

On July 4, Admiral Bayly (Queenstown) suggested that it would be very convenient to have the orders respecting approach routes for merchant ships "as they stood at that date" issued to all concerned,¹ and accordingly on August 9 a consolidated copy of Approach Route orders was sent to all Home ports. This led to a further revision and on August 19, a complete redraft was sent to all officers abroad in which the system of rendezvous, changed periodically, already adopted on Approach Route B (West of Ireland), was applied to Approach Route A (South-West) and C (North of Ireland).² Four more routes were added: G and H for Scillies; I for Fastnet and J for Tory Island.

259. Approach Route A, July.—The old Approach Route (*i.e.*, to cross 17° W. between 45° N. and 48° N. and 10° W. between 48° N. and 49° 30' N., make south coast of Scillies at dawn and pass close south of Wolf Rock), altered on June 21 (*see supra*) would be the one in the hands of masters who sailed from South Atlantic ports before that date. Only one ship was sunk on this route in July, *viz.*, the British s.s. *Condesa*, 8,537 tons, from Monte Video to Falmouth, on July 7 at 9.15 p.m. in 49° 23' N., 9° W., by *U.84*. The *Condesa* was being escorted by H.M.S. *Lizard*.

260. Approach Route A (New).—*U.87* and *U.48* were working on this route from July 11 to 15, and two homeward bound ships were sunk by *U.48*—the British s.s. *Exford*, 5,886 tons, on July 14, and the British s.s. *Torcello*, 2,929 tons, on July 15. There were also two attacks, which failed. On July 12, *U.87* fired two torpedoes, which missed, at the British s.s. *Tredegar Hall*, 3,648 tons, Montreal to London, and then attacked her with gunfire; the same day she attacked with gunfire the Italian s.s. *Onesta*, 2,660 tons, from Valencia to Newcastle; both ships escaped.

On Approach Route E (to the Bay) only one British ship was sunk, on July 15, the s.s. *Trelissick*, 4,168 tons, from Boston to Bordeaux by *U.C.72*. *U.C.72* was there from July 7 to 15 and sank on July 7, the American s.v. *Mary W. Bowen*, 2,100 tons, from New York to Havre and the American s.s. *Massapequa*, 3,198 tons, from New York to Nantes; on July 8 the Danish s.s. *M. I. Mandal*, 1,199 tons, and the French s.v. *Cambronne*, 1,863 tons, and on July 9 the French s.v. *Ceres*, 296 tons.

261. Approach Route B, July.—On Approach Route B on the new route from rendezvous Alpha (53° 24' N., 15° 10' W., to Blaskets), in force from June 30–July 4 no ships were sunk; on the route from

¹ *Idem*, p. 121.

² Telegram, August 19/2052, p. 184. A printed edition was issued in September, M.011012/1917, in Case 636, Vol. I, p. 240.

rendezvous Gamma (51° 52' N., 16° W., then to Skelligs) in force from July 5 to 8, one ship was sunk, *viz.*, the s.s. *Valetta*, 5,871 tons, Montreal to Dublin, on July 8 by *U.87*. She had no escort, though the U.S. destroyer *Perkins* was in sight 2 miles ahead. The route from rendezvous Epsilon (50° 13' N., 15° 36' W., then to Mizen Head) in force from July 9 to 16, suffered a severe attack from *U.49* and *U.45*. Five ships were sunk and two attacked, *viz.*, on July 15 the British s.s. *Mariston*, 2,908 tons, Almeria to Glasgow, was sunk by *U.45*; on July 16 the Italian s.s. *Lamia L.*, 2,220 tons, Bougie to Glasgow by *U.49*; on July 16 the s.s. *Ribston*, 3,372 tons, Manilla to Glasgow by *U.45*; on July 17 the *Haworth*, 4,456 tons, Philadelphia to Avonmouth by *U.45*. The s.s. *Tamele*, 3,700 tons, Dakar to Liverpool, was missed by a torpedo from *U.49* at 5.45 a.m. July 16, and sunk at 9 p.m. by *U.87*. All these ships were sailing independently without escorts. (*See Plan 14.*)

On the route from rendezvous Zeta (49° 28' N., 15° W., to the Fastnet) in force from July 17 to 22, there were two ships sunk on July 21, the s.s. *Paddington*, 5,084 tons, from Genoa to Glasgow, by *U.96* and the s.s. *Dafila*, 1,745 tons, Gibraltar to Liverpool, by *U.45*. The s.s. *Nevisbrook*, 3,140 tons, Algeria to Barrow, sunk on July 20 by *U.45*, seems to have been off this route.

On the route from rendezvous Delta (51° 2' N., 15° 56' W., then to Dursey Island) in force from July 23 to 28, there were no attacks and no sinks.

It may be said that the Approach Routes were fairly effective in July, but were not effective enough to reduce the sinkings from three per cent. to one per cent. These routes were issued by Vice-Consuls and officers abroad to ships homeward bound, who could not possibly forecast where submarines would be in three weeks time. The War Warnings issued nightly were not very definite and required wireless equipment and a good wireless operator to be of any use. The convoys under an Ocean Escort could take in reports of submarines and act upon them, whereas ships sailing independently not unfrequently ran on to the spot where a ship had been sunk a few hours before.¹

262. Patrols and Escorts.—The command chiefly concerned with the Western Approaches was Queenstown (Vice-Admiral Sir Lewis Bayly, Commander-in-Chief, Coast of Ireland). The forces under Admiral Bayly consisted on July 31 of a flotilla of 12 sloops; 8 mine sweepers; 8 P-boats, stationed at Pembroke; and co-operating under his command 36 destroyers of the United States Flotilla.²

¹ In the attacks by *U.45* on July 15 and July 16 in Approach Route B, the *Mariston*, July 15, 3 a.m., made no signal; the *Ribston*, July 16, 10 a.m., had no wireless; in the *Haworth*, July 17, 11.30 a.m., the wireless was disabled by the explosion.

² *See* Positions and Movements, July 31, p. 12. The depot ship at Queenstown was H.M.S. *Colleen*.

The Auxiliary Patrol Forces under Queenstown on the west coast consisted of:—

At Queenstown (Area XXI), yachts 1, trawlers 21, motor launches 10, drifters 12.

At Berehaven (Area XX), yachts 1, trawlers 5, motor launches 6, drifters 2.

At Galway (Area XIX), trawlers 10.

The North of Ireland command, instituted on May 18,¹ as the northern section of Admiral Bayly's command, was under Rear-Admiral Francis S. Miller, at Buncrana. This force on July 31 consisted of 11 sloops, 12 destroyers.² The Auxiliary Patrol Forces in it consisted of:—

Lough Swilly (Area XVIII), 28 trawlers, 10 drifters, with a base at Buncrana and a sub-base at Killybegs.

The total force available for patrols and escorts to the south and west of Ireland was 36 destroyers, 12 sloops,³ and 36 trawlers and to the north and west 12 destroyers, 11 sloops and 28 trawlers.

A complete and detailed list of escorted ships is not available but the figures for "valuable" and "specially valuable" ships in July the West and South-West of Ireland are as follows:—

"Valuable" and "Specially Valuable" Ships (a).

Date.	Ships		Names.
	Escorted Safely.	Ships Sunk.	
July 1-7	29	2	<i>Iceland</i> , 3/7 <i>Matador</i> , 3/7
July 8-14	32	2	<i>Kioto</i> , 11/7. <i>Valetta</i> , 8/7.
July 15-21	19	4	<i>Ribston</i> , 16/7. <i>Lamia L.</i> , 16/7 <i>Haworth</i> , 17/7. <i>Nevisbrook</i> , 20/7.
July 22-28	25	3 (b)	<i>Paddington</i> , 21/7. <i>Belle of England</i> , 27/7.

(a) From Queenstown weekly reports in H.S. 651/81, 93, 111, 126.

(b) Including one ship, the *Ludgate*, mined on July 26 off Galley Head.

¹ See S.111, A.L., May 13, 1917, in H.S. 1319/454.

² Including four (temporarily) from 14th Flotilla and four from 15th Flotilla (Grand Fleet). Also two old destroyers under S.N.O., Larne, and two under S.N.O., Liverpool.

³ Two under repair. The number of destroyers and trawlers refitting is not stated.

The total is 105 ships escorted safely and 10 sunk by torpedo, none of which were under escort. On July 6 the scarcity of oilers and the sinking of s.s. *Cuyahoga* (July 5 at 5.55 a.m. in 55° 12' N., 12° 3' W., by U.57), which was escorted only by an armed trawler, led to an order that all ocean going oilers were to be escorted by destroyers or sloops and were to be sailed in groups of two or four with two escorting vessels for one or two oilers.¹ This meant a very considerable addition to the burden of escort work at Queenstown, Buncrana and Plymouth.

On July 9 for instance the *Primrose* and *Orford* from Buncrana were escorting two oilers out to 17° W. and were then to patrol on 55° N. to 55° 30' N. between 14° and 16° W.²

On July 11 the *Primrose*, *Daffodil* and *Gladiolus* were convoying west bound traffic from Lough Swilly to 17° W., and the *Delphinium* and *Laburnum* were waiting to escort the oilers *Earl Elgin* and *Delaware*. There was further important work to be done in the way of escorting transports. On July 13, six Plymouth destroyers were detailed to escort oilers outward bound and bring in the *Mantua's* troop convoy from Sierra Leone, and on July 14 the *Olympic* sailed from Liverpool escorted by four destroyers, the *Ariel*, *Alarm*, *Brisk* and *Acheron* (2nd Flotilla, Devonport).³

On July 19, the *Restless* and *Rob Roy* (Buncrana, lent from 15th Flotilla) were escorting the oiler *San Eduardo*. On July 27, three sloops and five destroyers from Buncrana, the *Primrose*, *Delphinium*, *Buttercup*, *Trenchant*, *Medina*, *Orford*, *Rob Roy* and *Tirade*, going out to meet the *Knight Templar's* convoy (HH9) on July 29, took the west bound trade with them to 17° W. This included three oilers, the British s.s. *Comanchee*, 5,588 tons, British s.s. *Tahchee*, 6,508 tons, and American s.s. *Senator*, 4,049 tons, escorted by the *Delphinium*, *Medina* and *Tirade*. The *Comanchee* was torpedoed on July 28 at 5 a.m. in 56° 30' N., 12° 45' W., by U.61,⁴ but escorted by the *Medina* managed to reach Lough Swilly. Another oiler torpedoed in July was the French s.s. *Radioléine*, 4,029 tons, which left Barry for Newport News on July 21. After being escorted safely out to 49° N., 17° W., she was torpedoed by U.96 on July 23 at 7 p.m. in 48° 36' N., 17° 56' W. The ship was abandoned, but at 3 a.m. as there was no further sign of a submarine, the boats which had been lying off, returned to the ship and brought her safely into Queenstown.⁵

An instance of the incidental escort work done by destroyers on patrol is given by Admiral Bayly. The U.S. destroyer *Drayton*

¹ M.08148/17 in Case 1356.

² Telegram, H.S. 479/885.

³ H.S. 481/446.

⁴ Exchange, H.S./Q.62.

⁵ H.S. 1351/73.

was patrolling on July 12 round about 50° N., 16° W. She picked up the s.s. *Phidias*, 5,623 tons, and the s.s. *Patani*, 4,810 tons, in 50° N., 15° 56' W., at 5 p.m., and the s.s. *Navarino*, 5,103 tons, at 5.30; two more steamers were picked up at 9.15 p.m.; the *Drayton* was joined by the U.S. destroyer *Conyngham* at 11 p.m., and the *McDougal* and *Paterson* escorting the s.s. *Kansas City*, 2,345 tons, joined up off the south coast of Ireland making a small incidental convoy of six ships and four destroyers which all arrived safely at Queenstown. Admiral Bayly specially commented on this piece of work in his weekly report¹ and it may have been on account of it that on July 14 he telegraphed "Route B works well."² The destroyers appear to have been patrolling on the Rendezvous Epsilon line (in force on July 9-16) and as the ships arrived they gathered them up and brought them in. (See Plan 14.)

263. **Measures, South-West Approach, "Q" Ships.**³—The following "Q" ships were working in the South-West Approach in July:—

H.M.S. *Cullist*, about 11 days; H.M.S. *Penshurst*, 26 days;
H.M.S. *Vala*, 18 days; H.M.S. *Aubretia*, 15 days; H.M.S. *Viola*, 22 days; H.M.S. *Heather*, 24 days; H.M.S. *Acton*, 12 days; H.M.S. *Laggan*, 18 days; H.M.S. *Dunlevon*, 3 days;
H.M.S. *Gaelic*, about 10 days. Total in July, 145 days.

There were seven actions with submarines.

On July 2 at 1.30 p.m. in 49° 10' N., 8° 25' W., the *Penshurst*, Lieutenant Cedric Naylor, R.N.R., steamer 1,191 tons, armed with one 12 pdr. 18 cwt., one 12 pdr. 12 cwt., two 6 pdr., sighted a submarine 6 miles off S.W. by W., crossing her bows. At 3.12 p.m., in 49° 5' N., 8° 46' W., a periscope was sighted on the port beam about 500 yards off and was missed by a torpedo which passed 10 ft. astern. The boats were turned out and lowered and at 3.35 p.m. the submarine, which was probably *U.53*, emerged about 5,000 yards away and opened fire. The "panic" party left the ship. At 4.13 p.m. as the submarine showed no intention of closing, the *Penshurst* opened fire at 4,500 yards and seemed to get a number of hits. *U.53*, which was not hit, refused action and drew out of sight about 5.30 p.m.⁴ The same day, July 2, at 3.20 p.m., about 180 miles to the north westward, in 51° 27' N., 12° 12' W., H.M.S. *Gaelic*, Lieutenant A. Y. Catto, R.N.R., a three-masted auxiliary barquentine of 174 tons, armed with two 12 pdr., was steering N.E. by E. under all sail making 3 knots, when a submarine⁵ was sighted on the surface

¹ H.S. 651/93, July 15, 1917.

² H.S. 481/613.

³ From Queenstown report, Decoy Ships, H.S. 649.

⁴ H.S. 649/199.

⁵ *U.C.44*, see Exchange, H.S./Q.62.

4,000 yards on the starboard beam. *U.C.44* opened fire and after the sixth shot the "panic" party left the ship. When it was apparent that the submarine had no intention of closing, the *Gaelic* opened fire at a range of 1,500 yards. The first shot was a hit, striking the officer of the watch, Lieutenant Pantel, and shattering his thigh. As soon as he was got below, *U.C.44* dived and shaped course for home. She had not received any other damage.

On July 7 at 8.57 p.m. in 51° 18' N., 9° 30' W., off the Fastnet, H.M.S. *Aubretia*¹, convoy sloop, Captain John L. Marx, R.N.R. (Admiral, retired), armed with one 4-in. and two 12 pdr., sighted a submarine 2 miles away before the starboard beam. At 9.45 p.m. the submarine (probably *U.57*) came to the surface on the starboard quarter and at 10.4 p.m., as the light was almost gone, Admiral Marx decided to attack and opened fire at 3,000 yards getting 10 shots off before *U.57* dived. *U.57* was not damaged.

On July 13 at 1.15 p.m. in 48° 5' N., 7° 52' W., H.M.S. *Cullist*, Lieut.-Commander S. H. Simpson, a steamer of 1,030 tons, armed with one 4-in., two 12 pdr. and two torpedo tubes, steering 222° at 8 knots, sighted on the horizon astern a submarine, which opened fire at long range. By 2.7 p.m. the submarine had fired 68 rounds without scoring a hit. As the submarine clearly had no intention of closing nearer than 5,000 yards, the *Cullist* opened fire and seemed to get several hits out of 18 rounds fired, one of the shots causing a large explosion with an outburst of flame. The submarine which was *U.87* after being hit on the quarter deck by a shell which set fire to several cartridges, broke off the action and went down. She was not seriously damaged and continued her cruise. On July 20 at 6.35 p.m. in 50° 12' N., 9° 15' W., H.M.S. *Viola*, 1,250 tons, armed with one 4-in. and two 12 pdr., sighted a submarine which opened fire at 6.45 p.m. The *Viola* replied at 7 p.m. with six rounds and the submarine which was apparently *U.C.41* went down.²

On July 20 at 7.55 p.m. in 50° 28' N., 9° 35' W., H.M.S. *Vala*, Commander L. A. Bernays, a steamer of 1,016 tons, armed with four 12 pdr., sighted a submarine on the surface about 6,000 yards before the port beam. At 7.58 p.m. the submarine, which was *U.C.41*, opened fire and fired 12 rounds; as it was growing dark the *Vala* at 8.8 p.m. opened fire and ceased fired at 8.17 p.m., when *U.C.41* made off on the surface.

On July 23 at 8.16 a.m. in 48° 50' N., 9° 11' W., H.M.S. *Penshurst*, steering N. 80° E., at 8 knots, sighted the track of a torpedo, on the starboard quarter 300 yards off, which missed 25 ft. astern. About 8.36 a.m. a submarine broke surface 6,000 yards, emerging at 8.41

¹ H.S. 649/238.

² *U.C.41* reported two actions in the evening with different "Q" ships. H.S./Q.62.

and opening fire at 8.47 a.m. at 7,000 yards. After firing eight shots, she went off at 9.2 a.m. after a steamer. The submarine which had one gun was probably *U.82*.

In the South-West Approach in July, in the seven actions with "Q" ships, the submarines were careful to maintain a long range and were evidently fully aware of the nature of their adversary. During May, June and July, some 16 actions had been fought by "Q" ships with submarines in the South-West Approach of which only one had resulted in the sinking of a submarine (June 7, *U.C.29* sunk by H.M.S. *Pargust*, Commander Gordon Campbell).

The submarines had retaliated by sinking three "Q" ships.¹

264. Submarine Patrols, Ireland, North.—At Killybegs were stationed the *Vulcan*² (Captain Martin E. Nasmith, V.C.) with eight submarines (*E.23*, *E.32*, *E.35*, *E.48*, *E.54*, *E.56*, *H.5*, *H.8*) and the *Platypus* (Commander Charles G. Brodie) with six submarines (*D.1*, *D.3*, *D.4*, *D.6*, *D.7* and *D.8*). The number of days out in July was 140. *H.5* was working with the "Q" ship *Prize* and *D.7* with the *Underwing*. Enemy submarines were sighted on eight occasions in July and three attacks were made.

On July 5 at 8.30 a.m. in 54° 57' N., 11° 10' W., *D.4* sighted a submarine (*U.57*) which dived. Three hours later she sighted her again 1,000 yards off on the starboard quarter steering west. The enemy submerged, rising at 12.12 p.m. 800 yards away on the port bow. At this juncture *D.4*, turning at high speed to get sights on before her quarry could open the range, broke surface badly; and *U.57* turning stern on to *D.4* attacked her with her after gun firing 12 rounds without effect. *D.4* fired a torpedo at 1,000 yards which missed and then went deep through a hydroplane defect.³ *D.7* was working on Buncrana K.2 patrol⁴ from July 8 to 20. On July 13 at 7.20 a.m. in 56° N., 12° 30' W., a distant explosion was heard and at 8.5 a steamer was sighted and a submarine bearing 84° and steering north. *D.7* dived at full speed but was unable to cut her off. The submarine was evidently *U.88* who had just sunk the Danish s.s. *Ceres*, 1,166 tons. On July 15 at 5.20 a.m. in 56° N., 12° 10' W., a submarine was sighted bearing 195°, steering 350°. The enemy made an eight point alteration of course and *D.7* was only able to get a quarter shot at 2,000 yards with two torpedoes which missed. The submarine was probably *U.66*. On July 17 at 12.35 p.m. in 56° N., 12° 17' W., a submarine was sighted bearing 330°, steering to southward. *D.7* dived on a course 240°

¹ The *Paxton* on May 20 by *U.46*; the *Zylpha*, June 11, *U.82*; the *Salvia*, June 20 by *U.94*. H.S. 649/110, 150.

² The *Vulcan* moved to Killybegs on July 15. H.S. 481/729.

³ H.S.A. 278/213, Reports, *Vulcan* and *Platypus*.

⁴ 56° N. from 10° W. to 15° W.

at full speed and at 1.45 p.m. fired a quarter shot at 2,000 yards (one Mark VIII, set for 3,000 yards, 29 knots) which missed. The submarine may have been *U.30* or *U.95*, which left Heligoland on July 11 for the West of Ireland. *E.48* had the unpleasant experience during her patrol of being attacked by a friend. She left Killybegs on July 28 to patrol on K.5 (56° N. from 14° W. to 15° W.). On July 31 at 10.45 p.m. in 54° 33' N., 13° 10' W., she sighted a steamer which shaped course straight for her when a mile away. *E.48* went down to 70 ft. and heard a depth charge explode, then down to 120 ft. and heard two more. Though the boat was considerably shaken, no damage was done. Her assailant was the "Q" ship *Magneta* which had sighted the conning tower of an enemy submarine at 6.20 p.m. and at 10.32 p.m. discovered a submarine nearly ahead, with conning tower and bow wave showing, and dropped three depth charges.¹

During July, the submarine patrols off Ireland were not fortunate enough to attain success and another two months were to elapse before *D.7* by sinking *U.45* on September 12 was to repeat *E.54*'s exploit of May 1.

¹ Reports and decision in H.S. 1363/125, 145.

CHAPTER XIX.

SUBMARINES, NORTH SEA, JULY 1917.

265. **Submarines High Sea Fleet, North Sea, July 1917.**—In the North Sea, north of Flamborough Head, during July, 15 High Sea Fleet submarines (which does not include 29 submarines which passed on passage to the westward) were operating and in the North Sea, south of Flamborough Head, seven Flanders submarines, as follows:—

Submarines, High Sea Fleet, North Sea, July 1917.

Submarine.	Left.	Re- turned.	Days. July.	Ships. July.	Tonnage.	Area.
U.99 ..	12.6	Sunk (a)	7	—	—	Lerwick-Bergen.
U.19 ..	14.6	4.7	4	—	—	Lerwick-Bergen.
U.C.33 ..	24.6	8.7	8	6	867	Orkneys.
U.52 ..	1.7	19.7	19	4	6,345	Lerwick-Bergen.
U.C.55 ..	5.7	16.7	12	3	2,520	England, East.
U.C.45 ..	7.7	20.7	14	1	43	Scotland, East.
U.67 ..	12.7	2.8	20	4	5,588	Lerwick-Bergen.
U.B.21 ..	14.7	29.7	16	3	5,525	England, East.
U.C.49 ..	15.7	2.8	17	2	4,834	Orkneys.
U.B.22 ..	18.7	14.8	14	—	—	England, East.
U.C.42 ..	25.7	9.8	7	1	3,082	England, East.
U.94 ..	26.7	19.8	6	5	13,009	Lerwick-Bergen.
U.60 ..	27.7	13.8	5	1	526	Lerwick-Bergen.
U.C.40 ..	28.7	13.8	3	1	196	England, East.
U.86 ..	2.7?	11.7	10	1	66	Lerwick-Bergen.

Submarines 15, 162 days, 29 ships, 34,687 tons. Tonnage sunk per day, per submarine, 213 tons. (b)

(a) Possibly on July 7 by J.2.

(b) In addition, 29 submarines (of which one, U.69, did not return) passed through the North Sea on passage to the westward, making 72 more days. If this be included, number of days is 234 and tons per submarine-day is 148.

North Sea, South, Flanders Submarines, July 1917.

Submarine.	Left.	Re- turned.	Days.	Ships.	Tonnage.	Area.
U.C.21 ..	28.6	4.7	4	1	1,044	Hoofden.
U.C.64 ..	8.7	17.7	10	—	—	Harwich route.
U.B.35 ..	21.7	24.7	4	1	257	Harwich route.
U.B.18 ..	21.7	29.7	9	4	652	Harwich route.
U.C.16 ..	25.7	30.7	6	7	713	Hoofden.
U.B.27 ..	22.7	Sunk (a)	8	—	—	Hoofden.
U.B.20 ..	28.7	Sunk (b)	1	—	—	Trials.

Seven submarines, 42 days, 13 ships, 2,666 tons. Tons per submarine-day, 63.

(a) Sunk by H.M.S. *Halcyon*, July 29.

(b) Sunk by mine, July 28, Flanders coast.

266. **Mines, North Sea.**—Mines were laid by High Sea Fleet submarines as follows:—On July 9, U.C.55 laid 18 mines off Sunderland, Hartlepool and Scarborough (Fields 313-18 in O.U. 6020A). The British s.s. *Flamma*, 1,920 tons, struck one on July 10 at 2 a.m. in 54° 55' N., 1° 9' W., and was beached. On July 9, U.C.45 laid 18 mines off Aberdeen (Fields 307-10) which resulted in the closure of the port for 24 hours. On July 19, U.C.49 laid five mines off Lerwick (Field 304), eight off Kirkwall (Field 305) and five off Westray Firth, Orkneys (Field 306). The British s.s. *Cotovia*, 4,020 tons, was mined and sunk off Kirkwall in 59° 1' N., 2° 57' W., on one of these on July 22 at 7.30 p.m. On July 30, U.C.42 laid nine mines off Berwick (Field 299, 300). A small motor fishing vessel the *Jane S.* of 12 tons struck one of them on August 14 in 55° 49' N., 1° 50' W., and was sunk with all hands. Altogether 63 mines were laid in the North Sea by four High Sea Fleet submarines with a loss during July of 4,032 tons.

The following ships were also sunk by mines:—On July 7 at 12.35 p.m. in 59° 3' N., 2° 34' W., off Kirkwall, the armed drifter *South Esk*, probably on a minefield (Field 247) laid by U.C.33 on June 29, in 59° 3' N., 2° 33' W. On July 26 at 10 p.m. in about 60° 39' N., 0° 33' W.,¹ the French s.s. *Flore*, 3,553 tons, on the way from Archangel was mined or torpedoed and sank in five minutes. At almost the same time the British s.s. *Ethelwynne*, 3,230 tons which was with her, 2 cables off, in a position given as 60° 36' N., 0° 37' W., struck a mine. She was loaded with timber and did not sink. She was taken in tow and at 1.25 p.m. in 60° 42' N., 0° 38' W., struck another mine and was beached at Busta Voe. She was regarded as torpedoed, but no submarine was seen and she is not in the German reports.

¹ About 7 miles west of Fetlar (Shetlands). H.S. 1368/373.

These positions correspond approximately to a field of 22 mines (Field 218) laid by *U.71* on May 31, in 60° 39' N. to 60° 28' N. and 0° 40' W., and it is probable that both ships struck these mines.

On July 31 at 4.30 a.m. in 53° 54½' N., 0° 8¾' E., British s.s. *Empress*, 2,914 tons was mined and sank in half an hour, the survivors (21 out of 26) were picked up by *P.52* and brought to Grimsby.¹

267. Mines, Flanders Submarines.—The following mines were laid by Flanders submarines:—On July 6, *U.C.11* laid 12 mines off the Shipwash (Field 435)² and *U.C.4*, 12 in the same area (Field 436); on July 6, *U.C.14* laid 12 off Smith Knoll (Field 438) and on July 10, *U.C.6* laid 12 off the Tongue (Field 443). On July 13, *U.C.11* laid 12 off the Sunk Light (Field 444) and on July 14, *U.C.14* laid 12 off Smith Knoll (Field 446). On July 14, *U.C.14* laid 12 off Aldborough (Field 447) which caused the loss of the paddle minesweeper *Queen of the North* on July 20, in 52° 3' N., 1° 49' E. (eastward of the War Channel) with a loss of seven officers and 22 men. Motor launches were sent to search the area at low water on July 21 and sweeping accounted later for seven mines and three more near where the minesweeper was sunk. On July 18, *U.C.11* laid 12 mines off the Sunk (Field 450), on July 22, *U.C.4* laid 12 mines off the Shipwash (Field 454), July 22, *U.C.6*, 12 mines off the North Foreland (Field 455) and *U.B.12*, 8 off the South Foreland (Field 456); on July 26, *U.C.6* laid 12 off the Kentish Knock and on July 27, *U.C.11* laid 12 off the Sunk (Field 460). On July 24, *U.C.63* is stated to have laid 12 off Spurn Point and 6 on July 25 off Flamborough Head in 54° 3' N., 0° 22' E. Altogether 170 mines were laid with the loss of one minesweeper. With those laid by the High Sea Fleet this amounted to a total of 233 mines in July.

268. "U.99," June 12–July 7.—*U.99*, Lieut.-Commander Max Eltesler, left Heligoland on June 12 to work on the Lerwick to Bergen route. She did not return and her movements are very obscure. According to the German Historical Section it must have been she that on July 6 at 9.0 a.m. in 58° 35' N., 0° 45' W., torpedoed and sank H.M.S. *Itchen*³ escorting an east coast convoy. As there is no attack of any significance in the area between July 6 and 9 excepting that of H.M. Submarine *J.2* (XI Submarine Flotilla, Blyth, Lieut.-Commander Vincent Cooper) on July 7 at 7.40 a.m. (see S.156), her

¹ The position is near Field 280 laid by *U.C.47* on January 26, 1917, or Field 223 laid by *U.C.17* on October 21, 1916.

² For positions see *O.U. 6020B*, German Statement of Mines.

³ This rules out as the cause of her destruction an attack with depth charges on a submarine by H.M. Trawlers *Vireo* and *Arctic Whale* on July 4 at 1 p.m. in 59° 21' N., 0° 54' W., escorting a south-bound convoy (H.S. 1368/107). The submarine was probably *U.52*.

loss was possibly due either to this attack or to one of the minefields laid on the Bight between June and July by the *Abdiel*, *Royalist*, *Blanche* or *E.46*.¹

269. "U.19," June 14 to July 4.—*U.19* (Lieutenant Spiess) working on the Lerwick–Bergen route had in June twice attacked Scandinavian convoys and sank three ships² but sank nothing in July. She was back on July 4.

270. "U.C.33," June 24 to July 8.—*U.C.33* left Heligoland on June 24; she laid mines off Lerwick on June 27 and June 28 which were found the same day, though unfortunately H.M.S. *Cheerful* struck one of them on June 30 at noon in 60° 2' N., 1° 7' W.,³ and was sunk. *U.C.33* went down to Rattray Head and on June 29 sank the f.v. *Manx Princess*, 87 tons, off the coast and the same day laid six mines off Kirkwall in the Orkneys in 59° 3' N., 2° 34' W., on which the armed drifter *South Esk* was lost on July 7. On July 2 she was on the east coast of the Shetlands and at 10.35 p.m. in 59° 59' N., 0° 22' W., sank with gunfire two small British fishing vessels the *General Buller* and *Hamnavoe*. On July 6 she sank two Dutch fishing vessels, the *Handel En Visscherij* and the *Piet Hein* and on July 8 when she must have been near the Bight, the Norwegian s.s. *Skjald*, 477 tons. She was back on July 8, having sunk six vessels (five of them fishing craft) of 867 tons.

