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**THE UNITED STATES NAVAL WAR COLLEGE**

**COURSE IN NAVAL WARFARE**

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2958 dated 17 April 1995

#1

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**PUBLICATIONS BRANCH**  
**NAVAL WAR COLLEGE**



**DIRECTIVE**  
**FOR**  
**NAVAL PLANNING AND OPERATIONS STUDY**  
**PART III - UNDERSEA WARFARE STUDY**  
**19 - 26 January 1960**

**Issue: 12 January 1960**

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NAVAL PLANNING AND OPERATIONS STUDY

PART III

UNDERSEA WARFARE STUDY

6 Days: 19 - 26 January 1960

Purpose: To acquire an understanding of the Navy's capabilities and limitations in conducting undersea warfare and to gain proficiency in planning therefor.

Scope: A study of:

a. Capabilities and limitations of the Navy to conduct anti-submarine warfare under conditions of cold, limited and general war.

b. The coordinated employment and interdependence of weapons systems related to anti-submarine warfare.

c. The operating characteristics, command organization and concept of operations of U.S. submarines.

d. The capabilities, limitations and employment of mines and mine clearance forces.

Method:

- a. Reading
- b. Lectures
- c. Operational planning problem

Relationship with other curriculum items:

In this study familiarity is gained with the techniques, tools and planning required at higher echelons of command in the prosecution of undersea warfare. This is a required step in preparation for the Unified and Combined Command Planning Study, in which a broad knowledge of the Navy's capabilities and limitations is essential.

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- Requirements:
- a. Attend lectures
  - b. Study bibliography
  - c. Prepare Operation Plan and designated Annexes
  - d. Participate in group discussions

SUBMITTED:



H. G. MOORE  
Head, Naval Warfare Department

APPROVED:



E. E. COLESTOCK  
Chief of Staff

Annexes

- A - Schedule
- B - Student Requirements
- C - Bibliography
- D - Military and Political Situation
- E - Problem Message
- F - Force Tabulations
- G - Pertinent Information
- H - Committee Assignments
- I - Evaluation Report

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Annex A to Directive for Naval Planning and Operations Study,  
Part III

SCHEDULE

Friday, 15 January

1030 - Pringle Hall Auditorium

ORIENTATION FOR UNDERSEA WARFARE STUDY

Commander R.B. Poage, USN

1100 - Pringle Hall Auditorium

Lecture - "THE ASW PROBLEM"

Rear Admiral C.E. Weakley, USN

Tuesday, 19 January

1100 - Pringle Hall Auditorium

Lecture - "THE U.S. SUBMARINE FORCE"

Rear Admiral L.R. Daspit, USN

Thursday, 21 January

1100 - Pringle Hall Auditorium

Lecture - "DEFENSE OF THE ATLANTIC"

Vice Admiral W.G. Cooper, USN

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Anx A to Directive for NPOS, Pt. III  
SCHEDULE

Monday, 25 January

1100 - Pringle Hall Auditorium

Lecture - "MINE WARFARE"

Tuesday, 26 January

0900 - Pringle Hall Lecture Room

Lecture - "SUBMARINE OPERATIONS IN THE ARCTIC"

Commander James Calvert, USN

1100 - Pringle Hall Auditorium

Lecture - "RESEARCH AND THE FLEET OF THE FUTURE"

Rear Admiral R. Bennett, USN  
Chief of Naval Research

1430 DESIGNATED STUDENTS PRESENT SOLUTION TO  
REQUIREMENTS TO ASSIGNED COMMITTEE

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Annex B to Directive for Naval Planning and Operations Study,  
Part III

STUDENT REQUIREMENTS

1. Students will:

a. Prepare as Commander Anti-Submarine Defense Force Atlantic/Commander Close-in Defense Force (CTF 81)

(1) Operation Plan

(2) Annex A - Concept of Operations

(3) Annex B - Assignment of Forces

(4) Indicate additional Annexes which would be included for the situation as promulgated by COMASDEFORLANT OpOrd 7-60 (See Annex E hereto).

b. Be prepared to present solution to paragraph a. above during Group Discussions on Tuesday, 26 January.

c. Submit completed requirements to Committee Staff Advisor upon completion of Group Discussions.

