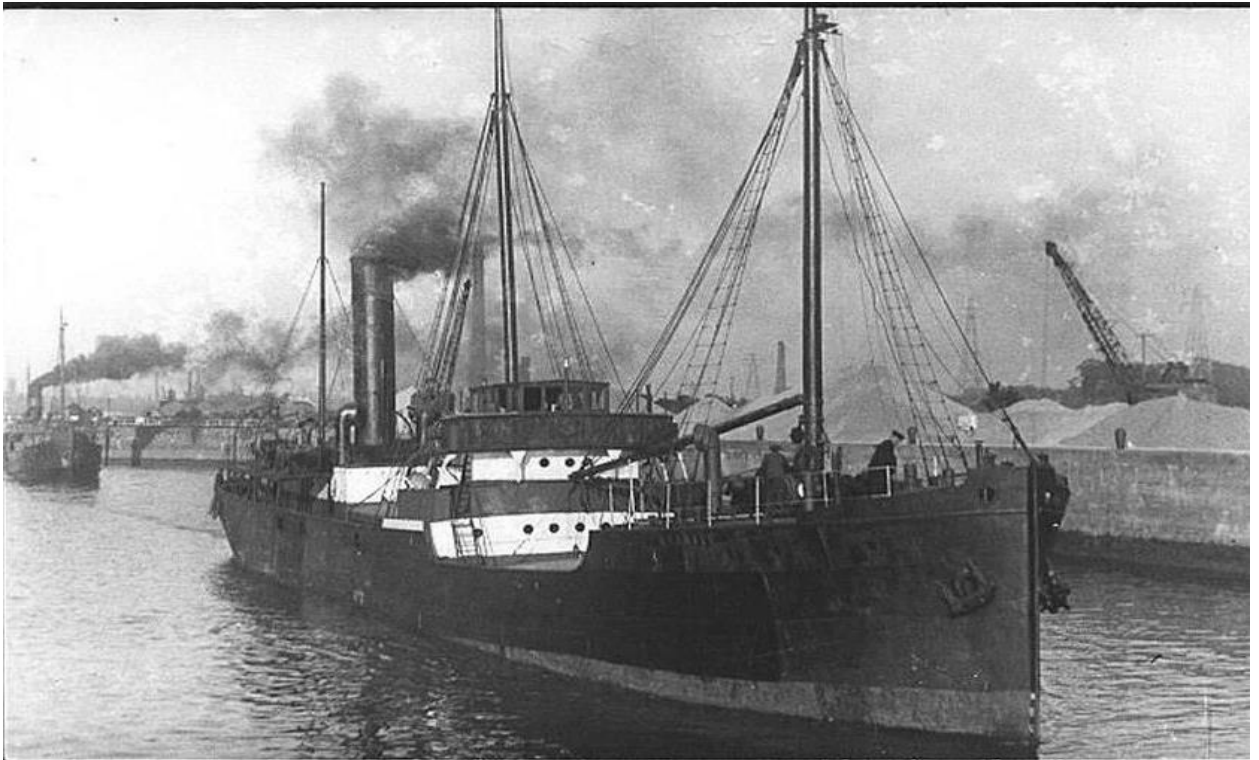


**Welsh Wreck Web Research Project  
(North Cardigan Bay)  
On-line research into the Sinking of:  
SS Kyanite (Steamship)**



**SS Kyanite**

**Report compiled by:  
Gareth J.S. Davies**

Report Title: **Welsh Wreck Web Research Project  
(North Cardigan Bay)  
On-line research into the Sinking of:  
SS Kyanite (Steamship)**

Compiled by: **Gareth J.S. Davies**  
Manila, Philippines  
Email/Skype: [davies\\_j\\_gareth@hotmail.com](mailto:davies_j_gareth@hotmail.com)

On behalf of: **Nautical Archaeology Society**  
Fort Cumberland  
Fort Cumberland Road  
Portsmouth  
PO4 9LD  
Tel: +44 (0)23 9281 8419  
E-mail: [nas@nauticalarchaeologysociety.org](mailto:nas@nauticalarchaeologysociety.org)  
Web Site: [www.nauticalarchaeologysociety.org](http://www.nauticalarchaeologysociety.org)

Managed by: **Malvern Archaeological Diving Unit**  
17 Hornyold Road  
Malvern  
Worcestershire  
WR14 1QQ  
Tel: +44 (0)1684 574774  
E-mail: [MADUdiving@gmail.com](mailto:MADUdiving@gmail.com)  
Web Site: [www.madu.org.uk](http://www.madu.org.uk)

Date: **February 2021**

Report Ref: ***Leave blank***

## **1.0 Abstract**

Since 2001 the Malvern Archaeological Diving Unit (MADU) has developed a database of vessels known to have wrecked around the coast of Wales.

This project is to discover information relating to the history of the steamship SS Kyanite built at John Shearer & Son, Glasgow in 1904.

On Feb 15 1917, the SS Kyanite was stopped by the German U-boat UC-65 approximately 28 miles SSW of Bardsey Island. The crew was offloaded and the SS Kyanite sunk.

The research has been conducted from information gathered from MADU and on-line sites as I do not reside in the U.K.

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## 2.4 Contributors

Ian Cundy       MADU Archaeological Diving Unit,  
                   Nautical Archaeology Society (Regional co-ordinator for Wales)

## 2.5 Abbreviations

MADU	Malvern Archaeological Diving Unit
MNL	Mercantile Navy List
LR	Lloyds' Registry

## 2.6 Appendices

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### **3.0 Introduction**

The steamship SS Kyanite was chosen as:

- it covered a period of sea history covering WW1.
- it was a similar ship and time to other ships I had researched from the MADU Wreck list.
- I live overseas online information would be my priority research tool and similar to my previous research a ship from this period should be reasonably well documented online.

The following topics form the basis of the research:

- What were the vessel's specifications?
- What historical information is available relating to the vessel?
- Has any salvage, etc. been carried out?
- Have there been any previous reports produced relating to the vessel?

## 4.0 Background

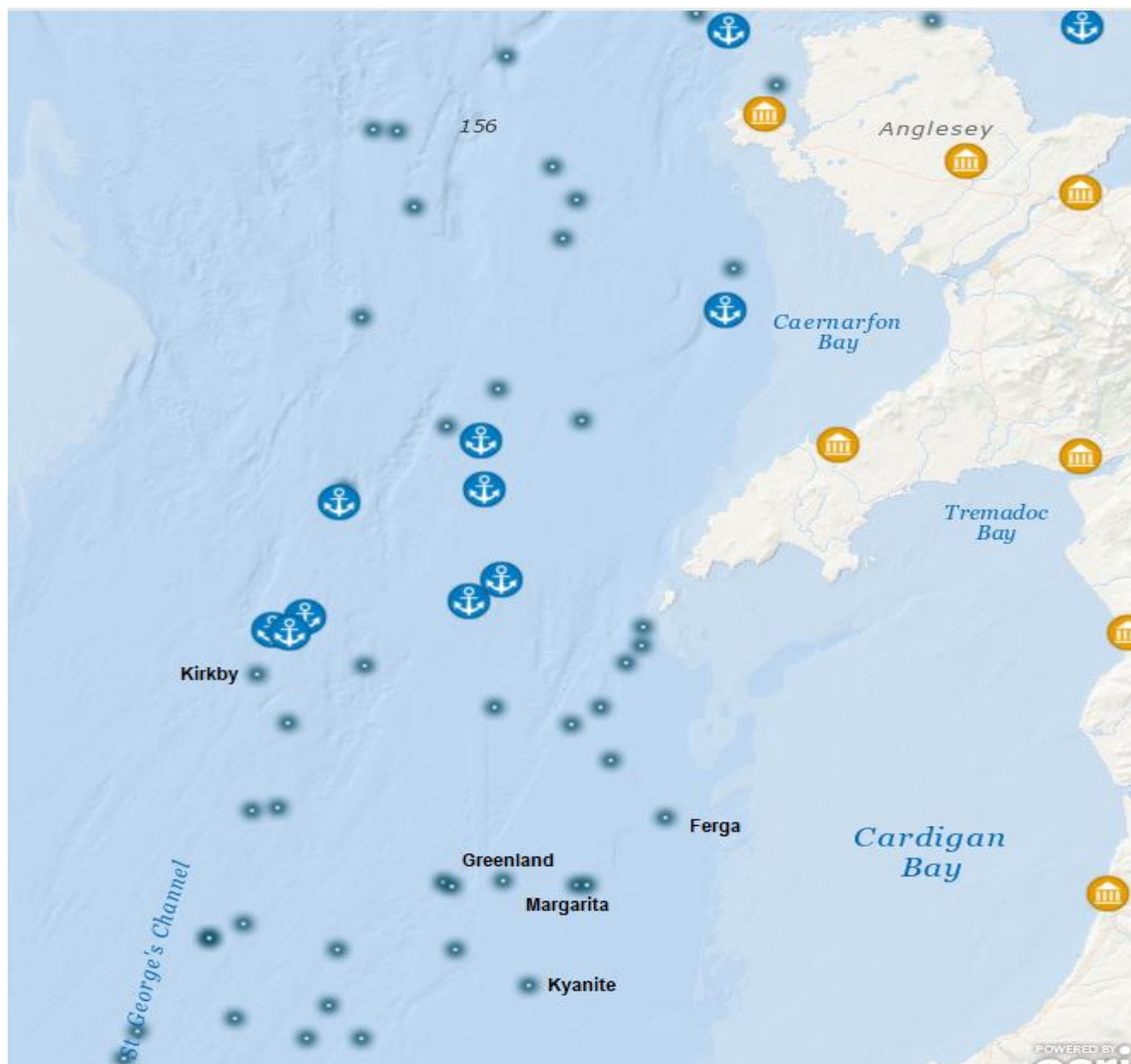
Prior to starting this research the only known data available to me was from the MADU Master Wrecksite Database Listing (Table 1) supplied by Mr Ian Cundy.

