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(a) PROLOGUE

Returned from Alaskan Training Patrol to Pearl Harbor 4 November 1953. Conducted type training and furnished services in the Hawaiian area until 24 May 1954. Departed Pearl Harbor, T.H. 5 June 1954 for Yokosuka, Japan via Chichi Jima, Bonin Islands. Arrived Yokosuka on 19 June 1954 and reported to Commander Submarine Group, Western Pacific (CTG 96.9) for operational control. Completed five day availability at SRF, Yokosuka on 25 June 1954 and departed for U.S.S. CALAM third special patrol on that date.

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(b) NARRATIVE (All times ITEM).

1. All dives are routine dives unless otherwise specified.
2. Ship contacts made before and after the period spent in the patrol area are not specifically mentioned unless they affected CAMAN.

Friday, 25 June 1954

- 1530 - Underway from Berth One, U.S. Fleet Activities, Yokosuka, Japan in accordance with ComSubGru, WestPac Operation Order 15-54 of 4 June 1954 to conduct an undetected shipping surveillance patrol in Joint Zones 5 and 10. The missions: (a) Shipping surveillance; (b) provide early warning of impending attack; (c) readiness in event of emergency; and, (d) cold weather training.
- 1631 - Dived.
- 1953 - Surfaced.

Saturday, 26 June 1954

Throughout the day sea state was two with rain and low visibility in fog patches.

- 0718 - Dived.
- 1044 - Surfaced.
- 1200 - Position 36-42.2 N; 142-01.0 E.
- 1753 - Dived.
- 2026 - Surfaced.

Sunday, 27 June 1954

Throughout the day sea was calm with overcast sky and fog about one half of the time.

- 0913 - Dived.

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- 1200 - Position 41-00 N; 143-04.8E.
- 1326 - Surfaced.
- 1820 - Dived.
- 1853 - Surfaced.
- 2130 - Commenced passage of Tsugaru Strait in dense fog.

Monday, 28 June 1954

During the early morning fog and low visibility persisted, but at about 0900 weather cleared, visibility became unlimited. Found the Japan Sea calm.

- 0100 - Ship contact at 6,000 yds., held by SV radar, changed course and apparently attempted to intercept CALMAN in fog. Probable Japanese patrol vessel. Outran at 4 engine speed.
- 0300 - Passage of Tsugaru Strait completed.
- 1047 - Sighted U.S. Navy P2V-5, A/C contact #1, bearing 135° (T), range 5 miles; dived. Periscope observation while going deep showed aircraft overhead.
- 1200 - Position 41-47.1 N; 138-40.8 E.
- 1236 - Surfaced.
- 1505 - Sighted A/C contact #2, P2V-5, bearing 230° (T) very close, approaching low out of the sun for run on CALMAN. Dived.
- 1627 - Surfaced.
- 2239 - Entered Joint Zone 10. Set course 012° (T), for a morning diving point on the Soviet shipping lane.

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Tuesday, 29 June 1954

The sea during the day was calm. Excellent visibility prevailed until 2200, when dense fog set in.

- 0205 - Sighted ship contact #1, bearing 001° (T), range about 10 miles, showing one white light on estimated course 065° (T).
- 0210 - Sighted ship contact #2, bearing 022° (T), range 10 miles showing a mast-head light. Contact course 240° (T), speed 7.5 kts. Set course and speed to close.
- 0240 - Sighted light of ship contact #3, bearing 281° (T), range about 11 miles, eastbound.
- 0242 - Dived on track of contact #2, and commenced submerged approach for identification.
- 0258 - Closed contact #2 in the early twilight and identified as a group III Soviet freighter, probably MIKHAIL PRUNZE. The ship's artist, G.L. LEVTS, BMC, USN, made an excellent sketch that materially aided in identification.
- 0332 - Patrolling submerged; regained sight of ship contact #3, bearing 325° (T), range 9,500 yds. on course 070° (T), speed 10 kts. Sketched and identified a group IV engine - aft cargo type, of the ULIANA GRIGOROVA class.
- 0400 - Set course 065° (T) for the "Slot".
- 0403 - Sunrise.
- 1114 - Sighted aircraft contact #3, bearing 260° (T), range about 5 miles on a southwesterly course. Probably a U.S. B-26 on patrol.
- 1200 - Position 45-21.3 N; 139-27.5 E.
- 1230 - Surfaced to revitalize air and charge batteries.
- 1345 - Secured snorkeling.
- 1931 - Sunset.
- 1939 - Sighted ship contact #4, bearing 108° (T), distance about 8 miles, on course 245° (T), speed 10 kts. Closed and obtained sketch and sound recording. Ship identical to Russian freighter OKA or KUCHENDAI.
- 2104 - Surfaced.

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2105 - Ship contact #4 fired a single orange Very signal to starboard at range of about 6 miles.

For the rest of the night CALMAN patrolled the traffic lane north-eastward toward the "Slot", entering dense fog about 2200.

Wednesday, 30 June 1954

During the day wind and sea were rising with fog till 0500 when fog lifted. Visibility remained low due to haze.

0345 - Dived to conduct submerged patrol of "Slot".

0347 - Sunrise.

1055 - Sighted ship contact #5, bearing 194° (T), range 3.5 miles on course 055° (T), speed 12.5 kts. Closed and photographed. Identified as Russian transport ILICH.

