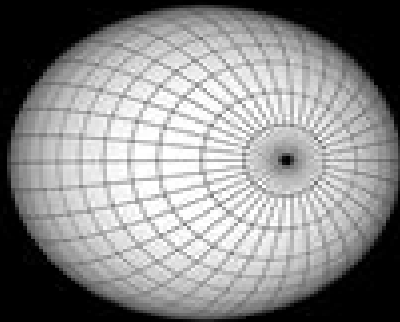
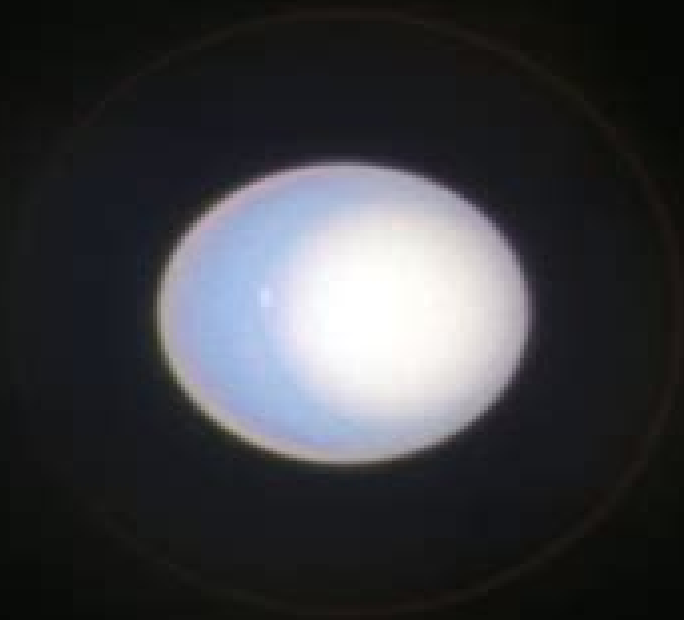
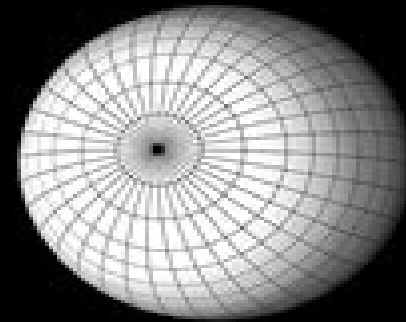


Uranus – September 17, 2023

View from
Hubble



View from
New Horizons



New Horizons Explorations In Science

**National Academies of Sciences,
Engineering, and Medicine, Division on
Engineering and Physical
Sciences, Space Studies
Board, Committee on a Framework for
Analyzing the Needs for Continuity of
NASA-Sustained Remote Sensing
Observations of the Earth from Space**

New Horizons Explorations In Science:

New Horizons Petr Dem'ianovich Uspenskiĭ, 1990

Chasing New Horizons Alan Stern, David Grinspoon, 2024-08-06

This insider account is thoroughly captivating Suffused with scientific wonder a top notch documentation of intrepid planetary exploration Kirkus Reviews starred review On July 14 2015 something amazing happened More than three billion miles from Earth a small NASA spacecraft called New Horizons screamed past Pluto at more than 32 000 miles per hour focusing its instruments on the long mysterious icy worlds of the Pluto system and then just as quickly continued on its journey out into the beyond Nothing like this has occurred in a generation a raw exploration of new worlds unparalleled since NASA's Voyager missions to Uranus and Neptune At a time when so many think that our most historic achievements are in the past the most distant planetary exploration ever attempted not only succeeded but made history and captured the world's imagination How did this happen *Chasing New Horizons* is the story of the men and women behind this amazing mission of their decades long commitment and persistence of the political fights within and outside of NASA of the sheer human ingenuity it took to design build and fly the mission Told from the insider's perspective of mission leader Dr Alan Stern and others on New Horizons and including two stunning sixteen page full color inserts of images *Chasing New Horizons* is a riveting account of scientific discovery Spellbinding *Scientific American* Riveting Even though we know the final outcome the story continues to be a nail biter *The Wall Street Journal* Remarkable take's you on an uplifting exhilarating fascinating journey all without leaving the comfort and oxygen of our planet *Chicago Tribune* Thrilling a future classic of popular science *Publishers Weekly*

