Background: In this engagement, Kriegsmarine destroyers were ordered to intercept and sink a British cruiser crippled by a U-boat attack. Before the Germans could locate the cruiser, they stumbled across a convoy returning from Murmansk.

Division 1	Bulldog Amazon	("B" Class flag) ("A" Class)
Division 2	Beagle Beverly	("B" Class) ("Town" Class)
Convoy	Atheltemplar Ballot Briarwood Dan-y-bryn Dunboyne El Estero Eldena Gallant Fox Mormacmar Stone Street Trehata Tsiolkovski West Cheswald	(Large Tanker) (Medium Freighter) (Medium Freighter) (Medium Freighter) (Small Freighter) (Medium Freighter) Small Freighter (Medium Freighter)
Division 1	Hermann Schoemann Z25 Z24	(Type 34A flag) (Type 36A) (Type 36A)
	Division 2 Convoy	Amazon Division 2 Beagle Beverly Convoy Atheltemplar Ballot Briarwood Dan-y-bryn Dunboyne El Estero Eldena Gallant Fox Mormacmar Stone Street Trehata Tsiolkovski West Cheswald Division 1 Hermann Schoemann Z25

Set-up:

N^

German Division 1 is steaming on a course of 270 in line ahead, 36 inches from the north edge and 24 inches from the east edge.

British Division 1 is steaming on a course of 090 in line ahead, 22 inches from the north edge and 40 inches from the east edge. British Division 2 in steaming on a course of 090 in line ahead, 30 inches from the north edge and 40 inches from the east edge. The Convoy is steaming on a course of 090 in three columns of (from

the north) 4, 5, and 4 ships. Each column is separated by 2 inches. The north eastern-most ship is 24 inches from the north edge and 45 inches from the east edge.

Victory Conditions:

- a) The German player receives 1 point for leaving any destroyer or escort with 0 speed, 1 point for sinking any merchant ship and 2 points for sinking any destroyer or escort.
- b) The British player gets 2 points per sunk destroyer and 1 point per destroyer left with 0 speed.

Special Rules:

- 1. The British destroyers have Type 286P and 285 radars.
- 1. The Type 36A ships have not received their forward turrets. They have 4 single 5.9 inch mounts in A, M, X, and Y positions. Their guns are subject to a –2 accuracy modifier.
- 2. The British "A" and "B" class ships are modified escorts. They no longer have their A and Y gun mounts or their B torpedo mounts. Treat these locations as AAMGs. These destroyers have 286 search radars and 285 fire control radars in lieu of a conventional director.
- 3. The Town class escort is a modified Clemson class destroyer. It retains only a single 4 inch gun in A position, firing under local control, and a single bank of three torpedo tubes in the A midships position. Hits in other armament locations are treated as AAMG hits. The escort has 286 radar.
- 4. At the start of the scenario, the German player must secretly designate one German destroyer that will not fire torpedoes during the scenario. (These were being held in reserve for the British cruiser.)
- 5. Ice floes in the enagement area interfered with torpedo fire. Double all range modifications for torpedo attacks.
- 6. The Convoy must plot its move one turn in advance. It may maneuver by ships' turns only. Convoy speed is 1.25 inches. All freighters in the convoy have engine amidships. The tanker has her engine aft.
- 7. Visibility is **9** Arctic day. The gunfire factor is **--2**.

Outcome: The opponents traded gunfire and torpedoes at long range. When the Germans broke off the action, they had damaged Amazon and sunk one freighter.

