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Ödsmål, Kville sn, Bohuslän

Hällristning
Fiskare från
bronsåldern

Rock carving
Bronze age
fishermen



**MEDDELANDE från
HAVSFISKELABORATORIET · LYSEKIL**

Hydrografiska avdelningen, Göteborg

DATA OF MEASUREMENTS IN THE HANÖ BIGHT
AUGUST - SEPTEMBER 1971 AND MARCH 1973
(R/V EYSTRASALT)

by

Karl Erik Berntsson and Artur Svansson

November 1973

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155

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INTRODUCTION, METHODS

During the late summer of 1969 and 1970 hydrographical and biological measurements were carried out in the Hanö Bight in order to possibly shed some light on the problem of a decline in the eel fishing between the two arms of the Helgeå river outlet into the bight. The results were published in Meddelande från Havsfiskelaboratoriet no 97 and 103.

During the periods August 30 - September 2, 1971 and March 12 - 15 1973 new observations were made. These times mostly surface measurements were carried out and thereby more stations could be visited.

The methods used for the parameters measured in 1971 and 1973 are listed below.

Temperature was read in a bucket with an ordinary thermometer of 0.1 °C accuracy and also from reversing thermometers at standard depths.

Salinity was determined with a laboratory salinometer, type Hytech, Bisset-Berman and in situ salinometer type NIO at some depths.

Oxygen (O₂) was determined according to Winkler.

BS7 (e.g. BOD7), the biochemical oxygen demand was determined on almost all stations as the difference between oxygen determined immediately and after one week of dark storage.

KMnO₄ - Consumption (=e.g. COD), the chemical oxygen demand was determined in an alkaline medium by the Nymölla Pulp Industry.

Phosphate - Phosphorus (PO₄-P) was determined at all stations according to Murphy and Riley.

Total Phosphorus (Tot.P) was determined in the laboratory according to Koroleff (1970).

Colour (Färg) was determined by the Nymölla Pulp Industry. The method used is published in "Standard Methods for the Examination of Water, Sewage and Industrial Wastes". American Public Health Association, Inc.

Secchi disc. The depth for the disappearance of a white-painted disc of 30 cm diameter was noted. No water telescope was used.

Attenuation (RG) was measured by a one-meter in situ beam transmittance meter and only with red filter, RG1. The intensity u_w was determined by a Speedomax current recorder with the measuring unit in situ and u_a with the measuring unit in air in a darkroom. For the red filter RG1 (655 nm) the transmittance $T_{RG} = 0.48 u_w/u_a$ was computed. The attenuation coefficients listed ($RG\ m^{-1}$) represent $-e \log T$.

Yellow Substance (Absorption) in the wavelength of 380 nm of filtered (through a 0.6 μ millipore filter) sample in 5 cm cuvette. This was done a few weeks afterwards. From the absorption in 380 nm was computed

$$C_{380} = \frac{A_{380} \times 20}{10 \log e}$$

This is the method by Jerlov (1955).

Bathythermographs measurements were made at every station. Photographs of all slides are stored at the Hydrographic Department of The Fishery Board.

Phytoplankton Species were identified and counted by Ruth Hobro, Stockholm, in 100 ml samples drawn from the ordinary water sample. The samples from 1973 are not yet counted.

Zooplankton Species were identified and counted by Roger Lindblom, Göteborg (1971) and Lars Hernroth, Lysekil (1973). Sampling was made with a conical plankton net, with a diameter of 1 m (1971) and 0.5 m (1973). Most hauls were made from 5 m to surface.

Determination differed somewhat 1971 and 1973

1971:

To each sample water was added to a total volume of 1000 cc. A sub-sample of 20 cc was drawn twice, and the animals counted. The figures obtained were thus multiplied by a factor of 50 to represent the entire sample. The table shows the mean number of the two sub-samples for each species.

1973:

From each sample a sub-sample was taken and counted in a counting-chamber.

Species occurrence, (1973)

0 = no specimens in the sample

1 = few specimens in the sample, about 1.5 % of the total number of specimens

2 = less abundant, about 6 - 25 % of the total number of specimens

3 = abundant, about 26 - 50 % of the total number of specimens

4 = very abundant, more than 50 % of the total number of specimens

Note: In samples where the total sum of individuals was low, the species most abundant was not given figure 4 but instead figure 3, even if comprising more than 50 % of the sample. This way a more accurate comparison between the different samples was obtained.

Discussion.

710830 - 710902: The weather conditions were similar to those in 1969 and 1970: Winds from S - SW and rather strong upwelling along the coast. At the tube exit (Stn. 0) the yellow substance values only slightly above the Baltic background values, but they were considerable in Saxaviken and the Bay of Sölvesborg (Stations no 54, 57 and 58). Total phosphorus was high in the Bay of Sölvesborg and in Åhus Harbor. Permanganate was for the first time measured by the correct alkaline method. Whereas the open sea values were around 15 mg/l, at more than half of the stations there were values of 20 - 23 mg/l.

730312 - 730315: This time the wind situation was different: NE winds prevailed during the measurements but there had apparently been an upwelling situation right before, if we judge from the high salinities along the coast. Nevertheless the yellow substance values are high, at station 0 doubled in relation to background.

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- Jerlov, N.G., 1955: Factors influencing the transparency of the Baltic waters. Medd. fr. Oceanogr. Inst. Göteborg Nr. 25.
- Koroleff, F., 1970: Determination of total phosphorus in natural waters by means of per sulphate oxidation. ICES, Information on techniques and methods for sea water analysis, No. 3.

14° 20'

15° 00'

