

U-Boats – World War I

Researched and Written by: Capt (N) (Ret'd) M. Braham

Edited by: Julia Beingessner

Introduction

Today when one speaks of the “U-Boat War” they are usually referring to the Battle of the Atlantic of World War II and of the depredations and destruction caused by the submariners of the Nazi *Kriegsmarine*.

It may, therefore, come as a surprise to learn that the U-Boat campaign of Kaiser Wilhelm’s Imperial navy during World War I very nearly spelled the economic collapse of the Allied war effort.

This paper will trace the growth of the German U-Boat fleet in World War I, of its most successful commanders, and its eventual demise.

Early Days

At the beginning of the war in August 1914, Germany had about 20 operational U-boats in its High Seas Fleet, commanded by Korvettenkapitän Hermann Bauer as Commander of U-boats (*Führer der Unterseeboote, FdU*). Their forward base was the fortified island of Heligoland, and as soon as hostilities with Russia started, they were deployed in a defensive screen in the North Sea.

Two days after Great Britain’s declaration of war on Germany, five U-Boats were dispatched to attack the British Grand Fleet at anchor in Scapa Flow. This early foray met with disastrous results. Two had to return to base with mechanical problems; one disappeared without a trace; U-15 was rammed and sunk by the cruiser HMS *Birmingham*; the remaining submarine managed to penetrate Scapa Flow but achieved nothing.



U-15

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On 5th September 1914, the U-boat first showed its deadly potential. With the first live torpedo fired by a submarine in wartime, Kptlt. Otto Hersing from *U-21* hit the British light cruiser HMS *Pathfinder* (3,000 tons) off the Firth of Forth on a calm, sunlit day. The cruiser sank within minutes with heavy loss of life. Hersing, who was to become one of Germany's leading U-boat aces, remained in command of *U-21* for 3 years and conducted 21 war patrols, during which he sank 36 ships, including two battleships and two cruisers.



Otto Weddigen

This striking first success of the submarine in war time history was eclipsed on 22nd September 1914, when *U-9* (Kptlt. Otto Weddigen) sank the three cruisers HMS *Aboukir*, *Hogue* and *Cressy* (12,000 tons each) off the Hook of Holland in a 75 minute time-span.

1,460 British sailors died in this demonstration of the U-boat's terrible capabilities.

October 1914 proved to be another successful month for the Kaiser's U-Boats. On the 11th *U-26* sank the Russian cruiser *Pallada* (7,900 tons) in the Gulf of Finland and again in *U-9*, Weddigen sank the light cruiser HMS *Hawke* (7,000 tons). For his performance, Otto Weddigen was awarded the Pour le Mérite, the highest German decoration for valour at that time. An important but unspectacular event took place on 20 October 1914 just off southern Norway, when *U-17* (Kptlt. Feldkirchner) sank the British steamer SS *Glitra* (866 tons). This was the first time that a submarine had sunk a merchant vessel and presaged the future when merchantmen would become the prime targets of the submarine.

By November 1914 it became clear that the war would be one of commerce with the opponents trying to strangle each other's economies to force a surrender. The British had already installed a distant blockade of Germany, a method which had proven its worth in the Napoleonic wars. Realizing the economic dimension of the war, Admiral Hugo von Pohl, the German High Seas Fleet Chief of Staff, advocated a counter-blockade of Britain by U-boat.

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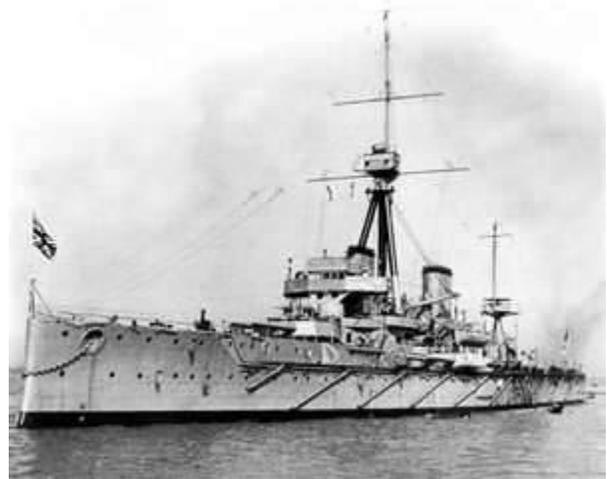
By the end of 1914, U-boats had sunk eight warships and ten merchant vessels (20,000 tons) at the loss of 5 U-boats.

Escalation

1915 was opened by *U-24* (KptLt. Schneider) when she sank the old battleship HMS *Formidable* (15,000 tons) in the English Channel on New Year's Day.

In February 1915 the seas around the British Isles were declared a war zone by the German government and any ship found there on or after 18th February faced sinking without warning. For the first time in history unrestricted U-boat warfare was declared. A neutral flag was not considered a guarantee for safety.

The famous battleship HMS *Dreadnought*, which never fired a shot in anger, was able to deliver blow to Germany's submarines on 18 March 1915, when it rammed and sank the newly commissioned *U-29*, commanded by the famous ace Kptlt. Otto Weddigen. The death of Germany's most famous submariner and his crew was a boost of morale for the British.



HMS Dreadnought

The U-Boat offensive against merchant ships was growing and by the end of April the U-boats had sunk 39 vessels against a loss of three U-boats.



One of the iconic incidents of the First World War occurred on 7 May 1915, when *U-20* (Kptlt. Walther Schwieger) sank the RMS *Lusitania* (30,000 tons) south of Ireland with a single torpedo. The liner sank within 18 minutes with the loss of nearly 1,200 lives, including 128 Americans.

Walther Schwieger

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In August 1915, the sinkings by German U-boats (185,800 tons) bypassed the monthly building rates in British shipyards. On 19 August 1915, *U-24* (Kptlt. Rudolf Schneider) sank RMS *Arabic* (15,800 tons) with one torpedo, mistaking it for a troop transport. The liner sank in 10 minutes with 44 casualties, among them 3 Americans. Again sharp American protests followed.

The possibility of confusing passenger ships with other ships led to the withdrawal of U-Boats from British waters on 20th September 1915. The focus of the U-boat campaign shifted to the Mediterranean with plenty of targets and virtually no Americans present.

By the end of 1915, about 855,000 tons of Allied shipping had been lost, with 20 U-boats sunk. 94 ships were lost to mines laid by German mine laying "UC"-class U-boats operating under the command of the Flanders Flotilla (Commodore Andreas Michelsen) from the Belgian ports Brügge and Zeebrügge.



UC-7

In 1915, Britain was in desperate need for a countermeasure against the U-boat. Sound detection gear and depth charges were still in their infancy, and the only means to sink a submarine were either by gunfire or by ramming. The problem was to lure the U-boat to the surface. A solution to this problem was the creation of the Q-Ship. This "U-Boot-Falle" (U-boat trap) was a merchant ship with hidden guns and torpedoes. The idea was to lure

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the U-boat to attack the Q-Ship with its deck gun at close range at which time the masquerade would end - the White Ensign would be hoisted and the U-boat would be engaged with gunfire.

The ruse proved successful for the first time on 24 July 1915, when *U-36* became the first U-boat to be sunk by a Q-Ship (HMS *Prince Charles* commanded by Lieutenant Mark Wardlaw, RN).



Once the Germans learned about the Q-Ships, U-boat skippers tended to be more careful and frequently the U-boat escaped or even sank its attacker.

At the beginning of 1915, *U-21* (Kptlt. Otto Hersing) was sent to the Dardanelles to assist the Turks. On 25 May 1915 *U-21* sank the battleship HMS *Triumph* and two days later he sank the battleship, HMS *Majestic*. For his achievements, Hersing was awarded the Pour le mérite.

Otto Hersing

At the end of 1915 command of *U-35* was assumed by Kptlt. Lothar von Arnauld de la Periere, who was to become the most successful U-boat commander of all time. During his wartime career, he fired only four torpedoes (one miss) and sank his victims (194 ships, totalling 454,000 tons) with his boat's 88 mm deck gun.

For his achievements the Prussian aristocrat, Arnauld, was awarded the Pour le mérite. After the war Arnauld served in the Turkish Navy in the 1930's and from 1939 again in the German Navy. He died during an aircraft accident near Paris, France in 1941.

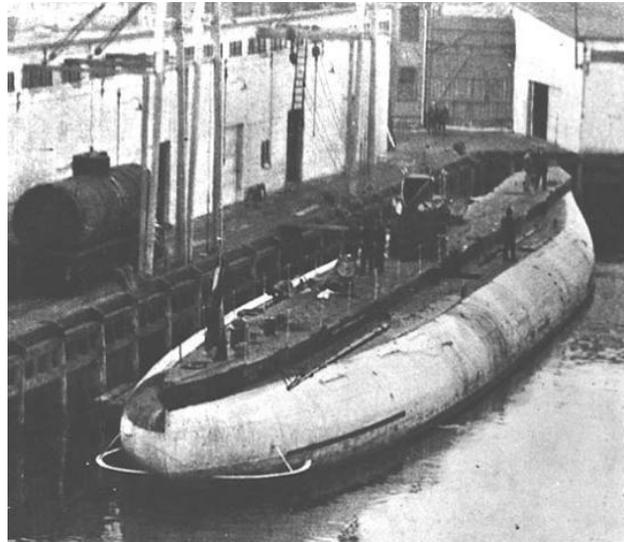


**Lothar von Arnauld
de la Periere**

June 1916 saw another submarine first - the debut of the first submarine for civilian use. The unarmed submarine freighter *Deutschland*, skippered by Merchant Navy Captain Paul König, left Bremen and safely reached America in July with cargo. In August the freighter returned to Germany unharmed.