271. "U.52," July 1 to 19.—*U.52* (Lieut.-Commander Hans Walter) left Heligoland on July 1 to work off the Shetlands. His first ship was on July 6 when at 4.30 p.m. in 61° N., 0° 42' W., not far from Muckle Flugga, he sank with gunfire and torpedo the Norwegian s.s. *Flora*, 818 tons, proceeding unescorted from Iceland to Bergen. *U.52* must then have gone south for on July 9 at 4.45 a.m. in 59° 32' N., 0° 46' W., off the Orkneys she met a north-bound convoy of ten ships escorted by H.M.S. *Fairy* and *Albatross* and armed trawlers and succeeded in sinking the British s.s. *Prince Abbas*, 2,030 tons, bound from London to Trondjhem. Another torpedo missed the Danish s.s. *Rigmor*. The *Fairy* then sighted a periscope and dropped

¹ *J.2*'s hit was not allowed as it was thought at the time that all submarines in the area had survived (H.S. 628/179). For minefields, see Captain Lockhart Leith's history, p. 439. *Abdiel* laid Field 37, 235 mines, on June 23 near 55° 37' N., 6° 17' E., which was apparently not found till March, 1918, and *E.46*, on June 14, laid Field 50, of 20 mines, near 55° 39' N., 7° 49' E., apparently not found till September 1917, both on the route used by submarines returning at that time.

² June 21, British s.s. *Black Head*, 1,898 tons, and Norwegian s.s. *Laatefos*, 1,488 tons; on June 22, Norwegian s.s. *Bolette*, 1,431 tons, altogether 6,246 tons.

³ *O.U. 6020A*, Field 244, 245, near 60° 5' N., 1° 5' W., and on June 28, Field 246, near 60° 12' N., 1° 5' W.

a depth charge without effect. On July 11 at 2.25 a.m. in 60° 15' N., 1° 20' E., meeting an east-going convoy escorted by trawlers and three destroyers, *U.52* torpedoed and sank the Swedish s.s. *Vanda*, 1,646 tons, though nothing was seen of a submarine. She then went to the south-west and on July 12 at 2.45 p.m. in 59° 16' N., 0° 46' W. off the Orkneys, torpedoed the Swedish s.s. *Frederika*, 1,851 tons, in a south-bound convoy of 10 ships, escorted by armed trawlers and H.M.S. *Fairy* and *Albatross*. The *Albatross* sighted a periscope, tried to ram, was missed by a torpedo and dropped a depth charge.¹

It had been arranged to keep two "C" class submarines on surface patrol against submarines between the Orkneys and Shetlands and on July 16 at 7 p.m., *C.34* (Lieutenant Ingleby S. Jefferson) left Scapa with the *Medea* and *C.19* for the Fair Island area, where she was to patrol between the Orkneys and Shetlands as far east as 0°. On July 17 at 1.35 p.m. *C.34* was lying stopped on the surface with tanks flooded in about 59° 30' N., 0° 5' W., when she was sighted by *U.52*, who attacked and at 2.46 p.m. hit her with a torpedo. She sank at once in a cloud of flame. One single survivor² was picked up. As he was hauled on board smothered with oil, he uttered, what the Germans described as a "typically English" expression, "you have won the game." The question of continuing surface patrols in the area was considered and it was decided that the risk must be taken. *U.52* sank nothing more and was back in Heligoland on July 19, having sunk four ships of 6,345 tons, and having been twice attacked with depth charges.

272. "U.C.55," July 5-16.—*U.C.55* left Heligoland on July 5 to lay mines and operate on the East Coast. On July 8 in 54° 56' N., 1° 46' E. she sank with gunfire the Swedish s.v. *Spekulation*, 291 tons, and on July 9 laid mines off Sunderland, Hartlepool and Scarborough.³ On July 10, the British s.s. *Flamma*, 1,920 tons, struck one of them in 54° 55' N., 1° 9' W., but managed to reach the shore where she was beached. *U.C.55* then made her way to the northward, looking for the East Coast convoy, and on July 12 at 4.15 a.m. in 58° 36' N., 0° 2' W. torpedoed and sank the Norwegian *Balzac*, 1,720 tons, in a northward bound convoy of eight ships escorted by H.M.S. *Ostrich* and H.M.S. *Thrasher*, the latter of which dropped a depth charge. On July 14, *U.C.55* sank the Norwegian m.v. *Lai*, 509 tons, apparently somewhere about 57° 10' N., 3° 30' E. It seems possible that she collided with her for she broke off her operations, returning home with damaged bows.⁴ She was home on July 16 having sunk three ships of 2,520 tons.

¹ Report, Orkneys and Shetlands H.S. 1368/298.

² Frank Scoble or Scobell. Report from Captain Leonard Donaldson (H.M.S. *Lucia*, 10th Flotilla) in H.S. 628/198. German report in H.S./Q.63.

³ Fields 313-316 in O.U. 6020A.

⁴ War Diary, I.D. 3030/41.

273. "U.C.45," July 7-20.—*U.C.45* left Heligoland on July 7. On July 9 she laid mines off Aberdeen, near 57° 12' N., 1° 58' W.,¹ which led to the closure of the port for 24 hours, though no ships were lost. She then went north and on July 13 at noon in 59° 13' N., 0° 48' W. off Fair Island sank the Danish s.v. *Afram*, 43 tons, with gunfire. She was back on July 20 having sunk one ship of 43 tons.

274. "U.67," July 12 to August 2.—*U.67* (Lieut.-Commander Hans Nieland) left Heligoland on July 12 to attack the Lerwick convoy route. On July 19 at 4.0 p.m. in 60° 46' N. 4° 9' E. she met an east going Scandinavian convoy which had sailed from Lerwick on July 19. The convoy consisted of seven ships escorted by five armed trawlers and two destroyers, the *Sarpedon* and *Arab*. *U.67* succeeded in hitting the Danish s.s. *Harrildsborg*, 1,547 tons, the second ship in the starboard column, which sank in 6 minutes. All the crew of 19 were saved but nothing was seen of the submarine.

U.67 evidently did not get another opportunity to attack till July 24, when at 4.15 p.m. in 60° 42' N., 4° 3' E. she attacked an east bound-convoy of 11 ships escorted by the *Opal* and *Mounsey*, and firing two long shots missed the leading ship with the first torpedo and hit the Swedish s.s. *Viking*, 856 tons, with the second. The *Opal* ran up the track and dropped a depth charge which exploded.² On July 28 at 7.30 p.m. still working near the Norwegian coast in 60° 49' N., 4° 5' E. *U.67* attacked a west-bound convoy and sank the Danish s.s. *Rigmor*, 798 tons. It was possibly she too that on July 29 at 2.56 p.m. in 60° 8' N., 0° 52' W. off Lerwick attacked and sank the Russian s.s. *Cesarevitch Alexei*, 2,387 tons, in the same convoy, which thus lost three ships on the way across, for the Danish s.s. *Ingeborg* was sunk by *U.94* on July 29. *U.67* was back on August 2 having sunk four ships of 5,588 tons.

275. "U.B.21," July 14-29.—*U.B.21* left Heligoland on July 14 to operate on the East Coast. On July 19 at 6.55 p.m. the Japanese s.s. *Hirano Maru*, 8,520 tons, bound to Newcastle was missed by a torpedo probably fired by her. On July 20 at 10.30 p.m. in 54° 18' N., 0° 20' W. off Scarborough she torpedoed the British s.s. *Trelyon*, 3,099 tons, unescorted, bound from Archangel to London with timber. The ship was beached but became a total wreck. On July 22 at 8.30 p.m., in 54° 23' N., 0° 23' W. she torpedoed the British s.s. *Glow*, 1,141 tons, from Tyne to London, which sank in 10 minutes. On July 23 at 7.40 p.m. in 54° 32' N., 0° 42' W. she attacked with gunfire the Swedish s.s. *Vanland*, 1,285 tons, from Tyne to London, unescorted, which was driven ashore in flames. On July 25 at 7.25 p.m. in 54° 2' N., 0° 4' E. off Spurn Point, the

¹ O.U. 6020A, Fields 307-10.

² H.S. 1368/359.

British s.s. *Effra*, 1,325 tons, was missed by a torpedo probably fired by her. *U.B.21* returned on July 29 having sunk three ships of 5,525 tons.¹

276. "U.C.49," July 15 to August 2.—*U.C.49* left Heligoland on July 15 and on July 18 laid four mines off Lerwick near 60° 5' N., 1° 5' W. then proceeded to the Orkneys and on July 19 laid eight more off Auskerry off Kirkwall near 59° 1' N., 2° 33' W. On July 22 the British collier transport *Cotovia*, 4,020 tons, was off the Orkneys on her way from Lerwick to Kirkwall, one of a convoy of two escorted by five trawlers when at 7.30 p.m. in 59° 1' N., 2° 37' W. in a thick fog she struck one of these mines and sank at 9.40 p.m. This was the first indication of *U.C.49*'s field in an area which had been swept and declared clear on July 19. The port of Kirkwall was closed and five mines were swept up by July 26.² *U.C.49* then proceeded round to the west coast of the Orkneys and on July 22 laid five mines off the Westray Firth near 59° 12' N., 3° 1' W.³ She then went off to operate west of the Orkneys and on July 22 at 10.25 p.m. in 58° 54' N., 6° 28' W., torpedoed and sank H.M.S. *Otway* (Commodore Philip H. Colomb) of the 10th C.S., the survivors in 12 boats being picked up by the whaler *Rorqual* of the Stornoway Auxiliary Patrol.

As four oilers at Scapa were waiting to sail by the west coast on July 24 they were given an escort of five destroyers, and Rear-Admiral, Stornoway, was ordered to reinforce the escort off the Butt of Lewis with any vessels that he could. On July 24 at 4.52 p.m. in 59° 3' N., 5° 33' W., *U.C.49* met a coastal convoy of four ships proceeding from Loch Ewe to Lerwick, escorted by four armed trawlers, and torpedoed the British s.s. *Blake*, 3,740 tons, bound for Archangel, which sank in one minute with a loss of five out of a crew of 56. On July 25 at 6 a.m. somewhere in 60° 10' N., 4° 5' W., *U.C.49* sank with gunfire and bombs the Norwegian s.v. *Dea*, 1,094 tons, on the way to Kirkwall with an armed guard from H.M.S. *Royal Scot* of the 10th Cruiser Squadron, who escaped in the boats and reached Bergen on July 31. *U.C.49* was back on August 2 having sunk two ships of 4,834 tons and H.M.S. *Otway* of 12,077 tons.

277. "U.B.22," July 18 to August 14.—*U.B.22* left Heligoland on July 18 to operate on the east coast of England. It is possible that the British s.s. *Glow* on July 22 and the Swedish s.s. *Vanland* on July 23 may have been sunk by her (instead of by *U.B.21*).

On July 25 at 8 p.m. in 54° 29' N., 1° 3' W., four armed trawlers, the *Falcon*, *Valentia*, *King Henry* and *Oldham*, convoying the

¹ *Glow* and *Vanland* may have been sunk by *U.B.22* (see *infra*).

² H.S.B. 170, 1005.

³ O.U. 6020A, Fields 304, 305, 306.

fishing fleet, sighted and engaged a submarine¹ which may have been *U.B.21* or *U.B.22*, and on July 28 at 9.15 a.m. in 54° 39' N., 0° 35' E. the armed trawler *Delhi* with the fishing fleet was fired at by a submarine. *U.B.22* did nothing more in July.

278. "U.C.42," July 25 to August 9.—*U.C.42* left Heligoland on July 25 and on July 30 laid mines² off Berwick near 55° 47' N., 1° 55' W.; on August 14 at 5.50 a.m. the f.v. *Jane S.*, 12 tons, caught one of these in her nets in approximately 55° 49' N., 1° 50' W. and was lost with all hands.³ *U.C.42* then evidently went to the northward for on August 6 at 8.30 p.m. off Stonehaven in 56° 58' N., 1° 5' W. she torpedoed and sank the British s.s. *Baysoto*, 3,082 tons, out of a south-bound convoy. She was back in Heligoland on August 9.

279. "U.94," July 26 to August 19.—*U.94*, Lieut.-Commander Saalwaechter, left Heligoland on July 26. On July 29, he was between the Shetlands and Norway, when at 6.15 a.m. in 60° 18' N., 1° 26' E. he met a west-bound Scandinavian convoy and torpedoed and sank the Danish s.s. *Ingeborg*, 1,210 tons. By the evening *U.94* was some 60 miles north of the Shetlands and at 8.15 p.m. in 61° 43' N., 0° 15' E. sank by gunfire the British s.s. *Adalia*, 3,847 tons, bound from Archangel to Lerwick unescorted. The master, Captain Walter Myles, was taken on board the submarine where he remained the night, being turned over to one of the boats of the *Manchester Inventor* the next day. On July 30 at 5.25 a.m. in 62° N., 0° 45' W., the British s.s. *Manchester Inventor*, 4,112 tons, bound from Archangel to Lerwick laden with flax and unescorted, was missed by two torpedoes. The submarine, *U.94*, then rose and opened fire, firing some 90 rounds and obtaining about nine hits⁴ on the ship which was zig-zagging at about 11 knots and returned the fire with her 13 pdr. gun. Calls were sent out and the Master thinking it impossible to save the ship⁵ abandoned her and she was sunk by gunfire at 6.21 a.m. The crew of 41 were all saved. *U.94* proceeded to the northward and at 1.20 p.m. in 61° 52' N., 0° 22' W. opened fire on the Russian s.s. *Souma*, 2,200 tons, bound from Archangel to Lerwick, unescorted. The ship returned the fire with a 13 pdr., but after receiving sixteen hits was abandoned and sunk by *U.94* with bombs. At 3.30 p.m. in 62° 10' N., 0° 10' W., the Russian s.s. *Kildin*, 1,640 tons, bound from Archangel to Lerwick, unescorted, was torpedoed and sunk. This was the last ship sunk by *U.94* in July; she was off

¹ I.D. Log, B.30/3.

² Field 299, O.U. 6020A.

³ This may have been Field 123, *U.C.45*, of March 15, 1917, in 55° 48' N., 1° 52' W.

⁴ Master's deposition in H.S. 1368/458; the first report says two hits.

⁵ H.S. 1368/453.

the north-west of Ireland on August 11 where she sank the British s.s. *Lynorta*, 3,684 tons and on August 16 on her way back, the Danish s.s. *Svanholm*, 1,400 tons in a Scandinavian convoy westward bound. During July she had in a couple of days sunk the quite substantial total of five ships of 13,009 tons, the largest for the month in the North Sea. She had treated the Master of the *Adalia* "kindly and with respect."

280. "U.60," July 27 to August 13.—*U.60* left Heligoland on July 27. On July 30 at 11 a.m., H.M.S. *Mounsey* near the coast of Norway escorting an eastward bound convoy of eight ships from Lerwick sighted a submarine on the surface 12 miles off, S.75 E. The *Mounsey* made for it and the submarine dived, while the convoy proceeded north, but at 1.45 p.m. in 60° 52' N., 4° 12' E. the Norwegian s.s. *Canis*, 526 tons was torpedoed and sank in 5 minutes; the crew with the exception of one man killed, were saved. This was *U.60*'s only ship in July, though she sank one more in August.

281. "U.C.40," July 28 to August 13.—*U.C.40* left Heligoland on July 28. On July 30 she sank the Danish s.v. *Amor*, 196 tons. She laid mines off Whitby on August 3, and in the same area on August 6 torpedoed and sank the British s.s. *Polanna*, 2,345 tons. In July she sank only one ship of 196 tons.

282. "U.86," July 2 to 11.—*U.86* seems to have left about July 2 when she sank a small Swedish fishing vessel the *Bessie*, 66 tons and was apparently cruising between Norway and the Orkneys, for she was located by directionals on July 5 at 2.47 p.m. in 59° 7' N., 2° 50' E.,¹ and on July 8 at 3.2 p.m. in 59° 19' N., 0° 29' E.¹ On July 9 at 9.40 a.m. she was approximately in 57° 9' N., 2° 44' E.,¹ returning home. At 7.50 a.m. in 57° 35' N., 2° 40' E., *J.5*, Commander E. C. Boyle, V.C., of the 11th Flotilla, on patrol sighted a submarine steering 135°, and fired two torpedoes at it at 3,000 yards which seemed to miss.² One of them however seems to have hit, for *U.86* at 8.20 p.m. reported "that torpedo hit fore part of ship but did not explode,"³ possibly because she was then end on. She was back on July 11, having sunk only one small fishing vessel of 66 tons. She had been attacked and apparently hit by H.M.S. *J.5* on July 9, but the torpedo failed to explode.

283. Flanders Submarines, North Sea, South.—In the southern part of the North Sea (*i.e.*, south of Flamborough Head, approximately 54° N.), only five submarines went out, apart from

¹ These positions from History Sheet, *U.86*, in I.D. Vol. 607.

² Report in H.S. 628/32.

³ War Diary, July 1917, p. 33. This evidently referred to herself for no ship was attacked anywhere on that day in the vicinity. The reason of the shortness of her cruise is not known.

those engaged in minelaying. *U.C.21* was cruising in the Hoofden from June 28 to July 4 and sank one Dutch fishing vessel on June 29 and on July 4 the Dutch s.s. *Bestevaer*, 1,044 tons. *U.C.64* was out from July 8 to 17 and apparently sank nothing. *U.B.35* was cruising on the Harwich to Hook route from July 21 to 24 and sank only one small ship. *U.B.18* was cruising for nine days from July 21 to 29, but sank nothing more than two Dutch tugs and a couple of small Dutch vessels, 652 tons in all. *U.C.16* did no better. She was cruising from July 25 to 30 and sank seven Dutch fishing vessels, 713 tons in all. They did nothing against the Dutch traffic which, strongly escorted by Commodore (T)'s forces, passed 105 ships and a large number of barges¹ across in safety. In the southern part of the North Sea in July it may be said that submarines were almost completely dominated by the opposing measures and two of them, *U.B.27* and *U.B.20* were sunk (*see* S.215 and 286).

CHAPTER XX.

NORTH SEA, MEASURES.

284. North Sea, Traffic.—The amount of traffic in the North Sea may be approximately estimated from the reports of the Downs Boarding Flotilla and the Scandinavian Convoy. In July 1917, 1,454 ships passed the Downs, northward bound, as follows:—

To London	..	..	..	..	..	579 (a)
To Holland	..	..	..	..	..	7
To Lowestoft and Yarmouth	..	..	..	..	..	45
To Hull	..	..	..	..	..	293
To Middlesbrough and Tees	..	..	..	..	..	247
To the Tyne	..	..	..	..	..	248
To Scotland	..	..	..	..	..	35
Total	..	..	..	..	..	1,454

(a) Not including 65 barges; of the 579, there were from France 342.

Assuming the same number of ships southward bound the number of vessels moving during the month in the Thames area may be estimated at about 2,800 and in the area along the War Channel to

¹ Apparently about 50, presumably for Admiral Bacon's landing project on the Flanders coast. (*See* S.189.)

the Tees at about 1,600. The number of ships escorted in both directions by the Scandinavian Convoy on the route from the Humber to the North was approximately 457.¹

On the route to the East Coast 227 ships sailed from Lerwick during the month making about 454 in both directions. A number of ships were also moving on coastal voyages unescorted, estimated by the Commander-in-Chief, Coast of Scotland at 75 weekly in the Forth Area or 300 a month. The Dutch traffic numbered 57 eastward bound and 48 westward bound² and was escorted across without a single loss.

The losses in the North Sea except on the Lerwick-Bergen route were very small. On the stretch of coast from the Tees to Kinnaird Head, there was not a single ship lost during July.

285. Measures, Scandinavian Convoy.—The Scandinavian Convoy had started on April 29³ between the Humber and Lerwick with a force of 20 destroyers and six escort forces, A to F, each of seven or eight whalers or armed trawlers. From April 29 to July 1 the number of ships moving from Norway to Lerwick was 385 and from Lerwick to Norway 351 making a total of 736 in two months (or an average of 368 ships a month in both directions) with a loss of 20 or 2.7 per cent.⁴ In the Scandinavian convoy in July, 10 ships⁵ were sunk out of some 454 or 2.2 per cent. This fairly high percentage of loss was due to the efforts of five submarines (*U.67*, *U.60*, *U.94*, *U.52*, *U.C.55*) working between the Shetlands and Norway. In all but three cases, a counter attack was made by escorts with depth charges, but without result. H.M.S. *Itchen* was also torpedoed on July 6 (probably by *U.99*), while escorting a northward bound convoy to Lerwick with a loss of one officer and seven men.⁶

Admiral Sir Frederick Brock in a report of July 1 pointed out that difficulty would be experienced in winter with the 30 knotters and orders were given for six river class to be sent to the Humber before August 25 in lieu⁷ and the *Garry* and *Dee* were ordered on July 15 to be sent from Larne.

¹ According to telegrams.

² Commodore (T)'s Diary, H.S. 247.

³ See Home Waters VIII, S.287. New draft of orders for Scandinavian convoys by Admiral Sir Frederick Brock dated June 20, 1917, is in H.S. 1322/470.

⁴ Report, July 1, 1917, in H.S. 1325/205. The figures in the report are 1,619 ships and losses 20 = 1.23 per cent.; but the ships are apparently being counted twice as if in two convoys, viz., from the Humber to Lerwick and from Lerwick to Norway.

⁵ July 9, *Prince Abbas*; July 11, *Vanda*; July 12, *Frederika*; July 12, *Balzac*; July 19, *Harrildsborg*; July 24, *Viking*; July 28, *Rigmor*; July 28, *Ingeborg*; July 29, *Cesarevitch Alexei*; July 30, *Canis*.

⁶ H.S. 1368/139.

⁷ H.S. 1325/200, 233.

The White Sea traffic had increased with the coming of summer and as Lerwick harbour had at times contained from 15 to 20 ships awaiting despatch to the north, three additional trawlers were asked for by Admiral Brock.

On July 3, the question of arranging double convoys (fast over 11 knots and slow 11 to 7 knots) for the East Coast was discussed but Admiral Hamilton, the Commander-in-Chief, Coast of Scotland, did not think it feasible with the forces available.¹

Admiral Brock reported 11 of his trawlers as unsuitable on account of their bad steaming qualities and it was decided to relieve 11 of them by trawlers with a sea speed of at least 9 knots and arrangements were made accordingly on July 30.²

286. Measures, Dutch Traffic.—The War Trade Department in June had represented that since the commencement of the submarine campaign, the imports of foodstuffs from Holland were being carried almost exclusively in British vessels; these convoys were passing only once every eight days, though the Admiralty had agreed to arrange for one every four days. It was urged that the number of convoys should be increased as imports of margarine from Holland had been only 4,500 tons in May 1917 against nearly 12,000 tons in May 1916. The Admiralty replied that the Harwich Force had other tasks to perform besides that of escorting the Dutch traffic. It had to take part in operations off the Belgian coast, reinforce the Dover patrol in the event of raids and escort minelayers to the Bight.³ During July it had in addition been engaged in the important task of intercepting German trade with Holland and had also to convoy a large number of barges across from Holland.⁴ Dutch traffic was escorted across on five occasions, viz., July 4, 6, 12, 21 and 29. The traffic consisted usually of from 13 to 15 vessels and the escorting force was a very strong one of some 8 to 12 destroyers, who usually left Harwich in the evening about 6.30 p.m. crossing 2° E. about 7.30 p.m. A supporting force of some four light cruisers and five destroyers left an hour or two later. The east bound traffic was taken to the Hook, where the west bound traffic was picked up. German submarines were evidently watching for it on some occasions and on July 26 at 9 p.m. no fewer than four of them came to the surface alongside the Dutch examination vessel at the Hook, but no traffic was passing that night. The seaplanes from Felixstowe met the homeward bound traffic at dawn and were undoubtedly helpful in keeping down submarines.⁵

¹ July 20, H.S. 1325/243.

² A.O.S., July 18, H.S. 1325/246, 252.

³ Minute, First Sea Lord, June 24, 1917, in H.S. 1568/36.

⁴ Presumably for the landing project on the Flanders coast.

⁵ Commander R. Hornell, H.M.S. *Nimrod*, report in H.S. 1568/52. Orders for escorting in Commodore (T)'s Diary, H.S. 247/208.

287. **Submarine Patrols.**—Submarine Patrols constituted an important part of anti-submarine measures. The North Sea may be regarded as their special area and there they were in special force, patrols being stationed off Muckle Flugga (North of Shetlands), off Fair Island, in the centre of North Sea, off Danish Coast and off the Texel.¹ Off Muckle Flugga were working *G.11*, Lieutenant C. M. S. Chapman, D.S.C., from July 5 to 12 and from July 20 to 28, and *G.8*, Lieut.-Commander C. de Burgh, from July 19 to 27. *G.11* was working with a decoy trawler *Burmah* and on July 6 at 8.47 p.m. in 61° 10' N., 1° 50' W. fired both bow tubes at 1,600 yards at a submarine, probably *U.52*, which managed to alter course in time.² *G.8* on July 23 at 6.34 p.m. in 61° 28' N., 2° 20' W. sighted a submarine bearing 1°, 5½ miles off, steering 90° which drew ahead out of range. At 6.55 another submarine was sighted bearing 335°, 7,000 yards; at 7.11, *G.8* fired three tubes and at 7.24 p.m. the stern tube at 6,000 yards, torpedo to run 8–9,000 yards, 4 points on enemy's quarter, course 239° bearing 44°; at 7.33 a very heavy report was heard and when *G.8* rose, the enemy had disappeared.³

It had been decided in May to establish surface patrols in the Fair Island channel, and off Fair Island *C.22* was patrolling from July 1 to 6, from July 11 to 16, and from July 21 to 26; *C.34* from July 6 to 11 and on July 16 for one day; *C.19* from July 6 to 11 and from July 16 to 21. Enemy submarines were sighted on four occasions, and on July 10 at 3.22 p.m. in 59° 50' N., 2° 19' W., *C.34* found herself being stalked by a periscope and just got down in time. This was a particularly dangerous area, for *U.52* was prowling round it and *C.34* (Lieutenant Ingleby S. Jefferson, R.N.) never returned from her last cruise. She went out on July 16 with *C.19* escorted by the *Medea*. She was to patrol in an area bounded by a line joining Dennis Head (North point of Orkneys) with Fitful Head (South point of Shetlands); on the north by a line drawn 90° from Fitful Head; on the south by a line drawn 90° from Dennis Head, on the east by the meridian of Greenwich. She was to meet *C.19*, 2 miles north-east of Fair Island on July 21, but never returned.⁴ On July 17 at 1.35 p.m. in 59° 49' N., 0° 59' W., *U.52* sighted her on the surface and torpedoed her. Only one survivor was picked up, an able seaman Frank Scobell. Commodore (S) was not in favour of maintaining surface patrols in the track of hostile submarines, as the mere fact of being able to dive in 30 seconds did not render them secure from attack. The

¹ Other patrols were: to the west of Ireland by *Vulcan* and *Platypus* flotillas from Killybegs; off St. Kilda (10th Flotilla, Scapa); and west of Orkneys (10th Flotilla, Scapa). See Commodore (S) Records, H.S.A. 277, 278.

² H.S. 628/23; War Diary, I.D. 3030, July 18.

³ H.S. 628/45. No submarine was identified at the time as having been sunk. *U.99* was not working off Muckle Flugga and was due back about July 12; *U.69* was almost certainly not in the vicinity.

⁴ Captain Leonard Donaldson's report in H.S. 268/38.

point was referred to the Commander-in-Chief who saw no reason to alter the system of surface patrols.¹

288. **Submarine Patrols, 11th Flotilla.**—In the approach to the Bight seven British submarines² put in 59 days of patrol. German submarines were sighted seven times, attacked thrice and fired at twice. On July 7 at 7.40 a.m. in 58° N., 3° 5' E., *J.2*, Lieut.-Commander Vincent M. Cooper, sighted an enemy submarine bearing 30°, course 240°, range 4,500 yards, and fired four torpedoes; at 8.17 a.m. there rose from the enemy's conning tower what appeared to be a black pointed column, distinctly visible, lasting almost a second; the enemy submarine remained in sight for a few seconds then suddenly disappeared; an explosion was heard in the foremost engine room.³

On July 9 at 7.50 a.m. in 57° 35' N., 2° 40' E., *J.5*, Commander E. C. Boyle, V.C., sighted a submarine 135°, 3,000 yards and fired two torpedoes; they seemed to have missed but *U.86* reported she had been hit close to this position by a torpedo which failed to explode.

On the route to the Bight down the Danish coast two British submarines were watching and during July four submarines⁴ were there for 29 days in all. Submarines were sighted six times with three attacks. On July 19 at 3.50 a.m. in 56° N., 8° E., *G.3*, Lieutenant A. B. Lockhart, D.S.C., sighted the conning tower of a submarine 3,000 yards, 45°, and at 4 a.m. fired two torpedoes, two explosions being heard in the engine room. The submarine was probably *U.88* homeward bound and was not hit. On July 28, *J.1*, Commander R. B. Ramsay, at 4.10 a.m. in about 56° 50' N., 8° 16' E., off Lodbjerg Light, sighted a submarine with one gun, steering 210°, and fired four torpedoes at 4,000 yards. The submarine which was probably *U.45* returning home was not hit. On July 28 at 6.15 p.m. in about 56° 59' N., 8° 19' E., *J.1* sighted a submarine and fired four torpedoes which missed. The submarine which was probably *U.45* was not hit. In the southern portion of the North Sea the patrols were provided by the 8th and 9th Flotillas, Captain A. K. Waistell, Commodore (S), at Harwich. During July, 13 submarines⁵ were out

¹ H.S.A. 628/201.

² *J.1*, *J.2*, *G.5*, *J.5*, *G.1*, *J.6*, *G.6*.

³ Report, H.S. 628/26. I.D. in August 1917 stated there was no evidence that a submarine was sunk, and that so far as could be traced all submarines which might have been in the position had returned. The hit was therefore disallowed. H.S. 628/179. It is now known that *U.99* had been working on the Lerwick-Bergen route and was due to return about July 12.

⁴ *G.4* (twice), *G.3*, *G.1*, *J.1*.

⁵ This does not include five submarines minelaying in the Bight and three operating against German trade to Holland off Vlieland. The submarines on patrol were *E.42*, *C.1*, *C.2*, *E.47*, *E.4*, *E.31*, *E.43*, *F.3*, *V.1*, *V.2*, *V.4*, *E.50*, *E.55*. See Commodore (S) reports in H.S.A. 274.

on diving patrol making a total of 96 days. As the German submarines were nearly all using the route along the Danish coasts, the Harwich submarines had no opportunities of attack. There can be little doubt however that the British submarine patrols in the North Sea exercised a powerful influence in keeping enemy submarines below the surface and limiting their opportunities for attack.

CHAPTER XXI.

SUBMARINES, IRISH SEA AND BAY, JULY 1917.