1200 - Position 45-21.3 N; 139-27.5 E.

1452 - Commenced one hour charging and revitalizing snorkel period.

1930 - Sunset. Sighted ship contact #6, bearing 262° (T), range 10,800 yds. Closed, obtained sketch and sonar recording. Identified as Russian transport NORILSK or TOBOLSK, enroute La Perouse Strait.

2036 - Surfaced and headed north to patrol northern edge of Joint Zone 5, south of KAIBA TO.

2046 - Sighted ship contact #7 bearing 254° (T), range 12 miles on course 060° (T), speed 11.5 kts.

2100 - Dived. Closed ship contact #7 and obtained sonar signature of this large two masted ship with funnel and ships. Unidentified.

2137 - Surfaced and proceeded northward.

2255 - Sighted KAIBA TO light showing charted characteristics.

Thursday, 1 July 1954

Throughout most of the day visibility was good, sky overcast and sea state 2 to 3.

0000 - Patrolling near northern boundary of Joint Zone 5, south of KAIBA TO.

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- 0235 - Sighted ship contact #8, bearing 240° (T), range 8 miles, on course 035° (T), speed 13 kts. Commenced closing.
- 0254 - Dived and closed in the twilight. Obtained sketch and sonar recording. Identified as Russian transport JAKUTIA. ECH search with retractable mast gave results negative. (JEIC Report No. 7 of March 1954 refers.) (See section K)
- 0349 - Sunrise.
- 0500 - Sighted ship contact #9, bearing 170° (T), range 5 miles, on course 050° (T), speed 8.5 kts. Closed and obtained photograph and sonar recording. Appeared exactly similar to Russian freighter KHLBROS.
- 0936 - Sighted contact #9A, bearing 180° (T), range 5,000 yds. on course 090° (T), speed 9 kts. Sketched and identified as small Russian freighter exactly similar to ship contact #9 above.
- 1029 - Sighted ship contact #10, bearing 256° (T), range 5 miles, on course 085° (T), speed 10.5 kts. Closed and obtained sketch, photographs and sonar recording. Contact was engine - aft cargo type, identified as either ANGARA or VITIA.
- 1200 - Position: 45-44.2 N; 140-59 E.
- 1246 - Commenced one hour charging and revitalization snorkel period.
- 1650 - Sighted ship contact #11, bearing 271° (T), range about 8 miles, on course 090° (T), speed 8 kts. Closed, recorded screw noise, sketched and photographed. Identified as Russian freighter ALEXANDER PUSHKIN, with deck cargo of trucks forward.
- 1933 - Sunset.
- 2.33 - Surfaced.
- 2039 - While obtaining radar fix made ship contact #12 by radar bearing 160° (T), range 12 miles, eastward for La Perouse Strait.
- 2146 - Sighted KAITA TO light.
- 2230 - Dense fog set in.

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Friday, 2 July 1954

During this day the sea was calm and visibility varied from dense fog to excellent visibility with bright sunlight.

- 0010 - While obtaining a navigational fix obtained ship contact #13 by radar bearing 165° (T), range 7,500 yds. in dense fog. Second observation indicated target course 250° (T), speed 11 knts.
- 0315 - Dived to 125 ft. and commenced patrolling above layer, hovering and listening, forty miles west-southwest of the "slot".
- 0352 - Sunrise.
- 0828 - Fog lifted, commenced periscope patrol.
- 0921 - Sighted ship contact #14, bearing 299° (T), range 7,500 yds. on course 065° (T), speed 10 knts. Closed, recorded screw noises and photographed a Soviet liberty ship probably KRENETS PODOLSK.
- 1200 - Position 45-38 N; 140-13 E.
- 1205 - Commenced revitalizing snorkel period.
- 1223 - Secured from snorkeling.
- 1324 - Sighted ship contact #15 bearing 302° (T), range 7 miles on course 065° (T), speed 10 knts. Closed, sketched, photographed, and recorded. Observed Soviet type 38 cargo ship, identical to "RIGA".
- 1425 - Sighted ship contact #16 bearing 215° (T), range 5 miles on course 050° (T), speed 11 knts. Closed and obtained recording and photographs. Identified as large Russian transport "SIBIR".
- 1932 - Sunset.
- 2035 - Surfaced and set course for the Soviet shipping lane area in Joint Zone 10.
- 2042 - Momentary radar contact on ship contacts #17 and 18 during navigational radar sweep bearing 238° (T), range 52 miles ahead.
- 2321 - Dived, having sighted lights of ship contacts nos. 17 and 18 through fog patches at 10,000 yds. Closed, but unable to identify further in the darkness.

Saturday, 3 July 1954

During this day visibility variable, sea calm.

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- 0015 - Surfaced.
- 0317 - Dived. Reversed course to patrol toward "Slot".
- 0402 - Sunrise.
- 1106 - Commenced charging and revitalizing snorkel period.
- 1200 - Position 45-18 N; 139-33.2 E.
- 1241 - Secured snorkeling.
- 1415 - Sighted ship contact #19, bearing 087° (T), range 5.5 miles on course 245° (T), speed 10 kts. Closed, photographed and identified as Russian freighter PYATIGORSK.
- 1655 - Sighted ship contact #20 bearing 217° (T), range 6 miles on course 065° (T), speed 11 kts. Closed, photographed, and obtained sonar signature of Russian freighter PINSK.
- 1932 - Sunset.
- 2032 - Surfaced and set course for northeast corner of Joint Zone 5.
- 2048 - Detected ship contact #21 by radar bearing 095° (T), range 12.5 miles. Unidentified.
- 2315 - Sighted ship contact #22, bearing 093° (T), range 5 miles, west-bound. Unidentified transport type.