2. Attention is invited to pertinent preliminary information, Annex G, page G-1.

3. Submit Evaluation Report (Annex I) if desired.

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Annex C to Directive for Naval Planning and Operations Study,  
Part III

BIBLIOGRAPHY

1. PUBLICATIONS FOR REFERENCE

<u>Number</u>	<u>Title</u>	
<u>NWIP 1-1</u> ,	"Mission and Capabilities of U.S. Ships and Aircraft"	(1 per room)
<u>NWIP 11-22</u> ,	"Fuel Consumption and Endurance Data"	(1 per room)
<u>NWIP 24-2</u> ,	"Anti-Submarine Surface Procedures"	(1 per room)
<u>NWP 25</u> ,	"Mobile Logistic Support Operations"	(1 per two officers)
<u>NWP 33</u> ,	"Electronic Warfare"	(1 per two officers)
<u>NWP 11</u> ,	"Naval Operational Planning"	(1 per student)

2. REQUIRED READING

NWIP 23-12, "Advanced Submarine Warfare Manual" (Secret)  
(1 per officer)

NWP 23, "Submarine Operations" (Confidential)  
(Paras 110-119, 200-222, 1401 and Chapter 6.)  
(1 per two officers)

NWP 26, "Mining Operations" (Confidential) (1 per officer)

OEG Study #573, "Analysis of the Effectiveness of the Anti-Submarine Submarine" (Secret)

Anti-Submarine Warfare Summary, (Op-312C1/pr Ser 00570P31 dated 10 December 1958) N 210.06  
Chapters III, V, and VII.

3. SUPPLEMENTARY READING

Antisubmarine Carrier Air Operations for 1962-1966 Task Force.  
NADC WR 5709 April 1957, N 895 .A5 10 p.

U.S. Naval Electronics Laboratory. A Concept for Defending an Attack Carrier Task Force in an ASW Situation. TM-316  
5 January 1959, 17 p. NG 76 .E4



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Anx C to Directive for NPOS, Pt. III  
BIBLIOGRAPHY

Allied Command, Atlantic. Western Atlantic Area.  
Report on Exercise NEW BROOM IX: ASW Exercise  
30 March - 4 April 1959. undtd. (NATO/C).  
NA 450.6.A622

National Research Council. Mine Advisory Committee.  
Panel on Deep Sea Mines. National Academy of  
Sciences. NRC:MAC:1031. Washington. 1959. (C).  
N 212.N3

Rand Corporation. Polaris Weapons System. RM 2311.  
Santa Monica, Calif. 28 October 1958. (SRD).  
NG 93.R3

\_\_\_\_\_. A Comparison of ASW Defense Methods for  
a Specific Convoy Crossing. NADC-WR-5708. Johns-  
ville, Pa. December 1957. (C). N 312.A515

\_\_\_\_\_. Convoy Defense Against Missile-Firing  
Submarines. NADC-WR-5802. Johnsville, Pa. (C)  
N 212.A514

U.S. Navy. Atlantic Fleet. Antisubmarine Defense Force.  
Capability of the Atlantic Barrier to Detect ECM  
Equipped Penetrators (S). Norfolk, Va. 10 February  
1959. (S). NG 77.A82

\_\_\_\_\_. Estimated Capability of ASW Forces to De-  
fend Against Submarine Launched Guided Missile Attacks.  
(C). 0075. ASDEFORLANT Summary Evaluation Report #2.  
Norfolk, Va. 31 July 1959. (S). N 212.A52

\_\_\_\_\_. Operation Order 1-59. ASDEFORLANT. 06.  
Norfolk, Va. 17 February 1959. (C). NA 62.A83 1959  
No. 1.

U.S. Navy. Atlantic Fleet. Destroyer Force. NIDAR Histori-  
cal Review. Newport. 28 February 1959. (S).  
N 76.D4

U.S. Navy. Pacific Fleet. Mine Force. Mine Hunting  
Doctrine. Tactical Note 1-58. COMINPAC TACNOTE 1-58.  
28 July 1958. (C). N 205.P3

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Anx C to Directive for NPOS, Pt. III  
BIBLIOGRAPHY

- U.S. Navy. Submarine Development Group TWO. Quarterly Report of Fiscal Year (U). Submarine versus Submarine Operations to Solve the Problem of Using Submarine to Detect and Destroy Enemy Submarines. Fourth Quarter. New London, 1959. (C). N 212.S9
- U.S. Office of Naval Intelligence. Soviet ASW Capabilities (U). ONI 52-13A. Washington. 30 June 1959. (S) N 212.152
- U.S. Office of Naval Operations. Antisubmarine Warfare Problem of Unidentified Submarine Contacts. 0010011P92. Washington. 8 December 1958. (S). N 212.061
- \_\_\_\_\_. Submarine Warfare Summary (U). OPNAV P-31-1 Washington. March 1959. (SRD). N 312.067
- \_\_\_\_\_. Countering the Threat of the Nuclear-Powered Submarine (U). OEG Study 594. Washington. 8 January 1959. (S). N 165.064 S594
- \_\_\_\_\_. Defense of the Sea Approaches to the United States. OEG Report 76. Washington. 27 January 1958. (S). N 165.064 R76
- \_\_\_\_\_. An Evaluation of Sea Mines as a Weapon For Use Against Submarines. OEG Report 62. Washington. 17 April 1950. (S).