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After the declaration of unrestricted U-boat warfare in 1917, merchant submarines were no longer needed and so the *Deutschland* was commissioned as *U-155* in the Imperial Navy.



Deutschland docked in New London, 1916

In October 1916, the U-boats returned to British waters where they sank 337,000 tons during this month, followed by 961,000 tons of shipping sunk between November 1916 and January 1917.

In February 1917, the German Admiral Staff was able to convince the Chancellor Bethmann-Hollweg to declare unrestricted U-boat warfare. Immediately the sinking tonnage rose.

Despite the ferocity of the U-Boat campaign, atrocities were rare. The worst happened on 27 June, 1918, when *U-86* (Oblt.z.S. Helmut Patzig), sank the hospital ship *LLandoverly Castle*. On top of that, he ordered his U-boat to ram the life boats and shoot at the survivors. Of a crew of 258 of the *LLandoverly Castle* only 24 survived. For this war crime, Patzig and his watch officers were tried after the war before a German court at Leipzig and were condemned to four years imprisonment.

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U-86

Such callous actions were not restricted to the German side however. On 19 August 1915, *U-27* (Kptlt. Wegener) was sunk by the Q-Ship *HMS Baralong* (Lieutenant Godfrey Herbert, RN). Herbert allegedly ordered that all German survivors, among them the commander of *U-27*, be executed on the spot. No charges were ever laid for this war crime. The *Baralong* was also accused of deliberately running over a lifeboat after sinking *U-41*.

The U-boat successes increased steadily in March (560,000 tons) and in April 1917, when the USA finally declared war on Germany, reached its peak with 860,000 tons. In May, however, tonnage dropped to 616,000 tons, because the British Admiralty introduced the convoy system. Although sinkings in June increased again to 696,000 tons, the declining numbers of July (555,000 tons) foreshadowed the final outcome. It was the convoy system, which finally rendered the unrestricted campaign unsuccessful and led to the defeat of the Germany U-Boat offensive.

The introduction of long-range cruiser submarines in 1917 allowed the Imperial Navy to extend its U-Boat operations to the American coast where it enjoyed a brief period of success. In their brief operational career, the six operational cruiser submarines sank 174 ships of 361,000 tons. *U-139* commanded by Lothar von Arnaud was one of these cruiser submarines.



U-139

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The End

The German retreat on the Western Front in 1918 had an effect on the U-boats. In October they had to abandon their bases in Belgium and the Adriatic. Despite the enforcement of a massive U-boat building program, the odds could not be turned in Germany's favour. On 21 October 1918, when Germany had already asked for an armistice, Admiral Reinhard Scheer, the Commanding Admiral of the High Seas Fleet, called off the unrestricted U-Boat campaign.

The U-boat war ended as it had begun in 1914 - with a bold but futile move. *U-116* (Oblt.z.S. Emsmann) with a volunteer crew of 34 officers penetrated Scapa Flow on 28 October to attack the Grand Fleet, but the boat was detected by hydrophones and sunk by mines with the loss of all hands.

In November 1918, *U-135* (Kptlt. Johannes Spiess) was ordered to take actions against ships of his own navy. Together with the 4th Torpedo boat Half-Flotilla, *U-135* ended a mutiny aboard two German battleships (*SMS Thüringen* and *SMS Helgoland*) with the threat of torpedoing the ships.



SMS Helgoland

The mission of *U-135*, however, was the last U-boat action of the war. From late November 1918 until April 1919, according to the armistice conditions,

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the 176 remaining operational U-boats were handed over to Britain and interned in Harwich.

Summary

The Imperial German Navy started the war with 28 U-boats and an additional 344 were commissioned during the war. In November 1918 no less than 226 boats were still under construction.

By the end of WWI, 372 U-boats of 33 separate classes belonging to 6 general types had been commissioned. The status of all U-Boats may be found at Annex A. Comparative descriptions of some of the classes of U-Boat are at Annex B.

178 U-boats were lost, with over 5,000 officers and men killed - a fatality rate of over one third.

More than 12,000,000 tons of Allied shipping (5,708 ships) was sunk by U-boats, with the loss of 15,000 lives.

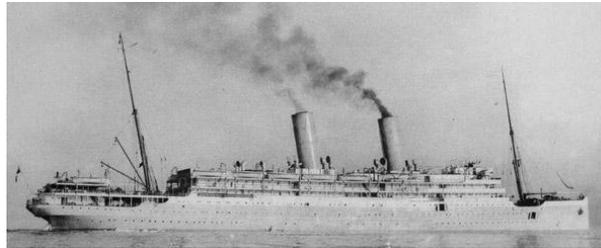
By comparison, the Kriegsmarine of World War II possessed 1153 U-Boats of which 785 were lost and 30,000 submariners lost their lives. Interestingly, the World War II U-Boats sank fewer allied ships (3,300) than did their World War I counterparts, although the overall tonnage sunk (14,500,000) was greater.

The greatest single loss of life to a U-Boat in World War I was 1,750 lost when the Italian troopship *Principe Umberto* was sunk by the Austrian *U-5* on 8 June 1916.

The largest loss of life in a warship sunk by a U-Boat in World War I was 684 in the French cruiser, *Leon Gambetta* also sunk by *U-5* on 27 April 1915.

The largest Canadian ship lost to U-Boats in World War I was the *Royal Edward* owned by the Canadian Northern Steamship Company. She was sunk by *UB-14* on 13 August 1915 in the Aegean Sea while transporting British troops. 866 lives were lost.

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HMT Royal Edward

The U-Boats of World War I met similar fates to their World War II counterparts but in considerably different percentages. Perhaps not surprisingly, the aeroplane had virtually no impact on the anti-U-Boat campaign. Only a handful of German U-Boat sinkings were credited to allied aircraft in the First World War. On the other hand, mines caused a huge toll on World War I U-Boats whereas they only had a limited impact on World War II U-Boat operations.

Of interest is that 17 U-Boats were destroyed by torpedoes from British submarines, (plus one by a French submarine) the first instances of submarines successfully destroying enemy submersibles. In all cases the sunken U-Boats were on the surface when struck. It should be noted that German U-Boats exacted a similar toll on their British and French submarine opponents.

The most successful U-Boat Commanders of World War I were:

Lothar von Arnauld de la Periere	454,000 tons
Walther Forstmann	380,000 tons
Max Valentiner	300,000 tons
Otto Steinbrinck	290,000 tons
Hans Rose	214,000 tons
Waldemar Kophamel	190,000 tons
Walther Schwieger	190,000 tons

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Lothar von Arnauld de la Periere remains the most successful submarine commander of all times.

In the course of 17 patrols under four Commanding Officers, U-35 sank 223 ships of 535,700 gross tons which makes her the most destructive submarine in history.

A small but curious point emerging from the summaries at Annex A is the variance in manning within the various classes of U-Boat, sometimes by as many as 7 persons. Space is limited aboard a submarine and everyone has an assigned task. It is difficult to see where the apparently extra persons were accommodated and what their roles were.

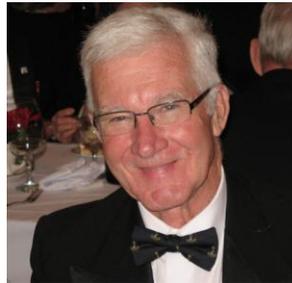
The U-boat had successfully demonstrated its deadly potential during World War I and had proven to be a decisive weapon of war, a capability that was repeated with terrible destructiveness in World War II.

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Captain (N) (Ret'd) M. Braham, CD



Mike Braham is a graduate of the Royal Military College (1965) and a former naval officer and senior official with DND. He has an abiding interest in military history.

