



RV Aranda

CRUISE PLAN

Earthsea 3, 7/2021

29.8. - 3.9.2021

Description of the cruise

Purpose of the EARTHSEA cruise is to obtain information of sediment geochemistry, especially accumulated phosphorus at previously uninvestigated areas. Measurements of nutrient concentrations and turbidity of in water column are taken, in relation to development of algal blooms. Data collected during this cruise will be compared to simultaneously collected remote sensing data.

Scientific staff:

Chief scientist:	Hermann Kaartokallio	SYKE	
CTD chief:		SYKE	
Chief chemist:		SYKE	
		SYKE	03.09.2021 - 03.09.2021
		SYKE	03.09.2021 - 03.09.2021
		SYKE	03.09.2021 - 03.09.2021
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		FMI	03.09.2021 - 03.09.2021
		FMI	03.09.2021 - 03.09.2021
		SYKE	03.09.2021 - 03.09.2021
		SYKE	03.09.2021 - 03.09.2021
		SYKE	03.09.2021 - 03.09.2021
		GTK	03.09.2021 - 03.09.2021
		GTK	03.09.2021 - 03.09.2021

Altogether 15 persons in scientific staff.

Departure from: HELSINKI

Departure time: Sunday 29.08.2021 at 21.00

Cruising speed: 10,0 knots

Average station time: 0 h 30 min.

Arrival to: TURKU

Arrival time: Friday 03.09.2021 at 15.13

Duration of the cruise: 4 days 18 h 13 min

Length of the cruise: 337,20 nautical miles

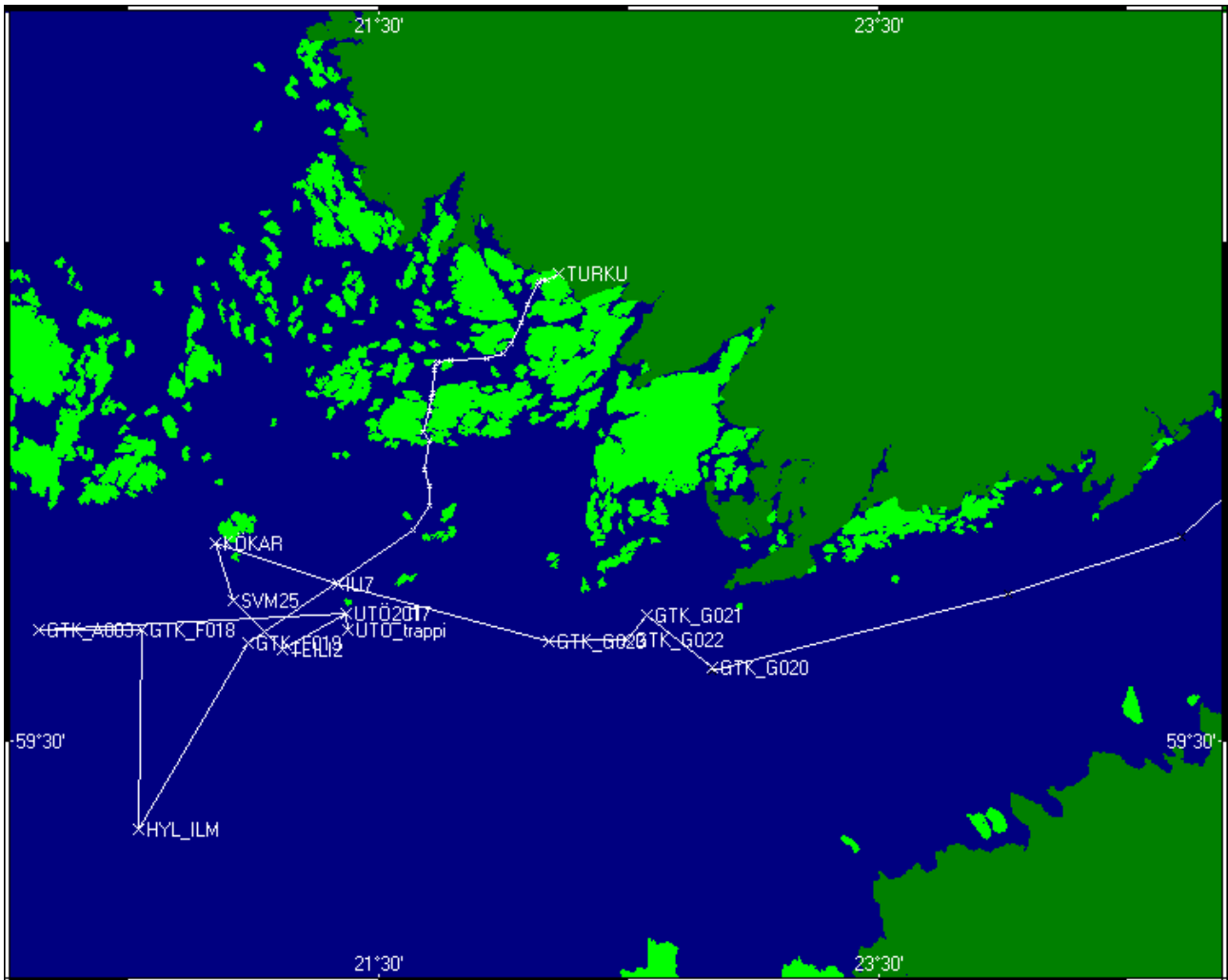
Number of stations 15. Points with name "P" are just route points without observations.

