

Background: 1941 saw growing tensions between Japan and Britain. The Japanese were committed to a land campaign in China, and looked on British support of the Chinese as part of a Western conspiracy designed to deprive Japan of her rightful destiny. The British were struggling single-handedly against the Germans and Italians, and viewed Japan as a *de facto* member of the Axis. Relations deteriorated rapidly after the summer of 1941, when the British, Dutch and Americans stopped the export of critical war materials to Japan to protest the Japanese occupation of French Indochina.

Faced with increasing diplomatic pressure and a diminishing stock of supplies (and particularly of oil), Japan either had to abandon her war against China or strike before she strangled. Internal politics, over-estimation of her capabilities and under-estimation of her opponents' will to fight all combined to push Japan to war. She planned a sweeping and multi-pronged campaign, striking at Pearl Harbor, the Phillipines and British Malaya, and aimed at capturing the rich natural resources of southern Asia.

The British position in the Far East was anchored by the British naval base at Singapore, located at the tip of the Malayan peninsula. Despite Singapore's supposed fortress status, few British strategic thinkers expected Singapore to hold out for long without major naval reinforcements. Britain's wartime commitments in the Atlantic and Mediterranean meant that these reinforcements were just not available. Singapore's hope of salvation lay with the United States Navy, not the Royal Navy, and this hope was dashed by the results of the Pearl Harbor attack.

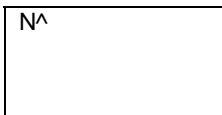
While the British did not feel that they could handle the Japanese together with the Germans and the Italians, they did hope that a show of force would keep the Japanese from war. This, and not any hope of military success, caused the Admiralty to order Admiral Tom Phillips to Singapore with the battleship Prince of Wales and the battlecruiser Repulse. They arrived too late to arrest the Japanese march to war, but once there the momentum of events and the need for the Royal Navy to do *something* meant that the ships could not be withdrawn. When the Japanese landed troops on the east coast of the Malayan peninsula, Phillips simply had to act to assist the hard-pressed army and RAF.

Judging that the threat from Japanese air and naval forces was not too great, he took his ships north into the South China Sea to strike at Japanese landing forces. He pressed northward for a dawn strike, even though he knew that his ships had been spotted and that Japanese covering forces might be steaming to intercept him.

Forces:

Imperial Japanese Navy: Vice-Admiral Ozawa Jisaburo	Division 1	Chokai Asagiri	(Takao -- flag) (Fubuki)
	Division 2	Kumano Mikuma Mogami Suzuya	(Suzuya -- flag) (Mogami) (Mogami) (Suzuya)
	Division 3	Fubuki Hatsuyuki Shirayuki	(Fubuki -- flag) (Fubuki) (Fubuki)
Royal Navy: Admiral Tom Phillips	Division 1	Prince of Wales Repulse	(King George V --flag) (Repulse)
	Division 2	Express Electra Vampire	("E" Class -- flag) ("E" Class) ("W/V" Class)

Set-up:



Japanese Division 1 begins on a course of 150 degrees with Chokai leading,
 Japanese Division 2 begins 5 inches north and 6 inches east of Division 1, with the cruisers leading the destroyers in line head, on a course of 150 degrees.
 Chokai is 15 inches south of the north edge and 39 inches west of the east edge.

British Division 1 begins on a course of 300 degrees in line ahead with Prince of Wales leading,
 British Division 2 begins on a course of of 300 degrees in line abreast with 1 inch separating each ship and the center ship 1 inch directly ahead of Prince of Wales.
 Prince of Wales is 33 inches south of the north edge and 21 inches west of the east edge.

Victory Conditions:

- a) 1 point for each destroyer sunk,
- b) 2 points for each cruiser sunk,
- c) 4 points for each battleship or battlecruiser sunk or left dead in the water.