ANNEX A

U-Boat History Summaries – World War I

U-Boat	Type	Victories	Fate	Date	Comments
U-1	U-1	None	Stricken	19 Feb 19	
U-2	U-2	None	Stricken	19 Feb 19	
U-3	U-3	None	Surrendered	1 Dec 18	Sank en route to be broken up
U-4	U-3	None	Stricken	27 Jan 19	
U-5	U-5	None	Sunk by mine	18 Dec 14	All hands lost (29)
U-6	U-5	16 ships sunk, 9,614 tons	Torpedoed by HMS/M E16	19 Sep 15	24 dead, 5 survivors
U-7	U-5	None	Torpedoed in error by U-22	21 Jan 15	24 dead, 1 survivor
U-8	U-5	5 ships sunk, 15,049 tons	Trapped in nets and forced to surface. Scuttled	4 Mar 15	Ship's company rescued by HMS Ghurka and HMS Maori
U-9	U-9	14 ships sunk, 9,715 tons. 4 warships sunk, 43,350 tons	Surrendered	26 Nov 18	Sank the cruisers HMS Aboukir, Hogue and Cressy in less than an hour.
U-10	U-9	7 ships sunk, 1,751 tons.	Sunk by mine	30 Jun 16	All hands lost (29)
U-11	U-9	None	Sunk by mine	9 Dec 14	All hands lost (26)
U-12	U-9	1 ship sunk, 1,005 tons. 1 warship sunk, 810 tons	Rammed by destroyer and scuttled	10 Mar 15	20 dead, 10 survivors
U-13	U-13	None	Sunk by mine	12 Aug 14	All hands lost (25)
U-14	U-13	2 ships sunk, 3,907 tons	Sunk by gunfire from armed trawler Oceanic.	5 Jun 15	1 dead, 27 survivors
U-15	U-13	None	Rammed and sunk by HMS Birmingham	9 Aug 14	All hands lost (25)
U-16	U-16	11 ships sunk, 11,630 tons.	Sunk in accident en route to surrender	8 Feb 19	
U-17	U-17	11 ships sunk, 15,122 tons.	Stricken	27 Jan 19.	First U-Boat to sink a merchant ship.
U-18	U-17	None	Rammed and sunk by HMS Garry	23 Nov 14	1 dead, 22 survivors
U-19	U-19	57 ships sunk, 97,853 tons.	Surrendered	24 Nov 18	.
U-20	U-19	37 ships sunk, 145,830 tons	Grounded and blown up by crew.	4 Nov 16	On 7 May 15 sank the RMS Lusitania.
U-21	U-19	36 ships sunk, 79,005 tons. 4 warships sunk, 34,575 tons	Sank in accident en route to surrender	22 Feb 1919	On 5 Sep 14 sank cruiser HMS Pathfinder, the first warship sunk by a U-Boat in WW I. Sank the Battleships HMS Majestic and HMS Triumph.
U-22	U-19	43 ships sunk, 43,570 tons.	Surrendered	1 Dec 18	
U-23	U-23	7 ships sunk, 8,222 tons	Torpedoed and sunk by HM S/M C27	20 Jul 15	24 dead, 10 survivors.
U-24	U-23	34 ships sunk, 106,103 tons. 1 warship sunk,	Surrendered	22 Nov 18	Sank the Battleship HMS Formidable.

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		15,000 tons			
U-25	U-23	21 ships sunk, 14,125 tons	Surrendered	23 Feb 19	
U-26	U-23	3 ships sunk, 3,700 tons. 2 warships sunk, 11,375 tons	Lost due to unknown causes in the Baltic	30 Sep 15	All hands lost (30)
U-27	U-27	10 ships sunk, 31,120 tons. 2 warships sunk, 6,235 tons	Sunk by gunfire by Q Ship Baralong	19 Aug 15	All survivors ordered executed by Captain of Baralong.
U-28	U-27	40 ships sunk, 90,175 tons.	Sunk by explosion of merchant ship being fired upon by U-28	2 Sep 17	All hands lost (39)
U-29	U-27	4 ships sunk, 12,934 tons	Rammed and sunk by HMS Dreadnought	18 Mar 15	All hands lost (32)
U-30	U-27	47 ships sunk, 47,060 tons	Surrendered	22 Nov 18	
U-31	U-31	None	Sunk possibly by mine	13 Jan 15	All hands lost (31)
U-32	U-31	37 ships sunk, 107,304 tons. 1 warship sunk, 14,000 tons	Shelled and depth charged by HMS Wildflower	8 May 18	All hands lost (18). Sank the Battleship HMS Cornwallis
U-33	U-31	84 ships sunk, 194,131 tons.	Surrendered	16 Jan 19	
U-34	U-31	119 ships sunk, 257,652 tons	Depth charged by HMS Privet	9 Nov 14	All hands lost (38)
U-35	U-31	223 ships sunk, 535,700 tons.	Surrendered	26 Nov 18	
U-36	U-31	14 ships sunk, 12,674 tons.	Sunk by gunfire from Q-Ship Prince Charles	24 Jul 15	18 dead. First U-Boat sunk by a Q-Ship
U-37	U-31	2 ships sunk, 2,811 tons	Sunk by mine	30 Apr 15	All hands lost (32)
U-38	U-31	138 ships sunk, 292,444 tons. 1 warship sunk, 680 tons.	Surrendered	22 Feb 19	
U-39	U-31	153 ships sunk, 405,135 tons. 1 warship sunk, 1,290 tons.	Interned in Spain after being damaged by Allied ships and aircraft.	11 May 18	
U-40	U-31	None	Torpedoed by HM S/M C24	23 Jun 15	29 dead
U-41	U-31	28 ships sunk, 58,248 tons.	Sunk by gunfire from Q-Ship Baralong	24 Sep 15	35 dead 2 survivors. Baralong accused of running over a lifeboat full of survivors.
U-43	U-43	45 ships sunk, 114,323 tons.	Surrendered	20 Nov 18	
U-44	U-43	22 ships sunk, 72,542 tons.	Rammed by HMS Oracle	12 Aug 17	All hands lost (44)

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U-45	U-43	27 ships sunk, 47,286 tons	Torpedoed by HM S/M D7	12 Sep 17	43 dead, 2 survivors.
U-46	U-43	52 ships sunk, 140,314 tons	Surrendered to Japan	26 Nov 18	
U-47	U-43	14 ships, 23,931 tons.	Scuttled	28 Oct 18	
U-48	U-43	34 ships sunk, 104,558 tons.	Scuttled after gunfire exchange with British gunboat	24 Nov 17	19 dead, 17 survivors
U-49	U-43	38 ships, 36,820 tons.	Rammed and sunk by gunfire from SS British Transport	11 Sep 17	All hands lost (43)
U-50	U-43	27 ships sunk, 92,924 tons	Sunk by mine	31 Aug 17	All hands lost (44)
U-51	U-51	None	Torpedoed by HM S/M H5	14 Jul 16	34 dead, 4 survivors
U-52	U-51	30 ships sunk, 70,856 tons. 2 warships sunk, 18,150 tons	Surrendered	21 Nov 18	Broken up. Sank the French Battleship Suffren
U-53	U-51	87 ships sunk, 224,314 tons. 1 warship sunk, 1,050 tons.	Surrendered	1 Dec 18	
U-54	U-51	26 ships sunk, 66,961 tons. 1 warship sunk, 1,290 tons	Surrendered to Italy	24 Nov 18	
U-55	U-51	64 ships sunk, 133,742 tons.	Surrendered to Japan	26 Nov 18	
U-56	U-51	5 ships sunk, 5,701 tons	Missing	3 Nov 16	All hands lost (35)
U-57	U-57	55 ships sunk, 91,462 tons. 1 warship sunk, 1,250 tons	Surrendered to France	24 Nov 18	
U-58	U-57	21 ships sunk, 30,906 tons	Depth charged by USS Fanning	17 Nov 17	2 dead.
U-59	U-57	14 ships sunk, 28,050 tons	Struck a mine	14 May 17	33 dead, 4 survivors
U-60	U-57	2 ships sunk, 107,640 tons	Surrendered	21 Nov 18	
U-61	U-57	33 ships sunk, 84,564 tons. 1 warship sunk, 1,020 tons	Depth charged by PC 51	26 Mar 18	All hands lost (36)
U-62	U-57	47 ships sunk, 147,294 tons. 1 warship sunk, 9,517 tons.	Surrendered	22 Nov 18	Sank the French Armoured Cruiser Dupetit-Thouars
U-63	U-63	72 ships sunk, 192, 168 tons. 1 warship sunk, 5,250 tons	Surrendered	16 Jan 19	Sank the light cruiser HMS Falmouth
U-64	U-63	45 ships sunk, 129,569	Depth charged by HMS Lychnis	17 Jun 18	38 dead, 5 survivors. Sank the French

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		tons. 1 warship sunk, 18,300 tons			Battleship Danton.
U-65	U-63	48 ships sunk, 48,774 tons.	Scuttled	28 Oct 18	
U-66	U-66	24 ships sunk, 68,962 tons.	Struck a mine	3 Sep 17	All hands lost (40)
U-67	U-66	17 ships sunk, 39,694 tons.	Surrendered	20 Nov 18	
U-68	U-66	None	Sunk by gunfire from Q-Ship Farnborough	22 Mar 16	All hands lost (38)
U-69	U-66	31 ships sunk, 102,875 tons	Lost at sea	11 Jul 17	All hands lost (40)
U-70	U-66	53 ships sunk, 137,774 tons. 1 warship sunk, 1,290 tons	Surrendered	20 Nov 18	
U-71	UE-1	18 ships sunk, 15,273 tons. 1 warship sunk, 750 tons	Surrendered	23 Feb 19	
U-72	UE-1	21 ships sunk, 38,596 tons	Scuttled	1 Nov 18	
U-73	UE-1	18 ships sunk, 87,449 tons. 3 warships sunk, 28,750 tons	Scuttled	30 Oct 18	Sank the Battleship HMS Russell
U-74	UE-1	1 ship sunk, 2,802 tons	Sunk by a mine	17 May 16	All hands lost (34)
U-75	UE-1	11 ships sunk, 18,347 tons. 1 warship sunk, 10,850 tons	Sunk by a mine	13 Dec 17	23 dead. Sank the Armoured Cruiser HMS Hampshire with Lord Kitchener on board.
U-76	UE-1	2 ships sunk, 1,149 tons	Sunk in heavy weather after collision with Russian trawler	22 Jan 17	1 dead
U-77	UE-1	None	Sunk by a mine	7 Jul 16	All hands lost (33)
U-78	UE-1	17 ships sunk, 27,488 tons	Torpedoed by HM S/M G2	27 Oct 18	All hands lost (40)
U-79	UE-1	22 ships sunk, 34,479 tons. 1 warship sunk, 14,300 tons	Surrendered	21 Nov 18	Sank the Armoured Cruiser HMS Drake
U-80	UE-1	25 ships sunk, 48,880 tons	Surrendered	16 Jan 19	
U-81	U-81	30 ships sunk, 88,483 tons	Torpedoed by HM S/M E54	1 May 17	24 dead
U-82	U-81	36 ships sunk, 110,160 tons	Surrendered	16 Jan 19	
U-83	U-81	6 ships sunk, 6,450 tons	Sunk by gunfire from Q-Ship Farnborough	17 Feb 17	35 dead, 1 survivor
U-84	U-81	28 ships sunk, 83,127 tons	Rammed and depth charged by PC 62	26 Jan 18	All hands lost (40)
U-85	U-81	4 ships sunk, 20,225 tons	Foundered	7 Mar 17	All hands lost (38)

