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WAR DAMAGE

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NAVAL SEA SYSTEMS COMMAND
Department of the Navy

TO

BRITISH NAVAL VESSELS

SUMMARY OF DAMAGE BY BOMBS TO SEPTEMBER 2, 1941

DUP
of
87-2128

July 22, 1942

Preliminary Design Branch
Bureau of Ships
Navy Department

NOTE: *Indicates Admiralty Report Available in Navy Department

BOMB DAMAGE TO BRITISH NAVAL VESSELS

INTRODUCTORY NOTES

This is the fourth and final summary of war damage to British naval vessels. The preceding summaries have dealt with gunfire, mine and torpedo damage. Supplemental summaries will be issued later as information becomes available and opportunity offers.

This summary is complete from the British entry into the war up to September 2, 1941.

The destroyer section is divided, for convenience, into three groups: Major damage, minor damage and losses. The demarcation between major and minor damage is indistinct and there are a number of borderline cases. Material damages rather than impairment of fighting efficiency has been the criterion used.

The bomb sizes given in the tables are estimated sizes, quoted from British reports. In most cases the basis for these estimates is not stated.

Abbreviations: D.A. ----- delayed-action (applied to bomb fuses)
Inst. fuse ---- instantaneous, or direct-action fuse.
A.P. ----- armor-piercing

NOTE: *Indicates Admiralty Report on file Ship Protection Section, Preliminary Design.
Bureau of Ships.

BOMB DAMAGE

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Battleships & Battle Cruisers:	Date	Attack by	No., Weight & Type Bomb	& Time out of Action:	Remarks on Damage	British Notes
<u>HOOD</u> 1918 42100 Tons	:Sept.26, : 1939	:Not re- : ported	: Not re- : ported	: None	:Minor damage to plating at :top of bulge, port side. :Compartment flooded in vi- :cinity of damage. Armor un- :damaged and fighting effi- :ciency not impaired.	:
<u>IRON DUKE</u> 1912 (Demili- tarized 1931-32)	:Oct.17, : 1939	:Not re- : ported	: 2-500# (est.) : D.A. fuse	: Ship : Beached	:While at anchor Scapa Flow :near misses caused flooding :of "C" boiler room, and "Q" :and "Y" magazines. Ship :beached. All compartments :aft of "B" boiler room :flooded subsequently.	: Vessel had been : demilitarized. : (Belt armor etc. : had been removed.)
<u>IRON DUKE</u>	:Mar.16, : 1940	:Not re- : ported	:2 of unknown :size. D.A. :fuse.	: Ship : Beached	:Near misses caused slight :buckling of side plating in :way of bilge keel.	: Ship now aground at : all tides and used : as accommodation ship : and supplementary : defense unit for : Scapa.
<u>*RODNEY</u> 1925 33900 Tons	:April 9, : 1940	:Junkers :88-dive :bombing	:1-1100# (possibly :2200#) Semi- :A.P. 20" :diam., walls :about 2" :thick	: None	:While operating off Norwe- :gian coast received direct :hit on deck port side a- :breast stack. Bomb descend- :ed at angle of 40° to 45° :from forward after release :of about 1000'. Bomb pene- :trated superstructure, main :and 2nd decks, but was :broken up by 4 1/4" 3rd :deck with low order detona- :tion. Hole in armor about	:

NOTE: U.S.N. designations for decks used throughout this summary unless otherwise indicated.

CAPITAL SHIPS

BOMB DAMAGE

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Battleships & Battle Cruisers:	Date	Attack by	No. Type Bomb	Weight & of	Time out of Action:	Remarks on Damage	British Notes
<u>*RODNEY</u> (Cont'd)	:	:	:	:	:	:1'-5"x1'-1". Blast and :splinter effects small. :There was no fire.	:
<u>*RESOLUTION</u> 1915 29150 Tons	:May 16, : 1940	:4 German :planes,	:1-Est. 250# :S.A.P. 10 $\frac{1}{2}$ "	:2 Weeks :diam., walls:	:	:At anchor off Norway. Hit :on main deck starboard be- :tween "X" and "Y" turrets. :Penetrated main, 2nd and :3rd decks (Med. Steel) and :burst on sloping protective :deck (80# H.T. steel). :Hole in protective deck :4'x3'. Structural damage :not severe repairs being :accomplished by ships :force. Rush of gases and :flame caused casualties on :second deck. Small fires :started in clothing and :bedding in Marines' mess :space. Fire also occurred :in spare armature store :room.	:
<u>WARSPITE</u> 1913 30600 Tons	:July 8, : 1940	:Not re- :ported	:1-Est. 250# :Inst. fuse	:None	:	:Attacked in Mediterranean. :Near miss on port side :near #2-4" mount caused :minor structural damage, :mainly splinter effect.	:

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Battleships & Battle Cruisers:	Date	Attack by	No., Weight & Type Bomb	Time out of Action	Remarks on Damage	British Notes
<u>WARSPITE</u>	: July 12, 1940	: Not reported	: 1-Est. 100# Inst. fuse	: 2 days	: Attacked in Mediterranean : near miss starboard side : amidships. Minor structural damage mainly caused by splinters. No effect on fighting efficiency and ship remained in service until August 9, 1940.	:
1913	:	:	:	:	:	:
30600 Tons	:	:	:	:	:	:
<u>*PRINCE OF WALES</u>	: Aug. 31, 1940	: Probably Horizon level bombing.	: 1-Est. 250# incendiary type containing about 30# explosive.	: Under construction - one week delay in completion.	: During raid a bomb apparently fell in water between ship and basin wall. Ship's side aft indented about 1'-9", seams opened and rivets pulled out permitting flooding of spaces inboard. Flooding became extensive owing to fact that manhole covers, etc. were not in place. Ship took a list of 8° before flooding came under control of shore operated pumps.	: To prevent recurrence, check was made each night to see that all manholes were replaced, all valves closed and D-G holes, etc., plugged.
1939	:	:	:	:	:	:
35000 Tons	:	:	:	:	:	:
<u>RENOWN</u>	: Sept. 24, 1940	: 40 French Aircraft	: Unknown	: None	: Near misses. Fighting efficiency not impaired.	:
1916	:	:	:	:	:	:
32000 Tons	:	:	:	:	:	:

CAPITAL SHIPS

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Battleships & Battle Cruisers:	Date	Attack by	No., Weight & Type Bomb	& Time out: of Action:	Remarks on Damage	British Notes
<u>WARSPITE</u> 1913 30600 Tons	:Jan. 10, : 1941	: Not re- : ported	: Unknown	: None	: Near miss abreast star- : board hawsepipe; minor : structural damage.	: : :
<u>*WARSPITE</u> 1913 30600 Tons	:May 22, : 1941	:3Mess. :109 in :dive :attack :at :about :20-30 :degrees :from ht. :of 800 :ft.	:One direct :hit, two :misses (not :very near). :Est. 560 lb. :(250 Kg)type :D.A. fuse.	:7 months :(4 in :U.S.A.)	:Bomb perforated main deck :and detonated on second :deck, blowing off portions :of main deck and 60-lb. :side plating. Hole 6'x12' :blown in second deck, two :courses, 3/4" plus 1 1/4" :H.T. Twin 4" AA mount :blown overboard. Engines :and main armament undamaged. :Considered inadvisable :to fire forward turrets. :No.3 boiler room out of :action due to damaged fan.	: Example of severe : damages caused by : D.A. bombs bursting : within the ship.
<u>VALIANT</u> 1914 30600 Tons	:May 22, : 1941	: High :level :attacks.	: 2-50 Kg :direct hits :2-50 Kg near :misses. D.A. :fuses.	: None	:Direct hits on main deck: :minor structural and :splinter damage. Near :misses: minor structural :damage to blister.	: : : :

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Battleships & Battle Cruisers:	Date	Attack by	No., Weight & Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>BARHAM</u>	:May 27, : 1941	:Not re- : ported	: 1-250 Kg : direct hit	: 2 months	:In Mediteranean. Direct :hit penetrated 5"STS roof	:
1914	:	:	: 1-250 Kg	:	:of "Y" turret. Cordite	:
31100 Tons	:	:	:(est.) near	:	:fires in gun house quickly	:
:	:	:	:miss. D.A.	:	:under control, but cables	:
:	:	:	:fuses.	:	:damaged by fire. Near miss	:
:	:	:	:	:	:port side forward holed	:
:	:	:	:	:	:and distorted blister over	:
:	:	:	:	:	:area 16'x20'.	:
<u>WARSPITE</u>	:June 23, : 1941	:Not re- : ported	:1 D.A. fuse :1000 lb.	:See dam- :age of	:Near miss at Alexandria :while undergoing temporary	:
1913	:	:	:Near Miss	:May 22,	:repairs after attack of	:
30600 Tons	:	:	:	: 1941	:May 22, 1941. Minor damage	:
:	:	:	:	:	:to starboard upper and	:
:	:	:	:	:	:lower bulges. Both were	:
:	:	:	:	:	:crushed by the shock.	:

AIRCRAFT CARRIERS

BOMB DAMAGE
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Name of Ship	Date	Attack by	No., Weight & Type Bomb	Time out of Action	Remarks on Damage	British Notes
FURIOUS	April 16, 1940	Not reported	2-250 lbs. D.A. fuses. Near misses	4 days	Off Norway. Bombs missed about 15 yards abreast flight deck, to port. Blades of starboard inner H.P. turbine cracked putting shaft out of action.	
1916						
22450 Tons						
<u>*ILLUSTRIOUS</u>	Jan. 10, 1941	Dive bombed by Ju 87's from 12000', releasing at 1500 to 800 ft. High level attack from 14000'. Dive bombed by 15 Ju 87's High level plus dive bombing.	6 hits, 3 near misses 250 to 500 Kg., British est. See note below and remarks opposite.	10 months (6 in U.S.A.)	Escorting convoy in Mediterranean. 1. Direct hit on pom-pom platform, overhanging side; ricocheted from top of armor belt and into water; probably no explosion. Est. 500 Kg. 2. Direct hit on extreme edge of flight deck; bomb passed through side under overhang and burst about 10 ft. above the water. Extensive fragment damage to shell; compartments flooded and fire caused in lamp room, Est. 500 Kg. 3. Small direct-action bomb struck pom-pom, wrecking it and causing minor structural damage in vicinity.	Secondary positions for hangar sprinkling are required. Scuppers in hangar should have guards to prevent their being choked with debris. Trunk access to steering gear should be provided. Steel hangar fire curtains should be replaced by fabric (asbestos). Improved arrangements should be provided for fighting fires in the overhead stores in the hangar.
1939						
23000 Tons						

BOMB DAMAGE

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Name of Ship	Date	Attack by	No., Weight & Type Bomb	Time out of Action	Remarks on Damage	British Notes
*ILLUSTRIOUS (Cont'd.)					<p>4. Direct hit on after elevator while platform was down almost a deck height, which then dropped to the bottom of the well. Est. 250 Kg., Inst. fuse.</p> <p>5. Direct hit in after elevator well penetrated wrecked platform and hangar deck and burst just below this deck, Est. 250 or 500 Kg., D.A. Fuse.</p> <p>6. Direct hit on flight deck near centerline about 2/3 ship's length from bow. British est. 500 Kg., U.S. est. 1000 Kg.: (See note opposite). Penetrated 3" armor on flight deck exploding in hangar close to hangar deck. Extensive blast and fragment damage; fire curtains torn to bits, forward elevator (up) buckled, much damage to fittings and systems throughout hangar; fires started. Hole blown in hangar deck with structural</p>	

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Name of Ship	Date	Attack by	No., Weight & Type Bomb	Time out of Action	Remarks on Damage	British Notes
*ILLUSTRIOUS (Cont'd.)					:damage extending three :decks below.	
					:7. Direct hit; size not es- :timated; probably D.A. Hit :in after elevator well and :detonated at about same :level as No. 5 hit. Hits 4, :5 and 7 completely wrecked :the elevator and caused very :severe structural damage in :the after 80 ft. of the ship: :Shell plating was blown out :a foot and holed by frag- :ments. A number of fires :resulted.	
					:8. Near misses caused minor :damage and slight flooding. :Main steering failed. All :aircraft in hangar (13) :damaged--5 destroyed, 4 :burned out, 3 repairable.	
*ILLUSTRIOUS	Jan. 16,	Dive	Est. 500 Kg.	(See page	At Malta. Direct hit per-	
1939	1941	Bombing	D.A. fuse.	B6)	forated flight deck, ex-	
23000 Tons					ploded above lower gallery :deck. Serious structural and :splinter damage. Near :misses caused minor damage.	