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Annex D to Directive for Naval Planning and Operations Study,  
Part III

MILITARY AND POLITICAL SITUATION

It is now 15 July, 1960. During the early summer of this year, international tensions have increased as a result of marked activity in the Indian Border States on the part of the Chinese Reds. These disturbances are openly supported by PURPLE and are indicative of further expansion.

Both the 6th and 7th Fleets have been augmented somewhat with a resultant decrease in naval forces available for other commitments.

PURPLE ground forces, using conventional weapons and without warning, violated the Norwegian border on 11 July. Moving north-west, just clear of the Finnish border, they occupied the entire Norwegian Peninsula, Varanger Halvøy, without opposition.

This move was paralleled by a broadcast to the world and a note was forwarded to the United States explaining that such limited action was motivated by economic considerations. The PURPLE contention was that the buildup of NATO strength in northern Norway endangered Murmansk, their one ice-free northern port and that possession of the additional ice-free area afforded by the Varanger Fjord was mandatory.

The very limited Norwegian ground forces available established defense lines in the Trondelag area.

Finland massed troops along her northern border but did not take overt action.

Sweden announced immediately that she proposed to maintain her traditional position of neutrality.

PURPLE naval surface forces now control all seaward approaches to the peninsula.

All NATO forces were alerted at once. The United States introduced a resolution in the Security Council of the United Nations condemning PURPLE actions and called for united member assistance. PURPLE vetoed this resolution and the matter was immediately referred to the General Assembly. This body, over the strong objections of the PURPLE bloc, condemned the aggression and further called on the United Nations members for voluntary assistance in evicting PURPLE from Norway.

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Anx D to Directive for NPOS, Pt. III  
MILITARY AND POLITICAL SITUATION

In the meantime the PURPLE forces remained established without further offensive action, on the Varanger Peninsula.

Norway, hoping the matter might still be arbitrated, asked the United States and NATO not to take immediate offensive action on Norwegian soil.

On July 12th and 13th reliable sources informed the United States that large numbers of PURPLE submarines were transiting from the White Sea into the open waters of the Barents Sea. Intelligence also revealed that no such action was being taken by the Baltic, Black Sea or Vladivostok submarine fleets.

Yesterday, 14 July, the National Security Council evaluated this move by the PURPLE White Sea submarine fleet as one of two possibilities, either a preparedness move to combat any Western bloc striking force that might move into the Norwegian Sea and/or an evacuation to strategic positions in the North Atlantic in anticipation of the commencement of general war. Since the latter possibility was an obvious by-product of the former and, despite lack of similar action by the remaining PURPLE submarine fleets, the Security Council has recommended the commencement of unilateral anti-submarine warfare against any PURPLE submarines in position or attempting to gain position from which the United States could be attacked. The President of the United States has established 14 July 1960 as Mobilization (M) day and has advised the world of U.S. intentions to take such action within 600 miles from the U.S. coastline. Permission to use nuclear weapons in this portion of the high seas has been granted.

Canadian and British facilities within or on the immediate borders of this area will provide, to their maximum capability, operational support of the U.S. effort.

By message of 15 July 1960 CINCLANTFLT directed COMASDEFORLANT to conduct intensive offensive and defensive anti-submarine operations within 600 miles of the continental United States in order to deny this area to PURPLE submarines. Twelve (12) Mk 90 and forty (40) Mk 101 special weapons were allocated to COMASDEFORLANT for use at his discretion. Forces made available are as shown in Annex F to this Directive.

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Annex E to Directive for Naval Planning and Operations Study,  
Part III

PROBLEM MESSAGE

1. Today, 16 July 1960, COMASDEFORLANT sends the following message to CTF 81 (Commander Close-in Defense Force):

FROM: COMASDEFORLANT

TO: COMMANDER TASK FORCE EIGHTY-ONE

INFO: COMSECFLT, CNO, CINCLANT, CINCLANTFLT, COMDESLANT, COMCARIBSEAFRON, CINCNORAD, COMSERVLANT, COMSUBLANT, COMEAST-SEAFRON, COMPHIBLANT, **COMNAVAIRLANT**, **COMMINLANT**.