**Table 1: Extract from MADU Master Wrecksite Database**

MADU Ref. No.	Date Wrecked	Name	Location 1	Location 2	Details	Vessel Type	Matls	Ref.
	15/02/1917	Kyanite	Off Bardsey Island	27mi, SSW		Stm	Stl	RHIW / COF

On Feb 15 1917, the SS Kyanite sailing from Fleetwood Lancashire to Bristol was stopped by the German U-boat UC-65. The crew abandoned the SS Kyanite which was then sunk.

**Fig 1: Reported Location of the Sinking of the SS Kyanite**



## 5.0 Research Methodology

### Computer System

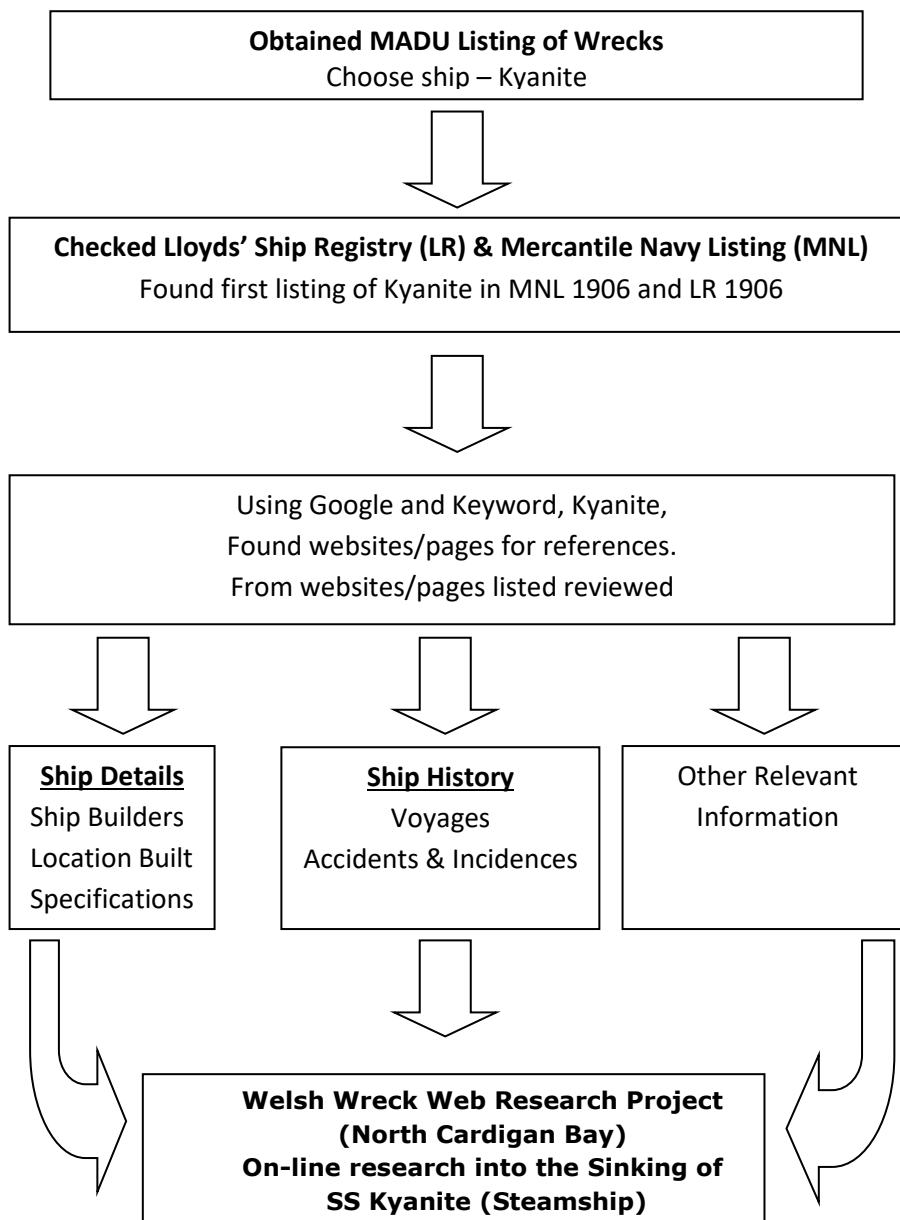
Acer Desktop 64 bit OS; 8 GB Memory, wireless connection.

Windows 10Pro

Microsoft Office 2007

Search engines used: Google Chrome

### Methodology



See Section 9 for list of websites viewed

## 6.0 Results

**Table 2: SS Kyanite (Steamship) Specification and History**

Vessel	Name/s	SS Kyanite		
	Type	Coaster Steamship General Cargo		
Built	Date	Laid Down: N/A		
		Launched: 10/08/1904		
		Delivered: 08/1904		
		Cost: N/A		
Builder	John Shearer & Son, Glasgow			
	Glasgow. Yard: Front Yard; Yard #: 37			
Construction	Materials	Steel		
	Decks	1		
	Bulkheads	3		
	Others	q/deck 87ft, b/deck 11ft, f/castle 33fts; machinery aft;		
Propulsion	Type	Steam		
		Single screw		
Engine	Details	T3cyl		
		15, 25, 40 x 27in		
		H.P: 99 nhp;		
		Muir & Houston Ltd., Glasgow		
Boilers	1 steel boiler			
Drive	Type	Propeller		
	Number	1		
Dimensions	Length	175 ft	2 ins	m
	Beam	28 ft	2 ins	m
	Draught	10 ft	6 ins	m
Tonnage	Gross	564 grt		
	Net	200 nrt		
	Deadweight	720 dwt		
Owner	First	William Robertson & Co. Ltd, Glasgow		
Registry	Port	Glasgow; 26/08/1904		
	Flag	GBR		
	Number	119156		
	Code	H.B.C.V.		
History	Routes	Liverpool, Ireland, Northern Island, NW England, Scotland, North and South Wales, Europe		
	Cargo	Coal, cement, pig iron, stone, steel plates, salt, iron ore, foods		
Final Voyage	From	Fleetwood Lancashire		
	To	Bristol		
	Captain	A Johnstone		
	Crew	14		
	Passengers	0		
	Cargo	Alkali		
	Date	15/02/1917		
	Location	52°18'N, 4° 55'W, 28 miles SSW of Bardsey Island		
	Cause	Captured and scuttled by UC-65		
	Loss of life	0		
Outcome	Sunk.			

## 7.0 Analysis

- The steamship SS Kyanite was built and launched (Appendix A) at John Shearer & Son, Glasgow in 1904 for William Robertson & Co. Ltd, Glasgow (Appendix B, C, D).
- SS Kyanite conducted coastal voyages between ports in NW England, Ireland, Northern Ireland, Scotland, Wales, England and Europe. Cargoes carried were predominately raw materials of coal, stone, ore, probably grains and other cargoes. In a number of years during the summer months the SS Kyanite made daily voyages between Southampton and The Channel islands.
- Sep 18 1904, the SS Kyanite ran aground in the River Mersey requiring major repair work
- Mar 1906, picked up wreckage from the Athens in the English Channel while sailing from Liverpool to Boston Lincolnshire (Appendix E)
- Jun 14 1915, ran ashore at Prilla Cove, Lizard Cornwall. Refloated and continued her voyage (Appendix F).
- Feb 14 1917, departed Fleetwood Lancashire for Bristol with a cargo of alkali.
- Feb 15 1917, stopped by U-boat UC-65 (Appendix G) and scuttled (Appendix H, I).
- Feb 17 1917, the crew of the SS Kyanite was safely landed.

From newspapers the SS Kyanite was recorded:

### 1904

Aug 10:	Launched Glasgow. Allocated H.B.C.V. as International Signal Code
Aug 28-30:	Sailed Glasgow for Havre France
Sep 01-02:	Sailed Havre France-Cardiff
Sep 04:	Sailed Cardiff for Galway
Sep 11:	Arrived Duddon Cumbria from Ballina Ireland
Sep 17-23:	Sailed Glasgow for Manchester
	Sep 18: grounded on Pluckington Bank River Mersey and badly strained. She lies across the tide and water ebbs and flows in her. Arrangements being made to lighten her to refloat. The Kyanite was carrying a cargo of pig iron.
	Sep 19: taken a considerable list to port and is going more over. About 100 tons of the cargo of pig iron were discharged the previous night and discharge proceeding.
	Sep 20: discharging of cargo continued but the vessel has taken a slight more list.
	Sep 21: steam pumps onboard and tested.
	Sep 23: refloated on evening of Sep 22 and placed alongside the river wall but still making water.
	Sep 29: Repairs tendered by Messrs H & C Grayson (Ltd) for £2985.
Dec 04-06:	Sailed Garston Liverpool for Cardiff via Bristol.
Dec 12:	Arrived Sunderland from Cardiff.
Dec 14-19:	Sailed Sunderland for Hamburg via Bo'ness Scotland.
Dec 23-28:	Sailed Hamburg for Preston with general cargo.

