

Secret

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GERMAN NAVY

(Miscellaneous Vessels)

JULY, 1917

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GERMAN NAVY.

PART III.

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ROGER WELLES,
Captain, U. S. Navy, Director of Naval Intelligence.

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Abbreviations.

Aux.	= Auxiliary.	M. V.	= Mining Vessel.
Desp. V.	= Despatch Vessel.	Moor. V.	= Mooring Vessel.
F. P. V.	= Fishery Protection Vessel	S. V.	= Surveying Vessel.
G. B.	= Gunboat.	Subm. Dépôt	= Submarine Dépôt Ship.
Hosp. Ship	= Hospital Ship.	T. S.	= Training Ship.
M. Lighter	= Mining Lighter.	Transp.	= Transport.

GUNBOATS.

C.

General Remarks.—Provision was made for this vessel in the 1913 and 1914 estimates, and the order for her was reported to have been given to the Imperial Dockyard, Danzig, in December 1913. There is no evidence, however, that she was ever laid down.

Cost.—	£
Hull, machinery, &c.....	73,385
Gun armament.....	25,440
Torpedo armament.....	Nil.
Total.....	£98,825
General Dimensions.—	
Length, L. W. L.....	219 ft. 10 ins.
Breadth, extreme.....	33 " 6 "
Draught, designed load.....	10 " 6 "
Displacement, designed load.....	1,132 tons.

Armament.—

- 4—4.1-in. (10.5 cm.) Q. F. guns.
2—1-pr. (37 mm.).
2 machine guns.

Machinery and Boilers.—

- Main Engines.....
Boilers.....
Propellers.....

Two sets, reciprocating.
Four, Schulz, Navy type.
Two.

Speed, Horse Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 14	1,550	—

Panther and Eber.
(See Plate 100.)

Name.	Designation before Launch.	Programme Year.	Where Built.	Laid Down.	Launched.	First Commissioned.
Panther.....	A.	1900-01	Imperial Dockyard, Danzig.....	16. 7. 00	1. 4. 01	15. 3. 02
Eber.....	B.	1902-03	Vulcan Works, Stettin.....	1. 8. 02	6. 6. 03	15. 9. 03

General Remarks.—The *Eber* was interned at Bahia on 5th September 1914, and her officers and men commissioned the auxiliary cruiser "*Cap Trafalgar*."
Cost.—*Panther*—£89,040; *Eber*—£93,933.
Complement.—130.

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Panther and Eber—Cont.

General Appearance.—*See* Plate.

General Dimensions.—

Length between perpendiculars.....	203 ft. 5 ins.
“ L. W. L.....	210 “ 4 “
Breadth, extreme.....	31 “ 10 “
Draught, designed load.....	10 “ 6 “
Displacement, designed load.....	984 tons.

Hull.—

Material.—Composite. Sheathed, and covered with Muntz metal.

Conning Tower.—Special steel, .3" thick.

Armament.—

Guns.—

2—4.1-in. (10.5 cm.) Q. F. L/40. One on forecastle, one aft.

6—1-pr. (37 mm.) Maxim automatic; two on each side of bridge, and two aft.

2—31-in. (8 mm.) Maxim automatic.

Searchlight.—

1—On top of chart house.

Boats.—*See* Section 1.

Machinery and Boilers.—

Main Engines.—

Two sets, in separate compartments.

Type—Horizontal, triple expansion.

Boilers —

Four, Schulz, Navy type.

Propellers —Two.

Speed, Horse Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 14	1,300	(a) 275

Seeadler and Condor.

(*See* Plate 100.)

Name.	Programme Year.	Where Built.	Launched.	First Com- missioned.
Seeadler.....	—	Imperial Dockyard, Danzig.....	1892	1893
Condor.....	—	Blohm and Voss, Hamburg.....	1892	1893

General Remarks.—These vessels, which were formerly reckoned as light cruisers, were re-classified as gunboats, *Condor* in 1913, *Seeadler* in 1914. Of the other two vessels of the class, the *Geier* was interned at Honolulu on 9th November 1914, and seized by the U. S. on 6th April 1917, and the *Cormoran* was sunk by the Germans at Tsingtau shortly before the capitulation on 7th November 1914.

The *Seeadler* is now (June 1917) employed as Mining Depot Ship.

General Appearance.—*See* Plate.

Seeadler and Condor—cont.

Complement.—162.

General Dimensions, &c.—

Length between perpendiculars.....	249 ft. 4 ins.
“ L.W.L.....	261 “ 2 “
Breadth, extreme.....	34 “ 5 “
Draught, designed load.....	14 “ 6 “
Displacement, designed load.....	1,602 tons.

Hull.—

Material.—Steel, sheathed with wood and coppered.

Constructive Details.—Eight main water-tight compartments. Double-bottom under engine and boiler rooms.

Armament.—

Guns and Ammunition Supply.—

8—4.1-in. (10.5 cm.) Q.F. L/35; two on forecastle, two on poop, and four in sponsons on the broadside, all protected by shields.

5—1-pr. (37 mm.); two on forecastle, one either side of bridge, and one right aft on poop.

2—31-in. (8 mm.) Maxim automatic.

Torpedo Tubes—

2—13.8-in. (35 cm.) above water; one on each side on upper deck amidships.

Searchlight.—

1—On platform above the bridge.

Boats.—*See* Section 1.

Steering Gear.—Steam.

Machinery and Boilers.—

Main Engines.—

Two sets, in separate water-tight compartments divided by an athwartship bulkhead.

Type—Horizontal, triple expansion.

Diameter of cylinders, 16.4 in., 27.5 in., and 43 in.

Length of stroke, 24.6 in.

Boilers.—

Four in number.

Type—Cylindrical, direct tube, three furnaces in each.

Propellers.—Two.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 16	2,800	(a) 305

Endurance.—3,380 miles at 10 knots with a coal expenditure of 20.5 tons per day for all purposes.

MINING VESSELS.

Albatross.

(See Plate 101.)

General Remarks.—1906-07 programme. Built at the Weser Yard, Bremen, launched 13th October 1907 and first commissioned on 19th May 1908. Driven ashore on the island of Gothland by Russian naval forces on 2nd July 1915; subsequently salvaged and interned by Sweden.

Complement.—198.

Cost.—Same as *Nautilus* (see p. 9).

General Appearance.—See Plate.

General Dimensions.—

Length, between perpendiculars.....	295 ft. 0 ins.
Breadth, extreme.....	42 " 8 "
Draught, designed load.....	13 " 2 "
Displacement, designed load.....	2,165 tons.

Armament.—

Guns.—8—15-pr. (8.8 cm.), Q.F. L/35.

Mines.—It is reported about 600 can be carried. They are launched over the stern from the quarter-deck.

Searchlights.—

2—one on each mast.

Machinery and Boilers.—

Engines.—

Two sets.

Type—Vertical, triple expansion.

Boilers.—Eight, Schulz.

Propellers.—Two.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 20	6,500	(a) 443

Nautilus.

(See Plate 101.)

General Remarks.—1905-06 programme. Built at the Weser Yard, Bremen, launched on 18th August 1906 and first commissioned on 19th March 1907. Modernised in 1912-13.

Complement.—198.

MISCELLANEOUS VESSELS.

Nautilus—cont.

Cost.—	£
Hull and machinery.....	107,632
Gun armament.....	24,462
Mining armament.....	31,311
Total.....	£163,405

General Appearance.—See Plate. Two raking masts and funnels; swan bow, topgallant forecastle, superstructure deck extending from bridge nearly right aft, and a deeply overhanging stern.

Accommodation.—The officers' accommodation, and that of part of the crew also, is on the upper deck under the forecastle; the remainder of the crew live forward on the main deck.

General Dimensions, &c.—

Length, between perpendiculars.....	295 ft. 0 ins.
" extreme.....	305 " 2 "
Breadth, extreme.....	42 " 8 "
Draught, designed load.....	13 " 2 "
Displacement, designed load.....	1,945 tons.

Armament.—

Guns.—

8—15-pr. (8.8 cm.), Q. F. L/35, on superstructure deck.

Mines.—About 200 mines are carried. There are two large two-storied store rooms on the lower deck, one forward and one aft, each about 60 ft. long, and extending across the entire width of the ship. 50 mines can be accommodated on each storey.

The main deck aft contains all the mines ready for dropping, stowed on special trollies on rails, which run along the main deck to two ports, about 6 ft. by 3 ft., cut in the stern, through which the mines are dropped some 20 ft. abaft the rudder and screws.

The mines are hoisted in by two cranes, one on each side forward.

It is stated that this vessel is intended particularly for service in coastal waters, and has therefore been given a light draught. In order that she may be employed in winter she has been specially strengthened to resist ice.

Searchlights.—

2—one on each mast.

Machinery and Boilers.—

Engines.—

Two sets.

Type—Vertical, triple expansion.

Boilers.—

Eight, Schulz.

Working pressure, 225 lbs.

Total heating surface, 17,000 sq. ft.

Propellers.—Two.

Speed, Horse-Power and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 20	6,000	(a) 443

Pelikan.

(See Plate 101.)

General Remarks.—Mining ship. Built at the Imperial Dockyard, Wilhelmshaven, launched on 29th July 1890, and completed in 1892. Underwent a large refit in 1908.

Complement.—195.

General Appearance.—See Plate.

General Dimensions, &c.—

Length between perpendiculars	259 ft. 2 ins.
Breadth, extreme	38 " 1 "
Draught, designed load	14 " 9 "
Displacement, designed load	2,320 tons.

Armament.—

Guns and Ammunition Supply.—

4—15-pr. (8.8-cm.) Q. F., L/30.

4—.31-in. (8 mm.) Maxim automatic.

Mines.—Four sets of rails run along main deck to stern, where the mines are dropped clear of the screws and rudder.

Searchlights.—2.

Steering Gear.—Electrical.

Machinery and Boilers.—

Engines.—Two; vertical, triple expansion.

Boilers.—Two double-ended, cylindrical, originally fitted; probably replaced in 1913 by Schulz water tube.

Propellers.—Two.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 15	3,000	(a) 404

M. 1 to M. 60.

(See Plate 102.)

General Remarks.—These boats represent a compromise between a trawler and a small torpedo boat. They have all been built during the war, the first of them having been met at sea in January 1916. They are fitted for both minelaying and minesweeping, but appear to have been intended primarily for the latter purpose. They are also used as patrol craft and for escorting merchant vessels.

When used as minesweepers, these boats work in flotillas of 11 or 12; they are reported as manœuvring well in very close formation. As in the case of minesweeping T. B.'s, each flotilla or division has a destroyer attached as leader.

Complement.—About 40.

Colour.—Light grey.

MISCELLANEOUS VESSELS.

M. 1 to M. 60—cont.

General Appearance.—See Plate. All these boats have a tall funnel and foremast; some of them have a stump mainmast. Those without mainmast have a derrick with samson post amidships.

General Dimensions.—	about 164 ft. 0 ins.
Length	" 20 " 0 "
Breadth	" 9 " 0 "
Draught	

Armament.—

Guns.—

2—22-pr. (8.8 cm.), Q. F., one on forecastle, one in after part of vessel.

2—machine guns, on bridge.

Torpedo Tubes.—

Probably none are fitted.

Mines.—

Rails on either side of the deck for a total of about 70 mines.

Searchlights.—

1—on foremast.

Machinery and Boilers.—

Engines.—

Boilers.—Probably burn coal and oil.

Auxiliary Machinery.—A steam winch is fitted amidships.

Propellers.—Two.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel.
Knots. About 17.....	—	Coal and oil.

DEPÔT AND SALVAGE SHIPS FOR SUBMARINES.

* Vesuv.

General Remarks.—This vessel, supposed to be an improved Vulkan (see p. 12), formed part of the 1912-13 programme, and was reported to be building at Danzig Dockyard in 1914. It is, however, not certain that she was ever laid down. In any case, nothing has been heard of her during the war.

General Dimensions.—	285 ft. 3 ins.
Length, L. W. L.	64 " 0 "
Breadth, extreme	13 " 9 "
Draught, designed load	2,755 tons.
Displacement, designed load	

Engines.—Two steam engines, one in each hull.

Speed.—9 knots.

* Name doubtful.

Vulkan.

(See Plate 102.)

Programme year 1907-8.
Launched 28th September 1907.
First commissioned 4th March 1908.

Cost.—Uncertain, but according to Press, about £97,847.

General Remarks.—This was the first salvage and docking ship for submarines built by any Power. Designed and patented by the German engineer, von Klitzing, and built at Howaldt's Works, Kiel.

Complement.—124.

General Description.—This vessel consists of two parallel hulls, each displacing 900 tons, and each 225 ft. long, separated amidships by a well or space 42 ft. 8 ins. wide. The total breadth is 64 ft. 0 ins., the maximum draught 13 ft. 9 ins. The hulls unite together above water at bow and stern; they are further connected amidships by two transverse semi-circular dokble gantries which rise across the central well, and the legs of which rest on either hull. The gantries are provided with powerful tackles to which a sunken submarine can be shackled, and by means of which it can be hoisted up between the two hulls clear of the water. Hinged bars are provided on the inner side of one hull and are swung across and fixed in sockets on the inner side of the second hull, for the raised submarine to rest on. The lifting power is about 500 tons.

