

NB IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY

### LEG 1. Maps and positions of stations.

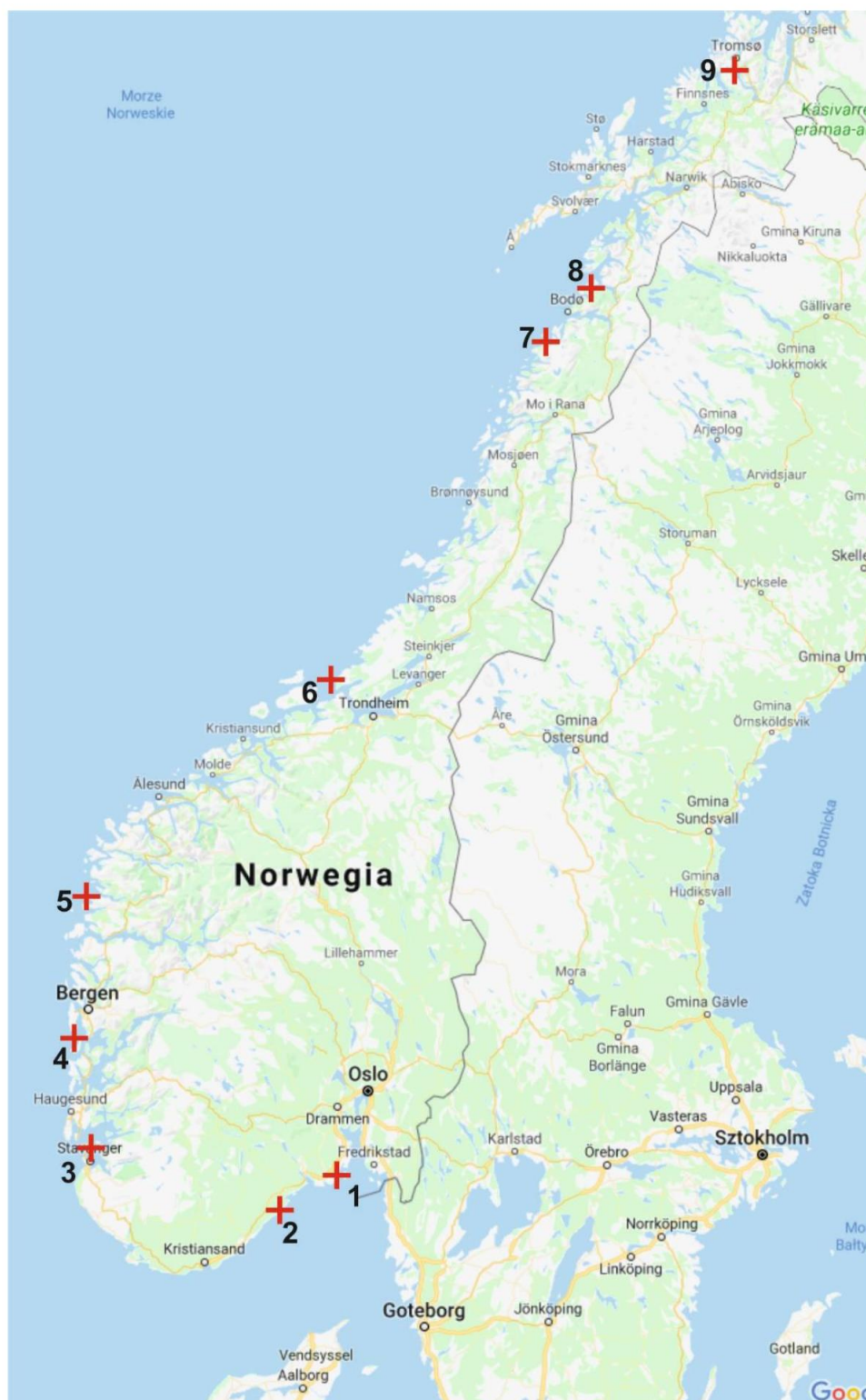


Fig. 1 General map of sampling areas (crosses) during the Leg 1 of the AREX2020 expedition. The numbers correspond to those given in parentheses in the following figures.



Fig.2 Larviksfjorden (Larvik) (1). General location (upper) and proposed sampling area (red ellipse)

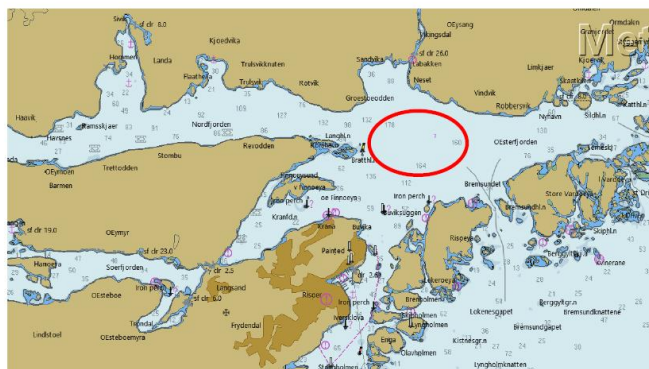


Fig.3 Østerfjorden (Risør) (2). General location (upper) and proposed sampling area (red ellipse)



Fig.4 Høgsfjorden (Stavanger) (3). General location (upper) and proposed sampling area (red ellipses)

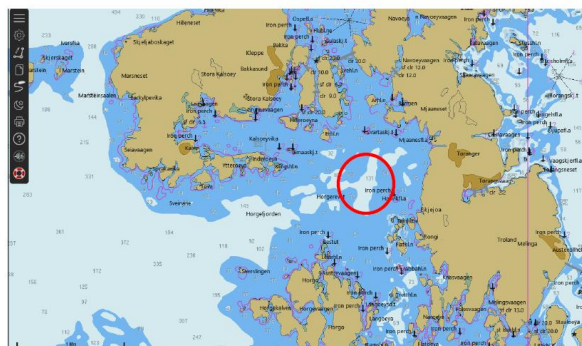


Fig. 5. Horgefjorden (to the south of Bergen) (4) General location (upper) and proposed sampling area (red ellipse)



