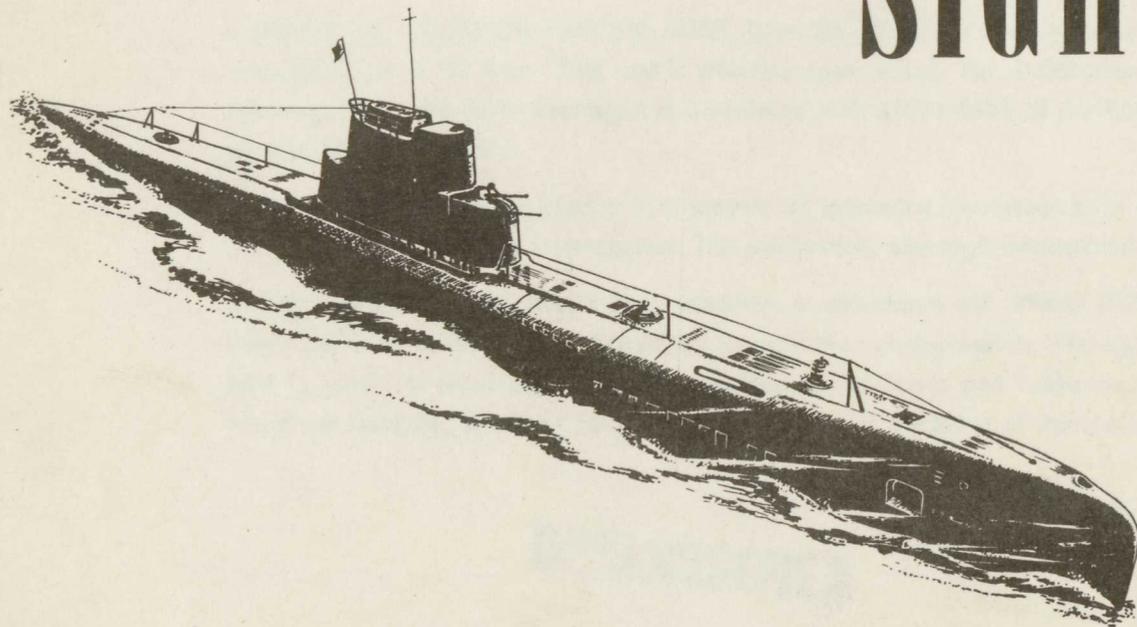


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JUNE 1958

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SUBMARINE SIGHTING GUIDE



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ONI 31-2A

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DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
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WASHINGTON 25, D. C.

Refer to:
ONI 31-2A
June 1958

LETTER OF PROMULGATION

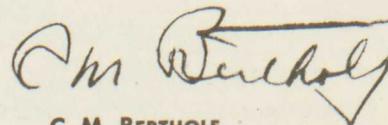
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Captain, U. S. Navy
Assistant Director of Naval Intelligence
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1958

SNDL PART I

21(LANT(10), PAC(2), NELM(1))(COMMANDERS IN CHIEF)
 22(1 EACH EXCEPT 2 FOR SIXTH & SEVENTH)(FLEET COMMANDERS)
 23(CONAD(1), JAPAN(5), PHIL(5), TAIWAN(1) ONLY) (NAVAL FORCE COMMANDERS)
 23A(ASDEFORLANT & MIDEASTFOR ONLY) (SPECIAL FORCE COMMANDERS)
 24A(PAC(5) ONLY, B(LANT(2), PAC(5)), C(CRULANT(5), DESLANT(2),
 CRUDESAC(2), E(LANT(5), PAC(2)), F(2), G, H(PAC ONLY), J,
 TYPE COMMANDERS)
 26A(PAC ONLY), B(LANT(2), PAC(1)), D(PAC ONLY), E(BJU ONLY),
 F(OPDEVFORLANT & SURASDEVDET ONLY), H(LANT ONLY), N(LCREEK(3),
 CORONADO(1)), O(GMGRU ONLY), P(LANT ONLY), EE(LANT ONLY), (SPECIAL
 COMMANDS, GROUPS & UNITS)
 27C(SEA FRONTIER COMMANDERS)
 28A(2), B, C, D, EI, F, G, H, J, K(LANT ONLY), (FLOTILLA, SQUADRON, &
 DIVISION COMMANDERS - SHIPS)
 29B(5), D(5), E(5), F(5), G(LANT(5), PAC(25)), H(5), M(LANT(3),
 PAC(1)), N(LANT(3), PAC(1)), O(3), P(LANT(3), PAC(1)), Q(LANT(3),
 PAC(1)), R(LANT(3), PAC(1)), S(LANT ONLY), U(LANT ONLY),
 V(LANT ONLY), W(LANT ONLY), X(LANT ONLY), (WARSHIP TYPE SHIPS)
 30A(2), B, C(PAC ONLY), D(3), (MINECRAFT TYPE SHIPS)
 31A(LANT(1), PAC(2), B, BI(LANT(1), PAC(2)), CI(LANT(1), PAC(2)),
 D(LANT ONLY), G(LANT ONLY), J(LANT(1), PAC(2)), L, M, (AMPHIBIOUS
 TYPE SHIPS)
 32A, B, C, D, F(LANT ONLY), J, K, L, M, NI, P, R, S, T, U, W, X,
 Y(LANT ONLY), DD(LANT ONLY), EE(LANT ONLY), GG, HH(LANT(1), PAC(10)),
 JJ, LL, (AUXILIARY TYPE SHIPS)
 33A(LANT ONLY), (PATROL TYPE CRAFT)
 36A(LANT ONLY), (SERVICE CRAFT)
 42A(LANT(5), PAC(1)), B, D(LANT(5) ONLY), E(LANT ONLY), H(PAC ONLY),
 I(HATWING ONE(5), HATWING TWO(1), ALL OTHERS 1 EACH LESS PAC HATU),
 J, JI, K, KI(LANT ONLY), L, LI(LANT ONLY), N(LANT(18), PAC(15)), Q,
 R(LANT ONLY), S(LANT ONLY), T(LANT ONLY), U(LANT ONLY), V(1 EACH
 EXCEPT ZP(9)), X(LANT(1), PAC(5)), Y, AA, BB(LANT(2), PAC(15)),
 CC(LANT VW(18), PAC VW(1), LANT VAW(1) ONLY), DD(LANT(2), PAC(25)),
 EE, (NAVAL AVIATION)
 45V, (FLEET MARINE FORCE - GROUND)
 46A(LANT(1), PAC(10)), B(LANT(1), PAC(10)), C(LANT ONLY), CI(PAC ONLY),
 D(PAC(2) ONLY), DI(PAC(2) ONLY, E(PAC(2) ONLY), H, PI(LANT ONLY),
 P2(LANT ONLY), Z, (FLEET MARINE FORCE - AVIATION)
 COMSEADFCOM(US)
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 A2A(ONR ONLY)(INDEPENDENT OFFICES)
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 G1B(AIR STATION AUXILIARY)

98, 745

G1D(AIR FACILITY BUAER)
 G3A(2)(AIR TRAINING COMMAND)
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 G3E(AIR TECH TRAINING COMMAND)
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 G8B(55)(PHOTO INTERPRETATION CENTER)
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 G8M(PTLY ONLY)(NAVAL ACTIVITIES)
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 J106(LANT FLEET ASW TACTICAL SCOL)
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 J16(3)
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 ANO SDIEGO
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 NAVSECGRUDETPAC(3)
 ADIO(AIR)(2)
 CHNAVSEC CGSC

OTHER AGENCIES AND DEPARTMENTS

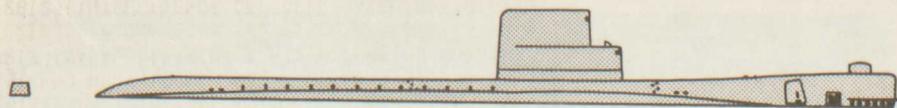
CIA(40)
 ACSI USAF(350)
 ACSI DA(10)
 USCG(220)

OPNAV

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 OP-33(5)
 OP-34
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 OP-52(3)
 OP-55(5)
 OP-561F(30)
 OP-60
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 OP-922F1E
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 OP-922V
 OP-922Y1(8)
 OP-922Y2
 OP-923T
 OP-922H3F - 923M5

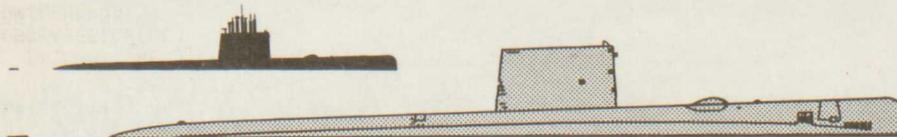
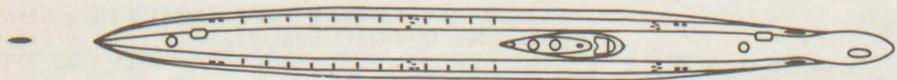
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UNITED STATES



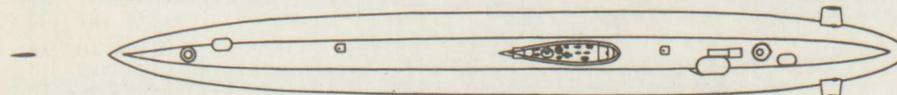
1. SSN SEAWOLF

338'



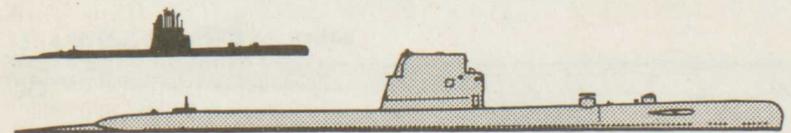
2. SSN NAUTILUS (Silhouette shows NAUTILUS with snorkel and periscopes raised.)