"A" - "I" Classes

Navy Royal Navy Class Destroyer

<u>Date</u> 1940 <u>Armor</u> None

Surface Armament

Main Battery: Torpedoes:

4.7 inch guns in 4 single mounts

21 inch torpedoes in 2 quadruple mounts

2 special hits

Ranges 18 inches

13 inches at 4.25"

16 inches at 2.75"

<u>Directors</u>

Fore

Port and starboard

Speed 4.50 3 boilers 2 engines

Flotation Total: 27 DIW: 14 Sinking: 18

Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5

Armament Arrangement

-C -C ф **==** 3 - 3

Notes

- Classic British inter-war destroyer design.
- Is had quintuple mounts.
- Similar in game terms were 6 Hs built for Brazil but taken over by the Royal Navy. These lacked Y mount.
- Also similar were 2 Is built for Turkey (Inconstant and Ithuriel) but used by the RN. These had quadruple torpedo mounts.
- Most gave up a torpedo mount later in the war to ship a 3 inch anti-aircraft gun. This is treated as an AAMG for game purposes.

Hits

micoma	. Diagiai	•							
FO1	FM	FO2	BR1	BR2	BR3	ER	AM	FO3	ST
1FP	A&B 1FP	3FP	B1	B2	B3	E1	X&Y	1FP	1FP
	1FP					E2	1FP		
			3FP	4FP	3FP	9FP			

Clemson/Wickes

2 engines

Royal Navy Navy Class Destroyer

Date 1942 <u>Armor</u> None

Ranges

Surface Armament

Main Battery: 4 inch gun in 1 single mounts Torpedoes: 21 inch torpedoes in 1 triple mounts 14 inches 6 inches at 5.50" **Directors** Fore

2 special hits

10 inches at 3.25"

Port and starboard

Speed 3.75 4 boilers

DIW: 14 **Flotation** Total: 27 Sinking: 18

> <u>Torpedo Hits</u> 17.7"-18": ±1 24": ±6 20.5"-22.5": ±4

Armament Arrangement

Notes

- Built in the late teens and early 20s, but still serving in the US Asiatic Fleet in 1941.
- This version reflects modifications made by the Royal Navy to the ships of this class that it received.

Hits

Fuel Oil 1 Fuel Oil 1 Fuel Oil 1 Fuel Oil 1 Forward Main Magazine Fuel Oil 2 Fuel Oil 3 Fuel Oil 4 Fuel Oil 5 Fuel Oil 4 Fuel Oil 5 Fuel Oil 5 Fuel Oil 4 Fuel Oil 5 Fuel Oil 6 Fuel Oil 7 Fuel Oil 7 Fuel Oil 7 Fuel Oil 8	Fuel Oil 1	11-13	Void
Forward Main Magazine Fuel Oil 2 Soiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 6 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 9 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 8 Boiler Room 8 Boiler Room 9 Boiler Room 9 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 2 Boiler Room 3 Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room	Fuel Oil 1	15-21	Main A
Fuel Oil 2 25 Main Director Boiler Room 1 26 Void Boiler Room 1 31 Funnel Boiler Room 1 32 Funnel Boiler Room 1 33 Funnel Boiler Room 2 34 AAMGs Boiler Room 2 35 AAMGs Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Fuel Oil 1	22	Void
Boiler Room 1 26	Forward Main Magazine	23-24	Bridge
Boiler Room 1 31 Funnel Boiler Room 1 32 Funnel Boiler Room 1 33 Funnel Boiler Room 2 34 AAMGs Boiler Room 2 35 AAMGs Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Fuel Oil 2	25	Main Director
Boiler Room 1 32 Funnel Boiler Room 1 33 Funnel Boiler Room 2 34 AAMGs Boiler Room 2 35 AAMGs Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 1	26	Void
Boiler Room 1 33 Funnel Boiler Room 2 34 AAMGs Boiler Room 2 35 AAMGs Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 1	31	Funnel
Boiler Room 2 34 AAMGs Boiler Room 2 35 AAMGs Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 1	32	Funnel
Boiler Room 2 35 AAMGs Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 1	33	Funnel
Boiler Room 2 36 Funnel Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 2	34	AAMGs
Boiler Room 2 41 Torpedo A Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void			
Engine Room 1 42-43 Torpedo A Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void		36	Funnel
Engine Room 1 44 Searchlight Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	Boiler Room 2	41	Torpedo A
Engine Room 2 45-51 AAMGs Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	· ·	42-43	Torpedo A
Fuel Oil 3 52-53 Void Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	•		•
Aft Main Magazine 54-55 Void Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	3		
Aft Main Magazine 56 AAMGs Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void			
Fuel Oil 4 61-62 AAMGs Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void	<u> </u>		
Fuel Oil 4, Propshaft 1 or 2 63 AAMGs Fuel Oil 4, Propshaft 1 or 2 64 Void			
Fuel Oil 4, Propshaft 1 or 2 64 Void			
Steering 65-66 Steering	·	_	
	Steering	65-66	Steering