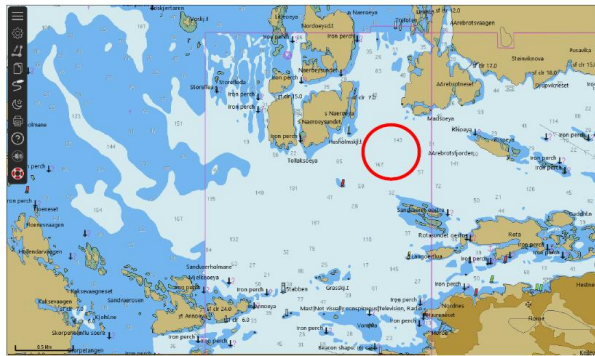
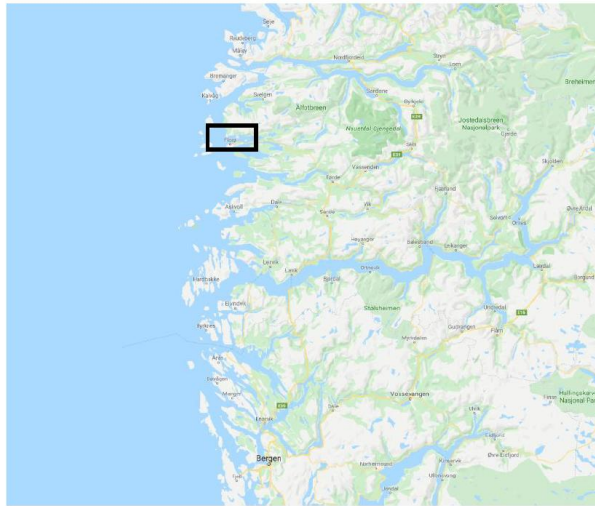


Fig. 6. Årebotstfjorden (to the north of Florø) (5) General location (upper) and proposed sampling area (red ellipse)

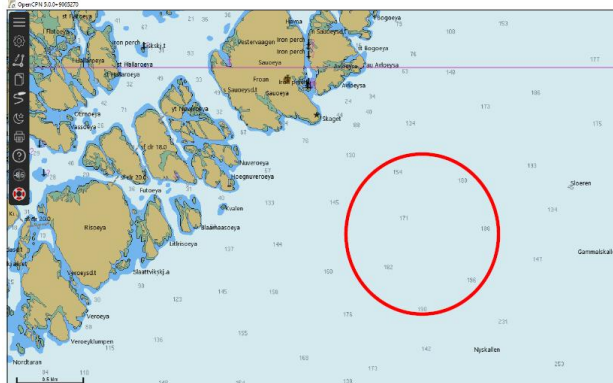
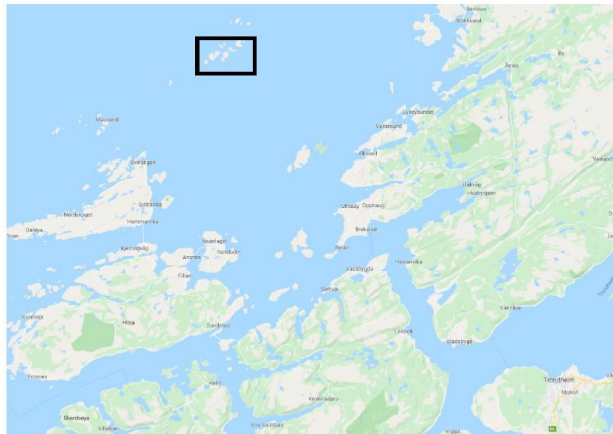


Fig. 7. Frohavet (outside Trondheimfjord) (6) General location (upper) and proposed sampling area (red ellipse)





Table 1. Planed position of plankton and sediment sampling during the AREX2020 cruise, Leg I

Station	Lat (deg.)	Lat (min.)	Lon (deg.)	Lon (min.)	Remarks
Larviksfjorden	59	00.39 N	10	04.12 E	approximate location
Østerfjorden	58	44.29 N	09	15.38 E	approximate location
Høgsfjorden 1	58	59.05 N	05	52.51 E	approximate location
Høgsfjorden 2	58	57.59 N	05	57.43 E	approximate location
Horgefjorden	60	06.85 N	05	07.00 E	approximate location
Årebrotsfjorden	61	37.25 N	04	59.22 E	approximate location
Frohavet	63	58.91 N	09	13.08 E	approximate location
Holandsfjorden 1	66	43.86 N	13	29.32 E	approximate location
Holandsfjorden 2	66	42.41 N	13	37.38 E	approximate location
Mistfjorden 1	67	26.82 N	14	44.76 E	approximate location
Mistfjorden 2	67	26.98 N	14	50.72 E	approximate location
Malangen 1	69	28.65 N	18	23.27 E	approximate location
Malangen 2	69	32.00 N	18	30.40 E	approximate location
Selbjørnfjorden (deep)	59	57.30 N	05	07.88 E	Benthic community project
Selbjørnfjorden (shallow)	59	56.27 N	05	07.14 E	Benthic community project



