

**The Maritime Archaeology of a Modern Conflict:**

**Comparing the Archaeology of German Submarine Wrecks to the Historical Text**

**Volume Two**

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## Appendices

## **Appendix 1.1 World War One U-Boats Which Might Have Been Lost in the Study Area**

This list is derived from research carried out during the production of this thesis. The list represents cases which remain unresolved where the U-boat was known to have been ordered to operate in or transit through the Channel. This list should not be considered definitive due to the unreliability of archival sources.

### ***UC19***

According to the 1919 List, this U-boat was sunk 4 December 1916 close to the Dover net barrage by HMS *Llewellyn* (NA ADM239/26). The Admiralty later conceded that the U-boat attacked was *UB18* (NA ADM275/13). *UC19* left base on 27 November to lay mines of Le Havre and then operate in the Channel (Messimer 2002, 256). Nothing is known of its movements. It is possible this is the wreck (*UC*) as discussed in Chapter 1.2.

### ***UB29***

According to the 1919 List, this U-boat was sunk 6 December 1916 in the Western Approaches by HMS *Ariel* (NA ADM239/26). It has now been shown that *UB29* sunk a ship the following day (Messimer 2002, 150). The alternative attack which could have sunk *UB29* took place on 13 December off the Dover net barrage when HMS *Landrail* surprised a U-boat on the surface and dropped depth-charges as it dived. If this attack was successful (which is far from certain) then it is possible that the wreck (*UB/UCII*) (see Chapter 1.2) could be *UB29*.

### ***UC18***

According to the 1919 List, this U-boat was sunk by HMS *Medea* on 12 March 1918 (NA ADM239/26). In fact the U-boat was already dead by that date. *UC18* sailed on 16 February for operations in the Channel (Messimer 2002, 255). It is possible that it was sunk off the Channel Isles in a fight with the Q-ship *Lady Olive* on 19 February, but the wreck remains to be located.

### ***UC68***

According to the 1919 List, this U-boat was sunk by the submarine HMS *C7* on 5 April 1917 (NA ADM239/26). In fact *UC68* could not have been present. It sailed for operations in the Channel on 10 March 1917 and its fate remains unexplained. Lowrey (2009) suggests that it may have been sunk by Q-ship *Privet* off the Eddystone Light and Messimer (2002, 306) suggests it blew up on its own mines off Start Point. Until a wreck is located its fate remains obscure.

### ***UB36***

The 1919 List simply lists this U-boat as sunk to unknown causes in July 1917 (NA ADM239/26). *UB36* sailed for the Channel on 9 May 1917 to operate of Brittany. It may have sunk a ship on the 21<sup>st</sup> and been subsequently rammed (Messimer 2002, 157), although this cannot currently be substantiated.

### ***UB32***

According to the 1919 List, this U-boat was sunk by a seaplane off Cherbourg on 18 August 1917 (NA ADM239/26). In fact *UB32* did not leave for its final patrol until 10 September 1917, when it was ordered into the Channel via Dover (Messimer 2002, 154). There is currently no explanation for the loss of this U-boat.

### ***UC72***

According to the 1919 List, this U-boat was sunk on 22 September 1917 in the southern North Sea by a seaplane (NA ADM239/26). In fact by that date *UC72* was already dead. The alternative fate suggested for this U-boat was that it was sunk by the Q-ship *Acton* on 20 August 1917 (Messimer 2002, 310) although at the time the engagement was considered inconclusive. No wreck has been found.

### ***UC21***

According to the 1919 List, this U-boat was sunk on 27 September 1917 in the mine nets north of the Dover Straits, just outside the Study Area (NA ADM239/26). The U-boat sailed on its last patrol on 13 September to operate in the Channel. Nothing is known of what happened to it (Messimer 2002, 258) and its wreck has not been located.

### ***UB18***

According to the 1919 List, this U-boat was sunk on 17 November 1917 by being mined. This thesis has shown it was *UC51* destroyed at this time (See Chapter 1.3). *UB18* actually sailed for the Channel on 1 December 1917 and did not return. Nothing is known of its movements after 4 December. It is possible it was rammed by the trawler *Ben Lawers* in the Western Approaches; the remote location explaining why the wreck has not been located.

### ***U109***

According to the 1919 List, this U-boat was mined in the Dover Barrage on 26 January 1918 (NA ADM239/26). *U109* left base on that date for operations in St. Georges Channel. The commander could choose the route to take and it is unknown whether he attempted to cross the minefield or go around Scotland (Messimer 2002, 120). Nothing else is known of the movements of this U-boat. It may be that it is the U-boat wreck currently named (*Submarine*) off Dover, but this far from certain.

### ***UC50***

According to the 1919 List, this U-boat was depth-charged in the eastern Channel by HMS *Zubian* on 4 February 1918 (NA ADM239/26). The depth-charges were dropped in the “swirl” where the U-boat dived and as seen in other cases (such as *UC19* above) it is unlikely they resulted in kills. The shallow waters where this incident occurred would almost certainly have yielded a wreck by now and they have not.

### ***UB54***

According to the 1919 List, this U-boat is listed as being sunk in the North Sea in March 1918 (NA ADM239/26). However, its patrol area has been shown by Spindler (1965, 65) to be the Channel and he suspected it had been mined. The Room 40 history sheet for this boat reveals that nothing was known of its movements after October 1917 (NA ADM137/3916). There is currently no explanation for its loss.

### ***UC78***

According to the 1919 List, this U-boat was mined in the Dover Barrage on 2 May 1918 (NA ADM239/26). There is no wreck which could be this U-boat in that area. *UC78* left for operations in the Channel on 2 May 1918 (Messimer 2002, 315). It seems that it laid its mines (see Chapter 1.1) and then disappeared. There is currently no certain explanation for its loss.

### ***UC77***

According to the 1919 List, this U-boat was sunk on 10 July 1918 in the southern North Sea (NA ADM239/26). In fact *UC77* didn't sail until the following day, when it left for the Channel. Nothing is known of its subsequent movements (Messimer 2002, 314). This could very likely be the unidentified UCII wreck located in an area of 1918 minefields off Flanders (Termote 1999, 129), but the wreck has not been positively identified.

### ***UB103***

According to the 1919 List *UB103* was mined in the Dover Barrage on 16 September 1918 NA ADM239/26). In fact *UB103* had sailed on 14 August and was most likely already dead. Nothing is known of the U-boat's movements but it is a very good candidate to be one of two unidentified late war UBIIIs on the Sandettie Bank (Termote 1999, 139-144) but the wreck has not been identified.

**Appendix 1.2 The 1919 List of the 37 U-Boat Losses in the Study Area  
During World War One (with corrections due to typographic errors)**

<b>CB01292G O.X.O.</b>	<b>Position</b>	<b>Date Sunk</b>	<b>Notes</b>
<b>U8</b>	50.56/01.15E	04/03/1915	
<b>UB26</b>	49.28/00.02E	05/04/1916	posn from Grant 1938
<b>UB19</b>	49.56/02.45W	30/11/1916	
<b>UC19</b>	51.08/01.40E	04/12/1916	
<b>UB37</b>	50.07/01.47W	14/01/1917	
<b>UC46</b>	51.07/01.39E	08/02/1917	
<b>U85</b>	49.52/03.20W	12/03/1917	
<b>UC26</b>	51.03/01.40E	09/05/1917	
<b>UB39</b>	50.05/01.25W	17/05/1917	
<b>UC66</b>	49.56/05.10W	12/06/1917	
<b>UC61</b>	50.53/01.37E	26/07/1917	posn from Grant 1938
<b>UB32</b>	49.58/01.38W	18/08/1917	
<b>UC16</b>	50.24/00.30W	23/10/1917	
<b>UC65</b>	50.28/00.17E	03/11/1917	
<b>UB18</b>	50.08/03.42W	17/11/1917	
<b>UB81</b>	50.27/00.53W	02/12/1917	
<b>UC69</b>	49.57/01.10W	06/12/1917	posn from Grant 2003/1971
<b>UB56</b>	50.58/01.28E	19/12/1917	
<b>U93</b>	49.55/05.12W	07/01/1918	earlier editions of CB01292 plot this incorrectly 49 59N
<b>U109</b>	50.53/01.31E	26/01/1918	
<b>UB35</b>	51.03/01.46E	26/01/1918	
<b>UC50</b>	50.47/00.59E	04/02/1918	
<b>UB38</b>	50.56/01.25E	08/02/1918	
<b>UB17</b>	50.00/02.25W	25/02/1918	
<b>UB58</b>	50.58/01.14E	10/03/1918	
<b>UB33</b>	50.56/01.17E	11/04/1918	
<b>UB55</b>	51.01/01.20E	22/04/1918	
<b>UB31</b>	51.01/01.16E	02/05/1918	
<b>UC78</b>	50.56/01.23E	02/05/1918	
<b>UB78</b>	49.50/01.40W	09/05/1918	
<b>U103</b>	49.16/04.51W	12/05/1918	
<b>UB72</b>	50.08/02.41W	12/05/1918	
<b>UB74</b>	50.32/02.32W	26/05/1918	
<b>UC64</b>	50.58/01.23E	20/06/1918	
<b>UC77</b>	51.01/01.19E	10/07/1918	

<b>UB109</b>	51.03/01.14E	29/08/1918	incorrectly listed at 01.44E
<b>UB103</b>	50.52/01.27E	16/09/1918	

*Table 2.1. The 1919 List as derived from the final edition of the "Submarines Losses Return" CB01292G O.X.O (NA ADM239/26) with notes showing where additional positional data was sourced and corrected typographic errors (Innes McCartney)*

## Appendix 1.3 The Identity and Location of World War One U-Boat Wrecks as Known When Initially Researched

Identity of site at start of Research	Wreck Name as of 2013 List	Actual Position	Original Posn Source	Hydrographic Office Wreck No.
<b>U37</b>	U37	51°14.3220'N,"001°52.1770'E"	Termote	13769
<b>UB109</b>	UB109	51°03.7330'N,"001°14.1330'E"	Dave Batchelor	13533
<b>UB31</b>	(UB31)	51°02.0670'N,"001°10.2170'E"	Dave Batchelor	13482
<b>UC26</b>	UC26	51°01.7400'N","001°41.2170'E"	Paul Oliver	13473
<b>UB55</b>	UB55	51°01.3160'N","001°19.7690'E"	Dave Batchelor	13460
<b>UB78</b>	UB78	51°01.0330'N,"001°16.4830'E"	Dave Batchelor	13449
<b>UB58</b>	UB58	51°00.1100'N,"001°18.5900'E"	Dave Batchelor	13407
<b>UC64</b>	UC64	50°58.5330'N,"001°23.2120'E"	Dave Batchelor	21141
<b>UB38</b>	UB38	50°57.8500'N,"001°21.6300'E"	Dave Batchelor	21138
<b>U8</b>	U8	50°56.0333'N,"001°15.0000'E"	Dave Batchelor	21102
<b>Submarine</b>	UB65	50°40.1070'N,"005°02.1230'W"	Gifford Pound	60256
<b>U-boat</b>	(U93)	50°36.9700'N,"001°21.8000'E"	Gifford Pound	20895
<b>UB74</b>	UB74	50°32.0260'N,"002°33.1320'W"	Hydrographic Office	18613
<b>UC65</b>	UC65	50°30.3920'N,"000°28.8080'E"	Tim Bonetto	20713
<b>UB81</b>	UB81	50°29.4420'N,"000°58.2510'W"	Hydrographic Office	19882
<b>UC49</b>	UC49	50°19.9520'N,"003°29.9720'W"	Hydrographic Office	18145
<b>U-boat</b>	(UC66)	50°14.5170'N,"006°19.8880'W"	Hydrographic Office	16154
<b>Submarine</b>	UB37	50°10.2430'N,"001°38.4420'W"	Grahame Knott	18865
<b>Submarine</b>	UC51	50°08.4030'N,"003°41.5330'W"	Bill Reid	18023
<b>Submarine</b>	UB72	50°06.6150'N,"002°50.6660'W"	Grahame Knott	18437
<b>U-boat</b>	(U95)	49°55.4820'N,"005°11.7010'W"	Gifford Pound	22507
<b>UB19</b>	UB19	49°52.7530'N,"002°47.3820'W"	Hydrographic Office	23355
<b>U-boat</b>	(WW1 Submarine)	49°44.7770'N,"004°47.2620'W"	Gifford Pound	22956
<b>UB33</b>	UB33	50°56.0300'N,"001°17.9800'E"	Dave Batchelor	58842
<b>UB56</b>	UB56	50°57.8100'N,"001°23.1000'E"	Dave Batchelor	21121
<b>UC</b>	(UC)	51°10.6000'N,"001°43.4700'E"	Bob Peacock	13715
<b>UB/UCII</b>	(UB/UCII)	51°07.6910'N,"001°46.6400'E"	Paul Oliver	14917
<b>UB35</b>	UB35	51°04.9630'N,"001°43.1530'E"	Michael Lowrey	13575
<b>UC46</b>	UC46	51°06.8600'N,"001°37.1500'E"	Dave Batchelor	13626
<b>(Submarine)</b>	Submarine	50°56.1130'N,"001°31.5520'E"	G Dowd	21238
<b>UC79</b>	UC79	50°54.9830'N,"001°34.4190'E"	Michael Lowrey	67498
<b>U103</b>	U103	49°15.4800'N,"004°51.4040'W"	Odyssey	22758

Table 2.2. The identity and location of World War One U-boat wrecks as known when initially researched (Innes McCartney)

**Appendix 1.4 The List of 35 World War One U-Boat Losses in the Study Area as Revised in 2013 as Result of Research Carried Out For This Thesis**

Wreck Name	Historically Accurate	Actual Position	Date Sunk	Historic grade of Attack at Posn of Wreck	Posn Source	Hydro Number
<b>U8</b>	Y	50°56.0333'N,"001°15.0000'E"	04/03/1915	A	Hydro office	21102
<b>U37</b>	N	51°14.3220'N,"001°52.1770'E"	Apr 1915	not listed	Hydro office	13769
<b>UB26</b>	Y	Salvaged	05/04/1916	A	ADM239/26	N/A
<b>UB19</b>	Y	49°52.7530'N,"002°47.3820'W"	30/11/1916	A	Hydro office	23355
<b>UB37</b>	Y	50°10.2430'N,"001°38.4420'W"	14/01/1917	A	Hydro office	18865
<b>UC46</b>	Y	51°06.8600'N,"001°37.1500'E"	08/02/1917	A	Hydro office	13626
<b>UC26</b>	Y	51°01.7400'N,"001°41.2170'E"	09/05/1917	A	Hydro office	13473
<b>(UC66)</b>	N	50°14.5170'N,"006°19.8880'W"	27/05/1917	-	Hydro office	16154
<b>UC61</b>	Y	Salvaged	26/07/1917	A	ADM239/26	N/A
<b>UC65</b>	Y	50°30.3920'N,"000°28.8080'E"	03/11/1917	A	Hydro office	20713
<b>UC51</b>	N	50°08.4030'N,"003°41.5330'W"	17/11/1917	A	Hydro office	18023
<b>UB81</b>	Y	50°29.4420'N,"000°58.2510'W"	02/12/1917	A	Hydro office	19882
<b>UC69</b>	Y	Unknown - sunk off Barfleur	06/12/1917	A	ADM239/26	N/A
<b>UB56</b>	Y	50°57.8100'N,"001°23.1000'E"	19/12/1917	B	Hydro office	21121
<b>(U95)</b>	N	49°55.4820'N,"005°11.7010'W"	07/01/1918	A	Hydro office	22507
<b>UB35</b>	Y	51°04.9630'N,"001°43.1530'E"	26/01/1918	A	Hydro office	13575
<b>(U93)</b>	N	50°36.9700'N,"001°21.8000'E"	Jan 1918	not listed	Hydro office	20895
<b>UB38</b>	Y	50°57.8500'N,"001°21.6300'E"	08/02/1918	B	Hydro office	21138
<b>UB58</b>	Y	51°00.1100'N,"001°18.5900'E"	10/03/1918	A	Hydro office	13407
<b>(UC79)</b>	N	50°54.9830'N,"001°34.4190'E"	Mar/Apr 1918	-	Hydro office	67498
<b>UB33</b>	Y	50°56.0300'N,"001°17.9800'E"	11/04/1918	A	Hydro office	58842
<b>UB78</b>	N	51°01.0330'N,"001°16.4830'E"	19/04/1918	-	Hydro office	13449
<b>UB55</b>	Y	51°01.3160'N,"001°19.7690'E"	21/04/1918	A	Hydro office	13460
<b>(UB31)</b>	Y	51°02.0670'N,"001°10.2170'E"	02/05/1918	B	Hydro office	13482
<b>U103</b>	Y	49°15.4800'N,"004°51.4040'W"	12/05/1918	A	Hydro office	22758
<b>UB72</b>	Y	50°06.6150'N,"002°50.6660'W"	12/05/1918	A	Hydro office	18437
<b>UB74</b>	Y	50°32.0260'N,"002°33.1320'W"	26/05/1918	A	Hydro office	18613
<b>UC64</b>	Y	50°58.5330'N,"001°23.2120'E"	20/06/1918	B	Hydro office	21141
<b>UB65</b>	N	50°40.1070'N,"005°02.1230'W"	Jul 1918	-	Hydro office	60256
<b>(UC49)</b>	N	50°19.9520'N,"003°29.9720'W"	08/08/1918	-	Hydro office	18145
<b>UB109</b>	Y	51°03.7330'N,"001°14.1330'E"	29/08/1918	A	Hydro office	13533
<b>(WW1 U-boat)</b>	N	49°44.7770'N,"004°47.2620'W"	unknown	-	Hydro office	22956
<b>(UC)</b>	N	51°10.6000'N,"001°43.4700'E"	unknown	-	Hydro office	13715
<b>(UB/UCII)</b>	N	51°07.6910'N,"001°46.6400'E"	unknown	-	Hydro office	14917
<b>(Submarine)</b>	N	50°56.1130'N,"001°31.5520'E"	unknown	-	Hydro office	21238

Table 2.3. The list of 36 World War One U-boat losses in the Study Area as revised in 2013 as result of research carried out for this thesis (Innes McCartney)

**Appendix 1.5 ASW Attacks During World War One in the Study Area  
as Derived From ASD and Admiralty Sources (as listed)**

<b>DATE</b>	<b>GRADE</b>			<b>DETAILS</b>
28/02/1915	<b>D</b>	50-36.4141'N	000-22.1891'E	SS Thordis ram
10/03/1915	<b>D</b>	51-02.7523'N	001-27.8098'E	Viking & Gurkha sweep
30/03/1915	<b>D</b>	50-17.2567'N	000-30.8146'E	Twaler Saint Jehanne fires at sub
19/06/1915	<b>D</b>	51-01.3451'N	001-11.4137'E	SS Starbeam ram
22/07/1915	<b>C</b>	50-03.0000'N	000-30.0000'E	SS Yungay collision
19/09/1915	<b>D</b>	49-37.0000'N	002-57.0000'W	Yacht Sayonara fired at submarine
30/10/1915	<b>B</b>	50-19.6585'N	002-26.2889'W	AMT Annie Melling Caught sub in sweep
24/01/1916	<b>D</b>	51-08.0000'N	001-47.0000'E	Yachts snagged submarine
01/04/1916	<b>D</b>	50-54.0000'N	001-10.0000'E	Drifters snagged something
18/06/1916	<b>D</b>	51-08.0000'N	001-31.0000'E	Drifters snag and attack
09/09/1916	<b>B</b>	50-02.0000'N	003-19.0000'W	HMS Lightfoot ram
09/09/1916	<b>D</b>	49-22.4331'N	006-27.9899'W	Q4 d/C - v poor posn
03/10/1916	<b>D</b>	49-48.6406'N	005-48.0502'W	AMT Fusilier fired
22/10/1916	<b>C</b>	51-04.0000'N	001-52.0000'E	u/w explosion of mines/nets
24/10/1916	<b>B</b>	49-43.4882'N	005-33.2787'W	Q17 attacks submarine
24/10/1916	<b>D</b>	49-37.6379'N	005-44.0188'W	SS Izaston shot at submarine
24/10/1916	<b>D</b>	49-34.1033'N	005-46.1751'W	HMS Camelion shot at submarine
26/10/1916	<b>D</b>	50-56.0000'N	006-20.0000'W	SS Fabian shoot-out with submarine
28/11/1916	<b>C</b>	50-20.1386'N	002-41.1960'W	Sarepta and Sailor King drifters shoot out with submarine
28/11/1916	<b>D</b>	50-37.0000'N	000-49.0000'W	Gavina shoots at submarine
30/11/1916	<b>A</b>	49-56.0000'N	002-45.0000'W	Q7 - Penshurst - sinks UB19
01/12/1916	<b>B</b>	49-23.0000'N	006-35.0000'W	Q11 fight with submarine
02/12/1916	<b>C</b>	49-46.0000'N	005-30.0000'W	Q9 fight with submarine
04/12/1916	<b>B TO A</b>	51-08.0000'N	001-40.0000'E	HMS Llewellyn missed ram but D/C dropped - oil seen.. Notes say upgraded to UC19 Known Sunk
06/12/1916	<b>D</b>	49-41.3506'N	006-33.8028'W	Foss & Newbridge shot at submarine
06/12/1916	<b>B TO A</b>	49-41.0000'N	006-30.0000'W	HMS Ariel sweep attack .. notes upgrade attack to UB29 Known Sunk
07/12/1916	<b>D</b>	50-10.0000'N	003-00.0000'W	Evening Star shots and D/C submarine
13/12/1916	<b>C</b>	51-09.0000'N	001-46.0000'E	HMS Landrail D/C submarine - oil seen
16/12/1916	<b>D</b>	50-33.0000'N	006-02.0000'W	HMS Achates paravane explodes
16/12/1916	<b>D</b>	50-32.0000'N	002-18.0000'W	TB82 D/C on minelayer
02/01/1917	<b>C</b>	49-19.0000'N	005-05.0000'W	Q8 fight with submarine

