



RV Aranda

# ***Cruise plan 5/2015***

## ***SL1 & Nord Stream 1***

### **18. - 21.5.2015**

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

To monitor the environmental state of the Gulf of Finland

**Chief scientist:** Mika Raateoja, SYKE

Chief chemist: Mika Raateoja, SYKE, 21.05. - 21.05.

CTD-chief: Jan-Erik Bruun, SYKE, 21.05. - 21.05.

IT-chief: Jan-Erik Bruun, SYKE, 21.05. - 21.05.

Staff: Jalli Heini, FMI, 21.05. - 21.05.

Hedberg Henrik, SYKE, 21.05. - 21.05.

Kirsi Hyvärinen, SYKE, 21.05. - 21.05.

Susanna Hyvärinen, SYKE, 21.05. - 21.05.

Marko Jaale, SYKE, 21.05. - 21.05.

Markku Jansson, FMI, 21.05. - 21.05.

Jyrälä Jarkko, SYKE, 21.05. - 21.05.

Tanja Kinnunen, SYKE, 21.05. - 21.05.

Pekka Kosloff, FMI, 21.05. - 21.05.

Setälä Outi, SYKE, 21.05. - 21.05.

Jere Riikonen, SYKE, 21.05. - 21.05.

Reinimäki Saara, SYKE, 21.05. - 21.05.

Pia Varmanen, SYKE, 21.05. - 21.05.

Mesiniemi Riku, HY, 21.05. - 21.05.

Jalo Mikko, SIVIILIPALVELUSMIES, 21.05. - 21.05.

Hellsten Konsta, SIVIILIPALVELUSMIES, 21.05. - 21.05.

Altogether 18 scientists.

**Departure: HELSINKI Monday 18.05.2015 at 12:00**

**Arrival: HELSINKI Thursday 21.05.2015 at 16:38**

Cruising speed: 10.0 knots.

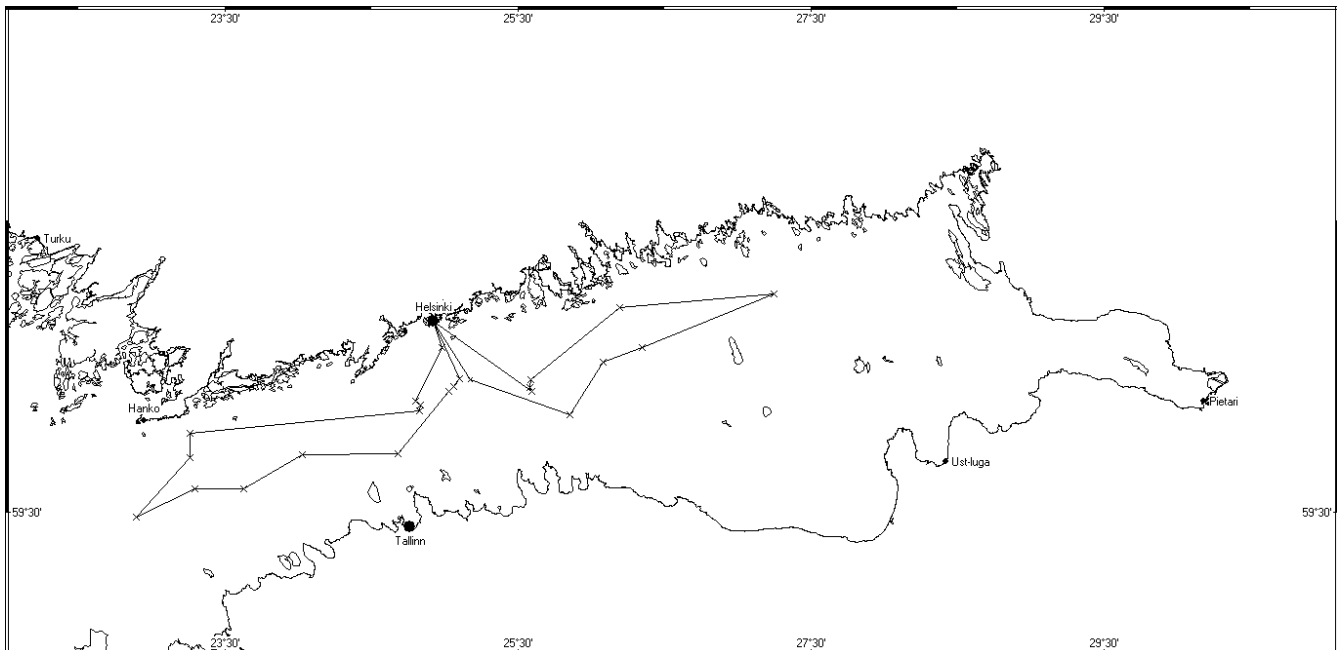
Duration of the cruise: 3 days 4 h 38 min