Machinery and Boilers.—

Engines.—Electric motors driving two propeller shafts, the current for which is supplied by two independent turbo-generators, either of which is run alone when the vessel is to steam slowly. All switches and controlling mechanism for the entire machinery are operated from the bridge (situated on a deck built across the tops of the gantries) so that the ship can be controlled directly from there without communication with the engine-room. The turbo-dynamos also supply power for lifting submarines, and are utilised for recharging the accumulators of submarines.

Boilers.—Four Melhorn, water-tube.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 12	1,200	—

FISHERY PROTECTION VESSEL.

Zieten.

(See Plate 103.)

General Remarks.—Iron gunboat, built at the Thames Iron Works, Blackwall; launched on 9th March 1876, and completed at Kiel in the same year. Before the war was used only for fishery protection work in the North Sea.

Complement.—106.

General Dimensions, &c.—

Length, L. W. L. 226 ft. 5 ins.
Breadth, extreme 27 " 10 "
Draught, designed load 11 " 6 "
Displacement, designed load 994 tons.

Constructive Details.—Two rifle-proof conning towers, with umbrella shields, one before foremast and one abaft mainmast.

Armament.—

Guns.—

6—4-pr. (5 cm.) Q. F., L/40.

Torpedo Tubes.—

2—13.8-in. (35 cm.) submerged; one in bow and one in stern.

Searchlights.—

2—One before foremast and one right aft.

Machinery and Boilers.—

Main Engines.—Two horizontal simple engines made by Penn.

Boilers.—Six, cylindrical.

Propellers.—Two.

Speed, Horse-Power, and Fuel.—

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 13	2,350	(a) 138

Part III.
Section 6.

14

GERMAN NAVY—PART III.—SECTION 6, JULY 1917.

**Miscellaneous
Vessels.**

IMPERIAL YACHTS.

Ersatz **Hohenzollern.**

Name.	Designation before Launch.	Programme Year.	Where Building.	Ordered.	Laid Down.	Launched.	Commis- sioned for Trials.	Completed Trials.
—	<i>Ersatz Hohenzollern.</i>	1913-14	Vulcan Works, Stettin.	24. 4. 13	14. 6. 13	*1. 4. 15	—	—

*Approximate date.

General Remarks.—It does not appear (June 1917) that this vessel has been completed.

Cost.—£489,236.

Complement.—455.

General Dimensions, &c.—

Length {extreme	527 ft. 8 ins.
{L. W. L.	450 " 9 "
Breadth, extreme	62 " 4 "
Draught, designed load	19 " 3 "
Displacement, designed load	7, 185 tons.
Freeboard (approximate)	21 ft. 0 ins.

RAIDERS.

Möwe.

(See Plate 104.)

General Remarks.—Auxiliary cruiser, ex-merchantman. Launched, May 1914, at Tecklenborg Yard, Geestemünde, as the fruit and passenger steamer "Pungo."

Complement.—About 200.

General Appearance.—See Plate 104. A second (dummy) funnel can be fitted.

General Dimensions, &c.—

Length between perpendiculars.....	385 ft. 0 ins.
Length of boat deck.....	155 " 0 "
Length of forecastle.....	53 " 0 "
Breadth.....	49 " 0 "
Depth of hold.....	32 " 7 "
Gross register tonnage.....	About 4,500 tons.

Masts.—Two raking pole masts, the height of which can be varied. A crow's nest may be fitted on each mast.

Constructive Details.—Four decks.

Armament.—

Guns.—

- 4—5.9-inch. Two under forecastle, firing through dropping ports. One either side between foremast and bridge, concealed by dropping bulwarks.
- 1—4.1-inch mounted on poop, disguised as hand-steering gear.
- 2—22-pr. (probably) one each side of the after portion of boat deck.
- ?2—machine guns.

Torpedo Tubes.—4—17.7-inch (probably) above water training. Two mounted between break of forecastle and foremast, two between mainmast and break of poop. All concealed by dropping bulwarks.

Mines.—A supply of mines is carried.

Depth Charges.—A number are carried.

Searchlights.—Fitted on collapsible platform abaft bridge.

Machinery and Boilers.—

Main Engines.—Reciprocating, triple expansion.

Cylinders—28-in., 45-in., and 74-in. Stroke—53.2-in.

Boilers.—

Propellers.—One.

Speed, Horse-Power, and Fuel.

Speed (designed).	Horse-Power (designed).	Fuel. (a) Coal. (b) Oil.
Knots. 14	3,200	—

Estimated Coal Consumption.—At 14 knots, 69 tons per day; at 12 knots, 47 tons; at 10 knots, 32 tons; at 8 knots, 20 tons.

Wolf.

General Remarks.—Auxiliary cruiser, ex merchantman.

Complement.—Originally 340, depleted by prize crews.

General Appearance.—Screw steamer. Slightly sloping bow, counter stern. Well decks forward and aft. Two masts, no rake. One moderately thick funnel midway between, and nearly as high as, the masts. Whistle on fore side, exhaust pipe on after side of funnel. Hurricane deck and boat deck amidships, with two bridges and monkey's island.

General Dimensions, &c.—

Length.....	About 420 feet.
Gross register tonnage.....	About 5,000 tons.

Masts.—Two masts, without rake.

Machinery.

No. of
Pro-
pellers.

Speed.

(a) Designed.

(b) Mean on trial.

Miscellaneous
Vessels.

HARBOUR SHIPS.

(Ships removed from the Effective List, not yet definitely appropriated or disposed of, are included.)

Ship.	Former Classification.	Launched.	Displacement.	Stationed at	Present Employment.
Bayern.....	Battleship, 2nd Class.	1878	Tons. 7,250	Baltic	Hulks.—Used as targets in armour experiments.
Oldenburg.....	Battleship, 3rd Class.	1884	5,140	"	
Sachsen.....	Battleship, 2nd Class.	1877	7,250	"	
Mücke.....	Armoured Coast Defence Gun-boats.	1877	1,091	Kiel	Probably converted into repair ships, attached to 40,000-ton floating dock.
Natter.....		1880	1,091	"	
Skorpion.....		1877	1,091	Mürwik	Torpedo range.
Basilisk.....		1878	1,091	One at Wilhelms-haven.	Used for supplying steam for heating purposes to ships in the dockyard.
Biene.....		1876	1,091		
Camäleon.....		1878	1,091		
Crokodill.....		1879	1,091	7 (?) at Danzig.	The number at Danzig is uncertain, as some have been reported sold or utilised as targets.
Hummel.....		1881	1,091		
Salamander.....		1880	1,091		
Viper.....		1876	1,091		
Wespe.....		1876	1,091	Cuxhaven	Hulk.—Used for accommodating persons attending the Mining School. Hulk.—Repair ship for torpedo boats of the Minesweeping Divisions. Hulk.—Mine store.
Baden.....	Battleship, 2nd Class.	1880	7,250		
Rhein.....	Mining Ship	1866	394	"	
Ulan.....	Special Vessel.	1875	370	"	Hulks.—Used for accommodating the crews of submarines.
Acheron (<i>late Moltke</i>)..	Training Ship	1877	2,800	Kiel	
Irene.....	Light Cruiser.	1887	4,223	Wilhelms-haven.	
Sophie.....	Cruiser, 3rd Class.	1881	2,124	Heligoland	
Meteor.....	Torpedo Vessel.	1890	931	Kiel	
Waltraute.....	—	—	—	Eckernförde	
Niobe.....	Sailing frigate.	*1853	1,269	Wilhelms-haven.	Hulk.—For harbour accommodation of Staff of Vice-Admiral Commanding Scouting Forces.
Jagd.....	Cruiser, 3rd Class.	1888	1,233	Eckernförde	Hulk.—For testing torpedoes on range.
König Wilhelm (<i>late Turkish Fatikh</i>).	Battleship, 3rd Class.	1868	9,600	Mürwik	Training Ship for boys. Engines still in place, but never goes to sea.
Charlotte.....	Cruiser, 2nd Class.	1885	3,233	"	Hulk.—Tender to <i>König Wilhelm</i> —overflow ship.
Uranus (<i>ex Kaiser</i>).....	Battleship, 3rd Class.	1874	7,555	"	Hulk.—Used for accommodation of officers and men going through torpedo and wireless courses.
Kronprinz.....	" "	1879	5,707	Kiel-Wik	Hulks.—Machinery schools, stokers' instructional ships, and instructional ships in electro-technical science.
Leipzig.....	Unarmoured Corvette.	1875	3,925	Wilhelms-haven.	
Friedrich der Grosse..	Battleship, 3rd Class.	1874	6,711	Ellerbek	Coal hulk.
Mars.....	Gunnery School Ship.	1877	3,260	Kiel-Wik	Hulk.
Nixe.....	Cruiser, 3rd Class.	1885	1,722	Sonderburg	Accommodation Ship attached to Gunnery School.

* Purchased from England in 1861.

Former Classification.	Launched.	Displace- ment.	Stationed at—	
Cruiser, 1st Class.	1891	Tons. 1,549	—	Hulk.
Torpedo Vessel.	1892	971	Emden	Hulk.—Attached to light cruiser "Arcona."
Cruiser, 1st Class.	1886	2,027	—	
Sloop	1888	1,100	Sonderburg (?).	Hulk.—For targets (Scheibenhulk).
Light cruiser.	1885	2,373	Danzig	Hulk.—Workshop.
" "	1887	4,223	"	Mining Dépôt Ship.
Training Ship.	1879	2,856	Wilhelms- haven.	Hulk.—Offices.

VESSELS OF MINOR IMPORTANCE.

	Appropriation.	Remarks.
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Vessels of Minor Importance—cont.

Miscellaneous
Vessels.

CLASSIFICATION and NAME or DESCRIPTION.	Built.	Displace- ment.	I. H. P.	Appropriation.	Remarks.
DREDGERS AND HOPPER BARGES— cont.					
Dampfkappenprahm No. 1.	1893	Tons. 557	135	Imperial Dockyard, Wil- helmshaven.	Hopper barges.
Dampfkappenprahm No. 2.	1893	557	134	“ “ “ ..	
Dampfkappenprahm No. 3.	1893	557	138	“ “ “ ..	
Dampfkappenprahm No. 4.	1897-8	534	131	“ “ “ ..	
Dampfkappenprahm No. 5.	1897-8	534	139	“ “ “ ..	
FIRE ENGINES (FLOATING).					
Alarm.....	1901	31	108	Imperial Dockyard, Kiel..	
Hilfe.....	1905-6	54	78	Imperial Dockyard, Dan- zig.	
Spritzendampfer.....	1897	39	130*	Imperial Dockyard, Wil- helmshaven.	
GUARD BOATS.					
Schneewittchen.....	1888	70	591	C.-in-C., Baltic Station....	
Sirius.....	1890	51	200	C.-in-C., North Sea Sta- tion.	
Wega.....	1890	51	200	“ “	
MINING LIGHTERS (STEAM).					
C. 1 to C. 9.....	1904-6	—	—	Mining Division, Cuxha- ven.	
F. 1 to F. 4.....	1871-81	—	—	Defences, Friedrichsort...	
G. 1 to G. 4.....	1888-90	—	50-80	Defences, Geestemünde...	
Minendepot.....	1899- 1913	28	60	Mine Depôt, Friedrichsort.	Tender.
Sprengprahm.....	1887	125	450	Inspection of Torpedoes...	For experimental pur- poses.
W. 1 to W. 4.....	1901	—	120	Defences, Wilhelmshaven.	
MISCELLANEOUS VESSELS.					
Bombe.....	1881	21	80	Artillery Depôt, Geeste- münde.	Tender.
Dampfbeiboot Kl. A.....	1892	18	170	Artillery Depôt, Fried- richsort.	“
“ Kl. I.....	1889	5	20	Mining Depôt, Wilhelms- haven.	“
Dampffahre.....	1902	46	50	Imperial Dockyard, Dan- zig.	Ferry boat to Holm.
Eider.....	1888	395	255	Imperial Dockyard, Kiel..	Store ship.
Fortifikation.....	1908	148	250	Fortifications, Geeste- münde.	For transport of troops in mouth of Weser River.

MISCELLANEOUS VESSELS.

Miscellaneous
Vessels.

Vessels of Minor Importance—cont.