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U-86	U-81	33 ships sunk, 119,197 tons	Surrendered	20 Nov 18	
U-87	U-87	22 ships sunk, 59,828 tons	Rammed and depth charged by HMS Buttercup	25 Dec 17	All hands lost (44)
U-88	U-87	12 ships sunk, 39,382 tons	Struck a mine	5 Sep 17	All hands lost (43)
U-89	U-87	4 ships sunk, 8,496 tons	Rammed by HMS Roxburgh	12 Feb 18	All hands lost (43)
U-90	U-87	30 ships sunk, 74,175 tons	Surrendered	20 Nov 18	
U-91	U-87	37 ships sunk, 87,119 tons	Surrendered	26 Nov 18	
U-92	U-87	5 ships sunk, 15,961 tons	Struck a mine	9 Sep 18	All hands lost (42)
U-93	U-93	34 ships sunk, 87,872 tons	Missing	15 Jan 18	All hands lost (43)
U-94	U-93	31 ships sunk, 61,881 tons	Surrendered	20 Nov 18	
U-95	U-93	14 ships sunk, 38,014 tons	Sunk by unknown causes	16 Jan 18	All hands lost (36)
U-96	U-93	31 ships sunk, 95,253 tons	Surrendered	20 Nov 18	
U-97	U-93	4 ships sunk, 2,089 tons	Sunk in accident en route to surrender	21 Nov 18	
U-98	U-93	3 ships sunk, 1,799 tons	Surrendered	16 Jan 19	
U-99	U-57	None	Torpedoed by HM S/M J2	7 Jul 17	All hands lost (40)
U-100	U-57	9 ships sunk, 30,480 tons	Surrendered	27 Nov 18	
U-101	U-57	23 ships sunk, 26,253 tons	Surrendered	21 Nov 18	
U-102	U-57	4 ships sunk, 9,140 tons	Struck a mine	30 Sep 18	All hands lost (42)
U-103	U-57	8 ships sunk, 15,847 tons	Rammed by RMS Olympic	12 May 18	10 dead
U-104	U-57	8 ships sunk, 10,975 tons	Depth charged by HMS Jessamine	25 Apr 18	41 dead, 1 survivor
U-105	U-93	19 ships sunk, 55,834 tons	Surrendered	20 Nov 18	
U-106	U-93	1 warship sunk, 957 tons	Struck a mine	7 Oct 17	All hands lost (41)
U-107	U-93	6 ships sunk, 24,663 tons	Surrendered	20 Nov 18	
U-108	U-93	1 ship sunk, 7,484 tons	Surrendered	20 Nov 18	
U-109	U-93	None	Struck a mine	26 Jan 18	All hands lost (43)
U-110	U-93	10 ships sunk, 26,963 tons	Depth charged by HMS Michael and HMS Moresby	15 Mar 18	39 dead
U-111	U-93	3 ships sunk, 3,011 tons	Surrendered	20 Nov 18	
U-112	U-93	None	Surrendered	22 Nov 18	
U-113	U-93	4 ships sunk, 6,648 tons	Surrendered	20 Nov 18	
U-114	U-93	None	Surrendered	26 Nov 18	
U-117	UE-2	20 ships sunk, 27,459 tons	Surrendered	21 Nov 18	
U-118	UE-2	2 ships sunk, 10,439 tons	Surrendered	23 Feb 19	

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U-119	UE-2	None	Surrendered	20 Nov 18	
U-120	UE-2	None	Surrendered	22 Nov 18	
U-122	UE-2	1 ship sunk, 278 tons	Surrendered	26 Nov 18	
U-123	UE-2	None	Surrendered	22 Nov 18	
U-124	UE-2	None	Surrendered	1 Dec 18	
U-125	UE-2	None	Surrendered	26 Nov 18	
U-126	UE-2	None	Surrendered	22 Nov 18	
U-135	Large Ms	None	Surrendered	20 Nov 18	
U-136	Large Ms	None	Surrendered	23 Feb 19	
U-137	Large Ms	None	Unknown		
U-138	Large Ms	None	Unknown		
U-139	U-139	4 ships sunk, 6,788 tons	Surrendered	24 Nov 18	
U-140	U-139	7 ships sunk, 30,594 tons	Surrendered	22 Feb 19	
U-141	U-139	None	Surrendered	26 Nov 18	
U-142	U-142	None	Decommissioned on completion	10 Nov 18	
U-151	U-151	34 ships sunk, 88,395 tons	Surrendered	22 Nov 18	
U-152	U-151	19 ships sunk, 37,905 tons	Surrendered	24 Nov 18	
U-153	U-151	4 ships sunk, 12,742 tons	Surrendered	24 Nov 18	
U-154	U-151	5 ships sunk, 8,132 tons	Torpedoed by HM S/M E35	11 May 18	All hands lost (77)
U-155	U-151	43 ships sunk, 120,434 tons	Surrendered	24 Nov 18	Formerly the Merchant U-Boat Deutschland
U-156	U-151	44 ships sunk, 50,471 tons. 1 warship sunk, 13,680 tons	Sunk by mine.	25 Sep 18	All hands lost (77). Sank the Armoured Cruiser USS San Diego.
U-157	U-151	15 ships sunk, 15,905 tons	Surrendered	11 Nov 18	
U-160	U-93	None	Surrendered	20 Nov 18	
U-161	U-93	None	Surrendered	20 Nov 18	
U-162	U-93	None	Surrendered	20 Nov 18	
U-163	U-93	None	Surrendered	23 Nov 18	
U-164	U-93	None	Surrendered	22 Nov 18	
U-165	U-93	None	Surrendered	18 Nov 18	
U-166	U-93	None	Surrendered	21 Mar 19	
U-167	U-93	None	Surrendered	18 Apr 19	
Coastal UB Boats					

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UB-1	UB-1	1 warship, 120 tons	Struck a mine	9 Jul 18	
UB-2	UB-1	11 ships sunk, 1,374 tons	Stricken	19 Feb 19	
UB-3	UB-1	None	Lost. Cause unknown	23 May 15	All hands lost (15)
UB-4	UB-1	4 ships sunk, 10,942 tons	Sunk by gunfire from Q-Ship Inverlyon	15 Aug 15	All hands lost (15)
UB-5	UB-1	5 ships sunk, 996 tons	Stricken	19 Feb 19	
UB-6	UB-1	14 ships sunk, 5,896 tons. 1 warship sunk, 335 tons	Sunk while interned in France	18 Mar 17	
UB-7	UB-1	4 ships sunk, 6,283 tons	Lost. Cause unknown	27 Sep 16	All hands lost (15)
UB-8	UB-1	1 ship sunk, 19,380 tons	Surrendered	25 Feb 19	
UB-9	UB-1	None	Stricken	19 Feb 19	
UB-10	UB-1	36 ships sunk, 22,604 tons	Scuttled	5 Oct 18	
UB-11	UB-1	None	Stricken	19 Feb 19	
UB-12	UB-1	22 ships sunk, 10,239 tons. 1 warship sunk, 995 tons.	Lost at sea.	19 Aug 18	All hands lost (19)
UB-13	UB-1	11 ships sunk, 17,665 tons.	Struck a mine	24 Apr 16	All hands lost (16)
UB-14	UB-1	5 ships sunk, 14,335 tons. 1 warship sunk, 10,118 tons	Surrendered	25 Nov 18	Sank the Italian Armoured Cruiser Amalfi and the largest Canadian ship lost, HMT Royal Edward.
UB-15	UB-1	Sank 1 warship, 245 tons	Transferred to Austro-Hungarian Navy	18 Jun 15	
UB-16	UB-1	24 ships sunk, 18,421 tons. 1 warship sunk, 1,075 tons	Torpedoed by HM S/M E34	10 May 18	15 dead, 1 survivor.
UB-17	UB-1	13 ships sunk, 2,189 tons	Lost at sea	15 Mar 18	All hands lost (18)
UB-18	UB-II	128 ships sunk, 131,546 tons	Rammed by the trawler Ben Lawer	9 Dec 17	All hands lost (24)
UB-19	UB-II	14 ships sunk, 11,590 tons	Sunk by gunfire from Q-Ship Penshurst	30 Nov 16	8 dead, 16 survivors
UB-20	UB-II	13 ships sunk, 10,076 tons	Struck a mine while on diving trial	28 Jul 17	All hands lost (13)
UB-21	UB-II	33 ships sunk, 36,764 tons	Surrendered	24 Nov 18	
UB-22	UB-II	27 ships sunk, 16,645 tons	Struck a mine	19 Jan 18	All hands lost (22)
UB-23	UB-II	51 ships sunk, 33,871 tons	Interned in Spain after being depth charged by HMS PC-60	29 Jul 17	
UB-24	UB-II	None	Surrendered	24 Nov 18	
UB-25	UB-II	None	Surrendered	26 Nov 18	Commanded by Karl Donitz, Feb-Aug 18
UB-26	UB-II	None	Scuttled after becoming tangled in	5 Apr 16	Re-commissioned by the French as the