## Legs 2 and 3. Map and positions of stations.

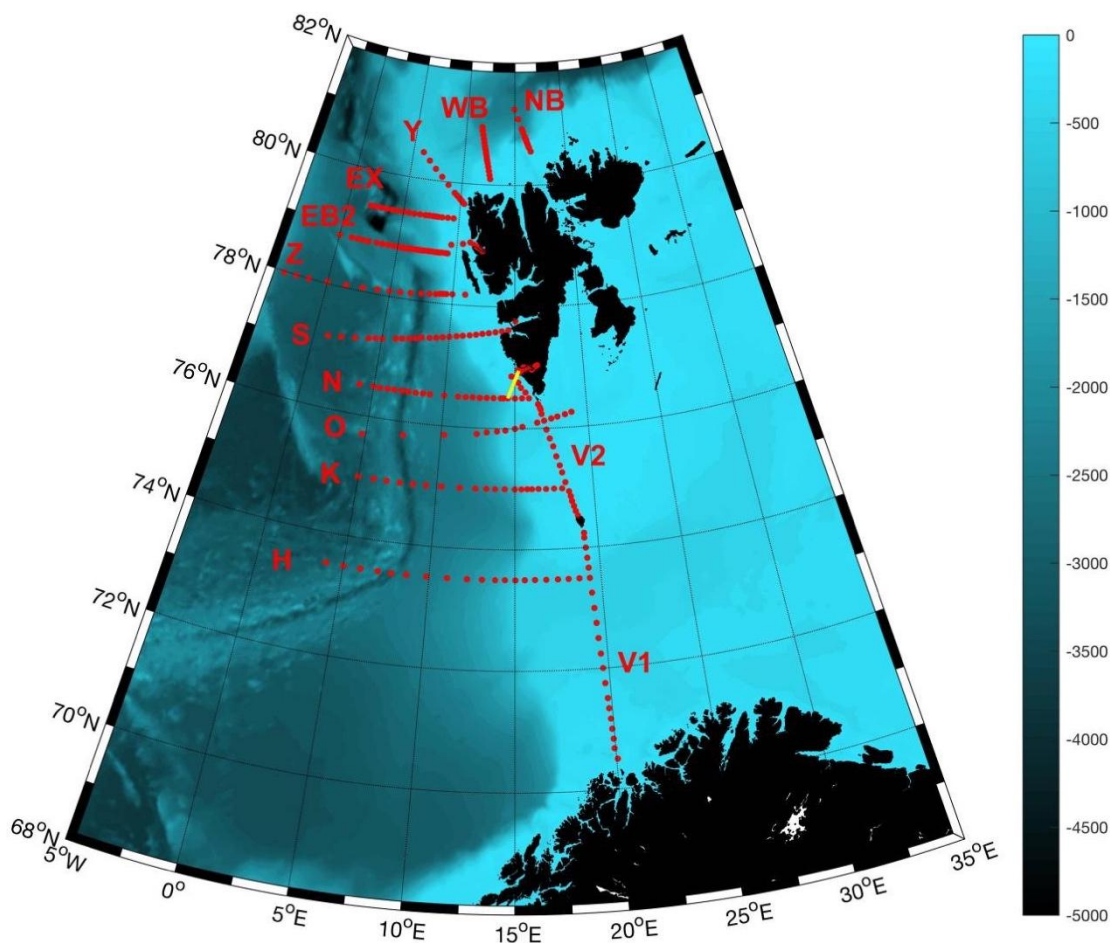


Fig. 12 The planned oceanographic stations grid during AREX2020 expedition, Leg 2 and Leg 3. At stations hydrographic measurements with CTD SeaBird 9/11+ system (temperature and salinity) and LADCP TRDI 300 kHz (ocean currents) will be conducted.

Table 2. Planed positions and approximate dates of the oceanographic stations during AREX2020 cruise, Leg 2 and Leg 3. The plan is based on previous years activities, however actual sequence of sections and dates of individual stations may change depending on weather and sea ice conditions. In general, sections V1, V2, H, K, O, and N will be occupied during the second leg of the AREX2020 cruise (between June 20 and July 5) and sections S, Z, X, EB2, Y, WB and NB will be visited during the third leg between July 6 and 22.

Station	Latitude	Longitude	Water depth	Day	Month	Year
V1	70.500	19.989	136	22	6	2020
V2	70.667	19.936	156	22	6	2020
V3	70.835	19.941	182	22	6	2020
V4	70.999	19.900	186	22	6	2020
V5	71.166	19.867	207	22	6	2020
V6	71.333	19.838	211	22	6	2020
V7	71.498	19.805	235	22	6	2020
V8	71.752	19.741	265	22	6	2020
V9	72.001	19.685	306	22	6	2020
V10	72.250	19.617	322	22	6	2020
V11	72.500	19.569	381	22	6	2020