289. **Submarines in Irish Sea, July 1917.**—The Irish Sea was free from submarines up to July 20. On that date a report was received from the British s.s. *Polyphemus*, 4,968 tons, outward bound from Liverpool, that at 3 p.m. in $53^{\circ} 35' N.$, $3^{\circ} 51' W.$ she had been chased by a submarine and missed by a torpedo.¹ The S.N.O., Kingstown (Commodore John Denison) thereupon ordered a number of patrol vessels to sea to strengthen the patrol on the Holyhead to Kingstown route and at the request of the S.N.O. Liverpool, held up vessels bound for Liverpool. Two days passed before the French s.s. *Condé* on July 22 at 5.14 a.m. in the same area in $53^{\circ} 26' N.$, $4^{\circ} W.$, sighted a periscope. This made Buncrana anxious about a convoy (HH7) of 24 ships from Hampton Roads, escorted by H.M.S. *Berwick* which was due next day in the North Channel. It was thought, however, at the Admiralty that the submarine reports were unreliable and Buncrana was informed to this effect. There was a thick fog off Rathlin Island on July 23, into which the convoy ran and became dispersed.²

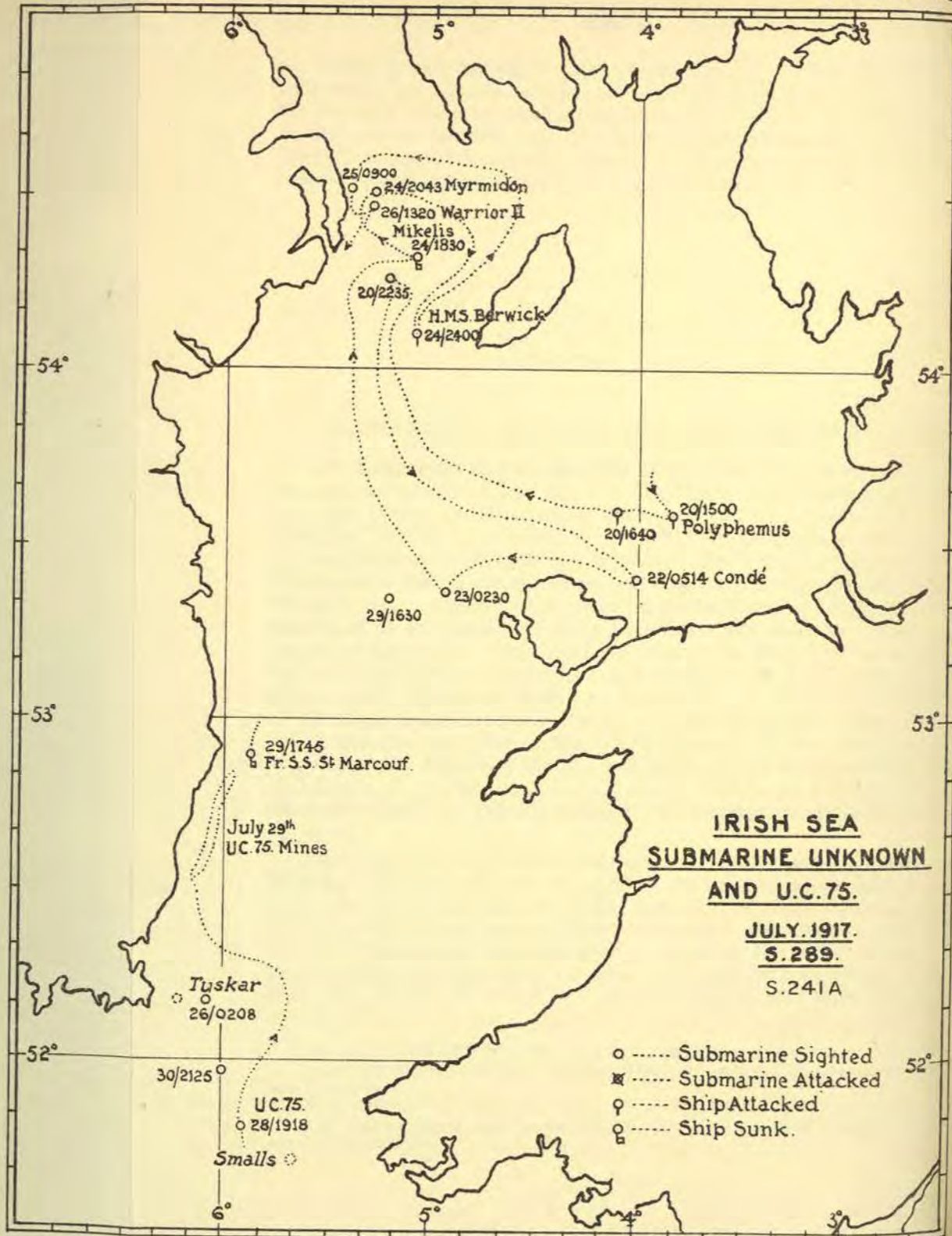
The presence of a submarine was confirmed the next day (July 24) when at 6.30 p.m. in $54^{\circ} 19' N.$, $5^{\circ} 5' W.$ (to the west of the Isle of Man), the Greek s.s. *Mikelis*, 2,430 tons, bound from Bilbao to Glasgow with iron ore was torpedoed and sunk.³ Nothing was seen of any submarine but as there were no mines in the vicinity⁴ her loss must be attributed to a torpedo. A couple of hours later at 8.43 p.m. in $54^{\circ} 30' N.$, $5^{\circ} 17' W.$, the British s.s. *Myrmidon*,

¹ Telegram, H.S. 483/539; report in H.S. 1362/31.

² S.S. *Kaiping* ran ashore near the Mull of Cantyre and s.s. *Clan Macpherson* was in collision.

³ H.S. 1362/33.

⁴ The nearest mines were in $54^{\circ} 42' N.$, $5^{\circ} 34' W.$, laid off Belfast on April 21 by U.C.66.



Naval Staff (T.S.D) Aug. 1938.

4,965 tons, which had been in the *Berwick's* convoy, reported she had been torpedoed,¹ and at midnight in 54° 6' N., 5° 4' W., the *Berwick* (Capt. W. F. Blunt) on the way to Liverpool reported being missed by four torpedoes, whose tracks were clearly discernible in the phosphorescent water.² When the report of the *Mikelis* came in, the Admiralty detained all traffic bound northward through the North Channel and the S.N.O., Liverpool (Rear-Admiral H. Stileman), ordered his patrols to intercept and send into port all vessels bound to North Channel and to Clyde. Despite a dense fog Larne had sent out all his patrols (2 yachts, 7 trawlers and 12 drifters) to hunt. There were two more reports of submarines in the northern part of the Irish Sea on the 25th and 26th, the last report being on July 26 when at 1.20 p.m. in 54° 29' N., 5° 18' W. an armed trawler sighted a periscope. Then all reports ceased. There can be little doubt that a submarine was operating in the northern part of the Irish Sea from July 20 to 26, but she has not been identified and appears to have been one of the submarines (*i.e.*, *U.69* or *U.44*) that did not return. The German Historical Section think it must have been *U.69*³ which had orders to work to the westward and may have entered the Irish Sea. If it was *U.69*, it is possible that it was she that was seen and attacked off Lough Swilly in 55° 17' N., 7° 37' W. on August 7. H.M.S. *Martin* with five other destroyers was leaving the harbour at 3.57 p.m. to go out and meet a convoy when a periscope and conning tower broke surface 1,000 yards off on the port beam. The *Martin* made for the spot at full speed and with the other destroyers⁴ dropped 13 depth charges all of which exploded. The only submarine known to have visited the Irish Sea in July was *U.C.75*. She left Heligoland on July 23 but did not pass Dover till July 26. On July 29 she laid her mines⁵ at irregular intervals between the Blackwater and Arklow banks. The s.s. *Patricia* sighted and sunk one of them about noon and the Milford Haven trawlers began sweeping on July 30, being reinforced on August 1 by two paddle sweepers from Swansea.⁶

U.C.75 remained cruising about in the vicinity and on July 29 at 5.45 p.m. in 52° 46' N., 5° 59' W. torpedoed and sank the French s.s. *St. Marcouf*, 1,117 tons, bound from Glasgow to Bayonne with coal. The ship was not under escort, though there were a couple of patrol

¹ She arrived at Liverpool, apparently undamaged. There are no details of the reported attack, and the matter remains obscure. It seems possible that the *Myrmidon* was reporting the attack on the *Mikelis*.

² Report in H.S. 1362/39. The *Berwick* in her signal stated that small vessels were in the vicinity acting suspiciously. These were Auxiliary Patrol Trawlers with the Armed Yacht *Vanessa* (Holyhead).

³ In which case the destruction of *U.69* in the *Patriot* and *Anzac* incident of July 12 in the North Sea must be ruled out. See S.241a also S.209.

⁴ *Lyra, Lapwing, Goshawk, Ruby and Hydra*. Report in H.S. 1364.

⁵ 52° 52' N. to 52° 30' N., 5° 57' W. to 6° 4' W. Field 319, O.U. 6020A.

⁶ H.S.B. 170/1015.

vessels in sight some 3 miles away. The minefield does not seem to have done much damage, the only ship sunk being the s.s. *Lynburn*, 587 tons, on August 30. At 11.4 p.m. the Admiralty suspended all sailings north of the Tuskar and Smalls, and did not remove the ban till July 31.¹

290. **Submarines, Bay of Biscay, July 1917.**—Working in the Bay during July were *U.84* (July 1–4), *U.C.71* (July 3–4), *U.C.72* (July 3–15), *U.C.17* (July 17–25) and *U.C.69* (July 20–28). The French coastal convoy system had suffered a severe blow on June 24 when at 12.20 a.m. in 44° 25' N., 1° 25' W., *U.C.65* torpedoed the Greek steamers *Taigetos*, 2,961 tons, and *Aghia Paraskevi*, 2,795 tons, proceeding in a convoy of nine ships from St. Jean de Luz to La Pallice escorted by two French armed trawlers. The boilers of the *Taigetos* exploded, the ship broke in two and sank almost immediately. The fore part of the *Aghia Paraskevi* was blown away and she went down within 3 minutes. *U.C.65* then sank with gunfire two more vessels of the same convoy, the Norwegian s.s. *Kong Haakon*, 2,231 tons, and the Greek s.s. *Constantinos*, 3,014 tons. These attacks led the British Consul at Bordeaux to point out that unless the convoys were escorted by fast torpedo craft they were "no more than coveys of partridges." The convoys were again successfully attacked a week later when *U.84*² on July 1 met a French coastal convoy of 12 vessels proceeding southwards from Quiberon to La Pallice, sank the Spanish s.s. *Bachi*, 2,184 tons, bound to Bilbao with coal and torpedoed the British s.s. *Demerara*, 11,483 tons, which succeeded in reaching port. This was one of the only two attacks made on French coastal convoys in the Bay during July.³

Two ships were sunk by mines in the Bay. On July 8 at 12.30 p.m. in 45° 42' N., 1° 18' W., the British s.s. *Vendee*, 1,293 tons sank after striking a mine off the Gironde, laid by *U.C.71* on June 30; on July 11 at 12.50 p.m. in 46° 5' N., 2° 8' W., the French s.v. *Coquimbo*, 1,759 tons, from Antofagasta to Rochefort was sunk by a mine laid by *U.C.21* on April 24.

291. "**U.C.72," June 30–July 19.**—The two most successful of the Flanders submarines in July were *U.C.72* (Bay) and *U.C.65*, the former of which claimed over 22,000 tons, and the latter 11,277 tons, with *U.C.17* close behind with 11,308 tons. *U.C.72*, Lieutenant Ernst Voigt sailed from Zeebrugge on June 30, and by July 3 was in the Bay where at 3.33 a.m. in 46° 54' N., 4° 44' W. she torpedoed the Norwegian s.s. *Henrik*, 3,928 tons, bound, unescorted, from Glasgow to Madeira with 6,287 tons of coal, badly wounding the

¹ H.S. 486/716, 1085.

² See S.234.

³ The *Anglo-Patagonian* sunk by *U.C.72* on July 11 had left her convoy. See S.291.

captain and sinking the ship. She then proceeded southwards and two days later, on July 5, was off St. Jean de Luz where in 43° 24' N., 1° 40½' W.,¹ she laid a field of 18 mines which was discovered the same day, and led to the closure of the port,² 17 mines being swept up by July 20. Turning northwards *U.C.72* was back in the latitude of 46° N. by July 7, and at 6.30 a.m. in 46° 40' N., 9° W. sank by gunfire the United States s.s. *Massapequa*, 3,193 tons, bound from New York to Nantes unescorted. The same day, at 9.50 p.m. in 47° 20' N., 8° 10' W. she stopped and sank with bombs another American vessel, the United States s.v. *Mary W. Bowen*, 2,153 tons. Next morning, July 8, at 6.30 a.m., in about 47° 18' N., 7° 26' W. she stopped and sank with bombs the Danish steamer *M. I. Mandal*, 1,886 tons, bound from Bathurst to Liverpool, and at 9 a.m. in 47° 18' N., 8° W. attacked the British s.s. *Peebles*, 4,284 tons, which escaped. Continuing northwards she opened fire at 2 p.m. (July 8) in 47° 35' N., 7° 40' W. on the French s.v. *Cambronne*, 1,863 tons, homeward bound from Rio de Janeiro with a cargo of nitrates. The *Cambronne*, which carried no gun, was abandoned and sent to the bottom with bombs. *U.C.72* was still in the same vicinity at 4.30 p.m. next day, July 9, when she attacked and sank with bombs the French s.v. *Ceres*, 296 tons, on passage from Lisbon to Brest. On July 10 at 1.30 p.m. in 46° 47' N., 7° W. she was attacked and driven down by the French patrol vessel *Gloire*. She then made for the coast and at 12.50 a.m. on July 11, in 46° 20' N., 2° 15' W. torpedoed and sank the British s.s. *Anglo-Patagonian*, 5,017 tons, bound from New York to Bordeaux with a valuable cargo of nitrates; the ship was unescorted; she had left Quiberon with a southward bound coastal convoy that day but had received permission at nightfall to go on independently. *U.C.72* returned to her original cruising area where on July 14 at 8.35 a.m. in 47° 28' N., 6° 46' W. she attacked unsuccessfully the French s.s. *St. Marc*. On July 15 at 3.30 p.m. in 47° 28' N., 6° 28' W. she torpedoed and sank without warning the British s.s. *Trelissick*, 4,168 tons, an Admiralty transport on passage from Boston to Bordeaux, unescorted, with a cargo of grain and steel. The *Trelissick* was her last victim and she reached home safely on July 19 having sunk eight vessels of 22,522 tons.

292. "**U.C.17" in the Approach to the Bay.**—*U.C.17* was working in the approach to the Bay from July 17 to 25 approximately in latitude 47° to 48° and longitude 7° to 10° W. On July 17 at 5.15 p.m. in 47° 51' N., 6° 41' W. she attacked and missed the French s.s. *Malte*, 9,600 tons, bound from Buenos Aires to Havre, unescorted. On July 20 at 12.30 p.m. she torpedoed and sank the British s.s. *City of Florence*, 5,399 tons, from Valentia to London. It was

¹ O.U. 6020B. Field 45.

² H.S. 478/758.

probably *U.C.17* that on July 20 at 10.45 p.m. in 47° 29' N., 6° 20' W.¹ torpedoed the Japanese s.s. *Kagishima Maru*, 4,687 tons, proceeding from New York to Brest. The ship sank in 5 minutes. On July 21 at 10.21 a.m. in 46° 52' N., 7° 21' W., the French s.s. *La Perouse*, 9,717 tons, was attacked with gunfire but escaped after a 4 hours chase. At 6.30 p.m. in 47° 20' N., 7° 45' W., the American s.v. *Augustus Welt*, 1,222 tons, bound from New York to Havre was stopped and sunk with bombs. None of these ships were in convoy or escorted. *U.C.17* seems to have then approached the coast for on July 25 at 3 p.m. the French airship *Capitaine Coussin* sighted and attacked a submarine which dived. *U.C.17* returned to Zeebrugge on July 29 having sunk 11,308 tons.

293. "U.C.71," June 24–July 8.—*U.C.71* left Zeebrugge on June 24 and was in the Bay on June 28. At 9.55 p.m. in 46° 58' N., 2° 35' W. off the Loire she (or possibly *U.C.61*) torpedoed the French s.s. *Marne*, 4,019 tons, bound from Sunderland to Bordeaux with coal. The *Marne* was at the head of a French coastal convoy of seven vessels.² *U.C.71* laid nine mines that night (June 28) off the Loire (Field 441) and on June 29 at 6.30 a.m. in 46° 59' N., 2° 29' W. met the Greek s.s. *Driskos*, 2,833 tons, bound from Bona to Middlesbrough with 4,035 tons of ore. She had left St. Jean de Luz in convoy but had parted from it and was sunk by gunfire. At 10.5 a.m. in 46° 37' N., 2° 45' W., *U.C.71* was sighted and unsuccessfully attacked by French *T.B.338*; she was sighted thrice that afternoon by French patrols³ and laid nine mines that night off the Gironde. On July 3 at 6 p.m. in 47° 7' N., 7° 27' W. she was sighted by U.S. yacht *Noma* and at 9.44 p.m. in 47° 12' N., 7° 40' W. she torpedoed and sank the American s.s. *Orleans*, 2,853 tons, proceeding from New York to Bordeaux, without escort. *U.C.71* then went off to northward and on July 5 at 6.15 a.m. in 49° 32' N., 7° 10' W. opened fire on the British s.s. *Clan MacIntosh*, 4,774 tons, bound from Montreal to Portishead, which returned the fire with her 13 pdr. guns and going on at full speed escaped. At 9.10 a.m. in 49° 8' N., 7° 18' W. she met the Queenstown decoy ship *Aubretia* and, after exchanging shots, submerged without being brought to close action. On July 6 at 7.50 a.m. in 49° N., 5° 50' W. she stopped the Norwegian s.s. *Lovstakken*, 3,105 tons, bound from Newport to the Azores, and sank her with bombs.⁴ Then proceeding eastward at 1.20 p.m. in 49° N., 5° 8' W. she stopped another Norwegian steamer the *Victoria II*, 2,679 tons, bound from Barry to New York, and sank her with bombs. *U.C.71* was then on her way back to Zeebrugge,

¹ Position is probably too far east.

² Etude, p. 107.

³ Etude des Mouvements, Juin, p. 107.

⁴ The *Lovstakken* reported two submarines; the second has not been identified.

which she reached on July 8 having sunk altogether five ships and 15,489 tons, and in July 3 ships and 8,673 tons.

294. "U.C.69," July 16–August 4.—*U.C.69*, Lieut.-Commander Erwin Wassner, left Zeebrugge on July 16 and according to a German report laid her mines off the Raz de Sein¹ (Brest Approach), i.e. in about 47° 59' N., 4° 48' W. She proceeded to the coasts of Spain and Portugal and on July 20 at 3.15 p.m. opened fire at long range on the French s.s. *Niagara* without effect. On July 23 at noon off Cedeira, she stopped and examined the Danish s.v. *Maria* and let her go on; at 2.30 p.m. in 43° 39' N., 8° 13' W. she stopped the Norwegian s.s. *Frithjof*, 1,389 tons, bound from Tunis to Maryport with ore and sank her with bombs in spite of the Captain's claim that she was in neutral waters.² On July 24 at 6 a.m. in 43° 45½' N., 8° 5' W. she stopped the British s.s. *Sir Walter*, 492 tons, bound from Swansea to Oporto with coal and sank her with bombs. The *Sir Walter* had crossed the Channel safely on July 13 with a French coal trade convoy, and had then proceeded in coastal convoys to St. Jean de Luz. The master asserted that she was within 2½ miles of the Spanish coast when attacked. *U.C.69* was evidently making a dead set at the Spanish coastal route for on July 25 at noon in 43° 5' N., 9° 22' W. she attacked the Norwegian s.s. *Baldwin*, 1,130 tons, bound from Gambia to Liverpool, and sank her with bombs. The French s.s. *Asturienne* which sighted the submarine and opened fire hugged the coast too closely, struck a rock and sank. *U.C.69* then proceeded south and on July 26 at 2 p.m. in 41° 31' N., 9° 6' W. sank with bombs the Portuguese s.v. *Bertha*, 100 tons, from Bordeaux to Lisbon in ballast and the Portuguese s.v. *Venturosa*, 420 tons, from Lisbon to Rouen with wine. At 6.30 p.m. in 41° 30' N., 9° 8' W., the Norwegian s.s. *Locksley*, 2,487 tons, bound from Liverpool to Gibraltar with coal suffered the same fate. At 11.30 p.m. in misty weather the French patrol vessel *Fuchsia* was missed by a torpedo. Two days passed before *U.C.69* could claim another victim. On July 28 at 8.25 p.m. in 43° 22' N., 8° 50' W. she stopped the Norwegian s.s. *Hildur*, 961 tons, from d'Aguilas to Glasgow with a cargo of esparto grass. According to the master's statement the Germans took the ship, which was then some 2½ miles from land, to the westward and sank her apparently with bombs. On July 29 at 8.30 a.m. in 43° 44' N., 8° 6' W. the Norwegian s.s. *Gyldenpris*, 2,667 tons, bound from Aguilas to Cardiff with ore was stopped with gunfire and in spite of the master's statement that he was in neutral waters was sunk with bombs. This was *U.C.69*'s last ship. She was back in Zeebrugge on August 4 after her attack on the Spanish coastal route where she had sunk eight ships and 9,646 tons.

¹ Not in list of German minefields.

² N.I.D. 14642 in I.D. Vol. 652.

295. **Submarine Warfare, May–July 1917.**—In the North Sea the German submarines concentrated in July on the Lerwick–Bergen route, leaving the route up the East Coast almost immune from attack. This concentration may have had a political aspect for in Norway antagonism to Germany was growing and Norwegian agents were refusing to act for German companies. There was in addition the old question of territorial waters. On May 16 a German submarine had captured the Norwegian s.s. *Thorunn* between 3 and 4 miles from the coast; two Norwegian torpedo boats had intervened and rehoisted the Norwegian flag, but the German submarine refused to admit their claim and rehoisting the German flag sent the ship off to Stettin; on a demand by the Norwegian Government for its release, Germany had insisted that Norwegian patrols should not intervene in the case of ships over 3 miles from shore.¹

296. **Results of Submarine Warfare.**—The diminishing figures of sinkings were affecting German opinion and the naval writer, Captain Persius, in the *Berliner Tageblatt*, did not hesitate to state that Germany must discount the great hopes founded on the submarine campaign. On June 16, 1917, there had been appointed in the United States a Committee of Control of exports whose action was resulting in a grave food shortage in Sweden. In Holland a considerable amount of German traffic had still been able to pass down the coast but this had met with a nasty check from the attack by the Harwich forces and submarines in July (see S.188). The sinkings by submarines had by no means fulfilled the expectation of the German Naval Staff and a strong opinion was growing that a final victory could not be achieved by these means, which was reflected in a motion for peace moved in the Reichstag on July 19. In view of the heavy losses inflicted on German submarines in British waters, it was thought desirable to make greater use of large submarines working off the Azores and Canaries, and *U.155*, the *Deutschland*, had been sent off on May 23 on a pioneer cruise in this area. France was also re-organising her anti-submarine organisation. By a French decree of June 18 all the services engaged in the contest against the submarine were placed under the "Direction-générale de la guerre Sousmarine," corresponding to the Anti-Submarine Division of the Naval Staff, with Admiral Merveilleux du Vignaux as directeur général, while in the French coastal zones surface and air patrols on the coast were placed under the authority of the "chefs de divisions de patrouilles." The situation in the Mediterranean had been under careful review and on July 24 the Conference at Paris sanctioned the proposals of the Corfu Conference of April 24 for the establishment of a single control for routing and mercantile movements in the Mediterranean under a British Commander-in-Chief at Malta.

¹ The Norwegians claimed a 6-mile limit.

297. **Disorders in German Fleet, May–August.**—Such was the situation when in 1917 symptoms of a grave weakness began to appear in the High Sea Fleet. In May, 1917, there was an outburst of insubordination in the 4th Battle Squadron among some ratings and stokers of the battleship *Kaiserin* who refused to carry out the daily routine, though order was restored by the grant of an extra bowl of soup on relieving watch at night. The leaders of some small groups on board were in touch with political parties in the Reichstag, and delegations were attending secret conferences on shore and circulating pamphlets in favour of peace. In July, 1917, at Kiel where the 4th Battle Squadron had gone for training and target practice, a serious riot broke out in the *Prinz Regent Luitpold*, which was known as the "convict ship." There was a disturbance too over coaling ship and on July 19 in the Kiel Canal on the way back to Wilhelmshaven, a number of men went on "hunger strike." When the 4th Battle Squadron returned to Wilhelmshaven the leaders of these disturbances set to work to enrol members and by the end of the month their numbers had greatly increased. On August 1 disorder broke out afresh in the *Prinz Regent Luitpold* and 50 stokers broke out of the ship and held a meeting ashore. Two days later on August 3 almost the whole of the crew walked ashore and held a mass meeting, though they obeyed an order for the ship to proceed to Schillig Roads. The disorder spread to the *Kaiserin* and similar outbreaks on a minor scale occurred in the *König Albert* and *Kaiser*. The flagship, the *Friedrich der Grosse*, had caught the infection and was at one time in a state of general uproar. The *Kaiser*, *Kaiserin* and *König Albert* were ordered to Brunsbüttel and the men given leave with better food, games and concerts, which tended to alleviate the situation. Smaller outbreaks occurred in the *Markgraf* and *Kronprinz* of the 3rd Squadron and the *Ostfreesland*, *Thuringen* and *Westfalen* of the 1st Squadron. Out of 22 large ships including the battle cruisers, no less than 10 were involved. Though these disturbances did not extend to the submarine service, yet they may well have affected their spirit. In Germany at the end of July, 1917, there could be little hope of intensifying the submarine campaign. In England convoy was only beginning to get into its stride, and a vast reserve of further effort was beginning to materialise.

APPENDIX A.
TELEGRAMS.

A.1

5.5.17.

From Naval Attaché, Washington, to Admiralty.

Urgent. 8. Your telegram May 3rd. Navy Department (? were) very strongly against convoy scheme and I put forward an alternative of small separate convoys not exceeding four and accompanied by two Destroyers. They held long conference and have handed me memorandum making following points.

One. Navy Department fully appreciates advantage of utilising Destroyers on passage.

Two. Does not consider it desirable to attempt to carry out convoy outlined for various stated reasons.

Three. Suggests instead as an experiment sending groups of four of equal speed convoyed by two Destroyers.

Four. Will assist Admiralty every possible way to carry out Admiralty plan as an experiment if Admiralty so desires.

Five. Halifax is suggested as a rendezvous on account of cruising radius of Destroyers to be employed.

They are sincerely keen to help and will undoubtedly support any scheme to full extent of their power if Admiralty (? wish).

Addressed Admiralty number eight. Repeated Halifax. (H.S. 655/477.)

A.2

15.6.17.

564. From Admiralty to C-in-C., G.F., 352 to C-in-C., Devonport, to V.A. Milford, etc. 5.45 p.m. :—During absence of V.A. Bayly 18 June to 23 June inclusive V.A. Sims will take general charge of operations of vessels in Irish command. His directions will be given through S.N.O. Queenstown and ordinary routine of correspondence and telegrams will not be affected. (H.S. 461/749.)

A.3

20.6.17.

782. From Ad. Queenstown to Admiralty, 12.43 a.m. :—From V.A. Sims for Sec. Navy, Washington. Efficiency of force and safety of ships and personnel requires immediately a reserve of experienced officers and men particularly officers and petty officers. Officers and men who are incapacitated by sea or other sickness or inaptitude or inexperience must be replaced immediately. Have redistributed officers to give minimum of ? 5 on each ship taking majority of watch officers from parent ships. British experience shows that each ship should have 6. Have relieved executive of one ? ship and engineer of another for inaptitude and inexperience. Others should be relieved for chronic sea-sickness and inexperience. Already one merchant ship sunk probably due to one of watch officers on escorting destroyer. No further reliefs or possibilities of exchange. This service demands experience. Officers now going from strenuous bridge duty to exacting engine room and other duty. Request reserves previously requested be sent immediately by mail steamer if above conditions result in loss of vessels or lives we will have no possible defence. (H.S. 462/1110.)

A.4

20.6.17.

784. From Ad. Sims to Admiralty, 2.57 a.m. :—With full appreciation of the importance of naval activities in other areas the conclusion cannot be escaped that the approaches to the Irish Sea and Channel are the critical areas in which the safety of our lines of communication are at stake and hence the issue must be decided. Owing to the necessity of convoying troops the forces available for this area will in the next 2 days be reduced to 6 destroyers and 6 sloops in active operation and 4 of each in reserve. Even if worked to the limit this is insufficient either to patrol the area or convoy valuable cargoes much less both and if more forces are not made available this must necessarily result in the loss of an excessive amount of shipping particularly if the enemy should concentrate his efforts in this area. The situation existing in this area yesterday 18th June and to-day Tuesday which is now more or less typical was very serious. The majority of the forces were escorting single ships with valuable cargoes inward bound, thus leaving all shipping following them unprotected. With attacks on ships with single escort becoming more frequent it would seem suicidal not to put the convoy system into the fullest possible effect immediately and applied to all merchant vessels, thus forcing submarines at least to encounter anti-submarine craft in order to attack shipping. Personally I feel reasonably certain that the United States will soon increase their destroyer forces in this area and that additional anti-submarine vessels will be sent as soon as practicable. (H.S. 462/1122.)

A.5

20.6.17.

786. From Ad. Queenstown to Admiralty, 12.10 p.m. :—V.A. Sims for Sec. Navy, Washington. The immediate despatch to this area of all possible destroyers and anti-submarine craft of any description is mandatory if the submarine issue is to be effectively met. During absence of destroyers for escort duty with troops transports the forces in this area reduced to only 10 destroyers and 10 sloops only 6 of each in operation at a time. This requires 5 days at sea with 2 days in port which cannot be continued with reliability. Other areas are similarly short of sufficient forces to meet the situation. Yesterday the majority of these forces were engaged in escorting individual inward bound valuable ships thereby leaving all shipping following them unprotected. Ships sunk yesterday as far W. as 17° 30'. It will seem suicidal if the convoy system, as proposed by the British Adty is not put into immediate operation and applied to all shipping thus forcing submarines to encounter anti-submarine craft in order to attack shipping. It is impossible to carry on partial convoy and partial patrol system. Both cannot be done, the former much better than present system which is not succeeding. Urgently request information of Departments action on this despatch and upon previous despatches. A decision is necessary before decisive action can be taken on this side. (H.S. 462/1225.)

A.6

20.6.17.

790. From Ad. Queenstown to Admiralty, 4.11 p.m. :—A cursory study of routes followed by shipping from about 24th May to 20th June indicates that about 87 ships or over 60 per cent. traffic in northern approach zone crossed 15th meridian within 40 miles between 52.20 N. and 53 N. The possibility of enemy being aware of this concentration particularly as majority of our patrol craft are engaged in escort duty would seem probable. The subject is presented upon possibility that some officers concerned may not have had their attention directed to this specific point. (H.S. 462/1308.)

A.7

20.6.17

452. From Admiralty to Ad. Devonport, 6.3 p.m. :—A large number of ships will be coming in on approach route A during the next few days owing to trade at Gibraltar having been held up from 8th June to 15th June. Every endeavour is to be made to pass the war warning to these ships to keep S. of 47° 30' N. between the meridians of 17° W. and 10° W. and also to protect the route. (H.S. 462/1373.)

A.8

20.6.17.

676. From Admiralty to C.-in-C. G.F., 505 to Ad. Queenstown, 112 to Buncrana, etc., 8.32 p.m. :—A ship of 10th C.S. is to be detailed forthwith to proceed to 25° W. and patrol between the parallel of 48° N. and 52° N. with orders to divert all shipping from making the S.W. coast of Ireland. (H.S. 462/1426.)

A.9

21.6.17.