CLASSIFICATION and NAME or DESCRIPTION.	Built.	Displace- ment.	I. H. P.	Appropriation.	Remarks.
MISCELLANEOUS VESSELS—cont.					
Friedrichsort.....	1880	66	100	Ammunition Depôt, Die- trichsdorf.	Tender.
Langlütgen.....	1884	15	(motor) 15	Fortifications, Geeste- münde.	Communication Vessel.
Mentor.....	1909-10	88	640	Submarine Service.....	Machinery—2 Diesel mo- tors.
Mosquito.....	1900	17	170	Imperial Dockyard, Kiel..	Launch of Secretary of State of Imperial Navy Office.
Motorboot.....	1911	3	15	Ammunition Depôt, Die- trichsdorf.	Tender.
Motortauherfahrzeug.....	1910	83	32	Imperial Dockyard, Kiel..	For diving purposes.
Mürwik.....	1870 ?	50	70	Torpedo School Ship, Mürwik.	Tender.
†Schillig.....	1878	31	—	Coast District Office V., Wilhelmshaven.	Despatch vessel.
Schwan.....	1911-12	12	100	Imperial Dockyard, Kiel..	Admiral Superintend- ent's launch.
Seestern.....	1893	61	80	Torpedo Workshop, Fried- richsort.	Tender.
Strande.....	1907	76	156	" "	"
MOORING VESSELS.					
†Heppens.....	1877	291	—	Coast District Office V., Wilhelmshaven.	
Mellum.....	1892	363	345	Imperial Dockyard, Kiel..	
Wik.....	1903	364	385	Imperial Dockyard, Kiel..	For lubricating oil.
OILERS.					
Öldampfer K 1.....	1904	466	90	Imperial Dockyard, Kiel..	For oil fuel.
" K 2.....	1906	616	226	" "	For oil fuel.
" W 81.....	1903	214	136	Imperial Dockyard, Wil- helmshaven.	For lubricating oil.
" W 83.....	1906	445	220	" "	For oil fuel.
PILOT VESSELS.					
Jade.....	1903	352	500	Coast District Office V., Wilhelmshaven.	
Rüstringen.....	1911	658	950	" "	
†Wangeroog.....	1906	163	200	" "	
Wilhelmshaven.....	1875	145	—	" "	
SURVEYING LAUNCHES.					
Farewell.....	1887	60	200	Imperial Dockyard, Wil- helmshaven.	Harbour Works.
Helgoland.....	1909	15	120	Works Department, Heli- goland.	

† Sailing Vessels.

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Vessels of Minor Importance—cont.

Miscel-
laneous
Vessels.

CLASSIFICATION and NAME or DESCRIPTION.	Built.	Displace- ment.	I. H. P.	Appropriation.	Remarks.
SURVEYING LAUNCHES—cont.					
Legde.....	1913	Tons 54	80	Imperial Dockyard, Wil- helmshaven.	Harbour Works.
Minseroog.....	1908	118	160	“ “ “	
Peilboot I.....	1912	88	131	North Sea Station.....	Coast Surveys.
“ II.....	1912	89	132	“ “ “	
“ V.....	1912	84	128	“ “ “	
“ VI.....	1902	66	130	Baltic Station.....	
“ VII.....	1903	65	130	“ “	
TUGS.					
Bussard.....	1890	34	60	Imperial Dockyard, Kiel..	
Caurus.....	1901	322	500	Imperial Dockyard, Wil- helmshaven.	
Dampfboot A 1.....	1909	66	100	“ “ “	
“ A 2.....	1909	66	100	“ “ “	
“ A 5.....	1904	22	50	“ “ “	
“ A 6.....	1906	26	75	“ “ “	
“ A 14.....	1910	59	102	“ “ “	
“ A 15.....	1911	51	100	“ “ “	
“ DI 1.....	1902	27	90	Imperial Dockyard, Dan- zig.	
“ DI 2.....	1903	30	100	“ “ “	
“ DI 4.....	1907	43	130	“ “ “	
Dampfboot T 2.....	1904	22	40	Imperial Dockyard, Wil- helmshaven.	
Daunsfeld.....	1907	266	513	“ “ “	
Eisvogel.....	1890	34	60	Imperial Dockyard, Kiel..	
Fleiss.....	1889	96	175	Imperial Dockyard, Wil- helmshaven.	
Flink.....	1905	97	164	“ “ “	
Föhn.....	1890	96	234	Imperial Dockyard, Kiel..	
Helga.....	1913	500	750	Heligoland.	
Hermann.....	1898	57	60	Imperial Dockyard, Kiel..	
Marie.....	1882	39	60	“ “ “	
Motorboot 1—B.H.....	1911	6	20	Imperial Dockyard, Wil- helmshaven.	
Motorboot 2—B.H.....	1912	6	22	“ “ “	
Motorschlepper—M.A. 1....	1914	—	530	“ “ “	
Motorschlepper—M.A. 2....	1914	—	530	“ “ “	
Motorschlepper T 1.....	1909	25	90	“ “ “	

LANEOUS VESSELS.

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Part III.
Section 6.

Minor Importance—cont.

Miscel-
laneous
Vessels.

I. H. P.	Appropriation.	Remarks.
300	Imperial Dockyard, Dan- zig.	Paddle steamer.
84	Imperial Dockyard, Kiel.	
100	" " "	
200	" " "	
250	Imperial Dockyard, Wil- helmshaven.	Paddle steamer.
79	Imperial Dockyard, Kiel.	For towing targets.
200	Works Department, Heli- goland.	
200	" " "	
500	Naval Gunnery School, Sonderburg.	Also water tank vessel.
257	Imperial Dockyard, Wil- helmshaven.	
556	" " "	
560	Imperial Dockyard, Dan- zig.	
60	Imperial Dockyard, Kiel.	
270	Imperial Dockyard, Kiel.	
600	Imperial Dockyard, Wil- helmshaven.	
1,250	" " "	
1,000	Imperial Dockyard, Kiel.	
417	" " "	
600	Imperial Dockyard, Wil- helmshaven.	
245	Imperial Dockyard, Dan- zig.	Drinking water.
240	Imperial Dockyard, Kiel.	" "
57	" " "	" "
86	" " "	" "
226	" " "	" "
55	" " "	" "
60	Imperial Dockyard, Wil- helmshaven.	" "
180	" " "	" "
180	" " "	" "
600	" " "	" "
(Tugs.)		

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OF DESCRIPTION.		ment.	
YACHTS (SAILING).			
		Tons.	
Asta.....	1894	51	—
Carlota.....	1906	16	—
Comet.....	1887	155	—
Hertha.....	1895	22	—
Jutta.....	1900	16	—
Orion.....	1896	165	—
Thalatta.....	1888	—	—
YACHTS (STEAM).			
Ellerbek.....	1885	24	100
Hulda.....	1889	14	180
Radaune.....	1886	24	120
Schneewittchen.....	(See above under Guard Boats)		

ARMED MERCHANT CRUISERS AND OTHER AUXILIARIES.

D.A.P.=German-American Petroleum Co., Hamburg.

D.O.A.=German East Africa Line.

H.S.A.=Hamburg South America Line.

K.H.=A. Kirsten, Hamburg.

N.=Neptune Line, Bremen.

H.A.=Hamburg American Line.

H.B.A.=Hamburg-Bremen Africa Line.

Kos.=Kosmos Line.

N.D.L.=North German Lloyd.

S. & B.=Sartori & Berger.

Ship.	Line.	Built.	Gross Tonnage.	Speed.	Dimensions.		Remarks. (June 1917.)
					Length.	Breadth.	
				Knots.	Feet.	Feet.	
Alster.....	K.H.	1914	1,500	—	354.6	48.1	In home waters.
Ammon.....	Kos.	1914	7,000	—	—	—	Depôt ship for mine-sweepers.
Answald.....	H.B.A.	1909	5,401	11	419.6	54.5	Seaplane carrier.
Anvers.....	ex Norwegian	1883	860	—	215.0	31.7	Depôt ship at Borkum.
*Berlin.....	N.D.L.	1908	17,324	18	590.2	69.7	Interned at Trondhjem. 6—4.1-in., 6 m., 2 mine ports in stern.
*City of Bradford.....	ex British	1903	1,349	13½	256.5	34.5	Repair ship for seaplanes.
Cordoba.....	H.S.A.	1895	4,889	10	376.5	46.3	In home waters.
Dania.....	H.A.	1904	3,898	11½	355.3	44.0	" "
Erlangen.....	N.D.L.	1902	5,285	12	378.8	47.5	" "
Eskimo.....	ex British	1910	3,326	17	331.2	45.0	" "
Fürst Bülow.....	H.A.	1911	7,614	11½	468.8	58.2	" "
Gauss.....	N.	1882	442	—	147.6	22.5	Accommodation ship at Constantinople.
General.....	D.O.A.	1910	8,063	15	449.1	54.3	In home waters.
*Glennearn.....	ex British	1914	4,828	9½	390.0	50.5	" "
Graf Zeppelin.....	—	—	—	—	—	—	" "
Hessen.....	—	—	—	—	—	—	" "
*Indianola.....	ex British	1912	4,566	10½	390.0	52.5	Seaplane carrier.
*Inkula.....	ex British	1904	5,137	12	401.0	52.1	Depôt ship for mine-sweepers, Swinemünde. 4 or 6—15-pr.
Kigoma.....	D.O.A.	1914	8,100	15½	449.3	55.3	In home waters.
König Friedrich August...	H.A.	1912	9,462	15½	475.7	55.3	" "
Minos.....	N.	1913	718	—	185.9	28.3	Fider barrage.
Möwe, ex Pungo.....	—	1914	4,500	14½	385.0	49.0	See "Raiders," p. 16.
Möwe.....	Argo	1912	1,251	12	241.4	36.0	Jade barrage, 2—22-pr. A.A.
Niederwald.....	H.A.	1904	3,490	12	354.8	45.2	In home waters.
Pawnee.....	D.A.P.	1913	4,972	—	380.1	52.8	" "
Phoenix.....	Argo	1913	1,166	—	236.0	32.5	Mine store at Wilhelmshaven.
Prinz Sigismund.....	S. & B.	1899	697	15½	205.4	28.6	Kiel harbour barrage.
Rio Negro.....	H.S.A.	1905	4,556	12	361.2	46.7	In home waters.
Rugia.....	H.A.	1905	6,598	13	409.4	52.7	Submarine depôt ship at Emden.
Santa Elena.....	H.S.A.	1907	7,415	12	430.9	54.8	Seaplane carrier.
Seeadler.....	ex British	1888	1,571	11	245.0	39.0	See "Raiders," p. 17.
Silvana.....	H.A.	1897	804	14	205.6	29.5	Depôt ship for armed trawlers, Wilhelmshaven.
Steigerwald.....	H.A.	1911	4,836	13½	354.0	48.8	In home waters.
Wolf.....	—	—	About 5,000	—	About 420	—	See "Raiders," p. 16.
*Yorck.....	N.D.L.	1906	8,909	14½	463.5	57.4	Sheltering at Valparaiso.

* See silhouette, Plate 108.

MISCELLANEOUS VESSELS.

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Part III.
Section 6.

Miscellaneous
Vessels.

TRANSPORTS.

This list includes all vessels in home waters (in June 1917) which have been employed as transports or have been reported to be specially equipped for that purpose. It is not a complete list of the ships suitable and available.

It is not believed that any of these vessels have been armed, with the exception of those whose names appear also in the list of Armed Merchant Cruisers and Other Auxiliaries (p. 27), but arrangements have probably been made for arming others rapidly if required.

D. A. = German-Australia Line.
H. A. = Hamburg-America Line.
Kos. Kosmos Line.

D. O. A. = German East Africa Line.
H. S. A. = Hamburg-South America Line.
N. D. L. = North German Lloyd.

Name of ship.	Line.	Built.	Tonnage.		Speed.	Reported Appropriation and Remarks.
			Gross.	Net.		
					Knots.	
					—	Heavy Siege Artillery.
Ammon.....	Kos.	1914	7,000	—	—	" " "
Artemisia.....	H. A.	1901	5,739	3,676	12½	" " "
Badenia.....	H. A.	1902	6,930	4,309	11	Siege Artillery.
Batavia.....	H. A.	1899	11,464	7,300	—	Heavy Siege Artillery.
Bermuda.....	H. A.	1899	7,038	4,468	11½	Field Artillery.
*Bremen.....	H. A.	1897	11,540	7,078	1	Heavy Siege Artillery.
*Bürgermeister.....	N. D. L.	1897	11,540	7,078	13	Cavalry and Engineers.
*Cap Finisterre.....	D. O. A.	1902	5,945	3,660	17	Field Artillery.
Cassel.....	H. S. A.	1911	14,503	8,749	12½	Infantry.
Chemnitz.....	N. D. L.	1901	7,642	4,623	12½	Army Service Corps.
Duisburg.....	N. D. L.	1901	7,542	4,784	12	Infantry.
Frankfurt.....	D. A.	1900	4,496	2,854	12½	Cavalry and Engineers.
Giessen.....	N. D. L.	1899	7,431	4,739	12	Field Artillery.
*Graf Waldersee.....	N. D. L.	1907	6,964	4,376	13	Siege Artillery.
Greiffenfels.....	H. A.	1898	13,193	8,375	11½	" "
Habsburg.....	H. A.	1914	5,852	3,661	13	Carried drafts of 1,500 men in peace time.
König Friedrich August.....	Hansa	1906	6,437	4,076	15½	Carried drafts of 1,700 men in peace time.
*Königin Luise.....	H. A.	1912	9,462	5,590	15	Cavalry and engineers.
*Patricia.....	H. A.	1896	10,785	6,565	13	Infantry.
*Pretoria.....	N. D. L.	1899	14,466	9,072	13	Army Service Corps.
Prinz Ludwig.....	H. A.	1897	13,234	8,415	15½	Field Artillery.
*Prinzessin.....	H. A.	1894	9,687	5,688	14	Cavalry and Engineers.
Schwaben.....	N. D. L.	1905	6,387	3,697	11½	Army Service Corps.
Syria.....	D. O. A.	1906	5,098	3,225	11	Field Artillery.
*Victoria Luise.....	N. D. L.	1898	3,597	2,240	18	Cavalry and Engineers.
Worms.....	H. A.	1900	16,703	8,127	12	Army Service Corps.
Ypiranga.....	H. A.	1907	4,428	2,778	13½	Cavalry and Engineers.
	D. A.	1908	8,103	4,907	—	

* For silhouette, see Plate 108.

