

NORTH CAPE -- THE PURSUIT

1221 26 December 1943

Background: The battleship Duke of York was in a position to intercept Scharnhorst, but first the German battlecruiser had to be found and tracked. The British cruisers, now in company with a division of destroyers, found her again about 3 hours after the first action and engaged.

Forces:

Royal Navy	Division 1	Sheffield	(Southampton)
Vice-Admiral R. L. Burnett		Belfast	(Belfast -- flag)
		Norfolk	("County" Class)
	Division 2	Musketeer	("M" Class -- flag)
		Matchless	("M" Class)
		Opportune	("O" Class)
		Virago	("V" Class)
Kriegsmarine	Division 1	Scharnhorst	(Scharnhorst)
Rear-Admiral Erich Bey			

Set-up:



German Division 1 is on a course of 240, 24 inches from the north edge and 36 inches from the east edge.

British Division 1 is on a course of 060 in a line abreast formation running north-south, with Scharnhorst bearing 060 and 11 inches away from the northernmost cruiser. North to south, the cruisers are: Belfast, Sheffield and Norfolk. There is 1 1/2 inches between ships. British Division 2 is also on a course of 060

on a north-south line, with 1 inch separating each ship. The flagship is northernmost, and is 2 inches due east of Norfolk.

Victory Conditions:

The German Player received 2 points for each British cruiser sunk, 1 point for each British destroyer sunk, and 1 point for exiting off any edge of the playing area.

The British player receives 4 points for Scharnhorst sunk, 2 points for Scharnhorst reduced to less than half speed and 2 point for having Scharnhorst in visual or radar contact when she exits the playing area.

Special Rules:

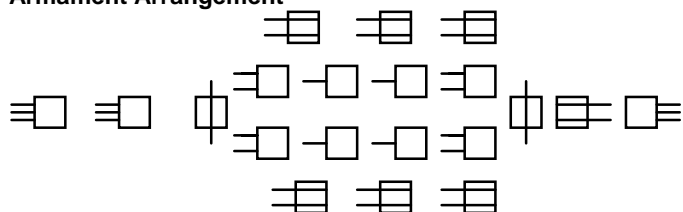
1. All British cruisers have 273, 281, 284 and 285 radar and CICs. All British destroyers have 271, 281 and 285 radar.
2. Seas are heavy. Scharnhorst is limited to a speed of 3.75 inches, cruisers and destroyers to a speed of 3.00 inches.
3. Visibility is 6 inches with a gunfire modifier of -5 -- essentially night due to the Arctic gloom and the heavy weather.

Outcome: The forces charged at each other, with the range closing to 4000 yards. Bey concentrated fire on Norfolk but, although he hit her repeatedly, he failed to knock her out of the action. Scharnhorst sheered away to the south before the British could close to torpedo range and Burnett was content to shadow, knowing that Bey was unwittingly headed towards the Duke of York.

Scharnhorst

<u>Navy Class</u>	Deutsches Kriegsmarine Battleship	<u>Date</u>	1941
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	11 inch guns in 3 triple turrets	45 inches	Fore and aft
Secondary Battery:	5.9 inch guns in 4 twin and 4 single mounts	24 inches	Fore and aft
Anti-air Battery	4.1 inch guns in 7 twin mounts	16 inches	Four-cornered
<u>Speed</u>	3.75"	12 boilers	3 engines
<u>Flotation</u>	Total: 68	DIW: 34	Sinking: 46
<u>Bulge</u>	-1 for torpedo hits in way of locations 24-53		<u>Torpedo Hits</u> 17.7"-18": 50% 20.5"-22.5": ±0 24": ±1

Armament Arrangement



Notes

- Gneisenau was other ship in class
- Scharnhorst added 2 triple torpedo mounts in 1943 as shown. Speeds: 8 inches @ 5.00", 13 inches @ 3.75". Two special hits. Directors port and starboard.