320'



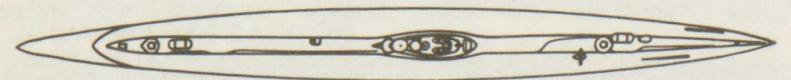
3. SSN SKATE CLASS

261'

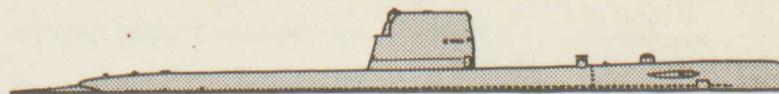


4. TANG CLASS - 1st variation (Silhouette shows snorkel and periscopes raised.)

268'

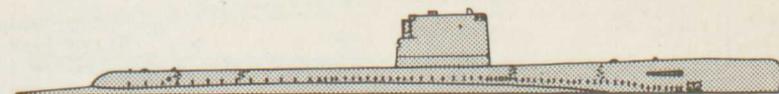


UNITED STATES (CONT'D)



5. TANG CLASS - 2nd variation

268'



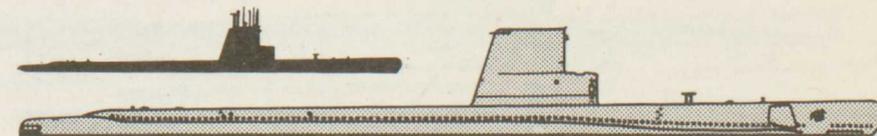
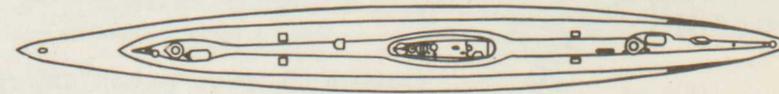
6. TANG CLASS - 3rd variation

268'



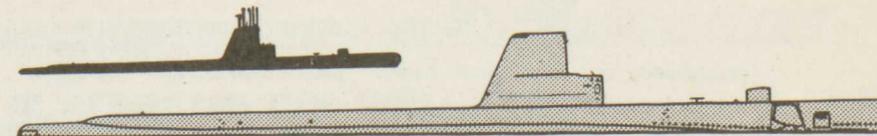
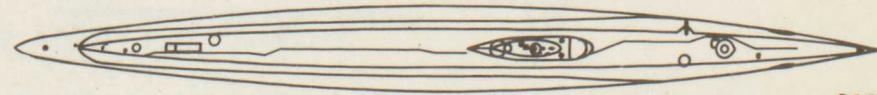
7. TANG CLASS - 4th variation (Silhouette shows snorkel and periscopes raised.)

268'



8. "GUPPY" - 1st variation (Silhouette shows snorkel and periscopes raised.)

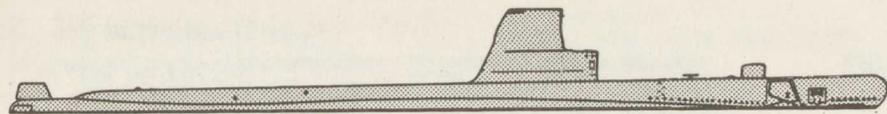
306'



9. "GUPPY" - 2nd variation (Silhouette shows snorkel and periscopes raised.)

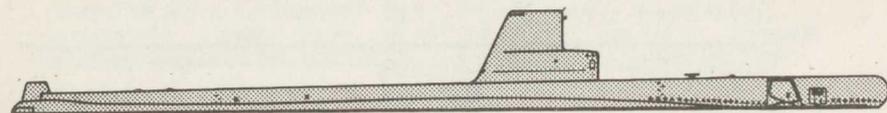
306'

UNITED STATES (CONT'D)



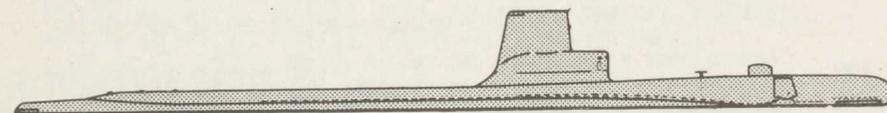
10. "GUPPY" - 3rd variation

306'



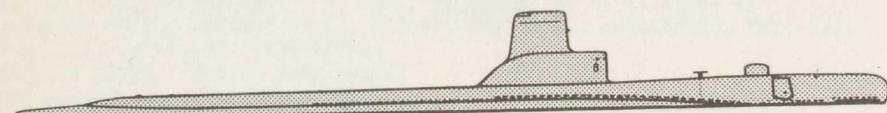
11. "GUPPY" - 4th variation

306'



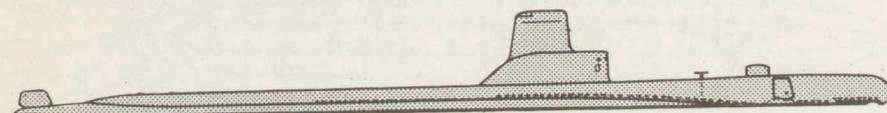
12. "GUPPY" - 5th variation

306'



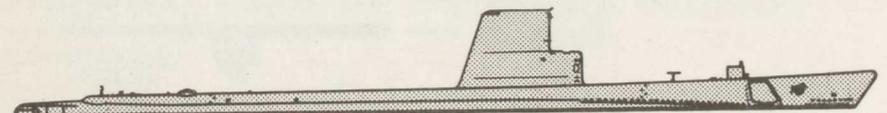
13. "GUPPY" - 6th variation

306'



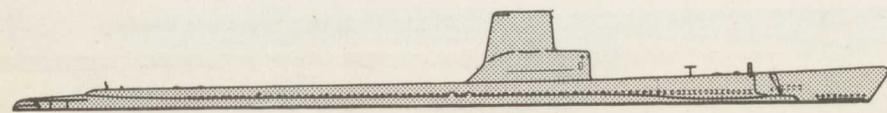
14. "GUPPY" - 7th variation

306'



15. "FLEET-TYPE SNORKEL" - 1st variation

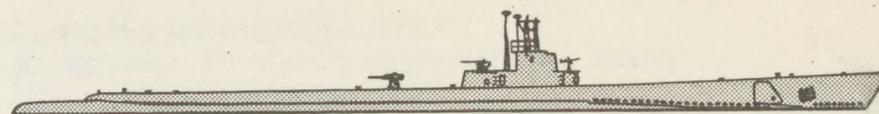
312'



16. "FLEET-TYPE SNORKEL" - 2nd variation
(Some may mount deck gun aft of conning tower.)

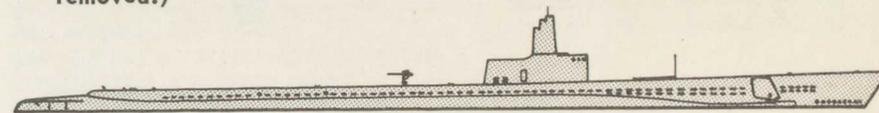
312'

UNITED STATES (CONT'D)



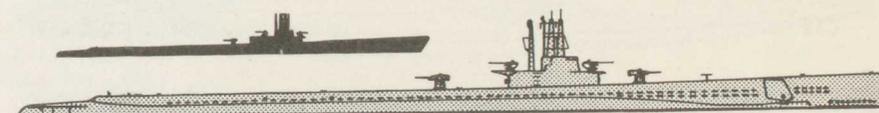
17. "FLEET-TYPE" GATO CLASS - 1st variation
(Deck gun arrangement varies and may be completely removed.)

