

Cruise report

Sand eel survey 2021

**Arctic Hunter
and
M/S Reykjanes**

North Sea/Skagerrak – Sand eel area 1r, 2r & 3r
Including the extended area

Cruise: 1/2021

Vessel: Arctic Hunter

Area: Nord Sea, sand eel area 1r & 2r

Departure: Esbjerg **Date:** 16.11.2021

Arrival: Esbjerg **Date:** 10.12.2021

Vessel: M/S Reykjanes

Area: Nord Sea, sand eel area 1r & 3r

Departure: Esbjerg **Date:** 16.11.2021

Arrival: Esbjerg **Date:** 10.12.2021

Project number: 39064 - 21

Participants (scientific)

Arctic Hunter:

Cruise leader: Dirk Cornelis Tijssen

Danmarks Tekniske Universitet, Institut for Monitering og Data (DTU Aqua) 16/11 – 10/12 2021

Consultant: Henning Pedersen

FOGA Aps, Esbjerg 16/11 – 10/12 2021

Reykjanes:

Cruise leader: Jan Thomsen

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Assistant: Claus Jepsen

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Objectives

The purpose of the sand eel dredge survey is to collect sand eels buried in the seabed and compare catches (number and age composition) with the previous year's collections to assess the 2019 year class strength of sand eel in area 1r, 2r and 3r of the different areas adopted by ICES in 2016 (figure 1). Data from the dredge survey is the basis for calculating an index, which is used in the stock assessment for sand eel in the North Sea.

Achievements

Types of data collected

- Dredge (sand eels; species, weight, length)
- Samples of non-sand eel species from each dredge haul

Arctic Hunter:

- 23 days at sea
- 161 valid dredge hauls distributed over 54 sample positions.

Reykjanes:

- 23 days at sea
- 153 valid dredge hauls distributed over 53 sample positions.

Sampling method and strategy

Due to the extension of the survey area in 2017, two vessels participated in the survey: Arctic Hunter and Reykjanes. Reykjanes worked on sand eel area 3r and the northern part of eel area 2r (i.e. the North Sea and the major part of Skagerrak). Arctic Hunter carried out the remaining stations (i.e. the central and southern part of the North Sea).

Number of samples per position

At all positions, where samples are taken, three stations are carried out in a "star" formation using the dredge.

Time of the day for sampling

Sampling using the dredge is carried out during night time (i.e. 15 min after sunset to 15 min before sunrise).

Haul duration and hauling speed

The duration for each haul is 10 min and the hauling speed is 2 knot.

Working up of samples on board

For more detailed description of the working-up procedure, see the cruise program.

Catch from dredge

The catch of the sand eel species is sorted (Lesser sand eel (*Ammodytes marinus* and *Ammodytes tobianus*) are pooled). The weight and the length distribution of the lesser sand eel are recorded. Sub-samples are frozen for split into the two species and age reading later in the laboratory. Each drag is worked up separately.

Samples of non-sand eel species

The species were sorted in category based of the fragility of the species in plastic bags. The bags were frozen immediately after sorting.

Results

In total where 314 valid hauls were fished using the dredges (table 1) distributed on 113 positions. The weather conditions were in periods very rough and prevented fishing for approx. 7 day in total. All stations carried out during the survey are listed in Table 2.

Table 1 Valid samples obtained during the Sand eels survey 2021 by vessel.

Vessel	1r		2r		3r		Total Hauls	Total Positions
	Hauls	Positions	Hauls	Positions	Hauls	Positions		
Arctic Hunter	141	47	20	7			161	54
Reykjanes	9	3	75	27	69	23	153	53
Grand Total	150	50	95	34	69	23	314	107

Table 2 Valid samples obtained during the Sand eels survey 2021 by priority.

Priority	Hauls	Positions
Priority high	251	85
Priority Low	63	22
Grand Total	314	107

Compare of achieved number of hauls to planned number of hauls

In total 128 standard positions (priority = high and low) were potentially listed to be sampled. This year four additional stations were added to the list in the deeper part of Skagerrak for exploratory reasons. Each position is defined as either high or low priority. Normally, it is not possible to fish all the positions and some of the low priority positions should be skipped. Each position is supposed to be fished three times (star formation). If all stations were fished, this should result in a total of 384 dredge stations. Of the total positions, 93 positions have high priority and 35 have low priority. In 2021 a total of 107 positions were sampled resulting in 314 dredge hauls. 85 of the high priority positions were fished. 22 positions of low priority were fished (Table 2). The reason for not being able to fish all high priority positions were bad weather, which ruined the planning and forced sub-optimal performance due to time constrains.

Two stations were only fished by 1 haul (1 high and 1 low priority) and three stations were only fished by 2 hauls (2 high and 1 low priority). The rest (102 positions) were fished by 3 hauls. The reason for less hauls than planned at each station was logistic. In the actual cases, the windy conditions prevented to complete all three hauls at a certain position and it was then decided instead of waiting for better weather at the position, to optimize the planning by using the unfavourable period to steam to the next position in order to save time overall.

The cruise were prolonged with 16 days (8 days for each vessel) due to the extremely windy weather condition during the survey. Originally, the survey was planned to the extent of 30 days at sea in total.