07/01/1917	D	49-50.9453'N	001-10.0659'W	trawler Sitvell fires at sub
12/01/1917	D	49-48.0000'N	002-25.0000'W	Q13 fight with submarine.. noted that german press said sub escaped
14/01/1917	A	50-07.0000'N	001-47.0000'W	Q7 - Penshurst - sinks UB37.
31/01/1917	D	50-12.9284'N	005-40.3623'W	Airship bomb
01/02/1917	D	50-41.0000'N	004-59.0000'W	HMS Orford fires at submarine
02/02/1917	C	50-53.1607'N	005-02.4790'W	HMT Rosetta fires on a submarine
05/02/1917	C	49-42.0000'N	000-07.0000'W	Mona's Queen rammed submarine
06/02/1917	C	50-28.3376'N	002-21.8965'W	TB86 D/C sub
06/02/1917	C	49-43.0000'N	000-18.0000'W	HMS Defender D/C sub
08/02/1917	A	51-07.0000'N	001-39.0000'E	HMS Liberty rammed UC46
11/02/1917	D	50-20.0000'N	000-35.0000'W	Stivel fires at sub
11/02/1917	D	49-42.7493'N	006-36.2404'W	HMTs fire on submarine
12/02/1917	D	49-57.0000'N	004-41.0000'W	Airship C22 bomb
12/02/1917	D	50-13.4156'N	005-31.7056'W	Airship bomb - odd posn given 5.5miles S 78deg E from Godrevy
16/02/1917	D	50-55.0000'N	004-40.0000'W	SS Princess fired at sub
17/02/1917	D	50-33.0118'N	005-11.8136'W	HMT Yokohama fires on sub
17/02/1917	D	50-17.0000'N	005-48.0000'W	ML361 fires on sub
19/02/1917	D	49-18.0000'N	006-31.0000'W	HMS Martin D/C
19/02/1917	B	49-15.0000'N	002-34.0000'W	Q18 fight with sub
20/02/1917	C	49-21.0000'N	006-16.0000'W	Q7 fight with sub.
20/02/1917	D	50-02.0000'N	005-20.0000'W	SS Aridne Alexandra rammed surfacing submarine forcing it under the keel. It rolled over. Posn given 7mile NW by N (mag) from Lizard..?
20/02/1917	D	50-15.0000'N	005-33.0000'W	SS Caperby rammed sub
26/02/1917	D	50-30.0000'N	000-00.0000'E	HMS Beaver D/C (Posn odd)
27/02/1917	D	50-16.0000'N	001-20.0000'W	SS Polzeath fires at sub
27/02/1917	D	49-47.0000'N	000-35.0000'W	HMS Forester D/C
27/02/1917	D	50-05.0000'N	000-35.0000'W	HMS P33 D/C
28/02/1917	C	50-28.1979'N	005-23.2991'W	HMT Yokohama sweep attack - posn given 11miles NW by N of St Agnes Head
28/02/1917	C	50-00.0000'N	000-15.0000'W	SS Hunscape fires on submarine
03/03/1917	D	50-27.0000'N	000-02.0000'E	MTB22 fire and D/C
03/03/1917	D	50-09.0000'N	000-41.0000'W	HMS Teviot D/C
04/03/1917	D	50-31.0000'N	001-06.0000'W	HM Trawler Vale of Leven fires on sub
12/03/1917	B TO A	49-49.8569'N	003-31.3585'W	Q19 fight with sub.. notes upgrade to Known Sunk U85
13/03/1917	D	50-15.1150'N	003-29.6179'W	u/w explosion
14/03/1917	D	50-14.0000'N	003-00.0000'W	SS Fallodon fired on sub
16/03/1917	D	50-03.9164'N	004-42.3366'W	Seaplane 8350 bombs sub
27/03/1917	D	50-22.0000'N	001-08.0000'W	HMT Rinto fires at sub

30/03/1917	<b>D</b>	50-28.0000'N	000-12.0000'W	Q7 fight with sub
09/04/1917	<b>D</b>	50-50.0000'N	001-25.0000'E	SS Neto attacked submarine
16/04/1917	<b>D</b>	50-55.0000'N	001-24.0000'E	SS City fights submarine
19/04/1917	<b>D</b>	50-30.0000'N	000-29.0000'W	HM Surprise & Linnet attack submerged target
19/04/1917	<b>D</b>	50-30.0000'N	000-32.0000'W	SS mongolia fires at periscope
20/04/1917	<b>C</b>	50-02.0000'N	002-33.0000'W	u/w explosion in nets
24/04/1917	<b>A</b>	50-17.0000'N	002-19.0000'W	Seaplane 8655 & HMS Ambuscade attacked submarine..
26/04/1917	<b>D</b>	50-18.0000'N	001-30.0000'W	Seablen 8655 attacks sub
27/04/1917	<b>D</b>	49-46.6984'N	005-48.4252'W	HM Lysander III fires at sub
30/04/1917	<b>D</b>	50-33.3696'N	002-46.2588'W	HM MLs D/C
01/05/1917	<b>C</b>	51-10.0000'N	001-31.0000'E	damaged mine nets
01/05/1917	<b>C</b>	50-23.0000'N	005-36.0000'W	HMS Contest D/C
01/05/1917	<b>D</b>	50-16.0000'N	000-50.0000'E	French seaplanes bomb target
02/05/1917	<b>C</b>	49-39.0000'N	000-34.0000'W	HMS P12 D/C
05/05/1917	<b>D</b>	49-52.3999'N	006-34.8341'W	Drifters attack snag
05/05/1917	<b>D</b>	50-20.0000'N	005-24.0000'W	ML 361 D/C
08/05/1917	<b>D</b>	50-24.4136'N	005-21.7569'W	SS San Patric fires on attacking sub Posn given as 15miles S 45deg W of Trevoise ie sw
09/05/1917	<b>A</b>	51-03.0000'N	001-40.0000'E	HMS Milne rammed UC26
12/05/1917	<b>C</b>	50-32.2943'N	001-56.1935'W	HMT Maristo D/C
15/05/1917	<b>C</b>	50-20.7386'N	001-57.2248'W	seaplane 9846 and TB81 attack sub
17/05/1917	<b>B TO A</b>	50-05.0000'N	001-25.0000'W	HMS Glen fights sub (Upgraded to Known Sunk UB39)
21/05/1917	<b>C</b>	50-40.0000'N	000-09.0000'W	Karoo fights submarine
25/05/1917	<b>D</b>	50-13.0000'N	003-10.0000'W	HMS Acasta paravane explodes
26/05/1917	<b>D</b>	50-01.2777'N	005-02.8600'W	HMS Christopher fires paravanes (Posn given as N. 58deg W. from Lizard Head).
27/05/1917	<b>C</b>	49-33.4934'N	000-08.8438'W	Drifter kestrel D/C- (posn given 2 and 3/4 miles NW by N of Whistle Buoy Havre)
27/05/1917	<b>C</b>	50-08.7742'N	006-20.1145'W	HMS Acton and seaplane 8656 attack sub
28/05/1917	<b>C</b>	50-01.0000'N	005-23.0000'W	ML334 D/C
29/05/1917	<b>B TO A</b>	49-53.0000'N	006-25.0000'W	SS Hyson collision w submerged sub?? 49 43 6 25 wpossibly linked to one w off map at 49 48 006 47w. Upgraded to A in JUL 1917 CB at posn above - bit of a mess - says sunk UB32 off Study Area
03/06/1917	<b>D</b>	49-56.7594'N	003-31.1676'W	HMS Achates D/C
03/06/1917	<b>D</b>	50-24.0964'N	000-08.8759'E	HMS Bolham Q-ship" action"
03/06/1917	<b>C</b>	50-09.0000'N	005-43.0000'W	HMS Squirrel D/C
04/06/1917	<b>D</b>	50-35.0000'N	000-56.0000'W	MTB98 D/C

04/06/1917	<b>D</b>	50-31.0000'N	001-37.0000'W	Drifters D/C
05/06/1917	<b>D</b>	50-12.0000'N	000-00.0000'E	MTB 5 odd posn
08/06/1917	<b>C</b>	50-54.9083'N	001-28.5678'E	HMS P50 D/C posn given as N 70deg W from Griz Nez
10/06/1917	<b>D</b>	49-40.0000'N	005-00.0000'W	HMS Lyra D/C
12/06/1917	<b>B TO A</b>	49-56.0000'N	005-10.0000'W	Sea King D/C notes upgrade this to Known Sunk UC66
13/06/1917	<b>D</b>	49-50.0000'N	004-36.0000'W	HM Grecian Empire D/C
15/06/1917	<b>D</b>	50-33.1587'N	001-10.5245'W	Queen Alexandris fires at sub with HMS Defender ram
15/06/1917	<b>D</b>	50-40.8100'N	000-37.0886'W	ML143 D/C
15/06/1917	<b>D</b>	50-01.0000'N	003-55.0000'W	SS Sanuki Maru fires at sub
17/06/1917	<b>C</b>	50-12.0000'N	001-00.0000'W	HM Trawler Jackdaw D/C
21/06/1917	<b>C</b>	49-26.0000'N	003-56.0000'W	HMS Probus fires at sub
25/06/1917	<b>C</b>	50-17.0000'N	005-44.0000'W	Seaplane 8665 bomb
25/06/1917	<b>C</b>	50-17.0000'N	002-00.0000'W	French Q-ship Normandy fights sub
28/06/1917	<b>D</b>	50-17.0000'N	003-21.0000'W	HM Trawlers fire on sub
04/07/1917	<b>D</b>	50-29.0000'N	003-22.0000'W	ML133 D/C
05/07/1917	<b>D</b>	50-00.0000'N	002-30.0000'W	USA SS Navajo gun fight with submarine
06/07/1917	<b>D</b>	49-51.0000'N	005-17.0000'W	HMS Cockatrice D/C
07/07/1917	<b>D</b>	49-55.5000'N	005-11.0000'W	HMS Lennox D/C
09/07/1917	<b>D</b>	50-00.0000'N	004-20.0000'W	HMS Puma gun fight
10/07/1917	<b>B</b>	49-58.0000'N	003-14.0000'W	HMS Glen gun fight with a UC
11/07/1917	<b>C</b>	49-38.9166'N	005-42.7062'W	HMS Helgoland fight with submarine
15/07/1917	<b>D</b>	50-28.0000'N	000-25.0000'E	Seaplane 8348 bomb sub
17/07/1917	<b>D</b>	49-44.0000'N	000-26.0000'W	HM trawler John G Watson D/C
20/07/1917	<b>D</b>	50-29.0000'N	002-51.0000'W	HMTB80 D/C
26/07/1917	<b>C</b>	49-57.5000'N	005-15.0000'W	HMS P60 D/C
26/07/1917	<b>A</b>	50-53.4262'N	001-36.8183'E	UC61 - given as Wissant Shoal" ran aground and blown up"
30/07/1917	<b>C</b>	49-32.0000'N	006-34.0000'W	USS Benham D/C
03/08/1917	<b>D</b>	49-54.0000'N	003-30.0000'W	HMS Mitchell gun fight with submarine
04/08/1917	<b>D</b>	50-03.0000'N	004-25.0000'W	HMS Tigress D/C
09/08/1917	<b>D</b>	49-46.9412'N	004-57.4224'W	airship C2 bomb
11/08/1917	<b>C</b>	50-31.0000'N	002-01.0000'W	HM trawler John Lyons D/C
16/08/1917	<b>D</b>	49-58.0000'N	005-40.0000'W	Seaplane N1605 bomb sub
18/08/1917	<b>B TO A</b>	49-58.0000'N	001-38.0000'W	Seaplane No. 9860 bombed sub
19/08/1917	<b>D</b>	50-09.5000'N	003-43.0000'W	HM trawler Lois D/C
23/08/1917	<b>C</b>	49-50.0000'N	005-19.0000'W	HMS Viola D/C
24/08/1917	<b>D</b>	49-18.0000'N	005-15.0000'W	HMT Ben Lawers fires at submarine
25/08/1917	<b>C</b>	50-01.0000'N	004-16.0000'W	HMS Heather D/C
31/08/1917	<b>C</b>	50-58.0000'N	001-28.0000'E	HMS P11 D/C

04/09/1917	<b>D</b>	50-33.0000°N	000-21.0000°W	HM ML82 D/C
04/09/1917	<b>D</b>	50-01.0000°N	001-16.0000°W	Seaplane 9860 bomb sub
06/09/1917	<b>D</b>	49-47.0000°N	005-07.0000°W	Airship C9 bomb sub
06/09/1917	<b>D</b>	49-34.0000°N	000-08.0000°W	Trawler Diamond and French airship bomb & D/C sub
08/09/1917	<b>C</b>	50-26.0000°N	003-19.0000°W	HMT Agnes Wickfield D/C
08/09/1917	<b>D</b>	49-43.0000°N	005-28.0000°W	USS McDougal D/C
11/09/1917	<b>C</b>	50-23.0000°N	001-06.0000°W	ML258 D/C
16/09/1917	<b>D</b>	50-51.5000°N	000-58.0000°E	HMT Seaword Ho D/C
21/09/1917	<b>C</b>	49-46.0000°N	004-55.0000°W	Airship C9 bomb sub
23/09/1917	<b>D</b>	50-34.0000°N	002-41.0000°W	Seaplane 9848 bomb sub
28/09/1917	<b>D</b>	49-36.0000°N	000-01.0000°W	HMT Ophir II D/C
30/09/1917	<b>D</b>	49-16.0000°N	005-17.0000°W	HMT Sanson fired at sub
03/10/1917	<b>C</b>	50-00.0000°N	003-50.0000°W	Airship C9 bomb sub
14/10/1917	<b>D</b>	49-38.0000°N	006-25.0000°W	Seaplane 8680 bomb sub
15/10/1917	<b>D</b>	50-25.0000°N	003-03.0000°W	HMT Stanley Weyman fired at sub
18/10/1917	<b>D</b>	50-12.0000°N	001-00.0000°W	Seaplane 1613 bomb sub
18/10/1917	<b>D</b>	49-32.0000°N	006-31.0000°W	Seaplane 8686 bomb
18/10/1917	<b>D</b>	50-13.0000°N	002-16.0000°W	Seaplane 9848 bomb
20/10/1917	<b>D</b>	50-11.0000°N	003-41.0000°W	HMT Casoria D/C
23/10/1917	<b>C TO A</b>	50-24.5000°N	000-30.5000°W	HMS Melampus D/C.. notes raise it to Known Sunk UC16
03/11/1917	<b>A</b>	50-28.0000°N	000-17.0000°E	C15 torpedoes UC65
11/11/1917	<b>D</b>	49-58.0000°N	003-22.0000°W	Seaplane 9850 bomb
12/11/1917	<b>D</b>	50-05.0000°N	004-26.0000°W	SS Cavallo fires at sub
15/11/1917	<b>D</b>	50-02.0000°N	005-20.0000°W	MLs & airship D/C oil
15/11/1917	<b>D</b>	49-52.0000°N	005-05.0000°W	Airship C5a bomb
17/11/1917	<b>A</b>	50-08.0000°N	003-42.0000°W	Explosion witnessed by HMT LOis. Sub seen to sink. Poss UC48. Note added UB18
17/11/1917	<b>D</b>	50-08.0000°N	004-34.0000°W	Airship C23a bomb sub. HMTs fire
18/11/1917	<b>D</b>	50-22.0000°N	001-38.0000°W	USA Seaplane 8670 bomb
23/11/1917	<b>D</b>	50-42.0000°N	000-19.0000°E	SS Boma ram?
02/12/1917	<b>A</b>	50-27.0000°N	000-53.5000°W	UB81
09/12/1917	<b>C</b>	49-17.0000°N	005-27.0000°W	HMT Ben Lawers rammed sub
10/12/1917	<b>D</b>	49-28.0000°N	005-17.0000°W	SS Kurland fires at sub
12/12/1917	<b>C</b>	49-34.8959°N	005-39.3310°W	HM ML 357 ram and fire at sub
19/12/1917	<b>D</b>	50-27.0000°N	005-18.0000°W	HMS Mitchell fires at sub
19/12/1917	<b>D</b>	49-52.0000°N	005-27.0000°W	Seaplane 1606 bomb
19/12/1917	<b>B</b>	50-58.0000°N	001-21.0000°E	HMS Gipsy witnessed explosion and survivors.. even then only a B - note added saying UB56 - OFFICIAL
20/12/1917	<b>D</b>	50-50.0000°N	001-30.0000°E	HMS Manley fire/ram
20/12/1917	<b>D</b>	50-55.0000°N	001-20.0000°E	HM Drifter Cosmos fires at sub
21/12/1917	<b>C</b>	50-54.0000°N	001-31.0000°E	HMS P24 D/C
22/12/1917	<b>D</b>	51-15.0000°N	005-38.0000°W	HMT Margeurite fires at sub

25/12/1917	<b>D</b>	50-54.0000'N	001-30.0000'E	HMS P49 ram D/C
07/01/1918	<b>A</b>	49-59.0000'N	005-12.0000'W	SS Braeneil sunk U93
08/01/1918	<b>EL</b>	50-50.0000'N	001-26.0000'E	Brothers Jem
19/01/1918	<b>EL</b>	50-54.0000'N	001-31.0000'E	Mermaid
26/01/1918	<b>A</b>	51-03.1550'N	001-46.0000'E	HMS Leven sinks UB35
26/01/1918	<b>A</b>	50-52.0000'N	001-35.0000'E	HM Drifter Beryl III sinks U109
31/01/1918	<b>EL</b>	51-02.0000'N	001-15.5000'E	P24
04/02/1918	<b>B TO A</b>	50-49.0000'N	000-59.0000'E	HMS Zubian D/C.. note added says UC50 - OFFICIAL
08/02/1918	<b>B</b>	50-59.0000'N	001-22.0000'E	HM drifter Gowan witnesses u/w explosion - should have been listed as EL
08/02/1918	<b>EL A</b>	50-56.0000'N	001-25.0000'E	Gowan II sees UB38 sunk.. from addendum at end of Apr-jun 1918 list - posn given different in list - see other EL on this date
09/02/1918	<b>D</b>	50-02.0000'N	004-59.0000'W	HMTs D/C
13/02/1918	<b>EL</b>	51-01.0000'N	001-23.0000'E	RRS
25/02/1918	<b>B TO A</b>	50-00.0000'N	002-25.0000'W	HMS Onslow et al D/C.. note says UB17
01/03/1918	<b>EL</b>	50-54.5000'N	001-29.5000'E	oil b/n nos 13 and 16 buoy..posn is estimate
06/03/1918	<b>D</b>	50-13.0000'N	000-27.0000'W	Seaplane 4340 bomb
10/03/1918	<b>A</b>	50-58.0000'N	001-14.0000'E	HMS P24 sees u/w explosion - UB58 mined
10/03/1918	<b>B</b>	50-25.0000'N	005-14.0000'W	HMTs Lark II and Lysander III and drifter Speculation fire and D/C sub.. ties to DIVE on site (tides)
10/03/1918	<b>EL</b>	50-58.0000'N	001-22.0000'E	EES heard explosion
13/03/1918	<b>D</b>	50-30.0000'N	001-27.0000'W	P25 D/C
14/03/1918	<b>D</b>	50-25.0000'N	001-12.0000'W	P25 w Kite Balloon MM59 D/C
18/03/1918	<b>D</b>	50-15.0000'N	002-22.0000'W	SS IbeX fired at sub
19/03/1918	<b>D</b>	50-14.0000'N	001-44.5000'W	HMT Ariel fires and D/C
19/03/1918	<b>D</b>	50-19.0000'N	002-05.0000'W	SS longnewtown fires at sub
20/03/1918	<b>C</b>	50-22.0000'N	001-47.0000'W	HMS Loyal D/C.. added ASD note says UC48 which survived
21/03/1918	<b>D</b>	50-48.0000'N	001-07.0000'E	HMS Lance D/C
23/03/1918	<b>D</b>	50-41.0000'N	000-15.0000'W	HMT Willet fires and D/C sub
25/03/1918	<b>D</b>	50-01.5000'N	000-26.0000'W	P75 D/C
25/03/1918	<b>D</b>	50-28.0000'N	001-56.0000'W	Seaplane 1794 bomb
04/04/1918	<b>C</b>	50-30.0000'N	001-00.0000'W	HMS Cockatrice D/C
07/04/1918	<b>B</b>	50-49.0000'N	001-11.0000'E	P12 & P75 D/C
07/04/1918	<b>D</b>	50-47.5000'N	001-08.0000'E	Airship SS Z1 bomb
10/04/1918	<b>D</b>	50-00.0000'N	004-00.0000'W	Seaplane 1796 bomb
10/04/1918	<b>D</b>	50-19.5000'N	000-32.0000'W	P59 D/C
11/04/1918	<b>A</b>	50-56.0000'N	001-17.5000'E	Ocean Roamer sinks UB33
12/04/1918	<b>C</b>	51-05.0800'N	001-42.0000'E	HMS Monitor 24 fires at sub