Special Rules:

1. The Prince of Wales has Type 271 radar, Type 286 radar, two Type 284 radars and four Type 285 radars. Repulse, Express and Electra each have Type 286 radar.
2. The Japanese are alert.
3. Roll 1D6 at the start of each Visibility Phase. On a roll of **1**, Japanese aircraft will illuminate 1 division of ships (either Japanese or British) with starshell at the start of the visibility phase. Determine the formation by a random die roll.
4. The Japanese destroyers are equipped with the early model of 24 inch torpedo.
5. The night is overcast and rainy, with the moon not yet risen. Roll **1D6** each turn for the visibility base. The gunfire modifier is the **visibility base minus 8**.
6. Optional: Phillips lacked wartime experience afloat. To simulate this, require the British to plot movement 1 turn in advance.

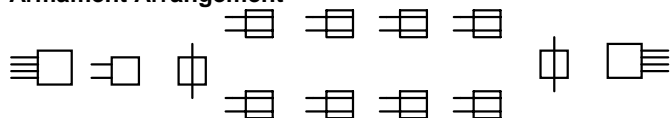
Outcome: Historically, Ozawa closed to within 20 miles of the British force but broke off to the north after Phillips turned away to the south. The Japanese had planned a night cruiser action capitalizing on their superior torpedoes, to be followed with daylight airstrikes and intervention by a stronger Japanese covering force lying further north, but Phillips's unwitting turn away convinced Ozawa that only aircraft could catch the British force before it returned to Singapore.

Events proved Ozawa correct. Although the Japanese lost contact with the British force during the night, a Japanese search aircraft found it again while Phillips was investigating a false report of a Japanese landing in southern Malaya. Unaware of the danger posed by the long-ranged Japanese torpedo bombers based in Indochina, Phillips loitered in the area investigating passing shipping. He paid for his ignorance of Japanese capabilities with his life, when Japanese aircraft overwhelmed and sank both Prince of Wales and Repulse. This was a new thing in naval warfare: the first time that unaided aircraft had sunk capital ships that were alert and underway.

King George V

<u>Navy Class</u>	Royal Navy Battleship	<u>Date</u>	1942
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	14 inch guns in 1 twin and 2 quadruple turrets	36 inches	Fore and aft
Secondary Battery:	5.25 inch guns in 8 twin mounts	23 inches	Four corners
<u>Speed</u>	3.75"	8 boilers	4 engines
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44
<u>Bulge</u>	-1 for torpedo hits in way of locations 26-53		<u>Torpedo Hits</u> 17.7"-18": 50% 20.5"-22.5": ±0 24": ±1

Armament Arrangement



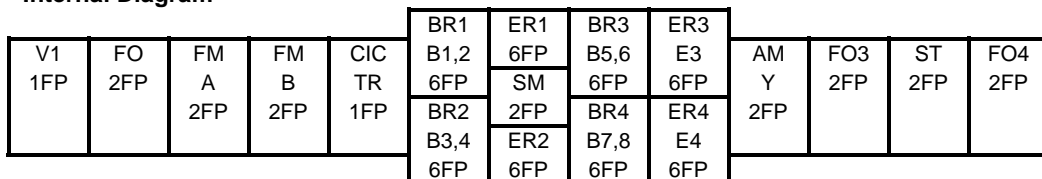
Notes

- Five in class: King George V, Prince of Wales, Duke of York, Anson, Howe
- Quad turret was unreliable -- treat as a triple turret or use specific mount value in national table.