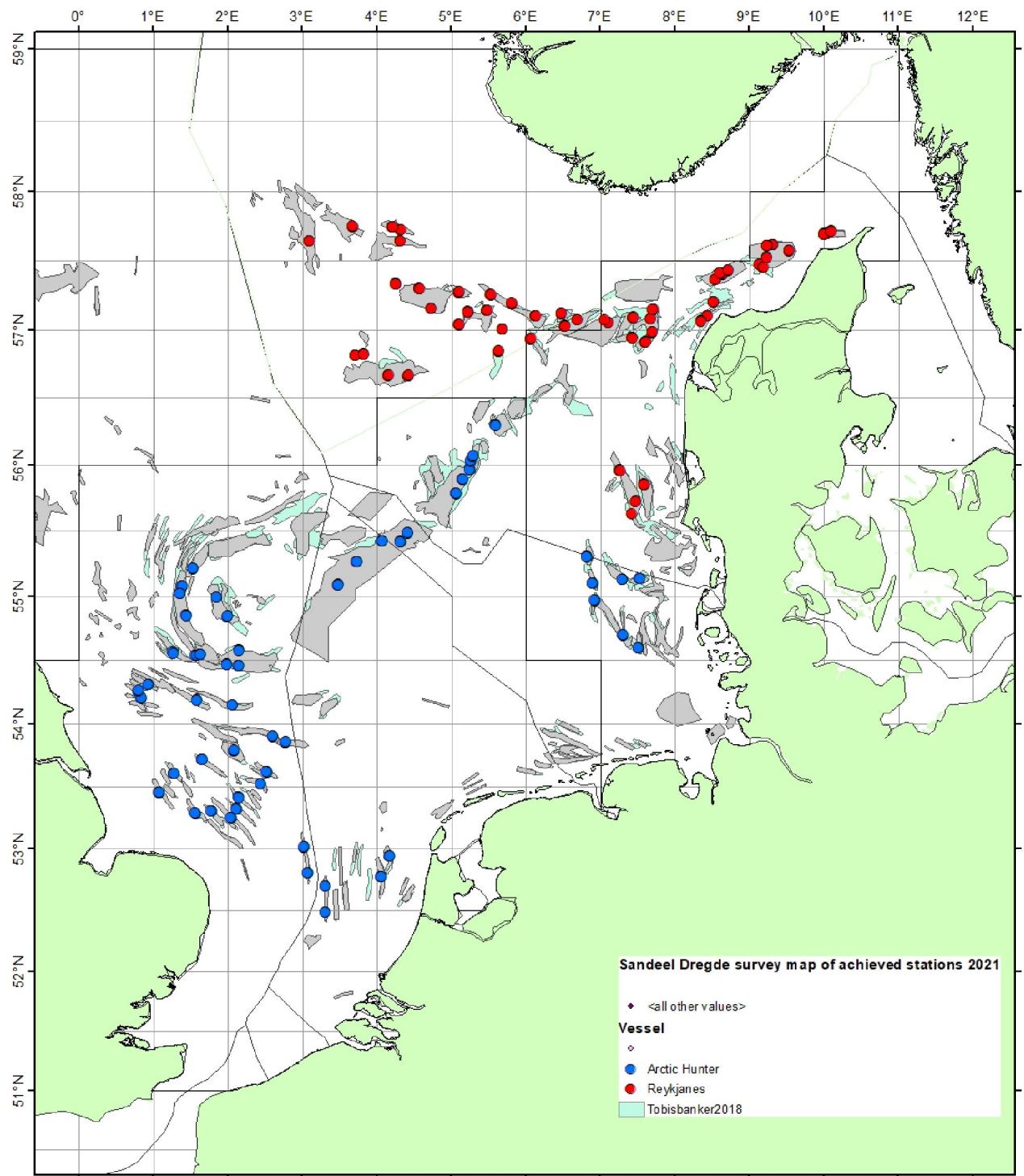


Figure 1 Realized stations in sand eel area 1r, 2r and 3r for the November/December cruise 2020 (Arctic Hunter (blue) and Reykjanes (red)).