Sunday, 4 July 1954

During the day visibility was variable with fog patches; sea was calm.

- 0135 - Sighted small ship contact #23, bearing 016° (T), range 7 miles on course 110° (T), entering La Perouse Strait.
- 0150 - Sighted ship contact #24, bearing 003° (T), range 6 miles on course 110° (T), headed for Strait.
- 0156 - Sighted ship contact #25, bearing 088° (T), range 7 miles on course 270° (T), speed 9 kts. Set course to intercept.
- 0247 - Dived on track and turned to close. In early twilight closed to obtain sketch and sonar recording. Identified ship contact #25 as Russian engine-aft freighter LIMBINSK.

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- 0350 - Sunrise.
- 0700 - Commenced listening patrol at 100 feet in visibility reduced by fog.
- 0705 - Detected ship contact #26 by sonar. Ship passed by to northward on an easterly course, distant about 2 miles in the fog.
- 1200 - Position 45-39.5 N; 140-34.5 E.
- 1203 - Commenced charging and revitalizing snorkel period.
- 1405 - Secured snorkeling.
- 1427 - Sighted ship contact #27, bearing 241° (T), range 7 miles on course 090° (T), speed 11 kts. Closed and observed an engine-aft type naval auxiliary, with large numerals "623" on bow. This ship made four course changes of 10 to 15 degrees during the approach, indicating a possible shallow zigzag plan. Obtained photograph and sonar signature.
- 1633 - Sighted ship contact #28, bearing 204° (T), range 8.5 miles on course 045° (T), speed 9 kts. Closed and identified Russian liberty ship LIKILIL KUTUZOV. Obtained sonar signature and sketch.
- 1807 - Sighted ship contact #29, bearing 303° (T), range 7.5 miles on course 055° (T), speed 11 kts. Closed and observed a Soviet liberty ship similar in appearance to KRASNOGVARDEETS.
- 1932 - Sunset.
- 2024 - Surfaced. Set course for northern boundary of Joint Zone 5 to southward of KAIBA TŌ.
- 2240 - Sighted ship contact #30, bearing 102° (T), range 14 miles, entering La Perouse Strait eastbound.
- 2322 - Sighted ship contact #31, bearing 137° (T), range 10 miles on course 240° (T), speed 11.5 kts. Plan to end around and dive on track during early twilight to observe.
- 2330 - Observed KAIBA TŌ searchlight make one horizontal sweep, clockwise.

Monday, 5 July 1954

Throughout this day visibility was good, sky overcast, and sea increasing.

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- 0120 - Sighted ship contact #32, bearing 202° (T), range 10.5 miles on an easterly course.
- 0155 - Ship contact #31 changed course to 240° (T). Adjusted course to gain position on port bow, 7 miles ahead.
- 0301 - Sighted ship contact #33, bearing 265° (T), range 7.5 miles on course 055° (T), speed 8 kts.
- 0304 - Dived and crossed track of contact #31. Recorded sonar signature and sketched; identified this large Russian engines-aft freighter as SAKHILIN.
- 0342 - Commenced closing contact #33. Obtained sonar signature and observed a Russian engines-aft freighter of the ULIANA GIGLOVA class, probably IVAN ZELIMOV.
- 0359 - Sunrise.
- 1055 - Commenced snorkeling. Enroute western boundary of Joint Zone 10.
- 1200 - Position 45-28 N; 139-53.3 E.
- 1321 - Secured snorkeling.
- 1447 - Commenced snorkeling.
- 1933 - Sunset.
- 1935 - Secured snorkeling.
- 2030 - Surfaced.
- 2302 - Arrived western limit of Joint Zone 10. Commenced surface patrol to northward along boundary for high and low frequency ECU sweeps.

Tuesday, 6 July 1954

Throughout this day the sea was moderate to calm and visibility fair in haze, with overcast sky. Single ping soundings indicated the unreliability of the available bathymetric chart for navigation in the western part of Joint Zone 10 (see section E).

- 0102 - Sighted ship contact #34, bearing 337° (T), range 8 miles, on course 065° (T), speed 10.5 kts.

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- 0155 - Sighted ship contact #35, bearing 274° (T), range 8 miles on course 065° (T), speed 10.5 kts.
- 0314 - Dived to conduct submerged patrol northward along Siberian coast.
- 0420 - Sunrise.
- 0914 - Commenced snorkel charging and revitalization period.
- 1015 - Secured snorkeling.
- 1153 - While charging torpedo MK 23-3 in after torpedo room skid, suffered hydrogen explosion of torpedo battery. See section K, part B.
- 1200 - Position: 45-55 N; 138-26 E.
- 1211 - Commenced snorkeling to remove explosion fumes and smoke from boat.
- 1253 - Secured snorkeling.
- 1632 - Arrived at northwest corner of Joint Zone 10, having made a total of 4 BC intercepts along the western boundary of Joint Zone 10. Set a southeasterly course to return to the "Slot" and the focal area of La Force shipping.
- 1937 - Sunset.
- 2030 - Surfaced.