312'



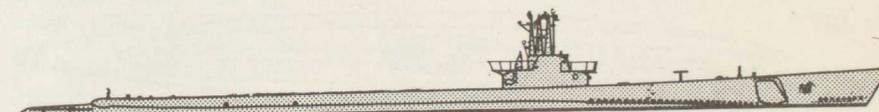
18. "FLEET-TYPE" GATO CLASS - 2nd variation

312'



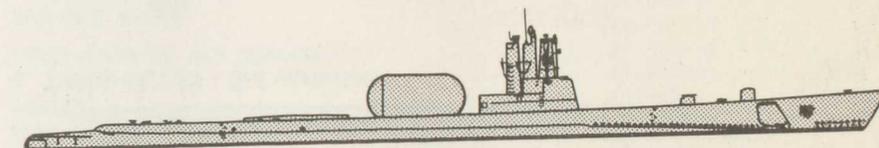
19. "FLEET-TYPE" BALAO CLASS
(Silhouette shows deck gun variation.)

312'



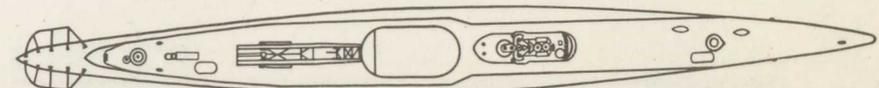
20. "FLEET-TYPE" BALAO CLASS - with all guns removed

312'

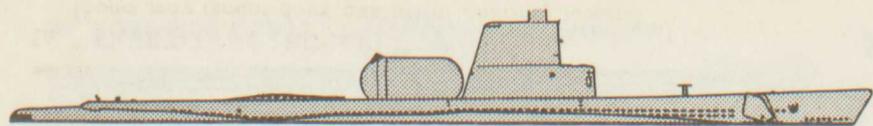


21. SSG (Guided Missile) - 1st variation

312'

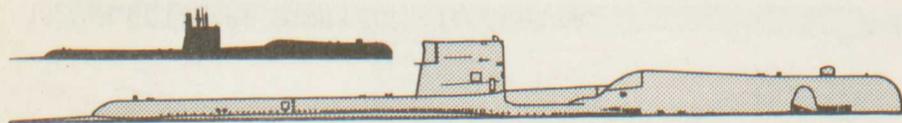


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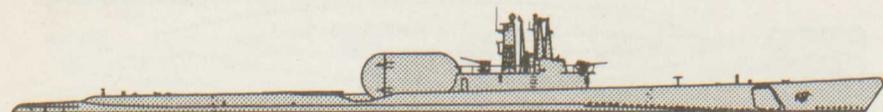
22. SSG (Guided Missile) - 2nd variation

312'



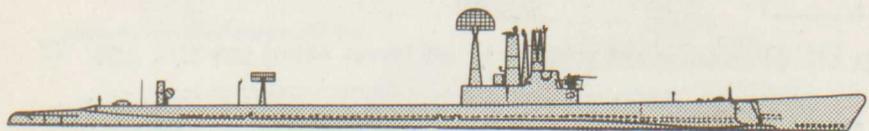
23. SSG GRAYBACK CLASS (Silhouette shows snorkel and periscopes raised.)

319'



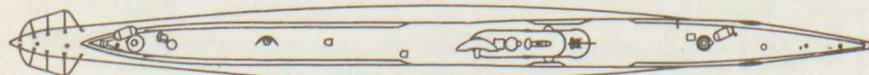
24. AP(SS) - Transport submarine

312'



25. SSR (Radar Picket) - 1st variation

312'

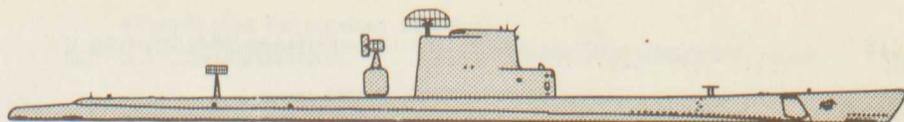


26. SSR (Radar Picket) - 2nd variation

312'

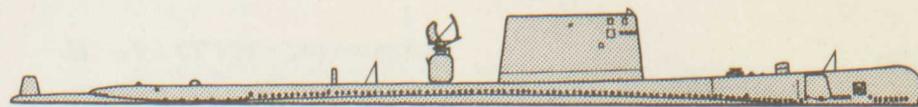


UNITED STATES (CONT'D)



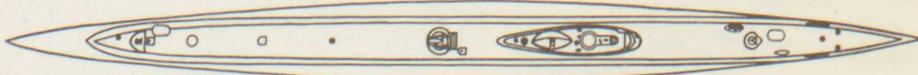
27. SSR (Radar Picket) - 3rd variation

341'



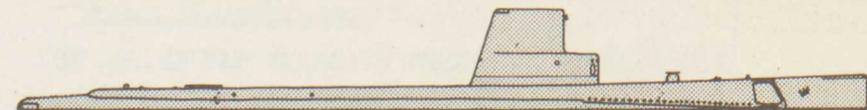
28. SSR (Radar Picket) - 4th variation

350'



29. AO(SS) - Tanker Submarine

312'

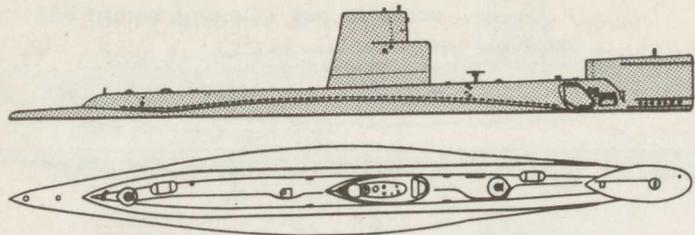


30. SSK TYPE II CONVERSION (Anti-Sub.)

312'

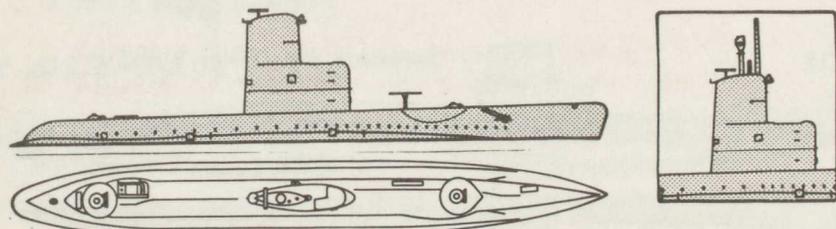


UNITED STATES (CONT'D)



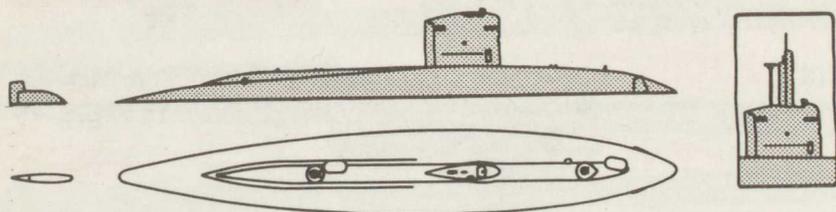
31. SSK 1 CLASS (Anti-Sub.)

196'



32. SST 1 CLASS (Inset shows periscopes and snorkel raised.)

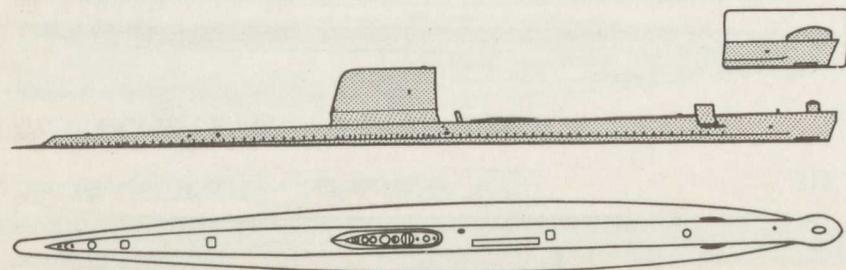
130'



33. AGSS ALBACORE (Inset shows periscopes raised.)

203'