### 1905

Jan 07:	Sailed Glasgow for Duddon Cumbria collided 3½ miles below Cloch Light with the steamer Celt denting 3 plates on the port side.
Jan 13:	Sailed Glasgow for Limerick.
Jan 27-31:	Sailed Glasgow-Ayr-Dundalk-Llandulas Wales.
Feb 14-16:	Sailed Clyde for Garston Liverpool via Heysham Lancashire.
Feb 19-20:	Sailed Garston Liverpool for Cork.
Feb 21-24:	Sailed Cork-Cardiff-Belfast, coal for Belfast.
Mar 03:	Arrived Portsmouth from Cardiff.

Mar 08: Sailed Portsmouth for Hartlepool.  
 Mar 13-15: Sailed Dartmouth Devon for Cardiff.  
 Mar 19-20: Sailed Cardiff for Clyde.  
 Mar 25: Arrived Liverpool from Harrington Cumbria.  
 Mar 26-29: Sailed Manchester-Cork-Cardiff.  
 Apr 04: Arrived Belfast from Cardiff, steel plates.  
 Apr 07: Arrived Ayr from Llandulas Wales.  
 Apr 11: Arrived Manchester, light.  
 Apr 16: Arrived Cardiff from Belfast.  
 Apr 18-20: Sailed Cardiff for Glasgow.  
 Apr 26-30: Sailed Cork-Cardiff-Glasgow.  
 May 06-08: Sailed Whitehaven Cumbria for Newport Wales, 650 tons pig iron.  
 May 10-14: Sailed Newport Wales for Rouen France.  
 May 16: Arrived Jersey from Rouen France.  
 May 19: Sailed Newhaven Sussex for Guernsey.  
 May 28-Jun 25: Sailed Southampton-Jersey-Southampton daily.  
 Jun 16: Chartered by the L. and S.W Co. left Jersey with over 8000 packages on board.  
 Jul 12-13: Sailed Cardiff for Galway, flour.  
 Jul 16-19: Sailed Belfast-Cardiff-Belfast.  
 Jul 27-20: Sailed Newport Wales for Londonderry-Cardiff, coal to Londonderry.  
 Aug 05: Arrived Boulogne France from Cardiff.  
 Aug 08: Sailed London for Dieppe France.  
 Aug 10: Sailed London for Belfast via Ayr.  
 Sep 06: Sailed Belfast for Fleetwood Lancashire.  
 Sep 18-19: Sailed Great Yarmouth Norfolk for Liverpool.  
 Sep 29: Arrived Bristol from Garston Liverpool, 700 tons of coal.  
 Oct 06: Arrived Londonderry from Cardiff, 650 tons flour.  
 Oct 07-10: Sailed Londonderry-Maryport Cumbria-Cork.  
 Oct 13-14: Sailed Cork for Britton Ferry Wales.  
 Oct 20-24: Sailed London for Belfast via Avonmouth, cement.  
 Oct 26: Sailed Belfast for Fleetwood Lancashire.  
 Oct 31: Arrived Ayr from Glasgow.  
 Nov 09: Arrived Portsmouth from Cardiff.  
 Nov 11: Sailed Portsmouth for Queenborough Scotland.  
 Nov 19: Arrived Belfast from Queenborough Scotland, cement.  
 Nov 21-23: Sailed Belfast for Glasgow via Barrow Cumbria, pig iron.  
 Nov 28: Sailed Glasgow for Duddon Cumbria.  
 Dec 02: Sailed Glasgow for Dieppe France.  
 Dec 07-12: Sailed Dieppe France for Grangemouth Scotland via Grimsby.  
 Dec 14-16: Sailed Leith Scotland for Hamburg, coal.  
 Dec 21-26: Sailed Hamburg for Sligo Ireland via Preston, sugar.

**1906**

Jan 07-08: Sailed Liverpool for Cardiff.  
 Jan 20: Sailed Shields for Cherbourg.  
 Jan 30: Arrived Glasgow from Cherbourg.  
 Feb 02-06: Sailed Ayr-Dublin-Whitehaven Cumbria.  
 Feb 07-09: Sailed Whitehaven Cumbria for Cork.  
 Feb 10: Sailed Cork for Milford Haven Wales.  
 Feb 17-20: Sailed Glasgow for Brest France.  
 Mar 03: Arrived Glasgow from Hamburg.  
 Mar 13: Arrived Liverpool from Preston.  
 Mar 15-20: Sailed Liverpool for Boston Lincolnshire.  
 Landed 2 boats marked Athen, Hamburg #3 and #4 which she picked up in English channel.  
 Mar 23: Sailed Boston Lincolnshire for Grangemouth Scotland.  
 Mar 30: Arrived Portsmouth from Queensferry Scotland.

Apr 02:	Sailed Portsmouth for London.
Apr 04-08:	Sailed London for Ayr.
Apr 11:	Sailed Ayr for Dartmouth.
Apr 15:	Sailed Dartmouth for Cardiff.
Apr 24-27:	Sailed Glasgow-Cardiff-Glasgow.
May 11:	Sailed Cardiff for Glasgow.
May 18-22:	Sailed Glasgow for Ghent Belgium via Fleetwood Lancashire.
May 28:	Arrived Southampton from Ghent Belgium.
Jun 01:	Sailed St Malo France for Southampton.
Jun 07-12:	Sailed Southampton-Jersey-Southampton daily.
Jun 17:	Arrived Southampton from Ghent Belgium and sailed to Jersey.
Jun 18-Jul 07:	Sailed Southampton-Jersey-Southampton daily.
July 11:	Arrived Cardiff from Southampton.
July 12-18:	Sailed Cardiff-Belfast-Cardiff.
July 30-Aug 02:	Sailed Garston Liverpool for Cardiff.
Aug 03:	Sailed Cardiff for Glasgow.
Aug 14:	Sailed Fecamp France for Glasgow.
Sep 03:	Arrived Fecamp France from Alloa Scotland.
Sep 04:	Sailed Fecamp France for Neath Wales.
Sep 14:	Sailed London for Glasgow.
Sep 29:	Sailed Newport Wales for Cardiff.
Oct 03:	Sailed London for Glasgow.
Oct 13:	Sailed Troon for Boulogne France.
Oct 28:	Arrived Garston Liverpool from London.
Oct 21:	Sailed Garston Liverpool for Dublin.
Nov 05-06/09-10:	Sailed Liverpool-Dublin-Liverpool.
Nov 11-12:	Sailed Liverpool for Dublin.
Nov 13-14:	Sailed Dublin for Fleetwood Lancashire vis Harrington Cumbria.
Nov 23:	Arrived Shields from Fleetwood Lancashire.
Nov 27:	Arrived Dysart Scotland from Nestle.
Nov 30:	Sailed Dysart Scotland for Fecamp France.
Dec 08:	Arrived Cardiff from Treport France.
Dec 21-22:	Sailed Shields for Hamburg via Middlesbrough.
<b>1907</b>	
Jan 03:	Sailed Hamburg for Newcastle.
Jan 11:	Sailed Preston for Liverpool.
Jan 12-18:	Sailed Liverpool-Limerick-Cardiff.
Jan 22:	Sailed Cardiff for Sligo Ireland.
Feb 11-17:	Sailed Glasgow-Trouville France France-Cardiff.
Feb 23:	Arrived Burryport Wales from London.
Mar 04-06/12-15:	Sailed London-Irvine-Ardrossan-London.
Mar 20:	Sailed London for Glasgow.
Mar 28:	Arrived Workington Cumbria from Glasgow, 620 tons of ore.
Apr 06-08:	Sailed Glasgow for Dublin via Irvine Scotland.
Apr 09:	Arrived Burryport Wales from Dublin.
Apr 20:	Arrived Dublin from London.
Apr 27:	Sailed Duddon Cumbria for Glasgow.
May 15:	Arrived Jersey from Southampton, cargo sundries.
May 16-Jul 13:	Sailed Southampton to Channel Islands (Jersey or St Malo) daily.
Jul 14:	Sailed Southampton for Swansea.
Jul 16-18/20-21:	Sailed Swansea-St Malo France-Newport Wales.
Jul 22:	Sailed Newport Wales for Plymouth.
Jul 27:	Sailed Plymouth for Britton Ferry Wales.
Aug 01:	Arrived London from Briton Ferry for Wales.
Aug 05-06:	Sailed London for Belfast.
Aug 12:	Sailed Workington Cumbria for Newport Wales, 675 tons of bars.
Aug 19:	Sailed Newport Wales for Belfast, cargo coal.

Aug 20: Sailed Belfast for Garston Liverpool.  
 Aug 22-25: Sailed Garston Liverpool Liverpool-Cork-Cardiff.  
 Aug 27: Sailed Cardiff for Manchester, light.  
 Aug 31: Arrived Fraserburgh Scotland from Runcorn.  
 Sep 06: Arrived Goole Yorkshire from Fraserburgh Scotland.  
 Sep 19: Arrived Dartmouth from Dunkirk and sailed for Waterford.  
 Sep 21: Sailed Waterford for Limerick.  
 Sep 27: Sailed Liverpool for Cork.  
 Oct 01: Sailed Cork for Cardiff.  
 Oct 09: Sailed Britton Ferry Wales for London.  
 Oct 12: Sailed London for Irvine Scotland.  
 Oct 23: Sailed Irvine for Ardrossan Scotland.  
 Oct 28: Arrived Methil Scotland from Ardrossan Scotland.  
 Nov 04: Sailed Methil Scotland for St Brieuc France.  
 Nov 14: Arrived Cardiff from St Brieuc France.  
 Nov 16-30: Sailed Cardiff-Newcastle-Middlesbrough-Cardiff.  
 Dev 04-05: Sailed Cardiff for Belfast, cargo steel plates.  
 Dec 11: Sailed Ayr for Garston Liverpool.  
 Dec 14-16: Sailed Liverpool for Belfast and Cork.  
 Dec 23: Sailed Fleetwood Lancashire for London.  
 Dec 31: Arrived Hamburg from London.

