

SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>TORBAY</u> 18th April, 1943	<u>Near Miss</u> <u>Bombs</u>	2 months	<p>TORBAY, while at Algiers, was subjected to some near miss bombs during an enemy air raid. The plating and framing of the amidship length of the starboard main ballast tanks was indented for about 4 ft. above and below the fendering longitudinal to a maximum of about 8 inches.</p> <p>The H.P. air line developed leaks.</p> <p>Damage occurred to the main battery through cracked cells and electrical defects developed in some equipment.</p> <p><u>Fighting Efficiency</u> - Impaired.</p>
<u>P. 615</u> 18th April, 1943	Probably <u>Torpedo</u>	Sunk	<p>P. 615 was sunk by a U-boat off W. Africa.</p> <p>No further details available.</p>
<u>SPLENDID</u> 21st April, 1943	<u>Depth</u> <u>Charges</u> and Gunfire from destroyer	Sunk	<p>SPLENDID was about to attack a German destroyer off Capri when she was counter attacked and severely depth charged by the enemy vessel.</p> <p>Three attacks were made the last of which parted the clips on the after D.S.E.A. hatch and jammed the after hydroplanes to 15 degrees dive.</p> <p>The submarine dived to 320 ft., a lot of water entered, and the port motor failed.</p> <p>All tanks were blown and SPLENDID surfaced, to be engaged by gunfire. An attempt was made to release the drop keel but it was not possible to do so.</p> <p>SPLENDID finally sank in very deep water.</p>
<u>SAHIB</u> 24th April, 1943	Thirty <u>Depth</u> <u>Charges</u> approx.	Scuttled	<p>SAHIB, while operating north of Cape Milazzo, was attacked by surface craft and heavily depth charged.</p> <p>The compressor outlet valve (behind the starter on the port side of the after end) was blown clean off the ships side leaving a hole about 1½" in diameter. This serious leak could not be plugged owing to its position. 'A' relief valve lifted, 'Q' outboard vent opened and the main line flood in the magazine space opened. These incidents however were quickly dealt with.</p> <p>All main and emergency lighting in the fore end was broken and the depth gauges in the ship gave widely different readings.</p> <p>The main batteries and motors were undamaged and the H.P. air line intact.</p> <p>SAHIB surfaced and was afterwards scuttled.</p>



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<u>SICKLE</u> 15th May, 1943	<u>Eight Depth Charges</u>	Nil	<p>SICKLE, after attacking an enemy convoy, was depth charged by an enemy trawler while at 100 ft. depth. Structural damage was slight. Practically all zinc protectors on the after part of the submarine were blown off. The compensating water relief valves to external oil fuel tanks lifted admitting a considerable amount of water to the engine room bilges. The tankside compensating valves had apparently partially opened. Several gauges were damaged. The 3 inch ready use locker was forced open. Minor electrical damage occurred.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>SAFARI</u> 7th June, 1943	<u>Depth Charges</u>	Nil	<p>SAFARI, on completion of an attack against an enemy convoy, was depth charged by the escort. During the enemy attack the submarine sank slowly from 200 ft. to 440 ft. Only minor internal damage was caused.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>TACTICIAN</u> 12th June, 1943	<u>Seventeen Depth Charges</u>	Nil	<p>TACTICIAN, during an attack on an enemy convoy, was at 50 ft. depth when she was depth charged by the convoy escort. No damage occurred beyond a few small instrument lights extinguished and the starboard bow light cracked.</p>
<u>UNSHAKEN</u> 22nd June, 1943	<u>Depth Charges</u>	Nil	<p>UNSHAKEN, after an attack on an enemy convoy, was depth charged by the escort. Superficial damage was done to the bridge.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>UNISON</u> 4th Aug., 1943	<u>Shell</u>	Nil	<p>UNISON was shelled by an enemy merchant vessel. Only slight damage occurred.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>



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<u>SARACEN</u> 7th Aug., 1943	Twenty-seven <u>Depth</u> <u>Charges</u>	Nil	<p>SARACEN, while operating in the Mediterranean, was depth charged by an enemy destroyer. The main explosion seemed to be close above the starboard side when the submarine was passing 300 ft.</p> <p>No serious structural damage occurred. The conning tower clips loosened and the forward D.S.E.A. hatch clips were strained.</p> <p>Heavy air leaks occurred through some of the connections on the H.P. air group bottles. Many main line valves and 'Q' outboard vent were sprung off their seatings and, the latter, allowed 500 gallons of water to enter 'Q' tank. Many gauges, the periscopes, log and other fittings were damaged.</p> <p>The main batteries were undamaged, but many minor defects occurred in other electrical equipment through shock.</p> <p>The hydrophones were damaged and the asdic set temporarily out of action.</p> <p><u>Fighting Efficiency</u> - Impaired.</p> <p>Defects were remedied sufficiently by the ship's staff and on the following day SARACEN carried out a successful torpedo attack.</p>
<u>PARTHIAN</u> 21st July, 1943 -11th Aug., 1943	Possibly <u>Mine</u>	Sunk	<p>PARTHIAN was lost, possibly through mining, whilst operating in the South Adriatic. No further details are available.</p>
<u>SARACEN</u> 18th Aug., 1943	<u>Depth</u> <u>Charges</u>	Sunk	<p>SARACEN was depth charged and sunk by surface craft whilst operating off Bastia, Corsica. No further details are available.</p>
<u>TAURUS</u> August, 1943	<u>Collision</u> with enemy	Nil	<p>TAURUS was attacking an enemy vessel when she found that the target was closer than had been thought. Immediately the submarine started to go deep, but when at 33 ft. a mild bump was felt.</p> <p>It was found that both periscopes were badly damaged and the standards had parted at the joint, all the studs being fractured on the starboard side. Both standards were repairable.</p> <p><u>Fighting Efficiency</u> - Impaired.</p>
<u>USURPER</u> 24th Sept., 1943 -12th Oct., 1943	Probably <u>Mine</u>	Sunk	<p>USURPER was lost, probably mined, whilst operating in the Gulf of Genoa. No further details are available.</p>



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<u>UNRIVALLED</u> 12th Oct., 1943	<u>Depth Charges</u>	Nil	UNRIVALLED, when subjected to a depth charge attack, during a patrol, suffered only minor damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>TORBAY</u> 16th Oct., 1943	<u>Depth Charges</u>	Nil	TORBAY was subjected to a depth charge attack by enemy surface forces. Both internal engine exhaust pipes were fractured.  <u>Fighting Efficiency</u> - Not impaired.
<u>TROOPER</u> 17th Oct., 1943	Probably <u>Mine</u>	Sunk	TROOPER was lost while on patrol, probably from a mine. Her patrol area at the time was west of the Dodecanese and east of Leros.
<u>UNSPARING</u> 31st Oct., 1943	<u>Direct Hit Shell</u>	Nil	UNSPARING, during an engagement with enemy forces, sustained minor damage from gunfire. The shell blew a hole about a foot square in the bridge casing just abaft the conning tower. Both main and emergency aerial leads were severed close to the bridge deck. Slight splinter damage occurred.  <u>Fighting Efficiency</u> - Not impaired.
<u>TAURUS</u> 14th Nov., 1943	Six <u>Depth Charges</u>	Nil	TAURUS, while on patrol off the coast of Siam, was attacked with depth charges, by an enemy surface craft. All the charges were very close. Telemotor pressure failed, putting the hydroplanes, steering gear and periscopes out of action. All depth gauges were affected.  <u>Fighting Efficiency</u> - Temporarily impaired.
<u>UNSEEN</u> 16th Nov., 1943	<u>Depth Charges</u>	Nil	UNSEEN sustained slight damage as a result of an enemy depth charge attack.  <u>Fighting Efficiency</u> - Not impaired.
<u>SIMOON</u> 19th Nov., 1943	Not known	Sunk	SIMOON was lost whilst operating in the Dardanelles Approaches. There is no evidence as to the actual cause of the loss.



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<u>TORBAY</u> 27th Nov., 1943	<u>Depth</u> <u>Charges</u>	Nil	TORBAY when depth charged by enemy surface forces, sustained only slight damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>SATYR</u> 19th Dec., 1943	<u>Seven Depth</u> <u>Charges</u> <u>Cannon and</u> <u>Machine gun</u>	1 month	SATYR, after attacking a convoy, was subjected to a depth charge attack by the enemy escort vessels. Previous to the depth charging SATYR was admitting water through the drain pipe from the hand emergency cock to the stern tube. This leak proved serious when the submarine bottomed at 362 ft. with a bow up angle. It was imperative to come up to a safer depth to reduce the leak, but on rising, trimming difficulties arose, and the submarine broke surface. SATYR was then attacked by an enemy aircraft with cannon and machine gun, and hits were heard outside before the ship dived again. From the above attacks superficial damage occurred. 'Z' auxiliary tank was leaking due to sprung rivets, leaky kingston or rudder gland.  <u>Fighting Efficiency</u> - Impaired. Due to the condition of the submarine it was decided to abandon the patrol.
<u>UNRULY</u> 7th Jan., 1944	<u>Depth</u> <u>Charges</u>	Nil	UNRULY, during an enemy depth charge attack sustained only minor damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>TAURUS</u> 7th Feb., 1944	<u>Bomb</u>	Nil	TAURUS was attacked by enemy aircraft, but suffered only minor damage from the bombing.  <u>Fighting Efficiency</u> - Not impaired.
<u>SIBYL</u> 8th Feb., 1944	<u>Shell and</u> <u>Depth</u> <u>Charges</u>	Nil	SIBYL, during a patrol, sustained minor damage from shell and depth charge. Several electrical instruments and some depth gauges were damaged. The log would not operate correctly.  <u>Fighting Efficiency</u> - Not impaired.



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<u>STUBBORN</u> 13th Feb., 1944 D.N.C.N6/BR326	Fifty two <u>Depth</u> <u>Charges</u>	8 $\frac{1}{4}$ months including refit	<p>STUBBORN, while patrolling in the Kya area, was heavily depth charged after attacking an enemy convoy. The depth charging lasted for approx. 3 hours and during this period the submarine surfaced twice for reasons unknown, being sighted by the enemy on the second occasion. Finally she bottomed very hard in a depth of 550 to 600 ft. The after planes were jammed at hard-a-dive and the starboard propeller seized temporarily. 'Q' tank was flooded through an outboard vent. Various lights and fuzes were broken.</p> <p><u>Fighting Efficiency</u> - Impaired. It was found later that the tail fin complete with hydroplanes and rudder were missing.</p>
<u>UNSPARING</u> 19th Feb., 1944	Six <u>Depth</u> <u>Charges</u>	Uncertain	<p>UNSPARING was subjected to an accurate depth charge attack by enemy surface vessels. The charges exploded quite close to the port and starboard sides. Minor distortion of hull plating and a frame occurred. 'Q' outboard vent sprung open and 'Q' tank flooded. The vessel went down to 325 ft. before being held. Minor damage occurred to pipes and electrical circuits and the periscope lenses were covered with dirt and dust internally. Both ready use lockers for the gun were flooded. An abnormal amount of the cork lining inside the hull was shaken down by the shock of the explosions.</p> <p><u>Fighting Efficiency</u> - Slightly impaired.</p>
<u>TALLY HO</u> 24th Feb., 1944	Rammed by Japanese torpedo boat	2 months	<p>TALLY HO, while operating near the Sembilan islands, was rammed by a Japanese warship which ripped open the port main ballast tanks with her propellers. TALLY HO took up an immediate heavy list to port, but was able to dive to 120 ft. without much trouble. On surfacing later the list was reduced to 12° to port by suitable trimming and the ship returned to base at 10 knots.</p> <p><u>Fighting Efficiency</u> - Seriously impaired.</p>
<u>VENTURER</u> 6th March, 1944	<u>Depth</u> <u>Charges</u>	Nil	<p>VENTURER sustained minor damage when subjected to an enemy depth charge attack.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>



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<u>ULTOR</u> 11th March, 1944	<u>Fourteen Depth Charges</u>	Nil	ULTOR was depth charged by two enemy surface craft. Numerous small leaks occurred in the submarine, but none were of a serious nature.  <u>Fighting Efficiency</u> - Not impaired.
<u>UNSWERVING</u> 20th March, 1944	<u>Depth Charges</u>	1 month	UNSWERVING sustained minor damage when subjected to an enemy depth charge attack.  <u>Fighting Efficiency</u> - Impaired.
<u>STONEHENGE</u> 22nd March, 1944	Not known	Sunk	STONEHENGE, while operating off the Nicobar Islands, was sunk. The cause of sinking is unknown. No further details are available.
<u>SYRTIS</u> 28th March, 1944	<u>Mine</u>	Sunk	SYRTIS, while operating off Bodo, Norway, was sunk, almost certainly by a mine. The Germans claimed to have sunk a submarine in the area by gunfire from a shore battery. No further details are available.
<u>TAKU</u> 13th April, 1944	<u>Mine</u> in about 700 ft. of water	2½ months	TAKU was proceeding at 230 ft. on patrol, in the North Sea near the entrance to the Skagerrak, when a very large explosion occurred overhead. It was estimated that the centre of the shock was about half way between the conning tower and the bows, but the distance from the hull was not estimated. The fore end of the vessel whipped violently and some of the light partition bulkheads were buckled. Leaks occurred in the portable plate in the motor room and in the gun tower horizontal joint, the gun tower being flooded. There was no serious damage to main or auxiliary machinery, and only minor defects in electrical equipment. The 4 inch gun required a thorough examination before being considered safe to fire. Torpedo armament was fit for use.  <u>Fighting Efficiency</u> - Impaired.
<u>TACTICIAN</u> 19th April, 1944	<u>Shells</u>	Nil	TACTICIAN, while rescuing the pilot of an American aircraft which had crashed in the sea off Sabang, was shelled by Japanese shore batteries. Splinters from a near miss hit the bridge and caused only superficial damage.  <u>Fighting Efficiency</u> - Not impaired.



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<u>UNTIRING</u> 27th April, 1944	<u>Depth Charges</u>	Nil	UNTIRING received minor damage during a depth charge attack.  <u>Fighting Efficiency</u> - Not impaired.
<u>SPORTSMAN</u> 6th May, 1944	Eight <u>Depth Charges</u>	Nil	SPORTSMAN sustained only minor damage when she was subjected to a depth charge attack, while at 160 ft. depth. Aft, the circulating water supply and discharge valves of the starboard compressor were blown open and the relief lifted.  <u>Fighting Efficiency</u> - Not impaired.
<u>ULTIMATUM</u> 10th May, 1944	<u>Depth Charges</u>	Nil	ULTIMATUM sustained only minor damage when subjected to a depth charge attack.  <u>Fighting Efficiency</u> - Not impaired.
<u>TEMPLAR</u> 26th May, 1944	<u>Depth Charges</u>	Nil	TEMPLAR, while patrolling in the Malacca Straits, attacked an enemy convoy and was then subjected to a depth charge attack by the escort. Some leaks were started and minor electrical defects occurred but no serious damage was done.  <u>Fighting Efficiency</u> - Not impaired.
<u>VOX</u> 1st June, 1944	<u>Depth Charges</u>	Nil	VOX sustained only minor damage when depth charged by enemy surface craft.  <u>Fighting Efficiency</u> - Not impaired.
<u>SICKLE</u> 18th June, 1944	Probably <u>Mine</u>	Sunk	SICKLE was lost while operating in the Aegean, probably through mining. No further information is available.
<u>SEA ROVER</u> 20th June, 1944	<u>Depth Charges</u>	Nil	SEA ROVER was only slightly damaged by a depth charge attack from enemy surface forces. Several water leaks developed, especially in the headspace drain to stern tube but they were quickly dealt with. Numerous air leaks occurred.  <u>Fighting Efficiency</u> - Not impaired.



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<u>TRUCULENT</u> 26th June, 1944	<u>Depth Charges</u>	Nil	TRUCULENT sustained minor damage in a depth charge attack. <u>Fighting Efficiency</u> - Not impaired.
<u>SPITEFUL</u> 30th June, 1944	One <u>Bomb</u>	Nil	SPITEFUL, during an enemy air attack, sustained only minor damage from a bomb. <u>Fighting Efficiency</u> - Not impaired.
<u>VOX</u> 10th July, 1944	<u>Depth Charges</u>	Nil	VOX sustained slight damage in an enemy depth charge attack. <u>Fighting Efficiency</u> - Not impaired.
<u>SIRDAR</u> 16th July, 1944	<u>Machine gun</u>	Nil	SIRDAR, when subjected to a machine gun attack, sustained only superficial damage. <u>Fighting Efficiency</u> - Not impaired.
<u>TELEMACHUS</u> 19th July, 1944	<u>Depth Charges</u>	Nil	TELEMACHUS sustained slight damage during an enemy depth charge attack. <u>Fighting Efficiency</u> - Not impaired.
<u>STORM</u> 23rd July, 1944	<u>Depth Charges</u>	Nil	STORM sustained slight damage when subjected to an enemy depth charge attack. <u>Fighting Efficiency</u> - Not impaired.
<u>UPSTART</u> 26th July, 1944	<u>Depth Charges</u>	Nil	UPSTART was only slightly damaged after a depth charge attack from enemy surface forces. <u>Fighting Efficiency</u> - Not impaired.
<u>SATYR</u> 20th Aug., 1944	<u>Depth Charges</u>	Nil	SATYR was subjected to an enemy depth charge attack but sustained only slight damage. <u>Fighting Efficiency</u> - Not impaired.



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<u>TANTALUS</u> 29th Aug., 1944	One <u>Near</u> <u>Miss Bomb</u>	Nil	TANTALUS, when in the Malacca Straits, was attacked by an enemy aircraft. She dived immediately and was at 70 ft. when the bomb fell. Some very minor damage was sustained and the explosion smashed the navigation lights.  <u>Fighting Efficiency</u> - Not impaired.
<u>TANTALUS</u> 1st Sept., 1944	Nine <u>Depth</u> <u>Charges</u>	Nil	TANTALUS, when operating off Penang, was accurately attacked with depth charges by an enemy surface vessel. The submarine was severely shaken and minor electrical fittings were smashed and carried away. Two hull valves which jumped off their seatings were the most serious defects. The first was the port main circulating water discharge to the muffler tank which leaked, thereby putting the full diving pressure on to the liner jackets etc. This meant the submarine could not dive below 120 ft. The second leak was the discharge from the oily bilge line, thereby putting pressure on the pump which leaked from cover to gland. Water squirted in and the vessel became heavier and heavier aft. After a time however both defects were remedied. The gyro was severely shaken and temporarily disturbed.  <u>Fighting Efficiency</u> - Temporarily impaired.
<u>STORM</u> 1st Sept., 1944	One <u>Direct</u> <u>Hit Shell</u>	Nil	STORM, while on the surface attacking an enemy convoy off Mergui harbour, received a direct hit, with a shell, from one of the enemy escorts. The shell struck the bridge of the STORM and caused only minor damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>STRONGBOW</u> 4th Sept., 1944	Two <u>Depth</u> <u>Charges</u> from aircraft	Nil	STRONGBOW received minor damage from two depth charges dropped by enemy aircraft.  <u>Fighting Efficiency</u> - Not impaired.
<u>VIVID</u> 10th Sept., 1944	<u>Depth</u> <u>Charges</u>	Nil	VIVID, after attacking a merchant ship, dived to 300 ft. and was then depth charged by the enemy escort. Three charges were dropped, only one of which was near enough to cause any damage. This damage included a leak which developed in the starboard stern tube.  <u>Fighting Efficiency</u> - Not impaired.



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<u>SPIRIT</u> 14th Sept., 1944	<u>Cannon and Machine Gun</u> from aircraft	Nil	SPIRIT received only minor damage when subjected to a cannon fire and machine gun attack from an enemy aircraft.  <u>Fighting Efficiency</u> - Not impaired.
<u>TUDOR</u> 16th Nov., 1944	<u>Three Bombs</u>	Nil	TUDOR, when bombed by enemy aircraft, received only slight damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>STRATAGEM</u> 22nd Nov., 1944	<u>Depth Charges</u>	Sunk	STRATAGEM was sunk by depth charges from a Japanese destroyer in the Straits of Malacca, the depth of water being 150 ft. One depth charge exploded close underneath, lifting the stern and causing the submarine to hit the bottom hard. This extinguished most of the lights. The next charge exploded amidships and put out the remaining lights. The submarine rapidly flooded throughout.
<u>SHAKESPEARE</u> 3rd Jan., 1945	<u>Five Direct Hit Shells</u> <u>Four Near Miss small Bombs two Near Miss 1000 lb. Bombs</u>	Not repaired	SHAKESPEARE, while operating near Nankauri Strait, surfaced to engage an enemy merchantman with gunfire. The enemy replied and scored four direct hits on the submarine. One shell pierced the pressure hull just forward of the engine room bulkhead door outside the W/T office making a hole 9 inches by 6 inches which was awash when the submarine was underway. The other hits were obtained on the bridge casing and after casing. Later SHAKESPEARE was bombed and raked with machine gun and cannon fire from enemy aircraft. From both these attacks much splinter damage occurred. The gun tower and No.2 port main ballast tank were holed and the upper conning tower hatch could not be shut. The port engine was out of action and the main motors were flooded. Outside the W/T office the starboard side H.P. ring main was severed. The auxiliary oil and water pump, ballast pump, W/T and gyro compass and the diving compass were put out of action, mainly by flooding. Slight damage was sustained by the torpedo tubes.  <u>Fighting Efficiency</u> - Severely impaired. The vessel was unable to dive, and was later taken in tow.