Robotic Exploration of the Solar System Paolo Ulivi, David M. Harland, 2014-09-16 In *Robotic Exploration of the Solar System* Paolo Ulivi and David Harland provide a comprehensive account of the design and management of deep space missions the spacecraft involved some flown others not their instruments and their scientific results This fourth volume in the series covers the period 2004 to the present day and features coverage of the Rosetta and Curiosity missions up to the end of 2013 coverage of Mars missions since 2005 including the Mars Reconnaissance Orbiter Phoenix and Fobos Grunt plus a description of plans for future robotic exploration of the Red Planet coverage of all planetary missions launched between 2004 and 2013 including the Deep Impact cometary mission the MESSENGER Mercury orbiter the New Horizons Pluto flyby and the Juno Jupiter orbiter the first complete description of the Chinese Chang e 2 asteroid flyby mission ever published extensive coverage of future missions including the European BepiColombo Mercury orbiter and international plans to revisit the most interesting moons of Jupiter and Saturn

Recapturing a Future for Space Exploration National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee for the Decadal Survey on Biological and Physical Sciences in Space, 2012-01-30 More than four decades have passed since a human first set foot on the Moon Great strides have been made in our understanding of what is required to support an enduring human presence in space as evidenced by progressively more advanced orbiting

human outposts culminating in the current International Space Station ISS. However, of the more than 500 humans who have so far ventured into space, most have gone only as far as near Earth orbit and none have traveled beyond the orbit of the Moon. Achieving human progress into the solar system has proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than 50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles, an achievement made possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration and by its use of human space exploration infrastructures for scientific discovery. The Committee for the Decadal Survey of Biological and Physical Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade, however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory or to effectively pursue the scientific research needed to support the development of advanced human exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and value of human spaceflight, thereby enabling the U.S. space program to deliver on new exploration initiatives that serve the nation, excite the public, and place the United States again at the forefront of space exploration for the global good. *New Horizons*, Petr Dem'ianovich Uspenskiĭ, 1934.

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

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

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

Ices in the Solar-System Richard Soare, Jean-Pierre Williams, Caitlin Ahrens, Frances Butcher, Mohamed Ramy El-Maarry, 2023-11-20

Ices in the Solar System A Volatile Driven Journey from the Inner Solar System to its Far Reaches details the evolution of ice on planetary bodies within the Solar System including terrestrial planets and the Moon Ceres and other dwarf planets or volatile asteroids icy Galilean and Saturnian satellites Triton and disparate Uranian moons and Pluto other Kuiper belt objects and comets The book provides a view of different ice types throughout the Solar System i e H₂O CO₂ CH₄ etc that characterize icy processes on disparate bodies Ice and icy processes at micro through macro scales are discussed The book geographically spans the major planetary bodies of the Solar System covering surface and subsurface geologies geophysics and geochemistry of ices to answer questions such as the nature and extent of water ice and different frozen volatile species how do ices give us clues to interiors and oceans and more Draws a pan solar system view of various ice species Identifies and addresses outstanding and sometimes puzzling questions about these ices Describes the dynamic relationships between these ices and the geological history of the planets moons and smaller bodies where they occur Studies these relationships using multiple analytical scales and techniques

Landsat and Beyond National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Implementation of a Sustained Land Imaging Program, 2014-01-03

In 1972 NASA launched the Earth Resources Technology Satellite ERTS now known as Landsat 1 and on February 11 2013 launched Landsat 8 Currently the United States has collected 40 continuous years of satellite records of land remote sensing data from satellites similar to these Even though this data is valuable to improving many different aspects of the country such as agriculture homeland security and disaster mitigation the availability of this data for planning our nation's future is at risk Thus the Department of the Interior's DOI's U.S. Geological Survey USGS requested that the National Research Council's NRC's Committee on Implementation of a Sustained Land Imaging Program review the needs and opportunities necessary for the development of a national space based operational land imaging capability The committee was specifically tasked with several objectives including identifying stakeholders and their data needs and providing recommendations to facilitate the transition from NASA's research based series of satellites to a sustained USGS land imaging program *Landsat and Beyond* Sustaining and Enhancing the Nation's Land Imaging Program is the result of the committee's investigation This investigation included meetings with stakeholders such as the DOI NASA NOAA and commercial data providers The report

includes the committee's recommendations information about different aspects of the program and a section dedicated to future opportunities