161200Z THIS IS COMASDEFORLANT OORDER SEVEN DASH SIXTY  
EFFECTIVE UPON RECEIPT X SIT LARGE SCALE MOVEMENT PURPLE  
SUBMARINE FLEET FROM WHITE SEA INTO BARENTS CMA SUBSEQUENT  
MOVEMENTS AND INTENTIONS UNKNOWN X PURPLE FORCE DAILY INTSUM X  
CINCLANT DIRECTS IMMEDIATE DENIAL ATLANTIC OCEAN AREA WITHIN  
SIX HUNDRED MILES US COASTLINE TO PURPLE SUBMARINE FORCE X  
PARA MISSION CONDUCT INTENSIVE OFFENSIVE AND DEFENSIVE ASW  
TO SEARCH OUT AND DESTROY PURPLE SUBMARINES IN ORDER TO DENY  
THIS AREA TO PURPLE SUBMARINE FORCE X PARA EXECUTION THIS  
FORCE WILL ESTABLISH A DEFENSIVE PERIMETER SIX HUNDRED MILES  
FROM THE ATLANTIC COAST AND CONDUCT OFFENSIVE AND DEFENSIVE  
ASW OPERATIONS WITHIN THIS PERIMETER X PARA ADMIN LOGISTICS  
ACCORDANCE LANTFLT REGS SPECIAL WEAPONS CMA TEN MK NINETY  
AND FORTY MK ONE ZERO ONE ALLOCATED FOR USE AT YOUR DISCRETION  
CMA COMASDEFORLANT RETAINS TWO MK NINETY AND EIGHT MK ONE  
ZERO ONE X PARA COMMAND AND SIGNAL CINCLANTFLT COMPLAN ONE  
DASH SIX ZERO X SUCCESSION TO COMMAND ART ONE THREE SEVEN ONE  
NAVY REGS X COMASDEFORLANT IN HDQTRS NORFOLK X ACTION ADDEE  
ACKNOWLEDGE BT

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Annex F to Directive for Naval Planning and Operations Study,  
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FORCE TABULATION

<u>Forces assigned CTF 81 and operationally ready</u>		<u>Location</u>
1.	<u>ANTI-SUBMARINE CARRIER GROUP ALPHA, RADM ABC</u>	600 miles east of Norfolk
	a. CARRIER UNIT	
	CVS-18	1 CVS
	VS-30	20 S2F
	HS-11	14 HSS
	VFAW-4 Det.)	10 F2H4
	Embarked Air Group	
	b. SCREEN UNIT	
	DESRON 2	7 DD
	DD 822	1 DD
2.	<u>ANTI-SUBMARINE CARRIER GROUP BRAVO, RADM DEF</u>	Norfolk
	a. CARRIER UNIT	
	CVS-45	1 CVS
	VS-27 ) Embarked Air	20 S2F
	HS-7 ) Group	14 HSS
	b. SCREEN UNIT	
	DESRON 24	1 DD, 6 DDE
	DD 864	1 DD
3.	<u>PATROL GROUPS</u>	
	VP-56	Norfolk 12 P2V
	VP-7	Argentia 12 P2V
	VP-10, VP-11	Brunswick 24 P2V
	VP-44, VP-8	Norfolk 24 P5M
	VP-45	Bermuda 12 P5M
4.	<u>SUBMARINE UNITS</u> (All SS have SSK capability)	
	SUBRON 8	New London 8 SS
	SUBRON 6	Norfolk 12 SS

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Anx F to Directive for NPOS, Pt. III  
FORCE TABULATION

5. DESTROYER UNITS

DL-1	Newport	1 DL
DESRON 32	Norfolk	7 DD
DESRON 22	Newport	8 DD
DESRON 16	Guantanamo	7 DD

6. SUPPORT UNITS

a. FLEET OILERS

AO 26, 55	Newport	2 AO
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7. ATLANTIC SOUND SURVEILLANCE SYSTEM

- a. St. Johns - looks 100°
- b. Halifax - looks 160°
- c. Norfolk (Coordination Center) - looks 090°
- d. Bahama - looks 080°
- e. Bermuda - looks 315°
- f. Cape Cod - looks 110°
- g. San Juan - looks 000°

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Annex G to Directive for Naval Planning and Operations Study,  
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PERTINENT INFORMATION

1. COMASDEFORLANT is one of two major intertype commanders and as such has been given primary responsibility for defensive operations without regard to area boundaries. Commander Task Force EIGHTY-ONE is the command designation by which COMASDEFORLANT directly exercises operational control of forces for the conduct of operations in the defense of the United States.