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<u>STRONGBOW</u> 13/14th Jan., 1945	Three <u>Depth</u> <u>Charges</u>	Nil	<p>STRONGBOW sustained slight damage after an enemy depth charge attack. The pressure hull aft was indented at numerous places between frames to a depth varying from 3/16 inch to 7/8 inch. Several small leaks developed, in some of the tanks. Three of the four ft. of the casting of L.P. blower were broken. The main engine bearers suffered slight distortion. Minor damage occurred to electrical installations.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>PORPOISE</u> 19th Jan., 1945	Not known probably aircraft	Sunk	<p>PORPOISE was sunk while operating in the Malacca Straits, probably as the result of an aircraft attack. No further details available.</p>
<u>SCYTHIAN</u> 11th May, 1945	Two <u>Direct</u> <u>Hit 6 pounder</u> <u>Shells</u>	Nil	<p>SCYTHIAN, while operating to the south west of Aroa island in the Malacca Straits, surfaced to engage two Japanese landing craft. One of the enemy returned the fire and scored two hits on the casing of SCYTHIAN causing very minor damage.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>SUBTLE</u> 12th May, 1945	Thirteen <u>Depth</u> <u>Charges</u>	Nil	<p>SUBTLE, while operating to the north east of Aroa island in the Malacca Straits, was depth charged by enemy surface forces. Considerable minor internal damage was caused, most of it, electrical.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>



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<u>TERRAPIN</u> 19th May, 1945	<u>Depth</u> <u>Charges</u>	Not repaired	<p>TERRAPIN was severely damaged by an enemy depth charge attack. The pressure hull and frames on the port side forward were crushed inboard to a maximum of fifteen inches, and there were further small indentations in the pressure hull aft. Some circumferential seams of the pressure hull were sprung, causing leakage, but were closed up by subsequent explosions. The aft end of the vessel was deflected slightly upwards.</p> <p>All the forward tube firing gear was displaced or damaged and the tubes leaked through the bow caps.</p> <p>The main engines were unimpaired, but auxiliary machinery suffered some damage. Periscopes, asdic and hydrophones were damaged severely. Several tanks were leaking and others had suspected leaks.</p> <p><u>Fighting Efficiency</u> - Severely impaired.</p>
<u>TIPTOE</u> 1st June, 1945	Thirteen <u>Depth</u>	Nil	<p>TIPTOE, while operating off the Laurot Islands, was subjected to a depth charge attack by a small enemy destroyer.</p> <p>The asdic tank was flooded and the torpedo armament was put temporarily out of action due to air leaks in the firing system.</p> <p><u>Fighting Efficiency</u> - Temporarily impaired.</p>







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<u>RAWALPINDI</u> 23rd Nov., 1939	<u>Shell</u>	Sunk	RAWALPINDI, whilst patrolling in the northern portion of the North Sea, was attacked by enemy surface forces, probably DEUTSCHLAND and another German cruiser. RAWALPINDI opened fire immediately, but was herself quickly hit by the enemy shell fire. The ship was soon heavily on fire amidships and the bridge was destroyed; the magazines could not be flooded owing to damage to valve gearing etc. RAWALPINDI continued to burn and following a large explosion the ship rolled over and sank about four and a half hours after the commencement of the action. It is considered probable that the foremost magazine blew up.
<u>CARINTHIA</u> 6th-7th June, 1940	One <u>Contact</u> <u>Torpedo</u> fired by submarine	Sunk	CARINTHIA was struck by a torpedo on the port side immediately abaft the engine room. No.4 hold and the engine room were flooded instantaneously and the ship listed 15-20 degrees to port. All power was lost as a result of the flooding of the engine room. Ship was taken in tow, but was abandoned later, and, as the flooding extended, she sank stern first.
<u>SCOTSTOUN</u> 13th June, 1940	Two <u>Contact</u> <u>Torpedoes</u> fired by submarine	Sunk	SCOTSTOUN was struck by a torpedo on the port side aft whilst patrolling at 15 knots. The ship settled aft, with the port engine and steering gear out of action. About half an hour later a second torpedo struck the ship and caused extensive damage in the vicinity of the after magazines. The ship flooded from aft up to the engine room bulkhead and sank.
<u>ANDANIA</u> 15th June, 1940	One <u>Contact</u> <u>Torpedo</u> fired from submarine	Sunk	ANDANIA, whilst on patrol, was struck by a torpedo on the starboard side between Nos.5 and 6 holds. These holds were flooded and flooding took place in the engine room despite the use of the pumps and ejectors. The ship sank about seven hours after being torpedoed.
<u>ESPERANCE BAY</u> 14th July, 1940 D.N.C.4B/R28	One <u>Direct</u> <u>Hit</u> and <u>Near Miss</u> 220 lbs. delay action fuzed <u>Bombs</u>	Unknown	ESPERANCE BAY, whilst en route for Halifax, Nova Scotia, was attacked by enemy aircraft and a direct hit from a bomb was sustained. The bomb struck aft on the roof of the isolation hospital, passed through B deck and exploded on or just above C deck. The steering gear was wrecked and extensive structural damage was caused in the vicinity of the explosion. No.4, 6 inch gun was blown overboard.  <u>Fighting Efficiency</u> - Seriously impaired.



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<u>ALCANTARA</u> 28th July, 1940	Several <u>Direct Hit</u> and " <u>Shorts</u> " 5.9 inch <u>Shells</u>	Uncertain	ALCANTARA, while on a patrol in the South Atlantic, intercepted an enemy surface raider which she engaged with gunfire. ALCANTARA received damage from direct hits and "shorts" which caused some flooding and splinter damage.  <u>Fighting Efficiency</u> - Slightly impaired.
<u>MOOLTAN</u> 31st July, 1940	Two <u>Near</u> <u>Miss Bombs</u>	Unknown	MOOLTAN, soon after leaving Plymouth on passage for Freetown, was attacked by an enemy aircraft which dropped two heavy bombs, one fell close to the port side aft and the other close to the starboard bow. The first bomb caused considerable damage. In a further attack four hours later two bombs fell close astern and the ship was machine gunned.  <u>Fighting Efficiency</u> - Slightly impaired.
<u>TRANSYLVANIA</u> 10th Aug., 1940	One <u>Contact</u> <u>Torpedo</u> fired from submarine	Sunk	TRANSYLVANIA was proceeding from her base when a torpedo hit abreast No.4 gun on the port side. The engine room was flooded immediately and the after end of the ship also flooded quickly. The ship slowly settled, listed to port, and finally sank about four and a half hours after being struck.
<u>DUNVEGAN CASTLE</u> 27th-28th Aug., 1940	Three <u>Contact</u> <u>Torpedoes</u> fired from submarine	Sunk	DUNVEGAN CASTLE, whilst proceeding at 14 knots, was struck by a torpedo abreast the refrigerator and generator rooms on the starboard side, the main engines and generators were brought to a standstill. About half an hour later a second torpedo struck the ship a short distance abaft the point of the first explosion. Forty minutes later a third torpedo struck the port side just abaft the engine room. The ship remained afloat for about seven hours and only sank when the flooding in the engine room and adjacent spaces spread to No.2 hold.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>WOLFE</u> 12th Sept., 1940</p>	<p>One <u>Direct Hit Bomb</u> which did not detonate</p>	<p>Nil</p>	<p>WOLFE was attacked by enemy aircraft and one bomb hit the deck, causing slight superficial damage to a ventilator. The bomb did not detonate and was thrown overboard.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<p><u>CHESHIRE</u> 14th Oct., 1940 D.N.C.4B/R162</p>	<p>One <u>Torpedo</u> fired from submarine</p>	<p>6 months</p>	<p>CHESHIRE while on patrol, at 15 knots, was struck by a torpedo on the starboard side in the centre of No.2 Hold.</p> <p>A rectangular hole 36 ft. long by 20 ft. deep was made in the ship's side extending approximately from the turn of bilge up to the waterline. The lower deck in way of No.2 Hold was buckled and the tank margin, damaged by splinters. The transverse bulkheads at the forward and after ends of No.2 Hold were perforated by splinters. The plating at the after end of No.2 Hatch in the way of magazine escapes was blown off, the remainder of the plating remaining intact.</p> <p>Nos.2 and 3 Holds, Nos.2 and 3 double bottom tanks flooded immediately while No.1 Hold flooded slowly. Water slowly filtered into No.4 hold to a depth of 2 inches. All flooding was uncontrolled.</p> <p>No.1 Gun sustained minor damage and was out of action. The main and auxiliary machinery was undamaged.</p> <p><u>Fighting Efficiency</u> - Seriously impaired.</p> <p>No.1 six inch gun was out of action and only a very slow speed could be maintained.</p> <p><u>REMARKS</u> This incident emphasised the necessity to use other ballast than sand ballast which in this case choked the pump suction.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>PATROCLUS</u> 3/4th Nov., 1940	Seven Contact <u>Torpedoes</u> fired from submarines. Two <u>Direct</u> <u>Hit Shells</u>	Sunk	<p>PATROCLUS was engaged in the rescue of survivors from the s.s. CASANARE when she was torpedoed.</p> <p><u>Hit No.1</u> occurred on the starboard side abreast the forward well deck.</p> <p><u>Hit No.2</u> occurred in No.4 Hold.</p> <p><u>Hit No.3</u> in the cross bunker.</p> <p><u>Hit No.4</u> occurred in No.6 Hold and blew S.3 gun overboard.</p> <p>PATROCLUS was then shelled by the U-boat and was hit twice, once amidships and one aft, but this caused no apparent damage. The submarine again submerged when PATROCLUS returned fire.</p> <p><u>Hit No.5</u> occurred ten minutes later in No.3 Hold.</p> <p><u>Hit No.6</u>, 2<math>\frac{3}{4}</math> hours after Hit No.5, occurred right forward underneath the bridge, causing the bridge to completely collapse.</p> <p><u>Hit No.7</u> occurred amidships, 5 minutes later. It appeared to strike in the engine room and the ship began to list very rapidly.</p> <p>PATROCLUS rolled over on her starboard side and commenced to sink, until only her bows remained above water. After a considerable time, estimated to be about 2 hours, the ship disappeared completely.</p>
<u>LAURENTIC</u> 3/4th Nov., 1940	Two <u>Direct</u> <u>Hit</u> <u>Torpedoes</u> and explosion cause unknown	Sunk	<p>LAURENTIC, while proceeding at 15 knots, en route to Liverpool, and in the vicinity of the PATROCLUS action, was torpedoed and sunk.</p> <p><u>Hit No.1</u> occurred in the starboard side of the engine room, which immediately flooded.</p> <p><u>Hit No.2</u> took place on the starboard side abreast No.4 Hold.</p> <p>LAURENTIC sank about 6 hours after the first torpedo had struck, and immediately after a third explosion, cause unknown, had occurred.</p>
<u>JERVIS BAY</u> 5th Nov., 1940	Number unknown <u>Shell</u>	Sunk	<p>JERVIS BAY, while protecting a convoy from an enemy raider, came under very heavy shell fire while her own guns were still outranged.</p> <p>The third salvo put the fore control, steering gear and W/T out of action.</p> <p>JERVIS BAY was continuously hit for nearly an hour and did not sink until three hours after the engagement had started.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>FORFAR</u> 2nd Dec., 1940</p>	<p>Five <u>Torpedoes</u> fired from submarine</p>	<p>Sunk</p>	<p>FORFAR, while on convoy duty, was torpedoed by an enemy submarine. The first torpedo struck on the starboard side in the region of the main engine room putting the engines out of action. A second torpedo struck the ship on the port side shortly followed by another three torpedoes. All the torpedoes were in the vicinity of the engine room. The torpedoes caused the vessel to break her back. The forward and after ends of the vessel rose up towards each other and the vessel sank about 50 minutes after the first torpedo had struck.</p>
<p><u>CARNARVON CASTLE</u> 5th Dec., 1940 D.N.C.4B/R62</p>	<p>Thirty Nine <u>Direct Hit</u> One "Short" 6" and size unknown <u>Shells</u></p>	<p>6 months</p>	<p>CARNARVON CASTLE, while in action with an enemy raider, was hit by shellfire. The structural damage was extensive but not serious. There were about 6 hits on the waterline and a few just above which caused flooding in three compartments. There was no damage to the main machinery. A cordite fire amidships was caused by a direct hit on a ready use ammunition locker.</p> <p><u>Fighting Efficiency</u> - Severely impaired. All fire control was destroyed, together with degaussing, lighting and power circuits. The fire main and sanitary system was damaged. All boats were damaged and rendered unseaworthy.</p> <p><u>REMARKS</u> This incident emphasised the need for reducing inflammable material to the absolute minimum especially in vessels of the A.M.C. type.</p>
<p><u>WORCESTERSHIRE</u> 3rd April, 1941</p>	<p>One <u>Contact</u> <u>Torpedo</u></p>	<p>3½ months</p>	<p>WORCESTERSHIRE, while escorting a convoy, was torpedoed by a U-boat. The torpedo hit the after end of No.1 hold on the starboard side, causing a hole in the shell plating about 24 ft. by 18 ft. and severely damaging the bulkhead between Nos.1 and 2 holds. The lower and main decks abreast No.1 hatch on the starboard side were sheared off and missing. The blast also badly damaged a portion of the forecastle sheer strake and forecastle deck. Flooding occurred in Nos.1 and 2 holds (including the magazine in No.2 hold) and in Nos.1 and 2 double bottoms starboard. The No.2 double bottom port had a slow leak. A fire started in the forecastle but it was soon extinguished.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. Steering was jammed temporarily. Slow speed was necessary to avoid further damage to compartments.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>VOLTAIRE</u> 4th April, 1941	<u>Shell</u>	Sunk	VOLTAIRE was sunk while in action with an enemy raider. No details available.
<u>COMORIN</u> 6th April, 1941	<u>Bombs</u>	Sunk	COMORIN was bombed and sunk. No details available.
<u>RAJPUTANA</u> 13th April, 1941	<u>Two Contact Torpedoes</u>	Sunk	RAJPUTANA was hit by a torpedo on the port side and one on the starboard side. The engines were disabled and machinery spaces flooded, and the ship was abandoned, finally sinking.
<u>SALOPIAN</u> 13th May, 1941	<u>Six Contact Torpedoes</u>	Sunk	SALOPIAN while proceeding unaccompanied towards Halifax, was torpedoed by a U-boat. <u>1st torpedo</u> struck on the starboard side at position of the bulkhead between Nos.3 and 4 holds. <u>2nd torpedo</u> was right forward. <u>3rd torpedo</u> struck on the port side about No.5 hold. <u>4th torpedo</u> struck on the starboard side abreast No.5 hold. <u>5th torpedo</u> was in approximately the same position as No.4. <u>6th torpedo</u> struck on the port side amidships, breaking the ships back. Four out of the six holds were flooded, but the ship remained on a fairly even keel until her back was broken by the last torpedo and she then sank.
<u>CALIFORNIA</u> 26th March, 1942	<u>One Direct Hit one Near Miss 250 kgm. Bomb</u>	Nil	CALIFORNIA, while proceeding in the English Channel at 15 knots, was attacked by enemy aircraft. One near miss bomb fell astern and a direct hit on the after deck edge ricocheted overboard without exploding. A support to the docking bridge was fractured.  <u>Fighting Efficiency</u> - Not impaired.
<u>HECTOR</u> 5th April, 1942	<u>Four Direct Hit 500 &amp; 250 lb. delay action fuzed Bombs</u>	Sunk	HECTOR, while in Colombo Harbour, was attacked by enemy aircraft and sustained direct bomb hits forward of the engine room casing. Nos.1, 2 and 3 holds were flooded. The amidships section was gutted by fire.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>CHESHIRE</u> 18th Aug., 1942 D.N.C.4B/168</p>	<p>One <u>Contact</u> <u>Torpedo</u> fired from submarine</p>	<p>3 months including refit</p>	<p>CHESHIRE, while on passage from Freetown to the United Kingdom, was struck near the bow in way of No.1 hold. A hole 40 ft. by 30 ft. deep was made in the port side and the starboard side plating was perforated in many places. All structure below the middle deck was severely distorted. Flooding was immediate in No.1 hold and the fore peak, and slow in No.2 hold. Main and auxiliary machinery was undamaged.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. "A" gun was unable to train. The ship proceeded at 8 knots.</p>
<p><u>ASTURIAS</u> 25th July, 1943</p>	<p>One <u>Contact</u> <u>Torpedo</u> fired from submarine</p>	<p>Repaired in U.S.A. completion date unknown</p>	<p>ASTURIAS, while acting as Ocean Escort to two sections of a floating dock which was being towed from Bahia to Dakar, was struck by a torpedo just abaft the forward bulkhead of the boiler room, on the port side. A hole 23 ft. by 20 ft. approximately was made in the ship's side and the forward bulkhead of the boiler room was extensively damaged. Immediate flooding occurred in the boiler room, engine room, auxiliary machinery room, galley and the deep oil fuel tanks before and abaft the machinery spaces. Partial flooding took place in the forward section of the shaft tunnel, 3 inch H.A. magazine, main provision and refrigerated store rooms and bakery flat. The ship listed <math>3\frac{1}{2}</math> degrees to port. All lighting and power was lost due to flooding of the auxiliary machinery room, and the communications to the engine room failed.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was immobilised and taken in tow.</p>







SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>MOSQUITO</u> (River Gunboat) 1st June, 1940	Size and type unknown <u>Bomb</u>	Sunk	MOSQUITO was attacked by enemy aircraft and sunk by bomb during the evacuation from Dunkirk. No further information available.
<u>GANNET</u> (River Gunboat) 6th Sept., 1940	<u>Near Miss</u> size and type unknown <u>Bomb</u>	Nil	GANNET was attacked whilst in the North Atlantic and minor structural damage and flooding was caused by near misses.  <u>Fighting Efficiency</u> - Not impaired.
<u>LOCUST</u> (River Gunboat) 8th Oct., 1940 D.N.C.4B/R49	One <u>Non-Contact</u> <u>Acoustic</u> <u>Mine</u> in 15 fathoms	5½ months	LOCUST was proceeding at 14 knots in a position 3½ cables north of N.W. Shingles Beacon when a heavy explosion occurred 10 to 15 yards astern of her. The plating between frames was dished, up to a maximum of 1 inch, from the middle of the engine room to the stern. The inboard arm of the port 'A' bracket was fractured and minor machinery damage sustained. The hold was flooded from the fresh water tank aft.  <u>Fighting Efficiency</u> - Seriously impaired. LOCUST proceeded under her own power until the weather deteriorated when she was taken in tow.
<u>FRANKLIN</u> (Surveying Ship) 19th Nov., 1940	Two <u>Near Miss</u> 50 kgm delay action fuzed <u>Bombs</u>	Nil	FRANKLIN, whilst proceeding at 13 knots in the North Sea, was attacked by enemy aircraft. Six bombs were dropped by the aircraft in a shallow dive and near misses fell 30 ft. to port and 40 ft. to starboard. No structural damage was sustained, but minor machinery damage occurred.  <u>Fighting Efficiency</u> - Not impaired.
<u>ALECTO</u> (Submarine Depot Ship) 27th March, 1941	One <u>Direct Hit</u> size unknown delay action fuzed <u>Bomb</u>	Nil	ALECTO was proceeding at 10 knots at the entrance to the English Channel when she was attacked by an enemy aircraft. A bomb carried away the truck of the mainmast and the W/T aerials, struck the water about 50 ft. to port, ricocheted and burst underwater about 100 to 150 yards away.  <u>Fighting Efficiency</u> - Not impaired. <u>Temporary loss of W/T aerials.</u>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>PROTECTOR</u> (Net Layer) 22nd April, 1941	Near <u>Miss</u> size and type unknown <u>Bomb</u>	Nil	PROTECTOR, during an air attack on Suda Bay, sustained minor structural and auxiliary machinery damage.  <u>Fighting Efficiency</u> - Not impaired.
<u>CORFIELD</u> (Mine Destructor Ship) 9th May, 1941	Near <u>Miss</u> size and type unknown <u>Bomb</u>	Nil	CORFIELD was attacked by enemy aircraft. No structural damage was sustained, but joints in steam pipes were loosened.  <u>Fighting Efficiency</u> - Not impaired.
<u>LADYBIRD</u> (River Gunboat) 12th May, 1941	Two <u>Direct</u> <u>Hit</u> size and type unknown <u>Bombs</u>	Sunk	LADYBIRD was dive bombed whilst in Tobruk Harbour. One direct hit occurred aft and another amidships, the after end disintegrated and a serious fire broke out in the remaining structure. LADYBIRD was abandoned and sank in harbour.
<u>FRANKLIN</u> (Surveying Ship) 13th May, 1941	Four <u>Near</u> <u>Miss</u> size and type unknown <u>Bombs</u>	Nil	FRANKLIN was proceeding at 14 knots in the North Sea when a stick of four bombs was dropped by an enemy aircraft, the nearest bomb bursting 50 yards astern. Minor structural damage was sustained and a minor oil fuel leak developed in the port diesel tank.  <u>Fighting Efficiency</u> - Not impaired.
<u>FRANKLIN</u> (Surveying Ship) 3rd June, 1941	Two <u>Near</u> <u>Miss</u> 250 kgm delay action fuzed <u>Bombs</u>	9 days	FRANKLIN was attacked by an enemy aircraft whilst weighing a floating beacon in the North Sea. One near miss dropped 40 ft. abreast the mainmast and another 60 ft. abreast the quarter deck. Minor structural damage was sustained abreast the explosions and minor damage occurred to main and auxiliary machinery castings. Minor leaks were caused in No.1 oil fuel tank.  <u>Fighting Efficiency</u> - Slightly impaired. The endurance was reduced due to contaminated oil fuel. The gyro compass was damaged.
<u>CRICKET</u> (River Gunboat) 30th June, 1941	Size and type unknown <u>Bomb</u>	Broken up	CRICKET was attacked whilst at Mersa Matruh. Severe structural damage was sustained over the whole length of the ship, the stern dropped about one foot and the boiler room was flooded. CRICKET was a total structural loss.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>PROTECTOR</u> (Net Layer) 11th Aug., 1941 D.N.C.4B/R194</p>	<p>One <u>Torpedo</u> <u>Contact</u> dropped by aircraft in 20 fathoms</p>	<p>4 years</p>	<p>PROTECTOR, whilst proceeding at 13 knots from Port Said to Alexandria, was struck by a torpedo abreast the after bulkhead of the engine room on the port side about 7 ft. below the water line. An irregular hole 32 ft. long by 24 ft. deep was blown in the outer bottom, and severe damage caused to internal structure and side plating in the vicinity of the explosion. PROTECTOR was flooded from the forward bulkhead of the engine room to the after bulkhead of the 4 inch magazine. The main machinery was <b>seriously</b> damaged and auxiliary machinery sustained minor damage. All lighting and power was lost.</p> <p><u>Fighting Efficiency</u> - Severely impaired. PROTECTOR was immobilised due to immediate flooding of the engine room. The H.A. armament was out of action owing to the flooding of the magazines.</p>
<p><u>WOOLWICH</u> (Destroyer Depot Ship) 5th-6th Sept., 1941</p>	<p>One <u>Near</u> <u>Miss</u> direct action fuzed <u>Bomb</u></p>	<p>Nil</p>	<p>WOOLWICH, during an air raid on Alexandria, was damaged by a near miss bomb which exploded 40 ft. to starboard abreast the capstan. Extensive splinter damage was sustained above the lower deck forward. The pipe system to the petrol tank was damaged and the fire main cut. Minor fires were started.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<p><u>CORFIELD</u> (Mine Destructor Ship) 8th Sept., 1941</p>	<p><u>Mine</u></p>	<p>Sunk</p>	<p>CORFIELD was sunk by a mine off the Humber. No further details available.</p>
<p><u>GNAT</u> (River Gunboat) 21st Oct., 1941</p>	<p>One <u>Contact</u> <u>Torpedo</u> fired from submarine</p>	<p>Indeterminate Ship not repaired</p>	<p>GNAT was 30 miles north east of Bardia when a torpedo struck her under the port anchor. The bow and 30 ft. of the starboard plating was destroyed. The fore end was flooded to the waterline immediately. Minor fires were caused by calcium floats. Engine and boiler rooms were shut down and flooding spread due to adverse weather conditions.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. GNAT was immobilised and taken in tow.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>LATONA</u> (Fast Minelayer) 25th Oct., 1941 D.N.C.4B/R127	(i) One <u>Direct Hit</u> 250 lbs. delay action fuzed <u>Bomb</u> (ii) <u>Torpedo</u> fired by own forces	Sunk	LATONA was on passage to Tobruk at 26 knots when enemy aircraft attacked and one bomb passed through the port side and burst in the engine room. A serious fire broke out amongst the cargo of munitions and in the engine room. The firemain was cut and out of action. 'Y' gun and pom-pom were also out of action. A heavy explosion aft caused the fire to spread. LATONA was abandoned and sunk by own forces.
<u>PETEREL</u> (River Gunboat) 8th Dec., 1941	(i) <u>Direct Hit Shell</u> (ii) <u>Scuttled</u>	Sunk	PETEREL, whilst in Shanghai harbour, was attacked by a Japanese cruiser and destroyers. Many direct hits set the ship on fire, fore and aft. PETEREL was abandoned and scuttled.
<u>CICALA</u> (River Gunboat) 10th Dec., 1941	One <u>Direct Hit Shell</u>	Indeterminate See below *	CICALA was at Hong Kong during the Japanese invasion and was hit on the stern with a dud shell, sustaining minor damage. The ship was docked for repairs.  <u>Fighting Efficiency</u> - Impaired.
<u>TERN</u> (River Gunboat) 11th Dec., 1941	<u>Near Miss Bombs</u>	Indeterminate Scuttled on 19th Dec., 1941	TERN, whilst at Hong Kong during the Japanese invasion, sustained damage from near miss bombs, one of which put one boiler out of action, damaged the other and blew down the wireless aerials.  <u>Fighting Efficiency</u> - Impaired. Speed was reduced to 8 knots.
<u>ROBIN</u> (River Gunboat) 16th Dec., 1941	<u>Near Miss Bombs</u>	Nil	ROBIN sustained superficial damage from splinters whilst at Hong Kong during the Japanese invasion.  <u>Fighting Efficiency</u> - Not impaired.
<u>CICALA</u> (River Gunboat) 21st Dec., 1941	(i) <u>Direct Hit</u> and <u>Near Miss Bombs</u> (ii) <u>Depth Charges</u>	* Sunk	CICALA during the Japanese invasion of Hong Kong, was straddled by five bombs, one or more of which were direct hits. A serious fire developed and got out of control. CICALA was abandoned and sunk by depth charges dropped by own forces from a motor torpedo boat.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>ROBIN</u> (River Gunboat) 22nd Dec., 1941	Nine <u>Near Miss Bombs</u>	Nil (Scuttled on 25th Dec., 1941)	ROBIN, whilst at Hong Kong during the Japanese invasion sustained minor splinter damage from near miss bombs.  <u>Fighting Efficiency</u> - Not impaired.
<u>ENDEAVOUR</u> (Survey Ship) 21st Jan., 1942	Near Miss <u>Bombs</u>	Nil	ENDEAVOUR, whilst operating in the Indian Ocean, west of Achin Head, sustained minor underwater damage from near miss bombs.
<u>CULVER</u> (Ex U.S. Cutter) 31st Jan., 1942	Two <u>Torpedoes</u> fired from submarine	Sunk	CULVER was struck by two torpedoes, one forward and one aft, whilst operating in the North Atlantic. The ship sank in about one minute.
<u>SCORPION</u> (River Gunboat) 9th Feb., 1942	One <u>Direct Hit</u> and Two <u>Near Miss Bombs</u>	Indeterminate see below	SCORPION was on passage to Singapore when a direct bomb hit on 'A' gun R.U. locker caused a fire in the cabin flat. Near misses caused serious damage to the bows and starboard side plating.  <u>Fighting Efficiency</u> - Seriously impaired. Speed reduced to 8 knots.
<u>SCORPION</u> (River Gunboat) 13th Feb., 1942	Several <u>Direct Hit Shells</u>	Sunk (See above)	SCORPION was attacked by Japanese Cruiser and Destroyers, a hit in the boiler room punctured the main steam pipe. The ship was repeatedly hit and serious fires started. SCORPION was abandoned, heeled to port, and sank by the bows.
<u>GRASSHOPPER</u> (River Gunboat) 14th Feb., 1942	Two <u>Direct Hit Bombs</u>	Beached on territory in enemy occupation	GRASSHOPPER was en route from Singapore during the evacuation when she sustained two direct bomb hits aft. The ship was beached and abandoned North of Singkep, the after magazine blew up, and a serious fire started.
<u>DRAGONFLY</u> (River Gunboat) 14th Feb., 1942	Three <u>Direct Hit Bombs</u>	Sunk	DRAGONFLY, during the Singapore evacuation, whilst near Blakan Outan, was hit three times and, after about 10 minutes, capsized and sank by the stern. No further information available.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>LUCIA</u> (Submarine Depot Ship) 5th April, 1942	<u>One Direct Hit 500 lb. delay action fuzed Bomb</u>	14 months	<p>LUCIA, while at Colombo Harbour, sustained a direct hit by a bomb dropped by Japanese aircraft.</p> <p>The bomb struck on the starboard side of the .5 inch machine gun platform, perforated five decks, passed out through the starboard side and exploded under the bottom. A hole 20 ft. by 18 ft. was blown in the bottom plating, damage and flooding was extensive.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. Speed was reduced to 5 knots.</p>
<u>WELSHMAN</u> (Fast Minelayer) 10th May, 1942	<u>Six Near Miss Bombs</u>	5 months including refit	<p>WELSHMAN, during an air raid on Malta, sustained minor structural damage to the stern. Both cranes were damaged and two turntables on the mining deck unseated.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. Reduced efficiency of mining gear, and R.D.F.</p>
<u>HECLA</u> (Destroyer Depot Ship) 15th May, 1942 D.N.C.4B/R267	<u>One Contact Mine</u>	18 weeks	<p>HECLA was struck by a mine amidships under the keel. Compartments below the armour deck were severely damaged and open to the sea. Steering gear was out of action.</p> <p><u>Fighting Efficiency</u> - Seriously impaired.</p>
<u>CENTURION</u> (Demilitarised Battleship) 15th June, 1942	<u>One Direct Hit Several Near Miss delay action fuzed Bombs</u>	Indeterminate	<p>CENTURION was attacked by enemy aircraft whilst operating in the Mediterranean, three bombs fell ahead and damaged the capstan flat.</p> <p><u>Near Misses</u> off the port side abreast the bridge caused damage to the boiler rooms.</p> <p><u>A hit</u> on the forecastle perforated the upper deck, passed through the ships side and burst on the water causing minor damage.</p> <p>No.1 dynamo was out of action.</p> <p><u>Fighting Efficiency</u> - Not seriously impaired. Ship proceeded at 14½ knots.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>MEDWAY</u> (Submarine depot ship) 30th June, 1942 D.N.C.4B/R186	Two possibly three <u>Contact</u> <u>Torpedoes</u> fired from submarine	Sunk	<p>MEDWAY was sunk whilst operating in the Eastern Mediterranean.</p> <p><u>1st Torpedo</u> struck the starboard side abreast the generator room. The generator room and torpedo body room were flooded, the engine room flooded slowly. <u>All electrical power failed.</u></p> <p><u>2nd Torpedo</u> struck the starboard side abaft the engine room and caused extensive flooding. <u>Possibly a 3rd torpedo</u> hit the starboard propeller. The starboard engine was out of action.</p> <p>MEDWAY capsized and sank within 17 minutes of the first attack.</p>
<u>LOCUST</u> (River Gunboat) 19th Aug., 1942	One <u>Direct</u> <u>Hit Shell</u>	1 week	<p>LOCUST, during the Combined Operations raid on Dieppe, was under fire from coastal batteries and received a direct hit on the bridge superstructure.</p> <p><u>Fighting Efficiency</u> - Not seriously impaired.</p>
<u>WALNEY</u> (Ex U.S.A. Cutter) 8th Nov., 1942	<u>Shell</u>	Sunk	<p>WALNEY, during the invasion of North Africa, entered Oran harbour during the initial assault.</p> <p>The ship was seriously damaged by gunfire, but succeeded in landing troops before sinking.</p>
<u>HARTLAND</u> (Ex U.S.A. Cutter) 8th Nov., 1942	<u>Shell</u>	Sunk	<p>HARTLAND, during the invasion of North Africa, entered Oran harbour during the initial assault.</p> <p>Ship was seriously damaged by gunfire, but succeeded in landing troops. Serious fires broke out on board, and HARTLAND later blew up and sank.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>PALOMARES</u> (Anti-Aircraft Escort Ship) 9th Nov., 1942 D.N.C.4B/R210</p>	<p>One <u>Direct</u> Hit Two <u>Near</u> <u>Miss</u> 250 kgm delay action fuzed <u>Bombs</u></p>	<p>7 months including conversion</p>	<p><u>PALOMARES</u> was attacked by enemy aircraft whil operating in Algiers Bay. <u>The direct hit</u> struck just forward of the after gun, pierced the after gun platform, the upper deck, and burst just below in the crew's accommodation. The after superstructure from the mainmast to the after gun including the type 285 radar office, after gunhouse and the after T.S. office were wrecked. The upper deck was destroyed for 18 ft. by 14 ft. and the lower deck holed 6 ft. by 4 ft. Slow flooding occurred in the gunner's store. Steam and telemotor pipes to steering gear were cut. Electrical equipment in the vicinity of the explosion was destroyed. The type 279 radar office and the after T.S. were severely damaged. A fire started in the ammunition lobby on the upper deck. Ammunition was ignited, but was later extinguished by escaping steam. <u>Two near misses</u> fell to starboard, one abreast the engine room and the other at the fore end, these caused only minor damage.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. After 4 inch twin mounting, port and starboard pom-poms, and type 279 and 285 radar were out of action. The steering gear was temporarily out of action.</p>
<p><u>HECLA</u> (Destroyer Depot Ship) 11/12th Nov., 1942 D.N.C.4B/R267</p>	<p>Five <u>Torpedoes</u> fired from submarine</p>	<p>Sunk</p>	<p>HECLA was on passage from Freetown to Gibraltar at 14 knots. Two torpedoes struck the starboard side abreast the boiler rooms. Both boiler rooms were flooded and the ship listed 11 degrees to starboard. All steam was lost immediately. Preparations were made for the ship to be taken in tow. 66 minutes later a third torpedo struck the port side abreast the foremast in the vicinity of the bulkhead between the warhead room and the cold and cool rooms. Immediate flooding of torpedo store, parting space and warhead room, light machine shop, cold and cool rooms and port wing compartments for 172 ft. resulted. The ship listed 17 degrees to port, rapidly increasing to 25 degrees. 10 minutes later a fourth torpedo struck the port side abreast 'X' turret. The list to port rapidly increased, and the ship settled until the quarter deck and port waist were awash. A fifth torpedo struck right aft on the starboard side. The ship heeled over on her beam ends and sank stern first, two hours after the first torpedo hit.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>TYNWALD</u> (Auxiliary Anti-Aircraft Ship) 12th Nov., 1942	<u>Mine</u>	Sunk	TYNWALD was sunk whilst operating off Bougie. No further details are available.
<u>MANXMAN</u> (Fast Minelayer) 1st Dec., 1942 D.N.C.4B/R236	<u>One Contact Torpedo</u> fired from submarine	26½ months	<p>MANXMAN was on passage from Algiers to Gibraltar at 21 knots when a torpedo struck the port side abreast the engine room. The outer bottom forward of the after bulkhead of the engine room and from the bilge keel to 9 ft. below the upper deck was holed 28 ft. by 14 ft. The engine and gearing room side plating from keel to sheer strake was seriously buckled and the side framing destroyed or damaged. The main deck was destroyed in way of the torpedo hole and blown upwards over the engine and gearing rooms. The upper deck was generally buckled over this area. The engine and gearing room bulkhead was torn and buckled on the port side. The fore bulkhead of the engine room and the after bulkhead of the gearing room was slightly buckled. Immediate flooding of the engine and gearing rooms and the port shaft tubes and the plummer block and gland compartments occurred. Minor flooding of the pom-pom magazine, starboard shaft tubes and plummer block and gland compartments was controlled. Slow flooding occurred on the lower deck of the ward room and cabin flats. The ship listed 16 degrees to starboard, which was corrected, by pumping, to 9 degrees. The main and auxiliary machinery on port side was wrecked. Serious damage was caused to that on starboard side. Immediate failure occurred of the H.P. and L.P. electrical supplies. The main cables were cut and the after switchboard wrecked. The H.P. and L.P. supplies forward were restored by diesel dynamo and emergency leads led aft.</p> <p><u>Fighting Efficiency</u> The ship was immobilised and towed to Oran. The engine and gearing room were out of action by damage and flooding. No.3 mounting and asdic were out of action. The efficiency of W/T and Radar were reduced.</p> <p><u>REMARKS</u> The following lessons were learnt from this incident:- (i) Additional clips and stiffening to be fitted to the existing access hatches to the plummer block and gland compartments to withstand increased pressure. (ii) C.A.F.O.556/43 provides for special shoring for the above hatches. (iii) The prime importance of keeping free surface water off the mining deck was demonstrated.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>POZARICA</u> (Auxiliary Anti-Aircraft Ship) 29th Jan. - 13th Feb., 1943</p>	<p>(i) One Contact <u>Torpedo</u> dropped by aircraft (ii) Demolition charges</p>	<p>Sunk</p>	<p>POZARICA, on 29th January, whilst escorting a convoy in the Mediterranean, was struck at the after end by a torpedo. The majority of the compartments abaft the engine room were flooded, slow flooding occurred into the engine room. Extensive structural damage was sustained to the stern. Both guns were blown out of the after mounting. POZARICA was taken in tow and grounded in Bougie harbour with the boat deck aft awash. Salvage operations were commenced and minor leaks got under control. On 13th February, 1943, demolition charges used to remove the underwater stern wreckage caused damage to a watertight door in the engine room bulkhead, at the forward end of the shaft passage. The engine room flooded rapidly and the ship capsized. The ship was a total loss.</p>
<p><u>WELSHMAN</u> (Fast Minelayer) 1st Feb., 1943</p>	<p>Three probably <u>Non-Contact</u> <u>Torpedoes</u> fired from submarine</p>	<p>Sunk</p>	<p>WELSHMAN was proceeding in the Mediterranean at 25 knots when three explosions occurred aft. One under the stern which was thought to have caused the major damage and two others further forward. Serious structural damage occurred abaft the after oil fuel tanks. The mining and upper decks over the after cabin flats were fractured. The after bulkhead and the crown of the after oil fuel tanks were thought to be damaged and leaking. A severe buckle across upper deck abreast after funnel occurred. The flooding was probably immediate in all compartments abaft the after oil fuel tanks and below the mining deck and later extended to the wardroom flat, mining deck, port and starboard plumper block and gland spaces, after oil fuel tanks and gearing room. The ship immediately listed 5 to 10 degrees to starboard with the mining deck practically awash. Both engines stopped. The starboard engine jammed, and the port propeller was probably missing. Calcium floats started minor fire aft. The type 286 radar was out of action. About 53 minutes after the explosions the list to starboard suddenly increased and continued till the ship was on her beam ends. 5 minutes later the ship sank stern first.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>ABDIEL</u> (Fast Minelayer) 10th Sept., 1943</p>	<p>Probably a <u>Ground Mine</u> in 12 fathoms type G.N. charge 1800 lbs. (Wired to fire as a time charge)</p>	<p>Sunk</p>	<p>ABDIEL was at anchor in Taranto Harbour when a violent explosion occurred. It was thought to have been under the bottom, and caused severe whipping. The ship broke in two just abaft the engine room. The lower deck was fractured and opened up in way of the forward oil fuel tanks. Flooding was extensive. Both boiler rooms, the main W/T office and low power room are known to have filled rapidly. The secondary lighting came on momentarily and then went out. After the explosion the ship immediately trimmed by the stern and listed to port. She partially righted herself 30 seconds later, but after a period of a few seconds, heeled rapidly over to port and sank by the stern in about 2 minutes. The two extremities remained above water at a very steep angle for a few minutes before finally becoming submerged.</p>
<p><u>LINNET</u> (Minelayer) 1st Nov., 1943</p>	<p>Probably a <u>Circling</u> <u>Torpedo</u> dropped by aircraft</p>	<p>3 months</p>	<p>LINNET was at anchor in Naples Bay when an explosion occurred at the fore end on the port side abreast the tail cable compartment, and about 4 ft. below the waterline. A hole in ship's side about 10½ ft. long extended from just below the upper deck to within 6 ft. of the keel. The plating abreast the cable compartment was blown in; the forward and after bulkheads were damaged by splinters, and the upper deck was buckled and blown upwards. The forward mine rails were distorted. Immediate flooding, extended over about 56 ft., including the tail cable compartment, the messdecks forward and abaft this compartment, and the port wing spaces below the lower deck. The ship heeled 7 degrees to starboard. Flooding could not be successfully controlled and LINNET was eventually beached stern first. Steam pipes to the forward cable capstan, were fractured. The E/S gear was wrecked.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was beached due to uncontrollable flooding at fore end. The forward minelaying equipment and E/S gear were out of action.</p>
<p><u>VIENNA</u> (Depot Ship) 2nd Dec., 1943</p>	<p><u>Near Miss</u> <u>Bombs</u></p>	<p>8 months including refit</p>	<p>VIENNA, during an air raid, whilst in Bari Harbour, was damaged by near miss bombs, but was still seaworthy. No further details available.</p> <p><u>Fighting Efficiency</u> - Impaired.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>PALOMARES</u> (Anti-Aircraft Ship) 21st Jan., 1944</p>	<p>One <u>Mine</u> in 42 fathoms probably <u>contact</u></p>	<p>14 months</p>	<p>PALOMARES was steaming slowly off the west coast of Italy when a mine exploded at the after end. The stern was wrecked from the keel to 5 ft. below the upper deck and for 30 ft. forward of the stern post. The stern frame and rudder were destroyed. The ship was open to the sea over 36 ft. forward of the stern post, including the main shaft tunnel and steering compartment. Flooding in the engine room, the port and starboard diesel room and in the after 4 inch magazine was controlled. The steering engine was destroyed and the tail shafting and propeller were missing. The after 4 inch gun was damaged. Three W/T generators were immersed and radar equipment was damaged by shock.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was immobilised owing to the loss of propeller and tail shafting. The steering engine and after 4 inch gun were out of action. Type 281 radar was temporarily unusable.</p>
<p><u>LAWFORD</u> (Frigate converted to L.S.H.) 8th June, 1944</p>	<p>Probably a <u>Torpedo</u> dropped by aircraft</p>	<p>Sunk</p>	<p>LAWFORD, while patrolling off the Normandy beaches, was attacked by enemy aircraft and a burst of tracer was seen to hit the port side amidships. Immediately afterwards a violent explosion occurred abreast the funnel on the port side. The ship was stopped and a heavy list to starboard developed. Five minutes later LAWFORD began to break up amidships and was abandoned. After a further three minutes the structure amidships collapsed and both ends sank until they touched bottom, leaving the extreme bow and stern above water.</p>
<p><u>LOCUST</u> (River Gunboat) 16th June, 1944</p>	<p><u>Shell</u></p>	<p>Nil</p>	<p>LOCUST, while operating off the Normandy beaches, was fired on by shore batteries and hit by shell which caused slight damage.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<p><u>ALBATROSS</u> (Seaplane tender) 24th June, 1944</p>	<p>One <u>Direct Hit</u> with 5.9 inch <u>Shell</u></p>	<p>Nil</p>	<p>ALBATROSS, while operating off the Normandy beaches, was fired on by shore batteries. A shell hit the port pom-pom ready-use magazine, situated on the upper deck just abaft the funnel. There was minor damage only near the burst.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>NITH</u> (Frigate converted to L.S.H.) 24th June, 1944</p>	<p><u>Composite Aircraft</u></p>	<p>1 month</p>	<p>NITH was operating off the Normandy beaches, when the lower explosive and pilotless half of a composite aircraft exploded off the starboard side amidships. Splinters caused extensive and serious damage above the waterline. Three forward oil fuel tanks were pierced by splinters and the loss of oil resulted in a 4<math>\frac{1}{2}</math> degree list to port. Main and auxiliary steam pipes in the engine room were cut, the compartment was temporarily evacuated and the boilers shut down due to escaping steam. All electrical power failed owing to the loss of steam. Essential services were supplied from the diesel generator. W/T aeriels were brought down and types 271 and 291 radar damaged.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was temporarily immobilised due to the loss of steam. Armament was in local control and the D.G. out of action.</p>
<p><u>ALBATROSS</u> (Seaplane tender) 11th Aug., 1944</p>	<p>One <u>Contact Torpedo</u> of "Slow Worm" type</p>	<p>Indeterminate (Ship placed in reserve)</p>	<p>ALBATROSS was at anchor off the Normandy coast when a torpedo struck the fore end just forward of the 4.7 inch magazine, on the port side about 7 ft. below the waterline. The hole in side plating was 20 ft. long by 13 ft. deep with surrounding plating dished inboard from the keel to just below lower deck over a length of 48 ft. Internal damage extended beyond the middle line; the lower deck was badly damaged and blown upwards. The keel was set up about 6 inches in way of the explosion. No damage occurred on the starboard side. There was uncontrolled flooding to the waterline over a length of 104 ft. including the forward 4.7 inch magazine, warhead magazine and gyro compass room. The ship heeled rapidly 15 degrees to port, but was corrected by counterflooding. Electrical power temporarily failed owing to the ring main being fractured. There were many casualties due to carbon-monoxide and nitrous-oxide fumes. (The explosion occurred just under two mess spaces, in the early morning).</p> <p><u>Fighting Efficiency</u> - Seriously impaired. Speed was reduced due to flooding and resultant trim by the fore end. The forward guns were in local control with magazines flooded.</p>



SHIP OF INCIDENT	NATURE OF ATTACK	TIME AND DATE
<p>On the morning of the 15th instant, the ship was en route from ... to ... The ship was struck by a ... at approximately 10:00 AM. The explosion was heard throughout the ship and caused considerable damage to the hull and superstructure. The ship was damaged and ... The ship was ... The ship was ...</p>		
<p>The ship was damaged and ... The ship was ... The ship was ...</p>		



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.32	6th September, 1940	Machine gun and cannon	Nil	M.T.B.22	17th June, 1941	Mine (Non contact)	4½ months
M.T.B.29	11th September, 1940	Shell (Shorts) During bombardment of Dover	Nil	M.T.B.71	22nd June, 1941	Machine gun	Nil
M.T.B.71	11th September, 1940	Shell (Shorts) During bombardment of Dover	4 months	M.T.B.49	23rd July, 1941	Machine gun	Nil
M.T.B.15	23/24th September, 1940	Mine	Sunk	M.T.B.51	23rd July, 1941	Machine gun	Nil
M.T.B.6 (NORWEGIAN)	25th September, 1940	Unknown	Sunk	M.T.B.71	23rd July, 1941	Machine gun and cannon	2 months
M.T.B.106	16th October, 1940	Mine	Sunk	M.T.B.35	9th September, 1941	Shell	33 weeks
M.T.B.17	21st October, 1940	Probably Mine	Sunk	M.T.B.218	3rd November, 1941	Shell	Nil
M.T.B.16	31st October, 1940	Unknown	Abandoned	M.T.B.218	3rd December, 1941	Shell	2 months
M.T.B.22	31st October, 1940	Mine (Non contact)	7 days	M.T.B.219	3rd December, 1941	Shell	Nil
M.T.B.30	1st December, 1940	Shell	Nil	M.T.B.221	3rd December, 1941	Shell	Nil
M.T.B.41	14th February, 1941	Mine	Sunk	M.T.B.8	16th December, 1941	Bombed during Japanese assault on Hong Kong	Blew up on slipway
M.T.B.50	15th May, 1941	Bomb (near miss)	5 months	M.T.B.10	16th December, 1941		Nil
M.T.B.67	23rd May, 1941	Lost during the evacuation of Crete	Sunk	M.T.B.26	16th December, 1941		Nil
M.T.B.213	23rd May, 1941		Sunk	M.T.B.7	19th December, 1941	Shelled when in action against Japanese at Hong Kong	Nil
M.T.B.214	23rd May, 1941		Sunk	M.T.B.9	19th December, 1941		Nil
M.T.B.216	23rd May, 1941		Sunk	M.T.B.11	19th December, 1941	Shelled when in action against Japanese at Hong Kong	Nil
M.T.B.217	23rd May, 1941		Sunk	M.T.B.12	19th December, 1941		Sunk
				M.T.B.26	19th December, 1941		Sunk



