

NAVAL STUDIES BOARD

40TH ANNIVERSARY

[1974 – 2014]



CONTENTS

CURRENT ROSTER	2
REMARKS	4
MISSION	6
HISTORY	7
CHAIRS	8
DIRECTORS	11
RECENT REPORTS	12
CURRENT PROJECTS	14
COMMENTARIES	15
40 YEARS OF CONTRIBUTIONS	16
NAVAL LEADERSHIP	21
FORMER MEMBERS	22

Naval Studies Board

**National Research Council, Division on
Engineering and Physical
Sciences, Naval Studies
Board, Committee for the Role of
Experimentation in Building Future
Naval Forces**

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

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

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, 2001-06-01 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

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

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 **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 *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

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

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

2002 Assessment of the Office of Naval Research's Air and Surface Weapons Technology Program National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee for the Review of ONR's Air and Surface Weapons Technology Program,2003-01-31 The Office of Naval Research ONR contracted with the Naval Studies Board NSB of the National Research Council NRC to establish a committee to review ONR s Air and Surface Weapons Technology ASWT program The committee convened on May 14 and 15 2002 and reviewed more than 20 science and technology S T efforts that were presented as constituting the ASWT program The committee then met separately on May 16 2002 to formulate its findings and recommendations This report represents the consensus views of the committee and is based on the information presented prior to and at the review as well as on the committee members accumulated experience and expertise in military operations systems and technologies

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 Responding to Capability Surprise National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee on Capability Surprise on U.S. Naval Forces,2013-12-31 From a military operational standpoint surprise is an event or capability that could affect the outcome of a mission or campaign for which preparations are not in place By definition it is not possible to truly anticipate surprise It is only possible to prevent it in the sense of minimizing the number of possible surprises by appropriate planning to create systems that are resilient to an adversary s unexpected actions or to rapidly and effectively respond when surprised Responding to Capability Surprise examines the issues surrounding capability surprise both operational and technical facing the U S Navy Marine Corps and Coast Guard This report selects a few surprises from across a continuum of surprises from disruptive technologies to intelligence inferred capability developments to operational deployments and assesses what the Naval Forces are doing and could do about them while being mindful of future budgetary declines The report then examines which processes are in place or could be in place in the Navy the Marine Corps and the Coast Guard to address such surprises Today s U S naval forces continue to face a wide range of potential threats in the indefinite future and for this reason must continue to balance and meet their force structure needs The recommendations of Responding to Capability Surprise will help to ensure more responsive more resilient and more adaptive behavior across the organization from the most senior leadership to the individual sailors Marines and Coast Guardsmen

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 **C4ISR for Future Naval Strike Groups** National Research

Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on C4ISR for Future Naval Strike Groups, 2006-04-26 The Navy has put forth a new construct for its strike forces that enables more effective forward deterrence and rapid response A key aspect of this construct is the need for flexible adaptive command control communications computers intelligence surveillance and reconnaissance C4ISR systems To assist development of this capability the Navy asked the NRC to examine C4ISR for carrier expeditionary and strike and missile defense strike groups and for expeditionary strike forces This report provides an assessment of C4ISR capabilities for each type of strike group recommendations for C4ISR architecture for use in major combat operations promising technology trends and an examination of organizational improvements that can enable the recommended architecture **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

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 **A Review of U.S. Navy Cyber Defense Capabilities** National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for A Review of U.S. Navy Cyber Defense Capabilities, 2015-01-23 In order to conduct operations successfully and defend its capabilities against all warfighting domains many have warned the Department of Defense DoD of the severity of the cyber threat and called for greater attention to defending against potential cyber attacks For several years many within and outside DoD have called for even greater attention to addressing threats to cyberspace At the request of the Chief of Naval Operations the National Research Council appointed an expert committee to review the U S Navy s cyber defense capabilities The Department of the Navy has determined that the final report prepared by the committee is classified in its entirety under Executive Order 13526 and therefore cannot be made available to the public A Review of U S Navy Cyber Defense Capabilities is the abbreviated report and provides background information on the full report and the committee that prepared it *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 *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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Table of Contents Naval Studies Board

1. Understanding the eBook Naval Studies Board
 - The Rise of Digital Reading Naval Studies Board
 - Advantages of eBooks Over Traditional Books
2. Identifying Naval Studies Board
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Naval Studies Board
 - User-Friendly Interface
4. Exploring eBook Recommendations from Naval Studies Board
 - Personalized Recommendations
 - Naval Studies Board User Reviews and Ratings
 - Naval Studies Board and Bestseller Lists

5. Accessing Naval Studies Board Free and Paid eBooks
 - Naval Studies Board Public Domain eBooks
 - Naval Studies Board eBook Subscription Services
 - Naval Studies Board Budget-Friendly Options
6. Navigating Naval Studies Board eBook Formats
 - ePub, PDF, MOBI, and More
 - Naval Studies Board Compatibility with Devices
 - Naval Studies Board Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Naval Studies Board
 - Highlighting and Note-Taking Naval Studies Board
 - Interactive Elements Naval Studies Board
8. Staying Engaged with Naval Studies Board
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Naval Studies Board
9. Balancing eBooks and Physical Books Naval Studies Board
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Naval Studies Board
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Naval Studies Board
 - Setting Reading Goals Naval Studies Board
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Naval Studies Board
 - Fact-Checking eBook Content of Naval Studies Board
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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133 review questions 135 problems 137 chapter 5 wave propagation in material media 141 5 1 conductors and dielectrics
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