



RV Aranda

Cruise plan 1/2019

Combine 1 Leg 1 GOF

22. - 25.1.2019

Description of the cruise:

Monitoring of chemical and physical parameters:

dissolved/dispersed oil

temperature,

salinity,

dissolved oxygen,

dissolved hydrogen sulphide and

dissolved nutrients

in the Gulf of Finland according to HELCOM MONAS and EU Marine Framework Strategy Directive.

Additionally

* MSDF sediment sampling (JML, LL3a and XV1)

* collection of bulk sea water for phytoplankton research (ca. 900 litres, ca. 6 PSU, station to be determined)

* marine litter sampling

* wave buoy retrieval

Chief scientist: Harri Kankaanpää, SYKE

Chief chemist: Ilkka Lastumäki, SYKE, 25.01. - 25.01.

CTD-chief: Janne Bruun, SYKE, 25.01. - 25.01.

IT-chief: Janne Bruun, SYKE, 25.01. - 25.01.

Staff: Jan-Erik Bruun, SYKE, 25.01. - 25.01.
 Juha Flinkman, SYKE, 25.01. - 25.01.
 Riikka Hietala, FMI, 25.01. - 25.01.
 Martti Honkanen, FMI, 25.01. - 25.01.
 Susanna Hyvärinen, SYKE, 25.01. - 25.01.
 Tanja Kinnunen, SYKE, 25.01. - 25.01.
 Pekka Kosloff, FMI, 25.01. - 25.01.
 Maiju Lehtiniemi, SYKE, 25.01. - 25.01.
 Jere Riikonen, SYKE, 25.01. - 25.01.
 Outi Setälä, SYKE, 25.01. - 25.01.
 Pia Varmanen, SYKE, 25.01. - 25.01.

Altogether 14 scientists.

Departure: HELSINKI Tuesday 22.01.2019 at 15:00

Arrival: HANKO Friday 25.01.2019 at 14:05

Cruising speed: 10.0 knots.

Duration of the cruise: 2 days 23 h 5 min

Length of the cruise: 284,35 nautical miles.

Number of observation stations 15 . Route points named as "P" are transit points only.

Route:

Nro	Name	Lat.	Long.	Depth	Arrival			Duration		Speed
		[WGS-84]		[m]	hh:mm	pv	pp.kk.vvvv	hh	mm	knots
0	HELSINKI	60°09.55'	24°55.37'	0	15:00	ti	22.01.2019	0	0	S 9.00
1	39A	60°04.01'	24°58.81'	41	15:38	ti	22.01.2019	2	0	S 9.00
2	XV1	60°15.00'	27°14.82'	64	01:15	ke	23.01.2019	3	30	S 9.00
3	XIV3	60°12.19'	26°11.57'	77	08:15	ke	23.01.2019	2	0	S 9.00
4	LL3A	60°04.03'	26°20.80'	68	11:18	ke	23.01.2019	3	30	S 9.00
5	GF2	59°50.31'	25°51.41'	84	17:02	ke	23.01.2019	2	0	S 9.00
6	LL5	59°55.01'	25°35.82'	70	20:03	ke	23.01.2019	3	0	S 9.00
7	LL6A	59°55.01'	25°01.81'	75	00:57	to	24.01.2019	3	0	S 9.00
8	LL7	59°50.79'	24°50.27'	100	04:44	to	24.01.2019	4	30	S 9.00
9	GF1	59°42.30'	24°40.93'	84	10:19	to	24.01.2019	2	0	S 9.00
10	LL9	59°42.01'	24°01.81'	69	14:31	to	24.01.2019	3	0	S 9.00
11	XII3	59°52.01'	23°58.81'	38	18:38	to	24.01.2019	2	0	S 9.00
12	JML	59°34.91'	23°37.61'	80	22:52	to	24.01.2019	3	30	S 9.00
13	F62	59°20.01'	23°15.81'	95	04:26	pe	25.01.2019	2	0	S 9.00
14	LÄNGDEN	59°46.61'	23°15.77'	57	09:24	pe	25.01.2019	2	0	S 9.00
15	LÄNGDEN PP	59°45.43'	23°13.20'	-9	11:35	pe	25.01.2019	1	30	S 9.00
16	HANKO	59°49.01'	22°56.81'	0	14:05	pe	25.01.2019	0	0	S 9.00