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			A/S Nets		Roland Morrilot
UB-27	UB-II	11 ships sunk, 18,091 tons	Rammed by HMS Halcyon	29 Jul 17	All hands lost (22)
UB-28	UB-II	None	Surrendered	24 Nov 18	
UB-29	UB-II	36 ships sunk, 47,107 tons	Depth charged by HMS Landrail	13 Dec 16	All hands lost (22)
UB-30	UB-II	18 ships sunk, 19,650 tons	Depth charged	13 Aug 18	All hands lost (26)
UB-31	UB-II	26 ships sunk, 72,675 tons	Struck a mine	2 May 18	All hands lost (26)
UB-32	UB-II	22 ships sunk, 42,893 tons	Bombed by RNAS aircraft	22 Sep 17	All hands lost (24)
UB-33	UB-II	13 ships sunk, 5,379 tons	Struck a mine	11 Apr 18	All hands lost (28)
UB-34	UB-II	31 ships sunk, 39,496 tons	Surrendered	26 Nov 18	
UB-35	UB-II	42 ships sunk, 47,739 tons	Depth charged by HMS Leven	26 Jan 18	All hands lost (28)
UB-36	UB-II	7 ships sunk, 1,584 tons	Struck a mine	9 May 17	All hands lost (23)
UB-37	UB-II	31 ships sunk, 20,504 tons	Sunk by gunfire from Q-Ship Penschurst	14 Jan 17	All hands lost (21)
UB-38	UB-II	47 ships sunk, 47,476 tons	Struck a mine	8 Feb 18	All hands lost (27)
UB-39	UB-II	93 ships sunk, 89,998 tons	Struck a mine	7 May 17	All hands lost (24)
UB-40	UB-II	99 ships sunk, 134,067 tons	Scuttled	5 Oct 18	
UB-41	UB-II	8 ships sunk, 8,387 tons	Struck a mine	5 Oct 17	All hands lost (24)
UB-42	UB-II	11 ships sunk, 11,075 tons	Surrendered	16 Nov 18	
UB-43	UB-II	22 ships sunk, 99,176 tons	Surrendered	6 Nov 18	
UB-44	UB-II	1 ship sunk, 3,409 tons	Disappeared in Aegean Sea	4 Aug 16	All hands lost (24)
UB-45	UB-II	4 ships sunk, 15,361 tons	Struck a mine	6 Nov 16	15 dead, 5 survivors
UB-46	UB-II	4 ships sunk, 8,099 tons	Struck a mine	7 Dec 16	All hands lost (20)
UB-47	UB-II	20 ships sunk, 76,195 tons. 2 warships sunk, 11,450 tons	Surrendered	1920	Sank the French Battleship Gaullois
UB-48	UB-III	36 ships sunk, 110,056 tons.	Scuttled	28 Oct 18	
UB-49	UB-III	40 ships sunk, 72,860 tons	Surrendered	16 Jan 19	
UB-50	UB-III	39 ships sunk, 98,106 tons. 1 warship sunk, 16,350 tons	Surrendered	16 Jan 19	Sank the British Battleship HMS Britannia two days before the armistice.
UB-51	UB-III	19 ships sunk, 47,791 tons	Surrendered	16 Jan 19	
UB-52	UB-III	12 ships sunk, 41,411 tons	Torpedoed by HM S/M H4	23 May 18	32 dead, 2 survivors
UB-53	UB-III	14 ships sunk, 16,586 tons	Struck a mine	3 Aug 18	10 dead
UB-54	UB-III	14 ships sunk, 7,200 tons	Missing at sea	1 Mar 18	All hands lost (29)
UB-55	UB-III	21 ships sunk, 26,598 tons	Mined	22 Apr 18	23 dead, 6 survivors

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UB-56	UB-III	4 ships sunk, 5,387 tons	Mined	19 Dec 17	All hands lost (37)
UB-57	UB-III	47 ships sunk, 129,173 tons	Mined	14 Aug 18	All hands lost (34)
UB-58	UB-III	8 ships sunk, 8,198 tons	Mined	10 Mar 18	All hands lost (35)
UB-59	UB-III	6 ships sunk, 7,336 tons	Scuttled	5 Oct 18	
UB-60	UB-III	None	Surrendered	26 Nov 18	
UB-61	UB-III	2 ships sunk, 12,920 tons	Mined	24 Nov 17	All hands lost (34)
UB-62	UB-III	8 ships sunk, 17,226 tons	Surrendered	21 Nov 18	
UB-63	UB-III	2 ships sunk, 4,481 tons	Lost at sea	14 Jan 18	All hands lost (34)
UB-64	UB-III	29 ships sunk, 33,740 tons	Surrendered	21 Nov 18	
UB-65	UB-III	6 ships sunk, 6,197 tons. 1 warship sunk, 1,290 tons	Lost at sea in an accident	14 Jul 18	All hands lost (37)
UB-66	UB-III	2 ships sunk, 4,105 tons	Missing at sea	18 Jan 18	All hands lost (30)
UB-67	UB-III	1 ship sunk, 13,936 tons. 1 warship sunk, 810 tons	Surrendered	24 Nov 18	
UB-68	UB-III	5 ships sunk, 10,709 tons	Shelled and sunk	4 Oct 18	1 dead, 33 survivors. Commanded by Karl Donitz when sunk.
UB-69	UB-III	None	Depth charged	9 Jan 18	All hands lost (31)
UB-70	UB-III	1 ship sunk, 1,794 tons	Lost at sea	5 May 18	All hands lost (33)
UB-71	UB-III	None	Depth charged by ML 413	21 Apr 18	All hands lost (32)
UB-72	UB-III	5 ships sunk, 10,551 tons	Torpedoed by HM S/M D4	12 May 18	All hands lost (34)
UB-73	UB-III	9 ships sunk, 19,301 tons	Surrendered	21 Nov 18	
UB-74	UB-III	7 ships sunk, 13,294 tons	Depth charged by patrol yacht Lorna	26 May 18	All hands lost (35)
UB-75	UB-III	6 ships sunk, 10,777 tons	Mined	10 Dec 17	All hands lost (34)
UB-76	UB-III	None	Surrendered	12 Feb 19	
UB-77	UB-III	1 ship sunk, 14,348 tons	Surrender	16 Jan 19	Sank the British troopship Tuscania
UB-78	UB-III	2 ships sunk, 1,241 tons	Mined	19 Apr 18	All hands lost (35)
UB-79	UB-III	None	Surrendered	26 Nov 18	
UB-80	UB-III	20 ships sunk, 35,478 tons	Surrendered	26 Nov 18	
UB-81	UB-III	1 ship sunk, 3,218 tons	Mined	2 Dec 17	29 dead, 6 survivors
UB-82	UB-III	None	Depth charged	17 Apr 18	All hands lost (32)
UB-83	UB-III	1 ship, 634 tons	Depth charged by HMS Ophelia	10 Sep 18	All hands lost (37)
UB-84	UB-III	None	Surrendered	26 Nov 18	
UB-85	UB-III	None	Abandoned under gunfire	30 Apr 18	34 survivors
UB-86	UB-III	4 ships sunk, 5,876 tons	Surrendered	24 Nov 18	