V12	72.755	19.528	396	22	6	2020
V13	73.002	19.472	417	23	6	2020
V14	73.248	19.401	443	23	6	2020
V15	73.499	19.335	476	23	6	2020
V16	73.666	19.307	348	23	6	2020
V17	73.831	19.267	235	23	6	2020
V18	73.998	19.217	135	23	6	2020
V19	74.166	19.186	69	23	6	2020
V20	74.249	19.173	58	23	6	2020
K-3	75.000	18.000	154	24	6	2020
K-2	75.001	17.506	118	24	6	2020
K-1	75.000	17.002	128	24	6	2020
K0	75.001	16.505	245	24	6	2020
K1	74.999	16.102	209	24	6	2020
K2	74.999	15.789	361	24	6	2020
K3	74.999	15.437	818	24	6	2020
K4	74.999	15.003	1105	24	6	2020
K5	75.001	14.371	1527	24	6	2020
K6	74.999	13.745	1795	24	6	2020
K7	75.000	13.184	1982	24	6	2020
K8	75.000	12.550	2145	24	6	2020
K9	75.000	11.634	2353	25	6	2020
K10	74.999	10.420	2496	25	6	2020
K11	74.999	9.171	2610	25	6	2020
K12	74.999	8.519	2820	25	6	2020
K13	74.999	7.653	2217	25	6	2020
K14	74.997	6.837	2093	25	6	2020
K15	75.000	6.000	2821	25	6	2020
K16	74.998	4.991	3124	26	6	2020
K17	74.999	4.020	3038	26	6	2020
K18	75.001	2.998	2470	26	6	2020
K19	75.004	2.011	2753	26	6	2020
H22	73.501	1.001	3075	27	6	2020
H21	73.500	1.998	3364	27	6	2020
H20	73.500	2.998	2500	27	6	2020
H19	73.500	3.976	2859	27	6	2020
H18	73.500	4.999	2670	27	6	2020
H17	73.501	5.997	2026	28	6	2020
H16	73.500	6.988	2322	28	6	2020
H15	73.500	7.801	2942	28	6	2020
H14	73.502	8.664	2480	28	6	2020
H13	73.504	9.813	2290	28	6	2020
H12	73.501	11.030	2054	28	6	2020
H11	73.501	12.197	1801	29	6	2020
H10	73.503	13.058	1567	29	6	2020
H9	73.500	13.833	1285	29	6	2020
H8	73.500	14.415	1009	29	6	2020
H4	73.502	14.991	684	29	6	2020
H7	73.504	15.566	479	29	6	2020
H6	73.504	16.151	455	29	6	2020
H5	73.502	16.807	443	29	6	2020
H3	73.500	17.479	441	29	6	2020
H2	73.500	18.091	406	29	6	2020
H1	73.500	18.740	427	29	6	2020
V21	74.533	18.873	78	30	6	2020
V22	74.615	18.752	70	30	6	2020
V23	74.700	18.666	97	30	6	2020

V24	74.782	18.569	226	30	6	2020
V25	74.866	18.502	204	30	6	2020
V26	74.947	18.420	72	30	6	2020
V27	75.100	18.218	67	30	6	2020
V28	75.266	18.051	62	30	6	2020
V29	75.380	17.918	101	30	6	2020
V30	75.531	17.718	130	30	6	2020
V31	75.701	17.547	210	30	6	2020
V32	75.831	17.336	290	30	6	2020
V33	75.983	17.134	319	30	6	2020
V34	76.127	17.008	288	30	6	2020
V35	76.240	16.847	218	30	6	2020
V36	76.311	16.792	105	1	7	2020
V37	76.350	16.743	53	1	7	2020
V38	76.396	16.632	32	1	7	2020
O8	76.250	18.916	261	1	7	2020
O7	76.217	18.427	247	1	7	2020
O6	76.183	17.918	274	1	7	2020
O5	76.159	17.473	306	1	7	2020
O4	76.134	17.012	281	1	7	2020
O3	76.101	16.516	341	1	7	2020
O2	76.067	16.008	384	1	7	2020
O1	76.034	15.514	362	1	7	2020
M4	76.004	15.012	337	1	7	2020
O-1	75.981	14.697	323	1	7	2020
O-2	75.967	14.361	344	1	7	2020
O-4	75.950	13.782	908	1	7	2020
O-6	75.932	13.086	1383	1	7	2020
Z1	78.170	11.012	260	2	7	2020
Z2	78.167	10.012	266	2	7	2020
Z3	78.164	9.501	265	2	7	2020
Z4	78.160	9.254	695	2	7	2020
Z5	78.156	9.000	1126	2	7	2020
Z6	78.145	8.685	1576	2	7	2020
Z7	78.138	8.188	2228	3	7	2020
Z8	78.129	7.508	3417	3	7	2020
Z9	78.116	6.671	2250	3	7	2020
Z10	78.097	5.848	2483	3	7	2020
Z11	78.092	5.002	2442	3	7	2020
Z12	78.080	4.024	2737	3	7	2020
Z13	78.067	2.843	3037	3	7	2020
Z14	78.050	1.501	3063	4	7	2020
Z15	78.028	0.008	3054	4	7	2020
O-13	75.706	4.786	2944	5	7	2020
O-12	75.733	6.093	2486	5	7	2020
O-11	75.777	7.464	2467	5	7	2020
O-10	75.819	8.803	2357	5	7	2020
O-9	75.851	10.189	2291	5	7	2020
O-8	75.886	11.549	2057	5	7	2020
O-7	75.907	12.389	1724	6	7	2020
S19	77.133	0.001	3184	7	7	2020
S18	77.166	0.990	3181	7	7	2020
S17	77.198	2.004	3190	8	7	2020
S16	77.233	3.006	2856	8	7	2020
S15	77.264	3.987	2523	8	7	2020
S14	77.285	4.489	2329	8	7	2020
S13	77.300	4.986	2461	8	7	2020