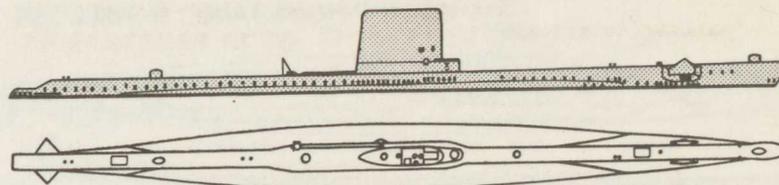
GREAT BRITAIN



34. PORPOISE CLASS (Inset shows bow variation.)

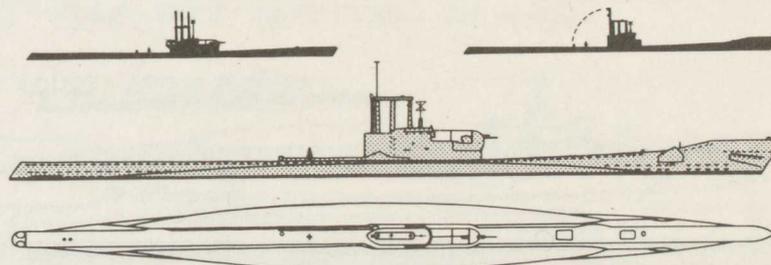
295'

GREAT BRITAIN (CONT'D)



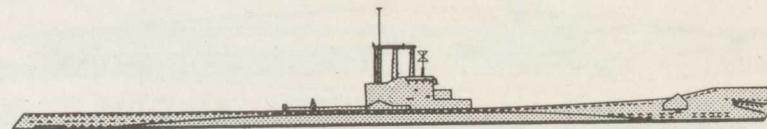
35. "A" CLASS - (STREAMLINED)

282'



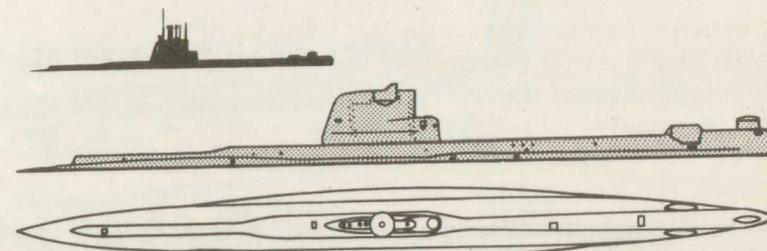
36. "A" CLASS - 1st variation (Silhouette at left shows AMPHION with periscopes raised, silhouette at right shows snorkel raised.)

282'



37. "A" CLASS - 2nd variation

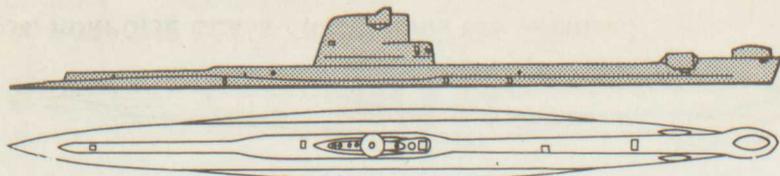
282'



38. "T-CONVERSION" - 1st variation (Silhouette shows snorkel and periscopes raised.)

285'

GREAT BRITAIN (CONT'D)



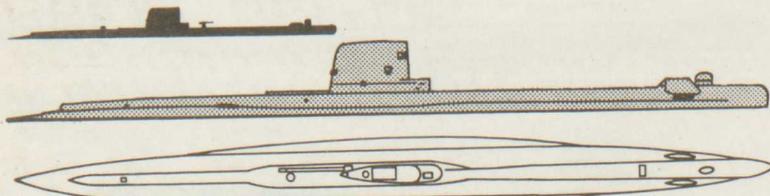
39. "T-CONVERSION" - 2nd variation

285'



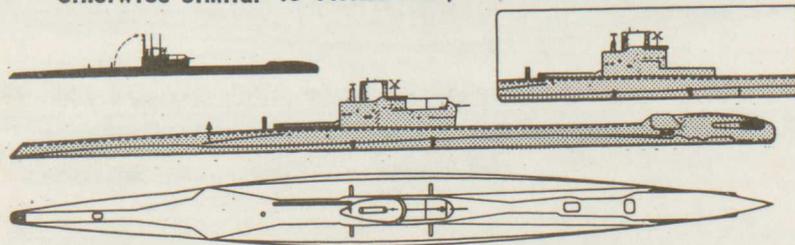
40. TABARD - As reconstructed

296'



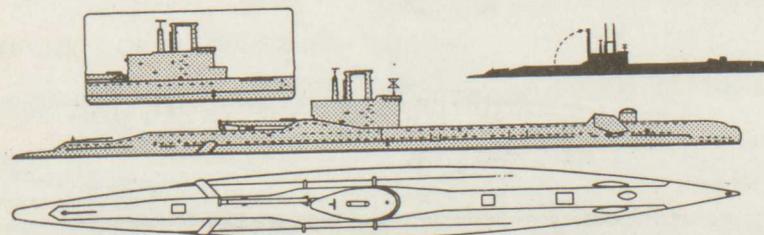
41. TIRELESS (Silhouette shows TALENT with deck gun, otherwise similar to TIRELESS.)

274'



42. TRITON CLASS (Inset shows conning tower variation, silhouette shows snorkel and periscopes raised.)

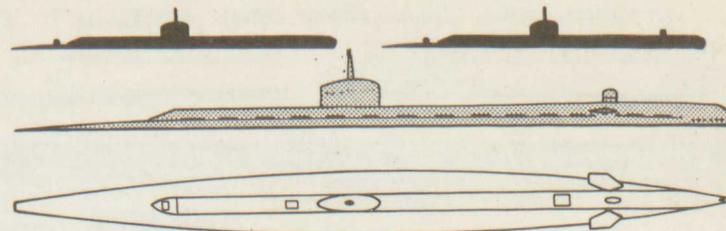
274'



43. "1940 S" CLASS (Inset shows conning tower variation, silhouette shows snorkel and periscopes raised.)

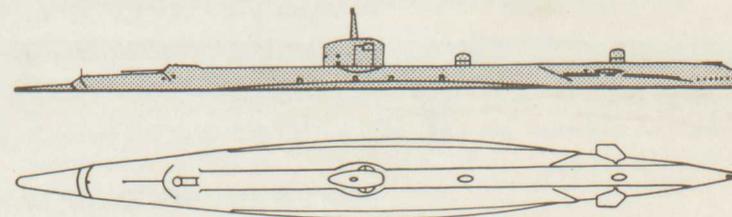
217'

GREAT BRITAIN (CONT'D)



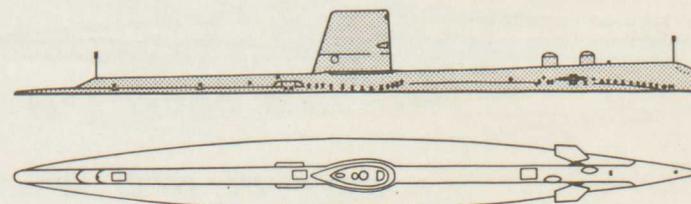
44. "1940 S" CLASS - As modified for target and training duties (Silhouettes show minor appearance variations.)

217'



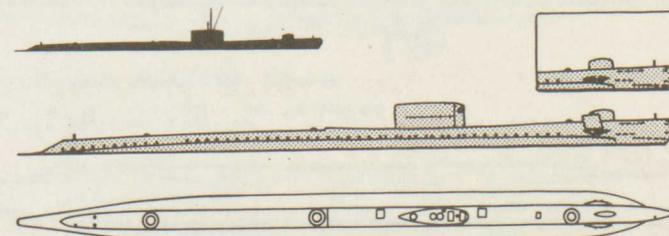
45. SERAPH - As reconstructed

217'



46. SCOTSMAN - As reconstructed

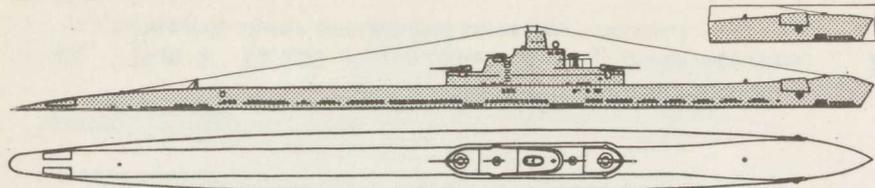
217'



47. EXPLORER CLASS (Inset shows bow-planes lowered, silhouette shows periscopes raised.)

225'

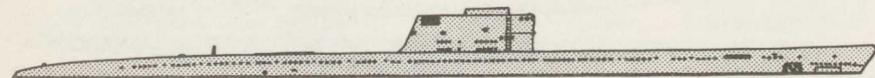
USSR



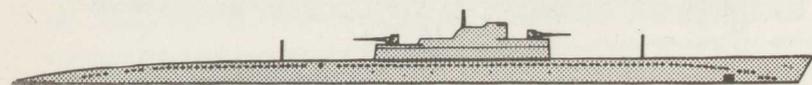
48. "K-1" CLASS (Inset shows bow variation) 320'