Route:

Nro	Station	Lat.	Long.	Depth		Arrival		Durat.	Speed
				[m]	hh:mm	dy	dd.mm.yyyy		
0	HELSINKI	60°09.55'	24°55.37'	0	21.00	Su	29.08.2021	0:00	S 10,0
1	P	59°59.81'	24°54.01'	-	21.58	Su	29.08.2021	0:00	S 10,0
2	P	59°54.61'	24°42.83'	-	22.44	Su	29.08.2021	0:00	S 10,0
3	P	59°47.79'	24°01.28'	-	00.56	Mo	30.08.2021	0:00	S 10,0
4	P	59°38.52'	22°50.18'	-	04.38	Mo	30.08.2021	0:00	S 10,0
5	GTK_G020	59°38.83'	22°50.11'	50	04.40	Mo	30.08.2021	4:00	S 10,0
6	GTK_G021	59°45.27'	22°34.39'	50	09.41	Mo	30.08.2021	4:00	S 10,0
7	GTK_G022	59°42.23'	22°29.70'	50	14.04	Mo	30.08.2021	4:00	S 10,0
8	GTK_G023	59°42.15'	22°10.82'	50	19.01	Mo	30.08.2021	10:00	S 10,0
9	IU7	59°48.91'	21°20.20'	92	07.39	Tu	31.08.2021	1:30	S 10,0
10	KÖKAR	59°54.00'	20°50.80'	115	10.43	Tu	31.08.2021	2:00	S 10,0
11	SVM25	59°47.05'	20°55.06'	50	13.27	Tu	31.08.2021	1:30	S 10,0
12	TEILI2	59°41.00'	21°06.80'	122	15.48	Tu	31.08.2021	2:00	S 10,0
13	UTÖ2017	59°45.51'	21°22.15'	50	18.41	Tu	31.08.2021	12:30	S 10,0
14	UTO_trappi	59°43.51'	21°22.33'	50	07.23	We	01.09.2021	2:00	S 10,0
15	UTO_CT	59°45.41'	21°22.13'	50	09.35	We	01.09.2021	12:00	S 10,0
16	GTK_A003	59°43.51'	20°08.06'	50	01.19	Th	02.09.2021	4:00	S 10,0
17	GTK_F018	59°43.51'	20°33.16'	50	06.35	Th	02.09.2021	12:00	S 10,0
18	HYL_ILM	59°19.20'	20°32.40'	50	21.01	Th	02.09.2021	2:00	S 10,0
19	GTK_F019	59°41.81'	20°58.58'	50	01.38	Fr	03.09.2021	7:00	S 10,0
20	P	59°55.50'	21°38.40'	-	11.04	Fr	03.09.2021	0:00	S 10,0
21	P	59°58.40'	21°42.15'	-	11.24	Fr	03.09.2021	0:00	S 10,0
22	P	60°00.75'	21°42.10'	-	11.39	Fr	03.09.2021	0:00	S 10,0
23	P	60°02.75'	21°41.10'	-	11.51	Fr	03.09.2021	0:00	S 10,0
24	P	60°06.20'	21°42.00'	-	12.12	Fr	03.09.2021	0:00	S 10,0
25	P	60°07.35'	21°40.47'	-	12.20	Fr	03.09.2021	0:00	S 10,0
26	P	60°09.80'	21°42.10'	-	12.36	Fr	03.09.2021	0:00	S 10,0

27	P	60°11.30'	21°42.50'	-	12.45	Fr	03.09.2021	0:00	S	10,0
28	P	60°12.00'	21°43.00'	-	12.49	Fr	03.09.2021	0:00	S	10,0
29	P	60°14.70'	21°43.20'	-	13.05	Fr	03.09.2021	0:00	S	10,0
30	P	60°15.47'	21°43.62'	-	13.10	Fr	03.09.2021	0:00	S	10,0
31	P	60°15.62'	21°44.22'	-	13.12	Fr	03.09.2021	0:00	S	10,0
32	P	60°15.90'	21°47.40'	-	13.22	Fr	03.09.2021	0:00	S	10,0
33	P	60°16.05'	21°56.00'	-	13.47	Fr	03.09.2021	0:00	S	10,0
34	P	60°16.73'	22°00.00'	-	14.00	Fr	03.09.2021	0:00	S	10,0
35	P	60°17.80'	22°01.80'	-	14.08	Fr	03.09.2021	0:00	S	10,0
36	P	60°20.30'	22°04.30'	-	14.25	Fr	03.09.2021	0:00	S	10,0
37	P	60°22.40'	22°05.84'	-	14.38	Fr	03.09.2021	0:00	S	10,0
38	P	60°24.76'	22°07.93'	-	14.54	Fr	03.09.2021	0:00	S	10,0
39	P	60°25.12'	22°08.60'	-	14.57	Fr	03.09.2021	0:00	S	10,0
40	P	60°25.30'	22°09.40'	-	14.59	Fr	03.09.2021	0:00	S	10,0
41	P	60°25.30'	22°10.60'	-	15.03	Fr	03.09.2021	0:00	S	10,0
42	P	60°26.25'	22°13.30'	-	15.13	Fr	03.09.2021	0:00	S	10,0
43	TURKU	60°26.25'	22°13.30'	0	15.13	Fr	03.09.2021	0:30	S	10,0

Route map:



Cruise plan is printed at 24.08.2021 ai 01.38.