**1908**

Jan 16-21: Sailed Liverpool for Hull.  
 Jan 21: collided with steamer Queenie. Suffered broken belting plate and starboard bow dented.  
 Jan 25-28: Sailed Goole Yorkshire for Jersey.  
 Feb 07: Sailed London for Londonderry.  
 Feb 15: Arrived Whitehaven Cumbria from Londonderry and sailed for Cork.  
 Feb 18: Sailed Cork for Cardiff.  
 Feb 20-21: Sailed Cardiff for Glasgow via Duddon Cumbria.  
 Feb 28: Sailed Liverpool for Cork.  
 Mar 10: Arrived Glasgow from Duddon Cumbria.  
 Mar 11: Arrived Dublin from Glasgow.  
 Mar 20: Sailed Cardiff for Glasgow.  
 Mar 28: Arrived Cork from Maryport Cumbria.  
 Mar 31: Sailed Cork for Cardiff.  
 Apr 02: Sailed Cardiff for Glasgow.  
 Apr 07-08: Sailed Whitehaven Cumbria for Cork.  
 Apr 09-11: Sailed Cork for Newport Wales via Cardiff.  
 Apr 13: Sailed Newport Wales for Plymouth.  
 Apr 18: Arrived Ayr from Plymouth.  
 Apr 25-29: Sailed Ghent Belgium for Cardiff.  
 May 04-08: Sailed Cardiff for Glasgow via Greenock.  
 May 11: Arrived Cork from Glasgow.  
 May 12-18: Sailed Cork for Newcastle via Fleetwood Lancashire.  
 May 27-28: Sailed Newport Wales for Plymouth.  
 May 31: Sailed Plymouth for Jersey.  
 Jun 03-Jul 06: Sailed Southampton to Channel Islands (Jersey or St Malo) daily.  
 Jul 08: Sailed Southampton for Middlesbrough.  
 Jul 20-21: Sailed Ardrossan-Dublin-Ardrossan.  
 Jul 26-28: Sailed Troon-Dublin-Llandulas Wales.  
 Aug 02: Arrived Shields from Ardrossan.  
 Aug 09: Arrived Dartmouth from Newcastle.  
 Aug 19: Sailed Port Talbot Wales for Belfast.  
 Sep 04: Arrived Middlesbrough from Trouville France.  
 Sep 05: Sailed Middlesbrough for Liverpool.  
 Oct 05: Arrived Cardiff from Rouen France.

Oct 07-10: Sailed Cardiff for Newcastle.  
 Oct 14-20: Sailed Shields for Trouville France via Blythe.  
 Oct 29-Nov 07: Sailed London-Londonderry-Ayr.  
 Nov 13: Arrived Fecamp France from Ayr.  
 Nov 18: Arrived Middlesbrough from Fecamp France.  
 Nov 21: Sailed Middlesbrough for Swansea.  
 Nov 28: Arrived Rouen France from Swansea.  
 Dec 08-10: Sailed Swansea for Fecamp France.  
 Dec 13: Arrived London from Fecamp France.  
 Dec 15: Sailed London for Liverpool.  
 Dec 29: Sailed Liverpool for Glasgow.

**1909**

Jan 05-06: Sail Glasgow for Garston Liverpool.  
 Jan 11: Arrived Bristol from Fleetwood Lancashire.  
 Jan 15: Arrived Fleetwood Lancashire, 630 tons salt.  
 Jan 21-27: Sailed Garston Liverpool Liverpool-Cork-Cardiff.  
 Jan 28-30: Sailed Briton Ferry Wales for Belfast.  
 Feb 06: Arrived Brest France from Glasgow.  
 Feb 09: Arrived Cardiff from Brest France.  
 Feb 14-19: Sailed Cardiff to Glasgow via Barrow Cumbria.  
 Feb 21-25: Sailed Glasgow-Cork-Cardiff.  
 Feb 27: Sailed Cardiff for Belfast, cargo steel plates.  
 Mar 02: Sailed Belfast for Cardiff.  
 Mar 04-08: Sailed Cardiff-Plymouth-Newport Wales.  
 Mar 10-13: Sailed Newport Wales for Harrington Cumbria and Llandulas Wales.  
 Mar 24: Arrived London from Glasgow.  
 Mar 25: Sailed London for Belfast.  
 Apr 04-09: Sailed Belfast-Fleetwood Lancashire-Bristol-Garston Liverpool.  
 Apr 17-21: Sailed Garston Liverpool Liverpool-Dublin-Swansea.  
 Apr 22: Arrived Glasgow from Port Talbot Wales.  
 Apr 28: Arrived Rouen France from Glasgow.  
 May 07-08: Sailed Duddon Cumbria for Bowling.  
 May 15: Arrived Manchester from Bowling Scotland, cargo 200 tons of pig iron.  
 May 18-20: Sailed Manchester-Dublin-Manchester.  
 May 29: Arrived Rouen France from Glasgow.  
 Jun 03-Jul 09: Sailed Southampton to Channel Islands (Jersey or St Malo) daily.  
 General cargoes including potatoes, straw, hay.  
 Jul 10: Sailed London for Glasgow.  
 Jul 18: Arrived Glasgow from Fleetwood Lancashire.  
 Jul 28-31: Sailed London for Preston.  
 Aug 06-09: Sailed Dublin for Bristol via Fleetwood Lancashire.  
 Aug 11-14: Sailed Bristol-Cardiff-Plymouth.  
 Aug 18-21: Sailed Plymouth for Glasgow via Llandulas Wales.  
 Aug 23-26: Sailed Glasgow for Cardiff via Liverpool.  
 Aug 28-Sep 04: Sailed Cardiff for Glasgow via Duddon Cumbria.  
 Sep 13: Arrived Shields from Liverpool.  
 Sep 16-20: Sailed Tyne for Newport Wales via Grimsby.  
 Sep 23-26: Sailed Newport Wales-Plymouth-Cardiff.  
 Sep 27-Sep 30: Sailed Cardiff for Glasgow via Duddon Cumbria.  
 Oct 04-14: Sailed Glasgow-Havre France-Cardiff.  
 Oct 15: Sailed Cardiff for Belfast with steel plates.  
 Oct 20: Sailed Belfast for Llandulas Wales.  
 Oct 29-Nov 01: Sailed Galway for Glasgow via Duddon Cumbria.  
 Nov 03: Sailed Glasgow for Ayr.  
 Nov 10: Arrived Cardiff from Granville France.  
 Nov 11: Sailed Cardiff for Belfast with steel plates.  
 Nov 14-21: Sailed Belfast-Whitehaven Cumbria-Cork-Limerick-Llandulas Wales.

Nov 27: Sailed Workington Cumbria for Liverpool.  
 Nov 31-Dec 04: Sailed Liverpool for Newcastle.  
 Dec 08: Sailed Shields for London.  
 Dec 13-16: Sailed London-Dunkirk-London.  
 Dec 29: Arrived Legue from Dysart Scotland.

**1910**

Jan 01: Arrived Newport Wales from St Brieuc France.  
 Jan 02-03: Sailed Newport Wales for Plymouth.  
 Jan 04-10: Sailed Plymouth for Preston via Fowey.  
 Jan 13-15: Sailed Preston for Glasgow via Duddon Cumbria.  
 Jan 18: Sailed Glasgow for Ardrossan Scotland.  
 Jan 25-28: Sailed Cork-Cardiff-Duddon Cumbria-Glasgow.  
 Jan 29-Feb 02: Sailed Glasgow for Havre France, cargo of coal.  
 Feb 11: Arrived Glasgow from Duddon Cumbria.  
 Feb 12-15: Sailed Glasgow for St Servan France.  
 Feb 18: Arrived Cardiff from St Servan France, ballast water.  
 Feb 20-27: Sailed Cardiff-Dublin-Duddon Cumbria-Glasgow.  
 Mar 10-12: Passed out No Man's Fort for London via Portsmouth and Rochester.  
 Mar 15: Sailed London for Glasgow.  
 Apr 08: Arrived Cardiff from Llanelli Wales.  
 Apr 24: Arrived Cardiff from Kilrush Ireland.  
 Apr 26-30: Sailed Cardiff for Glasgow via Barrow Cumbria.  
 May 03: Sailed Glasgow for Garston Liverpool via Ayr.  
 May 11-12: Sailed Plymouth for Cardiff.  
 May 13-15: Sailed Cardiff-Cork-Barrow Cumbria.  
 May 21-27: Sailed Cardiff for Glasgow via Barrow Cumbria.  
 Jun 12-13: Sailed London for Jersey.  
 Jun 15-Jul 06: Sailed Jersey-Newhaven Sussex-Jersey daily.  
 Jul 11: Sailed Cardiff for Belfast, cargo steel plates.  
 Jul 12: Sailed Belfast for Glasgow.  
 Jul 13-20: Sailed Glasgow-Fecamp France France-Cardiff.  
 Jul 21-28: Sailed Cardiff-Greenock-Maryport Cumbria.  
 Aug 04: Sailed Port Talbot Wales for Morlaix France.  
 Aug 17-19: Sailed Tyne for Grangemouth Scotland, with 680 tons pig iron.  
 Aug 26: Arrived Hamburg from Grangemouth Scotland.  
 Aug 27-28: Sailed Hamburg for Grimsby.  
 Sep 05: Arrived at Belfast from Grimsby, cargo sleepers and pig iron.  
 Sep 07: Sailed Belfast for Newcastle via Fleetwood Lancashire.  
 Sep 14-18: Sailed Newcastle for Newport Wales.  
 Sep 28: Arrived Cardiff from Kilrush Ireland.  
 Oct 04: Sailed Belfast for Preston.  
 Oct 11: Arrived Shields from Bristol.  
 Oct 17-20: Sailed Shields for Newport Wales.  
 Oct 23-27: Sailed Newport Wales-Penzance-Port Talbot Wales, coal to Penzance.  
 Oct 29-Nov 01: Sailed Port Talbot Wales for Glasgow, cargo angle irons and sections.  
 Nov 07-09: Sailed Glasgow-Limerick-Workington Cumbria.  
 Nov 23: Sailed Swansea for Portsmouth.  
 Nov 30: Sailed London for Dublin.  
 Dec 08: Sailed Liverpool for Newport Wales.  
 Dec 20: Sailed Liverpool for Cardiff.  
 Dec 25: Sailed Cardiff for Belfast, cargo flour and bran.  
 Dec 28-30: Sailed Belfast-Liverpool-Limerick.