Length of the cruise: 348.46 nautical miles.

Number of observation stations 22 . 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	12:00	ma	18.05.2015	0	0	S 10.00
1	39A	60°04.01'	24°58.81'	41	12:34	ma	18.05.2015	1	0	S 10.00
2	LL7BEN_B	59°53.06'	24°48.22'	-9	14:47	ma	18.05.2015	1	0	S 10.00
3	LL7BEN-A	59°52.26'	24°50.02'	-9	15:55	ma	18.05.2015	1	0	S 10.00
4	LL7S	59°51.01'	24°49.81'	78	17:02	ma	18.05.2015	2	0	S 10.00
5	Längden	59°46.36'	23°15.59'	60	23:48	ma	18.05.2015	1	30	S 10.00
6	AMN	59°41.43'	23°15.43'	56	01:47	ti	19.05.2015	1	0	S 10.00
7	LL12	59°29.01'	22°53.81'	82	04:27	ti	19.05.2015	2	0	S 10.00
8	LL11	59°35.01'	23°17.81'	68	07:48	ti	19.05.2015	3	0	S 10.00
9	JML	59°34.91'	23°37.61'	80	11:48	ti	19.05.2015	2	0	S 10.00
10	LL9	59°42.01'	24°01.81'	69	15:13	ti	19.05.2015	2	30	S 10.00
11	GF1	59°42.30'	24°40.93'	84	19:41	ti	19.05.2015	2	30	S 10.00
12	LL6A	59°55.01'	25°01.81'	75	23:50	ti	19.05.2015	2	0	S 10.00
13	LL6ABEN-A	59°56.17'	25°03.51'	71	01:59	ke	20.05.2015	1	15	S 10.00
14	LL6ABEN-B	59°57.67'	25°06.01'	71	03:26	ke	20.05.2015	1	15	S 5.00
15	HELSINKI	60°09.55'	24°55.37'	0	07:17	ke	20.05.2015	0	30	S 10.00
16	LL5	59°55.01'	25°35.82'	70	10:16	ke	20.05.2015	2	0	S 10.00
17	LL5BEN-A	59°55.90'	25°34.91'	70	12:22	ke	20.05.2015	1	15	S 10.00
18	LL5BEN-B	59°57.56'	25°35.16'	70	13:47	ke	20.05.2015	1	15	S 10.00
19	XIV3	60°12.19'	26°11.57'	77	17:22	ke	20.05.2015	1	15	S 10.00
20	XV1	60°15.00'	27°14.82'	64	21:46	ke	20.05.2015	3	15	S 10.00
21	LL3A	60°04.03'	26°20.80'	68	03:55	to	21.05.2015	4	0	S 10.00
22	LL4A	60°01.01'	26°04.81'	60	08:47	to	21.05.2015	1	30	S 10.00
23	GF2	59°50.31'	25°51.41'	84	11:33	to	21.05.2015	1	30	S 10.00
24	P	59°57.50'	25°10.47'	-9	15:13	to	21.05.2015	0	0	S 10.00
25	HELSINKI	60°09.55'	24°55.37'	0	16:38	to	21.05.2015	0	0	S 10.00



Route of the cruise SL1 & Nord Stream 1.