Hits

	Fuel Oil 1	11-12	Void
	Fuel Oil 2	13-14	AAMGs
	Main Magazine A	15-21	Main A
	Main Magazine B	22-24	Main B
	Transmitting Room/CIC	25	Bridge
	Boiler Room 1 or 2	26	Forward Primary Director
	Boiler Room 1 or 2	31	Secondary Director 1 or 2
	Boiler Room 1 or 2	32	Bridge
	Boiler Room 1 or 2	33	Secondary 1 or 2
	Engine Room 1 or 2, or Secondary Magazine	34	Funnel
	Engine Room 1 or 2, or Secondary Magazine	35	Funnel,
	Engine Room 1 or 2, or Secondary Magazine	36	Secondary 3 or 4
	Engine Room 1 or 2, or Secondary Magazine	41	Searchlight 1 or 2
	Boiler Room 3 or 4	42	Catapult, Aircraft
	Boiler Room 3 or 4	42	AAMGs, Catapult, Aircraft
	Boiler Room 3 or 4	44	Secondary 5 or 6
	Boiler Room 3 or 4	44	Funnel, AAMGs
	Boiler Room 3 or 4	45	Funnel, Searchlight 3 or 4
	Engine Room 3 or 4	46	Secondary 7 or 8
	Engine Room 3 or 4	51	AAMGs
	Engine Room 3 or 4	52	AAMGs
	Engine Room 3 or 4	53	Aft Primary Director, AAMGs
	Main Magazine X	54	Secondary Director 3 or 4, AAMGs
	Main Magazine X	55-56	Main X
	Propshaft 1 or 2, Fuel Oil 3	61	Main X
	Propshaft 3 or 4, Fuel Oil 3	62	Void
	Fuel Oil 3	63	AAMGs
	Steering	64	Steering
	Fuel Oil 4	65-66	AAMGs

Internal Diagram



Repulse

<u>Navy Class</u>	Royal Navy Battlecruiser	<u>Date</u>	1941	
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>	
Main Battery:	15 inch guns in 3 twin turrets	32 inches	Fore and aft	
Secondary Battery:	4 inch guns in 6 single mounts	16 inches	Fore and aft	
<u>Speed</u>	3.50"	42 boilers	4 engines	(Treat as a 6 boiler ship, with every 7 boilers lost equating to 1 boiler lost)
<u>Flotation</u>	Total: 82	DIW: 41	Sinking: 55	
<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3	

Armament Arrangement



Notes

- Not modernized as was her sister Renown.

Hits

Forward Void	11-13	Void
Fuel Oil 1	14-16	Void
Primary Magazine A	21-23	Main A
Primary Magazine B	24-26	Main B
Transmitting Station	31	Bridge, Forward Primary Director
Boiler Room 1	32	Bridge, Forward Secondary Directors
Boiler Room 1	33	Search Radar, Secondary 1 or 2
Boiler Room 1	34	Funnel, Secondary 3 or 4, Searchlight 1 or 2
Boiler Room 2	35	Secondary 5 or 6, Funnel
Boiler Room 2	36	Void
Boiler Room 3	41-42	Funnel
Boiler Room 4	43-44	Aircraft
Engine Room 1 or 2	45-46	Catapult
Engine Room 1 or 2	46	Aft Secondary Directors
Engine Room 1 or 2	51	Secondary 7 or 8, Searchlight 3 or 4
Engine Room 3 or 4	52	Secondary 9 or 10
Engine Room 3 or 4	53	Aft Primary Director
Primary Magazine Y	54-56	Main Y
Fuel Oil 2, Propshaft 1 or 2	61-63	Void
Aft Void, Propshaft 3 or 4	64-65	Void
Steering	66	Steering

Internal Diagram

V1 1FP	FO1 2FP	PM A 2FP	PM B 2FP	TR 1FP	BR1 B1- B3 2FP	BR2 B4- B10 6FP	BR3 B11- B18 8FP	BR4 B19- B26 8FP	BR5 B27- B34 8FP	BR6 B35- B42 8FP	ER1 E1 8FP	ER3 E3 6FP	PM Y 2FP	FO2 2FP	V2 1FP	ST 1FP
											ER2 E2 8FP	E4 E4 6FP				