FO1	FM	FO2	BR1	BR2	ER1	ER2	FO3	AM	FO4	ST
1FP	A,1,2	3FP	B1	B3	E1	E2	1FP	X	1FP	1FP
	1FP	5	B2 4FP	B4 4FP	4FP	4FP		1FP		

Merchantman (engine amidships)										
<u>Navy</u>	Merchantman			Date 1	942					
Class	Engine amids	hips		<u>Armor</u> N	lone					
<u>Speed</u> 1.00"-2.00)"	1 en	gine	Torpedo Hits Small Medium	17.7"-18": ±3 +2	20.5"-22.5": ±6 ±4	24": ±9 ±6			
Flotation	Total:	DIW:	Sinking:	Large	±1	±3	±5			
Small Freighter	29	10/5	15/8			_0	_•			
Medium Freighter	38	13/7	19/10							
Large Freighter	43	15/8	22/11							
Small Tanker	29	15/10	20/14							
Medium Tanker	38	19/12	25/16							
Large Tanker	43	22/14	28/18							

Notes

- Models merchantment with boilers and engine situated amidships rather than aft. Many freighters were built in this configuration.
- Small merchantmen equate to a displacement of 1000 to 3000 displaced tons (about 1500 to 4000 gross registered tons), medium merchantmen to 3000-7000 displaced tons (about 4000 to 9000 grt) and large merchantmen to 7000-15000 displaced tons (about 9000-20000 grt).
- Flotation values for DIW and sinking reflect poorer watertight integrity of freighter compartmentization and the heavy loads they carried. The number before the slash applies to unloaded ships, the number after the slash to loaded ships.

Hits						
Small	Medium	Large		Small	Medium	Large
Bow	Bow	Bow	11-13	Bow	Bow	Bow
Hold 1	Hold 1	Hold 1	14-15	Hold 1	Hold 1	Hold 1
Hold 1	Hold 1	Hold 1	16-21	Hold 1	Hold 1	Hold 1
Hold 1	Hold 1	Hold 2	22-23	Hold 1	Hold 2	Hold 2
Hold 1	Hold 2	Hold 2	24-25	Hold 1	Hold 2	Hold 2
Hold 1	Hold 2	Hold 2	26	Bridge	Bridge	Bridge
Hold 1	Hold 2	Hold 3	31-32	Bridge	Bridge	Bridge
Hold 1	Hold 2	Hold 3	33-34	Hold 1	Hold 2	Hold 3
Engine	Engine	Engine	35-42	Engine	Engine	Engine
Hold 2	Hold 3	Hold 4	43-44	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 4	45-46	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 4	51	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 5	52-53	Hold 2	Hold 3	Hold 5
Hold 2	Hold 4	Hold 5	54-55	Hold 2	Hold 4	Hold 5
Hold 2	Hold 4	Hold 6	56-61	Hold 2	Hold 4	Hold 6
Hold 2	Hold 4	Hold 6	62-63	Hold 2	Hold 4	Hold 6
Hold 2	Hold 4	Hold 6	64	Hold 2	Hold 4	Hold 6
Steering	Steering	Steering	65-66	Steering	Steering	Steering

Internal Diagram -- Small

BOW	H1	ER	H2	ST
1FP	FP	E1	FP	1FP
	12FP	3FP	12FP	

Internal Diagram -- Medium

BOW 1FP	H1 8FP	H2 8FP	ER E1 4FP	H3 8FP	H4 8FP	ST 1FP
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Internal Diagram -- Large

