

*RV Aranda*

# **Cruise plan**

## **CFLUX16**

**4. - 15.4.2016**

### **Description of the cruise:**

The two main objectives are:

- 1) to study the phytoplankton community composition and its effect on biogeochemical cycling of nutrients
- 2) to investigate the salt water influx

**Chief scientist:** Kristian Spilling, SYKE

Chief chemist: Ilkka Lastumäki, SYKE, 04.04. - 15.04.

Chief biologist: Kristian Spilling, SYKE, 04.04. - 15.04.

CTD-chief: Jan-Erik Bruun, SYKE, 04.04. - 15.04.

Staff: Teresa Camarena, SYKE, 04.04. - 15.04.

Henrik Hedberg, SYKE, 04.04. - 15.04.

Anna-Stiina Heiskanen, SYKE, 04.04. - 15.04.

Riikka Hietala, FMI, 04.04. - 15.04.

Susanna Hyvärinen, SYKE, 04.04. - 15.04.

Heini Jalli, FMI, 04.04. - 15.04.

Markku Jansson, FMI, 04.04. - 15.04.

Jarkko Jyrälä, SYKE, 04.04. - 15.04.

Pertti Jämsén, FMI, 04.04. - 15.04.

Paula Kankaanpää, SYKE, 04.04. - 15.04.

Tarja Katajisto, SYKE, 04.04. - 15.04.

Pekka Kosloff, FMI, 04.04. - 15.04.  
 Maiju Lehtiniemi, SYKE, 04.04. - 15.04.  
 Tobias Lipsewers, SYKE, 04.04. - 15.04.  
 Jonna Piiparinen, SYKE, 04.04. - 15.04.  
 Tero Purokoski, FMI, 04.04. - 15.04.  
 Tuomo Roine, FMI, 04.04. - 15.04.  
 Laura Uusitalo, SYKE, 04.04. - 15.04.  
 Pia Varmanen, SYKE, 04.04. - 15.04.  
 Riina Klais, UNIVTARTU, 04.04. - 15.04.  
 Tobias Tamelander, UNIVHELSINKI, 04.04. - 15.04.  
 Antonio Fuentes, UNIVVIGO, 04.04. - 15.04.  
 Mari Vanharanta, UNIVHELSINKI, 04.04. - 15.04.  
 Denis Loctier, EURONEWS, 04.04. - 15.04.  
 Thierry Winn, EURONEWS, 04.04. - 15.04.  
 Maria Uyarra, AZTI, 04.04. - 15.04.  
 Alicia Martinez, UNIVGLASGOW, 04.04. - 15.04.

Altogether 30 scientists.

**Departure: HELSINKI Monday 04.04.2016 at 12:30**

**Arrival: HELSINKI Friday 15.04.2016 at 14:03**

Cruising speed: 10.0 knots.

Duration of the cruise: 11 days 1 h 33 min

Length of the cruise: 1295.65 nautical miles.

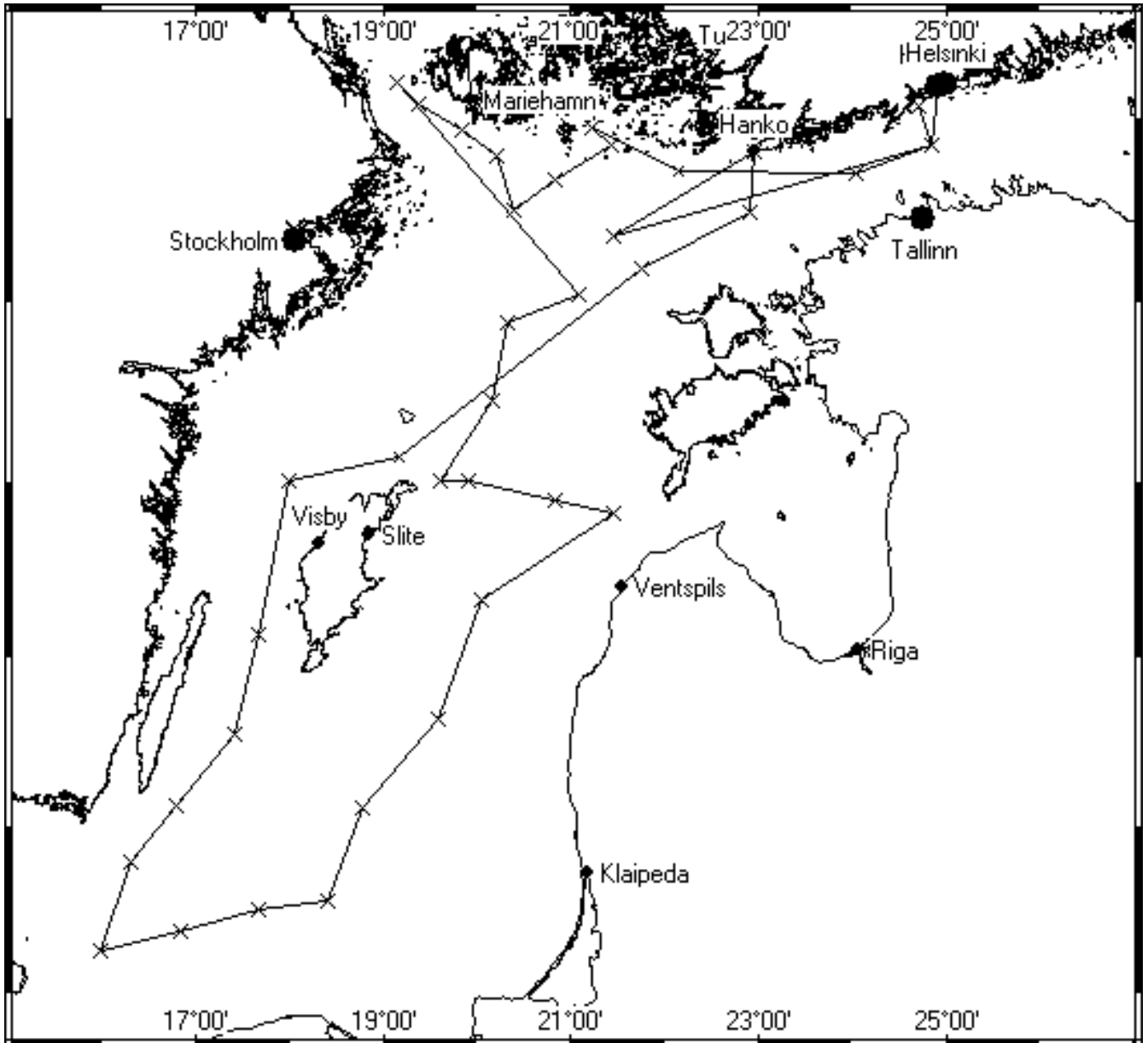
Number of observation stations 34 . Route points named as "P" are transit points only.