D 3

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Miscellaneous
Vessels.

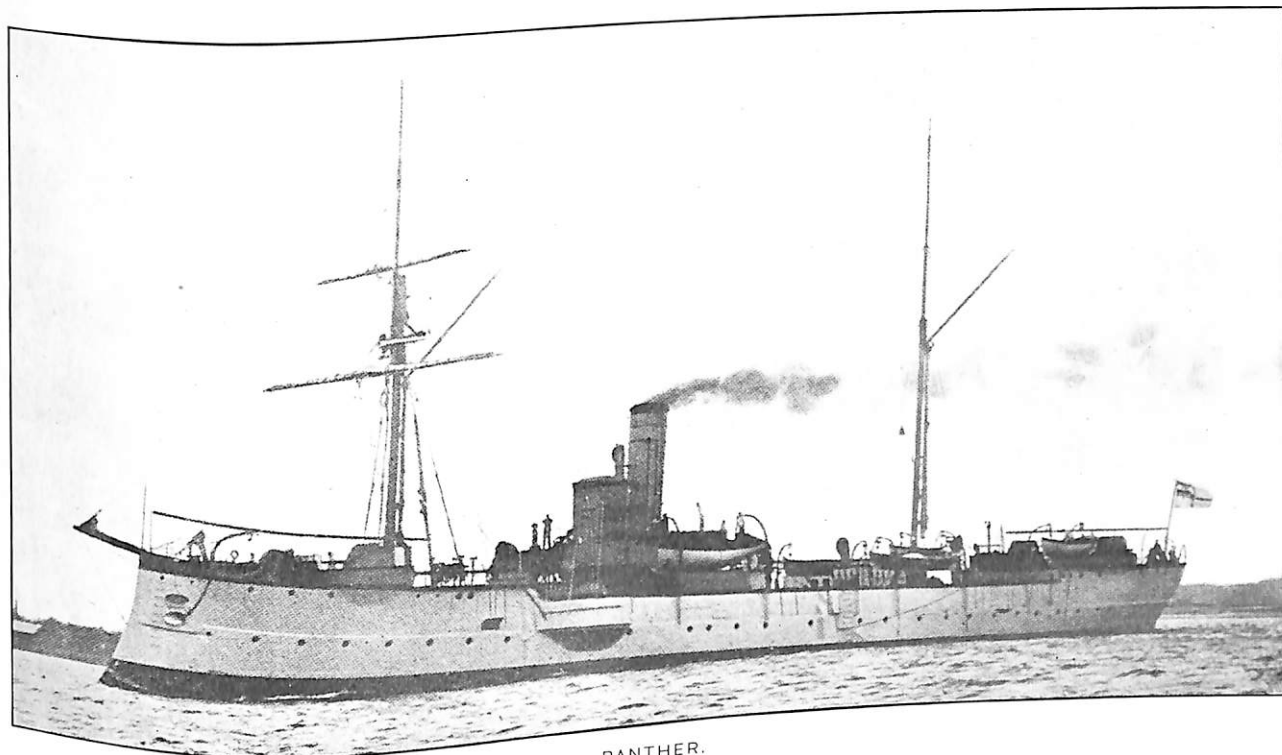
COLLIERS.

Merchant vessels known to have been employed as colliers for the German High Sea Fleet.
Bl=B. Blumenfeld, Hamburg.
Kohl=Kohlenhandels-gesellschaft, Flensburg.
Sti=Hugo Stinnes, Mulheim a. Ruhr.

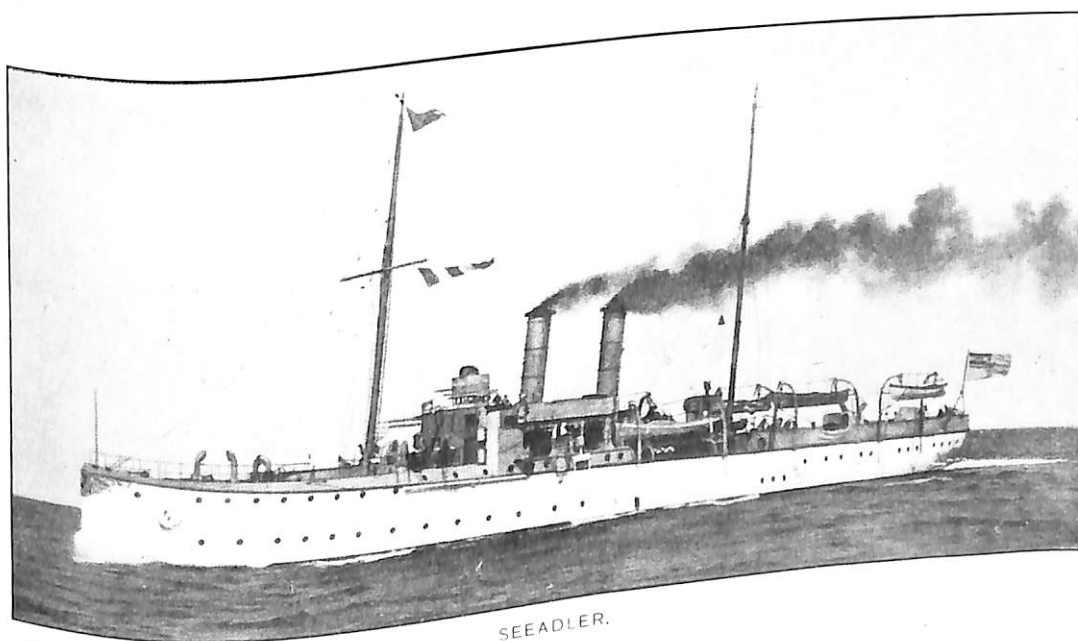
Name of Ship.	Line.	Built.	Gross Tonnage.	Net Tonnage.	Speed.
Adeline Hugo Stinnes III.....	Sti	1909	2,709	1,623	Knots. 10.5
Clara Blumenfeld.....	Bl	1908	2,331	1,224	12
Fritz Hugo Stinnes V.....	Sti	1910	1,398	809	10.5
Glückauf.....	Kohl	1909	2,204	1,213	—
Grete Hugo Stinnes VIII.....	Sti	1911	1,500	850	10
Helene Blumenfeld (Naval Collier No. 8).....	Bl	1905	2,114	967	12
Hilde Hugo Stinnes X.....	Sti	1911	1,500	880	10

Plate 100.
C. B. 1182.
Part III.
July, 1917.

GUNBOATS.



PANTHER.



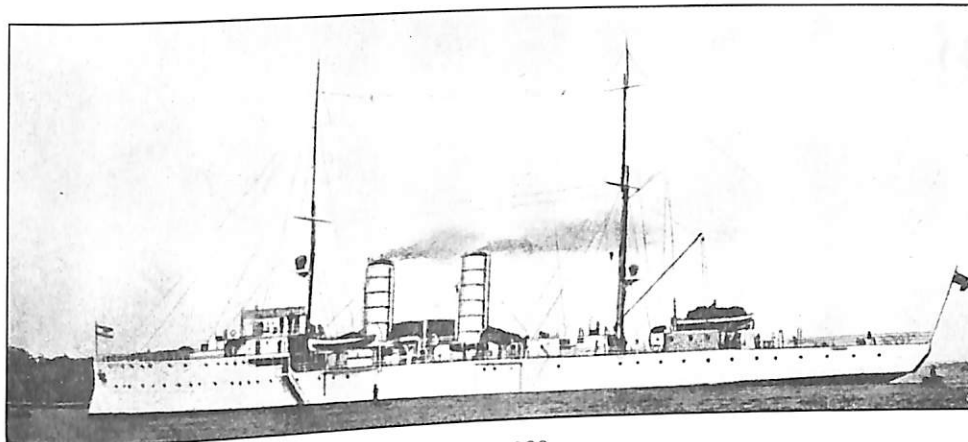
SEEADLER.

26347-17 (No. 1)

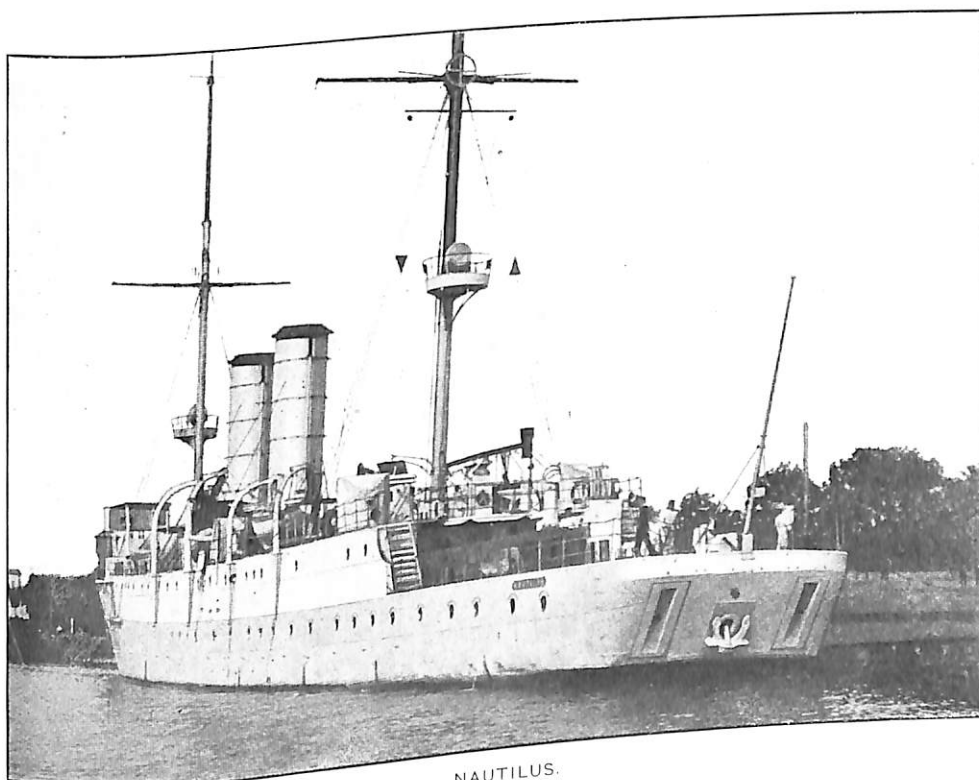
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Authority E.O. 10501

Plate 101.
C. B. 1182.
Part III.
July, 1917.

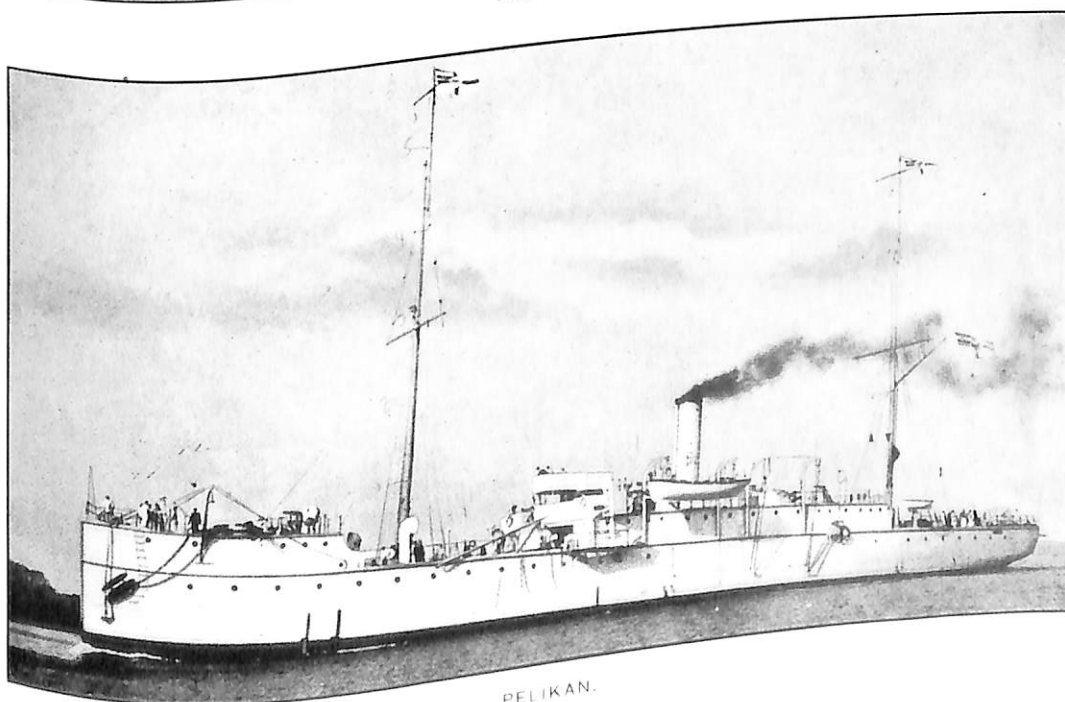
MINING VESSELS.