Station Map

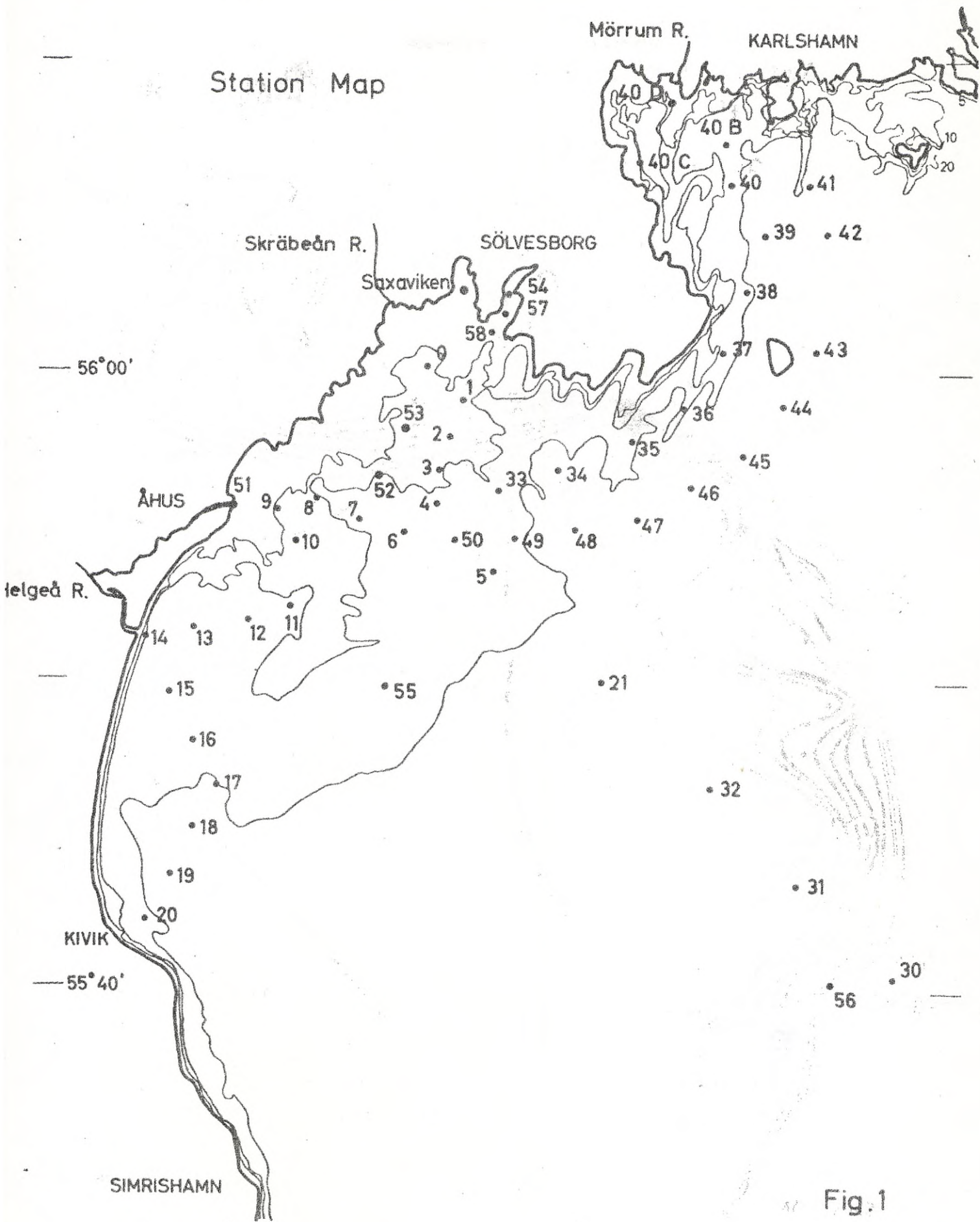


Fig. 1

14° 20'

6.
15° 00'

Aug. 30 – Sep. 2 1971

t°C

at 8 m depth

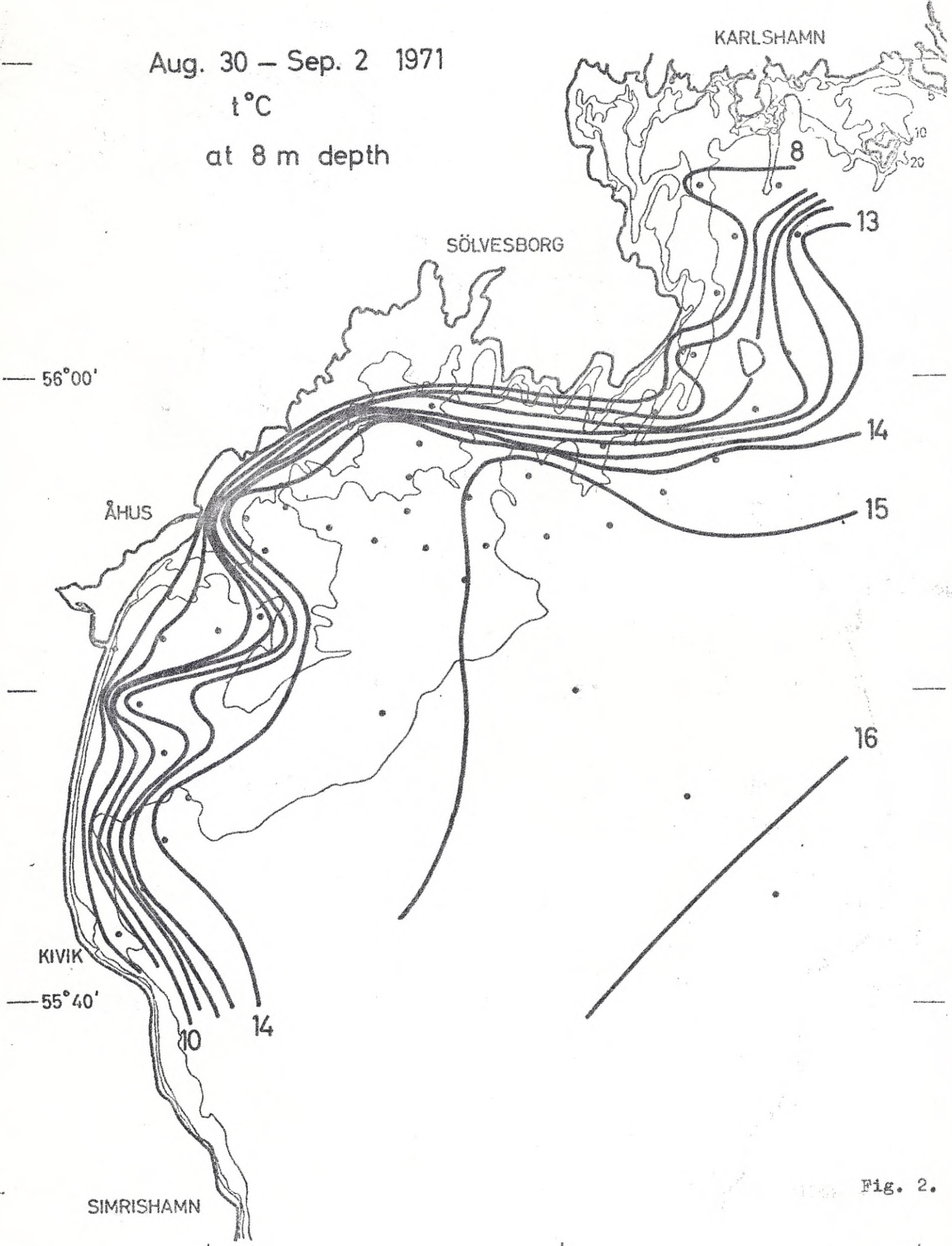


Fig. 2.

14° 20'

7.

15° 00'