825. Ad. Queenstown to Admiralty, 6.58 p.m. :—For Sec. Navy, Washington from V.A. Sims. Trust have made critical nature of military situation entirely clear. I consider it my duty to report that if we cannot offer more immediate actual assistance even to the extent of sending the majority of vessels patrolling our own coastline which materially affect(s) the general situation we will fail to render the service to the Allied cause which future history will show to have been necessary. My recommendations concerning the convoy system were not based upon American vessels but upon all Allied shipping for it is upon the preservation of the remainder of this shipping that our success depends. It is assumed here that the comparative immunity of American steamers from S/M attack is due to German (? belief—omitted) that such a policy will strengthen the peace propaganda in America. This is apparently clearly indicated by the German press extensive experience has shown that arming merchant ships does not protect from attack but simply forces the S/M to attack without warning thus obliging her to use up her torpedoes and shorten her cruise. Armed merchant steamers are being sunk daily off this port. The success of the convoys so far brought in shows that the system will defeat the S/M campaign if applied generally and in time. The system is merely a plan that obliged the S/M to fight anti-S/M craft in order to attack merchant ships. The present campaign is not succeeding. The necessity is again presented of sending all destroyers tugs yachts and other craft which can reach the critical area by themselves or part way by reserve battleships or any Naval Vessels. If the situation is not made clear I hope the department will indicate the further information required. Time is a vital element in any measures taken. (H.S. 463/262.)

A.10

21.6.17.

528. From Admiralty to C.-in-C. Queenstown, 6.40 p.m. :—For V.A. Sims from 1st S.L. Admiral De Bon telegraphs that on receiving from you dates and positions of rendezvous he will send his patrols there. (H.S. 463/281.)

A.11

21.6.17.

529. From Admiralty to C.-in-C. Queenstown, 7.28 p.m. :—For V.A. Sims. Admiral Duff enquires if and when you can allocate sufficient destroyers to convoy duty to have eight available at all times for use in escorting through S/M zone one convoy per week from New York. (H.S. 463/306.)

A.12

22.6.17.

846. Ad. Queenstown to Admiralty, 7.55 p.m. :—For Sec. Navy, Washington, from V.A. Sims. The British Adty. have now adopted the convoy system and will put into full effect as fast as heavy ships can be obtained for high sea convoy against raiders and destroyers for escort duty in S/M zones. As previously reported convoys are in successful operation from Mediterranean and Hampton Roads. Plans are in hand for total of 8 convoys a week as follows: 2 from Gibraltar, 2 from Hampton Roads, 2 or 3 from New York, 1 from Canada the latter preferably being combined with the New York convoys. One a week from New York will be put into operation as soon as possible with British cruisers in absence of our support. I again urgently advise our full support assisting and co-operating in assembly of convoys and furnishing 1 cruiser or reserve battleship a week for high sea escort. Reserve battleships are admirably suited for this duty which will not interfere with personnel training for which I understand they are now being used. I again submit the necessity for increase of anti-S/M forces based on Queenstown in order to insure safe passage of convoys and shipping through this area. This is best area in which all our Naval co-operation can be concentrated. It is through this area which the vast majority of mercantile shipping from U.S.A. must continue to pass throughout war. All seagoing protection on our own coastline is futile as long as enemy does not attack shipping from our ports in that area. Enemy area of attack must remain in East Atlantic waters to be successful. All material assistance from U.S.A. will be dependent upon safe passage of shipping through war zone. (H.S. 463/696.)

A.13

From Admiralty to Naval Attaché, Washington.
For Secretary of the Navy.

8.7.17.

Number eightyfour. Replying your number thirtyone all assistance which Bureau of Ordnance can render in manufacture of efficient type of mines and depth charges will be invaluable. British output at present in excess of available ships to handle but numbers ships being increased. Can we furnish minelayers as well as mines. Admiralty experience now indicates necessity for abandoning entirely the Elia lever type in favour of the German Horn type with horns on bottom as well as top. Also necessity for increased buoyancy to oppose tides. Latest type will have five hundred pound buoyancy and thirteen hundred pound anchors. For mining against submarines they are now using fixed instead of automatic depth anchors as one floating mine or mine near surface discloses an entire field. Many designs of mines effective against submarines but ineffective against surface craft have been considered but no satisfactory type developed to date, Admiralty would appreciate information if such a mine has been developed. Drawings of latest British mine of horn type forwarded twentyeight June. Nets, moorings and wire gear generally are available to the extent to which they can be used and it is urgently necessary to reduce demands on shipping. Admiralty greatly appreciates Departments offer. Brazil is asking England for nets. Can we meet her demands. Delay in answering this cable due to impossibility of keeping up with work here with present staff. (H.S. 656/1098.) SIMS.

A.14

From Washington to Admiralty.

9.7.17.

209. Following from Commodore Gaunt for Admiral Sims.

Future ? cross water operations concerning safe transportation of our troops to France is one of the most important operations of future. For this purpose every guarantee has been given to War department that every effort will be made by the Navy Department to safeguard lives of the soldiers in crossing. From the interned German ships 14 of fastest largest and best will be commissioned under complete ? naval control and used to take over the troops. It is of the utmost importance these ships should receive greatest protection on the passage in and owing to the valuable nature of ships and difficulty of obtaining others in their place if lost it is desirable to guard them on passage ? in ? Atlantic. Will you therefore submit an outline you consider the best method of carrying out such operations after you have consulted various authorities especially the French. About four thousand troops will be despatched in each ? ship. Do you think that they should sail in company or singly ? During the voyage in, what protection can they expect from our Destroyers and what from the French ? Also on the voyage out what protection can and will be (given ?—omitted) by French or do you contemplate providing that from our own Forces ? In addition to sending you all the information in advance possible should we request from you a rendezvous for each ship or group of ships leaving here and a course in from there or will you in advance set out a course both of which will be understood to hold good until you change the same (note of interrogation) Should the army supply ships, large number of which will be of moderate speeds, sail together in groups or singly so that greatest security may be given them in that part of voyage when it is the most essential (note of interrogation) Even if these points have been discussed by you it is desirable to have them clearly indicated so that greatest efficiency and co-operation may be obtained from our combined efforts. (H.S. 656/1119.)

A.15

FRENCH COAL TRADE

R.A., Falmouth.

To Commodore, Portland.

C.-in-C., Portsmouth.

Date 30.6.17

Sent 0210

Please verify following figures for months of March, April, May and June ; June from 1st to 23rd inclusive.

- 1 equals number of F.C.T. vessels from English coast to French coast.
2 equals number of F.C.T. vessels from French coast to English coast.
3 equals number of vessels lost either going or coming back.

To Falmouth.		To Portland.		To Portsmouth.	
March	1 159	March	1 77	March	1 399
	2 205		2 44		2 316
	3 Nil		3 Nil		3 2
April	1 133	April	1 84	April	1 473
	2 268		2 64		2 361
	3 2		3 Nil		3 Nil
May	1 201	May	1 88	May	1 447
	2 253		2 154		2 290
	3 3		3 Nil		3 1
June	1 155	June	1 123	June	1 369
(1st-23rd	2 186		2 138		2 211
inclusive)	3 2		3 Nil		3 1

(H.S. 465/822.)

APPENDIX B

SHIPS MINED IN THE CHANNEL, CLYDE AND BAY
MAY, 1917.

Date.	Vessel.	Tons.	Mines laid by	
2	H.M.S. <i>Derwent</i>	—	U.C.26	Havre, May 2. Sunk.
3	British s.s. <i>Ussa</i>	2,066	U.C.26	49° 41' 20" N., 1° 39' W. Sunk.
12	British s.s. <i>Galicía</i>	5,922	U.C.17	Off Teignmouth. Sunk.
18	A.T. <i>Lucknow</i>	—	U.C.36	Off the Nab. Sunk.
18	British s.s. <i>Camberwell</i>	2,589	U.C.36	Off the Nab. Sunk.
18	British s.s. <i>Elford</i>	1,739	U.C.36	Off the Nab. Sunk.
19	A.T. <i>Kumu</i>	—	U.C.17	Beer Head. Beached.
22	Norwegian s.s. <i>Nann Smith</i>	2,930	Probably U.C.69	Off Quiberon, ¹ Biscay. Sunk.
22	A.T. <i>Merse</i>	—	U.C.65	55° 34' N., 4° 55' W. (Clyde). Sunk.
26	Norwegian s.s. <i>Norhaug</i>	1,245	U.C.21	47° 15' N., 2° 30' W. off Loire. Sunk.
30	British s.s. <i>Lisbon</i>	1,203	U.C.62	Off Royal Sovereign. Sunk.
30	British s.s. <i>Corbett Woodall</i>	917	U.C.36	Off Nab. Sunk.

APPENDIX C

DOVER BARRAGE² (S.180)

ALTERATION OF POSITION

Admiralty to Vice-Admiral, Dover,
G.01658/17/13168.

9 May, 1917.

Sir,

With reference to your letter dated 22 April 1917, No. 1295/C/106/M respecting the mines dragging near the barrage, I am commanded by my Lords Commissioners of the Admiralty to inform you that the actual position of mines laid, relative to the barrage buoys as shown on the chart was reported to you and a tracing showing the positions of all lines was forwarded to the Captain (M).³ Many of the barrage buoys were however considerably out of position. The mines were laid as nearly in the positions ordered as was

¹ "Foreign Vessels, Sunk and Damaged," p. 106, says "Off Ushant." Position was 47° 32' N., 3° 15' W.

² H.S.A. 428/111.

³ Plan is in H.S.A. 428/641 Dover Papers.

practicable. The question whether the sinkers dragged still remains open. They may have done so, but it seems equally probable that the buoys dragged towards the mines.

I am therefore desired by Their Lordships to ask you to state if the barrage buoys are still in the positions in which they were laid.

(Signed) W. GRAHAM GREENE,
Secretary of the Admiralty.

Captain Frederic G. Bird to Vice-Admiral, Dover (extract).

13 May, 1917.

The buoys have dragged in some places, particularly between 1C and 4A where the tide is strongest. I am certain that . . . the alteration has not been to S.W. The whole tendency of barrage buoys is to N.E. We have now hauled several British mines in our nets and on sweeping barrage on S.W. side on May 11 with a pair of paddle minesweepers from 10A to 14B in which position barrage buoys have held well and varied their positions very little 70 British mines were swept up, and minesweeping officer reports that outside sweeping vessel was never more than 500 yards from line of buoys.

Vice-Admiral, Dover, to Admiralty. 19 May 1917. Received 4.43 p.m.¹

Owing to the deep mines by the barrage dragging into the nets I have been obliged to remove the nets temporarily from Nought A to 15A and drag the mooring clear to the N.E. and sweep up the mines. . . .

A.S. to Captain D. C.D.P. *Arrogant*, June 27. 9 a.m.

The barrage from 10A buoy to the westward is being moved to the south-westward as follows—10A buoy to a position 51° 7' 45" N., 1° 46' E. and the barrage line will run from this point in a N.W. by W½ W. magnetic direction to Goodwin Sands. From 10B to 15A buoys will remain as at present.

APPENDIX D.

SHIPS SUNK, JUNE 1917, BY MINES LAID BY SUBMARINES.

NORTH SEA.

- June 10. British s.s. *Dulwich*, 1,460 tons, in 52° 8' N., 1° 45' E., Aldborough ; Field 400,² *U.B.12*, June 3.
- June 16. Norwegian s.s. *Tosto*, 1,234 tons, 59° 18' N., 3° 5' W., Orkneys ; Field 254, *U.C.49*, June 9.
- June 17. H.M.T. *Fraser*, 50° 45' N., 1° 31' E., Boulogne ; Field 432b, *U.C.65*, June 17.
- June 18. Danish s.s. *Dorte Jensen*, 2,086 tons, 51° 30' N., 1° 23' E., Tongue ; Field 413, *U.C.6*, June 16.
- June 24. H.M.S. *Kempton*, minesweeper, 51° 3' N., 2° 7' E., Gravelines ; Field 418, *U.C.1*, June 22.
- June 24. H.M.S. *Redcar*, minesweeper, 51° 3½' N., 2° 7½' E., Gravelines ; Field 418, *U.C.1*, June 22.
- June 25. H.M.T. *Gelsina*, 57° 7' N., 1° 58' W., Aberdeen ; Field 257, *U.C.40*, June 19.

¹ H.S. 417/515.

² *Note*.—The number of the Field is the number in Statement of German Mines, O.U. 6020A and O.U. 6020B.

CHANNEL.

- June 18. H.M.T. *Borneo*, 50° 40' N., 0° 12' E., Beachy Head ; Field 440, *U.C.17*, June 18.
- June 24. H.M.T. *Taiipo*, 50° 41½' N., 0° 19' E., Beachy Head ; Field 430, *U.C.62*, June 23.

BRISTOL CHANNEL.

- June 3. Italian s.s. *Portofino*, 1,754 tons, 50° 10' N., 5° 45' W., Cornwall ; Field 364, *U.C.47*, April 17.
- June 12. H.M.T. *Carew Castle*, 50° 58' N., 4° 36' W., Lundy Island ; Field 423, *U.C.47*, June 6.
- June 24. Dutch s.s. *Hilversum*, 1,505 tons, 51° 6' N., 4° 45' W., Lundy Island ; Field 423, *U.C.47*, June 6.

IRELAND NORTH.

- June 14. British s.s. *Carthaginian*, 4,444 tons, 55° 28' N., 7° 21' W., Inishtrahull ; Field 251, *U.79*, June 14.
- June 23. H.M.T. *Corrientes*, 55° 27' N., 7° 24' W. ; Field 251, *U.79*, June 14.
- June 26. H.M.T. *Charles Astic*, 55° 22' N., 7° 46' W. ; Field 250, *U.79*, June 13.

BAY.

- June 2. Norwegian s.s. *St. Sunniva*, 1,140 tons, 43° 26' N., 1° 40' W., Adour ; Field 412a, *U.C.72*, June 1.
- June 7. Danish s.s. *Hafnia*, 1,619 tons, 45° 22' N., 1° 15' W., Gironde ; Field 421c, *U.C.21*, May 24.
- June 14. Greek s.s. *Nivefs*, 4,030 tons, 48° 3' N., 4° 46' W., Raz de Sein ; Field 366b, *U.C.36*, April 22.
- June 17. French s.s. *Anjou*, 771 tons, 43° 37' N., 1° 33' W., Adour ; Field 415, *U.C.48*, June 12.

MEDITERRANEAN.

- June 25. British s.s. *Anatolia*, 3,847 tons.
- June 30. French s.s. *Caledonien*, 4,140 „
- June 30. Italian s.s. *Enrichetta*, 3,683 „
- 11,670 „

Note.—The Norwegian s.s. *Cissy*, 3,030 tons, given in Foreign Vessels, Sunk or Damaged, as mined off Ushant on June 16 at 7.50 a.m. in 48° 35' N., 5° 8' W., was probably torpedoed by *U.C.48*. No mines were laid in this position. The Norwegian s.s. *Karpsno*, 1,766 tons, give as mined, was probably torpedoed in a French Coal Trade convoy in 44° 18' N., 1° 35' W.

	TOTAL		
	Ships.	Tons.	Minesweepers.
North Sea	3	4,780	4
Channel	—	—	2
Bristol Channel . .	2	3,259	1
Ireland, North . .	1	4,444	2
Bay	3	7,560	—
Mediterranean . .	3	11,670	—

Total : 12 ships, 31,713 tons, 9 minesweepers.¹

¹ Including minesweeping trawlers.

APPENDIX E.

COMMODORE (T)'S ACTION, JUNE 5, 1917.

All times a.m. G.M.T.

(Section 139.)

- June 5. Harwich Force: *Centaur* (Broad Pendant), *Canterbury*, *Conquest*, *Concord*, *Lightfoot*, *Surprise*, *Truculent*, *Starfish*, *Recruit*, *Taurus*, *Sharpshooter*, *Satyr*, *Torrent*.
- 2.27 a.m. *Lightfoot*, 1 mile ahead of *Centaur*, steaming 15 knots south-west sights smoke S.S.W. and reports it by searchlight. Smoke proves to be from two destroyers.
- 2.30 Commodore (T) (in *Centaur*) sights smoke, fine on port bow, when steaming 15 knots south-west, in 51° 36' N., 2° 51' E., i.e., 13½ miles N.N.W. of Ostend.
- 2.33 *Lightfoot* challenges, but gets no reply.
- 2.35 Enemy opens fire (according to Commodore (T)); according to *Taurus* and *Satyr*, 2.34 a.m.; according to *Lightfoot*, 2.40 a.m.
- 2.36 *Taurus* opens fire.
- 2.38 British return fire; hits observed on one of enemy destroyers at 2.38.
- 2.40 *Taurus* alters course south 20 knots. *Sharpshooter* opens fire.
- 2.42 Commodore (T) turns south to cut off enemy; enemy also turns south and Commodore (T) turns back to south-west and orders *Taurus* and his division to chase.
- 2.48
- 2.50 *Lightfoot*, steering S.S.E. at full speed, reduces speed on account of her smoke, which fouled range for light cruisers.
- 2.55 Western enemy destroyer turned west and *Lightfoot* turns up nearly parallel. Range, 8,000 yards. Enemy turns back. Eastern enemy destroyer struck by salvo from cruiser causing explosion. *Satyr*, *Sharpshooter* and *Torrent* close destroyer S.20, which has been hit in boiler room, and complete her destruction.
- 3.0 *Lightfoot's* course south.
- 3.10 *Lightfoot* recalls *Taurus* and ceases fire. *Sharpshooter* avoids torpedo, which passes astern.
- 3.15 German destroyer S.20 sunk by *Satyr*.

(H.S.A. 149/442.)

APPENDIX F.

NORTH ATLANTIC TRAFFIC, JULY 1917.

(See S.249.)

The following is an estimate of the number of ships British, Allied and Neutral, sailing from North Atlantic ports in United States and Canada to the United Kingdom and France from July 1 to 31, 1917. Information as to Mercantile convoys will be found in the Convoy Records; as to Troop convoys, from telegrams in H.S. 656 and H.S. 657; as to Independent Sailings, from Consular telegrams in H.S. 656 and H.S. 657 (Telegrams, North America), which give the name, date of sailing and rendezvous for ships sailing independently.

Number of Ships sailing from North Atlantic Ports to United Kingdom and France, July 1917.

	Sailed.	Arrived.	Attached.	Sunk.
Mercantile convoys ..	245	244	4	1 (0.41%)
Troop convoys ..	6	6	0	0
Independent sailings ..	129	124	7	5 (3.8%)
Total ..	380	374	11	6 (1.6%)
Per day ..	12.2 ships—In.			

Figures of traffic will be found in the Statistical Section Records (volume on Losses of Merchant Tonnage) and in the Naval Staff Weekly Appreciation No. 9, July 25, 1917, and No. 10, August 1, 1917. The latter gives—

British Merchant Ships over 500 tons to and fro to United Kingdom, July 15-28.

	In.	Out.
New York and ports north of New York—		
July 15-21 ..	38	37
July 22-28 ..	34	38
Ports south of New York and West Indies—		
July 15-21 ..	28	17
July 22-28 ..	23	18
	123	110
	Total, 233.	

This is an average of about nine British ships arriving per day in the United Kingdom or 279 for the month (compare 380 ships in S.236); but these figures do not include Allied and Neutral ships, which may be estimated at 10 per cent., and sailings for France (about 12 per cent.). No continuous series of statistics for the total traffic on particular routes have been found. No statistics have been found of traffic on the different Approach Routes. The percentage of traffic eastward bound on these routes in July 1917 was approximately as follows:—

North of Ireland and North of Scotland, Routes C and D	8 per cent.
Ireland, South-West, Route B	33 ..
Channel, Route A	35 ..
From the Bay of Biscay	9 ..
From Gibraltar and the Mediterranean	15 ..

APPENDIX G.

FORCES IN HOME WATERS,* JULY 1917.

GRAND FLEET.

Admiral Sir D. Beatty, G.C.B., G.C.V.O., D.S.O. (Commander-in-Chief, Grand Fleet).

<i>Queen Elizabeth</i> (Fleet Flagship).	<i>Bellona</i> (Light Cruiser).	<i>Campania</i> (Seaplane Carrier).	<i>Oak</i> (T.B.D.).
<i>Abdiel</i> (Fleet Leader).			

First Battle Squadron.

Revenge, Flag of Admiral Sir C. E. Madden, K.C.B., K.C.M.G., C.V.O.
Emperor of India, Flag of Rear-Admiral W. C. M. Nicholson, C.B.

<i>Benbow.</i>	<i>Marlborough.</i>	<i>Royal Oak.</i>	<i>Blonde</i> (Light Cruiser).
<i>Canada.</i>	<i>Resolution.</i>	<i>Royal Sovereign.</i>	
<i>Iron Duke.</i>			

Second Battle Squadron.

King George V, Flag of Vice-Admiral Sir J. M. de Robeck, K.C.B.
Orion, Flag of Rear-Admiral W. E. Goodenough, C.B., M.V.O.

<i>Agincourt.</i>	<i>Conqueror.</i>	<i>Monarch.</i>	<i>Boadicea</i> (Light Cruiser).
<i>Ajax.</i>	<i>Erin.</i>	<i>Thunderer.</i>	
<i>Centurion.</i>			

Fourth Battle Squadron.

Hercules, Flag of Admiral Sir F. C. D. Sturdee, Bart., K.C.B., K.C.M.G., C.V.O.
Colossus, Flag of Rear-Admiral R. J. B. Keyes, C.B., C.M.G., M.V.O., D.S.O.

<i>Bellerophon.</i>	<i>St. Vincent.</i>	<i>Vanguard</i> (blown up July 9. See S.185).	<i>King Orry</i> (Armed Boarding Steamer).
<i>Collingwood.</i>	<i>Superb.</i>		
<i>Neptune.</i>	<i>Temeraire.</i>		

Fifth Battle Squadron.

Barham, Flag of Vice-Admiral Sir H. Evan-Thomas, K.C.B., M.V.O.

<i>Malaya.</i>	<i>Valiant.</i>	<i>Warspite.</i>	<i>Blanche</i> (Light Cruiser).
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* Squadrons and Flotillas from War Vessels and Air Craft, Monthly Return, July 1917. C.B.01268 (7). For vessels of the Auxiliary Patrol, see separate Appendix.

BATTLE CRUISER FORCE.

Vice-Admiral Sir W. C. Pakenham, K.C.B., K.C.V.O., Commanding B.C.F. *Lion* (Flag).

First Battle Cruiser Squadron.

Repulse, Flag of Rear-Admiral R. F. Phillimore, C.B., M.V.O.

<i>Princess Royal.</i>	<i>Tiger.</i>	<i>Renown.</i>
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First Light Cruiser Squadron.

Caledon, Broad Pendant of Commodore W. H. Cowan, C.B., M.V.O., D.S.O. (from July 7, 1917).

<i>Cordelia.</i>	<i>Galatea.</i>	<i>Inconstant.</i>	<i>Phaeton.</i>
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Second Battle Cruiser Squadron.

Australia, Flag of Rear-Admiral A. C. Leveson, C.B.

<i>Indomitable.</i>	<i>Inflexible.</i>	<i>New Zealand.</i>
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Second Light Cruiser Squadron.

Birmingham, Flag of Rear-Admiral C. F. Lambert.

<i>Dublin.</i>	<i>Melbourne.</i>	<i>Sydney.</i>	<i>Southampton.</i>
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Third Light Cruiser Squadron.

Courageous, Flag of Rear-Admiral T. D. W. Napier, C.B., M.V.O.

<i>Birkenhead.</i>	<i>Chester.</i>	<i>Glorious.</i>	<i>Yarmouth.</i>
<i>Chatham.</i>	<i>Furious.</i>		

Second Cruiser Squadron.

Minotaur, Flag of Rear-Admiral S. R. Fremantle, C.B., M.V.O.

<i>Achilles.</i>	<i>Cochrane.</i>	<i>Duke of Edinburgh.</i>	<i>Shannon.</i>
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Fourth Light Cruiser Squadron.

Calliope, Broad Pendant of Commodore C. E. Le Mesurier, C.B.

<i>Cambrian.</i>	<i>Comus.</i>	<i>Constance.</i>	<i>Royalist.</i>
<i>Caroline.</i>			

Sixth Light Cruiser Squadron.

Cardiff, Flag of Rear-Admiral E. S. Alexander-Sinclair, C.B., M.V.O. (from July 11, 1917).

<i>Calyпсо.</i>	<i>Caradoc.</i>	<i>Cassandra.</i>	<i>Ceres.</i>
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Tenth Cruiser Squadron.

Alsatian, Flag of Vice-Admiral Sir R. G. O. Tupper, K.C.B., C.V.O.

Orvieto, Flag of Rear-Admiral M. Singer, C.B.

Otway, Broad Pendant of Commodore P. H. Colomb.

<i>Almanzora.</i>	<i>Changuinola.</i>	<i>Moldavia.</i>	<i>Victorian.</i>
<i>Andes.</i>	<i>Columbella.</i>	<i>Motagua.</i>	<i>Virginian.</i>
<i>Arlanza.</i>	<i>Ebro.</i>	<i>Orcoma.</i>	
<i>Armada Castle.</i>	<i>Gloucestershire.</i>	<i>Patia.</i>	<i>Gibraltar</i> (Depôt Ship).
<i>Artois.</i>	<i>Hildebrand.</i>	<i>Patuca.</i>	
<i>Champagne.</i>	<i>Kildonan Castle.</i>	<i>Teutonic.</i> ¹	

¹ Paid off.

Destroyers attached to Grand Fleet.

<i>Albacore.</i>	<i>Griffon.</i>	<i>Locust.</i>	<i>Sylvia.</i>
<i>Arab.</i>	<i>Leopard.</i>	<i>Orwell.</i>	
<i>Bullfinch.</i>	<i>Lively.</i>	<i>Sprightly.</i>	

First Fleet Sweeping Flotilla.

Godetia (Captain H. Holland, C.B., Captain-in-Charge, Fleet Sweepers).

<i>Carnation.</i> ¹	<i>Iris.</i>	<i>Marigold.</i>	<i>Pansy.</i>
<i>Dahlia.</i>	<i>Lilac.</i>	<i>Myrtle.</i>	<i>Sunflower.</i>
<i>Daphne.</i>			

Second Fleet Sweeping Flotilla.

<i>Circe.</i> ²	<i>Skipjack.</i> ²	<i>Foxglove.</i> ³	<i>Larkspur.</i> ³
<i>Gossamer.</i> ²	<i>Speedwell.</i> ²	<i>Gentian.</i> ³	<i>Lupin.</i> ³
<i>Leda.</i> ²			

Minelayers.

<i>Angora.</i>	<i>Ariadne</i> (sunk by <i>Paris</i> . U.C.65, July 26. See S.195).	<i>Princess Margaret.</i>	<i>Wahine.</i>
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Destroyers :—

<i>Ferret.</i>	<i>Lawford.</i>	<i>Loyal.</i>	<i>Lysander.</i>
<i>Legion.</i>			

Armed Boarding Steamers.

<i>Amsterdam.</i>	<i>Duchess of Devonshire.</i>	<i>Duke of Cornwall.</i>	<i>King Orry.</i> ⁴
<i>City of Belfast.</i>	<i>Duke of Clarence.</i>	<i>Dundee.</i>	<i>Peel Castle.</i>
		<i>Fiona.</i>	<i>Royal Scot.</i>

Third Battle Squadron.

Dreadnought, Flag of Vice-Admiral Sir H. L. Heath, K.C.B., M.V.O.
Hibernia, Flag of Rear-Admiral D. R. L. Nicholson.

<i>Commonwealth.</i>	<i>Hindustan.</i>	<i>Zealandia.</i>	<i>Diamond</i> (Light Cruiser).
<i>Dominion.</i>			

Under Orders of Commodore-in-Charge, Lowestoft.

<i>Havelock</i> (Monitor).	<i>Roberts</i> (Monitor).	<i>Glowworm</i> (Gun-boat).	<i>Dryad.</i> <i>Halcyon.</i>
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Patrol Boats :—

<i>P.18.</i>	<i>P.22.</i>	<i>P.25.</i>	<i>P.32.</i>
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¹ Paid off.² Gunboats.³ Sloops.⁴ Attached to 4th B.S. temporarily.

FLOTILLAS OF THE GRAND FLEET.

Castor, Broad Pendant of Commodore J. R. P. Hawksley, C.B., C.V.O.
Commodore (F).

Eleventh Destroyer Flotilla.

(Base : Scapa.)

<i>Seymour</i>	<i>Mandate.</i>	<i>Milbrook.</i>	<i>Mystic.</i>
(Captain (D)).	<i>Manners.</i>	<i>Minion.</i>	<i>Ossory.</i>
<i>Kempensfelt.</i>	<i>Marmion.</i>	<i>Mons.</i>	<i>Romola.</i>
<i>Blake</i>	<i>Marne.</i>	<i>Moon.</i>	<i>Sarpedon.</i>
(Depôt Ship).	<i>Martial.</i>	<i>Morning Star.</i>	<i>Skate.</i>
<i>Magic.</i>	<i>Michael.</i>	<i>Mounsey.</i>	<i>Tyrant.</i>

Twelfth Destroyer Flotilla.

(Base : Scapa.)

<i>Saumarez</i>	<i>Mameluke.</i>	<i>Munster.</i>	<i>Onslaught.</i>
(Captain (D)).	<i>Marvel.</i>	<i>Napier.</i>	<i>Opal.</i>
<i>Marksman.</i>	<i>Mary Rose.</i>	<i>Nessus.</i>	<i>Prince.</i>
<i>Diligence</i>	<i>Menace.</i>	<i>Noble.</i>	<i>Strongbow.</i>
(Depôt Ship).	<i>Mindful.</i>	<i>Nonsuch.</i>	
<i>Maenad.</i>	<i>Mischief.</i>	<i>Obedient.</i>	

Thirteenth Destroyer Flotilla.

(Base : Rosyth.)

<i>Champion</i>	<i>Nepean.</i>	<i>Oracle.</i>	<i>Penn.</i>
(Captain (D)).	<i>Nereus.</i>	<i>Oriana.</i>	<i>Petard.</i>
<i>Gabriel.</i>	<i>Nerissa.</i>	<i>Oriole.</i>	<i>Pigeon.</i>
<i>Valentine.</i>	<i>Nicator.</i>	<i>Orpheus.</i>	<i>Pylades.</i>
<i>Woolwich</i>	<i>Norseman.</i>	<i>Orisis.</i>	<i>Rival.</i>
(Depôt Ship).	<i>Obdurate.</i>	<i>Paladin.</i>	<i>Tarpon.</i>
<i>Medway.</i>	<i>Oberon.</i> ¹	<i>Pasley.</i>	<i>Telemachus.</i>
<i>Moresby.</i>	<i>Octavia.</i>	<i>Patrician.</i>	<i>Tristram.</i>
<i>Narborough.</i>	<i>Onslow.</i>	<i>Pelican.</i>	

Fourteenth Destroyer Flotilla.

(Base : Scapa.)

<i>Ithuriel</i>	<i>Nizam.</i>	<i>Opportune.</i> ²	<i>Peregrine.</i>
(Captain (D)).	<i>Nonpareil.</i>	<i>Orestes.</i> ²	<i>Plover.</i>
<i>Anzac.</i>	<i>Norman.</i>	<i>Orford.</i> ²	<i>Plucky.</i> ²
<i>Greenwich</i>	<i>Observer.</i>	<i>Partridge.</i>	<i>Relentless.</i>
(Depôt Ship).	<i>Offa.</i>	<i>Patriot.</i>	
<i>Medina.</i> ²	<i>Ophelia.</i> ²	<i>Pellew.</i>	

Fifteenth Destroyer Flotilla.

(Base : Scapa.)