13/04/1918	<b>D</b>	50-16.0000'N	001-19.0000'W	P36 D/C
16/04/1918	<b>D</b>	50-33.0000'N	002-40.0000'W	HM trawlers fire at sub
19/04/1918	<b>EL B</b>	51-01.0000'N	001-17.0000'E	drifter Monarda witness explosion and evidence of sub sunk
19/04/1918	<b>D</b>	49-48.0000'N	005-01.0000'W	HMS Porpoise D/C
22/04/1918	<b>C</b>	50-02.0000'N	003-13.0000'W	Seaplane N2832 bomb
22/04/1918	<b>A</b>	51-01.0000'N	001-20.3333'E	HM Drifter Shipmates uw explosion and survivors.. UB55
22/04/1918	<b>EL</b>	51-00.2500'N	001-19.0000'E	HMD Seaflower explosion
24/04/1918	<b>D</b>	51-03.0000'N	004-48.0000'W	HMT Favorita D/C
26/04/1918	<b>D</b>	50-27.0000'N	002-07.0000'W	HMT Belgaum D/C
26/04/1918	<b>D</b>	50-43.0000'N	004-56.0000'W	HMT Captain Pollen D/C
26/04/1918	<b>D</b>	50-19.0000'N	001-00.0000'W	P14 D/C
27/04/1918	<b>EL TO B</b>	51-02.0000'N	001-16.0000'E	HM drifter Reaper hears explosion - much oil
28/04/1918	<b>C</b>	49-07.0000'N	005-53.0000'W	USS Porter D/C
29/04/1918	<b>D</b>	50-12.5000'N	005-40.5000'W	HM drifter Speculation D/C
30/04/1918	<b>C</b>	50-42.0000'N	004-48.0000'W	Lark II D/C
02/05/1918	<b>EL B/A</b>	51-01.3333'N	001-16.1500'E	HM drifter Lord Leitrim D/c chase into mine.. note says this is known UB31
02/05/1918	<b>EL B/A</b>	50-56.7500'N	001-23.1500'E	HM drifters Our Fred & Marys .. not added says UC78
05/05/1918	<b>D</b>	50-52.0000'N	004-43.3333'W	PC44 D/C
05/05/1918	<b>C</b>	51-48.5000'N	005-47.5000'W	HM Drifter Smilax D/C - detailed attack report
07/05/1918	<b>EL B</b>	50-12.0000'N	003-42.0000'W	Start Point mines fired because sub heard.. human remains seen
09/05/1918	<b>A</b>	49-50.0000'N	001-40.0000'W	SS Queen Alexandra sinks UB78
11/05/1918	<b>EL</b>	51-01.2500'N	001-18.0000'E	HM drifter Devon County D/C
11/05/1918	<b>EL</b>	51-01.1500'N	001-20.0000'E	u/w explosion
12/05/1918	<b>A</b>	50-08.0000'N	002-41.0000'W	D4 sinks UB72
12/05/1918	<b>A</b>	49-16.0000'N	004-51.0000'W	Olympic sinks U103
13/05/1918	<b>EL</b>	50-56.0000'N	001-19.0000'E	HMS Panther sees explosion
13/05/1918	<b>D</b>	50-40.0000'N	000-20.0000'E	SS Nidd collision?
16/05/1918	<b>D</b>	50-33.0000'N	005-02.0000'W	USA seaplane N1616 bomb
20/05/1918	<b>D</b>	50-59.0000'N	001-20.0000'E	HM drifter Regain fires at sub
25/05/1918	<b>EL</b>	51-00.3333'N	001-18.5000'E	drifter BTB witness explosion
25/05/1918	<b>D</b>	50-34.1500'N	005-04.6666'W	PC60 D/C
26/05/1918	<b>A</b>	50-32.0000'N	002-32.0000'W	Lorna sinks UB74
26/05/1918	<b>D</b>	50-29.5000'N	002-16.5000'W	Seaplane 9850 bomb
28/05/1918	<b>EL</b>	50-38.2500'N	000-23.5000'E	HMD Rose & Gladys net & explsion
29/05/1918	<b>EL</b>	50-30.0000'N	000-48.0000'W	HMT Myno explosions
30/05/1918	<b>D</b>	50-30.5000'N	000-44.0000'W	HMS Desperate D/C
31/05/1918	<b>EL</b>	51-43.0000'N	001-36.0000'E	Sopwith Camel attacks sub - then explosions
07/06/1918	<b>EL</b>	50-57.0000'N	001-29.5000'E	explosion & oil

08/06/1918	<b>D</b>	49-48.5000'N	005-24.5000'W	HMS lanthe fires at sub
12/06/1918	<b>EL</b>	50-55.0000'N	001-34.8500'E	oil rising
16/06/1918	<b>EL</b>	50-54.5000'N	001-32.0000'E	HM drifter Katreen saw periscope and explosion
20/06/1918	<b>B</b>	50-58.1500'N	001-23.0000'E	HMD Ocean Roamer explosion & D/C
23/06/1918	<b>EL</b>	51-00.1500'N	001-18.6666'E	HMD Harvest chase and explosions
25/06/1918	<b>D</b>	50-22.0000'N	001-57.0000'W	Seaplane 9841 bomb
27/06/1918	<b>EL</b>	50-58.0000'N	001-22.0000'E	HMD Bountiful explosion and oil
07/07/1918	<b>D</b>	50-48.0000'N	000-44.0000'E	seaplane 2827 bomb
10/07/1918	<b>D</b>	49-54.5000'N	005-08.5000'W	Subchaser 84 D/C
10/07/1918	<b>A</b>	51-01.5000'N	001-19.5000'E	HMD Kessingland & Golden Gain sink UC77
14/07/1918	<b>EL</b>	50-55.3333'N	001-28.1500'E	HMD Loyal Friend sees explosion
30/07/1918	<b>C</b>	49-49.0000'N	003-53.0000'W	Stockforce fight with sub - note that sub survived
03/08/1918	<b>D</b>	50-32.5000'N	005-06.0000'W	HMT Wyre D/C
08/08/1918	<b>B TO C</b>	50-19.7500'N	003-25.8500'W	HMS Opossum D/C.. note downgrades assessment
11/08/1918	<b>EL</b>	51-02.0000'N	001-12.0000'E	HMD Bluebell IV heard explosion
11/08/1918	<b>D</b>	50-27.0000'N	001-12.0000'W	SS Nirvana & TB 16 D/C
29/08/1918	<b>A</b>	51-03.6666'N	001-14.1500'E	UB109
06/09/1918	<b>D</b>	50-17.0000'N	005-46.0000'W	3 x subchasers D/C u/w noise
16/09/1918	<b>EL TO A</b>	50-52.2500'N	001-26.6666'E	Young Crow explosions.. note says UB103 - OFFICIAL
18/09/1918	<b>D</b>	50-23.0000'N	005-20.0000'W	HM Yachy Venetia II fires at sub

Table 2.4. ASD Assessments as listed in CB01292 and cumulative editions (ADM 239/36) (271 records) (Innes McCartney)

DATE			DETAILS
11/10/1915	51°07.9032'N	001°30.1068'E	Drifter Condor - Undertain no payout
23/10/1915	50°53.4580'N	000°54.4387'E	Trawler Ben Gulvain claims rammed sub - unlikely
11/01/1916	51°07.3223'N	001°30.1324'E	Yacht James Fletcher rams sub. Paid out because diver claims to have been on sub wreck
24/03/1916	50°54.7389'N	001°01.6954'E	Trawler Seawrd Ho - posn vague
18/06/1916	51°08.1500'N	001°31.5000'E	Drifter R Mackay - probable
26/11/1916	51°02.4931'N	001°14.3882'E	HMS Falcon - uncertain. 1 mile s of folkestone gate
04/12/1916	51°08.0000'N	001°40.0000'E	HMS Llewellyn - probable
13/12/1916	51°08.7101'N	001°45.4364'E	HMS Landrail - uncertain

08/02/1917	51°09.7154'N	001°44.2268'E	HMS Liberty (withing half mile of this posn) SUNK
09/05/1917	51°10.1500'N	001°44.2267'E	HMS Milne - SUNK UC26
08/06/1917	50°53.1768'N	001°27.0322'E	HMS P50 - ?
04/08/1917	50°51.0000'N	000°42.3300'E	Trawler Wren - ?
31/08/1917	50°58.7188'N	001°30.0563'E	HMS P11 - possible
03/09/1917	50°42.1500'N	000°26.5000'E	Trawler Peary - ?
02/11/1917	50°50.9755'N	000°45.7461'E	Trawler Norman - ? Captain arrested for lying
14/11/1917	50°37.5000'N	000°26.5000'E	Trawler Fuji - uncertain
20/12/1917	51°00.0276'N	001°26.0385'E	Drifter Cosmos - uncertain
20/12/1917	50°56.0000'N	001°25.0000'E	HMS Manly - uncertain
21/12/1917	50°54.0191'N	001°31.0055'E	HMS P24 - uncertain
13/09/1917	50°49.0000'N	000°45.5000'E	U-BOAT WRECK Divers report bows buried - on stbd side
13/09/1917	50°50.5500'N	000°48.5000'E	U-BOAT WRECK Divers report submarine wreck
02/01/1918	50°44.0000'N	000°09.0000'E	P16 and Airship - not known
26/01/1918	51°03.1500'N	001°46.0000'E	Beryl & Leven - 2 attacks 1 U-boat sunk
04/02/1918	50°49.0344'N	000°59.0349'E	Zubian - sunk
08/02/1918	50°58.7500'N	001°22.0000'E	drifters and trawlers - sunk
13/02/1918	50°46.9469'N	001°17.2088'E	Zubian - uncertain
01/03/1918	50°56.0000'N	001°29.5000'E	explosion
10/03/1918	51°02.7194'N	001°24.2860'E	explosion - UB58
13/03/1918	50°43.3682'N	000°27.8480'E	HMS Crusader - uncertain
13/03/1918	51°00.7143'N	001°18.6960'E	explosion ub58
15/03/1918	51°05.0000'N	001°29.5000'E	Termagant - uncertain
19/03/1918	51°00.7305'N	001°17.8499'E	explosion - sunk
07/04/1918	50°44.0000'N	000°55.0000'E	airship SSZ1 probable
09/04/1918	50°53.9445'N	000°57.3619'E	Syren - probably damaged
11/04/1918	50°56.0000'N	001°17.5000'E	minefield patrol
12/04/1918	51°05.1000'N	001°42.0000'E	M24 - uncertain
19/04/1918	51°01.6847'N	001°18.1575'E	Drifters - destroyed
20/04/1918	50°59.8500'N	001°10.0000'E	GYpsy - uncertain
22/04/1918	51°01.0000'N	001°19.7500'E	minefield patrol UB55
27/04/1918	51°02.0889'N	001°15.9523'E	minefield patrol - destroyed
02/05/1918	51°01.3300'N	001°16.1500'E	drifters - destroyed
02/05/1918	50°56.7500'N	001°23.1500'E	minefield patrol - probably sunk
11/05/1918	51°01.1500'N	001°20.0000'E	minefield
17/05/1918	50°45.0000'N	000°43.5000'E	airship SSZ5 - probably
21/05/1918	51°01.0000'N	001°08.0000'E	Gypsy & airship - probably escaped
25/05/1918	51°07.0000'N	001°24.0000'E	P17 & Airship - area swept - no sub found
25/05/1918	51°00.3300'N	001°18.5000'E	drifters - possibly sunk
30/05/1918	50°59.6788'N	001°22.9270'E	Airshp VZ2 - probably damaged

30/05/1918	50°42.1500'N	000°10.8500'E	P50 - unknown
07/06/1918	50°57.0000'N	001°29.5000'E	minefield - destroyed
08/06/1918	50°57.3315'N	001°22.6449'E	drifter Ocean Roamer - probably
12/06/1918	51°54.5000'N	001°35.0000'E	Minefield - destroyed
20/06/1918	50°55.5000'N	001°29.6000'E	trawlers and drifters - destroyed
23/06/1918	51°00.0000'N	001°18.6600'E	minefield patrol - destroyed
27/06/1918	50°57.0000'N	001°21.0000'E	minefield patrol - destroyed
30/06/1918	50°56.1813'N	001°10.9521'E	Myngs, P11 and airship - possibly destroyed
04/07/1918	51°01.1500'N	001°17.0000'E	Drifters and airship - uncertain
10/07/1918	51°01.8500'N	001°19.8500'E	drifters - destroyed
14/07/1918	50°59.0000'N	001°27.5000'E	p48 - probably damaged and escaped
28/07/1918	51°01.0800'N	001°15.8500'E	drifter - probably dead sub
29/07/1918	50°58.0000'N	001°23.0000'E	Monarda - probably UB109 on way out - escaped
05/08/1918	51°02.6770'N	001°15.2400'E	folkestone gate patrol - escaped
05/08/1918	50°51.0000'N	000°48.0000'E	Leven & Violet - not known
12/08/1918	50°56.0000'N	001°22.0000'E	P49 - dead sub
15/08/1918	50°58.1500'N	001°23.6600'E	P17 and airships - probably damaged
29/07/1918	51°03.5274'N	001°14.5677'E	UB109 destroyed - detector minefield
30/07/1918	51°01.1833'N	001°18.7217'E	drifter Burn - probably dead sub
16/09/1918	50°52.2500'N	001°26.6600'E	young crow - uncertain
20/03/1918	50°53.2309'N	001°32.4915'E	Brothers Gem fired at submarine
21/04/1918	51°01.5230'N	001°09.9009'E	mines explosion witnessed by HMS Firedrake
09/11/1918	51°01.0700'N	001°16.5000'E	St germain explsn and d/c attack
19/05/1918	50°44.5000'N	000°43.1500'E	Airship and HMS kangaroo attack.. in VolIX not in Pack IV

Table 2.5. Dover Patrol Records as listed in ADM 137/2096, ADM 137/1561 and ADM 137/2097 (73 records) (Innes McCartney)

Date	Source	Letter or assessment	Place	Details	Notes
05/01/1915	CB 01292	D	Off Portland	Sub in nets - sweep fired	
20/02/1915	CB 01293	D	Off Dover	Sub in nets - sweep fired	
22/02/1915	CB 01294	D	Off Dover	sweep fired	
04/03/1915	CB 01295	A	Near Varne	U8 sunk by sweep	
31/03/1915	CB 01296	C	Off Dieppe	SS Lizzie ram	ADM 137/4142 gives full details but no posn
15/05/1915	CB 01297	C	Off Dover	Sub in nets - sweep fired	ADM 137/4142 gives full details

					but no posn
04/07/1915	CB 01298	B	Off Boulogne	French vessel Holland fires at sub	
25/09/1915	CB 01299	D	Off South Foreland	SS Galileo collision?	
08/04/1916	CB 01300	C	Off Cap d'Antifer	Drifter nets D/C sub	ADM 137/4143 gives full details but only vague posn around 5 miles nw of Anfiger
10/06/1916	CB 01301	D	Off NE Varne Buoy	Yacht Ombra collision?	
07/09/1916	CB 01302	D	Off the Lizard	HM brigantine Helgoland fires at sub	
11/03/1917	CB 01303	C	Off newhaven	Q20 fight with sub	ADM 137/4144 gives full details but no posn
20/04/1917	CB 01304	D	25 miles off Cap d'Antifer	HMS Glen fires on sub	
13/03/1918	CB 01305	EL C	Dover Minefield	Explosion in minefield - oil seen	
19/03/1918	CB 01306	EL C	Dover Minefield	Explosion in minefield - oil seen	
03/05/1918	CB 01307	EL C	Off Griz Nez	Hydrophone unit fires F line of mines	
23/05/1918	CB 01308	EL	Off Griz Nez	Hydrophone unit fires H line of mines	
01/06/1918	CB 01309	EL	Off Griz Nez	Hydrophone unit fires H line of mines	
12/06/1918	CB 01310	EL	Off Griz Nez	Hydrophone unit fired mines	
11/07/1918	CB 01311	EL	Off Griz Nez	Hydrophone unit fires K line of mines	
21/09/1918	CB 01312	EL	Off Start Point	Hydrophone unit fires A & B lines of mines	
19/07/1915	Dover Pack III	Probable	Straits	Drifter Clover Bank Paid out for	ADM 137/2096

				destruction of U-boat	
04/03/1915	Dover Pack III	Sunk	Varne	HMS Gurkha Sunk U8	ADM 137/2096
02/03/1915	Dover Pack III	Escaped	Straits ?	Drifter Spotless Prince	ADM 137/2096
30/05/1915	Dover Pack III	Escaped	1 mile S of No 1 Buoy	HMS Nubian and Drifter Heindra	ADM 137/2096
06/11/1915	Dover Pack III	Escaped	No 2 Buoy	Drifters Kiama and Alaburn	ADM 137/2096
10/01/1916	Dover Pack III	Escaped	Straits ?	Drifter Treasure	ADM 137/2096
20/03/1916	Dover Pack III	Uncertain	Straits ?	Drifter Jeannie Simpson	ADM 137/2096
10/06/1916	Dover Pack III	Uncertain	Varne	HM Yacht Ombra	ADM 137/2096
10/11/1916	Dover Pack III	Unsuccessful	nr South Goodwin	HMS Landrail	ADM 137/2096
18/10/1917	Dover Pack III	?	Griz/Calais?	HMS Afridi	ADM 137/2096
26/01/1918	Dover Pack IV	Possibly destroyed	?	HMS Onslow	ADM 137/2097
23/05/1918	Dover Pack IV	destroyed	Gris Nez control	H line of mines fired	ADM 137/2097
02/06/1918	Dover Pack IV	probably destroyed	Gris Nez control	H line of mines fired	ADM 137/2097
11/07/1918	Dover Pack IV	not known	Gris Nez control	E line of mines fired	ADM 137/2097
26/02/1918	Dover Pack IV	Explosion	Somewhere between No Colbart and Gris Nez	Heard by 5 different drifters in different positions - so somewhere in area stated	ADM 137/2097
09/04/1918	Dover Pack IV	Explosion	Somewhere north of Varne LV	Heard by 8 different drifters in different positions - so somewhere in area stated	ADM 137/2097
21/04/1918	Dover Pack IV	Explosion	Somewhere se of No 30 buoy	heard by Trawler Hydra	ADM 137/2097
03/05/1918	Dover Pack IX	Explosion	Gris Nez control	F line of mines fired	ADM 137/1561
20/05/1918	Dover	fired at sub	Varne LV	Sub escaped	ADM 137/1561

	Pack IX		close to	at high speed	
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*Table 2.6. Dover Patrol and ASD Records which could not be plotted in GIS due to lack of positional data as listed in ADM 137/2096, ADM 137/1561, ADM 137/2097 and ADM 239/26(41 records) (Innes McCartney)*

## Appendix 1.6 The Means of Destruction of U-Boats as Understood in 1919 and 2013

1919 List	How Sunk		2013 List	How Sunk		1919 List	2013 List
U8	Sweep		U8	Sweep	Sweep	1	1
UB26	Mine		U37	Mine	Mine	14	14
UB19	Depth-Charge		UB26	Depth-Charge	Depth-Charge	7	4
UC19	Q-Ship		UB19	Q-Ship	Q-ship	4	2
UB37	Q-Ship		UB37	Q-Ship	Ramming	6	4
UC46	Rammed		UC46	Rammed	Accident	2	2
U85	Q-Ship		UC26	Rammed	Submarine	2	2
UC26	Rammed		(UC66)	Aircraft	Aircraft	1	1
UB39	Q-Ship		UC61	Accident	Unknown	0	5
UC66	Rammed		UC65	Submarine			
UC61	Accident		UC51	Mine			
UB32	Aircraft		UB81	Mine			
UC16	Depth-Charge		UC69	Accident			
UC65	Submarine		UB56	Mine			
UB18	Mine		(U95)	Rammed			
UB81	Mine		UB35	Depth-Charge			
UC69	Accident		(U93)	Unknown			
UB56	Mine		UB38	Mine			
U93	Rammed		UB58	Mine			
U109	Mine		(UC79)	Mine			
UB35	Depth-Charge		UB33	Mine			
UC50	Depth-Charge		UB78	Mine			
UB38	Mine		UB55	Mine			
UB17	Depth-Charge		(UB31)	Mine			
UB58	Mine		U103	Rammed			
UB33	Mine		UB72	Submarine			
UB55	Mine		UB74	Depth-Charge			
UB31	Mine		UC64	Mine			
UC78	Mine		UB65	Unknown			
UB78	Rammed		(UC49)	Depth-Charge			
U103	Rammed		UB109	Mine			
UB72	Submarine		(WW1 U-boat)	Unknown			
UB74	Depth-Charge		(UC)	Unknown			
UC64	Mine		(UB/UClI)	Unknown			
UC77	Depth-Charge		(Submarine)	Mine			
UB109	Mine						
UB103	Mine						

Table 2.7. The Means of Destruction of U-boats as understood in 1919 and 2013 (Innes McCartney)

## Appendix 1.7 *UC69* and the Salvaged U-boats

Added to the 33 known wrecks of WW1 are the three cases below which were definitely sunk in the Channel during WW1.

### ***UB26***

*Hydrographic Record No. N/A                      Position: N/A                      Depth: N/A*

This U-boat was attacked by depth-charges on 5 April 1916 whilst in the approaches to Le Havre attempting to lay mines. It surfaced and scuttled and the crew were captured. Three days later the U-boat was raised. It was later commissioned into the French Navy (Messimer 2002, 145-148). Similar details appear in the 1919 List (NA ADM239/26).

### ***UC61***

*Hydrographic Record No. N/A                      Position: N/A                      Depth: N/A*

*UC61* ran aground and was scuttled on 26 July 1917 near the village of Wissant on the French side of the Pas de Calais. Much of the wreck was undamaged in scuttling and was taken away for examination (Messimer 2002, 299). Similar details appear in the 1919 List (NA ADM239/26).

### ***UC69***

*Hydrographic Record No. N/A                      Position: N/A                      Depth: N/A*

On 6 December 1917 this U-boat was accidentally sunk in a collision with the homeward bound *U96*. The incident took place off Barfleur. Most of *UC69*'s crew were rescued. The U-boat is thought to have exploded when it hit the seabed (Messimer 2002, 307). There is no doubt a wreck is present off Barfleur and has not been located. This incident appears in the 1919 List (NA ADM239/26) as a brief entry. The British became aware of the loss of this U-boat in March 1918, but did not know the circumstances until September (presumably from prisoners) and the details of the incident do not appear in the 1919 List.

## **Appendix 2.1 World War Two U-Boats Which Might Have Been Lost in the Study Area**

The U-boats listed below were either a) listed in 1946 as lost in the Study Area graded “B” (or less) and have not been found, or b) are now considered to have possibly been lost in the Study Area. In all cases the evidence has not been matched to any known wrecks.

### ***U740***

This U-boat was listed as being sunk by Liberator F/120 in a “B” attack outside the Study Area at 49 49;08 37W on 9 June 1944. This attack was reassessed by Niestlé in 1996, because as *U740* was ordered to the Plymouth area from Brest, it would not have been so far to the west. He states the attack was probably directed against a non-sub target (Niestlé 1998, 232-233). If correct, this means that *U740* might be found in the Study Area in the future.

### ***U927***

This U-boat is listed as being sunk by Warwick K/179 on 24 February 1945 off Falmouth (BA ADM199/1789 No. 656). The attack was graded “B”. No wreck has so far been located in this well-surveyed area and this assessment must be considered problematic.

### ***U1055***

This U-boat was listed in 1946 as being sunk outside the Study Area in a “B” attack by a Catalina at 48 00; 06 30W (NA ADM199/1789, No.741). In 1992, Niestlé reassessed this attack and stated that it had sunk *U1107* (NHB FDS445). Subsequently, NHB accepted this reattribution and suggested in 1997 that since *U1055* had actually been ordered into the Channel it may have been lost there or on passage (NHB 1997). There is the possibility that (*U772*) may turn out to be *U1055* (see Case Study No. Five).

### ***U246/U1169***

*U246* is listed as a “B” sinking in the Study Area on 29 March 1945 at 49 58;05 25W (NA ADM199/1789 No.681). However the personal effects of crewmembers of *U246* have been identified among the items collected from the sea at another attack in the Irish Sea. It has been suggested that actually *U1169* was sunk here (Niestlé 1998, 225). The AUD Assessment of this attack (NA ADM199/1786 AUD785/45) states a U-boat was hit by hedgehog, but the description of the attack did not convince the group commander, although AUD took a more positive view and graded the attack “B”. The absence of a U-boat wreck in this well-surveyed area seems to make this case problematic and it seems unlikely that a U-boat wreck is present.