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
Plot/CIC	25	Bridge
Diesel Room	26	Bridge, Forward Secondary Director
Boiler Room 1	31	Bridge, Secondary 1 or 2, Forward Main Director
Boiler Room 1	32	Anti-air Director 1 or 2
Boiler Room 2	33	Anti-air 1 or 2
Boiler Room 2	34	Secondary 3 or 4
Secondary Magazine	35	Anti-air 3 or 4, Funnel, Searchlight 1 or 2
Boiler Room 3	36	Secondary 5 or 6, Funnel
Boiler Room 3	41	Anti-air Director 3 or 4
Engine Room 1 or 2	42	Hanger, Anti-air 5 or 6
Engine Room 1 or 2	42	Hanger
Engine Room 1 or 2	44	Searchlight 3 or 4, Catapult
Engine Room 3	45	Secondary 7 or 8, Catapult
Engine Room 3	46	Aft Main Director
Engine Room 3	51	AAMGs
Engine Room 3	52	Anti-air 7
Main Magazine X	53-55	Main X
Center Propshaft, Fuel Oil 3	56	Void
Port or Starboard Propshaft, Fuel Oil 3	61	Void
Fuel Oil 3	62	Void [Torpedo 1 or 2]
Steering	63	Void [Torpedo 1 or 2]
Steering	64	Steering
Fuel Oil 4	65-66	AAMGs

Internal Diagram

FO1 1FP	FO2 2FP	FM A 2FP	FM B 2FP	FCS Plot 1FP	DR 6FP	BR1 B1-4 6FP	BR2 B5-8 6FP	SM 2FP	BR3 B9- 12 6FP	ER1 12FP	E1 E2	ER3 E3 12FP	AM Y 2FP	FO3 3FP	ST 1FP	FO4 2FP
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Belfast

<u>Navy Class</u>	Royal Navy Heavy cruiser	<u>Date</u>	1942
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	6 inch guns in 4 triple turrets	25 inches	Fore and aft
Secondary Battery:	4 inch guns in 4 twin mounts	16 inches	Port, starboard and aft
Torpedoes:	21 inch torpedoes in 2 triple mounts 2 special hits	13 inches at 4.25" 16 inches at 2.75"	Port and starboard
<u>Speed</u>	4.00"	4 boilers	4 engines
<u>Flotation</u>	Total: 67	DIW: 33	Sinking: 44
		<u>Torpedo Hits</u>	17.7"-18": ±1 20.5"-22.5": ±2 24": ±3

Armament Arrangement



Notes

- Similar to Southampton class, but with re-arranged internal spaces.
- Two in class: Belfast and Edinburgh
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Hits

Officers Berths	11-12	Void
Fuel Oil 1	13-14	Void
Main Magazine A	15-21	Main A
Main Magazine B	22-24	Main B
Main Magazine B	25	Bridge
Transmitting Room	26	Bridge, Main Director
Secondary Magazine	31	Bridge, Forward Secondary Director 1 or 2
Secondary Magazine	32	Search Radar, Aircraft
Boiler Room 1	33	AAMGs, Aircraft
Boiler Room 1	34	Funnel, AAMGs
Boiler Room 1	35	Catapult
Engine Room 1	36	Void
Engine Room 1	41	Funnel
Engine Room 1	42	Secondary 1 or 2, Searchlight
Boiler Room 2	43-44	Torpedo 1 or 2
Boiler Room 2	45	Torpedo 1 or 2
Engine Room 2	46	Secondary 3 or 4
Engine Room 2	51	AAMGs, Aft Secondary Director
Engine Room 2	52	Aft Secondary Director, Aft Primary Director
Main Magazine X	53-55	Main X
Main Magazine Y	56-62	Main Y
Fuel Oil 2, Propshaft 1 or 2	63-64	Void
Steering, Propshaft 3 or 4	65	Steering
Void	66	Void