BOW 1FP	H1 6FP	H2 6FP	H3 6FP	ER E1 5FP	H4 6FP	H5 6FP	H6 6FP	ST 1FP
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	Merchantman (engine aft)											
<u>Navy</u> <u>Class</u>		rchantman gine aft			942 Ione							
<u>Speed</u>	1.00"-2.00"	2 boilers	1 engine	Torpedo Hits Small Medium	17.7"-18": ±3 ±2	20.5"-22.5": ±6 ±4	24": ±9 ±6					
<u>Flotation</u>	Total:	DIW:	Sinking:	Large	±1	±3	±5					
Small	29	15	20									
<u>Medium</u>	38	19	25									
<u>Large</u>	43	22	28									

Notes

- Models merchantment with boilers and engine situated aft rather than amidships.
- Small merchantmen equate to a displacement of 1000 to 3000 tons, medium merchantmen to 3000-7000 tons and large merchantmen to 7000-15000 tons.

Hits						
Small	Medium	Large		Small	Medium	Large
Bow	Bow	Bow	11-13	Bow	Bow	Bow
Hold 1	Hold 1	Hold 1	14-15	Hold 1	Hold 1	Hold 1
Hold 1	Hold 1	Hold 1	16-21	Hold 1	Hold 1	Hold 1
Hold 1	Hold 1	Hold 2	22-23	Hold 1	Hold 2	Hold 2
Hold 1	Hold 2	Hold 2	24-25	Hold 1	Hold 2	Hold 2
Hold 1	Hold 2	Hold 2	26	Bridge	Bridge	Bridge
Hold 1	Hold 2	Hold 3	31-32	Bridge	Bridge	Bridge
Hold 1	Hold 2	Hold 3	33-34	Hold 1	Hold 2	Hold 3
Hold 2	Hold 3	Hold 4	35-36	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 4	41-42	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 4	43	Hold 2	Hold 3	Hold 4
Hold 2	Hold 3	Hold 5	44-45	Hold 2	Hold 3	Hold 5
Hold 2	Hold 4	Hold 5	46-51	Hold 2	Hold 4	Hold 5
Hold 2	Hold 4	Hold 6	52-53	Hold 2	Hold 4	Hold 6
Hold 2	Hold 4	Hold 6	54-55	Hold 2	Hold 4	Hold 6
Hold 2	Hold 4	Hold 6	56	Hold 2	Hold 4	Hold 6
Engine	Engine	Engine	61-64	Engine	Engine	Engine
Steering	Steering	Steering	65-66	Steering	Steering	Steering

Internal Diagram -- Small

BOW 1FP	H1 FP 12FP	H2 FP 12FP	ER B1,E1 3FP	ST 1FP
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Internal Diagram -- Medium

	H1 H2 8FP 8FF	H3 8FP	H4 8FP	ER B1,E1 4FP	ST 1FP
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Internal Diagram -- Large

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Ī	BOW 1FP	H1 6FP	H2 6FP	H3 6FP	H4 6FP	H5 6FP	H6 6FP	ER B1,E1 5FP	ST 1FP

Type 34

Navy Deutsches Kriegsmarine

<u>Class</u> Destroyer

<u>Date</u> 1940

Surface Armament

Main Battery: 5 inch guns in 5 single mounts

Torpedoes: 21 inch torpedoes in 2 quadruple mounts

18 inches 8 inches at 5.00"

Ranges

Directors
Fore and aft
Port and starboard

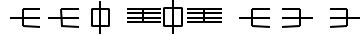
13 inches at 3.75"

Speed 4.75" 6 boilers 2 engines

Flotation Total: 33 DIW: 17 Sinking: 22

Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5

Armament Arrangement



<u>Notes</u>

- Class included Z-1 through Z-8.
- Z-9 through Z-13 were Type 34A, similar in game terms.
- Z-14 through Z-21 were Type 36, also similar in game turns.
 - Fuel tanks like cruisers, outboard of machinery spaces.