## **Appendix 2.2 The 1946 List of the 31 U-Boat Losses in the Study Area During World War Two (with corrections due to typographic errors)**

The official 1946 List of U-boat losses in WW2 (NA ADM199/1789) claimed that 31 U-boats were lost in the Study Area during the war. The identities and distribution of these stated losses is shown here in tabular (Figure X2) form and as a map (Figure X1). This list is the point at which the historic text will be compared to the extant archaeology as known in 2012, so it is important that the list and the supporting maps be as AUD intended in 1946.

The first thing which will be noted is that three of the stated positions have actually been listed incorrectly, with numeral reversals accounting for the incorrect location of *U672* (see chapter 2.3) and mistakes in the numerals “3” and “5” accounting for the incorrect positions of *U1063* and *U247*. *U1063* should be at 3 degrees west and *U247* at 5 degrees west. The red arrows on Figure X1 serve to correct these mistakes and show the actual intended positions of the wrecks. With the distance of time now passed it is impossible to know why these errors were not corrected at the time. It can only be presumed that the run-down in staff at OIC and AUD in April 1945, discussed in the introduction to this section of the thesis is partly to blame. Further diagrams using the 1946 List have been corrected to show where the wrecks were intended to be listed.

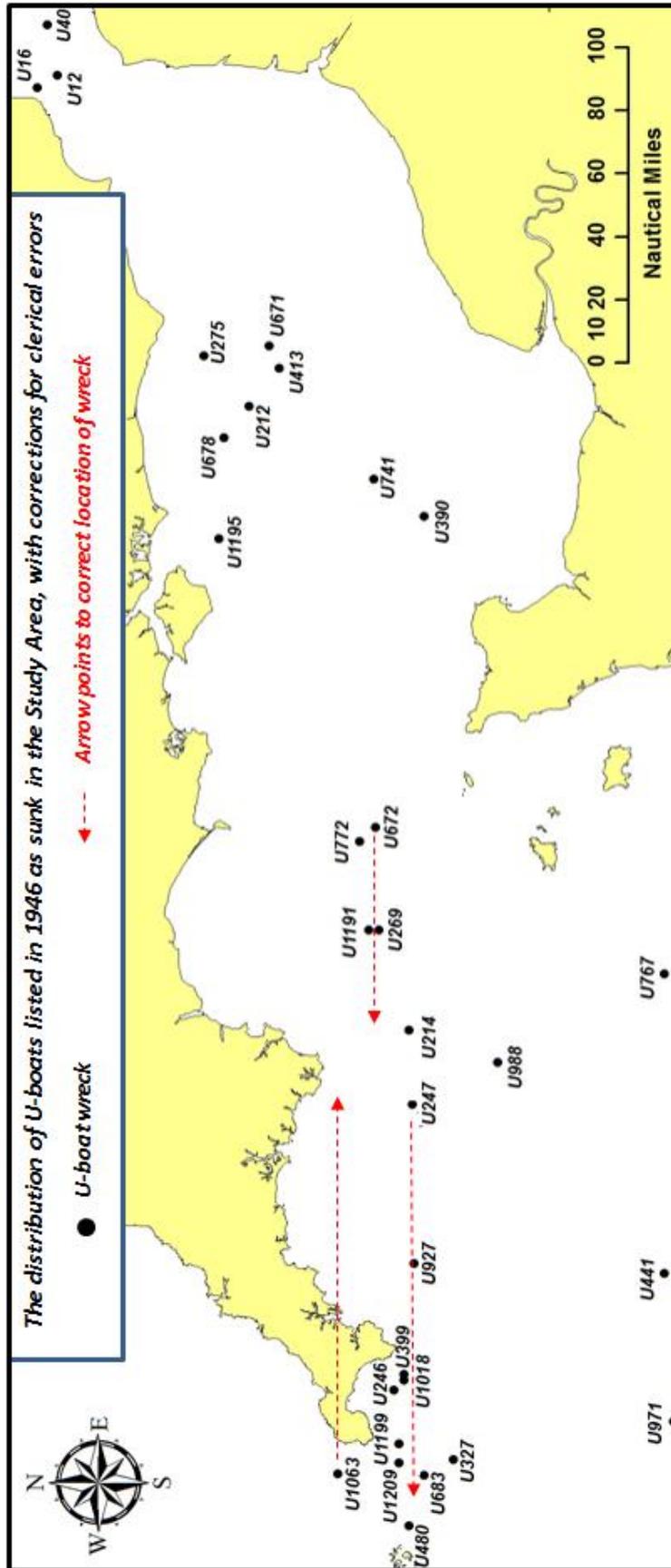


Figure 2.1. Map showing the positions of the 31 U-boats listed as sunk in the Study Area in 1946, with typographical errors corrected by the author in 2012 (Innes McCartney).

Official Name	Official Position	Date Sunk	Post War Grade	Positional Source
U12	dover straits	08/10/1939	A	Estimate
U40	dover straits	13/10/1939	A	Bob Peacock
U16	51.09/01.28E	25/10/1939	A	ADM199/1789
U767	49.03/03.13W	18/06/1944	A	ADM199/1789
U441	49.03/04.48W	18/06/1944	B	ADM199/1789
U971	49.01/05.35W	24/06/1944	A	ADM199/1789
U269	50.01/02.59W	25/06/1944	A	ADM199/1789
U1191	50.03/02.59W	25/06/1944	B	ADM199/1789
U988	49.37/03.41W	29/06/1944	B	ADM199/1789
U390	49.52/00.48W	05/07/1944	A	ADM199/1789
U678	50.32/00.23W	06/07/1944	A	ADM199/1789
U672	50.03/03.20W	18/07/1944	A	Innes McCartney
U212	50.27/00.13W	21/07/1944	B	ADM199/1789
U214	49.55/03.31W	23/07/1944	B	ADM199/1789
U671	50.23/00.06E	04/08/1944	A	ADM199/1789
U741	50.02/00.36W	15/08/1944	A	ADM199/1789
U413	50.21/00.01W	20/08/1944	A	ADM199/1789
U247	49.54/05.49W	01/09/1944	A	Innes McCartney
U1209	off wolf rock	18/12/1944	ungraded	ADM199/1789
U772	50.05/02.31W	30/12/1944	B	ADM199/1789
U1199	49.57/05.42W	21/01/1945	A	ADM199/1789
U480	49.55/06.08W	24/02/1945	B	ADM199/1789
U927	49.54/04.45W	24/02/1945	B	ADM199/1789
U1018	49.56/05.20W	27/02/1945	A	ADM199/1789
U327	49.46/05.47W	27/02/1945	B	ADM199/1789
U275	off newhaven	10/03/1945	A	ADM199/1789
U683	49.52/05.52W	12/03/1945	B	ADM199/1789
U399	49.56/05.22W	26/03/1945	A	ADM199/1789
U246	49.58/05.25W	29/03/1945	B	ADM199/1789
U1195	50.33/00.55W	06/04/1945	A	ADM199/1789
U1063	50.08/03.52W	15/04/1945	A	Innes McCartney

Table 2.8. The positions of the 31 U-boats listed sunk in the Study Area in 1946, with typographical errors corrected by the author in 2012 (Innes McCartney).

## Appendix 2.3 The Identity and Location of World War Two U-Boat Wrecks as Known When Initially Researched

Identity of site at start of Research	Identity as of 2012 List	Actual Position	Original Posn Source	Hydrographic Office Wreck No.
U40	U40	51 07.467; 001 48.010E	Bob Peacock	Not Listed
U767	U767	49 02.402; 003 13.542W	Hydrographic Office	22970
U-boat	U269	49 55.893N; 002 46.660W	Grahame Knott	23376
U-boat	U1191	50 01.317N; 002 59.750W	Grahame Knott	18443
Submarine	(U441)	49 35.721N; 003 40.496W	Odyssey	23021
Submarine	(U988)	50 09.515N; 000 14.865W	Tim Bonetto	19788
U390	U390	49 49.475; 000 56.026W	Hydrographic Office	24224
Submarine	U678	50 33.570; 000 04.476W	Tim Bonetto	19916
Submarine	U212	50 28.904; 000 10.626W	Ivan Warren	19870
U-boat	U214	49 55.435; 003 31.850W	Hydrographic Office	23071
U671	U671	50 23.690; 000 19.093E	Tim Bonetto	20310
Submarine	U741	50 02.273N; 000 34.957W	Tim Bonetto	20257
Submarine	U413	50 21.423; 000 00.407W	Tim Bonetto	19845
Submarine	(U984)	03.732N; 000 32.398W	Tim Bonetto	19756
U247	U247	49 53.970; 005 49.974W	Hydrographic Office	22440
Submarine	(U772)	50 02.742N; 002 01.383W	Grahame Knott	18451
Submarine	(U322)	50 24.876N; 002 26.209W	Grahame Knott	18541
Submarine	(U400)	50 33.272;N 005 11.635W	Hydrographic Office	16715
Submarine	U1199	49 57.852; 005 42.604W	Hydrographic Office	22609
U-boat	(U650)	49 51.061N; 005 29.971W	Hydrographic Office	22406
U-boat	(U1208)	49 51.820N;006 06.806W	Hydrographic Office	21809
Submarine	U480	50 22.139N;001 44.243W	Grahame Knott	19656
U1018	U1018	49 56.571; 005 20.247W	Hydrographic Office	22560
Submarine	(U683)	50 31.401N;005 22.861W	Hydrographic Office	16678
U275	U275	50 36.336; 000 03.123E	Hydrographic Office	20384
U399	U399	49 56.526; 005 22.929W	Hydrographic Office	22545
Submarine	(U1021)	50 39.798N;005 05.068W	Hydrographic Office	60228
U1195	U1195	50 30.383; 000 56.302W	Hydrographic Office	19919
U1063	U1063	50 08.944; 003 53.468W	Hydrographic Office	18022
Submarine	(U325)	49 48.321N;005 12.444W	Hydrographic Office	22287
(U1279)	(U1279)	49 45.930N;005 45.270W	Axel Niestle	22326

Table 2.9. The identity and location of World War Two U-boat wrecks as known when initially researched (Innes McCartney).

## Appendix 2.4 The List of World War Two U-Boat Losses in the Study Area as Revised in 2012 as Result of Research Carried Out For This Thesis

Wreck Name	Historically Accurate	Actual Position	Date Sunk	Historic Grade of attack at posn of wreck	Posn Source	Hydro number
U12	Y	51 05.000;01 32.000E	08/10/1939	A	Estimate	Unlocated
U40	Y	51 07.467; 001 48.010E	13/10/1939	A	Bob Peacock	Not Listed
U16	Y	51 09.000;01 28.000E	25/10/1939	A	ADM199/1789	Unlocated
U767	Y	49 02.402; 003 13.542W	18/06/1944	A	Hydro	22970
U971	Y	49 01.000;05 35.000W	24/06/1944	A	ADM199/1789	Unlocated
U269	Y	49 55.893N; 002 46.660W	25/06/1944	A	Hydro	23376
U1191	Y	50 01.317N; 002 59.750W	25/06/1944	B	Hydro	18443
(U441)	N	49 35.721N; 003 40.496W	29/06/1944	B	Hydro	23021
(U988)	N	50 09.515N; 000 14.865W	03/07/1944	I	Hydro	19788
U390	Y	49 49.475; 000 56.026W	05/07/1944	A	Hydro	24224
U678	Y	50 33.570; 000 04.476W	06/07/1944	A	Hydro	19916
U672	Y	50 03.000;03 20.000W	18/07/1944	A	ADM199/1789	Unlocated
U212	Y	50 28.904; 000 10.626W	21/07/1944	B	Hydro	19870
U214	Y	49 55.435; 003 31.850W	23/07/1944	B	Hydro	23071
U671	Y	50 23.690; 000 19.093E	04/08/1944	A	Hydro	20310
U741	Y	50 02.273N; 000 34.957W	15/08/1944	A	Hydro	20257
U413	Y	50 21.423; 000 00.407W	20/08/1944	A	Hydro	19845
(U984)	N	03.732N; 000 32.398W	August 1944	-	Hydro	19756
U247	Y	49 53.970; 005 49.974W	01/09/1944	A	Hydro	22440
U1209	Y	49 57.000; 05 48.000W	18/12/1944	(A)	ADM199/1789	Unlocated
(U772)	N	50 02.742N; 002 01.383W	22/12/1944	-	Hydro	18451
(U322)	N	50 24.876N; 002 26.209W	30/12/1944	F	Hydro	18541
(U400)	N	50 33.272;N 005 11.635W	December 1944	-	Hydro	16715
U1199	Y	49 57.852; 005 42.604W	21/01/1945	A	Hydro	22609
(U650)	N	49 51.061N; 005 29.971W	January 1945	-	Hydro	22406
(U1208)	N	49 51.820N;006 06.806W	24/02/1945	B	Hydro	21809
U480	N	50 22.139N;001 44.243W	Post 24 February 1945	-	Hydro	19656
U1018	Y	49 56.571; 005 20.247W	27/02/1945	A	Hydro	22560
(U683)	N	50 31.401N;005 22.861W	Late February 1945	-	Hydro	16678
U275	Y	50 36.336; 000 03.123E	10/03/1945	A	Hydro	20384
U399	Y	49 56.526; 005 22.929W	26/03/1945	A	Hydro	22545
(U1021)	N	50 39.798N;005 05.068W	March 1945	-	Hydro	60228
U1195	Y	50 30.383; 000 56.302W	06/04/1945	A	Hydro	19919
U1063	Y	50 08.944; 003 53.468W	15/04/1945	A	Hydro	18022
(U325)	N	49 48.321N;005 12.444W	Post 30 April 1945	-	Hydro	22287
(U1279)	N	49 45.930N;005 45.270W	27/02/1945	B	Niestle	22326

Table 2.10. The list of World War Two U-boat losses in the Study Area as revised in 2012 as result of research carried out for this thesis (Innes McCartney).

## Appendix 2.5 ASW Attacks During the Inshore Campaign in the Study Area as Derived From AUD and Admiralty Sources (as listed)

### AUD Assessments (132 records)

AUD Reference	AUD Grade	Date	Comments	Position
AUD 1055/44	G	08/06/1944	Liberator B of 224sq	49 08 05 43W
AUD 1010/44	G	09/06/1944	Liberator B of 120sq	49 00 05 04W
AUD 1491/44	I	10/06/1944	DUCKWORTH COOKE and BRAITHEWAITE	49 49 03 18W
AUD 1032/44	G	10/06/1944	Liberator J of 224sq	49 15 04 15
AUD 1041/44	G	11/06/1944	Avenger G of 855sq	49 59 02 10W
AUD 1491/44	E	12/06/1944	ESSINGTON and BLACKWOOD	49 46 02 30W
AUD 1044/44	I	14/06/1944	HIND	50 10 03 40W
AUD 1334/44	F	15/06/1944	BICKERTON	49 22 05 28W
AUD 1491/44	F	15/06/1944	DUCKWORTH (see other AUD 1491/44)	50 07 02 15W
AUD 1078/44	F	18/06/1944	Liberator L of 53sq	49 12 05 32W
AUD 1154/44	A	18/06/1944	FAME INCONSTANT and HAVELOCK	49 03 03 13W
AUD 1156/44	G	18/06/1944	Liberator B of 110sq	49 36 02 35W
AUD 1093/44	F	21/06/1944	Wellington A of 304sq	50 13 03 18W
AUD 1173/44	I	22/06/1944	Liberator K of 110sq	49 50 01 56W
pg57 (no ref)	I	22/06/1944	Liberator E of 110sq	49 47 01 50W
AUD 1088/44	I	22/06/1944	Mosquito Q of 248sq	49 42 02 00W
pg60 (no ref)	G	22/06/1944	Liberator C of 547sq	49 13 04 27W
pg61 (no ref)	E	23/06/1944	Liberator C of 224sq	49 22 04 40W
pg63 (no ref)	H	23/06/1944	Liberator E of 103sq	50 02 03 15W
pg64 (no ref)	H	23/06/1944	Liberator M of 110sq	49 21 04 44W
pg65 (no ref)	F	23/06/1944	Liberator H of 103sq	49 10 03 10W
pg66 (no ref)	I	23/06/1944	Wellington B of 179sq	49 10 03 19W
AUDs 1128, 1186, 1227/44	A	24/06/1944	24/6/44 Liberator O of 311sq, HAIDA and ESKIMO	49 01 05 35W
AUD 1135/44	G	25/06/1944	Liberator N of 224sq	49 53 03 45W
AUD 1326/44	A	25/06/1944	BICKERTON	50 01 02 59W
AUD 1327/44	G	25/06/1944	AYLMER BLIGH and KEATS	50 03 02 51W
AUD 1170/44	B	25/06/1944	AFFLECK & BALFOUR	50 03 02 59W
AUD 1190/44	E	29/06/1944	Avenger A of 848sq and ONSLAUGHT	50 00 01 27W
AUD 1160/44	G	29/06/1944	ACANTHUS	50 14 00 45W
AUDs 1180 and 1302/44	B	30/06/1944	Liberator L of 224sq and ESSINGTON DUCKWORTH DOMMETT and COOKE	49 37 03 41W
AUD 1192/44	H	04/07/1944	Avenger M of 848sq	50 10 01 12W

AUDs 1172, 1198/44	I	3-6/7/44	BRISSENDEN ONSLAUGHT ORIBI SEYMOUR WENSLEYDALE and TALYBONT	50 10 00 15W
AUD 1183/44	A	05/07/1944	WANDERER and TAVY	49 49 00 48W
AUDs 1230, 1352/44	A	5-6/7/44	STATICE OTTAWA and KOOTENAY	50 32 0023W
AUD 1185/44	G	06/07/1944	Wellington E of 304sq	49 41 05 45W
AUD 1203/44	E	06/07/1944	Halifax N of 502sq	49 13 05 33W
AUD 1297/44	F	06/07/1944	BICKERTON	49 16 05 26W
AUD 1201/44	E	06/07/1944	RENONCULE	49 49 00 48W
AUD 1221/44	H	08/07/1944	Liberator B of 206sq	49 11 03 46W
AUD 1219/44	I	12/07/1944	Avenger Q of 848sq	50 12 01 10W
AUD 1250/44	F	13/07/1944	STARLING and 2EG	49 00 05 28.5W
AUD 1329/44	A	18/07/1944	BALFOUR	50 03 02 30W
AUD 1369/44	B	21/07/1944	CURZON and EKINS	50 27 00 13W
AUD 1287/44	H	24/07/1944	Avenger G of 848sq	49 55 01 17W
AUD 1311/44	I	24/07/1944	URANIA	50 12 00 45W
AUD 1318/44	H	24/07/1944	Avenger C of 855sq	50 22 00 56E
AUD 1310/44	F	25/07/1944	Wellington Y of 304sq	49 37 03 41W
AUD 1289/44	H	25/07/1944	Avenger Q of 848sq	49 55 01 15W
AUD 1493/44	XXX	25/07/1944	DUCKWORTH BRAITHWAITE and ESSINGTON	49 58 02 47E (Typo)
AUD 1403/44	F	25/07/1944	BICKERTON and BLIGH	50 13 02 05W
AUD 1288/44	A	26/07/1944	COOKE	49 55 03 31W
AUD 1350/44	F	30/07/1944	Wellington Z of 179sq	50 04 02 51W
M 08929/44	A	04/08/1944	STAYNER & WENSLEYDALE	50 23 00 06E
AUD 1390/44	H	05/08/1944	Wellington Y of 179sq	50 02 03 03W
AUD 1392/44	F	06/08/1944	Wellington O of 172sq	49 57 04 13W
AUD 1465/44	H	14/08/1944	OTTAWA	50 08 04 13W
M 09124/44	A	15/08/1944	ORCHIS	50 02 00 36W
AUD 1454/44	A	20/08/1944	FORESTER VIDETTE and WENSLEYDALE	50 21 00 01W
AUD 1516/44	H	28/08/1944	DAHLIA	50 03 04 51W
AUD 1561/44	A	01/09/1944	ST JOHN & SWANSEA	49 54 05 49W
AUD 1543/44	H	5-6/9/44	ST LAURENT OTTAWA and CHAUDIERE	50 45 06 04W
AUDs 1798, 1836/44	G	01/11/1944	NORTHERN WAVE & BRISSENDEN	49 54 05 23W
M 012058/44	H	02/11/1944	MALOY	50 12 02 14W"
M 012871/44	F	23/11/1944	ANTHONY	50 18 01 02W
AUD 1991/44	H	13/11/1944	Liberator Q of 224sq	50 44 04 03E(Typo?)
AUD 2010/44	F	13/12/1944	L'ESCARMOUCHE	50 06 01 11W
AUD 36/45	F	26/12/1944	Wellington F of 407sq	49 56 02 39W

AUD 16/45	H	29/12/1944	HOTHAM	50 10 00 47W
AUD 55/45	B	30/12/1944	Wellington L of 402sq	50 05 02 31W
AUD 28/45	F	21/12/1944	LOCH SHIN MELBREAK & PORTCHESTER CASTLE	50 11 01 33W
AUD 50/45	F	29/12/1944	CALGARY	50 26 02 28W
AUD 98/45	F	12/01/1945	FLINT	49 42 00 27W
AUD 177/45	A	21/01/1945	ICARUS & MIGNONETTE	49 57.8 05 42.7W
AUD 287/45	H	03/02/1945	MILFORD	49 58 05 42W
AUD 356/45	I	31/01/1945	66th MTBfl	50 35.5 02 14W
AUD 149/45	I	16/01/1945	SUNFLOWER	50 21 02 55W
AUD 366/45	I	13/02/1945	Catalina S of 63 Squadron	50 04 01 18W
AUD 380/45	F	23/02/1945	CALGARY	250 Portland Bill 20.5 miles
AUD 425/45	H	25/12/1944	DANIEL	50 20.30 03 09W
AUD 425/45	H	19/01/1945	MILLS	50 11 03 34W
AUD 326/45	H	17/02/1945	DIANTHUS	49 59 00 37W
AUD 437/45	E	22-24/2/45	ROWLEY & DOMMETT	49 47 04 58W
AUD 437/45	B	24/02/1945	3rdEG	49 55 06 08W
AUD 468/45	I	02/03/1945	CELANDINE	50 30 05 23W
AUD 627/45	A	27/02/1945	LOCH FADA	49 56.48 05 20W
pg38 (no ref)	F	07/03/1945	Barracuda Q of 810sq	50 12 02 06W"
AUD 550/55	A	10-11/3/45	10EG	50 36 00 04E
AUD 591/45	H	18/03/1945	Liberator U of 107sq	50 16 02 00W
AUD 623/45	A	26/03/1945	DUCKWORTH	49 56.4 05 22.4W
AUD 379/45	B	24/02/1945	Warwick K of 179sq	49 54 04 45W
AUD 454/45	I	07/03/1945	BULLDOG	50 01.5 05 51.5W
AUD 742/45	A	06/04/1945	WATCHMAN	50 33.20 00 55.55W
AUD 925/45	A	15/04/1945	CRANSTOUN & LOCH KILLIN	50 08.24 005 52W
AUD 785/45	B	29/03/1945	DUCKWORTH	49 58.1 05 25.1W
AUD 35/45	F	26/12/1944	MOORSOM and CRANSTOUN	49 45 01 54W