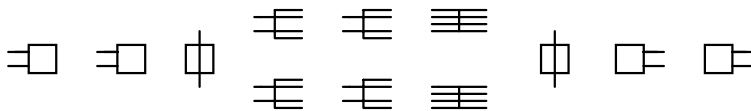
Internal Diagram

V1	FO1	FM	FM	TR	SM	BR1	ER1	BR2	ER2	AM	AM	FO2	ST	V
1FP	2FP	A	B	1FP	2FP	B1	E1	B3	E3	X	Y	2FP	1FP	0FP
		2FP	2FP			B2	E2	B4	E4	X	Y			
						14FP	11FP	14FP	11FP	2FP	2FP			

"County"

<u>Navy Class</u>	Royal Navy Heavy cruiser	<u>Date</u>	1942 (Cumberland modeled)	
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>	
Main Battery:	8 inch guns in 4 twin turrets	29 inches	Fore and aft	
Secondary Battery:	4 inch guns in 4 twin mounts	16 inches	Port and starboard	
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>	4.00"	8 boilers	4 engines	
<u>Flotation</u>	Total: 67	DIW: 34	Sinking: 44	
		<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2 24": ±3

Armament Arrangement



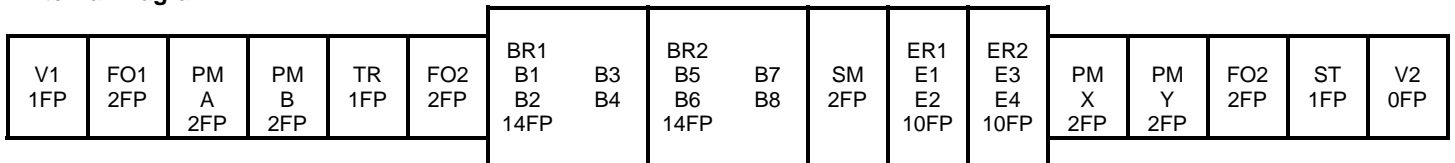
Notes

- Five ships in class, including Kent, Berwick, Cornwall, Cumberland, Suffolk
- Only Kent had torpedo tubes.

Hits

	Officers Berths	11-12	Void
	Fuel Oil 1	13-14	Void
	Main Magazine A	15-21	Main A
	Main Magazine B	22-24	Main B
	Main Magazine B	25	Bridge
	Transmitting Room	26	Bridge, Forward Main Director
	Fuel Oil 2	31	Bridge Port or Starboard Secondary Director [Bridge.]
	Boiler Room 1	32	Search Radar, AAMGs
	Boiler Room 1	33	Funnel, Secondary 1 or 2
	Boiler Room 1	34	Torpedo 1 or 2 [Void]
	Boiler Room 1	35	Torpedo 1 or 2 [Void]
	Boiler Room 2	36	Funnel, Secondary 3 or 4
	Boiler Room 2	41	Funnel
	Boiler Room 2	42-43	Catapult, Aircraft
	Secondary Magazine	44	Aircraft
	Engine Room 1	45	Aircraft
	Engine Room 1	46	Searchlight A or B
	Engine Room 2	51	Aft main director [Secondary director]
	Engine Room 2	52	Void
	Main Magazine X	53-55	Main X
	Main Magazine Y	56-62	Main Y
	Fuel Oil 3, Propshaft 1 or 2	63	Void
	Fuel Oil 3, Propshaft 3 or 4	64	Void
	Steering	65	Steering
	Void	66	Void

Internal Diagram



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Southampton

<u>Navy Class</u>	Royal Navy Heavy cruiser	<u>Date</u>	1942
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	6 inch guns in 4 triple turrets	25 inches	See Notes
Secondary Battery:	4 inch guns in 4 twin mounts	16 inches	See Notes
Torpedoes:	21 inch torpedoes in 2 triple mounts 2 special hits	13 inches at 4.25" 16 inches at 2.75"	Port and starboard
<u>Speed</u>	4.00"	4 boilers	4 engines
<u>Flotation</u>	Total: 67	DIW: 33	Sinking: 44
		<u>Torpedo Hits</u>	17.7"-18": ±1 20.5"-22.5": ±2 24": ±3

