

DUISBERG ACTION

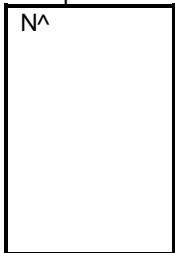
0040 9 November 1941

Background: In response to Churchill's prodding, the Admiralty assigned a small cruiser-destroyer force to Malta to raid Italian convoys en route to North Africa. This was the famous Force K. In November, the force got its chance.

Forces:

Royal Navy Captain William G. Agnew	Division 1:	Aurora Lance Penelope Lively	(Arethusa - flag) ("L" Class) (Arethusa) ("L" Class)
Regia Marina Admiral Bruno Brivonesi	Division 1:	Trieste Trento Granatiere Fuciliere Bersagliere Alpino	(Trento - flag) (Trento) (Soldati) (Soldati) (Soldati) (Soldati)
	Division 2:	Maestrale Libeccio Grecale Oriani Euro Fulmine	(Maestrale - flag) (Maestrale) (Maestrale) (Oriani) (Turbine) (Folgore)
	Convoy	Minatitlan Maria Sagitta Duisberg San Marco Conte di Misurata Rina Corrada	(Large Merchant) (Large Merchant) (Small Merchant Ammunition Ship) (Large Merchant) (Small Merchant Tanker) (Small Merchant Gasoline Tanker) (Small Merchant)

Set-up:



The British friendly edge is the west edge, and the Italian friendly edge is the south edge.

The Convoy starts 15 inches from the north edge and 12 inches from the east edge. It is in a double column with the first three ships steaming in the east column, from south to north, in the order given. The next three ships are steaming similarly in the west column. The seventh ship is immediately behind both columns and equidistant between them. All ships are steaming due south -- course 180 -- at 1.00". An inch separates the two columns.

Division 2 is the convoy escort, and is split into two columns. The first column consists of Maestrale, Fulmine and Grecale, steaming in that order one inch to the west of the convoy. The second column consists of the Libeccio,

Oriani and Euro, steaming in that order one inch to the east of the convoy. Both columns of destroyers are steaming at 1.00". Italian Division 1 starts 18 inches from the east edge and 3 inches from the north edge. It is steaming due south in the order shown, cruisers leading.

The British start 15 inches from the north edge and 18 inches from the east edge. They are steaming on a course of 30 degrees in the order given, Aurora leading.

Victory Conditions: Victory is decided on points:

- 1 per Italian merchantman sunk;
- 1 per British destroyer sunk;
- 2 per British cruiser sunk.

Special Rules.

1. The convoy must continue to steam on the same course at the same speed. The escorts are not subject to independent movement if they move with the convoy. If they do not, the ships in the western column of escorts must roll for independent movement until they join with a flagship.

2. No Italian ship may alter speed or course or fire guns or torpedoes until a British ship fires guns or an Italian ship is torpedoed.

3. No Italian ship may illuminate with starshells or searchlights unless it rolls a **1** on 1D6. An Italian ship rolling to illuminate still fires starshell from the mount or uses the searchlight, even if it fails to illuminate an enemy ship.

4. Base visibility is **12** inches, with a visibility level of **-4--** a bright moon with scattered clouds. For the Italians, the visibility level is considered to be **-10**.

5. Aurora has 290 search radar and 284 fire control radar. Penelope has 281 search radar and 284 and 285 fire control radars. The "L" destroyers have 285 fire control and 286 search radars.

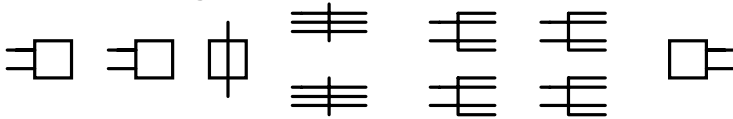
6. Optional: Rules 1, 2 and 3 simulate the extreme confusion that gripped the Italians in this action. To give the Italians more of a chance, ignore these rules. Note that the ships of the convoy are subject to independent movement if they vary course or speed.

Outcome: The British paraded up and down past the convoy and pummeled it with torpedoes and gunfire. The escort first thought that the British were their supporting cruisers, and the cruisers apparently did not realize that the British were there until the convoy was demolished. When the smoke cleared, all seven merchantmen and an Italian destroyer were sinking. The British suffered only minor damage.

Arethusa

<u>Navy Class</u>	Royal Navy Light cruiser	<u>Date</u>	1941
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	6 inch guns in 3 twin turrets	25 inches	Forward
Secondary Battery:	4 inch guns in 4 twin mounts	16 inches	Forward
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: 66	DIW: 33	Sinking: 44
<u>Torpedo Hits</u> 17.7"-18": ±1 20.5"-22.5": ±3 24": ±4			

Armament Arrangement



Notes

- Four ships in class: Arethusa, Galatea, Penelope and Aurora.
- Aurora had no aircraft or catapult. Treat hits in 36-42 as void hits.
- Penelope has secondary director aft in place of searchlight.

