NAVAL BATTLE OF GUADALCANAL -- THE CAPITAL SHIP ACTION

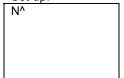
2248 14 November 1942

Background: At 2235 the light forces action effectively ended, and the surviving American destroyers retired to the south. The American battleships became separated when they turned in opposite directions to avoid their sinking destroyers. The battlewagon duel began about 15 minutes later, when Kondo's heavy units emerged from behind Savo and let fly at South Dakota.

Forces:

Nihon Kaigun Vice Admiral Kondo Nobutake	Division 3	Nagara Shirayuki Hatsuyuki Samidare Inazuma	(Nagara flag) (Fubuki) (Fubuki) (Shiratsuyu) (Akatsuki)
	Division 4	Asagumo Terutsuki	(Asashio flag) (Akitsuki)
	Division 5	Atago Takao Kirishima	(Takao flag) (Takao) (Kongo)
United States Navy Rea Admiral Willis A.	Division 2	Washington	(North Carolina flag)
Lee	Independent Ship:	South Dakota	(South Dakota)

Set-up:



Savo Island is a circle with a 2 inch radius centered 10 inches from the north edge and on the east edge.

Japanese Division 4 leads Division 5 in ships' order, line-ahead. The divisions are on a course of 270 (due west). The leading ship is 17 inches from the east edge and 8 inches from the north edge. Japanese Division 3 is on a course of 300 degrees, 8 inches from the east edge and 14 inches from the north edge.

Both the Washington and the South Dakota are on courses of 300 degrees. South Dakota is 9 inches from the east edge and 18 inches from the north edge. Washington is 12 inches from the east edge and 18 inches from the north edge.

Victory Conditions:

- a) 1 point per destroyer sunk
- b) 2 points per light cruiser sunk
- c) 3 points per heavy cruiser sunk or DIW
- d) 5 points per battleship sunk or battlecruiser sunk or DIW
- e) 1 point per torpedo hit on a battleship

Special Rules:

- 1. The Japanese can move freely from the start of the scenario.
- 2. The Japanese are alert.
- 3. The USN battleships have SG radar and Mark 12 fire control radar. The battleships have a radar blind spot in their aft quadrants; their SG radar cannot spot in the 90 degree arc centered on the stern of the ship.
- 4. B turret on South Dakota is inoperable.
- 5. The visual sighting base is **12**, with a visibility state of **-4** -- clear with a first-quarter moon below the horizon.
- 6. Savo Island blocks both radar and visual spotting attempts.
- 7. The South Dakota is subject to the independent ship movement rules until she joins with Washington.
- 8. The Japanese 3rd Division has no torpedoes ready.

Outcome: South Dakota drew fire from the Japanese heavy ships. While the "SoDak" took substantial damage, Washington was left unengaged. She finished Kirishima with 9 16" hits, while the Atago and Takao took hits as well. The Japanese retired, sure that they had sunk an American battleship. In fact, South Dakota lived through her ordeal, but Kirishima was scuttled the next morning. The last Japanese attempt to regain Guadalcanal had failed.

Akitsuki

Date

Ranges

20 inches

22 inches at 6.00"

35 inches at 5.00"

44 inches at 4.50"

Imperial Japanese Navy Navy

Antiaircraft Destroyer Class

Surface Armament

Anti-aircraft

Main Battery: 3.9 inch guns in 4 twin mounts

Torpedoes: 24 inch torpedoes in 1quadruple mounts

4 reloads 3 special hits

Heavy: 3

Heavy MGs: 0

Directors

Fore and aft

Aft

4.25" Speed 3 boilers 2 engines

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

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

Armament Arrangement



Notes

Purpose-designed as antiaircraft destroyers to escort fast carriers, but frequently used as flagships.

Twelve in class.

