



(11) Special equipment was installed by Hudson Laboratories for this operation. The ship carried three Hudson Laboratories Technicians to operate this gear. It measured the strength of the source signal as received by CORPORAL, and simultaneously transmitted a reference signal triggered by the source.

(12) 1 September - 19 September, upkeep

(a) Special equipment installed by Hudson Laboratories was removed. In other respects, this was a routine upkeep.

(13) 19 September - 30 September, ASW exercise.^{9/}

(a) CORPORAL conducted this exercise, known as BIG DADDY TWELVE, with the USS DACE (SSN607), USS COBLER (SS344) and USS CLAMAGORE (SS343).

(b) This exercise was the twelfth in a series of submarine versus submarine exercises scheduled by CONSUBLANT for purposes of developing submarine ASW tactics and for obtaining operational data under known conditions. The specific purpose of Exercise BIG DADDY TWELVE was to evaluate the performance of the SSN 594 class submarine against diesel electric submarines.

(c) CORPORAL participated in the following phases of the exercise:

1. Phase I - CORPORAL, COBLER and CLAMAGORE transited on the surface while DACE trailed submerged

2. Phase III - CORPORAL, COBLER and CLAMAGORE transited submerged while DACE employed active sonar to detect.

9/ CONSUBLANT TWO OPORD TT-66 (Enclosure (3) to Annex C)

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3. Phase IV - CORPORAL, COBBLER and CLAMAGORE transited submerged, while DACE employed passive sonar to detect.

(14) 3 October - 20 October, research and development services. ^{10/}

(a) This operation consisted of a series of tests conducted with USS TIGRONE (AGSS419). TIGRONE acted as source ship, and CORPORAL was target ship. The operation took place in the Bermuda Operating areas.

(b) The exercise was a part of a CNO project to conduct research and investigation of the bottom bounce mode of propagation and its applications.

(c) These tests consisted of a series of parallel, opening, closing, zig-zag and circling runs. Both submarines operated at 300 feet.

(d) 13-15 October was spent in Bermuda at the U.S. Naval Station for a weekend of rest and recreation.

(15) 24 October - 3 November, submarine ASW exercise. ^{11/}

(a) CORPORAL participated in Phase I of SUBASWEX 4-66 in the Gulf of Maine with USS TUSK (SS424), USS COBBLER, USS CLAMAGORE (SS343), USS DACE (SSN607) and USS POLLACK (SSN603).

(b) SUBASWEX 4-66 continued the series of submarine versus submarine exercises scheduled by COMSUBLANT for purposes of developing submarine ASW tactics, and for obtaining operational data under known conditions.

10/ COMINTONTEVDET OPORDER 39-66 (Enclosure (4) to Annex C)

11/ COMSUBDEVCGRU TWO OPORDER 13-66 (Enclosure (5) to Annex C)

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(c) DACE and POLLACK acted as coordinated SSX's under free play conditions. CORPORAL and the remaining diesel submarines acted as transitors.

(16) 7 November - 11 November, officers' submarine school operations. ^{12/}

(a) The ship conducted routine officers' submarine school diving training in the Narragansett Bay Operating areas. Students manned diving stations and performed diving operations under the supervision of submarine school instructors and ships' officers.

(17) 11 November - 14 November, officers' submarine school operations. ^{13/}

(a) CORPORAL continued officers' submarine school diving training in the Narragansett Bay operating areas.

(b) Departed the Narragansett Bay operating areas on the seventeenth for U.S. Naval Ammunition Depot, Earle, New Jersey.

(18) 18 November, weapon transfer. ^{15/}

(a) Accomplished transfer of two MK 45 torpedoes at the U.S. Naval Ammunition Depot, Earle, New Jersey.

(b) Departed Earle and moved New London the same day.

(19) 19 November - 31 December, leave and upkeep.

(a) Commenced a routine upkeep, and made preparations for a Mediterranean deployment, to embark 3 January 1967.

(b) The ship drydocked 21-30 November to repair the garbage disposal unit, and to replace propellers.

12/ CONSUBFLOT TWO OPSKED 45-66

13/ CONSUBFLOT TWO OPSKED 46-66

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(20) 23 December, change of command.

