KOLOMBANGARA

0100 13 July 1943

Background: Shortly after the battle of Kula Gulf, the Japanese mounted a supply operation to land troops on Kolombangara. Admiral Halsey reinforced "Tip" Ainsworth's task force and ordered him to derail the "Tokyo Express."

Forces:

United States Navy Division 1: Honolulu (Brooklyn - flag) Rear Admiral Walden L. Leander (Leander) Ainsworth St. Louis (St. Louis)

> Division 2: Nicholas (Fletcher - flag) O'Bannon (Fletcher)

Taylor (Fletcher) Radford (Fletcher) Jenkins (Fletcher)

Division 3: Ralph Talbot (Bagley - flag)

Buchanan (Bristol) Gwin (Livermore) Maury (Gridley) Woodworth (Benson)

Nihon Kaigun Division 1:

Mikazuki (Mutsuki) Rear Admiral Izaki Jintsu (Sendai - flag) Shunji Yukikaze (Kagero) Hamakaze (Kagero) Kivonami (Yugumo)

Yugure (Hatsuharu)

Set-up:

N^

The Japanese are steaming in a line ahead formation with Mikazuki leading. They are on a course of 120 degrees. Mikazuki is 19 inches south of the north edge and 16 inches east of the west edge.

The Americans are in a line ahead formation in the following order of divisions: 2 - 1 - 3. Each division is led by its flagship. The formation is on a course of 270 degrees. Nicholas is 34 inches south of the north edge and 42 inches east of the west edge.

Victory Conditions: Victory is decided on points:

- a) 1 per Japanese destroyer or cruiser sunk;
- b) 2 per American destroyer sunk or American cruiser torpedoed but not sunk;
- c) 3 per American cruiser sunk.

Special Rules:

- 1. Both American cruisers have SG search radar, CICs and Mk 8 fire control radar. The Fletchers, Maury and Gwin have SG radars and CICs. All other American destroyers have SG radars. Leander has SG-type search radar and Mk 3-type fire control radar. Woodworth and Buchanan have SC radar. The Fletchers have Mk 12 fire control radar; all other American destroyers have Mk 4 fire control radar.
 - 2. The Japanese are alert.
 - 3. The night is open and shut, with the base visibility being rolled at the start of each turn (gunfire visibility factor of -5).

Outcome: American radar-controlled gunfire blotted out Jintsu, while Japanese torpedoes took Leander out of the battle. Ainsworth chased the retiring Japanese, but the American pursuit ended when the Japanese reloaded their torpedo tubes. The Japanese riposte sank Gwin and damaged both Honolulu and St. Louis.

Brooklyn

Date

Ranges

24 inches

15 inches

1942

Navy **United States Navy**

Class Heavy cruiser

4.25"

Surface Armament

Speed

Main Battery: 6 inch guns in 5 triple turrets Secondary Battery: 5 inch guns in 8 single mounts

Flotation Total: 70 DIW: 35 Sinking: 48

12 boilers 4 engines

> Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±2 24": ±3

Armament Arrangement



Notes

Directors

Fore and aft

Fore and aft

- Heavy cruiser size, but light cruiser guns.
- Class included Brooklyn, Honolulu and Boise.

Hits

11113			
Fuel Oil 1	11-15	Forward Void	
Main Magazine A	16-21	Main A	ı
Main Magazine B	22-24	Main B	ı
Main Magazine M	25-31	Main M	ı
Plot/CIC	32	Bridge, Foward Secondary Director, AAMGs	
Plot/CIC	33	Forward Primary Director, Secondary 1 or 2, Bridge, AAMGs	
Boiler Room 1	34	Search Radar	
Boiler Room 2	35	Funnel, Secondary 3 or 4	
Boiler Room 3	36	Searchlights 1 or 2	
Boiler Room 4	41	Secondary 5 or 6, Searchlights 3 or 4	
Boiler Room 4	42	Secondary 7 or 8, Funnel	
Engine Room 1	43-45	Void	
Engine Room 2	46	AAMGs, Aft Main Director	
Engine Room 2	51	AAMGs, Aft Secondary Director	
Main Magazine X Main Magazine Y	52-53 54-56	Main X Main Y	
Fuel Oil 2, Propshafts 1 or 2 Fuel Oil 2, Propshafts 3 or 4 Steering Void	61 62 63-64 65-66	Catapult 1 or 2 , Hanger Catapult 1 or 2 , Hanger Catapult 1 or 2, Hanger Hanger	•