M 04647/45	H	20/04/1945	US SCs 1290, 1321, 1358 1330 and HMS TENBY	50 31 02 08W
AUD 627/45	B	12-13/3/45	LOCH RUTHVEN and WILD GOOSE	198 Wolfe Rock 3.2 miles
AUD 1079/44	H	18/06/1944	Wellington A of 304sq	49 03N 04 48W"
Barracuda F/810	G	06/03/1945		5016 0152W
Barracuda A/810	G	08/03/1945		5022 0210W
HOLMES	F	08/03/1945		5035.12N 0001.24W
ARTHUR SEWELL	F	29/12/1944	CALGARY & DAHLIA took up hunt and their assessment was F. This assessment reflects ARTHUR SEWELLS role in the action""	190deg Portland Bill 4.5miles
BRISTER	H	21/01/1945		50 19 02 12 w
REHEBOTH	H	03/02/1945		50 25 03 26w
OREMAR	G	22/02/1945		50 06 04 07w
PETTIT	I	26/02/1945		50 29.5 01 47w
RHODES	H	28/02/1945		49 57 03 47w
FINCH	H	01/03/1945		50 14.15 02 1.30w
FINCH	H	01/03/1945		50 28.50 00 47.08w
RICHEY	I	01/03/1945		49 48 00 43w
FINCH	H	06/03/1945		50 00.40 04 27w
VESPER	I	11/04/1945	Asdic evidence shows target was not a submarine"	5054. 3/4 0103.1/2E
Wellington S/304	H	22/04/1945		49 56 06 31w
Barracuda H/810	I	24/03/1944		50 02 01 02w
OSWALD	I	04/12/1944		49 30 06 04W
RAMSDEN	I	01/03/1945		50 00 00 29w
MILLS	I	06/03/1945		51 06 03 47w
BRISTER	I	06/03/1945	Other escorts took over this contact and by accurate fixes confirmed it as being non-sub contact ply59, a wreck"	50 29 05 25w
OSWALD	I	10/03/1945		49 17 05 48w
BURROWS	I	10/03/1945		50 40 03 01w

MILLS	I	19/04/1945	In view of the nonsub classification made at the time and the presence of a wreck in the vicinity the action is assessed I"	50 24 00 30w
MILLS	H	23/04/1945		49 40.5 05 51.5w
OSWALD	I	28/04/1945		50 02 03 53w
BURROWS	I	02/05/1945		50 24 02 24w
BURROWS	H	03/05/1945		49 46 05 35w
EBERT	I	04/05/1945		50 28 01 17w
EBERT	I	04/05/1945		5013 03 06w
MALOY & PC1263	I	22/04/1945		49 36 01 01w
USN A/C X/105	G	04/07/1944		4932 0337w
USN A/C B/110	I	30/12/1944		50 31 02 31w
HOWARD D CROW	H	19/04/1945		50 08.30 03 29.30w
AUD 627/45	B	27-28/2/45		49 46 05 47w

Table 2.11. AUD Assessments in the Study Area during the Inshore Campaign 1944-45 (Innes McCartney).

#### AUD Incidents (283 records)

AUD Incident No.	Comments	Position	
9342	Aircraft N?Y49 8/6/44	49-17.0000'N	005-45.0000'W
9346	FAA aircraft of 849sq 9/6/44	50-20.0000'N	003-02.0000'W
9351	Aircraft B/120 10/6/44	49-10.0000'N	005-30.0000'W
9354	HMCS QU'APPELLE 10/6/44	49-08.0000'N	005-42.0000'W
9358	HMCS ESCRAMOUCHE?? 11/6/44	49-28.0000'N	003-20.0000'W
9361	A?C of 850sq 11/6/44	50-00.0000'N	004-34.0000'W
9370	HMS RIOU 11/6/44	49-59.0000'N	005-32.0000'W
9372	Avenger 12/6/44	49-59.0000'N	002-22.0000'W
9374	A/C G/855 13/6/44	49-59.0000'N	002-10.0000'W
9378	WHITEHEAD 13/6/44	50-26.6361'N	000-51.0028'W
9382	HMS SCOURGE 14/6/44	50-22.6386'N	001-05.3087'W
9383	HMS ?????A?AY 14/6/44 the following day considered a wreck 9384"	50-31.0000'N	000-37.0000'W
9389	HMS HIND 15/6/44	50-08.5332'N	003-41.1056'W
9395	HMS MOURNS??? SUNK - ASW search being carried out 16/6/44	49-25.0000'N	005-30.0000'W
9397	HMS BLACKWOOD torpedoed - ASW search carried out 16/6/44	50-07.0000'N	002-15.0000'W
9412	SOEG sunk a U-boat. One survivor picked up by HMS FAME 19/6/44	49-03.0000'N	003-12.0000'W
9413	A/C MUR 70 19/4/44	49-33.0000'N	002-35.0000'W
9414	HMS DALIA 19/4/44	50-22.7178'N	003-02.7597'W

9416	HMCS CATINEAU? 19/6/44	50-17.9775'N	000-21.9695'W
9417	A/C Polish 304sq 19/4/44	49-00.0000'N	004-50.0000'W
9419	A/C L/53 20/6/44	49-12.0000'N	005-23.0000'W
9430	A/C Polish 304sq 21/6/44	50-15.0000'N	003-18.0000'W
9431	A/C 307/85 22/6/44	49-36.0000'N	004-16.0000'W
9433	A/C 22/6/44	49-36.0000'N	005-28.0000'W
9438	A/C TYI/71 23/6/44	49-13.0000'N	005-12.0000'W
9439	A/C JYR/65 23/6/44	49-50.0000'N	001-33.0000'W
9440	EG9 Promising contact 23/6/44	49-27.0000'N	003-10.0000'W
9442	A/C PWA 87 23/6/44 - no hits seen	49-42.0000'N	002-00.0000'W
9443	A/C SQT 33 - dived too long to have been hit 23/6/44	49-13.0000'N	004-21.0000'W
9444	A/C UQV/28 23/6/44	49-22.0000'N	004-40.0000'W
9446	A/C NXO/11 - HMS BICKERON to investigate 24/6/44	50-02.0000'N	003-15.0000'W
9448	A/C JUJ/49 24/6/44	49-23.0000'N	004-52.0000'W
9450	A/C NKQ/28 24/6/44	49-10.0000'N	003-10.0000'W
9450b	A/C ??B/19 24/6/44	49-10.0000'N	003-19.0000'W
9452	A/C NTX/85 25/6/44	49-04.0000'N	005-57.0000'W
9453	A/C of 103sq (USN) 25/6/44	49-00.0000'N	004-40.0000'W
9457	5eg SUNK U_BOAT - 25/6/44	50-00.0000'N	003-00.0000'W
9458	A/C LX/641 26/6/44 negative result	49-17.0000'N	003-22.0000'W
9461	SO of EG1 - good attack on U-boat 26/6/44	50-03.0000'N	002-59.0000'W
9462	HMS GOODSON torpedoed....26/6/44	50-00.0000'N	002-49.0000'W
9465	A/C L/224 27/6/44	49-00.0000'N	003-34.0000'W
9470	ASW Attack after HMS PINK torpedoed 28/6/44	49-48.0000'N	000-49.3600'W
9472	A/C of 848sq 30/6/44	50-00.0000'N	001-27.0000'W
9474	Port Colbourne causes massive explosion w hh. Thought wreck of HMS Blackwood 30/6/44	50-07.0000'N	002-07.0000'W
9475	A/C YSU/49 30/6/44	49-37.0000'N	003-04.0000'W
9480	HMS ESSINGTON? 2/7/44	49-35.0000'N	003-44.0000'W
9481	HMS FORRESTER 3/7/44	50-43.0000'N	000-02.0000'W
9482	HMCS CAPE BRETON 3/7/44	50-01.0000'N	004-35.0000'W
9487	A/C UVP/82 5/7/44	49-32.0000'N	003-37.0000'W
9488	HMS ONSLAUGHT 5/7/44	50-11.0000'N	000-17.0000'W
9493	A/C M/848 6/4/44 could be west - difficult to read"	50-10.0000'N	001-12.0000'E
9496	HMS WANDERER & TAVY SINK U_BOAT 6/7/44	49-49.4347'N	000-56.1703'W
9503	A/C KPQ/36 7/7/44	49-41.0000'N	005-45.0000'W
9481b	HMCS OTTOWA attack brings German stuff to surface	50-34.0266'N	000-33.6273'E
9508	A/C H/502 8/7/44	49-16.0000'N	005-26.0000'W
9509	A/C B206 9/7/44	49-11.0000'N	003-46.0000'W

9512	HMS TALYBONT 9/7/44 attacked on 8th considered doubtful"	50-02.0000'N	000-29.0000'W
9518	HMW WHUHBREL? 10/7/44	49-51.0000'N	000-46.5000'W
9530	A/C MBIQ? 13/7/44	50-12.0000'N	001-10.0000'W
9532	SO EG2 13/7/44	49-00.0000'N	005-27.0000'W
9535	HMS ROWLEY 14/7/44 considered non sub 9536 same place"	49-40.8640'N	000-30.4075'W
9536	HMS CAMPBELL 14/7/44	50-03.8898'N	000-41.5643'W
9539	HMS VIDETTE 14/7/44	49-56.6384'N	000-45.7833'W
9540	HMS ONSLAUGHT creeping attack 15/7/44	50-04.3000'N	004-14.4100'W
9541	HMS WENSLEYDALE - doubtful 15/7/44	49-39.0992'N	000-27.3135'W
9544	HMS STAYNER 17/7/44	49-42.0196'N	000-07.0624'W
9546	HMS???????? non sub 16/7/44	50-25.7140'N	000-10.4376'W
9550	ORF SLAZAE? non sub	50-27.0911'N	000-57.4090'W
9564	U_BOAT SCUTTLED	50-01.2331'N	003-20.2920'W
9571	CURZON and EKINS 21/7/44	50-30.0000'N	000-10.0000'W
9572	WANDERER ATTACK on contact brings up wreckage of US Destroyer 22/7/44	49-46.8805'N	001-09.3159'W
9575	CURZON & EKINS - chased radar contact and sure they destroyed sub here 23/7/44	50-27.0000'N	000-19.0000'W
9581	EG5 attack wreckage.. Oil and rubber seen	50-19.0000'N	002-13.0000'W
9582	HMS ??? and JERVIS attack contact 24/7/44	49-48.0000'N	001-37.0000'W
9585	Avenger attacked U-boat 25/7/44	49-56.0000'N	001-11.0000'W
9588	A/C attacked ASV contact 26/7/44	50-04.0000'N	000-42.0000'E
9589	A/C Y/304 attacked U-boat 26/7/44	49-37.0000'N	003-41.0000'W
9597	SO 3EG attack firm contact - wreckage seen 26/7/44	50-03.0000'N	002-58.0000'W
9600	HMS RECRUIT attack contact 27/7/44	50-05.0000'N	000-42.0000'W
9601	BRISSENDEN stationary target 27/7/44	50-02.0000'N	000-29.0000'W
9602	HMS WENSLEYDALE ROWLEY ONSLAUGHT.. contact brought up US made good and a lifebelt marked Firestone USA 27/7/44	49-49.7932'N	000-51.4086'W
9603	HMS COOKE - kill U214 27/7/44	49-56.0000'N	003-33.0000'W
9611	HMS CAMPBELL attacks contact 31/7/44	49-45.0000'N	000-28.0000'W
9612	HMCS CAPE BRETON reported 6EG attacking sub shaped contact 31/7/44	50-29.0000'N	000-34.0000'W
9632	9EG contact later classified wreck 3/8/44	50-08.0000'N	002-35.0000'W
9641	HMS STAYNER sink U671 - 6 survivors 5/8/44	50-24.1564'N	000-17.2201'E
9645	A/C attacks conning tower 6/8/44	50-02.0000'N	003-02.0000'W
9647	A/C UPN9 attacked U-boat estimated no hits 6/8/44	49-57.0000'N	004-13.0000'W
9661	HM Ship attacked contact 9/8/44	49-52.0000'N	000-56.0000'W
9664	A/C JNT.39 attacked submerged contact. no result 9/8/44	49-53.0000'N	003-42.0000'W
9666	A/C attacked submerged contact 10/8/44	49-38.0000'N	004-08.0000'W

9667	HMS WENSLEYDALE attacked bottomed contact 10/8/44	50-28.0000'N	001-19.0000'W
9669	A/C P/110 attacked periscope 10/8/44	49-39.0000'N	004-09.0000'W
9671	A/C call sign BUNO attacked submerged U-boat 10/8/44	49-03.0000'N	004-57.0000'W
9672	WENSLEYDALE attacked unknown contact 10/8/44	49-41.1073'N	000-25.3447'W
9686 (prev 9683)	LORING attacked contact w hh 12/8/44	50-20.0000'N	005-30.0000'W
9687 (prev 9684)	ONSLAUGHT on contact..bottomed 12/8/44	49-48.3000'N	001-37.0000'W
9695	HMCS ASSINIBONE attacks contact and explodes self-- 14/8/44	50-02.1391'N	004-06.3258'W
9712	ORCHIS sinks U741. posn given is actually 140deg 2miles E5 buoy. I have entered posn from my records..16/8/44	50-02.0000'N	000-36.0000'W
9723	WENSLEYDALE FORRESTER HAVELOCK AND VIDETTE attack contact 20/8/44	50-17.9174'N	000-33.1264'W
9728	WENSLEYDALE sink U413 21/8/44	50-21.4585'N	000-00.0629'E
9729	FORRESTER and WATCHMAN attacked contact 21/8/44	50-22.5380'N	000-05.1873'W
9753	HMS PRIMROSE attacked contact 21/8/44	50-05.0000'N	000-37.0000'W
9734	USS McCORMICK attacks good contact 21/8/44	50-26.0000'N	002-44.0000'W
9735	MTB 750 attacked U-boat 22/8/44	50-29.0000'N	002-44.0000'W
9752	A/C call sign NJN51 attacked U-boat 27/8/44	49-49.0000'N	003-50.0000'W
9760	HMS CAPE BRETON attacks 2 contacts 29/8/44	49-43.0000'N	000-32.0000'W
9763	HMS DAHLIA attacks contact 30/8/44	50-03.0000'N	004-49.0000'W
9767	VERSATILE & ROWLEY attack contact for 12 hours - consider wreck 30/8/44	50-04.0000'N	001-33.0000'W
9772	EG9 sinks U247 2/9/44	49-54.2777'N	005-49.8315'W
9784	HMS G???? non sub 4/9/44	50-30.0000'N	000-18.0000'W
9788	EG11 good contact 6/9/44	50-45.0000'N	006-02.0000'W
9790	EG9 attack contact 7/9/44	50-27.0000'N	005-43.0000'W
9818	A/C attacked disappearing contact 15/9/44	51-00.0000'N	006-07.0000'W
9819	FS ?????? attacking firm contact 16/9/44	49-56.6989'N	005-28.1741'W
9821	EG 11 wreck 18/9/44	51-14.4587'N	004-31.9822'W
10086	HMS SKOMER attacks suspicious contact 31/12/1944	49-25.0000'N	003-27.0000'W
7894	HMS VERSATILE 27/10/44 non sub but with secondary explosion"	49-58.0000'N	004-35.0000'W
7909	HMS NORTHERN WAVE. non sub but with secondary explosion 2/11/44	49-57.5458'N	005-19.9236'W
7912	MALOY attacked contact 3/11/44	50-12.0000'N	002-14.0000'W
7913	BRISSENDEN attacked contact 3/11/44	49-51.1878'N	005-05.3916'W

9919	A/C F/110 attacked U-boat 5/11/44	50-13.0000'N	002-19.0000'W
9921	HMS VESPER attacked contact 5/11/44	50-11.0000'N	001-43.0000'W
9923	MALOY repeatedly attacks contact 5/11/44	50-13.1690'N	001-59.8500'W
9948	SO of EG11 attacking bottomed contact 13/11/44	49-40.0000'N	005-42.0000'W
9955	MTB 750 two attacks on contact considered U-boat 17/11/44	50-09.7380'N	002-04.4440'W
9959	??/ attacked contact 18/11/44	50-18.0000'N	003-05.0000'W
9960	USS KOINER attacks known non sub target in this area 19/11/44	49-43.0000'N	005-40.0000'W
9963	EG 10 carried out attacks 20/11/44	50-18.0000'N	006-10.0000'W
9967	HMS ANTHONY attacked snorkel and gained asdic then lost sub 24/11/44	50-17.0000'N	001-03.0000'W
9972	HMCS OUTREMONT and LOCH MORLICH attacked bottom contact with squid 26/11/44	50-21.0000'N	001-08.0000'W
9975	SO EG6 attacked contact later thought wreck 27/11/44	50-16.4000'N	002-47.3000'W
9984	FS L'AVENTURE attacks probably non sub contact 4/12/44	50-07.0000'N	001-54.0000'W
9993	HARGOOD attacked radar and asdic contact then lost it 8/12/44	50-03.8295'N	000-48.9710'W
9994	SPRAGGE attacked firm contact no wreckage or oil 9/12/44	50-07.0000'N	001-39.0000'W
10008	SPRAGGE and ESCRAMOUCHE carried out a number of attacks in this area 13/12/44	50-12.0000'N	001-42.0000'W
10009	BALFOUR attacks promising contact - oil seen 14/12/44	50-21.9213'N	006-51.0285'W
10021	HMS BRILLIANT hh attack leading to 2 strong explosions 19/12/44	50-00.3000'N	000-56.2000'W
10024	ORP PIORUN attacks snorkel than loses contact 20/12/44	49-46.8805'N	004-02.3881'W
10030	MTB attacks doubtful contact 21/12/44	50-15.0000'N	001-18.0600'W
10033	EG10 attack bottom contact 21/12/44	49-34.0000'N	004-06.8000'W
10035	HMS LOCH SHIN attacked snorkel 22/12/44	50-10.4700'N	001-33.0000'W
10036	EG1 attacks promising target 22/12/44	49-53.0000'N	003-06.8000'W
10037	HMS LAUNCESTON CASTLE attacking moving contact 22/11/44	50-09.0000'N	001-41.0000'W
100035b	MELBREAK lost contact after attack 23/11/44	50-05.3000'N	001-22.3000'W
10040	MTBs of 66flot and LOCH SHIN attack contact 22/11/44	50-09.0000'N	002-02.0000'W
10042	EG1 attacks contact 23/12/44	49-56.0000'N	002-44.0000'W
10046	EG30 attacked contact 24/11/44	50-28.0000'N	001-34.0000'W
10047	66th MTB attack contact 24/11/44 reported as wreck the following day No. 10050"	50-11.0000'N	001-41.0000'W

10054	USS DANIELS attacks contact 25/12/44	50-12.0000'N	003-09.0000'W
10055	HMS KENILWORTH CASTLE attacks contact 25/11/44	50-22.0000'N	002-03.0000'W
10056	CAISTER CASTLE AND LAUNCESTON CASTLE attack contact 26/11/44	50-17.0000'N	001-39.0000'W
10058	MTB760 attacked promising contact 26/11/44 - ships carried out squid	50-30.2000'N	001-32.0000'W
10061	ANTHONY and CROIX DE LORRAINE attacked contact 26/11/44	50-35.2206'N	001-04.1594'W
10073	CRANSTOUN and MOORSOM attack good contact 28/12/44	49-49.0000'N	001-46.0000'W
10074	EG17 attacked several possibles 28/12/44	49-44.5000'N	001-45.5000'W
10075	A/C F/407 attacked snorkel 29/12/44	49-56.0000'N	002-00.0000'W
10081	HOTHAM good attack on contact 30/12/11	50-11.0000'N	000-47.8000'W
10082	counter attack after loss of two ships MTB 733 attacks contact 30/12/44	50-21.5253'N	002-27.2271'W
10086	HMS SKOMER attacks suspicious contact 31/12/44	49-25.0000'N	003-27.0000'W
10087	MTB760 attacks good contact 31/12/144	50-32.2000'N	002-32.0400'W
10088	A/C call sign JMJ99 attacked poss. periscope 31/12/44	50-28.0000'N	002-30.0000'W
10089	A/C L/407 attacked U-boat 31/12/44	50-05.0000'N	002-30.0000'W
10092	EG10 attacks bottomed target 1/1/45	50-03.4800'N	000-32.3000'W
10095	FS TONKINOIS attacks promising target 1/1/45	50-27.0000'N	001-21.0000'W
10097	FS LA DECOUVERTE attacks strong contact 2/1/45	49-55.0000'N	001-36.0000'W
10098	EG9 attacked contact 3/1/45	50-27.0000'N	005-40.0000'W
10101	14EG attacked strong contact later classified wreck 3/1/45	50-24.0000'N	002-54.0000'W
10119	EG9 attacked bottomed contact 9/1/45	49-59.0000'N	004-28.5000'W
10128	A/C call sign LGV.30 attacks U-boat 10/1/45	50-12.0000'N	002-21.0000'W
10141	HMS FLINT sights torpedo and attacks contact 13/1/45	49-42.0600'N	000-29.5600'W
10147	9EG attacked bottomed contact - poss. wreck 14/1/45	49-49.4292'N	005-48.3315'W
10162	9EG attacked bottomed contact 16/1/45	49-56.0333'N	005-39.3310'W
10163	HMCS RIBBLE attacked U-boat contact 16/1/45	50-26.2000'N	001-21.0000'W
10167	A/C K/838 attacked possible swirl 17/1/45	50-01.0000'N	001-19.0000'W
10170	HMS ROYAL MOUNT attacks contact 17/1/45 classified as U-boat"	49-54.0000'N	005-48.0000'W
10177	JONQUIERE? and RIBBLE attack contact prob non sub 18/1/45	49-34.2000'N	000-58.5000'W
10187	HMS DAHLIA attacked a contact 22/1/45	49-56.0000'N	005-35.0000'W
10192	ICARUS destroys U-boat - 1 survivor picked up (Innes U1199) 22/1/45	49-58.0297'N	005-42.6124'W

