



Mine Warfare

**National Research Council, Division on
Engineering and Physical
Sciences, Naval Studies
Board, Committee for Mine Warfare
Assessment**

Mine Warfare:

Mine Warfare at Sea Howard S. Levie, 2023-12-11 *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 **Weapons that Wait** Gregory Kemenyi Hartmann, 1979 **21st Century Complete Guide to Naval Mine Warfare** Department of Defense, U. S. Navy, U. S. Government, 2017-06-02 Seven unique U S Navy documents provide a thorough guide to naval mine warfare with information on modern mine countermeasures MCM marine mammal systems the use of dolphins and sea lions organic MCM Avenger class SQQ 32 Sonar SLQ 37 SLQ 38 SLQ 48 V MH 53E Sea Dragon Helicopters explosive ordnance disposal littoral combat ship LCS methods of actuation USMC Shallow Water Mine Countermeasures and much more The History of the Sea Mine and its Continued Importance in Today's Navy David Bushnell has become known as the father of mine warfare As a student at Yale University he worked on the development of underwater explosives In his research he discovered that gunpowder could be exploded underwater During the American Revolution Bushnell was authorized to design a sea mine usually referred to as a torpedo by Bushnell to be used against the British fleet 21st Century U S Navy Mine Warfare Ensuring Global Access and Commerce In February 1991 the Navy lost command of the sea the North Arabian Gulf to more than a thousand mines that had been sown by Iraqi forces Mines severely damaged two Navy warships and commanders aborted an amphibious assault for fear of even more casualties Spurred on by this experience the Navy has taken consistent aggressive and focused action to ensure that it is prepared for all future mine events Solving the Mine Countermeasures Problem A Matter of Focus and Priority This document reviews mine countermeasure operations and how they impact on current national security and national military strategies as well as service doctrine Shallow Water Mine Countermeasure Capability for USMC Ground Reconnaissance Assets As the Marine Corps looks to the future with its concept of expeditionary maneuver warfare EMW shallow water mines remain a show stopper to the Corps forcible entry requirement With limited Naval assets available MAGTF commanders are still dependent on Marine ground reconnaissance assets for amphibious reconnaissance of potential beach landing sites to include the detection of shallow water mines The Operational Effects of Mine Warfare This paper demonstrates that naval mines are a threat to the operational commander and that there are actions he can take to reduce the operational effects of mine warfare The first section demonstrates that mine warfare is a pertinent problem for the operational commander by examining three principle relationships Sweeping Changes for Mine Warfare Controlling the

Mine Threat This report proposes that the U S Navy deter and if necessary combat potential minelayers by pursuing a proactive offensive mine warfare strategy Central to this proposed strategy is the development acquisition and use of Remote Controlled RECO mines It is argued that given the historical problems the United States has had in the area of naval mine warfare a strategy aimed at the aggressive deterrence of enemy mine laying be embraced so as to project forces ashore in future amphibious operations Inadequate Mine Countermeasure Systems and Capabilities for Future Amphibious Operations When a one thousand dollar mine can severely damage a one billion dollar ship it is time to do something about it Edney The significance of mines to naval operations has been recognized in modern warfare For example during the Korean War the Chief of Naval Operations Admiral Forrest P Sherman observed before an amphibious assault on Wonsan When you can't go where you want to when you want to you haven't got command of the sea And command of the sea is a rock bottom foundation for all our war plans We've been very submarine conscious and air conscious Now we're getting mine conscious

The Development of Mine Warfare Norman E. Youngblood, 2006-06-30 In 1997 the International Campaign to Ban Landmines ICBL coordinated the Convention on the Prohibition of the Use Stockpiling Production and Transfer of Anti Personnel Mines and on their Destruction As of mid 2005 145 states had signed the agreement The ICBL's efforts were in large part a response to the careless use of landmines in the previous fifty years The history of mine use in warfare however goes back much further than the World Wars of the 20th century and includes both land and sea use This first comprehensive study traces the technical tactical and ethical developments of mine warfare from ancient times to the present Beginning with mine warfare's roots in ancient Assyria and China Youngblood takes the reader through the centuries of debate about how these hidden weapons should be used A look at 19th century developments explores the intertwined development of land and sea mines and the inventors behind them including Robert Fulton Samuel Colt and Immanuel Nobel father of Alfred Nobel Subsequent chapters examine the use of mines in the American Civil War the Russo Japanese War both World Wars and the battlefields of the Cold War and chart key battles and technical innovations such as the development of air delivered munitions Finally the author addresses the ethical concerns raised by the careless mining namely the impact on civilians and the difficulties of de-mining and the treaties that regulate landmine use **Second Mine Warfare Panel [proceedings].**

United States. Army. Panel on the Tactical Mine Warfare, 1953* Navy Mine Warfare United States. General Accounting Office, 1998