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Name of Ship	Date	Attack by	No., Weight & Type of Bomb	Time out of Action	Remarks on Damage	British Notes
<u>*ILLUSTRIOUS</u>	:Jan. 19, 1941	:Not reported	:Not reported :Near miss.	:(See page B6)	:At Malta. Near miss port side caused minor structural damage but cracked castings to main and auxiliary machinery.	:Ship proceeded to Alexandria at 23 knots after temporary repairs.
<u>ARK ROYAL</u>	:March 22, 1941	:Not reported	: Unknown	: None	:Near miss starboard side forward; minor structural damage.	
1937 22000 Tons						
<u>FURIOUS</u>	:April 16, 1941	:Not reported	:Two, details unknown.	: None	:Ship undergoing repairs at Belfast. Two near misses; minor structural damage, splinters damaged superstructure and electric leads.	
1916 22450 Tons						
<u>FURIOUS</u>	:May 5, 1941	:Not reported	:One direct hit, D.A. fuse. Size Unknown	: 7 days	:At Belfast (see above). Direct hit on flight deck penetrated two decks exploding in lower hangar. Minor structural damage. Electric leads and spraying systems damaged. Fire in lower hangar - fire curtains destroyed.	:Fighting efficiency not seriously impaired.
1916 22450 Tons						
<u>PEGASUS</u>	:May 5, 1941	:Not reported	:One near miss, Inst. fuse. Size Unknown	: None (ship under repair)	:Damaged during raid on Belfast. Near miss, port side amidships. Side perforated by fragments over full length above W.L. Extensive minor damage to	:Fighting efficiency not seriously impaired.
1914 6900 Tons Experimental seaplane carrier						

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Name of Ship	Date	Attack by	No., Weight & Type of Bomb	& Time out of Action	Remarks on Damage	British Notes
<u>PEGASUS</u> (Cont'd.)					:fittings. Oil leaked over- :board and burned on :water.	
<u>*FORMIDABLE</u> 1939 23000 Tons	:May 26, : 1941	: Dive : Bombers	:Two direct :hits by 1000 :Kg. AP bombs; :D.A. fuses.	:6 months :(3 in :U.S.)	:Attacked off Scarpanto :(Med.). Hit No. 1 struck :forward, penetrated about :28 ft. and detonated below :hangar deck (did not hit :armored portion of flight :deck). Blew hole 52'x14' in :shell plating, caused ex- :tensive structural damage :over a volume of 52' long :and 4 deck heights. Fires :started were quickly ex- :tinguished. Hit No. 2 :struck 'X' gun platform, :passed through overhanging :side and exploded about :12 ft. under water. Strut :arm and stern casting frac- :tured, and minor structural :damage done to hull :opposite burst. Speed re- :duced to 20 knots in fair :weather. 'X' gun mount out :of action. Forward elevator :and two forward gun mounts :could be used only in emer- :gency.	

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out of Action	Remarks on Damage	British Notes
<u>AURORA</u>	Sept. 26, 1939	Not reported	Several, est. 50 and 250 lbs., all D.A. fuses.	None	North Sea with SHEFFIELD. Minor damage to 'B' turret (glancing blow) did not prevent operation. Several near misses. Minor structural damage.	
1936						
5270 Tons						
6-6" Guns						
<u>SHEFFIELD</u>	Sept. 26, 1939	Not reported	Several, est. 50 and 250 lbs., all D.A. fuses.	None	North Sea with AURORA. Near miss 20-30 yards abreast 'B' turret put one Asdic out of action and caused minor damage to machinery and electrical equipment.	Fighting efficiency unimpaired.
1936						
9100 Tons						
12-6" Guns						
<u>SOUTHAMPTON</u>	Oct. 16, 1939	German dive Bombers.	Direct hit 1000 lb. AP D.A. fuse.	3 days, temporary repairs	Anchored Firth of Forth. Bomb hit corner of pom-pom magazine, passed through three decks at an angle, went out through the side and exploded below water. Minor structural damage. Electric power failed temporarily.	Splinter protection must be provided for exposed personnel. Circuit breakers should be locked in. Starter handles to L.P. operators to be tied in the 'on' position. Important fuses should be wired in place to prevent jumping out under shock.
1936						
9100						
12-6" Guns						
<u>EDINBURGH</u>	Oct. 16, 1939	German dive Bombers.	500 lbs. est. Two near misses. Inst. fuse.	None	Anchored Firth of Forth. Two near misses "counter-mined" a third bomb about 20 ft. above water, 50 ft. from the starboard side. Considerable splinter	
1938						
10000 Tons						
12-6" Guns						

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>EDINBURGH</u> (Cont'd.)	:	:	:	:	:damage; three pierced 5/8"	:
:	:	:	:	:	:side plating, many hit	:
:	:	:	:	:	:upper works. Minor damage	:
:	:	:	:	:	:to electrical equipment.	:
<u>COVENTRY</u>	:Jan. 1, : 1940	:Not re- : ported	:Two near :misses, 250- :500 lb. D.A. :fuses.	:3 months :(inc. :refit)	:Anchored. Both bombs fell :15-20 ft. to port abreast :No. 6 gun. Slight struc- :tural and no splinter dam- :age. Cracked castings in :main and auxiliary machin- :ery. Radio out of action.	:
1917	:	:	:	:	:	:
4290 Tons	:	:	:	:	:	:
10-4" AA.	:	:	:	:	:	:
	:	:	:	:	:	:
<u>*NORFOLK</u>	:Mar.16, : 1940	:Level :flight :or :shallow :dive :release, :between :1500 and: :3000 ft.:	:Direct hit :500 lb. AP :D.A. fuse. :Two near :misses, 500 :lb. D.A. :fuses.	:3 months	:Anchored Scapa Flow. Bomb :hit quarterdeck, port side, :and passed diagonally :through the ship exploding :just inboard of the shell :at the turn of the bilge on :the stbd. side. Severe :structural damage; hole :8'x14' blown in shell. :Flooding over about 88' up :to waterline. 'X' and 'Y' :turrets and steering gear :out of action.* Probably :would be unseaworthy in :rough weather, though made :13 knots to the Clyde. Fire :followed explosion and 'X' :and 'Y' magazines could not :be flooded due to jammed :operating gear, although it	:New portable pumps :needed (the one :available was far :too heavy and bulky :to warrant the name :'portable'). W.T :doors below the :lower deck should be :stiffened. :Trunks to be fitted :to certain important :compartments (e.g., :to steering gear room).

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>*NORFOLK</u> (Cont'd.)					:happened that these spaces :flooded automatically due :to damage. :*Telemotor leads cut by :splinters, both sides.	
<u>GLASGOW</u> 1936 9100 Tons 12-6" Guns	:Apr. 9, : 1940	:Not re- : ported	:Two 500 lb., :both near :miss. One :Inst. and :D.A. fuse.	: 2 days	:Norwegian coast; Both bombs :dropped to port. One burst :on impact 15 ft. abreast :Sta. 70, the other under wa- :ter forward. Mainly splinter :damage; slight structural :damage and minor flooding. :'A' turret temporarily out :of action. Speed reduced for :half hour due to trim by :bow.	:Lower airports to be :blanked. Air test :plugs to be fitted in :lower deck hatches :(to detect flooding). :Quick-setting cement :and tongued-and grooved :planks to be supplied :for damage control. :W.T. sluice valves to :be fitted in vent :trunks where trunks :pierce lower and plat- :form decks. Additional :welding sets for damage :control parties.
<u>SOUTHAMPTON</u> 1936 9100 Tons 12-6" Guns	:Apr. 9, : 1940	:Not re- : ported	:One near :miss, size :of bomb not :estimated.	: None	:Minor damage; director :temporarily out of action	
<u>FENELOPE</u> 1935	:Apr. 10, : 1940	:Not re- : ported	:Four near :misses. Inst: :fuse. Size		:Bottom had been previously :damaged extensively by :grounding on submerged rock	

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>PENELOPE</u> (Cont'd.)			not estimat- ed.		off Norway; the bombing attack was while the ship was anchored after tempor- ary repairs. Four near misses about 15 yards to port caused extensive splinter damage and minor flooding.	
5270 Tons						
6-6" Guns						
<u>BERWICK</u>	April 16, 1940	Not re- ported	Near misses. Both Inst. and D.A. fuses. No. and wt. not est.	None	Bombs exploded under the bottom abreast sta. 105-117 port and under the stern from sta. 262 aft. Slight structural damage and minor flooding. Those which deto- nated on water surface caused splinter damage to aircraft and hangar.	Fighting efficiency slightly impaired
1926						
10000 Tons						
8-8" Guns						
<u>*SUFFOLK</u>	Apr. 17, 1940	High level and dive bombing. 88 bombs dropped in 33 separate attacks.	Direct hit by 1100 lb. (est.), D.A. fuse. 2 near misses, 500 lb., Inst. fuse. 1 near miss, 500 lb., D.A. fuse.	8 months	Returning from bombardment of Stavanger Aerodrome, Norway. Direct hit on main deck stbd., just forward of 'X' turret, perforated main second, lower and 1st plat- form decks and exploded midway between after end of engine room and forward end of 'X' turret shell room. Severe structural and splinter damage; one small hole in side; flooding of after engine room and com- partments below lower deck back to 'Y' shell room.	Recommended that lining and insula- tion on the ship's side be removed to facilitate locating and plugging splinter holes. Certain air ports be- low the weather deck to be blanked off. More flashlights and sea boots for damage control personnel; more rescue breathing apparatus (only two on board).
1926						
10000 Tons						
8-8" Guns						

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
*SUFFOLK (Cont'd.)					:This put the after engine :room and both after turrets :out of action. :Two near misses 15'-20' :from stbd. side just aft of : 'Y' turret, with Inst. :fuses, caused severe splin- :ter damage. Ship flooded up :to main deck. :Near miss 15' abreast after :boiler room caused flooding :of bulge compartment :(blister) by D.A. fuse. :The near misses put the :steering gear out of action :(control later regained) :and the after end of the :ship was abandoned. Speed :reduced to 15 knots. Ship :unseaworthy and beached at :Scapa Flow after steaming :22½ hrs. at 15 knots	:Fog nozzles recom- :mended for fire- :fighting. :Linoleum very slippery :when wet. Fumes from :linoleum cement caused :difficulty. :Trunk access from main :deck to steering gear :being installed. Mag- :azine flooding control :gear jammed.
<u>DEVONSHIRE</u>	:April 23 : 1940	:Not re- :ported	:Near misses. :Both inst. :and D.A. :fuses. No. :and wt. not :est.	: None	:Slight structural damage :due to shock and splinters. :Minor flooding.	:Fighting efficiency :not impaired.
1927						
9850 Tons						
8-8" Guns						

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out of Action	Remarks on Damage	British Notes
* <u>CURACOA</u>	Apr. 24, 1940	Mostly high level attacks, 8000 to 10000 ft.	One direct hit 500 lb. D.A. fuse. One near miss, D.A. fuse, size not est. Large no. fell within 20-50 yds. of ship. Some had very long delay, up to 12 seconds.	4 months	3 days of bombing off Norway. Near misses prior to direct hit caused minor structural damage and leaks in oil tanks. Direct hit on port wing of lower bridge perforated superstructure deck and exploded just above fore-castle deck, causing severe structural damage. All bridge controls and communications out of action. Two of the tripod mast supports severely damaged but alignment remained reasonably correct.	Pom-pom ready service locker bottom blown off by blast and tents scattered; none exploded. Pom-pom in perfect working order though deck around it wrecked completely. Ammunition drum of quad. 0.5" MG hit; no rounds exploded. Supply fan sucked gas into HACP (plot) forcing personnel to use masks. Ventilation inadequate. Supply fan to be controlled from within.
A. A. Ship 1917 4290 Tons 8-4" Guns						
<u>COVENTRY</u>	May ____, 1940	Not reported	No details except D.A. fuses.	None	Near misses strained oil tanks causing leakage.	Fighting efficiency unimpaired.
1917 4290 Tons 10-4" A.A.						
<u>AURORA</u>	May 18, 1940	Not reported	Not reported	4 weeks	Damage to turrets when off Norway; details not known.	
1936 5270 Tons 6-6" Guns.						