FO1	PM	PM	PM	PL	BR1	BR2	BR3	BR4	ER1	ER2	PM	PM	FO2	ST	V
4FP	Α	В	M	2FP	B1	В3	B5	B7	E1	E3	X	Υ	2FP	1FP	1FP
	2FP	2FP	2FP		B2	B4	B6	B8	E2	E4	2FP	2FP			
					7FP	7FP	7FP	7FP	11FP	11FP					

St. Louis

Navy United States Navy Class Heavy cruiser

<u>Date</u> 1942 <u>Armor</u> no modifier

Surface Armament

Main Battery: 6 inch guns in 5 triple turrets
Secondary Battery: 5 inch guns in 4 twin mounts

RangesDirectors24 inchesFore and aft18 inchesFore and aft

Speed 4.25" 12 boilers 4 engines

Flotation Total: 70 DIW: 35 Sinking: 48

<u>Torpedo Hits</u> 17.7"-18": ±1 20.5"-22.5": ±2 24": ±3

Armament Arrangement





<u>Notes</u>

Variant of the *Brooklyn* class, with 5 inch 38 caliber guns in twin mounts and a revised internal arrangement.

In class: St. Louis, Helena.

Hits

Fuel Oil 1	11-15	Forward Void
Main Magazine A	16-21	Main A
Main Magazine B	22-24	Main B
Main Magazine M	25-31	Main M
Plot/CIC	32	Bridge, Foward Secondary Director, AAMGs
Boiler Room 1	33	Forward Primary Director, Bridge, AAMGs
Boiler Operating Station 1	34	Search Radar, Secondary 1 or 2
Boiler Room 2	35	Funnel, Secondary 1 or 2
Engine Room 1	36	Searchlights 1 or 2
Engine Room 1	41	AAMGs, Searchlights 3 or 4
Boiler Room 3	42	AAMGs, Funnel
Boiler Operating Station 2	43	Void
Boiler Room 4	44	Void
Engine Room 2	45	Secondary 3 or 4
Engine Room 2	46	AAMGs, Aft Main Director
Secondary Magazine		AAMGs, Aft Secondary Director
Main Magazine X		Main X
Main Magazine Y,	54-56	Main Y
Fuel Oil 2, Propshaft 1 or 2	61	Catapult 1 or 2, Hanger

Fuel Oil 2, Propshaft 1 or 2 61 Catapult 1 or 2, Hanger Fuel Oil 2, Propshaft 3 or 4 62 Catapult 1 or 2, Hanger Steering 63-64 Catapult 1 or 2, Hanger

Void 65-66 Hanger

FO1	PM	PM	PM	PL	BR1	BOS	BR2	ER1	BR3	BOS	BR4	ER2	PM	PM	FO2	ST	V
4FP	Α	В	M	2FP	B1	1	В3	E1	B5	2	B7	E3	Χ	Υ	2FP	1FP	1FP
	2FP	2FP	2FP		B2	4FP	B4	E2	B6	4FP	B8	E4	2FP	2FP			
					5FP		5FP	11FP	5FP		5FP	11FP					

Leander

Royal Navy, Royal Australian Navy, Royal Navy 1941

New Zealand Navy

Light cruiser Class

Surface Armament

Ranges **Directors** Main Battery: 6 inch guns in 4 twin turrets 25 inches Fore Secondary Battery: 4 inch guns in 4 twin mounts 16 inches Fore