S12	77.333	5.990	2570	8	7	2020
S-1	77.601	14.004	135	10	7	2020
S0	77.583	13.501	144	11	7	2020
S1	77.567	13.001	135	11	7	2020
S2	77.546	12.526	98	11	7	2020
S3	77.534	12.027	172	11	7	2020
S4	77.516	11.504	273	11	7	2020
S5	77.500	11.005	698	11	7	2020
S6	77.484	10.493	1224	11	7	2020
S7	77.467	10.001	1577	11	7	2020
S7P	77.450	9.499	1913	11	7	2020
S8	77.436	9.000	2055	11	7	2020
S8P	77.416	8.499	1425	11	7	2020
S9	77.402	7.994	2266	11	7	2020
S9P	77.386	7.492	3432	12	7	2020
S10	77.369	7.000	2635	12	7	2020
S11	77.349	6.496	2079	12	7	2020
S12	77.333	5.997	2576	12	7	2020
N-15	76.500	0.004	3159	12	7	2020
N-14	76.501	1.001	3205	13	7	2020
N-13	76.499	1.983	3201	13	7	2020
N-12	76.499	3.008	2767	13	7	2020
N-11	76.500	3.999	2631	13	7	2020
N-10	76.502	5.003	2370	13	7	2020
N-9	76.502	5.492	2559	13	7	2020
N-8	76.501	5.989	2407	13	7	2020
N-7	76.501	6.500	2533	13	7	2020
N-6	76.501	6.987	2975	14	7	2020
N-5	76.502	7.501	2468	14	7	2020
N-4	76.502	7.991	1800	14	7	2020
N-3	76.500	8.501	2260	14	7	2020
N-2	76.500	9.000	2258	14	7	2020
N-1	76.500	9.996	2195	14	7	2020
N0	76.502	10.985	2081	14	7	2020
N0P	76.500	11.502	1998	14	7	2020
N1	76.502	11.996	1884	15	7	2020
N1P	76.502	12.484	1730	15	7	2020
N2	76.496	12.976	1528	15	7	2020
N2P	76.500	13.498	1259	15	7	2020
N3	76.498	13.996	746	15	7	2020
N3PP	76.498	14.201	412	15	7	2020
N3P	76.498	14.487	218	15	7	2020
N4	76.499	14.998	173	15	7	2020
N4P	76.499	15.485	139	15	7	2020
N5	76.498	15.991	52	15	7	2020
EB2-1	78.833	9.267	201	16	7	2020
EB2-1P	78.837	9.035	208	16	7	2020
EB2-2	78.836	8.785	209	16	7	2020
EB2-2P	78.835	8.598	415	16	7	2020
EB2-3	78.836	8.437	669	16	7	2020
EB2-3P	78.834	8.270	837	16	7	2020
EB2-4	78.832	8.100	956	16	7	2020
EB2-4P	78.833	7.849	1053	16	7	2020
EB2-5	78.833	7.591	1100	17	7	2020
EB2-5P	78.838	7.356	1203	17	7	2020
EB2-6	78.835	7.101	1352	17	7	2020
EB2-6P	78.834	6.872	1553	17	7	2020

EB2-7	78.834	6.679	1744	18	7	2020
EB2-7P	78.833	6.410	2050	18	7	2020
EB2-8	78.833	6.164	2324	18	7	2020
EB2-8P	78.836	5.926	2452	19	7	2020
EB2-9	78.835	5.681	2517	19	7	2020
EB2-10	78.835	5.202	2583	19	7	2020
EB2-10P	78.785	4.668	1726	19	7	2020
EB2-11	78.798	4.154	2324	19	7	2020
EB2-11P	78.834	3.663	2255	19	7	2020
EB2-12	78.836	3.175	2369	19	7	2020
EB2-12P	78.834	2.506	2464	19	7	2020
EX7P	79.412	6.027	1747	20	7	2020
EX7P	79.414	6.020	66	20	7	2020
EX7	79.417	6.495	1434	20	7	2020
EX6	79.418	7.003	1178	20	7	2020
EX5	79.418	7.309	998	20	7	2020
EX4P	79.417	7.662	751	20	7	2020
EX4	79.417	7.914	492	21	7	2020
EX3P	79.416	8.165	281	21	7	2020
EX3	79.418	8.484	187	21	7	2020
EX2	79.418	8.987	128	21	7	2020
EX1	79.418	9.474	127	21	7	2020
WB1	80.079	12.580	254	21	7	2020
WB2	80.155	12.559	175	21	7	2020
WB3	80.219	12.482	195	21	7	2020
WB4	80.286	12.404	183	21	7	2020
WB5	80.350	12.305	168	21	7	2020
WB6	80.381	12.265	180	21	7	2020
WB7	80.415	12.230	232	21	7	2020
WB8	80.433	12.209	372	21	7	2020
WB9	80.449	12.220	466	21	7	2020
WB10	80.466	12.184	573	21	7	2020
WB11	80.483	12.171	649	21	7	2020
WB12	80.517	12.142	807	21	7	2020
NB1	80.552	16.521	56	22	7	2020
NB2	80.615	16.366	144	22	7	2020
NB3	80.644	16.312	165	22	7	2020
NB4	80.679	16.268	176	22	7	2020
NB5	80.698	16.215	348	22	7	2020
NB6	80.710	16.187	606	22	7	2020
NB7	80.726	16.151	703	22	7	2020
NB8	80.742	16.121	915	22	7	2020
NB9	80.755	16.099	987	22	7	2020
NB10	80.775	16.063	1139	22	7	2020
NB11	80.795	16.127	1127	22	7	2020
Y1	79.660	10.357	41	24	7	2020
Y2	79.682	10.236	87	24	7	2020
Y3	79.709	10.089	137	24	7	2020
Y4	79.731	9.969	314	24	7	2020
Y5	79.754	9.860	373	24	7	2020
Y6	79.797	9.616	427	24	7	2020
Y7	79.837	9.376	455	24	7	2020
Y8	79.885	9.105	461	24	7	2020
Y9	79.943	9.324	474	24	7	2020
Y10	79.959	9.486	474	24	7	2020