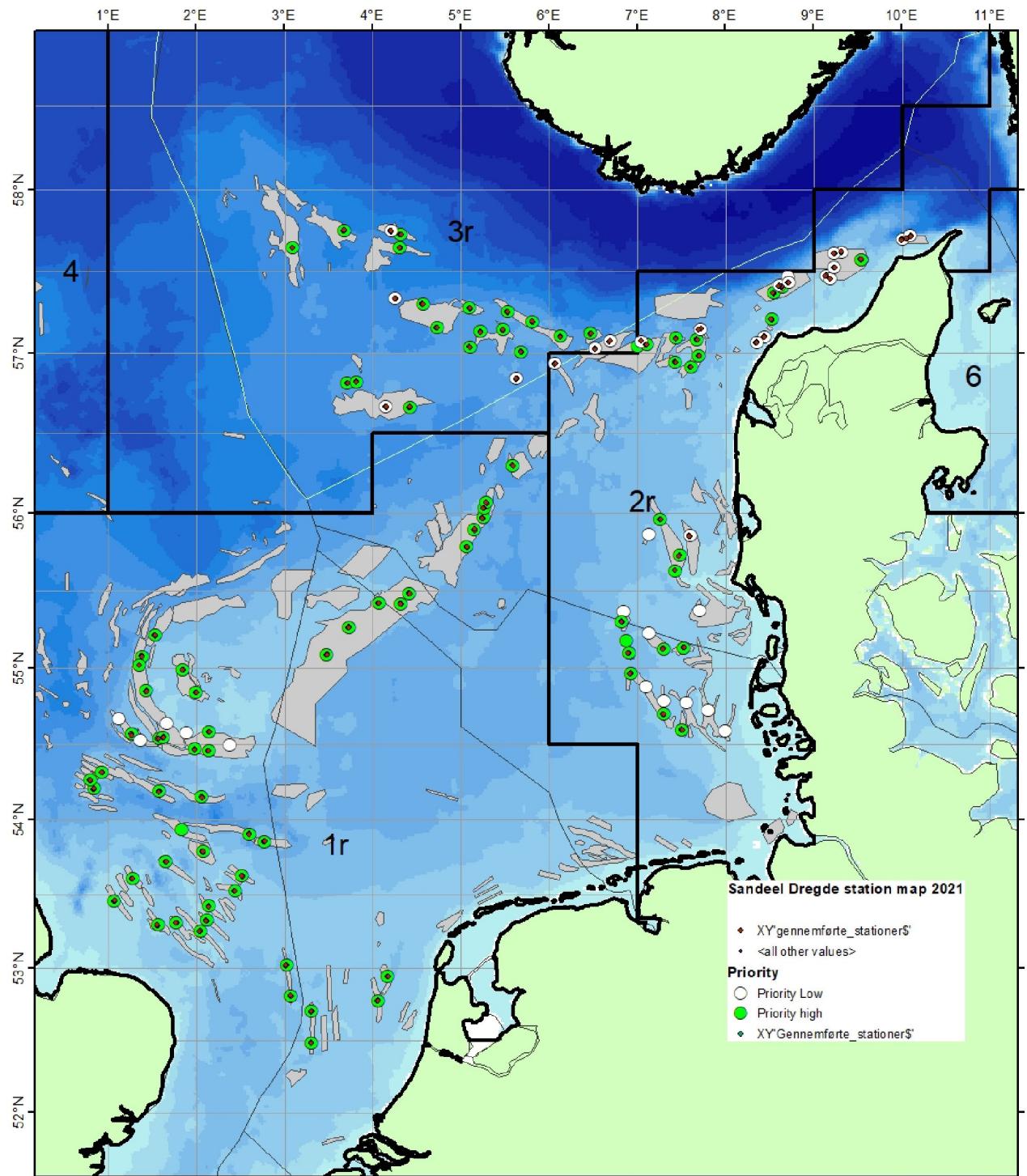


Figure 2 Compare of planed stations (according to Cruise plan) and realized stations in sand eel area 1r, 2r and 3r for the November/December cruise 2020. (Planed High priority station (green) and Planed Low priority station (white) and realized station (black dot).

Table 2 List of realized dredge and sediments stations during the sand eel survey in area 1r, 2r and 3r in November/December 2021.