“E/F/G/H/I” Classes

<u>Navy Class</u>	Royal Navy Destroyer	<u>Date</u> <u>Armor</u>	1940 None
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4.7 inch guns in 4 single mounts	18 inches	Fore
Torpedoes:	21 inch torpedoes in 2 quadruple mounts 2 special hits	13 inches at 4.25" 16 inches at 2.75"	Port and starboard
<u>Speed</u>	4.50	3 boilers	2 engines
<u>Flotation</u>	Total: 27	DIW: 14	Sinking: 18
<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±3	24": ±5

Armament Arrangement



Notes

- Classic British inter-war destroyer design.
- Eight ships in each class, for a total of 40.
- 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

Fuel Oil 1	11-14	Forward Void
Fuel Oil 1	15	Main A
Forward Main Magazine	16-21	Main A
Forward Main Magazine	22-23	Main B
Fuel Oil 2	24	Main B
Fuel Oil 2	25	AAMGs
Fuel Oil 2	26	Bridge
Fuel Oil 2	31	Bridge
Boiler Room 1	32	Main Director
Boiler Room 1	33	Funnel
Boiler Room 2	34	Funnel
Boiler Room 2	35	AAMGs
Boiler Room 3	36	AAMGs
Boiler Room 3	41	Funnel
Engine Room	42-44	Torpedo A
Engine Room	45-51	Torpedo B [AAMGs]
Aft Main Magazine	52	Searchlight
Aft Main Magazine	53	AAMGs
Aft Main Magazine	54-55	Main X
Fuel Oil 3	56	Main X
Fuel Oil 3	61-62	Main Y
Propshaft 1 or 2	63-64	Void
Steering	65-66	Steering

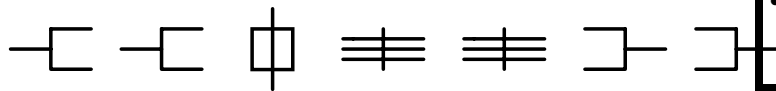
Internal Diagram

FO1 1FP	FM A&B 1FP	FO2 3FP	BR1 B1 3FP	BR2 B2 4FP	BR3 B3 3FP	ER E1 E2 9FP	AM X&Y 1FP	FO3 1FP	ST 1FP
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V/W Classes

<u>Navy Class</u>	Royal Navy Destroyer	<u>Date</u>	1942	<u>Armor</u>	None
<u>Surface Armament</u>		<u>Ranges</u>		<u>Directors</u>	
Main Battery: 4.7 inch guns in 4 single mounts		16 inches		Fore	
Torpedoes: 21 inch torpedoes in 2 triple mounts		4 inches at 5.50"		Port and starboard	
		9 inches at 3.75"			
<u>Speed</u>	4.25"	3 boilers	2 engines		
<u>Flotation</u>	Total: 25	DIW: 13	Sinking: 16		
		<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±4	24": ±6

Armament Arrangement



Notes

- Later modified as escort vessels, but in this original configuration for the Channel Dash.

Hits

	Fuel Oil 1	11-13	Void
	Fuel Oil 1	15-21	Main A
Forward Main Magazine		22-24	Main B
	Fuel Oil 2	25-26	Bridge
	Fuel Oil 2	31	Bridge, Main Director
	Boiler Room 1	32	Search Radar
	Boiler Room 1	33-34	Funnel
	Boiler Room 1	35-36	Torpedo A
	Boiler Room 2	41-42	Torpedo A
	Boiler Room 2	43	Funnel
	Engine Room 1	44-45	Searchlight
	Engine Room 1	46	Torpedo B
	Engine Room 2	51-53	Torpedo B
	Fuel Oil 3	54-56	Main X
	Aft Main Magazine	61-63	Main Y
Aft Main Magazine, Propshaft 1 or 2		63	Main Y
	Fuel Oil 4, Propshaft 1 or 2	64	Void
	Steering	65-66	Steering