Wednesday, 7 July 1954

During this day visibility was excellent until evening twilight when fog patches set in. Sea state was up to three.

- 0311 - Dived 15 miles to southwest of "Slot" for submerged patrol.
- 0410 - Sighted ship contact #36, bearing 079° (T), range 12 miles, on course 261° (T), speed 11 kts. Sketched and recorded a group II Soviet freighter, similar to SOTSHL.
- 0413 - Sunrise.
- 0523 - Sighted ship contact #37, bearing 313° (T), range 5,000 yds, on course 080° (T), speed 12 kts. Identified a slack new arrival to the Soviet merchant fleet from Poland, the Russian, paired stack freighter STOLICA, or a sister ship. Photographed, recorded, and sketched.

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- 0655 - Sighted ship contact #38, bearing 270° (T), range 6.5 miles on course 086° (T), speed 8.5 kts. Closed and obtained sketch, photograph, and sonar recording. Observed a Group III, Type 33 freighter similar to KASHIRSTROI.
- 0704 - Sighted ship contact #39, bearing 061° (T), range 4 miles on course 265° (T), speed 9 kts. Closed, obtained recording and identified as a Russian BENEYS class tanker number 259.
- 0820 - Sighted ship contact #40, bearing 310° (T), range 5 miles on course 090° (T), speed 8 kts. Closed, photographed and obtained sonar recording. Identified as Russian freighter SAJKO.
- 1200 - Position 45-40 N; 140-46 E.
- 1248 - Commenced charging and revitalization snorkel period.
- 1348 - Secured snorkeling.
- 1930 - Sunset.
- 2027 - Surface.
- 2336 - Sighted ship contact #41, bearing 198° (T), range 7.5 miles. Tracked on course 065° (T), speed 11 kts.

Thursday, 8 July 1954

During the day the sky was overcast, visibility fair to good, sea state two.

- 0306 - Dived to conduct submerged barrier patrol across axis of "Slot".
- 0415 - Sunrise.
- 1200 - Position 45-42 N; 140-51 E.
- 1303 - Commenced charging and revitalizing snorkel period.
- 1403 - Secured snorkeling.
- 1630 - Sighted ship contact #42, bearing 120° (T), range 6 miles on course 245° (T), speed 10.5 kts. Closed and obtained photographs and sonar recording of a Russian engine-aft cargo ship similar to Refrigerator #2.
- 1929 - Sunset.

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- 2032 - Surfaced.
- 2035 - Sighted ship contact #43, bearing 028° (T), range 14,500 yds. on course 270° (T), speed 8 kts.
- 2101 - Dived near track and observed an unidentified merchantman go by. Obtained sonar signature.
- 2156 - Sighted light of ship contact #44, bearing 028° (T), range 5 miles. Tracked on course 270° (T), speed 6 kts. Commenced snorkeling in order to get going on battery charge while closing No. 44 in the flashlight.
- 2255 - Secured snorkeling in near zero visibility.
- 2312 - Surfaced.
- 2314 - Sighted ship contact #45, bearing 320° (T), range 6 miles, on course 190° (T), speed 9 kts, approaching restricted area to eastward.

Friday, 9 July 1954

During this day visibility was good. Sky was overcast with haze in the distance. Sea state 0-1. The day was spent patrolling across the shipping lane at the western edge of the "Slot".

- 0017 - Sighted ship contact #46, bearing 106° (T), range 6 miles on course 240° (T), speed 10 kts.
- 0034 - Sighted ship contact #47, bearing 240° (T), range 8 miles on course 068° (T), speed 9.5 kts. Commenced and around.
- 0124 - Sighted ship contact #48, bearing 057° (T), range 9 miles on course 245° (T), speed 7 kts.
- 0206 - Sighted ship contact #49, bearing 053° (T), range 7 miles on course 255° (T), steering erratic, speed variable (5-8 kts.). Obtained sonar signature.
- 0224 - Broke off contact #48 and resumed approach on #49.
- 0244 - Dived. Closed in early morning twilight and identified #49 as the Russian freighter *ROSLIN*. Obtained sketch and sonar recording. This old coal burner was apparently having engine trouble.
- 0355 - Sunrise.

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- 1200 - Position 45-41.3 N; 140-14.5 E.
- 1237 - Commenced 20 minute revitalizing snorkel period in calm sea.
- 1351 - Sighted ship contact #50, bearing 093° (T), range 4.5 miles on course 245° (T), speed 9.5 kts. Closed, sketched and identified as small Russian engine-aft tanker, UFA.
- 1929 - Sunset.
- 2014 - Surfaced. Headed for northern boundary of Joint Zone 5, south of KAJIBA TO.
- 2321 - Sighted three flashes similar to gun-fire, following a horizontal search light sweep on KAJIBA TO. Observed several searchlight sweeps during the evening.

Saturday, 10 July 1954

During this day the sky was overcast, sea state three. Visibility was good.