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.7	26th December, 1941	All ships had received some damage during the bombardment of Hong Kong	Scuttled in 2 fathoms during the evacuation of Hong Kong	M.T.B.45	7th August, 1942	Shell	10 months including collision damage repairs
M.T.B.9	26th December, 1941			M.T.B.48	7th August, 1942	Shell	Nil
M.T.B.10	26th December, 1941			M.T.B.221	7th August, 1942	Shell	Nil
M.T.B.11	26th December, 1941			M.T.B.232	7th August, 1942	Shell	Nil
M.T.B.27	26th December, 1941			M.T.B.237	7th August, 1942	Shell	Sunk
M.T.B.38	17th January, 1942	Machine gun	3 weeks	M.T.B.327	7th August, 1942	Shell	24 days
M.T.B.47	17th January, 1942	Enemy surface craft	Sunk	M.T.B.43	18th August, 1942	Probably shell	Sunk
M.T.B.71	12th February, 1942	Shell	6 months	M.T.B.87	21/22nd August, 1942	Shell	Nil
M.T.B.31	3rd March, 1942	Shell	30 weeks	M.T.B.72	24/25th August, 1942	Shell	1 month
M.T.B.42	28th April, 1942	Bomb	Nil	M.T.B.87	28/29th August, 1942	Shell	1 week
M.T.B.219	13th May, 1942	Shell	Nil	M.T.B.230	10/11th September, 1942	Machine gun	1 month
M.T.B.220	13th May, 1942	Shell	Sunk	M.T.B.310	14th September, 1942	Bomb	Sunk
M.T.B.221	13th May, 1942	Shell	Sunk	M.T.B.312 D.N.C.4B/R219	14th September, 1942	Cannon fire	Sunk
M.T.B.229	14/15th June, 1942	Shell	Nil	M.T.B.308	14th September, 1942	Bomb	Sunk
M.T.B.201	15th June, 1942	Shell	Sunk	M.T.B.234	30th September, 1942	Machine gun	1 month
M.T.B.32	29th July, 1942	Shell	7 weeks	M.T.B.70	5/6th October, 1942	Shell	Nil
M.T.B.35	7th August, 1942	Shell	Nil	M.T.B.50	29th October, 1942	Shell	Nil
M.T.B.38	7th August, 1942	Shell	Nil				
M.T.B.44	7th August, 1942	Shell	Sunk				



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.87	31st October, 1942	Mine	Sunk	M.T.B.93	16th March, 1943	Shell	8 days
M.T.B.30	18th December, 1942	Mine	Sunk	M.T.B.629	23rd March, 1943	Shell	Nil
M.T.B.264	21st January, 1943	Shell	Nil	M.T.B.315	1st April, 1943	Shell	Nil
M.T.B.260	21st January, 1943	Shell	Nil	M.T.B.625	15th April, 1943	Mine	19 weeks
M.T.B.313	21st January, 1943	Shell	Nil	M.T.B.634	16/17th April, 1943	Shell	Nil
M.T.B.264	1st February, 1943	Shell	Nil	M.T.B.656	16/17th April, 1943	Shell	Nil
M.T.B.77	15/16th February, 1943	Shell	Nil	M.T.B.233	18th April, 1943	Shell	Nil
M.T.B.82	15/16th February, 1943	Shell	Nil	M.T.B.232	21st April, 1943	Shell	Nil
M.T.B.262	24th February, 1943	Presumed mine	Overdue presumed lost	M.T.B.633	28th April, 1943	Shell	Nil
M.T.B.416	27/28th February, 1943	Shell	Nil	M.T.B.639	28th April, 1943	Bomb or cannon fire	Sunk by own forces
M.T.B.32	28th February, 1943	Shell	Nil	M.T.B.241	29th April, 1943	Shell	2 months
M.T.B.72	28th February, 1943	Shell	Nil	M.T.B.233	29th April, 1943	Shell	Nil
M.T.B.622	10th March, 1943	Shell	Sunk	M.T.B.234	29th April, 1943	Shell	Nil
M.T.B.624	10th March, 1943	Shell	Nil	M.T.B.630	1st May, 1943	Shell	6 days
M.T.B.35	12th March, 1943	Shell	Nil	M.T.B.632	1st May, 1943	Shell	4 days
M.T.B.38	12th March, 1943	Shell	Nil	M.T.B.311	2nd May, 1943	Mine	Sunk
M.T.B.24	12th March, 1943	Shell	Nil	M.T.B.634	4th May, 1943	Bomb	Nil
M.T.B.613	16th March, 1943	In action off Norway	Sunk	M.T.B.264	10th May, 1943	Mine	Sunk



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.234	14th May, 1943	Shell	Nil	M.T.B.83	17th July, 1943	Shell	3 weeks
M.T.B.232	14th May, 1943	Shell	Nil	M.T.B.223	18th July, 1943	Shell	Nil
M.T.B.244	14th May, 1943	Shell	Nil	M.T.B.244	18th July, 1943	Shell	Nil
M.T.B.632	27th May, 1943	Shell	Nil	M.T.B.356	18th July, 1943	Shell	Nil
M.T.B.628	27th May, 1943	Shell	2 days	M.T.B.75	18/19th July, 1943	Shell	Nil
M.T.B.607	27th May, 1943	Shell	2 days	M.T.B.288	22nd July, 1943	Bomb	Sunk
M.T.B.629	27th May, 1943	Shell	Nil	M.T.B.621	22/23rd July, 1943	Shell	Nil
M.T.B.77	12th July, 1943	Shell	Nil	M.T.B.345	22/23rd July, 1943	Shell	Nil
M.T.B.81	12th July, 1943	Shell	Nil	M.T.B.238	22/23rd July, 1943	Shell	Nil
M.T.B.655	12/13th July, 1943	Shell	Nil	M.T.B.222	22/23rd July, 1943	Shell	5 weeks
M.T.B.656	12/13th July, 1943	Shell	Nil	M.T.B.245	22/23rd July, 1943	Shell	25 days
M.T.B.633	12/13th July, 1943	Shell	Nil	M.T.B.225	24/25th July, 1943	Shell	5 weeks
M.T.B.77	15th July, 1943	Shell	Nil	M.T.B.223	24/25th July, 1943	Shell	7 weeks
M.T.B.82	15/16th July, 1943	Shell	Nil	M.T.B.224	24/25th July, 1943	Shell	Nil
M.T.B.62	16th July, 1943	Shell	Nil	M.T.B.241	24/25th July, 1943	Shell	Nil
M.T.B.57	16th July, 1943	Shell	Nil	M.T.B.244	24/25th July, 1943	Shell	Nil
M.T.B.245	17th July, 1943	Shell	3 months	M.T.B.621	25/26th July, 1943	Shell	10 days
M.T.B.316	17th July, 1943	Shell	Sunk	M.T.B.665	15th August, 1943	Shell	Sunk



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B. 650 D.N.C. 4B/R254	19th August, 1943	Shell	5 weeks	M.T.B. 612	20th September, 1943	Shell	1 month
M.T.B. 630 D.N.C. 4B/R254	19th August, 1943	Shell	12 days	M.T.B. 418	27th September, 1943	Shell	Nil
M.T.B. 356	24/25th August, 1943	Shell	Nil	M.T.B. 231	27th September, 1943	Shell	Nil
M.T.B. 349	25th August, 1943	Shell	Nil	M.T.B. 436	30th September, 1943	Shell	Nil
M.T.B. 77	8th September, 1943	Bomb	Sunk	M.T.B. 433	30th September, 1943	Shell	Nil
M.T.B. 255	8th September, 1943	Shell	Nil	M.T.B. 636	15th October, 1943	Shell	Sunk
M.T.B. 211	11th September, 1943	Shell	3 weeks	M.T.B. 356	16th October, 1943	Shell	Sunk
M.T.B. 416	11th September, 1943	Shell	Nil	M.T.B. 349	16th October, 1943	Shell	1 day
M.T.B. 249	11th September, 1943	Shell	Nil	M.T.B. 675	16th October, 1943	Cannon fire	3 weeks
M.T.B. 349	14th September, 1943	Shell	Nil	M.T.B. 313	17th October, 1943	Bomb	3 months
M.T.B. 350	14th September, 1943	Shell	Nil	M.T.B. 626	20th October, 1943	Shell	Nil
M.T.B. 503	19/20th September, 1943	Shell	1 month including A's and A's	M.T.B. 688	25th October, 1943	Shell	Nil
M.T.B. 617	19/20th September, 1943	Shell	2 days	M.T.B. 669	25th October, 1943	Shell	Sunk
M.T.B. 606	20th September, 1943	Shell	1 month including A's and A's	M.T.B. 607	25th October, 1943	Shell	5 months including collision repairs
M.T.B. 610	20th September, 1943	Shell	1 week	M.T.B. 603	25th October, 1943	Shell	Nil
				M.T.B. 610	25th October, 1943	Shell	5 weeks



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.442	25th October, 1943	Shell	5 months	M.T.B.243	2nd December, 1943	Bomb	3 weeks approx.
M.T.B.439	25th October, 1943	Shell	2 days	M.T.B.296	2nd December, 1943	Bomb	3 months approx.
M.T.B.240	28th October, 1943	Shell	Nil	M.T.B.289	2nd December, 1943	Bomb	2 months approx.
M.T.B.208	28th October, 1943	Shell	Nil	M.T.B.242	2nd December, 1943	Bomb	5 weeks approx.
M.T.B.621	3rd November, 1943	Shell	3 weeks	M.T.B.290	2nd December, 1943	Bomb	5 weeks
M.T.B.650	3rd November, 1943	Shell	8 days	M.T.B.36	2nd December, 1943	Bomb	Not repaired
M.T.B.632	3rd November, 1943	Shell	11 days	M.T.B.357	2nd December, 1943	Bomb	Nil
M.T.B.617	3rd November, 1943	Shell	1 day	M.T.B.360	10th December, 1943	Shell	Nil
M.T.B.630	3rd November, 1943	Shell	2 days	M.T.B.637	19th December, 1943	Shell	Nil
M.T.B.671	3rd November, 1943	Shell	4 days	M.T.B.353	23rd December, 1943	Shell	Nil
M.T.B.606	3rd November, 1943	Shell	Sunk	M.T.B.357	23rd December, 1943	Shell	Sunk. Later salvaged. Not repaired
M.T.B.211	4th November, 1943	Shell	Nil	M.T.B.437	23rd December, 1943	Shell	3½ months
M.T.B.222 H.M.C.S.	9/10th November, 1943	Shell and Collision	Sunk	M.T.B.418	23rd December, 1943	Shell	Nil
M.T.B.93	9/10th November, 1943	Mine	1 month	M.T.B.700	23rd December, 1943	Shell	3 months
M.T.B.73	24th November, 1943	Bomb	Sunk	M.T.B.705	23rd December, 1943	Shell	6 weeks
M.T.B.287	2nd December, 1943	Bomb	2 months approx.	M.T.B.436	23rd December, 1943	Shell	Nil
M.T.B.86	2nd December, 1943	Bomb	1 month approx.				



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.617	24/25th December, 1943	Shell	Nil	M.T.B.417	15th March, 1944	Shell	Sunk
M.T.B.418	29th January, 1944	Shell	6 days	M.T.B.418	15/16th March, 1944	Shell	Nil
M.T.B.417	29th January, 1944	Shell	Nil	M.T.B.253	21/22nd March, 1944	Shell	Nil
M.T.B.443	15th February, 1944	Shell	2 weeks	M.T.B.611	28th March, 1944	Shell	1 month including refit
M.T.B.444	15th February, 1944	Shell	2 months	M.T.B.602	28th March, 1944	Shell	7 weeks
M.T.B.455	15th February, 1944	Shell	6 weeks	M.T.B.608	28th March, 1944	Shell	Nil
M.T.B.439	15th February, 1944	Shell	Nil	M.T.B.614	28th March, 1944	Shell	1 month
M.T.B.441	15th February, 1944	Shell	Nil	M.T.B.615	28th March, 1944	Shell	7 weeks including refit
M.T.B.690	5/6th March, 1944	Shell	1 month	M.T.B.224	30/31st March, 1944	Shell	Nil
M.T.B.689	5/6th March, 1944	Shell	3 weeks	M.T.B.244	30/31st March, 1944	Shell	Nil
M.T.B.694	5/6th March, 1944	Shell	Nil	M.T.B.241	31st March, 1944	Shell	Sunk
M.T.B.695	5/6th March, 1944	Shell	4 months including collision repairs	M.T.B.245	1st April, 1944	Shell	1 week
M.T.B.266	9/10th March, 1944	Shell	Nil	M.T.B.658	5/6th April, 1944	Shell	Nil
M.T.B.617	10th March, 1944	Shell	Nil	M.T.B.315	17th April, 1944	Shell	Nil
M.T.B.705	14th March, 1944	Shell	2 months	M.T.B.671	23/24th April, 1944	Shell	Sunk
M.T.B.724	14th March, 1944	Shell	Nil	M.T.B.227	8th May, 1944	Shell	Nil



## COLUMN 1

## COLUMN 2

SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.458	11th May, 1944	Shell	1 day	M.T.B.723	10th June, 1944	Shell	Nil
M.T.B.438	11th May, 1944	Shell	1 month	M.T.B.681	10th June, 1944	Shell	Sunk
M.T.B.456	11th May, 1944	Shell	12 days	M.T.B.712	10/11th June, 1944	Shell	2 weeks
M.T.B.467	11th May, 1944	Shell	5 days	M.T.B.98	11th June, 1944	Shell	Nil
M.T.B.455	11th May, 1944	Shell	4 days	M.T.B.668	13th June, 1944	Mine	3 months
M.T.B.450	12th May, 1944	Shell	Nil	M.T.B.655	18th June, 1944	Shell	2½ months
M.T.B.715	12th May, 1944	Shell	16 days including refit	M.T.B.748	23rd June, 1944	Shell	Nil
M.T.B.453	12th May, 1944	Shell	7 weeks	M.T.B.743	23rd June, 1944	Shell	Nil
M.T.B.454	12th May, 1944	Shell	Nil	M.T.B.745	23rd June, 1944	Shell	1 week
M.T.B.745	23rd May, 1944	Shell	2 weeks	M.T.B.444	25th June, 1944	Shell	Nil
M.T.B.726	23rd May, 1944	Shell	3 days	M.T.B.440	25th June, 1944	Shell	1 month
M.T.B.420	28th May, 1944	Shell	Nil	M.T.B.441	25th June, 1944	Shell	Nil
M.T.B.672	29th May, 1944	Mine	Not repaired	M.T.B.640	26/27th June, 1944	Mine	Sunk
M.T.B.84	30th May, 1944	Machine gun	Nil	M.T.B.698	27th June, 1944	Shell	Nil
M.T.B.694	7th June, 1944	Bomb	Nil	M.T.B.716	27th June, 1944	Shell	3 weeks
M.T.B.647	9/10th June, 1944	Shell	Nil	M.T.B.677	27th June, 1944	Shell	Nil
				M.T.B.710	27th June, 1944	Shell	Nil



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.673	27th June, 1944	Shell	11 days	M.T.B.463 (H.M.C.S.)	8th July, 1944	Mine	Sunk
M.T.B.223	June, 1944	Shell	3 weeks	M.T.B.93	9th July, 1944	Shell	Nil
M.T.B.460 (H.M.C.S.)	3rd July, 1944	Mine	Sunk	M.T.B.434	9th July, 1944	Shell	Sunk
M.T.B.748	4th July, 1944	Shell	5 weeks	M.T.B.245	9th July, 1944	Shell	1 month
M.T.B.469	4th July, 1944	Shell	Nil	M.T.B.455	14th July, 1944	Shell	3 weeks
M.T.B.743	4th July, 1944	Shell	8 days	M.T.B.458	14th July, 1944	Shell	Nil
M.T.B.735	4th July, 1944	Shell	Nil	M.T.B.468	14th July, 1944	Shell	Nil
M.T.B.632	4/5th July, 1944	Shell	4 months	M.T.B.467	14th July, 1944	Shell	1 month
M.T.B.650	4/5th July, 1944	Shell	4 months	M.T.B.469	14th July, 1944	Shell	2 months
M.T.B.723	5th July, 1944	Shell	2 weeks	M.T.B.457	14th July, 1944	Shell	Nil
M.T.B.684	5th July, 1944	Shell	2 weeks	M.T.B.470	14th July, 1944	Shell	Nil
M.T.B.687	5th July, 1944	Shell	Nil	M.T.B.738	14/15th July, 1944	Shell	2 weeks
M.T.B.666	5th July, 1944	Shell	Sunk	M.T.B.350	17th July, 1944	Shell	1 month
M.T.B.621	6/7th July, 1944	Shell	Nil	M.T.B.459	17th July, 1944	Shell	3 months
M.T.B.617	7th July, 1944	Shell	3 months	M.T.B.649	17/18th July, 1944	Shell	Nil
M.T.B.447	8th July, 1944	Shell	Nil	M.T.B.710	18th July, 1944	Shell	Nil
M.T.B.451	8th July, 1944	Shell	1 month				



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B. 354	18th July, 1944	Shell	9 weeks, including collision repairs	M.T.B. 229	27th July, 1944	Shell	Nil
M.T.B. 698	18th July, 1944	Shell	Nil	M.T.B. 675	2nd August, 1944	Shell	4 days
M.T.B. 361	18th July, 1944	Shell	6 weeks including collision repairs	M.T.B. 608	3rd August, 1944	Shell	9 days
M.T.B. 700	18th July, 1944	Shell	Nil	M.T.B. 677	6th August, 1944	Shell	5 weeks
M.T.B. 94	19th July, 1944	Shell	Nil	M.T.B. 717	6th August, 1944	Shell	2½ months
M.T.B. 687	20th July, 1944	Shell	6 weeks	M.T.B. 720	6th August, 1944	Shell	Nil
M.T.B. 683	20th July, 1944	Shell	3 weeks	M.T.B. 716	6th August, 1944	Shell	6 weeks
M.T.B. 234	21st July, 1944	Shell	3 weeks	M.T.B. 728	16th August, 1944	Mine	2 months
M.T.B. 232	21st July, 1944	Shell	Nil	M.T.B. 720	17th August, 1944	Mine	2½ months
M.T.B. 474	23rd July, 1944	Shell	Nil	M.T.B. 769	25th August, 1944	Shell	5 weeks
M.T.B. 480	23rd July, 1944	Shell	Nil	M.T.B. 457	26/27th August, 1944	Shell	1 month
M.T.B. 372	23/24th July, 1944	Shell	Sunk	M.T.B. 468	26/27th August, 1944	Shell	Nil
M.T.B. 256	25/26th July, 1944	Shell	Nil	M.T.B. 232	15th September, 1944	Shell	Nil
M.T.B. 651	25/26th July, 1944	Shell	Nil	M.T.B. 83	15th September, 1944	Shell	Nil
M.T.B. 430	26/27th July, 1944	Rammed E-boat	Sunk	M.T.B. 724	18/19th September, 1944	Shell	Nil
				M.T.B. 728	18/19th September, 1944	Shell	1 month
				M.T.B. 347	1st October, 1944	Shell	Sunk
				M.T.B. 360	1st October, 1944	Shell	Sunk



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.T.B.350	1st October, 1944	Shell	Nil	M.T.B.633	3rd December, 1944	Shell	Nil
M.T.B.351	1st October, 1944	Shell	Nil	M.T.B.782	29th December, 1944	Mine	Sunk
M.T.B.467	8/9th October, 1944	Shell	3 months	M.T.B.446	22/23rd January, 1945	Shell	Nil
M.T.B.476	10/11th October, 1944	Shell	2 weeks	M.T.B.495	22/23rd January, 1945	Shell	1 month
M.T.B.638	11/12th October, 1944	Shell	Nil	M.T.B.660	13/14th February, 1945	Shell	Nil
M.T.B.634	11/12th October, 1944	Shell	Nil	M.T.B.634	13/14th February, 1945	Shell	Nil
M.T.B.234	26/27th October, 1944	Shell	Nil	M.T.B.710	13/14th February, 1945	Shell	Nil
M.T.B.480	1st November, 1944	Shell	Nil	M.T.B.655	16/17th February, 1945	Shell	Nil
M.T.B.471	1st November, 1944	Shell	1 month	M.T.B.478	28th February, - 1st March, 1945	Shell	Nil
M.T.B.476	1st November, 1944	Shell	3 days	M.T.B.703	6/7th March, 1945	Shell	Nil
M.T.B.467	2nd November, 1944	Shell	9 weeks	M.T.B.431	9/10th March, 1945	Shell	1 month
M.T.B.464	2nd November, 1944	Shell	Nil	M.T.B.739	9/10th March, 1945	Shell	Nil
M.T.B.486	2nd November, 1944	Shell	Nil	M.T.B.726	9/10th March, 1945	Shell	Nil
M.T.B.485	2nd November, 1944	Shell	Nil	M.T.B.475	9/10th March, 1945	Shell	Nil
M.T.B.491	2nd November, 1944	Shell	Nil	M.T.B.699	13th March, 1945	Mine	Nil
M.T.B.627	13/14th November, 1944	Shell	Nil	M.T.B.710	16/17th March, 1945	Mine	Nil
M.T.B.742	15/16th November, 1944	Shell	Nil	M.T.B.743	17/18th March, 1945	Shell	Nil







COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.G.B.40	4th November, 1940	Mine (Contact)	7 months	M.G.B.52	9th September, 1941	Shell	Nil
M.A/S.B.4	4th November, 1940	Mine	6 days	M.G.B.43	9th September, 1941	Shell	5 weeks
M.G.B.50 (Ex FRENCH)	25th December, 1940	Mine	Nil	M.G.B.8	18th September, 1941	Shell	Nil
M.A/S.B.12	6th February, 1941	Mine	Sunk	M.G.B.43	3/4th November, 1941	Shell	Nil
M.A/S.B.3	28th February, 1941	Mine (Non-contact)	Beached	M.G.B.42	3/4th November, 1941	Shell	4 months
M.G.B.61	10th March, 1941	Bomb (near miss) Air raid on Portsmouth	3 weeks	M.G.B.317	16th November, 1941	Shell	Nil
M.G.B.98	11th March, 1941	Bomb Air raid on Portsmouth	Sunk	M.G.B.312	16th November, 1941	Shell	Nil
M.G.B.42	17th March, 1941	Mine (Contact)	4 months	M.G.B.314	16th November, 1941	Shell	Nil
M.G.B.61	29th April, 1941	Machine gun and cannon	Nil	M.G.B.89	November, 1941	Shell	4 months (approx.)
M.G.B.71	17th June, 1941	Mine (Non-contact)	2 months	M.G.B.324	3rd December, 1941	Shell	Nil
M.G.B.63	25th July, 1941	Bomb (near miss)	Nil	M.G.B.328	3rd December, 1941	Shell	Nil
M.G.B.70	22nd August, 1941	Bomb (near miss) and machine gun	Nil	M.G.B.65	20th December, 1941	Machine gun	Nil
				M.G.B.67	20th December, 1941	Machine gun	Nil
				M.G.B.59	12th February, 1942	Shell	8 months
				M.G.B.91 D.No.C4B/R101	15th March, 1942	Shell	6 weeks
				M.G.B.88 Ex. U.S.A.	15th March, 1942	Shell	1 month
				M.G.B.87	15th March, 1942	Shell	Nil