ID	Vessel	Validity	dateCearStart	fishingline	airPostStart	onPostStart	dtuArea	statisticalRectangle	distance	Gear ID	Depth (Asgae)	windsped	Tobisarea	Location	Priority
1	Arctic Hunter	V	27-11-2021	4	10	54.12.3220 N	0.8433	37F0	0.37284265	DK1	48	10	Ir	Dogger	Priority high
1	Arctic Hunter	V	27-11-2021	4	10	54.12.1340 N	0.836233333	37F0	0.36138272	DK1	48	11	Ir	Dogger	Priority high
1	Arctic Hunter	V	27-11-2021	4	10	54.12.5140 N	0.834966667	37F0	0.464838212	DK1	48	11	Ir	Dogger	Priority high
2	Arctic Hunter	V	27-11-2021	4	10	54.15.7370 N	0.80275	37F0	0.37270769	DK1	52	3	Ir	Dogger	Priority high
2	Arctic Hunter	V	27-11-2021	4	10	54.15.5450 N	0.79695	37F0	0.37270769	DK1	52	3	Ir	Dogger	Priority high
2	Arctic Hunter	V	27-11-2021	4	10	54.15.8570 N	0.795666667	37F0	0.37270769	DK1	52	3	Ir	Dogger	Priority high
3	Arctic Hunter	V	25-11-2021	4	10	54.18.5620 N	0.924166667	37F0	0.372623576	DK1	50	14	Ir	Dogger	Priority high
3	Arctic Hunter	V	25-11-2021	4	10	54.18.7800 N	0.930166667	37F0	0.361993976	DK1	50	14	Ir	Dogger	Priority high
3	Arctic Hunter	V	25-11-2021	4	10	54.18.5200 N	0.926033333	37F0	0.357301584	DK1	50	14	Ir	Dogger	Priority high
4	Arctic Hunter	V	24-11-2021	4	10	54.28.0520 N	1.98925	37F1	0.368126146	DK1	20	8	Ir	Dogger	Priority high
4	Arctic Hunter	V	24-11-2021	4	10	54.28.1990 N	1.9817	37F1	0.345247692	DK1	20	8	Ir	Dogger	Priority high
4	Arctic Hunter	V	24-11-2021	4	10	54.27.9040 N	1.9817	37F1	0.321901892	DK1	20	8	Ir	Dogger	Priority high
5	Arctic Hunter	V	25-11-2021	4	10	54.11.3640 N	1.57415	37F1	0.342764862	DK1	29	11	Ir	Dogger	Priority high
5	Arctic Hunter	V	25-11-2021	4	10	54.11.5140 N	1.581996667	37F1	0.372788433	DK1	29	11	Ir	Dogger	Priority high
5	Arctic Hunter	V	25-11-2021	4	10	54.11.1950 N	1.579983333	37F1	0.345563797	DK1	29	11	Ir	Dogger	Priority high
6	Arctic Hunter	V	24-11-2021	4	10	54.27.4190 N	2.14575	37F2	0.354869565	DK1	19	8	Ir	Dogger	Priority high
6	Arctic Hunter	V	24-11-2021	4	10	54.27.3150 N	2.130666667	37F2	0.320963103	DK1	19	8	Ir	Dogger	Priority high
6	Arctic Hunter	V	24-11-2021	4	10	54.27.5550 N	2.137116667	37F2	0.320988759	DK1	20	8	Ir	Dogger	Priority high
7	Arctic Hunter	V	24-11-2021	4	10	54.09.1270 N	2.057833333	37F2	0.363822347	DK1	29	9	Ir	Dogger	Priority high
7	Arctic Hunter	V	24-11-2021	4	10	54.08.9720 N	2.0659	37F2	0.333577655	DK1	29	9	Ir	Dogger	Priority high
7	Arctic Hunter	V	24-11-2021	4	10	54.08.8380 N	2.0577	37F2	0.334757193	DK1	29	9	Ir	Dogger	Priority high
8	Arctic Hunter	V	24-11-2021	4	10	54.34.8550 N	2.152766667	38F2	0.346266272	DK1	21	5	Ir	Dogger	Priority high
8	Arctic Hunter	V	24-11-2021	4	10	54.34.9530 N	2.143416667	38F2	0.339420485	DK1	21	5	Ir	Dogger	Priority high
8	Arctic Hunter	V	24-11-2021	4	10	54.34.7240 N	2.149833333	38F2	0.341612851	DK1	21	5	Ir	Dogger	Priority high
9	Arctic Hunter	V	23-11-2021	4	10	54.50.5020 N	1.999666667	38F1	0.39051818	DK1	24	8	Ir	Dogger	Priority high
9	Arctic Hunter	V	23-11-2021	4	10	54.50.3640 N	1.999516667	38F1	0.36658748	DK1	24	8	Ir	Dogger	Priority high
9	Arctic Hunter	V	23-11-2021	4	10	54.50.5060 N	1.992366667	38F1	0.37633448	DK1	24	8	Ir	Dogger	Priority high
10	Arctic Hunter	V	22-11-2021	4	10	55.12.5290 N	1.52965	39F1	0.321927102	DK1	38	9	Ir	Dogger	Priority high
10	Arctic Hunter	V	22-11-2021	4	10	55.12.7150 N	1.535216667	39F1	0.325823371	DK1	39	9	Ir	Dogger	Priority high
10	Arctic Hunter	V	22-11-2021	4	10	55.12.8340 N	1.528366667	39F1	0.350190164	DK1	39	9	Ir	Dogger	Priority high
12	Arctic Hunter	V	23-11-2021	4	10	54.51.1220 N	1.430616667	38F1	0.344145136	DK1	27	5	Ir	Dogger	Priority high
12	Arctic Hunter	V	23-11-2021	4	10	54.50.9940 N	1.438733333	38F1	0.363250494	DK1	27	5	Ir	Dogger	Priority high
13	Arctic Hunter	V	23-11-2021	4	10	54.50.5020 N	1.260533333	38F1	0.367379167	DK1	26	4	Ir	Dogger	Priority high
13	Arctic Hunter	V	23-11-2021	4	10	54.34.0310 N	1.269883333	38F1	0.359028023	DK1	26	4	Ir	Dogger	Priority high
13	Arctic Hunter	V	23-11-2021	4	10	54.33.3090 N	1.261366667	38F1	0.369005546	DK1	26	4	Ir	Dogger	Priority high
14	Arctic Hunter	V	24-11-2021	4	10	54.32.3240 N	1.276566667	38F1	0.391995009	DK1	26	4	Ir	Dogger	Priority high