10214	FS RENOCULE carried out 4 attacks on contact 31/1/45	51-04.0000'N	004-48.0000'W
10219	66th MTB flot attacks contact 1/2/45	50-35.0000'N	002-14.0000'W
10222	EG26 attacks contact 1/2/45	50-21.5000'N	002-04.2000'W
10228	LAUNCESTON CASTLE (EG30) attacked contact oil seen poss. wreck 3/2/45	50-21.0000'N	002-57.0000'W
10230	A/C call sign KYO41 attacks U-boat 4/2/45	49-53.0000'N	005-44.0000'W
10234	66th MTB flot doubtful contact attacked 5/2/45	50-26.0000'N	002-00.0000'W
10243	EG14 attacks promising contact classified as submarine. 7/2/45	50-26.0134'N	001-10.7222'W
10244	EG14 attacked bottomed contact 7/2/45	50-31.3979'N	001-30.5046'W
10247	LOCH FADA prob wreck 8/2/45	50-14.0000'N	003-03.0000'W
10248	PORT ARTHUR attacked contact 8/2/45	50-22.0000'N	002-05.0000'W
10257	CONVOLVULUS attacked contact 10/2/45	50-28.0000'N	001-49.0000'W
10272	HMS SIDMOUTH attacked contact 13/2/45	50-24.0000'N	000-57.0000'W
10284	VELETA attacked poss. contact 15/2/45	50-22.0000'N	001-06.0000'W
10283	ML248 attacked contact 15/2/45	50-28.0488'N	002-42.8836'W
10292	HMS BALSOM attacked contact 17/2/45	49-45.0000'N	005-21.0000'W
10296	MTB757 3 attacks on bottomed contact 17/2/45	50-15.4000'N	000-03.4000'W
10302	MTB757 attacked prob non sub contact 18/2/45	50-16.0000'N	000-01.0000'W
10304	FS L'AVENTRE dropped patterns on wreck 18/2/45	50-33.0000'N	000-03.0000'W
10305	HMS VESPER (EAST?) attacked contact 18/2/45	50-34.0000'N	000-05.0000'E
10317	DUCKWORTH attack on promising target 19/2/45 reported suspected torpedo	50-04.0000'N	004-48.0000'W
10320	MTB760 attacked contact poss. non sub 20/2/45	50-15.0000'N	001-14.0000'W
10322	HMS FOWEY attacked doubtful contact 21/2/45	49-42.0000'N	006-50.0000'W
10323	HMS BADDECK? attacked contact 21/2/45	50-30.0000'N	001-51.0000'W
10334	COSBY attacked doubtful contact 22/2/45	50-30.0000'N	000-10.0000'W
103?0	A/C G/810 attacked periscope 23/2/45. No. in spine not readable	49-35.0000'N	001-03.0000'W
103??	USS DAVIS attacked poss. sub 23/2/45 (no in spine)	50-21.0000'N	002-10.0000'W
10347	ROWLEY & DOMMET attacked contact 24/2/45	49-47.0000'N	004-58.0000'W
10351	CALGARY form asdic contact - unexplained explosions 24/2/45	50-16.8963'N	002-50.1028'W
10352	ML178 3 attacks on contact 24/2/45	50-22.2981'N	002-41.3835'W
10354	Trawler ST ELSTAN attacked contact 24/2/45	50-20.0000'N	000-58.0000'W
10359	A/C call sign LYX20 attacked U-boat	49-54.0000'N	004-43.0000'W

	25/2/45		
10360	HMS BADDECK attacked contact 25/2/45	50-11.0000'N	003-31.0000'W
10361	SO EG3 destroyed U-boat - much evidence..(Innes U1208) 25/2/45	49-52.0000'N	006-07.0000'W
10362	MTB737 attacks contact later assessed as wreck 25/2/45	50-27.0000'N	002-44.0000'W
10363	DUCKWORTH attacks U-boat (Innes same attack as U1208?) 25/2/45 26/2/45 says read both attacks 10363 and 10361 as one attack"	49-55.0000'N	006-07.0000'W
10368	HMS LONDONDERRY hears loud underwater explosion 1 mile abeam of convoy (posn approx) 27/2/45	49-47.0000'N	005-17.0000'W
10374	MTB752 attacks contact - considered non sub 28/2/45	50-29.3000'N	000-58.3000'W
10375	HMS LOCH FADA sinks U-boat (Innes U1018) after attack on convoy 28/2/45	49-56.0938'N	005-21.3300'W
10376	HMS BERRY attacked doubtful contact 33deg 18miles lands end 28/2/45	50-18.9094'N	005-27.5200'W
10378	A/C call sign SF69 attacked smoke and wake 28/2/45	51-12.0000'N	005-41.0000'W
10379	UNIT GA attacked bottomed contact 1/3/45	50-28.0000'N	000-21.0000'W
10381	A/C call sign RNP19 attacked U-boat 1/3/45	50-00.0000'N	004-32.0000'W
10386	HMS LAUBAN counterattack after seeing torpedo 1/3/45	50-00.0000'N	005-00.0000'W
10389	SO EG2 reports U-boat destroyed (dinghy recovered) - poss. connected to 10375 (U1018 destroyed Innes) 1/3/45	49-46.0000'N	005-47.0000'W
10400	HMS CELANDINE periscope sighting and dc attack. later considered unreliable 2/3/45	50-33.0000'N	005-22.0000'W
10407	MTB747 attacked poss. contact 4/3/45	50-29.0000'N	003-01.0000'W
10412	HMS RIBBLE attacked bottomed U-boat. later considered one already destroyed on 24/2 (Innes U1208?) 4/3/45	49-52.0000'N	006-08.0000'W
10413	US Aircraft C/110 attacked a contact with 600lb d/c 4/3/45	49-52.0000'N	006-11.0000'W
10414	US A/C C/105 attacked contact with 600lb d/c 4/3/45	49-48.0000'N	005-47.0000'W
10424	HMS DORNOCH follows up on A/C sighting of oil. reported it was diesel and carried out attacks leading to more oil 6/3/45	50-28.5606'N	005-24.5978'W
10430	HMS VALETA attacks contact 7/3/45	49-40.9763'N	000-45.5634'W
10433	HMS JONQUIERRE attacks contact 7/3/45	50-31.0000'N	005-31.0000'W

10438	RENONCULE does 3 dc attacks and 2 hh attacks. the last attack 5 hh explode at 110ft. considerable debris came to surface 7/3/45	50-43.7227'N	004-59.1916'W
10441	A/C F/180 attacked swirl 8/3/45	50-16.0000'N	001-52.0000'W
10445	KILBRIDE attacked contact 8/3/45	51-10.4106'N	004-45.4333'W
10449	HMS BULLDOG attacked poss. U-boat 8/3/45	50-00.1885'N	005-51.9927'W
10455	A/C Q/107 attacked poss. U-boat 9/3/45	50-03.0000'N	006-04.0000'W
10470	A/C A/810 attacked smoke and wake 10/3/45	50-22.0000'N	002-10.0000'W
10479	DAHLIA attacked contact. Trace 108ft long 30ft high obtained 10/3/45	50-08.2500'N	004-45.3000'W
10493	SO EG10 attacked contact. Considerable German material comes to surface 12/3/45	50-40.0000'N	000-05.0000'E
10506	EG2 attacked stationary target much debris surfaced 15/3/45	49-54.5000'N	005-48.5000'W
10522	HMS CONCERTATOR and LORRAINE attacked periscope 16/3/45	50-36.0000'N	005-15.0000'W
10532	HMS BROCKLESBY attacks contact 17/3/45	49-19.0000'N	005-47.0000'W
10544	A/C call sign LTA12 attacked U-boat 18/3/45	49-25.0000'N	006-35.0000'W
10552	A/C call sign U/107 attacks contact 19/3/45	50-26.0000'N	001-55.0000'W
10555	ICARUS attacks doubtful contact 19/3/45	50-29.0000'N	000-52.0000'W
10558	ROYAL ULSTERMAN doubtful contact 20/3/45	50-35.0000'N	000-05.0000'E
10569	A/C SLK73 attacked oil slick 21/3/45	49-56.0000'N	006-15.0000'W
10579	BADDECK & VATERSAY attacked contact 22/3/45	50-10.6330'N	004-04.6280'W
10580	EG15 attacked around this position (where James Eagan Layne was attacked) and oil and bubbles came to surface after first hh attack 22/3/45	50-12.9027'N	004-07.0214'W
10585	5thEG attacked Contact 23/3/45	50-17.0000'N	000-02.0000'W
10595	A/C G/112 attacked positive U-boat contact 24/3/45	49-45.0000'N	006-20.0000'W
10597	MTB attacked contact - no results 24/3/45	50-18.0000'N	001-01.0000'E
10600	A/C JFC/15 attacked U-boat. Damage and debris reported 25/3/45	50-02.0000'N	001-02.0000'W
10605	SO EG3 reports U-boat destroyed (Innes U399) posn given is of sinking of SS PACIFIC just before. 26/3/45	49-54.6241'N	005-17.5716'W
10607	U399 sunk by DUCKWORTH 27/3/45 see also 10606"	49-56.5000'N	005-22.4000'W
10610	A/C LJN94 attacked submerged contact 27/3/45	49-57.0000'N	006-08.0000'W

10622	STONECROP attacked contact - considered wreck 28/3/45	50-20.9229'N	003-24.4871'W
10636	SUSSEX VALE attacks contact 30/3/45	50-25.0000'N	002-40.0000'W
10637	DUCKWORTH attacks contact 31/3/45	49-58.0000'N	005-25.0000'W
10640	HMS ROWAN reports U/W explosion 30/3/45	49-56.0000'N	005-33.0000'W
10655	SWEETBRIAR attacks contact 2/4/45	49-10.0000'N	006-50.0000'W
10763	GARLIES attacked contact 5/4/45	50-28.0000'N	002-38.0000'W
10686	HMS BERRY attacks non sub contact 6/4/45	49-55.1200'N	005-00.4800'W
10687	U1195 destroyed 7/4/45	50-33.3221'N	000-56.2681'W
10692	FS 'ESCARMOUCHE attacking good contact 7/4/45	49-42.0000'N	000-30.0000'W
10698	LUNDY - no result 8/4/45	50-12.7282'N	004-46.3490'W
10699	HMS SHIPPIGAN doubtful attack 8/4/45	50-04.2682'N	004-06.4230'W
10717	HMCS SUSSEX VALE attacked contact 10/4/45	50-22.0000'N	002-39.0000'W
10747	A/C P/228 escorting CU64 saw 3 unexplained U/W explosions 13/4/45	50-08.0000'N	003-58.0000'W
10771	HMCS RIVIERE DU LOUP good attack w hh explosions at 100 and 200ft 15/4/45 10772 - later considered non sub"	49-36.0000'N	006-40.0000'W
10777	HMS LOCH KILLIN sinks U1063 16/4/45	50-09.0000'N	003-53.5300'W
10816	A/C B/105 attacked possible snorkel 17/4/45	49-53.0000'N	001-15.0000'W
10819	HMCS CARAQUET attacked contact 19/4/45	50-14.0000'N	004-25.0000'W
10820	HMT LUNDY attacking sub posn 19/4/45"	50-11.6459'N	004-01.3643'W
10829	HMS BURDOCK attacked contact 21/4/45	49-50.0000'N	000-15.0000'W
10844	HMS GOOD HOPE attacks bottomed target 22/4/45	50-26.0000'N	002-54.0000'W
10857	A/C S/304 attacks swirl 24/4/45	49-57.0000'N	006-31.0000'W
10902	USS POOLE 1 hh attack - negative 27/4/45	49-52.0000'N	004-08.0000'W
10915	HMS BULLDOG responds to missed torpedo and attacks target. later classified non-sub 28/4/45	50-01.0000'N	003-54.0000'W
10922	17EG carried attacks on good contact 29/4/45	50-08.0000'N	003-47.0000'W
10945	A/C F/228 Attacked smoke and wake 3/5/45	50-12.0000'N	005-47.0000'W
10999	HMS CAMROSE reports unexplained explosion 15/5/45	49-45.7934'N	005-09.7931'W

Table 2.12. AUD Incidents in the Study Area during the Inshore Campaign 1944-45 (Innes McCartney).

**ASW Incidents in the Daily Admiralty Diary (418 records)**

Type	Date	Description	Position	
Attack	01/01/1945	TONKINOIS attacked good contact..	50°27.0000'N	001°21.0000'W
Attack	01/02/1945	EG26 non sub contact attacked..	50°21.0000'N	002°04.0000'W
Attack	01/03/1945	EG2 attacked contact..	49°46.0000'N	005°47.0000'W
Attack	01/03/1945	LAUBAN C/A after sight torp tracks..	50°00.0000'N	005°00.0000'W
Attack	01/07/1944		49°35.0000'N	004°46.0000'W
Attack	01/08/1944	EG9 accurate attacks on bottomed target - much oil.. paper trace speed wrong so original view n/s suggested suspect. Adm diary	50°08.0000'N	002°33.0000'W
Attack	01/08/1944	WALDEGRAVE attacked stationary contact.	49°48.0000'N	000°25.0000'W
Sunk	01/09/1944	U247 sunk by ST JOHN	49°54.4687'N	005°50.1772'W
oil	10/01/1944	Oil coming from contact which was buoyed..COTTON	50°07.7000'N	004°39.7000'W
Attack	10/02/1945	EG38 attacked contact..	50°29.0000'N	001°50.0000'W
Attack	10/03/1945	DAHLIA attacked contact..	50°08.0000'N	004°45.0000'W
Attack	10/04/1945	ROWLEY - thought wreck	49°55.0000'N	005°34.0000'W
Attack	10/07/1944	WHIMBREL attacked doubtful contract..	49°51.0000'N	000°47.0000'W
Attack	10/08/1944	ONSLAUGHT attacked U-boat..	49°49.0000'N	001°37.0000'W
Attack	11/07/1944	WANDERER & TAVY	49°49.6719'N	000°56.3777'W
Attack	11/07/1944	OTTOWA STATICE & KOOTENAY.. much wreckage from attack	50°32.5333'N	000°03.2185'W
Attack?	11/08/1944	LORING Contact" (attacked?) with submerged U-boat Adm diary	50°20.0000'N	005°30.0000'W
Attack?	11/08/1944	ONSLAUGHT contact (attacked?) ADM diary	49°46.3341'N	000°57.3152'W
Attack	12/11/1944	eg31 attacks bottom contact..	49°40.0000'N	005°42.0000'W
Attack	12/12/1944	SPRAGGE and ESCARMOUCHE attack bottom contact.. probably wk.	50°12.2000'N	001°42.0000'W
Attack	12/02/1945	SIDMOUTH attacks contact..	50°24.0000'N	000°17.0000'W
Attack	12/02/1945	LAUBAN attacked contact - big wreck	50°08.0900'N	004°08.5300'W
Attack	12/02/1945	SIDMOUTH attacked contact..	50°24.0000'N	000°57.0000'W
Attack	12/03/1945	EG10 attacked good contact...	50°40.0000'N	000°05.0000'E
explosions	12/04/1945	A/C P/228 escorting convoy saw three unexplained underwater explosions..	50°08.0000'N	003°58.0000'W
Attack	12/04/1945	GORE attacked contact..	50°18.0000'N	003°21.0000'W
Attack	12/07/1944	HM Ships attacked contact..	49°46.0000'N	003°20.0000'W
Attack	12/08/1944	ONSLAUGHT good attack on sub" adm diary	49°48.3000'N	001°37.0000'W
Attack	12/08/1944	LORING attacked submerged contact..	50°20.0000'N	005°30.0000'W
Attack	12/09/1944	EG11 picked part of a German torpedo the following day..	50°45.0000'N	006°02.0000'W
Attack	13/01/1945	HMT FIARAY attacked contact	49°41.0000'N	000°30.0000'W
Attack	13/01/1945	FIARAY attacked contact..	49°41.0000'N	000°30.0000'W
Attack	13/11/1944	EG31 attacks bottomed contact..	49°40.0000'N	005°42.0000'W

Attack	13/12/1944	ESCARMOUCHE & SPRAGGE attack probable snort - several attacks.. THIS IS PROBABLY 50 05!! as plotted no 50 50 as in diary - number reversal in adm diary	50°05.7000'N	001°11.2000'W
Attack	13/12/1944	ESCARMOUCHE attacks contact.. also see text of same day where posn is given as 50 50 (probably wrong)	50°05.0000'N	001°11.0000'W
Attack	13/03/1945	BULLDOG attacked asdic contact - early hh hits..	50°00.3268'N	005°51.8942'W
Attack	13/07/1944	BRISSENDEN on bottomed contact - Adm diary	49°51.1878'N	000°47.4709'W
Attack	13/07/1944	EG2 on enemy submarine" Adm Diary	49°00.0000'N	005°27.0000'W
Attack	13/07/1944	ONSLAUGHT attacks contact Adm Diary	50°04.3000'N	000°41.4100'W
Attack	13/07/1944	EG2 attacked periscope - heading northward..	49°00.0000'N	005°27.0000'W
Attack	14/01/1945	EG36 attacked doubtful contact..	50°32.0000'N	001°25.0000'W
Attacks	14/02/1945	A/C S/63 obtained contact.. EG17 attacked several doubtful contacts around 8 miles of this posn....	50°12.0000'N	001°28.0000'W
Attack	14/03/1945	EG2 attacked contact	49°52.0000'N	005°52.0000'W
Attack	14/07/1944	WENSLEYDALE attack on rock" Adm diary	49°45.4839'N	000°27.5948'W
Attack	14/07/1944	HM Ship made creeping attack..	50°04.0000'N	000°41.0000'W
Attack	14/07/1944	HM Ship attacked contact..	49°53.0000'N	000°45.0000'W
Attack	14/07/1944	HM Ship attacked good contact	50°04.0000'N	000°40.0000'W
Attack	14/08/1944	HM Ship attacked contact..	50°02.0000'N	004°07.0000'W
Attack	15/02/1945	ML248 attacked contact	50°26.0000'N	002°42.0000'W
Attack	15/02/1945	MTB750 attacked contact	50°14.0000'N	001°13.0000'W
Attack	15/02/1945	VELETA attacked contact..	50°22.0000'N	001°06.0000'W
Attack	15/03/1945	CONCERTATOR & LORRAINE attack contact	50°36.0000'N	005°15.0000'W
Underwater explosion	15/03/1945	ROLFSBURG heard underwater explosion	50°34.0000'N	005°07.0000'W
Attack	15/07/1944	AFFLECK - good attacks considered target destroyed - oil collected Adm diary	49°55.2400'N	004°31.4800'W
Attack	15/07/1944	STAYNER attack Adm diary	49°41.8372'N	000°07.8125'W
Attack	15/07/1944	HM Ship attacked doubtful contact....	49°46.0000'N	000°29.0000'W
known wreck	16/01/1945	Non sub contact known at this location..	49°54.3000'N	005°48.3000'W
Attack	16/01/1945	ROYAL MOUNT & ARNPRIOR good attack..	49°34.0000'N	006°10.0000'W
Attack	16/01/1945	RIBBLE attacked contact..	50°26.0000'N	001°21.0000'W
Attack	16/01/1945	A/C k/8383	50°01.0000'N	001°19.0000'W
Attack	16/01/1945	EG9 attacked contact	49°54.0000'N	005°40.0000'W
Attack	16/11/1944	MTB 750	50°09.1200'N	002°03.1200'W
Attack	16/02/1945	MTB 757 attacked contact	50°15.8000'N	000°01.5000'W
Attack	16/02/1945	MTB757 attacks contact	50°15.4000'N	000°03.4000'W
Attack	16/02/1945	42nd M/S Flotilla attacked possible U-boat contact..	51°20.0000'N	001°52.0000'E

Attack	16/02/1945	BALSAM attacked contact..	49°45.0000'N	005°21.0000'W
Sunk	16/04/1945	U1063 LOCH KILLIN	50°09.2000'N	003°53.3000'W
Attack	16/07/1944	MELBREAK - considered non sub Adm diary	50°23.9167'N	000°03.5935'W
Attack	16/07/1944	SLAZAK Adm dairy	50°27.2108'N	000°57.4090'W
Attack	16/07/1944	HM Ship attacked contact..	49°41.0000'N	000°09.0000'W
Attack	16/08/1944	HM Ship attacked U-boat	50°03.0000'N	000°38.0000'W
Attack	16/09/1944	FS RENONCULE	49°58.0000'N	005°30.0000'W
Attack	17/01/1945	RIBBEL FS attacking firm contact..	49°34.2000'N	000°58.5000'W
Attack	17/01/1945	HMCS ROYAL MOUNT attacked contact	49°35.0000'N	006°11.0000'W
Attack	17/11/1944	MTB 750	50°10.0000'N	002°06.0000'W
Attack	17/11/1944	ML 1405 attacked contact..	50°18.0000'N	003°05.0000'W
Attack	17/02/1945	DIANTHUS attacked contact..	49°59.0000'N	000°37.0000'W
underwater explosions	17/02/1945	A/S Trawler BRONTES	49°48.0000'N	001°14.0000'W
Attack	17/02/1945	MTB 757 attacked contact	50°15.0000'N	000°03.0000'W
Attack	17/02/1945	DIANTHUS attacked contact	49°59.0000'N	000°37.0000'W
Attack	17/02/1945	MTB 757 attacked contact...	50°16.0000'N	000°01.0000'W
Attack	18/11/1944	USS KOINER attacking contact..	49°43.0000'N	005°40.0000'W
Attack	18/11/1944	USS KOINER attacks contact..	49°43.0000'N	005°40.0000'W
Attack	18/12/1944	BRILLIANT hh attack	50°00.3000'N	000°56.2000'W
Attack	18/02/1945	VESPER attacked contact..	50°36.0000'N	000°03.0000'E
Attack	18/02/1945	FS L'AVENTUERE attacked contact..- probably wreck	50°33.0000'N	000°03.0000'E
Attack	18/04/1945	CARAQUET and MINAS attack contact..	50°14.3000'N	004°25.0000'W
Attack	18/04/1945	A/C B/105 attacked snort w bombs	49°53.0000'N	001°15.0000'W
Attack	18/06/1944	DAHLIA - Adm diary 249 Portland Bill 23.8 miles	50°22.4156'N	003°02.2564'W
Attack	18/06/1944	GATINEAU AD diary 115 st Catherine's 40 miles..	50°17.7372'N	000°20.9382'W
Sunk	18/06/1944	Havelock & Fame U767 Adm diary 49 03.02; 003 13.06	49°02.8424'N	003°12.9419'W
Air Attack	18/06/1944	Adm Diary 49 12 05 23w	49°12.0000'N	005°23.0000'W
Attack	18/06/1944	A/c L/53 attack	49°12.0000'N	003°23.0000'W
Attack	18/06/1944	A/C of 105sqd attack	48°50.0000'N	004°30.0000'W
Attack	18/08/1944	FORESSTER & VIDETTE - inaccurate posn	50°00.0000'N	001°00.0000'W
Attack	19/11/1944	EG10 attacked contact..	50°18.0000'N	006°10.0000'W
Sunk	19/12/1944	U1209	49°57.0000'N	005°47.0000'W
Attack	19/12/1944	FS LA SURPRISE 3 attacks (maybe 00 47w (sic))	49°33.0000'N	000°41.0000'W
Attack	19/12/1944	FS LS SURPRISE (maybe 00 41 W (sic))	49°33.0000'N	000°47.0000'W
Attack	19/02/1945	MTB 760 attacked contact	50°15.0000'N	001°14.0000'W
Attack	19/03/1945	A/C U/107 attacked wake and swirl..	50°28.0000'N	001°55.0000'W
Attack	19/03/1945	ICARUS attacked doubtful contact	50°29.0000'N	000°53.0000'W
Attack	19/03/1945	LOYAL ULSTERMAN attacked contact	50°35.0000'N	000°05.0000'E
Attack	19/04/1945	LUNDY attacks contact	50°11.8453'N	004°00.7942'W