**1911**

Jan 19: Arrived Preston from Middlesboro, pig iron.  
 Jan 22: Sailed Preston for Llandulas Wales, light.  
 Jan 26: Sailed Ayr for Galway, coal.

Apr 18: Sailed Manchester for Dublin, coal.  
 Apr 22: Sailed Belfast for Garston Liverpool.  
 May 02: Arrived Ayr from Llandulas Wales, limestone.  
 May 25: Arrived Ardrossan from Irvine, part cargo cement.  
 Jun 16: Sailed Glasgow for Troon.  
 Jul 23: Past west of Lizard Cornwall.  
 Jul 30: Past east of Lizard Cornwall.  
 Sep 11: Sailed Belfast for Swansea.  
 Sep 20: Sailed Glasgow for Garston Liverpool.  
 Sep 26: Arrived Havre from Glasgow.  
 Nov 07: Sailed Glasgow for Dublin.  
 Dec 15: Arrived Belfast from Ellsemere Port, coal.

**1912**

Jan 06: Arrived Whitehaven Cumbria from Irvine Scotland, light.  
 Feb 07: Arrived Ardrossan Scotland from Glasgow, light.  
 Feb 17: Arrived Belfast from Swansea.  
 June 30: Sailed Grangemouth Scotland for St Malo, coal.  
 Aug 03-07: Sailed Swansea-Rouen France-Swansea.  
 Aug 15: Sailed Glasgow for London.  
 Sep 05: Sailed Glasgow for St Brieux France.  
 Sep 24: Arrived Belfast from London, timber.  
 Nov 13: Sailed Glasgow for Rochester Kent.

**1913**

Jan 26: Arrived Belfast from Cardiff, steel plates.  
 Jan 28: Arrived Glasgow from Harrington Cumbria, 650 tons pig iron.  
 Feb 14: Sailed Glasgow for Dublin.  
 Apr 19: Arrived Greenock, 650 tons of coal.  
 May 08: Arrived Ardrossan Scotland from Llandulas Wales, limestone.  
 Jun 09: Sailed Manchester for Rouen France, coal.  
 Jun 23: Arrived Glasgow from London.  
 Jun 25: Sailed Glasgow for Devonport.  
 Jul 07: Sailed Belfast for Fleetwood Lancashire.  
 Aug 23: Arrived Glasgow from Achill Island Ireland.  
 Sep 30: Sailed Cardiff for Rosyth Scotland, 100 rails and 80 contractor plant.  
 Oct 07: Arrived Brugge Belgium from Grangemouth Scotland.

**1914**

Jan 03: Sailed Ardrossan Scotland for Newcastle.  
 Jan 15: Sailed Sunderland for Hull.  
 Jan 23: Sailed Neath Wales for Belfast coal.  
 Jan 27-Feb 01: Sailed Belfast for Newcastle via Fleetwood Lancashire.  
 Feb 14: Arrived Grangemouth Scotland from London, scrap iron.  
 Feb 19: Sailed Grangemouth Scotland for London, bricks and clay.  
 Mar 02: Passed west of Lizard Cornwall.  
 Mar 25: Passed east of Lizard Cornwall.  
 Apr 02: Passed west of Lizard Cornwall.  
 Apr 08: Sailed Ardrossan Scotland for Workington Cumbria, light.  
 May 09: Arrived Swansea from Ghent Belgium, scrap iron.  
 May 21: Arrived Cardiff from Havre France light.  
 May 23: Sailed Cardiff for Newcastle.  
 Jun 02: Sailed Middlesbrough for Newport Wales, pig iron.  
 Jun 22: Arrived London.  
 Jun 30: Sailed Glasgow for Tory Island Ireland.  
 Jul 06: Sailed Glasgow for Rothesay Scotland.  
 Jul 17: Arrived Cardiff from Fenit Ireland, light.  
 Jul 18: Sailed Cardiff for Cork.

Aug 01: Sailed Sunderland for Dysart Scotland.  
 Aug 19: Arrived Bristol from Penzance.  
 Aug 22: Sailed Bristol for London.  
 Sep 03: Sailed Glasgow for Rochester Kent.  
 Sep 09: Arrived Bristol from Fleetwood Lancashire, 2 tons crude alkali.  
 Sep 22: Arrived Newcastle from Ipswich.  
 Oct 14: Sailed Glasgow for London.  
 Nov 22: Sailed Glasgow for Newport Wales.  
 Dec 07: Arrived Cardiff.  
 Dec 14: Sailed Glasgow for Dieppe France, coal.  
 Dec 26: Arrived Liverpool from Dieppe France.

**1915**

Jan 02: Arrived Ardrossan Scotland from Duddon Cumbria, ore.  
 Feb 13: Arrived Ardrossan Scotland from Duddon Cumbria, ore.  
 Feb 19: Arrived Swansea from Harrington Cumbria, pig iron.  
 Mar 04: Arrived Cardiff from Millom Cumbria, pig iron.  
 Mar 13: Arrived Cardiff from Plymouth.  
 Apr 12: Arrived St Malo France from Troon.  
 Apr 23: Passed west Lizard Cornwall.  
 May 01: Passed east Lizard Cornwall.  
 May 17: Passed west Lizard Cornwall.  
 Jun 08: Arrived Ayr from Llandulas Wales, limestone.  
 Jun 11: Passed east Lizard Cornwall.  
 Jun 17: Passed west Lizard Cornwall.  
 Jun 24: Sailing Treport France to Manchester with cargo of flint went ashore at Prilla Cove, Lizard Cornwall. Crew of 14 safe. The engine room was flooded.  
 Jun 25: the salvage steamer Lady of the Isles arrived to assist if required. Overdue fee of 70g issued.  
 July 01: refloated and proceeded to Plymouth.  
 Nov 10: Passed east Lizard Cornwall.  
 Nov 18: Arrived Barry Wales from Treport France, light.

**1916**

Jan 03: Passed east Lizard Cornwall.  
 Jan 25: Arrived Treport France from Glasgow.  
 Jan 31: Arrived London from Treport France.  
 Feb 12: Arrived Dieppe France from Glasgow.  
 Feb 21: Arrived London from Dieppe France.  
 Apr 11: Sailed Glasgow for Caen France.  
 Apr 29: Arrived Belfast from Cardiff, steel plates.  
 May 02: Sailed Belfast for Whitehaven Cumbria.  
 May 09: Arrived Dieppe France from Glasgow.  
 May 26: Arrived Fecamp France from Ayr.  
 Jun 17: Sailed Gloucester to Cork, 700 ton of coal.  
 Jul 05: Passed Prawle Point Devon.  
 Jul 22: Sailed Gloucester to Cork, 700 ton of coal.

**1917**

Feb 14: Sailed Fleetwood Lancashire for Bristol, cargo alkali.  
 Feb 15: Captured and sunk by UC-65, 28 miles SSW of Bardsey Island.  
 Feb 17: Crew landed ashore safely.