- 0034 - Sighted horizontal searchlight beam bearing 080° (T), trained southward from SAKHALIN.
- 0127 - Sighted ship contact #51, bearing 256° (T), range 13 miles, on course 065° (T), speed 9.5 kts.
- 0227 - Sighted ship contact #52, bearing 074° (T), range 7.5 miles on course 270° (T), speed 9 kts.
- 0245 - Dived east of "Slot" and closed ship contact #51; obtained sketch and sewer signature of a Russian liberty ship.
- 0353 - Sunrise.
- 0400 - Closed ship contact #52. Sketched and recorded a Russian Group II, Type 23 freighter.
- 0432 - Sighted ship contact #53, bearing 280° (T), range 5.2 miles on course 085° (T), speed 12.5 kts. Closed and obtained sketch of a Russian GLEB USPENSKI class freighter-transport.
- 0445 - While closing ship contact #53 for identification, sighted ship contact #54, bearing 195° (T), estimated range 6 miles on approximate course 090° (T). This large Russian transport was easily identified as JAKUTLA, earlier observed as contact no. 8.

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- 0731 - Sighted ship contact #55, bearing 306° (T), range 7 miles on course 090° (T), speed 12 kts. Closed and obtained photographs and sonar signature of Russian transport ALEXANDER IOZHAIISKY.
- 1200 - Position 45-47 N; 140-25 E.
- 1247 - Commenced charging and revitalizing snorkel period in state three sea.
- 1553 - Secured snorkeling.
- 1650 - Sighted ship contact #56, bearing 078° (T), range 12 miles, course 285° , speed 10.5 kts. Closed and identified as Russian DNESTR class freighter-transport. Photographed, sketched and recorded.
- 1927 - Sunset.
- 2030 - Surfaced.
- 2039 - Sighted ship contact #57, bearing 093° (T), range 12 miles on course 275° (T), speed 10 kts.
- 2335 - Searchlight on KALBA T0 observed to make first of many horizontal sweeps of the evening.

Sunday, 11 July 1954

On this day, visibility was excellent, sky overcast with sun breaking through in the afternoon. Sea state was 1-2 till 0700 then rose to 3. The day was spent running to the northeast corner of the area thence back to the lane southwest of the "Slot" during the hours of darkness. The submerged patrol was conducted on the shipping lane southwest of the "Slot".

- 0025 - Sighted ship contact #53, bearing 307° (T), range 9 miles on course 090° (T), speed 8 kts.
- 0307 - Dived.
- 0402 - Sunrise.
- 0926 - Sighted ship contact #59, bearing 062° (T), range 15 miles on course 240° (T), speed 10 kts. Closed and obtained photographs and sonar signature of the Russian freighter UGLITS.

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- 1127 - Sighted ship contact #60, bearing 200° (T), range 10.5 miles on course 245° (T), speed 10 knts. Closed and obtained photographs of the large Russian transport ASIA.
- 1200 - Position 45-40 N; 140-32 E.
- 1201 - Sighted ship contact #61, bearing 164° (T), over the hill at 9 miles, on southwesterly course.
- 1317 - Commenced charging and revitalizing snorkel period.
- 1419 - Secured snorkeling.
- 1517 - Sighted ship contact #62, bearing 044° (T), range 6 miles on course 235° (T), speed 8 knts. Closed and obtained photograph, sketch and sonar signature of a group II Russian freighter identical to KAZAN.
- 1927 - Sunset.
- 1950 - Sighted ship contact #63, bearing 152° (T), range 8 miles, on course 245° (T), speed 10 knts.
- 2014 - Heard possible CW signals on JT sonar, emanating from direction of ship contact #63.
- 2029 - Surfaced.
- 2036 - Sighted ship contact #64, bearing 257° (T), range 8 miles on course 070° (T), speed 10 knts. Set course to west-southwest in an effort to relocate and intercept ship contact #63 for further morning observations. Unable to effect end around due to considerations of visibility, speed differential and limited period of darkness.
- 2350 - Sighted ship contact #65, bearing 355° (T), range 10 miles. Tracked on course 090° (T), speed 9 knts.

Monday, 12 July 1954

On this day the sky was overcast but visibility was excellent and sea diminished from state 3 to state 1. During the early morning hours of darkness ran to eastern boundary of Joint Zone 5. Dived and patrolled across shipping lane during daylight.

- 0034 - Sighted ship contact #66, bearing 078° (T), range 7 miles, tracked on course 245° (T), speed 10 knts. A transport type was indicated by extensive cabin lighting.

