

NAVAL STUDIES BOARD

40TH ANNIVERSARY

[1974 – 2014]



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Naval Studies Board

**National Research Council, Division on
Engineering and Physical
Sciences, Naval Studies
Board, Committee on Distributed
Remote Sensing for Naval Undersea
Warfare**

Naval Studies Board :

Naval Studies Board 40th Anniversary National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, 2014-12-22 Forty years ago the Naval Studies Board was created at the request of then Chief of Naval Operations Admiral Elmo R Zumwalt Jr. As stated in his request to the National Academy of Sciences he thought it important for the Navy to have an outside resource to which it could turn for independent and outside counsel on any area of its responsibilities involving the interplay of scientific and technical matters with other national issues. Admiral Zumwalt together with Under Secretary of the Navy Honorable David S. Potter and President of the National Academy of Sciences Dr. Philip Handler recognized the importance of not only continuing but also focusing and strengthening the relationship that had existed between the National Academy of Sciences and the Department of the Navy since the Academy's creation in 1863. To commemorate this special anniversary Naval Studies Board 40th Anniversary provides an overview of the history, mission, and accomplishments of the Board. In the coming years the Naval Studies Board will continue to serve as a source of independent long range scientific and technical planning advice for the nation's naval forces. It will also work to ensure that the relationships between the operational science, engineering, and technical communities remain as strong and productive as ever to ensure that progress continues in areas most critical to meeting future naval forces needs.

An Assessment of Undersea Weapons Science and Technology National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, Committee for Undersea Weapons Science and Technology, 2000-07-09 The Department of the Navy strives to maintain through its Office of Naval Research (ONR) a vigorous science and technology S T program in those areas considered critically important to U S naval superiority in the maritime environment including littoral waters and shore regions. In pursuing its S T investments in such areas ONR must ensure that 1 a robust U S research capability to work on long term S T problems in areas of interest to the Department of the Navy and the Department of Defense is sustained 2 an adequate supply of new scientists and engineers in these areas is maintained and 3 S T products and processes necessary to ensure future superiority in naval warfare are provided. One of the critical areas for the Department of the Navy is undersea weapons. An Assessment of Undersea Weapons Science and Technology assesses the health of the existing Navy program in undersea weapons, evaluates the Navy's research effort to develop the capabilities needed for future undersea weapons, identifies non Navy sponsored research and development efforts that might facilitate the development of such advanced weapons capabilities, and makes recommendations to focus the Navy's research program so that it can meet future needs.

The Role of Experimentation in Building Future Naval Forces National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for the Role of Experimentation in Building Future Naval Forces, 2004-12-08 The Department of Defense is in the process of transforming the nation's armed forces to meet the military challenges of the 21st century. Currently the opportunity exists to carry out experiments at individual and joint

service levels to facilitate this transformation Experimentation which involves a spectrum of activities including analyses war games modeling and simulation small focused experiments and large field events among other things provides the means to enhance naval and joint force development To assist the Navy in this effort the Chief of Naval Operations CNO asked the National Research Council NRC to conduct a study to examine the role of experimentation in building future naval forces to operate in the joint environment The NRC formed the Committee for the Role of Experimentation in Building Future Naval Forces to perform the study