Torpedoes: 21 inch torpedoes in 2 quadruple mounts 13 inches at 4.25" Port and starboard

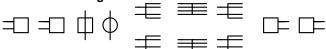
> 2 special hits 16 inches at 2.75"

Speed 4.00" 6 boilers 4 engines

DIW: 29 **Flotation** Total: 58 Sinking: 39

> Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±2 24": ±3

Armament Arrangement



Notes

- Five ships in class: Leander, Neptune, Orion, Achilles (RNZN), Ajax
- Sydney, Perth and Hobart were similar, but with unit machinery arrangements

Hits

Officers Berths 11-12 Void Fuel Oil 1 13-14 Void

Main A Main Magazine A 15-22

Main Magazine B 23-24 Main B

Secondary Magazine 25 Bridge Transmitting Room 26 Bridge, Main Director Boiler Room 1 31 Bridge, Secondary Director Boiler Room 1 32 Search Radar, Secondary 1 or 2

Funnel, Searchlight 1 or 2 Boiler Room 1 33 Funnel, Secondary 3 or 4 Boiler Room 2 34

Boiler Room 2 35 Torpedo 1 or 2

AAMGs Boiler Room 2 36 Boiler Room 3 Void 41

Boiler Room 3 42-43 Catapult, Aircraft Engine Room 1 44-45 Catapult, Aircraft

Engine Room 1 46 **AAMGs** Engine Room 2 51 Searchlight 3 Engine Room 2 52 **AAMGs**

Main Magazine X 53-55 Main X Main Magazine Y 56-62 Main Y Fuel Oil 2, Propshaft 1 or 2 63 Void

Fuel Oil 2, Propshaft 3 or 4 64 Void Steering 65 Steering

Void 66 Void

						BR1	BR2	BR3	ER1	ER3					
V1	FO1	FM	FM	SM	TR	B1	В3	B5	E1	E3	AM	AM	FO2	ST	V2
1FP	2FP	Α	В	2FP	1FP	B2	B4	В6	E2	E4	Χ	Υ	2FP	1FP	0FP
		2FP	2FP			7FP	7FP	7FP	11FP	11FP	2FP	2FP			

Fletcher

Navy United States Navy

<u>Class</u> Destroyer

Date 1942 Armor None

Surface Armament

Main Battery: Torpedoes: 5 inch guns in 5 single mounts

21 inch torpedoes in 2 quintuple mount

2 special hits

Ranges Directors

18 inches Fore

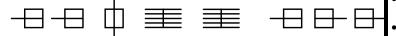
6 inches at 5.50" 10 inches at 3.25" Port and starboard

Speed 4.50 4 boilers 2 engines

Flotation Total: 30 DIW: 15 Sinking: 20

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

Armament Arrangement



Notes

- Most numerous class of USN fleet destroyers, with 175 ships in the class.
- Most early units built with twin 40mm mounts on the after pilothouse and the fantail. Some of the earliest (viz Fletcher) had one 1.1 inch mount on the pilothouse instead.

Hits

Fuel Oil 1 11-14 Void Forward Main Magazine 15-21 Main A

Fuel Oil 2 22-24 Main B

Fuel Oil 3 25 Bridge, AAMGs

Fuel Oil 3 26 Bridge, Main Director

Boiler Room 1 31 Search Radar Boiler Room 1 32-33 Funnel

Engine Room 1 34-36 Torpedo A

Boiler Room 2 41 Searchlight 1 or 2, Funnel

Boiler Room 2 42-43 Torpedo B

Boiler Room 2 44 AAMGs, Torpedo B

Engine Room 2 45 AAMGs, Main M

Engine Room 2 46 Main M

Engine Room 2 51 Main M

Aft Main Magazine 52 AAMGs Aft Main Magazine 53-55 Main X

Fuel Oil 4 56-62 Main Y

Void, Propshaft 1 or 2 63-64 Void

Steering 65-66 Steering [,AAMGs]