1942

Light MGs: 2

Hits

Fuel Oil 1 11-14 Void

Forward Main Magazine 15-21 Main A Forward Main Magazine Main B 22-24

Fuel Oil 2 25 Void Boiler Room 1 26 Bridge

Boiler Room 1 Forward Main Director, Bridge 31

Boiler Room 1 32 Funnel Boiler Room 2 33-41 Funnel Boiler Room 2 **AAMGs**

Boiler Room 2 42 Torpedo Director

Engine Room 1 43-45 Torpedo A

Engine Room 2 Searchlight, Torpedo Reload 46

Torpedo Reload Engine Room 2 51 Engine Room 2 52 Aft Main Director

Aft Main Magazine 53-55 Main X Aft Main Magazine Main Y 56-62 Propshaft 1 or 2, Fuel Oil 3 63-64 Aft Void

65-66 Steering Steering

2FP 3FP 6FP 4FP 2FP

Fubuki

Date

Ranges

<u>Navy</u> Imperial Japanese Navy

<u>Class</u> Destroyer

Surface Armament

Main Battery: 5 inch guns in 3 twin mounts
Torpedoes: 24 inch torpedoes in 3 triple mounts

9 reloads 3 special hits 18 inches 22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"

1940

Fore Aft

Directors

<u>Speed</u> 4.25 4 boilers 2 engines

Flotation Total: 28 DIW: 14 Sinking: 18

Torpedo Hits 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

Torpedo A Boiler Room 1 32 33-34 Torpedo A Boiler Room 2 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 Torpedo Reload C Engine Room 2 51-52

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

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

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 18 inches 22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"

Ranges

Directors Fore Aft

Speed 4.50 3 boilers 2 engines

Flotation Total: 28 DIW: 14 Sinking: 18

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 Torpedo A 34 Torpedo A Boiler Boom 3 35 AAMGs Boiler Boom 3 36 Boiler Boom 3 Funnel 41

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	ER2 E1,E2 6FP	V 2FP	PM Y 2FP	FO3 2FP	ST 1FP				

Akatsuki

Date

Ranges

18 inches

1942, as refit

Navy Imperial Japanese Navy

<u>Class</u> Destroyer

Surface Armament

Main Battery: 5 inch guns in 2 twin mounts
Torpedoes: 24 inch torpedoes in 3 triple mounts

6 reloads 3 special hits es in 3 triple mounts 22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"

Anti-aircraft Heavy: 2 Heavy MGs: 0 Light MGs: 1

Speed 4.25" 3 boilers 2 engines

Flotation Total: 28 DIW: 14 Sinking: 18

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

Armament Arrangement

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Notes

Similar to the Fubukis, but with 3 boilers. Six in the class.

Directors

Fore and aft

Port and starboard

Hits

Fuel Oil 1 11-13 Forward Void

Forward Main Magazine 14-16 Main A

Fuel Oil 2 21-22 Void

Fuel Oil 2 23 Bridge

Fuel Oil 2 24 AAMGs, Main Director

25 Boiler Room 1 Bridge Boiler Room 1 26 Funnel Torpedo A Boiler Room 1 31 32-33 Torpedo A Boiler Room 2 Boiler Room 2 34 AAMGs Boiler Room 2 35 Funnel Boiler Room 2 36 Reload B

Engine Room 1 41 Searchlight, AAMGs

Engine Room 1 42-44 Torpedo B
Engine Room 2 45 Torpedo Director
Engine Room 2 46-52 Torpedo C
Aft Main Magazine 53 AAMGs

Aft Main Magazine 54-55 Reload C
Aft Main Magazine 56-62 Main Y
Propshaft 1 or 2, Fuel Oil 3 63-64 Aft Void

Steering 65-66 Steering

FO1 1FP	PM A 1FP	FO2 FO 4FP	BR1 B1 3FP	BR2 B3 B4 6FP	ER2 E1 4FP	ER2 E2 4FP	PM Y 2FP	FO3 2FP	ST 1FP
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Hatsuharu/Shiratsuyu

Imperial Japanese Navy Navy

Destroyer Class

1940 Date None <u>Armor</u>

Ranges

18 inches

Surface Armament

Main Battery:

5 inch guns in 2 twin mounts and 1 single

Torpedoes: 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"

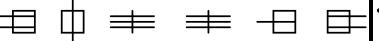
Speed 4.25 3 boilers 2 engines

DIW: 14 Flotation Total: 28

Sinking: 18

<u>Torpedo Hits</u> 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.
- Shiratsuvus were similar, with quadruple torpedo mounts vice the triples, and 8 reloads rather than 6.