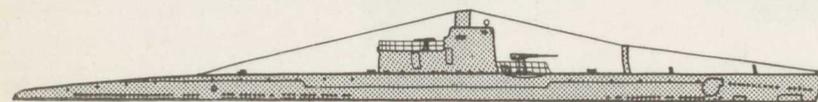
49. "Z" CLASS - 1st variation (Deck gun may be removed.) 290'



50. "Z" CLASS - 2nd variation 290'



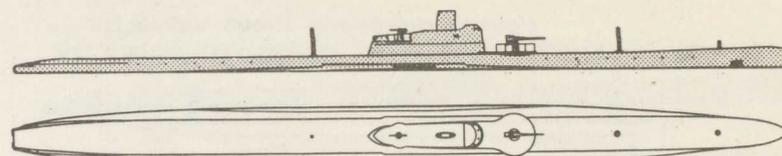
51. "P" CLASS 287'



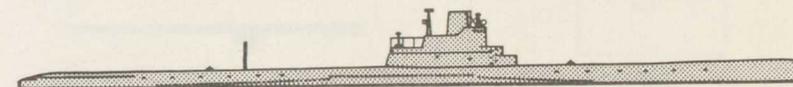
52. "D" CLASS 282'



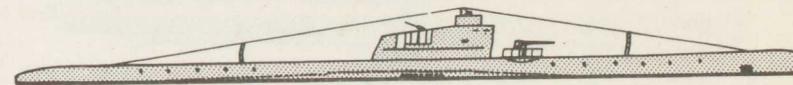
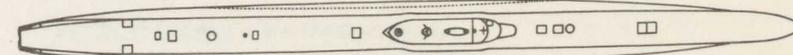
USSR (CONT'D)



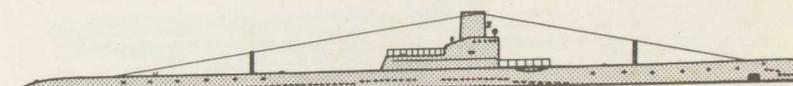
53. "L-III" CLASS - 1st variation 266'



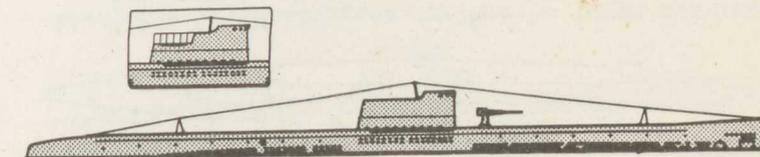
54. "L-III" CLASS - 2nd variation 266'



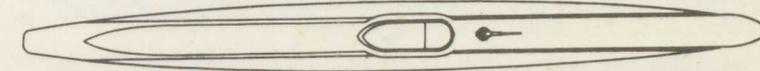
55. "L-II" CLASS - 1st variation 266'



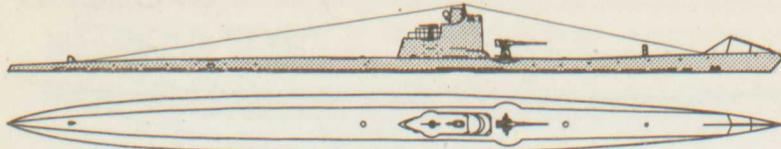
56. "L-II" CLASS - 2nd variation 266'



57. "L-I" CLASS (Inset shows conning tower variation.) 256'

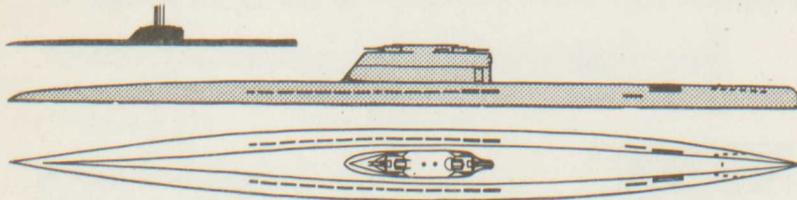


USSR (CONT'D)



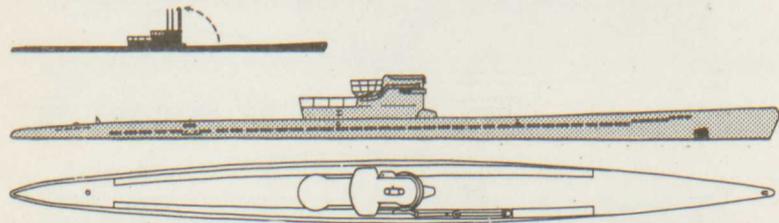
58. "S-1" CLASS

255'



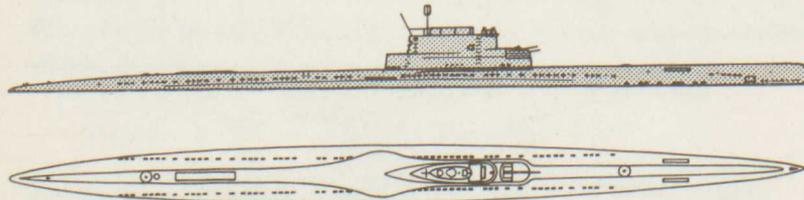
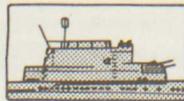
59. German "TYPE XXI" CLASS (Silhouette shows snorkel and periscopes raised.)

252'



60. German "TYPE IX-C" CLASS (Silhouette shows snorkel and periscopes raised.)

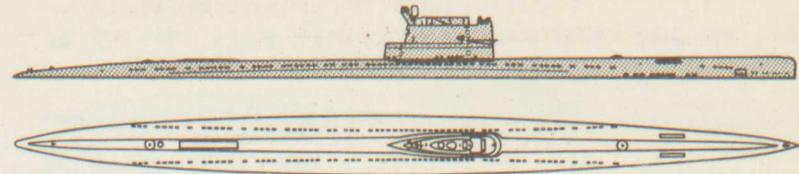
252'



61. "W" CLASS - 1st variation (Insets show conning tower variations; deck guns, once mounted just aft of conning tower, have been removed.)

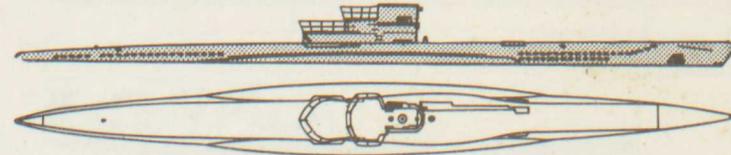
240'

USSR (CONT'D)



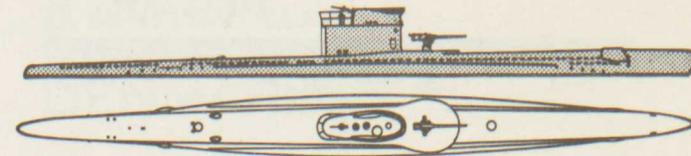
62. "W" CLASS - 2nd variation

240'



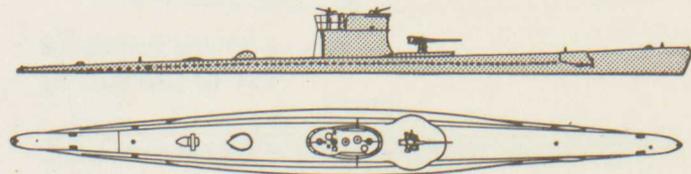
63. German "TYPE VII-C" CLASS (Snorkel operates in similar manner to that of "TYPE IX-C".)

221'



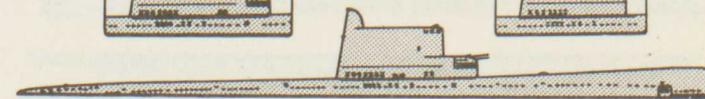
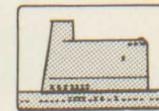
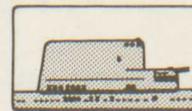
64. Italian TRITONE CLASS

207'



65. Italian ACCIAIO CLASS

197'



66. "Q" CLASS (Insets show conning tower variations.)