Aug. 30 — Sep. 2 1971

Surface Data

S‰

KARLSHAMN

SÖLVESBORG

7.6

7.4

7.5

ÅHUS

7.6

KIVIK

7.6

7.7

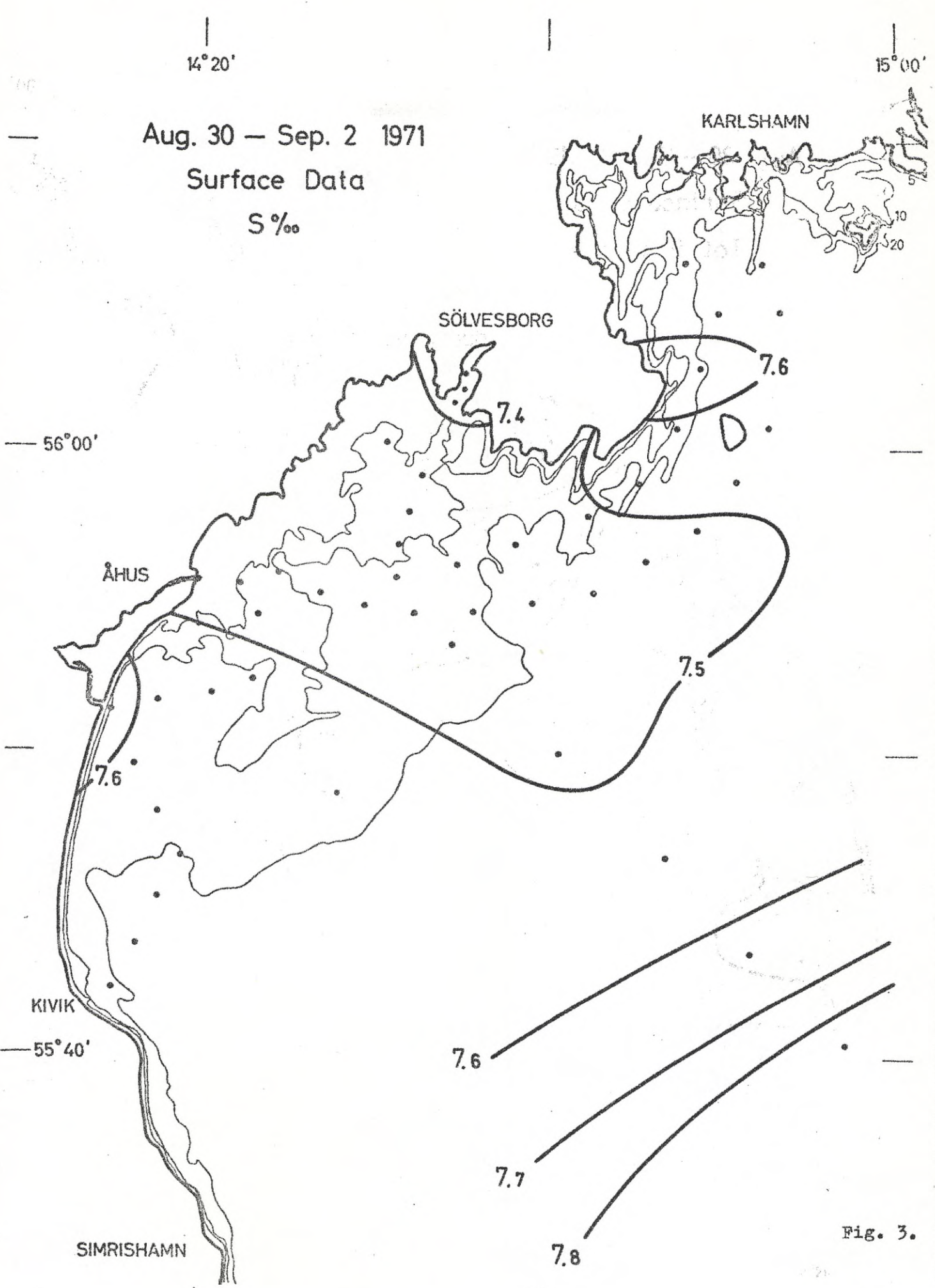
7.8

SIMRISHAMN

56° 00'

55° 40'

Fig. 3.



14° 20'

15° 00'

Aug. 30 - Sep. 2 1971

Surface Data

Tot. P $\mu\text{g}/\text{l}$

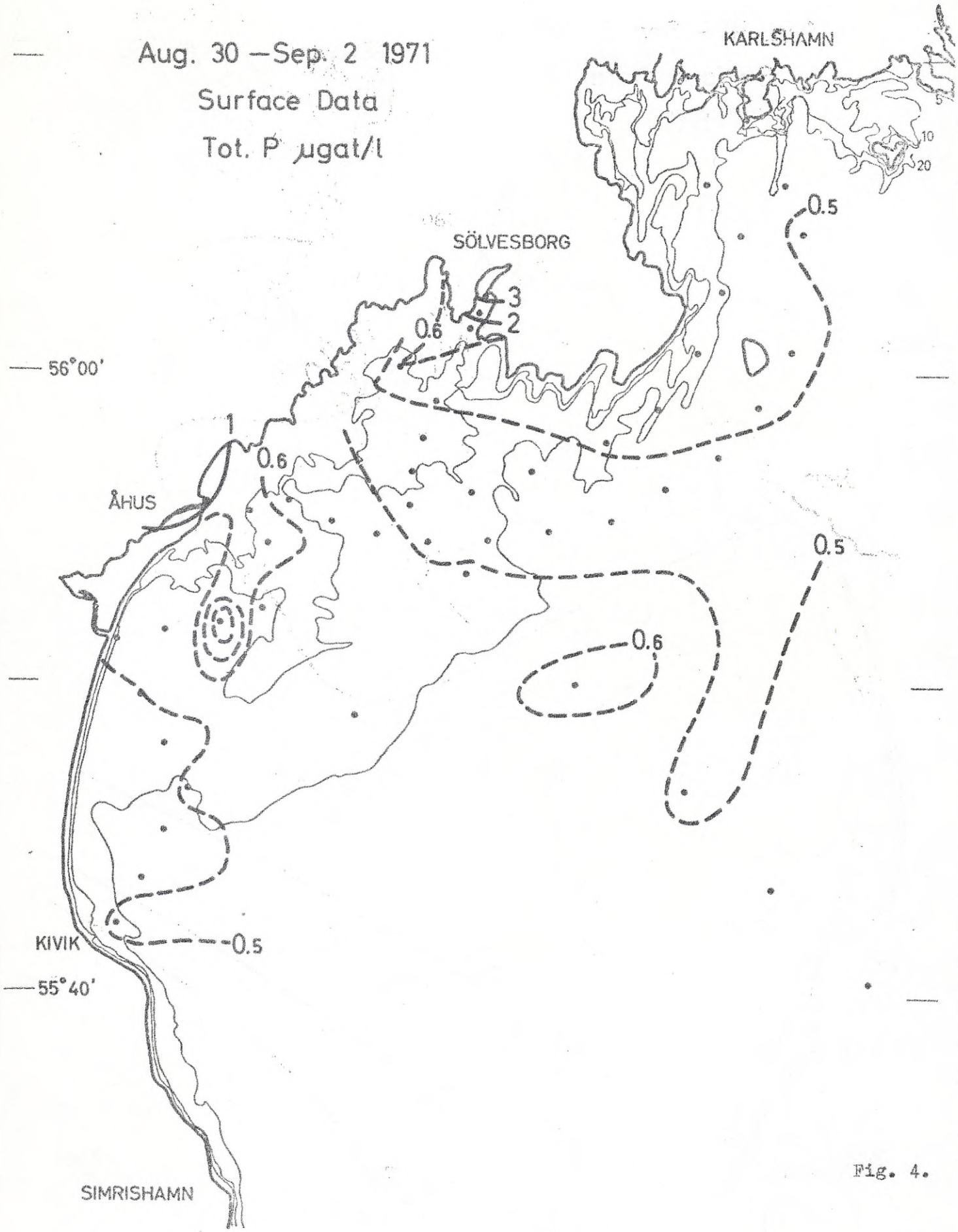


Fig. 4.

14° 20'

15° 00'

Aug. 30 – Sep. 2 1971

Surface Data

Phytoplankton Biomass $\mu^3 \times 10^6 / l$

KARLSHAMN

100

SÖLVESBORG

>500

56° 00'