Capability Surprise for U.S. Naval Forces Committee on Capability Surprise for U.S. Naval Forces, Naval Studies Board, Division on Engineering and Physical Sciences, National Research Council, 2013-12-31 A letter dated December 21 2011 to National Academy of Sciences President Dr Ralph Cicerone from the Chief of Naval Operations ADM Jonathan W Greenert U S Navy requested that the National Research Council's NRC's Naval Studies Board NSB conduct a study to examine the issues surrounding capability surprise both operationally and technically related facing the U S naval services Accordingly in February 2012 the NRC under the auspices of its NSB established the Committee on Capability Surprise for U S Naval Forces The study's terms of reference provided in Enclosure A of this interim report were formulated by the Office of the Chief of Naval Operations CNO in consultation with the NSB chair and director The terms of reference charge the committee to produce two reports over a 15 month period The present report is the first of these an interim report issued as requested following the third full committee meeting The terms of reference direct that the committee in its two reports do the following 1 Select a few potential capability surprises across the continuum from disruptive technologies to intelligence inferred capability developments through operational deployments and assess what U S Naval Forces are doing and could do about these surprises while mindful of future budgetary declines 2 Review and assess the adequacy of current U S Naval Forces policies strategies and operational and technical approaches for addressing these and other surprises and 3 Recommend any changes including budgetary and organizational changes as well as identify any barriers and or leadership issues that must be addressed for responding to or anticipating such surprises including developing some of our own surprises to mitigate against unanticipated surprises Capability Surprise for U S Naval Forces Initial Observations and Insights Interim Report highlights issues brought to the committee's attention during its first three meetings and provides initial observations and insights in response to each of the three tasks above It is very much an interim report that neither addresses in its entirety any one element of the terms of reference nor reaches final conclusions on any aspect of capability surprise for naval forces The committee will continue its study during the coming months and expects to complete by early summer 2013 its final report which will address all of the elements in the study's terms of reference and explore many potential issues of capability surprise for U S naval forces not covered in this interim report

U.S. Naval Forces' Capabilities for Responding to Small Vessel Threats National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on U.S. Naval Forces' Capabilities for Responding to

Small Vessel Threats,2014-02-12 At the request of the former Chief of Naval Operations the National Research Council appointed an expert committee to examine U S Naval Forces capabilities for responding to the potential exploitation of small vessels by adversaries The Department of the Navy determined that the report prepared by the committee is classified in its entirety under Executive Order 13526 and therefore cannot be made available to the public This abbreviated report provides background information on the full report and the committee that prepared it *Naval Studies Board 40th Anniversary*,2014 Naval Forces' Capability for Theater Missile Defense National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee for Naval Forces' Capability for Theater Missile Defense,2001-05-01 At the request of the Chief of Naval Operations the National Research Council under the auspices of the Naval Studies Board established a committee to assess the Department of the Navy s current and future naval theater missile defense TMD capabilities The Committee for Naval Forces Capability for Theater Missile Defense first convened in April 2000 and met approximately 2 days a month for 8 months This report is based on the information presented to the committee during that period and on the committee members accumulated experience and expertise in military operations systems and technologies **Distributed Remote Sensing for Naval Undersea Warfare** National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee on Distributed Remote Sensing for Naval Undersea Warfare,2007-07-12 The widespread availability of quiet diesel electric submarines and inexpensive mines is posing a growing threat to global access by the U S Navy In response the Navy has expanded its undersea warfare efforts and put particular emphasis on the potential for new distributed remote sensing DRS approaches To assist with this effort the former Chief of Naval Operations requested the NRC to conduct an assessment of DRS for naval undersea warfare This report provides a clear near term path by which useful DRS systems can be applied rapidly to pressing naval USW problems and by which ongoing science and technology efforts can be directed toward the most useful options The report contains information as described in 5 U S C 552 b and therefore could not be released to the public in its entirety The public version consists of the front matter and executive summary **The Role of Naval Forces in the Global War on Terror** National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee on the Role of Naval Forces in the Global War on Terror,2007-07-12 The growth of the terrorism threat to the nation s security has created significant strategic challenges for U S armed forces in fighting this global war on terrorism GWOT For the Navy the challenges have centered on developing maritime capabilities to prosecute the GWOT as far forward as possible To assist the Navy s planning in this area the former Chief of Naval Operations requested the NRC to conduct an assessment of the adequacy of and prospects for improving the role of Naval Forces in the GWOT The study developed a defense in depth framework as the organizing principle for the report The report contains information as described in 5 U S C 552 b and therefore could not be released to the public in its entirety The public version consists of an executive summary that presents an assessment of the

transformation of naval forces for addressing the GWOT a brief description of the defense in depth framework and a list of findings and major recommendations

Naval Analytical Capabilities National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on Naval Analytical Capabilities and Improving Capabilities-Based Planning, 2005-09-26 Naval Analytical Capabilities assesses current Department of Defense initiatives and the Department of the Navy's progress in transitioning from a requirements based to a capabilities based organization The report also provides recommendations aimed at improving the organizational structure of the Office of the Chief of Naval Operations to best position the Chief of Naval Operations to fulfill his Title 10 U S Code on Armed Forces responsibilities This report addresses key elements of capabilities based planning examines Navy analytical processes and recommends an approach to making improvements