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Name of Ship	Date	Attack by	No, Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>CAIRO</u>	:May 25, : 1940	:Not re- : ported	:100-200 lb. : near miss, : Inst. fuse.	: None	:Superficial splinter damage; : antenna and direction : finder aerials shot away by : splinters.	
<u>SOUTHAMPTON</u>	:May 25, :May 26, : 1940	:Not re- : ported	:100-200 lb. : near misses : Inst. fuse.	:10 days	:Off Norway. Splinter damage : above the waterline; some : damage to superstructure.	:Fighting efficiency : unimpaired.
1936 9100 Tons 12-6" Guns						
<u>CURLEW</u>	:May 26, : 1940	:Not re- : ported	:Direct hits	: Sunk		
1917 4290 Tons A.A.						
<u>CAIRO</u>	:May 28, : 1940	:Not re- : ported	:Two direct : hits, Inst. : fuses.	:5 weeks	:Structural and splinter : damage to bridge and super- : structure; minor damage to : aux. machinery and steam : joints reduced steaming : efficiency.	
1918 4200 Tons 8-4" A.A.						
<u>CALCUTTA</u>	:June 2, : 1940	:Not re- : ported	:Not reported	: None	:Patrolling off Dunkirk, : Fracture in gear case; also : in oil cooler discharge : pipe.	:Fighting efficiency : unimpaired.
1918 4200 Tons 8-4" A.A.						

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<u>GLOUCESTER</u>	:July 7,	:Not re-	:Direct hit-	: None	:During attack on Italian	:
	: 1940	: ported	:no details	:	:ships. Minor damage to	:
1937	:	:	:	:	:bridge structure and in-	:
9400 Tons	:	:	:	:	:struments thereon.	:
12-6" Guns.	:	:	:	:	:	:
<u>*SUSSEX</u>	:Sept.18,	: Night	:Direct hit,	: 20 $\frac{1}{2}$:In basin, Clydeside, after	:Ship still in ship-
	: 1940	: bomber	:est. 250 Kg.	: months	:refit. Bomb hit main deck	:builder's hands and
1928	:	:	:D.A. fuse.	:	:abreast mainmast, pene-	:not under control of
9850 Tons	:	:	:	:	:trated 4 decks in all and	:full complement,
8-8" Guns	:	:	:	:	:exploded in stbd. thrust	:which is reason given
	:	:	:	:	:block compartment. Shell	:for spread of fire.
	:	:	:	:	:not ruptured, though	:Doors and hatches
	:	:	:	:	:pierced by fragments. Ad-	:appear to have been
	:	:	:	:	:jacent oil tank boundaries	:open or insufficiently
	:	:	:	:	:penetrated releasing oil	:secured. If the ship
	:	:	:	:	:which caught fire. Both	:had been at sea,
	:	:	:	:	:engine rooms on fire as oil	:it is considered
	:	:	:	:	:spread. Large quantities of	:that the fire could
	:	:	:	:	:water pumped in by local	:have been confined
	:	:	:	:	:brigades caused ship to	:to the after engine
	:	:	:	:	:heel to 23 degrees and	: room.
	:	:	:	:	:ground; this caused damage	:Remote control gear
	:	:	:	:	:to propellers, etc.	:for magazine flooding
	:	:	:	:	:Ship seriously damaged from	:system jammed, but
	:	:	:	:	:forward engine room to the	:local controls operable.
	:	:	:	:	:stern.	:
<u>*SOUTHAMPTON</u>	:Jan. 11,	: Dive	:2 or 3 250	: Sunk	:Attacked while escorting	:No British notes. U. S.
	: 1941	: bombers	:Kg. direct	:	:convoy off Malta. Hit just	:comment based on ob-
1936	:	:	:hits, D.A.	:	:forward of 'X' turret	:server's report follows:
9100 Tons	:	:	:fuse. First	:	:caused extensive internal	:(1) Officers should not
12-6" Guns	:	:	:hits had in-	:	:damage and killed 27 offi-	:congregate in same room
	:	:	:cendiaries	:	:cers in wardroom. Oil fire	:at same time. (2) Train-
	:	:	:attached to	:	:resulted; 'Y' magazine	:ing in fire fighting is
	:	:	:bombs.	:	:flooded but operating gear	:essential (NB: British

BOMB DAMAGE

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
*SOUTHAMPTON (Cont'd.)	:	:	:	:	:for 'X' and 4" magazine :floods was jammed. Hit on :port hangar penetrated to :and exploded on protective :deck, splitting it and :causing fire in 'A' boiler :room. Possibly another hit :aft. All water supply and :power lost due to extensive :fires; this with loss of :key personnel, forced aban- :donment of ship. She was :sunk by torpedoes from H.M. :ships.	:and U.S. Navy both now :have fire fighting :schools). (3) Special :nozzles on hoses are :needed for efficient :use and for protection :of personnel (NB: being :provided in both U.S. :and H.M. Navies). :(4) Another case of :jammed reach rods to :magazine flood gear. :(5) Holes were cut in :the deck to get at :the fires--a possible :use for the damage :control party's acetylene :torches in similar cases.
GLOUCESTER	:Jan. 11, : 1941	:Not re- : ported	:Direct hit :by 25 Kg. :bomb (dud). :Near miss, :size not est. :Inst. fuse.	:1 month	:Escorting convoy in Medi- :terranean. Direct hit :through forward 6" director :control which damaged :rangefinder; bomb was a dud. :Minor damage caused by near :miss fragments.	:
1937 9400 Tons 12-6" Guns.	:	:	:	:	:	:
PERTH (H.M.A.S.)	:Jan. 15, :1941	:Not re- : ported	:One near :miss. Size :and type un- :known	: None	:Near miss aft while at :Malta. Minor structural :damage in way of oil fuel	: 'Y' turret out of :action due to shock.

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BOMB DAMAGE

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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>PERTH</u>					:tanks; minor flooding of	
(Cont'd.)					:'X' shell room and adjacent	
					:compartments.	
1934						
6980 Tons						
8-6" Guns.						
<u>AJAX</u>	:Jan. 24, : 1941	:Not re- : ported	:Near miss; :no details	: None	:Three low power generators :stripped (apparently refers :to some auxiliary machinery):	:Fighting efficiency :not impaired.
1934						
6985 Tons						
8-6" Guns.						
<u>NEPTUNE</u>	:Feb. 9, : and :Feb. 16, : 1941	:Not re- : ported	:On 9th, had :near miss :from 250 Kg. :D.A. Bomb. :On 16th, had :near miss; :details of :bomb not es- :timated.	:2½ months	:On 9th, near miss was 20-30 :ft. to port abreast main- :mast. Minor damage to oil :tanks and radio compart- :ments. On 16th, ship was in :dry dock at Chatham. Bomb :exploded 150 yards away to :port, on deck side, causing :superficial splinter damage.	
1932						
7175 Tons						
8-6" Guns.						
<u>BONAVENTURE</u>	:Mar. 23, : 1941	:Not re- : ported	:One near :miss, size :unknown, :Inst. fuse.	: None	:Damaged during attack on :Grand Harbor, Malta. Super- :ficial damage by fragments.	
1939						
5450 Tons						
10-5.25" Guns						

BOMB DAMAGE

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Name of Ship	Date	Attack by	No. Type Bomb	Weight	Time out of Action	Remarks on Damage	British Notes
<u>SHEFFIELD</u>	:Mar. 30, 1941	:French dive bomber	:One near miss, 250 Kg., D.A. fuse.	:5 days	:Near miss 10-15 yds. to port, forward, Minor damage to shell and framing below water.	:Fighting efficiency not impaired.	
1936	:	:	:	:	:	:	:
9100 Tons	:	:	:	:	:	:	:
12-6" Guns.	:	:	:	:	:	:	:
<u>NAIAD</u>	:Apr. 10, 1941	:Raid on Tyne Area	:500 Kg. 250 Kg. near misses Inst. fuse.	:None	:Superficial splinter damage Keeps to sliding feet of turbines damaged; glass in F.C. instruments broken; gyro damaged.	:Modified keeps an advantage.	:Modified magazine stowage stood shock well.
1939	:	:	:	:	:	:	:
5450 Tons	:	:	:	:	:	:	:
10-5.25" Guns	:	:	:	:	:	:	:
<u>KENT</u>	:Apr. 21, 1941	:Raid on Plymouth	:Direct hit, Inst. fuse. Near miss, Inst. fuse. Both 50 Kg.	:None (under repair at time)	:In dry dock. Direct hit just abaft 'Y' turret; minor structural damage. Extensive but unimportant splinter damage.	:Fighting efficiency not impaired.	
1926	:	:	:	:	:	:	:
10000 Tons	:	:	:	:	:	:	:
8-8" Guns	:	:	:	:	:	:	:
<u>YORK</u>	:Apr. 22, Apr. 24, May 5, May 18, May 19, May 20, May 22, 1941	:Repeated bombings of harbor prior to Crete invasion	:As noted under 'Remarks'	:Abandoned	:Bombed at Suda Bay while beached after torpedo attack March 26th. 22 April: Two near misses, one close aboard and one 75 yards away, caused re-flooding of engine room, previously flooded by torpedo attack and pumped by salvage operations. 24 April: Near miss close aboard increased extent of flooding.		

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BOMB DAMAGE

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Name of Ship	Date	Attack by	No., Weight :Type Bomb	Time out: :of Action:	Remarks on Damage	British Notes
YORK (Cont'd.)					:5 May: Ten near misses.	
					:18 May: Direct hit on 'B'	
					:turret roof by est. 500 Kg.	
					:bomb wrecked turret and blew	
					:rear plate into the bridge	
					:structure. Near miss lifted	
					: 'A' turret off roller path	
					:and split turret sides.	
					:Flooded to W.L. from 14 to	
					:203 stations.	
					:19 May: Near miss, est.	
					:500 Kg., increased damage	
					:and flooding.	
					:20 May: Direct hit on 'Y'	:Vessel abandoned
					:turret by est. 500 Kg. bomb	:20 May after all
					:wrecked turret.	:secondary armament
						:removed.
					:22 May: Direct hit amid-	
					:ships caused extensive	
					:damage.	
GLOUCESTER	:Apr. 30, : 1941	:Not re- : ported	:D.A. fuses. :Size not :est. 1	:1 day :(temp. :repairs)	:Direct hit on upper deck :passed through 3 decks and :out through side below	:Fighting efficiency :not impaired except :for slightly reduced
1936			:direct hit,		:waterline. Did not explode.	:speed.
9400 Tons			:probably 1		:Minor structural damage and	
12-6" Guns.			:near miss.		:slight flooding. Side	
					:plating below waterline had	
					:minor damage from near miss.	

BOMB DAMAGE
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Name of Ship	Date	Attack by	No. Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>ADVENTURE</u> 1924 6740 Tons Cruiser- Minelayer 4-4.7"Guns.	:May 4, : 1941	:Raid on :Liver- :pool	:Near miss, :no details.	: None	:Superficial splinter damage :while undergoing repairs of :previous damage caused by :mine.	
<u>COVENTRY</u> 1917 4290 Tons 10-4" AA	:May 17, : 1941	:Not re- :ported	:No details		:Minor near miss damage :while being repaired as re- :sult of torpedo attack in :Mediterranean.	:Fighting efficiency :not impaired.
<u>AJAX</u> 1934 6985 Tons	:May 20, : 1941	:Not re- :ported	:No details	: None	:Near miss fractured stem :and bent it below waterline. :Minor flooding forward. :Both shafts distorted.	:Speed reduced to 25 :knots.
<u>*FIJI</u> 1939 8000 Tons 12-6" Guns.	:May 22, : 1941	:Dive :Bombers	:Several near :misses Inst. :fuse. 2 near :misses D.A. :fuse. 1 :direct hit :D.A. fuse.	: Sunk	:During evacuation of Crete, :two D.A. fuse near misses :caused shock damage to :auxiliaries P-1 gun mount, :electrical power and com- :munication lines, and :caused extensive flooding.	