>1600

ÅHUS

>200

<100

>200

KIVIK

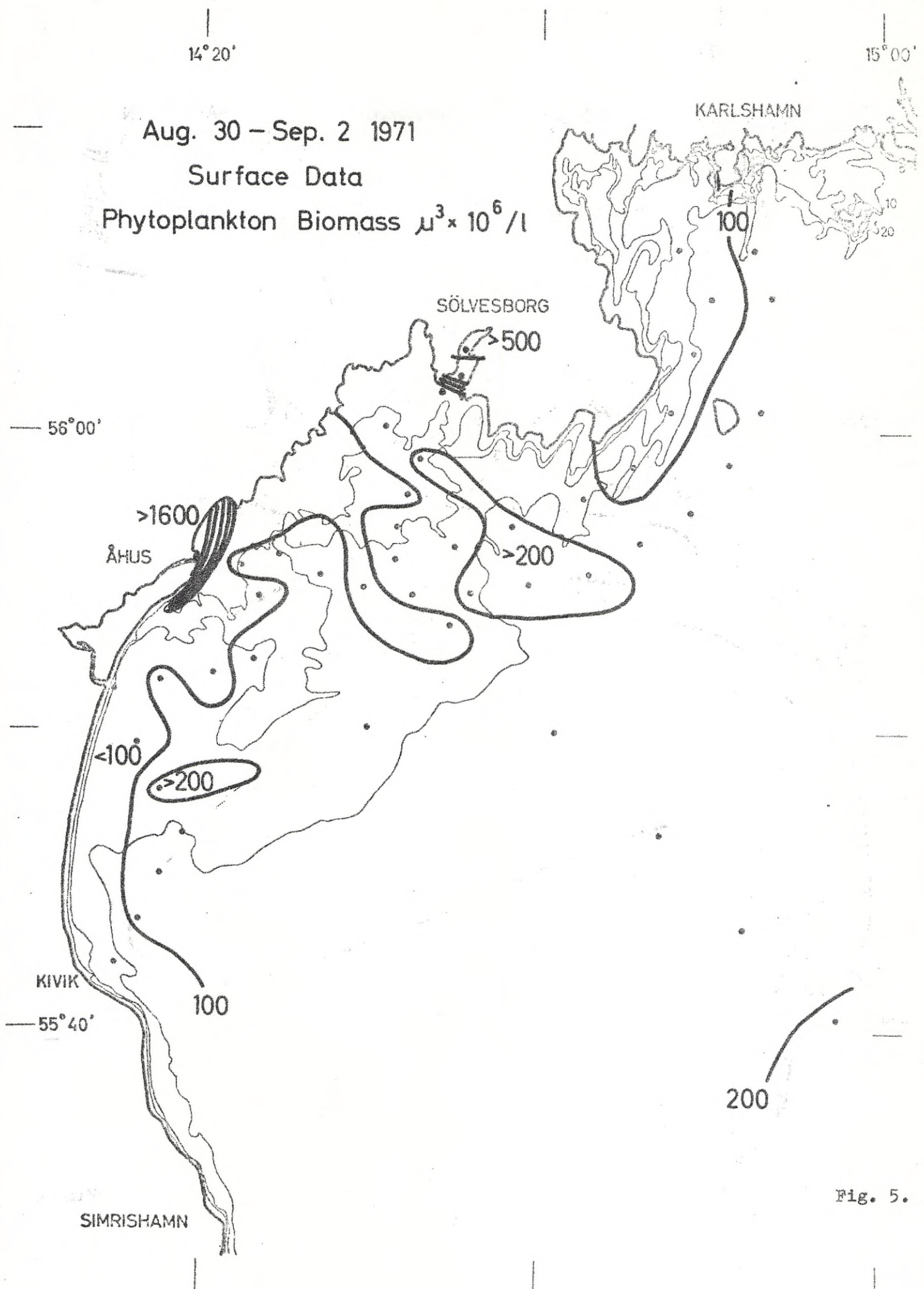
100

55° 40'

200

SIMRISHAMN

Fig. 5.



Aug. 30 – Sep. 2 1971
Surface Data
Yellow Substance

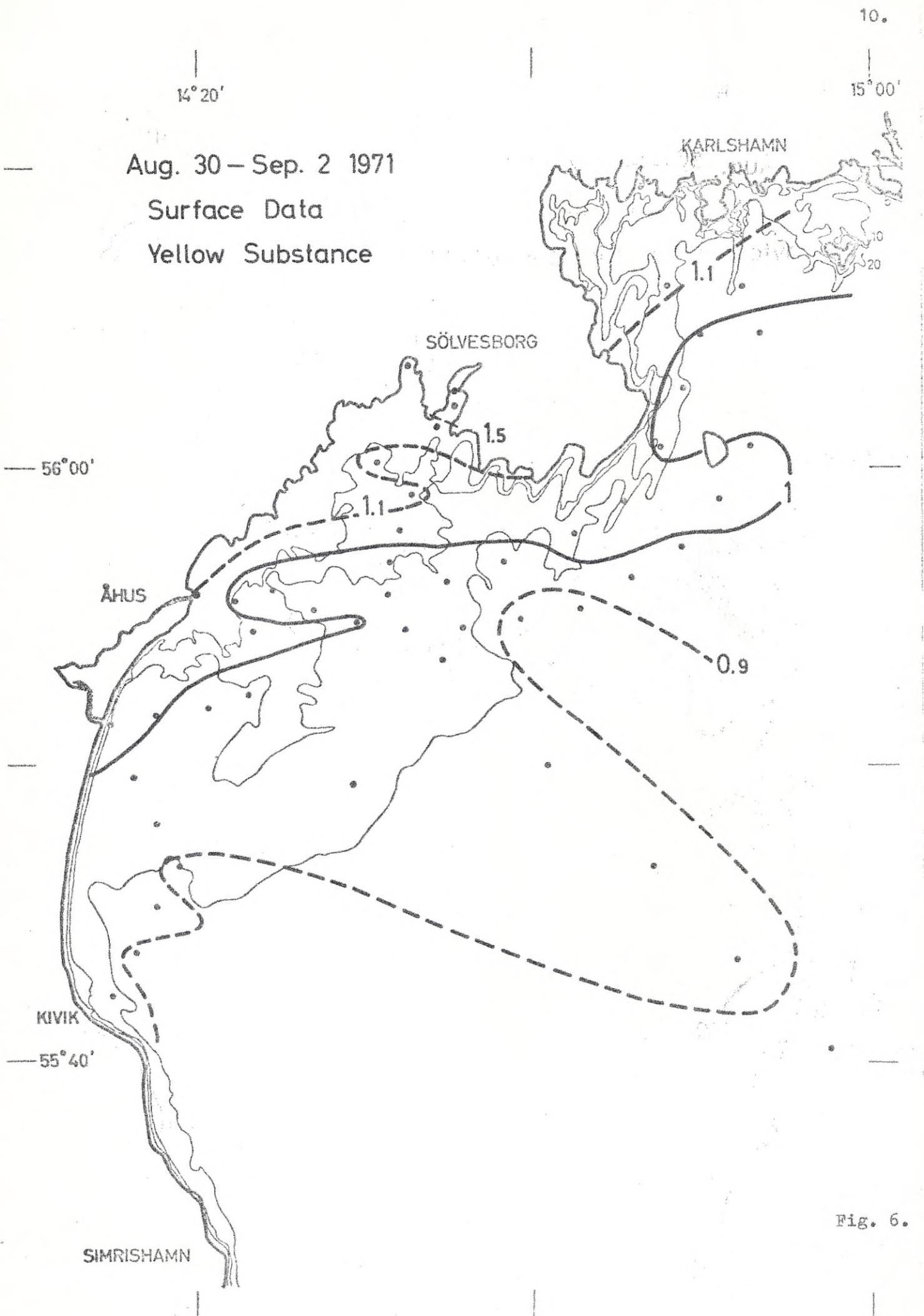


Fig. 6.

Table 1a.
Surface Data
Eystreselt 30/8 1971

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour	Yellow Substance
07 ⁰⁰	Hanö	55° 54.5'	14° 23.4'	14.0	7.486				0.63	22	5	1.15
07 ¹⁵		55° 52.3'	14° 23.0'	13.3	7.504	7.10	1.13	0.19	0.56	19	5	0.96
07 ³⁰		55° 51.9'	14° 20.7'	11.8	7.532	7.08	0.94	0.25	0.83	18	4	0.92
07 ⁴⁰		55° 51.7'	14° 17.7'	11.3	7.522	7.16	1.13	0.25	0.58	20	4	0.96
08 ¹⁵		55° 51.4'	14° 15.0'	8.1	7.610	7.27	1.24	0.31	0.59	20	4	1.01
08 ⁴⁵		55° 49.7'	14° 16.2'	12.9	7.556	8.15	2.04		0.50	20	4	0.96
09 ²⁰		55° 48.1'	14° 17.7'	15.0	7.551	6.96	0.73	0.12	0.46	20	5	0.92
09 ⁴⁰		55° 46.6'	14° 19.1'	14.8	7.535	7.06	0.86	0.13	0.54	21	4	0.87
10 ⁰⁰		55° 45.2'	14° 17.7'	14.7	7.546	6.98	0.63	0.19	0.49	19	4	0.92
10 ²⁰		55° 43.7'	14° 16.4'	14.4	7.558	6.94	0.64	0.12	0.47	19	4	0.87
10 ⁴⁵		55° 42.2'	14° 15.0'	12.3	7.548	7.18	0.87	0.19	0.53	21	4	0.96
12 ⁰⁰				14.5	7.510	6.98	0.76	0.18	0.55	20	4	0.96
12 ⁴⁰		55° 53.5'	14° 34.7'	15.2	7.476	6.95	0.63	0.22	0.55	20	4	0.92
13 ¹⁵		55° 54.8'	14° 29.5'	14.9	7.458	6.98	0.63	0.24	0.51	22	4	1.01
13 ³⁰		55° 55.3'	14° 27.0'	14.6	7.455	7.06	0.65	0.26	0.54	22	4	0.96
13 ⁴⁵		55° 56.0'	14° 24.6'	15.3	7.470	6.91	0.67	0.28	0.55	23	4	0.96
14 ⁰⁴		55° 55.5'	14° 22.3'	14.8	7.481	7.04	0.70	0.29	0.63	20	4	0.96

ve JP

Table 1b.