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.G.B.64	21/22nd April, 1942	Shell	6 weeks	M.A/S.B.31	25th July, 1942	Machine gun	Nil
M.A/S.B.31	23rd April, 1942	Bomb	2 months	S.G.B.3 (Now GREY SEAL)	26th July, 1942	Shell	7 weeks
M.G.B.48	28th April, 1942	Bomb	Indeterminate Damaged whilst undergoing repairs	S.G.B.6 (Now GREY SHARK)	26th July, 1942	Shell	4 months
M.G.B.89	April, 1942	Shell	7 weeks approx.	M.G.B.67	29th July, 1942	Shell	3 months
M.G.B.9	13th May, 1942	Shell	Nil	M.G.B.61	29th July, 1942	Shell	Nil
M.G.B.13	13th May, 1942	Shell	Nil	M.G.B.332	31st July, 1942	Shell	1 month
M.G.B.41	15th June, 1942	Shell	Nil	M.G.B.335	31st July, 1942	Shell	8 days
S.G.B.7	19th June, 1942	Shell	Sunk	M.G.B.327	31st July, 1942	Shell	1 month
M.G.B.83	June, 1942	Shell	1 month	M.G.B.320	31st July, 1942	Shell	15 weeks including refit
S.G.B.4 (Now GREY FOX)	10th July, 1942	Rammed by R-boat	10 weeks	M.G.B.315	31st July, 1942	Shell	Nil
M.G.B.77	14/15th July, 1942	Shell	3 weeks	M.G.B.323	31st July, 1942	Shell	Nil
M.G.B.601 D.N.C.4B/R117	21st July, 1942	Shell	Sunk	M.G.B.321	31st July, 1942	Shell	6 weeks
M.G.B.322	21st July, 1942	Shell	5 weeks	M.G.B.20	July, 1942	Shell	3 months approx.
M.G.B.328	20/21st July, 1942	Shell	Sunk	M.G.B.41	6th August, 1942	Shell	Nil



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.G.B.324	6th August, 1942	Shell	1 month	M.G.B.82	10/11th September, 1942	Machine gun	7 weeks
M.G.B. S.3	6th August, 1942	Shell	18 days	M.G.B.84	10/11th September, 1942	Machine gun	7 weeks
M.G.B.330	6th August, 1942	Shell	Nil	M.G.B. 91	10/11th September, 1942	Machine gun	7 weeks
M.G.B.331	6th August, 1942	Shell	Nil	M.G.B.10	11th September, 1942	Bomb	Nil
M.G.B.13	14th August, 1942	Shell	4 days	M.G.B.325	11th September, 1942	Shell	10 days
M.G.B.6	16th August, 1942	Shell	Nil	M.G.B.327	11th September, 1942	Shell	Nil
M.G.B.10	16th August, 1942	Shell	2 weeks	M.G.B.334	11th September, 1942	Shell	Nil
M.G.B.330	16th August, 1942	Shell	14 weeks	M.G.B.18	29th September, 1942	Shell	Sunk
M.G.B.331	16th August, 1942	Shell	Nil	M.G.B.86	30th September, 1942	Shell	Nil
M.G.B.609	16th August, 1942	Shell	15 weeks	M.G.B.21	30th September, 1942	Shell	16 days
S.G.B.5 (Now GREY OWL)	21st August, 1942	Shell	6 months	M.G.B.82	30th September, 1942	Shell	1 month
M.G.B.6	24th August, 1942	Shell	Nil	M.G.B.610 (Now M.T.B.610)	30th September, 1942	Shell	9 weeks
M.G.B.7	24th August, 1942	Shell	Nil	M.G.B.606 (Now M.T.B.606)	30th September, 1942	Shell	1 month
M.G.B.61	24/25th August, 1942	Shell	Nil	M.G.B.605 (Now M.T.B.605)	30th September, 1942	Shell	9 days
M.G.B.65	24/25th August, 1942	Shell	Nil	M.G.B.78	2/3rd October, 1942	Shell	Sunk
M.G.B.335	10/11th September, 1942	Shell	Sunk	M.G.B.75 (Now M.T.B.413)	5/6th October, 1942	Shell	6 weeks
M.G.B.21	10/11th September, 1942	Machine gun	Nil				



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.G.B.76	6th October, 1942	Shell	Sunk	M.G.B.321	28/29th March, 1943	Shell	15 weeks
M.G.B.317	29th October, 1942	Shell	6 weeks	M.G.B.333	29th March, 1943	Shell	2 weeks
M.G.B.19	6th November, 1942	Bomb	Wrecked on Slipway	M.G.B.110	5th April, 1943	Shell	7 weeks
M.G.B.109 D.N.C.4B/R245	7th February, 1943	Mine	Wrecked beyond repair	M.G.B.113 (Now M.T.B.432)	5th April, 1943	Shell	4 months
M.G.B.81 (Now M.T.B.416)	28th February, 1943	Shell	Nil	M.G.B.603 (Now M.T.B.603)	12th April, 1943	Shell	Nil
M.G.B.77 (Now M.T.B.414)	28th February, 1943	Shell	9 weeks	M.G.B.606 (Now M.T.B.606)	12th April, 1943	Shell	Nil
M.G.B.111 (Now M.T.B.430)	28th February, 1943	Shell	Nil	M.G.B.112 (Now M.T.B.431)	13th April, 1943	Shell	Nil
M.G.B.79	28th February, 1943	Shell	Sunk	GREY SHARK	15/16th April, 1943	Shell	Nil
M.G.B.110	12th March, 1943	Shell	10 weeks	M.G.B.608 (Now M.T.B.608)	15/16th April, 1943	Shell	5 months including collision repairs)
M.G.B.113 (Now M.T.B.432)	12th March, 1943	Shell	Nil	M.G.B.603 (Now M.T.B.603)	30th April, 1943	Shell	Nil
M.G.B.114 (Now M.T.B.433)	12th March, 1943	Cannon fire	Nil	M.G.B.67	30th April, 1943	Shell	Nil
M.G.B.606 (Now M.T.B.606)	27/28th March, 1943	Shell	Nil	M.G.B.58	30th April, 1943	Shell	Nil
M.T.B.607 (Now M.T.B.607)	27/28th March, 1943	Shell	Nil	M.G.B.610 (Now M.T.B.610)	1st May, 1943	Shell	2 days
M.G.B.603 (Now M.T.B.603)	28th March, 1943	Shell	Nil	M.G.B.605 (Now M.T.B.605)	1st May, 1943	Shell	15 days



## COLUMN 1

## COLUMN 2

SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.G.B.657	4th May, 1943	Shell	Nil	M.G.B.122 (Now M.T.B.441)	22/23rd July, 1943	Shell	9 days
M.G.B.646	4th May, 1943	Bomb	Nil	M.G.B.607 (Now M.T.B.607)	25th July, 1943	Shell	26 days including A's & A's
M.G.B.116 (Now M.T.B.435)	28th May, 1943	Shell	Nil	M.G.B.612 (Now M.T.B.612)	25th July, 1943	Shell	Nil
M.G.B.110	29th May, 1943	Shell	Sunk	GREY GOOSE D.N.C.4B/R285	27th July, 1943	Shell	11 days
M.G.B.614 (Now M.T.B.614)	29th May, 1943	Shell	2 months	GREY WOLF D.N.C.4B/R285	27th July, 1943	Shell	10 weeks including collision repairs
M.G.B.108 (Now M.T.B.418)	29th May, 1943	Shell	9 days	GREY SHARK D.N.C.4B/R285	27th July, 1943	Shell	5 weeks
M.G.B.118 (Now M.T.B.437)	29th May, 1943	Shell	9 days	GREY SEAL D.N.C.4B/R285	27th July, 1943	Shell	1 month including collision repairs
M.G.B.108 (Now M.T.B.418)	8th June, 1943	Shell	Nil	M.G.B.611 (Now M.T.B.611)	28th July, 1943	Shell	3 weeks
M.G.B.114 (Now M.T.B.433)	8th June, 1943	Shell	Nil	M.G.B.616 (Now M.T.B.616)	28th July, 1943	Shell	1 month
M.G.B.648	14th June, 1943	Bomb	Sunk	M.G.B.605 (Now M.T.B.605)	4th August, 1943	Shell	11 weeks, including collision repairs
M.G.B.643	24/25th June, 1943	Mine	Nil	M.G.B.613 (Now M.T.B.613)	17th August, 1943	Shell	1 month
M.G.B.644	24/25th June, 1943	Mine	Sunk				
M.G.B.641	14/15th July, 1943	Shell	Sunk				
M.G.B.119 (Now M.T.B.438)	22/23rd July, 1943	Shell	1 month				
M.G.B.610 (Now M.T.B.610)	22/23rd July, 1943	Shell	Nil				



COLUMN 1				COLUMN 2			
SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
GREY GOOSE	4th September, 1943	Shell	2 months	M.G.B.662	7/8th August, 1944	Shell	Nil
GREY OWL	4th September, 1943	Shell	Nil	M.G.B.313	16th August, 1944	Mine or Torpedo	Sunk
GREY SEAL	4th September, 1943	Shell	Nil	M.G.B.657	17/18th August, 1944	Shell	Nil
GREY FOX	4th September, 1943	Shell	Nil	M.G.B.658	17/18th August, 1944	Shell	Nil
GREY SEAL	22nd September, 1943	Shell	Nil	M.G.B.319	August, 1944	Mine	2 weeks
GREY FOX	27th September, 1943	Shell	Nil	M.G.B.657	12th September, 1944	Mine	Not repaired
M.G.B.658	14/15th October, 1943	Shell	Nil	M.G.B.642	8/9th October, 1944	Shell	Nil
M.G.B.315	25th October, 1943	Shell	Nil	M.G.B.663	10th October, 1944	Mine	Sunk
M.G.B.21	20th March, 1944	Shell	Nil	M.G.B.662	11/12th October, 1944	Shell	Nil
M.G.B.645 D.N.C.4B/R325	2nd May, 1944	Shell	3 $\frac{3}{4}$ months	M.G.B.647	10th April, 1945	Shell	Nil
M.G.B.661	18/19th May, 1944	Shell	Nil	M.G.B.2002	12th May, 1945	Mine	Sunk
GREY SEAL	24/25th May, 1944	Shell	Nil				
GREY OWL	24/25th May, 1944	Shell	6 months				
M.G.B.674	30th May, 1944	Machine gun	Nil				
M.G.B.674	9/10th June, 1944	Shell	Nil				
M.G.B.17	11th June, 1944	Mine	Sunk				
M.G.B.658	18th June, 1944	Shell	Nil				
M.G.B.326	27th June, 1944	Mine	Sunk				



## COLUMN 1

## COLUMN 2

SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
M.M.S.18	11th May, 1941	Bomb (Near Miss)	Nil	M.M.S.68	14th July, 1942	Mine	6 weeks
M.M.S.1	11th May, 1941	Bomb (Near Miss) Air Raid on London	12 days	M.M.S.64	12th October, 1942	Cannon and Machine gun	Nil
M.M.S.16	12th June, 1941	Mine	1 month	M.M.S.89	12th May, 1943	Mine	Sunk
M.M.S.2	June, 1941	Mine	1 month	B.Y.M.S.2019	19th September, 1943	Mine	Sunk
M.M.S.3	10th July, 1941	Mine	2 months	M.M.S.70	24th September, 1943	Mine	Sunk
M.M.S.39	7th August, 1941	Mine	Sunk	M.M.S.287 D.N.C.4B/R271	17th October, 1943	Shell	7 weeks
M.M.S.40	1st October, 1941	Mine	3 weeks	B.Y.M.S.2073	11th November, 1943	Bomb	Nil
M.M.S.9 D.N.C.4B/R198	26th October, 1941	Mine	6 months	M.M.S.3	29th November, 1943	Mine	Not to be repaired
M.M.S.44	13th November, 1941	Mine	3 weeks	M.M.S.101	11th June, 1944	Mine	Nil
M.M.S.51	4th March, 1942	Shell	Scuttled	B.Y.M.S.2003	13th June, 1944	Mine	Nil
M.M.S.136	23rd April, 1942	Mine	1 month	M.M.S.45	13th June, 1944	Shell	Nil
M.M.S.173	6th May, 1942	Bomb	Nil	M.M.S.229	13th June, 1944	Mine	Sunk
M.M.S.56	15th June, 1942	Mine	10 weeks	M.M.S.113	14th June, 1944	Mine	3½ months
M.M.S.82	15th June, 1942	Mine	Nil	M.M.S.279	17th June, 1944	Mine	Nil
M.M.S.59	15th June, 1942	Mine	1 month	M.M.S.7	18th June, 1944	Bomb	6 weeks
M.M.S.6	19th June, 1942	Mine	10½ months	M.M.S.8	24th June, 1944	Mine	Sunk
M.M.S.61	9/10th July, 1942	Mine	11 weeks including refit	M.M.S.40	27th June, 1944	Mine	Sunk, later refloated 4½ months
				M.M.S.1019	2nd July, 1944	Mine	Sunk



## COLUMN 1

## COLUMN 2

SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION	SHIP	DATE	NATURE OF ATTACK	TIME OUT OF ACTION
B.Y.M.S.2069	2nd July, 1944	Mine	5 months approx	B.Y.M.S.2076	November, 1944	Mine	2½ months approx.
M.M.S.55	10th July, 1944	Mine	Sunk	M.M.S.257	11th December, 1944	Mine	Sunk
B.Y.M.S.2079	15/16th July, 1944	Mine	6 weeks	B.Y.M.S.2234	17th December, 1944	Mine	Nil
M.M.S.181	22nd July, 1944	Mine	6 months	M.M.S.248	30th January, 1945	Mine	Sunk
M.M.S.279	5th August, 1944	Mine	Nil	M.M.S.68	4th February, 1945	Mine	Sunk
B.Y.M.S.2022	16th August, 1944	Mine	Sunk	B.Y.M.S.2157	March 1945	Mine	3 months approx
M.M.S.117	1st September, 1944	Mine	Sunk	B.Y.M.S.2053	28th April, 1945	Mine	Sunk
M.M.S.87	3rd September, 1944	Mine	Nil	B.Y.M.S.2070	3rd June, 1945	Mine	Nil
M.M.S.49	5th September, 1944	Mine	Nil	M.M.S.168	25th June, 1945	Mine	Sunk
M.M.S.115	1st October, 1944	Mine	2½ months including refit	B.Y.M.S.2071	3rd August, 1945	Mine	Nil
B.Y.M.S.2154	3rd October, 1944	Mine	Nil	B.Y.M.S.2026	August, 1945	Mine	Nil
B.Y.M.S.2255	5th October, 1944	Mine	Sunk				
B.Y.M.S.2030	8th October, 1944	Mine	Sunk				
B.Y.M.S.2011	11th October, 1944	Mine	Nil				
M.M.S.170	12th October, 1944	Mine	Sunk				
B.Y.M.S.2077	25th October, 1944	Mine	Sunk				
M.M.S.175	11th November, 1944	Mine	10 weeks				
M.M.S.101	30th November, 1944	Mine	Sunk				



GENERAL ALPHABETICAL INDEX OF MAJOR H.M. WAR VESSELS DAMAGED OR SUNK BY

ENEMY ACTION DURING THE PERIOD SEPTEMBER 1939 - SEPTEMBER 1945

NOTES:-

Column 1 includes Machine Gun Attack

Column 2 includes Suicide Planes

Column 4 includes Human Torpedoes and Explosive Motor Boats

∕ Denotes Ship Sunk

Ship	Type	1. Shell	2. Bomb	Attack 3. Mine	4. Torpedo	5. Various
ABDIEL	Fast Minelayer			411 ∕		
ABELIA	Corvette			355		
ABERCROMBIE	Monitor			111, 112		
ABINGDON	Minesweeper		304 ∕	301		
ACASTA	Destroyer	136 ∕				
ACHATES	"	226 ∕				
ACHERON	"		145	154 ∕		
ACHILLES	Cruiser	40	90			
ACUTE	Minesweeper				308	
ADVENTURE	Cruiser/Minelayer		61	38, 57		
AFFLECK	Frigate				288	
AFRIDI	Destroyer		125 ∕			
AIREDALE	"		205 ∕			
AJAX	Cruiser	40, 53	58, 63, 65, 90			
ALARM	Minesweeper		308, 308			
ALBATROSS	Seaplane Tender	412			413	
ALBERNIE	Corvette	356		357? ∕	357? ∕	
ALBRIGHTON	Destroyer	201, 209, 222, 231, 262	209?			
ALBURY	Minesweeper		302			
ALCANTARA	Armed Merchant Cruiser	394				
ALDENHAM	Destroyer			268 ∕		
ALECTO	Depot Ship		401			
ALGERINE	Minesweeper				307 ∕	
AMAZON	Destroyer	199				
AMBUSCADE	"	138				
ANDANIA	Armed Merchant Cruiser				393 ∕	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
ANEMONE	Corvette		348			
ANTARES	Minesweeper			327		
ANTELOPE	Destroyer					151
ANTHONY	"		134, 159, 166			
ARBUTUS	Corvette				351 /	
ARCTURUS	Minesweeper			329		
ARDENT	Destroyer	137 /				
ARDROSSAN	Minesweeper			313		
ARETHUSA	Cruiser		70, 83, 102, 103		88	
ARGONAUT	"	104			89	
ARGUS	Aircraft Carrier		28			
ARIES	Minesweeper			330		
ARK ROYAL	Aircraft Carrier				25 /	
ARMIDALE	Corvette				353 /	
ARROW	Destroyer	123		174		
ARUNTA	"		269			
ASHANTI	"	255	124			
ASPHODEL	Corvette				356 /	
ASSINIBOINE	Destroyer	262				
ASTER	Corvette		349			227
ASTURIAS	Armed Merchant Cruiser				399	
ATHABASKAN	Destroyer	255	238		255 /	
ATHERSTONE	"		147			
AUCKLAND	Sloop		333, 339 /			
AUDACITY	Aircraft Carrier				26 /	
AURICULA	Corvette			352 /		
AURORA	Cruiser	87, 104	37, 45, 98	70		
AUSTRALIA	"	52	105, 105, 106, 106, 107			
AVENGER	Aircraft Carrier				28 /	
AVONVALE	Destroyer		193		227	
AYLMER	Frigate					290



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
BADSWORTH	Destroyer			206, 231		
BARHAM	Battleship	7	12		2, 14 /	
BASILISK	Destroyer		135 /			
BEAGLE	"	198	134, 138, 140, 141, 146			
BEAUFORT	"		195			
BEDOVIN	"	119, 204			204 /	
BELFAST	Cruiser			38		
BELMONT	Destroyer				187 /	
BELVOIR	"		244			
BENGAL	Minesweeper	307				
BERKELEY	Destroyer		209 /	154		
BERWICK	Cruiser	54, 56	43			
BEVERLEY	Destroyer				229 /	
BICESTER	"		247			
BICKERTON	Frigate				283 /	
BIDEFORD	Sloop		334, 343			
BIRMINGHAM	Cruiser		83		98	
BITTERN	Sloop		334 /			
BLACKPOOL	Minesweeper	300, 318				
BLACK SWAN	Sloop		333, 339	336		
BLACKWOOD	Frigate				281 /	
BLANCHE	Destroyer			115 /		
BLANKNEY	"		207			
BLEAN	"				222 /	
BLEASDALE	"	209 ?	209 ?	212		
BLENCATHRA	"	191	207		261	
BLUEBELL	Corvette				359 /	
BLYTH	Minesweeper		306	316		
BOADICEA	Destroyer	216	137		257 /	
BONAVENTURE	Cruiser	56	58		59 /	
BOREAS	Destroyer		141, 156			
BOSTON	Minesweeper		311			
BRAMBLE	"	300, 308 /	300			
BRAMHAM	Destroyer		218			
BRAZEN	"		141 /			
BRIDPORT	Minesweeper	318				
BRILLIANT	Destroyer		142			
BRITOMART	Minesweeper		300, 303			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
BROADWATER	Destroyer				180 $\neq$	
BROADWAY	"	166				
BROCKLESBY	"	209, 221				
BROKE	"	216 $\neq$				
BULLDOG	"	199	137, 145			
BULLEN	Frigate				287 $\neq$	
CACHALOT	Submarine					371 $\neq$
CADMUS	Minesweeper		311, 313			308
CAIRO	Cruiser	83	45, 46		85 $\neq$	
CALCUTTA	"		47, 67 $\neq$			
CALIFORNIA	Armed Merchant Cruiser		398			
CALPE	Destroyer		209			
CALYPSO	Cruiser				47 $\neq$	
CAMERON	Destroyer		153			
CANBERRA	Cruiser	84 $\neq$				
CAPEL	Frigate				288 $\neq$	
CAPETOWN	Cruiser				60	
CARINTHIA	Armed Merchant Cruiser				393	
CARLISLE	Cruiser		64, 96			
CARNARVON CASTLE	Armed Merchant Cruiser	397			337 $\neq$	
CASSANDRA	Destroyer				268	
CASTLETON	"		156			
CATO	Minesweeper				319 $\neq$	
CATTISTOCK	Destroyer	263	152, 158			
CENTURION	Demilitarised Battlehip Minesweeper		406			
CHAMOIS	Sloop			320		
CHANTICLEER	Corvette				344	
CHARLOTTETOWN	Corvette				352 $\neq$	
CHARYBDIS	Cruiser				97 $\neq$	
CHEBOGUE	Frigate				284	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
CHESHIRE	Armed Merchant Cruiser				395, 399	
CICALA	River Gunboat	404, 404				
CIRCE	Minesweeper			315		
CLACTON	"			314 /		
CLAYOQUOT	"				325 /	
CLEOPATRA	Cruiser	75	72, 86		92	
CLEVELAND	Destroyer		241			
CLINTON	Minesweeper			324		
CODRINGTON	Destroyer		143			
COMORIN	Armed Merchant Cruiser		398 /			
CORFIELD	Mine Destructor Ship		402, 403 /			
CORNWALL	Cruiser	61	79 /			
CORNWALLIS	Sloop				340	
COSBY	Frigate				291	
COSSACK	Destroyer	122, 150, 168		157	181 /	
COTSWOLD	"			198		
COURAGEOUS	Aircraft Carrier				21 /	
COVENTRY	Cruiser		41, 46, 62, 87 /		55	
COWDRAY	Destroyer		215			
CRICKET	River Gunboat		402			
CROCUS	Corvette					352
CROMARTY	Minesweeper			312 /		
CROMER	"			307 /		
CUCKMERE	Frigate				278	
CULVER	Ex U.S. Cutter				405 /	
CUMBERLAND	Cruiser	52				
CURACOA	"		45			
CURLEW	"		46 /			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
DAINTY	Destroyer		157 /			
DAKINS	Frigate			287		
DARING	Destroyer				117 /	
DECOY	"		152, 156, 170, 176, 180			
DEFENDER	"		176 /			
DELHI	Cruiser		89	108		
DELIGHT	Destroyer		143 /			
DELORAINÉ	Minesweeper		303			
DENBIGH CASTLE	Corvette				358 /	
DERWENT	Destroyer				229	
DEVONSHIRE	Cruiser		43			
DIADEM	"	107				
DIAMOND	Destroyer		138, 161 /			
DIANTHUS	Corvette					352
DIDO	Cruiser		67			
DORSETSHIRE	"		78 /			
DRAGON	"	51				
DRAGONFLY	River Gunboat		405 /			
DUFF	Frigate			286		
DUKE OF YORK	Battleship	19				
DULVERTON	Destroyer		245 /			
DUNDALK	Minesweeper			298 /		
DUNDEE	Sloop				335 /	
DUNEDIN	Cruiser				69 /	
DUNOON	Minesweeper			295 /		
DUNVEGAN CASTLE	Armed Merchant Cruiser				394 /	
DURBAN	Cruiser		72			
EAGLE	Aircraft Carrier				26 /	
EASTON	Destroyer					237
ECLIPSE	"	195	119	244 /		
EDINBURGH	Cruiser		37		80 /	
EGRET	Sloop		336, 344 /			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
EKINS	Frigate			292		
ELECTRA	Destroyer	190 /				
ELGIN	Minesweeper			298, 316		
EMERALD	Cruiser	101				
ENCHANTRESS	Sloop					342
ENCOUNTER	Destroyer	190 /	162, 163, 166			
ENDEAVOUR	Survey Ship		405			
ENTERPRISE	Cruiser	100				
EREBUS	Monitor	112, 113				
ERICA	Corvette			354 /		
ERIDGE	Destroyer				210	
ERNE	Sloop		338			
ESCORT	Destroyer				139 /	
ESK	"		136, 145	146 /		
ESKIMO	"	259	235		121	
ESPERANCE BAY	Armed Merchant Cruiser		393			
ESQUIMALT	Minesweeper				328 /	
EXETER	Cruiser	39, 73, 74	73		74	
EXMOOR	"				157 /	
EXMOUTH	"				116 /	
EXPRESS	Destroyer		135	146		
FAME	Destroyer	128	130, 138, 139			213
FANTOME	Minesweeper			310		
FAREHAM	"		304			
FARNDALE	Destroyer	264	187			
FEARLESS	"				177 /	
FELIXSTOWE	Minesweeper			314 /		
FERMOY	"		301, 301			
FERNIE	Destroyer	191, 209				
FIJI	Cruiser		63 /		49	
FIREDRAKE	Destroyer		130, 138, 177		223 /	
FITZROY	Minesweeper			299, 304 /		
FLAMINGO	Sloop		339, 340			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
FLEETWOOD	Sloop		333			
FLEUR DE LYS	Corvette				350 /	
FORESIGHT	Destroyer	148, 200	154		208 /	
FORESTER	"	121, 201, 260	160			
FORFAR	Armed Merchant Cruiser				397 /	
FORMIDABLE	Aircraft Carrier		24, 34, 36			
FORTUNE	Destroyer		165			
FOXGLOVE	Sloop		334			
FRANKLIN	Survey Ship		401, 402, 402			
FRIENDSHIP	Minesweeper			318		
FROBISHER	Cruiser				104	
FROLIC	Minesweeper			327		
FURIOUS	Aircraft Carrier		21, 23, 24			
FURY	Destroyer			258		
GALATEA	Cruiser			48, 49	69 /	
GALLANT	Destroyer		133, 196 /	155		
GANNET	River Gunboat		401			
GARTH	Destroyer	209	177, 209			
GIPSY	"			115 /		
GLADIOLUS	Corvette				351 /	
GLAISDALE	Destroyer	234				
GLASGOW	Cruiser	99, 103	42		55	
GLEANER	Minesweeper			321		
GLORIOUS	Aircraft Carrier	21 /				
GLOUCESTER	Cruiser		48, 57, 61, 65 /			
GLOWWORM	Destroyer	117				
GLOXINIA	Corvette			349		
GNAT	River Gunboat				403	
GOATHLAND	Destroyer	231		260		
GOODALL	Frigate				293 /	
GOODSON	"				281	
GORGON	Minesweeper			320		