FO1	PM	FO2	FO3	BR1	ER1	BR2	ER2	PM	FO4	V	ST
1FP	A&B	FO	FO	B1	E1	В3	E2	MXY	3FP	1FP	1FP
	1FP	2FP	2FP	B2	4FP	B4	4FP	1FP			
				5FP		5FP					

Bagley/Gridley

United States Navy Navy

Destroyer Class

1942 <u>Date</u> <u>Armor</u> None

Surface Armament

Main Battery: 5 inch guns in 4 single mounts Torpedoes:

21 inch torpedoes in 4 quadruple mounts

2 special hits

Ranges 18 inches

6 inches at 5.50"

10 inches at 3.25"

Directors Fore

Port and starboard

2 engines **Speed** 4.50 4 boilers

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

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

Armament Arrangement

Notes

Twelve ships in both classes.

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, Bridge
Fuel Oil 2	26	Main Director, Bridge
Fuel Oil 2	31	Bridge
Boiler Room 1	32	Void
Boiler Room 1	33	Search Radar
Boiler Room 1	34	Funnel
Boiler Room 2	35-36	Funnel
Boiler Room 2	41	AAMGs
Engine Room	42-44	Torpedo 1 or 2
Engine Room	45-51	Torpedo 3 or 4
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, Propshaft 1 or 2	61-63	Main Y
Void, Propshaft 1 or 2	64	Void
Steering	65-66	Steering

FO1	FM	FO2	BR1	BR2	ER	AM	FO3	ST
1FP	A&B	3FP	B1	B3	E1	X&Y	1FP	1FP
	1FP		B2 5FP	B4 5FP	E2 9FP	1FP		

	Benson/Gleaves														
Navy Class		United States Navy Destroyer			1942 None										
Surface Armament Main Battery: Torpedoes:		5 inch guns in 5 sin 21 inch torpedoes in 2 special hits	gle mounts n 1 quintuple mount	Ranges 18 inches 6 inches at 5 10 inches at		<u>Directors</u> Fore Port and starboard									
<u>Speed</u>	4.50	4 boilers	2 engines	<u>Fires</u>	Mount: 4 AAMGs: 3	Magazine: 6	Fuel Oil: 4								
<u>Flotation</u>	Flotation Total: 27 DIW: 14 Sinking: 18				Mount: 3	Magazine: 4									
				Torpedo Hits	17.7"-18": ±1	20.5"-22.5": ±3	24": ±5								

Armament Arrangement 9 ships in class, including Benson, Gleaves, Lansdale and Plunkett (DD 421-428 and 431). Class built with had 5 guns and 10 tubes, but sacrificed one torpedo mount for increased AAMG armament. By 1944, all had had the torpedo mount restored and Main M removed.

Hits

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

ľ	FO1	MM	FO2	BR1	ER1	BR2	ER2	MM	FO3	ST
	1FP	A&B	3FP	B1	E1	B3	E2	XY	2FP	1FP
		1FP		B2	4FP	B4	4FP	1FP		
ı				5FP		5FP				

Bristol

Navy **United States Navy**

Destroyer Class

1942 Date None <u>Armor</u>

Surface Armament

Main Battery: Torpedoes:

5 inch guns in 4 single mounts

21 inch torpedoes in 1 quintuple mount

2 special hits

Ranges 18 inches

6 inches at 5.50"

10 inches at 3.25"

Directors Fore

Port and starboard

Speed 4.50

4 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





Notes

Many ships in this class.

Bristols (DD453 and up) built with 4 guns and 10 tubes, but modified to 4 guns and 5 tubes before they saw war service.