2000 Assessment of the Office of Naval Research's Marine Corps Science and Technology Program

National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, Committee for the Review of ONR's Marine Corps Science and Technology Program, 2000-11-14 This review of the Science and Technology S T program of the Office of Naval Research's ONR's Expeditionary Warfare Operations Technology Division Code 353 comes at a time of considerable change in the Marine Corps and in ONR which are currently in the midst of significant transitions The Marine Corps is making plans to equip and train for engaging in a new style of warfare known as Operational Maneuver From the Sea OMFTS and for performing a wide variety of missions in urban settings ranging from humanitarian assistance to combat and mixes of these suggested by the term three block war During 1999 ONR assumed management of that portion of the Marine Corps S T program that had not been assigned several years earlier to the Marine Corps Warfighting Laboratory MCWL In 2002 control of most of ONR's advanced development funding 6 3 and of much of its exploratory development funding 6 2 will move from ONR's line divisions of which Code 353 is one of many to 12 new program offices each dedicated to demonstrating technologies for future naval capabilities FNCs Given these changes it is not surprising that some of the projects inherited recently by ONR and assessed by the Committee for the Review of ONR's Marine Corps Science and Technology Program under the auspices of the Naval Studies Board of the National Research Council differed from the customary ONR project and were more akin to preacquisition or acquisition support than to S T It is also not surprising that Code 353 could not articulate its plans for future investments clearly and concisely given the current uncertainty about the content of and funding level for FNCs The Marine Corps S T program supports the five imperatives for technology advancement that the Marine Corps Combat Development Command MCCDC has identified as prerequisites for the transition to OMFTS maneuver firepower logistics training and education and command and control The committee supports investment in these areas and in the report's discussions and recommendations follows the five imperatives

Technology for the United States Navy and Marine Corps., 2000-2035 David Heebner, 1998-06 This study was inspired by the vast transformation over the past decade in the international strategic landscape facing the U S

and in the missions and perspectives of the U S Navy and Marine Corps N mine and submarine warfare N and issues in caring for and maximizing effectiveness of N MC human resources

2003 Assessment of the Office of Naval Research's Marine Corps Science and Technology Program National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for the Review of ONR's Marine Corps Science and Technology Program, 2004-03-01 The Office of Naval Research ONR funds research across a broad range of scientific and engineering disciplines in support of the Navy and Marine Corps To ensure that its investments are serving those ends and are of high quality ONR requires each of its departments to undergo annual review Since 1999 the Naval Expeditionary Warfare Department of ONR has requested that the NRC conduct these reviews This report presents the results of the second review of the Marine Corps Science and Technology program The first review was conducted in 2000 The 2003 assessment examines the overall Marine Corps S T program the littoral combat future naval capability the core thrusts of the program and basic research activities

Identification of Promising Naval Aviation Science and Technology Opportunities National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on Identification of Promising Naval Aviation Science and Technology Opportunities, 2006-04-09 The Department of Defense is developing the means to transform the nation s armed forces to meet future military challenges For the Navy and Marine Corps this vision is encompassed in Naval Power 21 Many new war fighting concepts will be needed to implement this vision and the ONR has requested the NRC to identify new science and technology opportunities for new naval aviation capabilities to support those concepts This report presents an assessment of what they imply for naval aviation an analysis of some capabilities that if developed would make a significant contribution to realizing those concepts and an identification of key technologies in which ONR could invest to achieve those capabilities In particular the report focuses on seven key capabilities multispectral defense unmanned air operations hypersonic weapons delivery fast kill weapons heavy lift air transport intelligent combat information management and omniscient intelligence

Navy's Needs in Space for Providing Future Capabilities National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on the Navy's Needs in Space for Providing Future Capabilities, 2005-07-18 The United States must operate successfully in space to help assure its security and economic well being The Department of the Navy is a major user of space capabilities although those capabilities are now primarily provided by DOD the Air Force and NOAA Following a DOD assessment of national space security management in 2001 the Navy commissioned a Panel to Review Space to assess Navy space policy and strategy As an extension of that review the NRC was requested by the Navy to examine its needs in space for providing future operational and technical capabilities This report presents a discussion of the strategic framework of future space needs the roles and responsibilities for meeting those needs an assessment of Navy support to space mission areas and a proposed vision for fulfilling Naval forces space needs