**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	12:30	ma	04.04.2016	0	0	S 10.00
1	MET_ESPOO	60°03.47'	24°43.08'	18	13:21	ma	04.04.2016	1	0	S 10.00
2	LL7	59°50.79'	24°50.27'	100	15:40	ma	04.04.2016	1	0	S 10.00
3	TPDEEP	59°21.81'	21°26.79'	200	03:22	ti	05.04.2016	21	0	S 10.00
4	HANKO	59°49.01'	22°56.81'	0	05:40	ke	06.04.2016	3	0	S 10.00
5	HANKO	59°49.01'	22°56.81'	0	08:40	ke	06.04.2016	0	0	S 10.00
6	LL12	59°29.01'	22°53.81'	82	10:41	ke	06.04.2016	2	0	S 10.00
7	LL15	59°11.00'	21°44.81'	126	16:38	ke	06.04.2016	2	0	S 10.00
8	P	58°07.88'	19°09.36'	-9	04:53	to	07.04.2016	0	0	S 10.00
9	BY32	57°59.99'	17°59.81'	205	08:39	to	07.04.2016	2	0	S 10.00
10	BY38	57°07.00'	17°40.00'	108	16:03	to	07.04.2016	13	0	S 10.00
11	WGB1	56°32.40'	17°25.20'	70	08:36	pe	08.04.2016	1	0	S 10.00

12	O	56°06.78'	16°47.29'	43	12:55	pe	08.04.2016	1	0	S	10.00
13	F96AW	55°46.90'	16°17.80'	60	16:30	pe	08.04.2016	12	0	S	10.00
14	BY5	55°15.00'	15°59.00'	90	07:52	la	09.04.2016	1	0	S	10.00
15	BS63	55°21.50'	16°50.00'	66	11:51	la	09.04.2016	1	0	S	10.00
16	STO15	55°30.00'	17°40.00'	56	15:48	la	09.04.2016	1	0	S	10.00
17	BCSIII10	55°33.00'	18°24.00'	90	19:19	la	09.04.2016	9	0	S	10.00
18	BOSEXC1	56°06.00'	18°46.00'	120	07:50	su	10.04.2016	1	0	S	10.00
19	BY10	56°38.00'	19°35.00'	145	13:02	su	10.04.2016	1	0	S	10.00
20	BY15	57°19.20'	20°03.00'	238	18:26	su	10.04.2016	8	0	S	10.00
21	X17	57°48.70'	21°26.80'	56	07:48	ma	11.04.2016	1	0	S	10.00
22	X15	57°53.30'	20°50.00'	91	10:49	ma	11.04.2016	1	0	S	10.00
23	BY20A	58°00.00'	19°54.00'	186	14:52	ma	11.04.2016	1	0	S	10.00
24	X11	58°00.00'	19°36.00'	120	16:49	ma	11.04.2016	12	0	S	10.00
25	F79	58°27.00'	20°10.00'	100	08:03	ti	12.04.2016	1	0	S	10.00
26	BY29	58°53.00'	20°19.00'	170	11:42	ti	12.04.2016	1	0	S	10.00
27	LL17	59°02.00'	21°04.77'	171	15:13	ti	12.04.2016	8	0	S	10.00
28	F64	60°11.34'	19°08.55'	285	08:19	ke	13.04.2016	1	0	S	10.00
29	S4B	60°03.80'	19°22.50'	218	10:20	ke	13.04.2016	1	0	S	10.00
30	F67	59°56.00'	19°49.80'	205	12:54	ke	13.04.2016	1	0	S	10.00
31	NOL27	59°47.50'	20°12.30'	180	15:19	ke	13.04.2016	15	0	S	10.00
32	F71	59°30.07'	20°23.27'	155	08:09	to	14.04.2016	1	0	S	10.00
33	H3	59°40.00'	20°50.00'	-9	10:50	to	14.04.2016	1	0	S	10.00
34	UTÖ	59°51.00'	21°25.80'	30	13:56	to	14.04.2016	1	0	S	10.00
35	IU6	59°56.21'	21°13.26'	120	15:45	to	14.04.2016	7	0	S	10.00
36	P	59°42.56'	22°08.75'	-9	01:52	pe	15.04.2016	0	0	S	10.00
37	LL9	59°42.01'	24°01.81'	69	07:34	pe	15.04.2016	1	0	S	10.00
38	LL7	59°50.79'	24°50.27'	100	11:10	pe	15.04.2016	1	0	S	10.00
39	HELSINKI	60°09.55'	24°55.37'	0	14:03	pe	15.04.2016	1	0	S	10.00

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Route of the cruise CFLUX16.