ALBATROSS.



NAUTILUS.



PELIKAN.

26347 17 (No. 2)

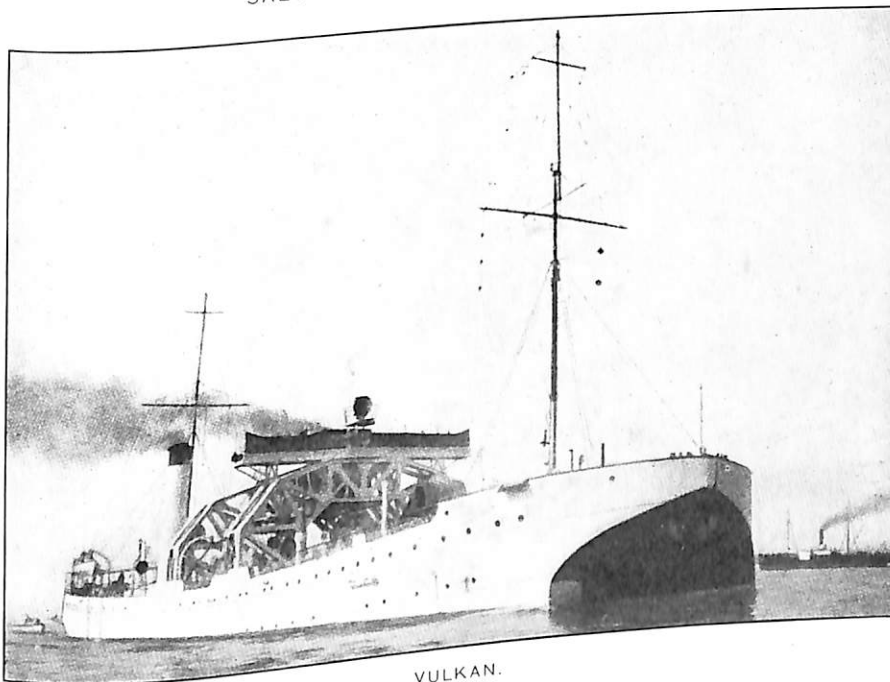
DECLASSIFIED
Authority E.O. 10501

MINING VESSELS.

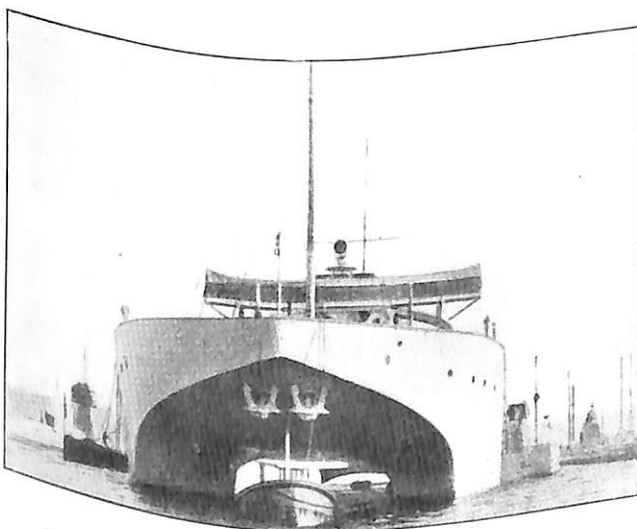


M. 1 TO M. 60.

SALVAGE SHIP FOR SUBMARINES.

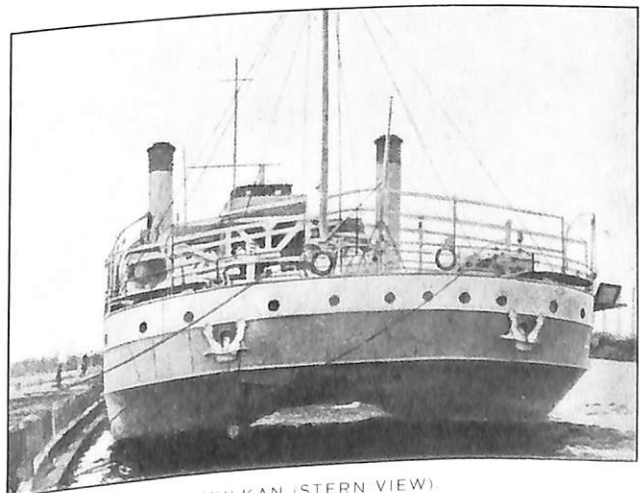


VULKAN.



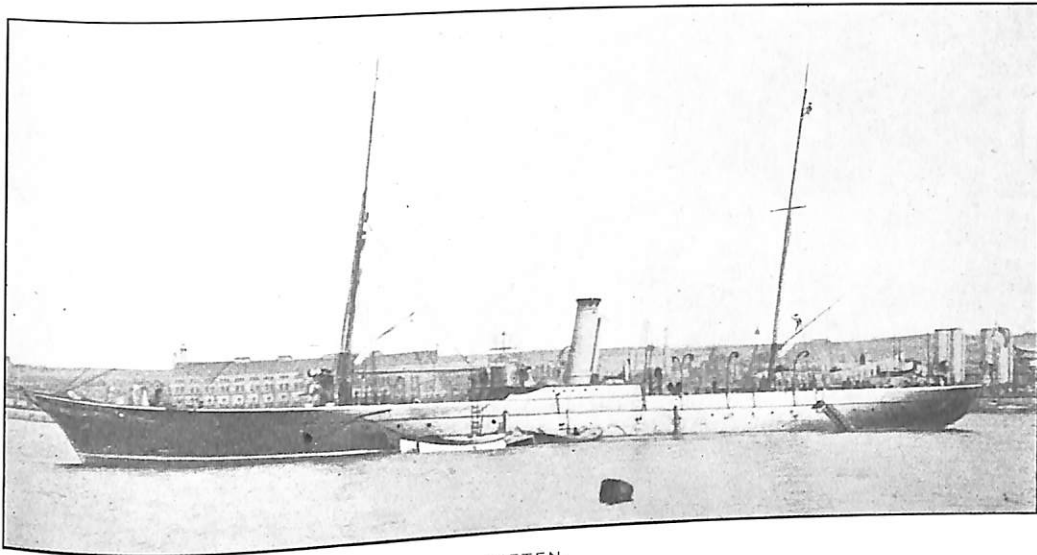
VULKAN (BOW VIEW).

26347-17 (No. 3)



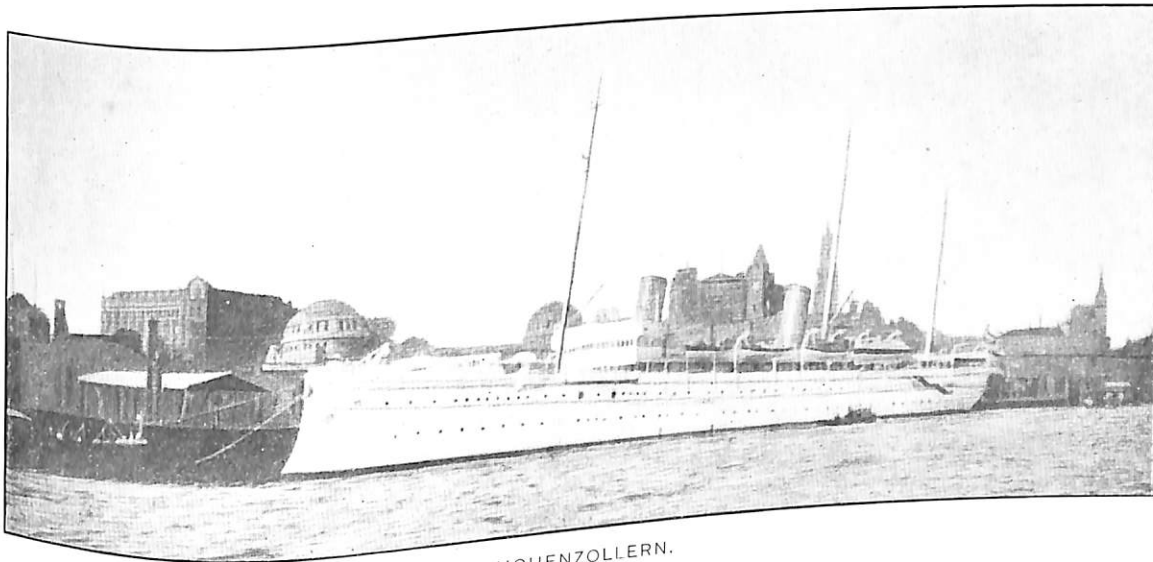
VULKAN (STERN VIEW).

FISHERY PROTECTION VESSEL.



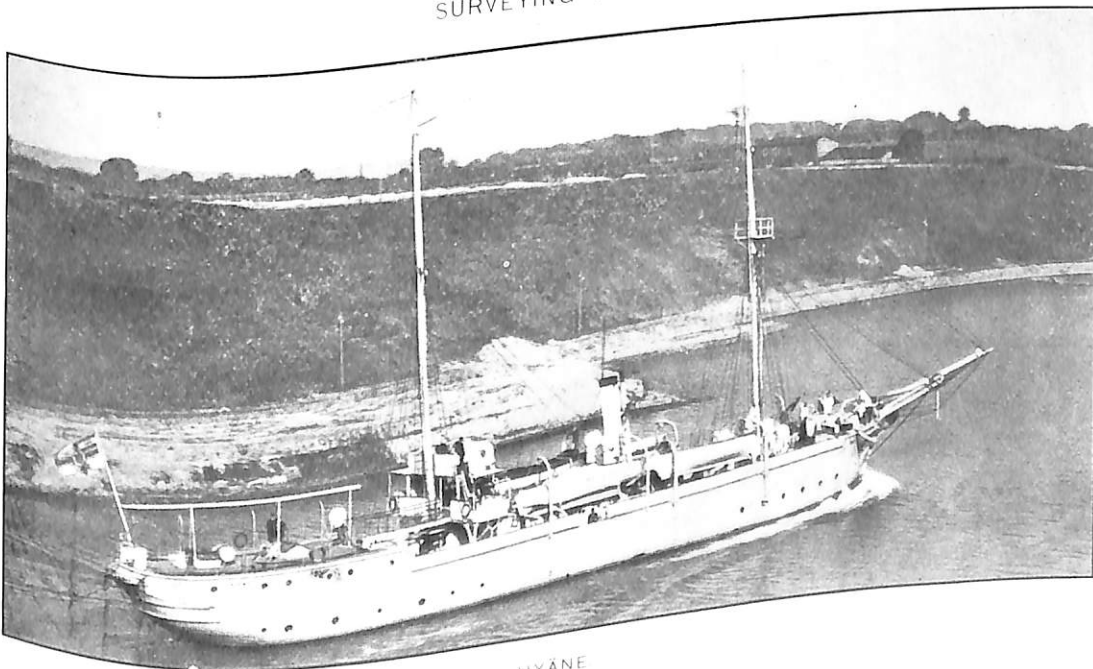
ZIETEN.

IMPERIAL YACHT.



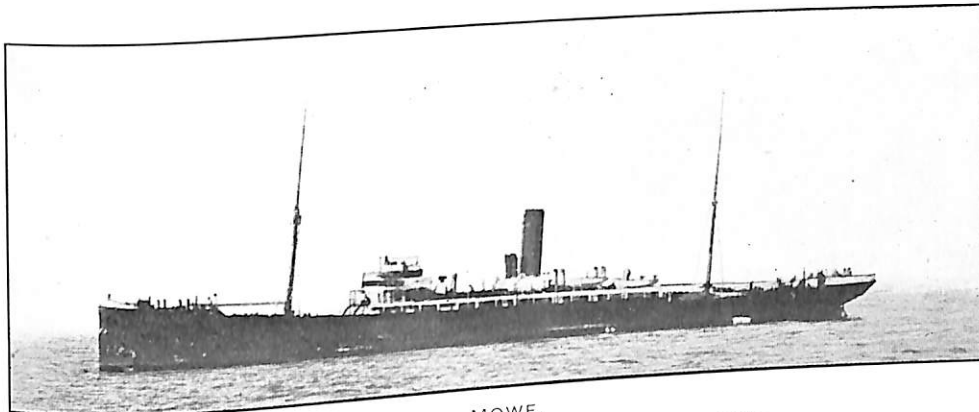
HOHENZOLLERN.

