides an examination of the contributions made by Hubble and those likely as the result of a servicing mission, and a comparative analysis of the potential risk of the two options for servicing Hubble. The study concludes that the Shuttle option would be the most effective one for prolonging Hubble's productive life.

Assessment of Impediments to Interagency Collaboration on Space and Earth Science Missions National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Assessment of Impediments to Interagency Cooperation on Space and Earth Science Missions, 2011-07-01. Through an examination of case studies, agency briefings, and existing reports, and drawing on personal knowledge and direct experience, the Committee on Assessment of Impediments to Interagency Cooperation on Space and Earth Science Missions found that candidate projects for multiagency collaboration in the development and implementation of Earth observing or space science missions are often intrinsically complex and therefore costly, and that a multiagency approach to developing these missions typically results in additional complexity and cost. Advocates of collaboration have sometimes underestimated the difficulties and associated costs and risks of dividing responsibility and accountability between two or more partners; they also discount the possibility that collaboration will increase the risk in meeting performance objectives. This committee's principal recommendation is that agencies should conduct Earth and space science projects independently unless it is judged that cooperation will result in significant added scientific value to the project over what could be achieved by a single agency alone, or unique capabilities reside within one agency that are necessary for the mission success of a project managed by another agency, or the project is intended to transfer from research to operations, necessitating a change in responsibility from one agency to another during the project, or there are other compelling reasons to pursue collaboration, for example, a desire to build capacity at one of the cooperating agencies. Even when the total project cost may increase, parties may still find collaboration attractive if their share of a mission is more affordable than funding it alone. In these cases, alternatives to interdependent reliance on another government agency should be considered. For example, agencies may find that buying services from another agency or pursuing interagency coordination of spaceflight data collection is preferable to fully interdependent cooperation.

**Plasma Science** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Plasma Science Committee, Plasma 2010 Committee, 2008-01-20. As part of its current physics decadal survey, Physics 2010, the NRC was asked by the DOE, NSF, and NASA to carry out an assessment of and outlook for the broad field of plasma science and engineering over the next several years. The study was to focus on progress in plasma research, identify the most compelling new scientific opportunities, evaluate prospects for broader application of plasmas, and offer guidance to realize these opportunities. The



study paid particular attention to these last two points. This demand side perspective provided a clear look at what plasma research can do to help achieve national goals of fusion energy economic competitiveness and nuclear weapons stockpile stewardship. The report provides an examination of the broad themes that frame plasma research: low temperature plasma science and engineering, plasma physics at high energy density, plasma science of magnetic fusion, space and astrophysical science, and basic plasma science. Within those themes, the report offers a bold vision for future developments in plasma science.

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