Hits

Fuel Oil 1 Forward Void 11-13 Fuel Oil 1 Main A

14

Forward Main Magazine 15-16 Main A Main B Forward Main Magazine 21-22

Fuel Oil 2 23 Main B

Fuel Oil 2 24 **AAMGs** Fuel Oil 2 25 Bridge

Fuel Oil 2 26 Main Director, Bridge

Search Radar Boiler Room 1 31 Funnel

Boiler Room 1 32-33 Torpedo A

Boiler Room 1 34

Engine Room 1 35-36 Torpedo A

Boiler Room 2 41-42 Funnel, AAMGs

Boiler Room 2 43 Void

Boiler Room 2 44 Searchlight

Engine Room 2 45 Void

Engine Room 2 46-51 **AAMGs** Aft Main Magazine 52 **AAMGs**

Aft Main Magazine 53-55 Main X

Fuel Oil 3, Propshaft 1 or 2 56-62 Main Y

Fuel Oil 3, Propshaft 1 or 2 63-64 Void

Steering 65-66 Steering

FO1	MM	FO2	BR1	ER1	BR2	ER2	MM	FO3	ST
1FP	A&B	3FP	B1	E1	B3	E2	XY	2FP	1FP
	1FP		B2	4FP	B4	4FP	1FP		
			5FP		5FP				

	Livermore										
Navy United States Navy Class Destroyer				1942 None							
Surface Armament Main Battery: Torpedoes:		5 inch guns in 4 sin 21 inch torpedoes in 2 special hits	gle mounts n 2 quintuple mounts	Ranges 18 inches 6 inches at 5 10 inches at		<u>Directors</u> Fore Port and starboard					
<u>Speed</u>	4.50	4 boilers	2 engines	<u>Fires</u>	Mount: 4 AAMGs: 4	Magazine: 6	Fuel Oil: 4				
<u>Flotation</u>	Total: 27	DIW: 14	Sinking: 18	Explosions	Mount: 3	Magazine: 4					
				Torpedo Hits	17.7"-18": ±1	20.5"-22.5": ±3	24": ±5				

Armament Arrangement • 15 ships in class, including Livermore, Gwin, Meredith, Grayson, Monssen and Nicholson (DD 429-430, 432-444). • Class built with had 5 guns and 10 tubes, but sacrificed one gun mount for increased AAMG armament.

Hits

11-13	Forward Void
14	Main A
15-16	Main A
21-22	Main B
23	Main B
24	AAMGs
25	Bridge
26	Main Director (1-3), Bridge (4-6)
31	Search Radar
32-33	Funnel
34	Torpedo A
35-36	Torpedo A
41-42	Funnel (1-3), AAMGs (4-6)
43	Torpedo B
44	Torpedo B
45	Torpedo B (1-3), Searchlight (4-6)
46-51	AAMGs
52	AAMGs
53-55	Main X
56-62	Main Y
63-64	Void
65-66	Steering
	14 15-16 21-22 23 24 25 26 31 32-33 34 35-36 41-42 43 44 45 46-51 52 53-55 56-62 63-64

micoma	<u>. –</u>			_					
FO1	MM	FO2	BR1	ER1	BR2	ER2	MM	FO3	ST
1FP	A&B	3FP	B1	E1	В3	E2	XY	2FP	1FP
	1FP		B2	4FP	B4	4FP	1FP		
			5FP		5FP				

Sendai

Imperial Japanese Navy Navy

Class Light cruiser Date 1942, as modified

Surface Armament

Main Battery: 5.5 inch guns in 7 single mounts Torpedoes: 24 inch torpedoes in 4 twin mounts

no reloads

20 inches 22 inches at 6.00"

Ranges

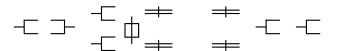
35 inches at 5.00"

44 inches at 4.50"

Speed 4.00" 10 boilers 4 engines

DIW: 28 Sinking: 36 Flotation Total: 55 <u>Torpedo Hits</u> 17.7"-18": ±1 20.5"-22.5": ±2 24": ±4

Armament Arrangement



Notes

Directors

Port and starboard

Fore

- · Sendai class included Sendai, Jintsu and Naka.
- In June 1943, Sendai traded her M2 gun for AAMGs.
- In April 1943, Naka traded her M2 gun for AAMGs and a twin 5" mount (range 15 inches).
- Naka and Jintsu had 2 quadruple torpedo mounts aft and none forward.