Surface Data

Eysterasalt 31/8 1971

GMT Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour Yellow Substance
10 ⁰⁵ Hand	55° 40'	14° 54.5'	16.3	7.801	6.85	0.66	0.08	0.59	17	5 0.87
11 ²⁵	55° 43.5'	14° 52.0'	16.1	7.605	6.79	0.55	0.18	0.56	15	5 0.92
12 ⁰⁵	55° 50.0'	14° 41.0'	15.7	7.562	6.90	0.93	0.13	0.48	15	5 0.96
13 ¹⁰	55° 46.5'	14° 47.2'	15.2	7.488	7.02	0.91	0	0.66	15	5 0.92

Table 1c.

Surface Data

Eysterasalt 1/9 1971

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour	Yellow Substance
07 ¹⁰	Henö	55° 55.8'	14° 31.3'	14.8	7.474	7.04	0.82	0.11	0.47	15	5	0.92
07 ²⁵		55° 56.9'	14° 31.5'	14.7	7.471	7.04	0.78	0.14	0.46	16	5	0.96
07 ⁴⁰		55° 58.0'	14° 32.0'	14.8	7.465	6.98	0.79	0.13	0.47	16	5	1.01
08 ¹⁵		56° 00.3'	14° 30.8'	15.3	7.477	6.85	0.80	0.20	0.60	16	5	1.05
08 ⁴⁵		55° 59.2'	14° 32.8'	15.0	7.476	6.96	0.81	0.08	0.51	17	5	1.10
09 ³⁵	54 Sölvesborg		harbour	16.7	7.383	6.08		1.55	3.21	23	17	1.79
09 ⁴⁵	57	"-	harbour entrance	16.4	7.371	6.49	1.54	0.96	2.09	21	11	1.70
10 ⁰⁰	58	Sölvesborg		16.0	7.381	6.72	0.89	0.21	0.65	20	8	1.51
10 ⁵⁰	33	55° 56.3'	14° 34.8'	15.1	7.483	6.98	0.63	0.13	0.43	16	5	0.96
11 ¹⁰	34	55° 56.8'	14° 38.3'	15.1	7.483	6.95	0.69	0.12	0.43	17	5	0.92
11 ³⁰	47	55° 55.2'	14° 42.8'	15.1	7.490	6.92	0.79	0.18	0.43	16	5	0.87
11 ⁴⁵	48	55° 54.9'	14° 39.3'	15.2	7.489	6.96	0.66	0.11	0.48	17	5	0.83
12 ⁰⁰	49	55° 54.7'	14° 35.8'	15.1	7.488	6.97	0.77	0.13		16	5	0.92
12 ²⁰	50	55° 54.6'	14° 32.3'	14.9	7.488	6.95	0.71	0.20	0.46	15	5	0.92
13 ²⁰	51	Åhus	harbour	14.5	7.460	7.85	1.95	0.35	1.19	18	7	1.10

Table 1d.

Surface Data

Eystrasalt 2/9 1971

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour	Yellow Substance
08 ²⁰	Hanö 35	55° 57.8'	14° 42.5'	14.2	7.485	7.00	0.68	0.18	0.51	15	5	---
08 ⁵⁰	36	55° 58.8'	14° 45.4'	12.2	7.528	6.95	0.83	0.28	0.54	17	5	1.01
09 ²⁰	37	56° 00.6'	14° 47.7'	9.3	7.586	7.01	1.19	0.19	0.56	16	5	0.96
09 ⁵⁰	38	56° 02.5'	14° 49.1'	7.7	7.616	7.42	1.43	0.32	0.57	19	5	0.92
10 ¹⁰	39	56° 04.4'	14° 50.0'	9.2	7.577	7.12	0.98	0.29	0.52	18	7	0.96
10 ⁴⁰	40B			11.3	7.514	7.65	1.62	0.30	0.51	15	8	1.19
11 ⁰⁰	41	56° 06.0'	14° 50.5'	10.4	7.552	7.21	1.13	0.28	0.56	20	8	1.01
11 ³⁵	42	56° 04.5'	14° 53.6'	13.2	7.502	7.06	0.78	0.22	0.45	20	8	0.96
12 ¹⁵	43	56° 00.7'	14° 53.0'	11.0	7.551	7.15	1.02	0.28	0.50	20	7	1.05
12 ³⁵	44	55° 59.0'	14° 51.1'	10.2	7.572	7.05	1.13	0.34	0.59	21	7	1.01
13 ⁰⁵	45	55° 57.3'	14° 48.9'	14.2	7.498	7.01	0.78	0.20	0.42	21	6	0.96
13 ²⁰	46	55° 56.3'	14° 45.9'	14.7	7.492	7.00	0.78	0.14	0.49	22	7	0.92

Table 2a.

Eysterasalt August 30, 1971

Bathymograph Temperature °C

Station	10	11	12	13	14	15	16	17	18	19	20	55	5	6	7	8	9
Hanö																	
Depth																	
0 m	14.0	13.3	11.8	11.3	8.1	12.9	15.0	14.8	14.7	14.4	12.3	14.5	15.2	14.9	14.6	15.3	14.8
1	14.0	13.3	11.8	11.3	8.1	12.9	15.0	14.8	14.7	14.4	12.3	14.5	15.2	14.9	14.6	15.3	14.8
2	14.0	13.3	11.8	11.3	8.1	12.9	15.0	14.8	14.7	14.4	12.2	14.5	15.2	14.9	14.6	15.3	14.8
3	14.0	13.3	11.8	11.3	8.1	12.9	15.0	14.8	14.7	14.4	11.9	14.5	15.2	14.9	14.6	15.3	14.8
4	14.0	12.5	11.8	11.2	8.1	12.8	15.0	14.8	14.7	14.4	11.6	14.5	15.2	14.9	14.6	15.3	14.8
5	14.0	11.7	11.6	11.2	8.1	12.7	14.9	14.8	14.6	14.3	10.7	14.5	15.2	14.9	14.6	15.3	14.8
6	14.0	11.3	10.6	11.1	8.1	12.7	14.7	14.8	14.6	14.3	10.2	14.4	15.1	14.9	14.6	15.3	14.8
7	14.0	10.8	9.8	10.5	8.0	12.6	13.0	14.8	14.5	14.2	9.3	14.3	15.1	14.9	14.6	15.2	14.7
8	14.0	10.4	9.6	9.3	7.9	12.5	11.0	14.8	14.3	13.0	8.2	14.2	15.0	14.8	14.5	15.2	14.7
9			9.6	9.1	7.9	10.5	9.2	14.7	12.0	7.8	7.4	14.1	15.0	14.6	14.3	15.1	14.7
10			9.6	9.1	7.9	7.5	8.6	13.5	8.5	6.7	7.3	14.1	15.0	13.5	13.8	15.0	14.7
11			9.6	9.1	7.9	7.4	8.3	10.0	7.3	6.6	6.9	14.0	14.7	11.3	13.2	14.7	14.6
12				9.1	8.0	7.3	7.8	9.3	7.2	6.4	6.8	13.8	10.5	11.3	13.2	14.6	14.6
13				9.1		7.3	7.5	7.8	6.8	6.2	6.7	12.5	8.2		13.1	14.6	14.6
14				9.1		7.3	7.2	7.8	6.4	5.8	6.7	11.0	8.0		13.1	14.6	14.6
15				9.1		7.3	6.8		6.2	5.7	6.7		7.8		13.1	14.6	14.6
16						7.3	6.5		6.2	5.5	6.7		7.6		13.1	14.6	14.6
17						7.3			6.2	5.4	6.6		7.5				
18						7.4			6.2	5.4	6.4						
19									6.2	5.4	6.4						
20									6.2	5.4	6.4						
21									6.2	5.5	6.4						

Table 2b.