165'

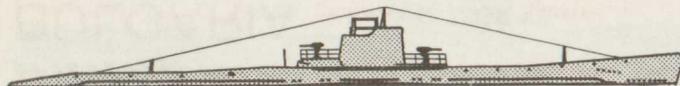
USSR (CONT'D)



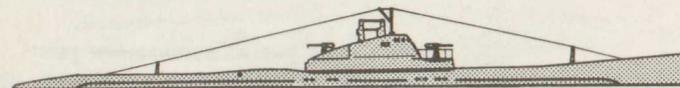
67. Estonian LEMBIT CLASS



68. "SHCH IV" CLASS



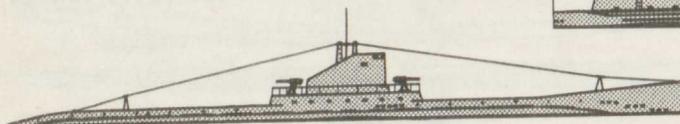
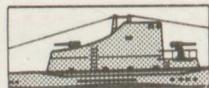
69. "SHCH IIIa" CLASS



70. "SHCH III" CLASS



71. "SHCH IIa" CLASS

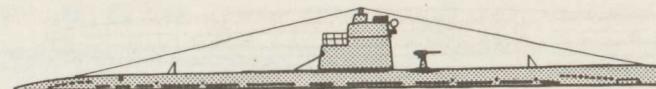


72. "SHCH II" CLASS (Inset shows conning tower variation.)



73. "SHCH I" CLASS

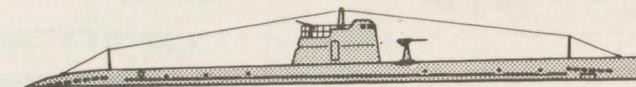
USSR (CONT'D)



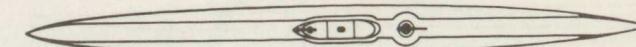
195'

74. "M-V" CLASS (Some may have deck gun removed.)

175'



200'



75. "M-IV" CLASS

146'

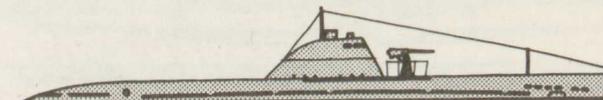
192'



76. "M-III" CLASS

146'

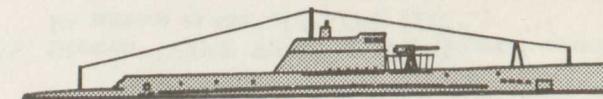
192'



77. "M-II" CLASS

124'

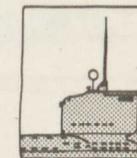
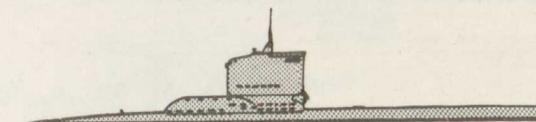
192'



78. "M-I" CLASS

124'

192'



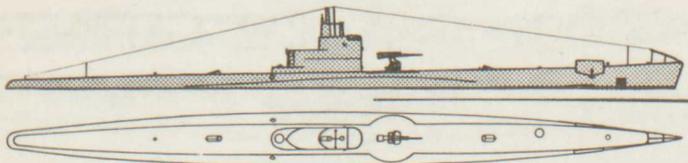
79. German "TYPE XXIII" CLASS (Inset shows RDF loop and periscope raised.)

114'

187'

Note: The remainder of this sighting guide is arranged alphabetically by country.

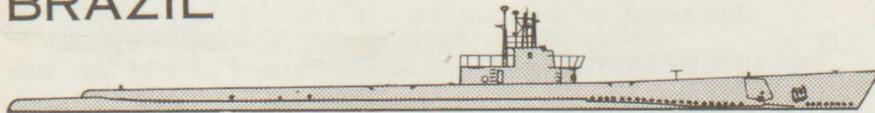
ARGENTINA



80. SALTA CLASS

227'

BRAZIL



81. U. S. GATO CLASS

312'



82. Italian PERLA CLASS (May have bow net cutters removed.)

198'

BULGARIA - Refer to USSR section.

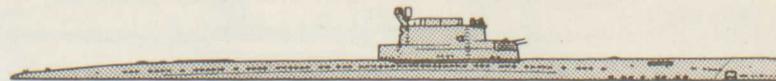
CHILE



83. British "O" CLASS

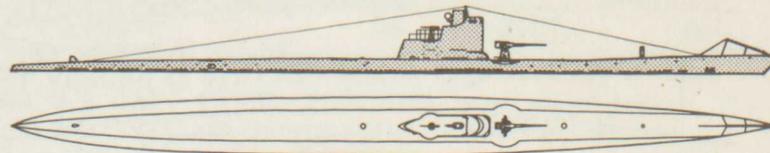
275'

CHINA, COMMUNIST



84. Soviet "W" CLASS

240'



85. Soviet "S-1" CLASS

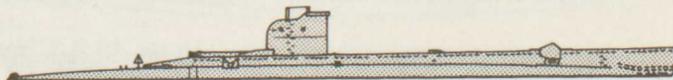
255'



86. Soviet "M-V" CLASS

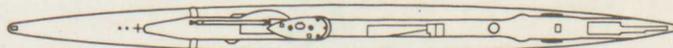
175'

DENMARK



87. British UNITY CLASS

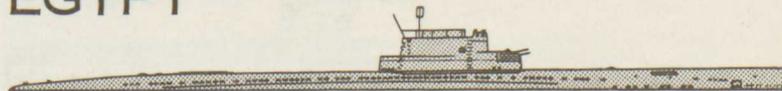
205'



88. DELFINEN CLASS - PROVISIONAL DRAWING

167'

EGYPT



89. Soviet "W" CLASS

240'

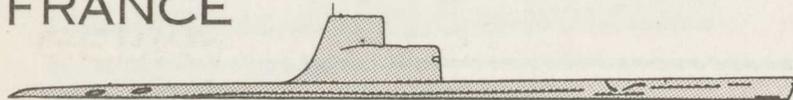
EGYPT (CONT'D)



90. Soviet "M-V" CLASS

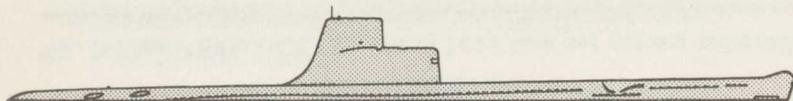
175'

FRANCE



91. NARVAL CLASS - 1st variation

256'



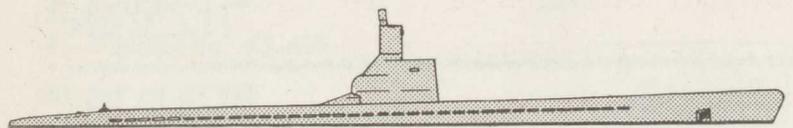
92. NARVAL CLASS - 2nd variation

256'



93. ROLAND MORILLOT (German "TYPE XXI" CLASS modified.)

252'



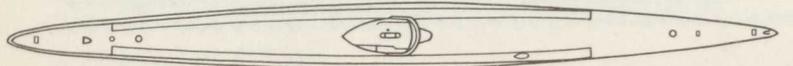
94. BOUAN (German "TYPE IX-C" modified.)

252'

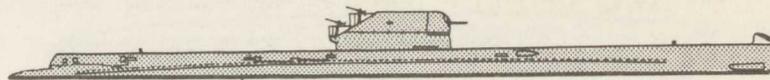


95. BLAISON (German "TYPE IX-B" modified.)

252'

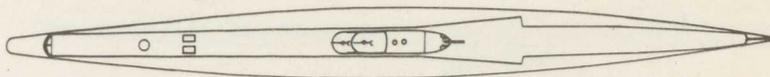


FRANCE (CONT'D)



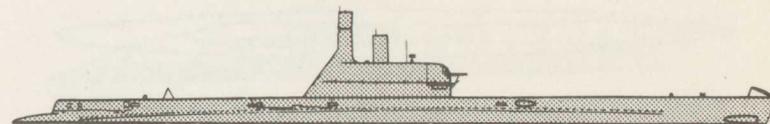
96. L'AURORE CLASS - 1st variation

241'



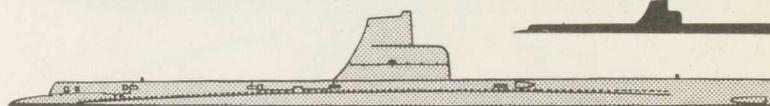
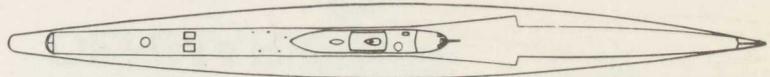
97. L'AURORE CLASS - 2nd variation

241'



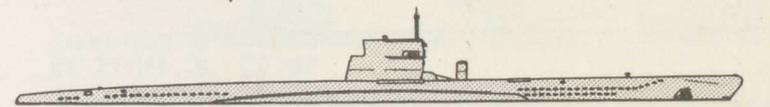
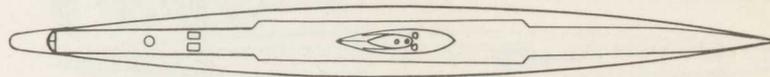
98. L'AURORE CLASS - 3rd variation

241'



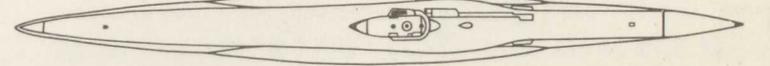
99. L'AURORE CLASS - 4th variation (Silhouette shows minor bow variation.)