The Trans-Neptunian Solar System Dina Prialnik, Maria Antoinetta Barucci, Leslie Young, 2019-11-28

The Trans Neptunian Solar System is a timely reference highlighting the state of the art in current knowledge on the outer solar system. It not only explores the individual objects being discovered there but also their relationships with other Solar System objects and their roles in the formation and evolution of the Solar System and other planets. Integrating important findings from recent missions such as New Horizons and Rosetta, the book covers the physical properties of the bodies in the Trans Neptunian Region including Pluto and other large members of the Kuiper Belt as well as dynamical indicators for Planet 9 and related objects and future prospects. Offering a complete look at exploration and findings in the Kuiper Belt and the rest of the outer solar system beyond Neptune, this book is an important resource to bring planetary scientists, space scientists, and astrophysicists up to date on the latest research and current understandings. Provides the most up to date information on the exploration of the Trans Neptunian Solar System and what it means for the future of outer solar system research. Contains clear sections that provide comprehensive coverage on the most important facets of the outer Solar System. Includes four color images and data from important missions including New Horizons and Rosetta. Concludes with suggestions and insights on the future of research on Trans Neptunian objects.

Technical Evaluation of the NASA Model for Cancer Risk to Astronauts Due to Space Radiation National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee for Evaluation of Space Radiation Cancer Risk Model, 2012-03-19

NASA's current missions to the International Space Station (ISS) and potential future exploration missions involving extended stays by astronauts on the lunar surface as well as the possibility of near Earth object (NEO) or Mars missions present challenges in protecting astronauts from radiation risks. These risks arise from a number of sources including solar particle events (SPEs), galactic cosmic rays (GCRs), secondary radiation from surface impacts, and even the nuclear isotope power sources transported with the astronauts. The serious early and late radiation health effects potentially posed by these exposures are equally varied, ranging from early signs of radiation sickness to cancer induction. Other possible effects include central nervous system damage, cataracts, cardiovascular damage, heritable effects, impaired wound healing, and infertility. Recent research, much of which has been sponsored by NASA, has focused on understanding and quantifying the radiation health risks posed by space radiation environments. Although many aspects of the space radiation environments are now relatively well characterized, important uncertainties still exist regarding biological effects, and thus regarding the level and types of risks faced by astronauts. This report presents an evaluation of NASA's proposed space radiation cancer risk assessment model, which is described in the 2011 NASA report *Space Radiation Cancer Risk Projections and Uncertainties 2010*. The evaluation in *Technical Evaluation of the NASA Model for Cancer Risk to Astronauts Due to Space Radiation* considers the model components, input data for the radiation types, estimated doses, and epidemiology, and the associated uncertainties. This report

also identifies gaps in NASA's current research strategy for reducing the uncertainties in cancer induction risks

Earth Science and Applications from Space National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Assessment of NASA's Earth Science Program, 2012-09-03 Understanding the effects of natural and human induced changes on the global environment and their implications requires a foundation of integrated observations of land sea air and space on which to build credible information products forecast models and other tools for making informed decisions The 2007 National Research Council report on decadal survey called for a renewal of the national commitment to a program of Earth observations in which attention to securing practical benefits for humankind plays an equal role with the quest to acquire new knowledge about the Earth system NASA responded favorably and aggressively to this survey embracing its overall recommendations for Earth observations missions technology investments and priorities for the underlying science As a result the science and applications communities have made significant progress over the past 5 years However the Committee on Assessment of NASA's Earth Science Program found that the survey vision is being realized at a far slower pace than was recommended principally because the required budget was not achieved Exacerbating the budget shortfalls NASA Earth science programs experienced launch failures and delays and the cost of implementing missions increased substantially as a result of changes in mission scope increases in launch vehicle costs and or the lack of availability of a medium class launch vehicle under estimation of costs by the decadal survey and unfunded programmatic changes that were required by Congress and the Office of Management and Budget In addition the National Oceanic and Atmospheric Administration NOAA has made significant reductions in scope to its future Earth environmental observing satellites as it contends with budget shortfalls Earth Science and Applications from Space A Midterm Assessment of NASA's Implementation of the Decadal Survey recommends a number of steps to better manage existing programs and to implement future programs that will be recommended by the next decadal survey The report also highlights the urgent need for the Executive Branch to develop and implement an overarching multiagency national strategy for Earth observations from space a key recommendation of the 2007 decadal survey that remains unfulfilled