BOMB DAMAGE
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Name of Ship	Date	Attack by	No., Weight : Type Bomb	Time out : of Action:	Remarks on Damage	British Notes
*FIJI (Cont'd.)					:List to port 25°. Direct :hit caused additional :flooding - and list of 30°. : :Ship capsized 1 hr. after : :direct hit, due to asymet- : :rical flooding with nega- : :tive stability. Compare : :with case of U.S.S. RALEIGH : :(CL7) damaged Dec. 7, 1941. :	
ORION	May 22, 1941	Not reported	No details	None	:In night action during : :Crete evacuation; near miss : :caused superficial splinter : :damage, weakened foremast, : :damaged aerals. :	
1932 7215 Tons 8-6" Guns.						
NAIAD	May 22, 1941	Not reported	No details. Probably both D.A. and Inst. fuses.	3 weeks (temp. repairs)	:During Crete evacuation, : :received excessive splinter : :damage from stem to 66 : :station above waterline. : :Flooded partially forward. : :Auxiliary machinery cast- : :ings fractured. :	:Damage confined to : :wholly welded portion : :which stood up well : :under shock. :
1939 5450 Tons 10-5.25"Guns						
CARLISLE	May 22, 1941	Not reported	Direct hit 250 Kg. Inst. fuse.	1 month	:During Crete evacuation. : :Direct 250 Kg. hit on left : :gun of No. 2 twin 4" mount- : :ing wrecked guns. Direct 50 : :Kg. hit on after stack des- : :troyed it. Extensive splin- : :ter damage within 150' : :radius. Minor gasoline fire : :caused ignition ready use : :ammunition. R.D.F. out of : :action. :	
1918 4200 Tons 8-4" AA						

BOMB DAMAGE
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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out of Action	Remarks on Damage	British Notes
<u>GLOUCESTER</u>	:May 22, : 1941	:Dive :bombers.	:No details	: Sunk	:Attacked by dive bombers :during Crete evacuation; :sunk by direct hit or hits.	:
1936	:	:	:	:	:	:
9400 Tons	:	:	:	:	:	:
12-6" Guns.	:	:	:	:	:	:
<u>AJAX</u>	:May 28, : 1941	:Not re- : ported	:Direct hit-- :no details.	: None	:Some damage and a fire; no :details.	:Fighting efficiency :not seriously im- :paired.
1934	:	:	:	:	:	:
6985 Tons	:	:	:	:	:	:
8-6" Guns.	:	:	:	:	:	:
<u>NORFOLK</u>	:May 28, : 1941	:Medium :level :bombing	:4-100 Kg. :near misses, :D.A. fuses.	: None	:Stick of 4 bombs off star- :board bow caused slight :distortion of hull and :leaks in riveted oil tank :connections.	:
1928	:	:	:	:	:	:
9925 Tons	:	:	:	:	:	:
8-8" Guns.	:	:	:	:	:	:
<u>*ORION</u>	:May 29, : 1941	:Not re- : ported	:Two direct :hits, 500 Kg. :D.A. fuses.	:8 months :(4½ in :U.S.A.)	:During evacuation of Crete. :Near misses caused leaks in :6 oil tanks and flooding of :after 6" magazine. Direct :hit penetrated roof of 'A' :turret, detonating on :roller path and starting a :cordite fire in the turret. :Fires on lower decks. For- :ward magazines flooded as :precautionary measure. :Direct hit on bridge, burst :in lower steering position. :Serious structural damage :over entire width of ship	:Damage control, lower :steering and telephone :exchange stations :should be separated :more, as a large loss :of key personnel in :these spaces and loss :of communication was :caused by one hit.
1932	:	:	:	:	:	:
7215 Tons	:	:	:	:	:	:
8-6" Guns.	:	:	:	:	:	:

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BOMB DAMAGE
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Name of Ship	Date	Attack by	No., Weight :Type Bomb	Time out: :of Action:	Remarks on Damage	British Notes
*ORION (Cont'd.)					:from hold to forecastle :deck. Top of 4" magazine :(80 lb. armor) blown down :6 feet. Fires started in :vicinity of burst. Switch- :board abandoned; 'A' boiler :room evacuated temporarily. :'A' and 'B' turrets out of :action. 'X' and 'Y' turrets :in local control. Damage :control position and all :low power lower control :tower and telemotor leads :destroyed.	
*DIDO	:May 29, : 1941	:Dive :bombers	:One 500 Kg. :direct hit, :D.A. fuse. :Many near :misses.	:5 months :(2½ in :U.S.A.)	:Damaged during Crete evac- :uation. Direct hit on 'B' :turret penetrated roller :path and exploded just :above forecastle deck. :Right gun blown overboard. :'Q' turret (just abaft 'B') :had not been installed, but :the foundation was damaged :and roller path distorted. :Fires started from cordite :in 'B' turret. Fumes were :drawn into fwd. boiler room :and course changed to pre- :vent evacuation of compart- :ment.	: 'Q' turret (as well as :'B') would have been :out of action if in- :stalled. :Fires out in an hour.
1939						
5450 Tons						
10-5¼" Guns.						

BOMB DAMAGE
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Name of Ship	Date	Attack by	No., Weight Type Bomb	Time out: of Action:	Remarks on Damage	British Notes
<u>PERTH</u> (H.M.A.S.)	May 30, 1941	Not re- ported	Near misses; no details.	2½ months (est.) in:	Damaged during Crete evac- uation. Severe shaking from Australia: near misses caused exten- sive seepage through rivets in hull. Superficial splin- ter damage. Oil contamina- tion. Range keeping instru- ments out of action due to shock.	
1934						
6980 Tons						
8-6" Guns.						
<u>CALCUTTA</u>	June 1, 1941	Not re- ported	Direct hit.	Sunk	Crete evacuation. No details: available.	
1918						
4200 Tons						
8-4" AA						

BOMB DAMAGE

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Name of Ship	Date	Attack by:	Time out of Action	Remarks	British Notes
<u>ECLIPSE</u> 1375 Tons 1934	:Nov. 4, : 1940	:One direct :hit, three :near miss- :es - Inst. :fuses, 110 :lb. bombs - :(est.).	:4 months	:Off Norway - :Direct hit at deck edge stbd., :middle of engine room. Hull dam- :aged down to bilge keel. Engine room :shaft alleys, warhead magazine :flooded. Splinter damage to battle :control circuits. Dynamos failed :due to flooding. Ship immobilized.	:All DD's to be supplied :with 12" manila rope :fitted to shackle on to :a cable, with a towing :slip, at the other end, :to facilitate towing when :ship is immobilized.
<u>*KIPLING</u> 1690 Tons 1939	:April 17, : 1940	:Two near :misses, :D.A. fuse.	:3 months	:Off Norway - One near miss 30 ft. :abreast boiler room - other 15 ft. :abreast 61 station and burst about :30 ft. under ship. Minor structural :damage. Castings cracked in main :and aux. machinery but ship made :30 kts. for several hours.	:Must have flexible :exhausts from diesel :generators. :Spare lengths of hose :needed to reach from :pumps to any part of :engine room.
<u>*SOMALI</u> 1870 Tons 1938	:May 15, : 1940	:Near miss :by 1000-lb. :bomb, D.A. :fuse.	:14 weeks	:Off Norway. Bomb fell 30 ft. from :side, fracturing plating and :heavily indenting hull. Structural :damage severe forward. Forefoot :displaced. Flooded back to Station :30. Aerials blown down. Ship :steamed 1000 miles at 11½ knots in :calm sea.	:Need more A.A. protection :aft.
<u>IVANHOE</u> 1370 Tons 1937	:June 1, : 1940	:One direct :hit, 2 near :misses, 220 :lb. bombs, :Inst. fuses	:7 weeks	:Dunkirk. Hit just abaft fwd. funnel, :causing structural damage to deck :and bridge structure. Side damaged :by splinters from near misses, both :sides. Boiler rooms 1 and 2 flooded :slowly, out of action.	

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Name of Ship	Date	Attack by	Time out of Action	Remarks	British Notes
<u>*BOADICEA</u>	:June 10,	:Three di-	:	:Off France. One bomb passed through	:
	: 1940	:rect hits,	:	:No. 2 boiler room without exploding.	:
1360 Tons	:	:250 lb.	:	:One exploded in engine room. Main	:
1931	:	:(two),D.A.:	:	:machinery wrecked and severe	:
	:	:fuses -	:	:structural damage in vicinity. No.2	:
	:	:size of	:	:boiler room and engine room flooded	:
	:	:third bomb:	:	:immediately. Steering gear out of	:
	:	:not est.	:	:action. Splinter holes below	:
	:	:	:	:waterline.	:
<u>*BULLDOG</u>	:June 10,	:Three di-	:5 weeks	:Off France. One bomb passed through	:
	: 1940	:rect hits,	:	:engine room, severed main exhaust	:
1360 Tons	:	:110 lb.	:	:pipe and went through side without	:
1931	:	:bombs,D.A.:	:	:exploding. Second bomb came to rest	:
	:	:fuses.	:	:inside No. 3 boiler without explod-	:
	:	:	:	:ing. Third bomb pierced funnel,	:
	:	:	:	:entered No.3 boiler and exploded 10	:
	:	:	:	:minutes later. No.3 boiler room out	:
	:	:	:	:of action and engine room evacuated	:
	:	:	:	:temporarily. (NB-third bomb must	:
	:	:	:	:have had low order detonation after	:
	:	:	:	:being "cooked" in boiler.)	:
<u>FAME</u>	:July 6,	:Near miss	:3 months	:Off Scotstown. Near miss 5 ft. to	:
	: 1940	:200 lbs.	:	:port abreast "Y" gun blew hole in	:
1350 Tons	:	:est.,Inst.:	:	:side and caused severe structural	:
1935	:	:fuse.	:	:damage in vicinity. Serious splinter:	:
	:	:	:	:damage from bridge aft. Cordite	:
	:	:	:	:fires started aft but quickly ex-	:
	:	:	:	:tinguished Telemotor leads and D.G.	:
	:	:	:	:coil cut by splinters. Flooded after:	:
	:	:	:	:magazine, shell room and wardroom.	:

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Name of Ship	Date	Attack by	Time out of Action	Remarks	British Notes
* <u>MONTROSE</u> 1530 Tons 1918	: July 27, : 1940	: Near miss- : es, 500 lb. : bombs, D.A. : fuse.	: About 10 : months.	: Three attacks. Near misses from : 10 yds. abreast after superstructure: : to 150 yds. abreast after torpedo : tubes. Minor structural damage to : decks and bulkheads, and corrugation: : of hull below waterline. Cracked : castings of turbine feet and aux. : machinery. Stbd. shaft seized. : Electric power lost. Radio and : steering gear out of action. Engine : room abandoned due escaping steam.	
<u>WALPOLE</u> 1100 Tons 1918	: July 27, : 1940	: Near miss- : es D.A. : fuses.	: 7 weeks.	: At Dover. Near misses 30 ft. to : port abreast after steering position: : and 30 ft. astern. Cast iron feet of : port H.P. and L.P. turbines broke, : also damage to various aux. : machinery. Temporary loss of elec- : tric power. Speed cut to 10 kts. : Minor buckling of after end up to : bulkhead 97.	
* <u>WINDSOR</u> (Escort Type)	: Aug. 11, : 1940	: Direct hit: : 250 lb. : bomb, D.A. : fuse. : Several : near miss- : es, 25 lb. : bombs. : D.A. fuses.	: 9 weeks	: Direct hit stbd. side aft. on : weather deck, passed through side 3 : feet below waterline and exploded. : After magazine, shell room and ward- : room flooded. Sliding feet of : turbines broke and castings frac- : tured on aux. machinery. Minor : structural damage. One dynamo out of : action. Ship kept speed of 20 knots.	