241'

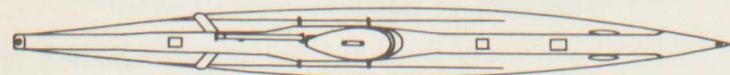
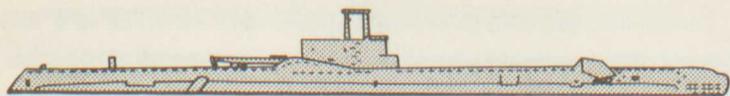


100. German "TYPE VII-C" modified.)

221'



FRANCE (CONT'D)



101. SIRENE (British "1940 S" CLASS)

217'



102. British "1940 S" CLASS - As modified for target and training duties.

217'



103. DAPHNE CLASS - PROVISIONAL DRAWING

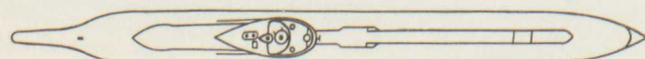
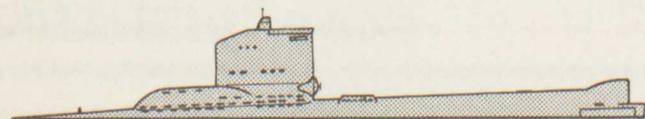
190'



104. ARETHUSE CLASS

162'

GERMANY, WEST



105. "TYPE XXIII" CLASS - Modified

114'

GREECE



106. U. S. GATO CLASS - POSEIDON, inset shows bow of AMFITRITI. (Silhouette shows snorkel and periscopes raised.)

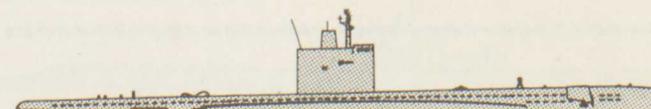
312'

ITALY



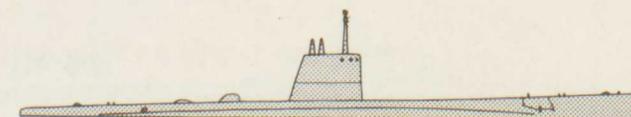
107. U. S. GATO (SS 212) CLASS - Modernized

308'



108. VORTICE (TRITONE CLASS modified)

207'



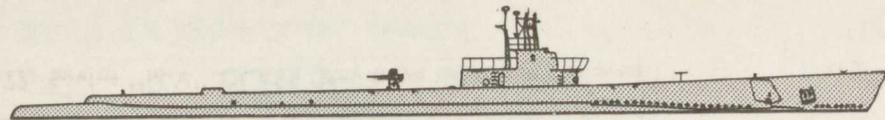
109. GIADA (ACCIAIO CLASS modified)

197'

Note: Italy also has the BARIO, a TRITONE CLASS submarine. Appearance is unknown.



JAPAN

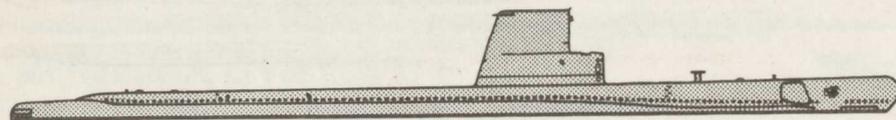


110. KUROSHIO (U. S. GATO CLASS)

312'

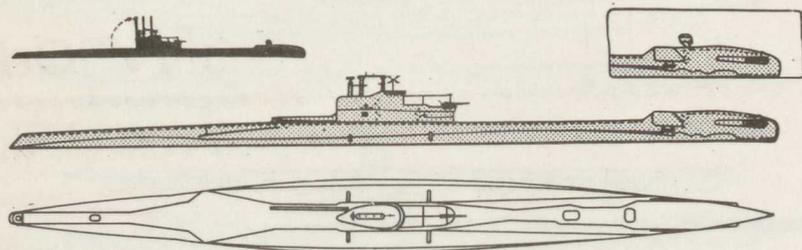
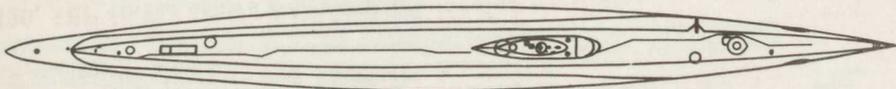


NETHERLANDS



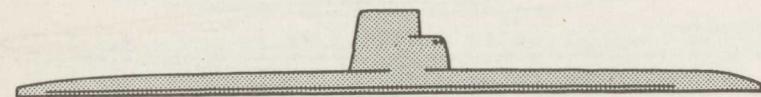
111. U. S. BALAO (SS 285) CLASS - Modernized

308'



112. British TRITON CLASS (Inset shows bow variation, silhouette shows snorkel and periscopes raised.)

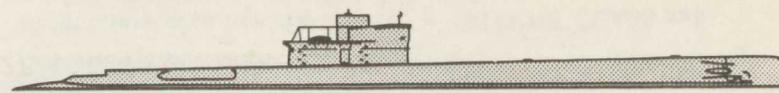
274'



113. DOLFIJN CLASS - PROVISIONAL DRAWING

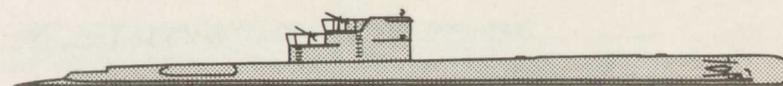
240'

NETHERLANDS (CONT'D)



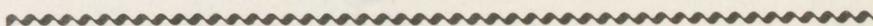
114. O-21

254'



115. O-27 (Fitted with German type conning tower.)

254'

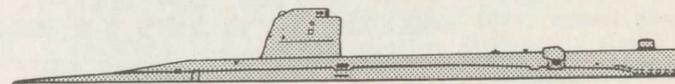
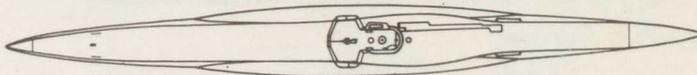


NORWAY



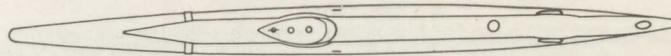
116. German "TYPE VII-C" CLASS

221'

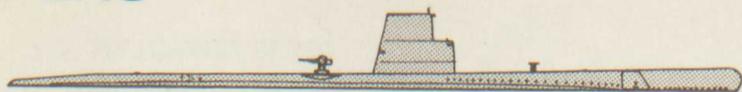


117. British UNITY CLASS - Modified

197'

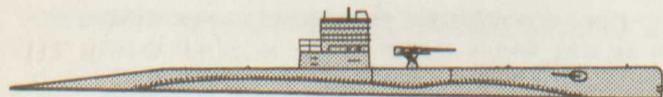


PERU



118. TIBURON CLASS

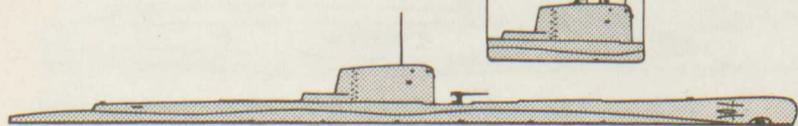
243'



119. "Modified R Boat" CLASS

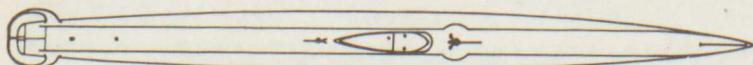
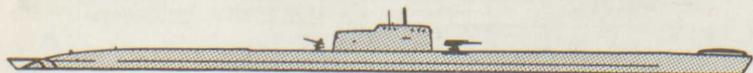
200'

POLAND



120. SEP (Inset shows AA mount in elevated position.)

275'