Hits

Fuel Oil 1 Forward Void 11-13

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

AAMGs, Torpedo Reload A Boiler Room 2 36 Boiler Room 2 Funnel, Torpedo Reload A 41

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

O1 FP	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						

Nagara/Kuma

Date

Navy Imperial Japanese Navy

<u>Class</u> Light cruiser

Surface Armament

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

no reloads

Ranges
20 inches
22 inches at 6 00'

22 inches at 6.00"

35 inches at 5.00" 44 inches at 4.50"

2

1942, as modified

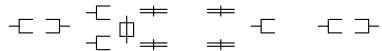
Fore Port and starboard

<u>Directors</u>

Speed 4.00" 12 boilers 4 engines

Flotation Total: 53 DIW: 27 Sinking: 36 <u>Torpedo Hits</u> 17.7"-18": ±1 20.5"-22.5": ±2 24": ±4

Armament Arrangement



Notes

- Nagara class included Abukuma, Isuzu, Kinu, Nagara, Natori and Yura.
- Kuma class included Kiso, Kitakami, Kuma, Oi and Tama.
- In 1943, many in both classes had their M2 guns replaced with AAMGs, while some also replaced their X guns with a twin 5" mount.
- Abukuma had 2 quadruple 24inch torpedo tubes aft <u>vice</u> four twin mounts.

Hits

Void 1	11-12	Void
Forward Magazine	13-14	Main A
Forward Magazine	15-16	Main M1
Plot		AAMGs
Fuel Oil 1	22	Bridge
Fuel Oil 1	23	Bridge, Main Director, Main 1 or 2
Fuel Oil 1	24	Main 1 or 2, Searchlight 1 or 2
Boiler Room 1	25	Torpedo 1 or 2
Boiler Room 2	26	Torpedo 1 or 2
Boiler Room 2	31	Funnel, AAMGs
Boiler Room 3	32	Funnel, AAMGs
Boiler Room 3	33	AAMGs
Boiler Room 3		Funnel
Boiler Room 4	36	Torpedo Director
Boiler Room 4	41	Funnel
Engine Room 1	42	Funnel
Engine Room 1	43	Torpedo 3 or 4
Engine Room 1	44	Torpedo 3 or 4
Engine Room 2	45	Main M2
Engine Room 2	46-51	Aircraft, Catapult
Aft Main Magazine	52-53	Aircraft, Catapult
Aft Main Magazine		Main M3
Void 2	56-61	Main X
Void 2	62	Void
Void 2, Propshaft 1 or 2	63	Void
Void 2, Propshaft 3 or 4	64	Void
Steering	65	Steering

Void

Internal Diagram

				BR1	BR2	BR3	BR4	ER1	ER2				
V1	FM	PL	FO1	B1	B2,3	B4,5,	B8,9	E1,2	E1,2	AM	V2	ST	V3
2FP	4FP	1FP	4FP	2FP	4FP	6,7	4FP	8FP	8FP	4FP	2FP	1FP	1FP
						8FP							

66

Void

Takao

Date

Ranges

32 inches

15 inches

22 inches at 6.00"

35 inches at 5.00"

44 inches at 4.50"

Torpedo Hits

Navy Imperial Japanese Navy

<u>Class</u> Heavy cruiser

Surface Armament

Speed

Main Battery: 8 inch guns in 5 twin turrets Secondary Battery: 5 inch guns in 4 twin mounts

Torpedoes: 24 inch torpedoes in 4 quadruple mounts

8 reloads

3 special hits

12 boilers 4 engines

Flotation Total: 66 DIW: 33 Sinking: 44

Bulge -1 to torpedo hits in way of locations 21-54

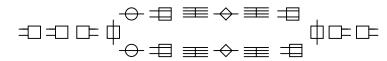
17.7"-18": ±1

1942, as reconstructed

20.5"-22.5": ±2 24": ±3

Armament Arrangement

4.25"



