

Scenario: Dogger Operation Harwich, Battlecruiser Fleet

Initial conditions

Wind E at 10 knots
Visibility 22,000 yards (44 inches), steady

Table with columns: Unit, Position (inches), Course, Speed (ord/max/unit), Ammunition (rpg) (AP / Other). Rows include Tyrwhitt, 10thHF, Nicholson, 9thFlot, StJohn, 4thFlot.

POSITIONS (operational movement)

Table with columns: Time, Flagship, Position (NM), Course, Speed. Includes sighting report for Harwich at 16:11 Hrs.

Disposition conditions

Wind E at 10 knots
Visibility 22,000 yards (44 inches), steady

Table with columns: Unit, Position (inches), Course, Speed (ord/max/unit), Ammunition (rpg) (AP / Other). Rows include Tyrwhitt, 10thHF, Nicholson, 9thFlot, StJohn, 4thFlot.

Turn 111 16:20 Hrs Real Time 07:17:19 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Table with columns: Unit, Lead, screen, out of form, Pos (in.), Crs, Spd(ord/cur/avg /max/unit). Rows include Tyrwhitt, 10thHF, Nicholson, 9thFlot, StJohn, 4thFlot.

HITS

Heavy caliber Medium caliber

Turn 112 16:25 Hrs Real Time 07:17:36 AM 05/08/2021

REPORTS for Harwich

10th Half Flotilla (7) reports smoke bearing SE, about 25 NM, 4 columns
10th Half Flotilla (7) reports smoke bearing SSE, about 25 NM
10th Half Flotilla (7) reports smoke bearing SE, about 25 NM, multiple ships
10th Half Flotilla (7) reports smoke bearing SSE, about 25 NM, multiple ships
Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Table with columns: Unit, Lead, screen, out of form, Pos (in.), Crs, Spd(ord/cur/avg /max/unit). Row includes Tyrwhitt.

10thHF	-----	10th Half Flotilla (7)(7 - 19N 62E	135	20	20	20.0	29	--
Nicholson	---	Aurora -----	25N 48E	164	23	23	23.0	28 0
9thFlot	-----	9th Flotilla (14)(14) ----	21N 49E	164	23	23	23.0	29 --
StJohn	-----	Undaunted -----	34N 58E	135	20	20	18.2	28 0
4thFlot	-----	4th Flotilla (14)(14) ----	33N 58E	131	29	23	19.0	29 --

HITS Heavy caliber Medium caliber

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 Turn 113 16:30 Hrs Real Time 07:17:53 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt	---- Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF	----- 10th Half Flotilla (7)(7 - 19N 62E		135	20 20 20.0 29 --
Nicholson	--- Aurora -----	23N 47E	135	20 20 20.2 28 0
9thFlot	----- 9th Flotilla (14)(14) ----	20N 50E	135	20 20 20.8 29 --
StJohn	----- Undaunted -----	34N 58E	135	20 20 20.0 28 0
4thFlot	----- 4th Flotilla (14)(14) ----	31N 60E	135	20 20 22.0 29 --

HITS Heavy caliber Medium caliber

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 Turn 114 16:35 Hrs Real Time 07:20:13 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt	---- Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF	----- 10th Half Flotilla (7)(7 - 19N 62E		135	20 20 20.0 29 --
Nicholson	--- Aurora -----	23N 47E	135	20 20 20.0 28 0
9thFlot	----- 9th Flotilla (14)(14) ----	20N 50E	135	20 20 20.0 29 --
StJohn	----- Undaunted -----	34N 58E	135	20 20 20.0 28 0
4thFlot	----- 4th Flotilla (14)(14) ----	31N 60E	135	20 20 20.0 29 --

HITS Heavy caliber Medium caliber

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 Turn 115 16:40 Hrs Real Time 07:21:05 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt	---- Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF	----- 10th Half Flotilla (7)(7 - 19N 62E		135	20 20 20.0 29 --
Nicholson	--- Aurora -----	23N 47E	135	20 20 20.0 28 0
9thFlot	----- 9th Flotilla (14)(14) ----	20N 50E	135	20 20 20.0 29 --
StJohn	----- Undaunted -----	34N 58E	135	20 20 20.0 28 0
4thFlot	----- 4th Flotilla (14)(14) ----	31N 60E	135	20 20 20.0 29 --

HITS Heavy caliber Medium caliber

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 Turn 116 16:45 Hrs Real Time 07:21:53 AM 05/08/2021