Hits

Fuel Oil 1	11-12	Void
Main Magazine A	13-14	Void
Main Magazine A	15-21	Main A
Main Magazine B	22-24	Main B
Main Magazine B	25	Bridge
Secondary Magazine	26	Bridge, Main Director
Secondary Magazine	31	Bridge
Transmitting Room	32	Secondary Director
Boiler Room 1	33	Search Radar
Boiler Room 1	34	AAMGs
Boiler Room 1	35	Funnel, Searchlight 1 or 2
Engine Room 1	36	Void
Engine Room 1	41	AAMGs
Engine Room 1	42	Void
Engine Room 1	43	Void
Boiler Room 2	44	Torpedo 1 or 2
Boiler Room 2	45	Torpedo 1 or 2, Funnel
Boiler Room 2	46	Funnel
Engine Room 2	51	Secondary 1 or 2
Engine Room 2	52-53	AAMGs
Engine Room 2	54	Secondary 3 or 4
Main Magazine Y	55	Aft Secondary Director, Searchlight 3
Main Magazine Y	56-62	Main Y
Fuel Oil 2, Propshaft 1 or 2 (4-6)	63	Void
Fuel Oil 2, Propshaft 3 or 4	64	Void
Steering	65	Steering
Void	66	Void

Internal Diagram

V1 1FP	FO1 2FP	FM A 2FP	FM B 2FP	SM 2FP	TR 1FP	BR1 B1 B2 14FP	ER1 E1 E2 11FP	BR2 B3 B4 14FP	ER2 E3 E4 11FP	AM Y 2FP	FO2 2FP	ST 2FP	V2 0FP
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“L” Class

<u>Navy Class</u>	Royal Navy Destroyer	<u>Date</u> <u>Armor</u>	1941 None
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4 inch guns in 4 twin 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
<u>Torpedo Size:</u>			

Armament Arrangement



Notes

- The "L" class of destroyers were meant to be near twins of the "Js" and "Ks," but some were completed with 8 antiaircraft guns rather than 6 single-purpose guns.
- Those equipped with this battery were Lance, Gurkha, Legion and Lively.

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

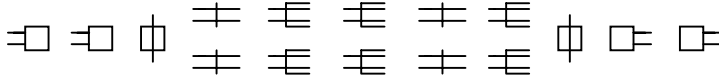
Internal Diagram

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

<u>Navy Class</u>		Regia Marina Heavy cruiser		<u>Date</u>	1940
<u>Surface Armament</u>				<u>Ranges</u>	<u>Directors</u>
Main Battery:		8 inch guns in 4 twin turrets		31 inches	Forward and aft
Secondary Battery:		3.9 inch guns in 6 twin mounts		15 inches	Port and starboard
Torpedoes:		21 inch torpedoes in 4 twin mounts 2 special hits		5 inches at 6.00" 9 inches at 4.75 13 inches at 3.75"	Port and starboard
<u>Speed</u>	4.25"	12 boilers	4 engines		
<u>Flotation</u>	Total: 62	DIW: 31	Sinking: 42		
				<u>Torpedo Hits</u>	17.7"-18": ±1 20.5"-22.5": ±3 24": ±4

Armament Arrangement



Notes

- Two ships in class: Trento, Trieste.
- ER1 drives props 1 and 3. ER2 drives props 2 and 4.

Hits

	Void	11-12	Catapult
	Av Gas	13-14	Void
	Fuel Oil	15-21	Void
	Fuel Oil	22	Main A
Forward Magazine	23	Main A	
Forward Magazine	24-25	Main B	
Boiler Room 1	26	Aircraft	
Boiler Room 1	31	Bridge, Searchlight 1 or 2	
Boiler Room 1	32	Bridge, Main Director	
Boiler Room 2	33	Bridge, Secondary Director 1 or 2, AAMGs	
Boiler Room 2	34-35	Funnel	
Amidships Magazine	36	Funnel	
Amidships Magazine	41	Secondary 1 or 2	
Engine Room 1	42	Secondary 3 or 4	
Engine Room 1	43	Secondary 5 or 6	
Engine Room 1	44-45	Torpedo 1 or 2	
Boiler Room 3	46-51	Funnel	
Boiler Room 3	52	AAMGs	
Engine Room 2	53-54	Torpedo 3 or 4	
Engine Room 2	55	AAMGs	
Aft Magazine	56-61	Main X	
Aft Magazine	62	Main Y	
Props 1 or 2	63	Main Y	
Props 3 or 4	64	Void	
Steering	65	Steering	
Void	66	Void	

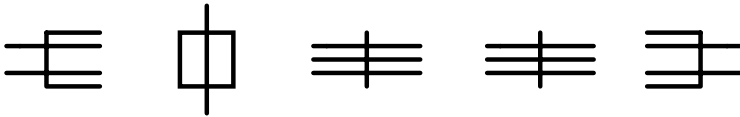
Internal Diagram

V1 1FP	V2 2FP	FM A 2FP	FM B 2FP	BR1 B1-4 9FP	BR2 B5-8 9FP	MM 2FP	ER1 E1 E2 10FP	BR2 B9-12 9FP	ER2 E3 E4 10FP	AM X 2FP	AM Y 2FP	V3 2FP	V4 2FP Prps
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“Soldati/Maestrale/Oriani” Classes