Aft Void

66

Aft Void

Notes

Directors

Fore and aft

Port and starboard

Port and starboard

- 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

			_	_		_		BR5	BR7	BR9	ER1	ER3						
					BR1	BR2	BR3	B7	В9	B11	E1	E3						
FO1	MM	MM	MM	SM	B1	B3	B5	2FP	2FP	2FP	6FP	6FP	MM	MM	FO2	FO3	ST	V
2FP	Α	В	М	1FP	B2	B4	В6	BR4	BR6	B8	ER2	ER4	Х	Υ	2FP	2FP	1FP	0FP
	2FP	2FP	2FP		4FP	4FP	4FP	B8	B10	B12	E2	E4	2FP	2FP				
								2FP	2FP	2FP	6FP	6FP						

Kongo

Ranges

1940

Imperial Japanese Navy Navy

Battlecruiser Class

Surface Armament Main Battery: 14 inch guns in 4 twin turrets

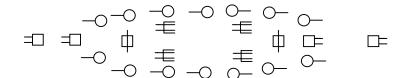
38 inches Fore and aft Secondary Battery: 6 inch guns in 14 single casements 21 inches Port and starboard Anti-air Battery 5 inch guns in 4 twin mounts 14 inches Port and starboard

3.75 inches 4 engines 16 boilers <u>Speed</u>

<u>Flotation</u> Total: 66 DIW: 33 Sinking: 44

> Torpedo Hits 17.7"-18": ±0 20.5"-22.5": ±1 24": ±3

Armament Arrangement



Notes

Directors

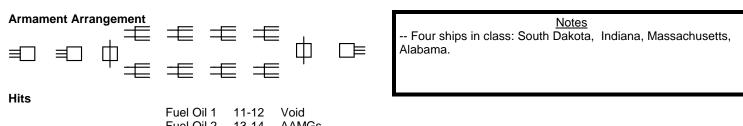
- Four ships in class, including Kongo, Hiei, Kirishima,
- Where the hit chart indicates that a location with secondary armament is armored, only the secondary armament is armored.

Hits

Fuel Oil 1	11-12	Void	
Fuel Oil 2	13-14	Void	
Main Magazine A	15-21	Main A	
Main Magazine B	22-24	Main B	
Secondary Magazine	25	Bridge, Secondary 1 or 2, Forward Primary Director	<u> </u>
Boiler Room 1 or 2	26	Bridge,	IJ
Boiler Room 1 or 2	31	Bridge, Antiair 1or 2, Secondary 3 or 4	
Boiler Room 3 or 4	32	Searchlight 1 or 2, Secondary 5 or 6	
Boiler Room 3 or 4	33	AAMGs, Funnel	
Boiler Room 5 or 6	34	: Secondary 7 or 8	
Boiler Room 5 or 6	35	AAMGs	
Boiler Room 7 or 8	36	Catapult, Aircraft, Secondary 9 or 10	
Boiler Room 7 or 8	41	Funnel, Searchlight 3 or 4, AAMGs	
Primary Magazine X	42	Secondary 11 or 12, Anti-air 3 or 4	
Primary Magazine X	43-45	Main X	ı
Engine Room 1 or 2	46	: Secondary 13 or 14	
Engine Room 1 or 2	51-52	AAMGs	
Engine Room 3 or 4	53-55	Void	
Main Magazine Y		Main Y	
Fuel Oil 3	63	Void	
Fuel Oil 3, Propshaft 1 or 2	64	Void	
Fuel Oil 4, Propshaft 3 or 4	65	AAMGs	
Steering	66	Steering	

			_	=	_	BR1	BR3	BR5	BR7		ER1	ER3					
						B1	В3	B5	B7		E1	E3					l
	FO1	FO2	PM	PM	SM	3FP	3FP	3FP	3FP	PM	5FP	5FP	PM	FO3	FO4	ST	
	1FP	2FP	Α	В	2FP	BR2	BR4	BR6	BR8	Χ	ER2	ER4	Υ			1FP	l
			2FP	2FP		B2	B4	B6	B8	2FP	E2	E4	2FP	2FP	2FP		
٠						3FP	3FP	3FP	3FP		5FP	5FP		•			