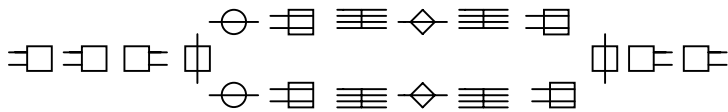
Internal Diagram

FO1 1FP	FM AB 1FP	FO2 3FP	BR1 B1 B2 5FP	BR2 B3 3FP	ER1 E1 4FP	ER2 E2 4FP	FO3 1FP	AM XY 1FP	FO4 1FP	ST 1FP
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Takao

<u>Navy Class</u>	Imperial Japanese Navy Heavy cruiser	<u>Date</u>	1942, as reconstructed		
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>		
Main Battery:	8 inch guns in 5 twin turrets	32 inches	Fore and aft		
Secondary Battery:	5 inch guns in 4 twin mounts	15 inches	Port and starboard		
Torpedoes:	24 inch torpedoes in 4 quadruple mounts 8 reloads 3 special hits	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Port and starboard		
<u>Speed</u>	4.25"	12 boilers	4 engines		
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44		
<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54		<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2 24": ±3

Armament Arrangement



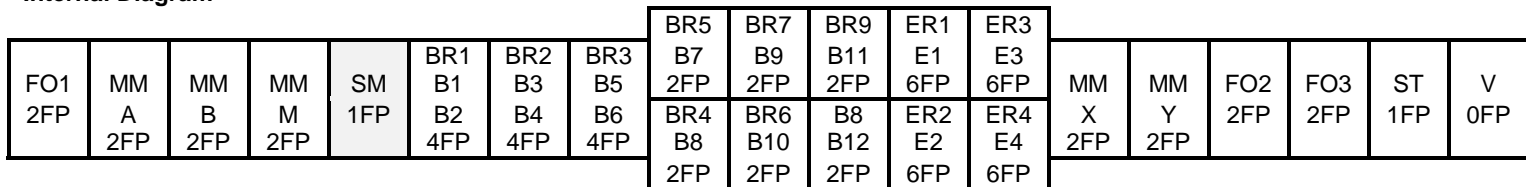
Notes

- Class included Chokai, Takao, Atago and Maya.
- Chokai and Maya were not refitted with their sisters. They retained a secondary battery of 4.7 inch guns in four single mounts (range 16 inches) and four twin 24 inch torpedo tubes. They also retained short rangefinders. These give a -1 modifier to main battery fire at ranges beyond 15 inches.
- Takao had Chokai's secondary battery until April 1942, Atago until May 1942.

Hits

	Fuel Oil	11-15	Officers Berths
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main B
	Main Magazine M	24-25	Main M
	Secondary Magazine	26	Officers Berths
	Boiler Room 1	31	Bridge, AAMGs
	Boiler Room 2	32	Forward Main Director, Funnel, Bridge
	Boiler Room 3	33	Port or Starboard Secondary Director, Torpedo 1 or 2, Torpedo Director
	Boiler Room 4 or 5	34	Secondary 1 or 2, AAMGs
	Boiler Room 6 or 7	35	Port or Starboard Reloads, Searchlight 1 or 2
	Boiler Room 6 or 7	36	Void
	Boiler Room 8 or 9	41	AAMGs, Torpedo 3 or 4
	Boiler Room 8 or 9	42	Aft Main Director, Searchlight 3 or 4, Secondary 3 or 4
	Engine Room 1 or 2	43-45	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	46-51	Aircraft
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-55	Main Y
	Fuel Oil 2	56-62	Crew Berths
	Fuel Oil 3, Propshaft 1 or 2	63	Crew Berths
	Fuel Oil 3, Propshaft 3 or 4	64	Crew Berths
	Steering	65	Steering
	Aft Void	66	Aft Void