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- 0035 - Sighted ship contact #67, bearing 081° (T), range 7.5 miles on course 245° (T), speed 10 kts.
- 0204 - Sighted ship contact #68, bearing 289° (T), range 11 miles on course 090° (T), speed 10.5 kts.
- 0259 - Dived and closed contact #65. Obtained sketch and sonar recording of an engines aft Russian freighter identical to NAVOSHAKTINSE. Observed several dump trucks among deck cargo.
- 0340 - Sighted ship contact #69, bearing 080° (T), range 11 miles on course 270° (T), speed 11 kts. Closed a Russian radar equipped freighter, similar to KASHIRSKOI, and identical to previous contact #38. Sketched and recorded.
- 0450 - Reached CPA 1070 yds. on contact #68. Sketched and recorded Russian liberty DEKABRIST. This new looking ship had considerable deck cargo visible, including two large landing craft and one large truck.
- 1200 - Position 45-40 N; 149-09 E.
- 1242 - Commenced charging and revitalizing snorkel period.
- 1325 - Sighted ship contact #70, bearing 359° (T), range 10 miles on course 090° (T), speed 11 kts.
- 1409 - Secured snorkeling.
- 1730 - Sighted ship contact #71, bearing 234° (T), range 7.5 miles on course 055° (T), speed 9 kts. Closed, photographed and recorded the Russian engines-aft freighter PAVLADOR.
- 1926 - Sunset.
- 2029 - Surfaced.
- 2048 - Sighted ship contact #72, bearing 102° (T), range 10 miles, on course 270° (T), speed 9 kts.
- 2110 - Sighted ship contact #73, bearing 079° (T) in the distance on an easterly course.
- 2210 - Sighted ship contact #74, bearing 140° (T), on course 270° (T), speed 9.5 kts.
- 2225 - KLIBA T \bar{O} searchlight became active for about 40 minutes.

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Tuesday, 13 July 1954

During this day the sky was overcast, visibility was good and the sea very calm.

- 0026 - Sighted ship contact #75, bearing 240° (T), range 8 miles, on course 060° (T), speed 9.5 kts.
- 0108 - Sighted ship contact #76, bearing 267° (T), range 10 miles on course 075° (T), speed 5.5 kts.
- 0308 - Dived.
- 0404 - Sunrise.
- 1106 - Sighted ship contact #77, bearing 060° (T), range 9 miles on course 230° (T), speed 10 kts. Closed, obtained photographs and sonar recording of Russian freighter BASKUNTSHAK.
- 1200 - Position 45-46 N; 140-50 E.
- 1207 - Sighted ship contact #78, bearing 160° (T), range 5 miles on course 270° (T), speed 10 kts. Closed, obtained photographs of a Russian freighter, probably OKHTA.
- 1309 - Sighted ship contact #79, bearing 160° (T), range 3 miles on course 250° (T), speed 10.5 kts. Closed and obtained photographs of an unidentified Russian liberty.
- 1336 - Sighted ship contact #80, bearing 036° (T), range 6 miles on course 240° (T), speed 12 kts. Closed, obtained sonar recording and photographed. Identified Russian transport ILICH on return trip. (See also ship contact #5)
- 1446 - Commenced one hour charging and revitalizing snorkel period.
- 1758 - Sighted ship contact #81, bearing 214° (T), range 7.5 miles on course 075° (T), speed 12 kts. Closed, photographed, and identified transport VLATCHESLAV CLOTOV.
- 1915 - Sighted ship contact #82, bearing 094° (T), range 6.5 miles on course 260° (T), speed 11 kts. Closed and obtained a star signature of Russian liberty BUCHAN.
- 1923 - Sunset.
- 2031 - Surfaced.

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2242 - KAIBA T \bar{O} searchlight active.

2300 - Sighted ship contact #83, bearing 206 $^{\circ}$ (T), range 8 miles on an easterly course.

Wednesday, 14 July 1954

During this day the sky was overcast, visibility good till mid afternoon haze set in, sea state 1-2.

0024 - Sighted ship contact #84, bearing 237 $^{\circ}$ (T), range 9 miles on course 060 $^{\circ}$ (T), speed 10 kts.

0302 - Sighted ship contact #85, bearing 270 $^{\circ}$ (T), range 7 miles on course 090 $^{\circ}$ (T), speed 8.5 kts.

0315 - Dived and continued closing #85. Obtained sketch and sonar signature of Russian freighter KALORNIKA or KALCHADAL.

0407 - Sunrise.

1118 - Sighted ship contact #86, bearing 017 $^{\circ}$ (T) in the distance. Lost contact in haze after one look.

1200 - Position 45-47 N; 140-44 E.

1405 - Sighted ship contact #87, bearing 140 $^{\circ}$ (T), range 4 miles on course 254 $^{\circ}$ (T), speed 7 kts. Closed, photographed and obtained sonar signature of a ULLMAN GROLOVA class cargo ship.

1923 - Sunset.

2034 - Surfaced.

Thursday, 15 July 1954

During this day the sky was overcast. Visibility was variable from 3 to 12 miles and sea state 1 to 2.

0120 - Sighted ship contact #88, bearing 105 $^{\circ}$ (T), range 3.5 miles, at limit of visibility, on course 249 $^{\circ}$ (T), speed 9 kts.

0328 - Dived to conduct barrier patrol at eastern edge of "Slot".

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- 0406 - Sunrise.
- 1200 - Position 45-49 N; 141-02 E.
- 1224 - Commenced snorkel charging and revitalizing period.
- 1325 - Secured snorkeling.
- 1409 - Sighted ship contact #89, bearing 141° (T), range 4 miles on course 270° (T), speed 9 kts. Closed, sketched and obtained sonar recording of a Russian engine-aft tanker of KEMETS class, previously sighted as contact #39.
- 1920 - Sunset.
- 1932 - Sighted ship contact #90, bearing 153° (T), range 4 miles, on course 265° (T), speed 7.5 kts. Closed in late twilight and observed Russian tanker of the LEXIL GORNI class. Sketched and recorded.
- 2053 - Surfaced.
- 2102 - SV radar detected ship contact #91 while getting a navigational position, bearing 162° (T) at 7.3 miles on course 268° (T), speed 7.5 kts.