#### LEG 4. Maps and positions of stations.

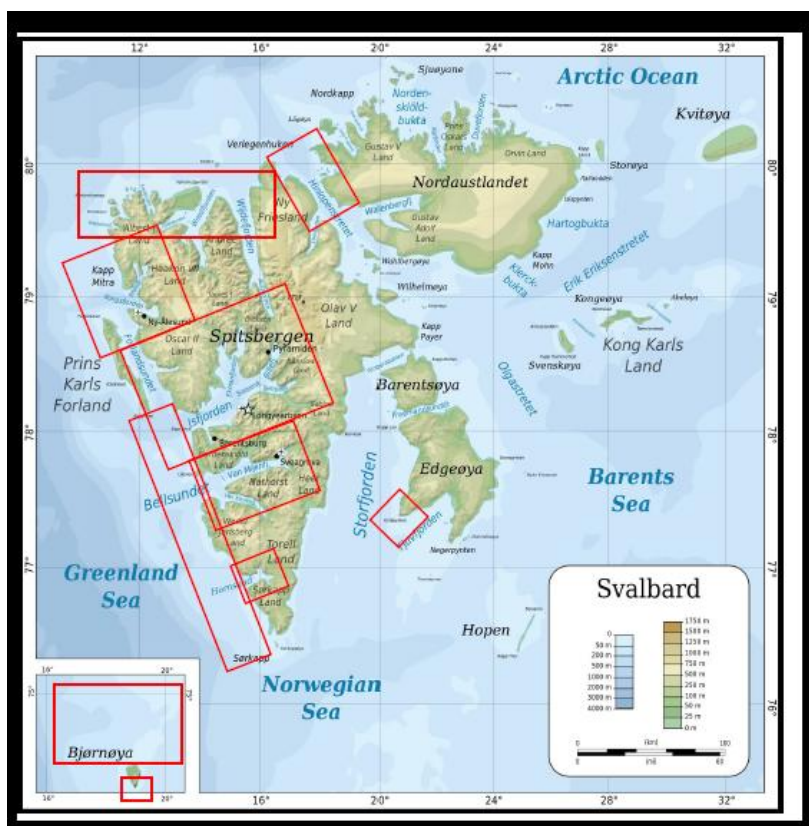


Fig. 13. Research regions in the Svalbard fjords and coastal regions (Leg 3 and Leg 4).

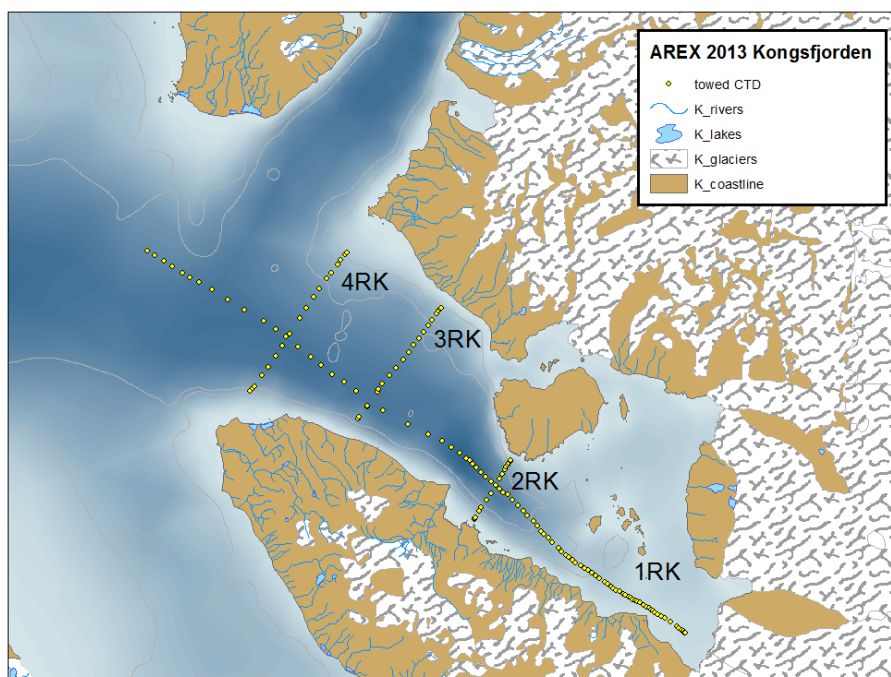


Fig 14. Planed CTD sections in Kongsfiorfen

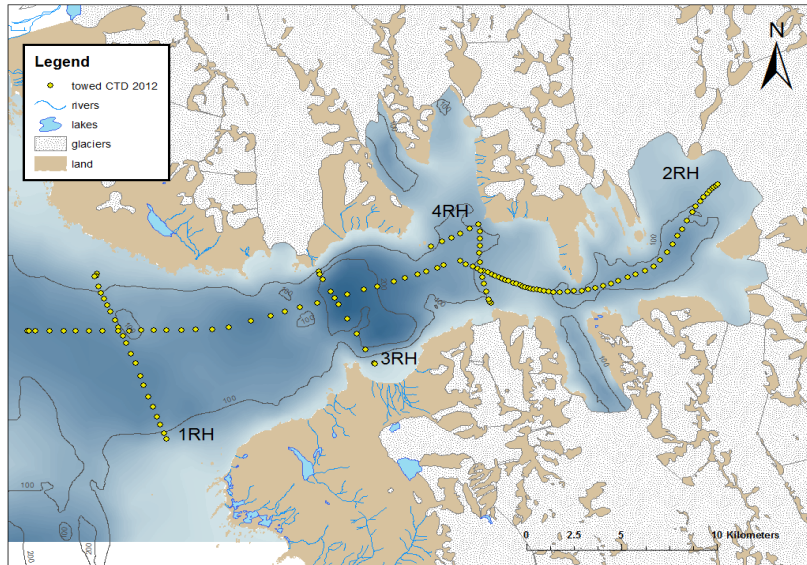


Fig. 15. Planed CTD sections in Hornsund.