14	Arctic Hunter	V	24-11-2021	4	10	54.32.4700 N	1.274076667	38F1	0.387479384	DK1	26	4	Ir	Dogger	Priority high
14	Arctic Hunter	V	24-11-2021	4	10	54.32.6200 N	1.268666667	38F1	0.372727561	DK1	26	4	Ir	Dogger	Priority high
15	Arctic Hunter	V	24-11-2021	4	10	54.32.7320 N	1.274716667	38F1	0.359151765	DK1	24	4	Ir	Dogger	Priority high
15	Arctic Hunter	V	24-11-2021	4	10	54.32.8820 N	1.619516667	38F1	0.372972971	DK1	24	4	Ir	Dogger	Priority high
15	Arctic Hunter	V	24-11-2021	4	10	54.32.5990 N	1.618216667	38F1	0.376429404	DK1	24	4	Ir	Dogger	Priority high
16	Arctic Hunter	V	23-11-2021	4	10	54.59.4430 N	1.84365	38F1	0.360570232	DK1	27	8	Ir	Dogger	Priority high
16	Arctic Hunter	V	23-11-2021	4	10	54.59.4290 N	1.850266667	38F1	0.352012948	DK1	27	8	Ir	Dogger	Priority high
16	Arctic Hunter	V	23-11-2021	4	10	54.59.3030 N	1.85195	38F1	0.371023838	DK1	27	8	Ir	Dogger	Priority high
17	Arctic Hunter	V	22-11-2021	4	10	55.04.6360 N	1.38585	39E1	0.363441426	DK1	37	8	Ir	Dogger	Priority high
17	Arctic Hunter	V	22-11-2021	4	10	55.04.7090 N	1.3798	39E1	0.361241602	DK1	37	8	Ir	Dogger	Priority high
17	Arctic Hunter	V	22-11-2021	4	10	55.04.5490 N	1.377366667	39E1	0.376905088	DK1	37	8	Ir	Dogger	Priority high
18	Arctic Hunter	V	22-11-2021	4	10	55.01.2150 N	1.350566667	39E1	0.340059047	DK1	33	8	Ir	Dogger	Priority high
18	Arctic Hunter	V	22-11-2021	4	10	55.01.1700 N	1.3557	39E1	0.302768097	DK1	33	8	Ir	Dogger	Priority high
18	Arctic Hunter	V	22-11-2021	4	10	55.01.0530 N	1.34635	39E1	0.344800962	DK1	33	8	Ir	Dogger	Priority high
23	Arctic Hunter	V	22-11-2021	4	10	55.05.4260 N	3.47385	39F3	0.3904402289	DK1	33	10	Ir	Elbow Spot	Priority high
23	Arctic Hunter	V	22-11-2021	4	10	55.05.1970 N	3.480166667	39F3	0.386962086	DK1	33	10	Ir	Elbow Spot	Priority high
23	Arctic Hunter	V	22-11-2021	4	10	55.05.0040 N	3.474066667	39F3	0.345585713	DK1	33	10	Ir	Elbow Spot	Priority high
24	Arctic Hunter	V	22-11-2021	4	10	55.16.6090 N	3.729166667	39F3	0.346286272	DK1	34	10	Ir	Elbow Spot	Priority high
24	Arctic Hunter	V	22-11-2021	4	10	55.15.8330 N	3.729466667	39F3	0.363895288	DK1	34	10	Ir	Elbow Spot	Priority high
24	Arctic Hunter	V	22-11-2021	4	10	55.15.6080 N	3.724316667	39F3	0.359705987	DK1	35	14	Ir	Elbow Spot	Priority high
25	Arctic Hunter	V	21-11-2021	4	10	55.25.2930 N	4.06325	39F4	0.363635532	DK1	30	12	Ir	Elbow Spot	Priority high
25	Arctic Hunter	V	21-11-2021	4	10	55.25.0790 N	4.062316667	39F4	0.341061213	DK1	30	12	Ir	Elbow Spot	Priority high
25	Arctic Hunter	V	21-11-2021	4	10	55.25.5200 N	4.06185	40F5	0.326070919	DK1	35	12	Ir	Tail End	Priority high
26	Arctic Hunter	V	21-11-2021	4	10	55.25.1650 N	4.06158	40F5	0.314527542	DK1	38	12	Ir	Tail End	Priority high
26	Arctic Hunter	V	21-11-2021	4	10	55.24.8700 N	4.3142	39F4	0.353563263	DK1	35	14	Ir	Tail End	Priority high
26	Arctic Hunter	V	21-11-2021	4	10	55.24.7980 N	4.32053	39F4	0.361240182	DK1	37	8	Ir	Elbow Spot	Priority high
27	Arctic Hunter	V	20-11-2021	4	10	55.29.1730 N	4.408183333	39F4	0.318717453	DK1	32	12	Ir	Elbow Spot	Priority high
27	Arctic Hunter	V	20-11-2021	4	10	55.28.8570 N	4.408066667	39F4	0.346776043	DK1	32	12	Ir	Elbow Spot	Priority high
27	Arctic Hunter	V	20-11-2021	4	10	55.29.0000 N	4.4078	39F4	0.320350783	DK1	32	12	Ir	Elbow Spot	Priority high
28	Arctic Hunter	V	19-11-2021	4	10	55.46.9040 N	5.069216667	40F5	0.361789923	DK1	36	11	Ir	Tail End	Priority high
28	Arctic Hunter	V	19-11-2021	4	10	55.46.6210 N	5.26445	41F5	0.374422068	DK1	41	14	Ir	Tail End	Priority high
29	Arctic Hunter	V	18-11-2021	4	10	55.01.8210 N	5.26445	41F5	0.374422068	DK1	41	14	Ir	Tail End	Priority high
29	Arctic Hunter	V	18-11-2021	4	10	55.03.7410 N	5.29435	41F5	0.43632942	DK1	44	13	Ir	Tail End	Priority high
32	Arctic Hunter	V	18-11-2021	4	10	56.03.6310 N	5.28785	41F5	0.382407049	DK1	44	13	Ir	Tail End	Priority high
32	Arctic Hunter	V	18-11-2021	4	10	56.03.8820 N	5.289893333	41F5	0.304038169	DK1	44	13	Ir	Tail End	Priority high
33	Arctic Hunter	V	17-11-2021	4	10	56.18.1610 N	5.590633333	41F5	0.37775522	DK1	41	12	Ir	Tail End	Priority high
33	Arctic Hunter	V	17												