(a) LCDR HUBBELL relieved CDR SMITH of command of CORPORAL on this date. The change of command ceremony was attended by RADM J. W. WILLIAMS, Jr., USN.

(b) CDR SMITH received the Secretary of the Navy Commendation for his performance as commanding officer of CORPORAL. The commendation was presented to CDR SMITH by RADM WILLIAMS.

3. (U) Special Topics

a. Operational statistics, 1966

(1) Days underway - 214

(2) Total days submerged - 114
Days on the battery - 83
Days snorkeling - 31

(3) Fired one torpedo for one constructive hit.

b. Personnel casualties. ^{14/}

(1) ENT3(SS) Robert Francis CRONOTTI, USN, 237 94 46, then attached to CORPORAL, was pronounced dead on arrival at the Submarine Base Medical Center at approximately 1800, 9 April 1966. The immediate cause of death was aspiration of blood in the lungs.

(2) At approximately 1730, 9 April 1966, CRONOTTI had been the driver of an automobile which struck a telephone pole, and then struck a large boulder causing the automobile to overturn on Military Highway, Groton, Connecticut.

c. Number of reenlistments, 1966 - 3.

d. Special training

14/ Commander Submarine Squadron TWO letter serial 418 of 1 July 1966

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(1) Four midshipmen first class reported for duty on 19 July 1966. They were detached on 9 September 1966.

(2) The midshipmen were integrated into the wardroom as assistants to department heads. The Submarine Training Syllabus for Midshipmen first class was followed closely as a training guide.

e. Awards

(1) CSD 21 Battle Efficiency "E"

(2) Torpedo Fire Control and Performance Award.

f. Nominations

(1) Commander Submarine Flotilla TWO nomination for "Ship of the Year."

(2) Providence Plantation Council Award.

g. Commanding Officer's commendations were given to the following personnel:

LCDR Joseph P. GLEASON, USN, 574664/1100
LCDR Donald M. ULMER, USN, 584786/1100
LCDR John E. BRYAN, Jr., USN, 606542/1100
LT Frank C. DICKSON, II, USN, 656634/1100
LTJG John T. HOLMES, USN, 681501/1100
ENCM(SS) Charles R. DICKENS, USN, 864 80 35
TMCS(SS) Anthony J. POSSELT, USN, 223 90 29
TM2(SS) Delbert W. HAYDEN, USN, 536 62 27
YN2(SS) Charles D. COOKE, USN, 534 50 63
QM3(SS) William V. COOK, USN, 542 39 44

4. Lessons learned, comments, and recommendations (3)

a. Comment. A practical ability to navigate using the periscopes is a virtual necessity when engaged in undetected patrols.

(1) Present wartime commitments assign diesel-electric submarines to patrol areas where electronic navigational aids are unreliable or non-existent. The submarine must transit and remain on station completely

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submerged. Denied the use of the sextant or electronic aids, the SCAR equipment installed in the 3-B periscope becomes the most valuable navigational instrument available to the Navigator.

(2) Number two periscope statimeter can be used to measure altitude of the sun and moon up to eight degrees above the horizon. This is a valuable technique when operating in high latitudes.

Recommendation. Submarines should train and maintain a navigational ability using only the periscopes.

b. Comment. CORPORAL's successful completion of two consecutive special operations reconfirms the material and operational capability of the diesel-electric submarine to function in an SSK role in distant patrol areas.

c. Comment. During Phase I of Exercise BIG DADDY TWELVE, CORPORAL conducted a coordinated transit subject to surveillance. It was determined that an SOA in excess of ten knots did not allow sufficient freedom to investigate, decoy and or avoid surveillance while maintaining PIM.

Recommendation. For coordinated surface diesel transits subject to surveillance, an SOA of ten knots or less is recommended. ^{15/}

5. (S) Documentary Annexes

Annex A - Copy of Welcome Aboard Pamphlet

Annex B - Muster Role and Roster of Officers

Annex C - Major Operation Orders

Annex D - Photograph of USS CORPORAL (SS346)

^{15/} Commanding Officer, USS CORPORAL (SS346) Letter serial 009 of
29 September 1966

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