Eysterasalt August 31 - September 1, 1971

Bathythermograph Temperature °C

Station	56	31	32	21	4	3	2	0	1	54	57	58	33	34	47	48	49
Depth	0 m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	16.3	16.1	15.7	15.2	14.8	14.7	14.8	15.3	15.0	16.7	16.4	16.0	15.1	15.1	15.1	15.1	15.1
	16.3	16.1	15.7	15.2	14.8	14.7	14.8	15.3	15.0	16.7	16.4	16.0	15.1	15.1	15.1	15.1	15.1
	16.3	16.1	15.7	15.2	14.8	14.7	14.8	15.3	15.0	16.7	16.4	16.0	15.1	15.1	15.1	15.1	15.1
	16.3	16.1	15.7	15.2	14.8	14.7	14.8	15.3	15.0	16.7	16.4	16.0	15.1	15.1	15.1	15.1	15.1
	16.3	16.1	15.7	15.2	14.8	14.7	14.8	15.3	15.0	16.7	16.4	16.0	15.1	15.1	15.1	15.1	15.1
	16.3	16.1	15.6	15.2	14.8	14.7	14.8	15.0	14.8	16.8	16.4	16.0	15.1	15.0	15.1	15.2	15.1
	16.3	16.1	15.6	15.2	14.7	14.7	14.8	14.5	14.7	16.8	16.4	16.0	15.1	15.0	15.1	15.2	15.1
	16.3	16.1	15.5	15.2	14.7	14.7	14.7	14.7	12.0	16.7	16.4	16.0	15.1	15.0	15.1	15.2	15.1
	16.3	16.1	15.5	15.2	14.6	14.7	14.7	10.3	10.3	16.7	16.4	16.0	15.1	15.0	15.1	15.2	15.0
	16.3	16.1	15.5	15.2	10.3	14.5	14.6	10.3	10.3	16.7	16.4	16.0	15.0	15.0	15.1	15.0	14.8
	16.3	16.1	15.3	15.1	9.8	12.2	14.2	14.2	14.8	16.7	16.4	16.0	14.8	14.8	15.0	14.8	13.0
	16.3	16.0	15.2	15.0	9.7	9.7			12.5	16.7	16.4	16.0	12.5	13.5	14.8	9.5	9.5
	16.3	16.0	15.2	14.8					9.7	16.7	16.4	16.0	9.7	10.0	14.7	8.7	8.7
	16.3	15.9	15.1	14.5					9.4	16.7	16.4	16.0	9.4	8.1	10.5	8.5	8.6
	16.3	15.7	15.1	13.5					9.2	16.7	16.4	16.0	9.2	7.9	7.7	8.3	8.6
	16.3	15.6	15.1	10.0					8.9	16.7	16.4	16.0	8.9	7.8	7.4	8.2	8.5
	16.4	15.5	15.0	9.7						16.4	16.4	16.0		7.7	7.2	8.2	8.4
	16.4	15.4	14.8	9.4						16.4	16.4	16.0		7.8	7.2	8.2	8.4
	16.4	14.8	12.5	9.3						16.4	16.4	16.0		7.8	7.2	8.2	8.4
	16.4	13.2	9.5	8.7						16.4	16.4	16.0		7.7	7.2	8.2	8.4
	16.4	12.8	7.7	7.6						16.4	16.4	16.0		7.7	7.2	8.2	8.4
	9.0	6.2	6.8							9.0	9.0	16.0		7.7	7.2	8.2	8.4
	7.0	6.7	6.5							7.0	7.0	16.0		7.7	7.2	8.2	8.4
	6.6	7.3	6.3							6.6	6.6	16.0		7.7	7.2	8.2	8.4
	7.0	9.2								7.0	7.0	16.0		7.7	7.2	8.2	8.4
	7.9									7.9	7.9	16.0		7.7	7.2	8.2	8.4
	8.3									8.3	8.3	16.0		7.7	7.2	8.2	8.4

Table 2c.

Eysterasalt September 1 - 2, 1971

Bathythermograph Temperature °C

Station	Hand	50	51	35	36	37	38	39	40B	41	42	43	44	45	46
Depth	0 m														
	1	14.9	14.5	14.2	12.2	9.3	7.7	9.2	11.3	10.4	13.2	11.0	10.2	14.2	14.7
	2	14.9	13.5	14.2	12.2	9.3	7.7	9.2	11.3	10.4	13.2	11.0	10.2	14.2	14.7
	3	14.9	13.1	14.2	12.2	9.3	7.7	9.2	11.3	10.4	13.2	11.0	10.2	14.2	14.7
	4	14.9	12.7	14.2	12.0	9.3	7.7	9.2	10.5	10.2	13.2	11.0	10.2	14.2	14.7
	5	14.9	12.5	14.2	11.7	9.3	7.7	9.2	10.3	10.0	13.2	11.0	10.2	14.2	14.7
	6	14.9		14.0	11.1	9.3	7.6	9.1	9.5	9.8	13.2	11.0	10.1	14.2	14.7
	7	14.9		13.5	10.7	9.3	7.5	9.0	8.5	9.5	13.2	11.0	10.1	14.2	14.6
	8	14.9		12.0	9.8	9.2	7.4	8.5	8.5	9.1	13.2	11.0	10.0	14.2	14.6
	9	14.7		9.5	8.7	9.1	7.3	7.6	8.4	8.5	13.1	11.0	10.0	14.2	14.5
	10	13.0		8.8	8.3	8.7	7.2	7.3	8.2	8.0	12.5	10.9	9.9	14.1	14.4
	11	9.5		8.6	7.9	8.0	7.1	6.8	8.0	7.9	11.0	10.9	9.7	13.9	13.0
	12	8.9		8.6	7.8	7.5	7.0	6.8	7.7	7.7	7.7	10.9	9.6		8.3
	13	8.9		8.5	7.7	7.3	6.7	6.8	7.5	7.7	7.3	10.7	9.1		7.8
	14				7.7	7.2	6.7	6.8	7.5	7.5	7.1	9.5	8.6		7.4
	15				7.4	7.1	6.6	6.8	7.5	7.4	7.0	9.4	8.3		7.1
	16				7.4		6.6	6.8	7.5	7.1	7.0	8.3	8.2		7.1
	17				7.4			6.8	7.5	7.1	6.8	7.7	8.1		7.1
	18							6.8	6.8	7.1	6.7	7.4	8.1		7.1
	19							6.8	6.8	7.1	6.4	7.3	8.0		7.1
	20							6.8	6.8	7.1	6.3	7.1	7.7		7.1
	25							6.8	6.8	7.1	6.3	7.0	7.4		7.1
	30							6.8	6.8	7.1	6.2	6.7	7.1		7.1
											6.2	6.7	7.1		
											6.2	6.7	7.1		

"Eystrasalt"
77 Sweden

Table 3.
1971

Station
Hanö 56

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0060	55	40	014	55	0	971		08	31	10	0055	01			23	14							2	82	0
Obs. time	Obs. depth	Temp.		Sal.	σ_t	Oxygen		BS7	PO ₄ -P	Tot.P	KMnO ₄	Sal. method	Extra info.												
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64			77	78										
10	0000	163	07801	0494	685				0.66	0.08	0.59	17	3												
	0010	1592	07813	0501	672				0.54	0.09	0.39	17													
	0020	1602	07808	0500	676				0.50	0.09	0.47	16													
	0030	0915	07752	0590	673				0.81	0.18	0.42	16													
	0040	0609	07954	0629	683				1.20	0.26	0.53	14													
	0050	0693	08879	0696	637				1.29	0.37	0.81	16													
	0055	0780	09854	0767	504				0.71	0.48	0.78	13													
									Colour Y.S. m ⁻¹																
	0000								5	0.87															
	0010								5	1.01															
	0020								5	0.96															
	0030								5	1.01															
	0040								4	0.92															
	0050								5	0.96															
	0055								5	0.92															
BT Slide Ey 49/874/71 N 55°40' E 14° 54.5' Secchi disc: 7.3 m																									
Observer: Svansson																									

"Eystrasalt"

Table 4.