Armament Arrangement



Hits

Officers Berths	11-12	Void
Fuel Oil 1	13-14	Void
Main Magazine A	15-21	Main A
Main Magazine B	22-24	Main B
Main Magazine B	25	Bridge
Transmitting Room	26	Bridge, Main Director
Boiler Room 1	31	Bridge, Forward Secondary Director 1 or 2
Boiler Room 1	32	Search Radar, Aircraft
Boiler Room 1	33	Funnel, AAMGs, Aircraft
Engine Room 1	34	AAMGs
Engine Room 1	35	Catapult
Engine Room 1	36	Void
Boiler Room 2	41-42	Funnel
Boiler Room 2	43	Secondary 1 or 2, Searchlight
Secondary Magazine	44	Torpedo 1 or 2
Secondary Magazine	45	Torpedo 1 or 2
Engine Room 2	46	Secondary 3 or 4
Engine Room 2	51	AAMGs [Aft Secondary Director]
Engine Room 2	52	[Aft Secondary Director] [Aft Primary Director]
Main Magazine X	53-55	Main X
Main Magazine Y	56-62	Main Y
Fuel Oil 2, Propshaft 1 or 2	63-64	Void
Steering, Propshaft 3 or 4	65	Steering
Void	66	Void

Notes

- Eight ships in class, including Newcastle and Sheffield.
- All has a forward primary director and port and starboard directors forward. Sheffield, Birmingham and Glasgow have a third secondary director aft. Manchester, Liverpool and Gloucester also had a second primary director aft.

Internal Diagram

V1 1FP	FO1 2FP	FM A 2FP	FM B 2FP	TR 1FP	BR1 B1 B2 14FP	ER1 E1 E2 11FP	BR2 B3 B4 14FP	SM 2FP	ER2 E3 E4 11FP	AM X 2FP	AM Y 2FP	FO2 2FP	ST 1FP	V 0FP
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“J/K/N/M” Classes

<u>Navy Class</u>	Royal Navy Destroyer	<u>Date</u>	1940
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4.7 inch guns in 3 twin mounts	18 inches	Fore
Torpedoes:	21 inch torpedoes in 1 quintuple mount 2 special hits	13 inches at 4.25" 16 inches at 2.75"	Port and starboard
<u>Speed</u>	4.50	2 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

- Twenty-four Js and similar Ks and Ns were built.
- Most gave up a torpedo mount to ship a 4 inch anti-aircraft gun. This is treated as an AAMG for game purposes.
- Twelve Ls and Ms were similar, but with 4.7 inch guns in turrets (range 21 inches) and 2 quadruple torpedo mounts.

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	Search Radar
Boiler Room 1	34	Funnel
Boiler Room 2	35-36	Funnel
Boiler Room 2	41	AAMGs
Engine Room	42-44	Torpedo A
Engine Room	45-51	AAMGs [Torpedo B]
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	Void
Propshaft 1 or 2	63-64	Void
Steering	65-66	Steering

Internal Diagram

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

“O/P/S/V/U” Classes

<u>Navy Class</u>	Royal Navy Destroyer	<u>Date</u>	1941
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4 inch guns in 4 single mounts	17 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	2 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

- Seventy-one units in classes O through W.
- Some of units of the O and P classes had 4 4.7" guns (range of 17"). The 4.7" gun-armed Os and Ps gave up the aft set of torpedo tubes for a 4" AA gun. The gun cannot engage surface targets. Oribi, Onslow, Onslaught and Offa had 4.7s.
- The Qs through Vs (except Savage) all had 4 4.7s and no 4" gun. Their 4.7s could elevate to 55 degrees, giving them a measure of main battery antiaircraft capability

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	Search Radar
Boiler Room 1	34	Funnel
Boiler Room 2	35-36	Funnel
Boiler Room 2	41	AAMGs
Engine Room	42-44	Torpedo A
Engine Room	45-51	Torpedo B
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 5FP	BR2 B3 5FP	ER E1 E2 9FP	AM X&Y 1FP	FO3 1FP	ST 1FP
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