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
GOSSAMER	Minesweeper		305 /			
GOULD	Frigate				279 /	
GRAPTON	Destroyer				132 /	
GRAMPUS	Submarine					364 /
GRASSHOPPER	River Gunboat		405			
GRENADE	Destroyer		132 /			
GRENVILLE (1)	"			116 /		
GRENVILLE (2)	"	242				
GREYHOUND	"	131	123, 133, 161			
			167 /			
GRIFFIN	"		140, 160			
GRIMSBY	Sloop		338 /			
GROVE	Destroyer				203 /	
GUILLEMOT	Corvette	358	347			
GURKHA (1)	Destroyer		117 /			
GURKHA (2)	"				186 /	
GUYSBOROUGH	Minesweeper				328 /	
HADA	Destroyer	255, 261				
HALCYON	Minesweeper			298		
HALSTEAD	Frigate				280	
HAMBLEDON	Destroyer			149	217	
HARDY (1)	"	118				
HARDY (2)	"				252 /	
HARRIER	Minesweeper		296			
HARTLAND	Ex U.S. Cutter	407 /				
HARVESTER	Destroyer				228 /	228 /
HASTY	"				205 /	
HAVANT	"		135 /			
HAVOCK	"	118, 193	140, 167, 193,			
			195			
HAYARD	Minesweeper			307		
HEBE	"	305	297	305, 313 /		
HECLA	Destroyer Depot Ship			406	408 /	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
HECTOR	Armed Merchant Cruiser		398 /			
HEREWARD	Destroyer		170 /			
HERMES	Aircraft Carrier		26 /			
HERMIONE	Cruiser				84 /	68
HERO	Destroyer		168, 181			
HESPERUS	"		126			185, 224
HEYTHROP	"				192 /	
HOBART	Cruiser		73, 73		92	
HOLCOMBE	Destroyer				248 /	
HOLDERNESS	"			148, 176, 248		
HOLLYHOCK	Corvette		352 /			
HONEYSUCKLE	Corvette			349		
HOOD	Battleship	4, 10 /				
HOSTILE	Destroyer	118		145 /		
HOTSPUR	"	117				
HUNTER	"	118 /				95 /
HUNTLEY	Minesweeper		299 /			
HURON	Destroyer	255				
HURRICANE	"		164			250 /
HURSLEY	"	243	210			
HURST CASTLE	Corvette					357 /
HURWORTH	Destroyer			243 /		
HUSSAR	Minesweeper		296, 304	295		
HYACINTH	Corvette		350			
HYDRA	Minesweeper	311		325		
HYPERION	Destroyer			154 /		
HYPHE	Minesweeper					311 /
H. 31	Submarine			372 /		
H. 49	"					367 /
H. 50	"					366



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
IBIS	Sloop				341 /	
ILEX	Destroyer		168, 173, 233			
ILFRACOMBE	Minesweeper			317		
ILLUSTRIOUS	Aircraft Carrier		22, 23, 23, 33			
IMPERIAL	Destroyer		170	149		
INDEFATIGABLE	Aircraft Carrier		33			
INDOMITABLE	" "		27, 34		29	
INDUS	Sloop		340 /			
INGLEFIELD	Destroyer	148	254 /			
INTREPID	"		134, 242 /	151		
IRON DUKE	Battleship		1, 3			
ISIS	Destroyer		172, 185	259 ? /	259 ? /	
ITCHEN	Frigate				277 /	
ITHURIEL	Destroyer		207, 218			208
IVANHOE	"		136	147 /		
JACKAL	Destroyer	172	173, 202 /		182	
JAGUAR	"		133		194 /	
JANUS	"	171	203		251 /	
JAVELIN	"				153	
JERSEY	"			149, 163 /	116	
JERVIS	"		138, 251			
JERVIS BAY	Armed Merchant Cruiser	396 /				
JUNO	Destroyer		166 /			
JUPITER	"	186			190 /	
KANDAHAR	Destroyer		179	183 /		
KASHMIR	"		167 /			
KEITH	"		128, 129, 135 /			
KELLET	Minesweeper		296			
KELLY	Destroyer		167 /	116	125	
KELVIN	"		171			
KENT	Cruiser		60		50	
KENYA	"	71	86		85	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
KEPPEL	Destroyer					243
KIMBERLEY	"	150	123, 179		185	
KINGFISHER	Corvette		347, 347			
KINGSTON	Destroyer	192	167, 193, 196, 197 /			
KIPLING	"	183	123, 178, 183, 201 /			
KITE	Sloop				345 /	
KITTIWAKE	Corvette		353			
LADYBIRD	River Gunboat		402 /			
LAFOREY	Destroyer	232, 240	243		254 /	232
LAGAN	Frigate				277	
LAMERTON	Destroyer	182, 233				
LANCE	"		196, 196, 197 /			
LAPWING	Sloop				346 /	
LARK	Sloop				346	
LARNE	Minesweeper			323		
LATONA	Fast Minelayer		404 /			
LAURENTIC	Armed Merchant Cruiser				396 /	
LAWFORD	L.S.H. (Ex Frigate)				412 /	
LEANDER	Cruiser				91	
LEDA	Minesweeper		305		307 /	
LEDBURY	Destroyer		236			
LEGION	"		186, 193, 194 /			
LEVIS	Corvette				350 /	
LEWES	Destroyer		160, 161			
LIDDESDALE	"	264	175			
LIGHTNING	"				228 /	
LIMBOURNE	"	242			244 /	
LINNET	Minelayer				411	
LIVELY	Destroyer	192	202 /			
LIVERPOOL	Cruiser	47	48, 82		54, 82	
LOCUST	River Gunboat	407, 412		401		
LONDONDERRY	Sloop				342	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
LOOKOUT	Destroyer		243			
LOUISBURG	Corvette				354 /	
LOWESTOFT	Sloop			336		
LOYAL	Destroyer	239, 246, 253		265		
LOYALTY	Minesweeper				321 /	
LUCIA	Submarine Depot		406			
	Ship					
LUPIN	Sloop		337			
L. 27	Submarine					367
MAGIC	Minesweeper				318 /	
MAGOG	Frigate				284	
MAHRATTA	Destroyer				254 /	
MALAYA	Battleship		4		8	
MALCOLM	Destroyer	214	128			
MALLARD	Corvette		348			
MANCHESTER	Cruiser				68, 86	
MANNERS	Frigate				289	
MANXMAN	Fast Minelayer				409	
MAORI	Destroyer	154	124, 184, 188 /			
MARIGOLD	Corvette				353 /	
MARNE	Destroyer	210			217	
MARSHAL SOULT	Depot Ship (Ex Monitor)		109			
MARTIN	Destroyer		203		216 /	
MASHONA	"		169 /			
MATABELE	"				185 /	
MATANE	Frigate		282			
MATCHLESS	Destroyer			207		
MAURITIUS	Cruiser	107				
MEDWAY	Submarine Depot				407 /	
	Ship					
MELBREAK	Destroyer	234, 262, 263				
MENDIP	"		239			
MIDDLETON	"	263, 263				



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
MOHAWK	Destroyer		115		160 /	
MONTROSE	"		142			
MOOLTAN	Armed Merchant Cruiser		394			
MOSQUITO	River Gunboat		401 /			
MOTOR TORPEDO BOATS						
MOTOR AND STEAM GUNBOATS						
MOTOR MINESWEEPERS						
MOUNSEY	Frigate			285		
MOURNE	Frigate				281 /	
MULGRAVE	Minesweeper			322		
NABOB	Aircraft Carrier				31	
NAIAD	Cruiser		60, 64, 71		75 /	
NAPIER	Destroyer		171			
NARBADA	Sloop		345			
NARWHAL	Submarine					365 /
NELSON	Battleship			2, 20	13	
NEPTUNE	Cruiser	48	47, 58, 58	69 /		
NESTOR	Destroyer		206 /			
NEWARK	"		163			
NEWCASTLE	Cruiser				83	
NEWFOUNDLAND	"				93	
NEW GLASGOW	Frigate					290
NIGERIA	Cruiser				85	
NITH	L.S.H. (Ex Frigate)		413			
NIZAM	Destroyer		170, 178			
NORFOLK	Cruiser	99	41, 65			
NUBIAN	Destroyer		124, 162, 168, 235, 236			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
OB DURATE	Destroyer	226			252	
OB EDIENT	"	224				
ODIN	Submarine	364 <i>f</i>			364 <i>f</i>	
OFFA	Destroyer		255			
OLYMPUS	Submarine		364, 365, 366, 371	376 <i>f</i>		
ONSLAUGHT	Destroyer	262				
ONSLOW	"	225	256		258	
ORCHIS	Corvette			357 <i>f</i>		
ORIBI	Destroyer					232
ORION	Cruiser		63, 66			
ORPHEUS	Submarine				364 <i>f</i>	
OSWALD	"					365 <i>f</i>
OTTAWA	Destroyer				211 <i>f</i>	
PAKENHAM	Destroyer	230 <i>f</i>				
PALADIN	"		271			253
PALOMARES	Aux. A. A. Ship		408	412		
PANDORA	Submarine		375 <i>f</i>			
PANGBOURNE	Minesweeper		296			
PANTHER	Destroyer		214, 242 <i>f</i>			
PARRAMATTA	Sloop				339 <i>f</i>	
PARTHIAN	Submarine			381 <i>f</i>		
PARTRIDGE	Destroyer	205			223 <i>f</i>	
PATHAN	Sloop			347 <i>f</i>		
PATHFINDER	Destroyer		271			
PATROCLUS	Armed Merchant Cruiser				396 <i>f</i>	
PEGASUS	Aircraft Carrier		24			
PELICAN	Sloop	340	333	337		
PELORUS	Minesweeper			319		
PENELOPE	Cruiser	91	42, 76, 77, 80, 95	69	101 <i>f</i>	
PENYLAN	Destroyer				219 <i>f</i>	
PENZANCE	Sloop				335 <i>f</i>	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
PERSEUS	Submarine			372 /		
PERSIAN	Minesweeper			317		
PERTH	Cruiser		58, 67		73 /	
PETARD	Destroyer		223, 233, 235			
PETEREL	River Gunboat	404 /				
PHOEBE	Cruiser				68, 87	
PHOENIX	Submarine					365 /
PICOTEE	Corvette				350 /	
PINK	Corvette			356		
PINTAIL	Corvette		348	350 /		
PIQUE	Minesweeper			318, 321		
PIRIE	"		309			
POLYANTHUS	Corvette				355 /	
POOLE	Minesweeper		311	304		
PORCUPINE	Destroyer				220	
PORPOISE	Submarine					376, 390 /
POZARICA	Aux. A. A. Ship				410 /	
PRIMULA	Corvette		352			
PRINCE OF WALES	Battleship	11	15		15 /	
PROMPT	Minesweeper			328		
PROTEA	"		303			
PROTECTOR	Net Layer		402		403	
PROTEUS	Submarine					373
PUCKERIDGE	Destroyer		182		238 /	
PUFFIN	Corvette					360
PUNJABI	Destroyer	120				
PYLADES	Minesweeper				319 /	
PYTCHLEY	Destroyer			175		
P. 31	Submarine		373			
P. 32	"		370			
P. 33	"			371 /		
P. 34	"			371 /		370
P. 36	"			375		376
P. 38	"		374, 375 /			
P. 39	"			374 /		
P. 48	"		374, 374			
P. 222	"					378 /
P. 311	"			378 /		377 /
P. 615	"				379 /	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
QUAIL	Destroyer			246		
QUALITY	"	260				
QUEEN ELIZABETH	Battleship			16		
QUENTIN	Destroyer				219 /	
QUILLIAM	"	246, 260				
QUORN	"		160	178, 198	261 /	
RAINBOW	Submarine	366 /				
RAJPUTANA	Armed Merchant Cruiser				398 /	
RAMILLES	Battleship				18	
RAPID	Destroyer	272				
RATTLESNAKE	Minesweeper			317		
RAWALPINDI	Armed Merchant Cruiser	393 /				
REDMILL	Frigate				293	
REDOUBT	Destroyer					
REGENT	Submarine					227
REGINA	Corvette				356 /	366, 368, 378 /
REGULUS	Submarine		367 ? /			367 /
REGULUS	Minesweeper			326 /		
RENOWN	Battleship	3	5			
REPULSE	"		16		16 /	
RESOLUTION	"		4		6	
RETALICK	Frigate	283				
RHODODENDRON	Corvette			349		
RHYL	Minesweeper		312, 312			
RIPLEY	Destroyer		166			
ROBERTS	Monitor		110			
ROBIN	River Gunboat		404, 405			
ROCKWOOD	Destroyer		245			
RODNEY	Battleship		3, 18			
ROSS	Minesweeper		303			
ROTHESAY	"			303		



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
ROVER ROYAL OAK	Submarine Battleship		369		368 ? 1 /	368
SABRE SAFARI SAGUENAY SAHIB SALADIN SALMON SALAMANDER SALOPIAN	Destroyer Submarine Destroyer Submarine Destroyer Submarine Minesweeper Armed Merchant Cruiser		134, 136		153	380 379 /
SALTBURN SALVIA SAMPHIRE SARACEN SATYR SAUMAREZ SCIMITAR SCORPION SCOTSTOUN	Minesweeper Corvette Corvette Submarine " Destroyer " River Gunboat Armed Merchant Cruiser		298 349		398 / 351 / 354 /	381, 381 / 383, 387
SCYLLA SCYTHIAN SEAHORSE SEAL SEALION SEAROVER SELKIRK SERAPH SHAKESPEARE SHARK SHARPSHOOTER SHAWINIGAN SHEFFIELD SHELLDRAKE	Submarine " " " " Minesweeper Submarine " " Minesweeper Submarine " " Minesweeper Corvette Cruiser Corvette	383 250, 262, 275 405	144 405		102 362 ? / 364	381, 381 / 383, 387 393 / 362 ? / 366, 364 386 378 365 / 304
			301, 302, 306		74	357 / 349
		389	389			
			37, 59			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
SHERWOOD	Destroyer		158			
SIBYL	Submarine	383				383
SICKLE	"			386 /		380
SIKH	Destroyer	211 /				
SIMOON	Submarine					382 /
SIRDAR	"	387				382 /
SIRIUS	Cruiser		95, 97			
SKATE	Destroyer		144			
SKIPJACK	Minesweeper		297 /			
SLINGER	Aircraft Carrier			30		
SNAPDRAGON	Corvette		353 /			
SNAPPER	Submarine			368 /		
SOMALI	Destroyer		127		212 /	
SOUTHAMPTON	Cruiser		37, 42, 45, 46, 47, 56, 57 /			
SOUTHDOWN	Destroyer	254	163			
SOUTHWOLD	"		193	193 /		
SPARTAN	Cruiser		100 /			
SPEARFISH	Submarine				365 /	361
SPEEDY	Minesweeper	303		309		
SPHINX	"		295 /			
SPIKENARD	Corvette				351 /	
SPIRIT	Submarine	389				
SPITEFUL	"		387			
SPLENDID	"	379 /				379 /
SPORTSMAN	"					386
SQUIRREL	Minesweeper			330 /		
ST. CROIX	Destroyer				241 /	
ST. LAURENT	"		156, 261			
STANLEY	"				183 /	
STARFISH	Submarine					362 /
STARLING	Sloop					343
STERLET	Submarine					363 /
STEVENSTONE	Destroyer			267		
STOKE	Minesweeper		300, 301 /			
STONEHENGE	Submarine					385 /
STORK	Sloop				335, 341	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
STORM	Submarine	388				387
STORMCLOUD	Minesweeper			316		
STRATAGEM	Submarine					389 $\neq$
STRONGBOW	"					388, 390
STRONGHOLD	Destroyer	190 $\neq$			190 $\neq$	
STUART	"		157			
STUBBORN	Submarine					384
SUBTLE	"					390
SUFFOLK	Cruiser		44			
SUNFISH	Submarine		372			
SUNFLOWER	Corvette					355
SUSSEX	Cruiser		51, 108			
SUTTON	Minesweeper			295		
SWAN	Sloop		340			
SWIFT	Destroyer			259 $\neq$		
SWORDFISH	Submarine					367 $\neq$
SYDNEY	Cruiser	48, 68 $\neq$			68 $\neq$	
SYRTIS	Submarine			385 $\neq$		
TACTICIAN	Submarine	385				380
TAKU	"			385		364
TALISMAN	"					376 $\neq$
TALLYBONT	Destroyer	257				
TALLY HO	Submarine					384
TANATSIDE	Destroyer	242, 255				
TANTALUS	Submarine		388			388
TARPON	"					363 $\neq$
TARTAR	Destroyer	257				
TAURUS	Submarine		383			381, 382
TEDWORTH	Minesweeper		297			
TELEMACHUS	Submarine					387
TEME	Frigate				291	
TEMPEST	Submarine					373 $\neq$
TEMPLAR	"					386
TENEDOS	Destroyer		196 $\neq$			
TERN	River Gunboat		404			



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
TERRAPIN	Submarine					391
TENOR	Monitor		109, 109 $\neq$			
TETRARCH	Submarine					372 $\neq$
THAMES	"			366 $\neq$		
THANE	Aircraft Carrier				32	
THANET	Destroyer	187 $\neq$				
THISTLE	Submarine				363 $\neq$	
THORN	"			376 $\neq$		
THRACIAN	Destroyer	183 $\neq$	183 $\neq$			
THRASHER	Submarine					377
THUNDERBOLT	"					367, 378 $\neq$
TIGRIS	"					378 $\neq$
TIPTOE	"					391
TORBAY	"		379			374, 382, 383
TRANSYLVANIA	Armed Merchant Cruiser				394 $\neq$	
TRAVELLER	Submarine					377 $\neq$
TRENTONIAN	Corvette				359 $\neq$	
TRIAD	Submarine					367 $\neq$
TRIBUNE	"					377
TRINIDAD	Cruiser	77	81 $\neq$			
TRITON	Submarine			367 ? $\neq$		367 $\neq$
TRIUMPH	"	370		361, 373 $\neq$		
TROLLOPE	Frigate				282	
TROOPER	Submarine			382 $\neq$		
TRUANT	"				363	363
TRUCULENT	"					387
TUDOR	"		389			
TURBULENT	"			378 $\neq$		
TWEED	Frigate				278 $\neq$	277
TYNDALE	Destroyer		158, 236		249 $\neq$	
TYNWALD	Aux. A. A. Ship			409 $\neq$		
UGANDA	Cruiser		94			
ULSTER	Destroyer	242	274			
ULTOR	Submarine					385



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
ULTIMATUM	Submarine					386
UNBEATEN	"	373	375			
UNBROKEN	"					377
UNDAUNTED	"					369 <i>f</i>
UNDINE	"					362 <i>f</i>
UNION	"			370 ? <i>f</i>		370 ? <i>f</i>
UNIQUE	"		371			377 <i>f</i>
UNISON	"	380				
UNRIVALLED	"					382
UNRULY	"					383
UNSEEN	"					382
UNSHAKEN	"					380
UNSPARING	"	382				384
UNSWERVING	"					385
UNTIRING	"					386
UPHOLDER	"					376 <i>f</i>
UPRIGHT	"		374			
UPSTART	"					387
URGE	"			376 <i>f</i>		
URSULA	"					378
USK	"			369 <i>f</i>		
USURPER	"			381 <i>f</i>		
UTMOST	"					377
VALENTINE	Destroyer		127 <i>f</i>			
VALIANT	Battleship		7, 9	17		
VALLEYFIELD	Frigate				279 <i>f</i>	
VAMPIRE	Destroyer		197 <i>f</i>			
VANESSA	"		140, 174			223
VANOC	"					159
VANSITTART	"		128			
VEGA	"			152		
VENDETTA	"		176			
VENETIA	"	129		150 <i>f</i>		
VENOMOUS	"	130	130	155		
VENTURER	Submarine					384