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Name of Ship	Date	Attack by:	Time out of Action	Remarks	British Notes
<u>ACHERON</u>	:Aug. 24, : 1940	:One direct :hit, 3 :near miss- :es, D.A. :fuses.	:13 weeks :approx.	:At Portsmouth Dockyard. Direct hit :on weather deck aft. burst below :deck and wrecked all structure aft. :of frame 151. Shafts, propellers :and rudder undamaged. After end :flooded. Steering engine destroyed. :"Y" gun out of action. D.G. cable :severed.	
<u>*ATHERSTONE</u> 904 Tons 1940	:Sept. 11, : 1940	:One direct :hit, 250 Kg. :Inst. fuse. :Two di- :rect hits. :50 Kg. :D.A. fuse.	:4 months	:Off Ramsgate. <u>50 Kg.</u> direct hit on :signal deck, passed through fore- :castle deck, out through side and :exploded in sea. <u>50 Kg.</u> direct hit :on signal deck penetrated into No. 1 :boiler room and exploded near hull. :Wrecked boiler room and blew hole :in side - <u>250 Kg.</u> direct hit on :weather deck blew away deck and side :in way of No. 1 boiler room. Severe :splinter damage. Both boiler rooms :flooded immediately. After guns :could be fired only by local control:	
<u>DECOY</u> 1375 Tons 1933	:Nov. 13, : 1940	:Direct hit :100 Kgm., :D.A. fuse.	:10 weeks	:At Alexandria. Bomb hit blast screen :of "X" gun and exploded while pass- :ing through weather deck. Structural :damage within 12 ft. radius of burst. :Serious splinter damage 142-153 :stations. Holes in hull. Fire	:C.O. recommended in- :stallation of operating :rod on sluice valve :between magazine and :shell room leading to :deck over.

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Name of Ship	Date	Attack by	Time out of Action	Remarks	British Notes
<u>DECOY</u> (Cont'd.)				:started in after magazine and mag- azine flooded as precautionary measure. After guns out of action. Telemotor and steering motor leads cut, port side.	
<u>*CAMERON</u> (ex-U.S.S. Welles) 1190 Tons 1919	:Dec. 5, : 1940	:Near miss, :probably :500 Kg. :Inst. fuse:	:16½ months :including :conversion. :	:In dry dock at Portsmouth. Bombs :struck altar of dock abreast 77 :station. Side plating blown in for :70-80 ft. Ship lifted bodily and :turned over on port side. Dock :flooded immediately. Oil fire spread :over entire ship. Subsequent flood- :ing by water and oil caused extensive :secondary damage.	
<u>WITHERINGTON</u> 1120 Tons 1919	:Mar. 11, : 1941	:One direct :hit 50 Kg. :D.A. fuse :One near :miss, 50 :Kg., D.A. :fuse.	:5½ months. :	:During air raid on Portsmouth. :Direct hit on weather deck went :through No. 1 boiler room and burst :below the keel. Plating blown up- :wards and fractured to 16 ft. above :keel. Ship whipped violently, :causing severe buckling around the :girth at 130-135 stations. Both :boiler rooms and some after compart- :ments flooded at once. Near miss :under forward oil tank also fractur- :ed hull at 32 to 36 stations - Ship :towed to mud flats and beached.	

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Name of Ship	Date	Attack by:	Time out of Action	Remarks	British Notes
<u>*HURRICANE</u> (Cont'd.)	:	:	:	:tanks and engine room; slow flood- :ing farther aft. Stern dropped 2½ :ft. Serious damage to machinery and :electrical circuits. After gun out :of action due to flooded magazine.	:
<u>VISCOUNT</u> 1120 Tons 1918	:May 8, : 1941	:Near miss. :250 Kg. :Inst.fuse.	:8 months, :including :conversion.	:Damaged during raid on Merseyside. :Bomb fell close alongside abreast :98 bhd. stbd. Side plating blown :in from bilge keel to sheer strake. :Stbd. bearings of L.P. turbine :twisted. No. 3 boiler wrecked. :Serious damage to aux. machinery. :Engine room and after boiler room :flooded. Minor splinter damage.	:Vessel would :probably have :foundered if towed :in bad weather.
<u>FORTUNE</u> 1350 Tons 1935	:May 10, : 1941	:Near miss- :es. D.A. :fuse.	:6 months, :including :conversion.	:In Mediterranean. One burst about :20 ft. under the stern. Hull split :and plating buckled 23 ft. each side :of split, stbd. side; on port side, :plating buckled from keel to sheer :strake. Severe internal damage. :After magazines and shell room :flooded. Minor flooding in engine :room. Stbd. engine efficiency :reduced by bent shafting and damaged :structure.	:More timber needed :for shoring. Pumping :facilities inadequate. :Emergency jumping :ladders should be :fixed under escape :hatches. :Portable connection :required between oil :tank suction line :and bilge pumps for :emergency pumping. :Strainer boxes choked :(above from C.O.'s report).

BOMB DAMAGE
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Name of Ship	Date	Attack by	Time out of Action	Remarks	British Notes
<u>KELVIN</u> 1690 Tons 1939	:May 30, : 1941.	:One or two: :near miss-: :es,250 Kg., :D.A. fuses:	:6 months.	:In Mediterranean. Near miss 10 ft. :off stbd. side aft, exploded under :stern. Outer bottom and internal :structure badly buckled from 83 bhd.: :to keel knuckle. After end dropped :slightly, disorting port shaft. Slid- :ing foot of one H.P. turbine broke. :Minor damage forward. After guns out: :of action due to flooding.	:Ship returned to port :(150 miles) at :21 knots.
<u>NAPIER</u> 1690 Tons 1939	:May 31, : 1941	:2 near :misses, :25- Kg. :4 near :misses, :100 Kg-All: :D.A.fuses.:	:Unknown	:250 Kg. near miss at 10 ft; others :at unreported distances. Minor :structural damage, but extensive :damage to main and aux. machinery. :Fixed and sliding feet of both H.P. :turbines fractured. Fuel oil pumps :fractured, spraying oil over No. 2 :boiler room and putting it temporar- :ily out of action.	:Speed cut to 24 knots.
<u>ISIS</u> 1370 Tons 1937	:June 15, : 1941	:Direct hit: :no details:	:9 months	:Hit in boiler room. Side plating :blown inboard(?) and fractured be- :tween keel and lower deck, stations :40 to 64. Serious damage to decks :and bulkheads in this region. Minor :damage forward. Deck and side severely :buckled aft, 131 to 138 stations; :3 propeller shafts bent and stern :probably dropped. No. 1 boiler room :and forward fuel oil tank flooded. :Ship immobilized and out of action.	

DESTROYERS - MAJOR DAMAGE

BOMB DAMAGE

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Name of Ship	Date	Attack by:	Time out of Action	Remarks	British Notes
<u>ILEX</u>	June 15, 1941	No details:	Unknown.	Attacked by French aircraft. No details of structural damage available. Serious flooding amidships, including boiler rooms. Out of action and taken in tow.	
1370 Tons 1937			(Durban and U.S.A.)		
<u>*VANESSA</u>	June 19, 1941	Direct hit:	8 months.	Penetrated sheer strake and burst in: No. 1 boiler room close to ship's bottom. Hole in shell 6x9 ft. Outer bottom plating blown upwards. Weather deck split along centerline over machinery spaces and blown upwards. Two boiler rooms flooded. Main engines out of action by loss of steam. No. 1 boiler exploded. No. 2 boiler severely damaged. Forward funnel blown overboard. Radio destroyed and D.G. out of action.	
1090 Tons 1918		100 Kg., D.A. fuse.			
<u>WATERHEN</u>	June 29, 1941	Near miss:	Sunk next day.	Off Tobruk. Bombs fell close along side. Wheel jammed, ship listed, boiler fires blown out. Hole 8 ft. long below waterline in way of engine room and oil tank, which flooded at once. Severe structural damage caused flooding aft. Ship abandoned with heavy list to stbd.; later boarded and taken in tow.	
(H.M.A.S.) 1100 Tons 1918		es. No details.			

BOMB DAMAGE

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Name of Ship	Date	Attack by:	Time out of Action	Remarks	British Notes
* <u>FIRE</u> <u>DRAKE</u>	July 23, 1941	One near miss, 100 Kg., Inst. fuse.	6 months.	Miss close alongside No. 1 boiler room, tore side and blew it inwards from deck to bilge keel, 67 to 80 stations. Minor splinter damage. Boiler rooms 1 and 2 flooded. No. 1 boiler lifted 19 inches on one side. Ship immobilized temporarily by loss of feed to No. 3 boiler. Ring main (electrical) fractured, stbd. Gyro out of action. Raised steam and made 9 knots.	
1350 Tons 1935					

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>MOHAWK</u> 1870 Tons	1939	:16 Oct. 1939 : : : :	:2 near misses, inst. :fuse. : : :	:Both bombs 45' to stbd. Damage mainly :by splinters. All control and gun :circuits out of action. Many :casualties stress need of splinter :protection.
<u>KIMBERLEY</u> 1690 Tons	1939	:April 14, 1940 : : : :	:Not reported. : : : :	:Minor damage from splinters. :Fighting efficiency unimpaired.
<u>GREYHOUND</u> 1335 Tons	1936	:April 18, 1940 : : : :	:Not reported. : : : :	:Minor damage to forecastle and :mess deck. Shield and supports :for 'A' gun slightly buckled. :One month to repair.
<u>ASHANTI</u> 1870 Tons	1938	:April 28, 1940 : : : :	:Near misses, both :inst. and D.A. fuses. : : :	:Off Norway. Castings cracked one :dynamo. Splinter damage. Leaks :in oil fuel tanks (one bomb :abreast tank) 3 weeks out of :action.
<u>WITHERINGTON</u> 1120 Tons	1919	:April 29, 1940 : : : :	:One near miss, inst. :fuse. : : :	:Minor splinter damage. 3 days :out of action
<u>WREN</u> 1120 Tons	1919	:April 31 to :May 16, 1940. : : :	:Not reported. : : : :	:Off Norway. Minor damage. No time :out of action.

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>MAORI</u> 1870 Tons	1939	:May 2, 1940 : : : :	:Stick of 6 20-lb. :bombs, all near :misses, inst. fuses. : : : :of action.
<u>WHITSHED</u> 1120 Tons	1919	:May 10, 1940	:Not reported. :Director and steering gear damaged.
<u>HESPERUS</u>		:May 12, 1940 : :	:3 near misses, clos- :Off Norway. Minor damage aft; side :est one 20 yards off :plating and bulkheads buckled. :stbd. quarter. :Four weeks out of action.
<u>VERSATILE</u> 1090 Tons	1918	:May 13, 1940 : : : : :	:One direct hit, :Hole in upper deck, minor structural :several near misses, :and splinter damage. Steam pipe to :50 lb. bombs, inst. :after auxiliaries burst. Ship immobilized. :fuses. Machine gun :1/3 of personnel casualties, mainly :attack. :from machine gun bullets. One month : :out of action.
<u>WIVERN</u> 1120 Tons	1919	:May 14, 1940 : : : : :	:Near miss, 500 lb. :Off Holland. Splinter holes through :bomb, inst. fuse. :side! Serious cordite fire at "X" and : : : : : : :parties. 4 weeks out of action.

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>WINCHESTER</u> (escort type) 900 Tons 1918	:May 15, 1940 : : :	:Six near misses, 500 :lb. bombs, both inst. :and D.A. fuses. :	:Dropped 50 to 100 yds. from ship. Minor :structural damage. Severe machinery :damage by failure of cast iron. Ship :immobilized. Four weeks out of action.
<u>WIVERN</u> 1120 Tons 1919	:May 15, 1940 :	:Near miss, Inst. :fuse.	:Splinter damage. Wardroom wrecked. :Ship seaworthy. Out of action 5 weeks.
<u>MALCOLM</u> 1530 Tons 1918	:May 20, 1940 : : : :	:Ten near misses, :Inst. fuses. : : :	:4 abreast bridge, nearest 20 yds; :6 aft, nearest 5 yds. Splinter :damage. Minor fires. Radio aerials :and degaussing cable cut by splinters. :4 days out of action.
<u>VANSITTART</u> 1120 Tons 1919	:May 21, 1940 : :	:Not reported. : :	:Structural damage aft. All instruments :and circuits to after guns burnt. One :month out of action.
<u>KEITH</u> 1400 Tons 1930	:May 21, 1940 : :	:Several near misses, :500 lbs. inst. fuses :Machine gun attack.	:At Dunkirk. Average near miss, 20 yards. :Minor damage from splinters and :machine gun bullets.
<u>WILD SWAN</u> 1120 Tons 1919	:May 22, 1940 :	:Near miss, inst. fuse. :	:Off Boulogne. Minor damage by :splinters. One week out of action.