<u>Navy</u>	Regia Marina	<u>Date</u>	1941
<u>Class</u>	Destroyer	<u>Armor</u>	None
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4.7 inch guns in 2 twin mounts	19 inches	Fore
Torpedoes:	21 inch torpedoes in 2 triple mounts	5 inches at 6.00"	Port and starboard
	2 special hits	9 inches at 4.75	
		13 inches at 3.75"	
<u>Speed</u>	4.75	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

- Twelve ships in class.
- Maestrale class, with four units, and Oriani class, with four units, were similar in game terms.
- Camicia Nera, Carabiniere, Geniere and Lanciere had the midships mount shown.

Hits

Fuel Oil 1	11-14	Forward Void
Fuel Oil 1	15	Void
Forward Main Magazine	16-21	Void
Forward Main Magazine	22-23	Main A
Fuel Oil 2	24	Main A
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	AAMGs
Fuel Oil 2	31	Bridge
Boiler Room 1	32	Main Director
Boiler Room 1	33	Void
Boiler Room 1	34	Funnel
Boiler Room 1	35	Funnel
Boiler Room 2	36	Funnel
Boiler Room 2	41	Torpedo A
Engine Room	42-43	Torpedo A
Engine Room	44-45	AAMGs [Main M]
Engine Room	46-51	Torpedo B
Aft Main Magazine	52	Torpedo B
Aft Main Magazine	53	Searchlight
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 1FP	FM A&B 1FP	FO2 3FP	BR1 B1 B2 6FP	BR2 B3 4FP	ER E1 E2 9FP	AM X&Y 1FP	FO3 1FP	ST 1FP
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Turbine Class

<u>Navy Class</u>	Regia Marina Destroyer	<u>Date</u>	1941
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4.7 inch guns in 2 twin mounts	19 inches	Fore
Torpedoes:	21 inch torpedoes in 2 triple mounts 2 special hits	5 inches at 6.00" 9 inches at 4.75 13 inches at 3.75"	Port and starboard
<u>Speed</u>	4.25	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

- Eight ships in class.
- Sauro class, with four units, was similar in game terms.

Hits

Fuel Oil 1	11-14	Forward Void
Fuel Oil 1	15	Void
Forward Main Magazine	16-21	Void
Forward Main Magazine	22-23	Main A
Fuel Oil 2	24	Main A
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	Bridge
Fuel Oil 2	31	Main Director
Boiler Room	32	Searchlight
Boiler Room	33-34	Funnel
Boiler Room	35	Void
Boiler Room	336	Funnel
Boiler Room	41	Torpedo A
Engine Room	42-43	Torpedo A
Engine Room	44-45	AAMGs
Engine Room	46-51	Torpedo B
Aft Main Magazine	52	Torpedo B
Aft Main Magazine	53	Void
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 1FP	FM A&B 1FP	FO2 3FP	BR B1,2 10FP	ER E1 E2 9FP	AM X&Y 1FP	FO3 1FP	ST 1FP
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Folgore Class

<u>Navy Class</u>	Regia Marina Destroyer	<u>Date</u>	1941
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	4.7 inch guns in 2 twin mounts	19 inches	Fore
Torpedoes:	21 inch torpedoes in 2 triple mounts 2 special hits	5 inches at 6.00" 9 inches at 4.75 13 inches at 3.75"	Port and starboard
<u>Speed</u>	4.00	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

- Four ships in class, three of which were sunk in surface actions.
- Dardo class, with four units, were similar in game terms.

Hits

Fuel Oil 1	11-14	Forward Void
Fuel Oil 1	15	Void
Forward Main Magazine	16-21	Void
Forward Main Magazine	22-23	Main A
Fuel Oil 2	24	Main A
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	AAMGs
Fuel Oil 2	31	Bridge
Boiler Room	32	Main Director
Boiler Room	33	Void
Boiler Room	34	Funnel
Boiler Room	35-36	Funnel
Boiler Room	41	Torpedo A
Engine Room	42-43	Torpedo A
Engine Room	44-45	AAMGs
Engine Room	46-51	Torpedo B
Aft Main Magazine	52	Torpedo B
Aft Main Magazine	53	Searchlight
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 1FP	FM A&B 1FP	FO2 3FP	BR B1,2,3 10FP	ER E1 E2 9FP	AM X&Y 1FP	FO3 1FP	ST 1FP
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Merchantman (engine aft)

<u>Navy Class</u>	Merchantman Engine aft			<u>Date</u> <u>Armor</u>	1942 None		
<u>Speed</u>	1.00"-2.00"	2 boilers	1 engine	<u>Torpedo Hits</u>	17.7"-18":	20.5"-22.5":	24":
				<u>Small</u>	±3	±6	±9
				<u>Medium</u>	±2	±4	±6
				<u>Large</u>	±1	±3	±5
<u>Flotation</u>	Total:	DIW:	Sinking:				
<u>Small</u>	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

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

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