**Table 3: UC-65 (U-boat) Specification and History**

Vessel	Name/s	UC-65
	Type	UC 11 submarine
Built	Date	Ordered: Jan 12 <sup>th</sup> 1916
		Launched: July 8 <sup>th</sup> 1916
		Delivered: Nov 7 <sup>th</sup> 1916
		Cost: N/A
	Material	Steel
	Builder	Blohm & Voss, Hamburg; Yard #281
	Owner	Imperial German Navy – Kaiserliche Marine
Dimensions	Length	50.35 m
	Beam	5.22 m
	Draught	3.63 m
Tonnage	Gross	427t (surface); 508t (submerged)
Propulsion	Type	2 x propeller shafts
Engine	Details	2x6 cyl, 4-stroke diesel, 600PS 400 kW; 590 shp) 2 Siemens-Schuckert electric motors, 620 PS 460 kW; 610 shp HP: 500
	Speed	12 knts (surface); 7.4 knts (submerged)
	Range	10,420 nat miles at 7 knts surface; 52 nat miles at 4 knts submerged
	Depth	50m
Armaments		6 × 100 cm (39.4 in) mine tubes 18 × UC 200 mines 3 × 50 cm (19.7 in) torpedo tubes (2 bow/external; one stern) 7 × torpedoes 1 × 8.8 cm (3.5 in) Uk L/30 deck gun
Operations	Captains	Kptlt. Otto Steinbrinck, 10 November 1916 – 31 July 1917 Kptlt. Max Viebeg, 1 August – 3 September 1917 Kptlt. Claus Lafrenz, 4 September – 3 November 1917
	Crew	27
	Patrols	11
	Sinkings/ Damaged	105 merchant ships sunk 116,218 grt 11 merchant ships damaged 64,712 grt 1 warship sunk 11,000 grt 1 warship damaged 850 grt
Wrecking	Date	3/11/1917
	Location	50°31'N 00°27'E.
	Cause	Torpedoed by HM SubC15
	Loss of life	22 dead and 5 survivors
	Outcome	Wreck. UC-65 lies at a maximum depth of 50m

- On 1 February 1917 Germany declared a renewal of 'unrestricted submarine warfare' in a last ferocious attempt to force an end to the First World War.
- Almost immediately, major losses of merchant ships occurred in Welsh waters. Thirteen ships were sunk off Bardsey Island and the Pembrokeshire coast in that month alone – all by the U-boat, UC-65, captained by Otto Steinbrinck, one of the most successful German U-boat commanders of the war.
- UC-65 also patrolled in the North Sea, and coast of France. On Nov 3 1917, at 16h45, HM Sub C-15 (Appendix J, K) fired two torpedoes and obtained one hit on the stern of UC-65, which sank immediately (Appendix L). Only the five men on the bridge (incl. Commander Lafrenz) survived, the rest of the crew, 22 in total, were killed.

**Table 4: C-15 (Submarine) Specification and History**

Vessel	Name/s	HMS C15 (Appendix C, D)
	Type	C-class submarine
Built	Date	Laid Down: Dec 7 <sup>th</sup> 1906
		Launched: Jan 21 <sup>th</sup> 1908
		Delivered: Apr 1 <sup>st</sup> 1908
		Cost: N/A
	Material	Steel
	Builder	Vickers, Barrow Cumbria
	Owner	British Royal Navy
Dimensions	Length	142 ft 2.5in
	Beam	13 ft 7in
	Draught	11 ft 2in
Tonnage	Gross	287t (surface); 316t (submerged)
Propulsion	Type	1 x electric motor
Engine	Details	1x16 cyl Vickers petrol engine 600 bhp, 450kW 300hp, 220 kW electric
	Speed	12 knts (surface); 7 knts (submerged)
	Range	910 nat miles at 12 knts surface; 52 nat miles at 4 knts submerged
	Depth	100 ft
	Crew	2 x officers, 14 crew
Armaments		2 × 18 in (450 mm) bow torpedo tubes 800 yards @ 26.5 knots, 118 lbs. wet gun-cotton warhead 2 reloads
	Outcome	Scrapped Feb 1922

## **8.0 Conclusions & Recommendations**

The project took approximately 3 working days with 2 day of that time spent on on-line research.

Having read the report, sufficient information has been collated to compile a comprehensive history of the steamship SS Kyanite.

The SS Kyanite was an extremely busy ship for coastal shipping around the ports of North West England, Ireland, Northern Ireland, Scotland Wales, eastern ports of Great Britain and Europe In many voyages reported, the SS Kyanite was only in port for the time it took to load or offload/load a cargo.

Many different WebPages were viewed ranging from large organisations e.g. Lloyd's Registry Listings to smaller WebPages such as local history or people with a given interest in a subject. The quantity and quality of the WebPages appeared depended on the targeted audiences and the amount of work undertaken. Some of the historical and interest in a subject WebPages were extremely useful. Newspaper archives were also very helpful in giving an overall picture of the operation of the ship and filling in information gaps.

Much of the data collated between websites checked out with some discrepancies observed.

A few WebPages viewed led to pay to view pages. However in most cases the information was obtained from other sources.

From the research conducted, setting a goal and how to reach that goal should be mapped out first. Careful use of specific words in search engines is very important. Due to the name a more specific search through archived newspapers was made using specific newspapers to view e.g. Lloyd's List. This vastly reduced the number of articles but keep the search focused.

## 9.0 References

### 9.1 Online WebPages

The following websites and pages have been used in the compilation of this report:

<https://www.britishnewspaperarchive.co.uk/>

Keyword: steamship Kyanite

<https://coflein.gov.uk/en/site/274839/details/kyanite>

<https://www.crewlist.org.uk/data/vesselsalpha>

<https://www.crewlist.org.uk/data/viewimages?data/viewimages>

[http://www.clydeships.co.uk/view.php?official\\_number=&imo=&builder=&builder\\_eng=&year\\_built=&launch\\_after=&launch\\_before=&role=&propulsion=&category=&owner=&port=&flag=&disposal=&lost=&ref=16103&vessel=KYANITE](http://www.clydeships.co.uk/view.php?official_number=&imo=&builder=&builder_eng=&year_built=&launch_after=&launch_before=&role=&propulsion=&category=&owner=&port=&flag=&disposal=&lost=&ref=16103&vessel=KYANITE)

<https://www.google.co.uk/>

<https://hec.lrfoundation.org.uk/archive-library/casualty-returns>

<https://hec.lrfoundation.org.uk/archive-library/lloyds-register-of-ships-online>

<https://newspapers.library.wales/>

<https://rcahmw.gov.uk/one-hundred-years-ago-today-2/>

<http://www.rhiw.com/>

<https://uboat.net/wwi/>

[https://uboat.net/wwi/ships\\_hit/3401.html](https://uboat.net/wwi/ships_hit/3401.html)

<https://uboat.net/wwi/types/?type=U+63>

<https://uboatproject.wales/>

<https://uboatproject.wales/test-esri-map/>

[https://en.wikipedia.org/wiki/HMS\\_C15](https://en.wikipedia.org/wiki/HMS_C15)

<https://www.wrecksite.eu/wreck.aspx?12229>

[https://en.wikipedia.org/wiki/SM\\_UC-65](https://en.wikipedia.org/wiki/SM_UC-65)

### 9.2 Personal Correspondences

I would like to thank Mr Ian Cundy for supplying the initial information and other information with regards to the research project.

**Appendices:**

**Appendix A: Launch Announcement Aug 19 1904, SS Kyanite**

**KYANITE.**—On Aug. 10 Messrs. John Shearer and Sons (Limited), Kelvinbaugh, launched a screw steamer, built to the order of Mr. William Robertson, Glasgow, for his well-known Gem Line. Her dimensions are:—Length, 175 feet; breadth, 28 feet; and depth, 13 feet, with a carrying capacity of about 700 tons. She is to be fitted with triple-expansion engines by Messrs. Muir and Houston (Limited). The vessel was named **Kyanite**.

**Appendix B: Appropriation Book 1904, SS Kyanite**

Official Number.	Name of Ship.	Tonnage.	Whether Steam or Sailing.	Port of Registry.	Date of Registry.
11915	1 <i>Dalmuir</i>	533	Steam	Glasgow	27 Aug 1904
	2 <i>Marie</i>	27	Steam	"	17 " "
	3 <i>Emerald</i>	305	"	"	16 " "
	4 <i>Beroe</i>	6	Sailing	"	14 Sept "
	5 <i>Albionford</i>	69	Steam	"	24 Dec "
	6 <i>Kyanite</i>	200	"	"	26 " "
	7 <i>Luque</i>	876	"	"	29 " "

**Appendix C: Mercantile Navy Listing 1906, SS Kyanite**

Official No.	Name of Ship.	International Code Signal (if any).	Port and Year of Registry.	Where Built.	When Built.	Whether Iron, Wood, Steel, or Composite.	Dimensions.			Registered Tonnage.		Horse Power of Engines and Description of Propeller.	Owner, or Part Owner, and Manager (if recorded). × Signifies Managing Owner. Italics signify Manager.
							Length.	Breadth.	Depth of Hold.	Net Tonnage.	Gross Tonnage.		
98034	Kweiyang	L.N.Q.C	London, 1890	Govan	1890	Steel	ft. 10 <sup>in</sup> 255 0	ft. 10 <sup>in</sup> 36 1	ft. 10 <sup>in</sup> 21 8	1062	1715	250 Sc.	China Navigation Co., Lim., 8, Billiter Sq., City London. <i>James H. Scott, same address.</i>
109869	Kwong Chow	..	Hong Kong, 1902	Hong Kong	1902	Steel	192 0	35 0	12 1	507	924	80 Sc.	The Shin On Steam Ship Co., Lim., 8, Queen's Road West, Victoria, Hong Kong.
115883	Kwong-Sang	T.P.J.S	London, 1902	Newcastle	1902	Steel	290 0	42 1	22 5	1428	2283	200 Sc.	Indo-China Steam Navigation Co., Lim., 29 Cornhill, City, London. <i>Wm. Keswick, 3, Lombard St., City, London.</i>
116032	Kwong Tung	..	Hong Kong, 1904	Hong Kong	1904	Steel	192 0	35 0	11 3	417	823	91 Sc.	The Yuen On Steam Ship Co., Lim., 8, Queen's Road West, Victoria, Hong Kong.
115729	Kyaikto	..	Glasgow, 1902	Dumbarton	1902	Steel	100 7	22 6	6 2	31	92	8 Sc.	The Irrawaddy Flotilla Co., Lim., 15, Sain Vincent Place, Glasgow. <i>John A. Galbraith, same address.</i>
119156	Kyanite	H.B.C.V	Glasgow, 1904	Kelvinhaugh	1904	Steel	175 2	28 2	10 6	200	564	99 Sc.	× William Robertson, 15, Gordon St., Glasgow.
94013	Kyankpya	..	Moulmein, 1895	Moulmein	1895	Steel	96 9	18 0	6 3	52	96	40 Sc.	George E. L. Dawson, Moulmein.
115755	Kyarra	T.W.S.C	Fremantle, W.A., 1903	Dumbarton	1903	Steel	415 5	52 2	28 6	4383	6953	375 Sc.	Australasian United Steam Navn. Co., Lim. 23, Great Winchester Street, City, London.
92023	Kyle	..	Ayr, 1885	Ayr	1885	Steel & Iron	176 0	30 1	12 5	272	527	90 Sc.	Ayr Harbour Trustees, Ayr. <i>William Pollock, 24, Sandgate, Ayr.</i>
121240	Kyleakin	H.C.Q.N	Glasgow, 1905	Greenock	1905	Steel	330 5	48 0	22 0	1976	3073	286 Sc.	Kyle Shipping Co., Lim., 118, Queen St., Glasgow <i>Henry Abram, Francis R. Addie, and Rober Cousin, same address.</i>