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UB-87	UB-III	3 ships sunk, 18,671 tons	Surrendered	20 Nov 18	
UB-88	UB-III	14 ships sunk, 31,076 tons	Surrendered	26 Nov 18	
UB-89	UB-III	2 ships sunk, 373 tons	Sunk in collision	21 Oct 18	7 dead
UB-90	UB-III	1 ship sunk, 3,575 tons	Torpedoed by HM S/M L12	16 Oct 18	All hands lost (38)
UB-91	UB-III	3 ships sunk, 13,487 tons. 1 warship sunk, 1,181 tons	Surrendered	21 Nov 18	
UB-92	UB-III	8 ships sunk, 17,189 tons	Surrendered	21 Nov 18	
UB-93	UB-III	None	Surrendered	21 Nov 18	
UB-94	UB-III	2 ships sunk, 3,261 tons	Surrendered	22 Nov 18	
UB-95	UB-III	1 ship sunk, 4,053 tons	Surrendered	21 Nov 18	
UB-96	UB-III	None	Surrendered	21 Nov 18	
UB-97	UB-III	None	Surrendered	21 Nov 18	
UB-98	UB-III	None	Surrendered	21 Nov 18	
UB-99	UB-III	None	Surrendered	26 Nov 18	
UB-100	UB-III	None	Surrendered	22 Nov 18	
UB-101	UB-III	None	Surrendered	26 Nov 18	
UB-102	UB-III	None	Surrendered	22 Nov 18	
UB-103	UB-III	15 ships sunk, 25,999 tons	Struck a mine	14 Aug 18	All hands lost (37)
UB-104	UB-III	11 ships sunk, 15,958 tons	Lost at sea	21 Sep 18	All hands lost (36)
UB-105	UB-III	24 ships sunk, 64,685 tons. 1 warship sunk, 1,290 tons	Surrendered	16 Jan 19	
UB-106	UB-III	None	Surrendered	26 Nov 18	
UB-107	UB-III	11 ships sunk, 26,207 tons	Lost at sea	4 Aug 18	All hands lost (38)
UB-108	UB-III	2 ships sunk, 2,655 tons	Struck a mine	2 Jul 18	All hands lost (36)
UB-109	UB-III	7 ships sunk, 14,092 tons	Struck a mine	29 Aug 18	28 dead, 8 survivors
UB-110	UB-III	1 ship sunk, 3,709 tons	Rammed by HMS Garry	19 Jul 18	13 dead
UB-111	UB-III	7 ships sunk, 694 tons	Surrendered	21 Nov 18	
UB-112	UB-III	11 ships sunk, 10,459 tons	Surrendered	24 Nov 18	
UB-113	UB-III	3 ships sunk, 4,013 tons	Lost at sea	14 Sep 18	All hands lost (39)
UB-114	UB-III	None	Surrendered	26 Nov 18	
UB-115	UB-III	1 ship sunk, 336 tons	Depth charged by HMS Ouse & HMS Star	29 Sep 18	All hands lost (39)
UB-116	UB-III	None	Struck a mine	28 Oct 18	All hands lost (36)
UB-117	UB-III	5 ships sunk, 9,342 tons	Surrendered	22 Nov 18	
UB-118	UB-III	4 ships sunk, 17,416 tons	Surrendered	20 Nov 18	

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UB-119	UB-III	None	Rammed by Steamer Green Island	5 May 18	All hands lost (34)
UB-120	UB-III	1 ship sunk, 145 tons	Surrendered	24 Nov 18	
UB-121	UB-III	None	Surrendered	24 Nov 18	
UB-122	UB-III	None	Surrendered	24 Nov 18	
UB-123	UB-III	1 ship sunk, 2,646 tons	Struck a mine	19 Oct 18	All hands lost (36)
UB-124	UB-III	1 ship sunk, 32,234 tons	Depth charged and scuttled	20 Jul 18	2 dead. Sank the British passenger liner Justicia
UB-125	UB-III	6 ships sunk, 13,307 tons	Surrendered	20 Nov 18	
UB-126	UB-III	2 ships sunk, 3,078 tons	Surrendered	24 Nov 18	
UB-127	UB-III	None	Struck a mine	30 Sep 18	All hands lost (34)
UB-128	UB-III	1 ship sunk, 7,418 tons	Surrendered	3 Feb 19	
UB-129	UB-III	2 ships sunk, 5,098 tons	Scuttled	31 Oct 18	
UB-130	UB-III	None	Surrendered	26 Nov 18	
UB-131	UB-III	None	Surrendered	24 Nov 18	
UB-132	UB-III	None	Surrendered	21 Nov 18	
UB-133	UB-III	None			
UB-136	UB-III	None			
UB-142	UB-III	None	Surrendered	22 Nov 18	
UB-143	UB-III	None	Surrendered	1 Dec 18	
UB-144	UB-III	None	Surrendered	27 Mar 19	
UB-145	UB-III	None	Surrendered	27 Mar 19	
UB-148	UB-III	None			
UB-149	UB-III	None			
UB-150	UB-III	None			
UB-154	UB-III	None			
UB-155	UB-III	None	Surrendered	9 Mar 19	
Coastal Minelayer UC Boats					
UC-1	UC-I	36 ships sunk, 55,869 tons.5 warships sunk, 3,067 tons	Struck a mine	19 Jul 17	All hands lost (17)
UC-2	UC-I	None	Sunk when her own mines detonated	30 Jun 15	All hands lost (15)
UC-3	UC-I	22 ships sunk, 30,592 tons	Struck a mine	27 May 16	All hands lost (18)

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UC-4	UC-I	35 ships sunk, 35,862 tons. 1 warship sunk, 6,136 tons	Scuttled	5 Oct 18	
UC-5	UC-I	29 ships sunk, 36,851 tons. 1 warship sunk, 380 tons	Ran aground and scuttled	27 Apr 16	
UC-6	UC-I	54 ships sunk, 63,419 tons. 1 warship sunk, 810 tons	Struck a mine	27 Sep 17	All hands lost (17)
UC-7	UC-I	31 ships sunk, 45,734 tons 1 warship sunk, 3,520 tons	Struck a mine	5 Jul 16	All hands lost (18). Sank the light cruiser HMS Arethusa
UC-8	UC-I	None	Ran aground and interned	5 Nov 15	
UC-9	UC-I	None	Lost at sea	20 Oct 15	All hands lost (15)
UC-10	UC-I	17 ships sunk, 30,669 tons 1 warship sunk, 335 tons	Torpedoed by HM S/M E54	21 Aug 16	All hands lost (18)
UC-11	UC-I	27 ships sunk, 33,708 tons. 2 warships sunk, 5,084 tons	Struck a mine	26 Jun 18	18 dead, 1 survivor
UC-12	UC-I	6 ships sunk, 3,289 tons	Sank when own mines detonated	16 Mar 16	All hands lost (15)
UC-13	UC-I	3 ships sunk, 387 tons	Ran aground and abandoned	29 Nov 15	
UC-14	UC-I	14 ships, 8,182 tons. 2 warships sunk, 14,107 tons	Struck a mine	3 Oct 17	All hands lost (17). Sank the Italian Battleship Regina Margherita (675 casualties)
UC 15	UC-1	2 ships sunk, 874 tons. 1 warship sunk, 350 tons	Lost at sea	30 Nov 16	All hands lost (15)
UC-16	UC-II	43 ships sunk, 43,915 tons	Struck a mine	4 Oct 17	All hands lost (27)
UC-17	UC-II	96 ships sunk, 144,423 tons 2 warships sunk, 2,731 tons	Surrendered	26 Nov 18	
UC-18	UC-II	34 ships sunk, 34,343 tons	Sunk by Q-Ship Lady Olive	19 Feb 17	All hands lost (28)
UC-19	UC-II	4 ships sunk, 3,784 tons	Depth charged by HMS Ariel	6 Dec 16	All hands lost (25)
UC-20	UC-II	21 ships sunk, 20,927 tons	Surrendered	16 Jan 19	
UC-21	UC-II	98 ships sunk, 133,955 tons	Lost at sea	30 Sep 17	All hands lost (27)
UC-22	UC-II	22 ships sunk, 41,352 tons 1 warship sunk, 414 tons	Surrendered	3 Feb 19	
UC-23	UC-II	45 ships sunk, 41,820 tons	Surrendered	25 Nov 18	
UC-24	UC-II	4 ships sunk, 9,815 tons	Torpedoed by French S/M Circe	24 May 17	24 dead
UC-25	UC-II	18 ships sunk, 17,127 tons 3 warships sunk, 2,201 tons	Scuttled	20 Oct 18	
UC-26	UC-II	37 ships sunk, 60,819 tons	Rammed by HMS Milne	8 May 17	24 dead, 2 survivors

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		2 warships sunk, 654 tons			
UC-27	UC-II	55 ships sunk, 75,470 tons 3 warships sunk, 830 tons	Surrendered	3 Feb 19	
UC-28	UC-II	None	Surrendered	12 Feb 19	
UC-29	UC-II	18 ships sunk, 21,909 tons	Sunk by Q-Ship Pargust	7 Jun 17	23 dead, 2 survivors
UC-30	UC-II	5 ships sunk, 5,687 tons	Struck a mine	21 Apr 17	All hands lost (27)
UC-31	UC-II	38 ships, 51,017 tons	Surrendered	26 Nov 18	
UC-32	UC-II	6 ships sunk, 9,083 tons	Sunk when own mines detonated	23 Feb 17	19 dead, 3 survivors
UC-33	UC-II	35 ships sunk, 20,625 tons 1 warship sunk, 370 tons	Rammed by PC 61	26 Sep 17	27 dead, 1 survivor
UC-34	UC-II	20 ships sunk, 65,335 tons 1 warship sunk, 785 tons	Scuttled	30 Oct 18	
UC-35	UC-II	47 ships sunk, 70,147 tons 1 warship sunk, 970 tons	Sunk by French Patrol Vessel Ailly	16 May 18	20 dead, 5 survivors
UC-36	UC-II	24 ships, 34,367 tons	Rammed by French Steamer Moliere	21 May 17	All hands lost (27)
UC-37	UC-II	66 ships sunk, 86,005 tons	Surrendered	25 Nov 18	
UC-38	UC-II	40 ships sunk, 53,000 tons 3 warships sunk, 9,308 tons	Depth charged by French destroyers	14 Dec 17	9 dead, 25 survivors
UC-39	UC-II	3 ships sunk, 5,150 tons	Depth charged by HMS Thrasher	8 Feb 17	8 dead
UC-40	UC-II	30 ships sunk, 42,847 tons	Sank en route to surrender	21 Jan 19	1 dead
UC-41	UC-II	18 ships sunk, 19,475 tons	Depth charged	21 Aug 17	All hands lost (27)
UC-42	UC-II	13 ships sunk, 9,654 tons	Own mines detonated	10 Sep 17	All hands lost (27)
UC-43	UC-II	13 ships sunk, 23,684 tons	Torpedoed by HM S/M G13	10 Mar 17	All hands lost (26)
UC-44	UC-II	28 ships sunk, 25,709 tons 1 warship sunk, 550 tons	Sunk by one of her own mines	4 Aug 17	28 dead, 1 survivor
UC-45	UC-II	12 ships sunk, 16,854 tons	Lost in a diving accident	17 Sep 17	All hands lost (35)
UC-46	UC-II	10 ships sunk, 10,621 tons	Rammed by HMS Liberty	8 Feb 17	All hands lost (23)
UC-47	UC-II	56 ships sunk, 71,850 tons 1 warship sunk, 880 tons	Rammed by Patrol Craft P57	18 Nov 17	All hands lost (28)
UC-48	UC-II	35 ships sunk, 67,817 tons	Interned in Spain after being depth charged	23 Mar 18	
UC-49	UC-II	25 ships sunk, 58,907 tons	Depth charged by HMS Opossum	8 Aug 18	All hands lost (31)
UC-50	UC-II	29 ships sunk, 42,871 tons	Lost at sea	7 Jan 18	All hands lost (29)
UC-51	UC-II	28 ships sunk, 31,829 tons	Struck a mine	17 Nov 17	All hands lost (29)
UC-52	UC-II	18 ships sunk, 18,230 tons	Surrendered	16 Jan 19	
UC-53	UC-II	48 ships sunk, 46,597 tons	Scuttled	28 Oct 18	