Station

77 Sweden

1971

Hanö 21

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62	63
0063	55	47	014	47	0	971	08	31	13	0028	00		23	16								2	7	20
Obs. time	Obs. depth	Temp.	Sal.	σ_t	Oxygen		BS7	PO ₄ -P μgat/l	Tot.P μgat/l	KMnO ₄ mg/l	Sal. method	Extra info.												
					ml/l	%																		
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64													77 78
13	0000	152	07488	0489	702			0.91	0	0.66	15	3	3											
	0005	1491	07490	0494	702			0.68	0.11	0.43	15													
	0010	1492	07486	0494	695			0.57	0.14	0.43	16													
	0015	1444	07499	0502	695			0.63	0.14	0.53	16													
	0020	0919	07605	0580	679			0.86	0.24	0.51	16													
								Colour Y.S. m ⁻¹																
	0000							5		0.92														
	0005							5		1.01														
	0010							5		0.96														
	0015							5		0.96														
	0020							5		0.96														
BT Slide Ey 52/874/71 N 55° 46.5' E 14° 47.2' Secchi disc: 7.5 m																								
Observer: Svansson																								

"Eystrasalt"
77 Sweden

Table 6.
1971

Station
Hanö 54
Sölvesborg

Hydro Depth Observations (Code 0 3)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59				
0069							0	971	09	01	10	0008	00		23	14						2	71	0
Obs. time	Obs. depth	Temp.			Sal.	σ_t	Oxygen		BS7	PO ₄ -P $\mu\text{g}/\text{l}$	Tot.P $\mu\text{g}/\text{l}$	KMnO ₄ mg/l	Sci. method	Extra info.										
		26	27	ml/l			%	77							78									
10	0000	167	07383	0454	608				1.55	3.21	23	3	3											
	0003	1660	07385	0457	696			2.55	1.25	2.97	21													
	0000								Colour	Y.S.m ⁻¹														
	0003								17	1.79														
									15	1.79														
BT Slide 58/874/71 Secchi disc: 2.5 m Observer: Svansson																								

"Eystrasalt"

Table 7.

Station

77 Sweden

1971

Hanö 42

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56 57	58 59 60
0086	56	05	014	54	0	971	09	02	12	0035	00		27	16							1	4	20	
Obs. time	Obs. depth	Temp.	Sal.	σ_t	Oxygen		BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Sol. method	Extra info.												
					ml/l	%																		
12	0000	132	07502	0521	706		0.78	0.22	0.45	20		3	3											
	0005	1278	07502	0527	702		0.82	0.21	0.42	22														
	0010	1261	07504	0529	700		0.79	0.22	0.44	21														
	0015	0661	07637	0601	699		1.36	0.25	0.44	19														
	0020	0569	07676	0610	692		0.88	--	0.48	18														
	0025	0554	07686	0611	683		1.10	0.32	--	18														
	0030	0548	07698	0612	685		1.10	0.26	0.51	17														
	0000							Colour	Y.S.m ⁻¹															
	0005							8	0.96															
	0010							6	1.05															
	0015							7	1.01															
	0020							7	0.92															
	0025							5	0.92															
	0030							5	0.92															
								6	0.87															
BT Slide Ey 75/874/71 N 56° 04.5' E 14° 53.6' Secchi disc: 8.0 m																								
Observer: Svansson																								

Dominating phytoplankton species/l

Station	Unit	10	11	12	13	14	15	16	17	18	19	20
<u>CYANOPHYTA</u>												
Anabaena (straight)	m											
Anabaena (trailed)	c · 10 ³											
Aphanizomenon flos-aquae	m							+	+	+		
Dictyosphaerium sp.	kol. · 10 ³	2	1	1	+	13	1	+	+	+	1	3
Gomphosphaeria sp.	" "			+				1	+	1		+
Nodularia spumigena	m							0.7				
Narrow bluegreen threads	m	+	+	+		+						
<u>EUGLENOPHYTA</u>												
Euglenid	c · 10 ³					1						+
<u>PYRROPHYTA</u>												
Amphidinium sp.	" "	+			+							
Dinophysis spp.	" "											
Gonyaulax triacantha	" "				+							
Gymnodinium sp.	" "											
Gyrodinium sp.	" "	+					+		+	+		+
Peridinium triquetra	" "	+	+			1			+	+		
P. spp.	" "								+			
<u>CHRYSOPHYTA</u>												
Ebria tripartita	" "							+	+	+		
Asterionella formosa	" "									1		
Bacillaria paradoxa	" "											
Centric diatomée	" "		1	1	1	+	1	2	1	2	1	
Chaetoceros danicus	" "	+	+	+		+		1	1	2		1
Grammatophora sp.	" "											
Licmophora sp.	" "	+										
Nitschia spp.	" "											
Rhoicosphenia curvata	" "											
Skeletonema costatum	m											
Synedra spp.	c · 10 ³	1										
<u>CHLOROPHYTA</u>												
Ankistrodesmus spp.	" "			+								
Oocystis sp.	kol. · 10 ³	1			+	+	1	1	1	1	1	1
Pediastrum sp.	" "				+							
Scenedesmus sp.	" "				+							
Monader	c · 10 ³	326	367	292	449	156	129	449	388	408	320	354

Table 8b.

Station Hanö	55	5	6	7	8	9	56:0m	56:10m	56:20m	56:30m
Dominated phytoplankton species/l										
CYANOPHYTA										
Anabaena (straight)										
Anabaena (trailed)		8								
Aphanizomenon flos-aquae	0.8	+	+	+	+	1	2.9	1.4	0.8	
Dictyosphaerium sp.	kol. · 10 ³	+	+							
Gomphosphaeria sp.	" "									
Nodularia spumigena		+	+	+	+	+				
Narrow bluegreen threads		+	+	+	+	+				
EUGLENOPHYTA										
Euglenid	c · 10 ³	1	+		1	+	+			
PYRRROPHYTA										
Amphidinium sp.	" "									
Dinophysis spp.	" "					+				
Gonyaulax triacantha	" "									
Gymnodinium sp.	" "									
Gyrodinium sp.	" "	1			+					
Peridinium triquetra	" "		+	+		3				
P. spp.	" "			+						
CHRYSOPHYTA										
Ebria tripartita	" "							+		
Asterionella formosa	" "				+					
Bacillaria paradoxa	" "									
Centric diatomée	" "	1		+	+	1	1	1	1	
Chaetoceros danicus	" "		+							
Grammatophora sp.	" "			1	+	1				
Licmophora sp.	" "									
Nitschia spp.	" "			+						
Rhicosphenia curvata	" "				+					
Skeletonema costatum	m									
Synedra spp.	c · 10 ³		+			+				
CHLOROPHYTA										
Ankistrodesmus spp.	" "		+			+				
Oocystis sp.	kol. · 10 ³			+						
Pediastrum sp.	" "									
Scenedesmus sp.	" "									
Monader	c · 10 ³	456	129	524	469	598	394	367	483	184

Table 8d.