Hits

Void 1 Void 11-12 Forward Magazine 13-14 Main A Forward Magazine 15-16 Main M1 Plot 21 **AAMGs** 22 Fuel Oil 1 Bridge

Fuel Oil 1 23 Bridge, Main Director, Main 1 or 2 Fuel Oil 1 24 Main 1 or 2, Searchlight 1 or 2

Void

Boiler Room 2 26 Funnel Boiler Room 3 31-32 Torpedo 1 or 2 Boiler Room 3 Funnel, AAMGs 33 Boiler Room 3 34 **AAMGs**

Boiler Room 1

Boiler Room 3 35-36 Funnel Boiler Room 4 Torpedo Director 41

25

Boiler Room 4 42 Funnel Boiler Room 4 43 Torpedo 3 or 4

Engine Room 1 Torpedo 3 or 4 44 Engine Room 1 45 Main M2 Engine Room 2 46 Main M2

Engine Room 2 51 Searchlight 3 Aft Main Magazine 52-53 Main M3

Aircraft, Catapult Aft Main Magazine 54-55

Void 2 56-61 Aircraft, Catapult

Void 2 62 Main X Void 2, Propshaft 1 or 2 63 Main X Void 2, Propshaft 3 or 4 64 Void

65 Steering Steering Void 66 Void

				BR1	BR2	BR3	BR4	ER1	ER2				
V1	FM	PL	FO1	B1	B2	B3,4	B8,9	E1,2	E1,2	AM	V2	ST	V3
2FP	4FP	1FP	4FP	2FP	2FP	5,6	9,10	8FP	8FP	4FP	2FP	1FP	1FP
						8FP	8FP						

Mutsuki

Imperial Japanese Navy Navy

Destroyer-transport Class

Date 1942, as converted

<u>Armor</u> None

Surface Armament

Main Battery: Torpedoes:

4.7 inch guns in 2 single mounts 24 inch torpedoes in 2 triple mounts

No reloads

Ranges 18 inches 8 inches at 5.50" 16 inches at 4.50" Directors Fore Aft

3 special hits

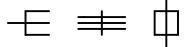
Speed 4.25 4 boilers

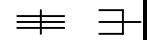
2 engines

Flotation Total: 27 DIW: 14 Sinking: 18

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

Armament Arrangement





Notes

- Twelve Mutsukis were converted to this role.
- These were the first destroyers to carry a 24 inch torpedo. They carried an early model of the torpedo, which was also found occasionally in Fubukis and light cruisers.

Hits

Fuel Oil 1 Forward Void 11-13 Forward Magazine Mount A 14-16 Crew Spaces 21-23 Torpedo A Fuel Oil 2 24 Bridge

Boiler Room 1 25 Bridge, Main Director

Boiler Room 1 26-31 Funnel

Boiler Room 1 AAMGs, Supply Area 32 Boiler Room 2 33-35 AAMGs, Supply Area

Boiler Room 2 36 Funnel Engine Room 1 41 Searchlight

AAMGs, Supply Area AAMGs, Supply Area Engine Room 1 42-44 Engine Room 2 45

Engine Room 2 46-52 Torpedo B Aft Magazine Main M 53-54

55-56 Aft Magazine AAMGs, Supply Area

Fuel Oil 3, Propshaft 1 or 2 61-64 Aft Void Steering

Steering 65-66

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

Asashio/Kagero/Yugumo

Navy Imperial Japanese Navy

<u>Class</u> Destroyer

<u>Date</u> 1942 <u>Armor</u> None

Surface Armament

Main Battery: Torpedoes: 5 inch guns in 3 twin mounts

24 inch torpedoes in 2 quadruple mounts

8 reloads 3 special hits Ranges 18 inches 22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50" Directors Fore Aft

Speed 4.50 3 boilers

Flotation Total: 28

DIW: 14

Sinking: 18

2 engines

Torpedo Hits

17.7"-18": ±1

20.5"-22.5": ±3 24": ±5

Armament Arrangement



Notes

- All three classes were similar in game terms.
- Ten Asashios, 18 Kageros and 20 Yugumos were built.
- Use cruiser turn radius for Asashio class.