Hits

Void 1 Void 1 Void 1 Forward Main Magazine Forward Main Magazine Forward Main Magazine	11-13 14 15-16 21-22 23 24	Forward Void Main A Main A Main B AAMGs Bridge
Boiler Room 1	25	Torpedo Directors, Bridge
Boiler Room 1	26	Forward Director, Bridge
Boiler Room 2	31	Funnel
Boiler Room 2	32	Torpedo A
Turbogenerator Room	33	Torpedo A
Boiler Room 3	34	Torpedo A
Boiler Room 3	35	Funnel, AAMGs, Searchlight
Engine Room 1	36	Funnel, AAMGs, Searchlight
Engine Room 1	41	Aft Director
Engine Room 1	42	Torpedo B
Void 2	43	Torpedo B
Engine Room 2	44	Torpedo B
Engine Room 2	45	Main M
Engine Room 2	46	Main M
Aft Main Magazine	51	Main M
Aft Main Magazine	52	AAMGs
Aft Main Magazine	53-55	Main X
Void 3, Propshaft 1 or 2	56-62	Main Y
Void 3, Propshaft 1 or 2	63-64	Void
Steering	65-66	Steering

I	V1	FM A	BR1 B1,B2	BR2 B3,B4	TR	BR3 B5,B6	ER1 E1	V2	ER2 E2	AM MXY	V3	ST
	2FP	3FP	3FP	3FP	1FP	3FP	4FP	1FP	4FP	4FP	3FP	2FP

Type 36A

Deutsches Kriegsmarine Navy

Class Destroyer Date

1942

Surface Armament

5.9 inch guns in 1 twin and 3 single turrets Main Battery: 21 inch torpedoes in 2 quadruple mounts Torpedoes:

Ranges 24 inches 8 inches at 5.00" 13 inches at 3.75"

Directors Forward and aft Port and starboard

4.75" 6 boilers **Speed** 2 engines

Flotation Total: 31 **DIW: 16** Sinking: 20

> Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5

Armament Arrangement



Hits

<u>Notes</u>

- Class included Z-23 through Z-39.
- First eight completed with 4 single gun mounts. Most received a forward turret in lieu of the forward single mount in 1942.
- At first glance, "super-destroyers"; but the class suffered from poor sea-keeping abilities, unreliable powerplant, and a main battery too large for the hulls
- -2 to main battery accuracy; -3 (rather than -2) optional modifier in heavy seas.
- Fuel tanks like cruisers, outboard of machinery spaces.

11-14 Void Void 1 Forward Main Magazine 15-22 Main A Forward Main Magazine 23-24 **AAMGs**

> Bridge, Torpedo Directors Boiler Room 1 25 Boiler Room 1 26 Bridge, Forward Director

Boiler Room 2 31 Funnel Boiler Room 2 32 Funnel Turbogenerator Room 33 Torpedo A 34-35 Torpedo A Boiler Room 3 Boiler Room 3 36 Funnel

Engine Room 1 41 Searchlight, AAMGs

Engine Room 1 42-43 Torpedo B, Torpedo Director

Fuel Oil 44 Torpedo B Engine Room 2 45 AAMGs. Main M Engine Room 2 46 Main M Engine Room 2 51 Main M 52 **AAMGs** Aft Main Magazine Aft Main Magazine 53-55 Main X

> Void 2 56-62 Main Y

Void 2, Propshaft 1 or 2 63-64 Void

Steering 65-66 Steering

	FM	BR1	BR2		BR3	ER1		ER2	AM		
V1	Α	B1,B2	B3,B4	TR	B5,B6	E1	FO	E2	MXY	V2	ST
1FP	3FP	3FP	3FP	1FP	3FP	4FP	1FP	4FP	4FP	2FP	2FP