

Position of  
star as seen by  
New Horizons

Position of  
star as seen  
from Earth



Earth view



New Horizons view

# New Horizons In Astronomy

**Wolfgang Guggemos**



## **New Horizons In Astronomy:**

**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

**New Horizons in Astronomy** ,1956

***New Horizons in Astronomy*** ,1979

**Panel Reports**~"**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, Program Prioritization Panels, Science Frontiers Panels, 2011-05-18 Every 10 years the National Research Council releases a survey of astronomy and astrophysics outlining priorities for the coming decade The most recent survey titled **New Worlds New Horizons in Astronomy and Astrophysics** provides overall priorities and recommendations for the field as a whole based on a broad and comprehensive examination of scientific opportunities infrastructure and organization in a national and international context **Panel Reports New Worlds New Horizons in Astronomy and Astrophysics** is a collection of reports each of which addresses a key sub area of the field prepared by specialists in that subarea and each of which played an important role in setting overall priorities for the field The collection published in a single volume includes the reports of the following

panels Cosmology and Fundamental Physics Galaxies Across Cosmic Time The Galactic Neighborhood Stars and Stellar Evolution Planetary Systems and Star Formation Electromagnetic Observations from Space Optical and Infrared Astronomy from the Ground Particle Astrophysics and Gravitation Radio Millimeter and Submillimeter Astronomy from the Ground The Committee for a Decadal Survey of Astronomy and Astrophysics synthesized these reports in the preparation of its prioritized recommendations for the field as a whole These reports provide additional depth and detail in each of their respective areas Taken together they form an essential companion volume to *New Worlds New Horizons A Decadal Survey of Astronomy and Astrophysics* The book of panel reports will be useful to managers of programs of research in the field of astronomy and astrophysics the Congressional committees with jurisdiction over the agencies supporting this research the scientific community and the public

**New Worlds, New Horizons** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on the Review of Progress Toward the Decadal Survey Vision in *New Worlds, New Horizons in Astronomy and Astrophysics*, 2016-11-24

*New Worlds New Horizons in Astronomy and Astrophysics* NWNH the report of the 2010 decadal survey of astronomy and astrophysics put forward a vision for a decade of transformative exploration at the frontiers of astrophysics This vision included mapping the first stars and galaxies as they emerge from the collapse of dark matter and cold clumps of hydrogen finding new worlds in a startlingly diverse population of extrasolar planets and exploiting the vastness and extreme conditions of the universe to reveal new information about the fundamental laws of nature NWNH outlined a compelling program for understanding the cosmic order and for opening new fields of inquiry through the discovery areas of gravitational waves time domain astronomy and habitable planets Many of these discoveries are likely to be enabled by cyber discovery and the power of mathematics physics and imagination To help realize this vision NWNH recommended a suite of innovative and powerful facilities along with balanced strong support for the scientific community engaged in theory data analysis technology development and measurements with existing and new instrumentation Already in the first half of the decade scientists and teams of scientists working with these cutting edge instruments and with new capabilities in data collection and analysis have made spectacular discoveries that advance the NWNH vision

*New Worlds New Horizons A Midterm Assessment* reviews the responses of NASA's Astrophysics program NSF's Astronomy program and DOE's Cosmic Frontiers program to NWNH This report describes the most significant scientific discoveries technical advances and relevant programmatic changes in astronomy and astrophysics over the years since the publication of the decadal survey and assesses how well the Agencies programs address the strategies goals and priorities outlined in the 2010 decadal survey

**New Worlds, New Horizons in Astronomy and Astrophysics** National Research Council (U.S.). Committee for a Decadal Survey of Astronomy and Astrophysics, 2010 Panel Reports, 2010 *New Worlds, New Horizons in Astronomy and Astrophysics* National Research Council (U.S.). Astronomy and Astrophysics Survey

