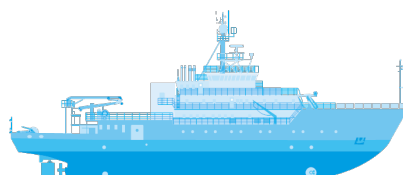


28.08.2026



ILMATIETEEN LAITOS



Ajelehtiminen2026

26/078

Description of the Research Project

Matkan päätarkoitus on tutkia Suomenlahden pintavirtauksia ajelehtimismallien kehittämiseksi ja verifioimiseksi. Matkalla tehdään useita kokeita Suomenlahden eri osissa pinnalla ajelehtivilla poijuilla. Ajelehtimiskokeiden aikana mitataan CTD-luotaimella (mm. suolaisuus, lämpötila ja happi) vesikerroksen rakennetta useassa eri kohdassa. Matkan ajaksi ankkuroidaan myös virtaus- ja aaltopoijut Suomenlahden länsiosaan. Matkaohjelma on suuntaa-antava, ajelehtimiskokeiden ja CTD-luotausten tarkka paikka päätetään matkan aikana tuuli- ja virtausolosuhteiden perusteella.

Matkan aikana tutkitaan myös Itämeren aerosolien lähteenä ja merellisten aerosolien roolia pilvien ja jään tiivistymisytiminä.

Lisäksi matkalla tehdään usean CTD-laitteen vertailumittauksia laitteiden tarkkuuden tarkistamiseksi sekä huolletaan meren ankkuroituja mittalaitteita varsinaisen Itämeren pohjoisosassa sekä Suomenlahdella.

Lead Principle Investigator

Heidi Pettersson

The main purpose of the cruise is to study the surface drift currents in the Gulf of Finland and to develop and verify surface drift models. Several drift experiments with surface drifters will be conducted in different parts of the Gulf of Finland. In connection to these experiments, the structure of the water column will be monitored with several CTD casts (e.g. salinity, temperature and oxygen). A current sensor and a wave buoy will be deployed for the duration of the cruise in the western part of the Gulf of Finland. The cruise plan is tentative, the exact locations of the drifting experiments and CTD casts will be decided during the cruise according to the wind and circulation conditions.

The second purpose of the cruise is to study the Baltic Sea as a source of aerosol particles acting as cloud condensation nuclei or ice-nucleating particles.

The third purpose of the cruise is to compare several CTD sensors to evaluate their accuracy and to maintain several deployed measuring equipment in the northern Baltic Proper and in the eastern Gulf of Finland.

Departure: 01.09.2026 at 10.00

Arrival: 10.09.2026 at 16.00

Cruise Speed: 10

Duration of the Cruise: 9Days 6h 0min

Number of observation stations 55. Route points named as "Waypoint" are transit points only.

Nr o	Name	Lat.	Long.	D ep th	Arrival			Duration		Speed
								hh	mm	
		[WGS-84]		[m]	hh:mm	pv	pp.kk.vvvv			knots
1	Jäänmu rtajalait uri Katajan okka				10.00	Tue	01.09.2026			
2	39A	60° 04.01' N	024° 58.81' E	42	10.36	Tue	01.09.2026	0	30	10
3	AALTO _HKI_P RO	59° 57.90' N	025° 14.11' E	54	12.05	Tue	01.09.2026	1	0	10
4	CURW A	59° 45.69' N	023° 43.90' E	40	17.47	Tue	01.09.2026	3	0	10
5	Waypoi nt	59° 38.24' N	021° 28.60' E		03.39	Wed	02.09.2026			10
6	ADCP_ UTO	59° 45.33' N	021° 21.45' E	75	04.27	Wed	02.09.2026	1	0	10
7	AALTO _UTO	59° 42.95' N	021° 22.10' E	71	05.41	Wed	02.09.2026	1	0	10
8	ADCP_ AALTO _UTO	59° 42.87' N	021° 12.24' E	57	07.11	Wed	02.09.2026	1	0	10
9	TPDee p1	59° 22.70' N	021° 26.47' E	21 6	10.20	Wed	02.09.2026	12	0	10
10	23	59° 19.50' N	023° 16.00' E	95	03.55	Thu	03.09.2026	1	0	10
11	SLLO4 N	59° 22.94' N	023° 16.91' E	11 4	05.16	Thu	03.09.2026	1	0	10