2. In addition to the two Rear Admirals embarked on the two CVS and the other unit commanders who are not of flag rank, the following officers with their staffs but not their flagships report to COMASDEFORLANT in connection with ASW duties:

- a. ComDesFlot 2
- b. ComFairQuonset
- c. ComFairJax
- d. ComCaribSeaFron

3. The following information concerning shore facilities outside the CONUS is provided:

- a. Naval Base, Argentinia

A small naval base and temporary fleet anchorage now capable of supporting ASW and escort types. Limited emergency repairs for all types. Drydock facilities for DD and SS.

The following material will be available on M/1:

- (1) General Stores
- (2) Ships Repair Parts
- (3) Electronic Repair Parts
- (4) Submarine Repair Parts
- (5) Aeronautical Material
- (6) Bulk and Packaged POL
- (7) Ordnance Repair Parts
- (8) Navy Furnished Ammo
  - Torpedoes
  - Advanced Undersea Weapons
  - Others
- (9) Aircraft Maintenance
- (10) Salvage and Towing



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Anx G to Directive for NPOS, Pt. III  
PERTINENT INFORMATION

b. NAS and Naval Station Bermuda

This complex consists of a Naval Station and a Naval Air Station and a temporary fleet anchorage. Emergency repairs for all fleet units. The complex will now support limited ASW and reconnaissance operations.

(1) The following will be available in quantity in the complex on the date indicated:

- (a) General Stores - M/1
- (b) Ships Repair Parts - M/1
- (c) Electronic Repair Parts - M/1
- (d) Aeronautical Material - M/1
- (e) Bulk and Packaged POL - M/1
- (f) Ordnance Repair Parts - M/1
- (g) Ship Repairs - M/1
- (h) Aircraft Maintenance, Class C - M/1
- (i) Towing - M/2
- (j) Floating Drydock - M/3

c. The Caribbean Complex

(1) This consists of NAFS at Aruba, Curacao and San Juan and Naval Bases at Guantanamo, Roosevelt Roads, San Juan and Trinidad.

(2) In the Caribbean area there now exists limited support for all ASW type ships and forces both as to logistics and repairs. Adequate anchorages are available.

4. The forces indicated in Annex F (Force Tabulations) represent only the forces of COMASDEFORLANT assigned to CTF 81 (Commander Close-in Defense Force) for the accomplishment of this assigned task. Additional forces are maintained in reserve to provide for the possibility of general war.

5. In preparing the Operation Plan and associated Annexes as directed in Annex B (Student Requirements) hereto, primary emphasis should be given to original thought and considered content rather than immersion in stereotype details.

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Annex H to Directive for Naval Planning and Operations Study,  
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CDR T.D. Quinn, USN  
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Anx H to Directive for NPOS, Pt. III  
COMMITTEE ASSIGNMENTS

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LCDR W.B. Hayler, USN  
LCDR J.D. Kidd, USN  
CAPT E.S. Manown, USN  
CDR R.E. Reed, USN  
CDR J.R. Rees, USN  
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CAPT R.M. Elder, USN  
CDR J.H. Hitchcock, USN  
CAPT P.J. Knapp, USN  
CDR J.M. Mason, USN  
CAPT W.T. Rossell Jr., SC, USN  
LTCOL L.T. Shuler, USAF  
LCDR A.P. Slaff, USN  
CDR D.C. Stanley, USN  
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Annex I to Directive for Naval Planning & Operations Study  
Part III

To: All Students, Naval Warfare Course

Subj: Evaluation Report on Curriculum Item: Undersea Warfare

1. The purpose of this evaluation report is to provide Naval Warfare students an opportunity for frank and constructive criticism of the Undersea Warfare Study. By this method the true value of this study may be determined and improvements effected. The submission of this report is optional and no signature is required. Completed evaluation sheets should be returned to the Publications Branch, Room N-14, Mahan Hall, prior to 1630, 28 January 1960.

2. Comment as to:

- (a) Time allocated to the Study
- (b) Success attained in accomplishing the Purpose of the Study
- (c) Degree to which the Scope of the Study was fulfilled
- (d) Method of instruction employed
- (e) Effectiveness of study Directive.

3. Give your frank opinion as to the value of the study in the Naval Warfare curriculum and any recommendations for its improvement.

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(Signature Optional)