116	Arctic Hunter	V	29-11-2021	4	10	53.25 0910 N	2.1489	35F2	0.950282756	DK1	19	15	1r	Svd for Dogger	Priority high
116	Arctic Hunter	V	29-11-2021	4	10	53.24 9030 N	2.14125	35F2	0.363034602	DK1	19	15	1r	Svd for Dogger	Priority high
117	Arctic Hunter	V	3-12-2021	4	10	53.19 5000 N	2.118833333	35F2	0.376954067	DK1	17	7	1r	Svd for Dogger	Priority high
117	Arctic Hunter	V	3-12-2021	4	10	53.19 3080 N	2.112883333	35F2	0.359084145	DK1	16	7	1r	Svd for Dogger	Priority high
117	Arctic Hunter	V	3-12-2021	4	10	53.18 4440 N	1.770466667	35F1	0.348436517	DK1	18	10	1r	Svd for Dogger	Priority high
118	Arctic Hunter	V	2-12-2021	4	10	53.18 1660 N	1.7712	35F1	0.351058202	DK1	18	10	1r	Svd for Dogger	Priority high
118	Arctic Hunter	V	2-12-2021	4	11	53.18 3000 N	1.77765	35F2	0.374340207	DK1	18	10	1r	Svd for Dogger	Priority high
120	Arctic Hunter	V	3-12-2021	4	10	53.14 9000 N	2.039616667	35F2	0.34880515	DK1	11	8	1r	Svd for Dogger	Priority high
120	Arctic Hunter	V	3-12-2021	4	10	53.15 1730 N	2.037483333	35F2	0.365744927	DK1	14	8	1r	Svd for Dogger	Priority high
120	Arctic Hunter	V	2-12-2021	4	10	53.14 9590 N	2.046733333	35F2	0.357642149	DK1	14	8	1r	Svd for Dogger	Priority high
122	Arctic Hunter	V	2-12-2021	4	10	53.17 2010 N	1.5575	35F1	0.337670733	DK1	14	12	1r	Svd for Dogger	Priority high
122	Arctic Hunter	V	2-12-2021	4	10	53.17 3440 N	1.5649	35F1	0.351597755	DK1	15	12	1r	Svd for Dogger	Priority high
122	Arctic Hunter	V	2-12-2021	4	10	53.17 4900 N	1.5603	35F1	0.359194612	DK1	15	12	1r	Svd for Dogger	Priority high
123	Arctic Hunter	V	4-12-2021	4	5	52.29 1030 N	3.3057	33F3	0.173216397	DK1	28	5	1r	Svd for Dogger	Priority high
123	Arctic Hunter	V	4-12-2021	4	5	52.29 0840 N	3.304083333	33F3	0.185886328	DK1	28	5	1r	Svd for Dogger	Priority high
123	Arctic Hunter	V	4-12-2021	4	5	52.29 0070 N	3.307166667	33F3	0.184648563	DK1	28	5	1r	Svd for Dogger	Priority high
124	Arctic Hunter	V	3-12-2021	4	10	52.48 2460 N	3.074216667	34F3	0.367132762	DK1	27	0	1r	Svd for Dogger	Priority high
124	Arctic Hunter	V	3-12-2021	4	10	52.48 3660 N	3.0661	34F3	0.353616831	DK1	27	0	1r	Svd for Dogger	Priority high
124	Arctic Hunter	V	3-12-2021	4	10	52.48 5720 N	3.073516667	34F3	0.365936588	DK1	27	0	1r	Svd for Dogger	Priority high
125	Arctic Hunter	V	3-12-2021	4	10	53.00 8010 N	3.0217	35F3	0.347847948	DK1	27	8	1r	Svd for Dogger	Priority high
125	Arctic Hunter	V	3-12-2021	4	10	53.00 6260 N	3.01575	35F3	0.366157447	DK1	27	8	1r	Svd for Dogger	Priority high
125	Arctic Hunter	V	3-12-2021	4	10	53.01 1490 N	3.023	35F3	0.349364925	DK1	27	8	1r	Svd for Dogger	Priority high
126	Arctic Hunter	V	4-12-2021	4	10	52.41 8620 N	3.310493333	34F3	0.37616807	DK1	24	7	1r	Svd for Dogger	Priority high
126	Arctic Hunter	V	4-12-2021	4	5	52.42 9000 N	3.308233333	34F3	0.181943975	DK1	24	7	1r	Svd for Dogger	Priority high
126	Arctic Hunter	V	4-12-2021	4	5	52.42 1080 N	3.3078	34F3	0.172142064	DK1	24	7	1r	Svd for Dogger	Priority high
127	Arctic Hunter	V	4-12-2021	4	10	52.46 5290 N	4.061693333	34F4	0.42651255	DK1	25	12	1r	Ny banke east	Priority high
127	Arctic Hunter	V	4-12-2021	4	10	52.46 7070 N	4.053866667	34F4	0.367659206	DK1	25	12	1r	Ny banke east	Priority high
127	Arctic Hunter	V	4-12-2021	4	10	52.46 3320 N	4.054016667	34F4	0.35103963	DK1	25	12	1r	Ny banke east	Priority high
128	Arctic Hunter	V	4-12-2021	4	10	52.56 4910 N	4.173366667	34F4	0.371819133	DK1	26	12	1r	Ny banke east	Priority high
128	Arctic Hunter	V	4-12-2021	4	10	52.56 3570 N	4.167066667	34F4	0.317261392	DK1	26	12	1r	Ny banke east	Priority high
128	Arctic Hunter	V	4-12-2021	4	10	52.56 6140 N	4.163816667	34F4	0.372705101	DK1	26	12	1r	Ny banke east	Priority high
129	Arctic Hunter	V	1-12-2021	4	10	53.27 2910 N	1.07435	35F1	0.34696636	DK1	32	4	1r	Dooing	Priority high
129	Arctic Hunter	V	1-12-2021	4	10	53.27 1460 N	1.067066667	35F1	0.338116046	DK1	32	4	1r	Dooing	Priority high
129	Arctic Hunter	V	1-12-2021	4	10	53.27 4380 N	1.066466667	35F1	0.340193284	DK1	21	15	1r	Dooing	Priority high
130	Arctic Hunter	V	1-12-2021	4	10	53.26 3990 N	1.278766667	36F1	0.349267082	DK1	23	12	1r	Ny banke west	Priority high