Naval Mine Warfare National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for Mine Warfare Assessment, 2001-10-19 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 **The Impact Of Mine Warfare Upon US Naval Operations During The Civil War** LCDR Edwin D. Lindgren USN, 2015-11-06 This study investigates the impact of Confederate naval mine warfare against the operations of the U S Navy during the Civil War Mine warfare was a cost effective method for the Confederacy to defend its long coastline and inland waterways A wide variety of fixed moored and drifting mines were deployed and used with effect at locations along the Atlantic coast the Gulf coast and along rivers including those in the Mississippi basin Despite loss and damage to thirty five Union naval vessels mine use had virtually no strategic impact upon the course of the war At the operational level effects were apparent Federal naval operations at Charleston and on the Roanoke River were frustrated in large part because of the mine threat The impact of mines was great at the tactical level These cost effective weapons caused delays in Union operations resulted in involved countermine operations and caused fear and apprehension in crews The lessons from the mine warfare experience of the Civil War are still applicable in today s warfare environment Naval mines are a preferred weapon of minor naval powers and the U S Navy will be required to deal with this threat when operating along the World s coastal regions **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 *The Operational Effects of Mine Warfare* , 1999 This paper demonstrates that naval mines are a threat to the operational commander and that there are actions he can take to reduce the operational effects of mine warfare The first section demonstrates that mine warfare is a pertinent problem for the operational commander by examining three principle relationships It examines the history of mine warfare from an operational perspective warfare in the context of operational art and mine warfare in the context of the U S Navy and U S Marine Corps service visions The second part of the paper explores the Mine Countermeasures MCM concept of operations the difficulties countering the mine problem with

recommendations to minimize the operational effects and lastly the future of mine warfare in the context of Joint Vision 2010 and beyond This paper shows that the operational commander can minimize the operational effects of mine warfare by preventing mining maintaining surveillance minimizing maneuver space requirements requesting MCM forces early in crisis using creative schemes of maneuver and exploiting the miner s resource and environmental limitations **Mine Warfare, by Captain Cussenot, Tr. from the French** United States. American Expeditionary Forces,1917 *Proceedings of the Panel on the Tactical Aspects of Mine Warfare and Evaluation of the Research and Development Program* United States. Army. Panel on the Tactical Aspects of Mine Warfare and Evaluation of the Research and Development Program,1952*

Handbook of Employment Concepts for Mine Warfare Systems ,1986 **Navy Mine Warfare** United States. General Accounting Office,1996 *International Symposium on Mine Warfare Vessels and Systems* International Symposium on Mine Warfare Vessels and Systems,International Symposium on Mine Warfare Vessels and Systems. 1984, London,Royal Institution of Naval Architects,1984 **Most Dangerous Sea** Arnold S. Lott,1959 **Taking Mines Seriously** Scott C Truver,2015-02-16 This is a curated and comprehensive collection of the most important works covering matters related to national security diplomacy defense war strategy and tactics The collection spans centuries of thought and experience and includes the latest analysis of international threats both conventional and asymmetric It also includes riveting first person accounts of historic battles and wars Some of the books in this Series are reproductions of historical works preserved by some of the leading libraries in the world As with any reproduction of a historical artifact some of these books contain missing or blurred pages poor pictures errant marks etc We believe these books are essential to this collection and the study of war and have therefore brought them back into print despite these imperfections We hope you enjoy the unmatched breadth and depth of this collection from the historical to the just published works **Mine Warfare** U. S. Navy,United States Marine Corps,2005-01-01 Since the invention of the Bushnell Keg in 1776 mine warfare has been an important element of naval warfare The use of mines and countermeasures to mines has figured significantly in every major armed conflict and nearly every regional conflict in which the United States has been involved since the Revolutionary War Mine warfare has been increasingly important and effective since World War I Mines presently on the world arms markets are relatively inexpensive easy to procure reliable and effective and difficult for intelligence agencies to track The mine as a weapon system has an extremely favorable investment return cost of mine to cost of damage ratio for the miner Despite the logic and effectiveness of maintaining the mine element of war at sea on an even footing with the other naval warfighting specialties throughout its history the U S Navy has devoted proportionally fewer resources to mine warfare As a result despite the emergence of the U S Navy as the world s premier maritime power whose individual warfighting capabilities generally are superior to those of other navies its mine countermeasure capabilities have lagged behind The old adage that those who will not learn the lessons of history are doomed to repeat them has persistently applied to the mine warfare aspect

of the U S Navy North Arabian Gulf operations of the U S Navy in Desert Storm contain some bitter experiences including the mission aborting mine strikes to two major warships as well as the controversy over the decision not to land U S Marines in Kuwait Despite the unfortunate nature of the initial Desert Storm experience and the need to recapture expertise in MCM the U S Navy and Allied navies did have substantial success in countering the nearly 1 300 naval mines deployed by the Iraqis and emerged victorious in the MCM element of Desert Storm warfighting as in the other aspects of that war This positive conclusion to the mine clearance campaign in the North Arabian Gulf was because of the unparalleled material and logistics support from the Department of the Navy s shore establishment and the cooperation of many allied nations in the coalition effort In addition to national support and multinational cooperation the enabling elements of this success were the ability of the American Bluejacket to learn and adapt quickly combined with good tactical command in the fields Of special note is that as the course of the mine clearance campaign progressed the Naval Component Command leadership came to understand appreciate and support the complex warfighting nature of mine clearance operations

Mine Warfare in Australia's First Line of Defence Alan Hinge, Desmond Ball, Helen Wilson, 1992

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