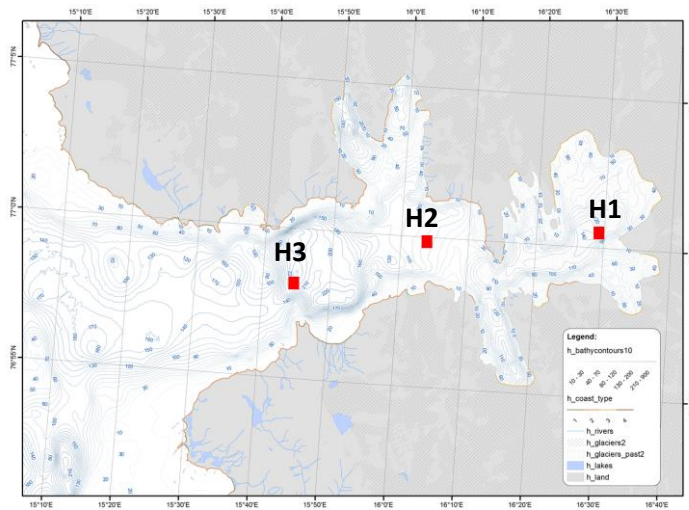


Fig. 16. Planned stations of benthos samples in Hornsund

Table 3. Positions of Benthos samples in Hornsund

Station	Longitude	Latitude
<b>H1</b>	<b>16 27.831</b>	<b>77 00.113</b>
<b>H2</b>	<b>16 05.082</b>	<b>77 00.074</b>
<b>H3</b>	<b>15 43.818</b>	<b>76 58.022</b>

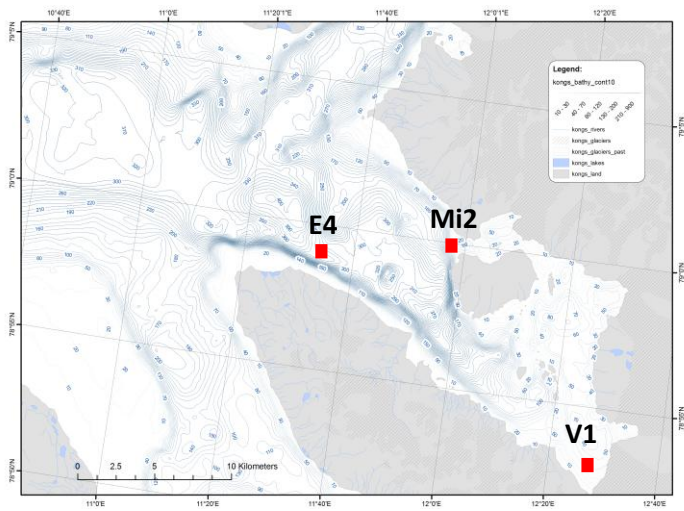


Fig 17. Planned stations of benthos samples in Kongsfiorden

Table 4. Positions of Benthos samples in Kongsfiorden.

Station	Longitude	Latitude
V1	12.47045	78.89258
Mi2	11.97500	78.99800
E4	11.50500	78.98000