REPORTS for Harwich

Sighted 3 funneled cruiser ----- -20N 61E, Crs 270, Spd 25 from 10th Half Flotilla (7)

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	19N 62E	135	20 20 20.0 29 --
Nicholson ---	Aurora -----	23N 47E	135	20 20 20.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	20N 50E	135	20 20 20.0 29 --
StJohn -----	Undaunted -----	34N 58E	135	20 20 20.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	31N 60E	135	20 20 20.0 29 --

HITS Heavy caliber Medium caliber

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 Turn 117 16:50 Hrs Real Time 07:27:29 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	31N 57E	349	29 22 19.6 29 --
Nicholson ---	Aurora -----	23N 49E	126	28 25 24.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	30N 50E	058	29 22 19.6 29 --
StJohn -----	Undaunted -----	32N 58E	144	28 25 24.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	36N 55E	144	25 22 19.6 29 --

HITS Heavy caliber Medium caliber

Orders for turn 118

Unit	Lead Ship	Crs	Spd	Formation	Primary/Torpedo Target
Tyrwhitt ----	Arethusa -----	135	20	independent	auto / auto
10thHF -----	10th Half Flotilla (7) ---	349	29	independent	n/a / auto
	Station on Undaunted			bearing 180,	3000 yards
Nicholson ---	Aurora -----	126	28	independent	auto / auto
	Station on Arethusa			bearing 180,	500 yards
9thFlot -----	9th Flotilla (14) -----	058	29	independent	n/a / auto
	Station on Undaunted			bearing 180,	4000 yards
StJohn -----	Undaunted -----	144	28	independent	auto / auto
	Station on Arethusa			bearing 180,	1000 yards
4thFlot -----	4th Flotilla (14) -----	144	25	independent	n/a / auto
	Station on Undaunted			bearing 180,	2000 yards

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 Turn 118 16:55 Hrs Real Time 07:30:00 AM 05/08/2021

REPORTS for Harwich

Sighted 4 funneled cruiser ----- -22N 20E, Crs 270, Spd 25 from Lowestoft
 Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	36N 54E	148	25 18 21.8 29 --
Nicholson ---	Aurora -----	24N 51E	123	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	37N 53E	148	25 25 25.4 29 --
StJohn -----	Undaunted -----	30N 57E	148	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	34N 55E	148	25 25 22.6 29 --

HITS Heavy caliber Medium caliber

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 Turn 119 16:60 Hrs Real Time 07:33:30 AM 05/08/2021

REPORTS for Harwich

Sighted Seydlitz class BC ----- -30N 22E, Crs 270, Spd 25 from Lowestoft
 Sighted Moltke class BC ----- -30N 22E, Crs 270, Spd 25 from Lowestoft
 Sighted Derfflinger class BC ----- -30N 23E, Crs 270, Spd 25 from Lowestoft
 Sighted 4 funneled cruiser ----- -35N 05E, Crs 345, Spd 20 from Lowestoft
 Apparent wind on Arethusa from ESE at 27 knots (2 points to port)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	22N 59E	135	20 20 20.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	33N 54E	146	24 24 22.8 29 --
Nicholson ---	Aurora -----	24N 53E	124	24 24 23.8 28 0
9thFlot -----	9th Flotilla (14)(14) ----	35N 53E	146	24 24 20.8 29 --
StJohn -----	Undaunted -----	28N 57E	146	24 24 23.8 28 0
4thFlot -----	4th Flotilla (14)(14) ----	32N 55E	146	24 24 24.0 29 --

HITS

Heavy caliber Medium caliber

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 Turn 120 17:05 Hrs Real Time 07:45:28 AM 05/08/2021

REPORTS for Harwich

Sighted 2 funneled cruiser ----- -25N 17E, Crs 270, Spd 25 from Lowestoft
 Sighted 7 destroyers ----- -21N 14E, Crs 270, Spd 25 from Lowestoft
 Apparent wind on Arethusa from SSE at 27 knots (2 points to port)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	19N 55E	170	26 25 23.4 28 0
10thHF -----	10th Half Flotilla (7)(7 -	31N 53E	170	25 23 23.4 29 --
Nicholson ---	Aurora -----	21N 51E	158	25 25 23.8 28 0
9thFlot -----	9th Flotilla (14)(14) ----	33N 52E	170	25 23 23.8 29 --
StJohn -----	Undaunted -----	25N 54E	170	25 25 24.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	29N 53E	170	25 25 23.6 29 --