<i>Parker</i>	<i>Radstock.</i> ²	<i>Rocket.</i>	<i>Tirade.</i>
(Captain (D)).	<i>Raider.</i>	<i>Rosalind.</i>	<i>Trenchant.</i>
<i>Grenville.</i>	<i>Rapid.</i>	<i>Rowena.</i>	<i>Ulysses.</i>
<i>Sandhurst</i>	<i>Ready.</i>	<i>Sable.</i>	<i>Undine.</i>
(Depôt Ship).	<i>Restless.</i>	<i>Sabrina.</i>	
<i>Northesk.</i>	<i>Rigorous.</i>	<i>Salmon.</i>	
<i>Portia.</i>	<i>Rob Roy.</i>	<i>Socerness.</i>	

¹ Paid off.² Detached.

Tenth Submarine Flotilla.

(Base : Scapa.)

<i>Lucia</i>	E.39. ¹	G.9.	G.14.
(Captain (S)).	E.40.	G.10.	C.19.
(Depôt Ship).	E.44. ¹	G.11.	C.22.
<i>Medea.</i>	G.7.	G.12.	C.34.
<i>Termagant.</i>	G.8.	G.13.	

Eleventh Submarine Flotilla.

(Base : Blyth.)

<i>Titania</i>	G.1.	G.5.	J.3.
(Captain (S)).	G.2.	G.6.	J.4.
(Depôt Ship).	G.3.	J.1.	J.5.
<i>Talisman.</i>	G.4.	J.2.	J.6.

Twelfth Submarine Flotilla.

<i>Fearless.</i>	K.3.	K.5.	K.7.
K.1.	K.4.	K.6.	K.8.
K.2.			

Thirteenth Submarine Flotilla.

(Base : Rosyth.)

<i>Crescent</i>	<i>Trident.</i>	K.10.	K.14.
(Depôt Ship).	K.9.	K.11.	C.7.

ROSYTH.

Admiral Sir F. T. Hamilton, G.C.V.O., K.C.B. (Commander-in-Chief, Coast of Scotland).

Rear-Admiral H. H. Bruce, M.V.O. (Admiral Superintendent).

<i>Crescent</i>	<i>Pactolus.</i>	<i>Engadine</i>	} Sea- plane Carriers.
(Depôt Ship).	<i>Ringdove.</i>	<i>Manxman</i>	
(Flag of C.-in-C.).			

Eighth Destroyer Flotilla.

<i>Tyne</i>	<i>Dee.</i> ²	<i>Mallard.</i>	10 T.B.s.
(Captain (D)).	<i>Dove.</i> ²	<i>Stag.</i>	
(Depôt Ship).	<i>Garry.</i> ²	<i>Thorn.</i> ²	

First Submarine Flotilla

(Base : Firth of Forth.)

B.3.

IMMINGHAM.

Rear-Admiral S. Nicholson, C.B., M.V.O. (R.A.C., East Coast of England).

<i>Albion.</i>	<i>Prince Rupert</i>	<i>Cicala.</i>	<i>Cricket.</i>
	(Monitor).		

¹ Detached.² North Channel Patrol under S.N.O., Larne.

Seventh Destroyer Flotilla.

(East Coast Convoys.)

<i>Patrol</i>	<i>Express.</i>	<i>Ostrich.</i>	<i>Test.</i>
(Captain (D)).	<i>Fairy.</i>	<i>Ouse.</i>	<i>Thrasher.</i>
<i>Albatross.</i>	<i>Flying Fish.</i>	<i>Panther.</i>	<i>Vigilant.</i>
<i>Bat.</i>	<i>Kale.</i>	<i>Peterel.</i>	<i>Violet.</i>
<i>Boyne.</i>	<i>Moy.</i>	<i>Quail.</i>	<i>Vixen.</i>
<i>Dee.</i>	<i>Ness.</i>	<i>Seal.</i>	<i>Waveney.</i> ¹
<i>Doon.</i>	<i>Nith.</i>	<i>Star.</i>	<i>Wolf.</i>
<i>Earnest.</i>	<i>Osprey.</i>	<i>Stour.</i>	P.52.

Second Submarine Flotilla.

(Base : The Tyne.)

<i>Bonaventure</i>	<i>Bonetta.</i>	C.12.	C.14.
(Depôt Ship).	C.10.	C.13.	

Third Submarine Flotilla.

(Base : The Humber.)

<i>Hebe (Depôt Ship).</i>	C.8.	C.9.
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HARWICH FORCE.

Commodore Sir R. Y. Tyrwhitt, K.C.B., D.S.O.

Fifth Light Cruiser Squadron.

<i>Centaur</i>	<i>Aurora.</i>	<i>Cleopatra.</i>	<i>Penelope.</i>
(Broad Pendant of Commodore).	<i>Canterbury.</i>	<i>Concord.</i>	<i>Vindex (Sea- plane Carrier).</i>
	<i>Carysfort.</i>	<i>Conquest.</i>	

Tenth Destroyer Flotilla.

(Base : Harwich.)

<i>Undaunted</i>	<i>Redgauntlet.</i>	<i>Starfish.</i>	<i>Tempest.</i>
(Captain (D)).	<i>Redoubt.</i>	<i>Stork.</i>	<i>Tetrarch.</i>
<i>Lightfoot.</i>	<i>Retriever.</i>	<i>Sturgeon.</i> ¹	<i>Thisbe.</i>
<i>Nimrod.</i>	<i>Satyr.</i>	<i>Surprise.</i>	<i>Thruster.</i>
<i>Valkyrie.</i>	<i>Sceptre.</i>	<i>Sybil.</i>	<i>Torrent.</i>
<i>Dido (Depôt Ship).</i>	<i>Sharpshooter.</i>	<i>Sylph.</i>	<i>Torrid.</i>
<i>Radiant.</i>	<i>Skilful.</i>	<i>Taurus.</i>	<i>Truculent.</i>
<i>Recruit.</i>	<i>Springbok.</i>	<i>Teazer.</i>	

Eighth Submarine Flotilla.

(Base : Yarmouth.)

<i>Alecto</i>	F.3.	H.10.	V.3.
(Depôt Ship).	H.7.	V.1.	V.4.
F.1.	H.9.	V.2.	

¹ Paid off.

Ninth Submarine Flotilla.

(Base : Harwich.)

Maidstone (Captain (S)) Forth Pandora Firedrake. Lurcher. Melampus. E.1. ¹ E.A.	(Depôt Ships.)	E.8. ¹	E.41.	E.53.
		E.9. ¹	E.42.	E.55.
		E.19. ¹	E.43.	C.1.
		E.27.	E.45.	C.2.
		E.29.	E.46.	C.3.
		E.31.	E.47.	C.6. ¹
		E.33.	E.50.	C.16.
		E.34.	E.51.	C.21.
		E.38. ¹	E.52.	C.28.

THE NORE.

Admiral of the Fleet Sir G. A. Callaghan, G.C.B., G.C.V.O. (Commander-in-Chief, the Nore).

Local Defence Flotilla.

Cygnet.	Electra.	Kestrel.	Zephyr.
Cynthia.	Fervent.	Porcupine.	

DOVER FORCE.

Vice-Admiral Sir R. H. Bacon, K.C.B., K.C.V.O., D.S.O. (Vice-Admiral, Dover Patrol).

Rear-Admiral C. F. Dampier (Admiral Superintendent, Dover Dockyard).

Commodore C. D. Johnson, M.V.O., D.S.O. (S.N.O., Dunkirk).

Monitors.

Erebus.	Marshal Soult.	M.24.	Riviera
General Craufurd.	Prince Eugene.	M.25.	(Seaplane Carrier).
General Wolfe.	Sir John Moore.	M.26.	Attentive.
Lord Clive.	Terror.	M.27.	Active.
Marshal Ney.	M.23.		

Destroyers.

Botha.	Gipsy.	Melpomene.	Myngs.
Broke.	Greyhound.	Mentor.	North Star.
Faulknor.	Kangaroo.	Mermaid.	Nugent.
Swift.	Laertes.	Meteor.	Phoebe.
Afridi.	Lance.	Milne.	Racehorse.
Amazon. ²	Leven.	Minos.	Saracen.
Cossack.	Lochinvar.	Miranda.	Syren.
Crane.	Manly.	Mohawk.	Tartar. ²
Crusader.	Mansfield.	Moorsom.	Viking.
Falcon.	Mastiff.	Morris.	Zubian.
Fawn.	Matchless. ²	Murray.	

¹ Detached. ² Paid off.

Fifth Submarine Flotilla.

(Base : Dover.)

Arrogant (Flag of Vice-Adm.) Hazard	(Depôt Ships.)	C.15. ¹	C.24.	C.30.
		C.17.	C.26. ¹	C.32. ¹
		C.18.	C.27. ¹	C.35. ¹

Downs Boarding Flotilla.

Ceto. ²	Duchess of Devonshire. ³	Peel Castle. ³	Simoun. ²
City of Belfast. ³			

PORTSMOUTH.

Admiral The Hon. Sir S. C. J. Colville, G.C.V.O., K.C.B. (Commander-in-Chief, Portsmouth).

Rear-Admiral C. L. Vaughan-Lee, C.B. (Admiral Superintendent).

Local Defence Flotilla.

Angler.	Conflict.	Spiteful.	Surly.
Boxer.	Desperate.		

First Destroyer Flotilla.

Beaver.	Hind.	Landrail.	Llewellyn.
Defender.	Hornet.	Lark.	Lucifer.
Druid.	Sandfly.	Linnet.	Lydiard.
Forester.			

Escort Flotilla.

(For escorting Transports.)

Arun.	Exe.	Rother.	Teviot.
Cherwell.	Liffey.	Swale.	Ure.
Ettrick. ⁴			

Convoy Flotilla.

(For escorting Atlantic convoys up Channel.)

P.15.	P.25.	P.31.	P.32.
P.22.	P.30.		

PLYMOUTH.

Admiral The Hon. Sir A. E. Bethell, K.C.B., K.C.M.G. (Commander-in-Chief, Plymouth).

Rear-Admiral Sir A. J. Henniker-Hughan, Bart. (Admiral Superintendent).

Local Defence Flotilla.

Bittern.	Opossum. ⁴	Roebuck.	Sunfish.
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¹ Detached.

² Yachts.

³ Armed Boarding Steamers.

⁴ Paid off.

Second Destroyer Flotilla.

<i>Acheron.</i>	<i>Badger.</i>	<i>Jackal.</i> ¹	<i>Phoenix.</i>
<i>Alarm.</i>	<i>Brisk.</i>	<i>Lapwing.</i>	<i>Ruby.</i>
<i>Archer.</i>	<i>Goshawk.</i>	<i>Lizard.</i>	<i>Tigress.</i> ¹
<i>Ariel.</i>	<i>Hope.</i>	<i>Lyra.</i>	
<i>Attack.</i>	<i>Hydra.</i>	<i>Martin.</i>	

Fourth Destroyer Flotilla.

<i>Hecla, Captain</i>	<i>Christopher.</i>	<i>Laurel.</i>	<i>Midge.</i>
A. E. Wood.	<i>Cockatrice.</i>	<i>Laverock.</i>	<i>Owl.</i>
(Captain (D)).	<i>Contest.</i>	<i>Lennox.</i>	<i>Porpoise.</i>
(Depôt Ship).	<i>Garland.</i>	<i>Leonidas.</i>	<i>Spitfire.</i>
<i>Acasta.</i>	<i>Hardy.</i>	<i>Liberty.</i>	<i>Unity.</i>
<i>Achates.</i>	<i>Laertes.</i>	<i>Lochinvar.</i>	<i>Victor.</i>
<i>Ambuscade.</i>	<i>Lance.</i>	<i>Lookout.</i>	

QUEENSTOWN.

Vice-Admiral Sir L. Bayly, K.C.B., C.V.O. (Commander-in-Chief, Coast of Ireland).

Rear-Admiral F. S. Miller (Commanding Northern Division, Coast of Ireland).

<i>Adventure</i> (Flag of Vice-Admiral).	<i>Musketeer.</i>	<i>Parthian.</i>	<i>Peyton.</i>
	<i>Narwhal.</i>		

Sloops, Ireland, South (Queenstown).

<i>Aubrietia.</i>	<i>Camellia.</i>	<i>Jessamine.</i>	<i>Tamarisk.</i>
<i>Begonia.</i>	<i>Crocus.</i>	<i>Myosotis.</i>	<i>Viola.</i>
<i>Bluebell.</i>	<i>Heather.</i>	<i>Snowdrop.</i>	<i>Zinnia.</i>

Sloops, Ireland, North (Buncrana).

<i>Anchusa.</i>	<i>Daffodil.</i>	<i>Laburnum.</i>	<i>Primrose.</i>
<i>Buttercup.</i>	<i>Delphinium.</i>	<i>Poppy.</i>	
<i>Convulvulus.</i>	<i>Gladiolus.</i>	<i>Rosemary.</i>	

"Vulcan's" Flotilla.

(Base : Killybegs.)

<i>Vulcan</i> (Depôt Ship).	E.32.	E.54.	H.8.
	E.35.	E.56.	
E.23.	E.48.	H.5.	

"Platypus'" Flotilla.

(Base : Killybegs.)

<i>Platypus</i> (Depôt Ship).	D.1.	D.4.	D.7.
	D.3.	D.6.	D.8.

¹ Detached.U.S.A. Destroyers.
(Base : Queenstown.)

<i>Melville</i> (Parent Ship).	<i>Cassin.</i>	<i>Sampson.</i>	<i>Perkins.</i>
	<i>Ericsson.</i>	<i>Patterson.</i>	<i>Wilkes.</i>
<i>Dixie.</i>	<i>Tucker.</i>	<i>Drayton.</i>	<i>Fanning.</i>
<i>Wadsworth.</i>	<i>Winslow.</i>	<i>Jenkins.</i>	<i>Shaw.</i>
<i>Conyngham.</i>	<i>Jacob Jones.</i>	<i>Paulding.</i>	<i>Parker.</i>
<i>Porter.</i>	<i>Cushing.</i>	<i>Trippe.</i>	<i>Ammen.</i>
<i>Wainwright.</i>	<i>O'Brien.</i>	<i>Warrington.</i>	<i>Burrows.</i>
<i>McDougal.</i>	<i>Cummings.</i>	<i>Walke.</i>	<i>Allen.</i>
<i>Davis.</i>	<i>Benham.</i>	<i>Sterett.</i>	
<i>Rowan.</i>	<i>Nicholson.</i>	<i>Jarvis.</i>	

MILFORD HAVEN.

Vice-Admiral C. H. Dare, C.B., M.V.O.

Idaho (yacht).

PEMBROKE.

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APPENDIX H.

AUXILIARY PATROL FORCE AND AREAS
ON JULY 25, 1917,
FROM AUXILIARY PATROL SERVICE.¹

Abbreviations : T. = Armed trawler ; M.D. = Motor drifter ; N.D. = Net drifter ; M.L. = Motor launch ; W. = Whaler ; Y. = Armed yacht ; P.M.S. = Paddle minesweeper.

AREA I.—STORNOWAY.

Rear-Admiral, Stornoway, Rear-Admiral The Hon. Robert Boyle, M.V.O.

Parent ship, H.M.S. *Iolaire* (yacht), Stornoway.

Force, 5 Y., 30 T., 6 M.L., 5 W., 15 N.D., 9 M.D. (Oban), and for Boom Defence, 2 drifters (Stornoway), 4 drifters (Loch Ewe).

AREA II (and III).—ORKNEYS AND SHETLANDS.

Under general orders of Admiral, Orkneys and Shetlands, Admiral Sir Frederick E. Brock, K.C.M.G., C.B. (borne in H.M.S. *Cyclops*).

Total force,² 8 Y., 120 T., 6 W., 15 M.L., 72 drifters.

Note.—Area III (Orkneys) was amalgamated with Area II (Shetlands) on July 26, 1917 (see H.S. 1370/336).

¹ Known as the "Red List," issued weekly. For details of Areas see "Red Lists" (Admiralty, Record Office).

² From "Number Allowed" (Red List), but this figure evidently does not include 67 drifters employed in Boom Defence (Scapa and Kirkwall) nor 74 uncommissioned drifters for general work with the Grand Fleet in the Flow.

Lerwick Sub-Base.

Force, 3 Y., 17 T., 5 W., 7 drifters, 3 M.D., and for Boom Defence, 4 T., 1 drifter.

Parent ship, H.M.S. *Brilliant* (old light cruiser).

Swarbacks Minn Sub-Base.

Rear-Admiral W. B. Fawckner.

Force, 9 T., 10 drifters, and for Boom Defence, 3 T., 9 drifters, and 18 T. for service with Vice-Admiral, 10th C.S.

Parent ship, H.M.S. *Gibraltar* (old cruiser).

Kirkwall Sub-Base.

Force, 17 T., 1 W. (known as Northern Patrol).

Parent ship, H.M.S. *Zaria* (at Scapa).

Stromness Sub-Base.

Force, 5 Y., 10 T. (known as Western Patrol).

Parent ship, H.M.S. *Zaria*.

Longhope Sub-Base.

Force, 49 T., 55 N.D., 32 M.D.

Parent ship, H.M.S. *Zaria* (Mercantile Fleet Auxiliary) (Navy List, July, p. 402g), and for Boom Defence (Scapa and Kirkwall), 53 T., 67 drifters, and for general service 74 uncommissioned drifters.

Note.—The following vessels were in the Flow for the following purposes:—

H.M.S. *Cyclops* (repair ship), parent ship for Admiral, Orkneys and Shetlands and particular services.

H.M.S. *Imperieuse* (old cruiser), depôt ship for Grand Fleet services, Rear-Admiral Robert J. Prendergast (Rear-Admiral, Scapa).

H.M.S. *Zaria*, parent ship for Auxiliary Patrol service.

Note.—Of the 49 trawlers, there were 10 "Scapa Patrol Sweepers" under the general orders of Rear-Admiral, Scapa; also 13 were attached to the 4th Fleet Sweeping Flotilla and 12 to the 5th Fleet Sweeping Flotilla, under the general orders of S.O., Minesweeper, H.M.S. *Lupin* (see Red List, p. 48).

AREA IV.—CROMARTY.

Force, 27 T., 12 M.L., 10 drifters, 10 N.D., and for Boom Defence (Cromarty), 15 T., 7 drifters.

Parent ship, H.M.S. *Thalia* (old troopship, 2,240 tons, Navy List, July 1917, p. 398h).

AREA V.—PETERHEAD.

S.N.O., Peterhead, Rear-Admiral Francis W. Kennedy, C.B.

Force, 2 Y., 25 T., 8 M.L., 4 drifters, 10 M.D.

Parent ship, H.M.S. *Thalia*.

AREA VI.—GRANTON.

Under general orders of Commander-in-Chief, Coast of Scotland.

Force, 8 Y., 52 T., 1 W., 24 M.L., 9 drifters, 14 M.D., 15 P.M.S., and for Boom Defence (Firth of Forth, under K.H.M., Rosyth), 22 T., 7 drifters, 2 tugs and 2 steam lighters.

AREA VIII.—TYNE.

Under general orders of Rear-Admiral Commanding, East Coast of England.

Under immediate orders of S.N.O., Tyne.

Minesweepers at South Shields.

Force, 1 Y., 45 T., 18 M.L., 36 drifters, 5 P.M.S.

Parent ship, H.M.S. *Satellite* (old light cruiser).

Parent ship, South Shields, H.M. Trawler *Island Prince*.

AREA IX.—HUMBER.

Under general orders of Rear-Admiral Commanding, East Coast of England (see p. 296).

Force, 1 Y., 91 T., 3 W., 12 M.L., 20 drifters, 4 M.D., 10 P.M.S.; also 20 N.D., and for Boom Defence (Humber), 5 tugs, 4 trawlers, 15 drifters.

Parent ship, H.M. Trawler *Wallington*.

AREA X.—YARMOUTH.

Under immediate orders of Commodore-in-Charge, Lowestoft.

Force, 2 Y., 19 T., 9 M.L., 26 N.D.

Parent ship, H.M. Trawler *Kingfisher*, Great Yarmouth.

AREA X.—LOWESTOFT.

Under orders of Commodore-in-Charge, Lowestoft.

Force, 58 T., 9 M.L., 18 M.D., 17 drifters (Swept Channel Patrol).

Parent ship, H.M.S. *Halcyon*, Lowestoft (Hydrophone service).

HARWICH LOCAL AREA.

Rear-Admiral, Harwich, Rear-Admiral George C. Cayley.

Force, 1 Y., 31 T., 4 M.L., 24 drifters, 8 P.M.S.

Parent ship, H.M.S. *Ganges*.

NORE LOCAL AREA.

Under general orders of Commander-in-Chief, Nore.

Parent ship, H.M.S. *Actaeon*.

Parent ship, Brightlingsea, Boom Defence (Swin), H.M. Trawler *City of Perth*.

Force, 1 Y., 30 T., 33 M.L., 42 drifters, 11 P.M.S.

AREA XI.—DOVER AND DOWNS.

Under immediate orders of Vice-Admiral, Dover.

Parent ship, H.M.S. *Attentive III*, Dover.

Parent ship, Ramsgate, H.M.S. *Ceto*.

Force (Dover), 3 Y., 73 T., 25 M.L., 101 drifters (Net Drifters and Barrage), and 2 drifters (Folkestone Gate ships), 14 P.M.S.

Force (Ramsgate), 1 Y., 1 T., 28 Armed Drifters, 2 M.L.

AREA XII.—PORTSMOUTH

Under general orders of Commander-in-Chief, Portsmouth.

Parent ship, H.M.S. *Victory*.

Forces: Yachts, 2. Trawlers, Portsmouth 41, Newhaven 18, Havre 14.
Motor Launches, Portsmouth 40, Poole 4, Newhaven 5, Havre 2.
Net Drifters, Portsmouth 20, Poole 61, Havre 26. Motor Boats, 1.

AREA XIII.—PORTLAND

Under general orders of Commander-in-Chief, Portsmouth.

Under immediate orders of S.N.O., Portland.

Forces: 2 Y., 29 T., 12 M.L., 9 drifters, 4 P.M.S.

Parent ship, H.M.S. *Research* (surveying vessel).

AREA XIII.A.—DEVONPORT

Under immediate orders of Commander-in-Chief, Devonport.¹

Forces: 56 T., 15 M.L., 20 drifters, 1 M.D.

Parent ship, H.M.S. *Vivid*.

AREA XIV.—FALMOUTH

Under the general orders of Commander-in-Chief, Devonport.

Under the immediate orders of Rear-Admiral John S. Luard.

Forces: 2 Y., 53 T., 8 M.L., 44 N.D.

Parent ship, H.M. Trawler *Dreel Castle*, Falmouth.

BRISTOL CHANNEL AREA

Under the general orders of Vice-Admiral, Milford, S.N.O., Swansea.

Forces: 7 T., 6 M.L., 7 drifters, 4 P.M.S.

Parent ship, H.M. Trawler *Shikari*.

AREA XV.—MILFORD HAVEN

Under the general orders of Commander-in-Chief, Coast of Ireland.

Under the immediate orders of Vice-Admiral C. H. Dare, C.B., M.V.O.

Forces: 4 Y., 33 T., 8 M.L., 74 N.D.

AREA XVI.—KINGSTOWN

Under the general orders of Commander-in-Chief, Coast of Ireland.

Forces: 2 Y., 8 T., 10 M.L., 6 drifters.

LIVERPOOL LOCAL AREA

Under the general orders of Rear-Admiral Harry H. Stileman, S.N.O.,
Liverpool, at Colonial House, Water Street, Liverpool.

Forces: 1 Y., 6 T., 6 M.L., 16 drifters, 6 M.D., 6 P.M.S.

Parent ship, H.M.S. *Eagle*, Salthouse Dock.

¹ sic in Red List; the designation in Navy List is Commander-in-Chief, Plymouth.

AREA XVII.—LOUGH LARNE

Under the general orders of Commander-in-Chief, Coast of Ireland.

Under the immediate orders of Rear-Admiral Francis S. Miller, Rear-Admiral,
Northern Division, Coast of Ireland.

Forces: 3 Y., 18 T., 14 M.L., 94 N.D. (Larne), 4 P.M.S.

Parent ship, H.M.S. *Thetis* (old light cruiser).

CLYDE LOCAL AREA

Under the general orders of Commander-in-Chief, Coast of Scotland (see
Area VI).

Parent ship, H.M.S. *Pactolus* (old light cruiser) at Ardrossan.

AREA XVIII.—LOUGH SWILLY

Under the general orders of Commander-in-Chief, Coast of Ireland.

Under the immediate orders of Rear-Admiral Francis S. Miller.

Forces: 28 T., 10 drifters.

Parent ship, H.M.S. *Colleen* (old light cruiser), Queenstown.

Base ship, H.M.S. *Hecla II*, Bunrana.

AREA XIX.—GALWAY BAY

Under the general orders of Commander-in-Chief, Coast of Ireland.

Forces: 10 T., 8 M.L.

Parent ship, H.M.S. *Colleen*.

AREA XX.—BEREHAVEN

Under the general orders of Commander-in-Chief, Coast of Ireland.

Forces: 1 Y., 5 T., 6 M.L., 2 drifters.

Parent ship, H.M.S. *Colleen*.

AREA XXI.—QUEENSTOWN

Under the general orders of Commander-in-Chief, Coast of Ireland.

Forces: 1 Y., 21 T., 10 M.L., 12 drifters, 8 P.M.S.

Parent ship, H.M.S. *Colleen*, Queenstown.

AREA XXII.—HOLYHEAD

Forces: 1 Y., 14 T., 6 M.L., 12 drifters.

Parent ship, H.M. Yacht *Vanessa II*.

APPENDIX J

AUXILIARY PATROL STRENGTH, JULY 1917

AUXILIARY PATROL SERVICE, 25 JULY, 1917

	Home Waters.	Mediterranean and Abroad.	Total.
Yachts	53	17	70
Trawlers	942	203	1,145
Trawlers, boom defence ..	119	4	123
Whalers	15	-	15
Motor launches	342	132	474
Motor boats	10	-	10
Drifters, net	783	152	935
Drifters, other	194	-	194
Drifters, motor	65	-	65
Drifters, boom defence ..	179	2	181
Paddle minesweepers ..	98	-	98
Patrol paddlers	-	9	9
	2,800	519	3,319

APPENDIX K

LOSSES, AUXILIARY PATROL

TRAWLERS, DRIFTERS, PADDLE MINESWEEPERS
TO JULY 25, 1917.

Sunk by	1914-1916.	1917.	
Gunfire	24	15	
Mine	73	57	
Torpedo	3	7	
Aircraft	1	-	
Capture	1	-	
Fire	6	2	
Collision	17	7	
Wreck	22	6	
Foundered	6	3	
Unknown	5	2	
	158	99	Total, 257

List of Naval Staff Monographs (Historical) issued to the Fleet

O.U. 5413 (A) ..	Vol. I	..	Monograph 1. Coronel.
(late C.B. 917).		..	2. German Cruiser Squadron in Pacific.
		..	3. Falklands.
		..	4. <i>Geoben and Breslau</i> .
		..	5. Cameroons, 1914.
O.U. 5413 (A) ..	Vol. II	..	10. East Africa, to July 1915.
(late C.B. 917 (A)).		..	6. Passage of B.E.F., August 1914.
O.U. 6181 ..	Vol. III	..	7. Patrol Flotillas at commencement of war.
(late C.B. 1585).		..	8. Raid on North-East Coast, December 16, 1914.
C.B. 1585 (A) ..	Addendum	..	11. Heligoland Bight, Aug. 28, 1914.
	No. 1 to	..	12. Dogger Bank, January 24, 1915.
	Vol. III.	..	15. Mesopotamia.
O.U. 5413 (B) ..	Vol. IV	..	14. First Australian Convoy, 1914.
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O.U. 5413 (B) (1) ..	Addendum	..	17. East Indies Squadron, 1914.
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	O.U.5413(B).	..	18. Dover Command I.
O.U. 5413 (C) ..	Vol. V	..	19. Tenth Cruiser Squadron I.
(late C.B.917 (C)).		..	25. The Baltic, 1914.
		..	21. The Mediterranean, 1914-1915.
		..	22. Atlantic, 1914.
		..	26. Atlantic, 1915.
		..	27. Battles of Coronel and Falkland Islands.
O.U. 5413 (D) ..	Vol. VI	..	23. Home Waters, Part I.
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O.U. 5413 (E) ..	Vol. VII	..	28. Home Waters, Part III.
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- Arlanza* (a.m.c.) Detached from 10th Cruiser Squadron for convoy work, 140 f.n.
- Arley* (armed trawler) Attacks submarine, May 28, 41.
- Arlington Court* (British s.s.) .. Damaged by mine, May 15, 26; torpedoed by *U.57*, May 14, salvaged, 28.
- Armada Castle* (a.m.c.) Detailed from 10th Cruiser Squadron for convoy work, 140 f.n.; sent to 25° W. to divert shipping, June 20, 162.
- Arnfinn Jarl* (Norwegian s.s.) .. Sunk in convoy by *U.19*, May 20, 87.
- Artensis* (Norwegian s.v.) .. Sunk by *U.87*, July 19, 239.
- Arthur Capel* (French s.s.) .. Attacked by *U.C.26*, May 4, 61.
- Artic Whale* (armed whaler) .. Attacks submarine, July 4, 156.
- Asalia* (Norwegian s.v.) Sunk by *U.C. 44*, June 30, 234B.
- Asama* (commissioned fishing trawler). Sunk by *U.48*, July 16, 238.
- Ascain* (French s.s.) Sunk by submarine, July 13, 204, in Coal Trade Convoy, 216 f.n., 218.
- Ashby, Commander Arthur Lucas Commanding *Avenger*, sunk by *U.69*, June 14, 140.
- Asheim* (Norwegian s.v.) Sunk by *U.53*, July 8, 234A, 255.
- Ashleaf* (oiler) Torpedoed by *U.88*, May 29, sinks May 31, 39, 124.
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- Askild* (Norwegian s.s.) Sunk by *U.B.20*, May 19, 65.
- Aspen* (Swedish s.s.) Torpedoed by *U.C.31*, towed into Kirkwall, May 17, 86.

- Asya* (Norwegian s.v.) Sunk by *U.58*, May 5, 19.
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- Assos* (Greek s.s.) Sunk by *U.B.38*, May 4, 53.
- Asters* (Norwegian s.s.) Sunk by *U.C.55*, May 28, 43.
- Asturienne* (French s.s.) Sunk, July 25, 294.
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- Bagdale* (British s.s.) Sunk in convoy by *U.C.66*, May 1, 49, 103 f.n.
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- Beeswing* (British s.v.) Sunk by *U.58*, May 2, 19.
- Bega* (armed trawler) Sunk by submarine, June 18, 176.
- Begona III* (Spanish s.s.) Sunk in convoy by *U.C.70*, May 23, 69, 103 f.n.
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- Bernisse* (Dutch s.s.) Torpedoed by *U.87*, salvaged, May 23, 38.
- Bertha* (Portuguese s.v.) Sunk by *U.C.69*, July 26, 294.
- Berwick* (cruiser) Employed escorting troop convoys 134; attacked by submarine, July 24, 209, 289; escorts convoy *H.H.7*, July 6-23, 250, 251.
- Bessie* (Swedish f.v.) Sunk by *U.86*, July 2, 282.
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- Blake* (British s.s.) Sunk in convoy, July 24, 216 f.n. by *U.C.49*, 276.
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- Bolette* (Norwegian s.s.) Sunk in Scandinavian convoy by *U.19*, June 22, 157, 177, 269 f.n.
- Bond, Lieutenant Harman Arthur Lewis, R.N.R. Commanding *Cheerful*, sunk by mine, June 30, 157.
- Boreas* (Dutch s.v.) Sunk by *U.C.71*, May 16, 92.
- Borneo* (armed trawler) Sunk by mine June 18, 153.
- Borrowdale* (Russian s.v.) Sunk by *U.21*, April 30, 18.
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- Bower, Lieutenant-Commander John Graham. Commanding *E.42*, nearly rammed by *Abdiel*, June 13, 146.