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UC-54	UC-II	17 ships sunk, 52,284 tons	Scuttled	28 Oct 18	
UC-55	UC-II	9 ships sunk, 12, 988 tons	Lost in a minelaying accident	29 Sep 17	10 dead
UC-56	UC-II	1 ships sunk, 6,824 tons	Interned in Spain	24 May 18	
UC-57	UC-II	5 ships sunk, 271 tons	Struck a mine	18 Nov 17	All hands lost (27)
UC-58	UC-II	24 ships sunk, 21,113 tons 1 warship sunk, 380 tons	Surrendered	24 Nov 18	
UC-59	UC-II	8 ships sunk, 5,121 tons	Surrendered	21 Nov 18	
UC-60	UC-II	1 ship sunk, 1,426 tons	Surrendered	23 Feb 19	
UC-61	UC-II	11 ships sunk, 13,831 tons 1 warship sunk, 7,578 tons	Stranded and scuttled	26 Jul 17	Sank the French Armoured Cruiser Kleber
UC-62	UC-II	12 ships sunk, 19,855 tons	Struck a mine	14 Oct 17	All hands lost (30)
UC-63	UC-II	36 ships sunk, 35,900 tons	Torpedoed by HM S/M E52	1 Nov 17	26 dead, 1 survivor
UC-64	UC-II	26 ships sunk, 20,506 tons	Struck a mine	20 Jun 18	All hands lost (30)
UC-65	UC-II	105 ships sunk, 116,218 tons. 1 warship sunk, 11,000 tons	Torpedoed by HM S/M C15	3 Nov 17	22 dead, 5 survivors. Sank the minelayer (converted cruiser) HMS Ariadne
UC-66	UC-II	31 ships sunk, 43,760 tons 2 warships sunk, 2,500 tons	Depth charged	12 Jun 17	All hands lost (23)
UC-67	UC-II	52 ships sunk, 93,283 tons 1 warship sunk, 834 tons	Surrendered	16 Jan 19	
UC-68	UC-II	1 ship sunk, 2,897 tons 1 warship sunk, 550 tons	Lost at sea	13 Mar 17	All hands lost (27)
UC-69	UC-II	54 ships sunk, 99,415 tons	Sank after collision with U-96	6 Dec 17	11 dead
UC-70	UC-II	34 ships sunk, 27,930 tons	Depth charged by HMS Ouse	28 Aug 18	All hands lost (31)
UC-71	UC-II	63 ships sunk, 110,750 tons	Sank en route to surrender	20 Feb 19	
UC-72	UC-II	41 ships sunk, 58,909 tons	Lost at sea	21 Aug 17	All hands lost (31)
UC-73	UC-II	16 ships sunk, 16,565 tons	Surrendered	6 Jan 19	
UC-74	UC-II	37 ships sunk, 92,722 tons	Interned in Spain	21 Nov 18	
UC-75	UC-II	56 ships sunk, 80,509 tons 2 warships sunk, 1,555 tons	Rammed by HMS Fairy	31 May 18	19 dead
UC-76	UC-II	15 ships sunk, 6,731 tons	Surrendered	1 Dec 18	
UC-77	UC-II	34 ships sunk, 50,743 tons	Struck a mine	14 Jul 18	All hands lost (30)
UC-78	UC-II	1 ship sunk, 350 tons	Rammed by steamer Queen Alexandra	9 May 18	All hands lost (29)
UC-79	UC-II	10 ships sunk, 12,241 tons	Struck a mine	5 Apr 18	All hands lost (30)

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UC-90	UC-III	None	Surrendered	1 Dec 18	
UC-91	UC-III	None	Sank en route to surrender	10 Feb 19	
UC-92	UC-III	None	Surrendered	24 Nov 18	
UC-93	UC-III	None	Surrendered	26 Nov 18	
UC-94	UC-III	None	Surrendered	26 Nov 18	
UC-95	UC-III	None	Surrendered	22 Nov 18	
UC-96	UC-III	None	Surrendered	24 Nov 18	
UC-97	UC-III	None	Surrendered	22 Nov 18	
UC-98	UC-III	None	Surrendered	24 Nov 18	
UC-99	UC-III	None	Surrendered	22 Nov 18	
U-100	UC-III	None	Surrendered	22 Nov 18	
U-101	UC-III	None	Surrendered	24 Nov 18	
U-102	UC-III	None	Surrendered	22 Nov 18	
U-103	UC-III	None	Surrendered	22 Nov 18	
U-104	UC-III	None	Surrendered	24 Nov 18	
U-104	UC-III	None	Surrendered	22 Nov 18	
UA Class					
UA	UA	None	Surrendered	24 Nov 18	
Austrian U-Boats					
k.u.k U-1	U-I	None	Not known		
k.u.k U-2	U-1	None	Not known		
k.u.k U-3	U-3	None	Not known		
k.u.k U-4	U-3	15 ships sunk, 15,450 tons 1 warship sunk, 7,234 tons	Not known		Sank the Italian Armoured Cruiser Guiseppe Garibaldi
k.u.k U-5	U-5	1 ship sunk, 7,929 tons 2 warships sunk, 12,641 tons	Not known		Sank the French Armoured Cruiser Leon Gambetta. 684 lives lost, the most by a U-boat sunk warship. Also sank the Italian troopship Principe Umberto with the loss of 1,750 lives, the most by any ship sunk by a WWI U-Boat.
k.u.k U-6	U-5	1 warship sunk, 765 tons	Not known		
k.u.k U-10	U-10	None	Not known		
k.u.k U-11	U-10	None	Not known		

U-Boats – World War I

k.u.k U-12	U-5	1 ship sunk, 1,065 tons	Not known		
k.u.k U-14	U-14	11 ships sunk, 46,753 tons	Not known		
k.u.k U-15	U-10	5 ships sunk, 8,044 tons 1 warship sunk, 745 tons	Not known		
k.u.k U-16	U-10	2 ships sunk, 355 tons	Not known		
k.u.k U-17	U-10	1 ship sunk, 680 tons	Not known		
k.u.k U-20	U-20	None	Not known		
k.u.k U-21	U-20	None	Not known		
k.u.k U-22	U-20	None	Not known		
k.u.k U-23	U-20	None	Not known		
k.u.k U-27	U-27	33 ships sunk, 14,386 tons. 1 warship sunk, 665 tons	Not known		
k.u.k U-28	U-27	10 ships sunk, 44,743 tons	Not known		
k.u.k U-29	U-27	3 ships sunk, 14,874 tons	Not known		
k.u.k U-30	U-27	None	Not known		
k.u.k U-31	U-27	1 ship sunk, 4,021 tons	Not known		
k.u.k U-32	U-27	4 ships sunk, 3,728 tons	Not known		
k.u.k U-40	U-27	2 ships sunk, 7,556 tons	Not known		
k.u.k U-41	U-27	1 ship sunk, 4,604 tons	Not known		
k.u.k U-43	U-43	None	Not known		
k.u.k U-47	U-43	2 ships sunk, 6,201 tons 1 warship sunk, 351 tons	Not known		

ANNEX B

Representative Classes of U-Boats – World War I

Before the end of WWI 375 U-boats of 33 separate classes belonging to 6 general types had been commissioned. The following are the descriptions of the most numerous classes from among the 6 types.