130	Arctic Hunter	V	1-12-2021	4	10	53.36 4530 N	1.277316667	36F1	0.369610605	DK1	23	12	1r	Ny banke west	Priority high
130	Arctic Hunter	V	1-12-2021	4	10	53.36 4670 N	1.271466667	36F1	0.355205107	DK1	23	12	1r	Ny banke west	Priority high
34	Reykjanes	V	6-12-2021	4	10	56.56 7970 N	7.429333333	42F7	0.34771878	DK3	27	8	1r	Tail End	Priority high
34	Reykjanes	V	6-12-2021	4	10	56.56 4930 N	7.434566667	42F7	0.345924604	DK3	27	8	1r	Tail End	Priority high
34	Reykjanes	V	6-12-2021	4	10	56.56 3960 N	7.426233333	42F7	0.348291201	DK3	27	8	1r	Tail End	Priority high
35	Reykjanes	V	5-12-2021	4	10	56.59 1140 N	7.697363333	42F7	0.343594877	DK3	21	15	1r	Tail End	Priority high
35	Reykjanes	V	5-12-2021	4	10	56.58 8090 N	7.691983333	42F7	0.343180263	DK3	21	15	1r	Tail End	Priority high
35	Reykjanes	V	5-12-2021	4	10	56.58 9500 N	7.691466667	42F7	0.34898073	DK3	21	15	1r	Tail End	Priority high
36	Reykjanes	V	5-12-2021	4	10	56.54 9080 N	7.601283333	42F7	0.347080876	DK3	24	10	1r	Tail End	Priority high
36	Reykjanes	V	6-12-2021	4	10	56.54 6860 N	7.608483333	42F7	0.344675769	DK3	24	10	1r	Tail End	Priority high
36	Reykjanes	V	6-12-2021	4	10	56.54 5830 N	7.601966667	42F7	0.342122008	DK3	24	10	1r	Tail End	Priority high
38	Reykjanes	V	6-12-2021	4	10	57.03 2650 N	7.10495	43F7	0.334895828	DK3	29	18	2r	Tail End	Priority high
38	Reykjanes	V	6-12-2021	4	10	57.03 0190 N	7.1087	43F7	0.345020623	DK3	29	18	2r	Tail End	Priority high
38	Reykjanes	V	6-12-2021	4	10	57.03 0220 N	7.1	43F7	0.337304327	DK3	29	18	2r	Tail End	Priority high
39	Reykjanes	V	6-12-2021	4	10	57.05 2950 N	7.436466667	43F7	0.345521893	DK3	26	12	2r	Tail End	Priority high
39	Reykjanes	V	6-12-2021	4	10	57.05 5350 N	7.432516667	43F7	0.343484483	DK3	26	12	2r	Tail End	Priority high
39	Reykjanes	V	6-12-2021	4	10	57.05 5590 N	7.432683333	43F7	0.348482634	DK3	26	12	2r	Tail End	Priority high
40	Reykjanes	V	5-12-2021	4	10	57.05 2690 N	7.671416667	43F7	0.337301549	DK3	28	18	2r	Tail End	Priority high
40	Reykjanes	V	5-12-2021	4	10	57.05 4440 N	7.676141666	43F7	0.345720523	DK3	28	18	2r	Tail End	Priority high
40	Reykjanes	V	5-12-2021	4	10	57.04 8650 N	7.666463333	43F7	0.344152397	DK3	28	18	2r	Tail End	Priority high
41	Reykjanes	V	28-11-2021	4	10	56.59 3330 N	6.691113333	43F6	0.340381975	DK3	53	14	3r	Norway EEZ	Priority Low
41	Reykjanes	V	28-11-2021	4	10	57.04 4430 N	6.682316667	43F6	0.344672981	DK3	53	14	3r	Norway EEZ	Priority Low
41	Reykjanes	V	28-11-2021	4	10	57.04 6380 N	6.689253333	43F6	0.339975654	DK3	53	14	3r	Norway EEZ	Priority Low
42	Reykjanes	V	24-11-2021	4	10	57.08 5000 N	5.482583333	43F5	0.348573747	DK3	46	6	3r	Norway EEZ	Priority high
42	Reykjanes	V	24-11-2021	4	10	57.08 3810 N	5.47475	43F5	0.347051717	DK3	46	6	3r	Norway EEZ	Priority high
43	Reykjanes	V	27-11-2021	4	10	57.06 2960 N	6.125383333	43F6	0.336903133	DK3	51	15	3r	Norway EEZ	Priority high
43	Reykjanes	V	27-11-2021	4	10	57.06 0760 N	6.131433333	43F6	0.343319725	DK3	51	15	3r	Norway EEZ	Priority high
43	Reykjanes	V	27-11-2021	4	10	57.06 0250 N	6.126283333	43F6	0.339721963	DK3	51	15	3r	Norway EEZ	Priority high
44	Reykjanes	V	23-11-2021	4	3	56.48 8130 N	3.713383333	42F3	0.110562163	DK3	59	9	3r	Norway EEZ	Priority high
44	Reykjanes	V	23-11-2021	4	3	56.48 7630 N	3.712853333	42F3	0.106325736	DK3	59	9	3r	Norway EEZ	Priority high
44	Reykjanes	V	23-11-2021	4	3	56.48 7960 N	3.712083333	42F3	0.101632503	DK3	60	13	3r	Norway EEZ	Priority high
45	Reykjanes	V	20-11-2021	4	10	56.40 9410 N	4.151016667	42F4	0.342626765	DK3	50	8	3r	Norway EEZ	Priority Low
45	Reykjanes	V	20-11-2021	4	10	56.40 6080 N	4.145716667	42F4	0.325283335	DK3	50	8	3r	Norway EEZ	Priority Low
46	Reykjanes	V	20-11-2021	4	10	56.39 7970 N	4.14215	42F4	0.337657735	DK3	52	8	3r	Norway EEZ	Priority high
46	Reykjanes	V	20-11-2021	4	10	56.39 6540 N	4.141435	42F4	0.328338233	DK3	52	8	3r	Norway EEZ	Priority high
47	Reykjanes	V	20-11-2021	4	10	56.39 2900 N	4.17093	43F4	0.360996956	DK3	56	14	3r	Norway EEZ	Priority high
47	Reykjanes	V	20-11-2021	4	10	57.07 9000 N	5.210433333	43F4	0.332057054	DK3</td					