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- Browning, Vice-Admiral Montague Edward, C.B., M.V.O. C.-in-C., North America and West Indies, 160, 253; *re* convoys, 254.
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- Brumaire* (British s.s.) Sunk July 24, 244, by *U.46*, 257 f.n.
- Brunhilda* (British s.s.) Sunk by submarine, July 11, 203.
- Bruton, Captain Charles William Commanding *Terror*, bombards Zeebrugge, May 12, 4; bombards Ostend, June 5, 139 f.n. 139.A.
- Buch, Oberleutnant Gustav Commanding *U.C.36*, lost in her, May, 67.
- Bucuresti* (Roumanian s.s.) Missed by torpedo, May 21, 70.
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- Burrows* (U.S.A. t.b.d.) Saves *Cornishman*, July 29, 242.
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- Bush, Captain James Tobin Commanding *Isis*, escorts second Atlantic Convoy, *H.H.2*, June 8-19, 169; escorts convoy, *H.H.11*, July 22-August 6, 251.
- Butcher, Flight-Lieutenant Osborne Arthur, R.N.A.S. Directs *Patriot's* attack on submarine July 12, awarded D.S.C., 186.
- Butlin, Lieutenant Claude Martin. *Re Oracle* and *U.44*, August 12, 248.
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<i>C.4</i> (s/m)	Sights submarine, May 17, 62.
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<i>C.10</i> (s/m)	Attacked by British t.b.d's <i>Ouse</i> and <i>Bat</i> , May 3, 132.
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<i>Cabo Verde</i> (Portuguese s.s.)	Sunk by <i>U.C.69</i> , June 23, 154.
Cadman, Commander William	Killed in <i>Vanguard</i> , July 9, 185.
<i>C.A. Jaques</i> (British s.s.)	.. .. .	Sunk in French Coal Trade convoy by <i>U.B.18</i> , May 1, 58, 103 f.n.
<i>Calchas</i> (British s.s.)	.. .. .	Sunk by <i>U.80</i> , May 11, 26.
<i>Caledon</i> (l.c.)	Sweeps for enemy minelayers, July 20, 192.
<i>Calgarian</i> (a.m.c.)	Sails from America with transports, May 22, 134.
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<i>Calliope</i> (l.c.)	In sweep for raider, April 29–May 1.
<i>Camberwell</i> (British s.s.)	Sunk by mine, May 18, 67.
<i>Cambrian</i> (l.c.)	.. .. .	In sweep for raider, May 1–3, 1; at destruction of <i>Gamma</i> , June 2, 137; off Norwegian Coast, June 2, 138.
<i>Cambrian III</i> (commissioned escort ship).	Escorts convoy <i>H.12</i> , July 27–August 12, 250; stopped by <i>Devonshire</i> , July 7, 251.
<i>Cambronne</i> (French s.v.)	Sunk by <i>U.C.72</i> , July 8, 260, 291.
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<i>Cameronian</i> (British transport)	Sunk in Mediterranean, April 15, 197.
Campbell, Commander Gordon, V.C., D.S.O.	Commanding <i>Pargust</i> , sinks <i>U.C.29</i> , June 7, 47, 158, 263; awarded bar to D.S.O. and promoted Captain, 158.
Campbell, Commander Victor Lindsey Arbuthnot, D.S.O.	.. .. .	Commanding <i>Milne</i> , sinks <i>U.C.26</i> , May 8, awarded bar to D.S.O., 61.
<i>Canalais</i> (French s.v.)	.. .. .	Sunk by <i>U.C.72</i> , May 2, 56.
<i>Candia</i> (British s.s.)	.. .. .	Sunk by <i>U.C.65</i> , July 27, 201, 209, 219 f.n.
<i>Canis</i> (Norwegian s.s.)	.. .. .	Sunk in convoy by <i>U.60</i> , July 30, 280, 285 f.n.
<i>Canterbury</i> (l.c.)	.. .. .	In action, May 17, 7; in action, June 5, 139; fires at German aeroplanes raiding Harwich, July 4, 182.
<i>Cape Transport</i> (British s.s.)	.. .. .	Attacked by submarine June 7, 150.
<i>Capitaine Coussin</i> (French airship)	.. .. .	Attacks submarine, July 25, 292.
<i>Carmania II</i> (trawler minelayer)	.. .. .	Lays mines, July 16, 190, 215.
<i>Carmarthen</i> (British s.s.)	.. .. .	Torpedoed, July 26, beached, 211, 212, 219 f.n.

<i>Carmela</i> (U.S.A. s.v.)	.. .. .	Sunk by submarine, July 27, 210.
<i>Carnarvon</i> (cruiser)	.. .. .	Employed escorting troop convoys, 134.
<i>Carnmoney</i> (British s.v.)	.. .. .	Sunk by <i>U.49</i> , May 14, 24.
<i>Caroline</i> (l.c.)	.. .. .	In sweep for raider, May 1–3, 1.
<i>Carperby</i> (British s.s.)	.. .. .	Missed by torpedo, May 23, 71.
Carre, Lieutenant Edward, Cambridge	.. .. .	Commanding <i>E.47</i> , attacks <i>U.48</i> , May 28, 27.
<i>Carrigan Head</i> (decoy ship, <i>Q.4</i>)	Attacked by <i>U.48</i> , May 14, 27; patrolling on Approach Route B, May 1 108; escorts Atlantic Convoy, June 25–July 13, 169.
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Carson, Right Honourable Sir Edward.	First Lord of the Admiralty. At Conference, April 13, 133; at Conference with C. in C. Grand Fleet, June 9, 144.
Carter, Lieutenant Commander Thomas Gilbert.	.. .. .	Commanding <i>T.B.81</i> , attacks submarine May 15, 64.
<i>Carysfoot</i> (l.c.)	.. .. .	In action, May 10, 3; May 17, 7.
<i>Cassin</i> (U.S.A. t.b.d.)	.. .. .	Arrives Queenstown, May 24, 113 f.n.
<i>Cassor</i> (decoy ship, <i>Q.35</i>)	.. .. .	See "Rule."
<i>Casleton</i> (British s.s.)	.. .. .	Sunk by <i>U.87</i> , July 12, 239.
<i>Cattaro</i> (British s.s.)	.. .. .	Sunk by submarine, June 26, 160.
<i>Cassowary</i> (armed trawler)	.. .. .	Attacks <i>U.C.17</i> , May 11, 63.
<i>Castor</i> (l.c.)	.. .. .	H.M. The King crosses to Scapa in, June 21, 145; in Operation BB, Commodore (F), June 15–24, 171.
Cavaye, Lieutenant Frederick Langton.	Commanding <i>Itchen</i> , sunk by submarine, July 6, 184.
<i>Cavina</i> (British s.s.)	Sunk by <i>U.88</i> , June 1, 149.
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<i>Cayo Bonito</i> (British s.s.)	Chased by submarine, July 15, 238.
<i>C.E.C.G.</i> (British s.v.)	Sunk by <i>U.C.70</i> , May 18, 69.
<i>C. De Eizaguirre</i> (Spanish s.s.)	.. .. .	Sunk off South Africa, May 26, by mine laid by <i>Wolf</i> , 98 f.n.
<i>Celtic</i> (British s.s.)	.. .. .	Attached by <i>U.57</i> , May 19, 28.
<i>Centaur</i> (l.c.)	.. .. .	Broad Pendant, Commodore Tyrwhitt, in action, May 10, 3; May 17, 7; supports Dover Patrol, May 26, 11; in action, June 5, 139; attacked by aircraft, July 14, 188; attacks German Traffic to Holland, July 16, 188.
<i>Ceres</i> (Danish s.s.)	.. .. .	Sunk by <i>U.88</i> , July 13, 264.
<i>Ceres</i> (French s.v.)	.. .. .	Sunk by <i>U.C.72</i> , July 9, 260, 291.
<i>Certo</i> (Norwegian s.s.)	.. .. .	Sunk in French coal trade convoy, by <i>U.C.26</i> , May 2, 61, 103 f.n.
<i>Cesarevitch Alexei</i> (Russian s.s.)	.. .. .	Sunk in convoy by submarine, July 29, 274, 285 f.n.
<i>Chagford</i> (decoy ship) called also <i>Bracondale</i>.	.. .. .	Damaged by, and damages, <i>U.44</i> , August 5, sinks August 7, 248.

- Chapman, Lieutenant Charles Manners Sutton, D.S.C. Commanding *G.11*, July, 287.
- Charilaos Tricoupis* (Greek s.s.) .. Sunk by *U.58*, July 13, 240.
- Charles Leborgne* (French s.s.) .. Attacked by submarine, May 24, 71.
- Chatham* (l.c.) In sweep for raider, May 3-5, 1.
- Cheerful* (t.b.d.) Sunk by mine, June 30, 157, 270.
- Chester* (l.c.) In sweep for raider, May 3-5, 1.
- Chicago City* (British s.s.) .. Torpedoed, May 23, 23 f.n.
- Chief of the Naval Staff New title May 14; office merged with that of First Sea Lord, 133; see "*Jellicoe*."
- Childe Horold* (U.S.A. s.v.) .. Sunk by *U.C.17*, June 21, 153.
- Chiswick* (British s.s.) Attacks submarine, May 17, 86.
- Christopher* (t.b.d.) Patrols off Ushant, May, 120; sights six submarines, June 27-July 7, 228; picks up survivors of *Torcello*, July 15, 238.
- Church, Captain William Drummond. Commanding *Almanzora*, 251.
- Cicero* (Armed trawler) Attacks submarine, May 7, 129.
- Cimbria* (Danish s.v.) Sent into Stornoway, May, 30; sunk by *U.49*, July 3, 236.
- Cito* (British s.s.) Sunk by German t.b.d.'s, May 17, 9, 102 f.n. 130.
- City of Baroda* (British s.s.) .. Sunk by submarine June 4, 149, 158.
- City of Corinth* (British s.s.) .. Sunk by *U.B.31*, May 21, 67A.
- City of Florence* (British s.s.) .. Sunk by *U.C.17*, July 20, 201, 208, 292.
- City of Perth* (British s.s.) .. Sunk by submarine, June 11, 150.
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- Lockyer, Captain Hughes Campbell, C.B. Commodore 2nd Class, Gibraltar convoy, May 2, 135a.
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Madura (Norwegian s.v.) .. Sunk by *U.48*, May 21, 27.
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Malte (French s.s.) Attacked by *U.C.17*; July 20, 292.

- Manchester Inventor* (British s.s.) Sunk by *U.94*, July 30, 279.
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Marguerite (French decoy ship) .. Attacks submarine, May 24, 70.
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Maria (Greek s.s.) Sunk by *U.C.69*, May 3, 55.
Marie (Danish s.s.) Sunk in Scandinavian convoy by *U.C.51*, May 4, 85.
Marie (French s.v.) Sunk by *U.C.75*, May 4, 23.
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Medina (t.b.d.) .. Attacks submarine, June 9, 150; escorts oilers, July 28, 246A, 248, 255.
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Mercian (British s.s.) .. Attacked by submarine, July 12, 237.
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- Muirfield* (British s.s.) Sunk by *U.49*, July 11, 236.
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- Narwhal* (t.b.d.) Attacks *U.B.23*, July 26, 211.
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- Nellore* (British s.s.) Attacked by submarine, May 23, 67A.
- Nelly* (French s.s.) Sunk by *U.C.61*, May 8, 59.
- Nelson*, Lieutenant William Stanley, R.N.R. Commanding *Mallard*, attacks submarine May 4, awarded D.S.C., 79A f.n., 129.
- Nelson-Ward*, Rear Admiral Philip, M.V.O. 251.
- Nepean* (t.b.d.) Attacks *L.43*, May 4, 2.
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- Neptunus* (Dutch s.s.) Sunk by *U.C.62*, May 4, 92.
- Nessus* (t.b.d.) Picks up survivors of *Avenger* and attacks *U.69*, June 14, 140.
- Nevisbrook* (British s.s.) Sunk by *U.45*, July 20, 235, 261, 262.
- New Abbotshall* (British s.s.) .. Encounters submarine, May 7, 81.
- New Comet* (decoy trawler) .. See *Ruskeen*.
- New Design II* (British s.v.) .. Sunk by *U.C.65*, May 4, 54.
- New Pioneer* (British s.s.) .. Attacked by *U.B.38*, May 25, 71.
- Newton*, Lieutenant Commander, U.S.N. Commanding *Patterson*, S.N.O. 5th U.S.A. Destroyer Flotilla, leaves St. Johns for Queenstown, May 26, 113 f.n.
- New York, Naval Vice Consul at. See "*Wells*."
- N. Hadzihyriakos* (Greek s.s.) .. Sunk by *U.86*, May 31, 36.

- Niagara* (French s.s.) Attacked by *U.C.69*, July 20, 294.
- Nicholson*, Lieutenant Peter .. Commanding *Maristo*, attacks *U.C.61*, May 12, awarded D.S.C., 59.
- Nicholson*, Rear Admiral Stuart, C.B., M.V.O. Rear Admiral East Coast of England, 128; *re* loss of *Ariadne*, July 26, 195.
- Nicholson*, Rear Admiral William Coldingham Masters, C.B. Rear Admiral, 1st Battle Squadron, Appendix G; conducts inquiry into loss of *Vanguard*, 185.
- Nimrod* (flotilla leader) In action, May 10, 3; in bombardment of Zeebrugge, May 12, 4; supports Dover vessels, July 25, 190.
- Nicholson*, Rear Admiral Douglas Romilly Lothian. Appendix G.
- Nicholson*, Rear Admiral Stuart, C.B., M.V.O. R.A.C., East Coast of England, Appendix G.
- Nicholson* (U.S.A. t.b.d.) .. Arrives at Queenstown, May 24, 113 f.n.
- Noble* (t.b.d.) Picks up survivors of *Avenger* and attacks *U.69*, June 14, 140.
- Nodzu* (armed trawler) Saves *Ugo Bassi*, May 21, 67A.
- Noma* (U.S.A. yacht) 293.
- Noordzee* (Dutch s.v.) Sunk by *U.C.62*, May 2, 92.
- Norhaug* (Norwegian s.s.) .. Sunk by mine, May 26, 70.
- Norlina* (U.S.A. s.s.) Attacked by submarine, June 4, 150.
- Norman* (t.b.d.) In Operation C.C., July 5, 183; in kite balloon operation, July 12, 186; *Ariadne* sunk under escort of, July 26, 195, 209.
- Normand* (Norwegian s.s.) .. Sunk by *U.B.20*, May 20, 65.
- Northern Barrage Proposed by U.S.A., May 14, 129.
- Norton* (British s.s.) Attacked by submarine, May 5, 57.
- Norway* (Norwegian s.s.) .. Sunk in Scandinavian convoy by *U.19*, May 26, 87.
- Nuttlerkamp* (German Armed trawler). Sunk by mine, May 9, 13.
- N. Verbeckmoes* (French s.s.) .. Attacked by *U.C.17*, May 12, 63.
- Nydal* (Norwegian s.s.) Sunk by *U.C.72*, May 5, 56.
- Oakfield* (British s.s.) Attacked by submarine, August 9, 247.
- Oakleaf* (British oiler) Sunk in convoy, July 25, 216 f.n., by *U.C.41*, 243.
- Obedient* (t.b.d.) Attempts to tow *Buffalo*, June 19, 150, 173.
- Obdurate* (t.b.d.) Encounters *L.43*, May 4, 2.
- O'Brien* (U.S.A. t.b.d.) Arrives at Queenstown, May 24, 113 f.n.
- Obuasi* (British s.s.) Sunk by *U.49*, July 8, 236.
- Ocamo* (British s.s.) In action with submarine, July 27, 245.
- Oceana* (tug) Tows *Aspen* to Kirkwall, May 17, 86.
- Ocean Swell* (British s.v.) .. Sunk by *U.B.31*, July 5, 203.
- Odense* (Danish s.s.) Attacked by *U.C.77*, stranded, May 5, 81.

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Ole Lea (Norwegian s.s.) Sunk by *U.C.61*, July 4, 202.

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P.54 (patrol boat) Escorts convoy *H.H.4*, July 7, 249 f.n.

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- Patterson* (U.S.A. t.b.d.) Leaves St. Johns for Queenstown, May 26, 113 f.n.
- Paulding* (U.S.A. t.b.d.) Leaves St. Johns for Queenstown, May 26, 113 f.n.
- Pavia* (British s.s.) Attacked by *U.57*, May 29, 28.
- Paxton* (decoy ship *Q.25*) called also *Lady Patricia* and *Tosca Sverige*. Sunk by *U.46*, May 20, 29, 263 f.n.
- Pearson, Lieutenant Leonard Ernest. In *Milne*, May 8, awarded D.S.C., 61.
- Peck, Captain Ambrose Maynard, D.S.O. Commanding *Swift*, escorts t.b.d. minelayers, July 14, 187.
- Peebles* (British s.s.) Attacked by submarine, May 29, 74; attacked by *U.C.72*, July 8, 291.
- Pelican* (t.b.d.) Encounters *L.43*, May 4, 2.
- Pellworm* (German s.s.) Captured by Harwich Force, July 16, 188.
- Penelope* (l.c.) In action, May 17, 7; attacked by aircraft, July 14, 188.
- Penhale* (British s.s.) Sunk by *U.46*, May 18, 29.
- Penshurst* (decoy ship *Q.7*) called also *Manford*. Attacks submarine, July 2, 228, 263; attacked by submarine, July 23, 244, 263.
- Peninsula* (British s.s.) Sunk by *U.46*, July 25, 244, 257 f.n.
- Pentwyn* (British s.s.) Attacked by submarine, July 13, 237.
- Peregrine* (t.b.d.) *Ariadne* sunk under escort of, July 26, 195, 209.
- Perius, Captain German naval writer, 296.
- Perkins* (U.S.A. t.b.d.) 237, 261.
- Petersen, Lieutenant Heinrich .. In *U.C.26*, May 8, saved, 61.
- Peterson, Lieutenant Frederick Henry, D.S.C., R.N.R. Commanding *Roskeen*, encounters *U.C.29*, Apr. 24, 79; encounters *U.C.40*, May 15, wounded, awarded bar to D.S.C., 84, 129.
- Petheridge, Mr. Albert L. .. Master of *Asama*, awarded D.S.C., 238.
- Petone* (British s.s.) Sights submarine, May 23, 71.
- Petre, Captain Walter Reginald Glynn. Commanding *Angora*, lays mines, May 20, 13; lays deep mines, June 26 and July 8, 232.
- Petunia* (British s.s.) Sunk by *U.49*, May 8, 24.
- Peveril* (decoy ship *Q.36*) See *Puma*.
- Peyton* (t.b.d.) Attacks *U.B.23*, July 26, 211; picks up survivors of *Kioto*, July 11, 239.
- Phaeton* (l.c.) In sweep for enemy minelayer, July 20, 192.
- Phemius* (British s.s.) Sunk by *U.C.45*, June 4, 40.
- Phidias* (British s.s.) 262.
- Philadelphia* (U.S.A. s.s.) Attacked by *U.44* and *U.94*, August 3, 248.
- Phillimore, Rear Admiral Richard Fortescue, C.B., M.V.O. Commanding 1st Battle Cruiser Squadron, Appendix G.
- Phoebus* (Italian s.s.) Sunk by *U.C.44*, June 30, 234B.
- Photinia* (British s.s.) Missed by torpedo, May 5, 18.
- Piet Hein* (Dutch f.v.) Sunk by *U.C.33*, July 6, 270.

- Pilar de Larinaga* (British s.s.) .. Sunk by *U.C.65*, May 4, 54.
- Pladda* (decoy ship *Q.24*) See *Laggan*.
- Plassy* (hospital ship) Inspected by H.M. the King, June, 145.
- Plunket - Ernle - Erle - Drax, Captain The Hon. Reginald Aylmer Ranfurly. Commanding *Blanche*, lays mines, May 12, 12.
- Plutarch* (British s.s.) Attacked by *U.53*, July 8, 255.
- Plyades* (t.b.d.) Encounters *L.43*, May 4, 2.
- Plymouth Patrol Forces, July, 222.
- Polamhall Hall* (British s.s.) .. Sunk by *U.62*, August 7, 20.
- Polanna* (British s.s.) Sunk by *U.C.40*, August 6, 281.
- Polstad* (Norwegian s.s.) Sunk by *U.C.69*, May 3, 55.
- Polymnia* (British s.s.) Ex German *Henrietta Woermann*, sunk by *U.C.75*, May 15, 23.
- Polyphemus* (British s.s.) Attacked by submarine, July 21, 240; attacked by submarine, July 20, 289.
- Polyxena* (British s.s.) Sunk by *U.95*, June 11, 149.
- Poppy* (sloop) 240. Escorts convoy H.H.11, August 6, 248.
- Porpoise* (t.b.d.) With Gibraltar convoy, May 19, 135A.
- Porter* (U.S.A. t.b.d.) *Celtic* attacked under escort of, May 19, 28; arrives at Queenstown, May 4, 109 f.n.
- Porthkerry* (British s.s.) Sunk by *U.B.40*, May 20, 66.
- Portland Patrol Forces, July, 222, 225.
- Portsmouth Patrol Forces, July, 222, 224.
- Pound, Captain Alfred Dudley Pickman Rogers. Appointed to Naval Staff, July, 144 f.n.
- Praesident Christie* (Norwegian (s.s.) 138.
- Pratt, Captain Thomas Drummond Commanding *Yarmouth*, hunts raider, August, 248.
- Premius* (British s.s.) Sunk by *U.C.45*, June 4, 149.
- Prendergast, Rear Admiral Robert John. Appendix H.
- Prescot, Engineer Lieutenant George, R.N.R. Killed in action, May 20, 29.
- President* (French s.v.) Sunk by *U.C.75*, May 6, 23.
- Preston Captain Lionel George, C.B. Superintendent of Minesweeping. Proposes extension of War Channel, May 26, 125.
- Prim* (decoy ship) See *Cullist*.
- Prime Minister See "Lloyd George."
- Primrose* (sloop) *San Onofre* sunk under escort of, May 12, 20; escorts oilers, July 9, 262.
- Primrose* (British f.v.) Sunk by *U.B.20*, May 18, 65.
- Prince* (t.b.d.) Attacks submarine, June 21, 173.
- Prince Abbas* (British s.s.) Sunk in convoy by *U.52*, July 9, 271, 285 f.n.
- Princess* (British s.s.) Sights periscope, May 11, 64.
- Princess Helena* (British s.s.) .. Attacked by *U.B.21*, Apr. 29, 79 n.
- Princess Margaret* (minelayer) .. Lays mines, May 20, 13.

- Prinz Hendrik der Nederland* (Dutch f.v.) Sunk by *U.B.* 20, May 7, 92.
- Prinz Regent Luitpold* (German battleship) Disorders in, July–August, 297.
- Prize* (decoy ship *Q.21*). Called also *First Prize* and *Else*. Severely damages *U.93*, Apr. 30, 106; picks up survivors of *King David*, July 15, 236.
- Proefneming* (Dutch f.v.) .. Sunk by *U.49*, July 3, 236.
- Protect* (net drifter) .. Sunk by mine, March 16, 180.
- Pulleyne, Lieutenant Richard Ivor. Commanding *E.34*, lays mines, May 12, 12.
- Puma* (decoy ship *Q.36*). Called also *Pevenil* and *Stephenson*. In action with *U.B.31*, July 9, 203, 231.
- Purdon, Mr. W. P. .. Master of *Benguela*, awarded D.S.C., 240.
- Purley* (British s.s.) .. Sunk by submarine, July 25, 244, by *U.46*, 257 f.n.
- Pustkuchen, Oberleutnant Herbert Commanding *U.C.66*, lost in her, May or June, 72.
- Q.4* (decoy ship) .. See *Carrigan Head*.
- Q.6* (decoy ship) .. See *Zylpha*.
- Q.7* (decoy ship) .. See *Penshurst*. Called also *Manford*.
- Q.8* (decoy ship) .. See *Vala*.
- Q.9* (decoy ship) .. See *Mitchell*. Called also *Mary B. Mitchell*, *Amaris*, *Brine*, *Neptun*, *Marie Therese* and *Eider*.
- Q.10* (decoy ship) .. See *Begonia*. Called also *Dolcis* and *Jessop*.
- Q.11* (decoy ship) .. See *Tamarisk*. Called also *Compatriot* and *Fernbridge*.
- Q.12* (decoy ship) .. See *Tulip*.
- Q.13* (decoy ship) .. See *Aubretia*. Called also *Winton* and *Zebal*.
- Q.14* (decoy ship) .. See *Viola*. Called also *Cranford* and *Damaris*.
- Q.15* (decoy ship) .. See *Salvia*.
- Q.16* (decoy ship) .. See *Heather*. Called also *Bywater* and *Seetrus*.
- Q.17* (decoy ship) .. See *Helgoland*. Called also *Brigio*, and *Horley*.
- Q.21* (decoy ship) .. See *Prize*. Called also *First Prize* and *Else*.
- Q.22* (decoy ship) .. See *Gaelic*. Called also *Brig II*, and *Gobo*.
- Q.24* (decoy ship) .. See *Laggan*. Called also *Pladda*, *Grammer*, *Restituo*.
- Q.25* (decoy ship) .. See *Paxton*. Called also *Lady Patricia* and *Tosca Sverige*.
- Q.26* (decoy ship) .. See *Mavis*. Called also *Myroca*.
- Q.28* (decoy ship) .. See *Merops*. Called also *Ilma*, *Maracaibo*, *Toofa*, and *Steady*.
- Q.34* (decoy ship) .. See *Action*. Called also *Harelda*, *Woffington*, and *Gandy*.

- Q.35* (decoy ship) .. See *Rule*. Called also *Ouse*, *Cassor*, and *Baryta*.
- Q.36* (decoy ship) .. See *Puma*. Called also *Pevenil* and *Stephenson*.
- Q. ships* .. Losses, June, 159; in July, 263.
- Queen Adelaide* (British s.s.) .. Sunk under escort by *U.70*, June 18, 150, 173.
- Queen Elizabeth* (battleship) .. Flagship of Commander-in-Chief, Grand Fleet, H.M. the King stays on board, June 21–25, 145.
- Queen of the North* (paddle mine-sweeper). Sunk by mine, July 20, 267.
- Queen's Channel .. Swept periodically, 2.
- Queenstown Force. See Bayly .. Strength of, May 1, 107; July 31, 262.
- Querida* (British s.s.) .. Attacked by *U.C.61*, May 1, 59.
- Quermore* (British s.s.) .. Sunk by submarine, July 31, 246, by *U.82*, 255.
- Rabymere* (British s.s.) .. Missed by torpedo, May 25, 68.
- Radioléine* (French oiler) .. Torpedoed by *U.96*, July 23, 262.
- Raid .. German High Sea Fleet, expected, May 16, 6.
- Raids, Air .. See "Air Raids."
- Raider, enemy .. Sweep for, April 29—May 5, 1.
- Raikes, Lieutenant-Commander Robert Henry Taunton, D.S.O. Commanding *E.54*, sinks *U.81*, May 1, 17; attacks submarine, May 16, 30.
- Ramillies* (British s.s.) .. Sunk by submarine, July 21, 240, by *U.58*, 255.
- Ramsay, Lieutenant-Commander Robert Bertram. Commanding *J.1*, attacks submarine, July 28, 288.
- Rapid* (t.b.d.) .. Attacks *U.30*, May 17, 30.
- Ravenstone* (decoy ship) .. See *Dunlevon*.
- Raw, Lieutenant Frederick Edward. Commanding *P.50*, attacks submarine, June 8, 72.
- Raymond, Lieutenant Hugh Evelyn. Commanding *P.12*, attacks *U.B.18*, May 2, awarded D.S.C. 58.
- Raymond Esther* (British s.v.) .. Sunk by *U.C.48*, May 1, 57.
- Rear Admiral East Coast of England. See "Nicholson, S."
- Rear Admiral, 1st Battle Squadron See "Nicholson, W. C. M."
- Recono* (armed trawler) .. Attacks *U.B.31*, July 10, 203.
- Recruit* (t.b.d.) .. In action, May 17, 8.
- Redgauntlet* (t.b.d.) .. Damaged by British mine, May 21, 11 f.n., 122.
- Redoubt* (t.b.d.) .. Attacks *U.C.64*, May 18, 10.
- Refugio* (British s.s.) .. Sunk by *U.57*, May 12, 28.
- Regnant, Lieutenant-Cdr. Cornelius Octavius. Commanding *G.12*, in operation *B.B.*, June 15–24, 176.
- Regulus* (French patrol vessel) .. Attacks submarine, May 11, 59, possibly *U.B.36*, or *U.C.61*, 64, 122 f.n.
- Relentless* (t.b.d.) .. Sees *Avenger* sink, June 14, 140.

- Renard* (French armed trawler) .. 204.
Renate Leonhardt (German s.s.) .. Disabled by Harwich destroyers, July 16, 188 f.n.
Restituo (decoy ship Q.24) .. See *Laggan*.
Restless (t.b.d.) .. Escorts convoy *H.H.11*, August 6, 248.
Revenge (battleship) .. Flagship of 1st B.S. Inspected by H.M. the King, June, 145.
Rhesus (British s.s.) .. Attacked by *U.49*, July 14, 236.
Ribston (British s.s.) .. Sunk by *U.45*, July 16, 235, 262, 262.
Richard D. Larinaga (British s.s.) .. Collides with *Devonshire*, July 23, 251 f.n.
Richardson, Lieut. Frederick A. Commanding *P.60*, severely damages *U.B.23*, July 26, awarded D.S.C., 211.
Rigmor (Danish s.s.) .. Attacked by *U.52*, July 9, 271; sunk in convoy by *U.67*, July 28, 274, 285 f.n.
Rikard Nordraak (Norwegian s.s.) .. Sunk by *U.B.21*, May 2, 79A.
Rob Roy (t.b.d.) .. Escorts convoy *H.H.11*, August 6, 248.
Rockingham (U.S.A. s.s.) .. Sunk by *U.69*, May 1, 16.
Roehr, Kapitänleutnant Walter .. Commanding *U.84*, July, 234.
Roma (Russian s.v.) .. Attacked by *U.88*, May 28, 39.
Room 40 .. June, 168.
Rorqual (armed whaler) .. 276.
Rosabelle (armed yacht) .. Attacks *U.87* and saves *Bernisse*, May 23, 38.
Rosemary (sloop) .. Escorts convoy *H.H.11*, August 6, 248.
Roskeen (decoy trawler), called also *Hunter*, *Bendigo II*, *Ethulwulf II*, *Aldebaran*, *New Comet*, and *General*. .. Encounters *U.C.29*, April 24, 79; encounters *U.C.40*, May 15, 84, 129.
Rostellel (U.S.A. s.v.) .. 203.
Rota (British s.s.) .. Sunk by submarine, July 22, 206, 210.
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Rowan (U.S.A. t.b.d.) .. Arrives at Queenstown, May 24, 113 f.n.
Rowena (t.b.d.) .. Attacks submarine, May 16, 86, probably *U.C.31*, 129; attacks submarines, June 15, 18 and 24, 177; escorts, oilers, July 23, 241.
Rowley - Conwy, Captain Rafe Grenville. .. Commanding *Nimrod*, in action May 10, 3.
Roxburgh (cruiser) .. Escorts first Atlantic convoy, *H.H.1*, May 24-June 6, 164, 169; escorts convoy *H.H.6*, July 2-18, 250, 251.
Royalist (l.c.) .. Lays mines, May 12, 12; May 18-19, 13; May 22, 13; May 30-31, 13; June 13-14 and 23, 146; July 25, 193, 268.