HITS

Heavy caliber Medium caliber

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 Turn 121 17:10 Hrs Real Time 07:48:37 AM 05/08/2021

REPORTS for Harwich

Sighted 7 destroyers ----- -11N 13E, Crs 005, Spd 20 from Southampton
 Apparent wind on Arethusa from SSE at 28 knots (2 points to port)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	19N 55E	170	26 26 25.6 28 0
10thHF -----	10th Half Flotilla (7)(7 -	30N 53E	170	26 26 25.2 29 --
Nicholson ---	Aurora -----	21N 52E	163	27 26 25.6 28 0
9thFlot -----	9th Flotilla (14)(14) ----	32N 53E	170	26 26 25.2 29 --
StJohn -----	Undaunted -----	24N 54E	170	27 26 25.6 28 0
4thFlot -----	4th Flotilla (14)(14) ----	28N 53E	170	26 26 25.2 29 --

HITS

Heavy caliber Medium caliber

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 Turn 122 17:15 Hrs Real Time 07:51:36 AM 05/08/2021

REPORTS for Harwich

Sighted 4 funneled cruiser ----- -13N 04E, Crs 345, Spd 25 from Southampton
 Apparent wind on Arethusa from SSE at 28 knots (2 points to port)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	18N 55E	170	26 26 26.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	30N 53E	170	27 27 26.2 29 --
Nicholson ---	Aurora -----	20N 53E	165	28 27 26.8 28 0
9thFlot -----	9th Flotilla (14)(14) ----	32N 53E	170	27 27 26.2 29 --
StJohn -----	Undaunted -----	24N 54E	170	28 27 26.8 28 0
4thFlot -----	4th Flotilla (14)(14) ----	28N 53E	170	27 27 26.2 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	3 hits, 3 total	
Tiger -----	1 hit, 1 total	
Princess Royal -----	1 hit, 1 total	
New Zealand -----	0 hit, 0 total	1 hit, 1 total
1 Seydlitz class -----	1 hit, 1 total	
2 Moltke class -----	1 hit, 1 total	

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Turn 123 17:20 Hrs Real Time 07:58:35 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from SSE at 24 knots (2 points to port)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	06N 82E	190	26 26 26.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	17N 81E	187	28 28 27.2 29 --
Nicholson ---	Aurora -----	07N 82E	190	26 26 27.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	19N 82E	187	28 25 26.2 29 --
StJohn -----	Undaunted -----	11N 81E	187	28 28 27.8 28 0
4thFlot -----	4th Flotilla (14)(14) ----	15N 81E	187	28 27 27.0 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	5 hits, 8 total	
Tiger -----	6 hits, 7 total	
Princess Royal -----	2 hits, 3 total	
1 Seydlitz class -----	1 hit, 2 total	

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Turn 124 17:25 Hrs Real Time 08:04:23 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from SSE at 16 knots (port bow)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	05N 77E	190	15 16 20.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	14N 77E	182	22 22 25.6 29 --
Nicholson ---	Aurora -----	06N 77E	190	18 18 22.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	16N 77E	182	22 22 24.8 29 --
StJohn -----	Undaunted -----	08N 77E	182	21 20 24.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	12N 77E	182	22 22 25.6 29 --

HITS Heavy caliber Medium caliber
 Lion ----- 4 hits, 12 total
 Tiger ----- 2 hits, 9 total
 Princess Royal ----- 7 hits, 10 total
 1 Seydlitz class ----- 1 hit, 3 total
 2 Moltke class ----- 1 hit, 2 total
 3 Derfflinger class ----- 2 hits, 2 total

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 Turn 125 17:30 Hrs Real Time 08:07:49 AM 05/08/2021

REPORTS for Harwich

Nottingham BLOWN UP, position 31N 8E
 Apparent wind on Arethusa from SSE at 15 knots (port bow)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	06N 72E	190	15 15 14.8 28 0
10thHF -----	10th Half Flotilla (7)(7 -	14N 73E	188	16 16 17.2 29 --
Nicholson ---	Aurora -----	07N 72E	190	15 15 15.0 28 0
9thFlot ----	9th Flotilla (14)(14) ----	16N 74E	188	16 16 17.2 29 --
StJohn -----	Undaunted -----	08N 72E	190	15 14 16.0 28 0
4thFlot ----	4th Flotilla (14)(14) ----	12N 73E	186	29 18 17.6 29 --