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>KEITH</u>	1400 Tons	1930	:May 23, 1940	:Near miss, 50 lb. :At Boulogne. Minor structural damage
			:	:bomb, inst. fuse. :to forecastle deck. Upper works
			:	:Machine gun attack. :generally riddled with bullets and
			:	:splinters. Six days out of action.
<u>VENEMOUS</u>	1120 Tons	1919	:May 23, 1940	:Near miss, D.A. fuse. :Off Boulogne. Bomb 20 ft. off stbd.
			:	:quarter. Slight damage to shaft.
			:	:Minor structural and splinter damage.
<u>FAME</u>	1350 Tons	1935	:May 23, 1940	:One near miss, D.A. :Bomb 10-20 yds. off port quarter,
			:	:fuse. :lifted stern. Steering motors siezed
			:	:up. Need for even and firm tightening
			:	:of holding down bolts to aux. machinery.
			:	:No repair period.
<u>FIREDRAKE</u>	1350 Tons	1935	:May 23, 1940	:Near miss. :At Narvik. Bomb 20 ft. from ship.
			:	:Splinter holes above and below
			:	:waterline. No repair period.
<u>VIMIERA</u> (escort type)	900 Tons	1917	:May 24, 1940	:Near misses, 110 lbs., :Explosions beneath ship. Minor
			:	:D.A. fuses. :straining of structure. Roller paths
			:	:of after guns distorted slightly.
			:	:Governor valve gear box on generators
			:	:cracked and all power failed. 10 days
			:	:out of action.

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>WOLFHOUND</u>	1100 Tons	1918	:May 27, 1940	:Four near misses, :Off Belgium. Nearest miss 20 ft.
			:	:250 lbs., D.A. fuses. :No structural damage. Dynamo feet,
			:	:cast iron, cracked. 10 days out of
			:	:action.
<u>WHIRLWIND</u>	1100 Tons	1917	:May 27, 1940	:Not reported. :Minor damage reduced speed temporarily.
			:	:No repair period.
<u>WALKER</u>	1100 Tons	1918	:May 27, 1940	:Not reported. :Minor structural damage. Cast iron
			:	:feet of dynamo fractured. 10 days
			:	:out of action.
<u>WINDSOR (escort type)</u>	900 Tons	1918	:May 28, 1940	:Not reported. :Minor damage to hull and aerals.
			:	:No repair period.
<u>GREYHOUND</u>	1335 Tons	1936	:May 29, 1940	:Two near misses, :At Dunkirk. Both bombs 6 ft. from
			:	:Inst. fuses. :side. Much fragment damage. Ship
			:	:immobilized by loss and contamination
			:	:of feed water. 3 weeks out of action.
<u>JAGUAR</u>	1690 Tons	1939	:May 29, 1940	:Four near misses, :At Dunkirk. Bombs about 10 yds. off
			:	:250 lbs., Inst.fuses. :port beam. Much splinter and bullet
			:	:Machine gun attacks. :damage. Engine room and steering
			:	:gear out of action due to damaged
			:	:steam pipes. 16 days out of action.

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>GALLANT</u>				
1335 Tons	1936	:May 29, 1940	:Near miss, Inst.	:At Dunkirk. Miss 100 yds. off stern.
		:	:fuse.	:Splinter damage and flooding aft.
		:	:	:Primary steering inoperative. One
		:	:	:week out of action.
<u>INTREPID</u>				
1370 Tons	1937	:May 29, 1940	:Near miss, Inst. fuse.	:Dunkirk. Hit abreast 'B' gun
		:	:	:pierced main steam line in boiler
		:	:	:room. All five control circuits
		:	:	:out of action. Fires started and
		:	:	:magazines fwd. flooded. Aux.
		:	:	:machinery damaged by splinters. 2
		:	:	:weeks out of action.
<u>SALADIN</u>				
905 Tons	1919	:May 29, 1940	:Not reported.	:Dunkirk. Minor structural damage
		:	:	:by splinters. Ready-use cordite
		:	:	:caught fire. 11 days out of action.
<u>ANTHONY</u>				
1350 Tons	1930	:May 30, 1940	:Not reported.	:Dunkirk. Turbine feet cracked.
		:	:	:Ship towed to port. 2 weeks out of
		:	:	:action.
<u>BEAGLE</u>				
1360 Tons	1931	:May 30, 1940	:Near miss, 250 lb.	:Dunkirk. Bomb hit 12 yds. abreast
		:	:bomb.	: 'A' gun. Balance weight on gun
		:	:	:sheared off.
<u>SABRE</u>				
905 Tons	1919	:May 30, 1940	:Not reported	:Dunkirk. Minor fire damage followed
		:	:	:bombing. No repairs.

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>EXPRESS</u> 1375 Tons	1934 :May 31, 1940 :	:Not reported. :	:Dunkirk. Superficial splinter :damage. One week out of action.
<u>WORCESTER</u> 1120 Tons	1922 :June 1, 1940 :	:Not reported. :	:Dunkirk. Minor splinter damage :followed by collision. 6 weeks :out of action.
<u>VIVACIOUS</u> 1090 Tons	1917 :June 1, 1940 :	:Not reported. :	:Dunkirk. Minor damage. One week :out of action.
<u>SABRE</u> 905 Tons	1919 :June 2, 1940 :	:Not reported. :	:Dunkirk. Minor damage. One week :out of action.
<u>ESK</u> 1375 Tons	1934 :June 3, 1940 :	:Not reported. :	:Dunkirk. Splinter damage in way :of oil tanks. 8 days out of action.
<u>FIREDRAKE</u> 1350 Tons	1935 :June 12, 1940 :	:Near miss. :	:Hit 20 ft. from side; splinter :damage above and below waterline. :Port steering motor damaged. One :week out of action.
<u>FAME</u> 1350 Tons	1935 :June 12, 1940 :	:Near miss. :	:Minor splinter damage. 'A' gun :out of action. One week to repair.

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>BEAGLE</u> 1360 Tons	1931	:June 12, 1940 :	:Near miss. :	:Minor structural damage. 'A' gun :out of action. 4 days to repair.
<u>WALKER</u> 1100 Tons	1918	:June 12, 1940 :	:Near misses. :	:Minor damage to aux. machinery. :Oil tank leak and shaft vibration. :12" days out of action.
<u>DIAMOND</u> 1375 Tons	1932	:June 17, 1940 :	:Near miss. :	:Minor splinter damage. No repair :period.
<u>JERVIS</u> 1690 Tons	1939	:July 3, 1940 :	:Not reported. :	:Off Malta. No details. No time out :of action.
<u>HAVOCK</u> 1340 Tons	1937	:July 19, 1940 :	:Not reported. :	:In Mediterranean. Hull damaged abreast :No. 2 boiler room. Minor damage to :boiler feet and aux. machinery; minor :flooding from strained rivets. :8 weeks out of action.
<u>GRIFFIN</u> 1335 Tons	1936	:July 19, 1940 :	:Near miss. 250 lb. :bomb, D.A. fuse. :	:Structural damage to hull from stem :to 33 station, both sides. Slow :flooding forward. Speed cut to 20 :knots. 2 weeks out of action.

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE

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Destroyers	Date	Attack by	Remarks
<u>BEAGLE</u> 1360 Tons	1931	:July 19, 1940 : : : :	:Near misses 250 lb. :and 50 lb. mixed. :D.A. fuses. : : : :room out of action.
<u>BEAGLE</u> 1360 Tons	1931	:July 20, 1940 : : : :	:Same as on July 19th. : : : : :Off Dover. Near misses 10-20 yds. :Strained at frame 61 and leaks in No. 1 :boiler room. Port steering unit :damaged. 3 weeks out of action from :attacks on 19 and 20th.
<u>SCIMITAR</u> 905 Tons	1919	:Aug. 11, 1940 : : :	:10-15 near misses, :inst. fuses. : : : :Portland Harbor. Nearest miss was :20 yds. Minor fires and splinter :holes in hull. D.G. cable cut. 4 :days out of action.
<u>SKATE</u> 900 Tons	1918	:Aug. 11, 1940 :	:Not reported. : :Minor damage to bridge structure :during air raid on Portland.
<u>ESK</u> 1375 Tons	1934	:Aug. 11, 1940 : :	:Not reported. : : :4 near misses damaged rudder. :One week out of action, inc. :other work.
<u>WATCHMAN</u> 1100 Tons	1918	:Aug. 12, 1940 :	:Not reported. : :Minor damage from near misses :loosened strut arms.

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Destroyers		Date	Attack by	Remarks
<u>BULLDOG</u> 1360 Tons	1931	:Aug. 24, 1940	:Not reported.	:Splinter damage during air raid :on Portsmouth. 9 days out of action.
<u>BEAGLE</u> 1360 Tons	1931	:Aug. , 1940	:Not reported.	:Minor damage off Portland Bill. :6 days out of action.
<u>CATTISTOCK</u> 904 Tons	1940	:Nov. 10, 1940	:Near miss.	:Superficial splinter damage. One :day out of action.
<u>FORESIGHT</u> 1350 Tons	1935	:Dec. 22, 1940	:Near miss.	:During air raid on Liverpool. :Minor damage to hull and :superstructure forward.
<u>CASTLETON</u> (ex-U.S.S. Aaron Ward) 1090 Tons	1919	:Jan. 18, 1941	:Near miss.	:In drydock at Portsmouth. :Superficial splinter damage.
<u>BOREAS</u> 1360 Tons	1931	:Jan. 19, 1941	:Near miss.	:Superficial splinter damage while :at Millwall Docks, London, undergoing :repair of damage of July 25, 1940.
<u>DECOY</u> 1375 Tons	1933	:Jan. 19, 1941	:One direct hit, est. :500 Kg., D.A. fuse.	:At Malta under repair. Bomb passed :through deck and out side above

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>DECOY</u> (Cont'd.)				:waterline, and exploded in water. Fore :end severely shaken. Minor structural :damage. 'A' gun support buckled and :loading arm fractured. Asdic out of :action.
<u>ST. LAURENT (R.C.N.)</u> 1390 Tons	1931	:Feb. 14, 1941	:Near miss.	:Minor structural damage and slight :leakage. No repair period.
<u>STUART (H.M.A.S.)</u> 1530 Tons	1918	:Feb. 19, 1941	:Four near misses, :D.A. fuses.	:Off Benghazi. Stern whipped, one :dynamo tripped. No repair period.
* <u>SHERWOOD (ex-U.S.S.</u> "Belmont") 1190 Tons	1919	:March 10, 1941	:Two near misses, :inst. fuses.	:During air raid on Portsmouth. :Misses 20 to 30 ft. away. Minor :splinter damage and slight flooding.
<u>TYNEDALE</u> 904 Tons	1940	:March 11, 1941	:Three near misses, :D.A. fuse.	:During air raid on Portsmouth. :Minor splinter damage. Cast iron feet :of one turbine broken, and minor :damage to aux. machinery. 9 days out :of action.
<u>CATTISTOCK</u> 904 Tons	1940	:March 3, 1941	:Near miss. No de- :tails.	:Minor defects. 5 days out of action.