Gasoline Powered Boats

U-9



Four commissioned, built between 1908-1911

Displacement	493 tons (surface)	611 tons (submerged)
Length (oa)	57.38 metres	
Beam (oa)	6.00 metres	
Draught	3.15 metres	
Height	7.05 metres	
Power	1000 hp (surface)	1160 hp (submerged)
Speed	14.2 knots (surface)	8.1 knots (submerged)
Range	3300 @ 9 miles @ kts (surf.)	80@5 (submerged)
Torpedoes	6 - 2 bow/2 stern tubes	
Mines	None	
Deck Gun	105 mm/300 rounds	
Crew	35	
Max Depth	50 metres	

U-Boats – World War I

Ocean-Going Diesel Powered Torpedo Attack Boats

U-57

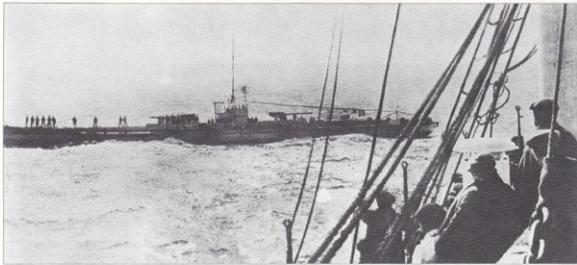
Twelve commissioned, built between 1914-1917

Displacement	786 tons (surface) 954 tons (submerged)
Length (oa)	67.00 metres
Beam (oa)	6.32 metres
Draught	3.79 metres
Height	8.05 metres
Power	1800 hp (surface) 1200 hp (submerged)
Speed	14.7 knots (surface) 8.4 knots (submerged)
Range	7730 @ 8 miles @ kts (surf.) 55@5 (submerged)
Torpedoes	6 - 2 bow/2 stern tubes
Mines	None
Deck Gun	88 mm/276 rounds
Crew	36
Max Depth	50 metres

U-Boats – World War I

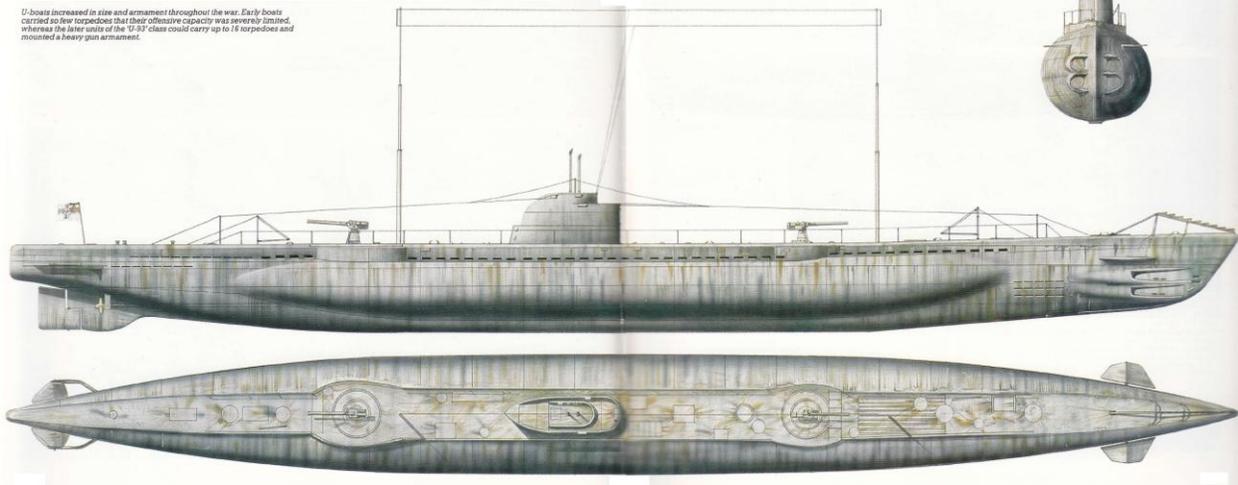
U-93

Unterseeboot U-160



By 1881 U-boats had evolved to a size and shape foreshadowing that of the boats that fought the second battle of the Atlantic during World War II. Displacing 880 tons surfaced and 1,000 tons submerged, the U-160 group was a logical development of the earlier U-boats. Like the U-87 class they were fitted with a heavy bow armament of six 500 mm (19.7 in) torpedoes tubes, and ended the war mounting 105 mm (4.1 in) and 88-mm (3.46-in) dual-purpose guns. Commerce raiding was hedged with a series of restrictions imposed by the Hague Convention to which both Great Britain and Germany were signatories; for submarines, these conditions posed very serious problems because of their vulnerability when surfaced. The convention was violated early in the war by the Royal Navy as well as by the Germans. Neutral opinion was split by the actions of both sides; the Germans achieving greater respectability only as their sink-on-sight policy gathered pace. The U-boats soon inflicted terrible damage on the Allied merchant marine; it is often forgotten that fatal damage was already being done before the Germans embarked on unrestricted submarine warfare. U-160 was not launched until February 1918 when the U-boats had been all but defeated, and secret in the German fleet would soon lead to mutiny.

U-boats increased in size and armament throughout the war. Early boats carried so few torpedoes that their offensive capacity was severely limited, whereas the later units of the U-87 class could carry up to 16 torpedoes and mounted a heavy gun armament.



Twenty four commissioned between 1915-1918

Displacement	838 tons (surface)	1000 tons (submerged)
Length (oa)	71.55 metres	
Beam (oa)	6.30 metres	
Draught	3.94 metres	
Height	8.25 metres	
Power	2400 hp (surface)	1200 hp (submerged)
Speed	16.8 knots (surface)	8.6 knots (submerged)
Range	9020@8 miles @ kts (surf.) 52@5 (submerged)	
Torpedoes	16 - 4 bow/2 stern tubes	
Mines	None	
Deck Gun	105 mm/140 rounds	
Crew	39	
Max Depth	50 metres	

U-Boats – World War I

U-Cruisers & Merchant U-Boats

U-151



Deutschland before becoming U-155

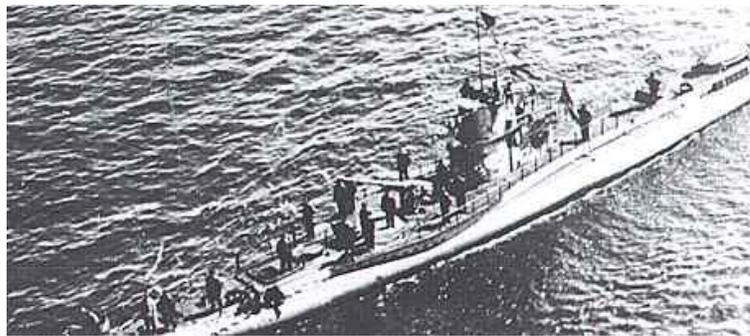
Seven commissioned between 1916-1917

Displacement	1512 tons (surface) 1875 tons (submerged)
Length (oa)	65.00 metres
Beam (oa)	8.90 metres
Draught	5.30 metres
Height	9.25 metres
Power	800 hp (surface) 800 hp (submerged)
Speed	12.4 knots (surface) 5.2 knots (submerged)
Range	25000@6 miles @ kts (surf.) 65@3 (submerged)
Torpedoes	18 - 2 bow/0 stern tubes
Mines	None
Deck Gun	2 x 105 mm/1672 rounds
Crew	56
Max Depth	50 metres

U-Boats – World War I

UB Coastal Attack Torpedo Boats

UB III



Ninety six commissioned between 1916-1918

Displacement	516 tons (surface)	615 tons (submerged)
Length (oa)	55.30 metres	
Beam (oa)	5.80 metres	
Draught	3.68 metres	
Height	8.25 metres	
Power	1100 hp (surface)	788 hp (submerged)
Speed	13.6 knots (surface)	8.0 knots (submerged)
Range	9040@6 miles @ kts (surf.) 55@4 (submerged)	
Torpedoes	10 - 4 bow/1 stern tubes	
Mines	None	
Deck Gun	88 mm/160 rounds	
Crew	34	
Max Depth	75 metres	

U-Boats – World War I

UC Coastal Minelayers

UC II



Sixty Four commissioned between 1915-1917

Displacement	417 tons (surface)	493 tons (submerged)
Length (oa)	49.35 metres	
Beam (oa)	5.22 metres	
Draught	3.68 metres	
Height	7.46 metres	
Power	500 hp (surface)	460 hp (submerged)
Speed	11.6 knots (surface)	7.0 knots (submerged)
Range	9430@7 miles @ kts (surf.) 55@4 (submerged)	
Torpedoes	7 - 2 bow/1 stern tubes	
Mines	18	
Deck Gun	88 mm/133 rounds	
Crew	26	
Max Depth	50 metres	

Judged only by the numbers of enemy vessels destroyed, the UC II is the most successful submarine design in history, they sank more than 1800 enemy vessels.

U-Boats – World War I

UE Ocean Minelayers

UE-2



U-117

Nine commissioned between 1916-1918

Displacement	1164 tons (surface) 1512 tons (submerged)
Length (oa)	81.52 metres
Beam (oa)	7.42 metres
Draught	4.22 metres
Height	10.16 metres
Power	12400 hp (surface) 1200 hp (submerged)
Speed	14.7 knots (surface) 7.0 knots (submerged)
Range	13,900@8 miles @ kts (surf.) 35@4.5 (submerged)
Torpedoes	14 - 4 bow/0 stern tubes
Mines	42
Deck Gun	150 mm/494 rounds
Crew	40
Max Depth	75 metres