SURVEYING VESSEL.



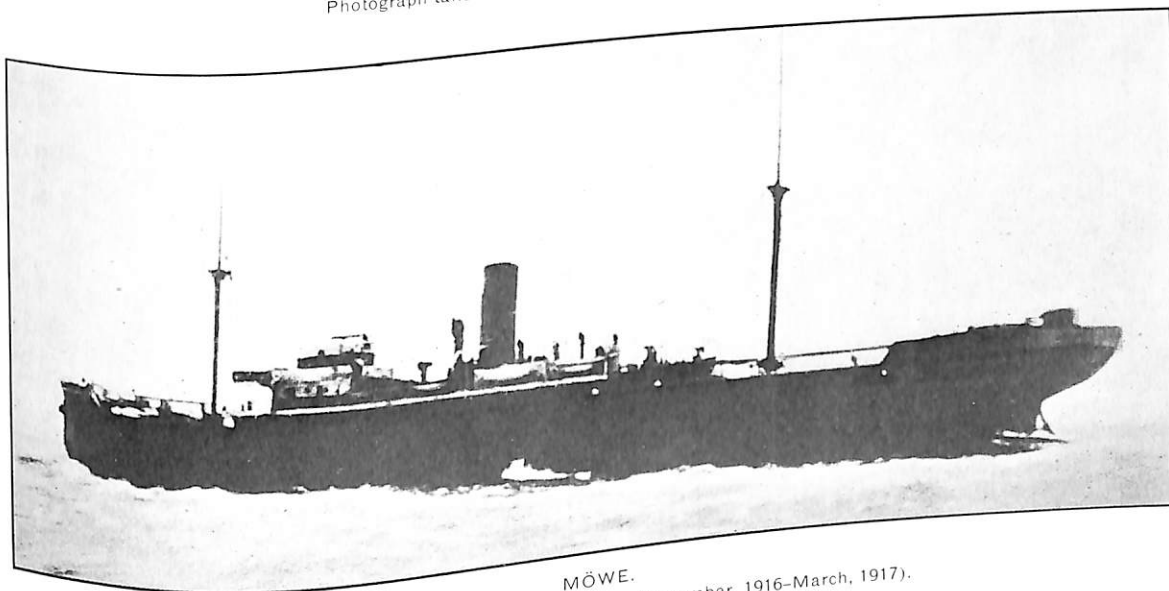
HYÄNE

RAIDERS.



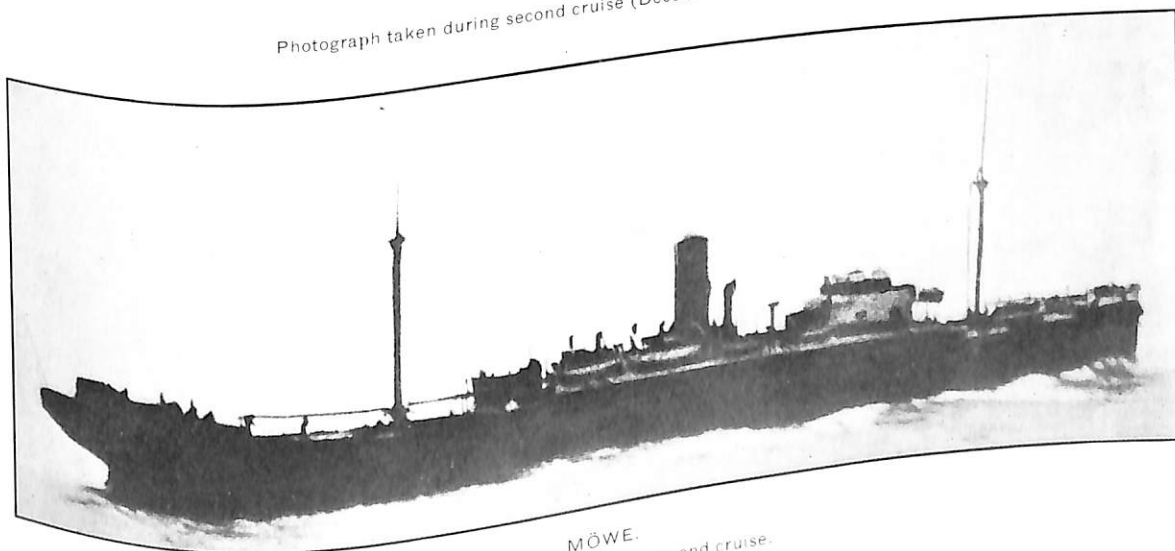
MÖWE.

Photograph taken during first cruise (January-March, 1916).



MÖWE.

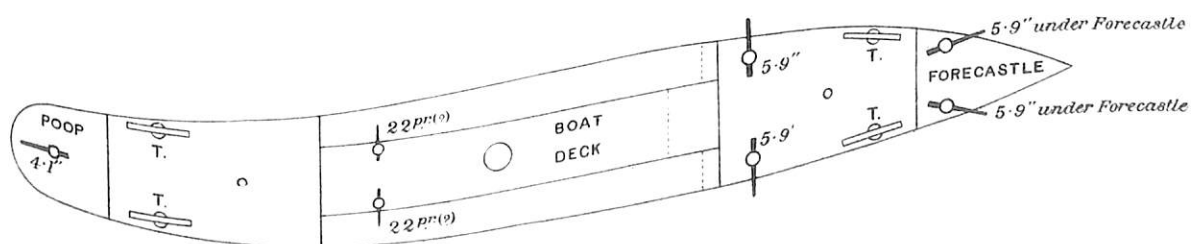
Photograph taken during second cruise (December, 1916-March, 1917).



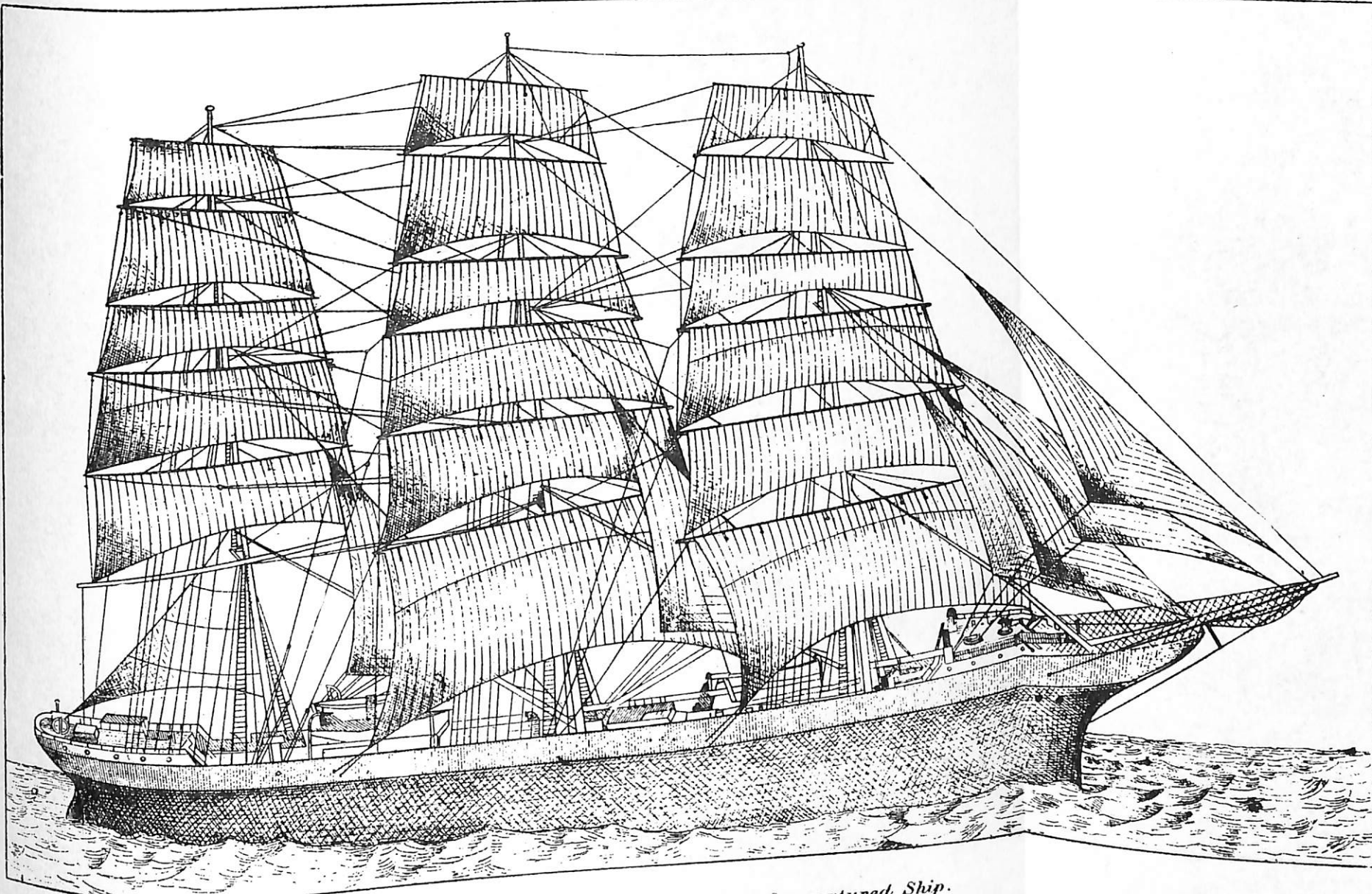
MÖWE.

Photograph taken during second cruise.

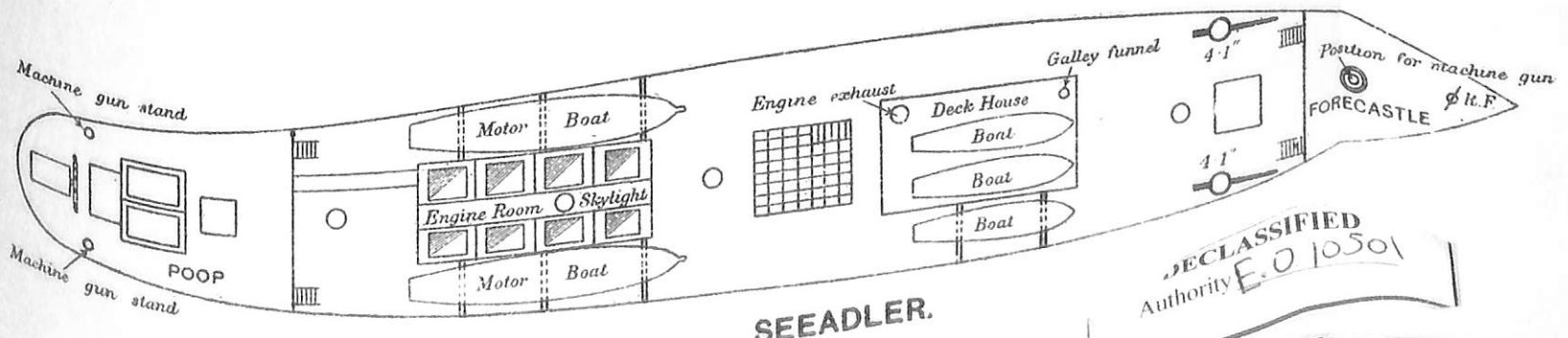
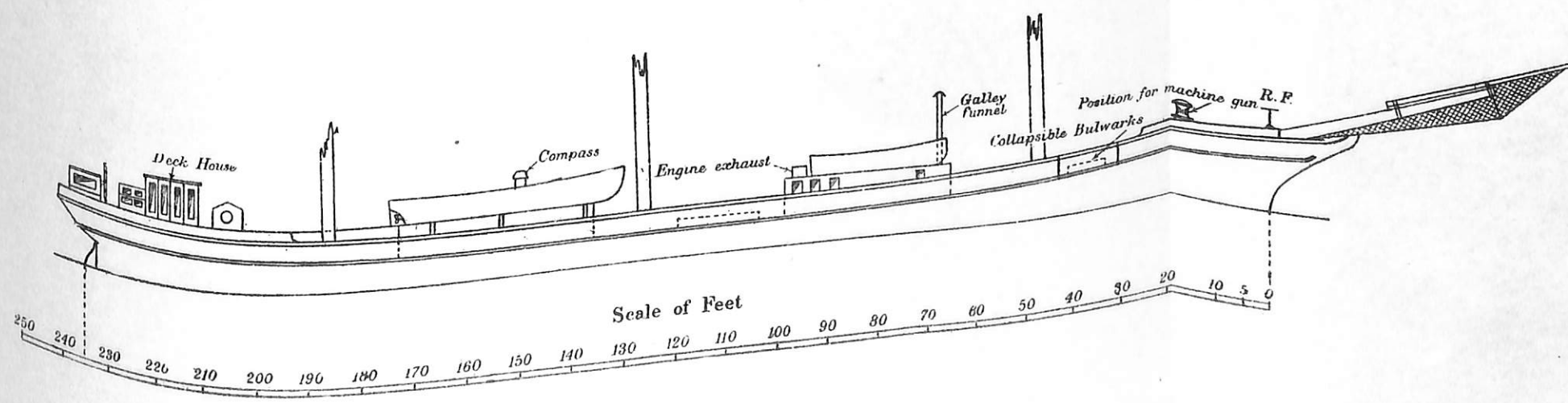
PLAN.