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>ANTHONY</u> 1350 Tons 1930	:March 16, 1941	:Near miss. No de- :tails.	:Damaged while under repair at :Clyde Bank. Superficial splinter :damage only.
<u>LEWES</u> (ex-U.S.S. Wickes) 1090 Tons 1918	:March 23, 1941	:Near misses.	:Damaged while under repair. One near :miss close to stern and several others :around ship caused splinter damage to :structure and to machinery.
<u>GRIFFIN</u> 1335 Tons 1936	:March 23, 1941	:One near miss. Inst. :fuse.	:Superficial splinter damage penetrated :oil tanks above the waterline.
<u>FORESTER</u> 1350 Tons 1935	:March 30, 1941	:One near miss.	:Minor damage and fuel tank leakage. :One month out of action.
<u>QUORN</u> 904 Tons 1940	:April 1, 1941	:Two near misses. :D.A. fuses.	:Both bombs exploded underwater :about 20 yds. off the port quarter. :Four keels to turbine feet broke. :No repair period.
<u>WILD SWAN</u> 1120 Tons 1919	:April 20, 1941	:Near miss.	:During raid on London. Minor blast :damage. Oil tanks leaking.
<u>GREYHOUND</u> 1335 Tons 1936	:April 23, 1941	:Near misses.	:Damaged slightly at Mersa-Matruh. No :repair period.

DESTROYERS - MINOR DAMAGE

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>NUBIAN</u> 1870 Tons	1939	:April 29, 1941	:Two near misses. :Distances 10 and 20 ft. off bow. :Minor structural damage. Hull :buckled and distorted forward of 36 :station. No repair period.
<u>SOUTHDOWN</u> 904 Tons	1940	:April 5, 1941	:Two near misses, :Misses 10 to 30 yds. astern. One steering :250 Kg., D.A. fuses. :motor badly damaged. Turbine holding- :down bolts bent. Slight leakage to :magazines. No repair period.
<u>VOLUNTEER</u> 1120 Tons	1919	:May 5, 1941	:Near misses. :At Belfast. Extensive but not serious :splinter damage above waterline.
<u>WHADDON</u> 904 Tons	1940	:May 8, 1941	:Near misses. :Under repair in Tyne. Splinter damage.
<u>VIVACIOUS</u> 1090 Tons	1917	:May 8, 1941	:Near misses. :Under repair in Tyne. Splinter damage.
<u>RIPLEY (Ex U.S.S. Tillman)</u> 1090 Tons	1919	:May 12, 1941	:Near misses. :Splinter damage caused cordite fire :on weather deck.
<u>ANTHONY</u> 1350 Tons	1930	:May 13, 1941	:Near misses. :Air raid on Glasgow district. Super- :ficial splinter damages.

BOMB DAMAGE
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Destroyers		Date	Attack by	Remarks
<u>ILEX</u>	1370 Tons	1937	:May 24, 1941	:Near miss, D.A. fuse. :Crete evacuation. Near miss under
			:	:stern damaged propellers and rudder.
			:	:Hit again June 15th.
<u>IMPERIAL</u>	1370 Tons	1937	:May 21, 1941	:5 near misses. Type :Superficial splinter damage aft.
			:	:not known. :No repair period.
<u>NIZAM</u>	1690 Tons	1939	:May 29, 1941	:One near miss, 250 :15 ft. off port quarter. Minor
			:	:Kg., D.A. fuse. :structural damage and leaks. Port
			:	:plummer (thrust) block out of alignment.
<u>DECOY</u>	1375 Tons	1932	:May 29, 1941	:5 near misses, D.A. :Engine room bulkheads slightly buckled.
			:	:fuses. :Cast iron feet of L.P. turbines broke.
			:	:Minor damage to aux. machinery. Speed
			:	:reduced to 26 knots.
<u>JACKAL</u>	1690 Tons	1939	:June 15, 1941	:Direct hit, 500 Kg., :Off Syria. Bomb hit edge of deck,
			:	:D.A. fuse. :deflected into sea. Explosion caused
			:	:minor damage to hull.
<u>DECOY</u>	1375 Tons	1935	:July 9, 1941	:One near miss. No :Minor damage to side. Leaks into oil
			:	:details. :tanks and to boiler room. Minor
			:	:damage to aux. machinery.
<u>GARTH</u>	904 Tons	1940	:July 23, 1941	:Near miss, D.A. fuse. :Keeps to 4 turbine feet fractured.

DESTROYERS - LOST

BOMB DAMAGE
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Destroyers	Date	Attack by	Remarks
<u>GHURKA</u> 1870 Tons	1937	:April 9, 1940	:Six near misses, from:Off Norway. Flooded engine room and :150 yds to alongside.:other comp'ts. aft. Fuel oil fire under : : : :after superstructure; ship listed. When : : : :fuel was pumped overboard, ship sank. : : : :NOTE: Stability was lost when oil pumped : : : :to correct list.- a dangerous practice : : : :in destroyers.
<u>AFRIDI</u> 1870 Tons	1937	:May 3, 1940	:2 direct hits, D.A. :Off Norway. 1st bomb exploded in boiler : : : :fuses. :room blowing hole in hull. Fire in radio : : : : : :room. 2nd bomb blew in hull forward : : : : : :and fire started in mess decks. Ship : : : : : :capsized and sank bow first 46 minutes : : : : : :after 1st hit.
<u>VALENTINE</u> 900 Tons	1917	:May 15, 1940	:One direct hit and :Direct hit down funnel, wrecked No. 2 : : : :one near miss, 250 :boiler room, flooded engine and No. 1 : : : :lb. bombs, Inst. fuse:boiler rooms. Near miss blew hole 20 ft. : : : : : :in diameter in side forward. Magazine : : : : : :did not explode but cordite fire started. : : : : : :Ship beached off Holland and abandoned.
<u>WHITLEY</u> 900 Tons	1918	:May 19, 1940	:Not reported. :Beached.
<u>WESSEX</u> 1100 Tons	1918	:May 24, 1940	:Not reported. :Sunk. No details available.

BOMB DAMAGE

~~CONFIDENTIAL~~

Destroyers		Date	Attack by	Remarks
<u>GRENADE</u>				
1355 Tons	1935	:May 29, 1940	:Not reported.	:Sunk. Attacked at Dunkirk, set afire, :later sank.
<u>BASILISK</u>				
1360 Tons	1930	:June 1, 1940	:Direct hits and :several near misses.	:Off La Panne. Direct hit aft put No. 3 :boiler room out of action. Further :hits and near misses sank ship.
<u>HAVANT</u>				
1340 Tons	1939	:June 1, 1940	:Several direct hits.	:Dunkirk. No details.
<u>KEITH</u>				
1400 Tons	1930	:June 1, 1940	:Several direct hits :and near misses.	:Off Bray. 2 hits in machinery spaces :immobilized ship. Listed to port. :Second attack lifted stern and ship :capsized.
<u>KHARTOUM</u>				
1690 Tons	1939	:June 26, 1940	:Suspected air attack.	:In Red Sea. Internal explosion burst :torpedo air flask, warhead discharged :aft as a projectile. After magazine :and 4 warheads exploded. Fire started aft.
<u>BRAZEN</u>				
1360 Tons	1930	:July 20, 1940	:Near misses, mixed :sizes. D.A. and Inst. :fuses.	:Off Dover. One burst close to port beam :under keel, another close alongside on :the surface, others at unknown positions. :Severe hull damage amidships, keel :split. Major splinter damage amidships.

DESTROYERS - LOST

BOMB DAMAGE
~~CONFIDENTIAL~~

Destroyers		Date	Attack by	Remarks
<u>BRAZEN</u> (Cont'd.)				:Boiler and machinery spaces flooded :rapidly. Broke in two while being :towed and after end sank. Fore end :destroyed by gunfire.
<u>WREN</u> 1120 Tons	1919	:July 27, 1940	:Two direct hits or :very near misses. :D.A. fuses. Many :other near misses. :Probably 500 lbs.	:Hits starboard side abreast wardroom :severely damaged all structure abaft :the engine room. Ship broke in two :and both halves sank.
<u>*CODRINGTON</u> 1530 Tons	1930	:July 27, 1940	:Not reported.	:In Dover Harbor. Hit at after end :broke the ship's back and grounded :from No. 3 gun to the stern. No :further details.
<u>DELIGHT</u> 1375 Tons	1932	:July 29, 1940	:Direct hit and near :misses.	:Off Portland Bill. One bomb struck :forecastle glancing blow, causing :serious splinter damage to ship's side. :Serious fire started, fed by oil from :damaged tanks. Lights failed and main :steam line broke. Forward magazines :believed flooded, but ship sank following :big explosion forward.

BOMB DAMAGE
CONFIDENTIAL

Destroyers	Date	Attack by	Remarks
<u>DAINTY</u>			
1375 Tons	1933	:Feb. 24, 1942	:One direct hit, est. :Off Toburk. Hit on weather deck aft,
		:	:500 Kg., very short :exploded on or near next deck.
		:	:delay, possibly :Severe structural damage.
		:	:incendiaries attached:Port side opened up and weather deck
		:	:blown off. Serious oil fire aft,
		:	:eventually under control. Air flasks
		:	:of torpedoes appear to have burst;
		:	:warheads and depth charges burst open
		:	:and burned. Main engines O.K. Violent
		:	:explosion aft broke ship in two
		:	:(probably warhead magazine).
<u>DIAMOND</u>			
1375 Tons	1932	:April 27, 1941	:Direct hits, from six:Evacuation of Greece. Ship sank
		:	:Junkers 88's. :immediately.
<u>WRYNECK (escort type)</u>			
900 Tons	1918	:April 27, 1941	:Direct hits, from :Evacuation of Greece. Ship sank in
		:	:six Junkers 88's. :4 minutes.
<u>JUNO</u>			
1690 Tons	1939	:May 21, 1941	:Direct hit(s) by :Crete evacuation. No details available.
		:	:dive bomber(s). :
<u>GREYHOUND</u>			
1335 Tons	1936	:May 22, 1941	:Direct hit(s) by :Crete evacuation. No details available.
		:	:dive bomber(s). :
<u>KELLY</u>			
1690 Tons	1939	:May 23, 1941	:Direct hit(s) by :Crete evacuation. No details available.
		:	:dive bomber(s). :

DESTROYERS - LOST

BOMB DAMAGE

~~CONFIDENTIAL~~

Destroyers	Date	Attack by	Remarks
<u>KASHMIR</u> 1690 Tons	1939	:May 23, 1941 :Direct hit(s) by :dive bomber(s).	:Crete evacuation. No details available.
<u>*MASHONA</u>	:May 28, 1941	:One very near miss, :100 Kg., Inst. fuse - :many other near miss- :es. Wreck was sunk by :gunfire from H.M. :ships.	:Hole 14x5 ft. blown in side in way of :No. 1 boiler room. Extensive splinter :damage to steam and feed lines. :3 boiler rooms eventually flooded. :Minor fire in 'B' magazine. All lighting :lost. Steering disabled. Power failed :as boiler room flooded slowly. Ship :capsized and floated bottom up, :flooded from bulkheads 30 to 98. This :case emphasized disadvantage of lining :ship's side in vicinity of the water- :line (which makes it difficult to plug :splinter holes). Linings were removed :in H.M. Navy but later ordered replaced.
<u>HEREWARD</u> 1340 Tons	1936	:May 29, 1941 :Direct hit(s).	:Crete evacuation. No details available.
<u>WATERHEN (H.M.A.S.)</u> 1100 Tons	1918	:June 30, 1941 : :	: : : :See May 29th under "Major damage." :List increased and ship capsized :and sank while being towed.
<u>DEFENDER</u> 1375 Tons	1932	:July 11, 1941 :Direct hit - no :details.	:Off Tobruk. Hit in machinery spaces :flooded engine and after boiler rooms. :Back probably broken; listed heavily :and sank while being towed.