Committee,2010      *Extragalactic Astronomy* Kenneth Charles Jacobs,1976      **Report of the Panel on Implementing Recommendations from the New Worlds, New Horizons Decadal Survey** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Board on Physics and Astronomy,Panel on Implementing Recommendations from New Worlds, New Horizons Decadal Survey,2012-01-01 The 2010 Astronomy and Astrophysics Decadal Survey report New Worlds New Horizons in Astronomy and Astrophysics NWNH outlines a scientifically exciting and programmatically integrated plan for both ground and space based astronomy and astrophysics in the 2012 2021 decade However late in the survey process the budgetary outlook shifted downward considerably from the guidance that NASA had provided to the decadal survey And since August 2010 when NWNH was released the projections of funds available for new NASA Astrophysics initiatives has decreased even further because of the recently reported delay in the launch of the James Webb Space Telescope JWST to no earlier than the fourth quarter of 2015 and the associated additional costs of at least 1 4 billion These developments jeopardize the implementation of the carefully designed program of activities proposed in NWNH In response to these circumstances NASA has proposed that the United States consider a commitment to the European Space Agency ESA Euclid mission at a level of approximately 20 percent This participation would be undertaken in addition to initiating the planning for the survey s highest ranked space based large scale mission the Wide Field Infrared Survey Telescope WFIRST The Office of Science and Technology Policy OSTP requested that the National Research Council NRC convene a panel to consider whether NASA s Euclid proposal is consistent with achieving the priorities goals and recommendations and with pursuing the science strategy articulated in NWNH The panel also investigated what impact such participation might have on the prospects for the timely realization of the WFIRST mission and other activities recommended by NWNH in view of the projected budgetary situation The panel convened a workshop on November 7 2010 The workshop presentations identified several tradeoffs among options funding goals less likely versus more likely to be achieved in a time of restricted budgets narrower versus broader scientific goals and U S only versus U S ESA collaboration The panel captured these tradeoffs in considering four primary options Option A Launch of WFIRST in the Decade 2012 2021 Option B A Joint WFIRST Euclid Mission Option C Commitment by NASA of 20 percent Investment in Euclid prior to the M class decision or Option D No U S Financing of an Infrared Survey Mission This Decade      **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

**Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes

*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

**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 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 a Plan for U.S.**

**Participation in Euclid** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on the Assessment of a Plan for U.S. Participation in Euclid, 2012-03-17 NASA proposed to make a hardware contribution to the European Space Agency's ESA's Euclid mission in exchange for U S membership on the Euclid Science Team and science data access The Euclid mission will employ a space telescope that will make potentially important contributions to probing dark energy and to the measurement of cosmological parameters Euclid will image a large fraction of the extragalactic sky at unprecedented resolution and measure spectra for millions of galaxies Assessment of a Plan for U S Participation in Euclid evaluates whether a small investment in Euclid around 20 million in hardware is a viable part of an overall strategy to pursue the science goals set forth in New Worlds New Horizons in

Astronomy and Astrophysics a decadal plan for ground and space based astronomy and astrophysics The top ranked large scale space based priority of the New Worlds New Horizons is the Wide Field Infrared Survey Telescope WFIRST WFIRST has a broad wide field near infrared capability that will serve a wide variety of science programs of U S astronomers including exoplanet research near infrared sky surveys a guest observer program and dark energy research In carrying out this study the authoring committee s intent has been to be clear that this report does not alter New Worlds New Horizon s plans for the implementation of the survey s priorities Assessment of a Plan for U S Participation in Euclid concludes that the NASA proposal would represent a valuable first step toward meeting one of the science goals furthering dark energy research of WFIRST While WFIRST dark energy measurements are expected to be superior to Euclid s U S participation in Euclid will have clear scientific technical and programmatic benefits to the U S community as WFIRST and Euclid go forward According to this report the current NASA proposal to invest modestly in Euclid is consistent with an expeditious development of WFIRST and the achievement of the broader and more ambitious goals outlined in New Worlds New Horizons Knowledge gained from the Euclid project could help optimize the science return of the WFIRST mission as well Such an investment will further the goals of New Worlds New Horizons be helpful to the preparations for WFIRST and enhance WFIRST s chances of success

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

**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, 2012-04-19 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 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 **The Astronomy Revolution** Donald G. York,Owen Gingerich,Shuang-Nan Zhang,2016-04-19 Some 400 years after the first known patent application for a telescope by Hans Lipperhey The Astronomy Revolution 400 Years of Exploring the Cosmos surveys the effects of this instrument and explores the questions that have arisen out of scientific research in astronomy and cosmology Inspired by the international New Vision 400 conference held

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