12	SLLO4	59° 26.97' N	023° 19.00' E	96	06.41	Thu	03.09.2026	1	0	10
13	SLLO3	59° 31.98' N	023° 17.63' E	87	08.12	Thu	03.09.2026	1	0	10
14	driftW1	59° 37.16' N	023° 14.41' E	62	09.44	Thu	03.09.2026	1	0	10
15	driftW2	59° 41.02' N	023° 12.76' E	63	11.08	Thu	03.09.2026	1	0	10
16	driftW3	59° 44.88' N	023° 13.85' E	51	12.31	Thu	03.09.2026	1	0	10
17	driftW4	59° 48.26' N	023° 16.98' E	45	13.54	Thu	03.09.2026	1	0	10
18	Drifting experiment1	59° 48.25' N 59° 40.37' N 59° 32.02' N 59° 35.20' N 59° 50.59' N 59° 48.25' N	023° 19.54' E 023° 15.51' E 023° 20.70' E 023° 44.93' E 023° 43.99' E 023° 19.54' E	10 0	15.52	Thu	03.09.2026	48	0	10
19	driftE35 -SLJP5	59° 28.02' N	023° 51.99' E	87	17.35	Sat	05.09.2026	1	0	10
20	driftE36 -SLJP4	59° 31.98' N	023° 50.56' E	83	18.59	Sat	05.09.2026	1	0	10
21	driftE37 -SLJP3	59° 35.97' N	023° 49.11' E	71	20.24	Sat	05.09.2026	1	0	10
22	driftW1 8- SLJP2	59° 39.88' N	023° 47.66' E	70	21.48	Sat	05.09.2026	1	0	10
23	driftW1 9	59° 43.64' N	023° 48.47' E	58	23.10	Sat	05.09.2026	1	0	10
24	driftW2 0	59° 45.70' N	023° 48.26' E	53	00.23	Sun	06.09.2026	1	0	10
25	driftW2 1	59° 47.90' N	023° 52.30' E	52	01.41	Sun	06.09.2026	1	0	10
26	Drifting experiment2	59° 37.80' N 59° 42.49' N 59° 52.00' N 59° 52.46' N 59° 41.33' N 59° 37.80' N	023° 53.78' E 023° 51.36' E 023° 55.41' E 024° 14.97' E 024° 11.48' E 023° 53.78' E	83	03.18	Sun	06.09.2026	24	0	10
27	driftW2 5	59° 49.76' N	024° 16.23' E	72	04.06	Mon	07.09.2026	1	0	10

28	driftW2 6	59° 46.37' N	024° 16.40' E	59	05.26	Mon	07.09.2026	1	0	10
29	driftW2 7	59° 43.37' N	024° 13.98' E	58	06.46	Mon	07.09.2026	1	0	10
30	driftE39	59° 39.40' N	024° 16.21' E	73	08.11	Mon	07.09.2026	1	0	10
31	19	59° 36.50' N	024° 21.00' E	82	09.33	Mon	07.09.2026	1	0	10
32	CURW A	59° 45.69' N	023° 43.90' E	40	12.39	Mon	07.09.2026	2	0	10
33	CTsnitX _ADCP _AK	60° 03.96' N	025° 25.98' E	31	20.05	Mon	07.09.2026	0	30	10
34	Drifting experim ent3	60° 06.29' N 60° 11.84' N 60° 07.09' N 60° 00.51' N 59° 54.20' N 60° 06.29' N	025° 32.78' E 026° 10.18' E 026° 17.58' E 026° 18.24' E 025° 39.39' E 025° 32.78' E	82	22.03	Mon	07.09.2026	29	0	10
35	CTsnitX 2	60° 02.10' N	025° 32.28' E	56	04.13	Wed	09.09.2026	1	0	10
36	ehdotus Huis te Warmel o	59° 59.13' N	025° 32.29' E	62	05.31	Wed	09.09.2026	1	0	10
37	LL5x	59° 54.60' N	025° 35.57' E	73	07.00	Wed	09.09.2026	1	0	10
38	14	59° 50.00' N	025° 37.00' E	74	08.28	Wed	09.09.2026	1	0	10
39	E80	59° 43.00' N	025° 42.50' E	77	10.13	Wed	09.09.2026	1	0	10
40	GFC10	59° 42.24' N	026° 32.40' E	92	13.44	Wed	09.09.2026	0	15	10
41	GOFC bottom	59° 44.91' N	026° 30.23' E	83	14.17	Wed	09.09.2026	0	15	10
42	GFC6	59° 48.18' N	026° 27.96' E	63	14.52	Wed	09.09.2026	0	15	10
43	GFC4	59° 50.46' N	026° 23.94' E	72	15.26	Wed	09.09.2026	0	15	10
44	GCS2	59° 53.52' N	026° 21.66' E	71	16.00	Wed	09.09.2026	0	15	10
45	fridt- vaylalla	59° 57.96' N	026° 18.00' E	71	16.44	Wed	09.09.2026	0	15	10
46	CT- LL3sout h	60° 00.85' N	026° 21.63' E	86	17.20	Wed	09.09.2026	1	0	10

47	LL3A	60° 04.03' N	026° 20.80' E	67	18.39	Wed	09.09.2026	1	0	10
48	CT- CTD	60° 07.77' N	026° 19.80' E	56	20.02	Wed	09.09.2026	1	0	10
49	CT- ADCPO RRE	60° 11.13' N	026° 17.94' E	57	21.23	Wed	09.09.2026	1	0	10
50	XV1	60° 15.00' N	027° 14.82' E	68	01.14	Thu	10.09.2026	1	0	10
51	ADCP_ GoF_X V1_25	60° 14.77' N	027° 15.49' E	62	02.16	Thu	10.09.2026	1	0	10
52	CT- ketju_pi nta	60° 07.55' N	026° 20.16' E	63	06.07	Thu	10.09.2026	1	0	10
53	CT- ketju_p ohja	60° 07.51' N	026° 20.03' E	59	07.07	Thu	10.09.2026	1	0	10
54	ADCP_ ORRE_ 26	60° 11.02' N	026° 17.90' E	50	08.29	Thu	10.09.2026	1	0	10
55	ADCP_ AKC1_ 25	60° 04.00' N	025° 25.62' E	34	12.11	Thu	10.09.2026	1	0	10
56	AALTO _HKI_P RO	59° 57.90' N	025° 14.11' E	54	14.02	Thu	10.09.2026	1	0	10
57	Tamma saarenl aituri	60° 09.69' N	024° 54.12' E		16.00	Thu	10.09.2026			