Hits

Fuel Oil 1 11-13 Void

Forward Main Magazine 14-21 Main A

Fuel Oil 2 22 Void Fuel Oil 2 23-24 Bridge

Boiler Boom 1 25 Main Director, Bridge

Boiler Boom 1 26 Void Boiler Boom 1 31 Reload A

Boiler Room 2 32 Reolad A

Boiler Boom 2 33 Funnel Boiler Boom 2 34 Torpedo A

Boiler Boom 3 35 Torpedo A

Boiler Boom 3 36 AAMGs Boiler Boom 3 41 Funnel

Engine Room 42 Searchlight

Engine Room 43-44 Torpedo B
Engine Room 45 Torpedo Director

Engine Room 46 Reload B

Void 51 Reload B

Aft Main Magazine 52-54 Main X

Aft Main Magazine 55-61 Main Y

Propshaft 1 or 2, Fuel Oil 3 62-64 Aft Void

Steering 65-66 Steering

		=======================================								
FO1 1FP	PM A 1FP	FO2 FO 4FP	BR1 B1 3FP	BR2 B2 3FP	BR3 B3 3FP	ER E1,E2 6FP	V 2FP	PM Y 2FP	FO3 2FP	ST 1FP

Hatsuharu/Shiratsuyu

Navy Imperial Japanese Navy

<u>Class</u> Destroyer

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

Ranges

18 inches

Surface Armament

Main Battery:

5 inch guns in 2 twin mounts and 1 single

mount

Torpedoes: 24 ir

24 inch torpedoes in 2 triple mounts 6 reloads

3 special hits

22 inches at 6.00"

35 inches at 5.00" 44 inches at 4.50"

Speed 4.25 3 boilers

Flotation Total: 28

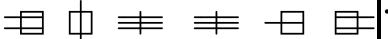
DIW: 14

Sinking: 18

2 engines

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

Armament Arrangement



Notes

Directors

Fore

Aft

- Successor classes to the Fubukis and Akatsukis, extensively modified after the original design proved to be unstable.
- Shiratsuyus were similar, with quadruple torpedo mounts vice the triples, and 8 reloads rather than 6.

Hits

Fuel Oil 1 11-13 Forward Void

Forward Main Magazine 14-21 Main A

Fuel Oil 2 22 Void

Fuel Oil 2 23-24 Bridge

Boiler Room 1 25 Bridge, Main Director

Boiler Room 1 26-31 Void
Boiler Room 1 32 Funnel
Boiler Room 1 33-34 Torpedo A
Boiler Room 2 35 Torpedo A

Boiler Room 2 36 AAMGs, Torpedo Reload A

Boiler Room 2 41 Funnel, Torpedo Reload A Engine Room 1 42 Searchlight

Engine Room 1 42 Searchlight
Engine Room 1 43-44 Torpedo B
Engine Room 2 45 Torpedo B
Engine Room 2 46 Torpedo Director
Engine Room 2 51-52 Torpedo Reload B

Aft Main Magazine 53-54 Main M Aft Main Magazine 55-61 Main Y Propshaft 1 or 2, Fuel Oil 3 62-64 Void

Steering 65-66 Steering

FO1 1FP	PM A 1FP	FO2 FO 3FP	BR1 B1 B2	BR2 B3 3FP	ER2 E1 4FP	ER2 E2 4FP	PM MY 2FP	FO3 2FP	ST 1FP
			6FP						