- Royal Scot* (armed boarding steamer) 276.
Ruby (t.b.d.) .. At Devonport, May 28, 124; attacks submarine, July 24, 210; attacks submarine, August 7, 248.
Rule (decoy ship Q.35) .. Called also *Ouse*, *Cassor* and *Baryta*, 31, 124; leaves Gibraltar with convoy, May 10, 135A.
Russie (French s.v.) .. Sunk by *U.C.72*, May 2, 56.
Rustington (British s.s.) .. Sunk by *U.54*, July 25, 245.
S.17 (German t.b.d.) .. Sunk by mine, May 16, 12.
S.20 (German t.b.d.) .. Sunk by Harwich Force, June 5, 139.
S.24 (German t.b.d.) .. Severely damaged by Harwich Force, June 5, 139.
S.53 (German t.b.d.) .. Leader of 3rd Flotilla, in action with Harwich Force, May 10, 3.
S.54 (German t.b.d.) .. In action with Harwich Force, May 10, 3.
S.55 (German t.b.d.) .. In action with Harwich Force, May 10, 3.
Sable (t.b.d.) .. In Operation B.B., June 15-24, 173.
Sachem (Commissioned Escort Ship) .. Escorts convoy *H.H.8*, July 10-27, 250, 251.
Safeguard (coastguard cruiser) .. Tows *Roma* to Berehaven, May 28, 39.
Sahara (French s.s.) .. Engages submarine, May 5, 23.
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- Tintoretto* (British s.s.) Attacked by *U.53*, July 1, 234A.
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- Tore Jarl* (Norwegian s.s.) .. Sunk in convoy by *U.C.51*, May 7, 85.
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- U.69 On cruise to West Coast of Ireland, April 11–May 6, 15, 16; on cruise to West Coast of Ireland, May 24–June 17, 44, and Channel Approach, 148; sinks *Avenger*, June 14, 140, 175, 186; homeward bound during Operation B.B., June, 172; destroyed probably July 12 by *Patriot*, 186, 192, 196 f.n., 233, 241A, 265 f.n., 289 f.n.
- U.70 On cruise to the Bay, May 28–June 22, 47A, and Channel Approach, 148; sinks *Southland*, June 4, 149, 150; cruise of, May 28–June 22, 150, 161; homeward bound during Operation B.B., June, 172; sinks *Queen Adelaide*, June 18, 173.
- U.71 (minelayer) On cruise to the Shetlands, May 20–June 9, 37; on cruise to North West Approach, July 7–26, 233; lays mines, May 31, 266.
- U.75 (minelayer) On cruise to North of Ireland, May 28–June 19, 47A, 148; homeward bound during Operation B.B., June, 172.
- U.78 (minelayer) On cruise to West Coast of Scotland, May 28–June 22, 47A, 148; sinks *Batoum*, June 19, 162; homeward bound during Operation B.B., June 172; sinks *Fornebo*, June 17, 173 f.n.; on cruise to Westward, July 27–August 13, 233.

"U" Submarines (German High Sea Fleet)—*continued.*

- U.79 (minelayer) On cruise to North Coast of Ireland, June 6–July 3, 148, 161.
- U.80 (minelayer) On cruise to West Ireland, May 1–26; 26; mines Berehaven, May 12, 109; on cruise to Shetlands, West, June 23–July 10, 148, 155; lays mines, June 26, 27 and 28, 157, 233 outward bound during Operation B.B., June, 172.
- U.81 Sunk by *E.54*, May 1, 17, 97, 106.
- U.82 On cruise to Ireland S.W. and Channel Approach, June 3–24, 148; may have torpedoed *Zylpha*, June 11, 159; homeward bound during Operation B.B., June, 172; on cruise to South West Approach, July 15–August 8, 233, 246, 255, 257.
- U.84 On cruise to Channel Approach and Bay, June 17–July 15, 148, 233, 234, 290; outward bound during Operation B.B., June, 172, 174.
- U.86 On cruise to the Atlantic and Channel Approach, May 15–June 9, 36, 116; 124, 148; on Lerwick–Bergen Route, July 2–11, 265, 282, 288.
- U.87 On cruise to North and South West Approach, May 20–June 9, 38, 115, 116, 124, 148; on cruise to South West Approach, July 1–24, 233, 239, 260, 261; hit by *Cullist*, July 13, 263.
- U.88 On cruise to Channel Approach, May 22–June 9, 39, 116, 124; on cruise to South Coast of Ireland, June 25–July 19, 148, 233, 256, 264; sinks *Cavina* June 1, 149.
- U.93 Severely damaged by *Prize*, April 30, 106; on cruise to Ireland North West, June 18–July 13, 148, 233; outward bound during Operation B.B., June, 172, 174.
- U.94 In North Sea, April 29–May 5, 25; on cruise to Ireland W. and S.W., June 5–July 2, 148, 162; in the North of Ireland Approach, June 11 and 12, 161; on Lerwick–Bergen Route, July 26–August 19, 265, 274, 279.
- U.95 On cruise to Westward, May 29–June 18, 47A, 148; sinks *Polyxena*, June 11, 149; homeward bound during Operation B.B., June 172; attacked by *K.7*, June 16, 178, 179 f.n.; on cruise to South West Approach July 11–August 5, 233, 242, 251.

"U" Submarines (German High Sea Fleet)—*continued.*

- U.96* On cruise to Channel Approach, May 28–June 20, 47a, and Ireland, S.W., 148; may have torpedoed *Zylpha*, June 11, 159; homeward bound during Operation B.B., June, 172, on cruise to Westward, July 10–30, 233, 261, 262.
- U.99* Sails for cruise in North Sea, June 12, sunk, 148, 155, 156, 196, 265, 268, 288; on Lerwick–Bergen Route during Operation B.B., June, 172; may have torpedoed *Itchen*, July 6, 184.
- U.100* Sinks *Gunhild*, June 17, 177; on cruise to the Westward, July 17–August 12, 233.
- U.101* On cruise to Westward, July 16 to August 8, 233.
- U.155* (ex *Deutschland*) .. On cruise to the Azores area, May 23–September 5, 42, 148, 233, 296.

"U.B." Submarines (German)—

- U.B.12* (minelayer) Lays mines, England S.E. and the Channel, May 4, May 15, May 21, and May 26, 91.
- U.B.18* On cruise to the Channel, April 27–May 3, 48, 58; encounters *Glen*, May 17, 52a, f.n., 62, on cruise in the Channel, May 9–19, 62; on cruise to the Channel, May 31–June 14, 75, 151; may have sunk *Wilhelm*, June 7, 164; in the Hoofden, July 21–29, 200, 265, 283.
- U.B.20* Attacked by S.P.9846, May 15, 64 f.n., 65, on cruise to the Channel, May 13–23, 65; in the Hoofden, May 1–8, 92, 130 f.n.; probably sunk by mine, July 28, 190, 196 n., 199, 200, 215, 265, 283.
- U.B.21* (High Sea Fleet) .. In North Sea, April 26–May 9, 78, 79A, 129; in North Sea, May 29–June 12, 78, 90, 148, 155; in North Sea, July 14–29, 265, 275.
- U.B.22* (High Sea Fleet) .. In North Sea, April 26–May 8, 78, 80; in North Sea, June 14–30, damaged by depth charges, June 26, 155; in North Sea, July 18–August 14, 265, 277.
- U.B.23* On cruise to the Channel, May 28–June 6, 74, 151; on cruise to Channel W. and Approach, June 23–July 6, 151; 199, 202; arrives at Corunna, July 29, 196 n., 199, 200, 215, 220; interned at Ferrol, 211; disabled by *P.60*, July 26, 241A f.n.
- U.B.27* Sunk by *Halcyon*, July 29, 196 n., 199, 200, 215, 265, 283.

"U.B." Submarines (German)—*continued.*

- U.B.31* On cruise to the Channel, April 22–May 3, 48, 51; on cruise to the Channel, May 14–25, 67A; on cruise to Channel W. and Approach, June 7–19, 151; on cruise to the Channel, June 30–July 13, 199, 200, 203, 230, 231.
- U.B.32* On cruise to the Channel, April 22–May 2, 48, 52; on cruise to the Channel, June 6–17, 151; in the Channel, July 6, 203, 249.
- U.B.35* In the Hoofden, July 21–24, 200, 265, 283.
- U.B.36* Sails for cruise in Channel, May 9; does not return, 64, 97, 122, 147 f.n.
- U.B.38* On cruise to the Channel, April 25–May 7, 48, 53; on cruise to the Channel, May 22–29, 71, 120.
- U.B.39* Sails for the Channel, April 23, did not return, 48, 52A, 62 f.n., 147 f.n.
- U.B.40* On cruise to the Channel, April 30–May 5, 48, 60; on cruise in the Channel, May 13–22, 62 f.n., 66, 104, 119; on cruise to the Channel, June 3–13, and June 25–July 3, 151, 199; on cruise to the Channel, July 14–25, 200, 206.
- U.B.41* On cruise to England N.E., May 17–27, 78, 88; attacked and possibly damaged by *Talisman*, May 25, 129.
- U.B.61* Sunk by mine, November 29, 13.
- U.B.81* Sunk by deep mine, December 2, 232.

"U.C." Submarines, Minelayers (German)—

- U.C.1* Lays mines, England S.E. and the Channel, May 8, May 16, and May 26, 91; may have been attacked by S.P.8667, May 10, 92, 131; sunk by mine, July 18–19, 196 n., 199, 200, 215.
- U.C.4* Lays mines in North Sea, May 2, May 10, May 19 and May 26, 91; lays mines, July, 267.
- U.C.6* Lays mines in North Sea, May 4, May 11, May 18 and May 26, 91; lays mines, July, 267.
- U.C.11* Lays mines off the Shipwash, May 12, May 19, May 25 and May 31, 91; lays mines, July, 267.
- U.C.14* Lays mines, England, S.E., May 15, May 21 and May 30, 91; lays mines, July, 267.
- U.C.16* In the North Sea, July 25–30, 200, 265, 283.

"U.C." Submarines, Minelayers
(German)—*continued.*

- U.C.17* On cruise in the Channel, May 8-21, 63; lays mines, May 10-11, 63, 121, 122; attacks *L'Hermite*, May 16, 135A; on cruise to Channel W. and Approach, June 14-28, 151, 153, 160; on cruise to the Channel Approach, July 14-29, 199, 200, 208, 290, 292; attacked by aircraft, July 29, 215 f.n.
- U.C.21* On cruise to the Bay, May 19-June 3, 70, 151; in the Hoofden, June 28-July 4, 151, 200, 265, 283.
- U.C.24* Lost in Mediterranean, May, 97.
- U.C.26* On cruise to the Channel, Le Havre, April 30-May 8, lays mines, May 2 and 3, and is sunk by *Milne*, May 8, 61, 97, 122, 147 f.n.
- U.C.29* On cruise to South-West of Ireland, May 29-June 7, 47. On cruise to England N.E., April 22-May 4, 78, 79; in action with *Roskeen*, April 24, 129; sunk, June 7, 148, by *Pargust*, 149, 158, 263, probably in North of Ireland Approach, June 3 and 4, 161; 196.
- U.C.30* Sunk, probably by mines laid on April 18, 12 f.n.
- U.C.31* (High Sea Fleet) .. On cruise to the Orkneys, May 5-20, 78, 86, lays mines May 8 and May 10, 86; probably attacked by *Rowena*, May 16, 129; on cruise to South Coast of Ireland, June 20-July 10, 148, 233. Outward bound during Operation B.B., June, 172, 174.
- U.C.33* (High Sea Fleet) .. On cruise to South Coast of Ireland, May 13-28, 31; lays mines, May 17 and 18, 31; on cruise to Shetlands June 24-July 8, 148, 155, 265, 270; lays mines, June 27, 157; lays mines, June 29, 266.
- U.C.36* On cruise to the Bay, April 18-May 2, 48, 50; lost with all hands, May, 64, 97; sails on cruise to the Channel, May 16, does not return, 67, 122, 147 f.n.; allotment of loss of to S.P.8663 in January, 1919, considered highly improbable, 92 f.n.; may have sunk *Ferdinand A*, May 21, 103 f.n., 118.
- U.C.40* (High Sea Fleet) .. In North Sea, May 6-17, 78, 84, possibly attacked by a seaplane, May 14, 129; attacked by *Roskeen*, May 15, 129; probably attacked by *Miranda II*, May 17, 129; in North Sea, July 28-August 13, 265, 281.

"U.C." Submarines, Minelayers
(German)—*continued.*

- U.C.41* (High Sea Fleet) .. On cruise to South-West Approach, May 26-June 15, lays mines, May 30 and 31, 45, 148; on cruise to South-West Approach, July 11-28, 233, 243.
- U.C.42* (High Sea Fleet) .. In North Sea, May 2-15, 78, 83, possibly attacked by a seaplane, May 14, 129; on cruise to South Coast of Ireland, June 7-28, 148; in North Sea, July 25-August 9, 265, 278; lays mines, July 30, 266.
- U.C.44* (High Sea Fleet) .. On cruise to South Coast of Ireland, May 14-30, 34; lays mines, May 19, 34; on cruise to Ireland S.W., June 23-July 9, 148, 233, 234B; outward bound during Operation B.B., June, 172.
- U.C.45* (High Sea Fleet) .. On cruise to Ireland, May 22-June 10, 40, 148; sinks *Premius*, June 4, 149; in North Sea, July 7-20, 265, 273; lays mines, July 9, 265.
- U.C.47* On cruises to the Channel, July 14-22 and July 25-August 2, 199, 200, 207, 213.
- U.C.48* On cruise to Bristol Channel, April 26-May 10, 48, 57, 122; on cruise to the Bay, June 4-20, 151, 154; on cruise to the Channel, July 12-21, 200, 205.
- U.C.49* (High Sea Fleet) .. In North Sea, May 2-17, 78, 82; in North Sea, July 15-August 2, 265, 276; lays mines, July 19, 266.
- U.C.50* On cruise to West Coast of Ireland, May 14-June 6, 35, 148; lays mines, May 21, 35; on cruise to the Channel, July 23-31, 200, 212.
- U.C.51* On cruise to the Orkneys, May 2-16, 78, 85; lays mines, May 6, May 7 and May 9, 85; on cruise to South Coast of Ireland, June 10-30, 148, sunk by deep mine, November 17, 232.
- U.C.54* Sails for Mediterranean, June 29, 233.
- U.C.55* (High Sea Fleet) .. On cruise to South-West Approach, May 24-June 9; 43, 148; in North Sea, July 5-16, 265, 272; lays mines, July 9, 266.
- U.C.61* On cruise to the Bay, April 26-May 15, 48, 59, 63 f.n.; lays mines, May 1, 59, 122; on cruise to Channel W. and Approach, June 23-July 8, 151, 199, 202, 218; stranded, July 26, 196 n., 199, 200, 214, 215, 220.

"U.C." Submarines, Minelayers
(German)—*continued.*

- U.C.62* On cruise to the Channel, May 16–June 1, lays mines, May 17 and 18, 68; in the Hoofden, April 30–May 6, 92, 130 f.n., on cruise to Ireland S., May 16–June 1, 151; on cruise to Channel W. and Approach, June 20–July 1, 151, 160; on cruise to the Channel, July 21–August 5, 200, 210, 212.
- U.C.63* In the Hoofden, May 3–11, 92, 130 f.n.; may have been attacked by *S.P.8667*, May 10, 92, 131; in the Hoofden, June 23–July 2, 151; in the North Sea, July 31–August 16, 199, 200; lays mines, 267.
- U.C.64* Attacked by *Stork* and *Redout*, May 18, 10; in the Hoofden, May 18–24, 92, 130 f.n.; probably attacked by *S.P.8658*, May 22, 131; in the Hoofden, June 19–26, 151; in the Hoofden, July 8–17, 200, 265.
- U.C.65* On cruises to Irish Sea, April 25–May 12, lays mines, April 30 and May 1, 54, 107, 110, 122; on cruise to the Channel and Bay, June 11–30, 151, 154, 160, 290; lays mines, June 16 and 17, 154; on cruise to the Channel, July 18–29, 200, 209, 218, 232.
- U.C.66* On cruise to the Irish Sea and Channel, April 15–May 3, 48, 49; sails on cruise to South Coast of Ireland, May 22, does not return, 71 f.n., 72, 97, 120, 147 f.n., 151; may have sunk *Wilhelm*, June 7, 164; sunk in July, 196.
- U.C.69* On cruise to the Bay, April 25–May 11, 48, 55; on cruise to the Bay, June 11–29, 151, 154; lays mines, June 15 and 16, 154; on cruise to the Bay, July 16–August 4, 199, 200, 290, 294.
- U.C.70* On cruise to the Channel and Bay, May 16–June 1, lays mines, May 21, 69, 122, 151.
- U.C.71* In the Hoofden, April 30–May 7, and May 13–20, 92, 130 f.n.; on cruise to the Channel, June 12–17, 151; on cruise to the Bay, June 24–July 8, 151, 199, 200, 290, 293.
- U.C.72* On cruise to the Bay, April 25–May 9, 48, 56, 59; on cruise to the Bay, May 26–June 12, lays mines, May 31–June 1, 73, 74 f.n., 151; on cruise to the Bay, June 30–July 19, 151, 199, 200, 290, 291; on Approach Route E, July 11–15, 260.

"U.C." Submarines, Minelayers
(German)—*continued.*

- U.C.73* Sails for Mediterranean, April 24, 22.
- U.C.75* (High Sea Fleet) .. On cruise to South Coast of Ireland, April 28–May 18, 23, lays mines, May 3–4, 23; on cruise to South Coast of Ireland, June 4–23, 148; homeward bound during Operation B.B., June, 172; on cruise to Irish Sea, July 22–August 5, 233, 251, 289.
- U.C.76* Blown up while embarking mines at Heligoland, about May 10, 33, 97.
- U.C.77* In North Sea, April 29–May 10, 78, 81, 129; in North Sea, May 27–June 9, 78, 89, 148, 155; on cruise to the Channel, June 7–15, 200, 204.
- Ugo Bassi* (Italian s.s.) Attacked by submarine, May 21, 67a.
- Ulla* (Danish s.s.) See under *Ulla* (Norwegian s.s.).
- Ulla* (Norwegian s.s.) 138; may have been a Danish s.s., 138 f.n.
- Ultonia* (British s.s.) Sunk by *U.53*, June 27, 160, 162.
- Unda* (Danish s.s.) 238.
- Undaunted* (l.c.) In action, May 17, 7.
- United* (British f.v.) Sunk by *U.C.48*, May 2, 57.
- United States of America .. Proposes closing North Sea with mines, May 14, 129; Navy Department, Washington, 253; *re* convoy organisation, 254; destroyers at Queenstown, Appendix G.
- Upton, Lieutenant Herbert Lionel, R.N.R. Commanding *Kestrel*, awarded D.S.C., May 27, 76.
- Uranienborg* (Danish s.s.) .. Attacked by *U.19*, June 21, 177.
- Urna* (Norwegian s.s.) Sunk by *U.C.21*, May 28, 70.
- Ussa* (British s.s.) Admiralty transport. Sunk by mine, May 3, 61.
- V.47* (German t.b.d.) Severely damaged by Harwich Force, June 5, 139.
- V.70* (German t.b.d.) In action with Harwich Force, May 10, 3.
- V.71* (German t.b.d.) In action with Harwich Force, May 10, 3.
- V.73* (German t.b.d.) In action with Harwich Force, May 10, 3.
- V.81* (German t.b.d.) In action with Harwich Force, May 10, 3.
- Vaarbud* (Norwegian s.v.) .. Sunk by *U.C.62*, July 25, 210.
- Vaering* (Danish s.s.) Sunk in convoy by *U.C.65*, June 18, 154.
- Vala* (decoy ship, *Q.8*) Attacks submarine, May 19, 31; attacks *U.C.44*, May 20, 34; attacked by submarine, July 20, 243, 263.
- Vale* (Norwegian s.s.) Sunk in convoy by *U.C.77*, May 4, 81.
- Valentia* (armed trawler) .. Attacks submarine, July 25, 277.
- Valentia* (British s.s.) Sunk by *U.C.41*, July 16, 243.
- Vale of Clyde* (armed trawler) .. Attacks submarine May 7, 81, 129.

- Vale of Lennox* (armed trawler) .. In action with submarine, May 30, 44.
- Valeria* (British s.s.) .. Attacks *U.62*, June 20, 156, 184 f.n.
- Valetta* (British s.s.) .. Sunk by *U.87*, July 8, 239, 260, 262.
- Vanda* (Swedish s.s.) .. Sunk in convoy by *U.52*, July 11, 186, 271, 285 f.n.
- Van der Bijl*, Commander Pieter G.V. Commanding *Ariadne*, lays mines, May 25, 26, 13.
- Vanduaara* (Norwegian s.v.) .. Sunk by *U.58*, May 2, 19.
- Vanguard* (battleship) .. Blows up at Scapa, July 9, 185.
- Vanland* .. Destroyed by *U.B.21*, July 23, 275, or by *U.B.22*, 277.
- Vaughan-Lee, Rear-Admiral Charles Lionel, C.B. Appendix G.
- Vendee* (British s.s.) .. Sunk by mine, July 8, 290.
- Veni* (Norwegian s.s.) .. Sunk by *U.C.17*, May 10, 63.
- Venturosa* (Portuguese s.s.) .. Sunk by *U.C.69*, July 26, 294.
- Venus* (German s.s.) .. Sunk by mine, June 17, 12.
- Verdun* (French f.v.) .. Sunk by *U.C.72*, May 4, 56.
- Vesterland* (Swedish s.s.) .. Sunk in convoy by *U.19*, May 17, 87.
- Vice-Admiral, Coast of Ireland .. See "Bayly."
- Vice-Admiral, Dover .. See "Bacon."
- Victoire* (French s.v.) .. Sunk by *U.C.72*, May 2, 56.
- Victoria* (British s.s.) .. Sunk by *U.B.21*, April 29, 79a.
- Victoria II* (Norwegian s.s.) .. Sunk by *U.C.71*, July 6, 293.
- Victorian* (a.m.c.) .. Detached from 10th Cruiser Squadron for convoy work, 140 f.n.
- Victorine Helene* (French f.v.) .. Attacked by *U.C.61*, May 3, 59.
- Victorious* (British f.v.) .. Sunk by *U.C.65*, May 4, 54.
- Viken* (Swedish s.s.) .. Sunk by *U.C.31*, May 17, 86.
- Viking* (Swedish s.s.) .. Torpedoed in convoy by *U.67*, July 24, 274, 285 f.n.
- Viktoria* (Norwegian s.s.) .. 138.
- Ville de Royan* (French s.s.) .. Attacked by *U.C.26*, May 4, 61.
- Viola* (decoy ship *Q.14*, called also *Cranford* and *Damaris*). In action with *U.C.41*, July 20, 243, 263.
- Vireo* (armed trawler) .. Attacks submarine, July 4, 156.
- Virginia* (U.S.A. s.s.) .. Chased by *U.C.21*, May 30, 70.
- Virginian* (a.m.c.) .. Detached from 10th Cruiser Squadron for convoy work, 140 f.n.; escorts convoy *H.S.2*, July 20–August 1, 250, 251.
- Vittoria* (decoy ship) .. See *Pargust*.
- Voorwarts* (Dutch s.v.) .. Sunk by *U.C.64*, May 20, 92.
- Vordingborg* (Danish s.s.) .. Sunk by *U.C.77*, July 11, 204.
- Voss* (Norwegian s.s.) .. Sunk by *U.C.69*, May 6, 55.
- Vulcan* (submarine depôt ship) .. Reinforces Auxiliary Patrol (Lough Swilly), with eight submarines, May 9, 110, 237, 264.

- Wabasha* (British oiler) .. Torpedoed in convoy *H.H.4* by *U.B.32*, July 6, 169, 203, 218 f.n., 249.
- Wadsworth* (U.S.A. t.b.d.) .. Arrives at Queenstown, May 4, 109 f.n.; sent to Approach Route A, May 31, 116; attacks submarine, July 29, 251.
- Wagenfuhr*, Kapitänleutnant .. Commanding *U.44*, lost in her, August 12, 248.
- Wahine* (minelayer) .. Lays mines, May 20, 25 and 26, 13, July 8 and 14, 209; lays deep mines, June and July, 232.
- Wainwright* (U.S.A. t.b.d.) .. Arrives at Queenstown, May 4; missed by torpedo, May 12, 109; sent to Approach Route A, May 31, 116; saves *Oakfield*, August 9, 247.
- Waipara* (British s.s.) .. Attacked by submarine, July 23, 244.
- Waistell, Captain Arthur Kipling, C.B. (Commodore, 2nd Class). Commodore (S), July, 288.
- Waldemar* (Norwegian s.s.) .. Sunk by *U.C.21*, May 28, 70.
- Walters, Lieutenant - Charles William. Commanding *Balham*, attacks submarine, June 3, awarded D.S.C., 72.
- Wapello* (British oiler) .. Sunk by *U.C.71*, June 15, 152.
- War Channel .. Extended to St. Abbs Head, May 26–July 4, 125; traffic in, July, 284.
- Ward, Lieutenant - Commander Victor Essendene. Commanding *E.33*, bombed by plane, May 20, 131.
- Warnow* (British s.s.) .. Sunk by *U.C.48*, May 2, 57.
- Warpole* (armed trawler) .. Reports submarine, June 17, 173.
- Warrington* (U.S.A. t.b.d.) .. Leaves St. John's for Queenstown, May 26, 113 f.n.; attacks submarine, July 13, 237.
- Warton, Captain John Fenwick .. Commanding *Kildonan Castle*.
- War Trade Department .. 286.
- War Warnings .. 258, 261.
- Wassner, Kapitänleutnant Erwin. Commanding *U.C.69*, on cruise to the Bay, June 11–29, 154.
- Watkins, Lieutenant Commander Geoffrey Robert Sladen. Commanding *E.45*, lays mines, June 1, 146.
- Watkins, Second Lieutenant L.P., Canadian Army. Shoots down *L.48*, June 16, 143 f.n.
- W. D. Potts* .. Sunk by *U.C.65*, May 1, 54.
- Webb, Captain Richard, C.B. .. Acting Director of Trade Division. Puts forward a Diversion Code, May 15, 105.
- Weissbach, Kapitänleutnant Raimund. Commanding *U.81*, sunk by *E.54*, May 1, Saved, 17.
- Welholme* (decoy ship) .. See *Wonganella*.
- Wells, Captain Lionel de L., C.M.G. Naval Vice-Consul at New York. Appointed Commodore, 1st Class, to organise convoys at Hampton Roads, May 3, 164.
- Wemyss, Vice-Admiral Sir Rosslyn Erskine, K.C.B., C.M.G., M.V.O., C.-in-C., East Indies. Appointed C.-in-C., Mediterranean, June 20, 198; Appointed Deputy First Sea Lord, 198.
- Werribee* (decoy ship) .. See *Wonganella*.

- Westfalen* (German battleship) .. Disorders in, August, 297.
Westland (Dutch f.v.) Sunk by *U.C.71*, May 2, 92.
Westland (Dutch s.s.) Sunk by mine, May 25, 91.
Westmeath (British s.s.) Damaged by submarine, July 15, 205.
 Weston, Commander Digby St. Aubyn Percy. At inquiry into loss of *Vanguard*, 185.
Westphalia (decoy ship) See *Cullist*.
Westphalia (German s.s.) Sunk by *E.41*, June 27, 146, 181.
Weymouth II (armed trawler) .. 236.
Whinlatter (Norwegian s.v.) .. Burned by *U.C.33*, May 25, 31.
White Ear (armed trawler) .. 66.
Whitefriars (armed trawler) .. Tows *Mavis*, June 4, 159.
Whitehall (British s.s.) Sunk by *U.95*, July 28, 242, 250 f.n., 251.
 Whitehead, Captain Frederick Aubrey. Commanding *Roxburgh*, escorts first Atlantic convoy, May 24, 164; escorts convoy *H.H.6*, July 2-18, 251.
White Oak (Hydrophone drifter) Attacks submarine, June 4, 72.
 Wilde, Commander James S. .. Trade Division. On Convoy Committee, May 17, 166 f.n.
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Wilhelm (British s.v.) Sunk by submarine, June 7, 164.
 Wilhelms, Kapitänleutnant Ernst Commanding *U.69*, sinks *Avenger*, June 14, 140; lost in *U.69* about July 12, 186.
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 Williams, Private John, R.M.L.I. *Vanguard* survivor, July 9, 185.
 Williams, William, D.S.M., R.N.R. Seaman in *Pargust* at sinking of *U.C.29*, June 7, awarded V.C., 158.
 Williamson, Lieutenant (acting) James Alexander, R.N.R. Killed in action, May 5, 23.
 Wills, Captain Charles Samuel .. Commanding *Erebus*, bombards Ostend, June 5, 139A; awarded D.S.O., 139A f.n.
Windward Ho (British f.v.) .. Sunk by mine, May 9, 82.
Winslow (U.S.A. t.b.d.) Arrives at Queenstown, May 24, 113 f.n.; re *Whitehall*, July 29, 242.
Winton (decoy ship *Q.13*) .. See *Aubretia*.
Wirral (British s.s.) Sunk in convoy by *U.19*, May 12, 87.
Woffington (decoy ship *Q.34*) .. See *Acton*.
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Wonganella (decoy ship), called also *Thornhill*, *Werrabee*, and *Welholme*. Missed by torpedoes, June 18 and 19, 162.
 Wood, Captain Arthur Edmund .. Captain (D), Plymouth, 226.
Worsley Hall (British s.s.) .. Attacked by submarine, July 31, 246.
W.P.G. (Hydrophone drifter) .. Attacks submarine, June 4, 72.
 Wünsche, Kapitänleutnant Otto Commanding *U.70*, on cruise to Ireland S., May 28-June 22, 150.

- Yarmouth* (light cruiser) Hunts raider, August, 248.
Yorkshire (British s.s.) Attacked by *U.C.65*, May 4, 54.
Yvonne (French s.v.) Sunk by *U.C.72*, May 2, 56.
Zarefah (armed yacht) Sunk by a mine, May 8, 86.
Zateja (Russian s.v.) Sunk by *U.45*, July 24, 235.
Zebal (decoy ship *Q.13*) See *Aubretia*.
Zeebrugge Bombarded, May 12, 4.
Zephyr (t.b.d.) Attacked by submarine, May 23, 92, 131.
Zermatt (British s.s.) Sunk by *U.46*, July 24, 244, 257 f.n.
Zinnia (Sloop) Saves *Jorgen Olsen*, May 4, 20.
Zylpha (decoy ship *Q.6*) Torpedoed, June 11, sinks June 15, 159, 263 f.n.