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
VERSATILE	Destroyer		126			
VERULAM	"	265				
VERVAIN	Corvette				359 /	
VESPER	Destroyer	222				
VESTAL	Minesweeper		331 /	321		
VETERAN	Destroyer			148	212 /	
VICTORIOUS	Aircraft Carrier		26, 35			
VIENNA	Depot Ship		411			
VILLE DE QUEBEC	Corvette					354
VIMIERA	Destroyer	156	131	184 /		
VIMY	"	129	129			
VIRAGO	"		275			
VISCOUNT	"		165			213
VIVACIOUS	"	135	136, 164, 180			
VIVID	Submarine					388
VOLAGE	Destroyer	273				
VOLTAIRE	Armed Merchant Cruiser	398 /				
VOLUNTEER	Destroyer		163			
VORTIGERN	"				192 /	
VOX	Submarine					386, 387
VOYAGER	Destroyer		212 /			
WAKEFUL	Destroyer				132 /	
WALKER	"		131, 138			
WALNEY	Ex U.S. Cutter	407 /				
WALPOLE	Destroyer		143	151, 270		
WARSPITE	Battleship		4, 5, 7, 8, 12, 19	20		
WARWICK	Destroyer			155	253 /	
WATCHMAN	"		145			
WATERHEN	"		175 /			
WELSHMAN	Fast Minelayer		406		410 /	
WENSLEYDALE	Destroyer	233, 234, 242				
WESSEX	"		130 /			
WESTCOTT	"					187



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
WEYBURN	Corvette			355 /		
WHADDON	Destroyer		164			
WHIRLWIND	"		131			
WHITAKER	Frigate			286 ? /		
WHITLEY	Destroyer		128 /			
WHITSHED	"	221	125, 130	144, 191		
WIDNES	Minesweeper		302, 302 /			
WILD SWAN	Destroyer		126, 129, 161, 207 /			
WILTON	"	267	217			
WINCHELSEA	"		241, 247			
WINCHESTER	"		127, 151	151		
WINDSOR	"	191	132, 144	154		
WITHERINGTON	"		124, 159			
WIVERN	"		126			
WOLFE	Armed Merchant Cruiser		395			
WOLFHOUND	Destroyer		131, 179			
WOLVERINE	"		202			208
WOODPECKER	Sloop				345 /	
WOOLWICH	Destroyer Depot Ship		403			
WORCESTER	Destroyer	189, 221	136	249		
WORCESTERSHIRE	Armed Merchant Cruiser				397	
WREN	Destroyer		124, 143 /			
WRESTLER	"			256		
WRYNECK	"		161 /			
YARRA	Sloop	340 /				
YORK	Cruiser		61, 61, 62, 62, 62, 62, 63 /		59	



Ship	Type	Attack				
		1. Shell	2. Bomb	3. Mine	4. Torpedo	5. Various
ZAMBESI	Destroyer	266				
ZETLAND	"	264	247			
ZINNIA	Corvette				350 /	
ZULU	Destroyer	168, 211	184, 211 /	149		







SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>MALAYA</u> 15/17th May, 1944	24 No. <u>Direct Hits</u> with <u>British Shell</u>	Nil	<p>MALAYA, while on exercises, received 24 shell hits on the port side. Three hits were at main deck level, one right forward which made a hole 8 ft. by 8 ft. in the hull plating, another just forward of the forward oil fuel tanks, and a third abreast the machinery spaces. The last two did not penetrate the hull and did little damage. A fourth shell struck the armoured shield of P.4 - 6 inch mounting, badly distorted it and wrecked the training gear. The remaining 20 hits were on the side armour and had little effect.</p> <p><u>Fighting Efficiency</u> - Slightly impaired.            One 6 inch mounting was out of action.</p>



DATE OF INCIDENT	THIS INCIDENT	NATURE OF ACTION	LESSONS LEARNED



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>EAGLE</u> 14th March, 1940	Explosion of one 250 lb. <u>Bomb</u>	7 weeks	<p>EAGLE was in the vicinity of the Nicobar Islands and proceeding towards Singapore when a bomb exploded whilst ready use bombs were being fused and stowed in the bomb room. Serious damage occurred to the decks and bulkheads in the vicinity of the bomb rooms and extended to the after bulkhead of 'D' boiler room, which was pierced by splinters and to the forward bulkhead of the starboard wing engine room which was heavily buckled. Smoke fumes and flash entered the hangar and mess decks and as a precautionary measure, all bomb rooms, the fireworks and the 4 inch magazine were flooded and the hangar sprayed. Apart from one aircraft that had a burnt wing, only minor damage was caused to the planes in the hangar, chiefly as a result of spraying.</p> <p><u>Fighting Efficiency</u> - Impaired. Aircraft flying off was temporarily suspended after the explosion. Aircraft could only be operated with <b>reduced efficiency</b> due to the loss of the bomb rooms.</p>
<u>ARK ROYAL</u> 22nd March, 1941	One <u>Depth Charge</u> from crashed aircraft	Nil	<p>ARK ROYAL was operating in the Mediterranean when one of her Swordfish aircraft, which carried a depth charge, crashed ahead of the ship when taking off. The depth charge exploded and hull plating forward for about 70 ft. between the hold and platform decks was dished between framing. Slight leaks occurred.</p> <p><u>Fighting Efficiency</u> - Not impaired. The ship was still seaworthy and repairs were not effected immediately.</p>
<u>VICTORIOUS</u> 25th Feb., 1943	A <u>British Aircraft</u> <u>Crash Landed</u> carrying Two U.S. Mk. XVII <u>Depth Bombs</u> (325 lb.) which failed to <u>Detonate</u>	1 month	<p>VICTORIOUS was damaged when a Tarpon aircraft carrying two U.S. depth bombs crash landed onto the flight deck. The aircraft came to rest near the edge of the flight deck and the propellor which was still revolving, severed a petrol fuelling hose close by. The escape of petrol started a fire which engulfed the aircraft, and spread to the crane and boat deck below, but in neither case did the fire get out of control. Neither of the bombs carried by the aircraft detonated and both were recovered when the fires had been extinguished. One was found intact and the other in pieces, having probably been broken up when the plane crashed. With the exception of the boats and crane the damage to the ship was slight.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>BITER</u> 16th Nov., 1943 D.N.C.4B/R268	One <u>British</u> Mk. XXIV Contact Mine (100 lbs. Torpex) from crashed aircraft	1 month	<p>BITER was operating in the mid-Atlantic when one of her own aircraft made a crash landing in the sea just astern of the ship. The aircraft was carrying a contact mine which probably detonated on the rudder. The bottom after corner of the rudder was demolished and the rest of its structure seriously damaged. Hull plating below the waterline at the stern suffered minor damage.</p> <p><u>Fighting Efficiency</u> - Slightly impaired.            The steering of the ship was slightly affected by the damaged rudder.</p>
<u>VINDEX</u> 24th March, 1944	A <u>British</u> <u>Aircraft</u> which <u>Crash</u> <u>Landed</u> carrying two <u>Depth</u> <u>Charges</u>	3 weeks	<p>VINDEX was damaged when a Swordfish aircraft, carrying two depth charges, crash landed on her when returning from patrol and came to rest about 8 ft. from the round down of the flight deck. Petrol which leaked from the carburetter was ignited and the aircraft was set on fire. Efforts were made to extinguish the fire but before it could be got under control the two depth charges were burning fiercely and one finally exploded. A hole 8 ft. by 4 ft. was blown in the flight deck but otherwise damage was slight.</p> <p><u>Fighting Efficiency</u> - Temporarily impaired.            Temporary repairs to the flight deck were necessary before aircraft could be efficiently operated.</p>
<u>ILLUSTRIOUS</u> 29th Jan., 1945	Two <u>Direct</u> <u>Hits</u> with 5.25 inch direct action fuzed <u>British</u> <u>Shell</u>	Nil	<p>ILLUSTRIOUS, while operating with the British Pacific Fleet, was hit by two shells fired from accompanying ships when the force was being attacked by Japanese aircraft. <u>One shell</u> hit the ship's side abreast No.7 transmitter room at upper gallery deck level. Damage to the hull was not serious but splinter damage was extensive. The type 87M transmitter was wrecked and the starboard S.l. pom-pom, director and forward Wa/T set were temporarily out of action due to severed cables. <u>Another Shell</u> hit the port wing bridge at compass platform level. This portion of the bridge, and one twin oerlikon was wrecked. Splinters extensively damaged the type 285 radar aerial, the heightfinder and one director. Two aircraft on the flight deck had to be jettisoned due to severe splinter damage one being set on fire.</p> <p><u>Fighting Efficiency</u> - Impaired.            The efficiency of the fighter direction system was impaired and the aircraft complement was reduced by two planes.            One twin oerlikon was out of action.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>SHEFFIELD</u> 17th March, 1941 D.N.C.4B/R70</p>	<p>Two Non-Contact <u>British Mines</u> in 30 fathoms charge 500 lbs.</p>	<p>5 days temporary repairs including refit and damage received on 30.3.41 See Sheet 59</p>	<p>SHEFFIELD, whilst proceeding at 19 knots off the Island of Islay, Scotland, exploded two mines, one in each P.V. wire. The port and starboard hull plating and internal structure abreast the forward oil fuel tanks was strained and leaking.</p> <p><u>Fighting Efficiency</u> - Slightly impaired. The contamination of the forward oil fuel tanks affected the endurance of the ship.</p>
<p><u>TRINIDAD</u> 29th March, 1942</p>	<p>One Contact <u>Torpedo</u> fired from <u>TRINIDAD</u></p>	<p>Indeterminate (See Sheet 77)</p>	<p>TRINIDAD, while in action against German Destroyers off North Russia, was damaged by one of her own torpedoes. The torpedo struck the ship on the port side abreast the bridge at platform deck level. The explosion blew a hole 45 ft. by 20 ft. in the port side and 10 ft. by 7 ft. in the starboard side. The platform deck was destroyed for 20 ft. inboard and the lower deck and side armour were displaced. The forward boiler room, main switchboard, No.2 low power room, No.1 transmitter room, forward H.A.C.P. and transmitting station were all flooded. An immediate 17 degrees list to port was corrected by counterflooding. A fire was started by the explosion in the forward mess decks and although never out of control was difficult to fight and could not finally be extinguished till 17 hours later. All power was eventually lost due to flooding. The port torpedo tubes were lost overboard.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The forward boiler room and engine room, radar, forward H.A. director and all units in the flooded compartments were out of action. Main and secondary armament were temporarily out of action due to loss of power, but when this was restored the secondary armament was 50% efficient. After damage the ship was able to proceed at 8 to 11 knots but this was eventually reduced to 2 knots owing to contaminated feed water.</p> <p><u>Note:-</u> From recovered fragments the torpedo was identified as the one that had been fired from 'A' tube two minutes earlier.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>SHEFFIELD</u> 8th Nov., 1942	Premature explosion of one 6 inch <u>Shell</u>	Nil	<p>SHEFFIELD's forecandle was damaged during an engagement with enemy torpedo bombers, by the premature functioning of one of her own shells, probably fired from the centre gun of 'A' turret.</p> <p>The forecandle deck, cable holders, cables and capstan engine flat were damaged by splinters.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>FROBISHER</u> 18th July, 1944	One <u>Direct Hit</u> and Two <u>Near Misses</u> with small direct action fuzed <u>Bombs</u> possibly British or American	Nil	<p>FROBISHER, while operating off the Normandy beaches, was attacked by a small aircraft, possibly Allied, while a formation of 12 Liberators was passing overhead. Eight small bombs were dropped, but only three did damage.</p> <p>One penetrated the blast screen on the port side of No.2 gun deck and detonated before reaching the forecandle deck and splinters from two near misses struck the stem post and hull plating forward.</p> <p>Apart from damage to one oerlikon the damage was only superficial.</p> <p><u>Fighting Efficiency</u> - Not impaired.</p>
<u>NEWFOUNDLAND</u> 2nd Feb., 1945	<u>Burst Torpedo Air Vessel</u>	1 month	<p>NEWFOUNDLAND was at anchor off Alexandria when an explosion occurred in her port torpedo tube space and it was discovered that an air vessel of the torpedo in 'B' tube had burst.</p> <p>The torpedo space was badly damaged and the 4 inch gun deck above was forced up and fractured.</p> <p>The support of P.1 - 4 inch mounting was badly damaged by the projectile effect of 'B' torpedo and the deck in the vicinity of P.2 mounting was distorted.</p> <p>'B' tube of the mounting was extensively damaged but 'A' and 'C' tubes were only damaged at the lip end. The mounting was probably displaced.</p> <p>Cables in the vicinity supplying H.P., radar, torpedo, and 4 inch fire control were crushed or severed.</p> <p><u>Fighting Efficiency</u> - Impaired.</p> <p>The port torpedo tubes and P.1 - 4 inch mounting were out of action.</p> <p>P.2 mounting could probably only have been fired in an emergency.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>KHARTOUM</u> 23rd June, 1940	<u>Burst</u> <u>Torpedo</u> <u>Air Vessel</u>	Sunk	<p>KHARTOUM was on patrol in the Red Sea off Perim Harbour when the air vessel of the starboard wing torpedo in the after mounting exploded. The explosion jammed the after body of the torpedo in the rear end of the tube, burst the tube open and discharged the warhead aft through the after galley and superstructure where it finally came to rest against the starboard winch of the minesweeping gear. The warhead did not detonate. Fire broke out aft and, fed by oil from a fractured oil pipe in the galley, was soon out of control. Attempts to beach the ship near Perim Harbour failed when all power was lost due to accidental shutting down of boilers. It was not possible to flood the after magazine group, due to the intense heat in the vicinity and the after magazine and warhead room finally exploded. The stern was wrecked and KHARTOUM settled on an even keel with the forward guns and bridge awash.</p>
<u>MENDIP</u> 24th Oct., 1940	<u>Own Depth</u> <u>Charges</u>	3½ months	<p>MENDIP was on A/S exercises when there was an accidental explosion of one or more depth charges stowed on the upper deck aft. The stern structure above the lower deck was wrecked over a length of 40 ft. and the ship flooded over this area. The steering gear was blown away but no damage was apparent to shafts, propellers, or main engines. The after 4 inch mounting was seriously damaged.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship could probably have proceeded under her own power at slow speed. The after 4 inch gun, and all depth charge equipment was out of action.</p>
<u>ARROW</u> 16th Nov., 1940	<u>Depth</u> <u>Charges</u>	2 months	<p>ARROW was operating off the Clyde, when her machinery was damaged by the explosion of depth charges following the sinking of the trawler ARSENAL with which ARROW had been in collision. Details of the damage are not available.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. Ship was put out of action operationally.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>IMPERIAL</u> 29th May, 1941	One Contact Torpedo fired by own forces	Sunk	<p>IMPERIAL, after embarking army personnel, left Heraklion Harbour and proceeded to sea at 29 knots.</p> <p>The steering gear suddenly failed and the ship slewed violently to port and to starboard. The tiller flat steering position was out of action and it was not possible to steer by main engines as the rudder could not be centred.</p> <p>Examination revealed an extensive loss of oil in the hydraulic system but the position of the leak could not be traced.</p> <p>As the ship was unmanageable, with the rudder swinging freely, it was decided for tactical reasons to abandon and sink her by a torpedo fired from a ship in company.</p> <p><u>Note:</u> IMPERIAL was dive bombed the previous day (28.5.41) and five near misses exploded near the stern. Superficial damage was caused by splinters but examination disclosed no serious damage within the ship (See Sheet 170)</p>
<u>ACHATES</u> 25th July, 1941 D.N.C.4B/R77	One Contact British Mine in 90 fathoms Charge 320 lbs. Amatol	8½ months including refit	<p>ACHATES, while operating in the North Atlantic, at 20 knots, struck a mine under the fore end.</p> <p>70 ft. of the fore end, including 'X' gun, was destroyed and 25 ft. of the structure abaft this was severely damaged. A whipping buckle girthed the ship abreast the after oil fuel tanks.</p> <p>The fore end flooded to the fore bulkhead of the forward boiler room and the after oil fuel tanks were contaminated.</p>
<u>NESTOR</u> (H.M.A.S.) 11th Sept., 1941	<u>Own Depth</u> <u>Charge</u>	1 week	<p><u>Fighting Efficiency</u> - Seriously impaired.</p> <p>After two hours steaming astern at 8 knots, to clear the minefield, ACHATES was immobilised by the contamination of the after oil fuel tanks and had to be taken in tow. 'A' gun was missing and 'B' gun was masked by the damaged blast screen but all remaining guns could have been fired in local control.</p> <p>NESTOR, while operating in the South Atlantic, was slightly damaged by the explosion of one of her own depth charges.</p> <p>Both sliding feet of the port H.P. turbine were fractured.</p> <p><u>Fighting Efficiency</u> - Impaired.</p> <p>Speed was reduced to 18 knots.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>CASTLETON</u> 19th Nov., 1941</p>	<p>Explosion of 25 lb. Amatol <u>Scuttling Charge</u></p>	<p>5 months</p>	<p>CASTLETON was escorting a convoy off the north west of Scotland, when a scuttling charge exploded in the lower sound room of her asdic compartment. A hole about 4 ft. diameter was blown in the port side plating at keel level abreast the asdic dome. On the starboard side the plating was perforated by splinters. The upper and lower sound rooms were wrecked and flooded. Slight damage to structure of forward oil fuel tanks caused contamination with salt water.</p> <p><u>Fighting Efficiency</u> - Not seriously impaired. A collision mat was rigged over the damaged bow and the ship continued with the convoy at 15 knots. The asdic equipment was wrecked and out of action.</p>
<p><u>GARTH</u> 19th Nov., 1941</p>	<p>Six <u>Direct Hits</u> with 40 mm. <u>British Shell</u></p>	<p>3 weeks</p>	<p>GARTH, while escorting a convoy in the North Sea, was accidentally fired on by an accompanying destroyer as the result of mistaken identity when searching for suspected E boats. The ship received six direct hits on the port side from pom-pom shell. <u>One hit</u> the forward magazine below the waterline and penetrated several 4 inch charges which were ignited and started a cordite fire. The magazine was flooded, partly as a result of the shell entry hole being below water, and partly by deliberate flooding to extinguish the fire. <u>A second hit</u> on the port oerlikon gun caused slight mechanical damage. <u>A third hit</u> the forward boiler room below the waterline. The boiler room was flooded and all steam and electrical power failed due to the contamination of feed water to the after boiler room. <u>A fourth burst</u> in the engine room near the port turbo generator and fractured its exhaust steam pipe. High and low-power electric cables were also cut. <u>A fifth burst</u> near the escape hatch to the engine and gearing room and severed telephone cables. <u>A sixth hit</u> the steering compartment but did no appreciable damage.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. GARTH was immobilised and had to be towed back to port.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>WIVERN</u> 22nd Feb., 1943	Explosion of probably 20 <u>Depth</u> <u>Charges</u>	18 months	<p>WIVERN, while escorting a convoy in the Straits of Gibraltar, went to the assistance of the Canadian Corvette WEYBURN which had been seriously damaged and later sank as the result of an underwater explosion. At the time of sinking WIVERN was within 200 ft. of the wreck and as the bow disappeared a large explosion occurred, followed a second or two later by another, probably as the result of the countermining of up to 20 depth charges on the stern of WEYBURN.</p> <p>The shock effect on WIVERN was severe and the bow structure forward of the boiler rooms was generally buckled and distorted.</p> <p>At first only minor flooding occurred at the fore end, but, when the ship was later taken in tow, the rate of flooding increased until all compartments below the lower deck and forward of the boiler rooms were flooded. A list to port developed and reached a maximum of 12 degrees.</p> <p>Shock damage to main and auxiliary machinery was extensive. All turbine feet were fractured, the boilers were unseated and auxiliary machinery severely damaged. All steam pressure was lost in about 20 minutes.</p> <p>The asdic, radar and W/T equipment were wrecked.</p> <p><u>Fighting Efficiency</u> - Seriously impaired.</p> <p>The ship was immobilised as the result of extensive shock damage to machinery. The asdics, radar and W/T sets, were out of action.</p>
<u>ASSINIBOINE</u> (H.M.C.S.) 2nd March, 1943	Own <u>Depth</u> <u>Charges</u>	4½ months to repair ramming damage and bent shafts. See Sheet 227.	<p>ASSINIBOINE, while operating in the North Atlantic, rammed a submarine and during the attack six depth charges were dropped.</p> <p>Owing to the close proximity of the explosions there was a complete failure of high and low power electrical supply to the gyro compass, type 271, Radar, A/S sets and steering motors, which were all temporarily out of action until power was later restored.</p> <p><u>Fighting Efficiency</u> - Seriously impaired temporarily.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>BICESTER</u> 9th May, 1943 D.N.C.4B/R.244</p>	<p>One <u>Direct</u> <u>Hit</u> and Three <u>Near</u> <u>Miss</u> 500 lb. <u>American</u> <u>Bombs</u></p>	<p>3 months</p>	<p>BICESTER, while patrolling off the north African Coast at 18 knots, was attacked by American fighters and received one direct hit and three near misses with bombs. The direct hit perforated the ship's starboard side abreast the after oil fuel tanks, the lower deck, passed through the two starboard fuel tanks, perforated the centre line bulkhead and finally came to rest in the port after tank without detonating. The after oil fuel tanks and mess decks flooded to the waterline and the ship heeled 8 degrees to starboard, reaching a maximum of 15 degrees when adverse weather was encountered. Slight flooding occurred in the after magazine and in the gearing room through leaking shaft glands. Three near misses fell, one abreast the forward magazine, another to the starboard abreast the pom-pom platform, and a third abreast the stern, causing slight damage to structure. The rangefinder, A/S dome, W/T and radar equipment was damaged by shock.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was difficult to control at high speeds due to the flooding and heel, and her endurance was reduced by the loss of the after oil fuel tanks. Radar sets were temporarily out of action and the rangefinder was damaged.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>TUSCAN</u> 14th May, 1943 D.N.C.4B/R239	One Contact <u>British Mine</u> in 27 fathoms Charge 150 lbs. Amatol	5½ months	<p>TUSCAN was operating in the Bristol Channel at 14½ knots when an explosion occurred abreast the port side of the steering compartment. It blew a hole 22 ft. by 18 ft. in the port side plating and the plating on the starboard side was blown outboard. The structure abaft the cut up was severely damaged, the upper deck abaft 'Y' gun being blown 30 ft. upwards, and the lower deck badly buckled. The port 'A' bracket was fractured and its shaft bent downwards, the rudder was damaged and bent to starboard.</p> <p>The after magazine, after shell room, steering compartment, spirit room and after provision room flooded immediately and minor flooding, which could be controlled, occurred in the after crew space on the lower deck.</p> <p>Fires started by burning calcium floats in the steering compartment quickly burnt out. The port main engine was jammed, the starboard engine stiff to move and the steering gear seriously damaged.</p> <p>Electrical equipment and communications abaft 'Y' gun were destroyed. 'Y' gun support was damaged and the mounting stiff to train. The after depth charge equipment was wrecked.</p>
<u>QUALITY</u> 27th Aug., 1943	<u>Burst</u> <u>Torpedo</u> <u>Air Vessel</u>	4 days	<p><u>Fighting Efficiency</u> - Seriously impaired.</p> <p>The ship was immobilised due to the port engine and steering gear being out of action. 'Y' gun and the after depth charge equipment were also out of action.</p> <p>QUALITY was operating in the South Atlantic when the air vessel of a torpedo burst in the tube of the mounting and the warhead was ejected.</p> <p>No details of damage are available.</p> <p><u>Effect on fighting efficiency</u> - Not known.</p>
<u>ESCAPADE</u> 20th Sept., 1943	<u>Hedgehog</u> <u>Explosion</u>	15 months	<p>ESCAPADE was hunting a submarine off the north of Ireland when a number of hedgehogs exploded as a pattern was being fired from the mounting.</p> <p>The fore end of the bridge and wheelhouse were considerably damaged, and 'B' gun platform, and the hedgehog mounting, was wrecked. The forecastle deck was holed in several places and the upper deck was buckled and dished.</p> <p>Radar sets and 'A' gun were severely damaged and the steering gear from the bridge was wrecked.</p> <p><u>Fighting Efficiency</u> - Impaired.</p> <p>The hedgehog mounting, 'A' gun mounting and radar sets were out of action.</p> <p>The ship had to be conned, from aft.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>WIZARD</u> 10th June, 1944</p>	<p>One <u>Depth Charge</u> containing 290 lbs. Amatol or 300 lbs. Minol</p>	<p>11 months</p>	<p>WIZARD was patrolling the anchorage at Scapa Flow when a depth charge was accidentally dropped when the ship was proceeding at slow speed and preparing to anchor. The depth charge exploded under the bottom in the vicinity of the after magazine and shell rooms. Structure at the after end was severely damaged. The keel was set up 5½ ft. at the cut up and the stern dropped 3 ft. About 85 ft. of the ship between the gearing room and steering compartment - including the after oil fuel tanks, depth charge stowage and after magazine group - was flooded. Both shafts were badly bent. The main engines were relatively undamaged but auxiliary machinery was damaged by shock. The after torpedo tubes and 'Y' gun mountings were jammed.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was immobilised due to bent shafts. 'Y' mountings and the after torpedo tubes were out of action.</p>
<p><u>MELBREAK</u> 28th Aug., 1944</p>	<p>Two <u>Near Miss</u> with 250 lbs. direct action fuzed <u>British Bombs</u></p>	<p>9 weeks</p>	<p>MELBREAK, while patrolling at 15 knots off the French coast, was attacked by British aircraft, at a time when a force of Allied planes was passing in the vicinity. Two bombs burst 20 to 30 ft. to starboard abreast the fore end of the bridge. The ships starboard side and upper works above the waterline, from the funnel to the bow were perforated in many places by splinters. All compartments forward of the boiler rooms above the lower deck and the forward magazine flooded through splinter holes. All flooding was controllable by leak stopping and pumping. Splinters were also responsible for the following. Two rocket flares on the forecastle deck were ignited and three small fires started on the forward messdecks, none of which proved serious. Numerous electric cables were cut, including those for the forward lighting circuits, gyro compass, forward H.P. switchboard, S.A. gear and two radar sets. Two main aerials, the director and shield of 'A' gun, were also damaged.</p> <p><u>Fighting Efficiency</u> - Impaired. Speed had to be temporarily reduced to allow the plugging of splinter holes and the control of flooding. Types 291 and 285 radar sets were out of action.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>ZEPHYR</u> 31st Dec., 1944</p>	<p>Probably a <u>British</u> <u>Mk. 19</u> <u>Moored Mine</u> in 30 fathoms charge 100 lbs. Amatol</p>	<p>3½ months</p>	<p>ZEPHYR was on A/S patrol to westward of the Orkneys at 8 knots, when an explosion occurred abreast the port side of the after boiler room. A hole blown in the side plating measured 7½ ft. by 6½ ft.; the forward bulkhead of the boiler room was slightly distorted and the after bulkhead was holed just below the upper deck. The after boiler room was open to the sea and flooded. Slow flooding into the engine room and forward boiler room through leaks in the boiler room bulkheads - was controlled. All electrical power failed due to the loss of steam in the forward boiler room. Emergency power was supplied by diesels.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was immobilised for about one hour by loss of steam and electrical power. Power was later restored when feed water supplies were obtained from the forward boiler room. All torpedoes and upper deck depth charges were jettisoned to reduce topweight.</p>
<p><u>VALOROUS</u> 22nd Feb., 1945</p>	<p>One <u>Direct</u> <u>Hit with</u> 4.5 inch or 4 inch direct action fused <u>Shell</u> probably <u>British</u></p>	<p>Nil</p>	<p>VALOROUS, while escorting a convoy, was hit by a shell which detonated on the starboard side at the upper deck level abreast the forward boiler room. It was thought that the shell was fired by a ship in the convoy during an enemy attack. It blew a 2 ft. by 1½ ft. hole in the upper deck. Splinters caused extensive damage to structure in the vicinity of the burst and also slight damage to auxiliaries in the engine room. Electrical cables, the most important of which were those serving gunnery control, were also damaged.</p> <p><u>Fighting Efficiency</u> - Impaired. Communications to 'X' gun and the transmitter and receiver leads from the director of 'X' gun were out of action. Two turbo fans were temporarily out of action.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>PORT COLBOURNE</u> 29th June, 1944	Explosion as the result of own <u>Hedgehog</u> <u>Attack</u>	5 weeks	<p>PORT COLBOURNE, while operating in the English Channel, was damaged by a heavy underwater explosion as the result of a hedgehog attack on an A/S contact. It was thought probable that the A/S contact was the wreck of an ammunition ship. Considerable shock damage was caused to radar and A/S equipment and several pipe lines throughout the ship were damaged.</p> <p><u>Fighting Efficiency</u> - Impaired.</p>







SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>NIGER</u> 5th July, 1942	A Moored Magnetic <u>British Mine</u> charge 320 lb. Minol	Sunk	NIGER was escorting a convoy to Iceland at 8 knots, when an explosion occurred towards the after end on the port side. Immediately after the explosion NIGER listed to port, then rolled to starboard, rolled back again to port and then turned completely over and floated bottom upwards. The ship settled by the stern and finally sank, with the bows vertical, about an hour later.
<u>TADOUSSAC</u> 9th June, 1944	One <u>Direct</u> <u>Hit</u> with approx. 3.5 inch <u>Shell</u> probably Allied	Nil	TADOUSSAC, during an enemy air attack, while anchored off the Normandy beaches, was hit by a shell which had probably been fired from a ship in the vicinity. The shell passed through the minesweeping deck aft, cut the steering engine steam pipe, fractured the stern tube lubrication system and finally came to rest without detonating in a lower deck cabin. The minesweeping and cabin flat was temporarily filled with steam.  <u>Fighting Efficiency</u> - Not impaired.
<u>SALAMANDER</u> 27th Aug., 1944 D.N.C.6/R330	(i) One or more <u>Direct</u> <u>Hit</u> with 60 lb. <u>British</u> <u>Rockets</u> Charge 14 lbs. T.N.T. (ii) Several <u>Direct Hits</u> with <u>Cannon</u> <u>Shell</u>	Indeterminate (Ship not repaired)	SALANDER, while minesweeping at 5 knots off the Normandy beaches, was attacked by rocket and cannon firing Typhoons. During the third attack one or more rockets hit the ship aft; it was thought that one or more of these perforated the hull in the vicinity of the mining flat and exploded one of the depth charges stowed there. About 30 ft. of the stern structure above the waterline was destroyed. All compartments were open to the sea and flooded for 40 ft. from the stern. A fire was started amongst the wreckage aft but this was quickly got under control. The steering gear was wrecked and minesweeping gear could not be used due to the weakened condition of the surrounding structure. The depth charge equipment was wrecked or badly damaged. All radar sets were severely damaged by shock or blast. The cannon shells made holes about 4 inches diameter in the upper works but this damage was of little consequence.  <u>Fighting Efficiency</u> - Seriously impaired. Speed was reduced to 10 knots, but the ship turned in circles and had to be taken in tow. All radar, depth charge, and minesweeping equipment together with the after twin oerlikon were out of action.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>BRITOMART</u> 27th Aug., 1944	<u>British</u> <u>Rockets</u>	Sunk	BRITOMART, while minesweeping off the Normandy beaches in company with SALAMANDER, was attacked by rocket firing Typhoons. BRITOMART was hit amidships on the waterline and as a result of serious damage sustained, capsized to port and sank.
<u>HUSSAR</u> 27th Aug., 1944	<u>British</u> <u>Rockets</u>	Sunk	HUSSAR, while minesweeping off the Normandy beaches in company with SALAMANDER, was attacked by rocket firing Typhoons. HUSSAR sank as a result of her stern being blown off.



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>KITTIWAKE</u> 20th Sept., 1939	One Contact <u>British</u> <u>Mine</u>	16 months	<p>KITTIWAKE, while operating in the English Channel at 10 knots, struck a mine just abaft the bulkhead between the engine room and after boiler room. The ship was practically cut in two at this position and both the engine room and after boiler room were completely wrecked and flooded. Before and abaft the main damage only slight distortion of structure and minor leaks occurred.</p> <p><u>Fighting Efficiency</u> - Seriously impaired. The ship was immobilised and towed back to port.</p>
<u>PUFFIN</u> 8th May, 1941	Own Depth <u>Charges</u>	2 days	<p>PUFFIN, while on passage at 19½ knots from Humber to Flamborough Head, was damaged by two depth charges during a practise attack. No severe shock was felt within the ship, but the cast iron sliding feet of the H.P. turbines were fractured.</p> <p><u>Fighting Efficiency</u> - Impaired. Maximum speed was reduced to 12 knots.</p>
<u>LOTUS</u> 27th Aug., 1943	Own Depth <u>Charges</u>	10 days	<p>LOTUS, during a depth charge attack, while escorting a convoy in the Mediterranean, was damaged by the explosion of her own depth charges. Several rivets in the hull plating abreast the after peak tank, steering compartment and engine room were strained and leaking. Oil fuel leaked into the after 4 inch and small arms magazine from the adjoining fuel tanks. All leaks were kept under control by pumping.</p> <p><u>Fighting Efficiency</u> - Not impaired. LOTUS was able to continue her duties with the convoy.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>STRATHADAM</u> (H.M.C.S.) 11th April, 1945</p>	<p><u>Hedgehog</u> <u>Explosion</u></p>	<p>2 weeks</p>	<p>STRATHADAM, while operating off Northern Ireland, was damaged during hedgehog attacks on an A/S contact. At the time of one attack 11 bombs had been fired from the mounting when an explosion occurred about 30 ft. above the forecastle deck probably caused by the detonation of one or more bombs.</p> <p>The bridge and forecastle deck were damaged by splinters. Small fires broke out in the forward messdecks, but these were easily dealt with. The hedgehog mounting did not appear to be seriously damaged but electrical circuits were cut and smashed by splinters, preventing the remaining bombs from being fired. The forward capstan was damaged beyond repair.</p> <p><u>Fighting Efficiency - Impaired:</u> The hedgehog mounting was out of action.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>CLYDE</u> 27th June, 1941</p>	<p>One <u>Direct</u> <u>Hit</u> 4 inch delay action fuzed <u>British</u> <u>Shell</u></p>	<p>Nil</p>	<p>CLYDE was fired on in error by one of H.M. ships while she was in the act of diving. The shell hit and passed through the port side of the bridge casing, perforated a sanitary tank and screen bulkhead and finally burst on striking the housed W/T mast. No major damage was caused. Splinters severed electrical cables within three feet of the burst and damaged the surrounding superstructure.</p> <p><u>Fighting Efficiency</u> - Not seriously impaired. The cable aerial and the bridge sperry bearing repeater were put out of action.</p>
<p><u>THRASHER</u> 26th July, 1942</p>	<p>Four 250 lbs. <u>British</u> <u>Depth</u> <u>Charges</u></p>	<p>Uncertain</p>	<p>THRASHER, while patrolling in the Eastern Mediterranean, was attacked by a British aircraft which dropped four depth charges. The first appeared to explode under the ship on the port side abreast the fore hatch and practically stopped the ship. The next two exploded on the starboard side, abreast the boat casing and the after end of No.9 torpedo tube. The fourth charge was not seen or heard to explode. The pressure hull at the after end, and all main ballast tanks, were strained and leaking. Abreast the fore hatch, at the after end of the boat casing, and over the motor room cover plate the casing was buckled and distorted. A fire started in No.1 Battery and Nos.2 and 3 were gassing badly. All main vents were slightly distorted and leaking. No.9 torpedo tube shifted slightly on its bed, and other torpedo gear was strained. Gauges and instruments were damaged and thrown out of calibration and all compasses were out of action. The main engines and motors were undamaged. Numerous minor defects occurred.</p> <p><u>Fighting Efficiency</u> - Severely impaired. THRASHER was ultimately towed to port.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<p><u>TALISMAN</u> Approx. 12th Aug., 1942 D.N.C.4B/R196</p>	<p>Four 250 lbs. <u>British</u> <u>Depth</u> <u>Charges</u> charge 186 lbs. Torpex</p>	<p>2 weeks approx.</p>	<p>TALISMAN, while operating in the Mediterranean, was attacked by a British aircraft which dropped six depth charges. The submarine was at 45 ft. depth when the charges were dropped and four of them are thought to have exploded across the stern, one on the starboard side and three on the port side.</p> <p>The pressure hull plating at the after end was slightly dished between frames, and several rivets were strained and leaking.</p> <p>The forward D.S.E.A., upper conning tower and engine room hatches were slightly distorted.</p> <p>Shock effect temporarily immobilised the steering gear and starboard main motor and the variable speed gear of the after hydroplanes seized, putting the hydroplanes out of action.</p> <p>About 90% of the lights were damaged and all lighting at the after end failed. Various shallow depth gauges, voltmeters and ammeters were damaged and out of action. The periscopes were optically defective.</p> <p><u>Fighting Efficiency</u> - Seriously impaired temporarily. The submarine dived, temporarily out of control, to 355 ft.</p>
<p><u>UNBEATEN</u> 11th Nov., 1942</p>	<p>Possibly by own forces</p>	<p>Sunk</p>	<p>UNBEATEN, while operating in the Bay of Biscay, was sunk, possibly as the result of attacks carried out by Allied forces.</p> <p>No details of the incident are available.</p>
<p><u>SCEPTRE</u> 7th June, 1943 D.N.C.4B/R246</p>	<p>Four 250 lbs. <u>British</u> <u>Depth</u> <u>Charges</u> charge 186 lbs. Torpex</p>	<p>2 weeks</p>	<p>SCEPTRE, while carry out A/S exercises in the Orkney area, was attacked by a British aircraft when submerged at 29 ft.</p> <p>Four explosions were heard, the ship was shaken and superficial internal damage sustained. It was thought that the depth charges straddled the submarine abreast the conning tower, the nearest exploding about 55 ft. to port of the pressure hull.</p> <p>No damage was caused to the pressure hull and only minor damage to the external tank plating.</p> <p>The steering gear, both telegraphs, hydroplanes, sperry compass, and all telemotor pumps were out of action and some lights were extinguished.</p> <p>All this damage was mainly of a temporary nature consisting of minor failures due to shock.</p> <p><u>Fighting Efficiency</u> - Not seriously impaired. If the submarine had been on offensive duties, it is considered that, in view of the minor nature of the damage, she would have been able to have continued on patrol.</p>



SHIP DATE OF INCIDENT	NATURE OF ATTACK	TIME OUT OF ACTION	BRIEF ACCOUNT OF DAMAGE AND LESSONS LEARNED
<u>SPORTSMAN</u> 13th Sept., 1943	Seven Torpex filled 350 lbs. <u>Depth Charges</u> from American aircraft	3 - 4 weeks	<p>SPORTSMAN, while operating in the Mediterranean, was depth charged by an American Liberator aircraft. The charges were set to 25 ft. and one landed on the bridge and exploded when the submarine had dived to that depth, causing the main damage sustained. The conning tower hatch was damaged and conning tower flooded while the bridge casing and deck plating was smashed and distorted. Nos. 3, 4 and 5 main ballast tanks leaked. Both periscopes, radar array and bridge equipment received severe damage. Many electrical defects occurred as a result of shock and the flooding of the conning tower.</p> <p>Defects occurred in the after tubes. Several castings of auxiliary machinery were cracked and a compressor damaged. A few minor leaks were also started. The main engines and motors were undamaged.</p> <p><u>Fighting Efficiency</u> - Severely impaired. The submarine was reduced to one compressor and Nos. 3, 4 and 5 main ballast needed blowing hourly.</p>



NAME OF BUSINESS	INDUSTRY	TYPE OF BUSINESS	DATE OF ESTABLISHMENT	OTHER INFORMATION
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]
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[Faint text]	[Faint text]	[Faint text]	[Faint text]	[Faint text]



## APPENDIX

H.M. SHIPS DAMAGED or SUNK by British or Allied Weapons during the period September, 1939 - September, 1945.

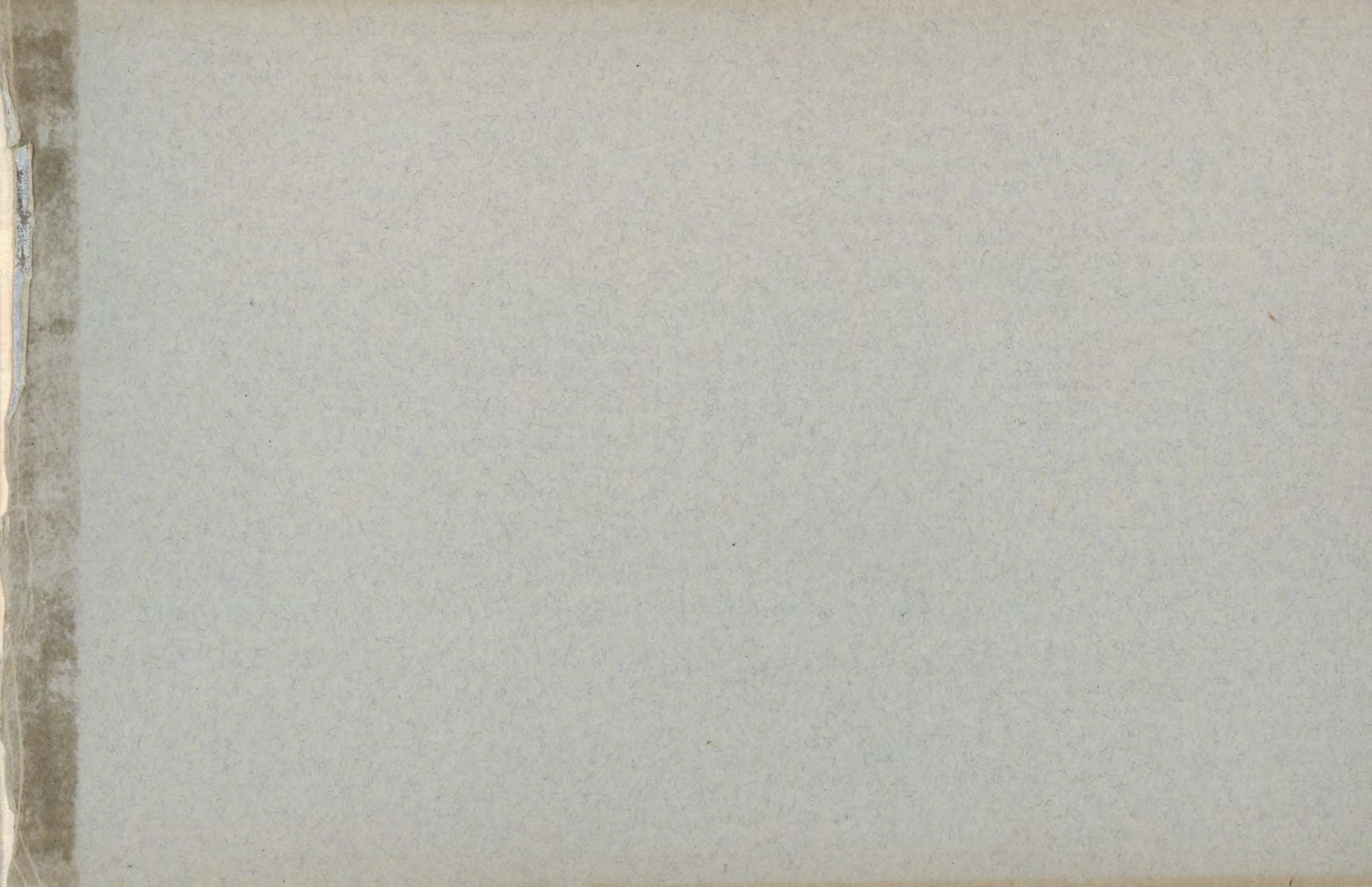
NOTE: These incidents have not been included in the Analysis of Loss and Damage by Enemy Action on Sheet iii of this book.

Ship	Type	Weapon	For account see page
ACHATES	Destroyer	Mine	468
ARK ROYAL	Aircraft Carrier	Depth Charge	463
ARROW	Destroyer	Depth Charge	467
ASSINIBOINE (H.M.C.S.)	Destroyer	Depth Charge	470
BICESTER	Destroyer	Bomb	471
BITER	Aircraft Carrier	Mine	464
BRITOMART	Minesweeper	Rocket (Sunk)	478
CASTLETON	Destroyer	Scuttling Charge	469
CLYDE	Submarine	Shell	481
EAGLE	Aircraft Carrier	Bomb	463
ESCAPADE	Destroyer	Hedgehog Explosion	472
FROBISHER	Cruiser	Bomb	466
GARTH	Destroyer	Shell	469
HUSSAR	Minesweeper	Rocket (Sunk)	478
ILLUSTRIOUS	Aircraft Carrier	Shell	464
IMPERIAL	Destroyer	Torpedo (Sunk)	468
KHARTOUM	Destroyer	Torpedo Explosion (Sunk)	467
KITTIWAKE	Corvette	Mine	479
LOTUS	Corvette	Depth Charge	479
MALAYA	Battleship	Shell	461
MELBREAK	Destroyer	Bomb	473
MENDIP	Destroyer	Depth Charge	467
NEWFOUNDLAND	Cruiser	Torpedo Explosion	466
NESTOR (H.M.A.S.)	Destroyer	Depth Charge	468
NIGER	Minesweeper	Mine (Sunk)	477
PORT COLBOURNE	Frigate	Hedgehog Explosion	475
PUFFIN	Corvette	Depth Charge	479
QUALITY	Destroyer	Torpedo Explosion	472
SALAMANDER	Minesweeper	Rocket	477
SCEPTRE	Submarine	Depth Charge	482



Ship	Type	Weapon	For account see page
SHEFFIELD	Cruiser	Mine	465
SHEFFIELD	Cruiser	Shell	466
STRATHADAM (H.M.C.S.)	Corvette	Hedgehog Explosion	480
SPORTSMAN	Submarine	Depth Charge	483
TADOUSSAC	Minesweeper	Shell	477
TALISMAN	Submarine	Depth Charge	482
THRASHER	Submarine	Depth Charge	481
TRINIDAD	Cruiser	Torpedo	465
TUSCAN	Destroyer	Mine	472
UNBEATEN	Submarine	Not Known	482
VALOROUS	Destroyer	Shell	474
VICTORIOUS	Aircraft Carrier	Aircraft with bombs crashing	463
VINDEX	Aircraft Carrier	Aircraft with depth charges crashing	464
WIVERN	Destroyer	Depth Charge	470
WIZARD	Destroyer	Depth Charge	473
ZEPHYR	Destroyer	Mine	474







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