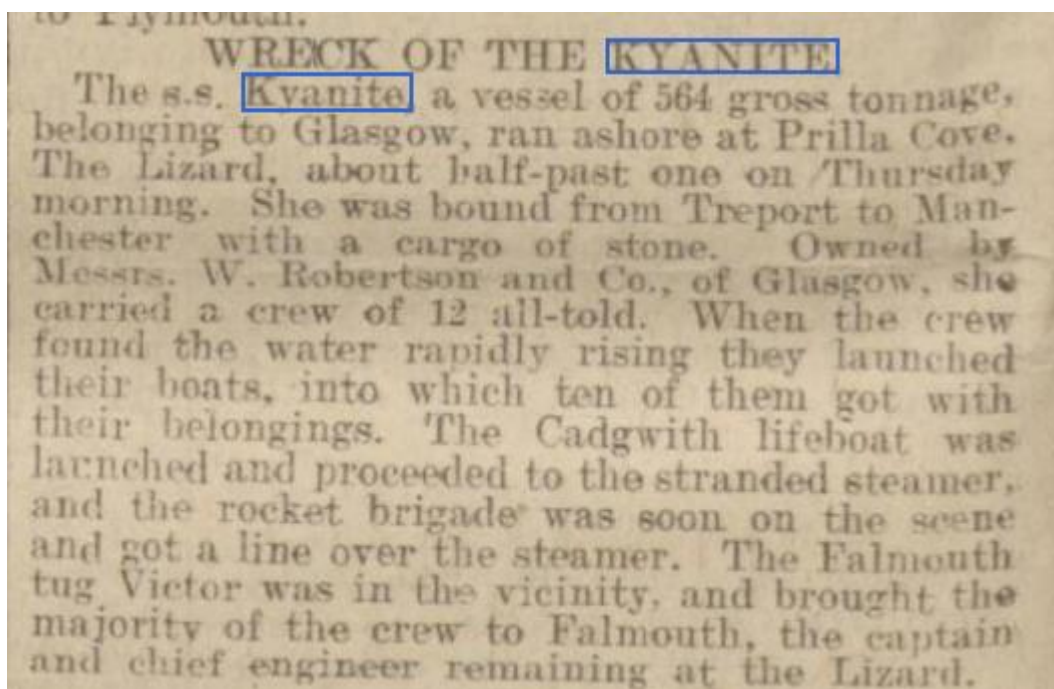
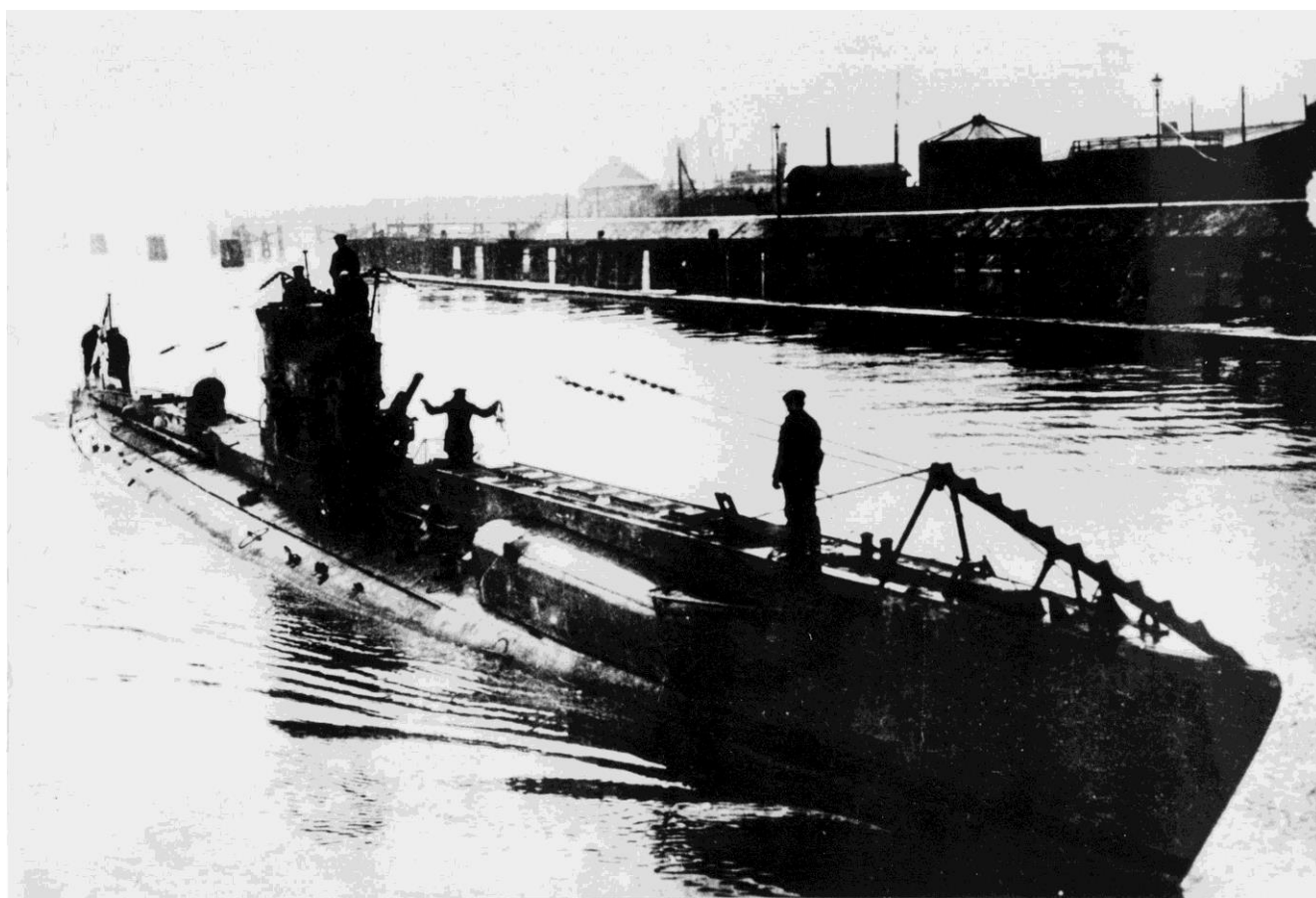
Appendix D: Lloyd's Register 1906, SS Kyanite

KWA-KYT		LLOYD'S REGISTER.				NAVIRES A VAPEUR.				1905-06				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Number of Tonnage	Nom du Navire.	Matière, Grément, etc.	Détails de la Classification.	Construct.	Armateurs.	Dimensions d'après le Dessin.	Port d'Armement.	Machines.	Mar.	Machine.	Force.	Force.	Force.	Force.
1635	681 Kwan-on Maru No.26	WoodScR	1903 K. Oaki	K. Oaki	275-5(28-5)(28-5)	Osaka	Japan	3000	224°45'45"	20N14	12 x 9	12,000		
155	682 Kwanyei Maru	WoodScSp	1903 T. Fukui	S. Keida	111-0(16-9) (9-2)	Osaka	Japan	1000	142°48'15"	20N14	12 x 9	12,000		
812	683 Kwarra	SteelTwinScR	1891 NavaCon	African S.S. Co.	200-3(26-2)(12-1)	London	British	1000	124°30'43"-24"	10N14	12 x 9	12,000		
879	684 Kwei Lee	SteelTwinScR	1893 Napier	Shank & Bell	250-0(40-0)	Glasgow	British	1000	18°19'42"-21"	10N14	12 x 9	12,000		
1742	685 Kwellin	SteelScR	1891 Scott & Co.	Greenock	260-0(36-8)(21-6)	London	British	1000	14°29'47"-30"	10N14	12 x 9	12,000		
1718	686 Kweiyang	SteelTwinScR	1890 Lon. & Gls.	Co. (Lim.)	255-0(36-1)(21-8)	London	British	1000	14°22'47"-30"	10N14	12 x 9	12,000		
924	687 Kwong Chow	SteelTwinSc	1902 W.S. Bailey	Shanghai	182-0(25-0)(12-1)	Hong Kong	British	1000	14°48'22"-22"	10N14	12 x 9	12,000		
2283	688 Kwong Sang	SteelScR	1902 Wigham-	Indo-China Steam	290-0(42-1)(15-2)	London	British	1000	21°34'46"-42"	10N14	12 x 9	12,000		
2114	689 Kwong Tung	SteelTwinSc	1904 W.S. Bailey	Shanghai	192-0(25-0)(11-1)	Hong Kong	British	1000	14°48'22"-22"	10N14	12 x 9	12,000		
148	690 Kwosei Maru	WoodScR	1904 T. Maye-	T. Mayekawa	110-7(15-9)(12-3)	Osaka	Japan	1000	124°42'15"	20N14	12 x 9	12,000		
564	691 Kyanite	SteelSc3MatSc	1904 J. Shorerer	W. Robertson	175-2(28-1)(10-0)	Glasgow	British	1000	18°25'40"-27"	10N14	12 x 9	12,000		
6853	692 Kyarra	SteelTwinScR	1903 W. Denny	Australasian United	415-5(52-2)(28-0)	Premantle	British	1000	125°27'30" (142°)	10N14	12 x 9	12,000		
4996	693 Kybfels	SteelScR	1904 J.C. Teck-	Deutsche Dampfs-	400-0(52-2)(20-2)	Bremen	German	1000	24°34'50" (724°)	10N14	12 x 9	12,000		