Historic Documents of 2015 Heather Kerrigan, 2016-06-24 For more than 40 years the Historic Documents series has made primary source research easy by presenting excerpts from documents on the important events of each year for the United States and the World Each volume includes 60 to 70 events with well over 100 documents from the previous year from official reports and surveys to speeches from leaders and opinion makers to court cases legislation testimony and much more Historic Documents is renowned for the well written and informative background history and context it provides for each document Each volume begins with an insightful essay that sets the year's events in context and each document or group of documents is preceded by a comprehensive introduction that provides background information on the event Full source citations are provided Readers have easy access to material through a detailed thematic table of contents and each event includes references to related

coverage and documents from the last ten editions of the series *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, 2008-08-21 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 *Continuity of NASA Earth Observations from Space* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on a Framework for Analyzing the Needs for Continuity of NASA-Sustained Remote Sensing Observations of the Earth from Space, 2015-11-24 NASA's Earth Science Division ESD conducts a wide range of satellite and suborbital missions to observe Earth's land surface and interior biosphere atmosphere cryosphere and oceans as part of a program to improve understanding of Earth as an integrated system Earth observations provide the foundation for critical scientific advances and environmental data products derived from these observations are used in resource management and for an extraordinary range of societal applications including weather forecasts climate projections sea level change water management disease early warning agricultural production and the response to natural disasters As the complexity of societal infrastructure and its vulnerability to environmental disruption increases the demands for deeper scientific insights and more actionable information continue to rise To serve these demands NASA's ESD is challenged with optimizing the partitioning of its finite resources among measurements intended for exploring new science frontiers carefully characterizing long term changes in the Earth system and supporting ongoing societal applications This challenge is most acute in the decisions the Division makes between supporting measurement continuity of data streams that are critical components of Earth science research programs and the development of new measurement capabilities This report seeks to establish a more quantitative understanding of the need for measurement continuity and the consequences of measurement gaps *Continuity of NASA's Earth's Observations* presents a framework to assist NASA's ESD in their determinations of when a measurement or dataset should be collected for durations longer than the typical lifetimes of single satellite missions

Planetary Exploration Horizon 2061 Michel Blanc, 2022-10-28 *Planetary Exploration Horizon 2061* A Long Term Perspective for Planetary Exploration synthesizes all the material elaborated and discussed during three workshops devoted

to the Horizon 2061 foresight exercise Sections cover the science of planetary systems space missions to solar system objects technologies for exploration and infrastructures and services to support the missions and to maximize their science return The editors follow the path of the implementation of a planetary mission from the needed support in terms of navigation and communication through the handling of samples returned to Earth to the development of more permanent infrastructures for scientific human outposts on the Moon and Mars This book also includes a special chapter entirely devoted to contributions from students and early career scientists the Horizon 2061 generation and a final chapter on important avenues for the actual implementation of the planetary missions coming out of our Dreams for Horizon 2061 International cooperation and the growing role and initiatives of private enterprise in planetary exploration Provides a logical link between scientific questions and the technologies needed to thoroughly address them Organized chapters present a logical road map of subjects while also stimulating a cross disciplinary understanding of the scientific and technical challenges of planetary exploration Contains illustrations and tables that capture and synthesize knowledge of a broad readership

Hearings
United States. Congress. Joint Committee ...,1956 Hearings and Reports on Atomic Energy United States. Congress. Joint Committee on Atomic Energy,1956 **Shortage of Scientific and Engineering Manpower** United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Research and Development,1956

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