BOMB DAMAGE
~~CONFIDENTIAL~~

Monitors		Date	Attack by	Remarks
<u>TERROR</u>				
7200 Tons	1916	:Feb. 22, 1941	:Benghazi. 3 near	:Severe internal damage and
		:	:misses, D.A. fuses,	:flooding.
		:	:est. 250 Kg.	:
<u>TERROR</u>				
7200 Tons	1916	:Feb. 23, 1941	:Derna. Near misses	:Severe. Ship abandoned.
		:	:close aboard. D.A.	:Sunk by British.
		:	:fuses.	:
* <u>MARSHAL SOULT</u>				
6400 Tons	1915	:March 10, 1941	:Portsmouth. Direct	:Moderate damage.
		:	:hit, 50 Kg., Inst.	:
		:	:fuse.	:

MISCELLANEOUS CRAFT

BOMB DAMAGE
CONFIDENTIAL

Sloops, Corvettes, Minesweepers. :	Date :	Attack :	Remarks
* <u>PELICAN</u> Escort Type Sloop 1938	:April 22, 1940 : : : :	:Norway. One direct :hit, D.A. fuse; 2 :near misses, Inst. :fuses. All est. :250 lb.	:Severe damage 7 months. : : : :
<u>AUKLAND</u> Escort Type Sloop 1938	:April 24, 1940 :	:Near miss; Inst. :fuse.	:Splinter damage. :
<u>BLACK SWAN</u> Escort Type Sloop 1939	:April 28, 1940 :	:Norway. Direct hit :D.A. fuse.	:Passed through ship, :exploded underneath. 5 weeks.
<u>BITTERN</u> Escort Type Sloop 1937	:April 30, 1940 :	:Namsos. Direct hit, :500 lb. Inst. fuse.	:Sunk. :
* <u>HUSSAR</u> Minesweeper 1934	:May 15, 1940 :	:North Sea. Direct :hit, Inst. fuse.	:Moderate damage 6 weeks. :
* <u>HARRIER</u> Minesweeper 1934	:May 25, 1940 : :	:Zeebrugge. Direct :hit, 250 Kg., D.A. :fuse; 2 near misses.	:Moderate damage 7 weeks. :Direct hit passed through :ship.
* <u>BIDEFORD</u> Escort Type Sloop 1931	:May 29, 1940 : :	:Dunkirk. Two direct :hits, D.A. fuses, :250 lb. bombs.	:Serious damage. : :

BOMB DAMAGE
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Sloops, Corvettes, Minesweepers. (Cont'd.)	Date	Attack	Remarks
<u>PANGBOURNE</u> Minesweeper 1917-19	:May 29, 1940 :	:Dunkirk. Near miss- :es. D.A. fuses.	:Slight. 3 weeks. :
<u>KELLETT</u> Minesweeper 1917-19	:May 30, 1940 :	:Dunkirk. Near miss- :es, Inst. fuses.	:Slight. 2 weeks. :
<u>HERE</u>	:May 31, 1940 :	:Dunkirk. Probably :near misses.	:Slight. 5 days. :
<u>MOSQUITO</u> Gunboat 1940	:June 1, 1940	:Dunkirk. No details.	:Sunk.
<u>SALAMANDER</u> Minesweeper 1936	:June 1, 1940	:Dunkirk. No details.	:Serious. 6 weeks.
<u>SKIPJACK</u> Minesweeper 1934	:June 1, 1940 :	:Dunkirk - direct :hits.	:Sunk. :
<u>*FOXGLOVE</u> Escort Type Sloop 1915	:July 9, 1940 : : : :	:Portsmouth. 3 :direct hits; 110-lb. :Inst. 500 lb. Inst. :110 lb. D.A. fuses. :Also 2 near misses.	:Serious and extensive. : : : :
<u>GUILLEMOT</u> Patrol Type Sloop 1939	:July 30, 1940 :	:250 lb. near miss. :D.A. fuse.	:Slight. :

MISCELLANEOUS CRAFT

BOMB DAMAGE

~~CONFIDENTIAL~~

Sloops, Corvettes, Minesweepers.: (Cont'd.)	Date	Attack	Remarks
<u>TELWORTH</u> Minesweeper 1917-19	:July 30, 1940 :	:Dover. Near misses, :Inst. fuses.	:Moderate. 11 weeks. :
<u>KINGFISHER</u> Patrol Type Sloop 1935	:Aug. 14, 1940 :	:Near misses, Inst. :fuses.	: :
* <u>MALLARD</u> Patrol Type Sloop 1936	:Sept. 30, 1940 : : :	:North Sea. Direct :hit. 50 Kg.; 2 near :misses; all D.A. :fuses.	:Direct hit passed through :ship, exploded beneath. :Severe damage. 9 months.
<u>ANEMONE</u>	:Oct. 28, 1940 :	:Liverpool. Near :miss.	:Slight. :
* <u>PINTAIL</u> Patrol Type Sloop 1939	:Nov. 1, 1940 : :	:North Sea. 2 direct :hits, one Inst. and :one D.A. fuse.	:Severe - 4½ months. : :
<u>EGRET</u> Escort Type Sloop 1200 Tons 1938	:Nov. 7, 1940 :	:Thames. Near miss, :Inst. fuse.	:Slight. 1 week. :
<u>SALTBURN</u> Minesweeper 1917-19	:Jan. 9, 1941 : :	:Portsmouth dockyard. :Near miss. Type :unknown.	:Nil : :

BOMB DAMAGE
CONFIDENTIAL

Sloops, Corvettes, Minesweepers.: (Cont'd.)	Date	Attack	Remarks
<u>HUNTLY</u> Minesweeper 1917-19	:Jan. 31, 1941 :	:Tobruk. Direct hits, :D.A. fuses.	:Sunk. :
<u>BRAMBLE</u> Patrol Type Sloop 1938	:Feb. 20, 1941 :	:Harwich. Direct hit. :250 Kg. Dud.	:Slight. 4 days. :
<u>BRITOMART</u> Patrol Type Sloop 1938	:Mar. 15, 1941 :	:Rye Harbour. Direct :hit, 100 Kg. D.A. :fuse.	:Moderate. 2½ months. : :
<u>STOKE</u> Minesweeper 1917-19	:Apr. 30, 1941 :	:Near miss. Size and :type unknown.	:Slight. 2 weeks. :
<u>ERNE</u> Escort Type Sloop 1940	:Apr. 30, 1941 :	:North Sea. Direct :hit, 100 Kg. D.A. :fuse. 2 near misses. :D.A. fuses.	:Moderate. : : :
<u>FERMOY</u> Minesweeper 1917-19	:Apr. 30, 1941 : : : :May 1, 1941 : :	:Malta. Direct hit. :Size and type un- :known. :- - - - - :Malta. Direct hit. :Size and type un- :known.	: : : : :Wrecked beyond repair. : :

MISCELLANEOUS CRAFT

BOMB DAMAGE
~~CONFIDENTIAL~~

Sloops, Corvettes, Minesweepers.:	Date	Attack	Remarks
* <u>SELKIRK</u> Minesweeper 1917-19	:May 4, 1941 : :	:Rough Buoy. Near :miss, 500 Kg. D.A. :fuse.	:Moderate. 3 months. : :
<u>LA MALOUINE</u>	:May 5, 1941 : :	:Belfast. Near miss. :Size and type un- :known.	: Moderate. 3 months. : :
<u>STOKE</u> Minesweeper 1917-19	:May 7, 1941 :	:Direct hit. Size :and type unknown.	:Sunk. :
<u>SALVIA</u>	:May 18, 1941 :	:Suda Bay. No other :data given.	: :
<u>WIDNES</u> Minesweeper 1917-19	:May 18, 1941 :	:Near miss. Size :and type unknown.	:Nil. :
<u>WIDNES</u> Minesweeper 1917-19	:May 20, 1941 : :	:Cape Drepano. 3 :near misses. D.A. :fuses.	:Beached. : :
<u>GRIMSBY</u> Escort Type Sloop 1933	:May 25, 1941 : : :	:Mediterranean. 2 :direct hits. D.A. :fuse. Near miss. :100 Kg. D.A. fuse.	:Sunk. : : :

BOMB DAMAGE

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Sloops, Corvettes, Minesweepers.; (Cont'd.)	Date	Attack	Remarks
<u>AUKLAND</u> Escort Type Sloop 1938	:June 24, 1941 :	:Size and type not :known.	:Sunk. :
<u>FLAMINGO</u> Escort Type Sloop 1939	:June 30, 1941 : : : : : :	:Libyan Coast. 2 :near misses. 500 Kg. :D.A. fuse. 6 near :misses. 250 Kg. :Inst. fuse. Other :near misses, 50 Kg. :Inst. fuses.	: : : : : : :
<u>HYACINTH</u>	:July 5, 1941 : :	:Famagusta. 3 near :misses. Size and :type not known.	: : :
<u>SELKIRK</u> Minesweeper 1917-19	:Aug. 8, 1941 :	:Near miss. Size :and type unknown.	:Nil. :
<u>BLACK SWAN</u> Escort Type Sloop 1939	:Aug. 24, 1941 :	:Near miss. Size :and type unknown.	:Slight. 3 weeks. :
<u>GANNET</u> Rivergun Boat 1927	:Sept. 6, 1940 : :	:North Atlantic. :Near miss. Size :and type not known.	:Nil. : :

MISCELLANEOUS CRAFT

BOMB DAMAGE
~~CONFIDENTIAL~~

River Gunboats and Others.	Date	Attack	Remarks
<u>FRANKLIN</u> Surveying Ship 1937	:Nov. 13, 1940	:North Sea. Near :miss, 50 Kg. D.A. :fuse.	:Nil. : :
<u>ALECTO</u> Submarine Depot Ship 1911	:Mar. 27, 1941	:English Channel. :Direct hit. D.A. :fuse. Size not :known.	:Nil. : : :
<u>PROTECTOR</u> Netlayer 1936	:Apr. 22, 1941	:Suda Bay. Near miss. :Size and type not :known.	:Nil. : :
<u>CORFIELD</u>	:May 9, 1941	:Dowsing. Near miss. :Size and type not :known.	:Nil. : :
<u>LADYBIRD</u> River Gun Boat 1915	:May 11, 1941	:Toburk. 2 direct :hits, size and type :not known.	:Sunk. : :
<u>FRANKLIN</u> Surveying Ship 1937	:May 13, 1941	:North Sea. 4 near :misses. Size and :type not known.	:Nil. : :

BOMB DAMAGE
~~CONFIDENTIAL~~

River Gunboats and Others.	Date	Attack	Remarks
<u>FRANKLIN</u> Surveying Ship 1937	:June 3, 1941 : :	:North Sea. 2 near :misses. 250 Kg. :D.A. fuses.	:Slight. 9 days. : :
<u>CRICKET</u> River Gunboat 1915	:June 30, 1941 :	:Mersa Matruh. :No details known.	:Total loss. :

MISCELLANEOUS CRAFT

BOMB DAMAGE
~~CONFIDENTIAL~~

Submarines	Date	Attack	Remarks
<u>SEAHORSE</u> 640 Tons 1932	:Sept. 5, 1939 :	:North Sea. Size not :known. D.A. fuse. :	:Slight. 4 days.
<u>OLYMPUS</u> 1475 Tons 1928	:July 7, 1940 :	:Malta Dockyard. Di- :rect hit. Size un- : :known. Inst. fuse. :	:Moderate. 4 months.
<u>*ROVER</u> 1475 Tons 1930	:May 24, 1941	:Near miss.	:Repaired at Singapore.
<u>*REGENT</u> 1475 Tons 1930	:May 26, 1941	:Near miss.	:Slight. 2 weeks.
<u>P-32</u>	:May 21, 1941	:	:Nil.
<u>OLYMPUS</u> 1475 Tons 1928	:July 31, 1941 :	:Also depth size and :type unknown : :charged. :	:Moderate. 10 weeks.
<u>UNIQUE</u>	:Aug. 20, 1941	:	:Nil.

BOMB DAMAGE
~~CONFIDENTIAL~~

Armed Merchant Cruisers	Date	Attack	Remarks
<u>WOLFE</u>	:Sept. 12, 1940:	Direct hit. Did :not explode.	: Nil.
<u>COMORIN</u>	:Apr. 6, 1941 :		: Sunk
<u>Small Motor Craft</u> M.M.S. 18	:May 11, 1941 :	Near miss.	: Nil.
M.M.S. 1	:May 11, 1941 :	Near miss. London:	: 12 days.
M.G.B. 61	:Mar. 10, 1941 :	Near miss. : Portsmouth	: 3 weeks.
M.G.B. 98	:Mar. 11, 1941 :	Portsmouth	: Sunk.
M.G.B. 63	:July 25, 1941 :		: Nil.
M.G.B. 70	:Aug. 22, 1941 :		: Nil.
M.T.B. 50	:May 15, 1941 :	Near miss.	: Severe. 5 months.