Appendix E: Report of Wreckage Picked up SS Kyanite, Mar 20 1906

**ATHEN (s).**—*Boston, Linc.*, March 20, 3 53 p.m.—Steamer **Kyanite**, of Glasgow, arrived this afternoon from Liverpool, landed two boats, one marked "Athen, Hamburg No. 3," other "No. 4," without name, which she picked up in the English Channel.—[See issue of March 19.]

**ATHEN (s).**—*Cardiff*, March 20.—Northwaite (s), from Hamburg, arrived here, reports:—On March 18, from 3 30 to 4 p.m., steamed in amongst a quantity of wreckage, such as ladders, hatches, oars, lifebelts, wooden clogs, meat safe, settee, polished wood cabinet and bookshelf, and other articles, all pertaining to the wreck of some craft, apparently by collision. Stopped and picked up a lifebuoy, painted white, with the name painted in black letters, "Athen, Hamburg" on it. Shambles lightvessel bore NE by N  $\frac{1}{2}$  N, distance seven to nine miles.—[See Athen (s) in issue of March 19.]

**Appendix F: Report of Ashore at the Lizard Cornwall, 24 June 1915****Appendix G: UC Class Mine laying U-Boat 1917**

**Appendix H: Reported Sinking of SS Kyanite, Feb 15 1917**

**EIGHT VESSELS SUNK.**

The following vessels have been sunk:—  
**BRITISH.**  
 Hopemoor (3,740) ..... London.  
 Longscar (2,777) ..... West Hartlepool.  
 Greenland (1,765) ..... Liverpool.  
 Afton (1,156) ..... Glasgow.  
**Kyanite (564) ..... Glasgow.**  
 Belvoir Castle (221) (trawler) Grimsby.  
 Mary Bell (144) (trawler) ..... Granton.  
 Percy Roy (sailing).  
 Statistics show that the average entry of vessels into French ports from the 4th to the 10th inst. was 92 daily. These figures prove that the Germans have not succeeded in establishing an effective blockade.

**Appendix I: Lloyd’s Casualty Listing 1917, SS Kyanite**

**LLOYD’S REGISTER OF SHIPPING.**

RETURNS OF VESSELS TOTALLY LOST, CONDEMNED, &C.

1ST JANUARY TO 31ST MARCH, 1917.

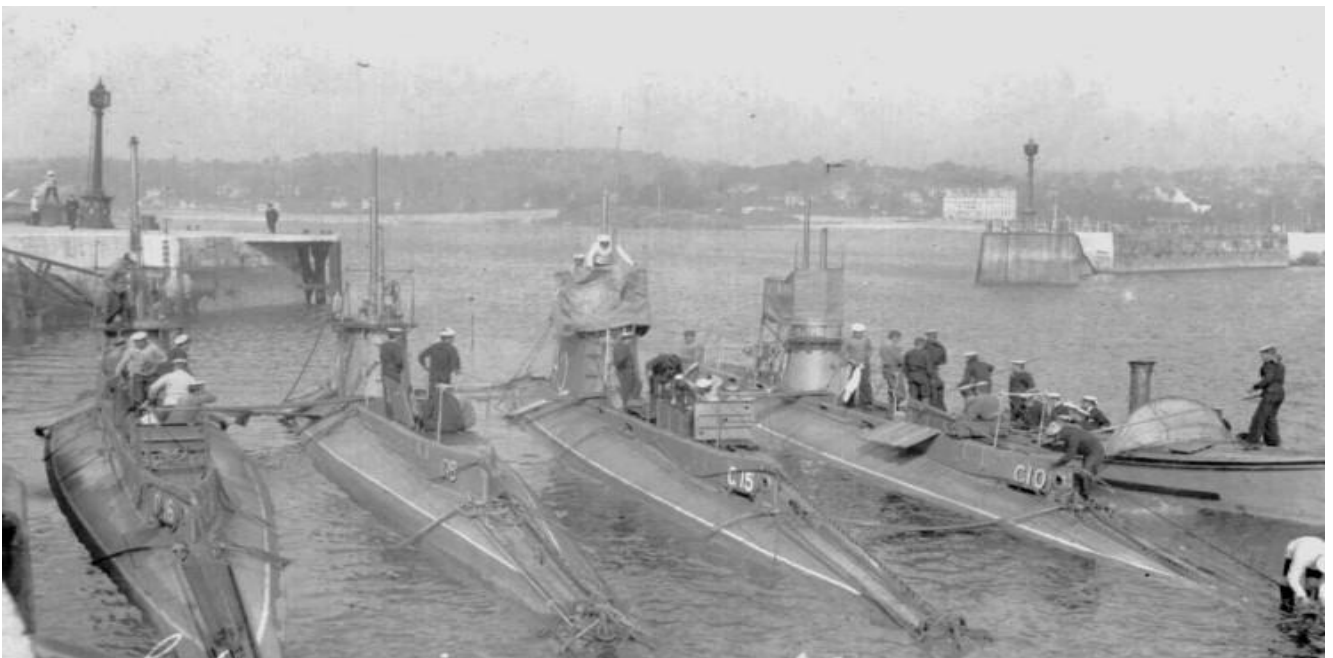
(i.) War Losses—continued.

No. in Reg. Book. 1916-17.	Vessel's Name.	Tons.		Nationality.	Description.	No. in Reg. Book. 1916-17.	Vessel's Name.	Tons.		Nationality.	Description.
		Net.	Gross.					Net.	Gross.		
5	F. D. Lambert.....	1321	2195	U.K.	Stl. Sc.	552	Ivernia .....	916	14278	U.K.	Stl. Tw. Sc.
37	Fairearn .....	261	592	U.K.	Stl. Sc.	70	Jacamar .....	128	293	U.K.	Stl. Sc.
2	Falcon .....	1332	2243	U.K.	Stl. Sc.	71	Jacatra .....	3425	5373	U.K.	Stl. Sc.
Sup. 175	Fenai Lodge .....	2075	3223	U.K.	Stl. Sc.	160	Japanese Prince .....	3079	4876	U.K.	Stl. Sc.
26	Ferga .....	315	791	U.K.	Stl. Sc.	267	Jevington .....	1739	2747	U.K.	Stl. Sc.
Sup. 362	Floridian .....	2997	4777	U.K.	Stl. Sc.	364	John Miles.....	342	687	U.K.	Stl. Sc.
24	Folia .....	4211	6705	U.K.	Stl. Tw. Sc.	439	Joshua Nicholson .....	1196	1853	U.K.	I Sc.
Sup. 432	Foreland .....	1134	1960	U.K.	Stl. Sc.	265	Katherine .....	1891	2926	U.K.	Stl. Sc.
634	French Prince.....	3129	4766	U.K.	Stl. Sc.	273	Kathleen Lily .....	317	521	U.K.	W. Sc.
680	Frimaire .....	1119	1778	U.K.	Stl. Sc.	337	Kelvinhead .....	1946	3063	U.K.	Stl. Sc.
682	Frinton .....	2707	4194	U.K.	Stl. Sc.	397	Kestrel .....	74	181	U.K.	I. Sc.
710	Frolic .....	79	183	U.K.	I. Sc.	485	Kincardine .....	2568	4108	U.K.	Stl. Sc.
73	Gafsa .....	2462	3974	U.K.	Stl. Sc.	491	King Alfred .....	66	159	U.K.	Stl. Sc.
Sup. 53	Galatia .....	63	150	U.K.	I. Sc.	986	Kyamite .....	224	564	U.K.	Stl. Sc.
114	Garfield .....	2442	3838	U.K.	Stl. Sc.	107	Laconia .....	11226	8099	U.K.	Stl. Tw. Sc.
255	Geo. E. Benson .....	60	155	U.K.	Stl. Sc.	113	Lady Ann .....	630	1016	U.K.	I. Sc.
296	Georgian .....	3318	5088	U.K.	Stl. Sc.	149	Lady Olive .....	296	701	U.K.	Stl. Sc.
352	Ghazee .....	3220	5084	U.K.	Stl. Sc.	303	Laurentic.....	9255	14892	U.K.	Stl. Trp. Sc.
437	Gladys .....	106	275	U.K.	Stl. Sc.	364	Ledbury.....	1951	3046	U.K.	Stl. Sc.

## Appendix J: C-15 at Sea



## Appendix K: C Class British Submarines



From left to right; HMS C-16, HMS C-18, HMS C-15 and HMS C-10 at Torquay, England.

## Appendix L: Location of UC-65 Wreckage, English Channel