HITS Heavy caliber Medium caliber
 Lion ----- 1 hit, 13 total
 Tiger ----- 1 hit, 10 total
 Princess Royal ----- 3 hits, 13 total

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 Turn 126 17:35 Hrs Real Time 08:12:56 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NNE at 23 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	17N 70E	000	20 19 16.2 28 0
10thHF -----	10th Half Flotilla (7)(7 -	14N 71E	198	29 21 17.8 29 --
Nicholson ---	Aurora -----	16N 70E	000	17 17 15.8 28 0
9thFlot ----	9th Flotilla (14)(14) ----	16N 71E	194	29 21 17.8 29 --
StJohn -----	Undaunted -----	14N 70E	000	17 16 16.0 28 0
4thFlot ----	4th Flotilla (14)(14) ----	12N 70E	202	29 22 18.0 29 --

HITS Heavy caliber Medium caliber
 Lion ----- 1 hit, 14 total
 Tiger ----- 1 hit, 11 total

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 Turn 127 17:40 Hrs Real Time 08:19:41 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NE at 33 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	19N 73E	035	25 25 23.0 28 0

10thHF	-----	10th Half Flotilla (7)(7 - 11N 68E	035	23	23	24.4	29	--
Nicholson	---	Aurora -----	18N 73E	035	25	25	21.4	28 0
9thFlot	-----	9th Flotilla (14)(14) ----	10N 67E	006	22	21	22.6	29 --
StJohn	-----	Undaunted -----	17N 72E	035	25	24	20.8	28 0
4thFlot	-----	4th Flotilla (14)(14) ----	13N 70E	035	22	21	18.6	29 --

HITS Heavy caliber Medium caliber
Tiger ----- 1 hit, 12 total
2 Moltke class ----- 2 hits, 4 total

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Turn 128 17:45 Hrs Real Time 08:22:13 AM 05/08/2021

REPORTS for Harwich
Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING
Firing Ship Pos. Target class Range yds Arc Con Obstruction/problem

POSITIONS
Unit Lead, screen, out of form. Pos (in.) Crs Spd(ord/cur/avg /max/unit)
Tyrwhitt ---- Arethusa ----- 21N 72E 015 25 25 25.0 28 0
10thHF ----- 10th Half Flotilla (7)(7 - 14N 70E 015 25 25 24.6 29 --
Nicholson --- Aurora ----- 20N 72E 015 25 25 25.0 28 0
9thFlot ----- 9th Flotilla (14)(14) ---- 11N 68E 021 29 23 19.0 29 --
StJohn ----- Undaunted ----- 19N 72E 015 25 25 24.8 28 0
4thFlot ----- 4th Flotilla (14)(14) ---- 16N 71E 015 25 25 24.4 29 --

HITS Heavy caliber Medium caliber
Lion ----- 2 hits, 16 total
Tiger ----- 4 hits, 16 total
Princess Royal ----- 2 hits, 15 total
1 Seydlitz class ----- 1 hit, 4 total
2 Moltke class ----- 2 hits, 6 total

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Turn 129 17:50 Hrs Real Time 08:25:52 AM 05/08/2021

REPORTS for Harwich
Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING
Firing Ship Pos. Target class Range yds Arc Con Obstruction/problem

POSITIONS
Unit Lead, screen, out of form. Pos (in.) Crs Spd(ord/cur/avg /max/unit)
Tyrwhitt ---- Arethusa ----- 25N 71E 015 25 25 25.0 28 0
10thHF ----- 10th Half Flotilla (7)(7 - 17N 69E 015 25 25 25.0 29 --
Nicholson --- Aurora ----- 24N 70E 015 25 25 25.0 28 0
9thFlot ----- 9th Flotilla (14)(14) ---- 15N 68E 015 25 25 25.0 29 --
StJohn ----- Undaunted ----- 23N 70E 015 25 25 25.0 28 0
4thFlot ----- 4th Flotilla (14)(14) ---- 19N 69E 015 25 25 25.0 29 --

HITS Heavy caliber Medium caliber
Lion ----- 3 hits, 19 total
Tiger ----- 2 hits, 18 total
Princess Royal ----- 1 hit, 16 total
2 Moltke class ----- 5 hits, 11 total
3 Derfflinger class ----- 1 hit, 3 total

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Turn 130 17:55 Hrs Real Time 08:29:41 AM 05/08/2021