121. WILK CLASS

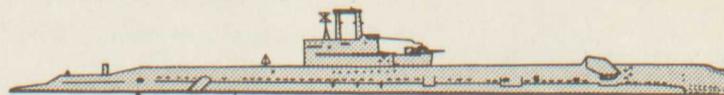
256'



122. Soviet "M-V" CLASS (May have deck gun removed.)

175'

PORTUGAL



123. British "1940 S" CLASS

217'

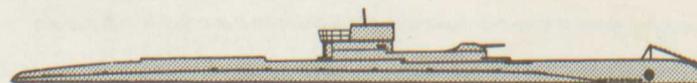


RUMANIA



124. MARSUINUL

190'

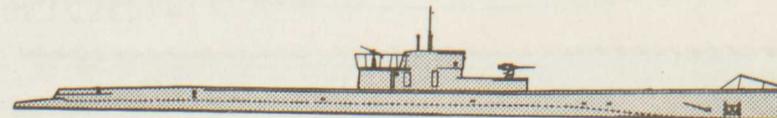


125. DELFINUL

225'

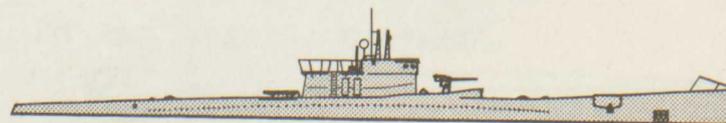
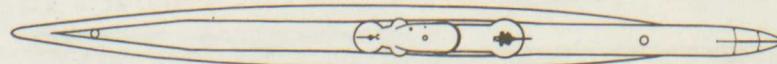


SPAIN



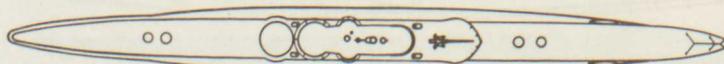
126. "D-1" CLASS

276'

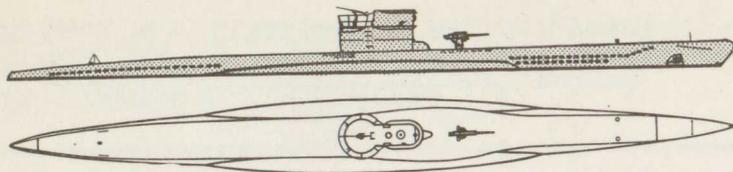


127. Italian ARCHIMEDE CLASS

231'



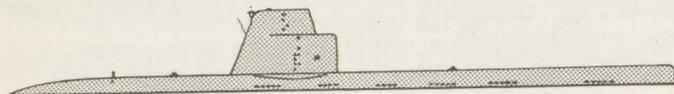
SPAIN (CONT'D)



128. G-7 (German "TYPE VII-C" CLASS)

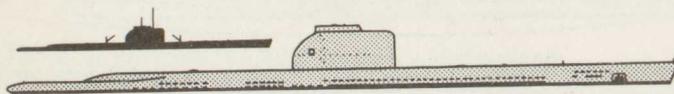
221'

SWEDEN



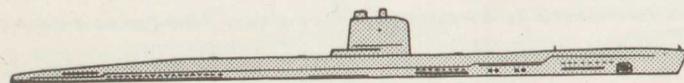
129. HAJEN CLASS

215'



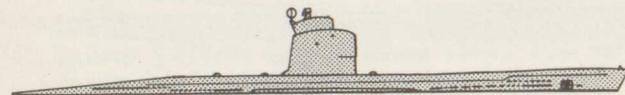
130. SJÖLEJONET CLASS (Silhouette shows periscopes raised.)

204'



131. NÄCKEN CLASS

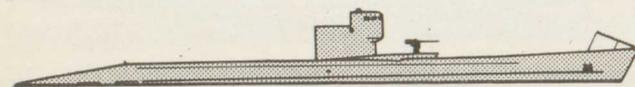
204'



132. "U" CLASS

164'

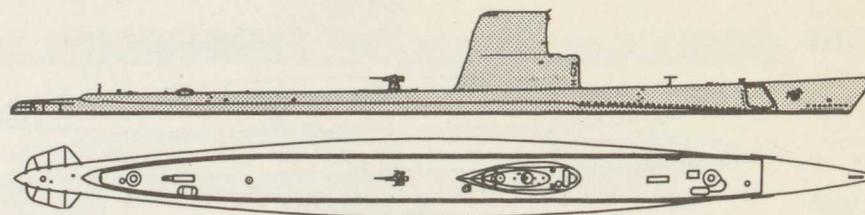
THAILAND



133. MATCHANU CLASS

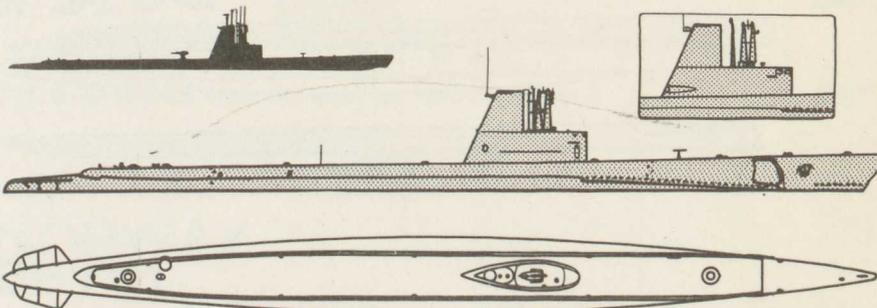
167'

TURKEY



134. U. S. "FLEET-TYPE SNORKEL"

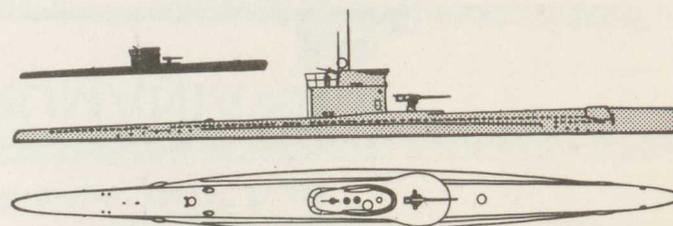
312'



135. U. S. GATO (SS 212) CLASS - Modernized
(Some units carry deck guns; arrangement varies, see silhouette. Inset shows conning tower variation.)

312'

YUGOSLAVIA

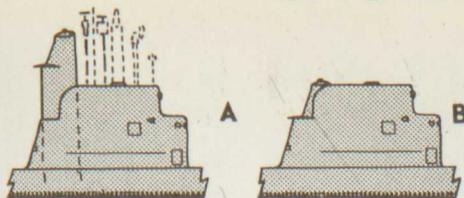


136. SAVA (Silhouette shows periscopes retracted.)

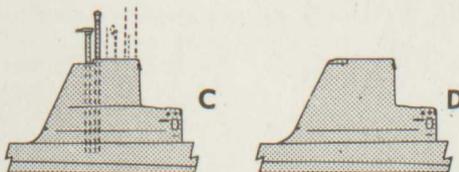
207'

SNORKEL TYPES

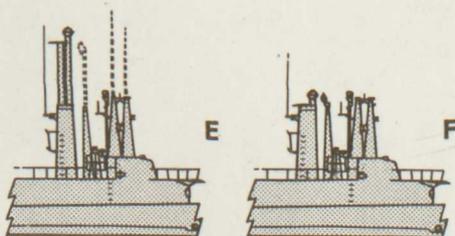
I. Telescopic snorkel of U. S. TANG CLASS. Shown in "run-out" position in A and secured in B.



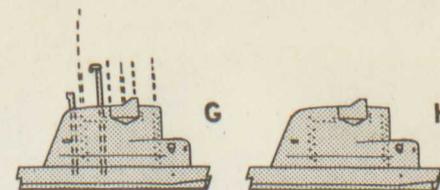
II. Telescopic snorkel of U. S. "GUPPY" type. Shown "run-out" in C and secured in D.



III. Telescopic snorkel fitted on U. S. submarines retaining "FLEET-TYPE" conning tower. "Run-out" in E, secured in F.



IV. Telescopic snorkel of British "T-CONVERSION" CLASS. "Run-out" in G, secured in H.



V. Folding snorkel of British "A" CLASS. Shown in upright or operating position in I and secured in J.



VI. Telescopic snorkel of ex-German "TYPE XXI" CLASS. "Run-out" in K and secured in L.



VII. Folding snorkel of ex-German "TYPE IX-C" CLASS. Shown in upright position in M and secured in a slot out into the deck in N.



LATE ADDENDA

UNITED STATES



137. SSN SKIPJACK - PROVISIONAL DRAWING

252'

An artist's conception of the SSN - 585 SKIPJACK is shown at the right.