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NAVAL STAFF MONOGRAPHS
(HISTORICAL)
VOL XIX (19)

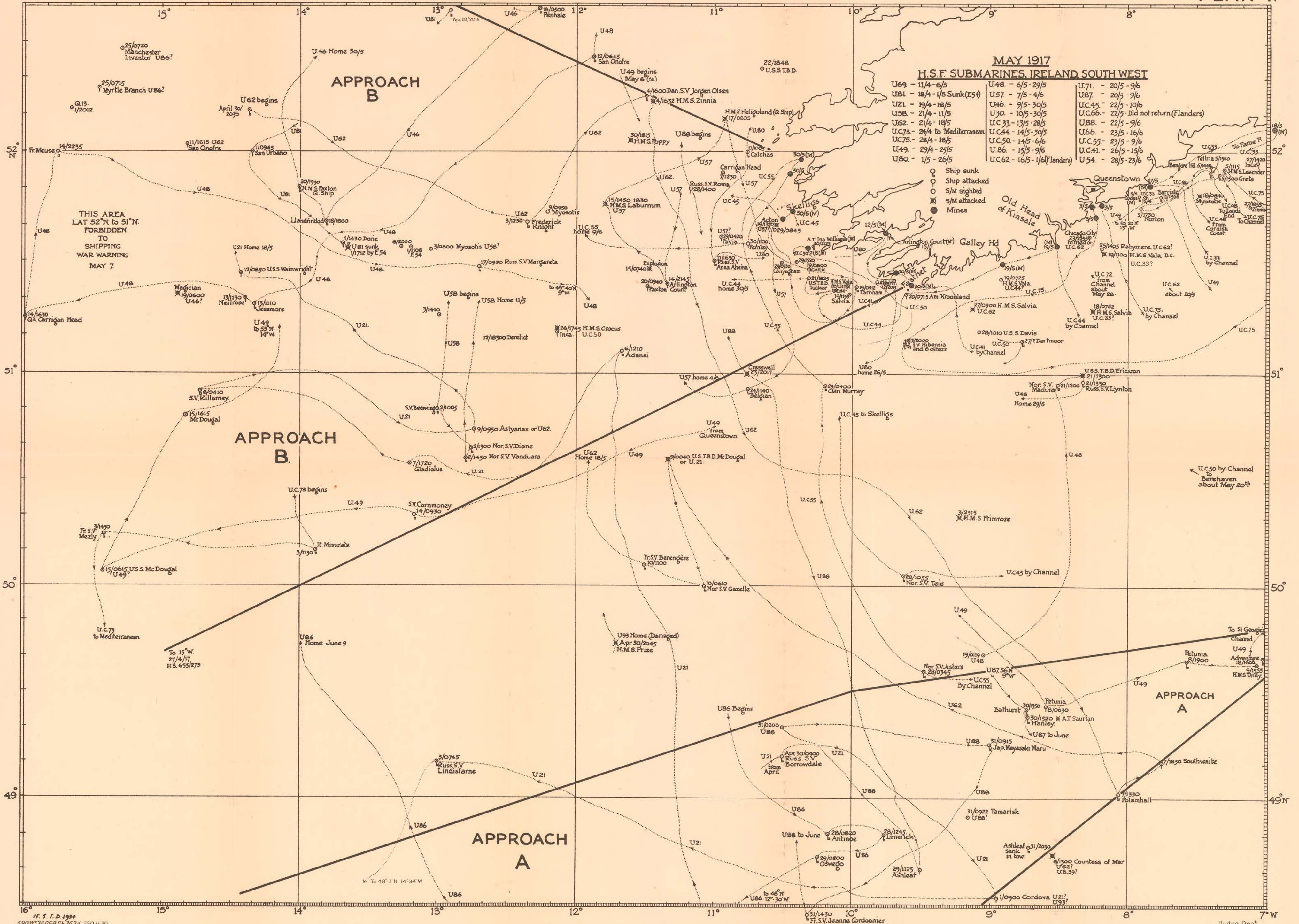
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LIST OF PLANS CONTAINED HEREIN

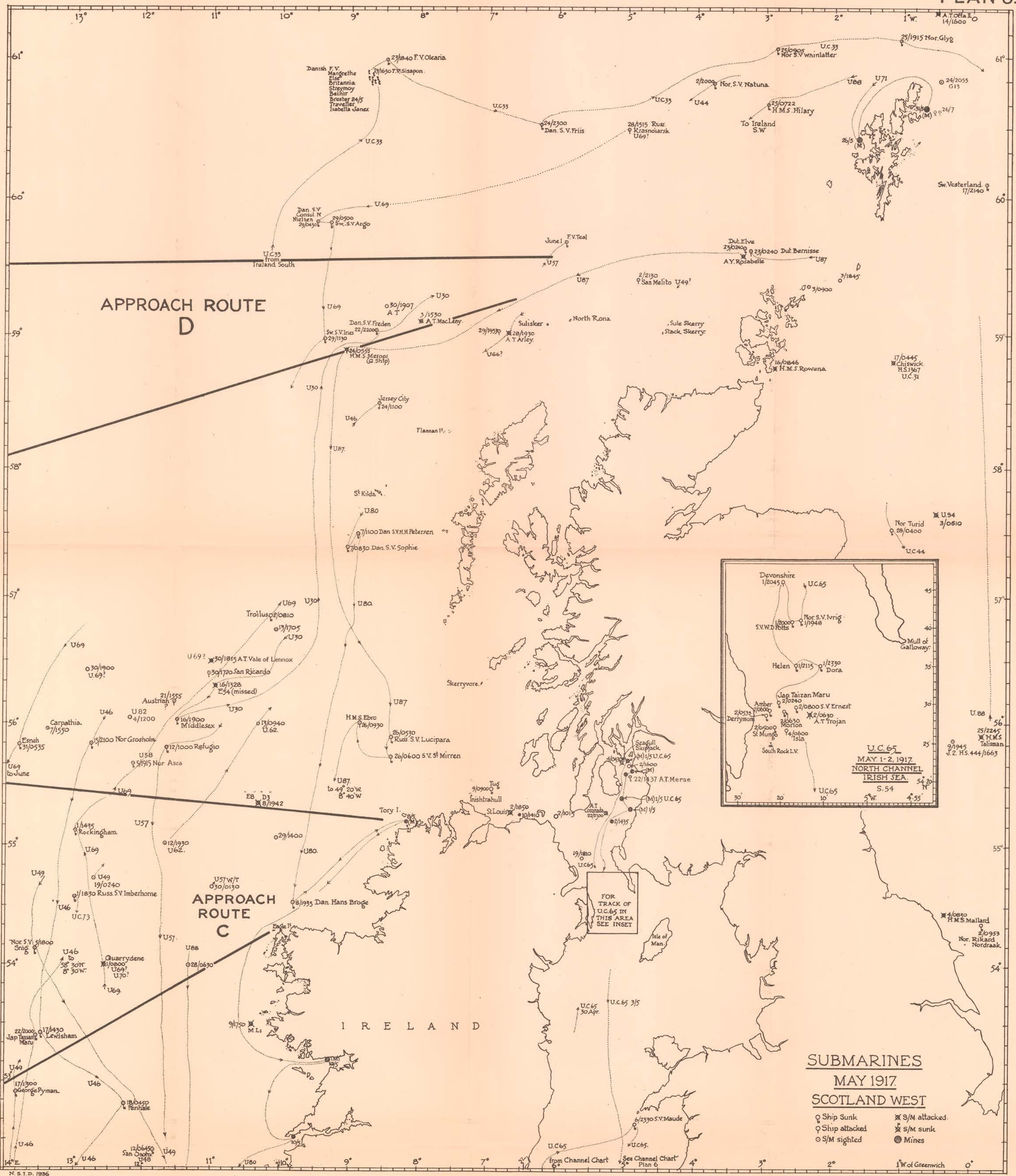
- | <i>Plan No.</i> | <i>Title.</i> |
|-----------------|---|
| 4. | Submarines, S.W. Approach, May, 1917. |
| 5. | Submarines, Scotland, West, May, 1917. |
| 6. | Submarines (Flanders), Channel, May, 1917. |
| 7. | Submarines, Bay, May, 1917. |
| 8. | Operation B.B., Anti-submarine, June 15-24, 1917. |
| 13. | Mine Nets, Flanders, July 25, 1917. |
| 14. | Submarines, S.W. Approach, July, 1917. |
| 16. | Submarines, Channel, July, 1917. |
| 17. | Submarines, North Sea, July, 1917. |
| 19. | Submarines, Bay, July, 1917. |



**MAY 1917
H.S.F. SUBMARINES, IRELAND SOUTH WEST**

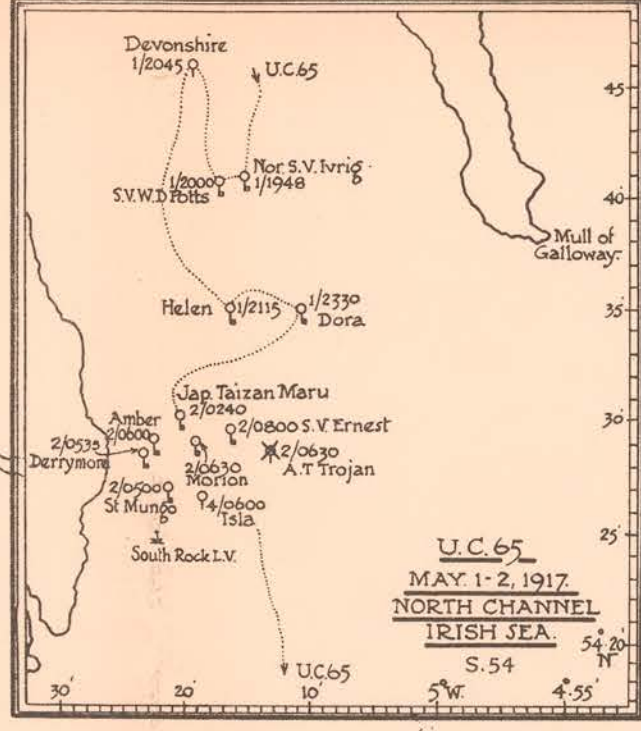
- | | | |
|------------------------------|--------------------|---|
| U69 - 11/4 - 6/5 | U48 - 6/5 - 29/5 | U71 - 20/5 - 9/6 |
| U81 - 18/4 - 1/5 Sunk (E54) | U57 - 7/5 - 4/6 | U87 - 20/5 - 9/6 |
| U21 - 19/4 - 18/5 | U46 - 9/5 - 30/5 | UC45 - 22/5 - 10/6 |
| U58 - 21/4 - 11/5 | U30 - 10/5 - 30/5 | UC66 - 22/5 - Did not return (Flanders) |
| U62 - 21/4 - 18/5 | UC33 - 13/5 - 28/5 | U88 - 22/5 - 9/6 |
| UC73 - 24/4 to Mediterranean | UC44 - 14/5 - 30/5 | U66 - 23/5 - 16/6 |
| UC75 - 28/4 - 18/5 | UC50 - 14/5 - 6/6 | UC55 - 23/5 - 9/6 |
| U49 - 29/4 - 25/5 | U86 - 15/5 - 9/6 | UC41 - 26/5 - 15/6 |
| U80 - 1/5 - 26/5 | | U54 - 28/5 - 23/6 |

- Ship sunk
- Ship attacked
- S/M sighted
- S/M attacked
- Mines



APPROACH ROUTE D

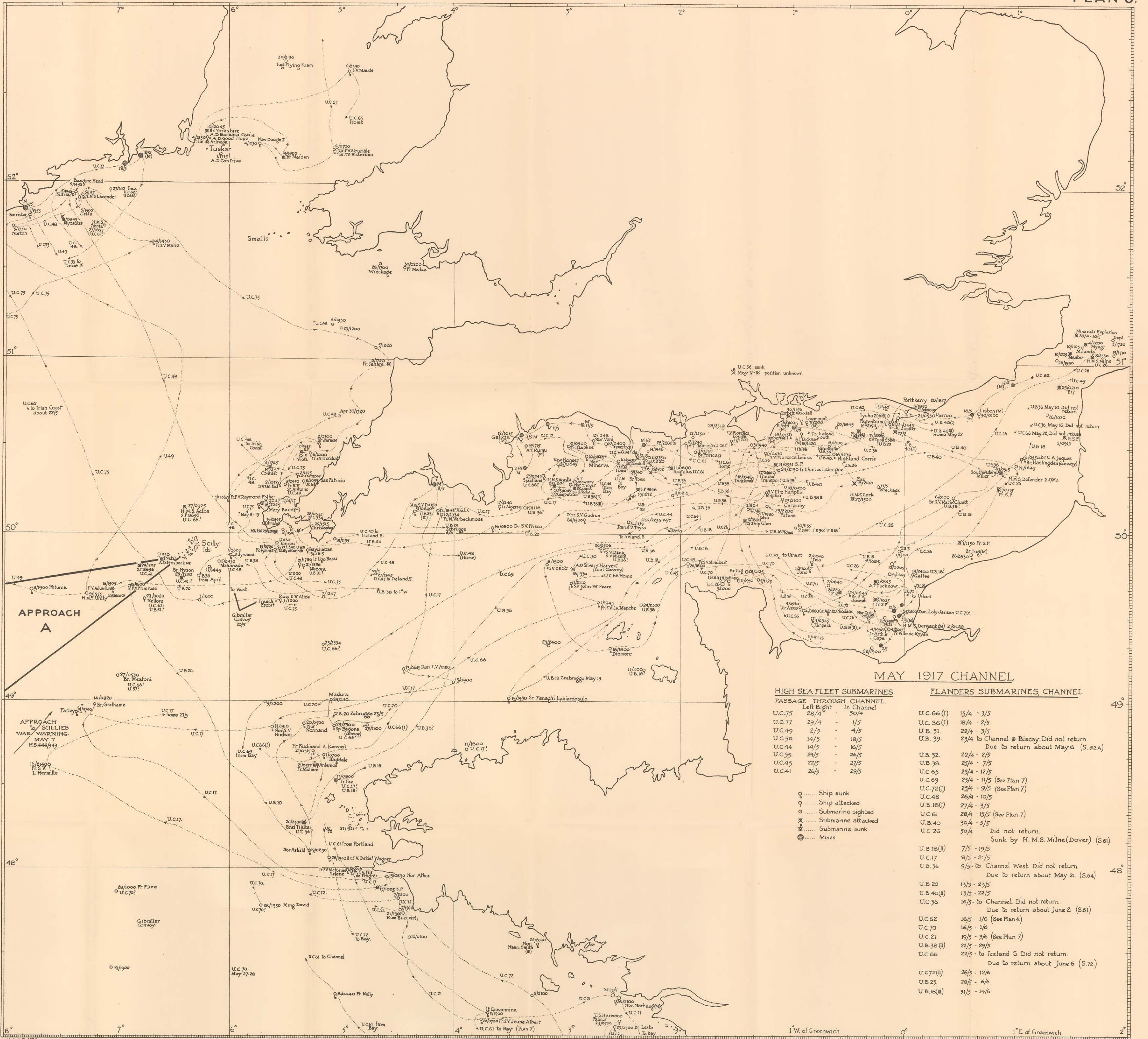
APPROACH ROUTE C



FOR TRACK OF U.C. 65 IN THIS AREA SEE INSET

SUBMARINES MAY 1917 SCOTLAND WEST

- Ship Sunk
- Ship attacked
- S/M sighted
- ⊗ S/M attacked.
- ⊗ S/M sunk
- Mines



MAY 1917 CHANNEL

HIGH SEA FLEET SUBMARINES

PASSAGE THROUGH CHANNEL	
Left	Right
U.C. 75	28/4 - 30/4
U.C. 77	29/4 - 1/5
U.C. 49	2/5 - 4/5
U.C. 50	14/5 - 18/5
U.C. 44	14/5 - 16/5
U.C. 55	24/5 - 26/5
U.C. 45	22/5 - 27/5
U.C. 41	26/5 - 29/5

FLANDERS SUBMARINES CHANNEL

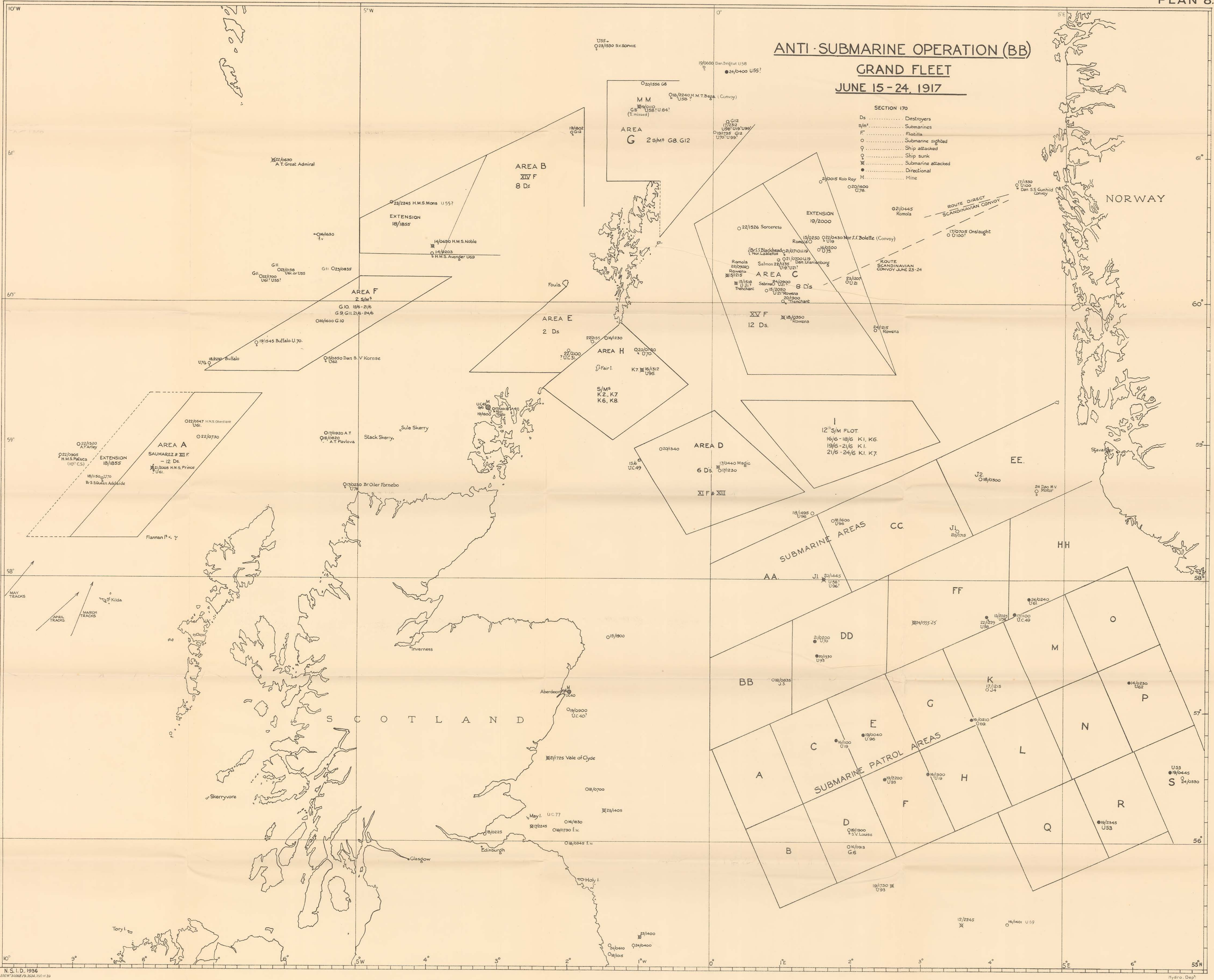
U.C. 66 (I)	15/4 - 3/5
U.C. 36 (I)	18/4 - 2/5
U.B. 31	22/4 - 3/5
U.B. 39	23/4 to Channel & Biscay. Did not return. Due to return about May 6 (S. 92.A)
U.B. 32	22/4 - 2/5
U.B. 38	25/4 - 7/5
U.C. 65	25/4 - 12/5
U.C. 69	25/4 - 11/5 (See Plan 7)
U.C. 72 (I)	25/4 - 9/5 (See Plan 7)
U.C. 48	26/4 - 10/5
U.B. 18 (I)	27/4 - 3/5
U.C. 61	28/4 - 15/5 (See Plan 7)
U.B. 40	30/4 - 5/5
U.C. 26	30/4 Did not return. Sunk by H. M. S. Mine (Dover) (S. 61)
U.B. 18 (II)	7/5 - 19/5
U.C. 17	8/5 - 21/5
U.B. 36	9/5 to Channel West Did not return. Due to return about May 21. (S. 64)
U.B. 20	13/5 - 23/5
U.B. 40 (II)	13/5 - 22/5
U.C. 36	16/5 to Channel. Did not return. Due to return about June 2 (S. 61)
U.C. 62	16/5 - 1/6 (See Plan 4)
U.C. 70	16/5 - 1/6
U.C. 21	19/5 - 3/6 (See Plan 7)
U.B. 38 (II)	22/5 - 29/5
U.C. 66	22/5 to Iceland S. Did not return. Due to return about June 6 (S. 72)
U.C. 72 (II)	26/5 - 12/6
U.B. 23	28/5 - 6/6
U.B. 18 (II)	31/5 - 14/6

- Ship sunk
- Ship attacked
- Submarine sighted
- Submarine attacked
- Submarine sunk
- Mines



ANTI-SUBMARINE OPERATION (BB) GRAND FLEET JUNE 15-24, 1917

- SECTION 170
- Ds Destroyers
 - S/M Submarines
 - F Flotilla
 - O Submarine sighted
 - Q Ship attacked
 - X Ship sunk
 - U Submarine attacked
 - Directional
 - M Mine



JULY 25-28, 1917
MINE NETS LAID BELGIAN COAST
BY DOVER PATROL

For Orders see H.S.1383/22/S.190.

FIELD 47 DEEP MINES 120 Mines
25. 7. 17.
H.M.S. Paris

Meteor 40 Mines
12. 8. 17

40 Mines
31. 8. 17
Meteor

40 Mines
30. 7. 17
Meteor

MINE NETS

Laid 28. 7. 17

Telemachus
Tarpon
Legion
14. 7. 17
160 Mines
Meteor

WEST SCHELDT

Wielingen

Zeebrugge

Ostende

Mine nets from V.A. Dover's report H. S. 1383/31
Minefields from Captain Lockhart Leith's Plan 2

Nieuport

CLIF D'ISLANE

OUTER
RATEL

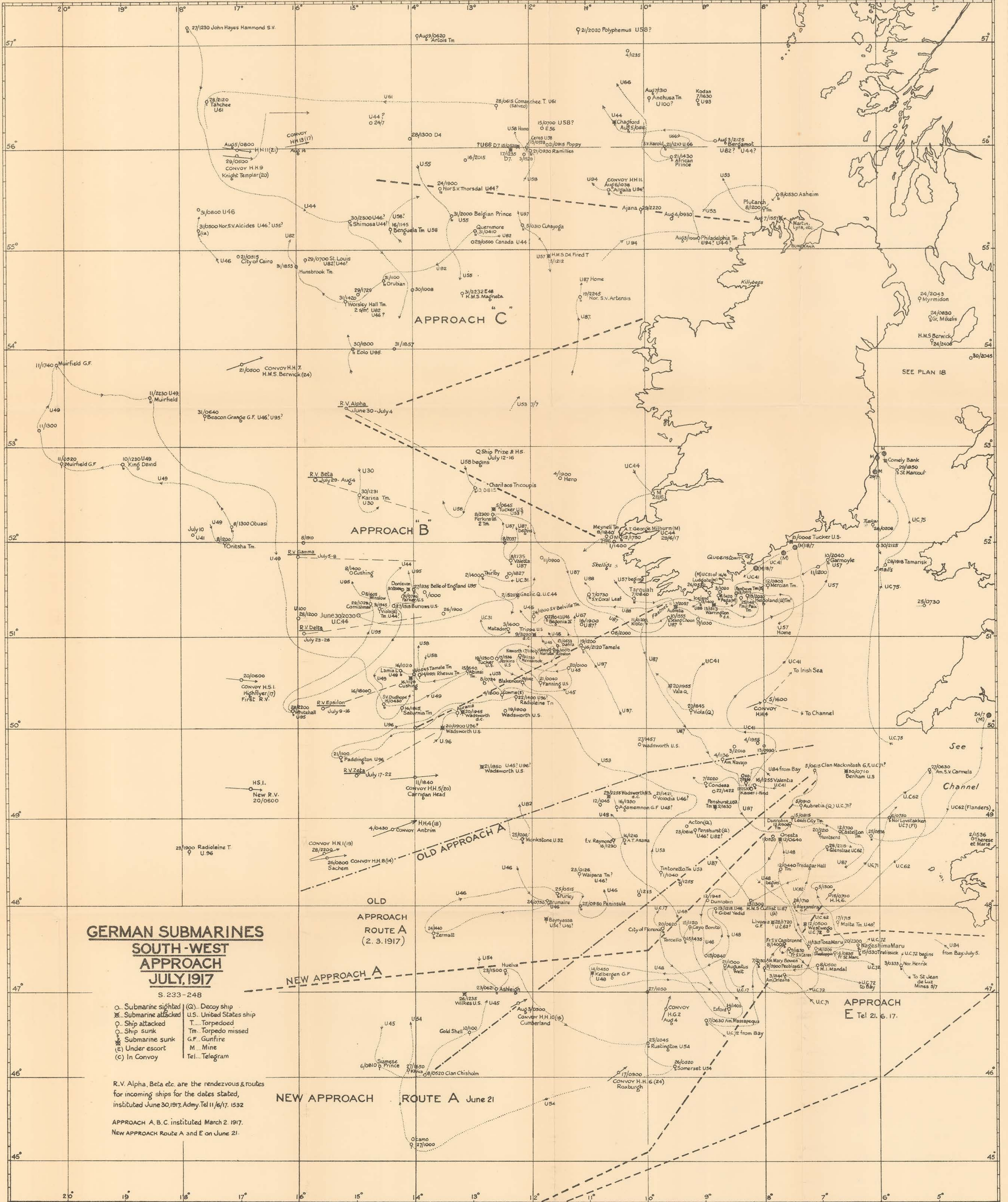
FIELD 103
16. 7. 17.

Osta
Carmania II
Ostrich II

SMAL
BANK

51° 10' N.

Chart 1406



**GERMAN SUBMARINES
SOUTH-WEST
APPROACH
JULY, 1917**

S. 233-248

- Submarine sighted
- ⊗ Submarine attacked
- Ship attacked
- Ship sunk
- ⊗ Submarine sunk
- ⊗ Under escort
- (c) In Convoy
- (Q) Decoy ship
- U.S. United States ship
- T... Torpedoed
- Tm... Torpedo missed
- G.F. Gunfire
- M... Mine
- Tel... Telegram

R.V. Alpha, Beta etc. are the rendezvous & routes for incoming ships for the dates stated, instituted June 30, 1917, Admy. Tel 11/6/17. 1532

APPROACH A, B, C instituted March 2, 1917.
New APPROACH Route A and E on June 21.

NEW APPROACH ROUTE A June 21

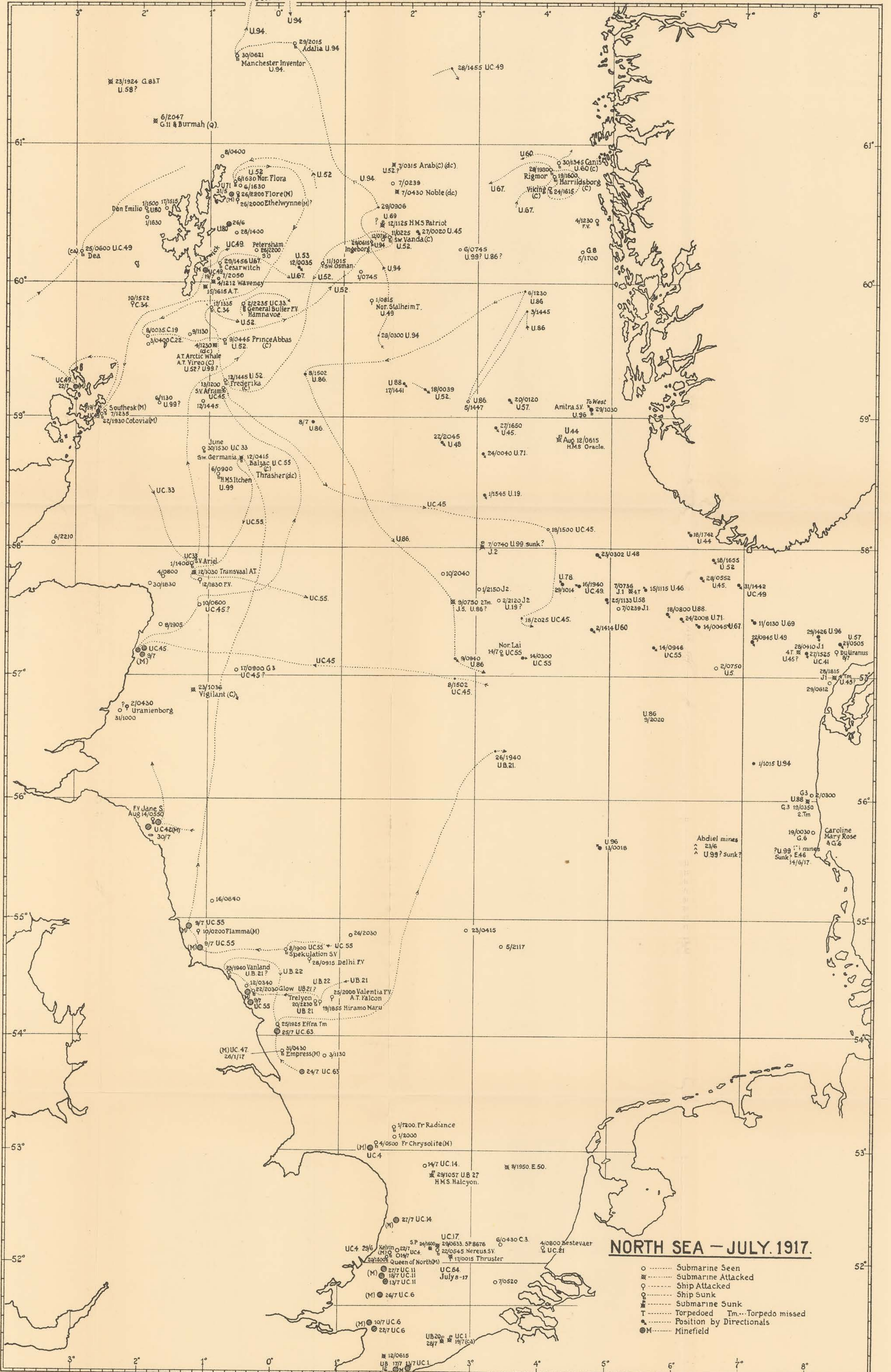
APPROACH E Tel 21. 6. 17.



**GERMAN SUBMARINES
CHANNEL
JULY 1917**

- REFERENCE**
- O Submarine Sighted
 - Ship Attacked
 - ⊙ Ship Sunk
 - ⊗ Submarine Attacked
 - ⊘ Submarine Sunk or Lost
 - ⊙ Q. Ship
 - C. Convoy
 - T. Torpedoed.
 - Tm. Torpedo Missed
 - Gf. Gunfire
 - B. Bomb
 - A.T. Armed Trawler

See PLAN 19



NORTH SEA - JULY 1917.

- Submarine Seen
- ⊗ Submarine Attacked
- ⊙ Ship Attacked
- ⊚ Ship Sunk
- ⊛ Submarine Sunk
- ⊜ Torpedoed Tm... Torpedo missed
- ⊝ Position by Directionals
- ⊞ Minefield