Friday, 16 July 1954

During this day visibility varied widely from dense pre dawn fog to excellent at noon. Sea state 0 at midnight increased to a choppy force 1-2 as the day wore on. The sky was overcast. Submerged patrol was conducted in the vicinity of the western half of the "Slot".

- 0013 - Sighted ship contact #92, bearing 233° (T), range 6.5 miles on course 068° (T), speed 11 kts.
- 0025 - Dived on track of #92, which had no lights visible other than running lights. Sonar signature and sketch were obtained of a probable naval auxiliary similar to L.DOBa. Observed definite rotating parabolic radar antenna at 350 yds. range, but subsequent ECA mast observations detected no radar emissions. (See section K)
- 0119 - Surfaced.
- 0335 - Dived and commenced sonar patrol at 100 feet in fog.
- 0557 - Commenced patrolling at periscope depth in improved visibility.
- 1200 - Position 45-47 N; 140-46 E.

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- 1220 - Commenced one hour charging and revitalizing snorkel period.
- 1455 - Sighted ship contact #93, bearing 108° (T), range 5,000 yds. on course 260° (T), speed 9 kts. Closed and identified a small Russian tanker GIDRODOG by name.
- 1924 - Sunset.
- 2011 - Sighted stern light of ship contact #94, bearing 228° (T), range 4.5 miles on a westerly course.
- 2028 - Surfaced. On investigation found ECU mast flooded and the AN/371 antenna reading a zero ground. This would explain the slim results to date with the SPR-2 intercept receiver (1000-3100 mc range). See section K.

Saturday, 17 July 1954

During the day visibility was fair to good, the sky overcast and sea state 1 to 2. Patrolled to eastward of the "Slot".

- 0302 - While obtaining radar fix detected ship contact #95, bearing 216° (T), range 11,100 yds. on course 090° (T), speed 10.5 kts. Commenced closing.
- 0324 - Dived and continued approach on ship contact #95. Observed a possible variation of the GLEB USPENSKI class Russian freighter. Obtained sketch and sonar signature.
- 0406 - Sunrise.
- 0443 - JT sonar detected ship contact #96, bearing 253° (T), range approximately 4 miles, on course 100° (T), speed 10.5 kts. Closed and identified as Russian freighter DMITRY LAPTEV. Obtained sketch and sonar signature.
- 0630 - Sighted ship contact #97, bearing 212° (T), range 3.5 miles on course 067° (T), speed 5.5 kts. Closed and observed the Russian three masted schooner KOLETA, underway under power. Obtained sketch and sonar signature.
- 1200 - Position 45-19 N; 141-47 E.
- 1235 - Commenced one hour snorkel charging and revitalizing period.
- 1627 - Sighted ship contact #98, bearing 082° (T), range 6 miles on course 090° (T), speed 10 kts.

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1915 - Sunset.

2034 - Surfaced and sighted ship contact #99, bearing 286° (T), range 6 miles on course 090° (T), speed 10 kts.

Sunday, 18 July 1954

During the day the sky was overcast and there was a heavy haze. Sea state was 0 to 1. A clear atmosphere and brilliant moonlight brought the first excellent night visibility of the patrol.

0214 - Sighted ship contact #100, bearing 210° (T), range 3 miles in haze; course 065° (T), speed 7.5 kts. Commenced end around.

0326 - Dived on track of ship contact #100. Made sonar recording and sketched a Russian freighter similar to SEATURSTROI.

0402 - Sunrise.

0447 - Sighted ship contact #101, bearing 183° (T), range 2.5 miles on course 062° (T), speed 8 kts. Closed and obtained sonar signature and sketch of Russian freighter of CHEREHOVO class.

0540 - Sighted ship contact #102, bearing 177° (T), range 5 miles on course 070° (T), speed 8.5 kts. Closed, sketched, and identified Russian tanker of PMIR class.

1039 - Sighted ship contact #103, bearing 277° (T), range 5 miles on course 080° (T), speed 12 kts. Closed and photographed Russian transport TGBOLSK.

1150 - Commenced one hour snorkel charging and revitalizing period.

1200 - Position 45-49 N; 141-08 E.

1921 - Sunset.

2016 - Sighted ship contact #104, bearing 180° (T), range 10 miles on course 045° (T), speed 14.5 kts.

2033 - Surfaced.

2113 - Dived and continued to close ship contact #104. Sketched and recorded screw noises of large Russian transport JAKUTIA, previously sighted as contacts #8 and #54.

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- 2136 - Sighted ship contact #105, #105A, and #106, bearing 082° (T), range 5 miles on course 293° (T), speed 6 kts. Tug and tow with escort. Maintained contact throughout night.
- 2254 - Sighted ship contact #107, bearing 126° (T), range 4 miles on course 260° (T), speed 13 kts. Closed and observed and obtained sonar signature of a possible transport type.
- 2255 - Recorded pinging on JT at bearing of ship contact #107. Ping interval 5 seconds. Probable fathometer.
- 2353 - Commenced snorkeling.

Monday, 19 July 1954

During this day the sky was overcast with heavy to light mist, which closed during the day. Visibility was fair just before sunrise and subsequently excellent. Darkness brought the second clear moonlit night of the patrol.