72	Revkjanes	V	4-12 2021	4	10	57.28 4340 N	9.143183333	43F9	0.345604715	DK3	21	10	2r	Skagerrak	Priority Low
74	Revkjanes	V	1-12 2021	4	10	57.25 9530 N	8.7197	43F8	0.341579682	DK3	28	8	2r	Skagerrak	Priority Low
74	Revkjanes	V	1-12 2021	4	10	57.25 8350 N	8.7111	43F8	0.332982603	DK3	28	8	2r	Skagerrak	Priority Low
74	Revkjanes	V	1-12 2021	4	10	57.26 1310 N	8.714533333	43F8	0.338783336	DK3	28	8	2r	Skagerrak	Priority Low
75	Revkjanes	V	4-12 2021	4	10	57.27 5220 N	9.185333333	43F9	0.342611426	DK3	21	8	2r	Skagerrak	Priority Low
75	Revkjanes	V	4-12 2021	4	10	57.27 2040 N	9.189166667	43F9	0.356255714	DK3	21	8	2r	Skagerrak	Priority Low
75	Revkjanes	V	4-12 2021	4	10	57.27 2330 N	9.1815	43F9	0.34721239	DK3	21	8	2r	Skagerrak	Priority Low
76	Revkjanes	V	3-12 2021	4	10	57.31 6640 N	9.232933333	44F9	0.344634584	DK3	20	8	2r	Skagerrak	Priority Low
76	Revkjanes	V	3-12 2021	4	10	57.31 4240 N	9.235183333	44F9	0.36491185	DK3	20	8	2r	Skagerrak	Priority Low
76	Revkjanes	V	4-12 2021	4	10	57.31 4930 N	9.225266667	44F9	0.341429429	DK3	20	8	2r	Skagerrak	Priority Low
77	Revkjanes	V	3-12 2021	4	10	57.34 4750 N	9.538783333	44F9	0.372920303	DK3	21	4	2r	Skagerrak	Priority high
77	Revkjanes	V	3-12 2021	4	10	57.34 2050 N	9.534016667	44F9	0.339235373	DK3	21	4	2r	Skagerrak	Priority high
77	Revkjanes	V	3-12 2021	4	10	57.34 5200 N	9.5317	44F9	0.340905182	DK3	21	4	2r	Skagerrak	Priority high
78	Revkjanes	V	3-12 2021	4	10	57.37 1820 N	9.313333333	44F9	0.348934961	DK3	22	10	2r	Skagerrak	Priority Low
78	Revkjanes	V	3-12 2021	4	10	57.37 0550 N	9.305783333	44F9	0.346789559	DK3	22	10	2r	Skagerrak	Priority Low
78	Revkjanes	V	3-12 2021	4	10	57.37 2010 N	9.308816667	44F9	0.340652278	DK3	22	10	2r	Skagerrak	Priority Low
79	Revkjanes	V	3-12 2021	4	10	57.36 7030 N	9.226883333	44F9	0.341983779	DK3	21	9	2r	Skagerrak	Priority Low
79	Revkjanes	V	3-12 2021	4	10	57.36 8210 N	9.235366667	44F9	0.340617999	DK3	21	9	2r	Skagerrak	Priority Low
79	Revkjanes	V	3-12 2021	4	10	57.36 5320 N	9.221866667	44F9	0.456685101	DK3	21	9	2r	Skagerrak	Priority Low
80	Revkjanes	V	2-12 2021	4	10	57.42 1940 N	10.050516667	44G9	0.345526098	DK3	24	6	2r	Skagerrak	Priority Low
80	Revkjanes	V	2-12 2021	4	10	57.42 2040 N	10.059916667	44G9	0.354580803	DK3	24	6	2r	Skagerrak	Priority Low
80	Revkjanes	V	2-12 2021	4	10	57.42 2060 N	10.060316667	44G9	0.345526098	DK3	24	6	2r	Skagerrak	Priority Low
81	Revkjanes	V	3-12 2021	4	10	57.41 6890 N	9.996016667	44F9	0.360470051	DK3	24	6	2r	Skagerrak	Priority Low
81	Revkjanes	V	3-12 2021	4	10	57.41 8370 N	10.004133333	44F9	0.343946351	DK3	24	6	2r	Skagerrak	Priority Low
81	Revkjanes	V	3-12 2021	4	10	57.41 5630 N	10.00375	44F9	0.3348411993	DK3	24	6	2r	Skagerrak	Priority Low
82	Revkjanes	V	7-12 2021	4	10	55.57 4900 N	7.35935	40F7	0.320942361	DK3	26	12	2r	West Coast Jutland	Priority high
82	Revkjanes	V	7-12 2021	4	10	55.57 2970 N	7.264866667	40F7	0.354635979	DK3	26	12	2r	West Coast Jutland	Priority high
82	Revkjanes	V	7-12 2021	4	10	55.57 2760 N	7.255216667	40F7	0.353492841	DK3	26	12	2r	West Coast Jutland	Priority high
85	Revkjanes	V	8-12 2021	4	10	55.37 7710 N	7.4217	40F7	0.357104176	DK3	16	18	2r	West Coast Jutland	Priority high
102	Revkjanes	V	7-12 2021	4	10	55.43 7660 N	7.4761	40F7	0.369246139	DK3	21	15	2r	West Coast Jutland	Priority high
102	Revkjanes	V	8-12 2021	4	10	55.43 4350 N	7.481566667	40F7	0.379874013	DK3	21	15	2r	West Coast Jutland	Priority high
103	Revkjanes	V	7-12 2021	4	10	55.51 2900 N	7.595783333	40F7	0.356193138	DK3	20	15	2r	West Coast Jutland	Priority Low
103	Revkjanes	V	7-12 2021	4	10	55.51 0120 N	7.592016667	40F7	0.337568081	DK3	20	15	2r	West Coast Jutland	Priority Low
103	Revkjanes	V	7-12 2021	4	10	55.51 0790 N	7.595966667	40F7	0.344511477	DK3	20	15	2r	West Coast Jutland	Priority Low
132	Revkjanes	V	2-12 2021	4	10	57.43 0270 N	10.09383333	44G9	0.349408643	DK3	21	2	2r	Skagerrak	Priority Low
132	Revkjanes	V	2-12 2021	4	10	57.42 7320 N	10.0928	44G9	0.349616345	DK3	21	2	2r	Skagerrak	Priority Low
133	Revkjanes	V	5-12 2021	4	10	57.08 9470 N	7.711433333	43F7	0.347376764	DK3	43	15	2r	Skagerrak	Priority Low
133	Revkjanes	V	5-12 2021	4	10	57.08 7910 N	7.700933333	43F7	0.392747964	DK3	43	15	2r	Skagerrak	Priority Low
134	Revkjanes	V	6-12 2021	4	10	57.04 4540 N	7.047816667	43F7	0.341340907	DK3	49	19	2r	Skagerrak	Priority Low
135	Revkjanes	V	27-11 2021	4	10	57.01 8070 N	6.518266667	43F6	0.347648571	DK3	59	12	2r	Skagerrak	Priority Low
135	Revkjanes	V	27-11 2021	4	10	57.01 5830 N	6.5258	43F6	0.342959076	DK3	59	12	2r	Skagerrak	Priority Low
135	Revkjanes	V	28-11 2021	4	10	57.01 5010 N	6.518183333	43F6	0.338958882	DK3	59	12	2r	Skagerrak	Priority Low