RAIDER.



Rough Sketch made by a Master of a captured Ship.

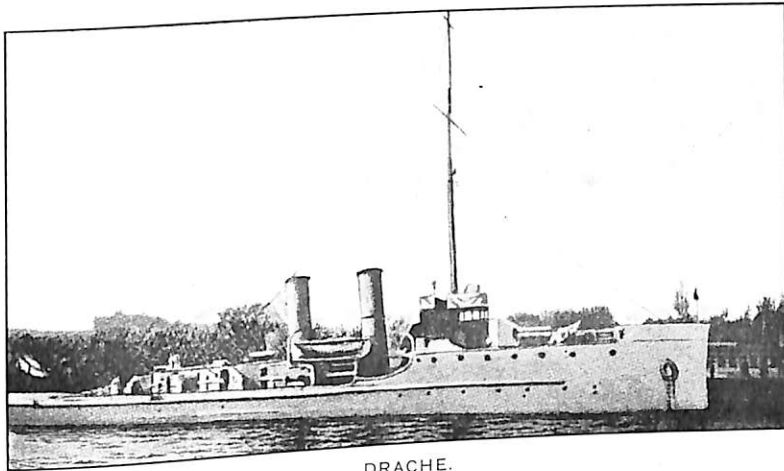


SEEADLER.

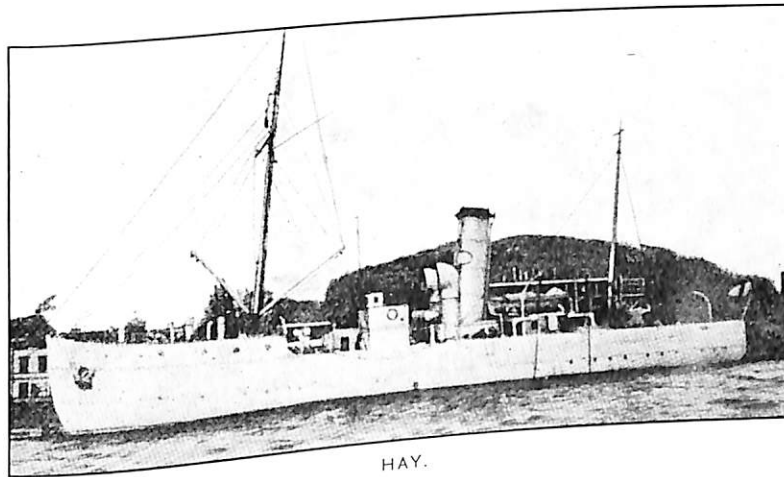
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Ordinary Survey, July 1917

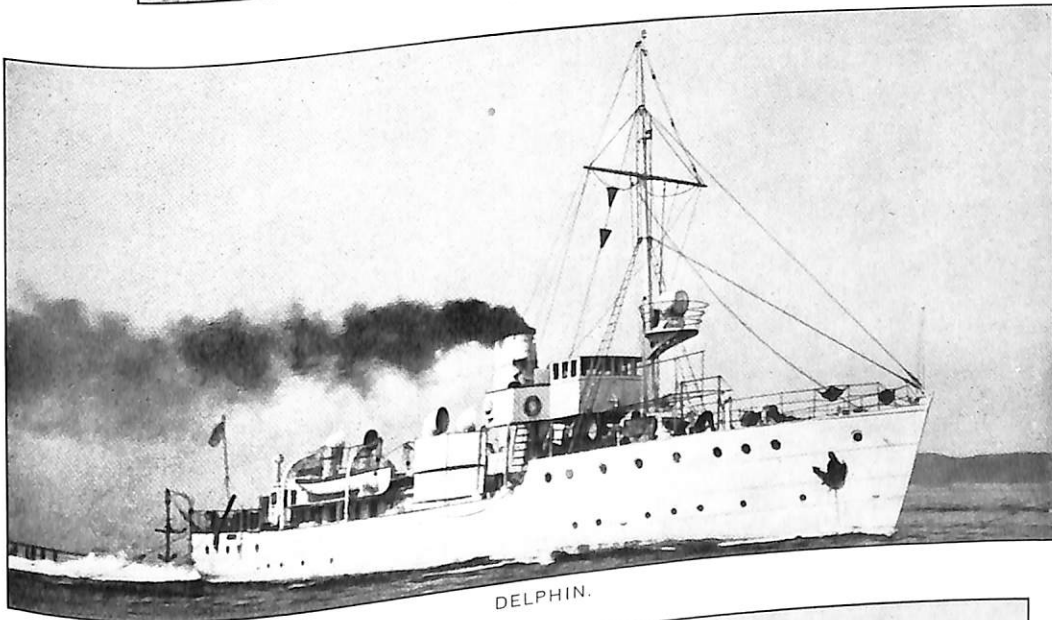
TENDERS TO GUNNERY SCHOOL.



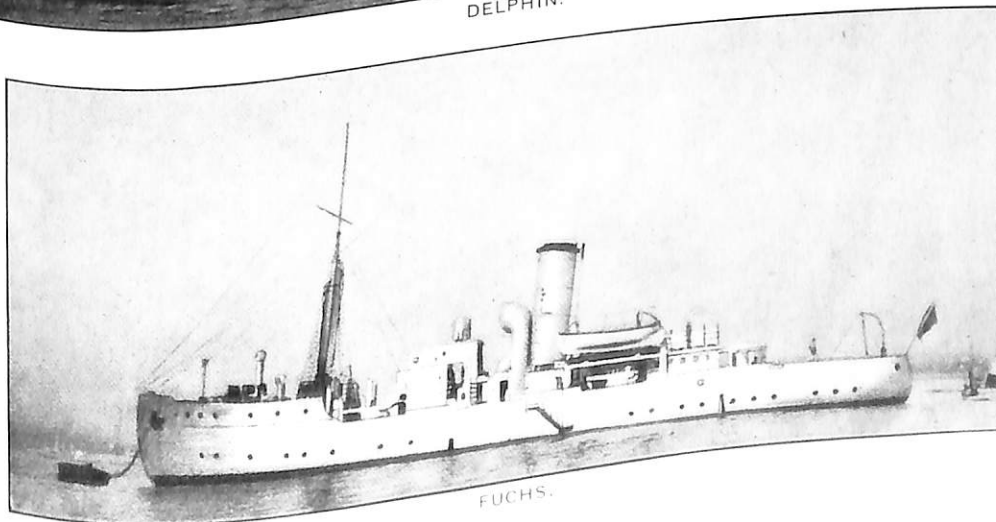
DRACHE.



HAY.



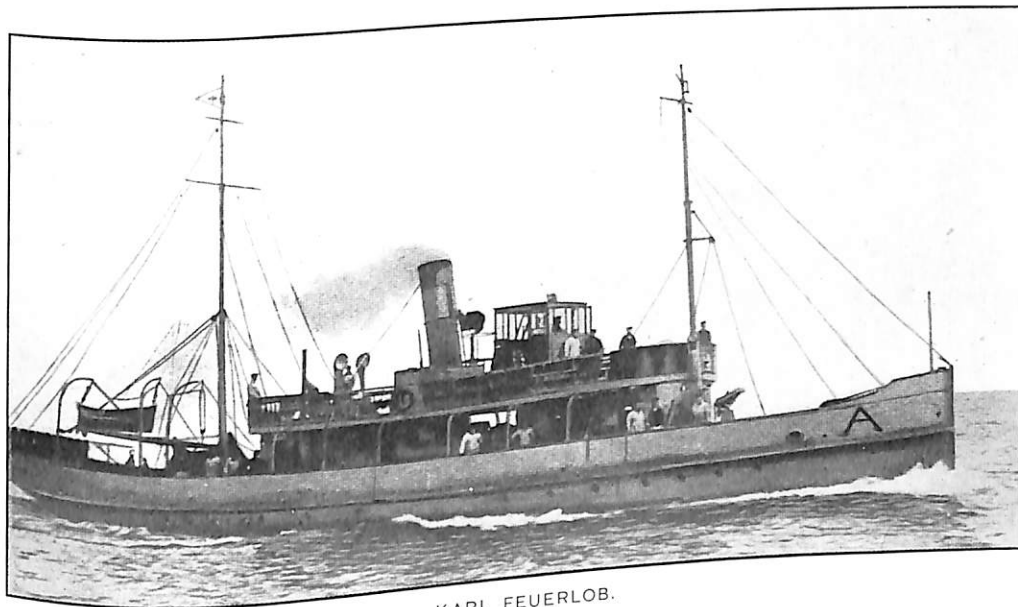
DELPHIN.



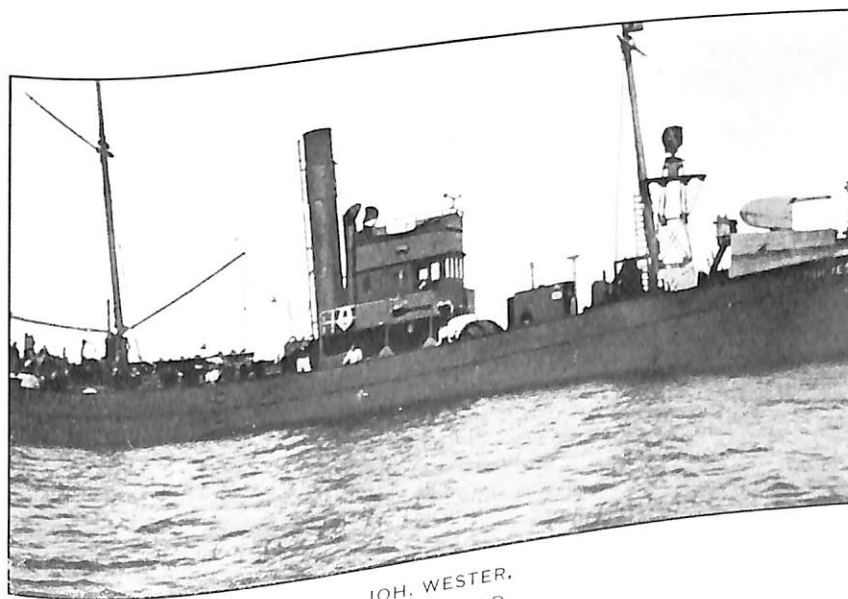
FUCHS.

Plate 107.
C. B. 1182.
Part III.
July, 1917.

ARMED TRAWLERS.



KARL FEUERLOB.



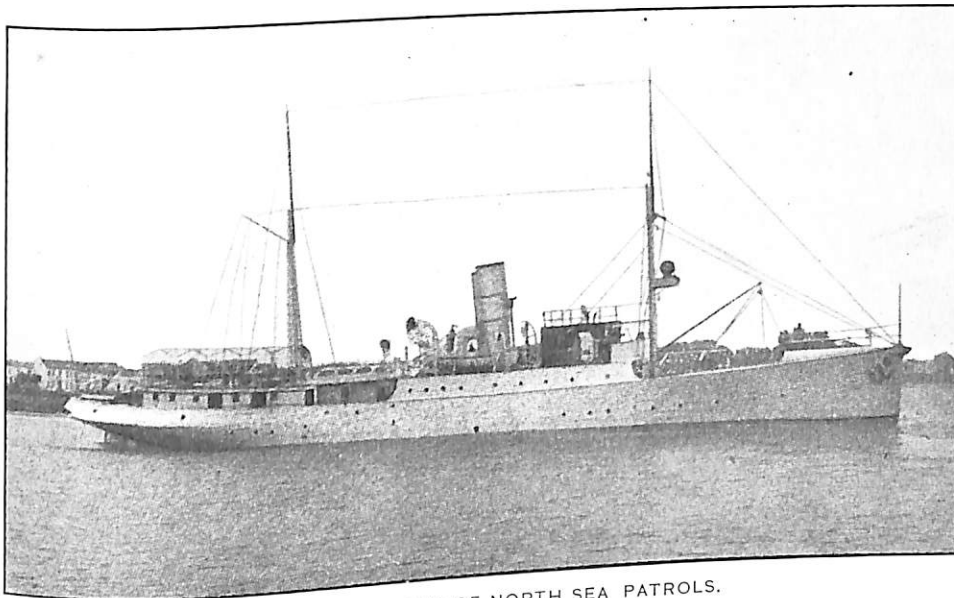
JOH. WESTER.
BAHRENFELD.