- 0015 - Secured snorkeling.
- 0038 - Sighted ship contact #106, bearing 060° (T), range 4 miles on course 270° (T), speed 10.5 kts. Closed, obtained sonar signature and sketched a freighter similar in appearance to KINGISSOFF or KOKOLOLSK.
- 0100 - Surfaced to continue end around on ship contacts #105, #105A and #106. Enroute southwest corner of Joint Zone 10 for final area sweep prior to complying with ComSubGrpMesPac submarine notice for departure.
- 0147 - Sighted ship contact #109, bearing 202° (T), range 7 miles on an easterly course. Believed to be a transport type.
- 0327 - Dived and commenced submerged approach of ship contacts #105, 105A and 106.
- 0415 - Sunrise.
- 0450 - In a glassy calm sea, identified ship contact #105 as the Soviet Naval auxiliary "A405". This large tug had in tow stern first the Ex U.S. Admirable class minesweeper "RUSSON", complete with added kingposts on forecastle. RUSSON in obviously deplorable material condition from her poor state of external preservation, but manned and lighted inside. Looks like one Uncle Sam is about to get back. Tug and tow being accompanied by ULLMAN GROLOVA class cargo vessel BARMLUL. Photographed.
- 0648 - Heard two sharp distinct pings, probably echo sounder of ship contact #105 or #106.

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- 1034 - Commenced snorkeling to revitalize.
- 1050 - Secured snorkeling.
- 1200 - Position 45-29 N; 140-49 E.
- 1922 - Sunset.
- 2013 - Surfaced.
- 2042 - Sighted ship contact #110, bearing 235° (T), range 6 miles on base course 065° (T), speed 10.5 kts. At a range of 6 miles this contact blinked its starboard side light several times. At 5 miles the contact alternately blinked its range and masthead lights several times.
- 2058 - Dived and closed contact; observed an engines aft type.
- 2137 - Surfaced.
- 2311 - Sighted ship contact #111, bearing 240° (T), range 6 miles on course 040° (T), speed 9.5 kts.
- 2320 - Dived. Closed and sketched an ISHER class freighter.

Tuesday, 20 July 1954

During this day sky was clear and a low haze cleared shortly after sunrise. Sea was calm with a slight swell. Patrolled along shipping lane toward southwestern boundary of Joint Zone 10 thence southward to depart area.

- 0023 - Surfaced.
- 0150 - Intercepted three radar sweeps on ECI. (See intercept MAN, ECI report).
- 0201 - Sighted ship contact #112, bearing 241° (T), range 7 miles on course 058° (T), speed 8 kts.
- 0223 - Dived and closed contact #112, a Group II freighter.
- 0303 - Sighted ship contact #113, bearing 311° (T), range 2.5 miles on course 060° (T), speed 12.5 kts, all lights dimmed. Identified as Russian transport SIBIR.
- 0416 - Sunrise.
- 1019 - Sighted ship contact #114, bearing 093° (T), range 7 miles on course 240° (T), speed 13 kts. Closed to observe Russian transport ALEXANDER POZHARSKIY, previously seen as ship contact #55. Photographed.
- 1200 - Position 44-54 N; 138-38 E.

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- 1240 - Commenced one hour charging and revitalizing snorkel period.
- 1309 - Received ComSubGru, MosFac Serial #2.
- 1345 - Secured snorkeling.
- 1927 - Sunset.
- 2014 - Sighted ship contact #115, bearing 090°, range 2 miles on course 257° (T), speed 9.5 kts. Closed and sketched a group II freighter-transport.
- 2109 - Surfaced.
- 2113 - Sighted ship contact #116, bearing 161° (T), range 7 miles, on course 050° (T), speed 10 kts.

Wednesday, 21 July 1954

During the day visibility was excellent, sea moderate.

- 0020 - Departed Joint Zone 10 and set course for Tsugaru Strait.
- 0431 - Sunrise.
- 0753 - Dived.
- 0820 - Commenced snorkeling on two engines. Visibility too good for surface running, sea almost perfect for snorkeling.
- 1050 - Secured snorkeling.
- 1114 - Resumed snorkeling.
- 1200 - Position 42-01 N; 138-40 E.
- 1930 - Secured snorkeling.
- 2036 - Surfaced.
- 2250 - Commenced transit of Tsugaru Strait.

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Thursday, 22 July 1954

Visibility was limited throughout the day by low overcast.

- 0300 - Ran through a particularly dense group of shipping of all sizes. One with a long engines-aft silhouette signalled "AA's" in GAILAN's direction, which was ignored.
- 0340 - Completed transit of Tsugaru Strait, having maneuvered considerably in effort to evade two ships, three large ferries and numerous small ships and fishermen while running darkened ship at 15 knot SOA on the surface as required.

Friday, 23 July 1954

Throughout the day visibility was excellent, sky partly cloudy.

- 1103 - Dived.
- 1200 - Position 36-37 N; 141-43 E.
- 1225 - Commenced snorkeling.
- 1327 - Secured snorkeling.
- 1342 - Surfaced.
- 1846 - Sunset.

Saturday, 24 July 1954

- 0447 - Sunrise.
- 0722 - Moored berth 1, Yokosuka, Japan.

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ENCLOSURE (1)

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