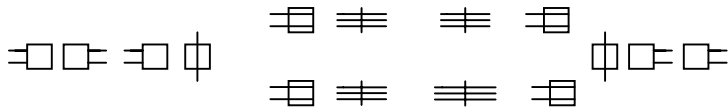
Internal Diagram



Mogami

<u>Navy Class</u>	Imperial Japanese Navy Heavy cruiser	<u>Date</u>	1940, as reconstructed			
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>			
Main Battery:	8 inch guns in 5 twin turrets	32 inches	Fore and aft			
Secondary Battery:	5 inch guns in 4 twin mounts	15 inches	Port and starboard			
Torpedoes:	24 inch torpedoes in 4 triple mounts 6 reloads	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Port and starboard			
<u>Speed</u>	4.25"	10 boilers	4 engines			
<u>Flotation</u>	Total: 62	DIW: 31	Sinking: 42			
<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54		<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3

Armament Arrangement



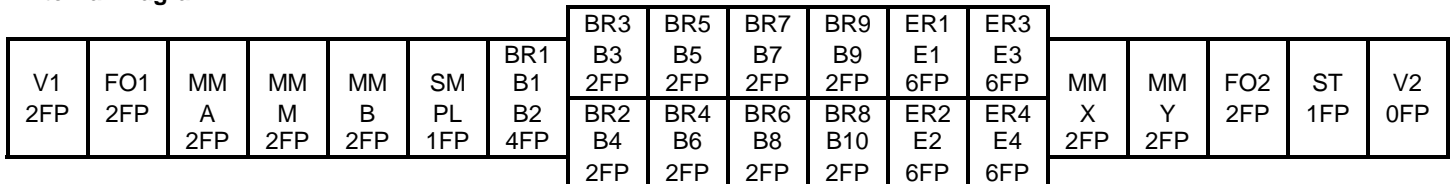
Notes

- Class included Mogami and Mikuma.

Hits

Void 1	11-15	Void 1
Fuel Oil 1	13	Officers Quarters
Main Magazine A	16-21	Main A
Main Magazine B	22-23	Main M
Main Magazine M	24-25	Main B
Secondary Magazine/Plot	26	AAMGs
Boiler Room 1	31	Bridge, Forward Main Director
Boiler Room 2	32	Port of Starboard Secondary Director, Bridge
Boiler Room 3	33	Funnel, Torpedo Director
Boiler Room 4 or 5	34	Secondary 1 or 2, Searchlight 1 or 2, Funnel
Boiler Room 6 or 7	35	AAMGs
Boiler Room 6 or 7	36	Funnel
Engine Room 1 or 2	41	Secondary 3, Searchlight 3 or 4, AAMGs
Engine Room 1 or 2	42	Torpedo 1 or 2
Engine Room 1 or 2	43	Aft Main Director, Port or Starboard Catapult, Aircraft
Engine Room 1 or 2	44	Port or Starboard Catapult, Aircraft
Engine Room 3 or 4	45	Port or Starboard Catapult, Aircraft, Torpedo 3 or 4
Engine Room 3 or 4	46	Aircraft
Engine Room 3 or 4	51	Aircraft
Main Magazine X	52-53	Main X
Main Magazine Y	54-55	Main Y
Fuel Oil 2	56-62	Crew Berths
Fuel Oil 2, Propshaft 1 or 2	63	Crew Berths
Fuel Oil 2, Propshaft 3 or 4	64	Crew Berths
Steering	65	Steering
Void 2	66	Void 2

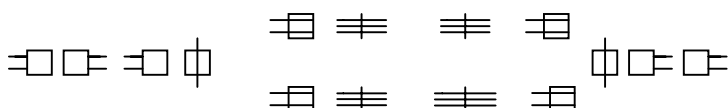
Internal Diagram



Suzuya

<u>Navy Class</u>	Imperial Japanese Navy Heavy cruiser	<u>Date</u>	1940, as reconstructed			
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>			
Main Battery:	8 inch guns in 5 twin turrets	32 inches	Fore and aft			
Secondary Battery:	5 inch guns in 4 twin mounts	15 inches	Port and starboard			
Torpedoes:	24 inch torpedoes in 4 triple mounts 6 reloads	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Port and starboard			
<u>Speed</u>	4.25"	8 boilers	4 engines			
<u>Flotation</u>	Total: 62	DIW: 31	Sinking: 42			
<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54		<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3