26347-17 (No. 8)

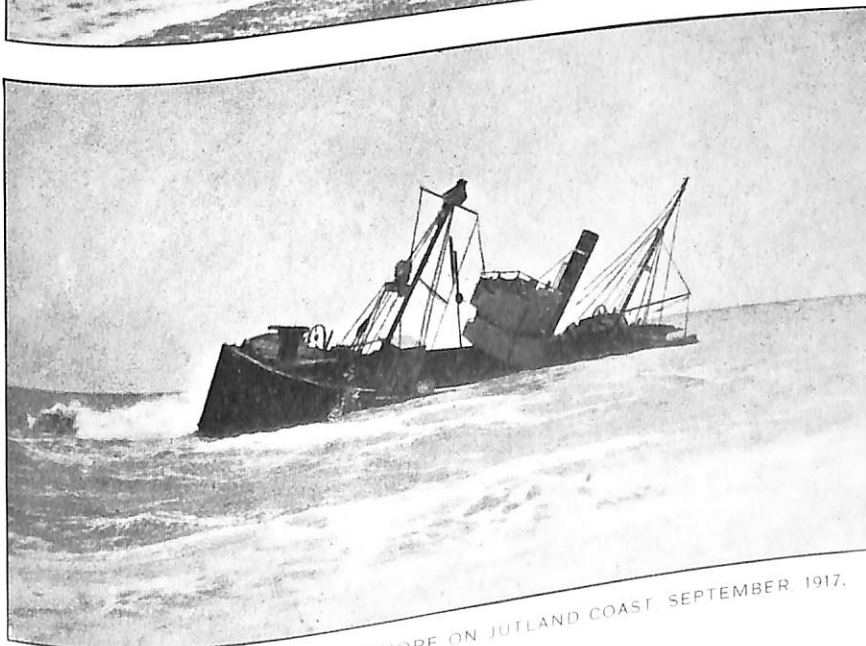
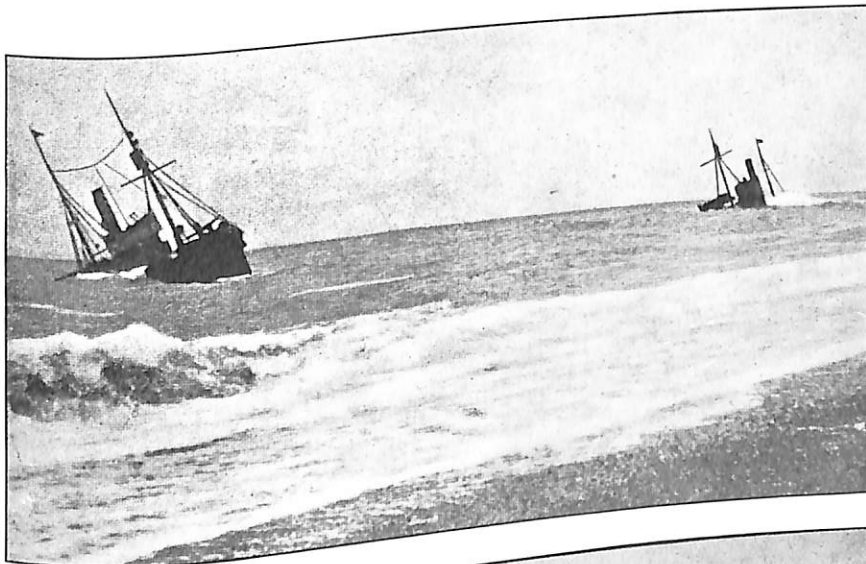
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Plate 107a.
C. B. 1182.
Part III.
October, 1917.

GERMAN NAVY—MISCELLANEOUS VESSELS.



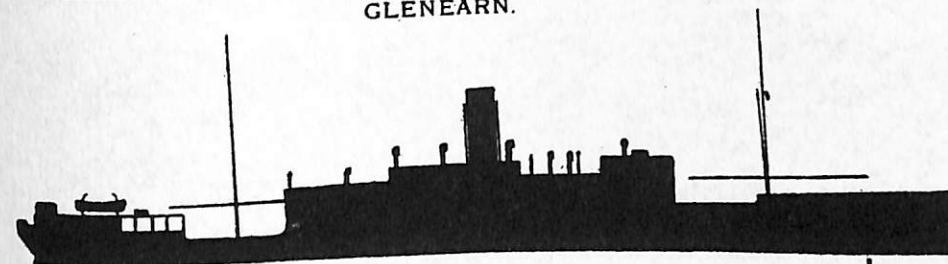
NORDSEE, LEADER OF NORTH SEA PATROLS.



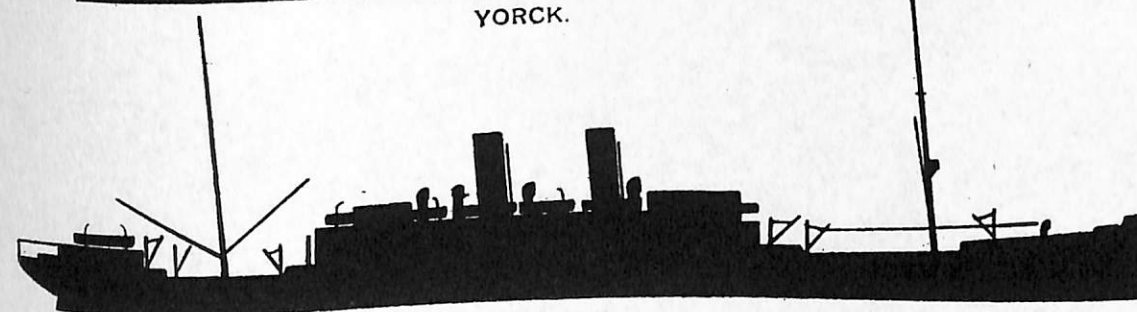
26347 17 (No. 8) MINE SWEEPING TRAWLERS ASHORE ON JUTLAND COAST SEPTEMBER 1917.

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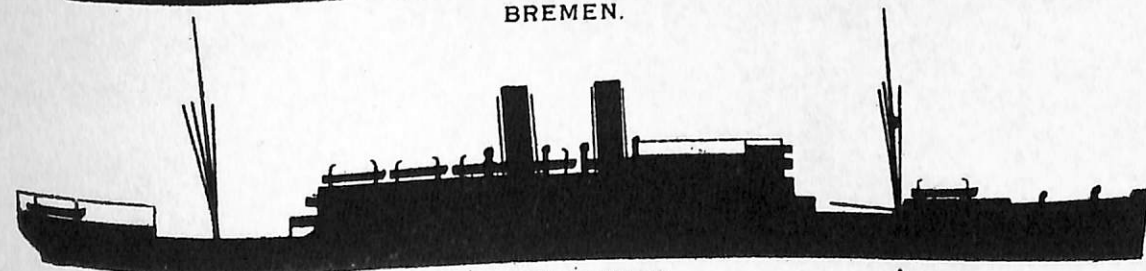
GLENEARN.



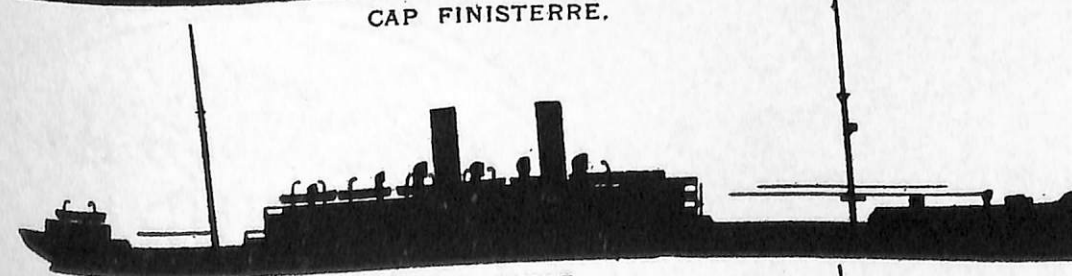
YORCK.



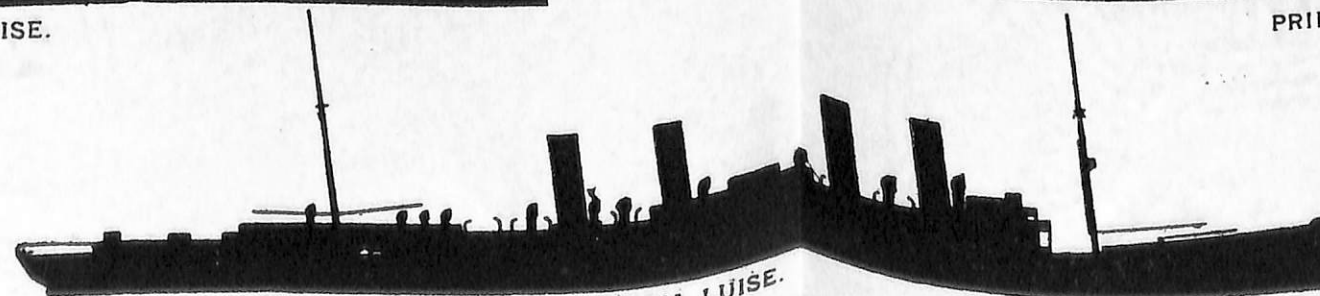
BREMEN.



CAP FINISTERRE.

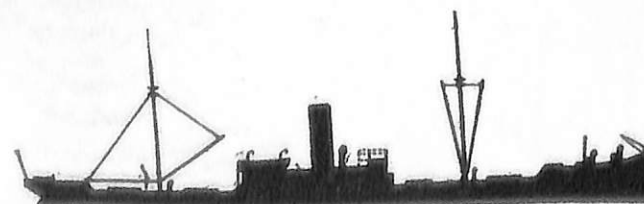


KÖNIGIN LUISE.



VICTORIA LUISE.

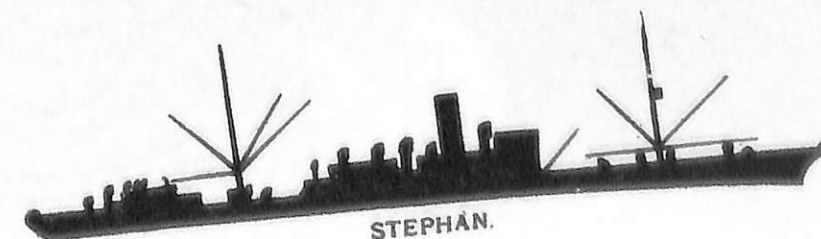
HOSPITAL SHIPS AND CABLE SHIPS.



ROSSALL.



GROSSHERZOG VON OLDENBURG.

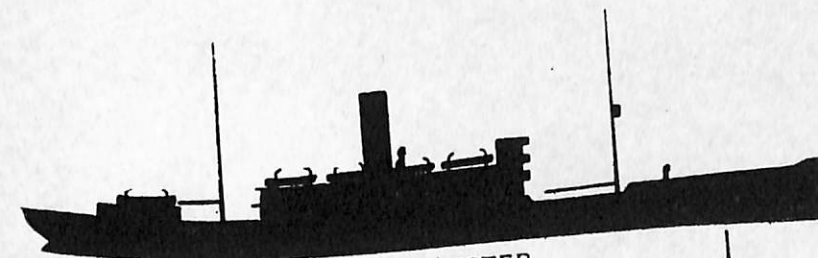


STEPHAN.

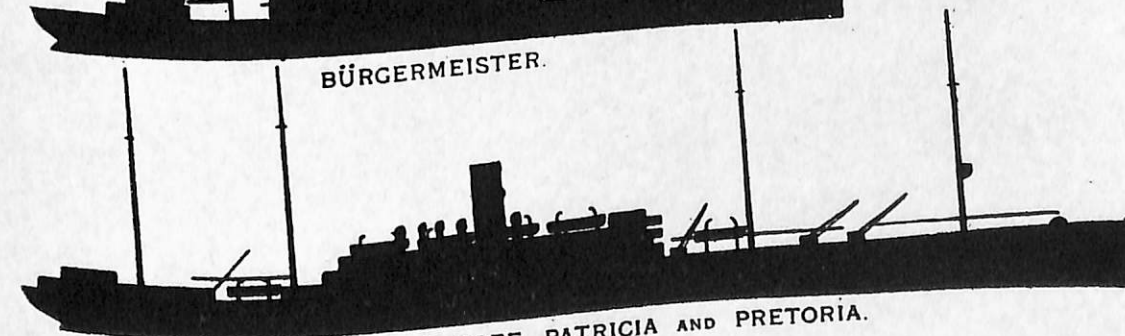
TRANSPORTS.



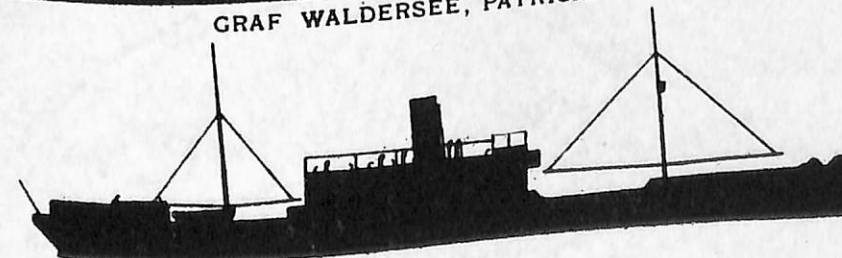
WOTAN.



BÜRGERMEISTER.



GRAF WALDERSEE, PATRICIA AND PRETORIA.



PRINZESSIN.

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