Attack	19/06/1944	EG 14 poss. U-boat	49°03.0000'N	003°13.0000'W
Attack	19/06/1944	A/C B/110 attack w dcs	49°36.0000'N	002°33.0000'W
Attack	19/06/1944	A/C A/304	49°00.0000'N	004°50.0000'W
Attack	19/06/1944	EG5 contact attacked w dcs & hh	49°09.0000'N	005°24.0000'W
Attack	19/06/1944	DAHLIA attack	50°22.0000'N	003°04.0000'W
Attack	19/06/1944	HMCS GATINEAU attack	50°17.0000'N	000°22.0000'W
Attack	02/01/1945	EG14 attacked wk w hh - oil and air came up..	50°24.0000'N	002°54.0000'W
Attack	02/01/1945	FS LA DECOUVERTE attacked contact..	49°45.0000'N	001°36.0000'W
Attack	02/11/1944	EG31 attacks contact 5 x hh and then d/c - much oil and bubbles..	50°12.0000'N	002°14.0000'W
Attack	02/11/1944	NORTHERN WAVE doubtful contact	49°56.0000'N	005°23.0000'W
Underwater Explosion	02/12/1944	SS THOMAS WOLFE reported u/w explosion and large quantities of oil..	49°46.0000'N	000°39.0000'W
Attack	02/05/1945	A/C F/228 attacked smoke and wake	50°12.0000'N	005°47.0000'W
Attack	02/08/1944	EG9 Attacked contact..	50°08.0000'N	002°35.0000'W
Attack	02/08/1944	EG9 attacked contact	50°08.0000'N	002°35.0000'W
Attack	02/09/1944	STORMONT & MEON	50°45.0000'N	004°55.0000'W
Attack	02/09/1944	ST JOHN	49°46.0000'N	005°51.0000'W
Attack	02/09/1944	EG9	50°46.0000'N	004°54.0000'W
Attack	20/10/1944	USS O'TOOLE	49°30.0000'N	006°55.0000'W
Attack	20/12/1944	MTB 752 attack	50°15.0000'N	001°18.6000'W
Attack	20/12/1944	EG1 attack on bottomed contact - sub size..	49°34.0000'N	004°06.8000'W
Attack	20/12/1944	PS PIORUN attacked contact..	49°44.0000'N	004°04.0000'W
Attack	20/02/1945	MTB 760 attacked contact	50°15.0000'N	001°14.0000'W
Attack	20/04/1945	BURDOCK attacks contact	49°49.0000'N	000°15.2400'W
Attack	20/06/1944	3EG Good attack - movement, then bubbles after attack - trace of submarine..	49°49.0000'N	003°19.0000'W
Attack	20/06/1944	HIND counterattack after being missed by 2 torps..- oil raised, but lost contact..	50°11.0000'N	003°42.0000'W
Sunk	20/06/1944	14EG attacked and sunk U-boat.. 1 survivor picked up	49°03.0000'N	003°13.0000'W
U672 pick up point	20/07/1944	Posn air was vectored to pick up survivors. Adm diary	50°01.2935'N	003°20.1044'W
Sunk	20/08/1944	U413 sunk by WENSLEYDALE adm diary	50°21.1773'N	000°01.5581'W
Attack	20/08/1944	FORRESTER & VIDETTE Adm diary	50°21.6984'N	000°06.3124'W
Attack	20/08/1944	MCCORMICK attack adm diary	50°26.4000'N	002°43.9000'W
Attack	20/08/1944	HMCS ANNAN attacked contact..	50°08.0000'N	000°40.0000'W
Attack	20/08/1944	WENSLEYDALE FORRESTER attacked contact..	50°19.0000'N	000°36.0000'W
Attack	20/08/1944	EG6 attacked contact.	50°10.0000'N	000°37.0000'W
Attack	20/08/1944	A/C L/103 attacked U-boat with bombs..	49°18.0000'N	003°26.0000'W
Sunk	21/01/1945	ICARUS sunk U-boat here - 1 survivor picked up.	49°57.8482'N	005°42.7061'W
Attack	21/12/1944	LOCH SHIN snorkel attacked..	50°10.4700'N	001°33.0000'W

Attack	21/12/1944	PEVENSEY CASTLE, PORTCHESTER CASTLE, & LOCH SHIN attacking periscope..	50°11.0000'N	001°33.0000'W
Attack	21/12/1944	EG1 CAPEL attacking sub contact.. bottomed -oil, sub shape	49°53.0000'N	003°06.8000'W
Attack	21/12/1944	EG1 attacked bottomed contact..	49°34.0000'N	004°06.0000'W
Attack	21/12/1944	MTB 752 attacked contact..	50°15.0000'N	001°18.0000'W
Attack	21/02/1945	FOWEY doubtful contact	49°42.0000'N	006°50.0000'W
Attack	21/02/1945	WASAGA attacked contact	49°43.0000'N	001°30.0000'W
mined u-boat?	21/03/1945	Thought mined U-boat - to be dived..	50°03.1200'N	000°00.3600'E
Attack	21/03/1945	A/C M/103 attacked moving oil slick	49°56.0000'N	006°15.0000'W
Attack	21/06/1944	A/C A/304	50°00.0000'N	002°50.0000'W
Attack	21/06/1944	Mosquito attack..	49°09.0000'N	002°52.0000'W
Attack	21/07/1944	HM Ships attacked contact..	50°27.0000'N	000°19.0000'W
Attack	21/08/1944	MTB adm diary	50°29.9630'N	002°49.6340'W
Attack	21/08/1944	WENSLEYDALE attacked U-boat	50°23.0000'N	000°09.0000'W
Attack	21/08/1944	PRIMROSE attacked contact..	50°05.0000'N	000°37.0000'W
Attack	21/08/1944	McCORMICK attacked contact..	50°26.0000'N	002°44.0000'W
Attack	21/08/1944	MTB 750 attacked U-boat	50°29.0000'N	002°44.0000'W
Attack	22/01/1945	DAHLIA attacked contact..	49°56.0000'N	005°35.0000'W
Attack	22/01/1945	ICARUS attacked contact..	49°58.0000'N	005°42.0000'W
Attack	22/12/1944	PORTCHESTER CASTLE attacks good contact	50°06.0000'N	001°21.3000'W
Attack	22/12/1944	MELBREAK attacks contact in concert with PORTCHESTER CASTLE	50°05.3000'N	001°22.3000'W
Known non sub 22/12/44	22/12/1944	Non sub No. 13 fixed here - Adm diary mention.	49°55.0800'N	003°04.4600'W
Attack	22/12/1944	attack on contact - assessed as non sub	49°56.8000'N	002°44.0000'W
Attack	22/12/1944	MTB 737 in contact with submarine...	50°09.0000'N	002°02.0600'W
Attack	22/12/1944	MTB 737 second attack	50°02.0000'N	002°02.0000'W
Attack	22/12/1944	EG1 attack on bottom contact..	49°53.0000'N	003°07.0000'W
Attack	22/02/1945	A/C G/810 attacked contact	49°35.0000'N	001°03.0000'W
Attack	22/02/1945	COSBY attacked contact..	50°30.0000'N	000°10.0000'W
Attack	22/03/1945	EG 5 attacked contact... later listed as known wreck	50°17.0000'N	000°02.0000'W
Air Attack	22/06/1944	Adm diary - floating wreckage seen after attack.	49°13.0000'N	005°12.0000'W
Attack	22/06/1944	Adm diary.. oil and air bubble after d/c EG 2..sono buoy also picked up - LOCH KILLIN	49°19.0000'N	005°27.0000'W
Attack sunk?	22/07/1944	HH double explosion by BALFOUR. posn plotted with QH. classified non-sub later Adm diary	50°03.0000'N	002°30.0000'W
Attack	22/07/1944	Attack by EG5 with gave off bales of rubber on all 3 attacks. Adm diary	50°19.5000'N	002°13.0000'W
Attack	22/08/1944	HM Ship attacked contact..	50°18.0000'N	000°51.0000'W
Attack	23/01/1945	DIANTHUS attacked contact..	49°51.0000'N	000°45.0000'W

Sunk	23/01/1945	EG14 sunk U-boat and picked up survivor	49°56.6869'N	005°42.4849'W
Attack	23/11/1944	ANTHONY attack U-boat snorkel..	50°17.0000'N	001°03.0000'W
Attack	23/12/1944	Attack on bottom Contact.. PEARL	50°28.0000'N	001°33.3000'W
Attack	23/12/1944	FITZROY - prob non sub	50°14.1915'N	003°03.0410'W
Attack	23/12/1944	FITZROY attack - prob non sub	50°13.7104'N	003°04.3536'W
Attack	23/12/1944	30 EG attacked contact..	50°06.0000'N	001°21.0000'W
Attack	23/02/1945	ROWLEY & DOMMET attacked contact	49°47.0000'N	004°58.0000'W
Attack	23/02/1945	USS DAVIS attacked contact..	50°21.0000'N	002°10.0000'W
Attack	23/04/1945	GODETIA attacks contact..	50°43.0000'N	004°57.0000'W
Attack	23/04/1945	ML 396 attacks contact..	51°05.8910'N	004°38.9398'W
Attack	23/04/1945	A/C L/110 attacks u-boat	49°44.0000'N	001°05.0000'W
Attack	23/06/1944	A/C M/103 attack	49°13.0000'N	005°12.0000'W
Attack	23/06/1944	A/C N/103	49°26.0000'N	005°23.0000'W
Attack	23/06/1944	A/C K/110	49°50.0000'N	001°51.0000'W
Attack	23/06/1944	A/C E/110	49°50.0000'N	001°38.0000'W
Attack	23/06/1944	A/C Q/246	49°42.0000'N	002°00.0000'W
Attack	23/06/1944	A/C C/547	49°13.0000'N	004°21.0000'W
Attack	23/06/1944		49°23.0000'N	004°40.0000'W
Attack	23/07/1944	EG5 attacked contact	50°19.0000'N	002°13.0000'W
Attack	24/12/1944	PEVENSEY CASTLE squid attack - considered wreck	50°11.1200'N	001°43.1200'W
Attack	24/12/1944	MTB731 attacked bottom contact..	50°11.0000'N	001°41.0000'W
Attack	24/12/1944	FITZROY attacked contact	50°15.0000'N	003°06.0000'W
Attack	24/12/1944	FITZROY attacked contact	50°13.0000'N	003°07.0000'W
SUNK	24/02/1945	ROWLEY - U1208	49°52.0000'N	006°07.5000'W
underwater explosion	24/02/1945	CALGARY contact and unexplained explosion	50°20.0000'N	003°00.0000'W
Attack	24/02/1945	ML178 attacked contact..	50°20.0000'N	002°40.0000'W
Attack	24/03/1945	MTB attacked bottom target..	50°18.0000'N	001°02.0000'E
Attack	24/04/1945	GODETIA attacks contact.	50°43.0000'N	004°56.0000'W
Attack	24/04/1945	A/C V/63 attacks contact	50°24.0000'N	005°25.0000'W
Attacks	24/04/1945	EG17 attacks contacts in this area	50°26.0000'N	005°25.0000'W
Attack	24/04/1945	GODETIA attacked contact	50°43.0000'N	004°57.0000'W
Attack	24/04/1945	ML396 attacked contact..	51°06.0000'N	004°37.0000'W
Attack	24/04/1945	A/C V/65 attacked contact	50°24.0000'N	005°25.0000'W
Attacks	24/04/1945	EG17 attacked several contacts in this approx area..	50°26.0000'N	005°25.0000'W
Attack	24/06/1944	A/C H/103	49°10.0000'N	005°10.0000'W
Attack	24/06/1944	A/C B/179	49°10.0000'N	003°19.0000'W
Attack	24/06/1944	A/C E/103	50°08.0000'N	003°15.0000'W
Attack	24/07/1944	ONSLAUGHT attack Adm diary	50°13.1690'N	000°45.1270'W
Attack	24/07/1944	HM Ship attacked contact	49°49.0000'N	001°37.0000'W
Attack	24/07/1944	A/C attacked ASV contact..	50°04.0000'N	000°42.0000'E
Attack	24/08/1944	HMT KINGSTON CHRYSOBERYL attacked contact with D/Cs	50°23.0000'N	000°57.0000'W

Attack	25/11/1944	HMCS OUTREMONT & LOCH MORLICH squid on bottom contact.	50°21.0000'N	001°08.0000'W
Attack	25/11/1944	OUTRAMONT several attacks..	50°21.0000'N	001°08.0000'W
Attack	25/12/1944	CAISTOR CASTLE and LAUNCESTON CASTLE attacked contact.. prob wreck	50°17.0000'N	001°39.3000'W
Attack	25/12/1944	USS DANIELS poss. U-boat attacked..	50°20.3000'N	003°09.0000'W
Attack	25/12/1944	KENILWORTH CASTLE attacked bottomed contact..	50°22.0000'N	002°03.0000'W
Attack	25/12/1944	KENILWORTH CASTLE attacked non sub..	50°20.2000'N	002°02.5400'W
Attack	25/12/1944	30EG attack contact considered small non sub	50°31.1000'N	001°31.3000'W
Attack	25/12/1944	ANTHONY and CROIX DE LORRAINE attacked contact..	50°35.2327'N	001°05.5501'W
Attack	25/12/1944	CAISTER & LAUNCESTON CASTLES attacked contact.	50°17.0000'N	001°39.0000'W
Attack	25/12/1944	USS DANIELS attacked contact..	50°21.0000'N	003°09.0000'W
Attack	25/12/1944	KENILWORTH CASTLE attacked contact..	50°22.0000'N	002°03.0000'W
Attack	25/02/1945	HM Trawler attacks contact..	49°04.0000'N	005°31.0000'W
Attack	25/02/1945	EG 3 attacks contact..	49°55.0000'N	006°07.0000'W
Attack	25/02/1945	A/C K/179 attacked poss. snort..	49°54.0000'N	004°43.0000'W
Attack	25/02/1945	BADDECK attacked contact..	50°12.0000'N	003°31.0000'W
Attack	25/02/1945	FS TURQUOISE attacked contact..	51°20.0000'N	002°19.0000'E
Attack	25/03/1945	A/C H/810 attacked U-boat..	50°02.0000'N	001°02.0000'E
Contact	25/06/1944	FAME investigating contact - Adm diary	49°22.0000'N	003°37.0000'W
Sunk	25/06/1944	U269 sunk by BICKERTON - very vague posn in adm diary	50°00.0000'N	003°00.0000'W
Attack	25/06/1944	CORE & CAPEL post Goodson attack.. Adm diary. Gave off oil and no fish seen adm diary of 26/6/44 - considered sunk U-boat by EG c/o.	50°03.0000'N	002°59.0000'W
Attack	25/06/1944	A/C Q(or O)/311	49°04.0000'N	003°47.0000'W
Attack	25/06/1944	A/C Q/179	49°58.0000'N	003°06.0000'W
Attack	25/06/1944	A/C N/224 dcs	49°33.0000'N	003°45.0000'W
Attack	25/06/1944	BICKERTON dc U-boat	50°00.0000'N	003°00.0000'W
Attack	25/06/1944	A/C J/103	49°00.0000'N	004°40.0000'W
Attack	25/07/1944	ONSLAUGHT - profile of a submarine Adm dairy - on land.. same error in AUD incidents	49°12.6000'N	000°45.3000'W
Attack	25/07/1944	grease tube" attack by EG5 Adm diary	50°03.1655'N	002°58.1657'W
Attack	25/07/1944	EG5 attack probable sub Adm diary	50°12.0000'N	002°04.0000'W
Attack a/c	25/07/1944	A/C attacked sighted u-boat Adm diary	49°37.0000'N	003°41.0000'W
Attack	25/07/1944	ONSLAUGHT counter attack after SAMNEVA torpedoed (u309)...adm diary says contact" so attack may not have happened.. U309 was sunk in 1945"	50°15.0000'N	000°53.0000'W
Attack	25/07/1944	ONSLAUGHT attacked contact..	50°15.0000'N	000°53.0000'W
Attack	26/10/1944	VERSATILE - 2nd loud u/w explosion after	49°58.0000'N	004°35.0000'W
Attack	26/11/1944	Escarmouche attacked contact	49°48.0000'N	000°31.0000'W

Attack	26/12/1944	CRANSTON & MOORSOM attack contact after AFFLECK hit	49°49.0000'N	001°46.0000'W
Attack	26/12/1944	A/C attack poss. U-boat	49°56.0000'N	002°39.0000'W
Attack	26/12/1944	AFFLECK sighted and attacked snort	49°54.0000'N	001°48.0000'W
explosion	26/02/1945	HMS LONDONDERRY reports heavy u/w explosion	49°47.0000'N	005°17.0000'W
Sunk	26/03/1945	ROWLEY sunk U399	49°56.5000'N	005°22.4000'W
Attack	26/04/1945	EG20 contact attacked	49°09.4000'N	005°39.6000'W
Attack	26/04/1945	NARBOROUGH & POOLE attack contact.	49°52.0000'N	004°08.0000'W
Attack	26/06/1944	A/C B/103	49°17.0000'N	003°22.0000'W
Attack	26/06/1944	A/C L/224 attacked oil slick..	49°00.0000'N	003°34.0000'W
Attack	26/06/1944	EG1 attacked contact..	50°03.0000'N	002°59.0000'W
Oil	26/07/1944	Oil from wreck - EG5 ex attack Adm diary	50°13.0000'N	002°15.0000'W
Attack sunk?	26/07/1944	Target yielded Oil, German log book, clothes etc. COOKE -	49°56.0000'N	003°33.0000'W
Attack non sub	26/07/1944	Firestone lifebelt attack ONSLAUGHT Adm diary	49°49.6719'N	000°51.9712'W
Attack	26/07/1944	BRISSENDEN attacked stationary contact..	50°02.0000'N	000°36.0000'W
Attack	26/07/1944	RECRUIT attacked contact..	50°05.0000'N	000°42.0000'W
Attack	26/07/1944	A/C E/110 attacked submerged contact..	49°58.0000'N	002°47.0000'W
Attack	26/07/1944	EG3 attacked firm contact..	50°07.0000'N	002°58.0000'W
Attack	26/07/1944	CURZON & EKINS attacked contact - oil then contact faded..	50°27.0000'N	000°19.0000'W
Attack	27/01/1945	EG 30 doubtful non sub	49°58.1800'N	005°31.1800'W
Attack	27/01/1945	MTB 752 attacked contact.	49°43.0000'N	001°47.5000'W
Attack	27/11/1944	3 ships attacked bottom contact - thought rock	50°16.4000'N	002°47.3000'W
Attack	27/12/1944	EG17 attacked contact -	49°44.3000'N	001°45.3000'W
Attack	27/12/1944	EG17 attack	49°50.0000'N	001°41.0000'W
Attack	27/12/1944	CRANSTOUN & MOORSOM attack	49°49.0000'N	001°46.0000'W
Attack	27/12/1944	A/C F/407 attacked contact..	49°56.0000'N	002°39.0000'W
Sunk	27/02/1945	LOCH FADA.. 2 survivors	49°56.1543'N	005°20.8612'W
Attack	27/02/1945	ROWLEY & DOMMET - rubber sheets...	49°47.6697'N	004°56.8598'W
Attack	27/03/1945	STONECROP attack contact..	50°13.4096'N	003°28.8237'W
Attack	27/03/1945	STONECROP attacks contact	50°10.0392'N	003°34.1677'W
Attacks	27/04/1945	All considered non sub BULLDOG..	50°06.6044'N	003°59.5754'W
Attack	27/04/1945	POOLE attacked contact..	49°52.0000'N	004°08.0000'W
Attack	27/06/1944	counterattack by ROCHESTER after PINK attacked/mined. HH hit claimed.. oil and lifebelt picked up. then contact lost. Adm diary	49°48.0000'N	000°49.3600'W
Attack	27/06/1944	HM Ship attacked contact	50°09.0000'N	001°54.0000'W
Attack	27/07/1944	ONSLAUGHT & ORBIRI attack Adm diary	50°26.3600'N	001°00.4800'W
Attack	27/07/1944	HM Ship attacked contact..	49°56.0000'N	003°33.0000'W
Attack	27/08/1944	A/C E/103 attacked contact with bombs	49°49.0000'N	003°43.0000'W
Attack	28/02/1945	LOCH FADA attacked U-boat	49°56.0000'N	005°21.0000'W