An Assessment of Undersea Weapons Science and Technology

Committee for Undersea Weapons Science and Technology, Naval Studies Board, Commission on Physical Sciences, Mathematics, and Applications, Division on Engineering and Physical Sciences, National Research Council, 2000-06-23 The Department of the Navy strives to maintain through its Office of Naval Research ONR a vigorous science and technology S T program in those areas considered critically important to U S naval superiority in the maritime environment including littoral waters and shore regions In pursuing its S T investments in such areas ONR must ensure that 1 a robust U S research capability to work on long term S T problems in areas of interest to the Department of the Navy and the Department of Defense is sustained 2 an adequate supply of new scientists and engineers in these areas is maintained and 3 S T products and processes necessary to ensure future superiority in naval warfare are provided One of the critical areas for the Department of the Navy is undersea weapons An Assessment of Undersea Weapons Science and Technology assesses the health of the existing Navy program in undersea weapons evaluates the Navy s research effort to develop the capabilities needed for future undersea weapons identifies non Navy sponsored research and development efforts that might facilitate the development of such advanced weapons capabilities and makes recommendations to focus the Navy s research program so that it can meet future needs *Technology for the United States Navy and Marine Corps, 2000-2035: Becoming a 21st-Century Force* National Research Council, Committee on Technology for Future Naval Forces, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, 1997-08-30 After v 1 each volume s t p names a different panel at the beginning of its author statement **Naval Mine Warfare** National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for Mine Warfare Assessment, 2001-09-19 Sea mines have been important in naval warfare throughout history and continue to be so today They have caused major damage to naval forces slowed or stopped naval actions and commercial shipping and forced the alteration of strategic and tactical plans The threat posed by sea mines continues and is increasing in today s world of inexpensive advanced electronics nanotechnology and multiple potential enemies some of which are difficult to identify This report assesses the Department of the Navy s capabilities for conducting naval mining and countermining sea operations **An Assessment of Naval Hydromechanics Science and Technology** National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, Committee for Naval Hydromechanics Science and Technology, 2000-05-17 The Department of the Navy maintains a vigorous science and technology S T research program in those areas that are critically important to ensuring U S naval superiority in the maritime environment A number of these areas depend largely on sustained Navy Department investments for their health strength and growth One such area is naval hydromechanics that is the study of the hydrodynamic and hydroacoustic performance of Navy ships submarines underwater vehicles and weapons A fundamental understanding of naval hydromechanics provides direct benefits to naval warfighting capabilities through improvements in the speed maneuverability and stealth of naval platforms and weapons An Assessment of Naval Hydromechanics Science and

Technology is an assessment of S T research in the area of naval hydromechanics This report assesses the Navy s research effort in the area of hydromechanics identifies non Navy sponsored research and development efforts that might facilitate progress in the area and provides recommendations on how the scope of the Navy s research program should be focused to meet future objectives

Oceanography and Mine Warfare National Research Council, Commission on Geosciences, Environment, and Resources, Ocean Studies Board, 2000-03-07

Environmental information is important for successful planning and execution of naval operations A thorough understanding of environmental variability greatly increases the likelihood of mission success To ensure that naval forces have the most up to date capabilities the Office of Naval Research ONR has an extensive environmental research program This research to be of greatest use to the warfighter needs to be directed towards assisting and solving battlefield problems To increase research community understanding of the operational demands placed on naval operators and to facilitate discussion between these two groups the National Research Council s NRC Ocean Studies Board OSB working with ONR and the Office of the Oceanographer of the Navy convened five previous symposia on tactical oceanography

Oceanography and Mine Warfare examines the following issues

- 1 how environmental data are used in current mine warfare doctrine
- 2 current procedures for in situ collection of data
- 3 the present capabilities of the Navy s oceanographic community to provide supporting information for mine warfare operations and
- 4 the ability of oceanographic research and technology developments to enhance current mine warfare capabilities

This report primarily concentrates on the importance of oceanographic data for mine countermeasures

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