REPORTS for Harwich
Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	28N 68E	015	25 25 25.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	20N 66E	015	25 25 25.0 29 --
Nicholson ---	Aurora -----	27N 68E	015	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	18N 66E	015	25 25 25.0 29 --
StJohn -----	Undaunted -----	26N 68E	015	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	22N 67E	015	25 25 25.0 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	1 hit, 20 total	
Tiger -----	2 hits, 20 total	
Princess Royal -----	2 hits, 18 total	
2 Moltke class -----	2 hits, 13 total	

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 Turn 131 17:60 Hrs Real Time 08:33:17 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	31N 66E	015	25 25 25.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	23N 64E	015	25 25 25.0 29 --
Nicholson ---	Aurora -----	30N 65E	015	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	21N 63E	015	25 25 25.0 29 --
StJohn -----	Undaunted -----	29N 65E	015	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	25N 64E	015	25 25 25.0 29 --

HITS

	Heavy caliber	Medium caliber
Tiger -----	2 hits, 22 total	
Princess Royal -----	2 hits, 20 total	
2 Moltke class -----	1 hit, 14 total	

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 Turn 132 18:05 Hrs Real Time 08:36:05 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
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POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	33N 66E	015	25 25 25.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	25N 64E	015	25 25 25.0 29 --
Nicholson ---	Aurora -----	32N 66E	015	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	23N 64E	015	25 25 25.0 29 --
StJohn -----	Undaunted -----	31N 66E	015	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	27N 65E	015	25 25 25.0 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	2 hits, 22 total	2 hits, 2 total
Tiger -----	2 hits, 24 total	
Princess Royal -----	2 hits, 22 total	
1 Seydlitz class -----	3 hits, 7 total	
2 Moltke class -----	1 hit, 15 total	
3 Derfflinger class -----	1 hit, 4 total	

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Turn 133 18:10 Hrs Real Time 08:40:28 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
Arethusa ----->	1	Breslau -----	13,260		6	
Aurora ----->	1	Breslau -----	13,194	S		Arethusa/3ptsP
Undaunted ----->	2	Breslau -----	13,329	S		Aurora/3ptsP

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	35N 67E	015	25 25 25.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	27N 65E	015	25 25 25.0 29 --
Nicholson ---	Aurora -----	34N 67E	015	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	25N 64E	015	25 25 25.0 29 --
StJohn -----	Undaunted -----	33N 66E	015	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	29N 65E	015	25 25 25.0 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	5 hits, 27 total	1 hit, 3 total
Tiger -----	2 hits, 26 total	
Princess Royal -----	3 hits, 25 total	
1 Seydlitz class -----	4 hits, 11 total	
2 Moltke class -----	4 hits, 19 total	
3 Derfflinger class -----	3 hits, 7 total	

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Turn 134 18:15 Hrs Real Time 08:46:41 AM 05/08/2021

REPORTS for Harwich

Apparent wind on Arethusa from NNE at 31 knots (2 points to starboard)

TARGETING

Firing Ship	Pos.	Target class	Range yds	Arc	Con	Obstruction/problem
Arethusa ----->	1	Breslau -----	13,245		5	
Aurora ----->	1	Breslau -----	13,184	S		Arethusa/3ptsP
Undaunted ----->	2	Breslau -----	13,149	S		Aurora/3ptsP

POSITIONS

Unit	Lead, screen, out of form.	Pos (in.)	Crs	Spd(ord/cur/avg /max/unit)
Tyrwhitt ----	Arethusa -----	37N 67E	015	25 25 25.0 28 0
10thHF -----	10th Half Flotilla (7)(7 -	29N 65E	015	25 25 25.0 29 --
Nicholson ---	Aurora -----	36N 67E	015	25 25 25.0 28 0
9thFlot -----	9th Flotilla (14)(14) ----	27N 65E	015	25 25 25.0 29 --
StJohn -----	Undaunted -----	35N 67E	015	25 25 25.0 28 0
4thFlot -----	4th Flotilla (14)(14) ----	31N 66E	015	25 25 25.0 29 --

HITS

	Heavy caliber	Medium caliber
Lion -----	2 hits, 29 total	
Tiger -----	1 hit, 27 total	
Princess Royal -----	4 hits, 29 total	
1 Seydlitz class -----	3 hits, 14 total	
2 Moltke class -----	2 hits, 21 total	
3 Derfflinger class -----	5 hits, 12 total	