Attack	28/02/1945	MTBs attacked contact	50°28.0000'N	002°19.0000'W
Attack	28/02/1945	BERRY attacked contact..doubtful	50°19.0000'N	005°28.0000'W
Attack	28/03/1945	STONECROP - non sub	50°14.0000'N	003°32.0000'W
Attack	28/04/1945	EG17 attacks contact..	50°08.1000'N	003°47.0000'W
Attack	28/04/1945	BULLDOG attacks contact..	50°04.0000'N	004°00.0000'W
Attack	28/04/1945	BULLDOG attacks contact..	50°06.0000'N	003°51.0000'W
Attack	28/06/1944	ROCHESTER attacks contact	49°56.0000'N	000°53.0000'W
Attack	28/06/1944	A/C A/304 - large oil patch appeared	50°00.0000'N	002°50.0000'W
Attack	28/06/1944	A/C M/103	49°13.0000'N	005°12.0000'W
Sunk (U672)	28/06/1944	BICKERTON sunk U672??? 0425/25th posn more likely than 2.30 in assessment???) check	50°00.0000'N	003°00.0000'W
Attack	28/08/1944	CAPE BRETON attacked 2 contacts..	49°43.0000'N	000°32.0000'W
Attack	29/12/1944	HOTHAM attack	50°11.0000'N	000°47.8000'W
Attack	29/03/1945	RIBBLE attacks contact..	50°25.0000'N	002°40.0000'W
Attack	29/03/1945	HMCS TEME attacked u-boat...	50°08.0000'N	005°50.0000'W
Attack n/s	29/06/1944	Counterattack after PORT COLBORNE attack. massive explosion brought remains to the surface which established the wreck was HMS BLACKWOOD sunk on 15/6/44	50°13.3000'N	002°12.0000'W
Attack	29/06/1944	A/C of 848 sq	50°00.0000'N	001°27.0000'W
Attack	29/06/1944	Avenger - air bubbles etc seen	50°00.0000'N	001°27.0000'W
Attack n/s	29/07/1944	attack by HIND brought USA stuff to surface - thought sunk LST Adm diary (000 w may be mistake)	49°28.3600'N	000°57.4200'W
Attack?	29/07/1944	ORBIRI fixed by QH..says contact - doesn't state if attacked Adm diary	50°26.3600'N	001°00.3600'W
Attack	29/08/1944	DAHLIA attacked contact..	50°03.0000'N	004°49.0000'W
Attack	03/11/1944	BRISSENDEN attacked stationary target	49°52.0000'N	005°05.0000'W
Attack	03/11/1944	A/C F/110 attacked poss. U-boat	50°13.0000'N	002°19.0000'W
Attack	03/11/1944	USS MALOY attacked U-boat	50°10.0000'N	002°11.0000'W
Attack	03/12/1944	FS L'AVENTURE attacks contact - prob non-sub	50°07.0000'N	001°54.0000'W
Attack	03/02/1945	LAUNCESTON CASTLE attacked contact..	50°21.0000'N	002°57.0000'W
Attack	03/03/1945	CELANDINE attacks contact	50°33.0000'N	005°22.0000'W
Attack	30/12/1944	MTB760 attacking good contact..	50°32.2000'N	002°32.0400'W
Attack	30/12/1944	MTB 733 attack	50°32.5930'N	002°33.4143'W
Attack	30/12/1944	MTB 760 attack	50°35.3000'N	002°33.1000'W
Attack	30/12/1944	MTB760 attack	50°32.2000'N	002°32.4000'W
Attack	30/12/1944	A/C L/407 attacked U-boat	50°05.0000'N	002°30.0000'W
Attack	30/12/1944	HOTHAM and HELMSDALE attacked contact.	50°11.0000'N	000°48.0000'W
Attack	30/12/1944	MTB 733 attack	50°22.0000'N	002°27.0000'W
Attack	30/12/1944	SKOMER attacked contact	49°25.0000'N	003°27.0000'W
underwater explosion	30/03/1945	ROWAN reports explosion	49°56.0000'N	005°33.0000'W
Attack	30/03/1945	DUCKWORTH attacked contact	49°58.0000'N	005°25.0000'W

Attack	30/03/1945	SUSSEX VALE attacked contact..	50°25.0000'N	002°40.0000'W
Sunk	30/06/1944	DUCKWORTH sunk U-boat. Packet of Rutt" made in Berlin picked up. Posn fixed by QH."	49°36.0000'N	003°39.0000'W
Attack	30/06/1944	A/C L/224	49°37.0000'N	003°41.0000'W
Attack n/s	30/07/1944	CAMPBELL - wreck broad arrow marked life raft 1943 recovered Adm diary	49°45.3600'N	000°28.0000'W
Attack	30/08/1944	FORRESTER VERSATILE & ROWLEY attacked contact	50°04.0000'N	001°33.0000'W
Attack	31/01/1945	VIMY - considered non sub	49°49.6719'N	005°47.8627'W
Attack	31/01/1945	MTB F66 non sub contact attacked..	50°35.5000'N	002°14.0000'W
Attack	31/01/1945	FS RENONCULE attacked contact..	50°04.0000'N	004°48.0000'W
Attack	31/12/1944	MTB 733 attack	50°32.0000'N	002°34.0000'W
Attack	31/12/1944	MTB 760 attack	50°32.0000'N	002°32.0000'W
Attack	31/12/1944	MELBREAK attacked u-boat..	50°27.0000'N	002°24.0000'W
Attack	31/07/1944	A/C E/179 attacked periscope...	50°04.0000'N	002°51.0000'W
Attack	31/07/1944	CAMPBELL attacked contact..	49°46.0000'N	000°28.0000'W
Attack	31/07/1944	EG6 attacked contact..	50°29.0000'N	000°34.0000'W
Attack	04/11/1944	USS MALOY determined attack..	50°11.4500'N	002°14.3000'W
Attack	04/11/1944		50°11.0000'N	001°43.0000'W
Attack	04/03/1945	MTB 747 attacks contact.	50°29.0000'N	003°01.0000'W
Attack	04/04/1945	GARLIES - thought wreck	50°28.0000'N	002°36.0000'W
Attack	04/07/1944	ONSLAUGHT attacked poss. periscope	50°11.0000'N	000°17.0000'W
Oil/contact?	04/07/1944	A/C X/105 submerged contact in oil... how? sonobuoy? seems odd.. check!	49°32.0000'N	000°17.0000'W
Attack	04/08/1944	BELLONA attacked smoke cloud from poss. snort	49°25.0000'N	006°30.0000'W
Attack	04/09/1944	GENTIAN	50°30.0000'N	000°18.0000'E
Sunk	05/07/1944	U390 TAVY & WANDERER U390 Adm diary	49°49.7514'N	000°56.4423'W
Attack	05/07/1944	WENSLEYDALE - diving suits and wood picked up.. U?? Adm Diary	50°14.3719'N	000°18.5006'W
Attack	05/07/1944	A/C X/105	49°32.0000'N	003°37.0000'W
Attack	05/07/1944	A/C M/848	50°10.0000'N	001°12.0000'W
Sunk	05/08/1944	U671 sunk by STAYNER & WENSLEYDALE adm diary	50°25.1150'N	000°17.6889'E
Attack	05/08/1944	STAYNER attacked U-boat....	50°25.0000'N	000°11.0000'E
Attack	05/08/1944	A/C attacked conning tower..	50°02.0000'N	003°02.0000'W
Attack	05/08/1944	A/C O/172 attacked U-boat on surface..	49°57.0000'N	004°13.0000'W
Attack	05/09/1944	EG9	50°27.0000'N	005°05.4300'W
Attack	05/09/1944		50°45.0000'N	006°02.0000'W
Attack	06/11/1944	USS MALOM 5 pattern - non-sub	49°58.4800'N	002°18.4200'W
Attack	06/02/1945	EG14 attacked contact	50°31.6370'N	001°31.1609'W
Attack	06/02/1945	EG14 attack contact..	50°31.2783'N	001°30.0358'W
Attack	06/03/1945	JONQUIERE attacks contact	50°31.0000'N	005°31.0000'W
Attack	06/03/1945	RENONCULE attacks contact	50°44.1864'N	004°58.9076'W
Attack	06/03/1945	LOCH RUTHVEN attacks contact..	50°25.5000'N	002°25.0000'W
Attack	06/03/1945	DORNOCH attacks contact..	50°30.0000'N	005°26.0000'W
Attack	06/03/1945	LAUBAN attack produces life raft	49°45.7268'N	005°48.7065'W

		container..		
Sunk	06/04/1945	U1195...WATCHMAN	50°33.1904'N	000°56.0027'W
Sunk	06/07/1944	STATICE & KOOTENAY Adm Diary	50°34.2057'N	000°33.3460'E
Attack	06/07/1944	HM Ships	49°52.0000'N	000°57.0000'W
Attack	06/07/1944	HM Ship	50°28.0000'N	000°05.0000'W
Attack	06/07/1944	HM Ship	50°30.0000'N	000°25.0000'W
Attack	06/07/1944	HM Ship	50°20.0000'N	000°17.0000'W
Attack	06/07/1944	A/C E/504	49°41.0000'N	005°45.0000'W
Attack	07/02/1945	EG14 attacked contact	50°32.0000'N	001°33.0000'W
Underwater explosion	07/02/1945	MILLTOWN heard u/w explosion	50°30.0000'N	002°05.0000'W
Attack	07/03/1945	BULLDOG attacks contact..	50°00.2060'N	005°51.8942'W
Attack	07/03/1945	DORNOCH & JONQUIERE attack contacts	50°30.0000'N	005°26.0000'W
Attack	07/03/1945	A/C F/810 attacked swirl	50°16.0000'N	001°52.0000'W
Attack	07/07/1944	OTTOWA KOOTENAY & STATICE	50°34.0000'N	000°09.0000'W
Attack	07/07/1944	A/C N/502	49°16.0000'N	005°26.0000'W
Attack	07/08/1944	HM Ship attacked stationary contact..	50°00.0000'N	000°20.0000'W
Attack	07/08/1944	HM Ship attacked firm contact	50°00.0000'N	000°29.0000'W
Attack	08/11/1944	SPRAGGE attacked stationary contact..	50°29.0000'N	000°18.0000'E
Attack	08/12/1944	SPRAGGE attacks bottom contact - posn by QH	50°07.0000'N	001°38.5000'W
Attack	08/12/1944	HARGOOD attacked contact.. may be non sub	50°04.0000'N	000°49.0000'W
Attack	08/02/1945	PORT ARTHUR attacked contact..	50°22.0000'N	002°05.0000'W
Attack	08/02/1945	LOCH FADA attacked contact..	50°14.0000'N	003°03.0000'W
Attack	08/03/1945	A/C Q/107 attacked contact	50°03.0000'N	006°04.0000'W
Attack	08/03/1945	BULLDOG attacked possible U-boat..	50°00.0000'N	005°56.0000'W
Attack	08/03/1945	A/C Q/810 attacked probable periscope..	50°12.0000'N	002°06.0000'W
Attack	08/04/1945	LUNDY attacked stationary contact..	50°13.0000'N	004°47.0000'W
Attack	08/04/1945	SHIPPIGAN attacked doubtful contact..	50°04.0000'N	004°06.0000'W
Attack	08/07/1944	A/C B/206	49°11.0000'N	003°46.0000'W
Attack	08/08/1944	Attacked snorkel - accuracy doubted EG1 Adm diary	49°38.0000'N	004°08.0000'W
Attack	08/08/1944	HM Ship attacked contact..	49°52.0000'N	000°56.0000'W
Attack	09/02/1944	EG38 attacked contact..	50°34.0000'N	001°31.0000'W
Attack	09/03/1945	A/C A/810 attacked wake and smoke	50°22.0000'N	002°10.0000'W
Attack	09/03/1945	DAHLIA attacked contact..	51°06.0000'N	004°34.0000'W
unexplained explosion	09/04/1945	BERRY heard explosion	50°37.0000'N	005°09.0000'W
Attack	09/04/1945	SUSSEX VALE attacked contact	50°22.0000'N	002°39.0000'W
Attack	09/07/1944	WHIMBREL - thought wreck Adm diary	49°51.0000'N	000°46.3000'W
Attack a/c	09/08/1944	A/c using sonobuoys and Proctor" (fido?) - no evidence of hit Adm diary	49°03.0000'N	004°57.0000'W
Attack	09/08/1944	WENSLEYDALE - inconclusive attack Adm diary	49°41.7155'N	000°25.2509'W
Attack	09/08/1944	A/C P/110 attacked poss. periscope	49°39.0000'N	004°09.0000'W

Attack	09/08/1944	WENSLEYDALE attacked bottomed contact..	50°28.0000'N	001°19.0000'W
Attack	09/08/1944	A/C P/110 attacked submerged contact..	49°35.0000'N	004°08.0000'W
Attack	09/08/1944	A/C L/110 attacked submerged contact..	40°53.0000'N	003°42.0000'W
Attack	27/07/1944	RIMOUSKI AT the D1A buoy Adm diary (26th) and AUD incidents	50°45.0117'N	000°35.7457'E
Attack U741	14/08/1944	Orchis attack posn by buoy ref AUD and Adm (15th) diary	50°02.3777'N	000°34.9347'W
Attack	03/08/1944	WALPOLE CURZON VERVAIN Ca after OCEAN VGOUR torpedoed..Adm diary	50°06.7506'N	000°35.6014'W
Attack	14/07/1944	CAMPBELL.. AUD and adm (13th) diary	50°03.5995'N	000°41.6270'W
Attack	20/08/1944	ROWLEY Adm diary and AUD (19th) Incidents	50°07.9541'N	000°40.1911'W
Attack	25/07/1944	RECRUIT & WENSLEYDALE Adm diary	50°05.5797'N	000°43.4988'W
Attack	20/08/1944	PRIMROSE Adm diary	50°05.8931'N	000°37.1911'W
Attack	25/11/1944	ESCARMOUCHE adm diary	49°58.5603'N	000°30.7552'W
Attack	13/12/1944	ESCARMOUCHE adm diary	50°06.1373'N	001°12.7607'W
Attack	23/12/1944	GENTIAN adm diary	49°43.7985'N	001°42.8954'W
Attack	31/12/1944	TONKINOIS adm diary	50°27.6433'N	001°20.2128'W
Attack	02/01/1945	FIARAY adm diary	49°40.7292'N	000°27.0691'W
Attack	11/03/1945	EG10 adm diary	50°39.6205'N	000°03.7809'W
underwater explosions	15/03/1945	underwater explosion adm diary	50°26.4692'N	000°36.8834'W
Attack	03/09/1944	GENTIAN 170 deg 500yards j2 buoy	50°28.5873'N	000°16.3763'E

Table 2.13. ASW Incidents recorded in the Admiralty Daily Diary in the Study Area during the Inshore Campaign 1944-45 (Innes McCartney)



## Appendix 2.7 The Circumstances of U-Boat Losses as Known in 1946 and 2012

1946 Name	U-boat revealed itself by attacking?	2012 Wreck Name	U-boat revealed itself by attacking?
U12	N/A	U12	N/A
U40	N/A	U40	N/A
U16	N/A	U16	N/A
U767	No	U767	No
U441	No	U971	No
U971	No	U269	No
U269	No	U1191	No
U1191	No	(U441)	No
U988	No	(U988)	No
U390	Yes	U390	Yes
U678	Yes	U678	Yes
U672	No	U672	No
U212	No	U212	No
U214	No	U214	No
U671	No	U671	No
U741	Yes	U741	Yes
U413	No	U413	No
U247	No	(U984)	Unknown
U1209	N/A	U247	No
U772	No	U1209	N/A
U1199	Yes	(U772)	No
U480	Yes	(U322)	Yes
U927	No	(U400)	N/A
U1018	Yes	U1199	Yes
U327	No	(U650)	Unknown
U275	N/A	(U1208)	Yes
U683	No	U480	N/A
U399	Yes	U1018	Yes
U246	Yes	(U683)	N/A
U1195	Yes	U275	N/A
U1063	No	U399	Yes
		(U1021)	N/A
		U1195	Yes
		U1063	No
		(U325)	N/A
		(U1279)	No

Table 2.15. The circumstances of U-boat losses as known in 1946 and 2012 (Innes McCartney).

## Appendix 2.8 The Means of Detection and Destruction of U-Boat Losses as Known in 1946 and 2012

1946 Name	Killing weapon	How detected	2012 Wreck Name	Killing weapon	How detected
<b>U12</b>	Mine	N/A	<b>U12</b>	Mine	N/A
<b>U40</b>	Mine	N/A	<b>U40</b>	Mine	N/A
<b>U16</b>	Mine	N/A	<b>U16</b>	Mine	N/A
<b>U767</b>	HH	Asdic	<b>U767</b>	HH	Asdic
<b>U441</b>	Air	Air	<b>U971</b>	D/C	Air/Asdic
<b>U971</b>	D/C	Air/Asdic	<b>U269</b>	D/C	Radar/Asdic
<b>U269</b>	D/C	Radar/Asdic	<b>U1191</b>	HH	Air/Asdic
<b>U1191</b>	HH	Air/Asdic	<b>(U441)</b>	Air & Sea	Air/Asdic
<b>U988</b>	Air & Sea	Air/Asdic	<b>(U988)</b>	D/C	Asdic
<b>U390</b>	HH	Asdic	<b>U390</b>	HH	Asdic
<b>U678</b>	HH	Asdic	<b>U678</b>	HH	Asdic
<b>U672</b>	HH	Asdic	<b>U672</b>	HH	Asdic
<b>U212</b>	D/C	Radar/Asdic	<b>U212</b>	D/C	Radar/Asdic
<b>U214</b>	D/C	Asdic	<b>U214</b>	D/C	Asdic
<b>U671</b>	HH	Asdic	<b>U671</b>	HH	Asdic
<b>U741</b>	D/C	Asdic	<b>U741</b>	D/C	Asdic
<b>U413</b>	HH	Asdic	<b>U413</b>	HH	Asdic
<b>U247</b>	HH or D/C	Asdic	<b>(U984)</b>	Unknown	Unknown
<b>U1209</b>	N/A	N/A	<b>U247</b>	HH or D/C	Asdic
<b>U772</b>	Air	Air	<b>U1209</b>	N/A	N/A
<b>U1199</b>	HH	Asdic	<b>(U772)</b>	D/C	Asdic
<b>U480</b>	D/C	Asdic	<b>(U322)</b>	D/C	Asdic
<b>U927</b>	Air	Air	<b>(U400)</b>	Mine	N/A
<b>U1018</b>	Squid	Asdic	<b>U1199</b>	HH	Asdic
<b>U327</b>	HH or D/C	Air/Asdic	<b>(U650)</b>	Unknown	Unknown
<b>U275</b>	Mine	N/A	<b>(U1208)</b>	D/C	Asdic
<b>U683</b>	D/C or Squid	Asdic	<b>U480</b>	Mine	N/A
<b>U399</b>	HH	Asdic	<b>U1018</b>	Squid	Asdic
<b>U246</b>	HH	Asdic	<b>(U683)</b>	Mine	N/A
<b>U1195</b>	HH	Asdic	<b>U275</b>	Mine	N/A
<b>U1063</b>	Squid	Radar/Asdic	<b>U399</b>	HH	Asdic
			<b>(U1021)</b>	Mine	N/A
			<b>U1195</b>	HH	Asdic
			<b>U1063</b>	Squid	Radar/Asdic
			<b>(U325)</b>	Mine	N/A
			<b>(U1279)</b>	HH or D/C	Air/Asdic

Table 2.16. The means of detection and destruction of U-boat losses as known in 1946 and 2012 (Innes McCartney).

## Glossary

AHB	Air Historical Branch of the Royal Air Force.
Alberich	An anechoic rubber-based coating bonded to the hulls of very few late WW2 U-boats as a defence against sonar. Considered to have been highly effective.
ASD	Antisubmarine Division of the Naval Staff as constituted in 1917 as a replacement for the Submarine Committee.
ASW	Antisubmarine Warfare
AUD	Anti-U-Boat Division of the Admiralty
BdU	<i>Befehlshaber der U-Boote</i> , U-boat command headquarters
Bigram Code	The Tracking room denoted a two-letter code to each U-boat at sea. This bigram is found in all original OIC transmissions. For instance <i>U480</i> is referred to as “RJ”.
Circular Dipole	The receiver aerial for the varying types of radar warning equipment fitted to late WW2 U-boats.
Cmdr.	Commander.
DF	Direction Finding of radio transmissions made by U-boats. Used both as a noun and a verb.
GHG Balcony	A dome array fitted underneath the bow of a late WW2 U-boat which contained active and passive sonar equipment.
“H” Series	Ultra Secret Special Intelligence briefings regularly (sometimes many in a day) circulated among highest ranking Special Intelligence-cleared Commanders in Chief of Allied Operational Commands and Directorates. It is not U-boat specific and gives a much broader context the war at sea.
Hedgehog	A forward-throwing multi-spigot ASW mortar which dropped projectiles in a pattern ahead of the launching ship.

HF/DF	High Frequency Direction Finding of radio transmissions made by U-boats. Used both as a noun and a verb.
KTB	Kriegstagebuch, Log book or diary
Lieut. Cmdr.	Lieutenant Commander.
Olzs.	Oberleutnant zur See. German Navy Lieutenant (junior grade)
OIC	Operational Intelligence Centre. The Admiralty department in London which collated and interpreted all forms of intelligence and distributed its findings to operational centres and directorates.
NA	UK National Archives (when used in citations).
NARA	The National Archives and Records Administration of the United States of America (when used in citations).
NHB	Naval Historical Branch of the Royal Navy
NID	Naval Intelligence Division of the Naval Staff
QH	Sometimes referred to by its RAF name, “Gee” was navigational equipment fitted to Escort ships based on the American Loran system. It became active the sample area on D-Day.
Snorkel	<i>Schnorchel</i> in German. A system fitted to late WW2 U-boats which allowed the engines to be run while the submarine was submerged, allowing for recharging and ventilation without surfacing.
Special Intelligence	The term used by the OIC to define any material decrypted by Bletchley Park and its contemporaries in Canada and the U.S.; all of which was Ultra Secret. This has led to the name “Ultra” being erroneously used.
The Spout	The shipping lane between Portsmouth and Normandy/Cherbourg which became operational during the D-Day period until the end of WW2.
Tracking Room	The U-boat Tracking Room at the OIC which plotted the known or anticipated locations of all U-boats at sea. The room was commanded by Captain Rodger Winn RNVR.

THSA	The Technical History Section of the Admiralty
U-Boat Situation	This was a weekly report on U-boat dispositions, activities and losses distributed by the OIC to the highest ranking officials and officers engaged in ASW during WW2.
“ULTRA”	See “Special Intelligence”.
WW1	World War One
WW2	World War Two