Armament Arrangement



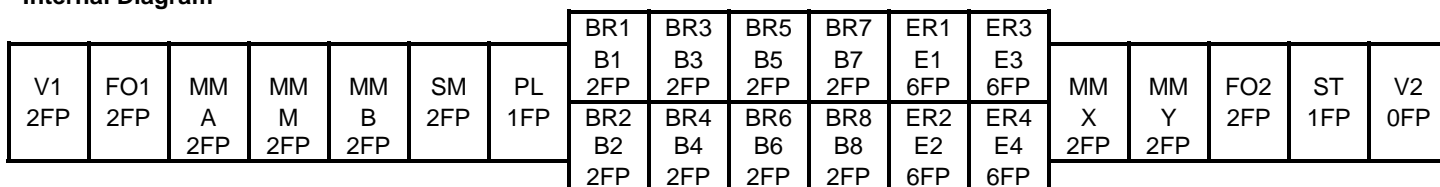
Notes

- Class included Suzuya and Kumano.

Hits

	Void 1	11-15	Void 1
	Fuel Oil 1	13	Officers Quarters
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main M
	Main Magazine M	24-25	Main B
	Secondary Magazine	26	AAMGs
	Plot	31	Bridge, Forward Main Director
	Boiler Room 1 or 2	32	Port of Starboard Secondary Director, Bridge
	Boiler Room 3 or 4	33	Funnel, Torpedo Director
	Boiler Room 3 or 4	34	Secondary 1 or 2, Searchlight 1 or 2, Funnel
	Boiler Room 5 or 6	35	AAMGs
	Boiler Room 7 or 8	36	Funnel
	Engine Room 1 or 2	41	Secondary 3, Searchlight 3 or 4, AAMGs
	Engine Room 1 or 2	42	Torpedo 1 or 2
	Engine Room 1 or 2	43	Aft Main Director, Port or Starboard Catapult, Aircraft
	Engine Room 1 or 2	44	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	45	Port or Starboard Catapult, Aircraft, Torpedo 3 or 4
	Engine Room 3 or 4	46	Aircraft
	Engine Room 3 or 4	51	Aircraft
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-55	Main Y
	Fuel Oil 2	56-62	Crew Berths
	Fuel Oil 2, Propshaft 1 or 2	63	Crew Berths
	Fuel Oil 2, Propshaft 3 or 4	64	Crew Berths
	Steering	65	Steering
	Void 2	66	Void 2

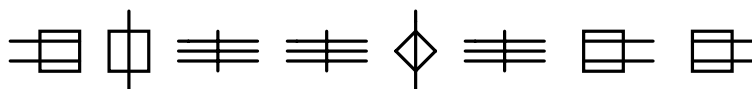
Internal Diagram



Fubuki

<u>Navy Class</u>	Imperial Japanese Navy Destroyer	<u>Date</u>	1940
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	5 inch guns in 3 twin mounts	18 inches	Fore
Torpedoes:	24 inch torpedoes in 3 triple mounts 9 reloads 3 special hits	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Aft
<u>Speed</u>	4.25	4 boilers	2 engines
<u>Flotation</u>	Total: 28	DIW: 14	Sinking: 18
		<u>Torpedo Hits</u>	17.7"-18": ±1 20.5"-22.5": ±3 24": ±5

Armament Arrangement



Notes

- Original "Special Type" destroyers -- a ground-breaking design.
- Nineteen in class.

Hits

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

Internal Diagram

FO1 1FP	PM A 1FP	FO2 FO 3FP	BR1 B1 B2 5FP	BR2 B3 B4 5FP	ER2 E1 4FP	ER2 E2 4FP	PM Y 2FP	FO3 2FP	ST 1FP
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