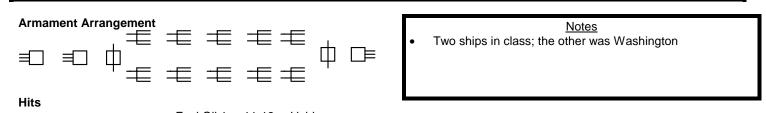
South Dakota United States Navy 1942 Navy **Date** Class Battleship <u>Directors</u> Fore and aft Surface Armament Ranges 16 inch guns in 3 triple turrets Main Battery: 37 inches Secondary Battery: 5 inch guns in 8 twin mounts 18 inches Fore and aft 3.75" 4 engines Speed 8 boilers **Flotation** Total: 64 DIW: 32 Sinking: 42 <u>Bulge</u> -1 for torpedo hits in way of locations 26-Torpedo Hits 17.7"-18": 50% 20.5"-22.5": ±0 24": ±1

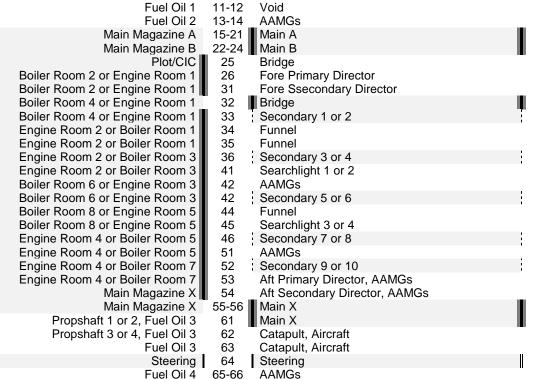


i dei Oli i	11-12	Void	
Fuel Oil 2	13-14	AAMGs	
Main Magazine A	15-21	Main A	
Main Magazine B	22-24	Main B	
Plot/CIC	25	Bridge	
Boiler Room 2 or Engine Room 1	26	Forward Primary Director	
Boiler Room 2 or Engine Room 1	31	Forward Secondary Director	
Boiler Room 4 or Engine Room 1	32	Bridge	
Boiler Room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

	_	_	_	_	_	ER1		BKI	BK3	ER3		BK5	BK/		_	_		
	V1	FO	FM	FM	CIC	E1		B1	B3	E3		B5	B7	AM	FO3	ST	FO4	
	1FP	2FP	Α	В	Plot	6FP	_	3FP	3FP	6FP	=	3FP	3FP	Υ	2FP	2FP	2FP	
			2FP	2FP	1FP	BR2	BR4	ER2		BR6	BR8	ER4		2FP			1	
						B2	B4	E2		В6	B8	E4						l
,						3FP	3FP	6FP		3FP	3FP	6FP						

North Carolina United States Navy 1942 <u>Navy</u> **Date** Class Battleship Surface Armament **Directors** Ranges 16 inch guns in 3 triple turrets Main Battery: 37 inches Fore and aft Secondary Battery: 5 inch guns in 10 twin mounts 18 inches Fore and aft 3.75" 4 engines **Speed** 8 boilers Sinking: 42 **Flotation** Total: 64 DIW: 32 Bulge -1 for torpedo hits in way of locations 26-Torpedo Hits 17.7"-18": 50% 20.5"-22.5": ±0 24": ±1





		-	=	=	=	ER1		BR1	BR3	ER3		BR5	BR7		=			_
	FO1	FO2	FM	FM	CIC	E1		B1	В3	E3		B5	B7	AM	FO3	ST	FO4	ı
	1FP	2FP	Α	В	Plot	6FP	=	3FP	3FP	6FP	_	3FP	3FP	Υ	2FP	2FP	2FP	l
			2FP	2FP	1FP	BR2	BR4	ER2		BR6	BR8	ER4		2FP			İ	l
						B2	B4	E2		В6	B8	E4						l
,						3FP	3FP	6FP		3FP	3FP	6FP						