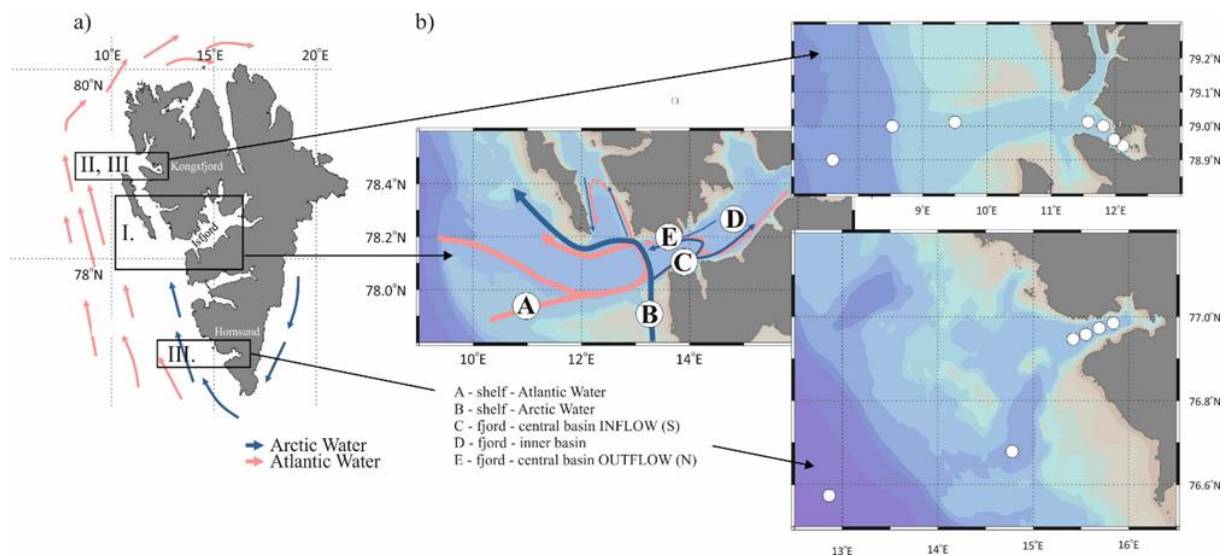


Fig 18. Overview map of the study area of Tax4Fun research project



**LEG 5. Maps and positions of stations.**

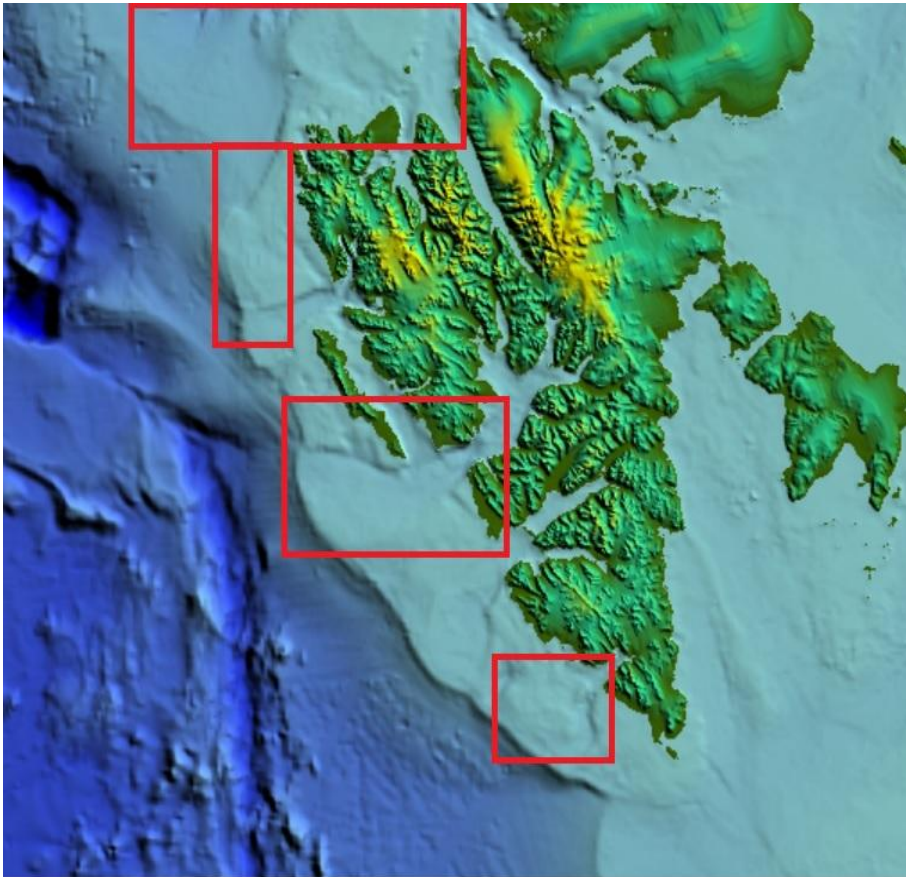


Fig 19. Planned stations of sediment cores samples in Spitsbergen region (Leg 5).



Fig 20. Planned stations of sediment cores samples in Bjornoya region (Leg 5).



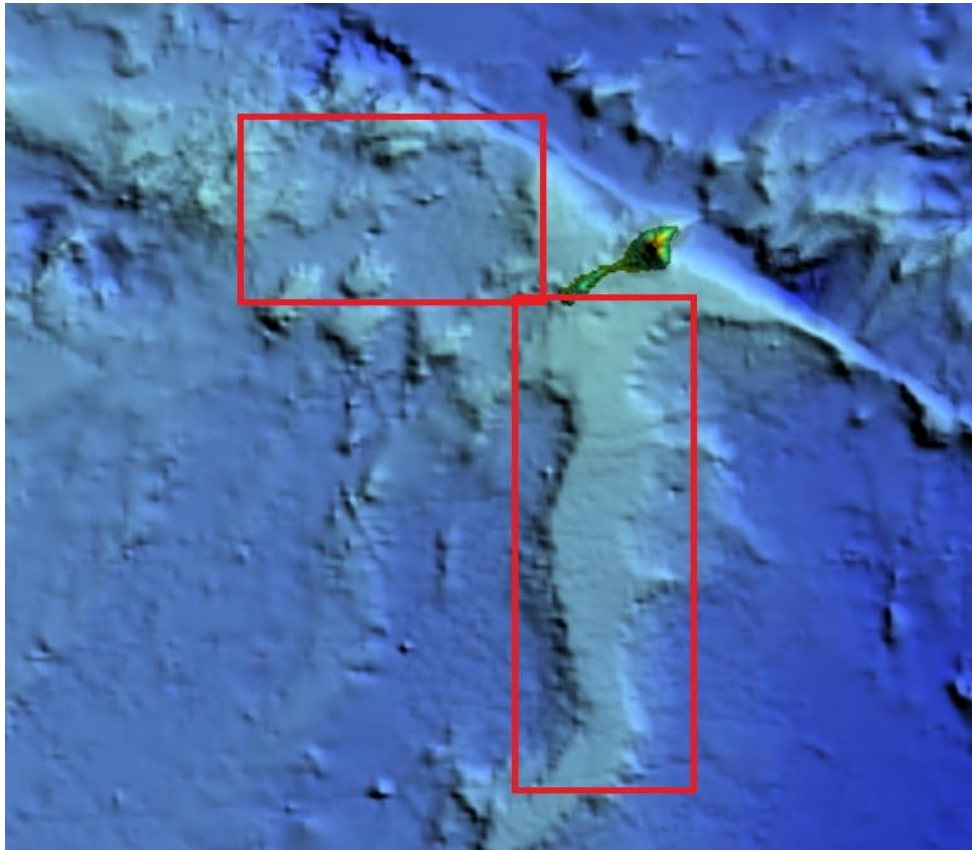


Fig 21. Planned stations of sediment cores samples in Jan Mayen region (Leg 5).

Table 5. Planed position of sediment sampling during the AREX2020 cruise, Leg 5

Station	Lat (deg.)	Lat (min.)	Lon (deg.)	Lon (min.)	Remarks
Hornsund	76	53.29 N	14	33.52 E	Sediment cores
Hornsund	76	58.57 N	15	43.24 E	Sediment cores
N Spitsbergen shelf	80	23.79	16	12.04 E	Sediment cores
NW Spitsbergen shelf	79	59.08 N	08	43.86 E	Sediment cores
NW Spitsbergen shelf	77	56.59 N	10	38,40 E	Sediment cores
Isfjorden	78	08,98 N	14	30.62 E	Sediment cores
Jan Mayen	70	39.28 N	09	23.95 W	Sediment cores
Jan Mayen	70	55.50 N	10	21.35 W	Sediment cores
Bjornoya	74	47.95 N	17	23.93 E	Sediment cores