Station	Unit	4	3	2	0:0m	0:2.5m	0:5m	1	54:0m	54:2.5m
Dominated phytoplankton species/l										
Station Hanó	Unit	4	3	2	0:0m	0:2.5m	0:5m	1	54:0m	54:2.5m
<u>CYANOPHYTA</u>										
Anabaena (straight)	m									
Anabaena (trailed)	c · 10 ³									
Aphanizomenon flos-aquae	m	1.8								
Dictyosphaerium sp.	kol. · 10 ³		+	1	1	1	1	1		
Gomphosphaeria sp.	" "									
Noctularia spumigena	m									
Narrow bluegreen threads	m			+	+					0.7
<u>EUGLENOPHYTA</u>										
Euglenid	c · 10 ³									
<u>PYRROPHYTA</u>										
Amphidinium sp.	" "									
Dinophysis spp.	" "							+		
Gonyaulax triacantha	" "								+	
Gymnodinium sp.	" "									
Gyrodinium sp.	" "									
Peridinium triquetra	" "								7	54
P. spp.	" "								25	14
<u>CHRYSOPHYTA</u>										
Ebria tripartita	" "								1	7
Asterionella formosa	" "									
Bacillaria paradoxa	" "								1	
Centric diatomée	" "	1								
Chaetoceros danicus	" "			+						
Grammatophora sp.	" "			+						
Licmophora sp.	" "									
Nitschia spp.	" "									
Rhizosolenia curvata	" "									
Skeletonema costatum	m								2	34
Synedra spp.	c · 10 ³									5.4
<u>CHLOROPHYTA</u>										
Ankistrodesmus spp.	" "									
Oocystis sp.	kol. · 10 ³									
Pediastrum sp.	" "	+								
Scenedesmus sp.	" "									
Monader	c · 10 ³	517	503	306	490	333	102	809	1040	1618

Dominating phytoplankton species/l

Station	Hanó	57	58	33	34	47	48	49	50	51	35
<u>CYANOPHYTA</u>											
Anabaena (straight)			+								
Anabaena (trailed)											
Aphanizomenon flos-aquae				0.5	+	0.5	0.3	+			
Dictyosphaerium sp.			+			+	+				
Gomphosphaeria sp.						+					
Nodularia spumigena		+						+			
Narrow bluegreen threads		+									
<u>EUGLENOPHYTA</u>											
Euglenid			+						2		
<u>PYRRROPHYTA</u>											
Amphidinium sp.					+			+			
Dinophysis spp.		3	1							4	
Gonyaulax triacantha											
Gymnodinium sp.										15	
Gyrodinium sp.							+	+			1
Peridinium triquetra		9	4		1	+	+			870	+
P. spp.		7	+								
<u>CHRYSOPHYTA</u>											
Ebria tripartita		1			+						
Asterionella formosa											
Bacillaria paradoxa											
Centric diatomée		+	+	+		1	1				
Chaetoceros danicus											
Grammatophora sp.										+	
Licmophora sp.											
Nitzschia spp.		4	1					1			
Rhizicosphenia curvata											
Sceletonema costatum		+									
Synedra spp.											
<u>CHLOROPHYTA</u>											
Ankistrodesmus spp.			+							1	
Oocystis sp.							+	1			1
Pediastrum sp.											
Scenedesmus sp.										+	
Monader		1176	544	408	850	762	870	612	734	1421	605

Table 8f.

Station Hanó	36	37	38	39	40B	41	42:0m	42:5m	42:10m
Dominated phytoplankton species/l									
<u>CYANOPHYTA</u>									
Anabaena (straight)							4		
Anabaena (trailed)							+		
Aphanizomenon flos-aquae	+						+		+
Dictyosphaerium sp.	+		2	2	1	6	+	2	1
Gomphosphaeria sp.	+		1	1	+	1	+	+	
Nodularia spumigena									
Narrow bluegreen threads	+		+	+	+	+			+
<u>EUGLENOPHYTA</u>									
Euglenid									
<u>PYRROPHYTA</u>									
Amphidinium sp.		+	+						
Dinophysis spp.									
Gonyaulax triacantha									+
Gymnodinium sp.									
Gyrodinium sp.									
Peridinium triquetra								+	
P. spp.									
<u>CHRYSOPHYTA</u>									
Ebria tripartita								+	
Asterionella formosa								+	
Bacillaria paradoxa									
Centric diatomée									
Chaetoceros danicus							+		
Grammatophora sp.							+		
Licmophora sp.	+			+		+	+		
Nitschia spp.				+					
Rhoicosphenia curvata									
Sceletonema costatum									
Synedra spp.									
<u>CHLOROPHYTA</u>									
Ankistrodesmus spp.									
Oocystis sp.									
Pediastrum sp.									
Scenedesmus sp.									
Monader									
	326	204	272	313	480	626	435	510	483

Dominating phytoplankton species/l

Station Hanó	42:15m	42:20m	42:25m	42:30m	43	44	45	46
<u>CYANOPHYTA</u>								
Anabaena (straight)					+			
Anabaena (trailed)								
Aphanizomenon flos-aquae		+					1.2	+
Dictyosphaerium sp.	2	1	1	1	3	1	1	+
Gomphosphaeria sp.								
Nodularia spumigena		+			+			
Narrow bluegreen threads	+		+					
<u>EUGLENOPHYTA</u>								
Euglenid								
<u>PYRROPHYTA</u>								
Amphidinium sp.					+			
Dinophysis spp.								
Gonyaulax triacantha								
Gymnodinium sp.		+						
Gyrodinium sp.						+	+	+
Peridinium triquetra								
P. spp.								
<u>CHRYSOPHYTA</u>								
Ebria tripartita								
Asterionella formosa					+		+	+
Bacillaria paradoxa								
Centric diatomée								
Chaetoceros danicus		+		+	+		1	1
Grammatophora sp.								
Licmophora sp.								
Nitschia spp.								
Rhoicosphenia curvata								
Sceletonema costatum								
Synedra spp.								
<u>CHLOROPHYTA</u>								
Ankistrodesmus spp.								
Cocystis sp.							1	+
Pediastrum sp.								
Scenedesmus sp.								+
Monader								
	224	184	272	95	626	496	592	517

Table 10a.

Dominating Zooplankton

Species - number of specimens

Bosmina coregoni-maritima
 Podon spp.
 Evadna nordmanni
 Acartia longiremis, Acartia bifilosa
 Centropages hamatus
 Temora longicornis
 Lamellibranehiata

Station	Date	Bosmina coregoni-maritima	Podon spp.	Evadna nordmanni	Acartia longiremis, Acartia bifilosa	Centropages hamatus	Temora longicornis	Lamellibranehiata
56	31/8 -71	2075	500	3700	1575	650	825	0
31		2150	275	950	1400	775	850	0
32		1800	100	225	425	200	275	0
21		350	25	175	575	75	175	0
14	30/8 -71	500	25	100	2750	225	9475	0
15		4000	325	3350	1337	650	2475	50
16		1050	125	725	375	100	900	0
17		2700	150	750	375	175	1400	0
18		1550	100	400	225	100	1525	0
19		975	25	1100	200	100	300	25
20		750	25	1150	400	275	550	0
55		0	0	25	0	0	0	0
5		875	50	600	875	450	2150	0
6		475	0	425	475	425	825	0
7		125	25	100	250	300	900	0
8		150	0	50	325	200	575	0
9		275	25	225	1725	925	1475	0
4	1/9 -71	100	0	25	175	50	250	0
3		350	0	1075	650	225	1175	0
2		125	0	975	225	500	1275	0
0		0	0	175	375	225	725	0
1		50	0	275	325	125	625	0
54		0	0	50	150	25	100	0
57		25	0	0	125	0	0	0
58		0	0	0	375	50	25	0
33		1625	0	800	2350	925	1175	0
34		2000	25	675	1075	550	1925	0

Number of Collections

Number of Collections

Number of Collections

Table 10b.

Dominating Zooplankton

Species -- number of specimens

Station Hand	Date	Bosmina core- goni maritima	Podon spp.	Evadna nord- manni	Acartia longi- remis, Acartia bifilosa	Centropages hamatus	Tempora longi- cornis	Lamellibra- nehiata
47	1/9 -71	1575	50	550	1875	200	325	0
48		2325	150	1375	1125	275	175	0
49		1850	175	875	1375	400	325	0
50		750	25	800	1575	450	350	0
51		575	50	50	2775	250	600	0
35	2/9 -71	50	50	625	600	300	1275	0
36		0	50	150	825	225	475	0
37		100	50	100	5050	400	675	0
38		0	25	125	3800	375	2950	0
39		0	0	25	1250	150	325	0
40B		225	100	225	3600	400	3000	0
41		0	50	275	1975	50	675	0
42		175	75	500	2050	150	300	25
43		50	0	550	1175	25	25	0
44		100	0	275	1475	300	250	0
45		75	0	75	975	300	1600	0
46		1650	0	550	775	125	350	0

14° 20'

15° 00'

March 12-15 1973
Surface Data
S‰

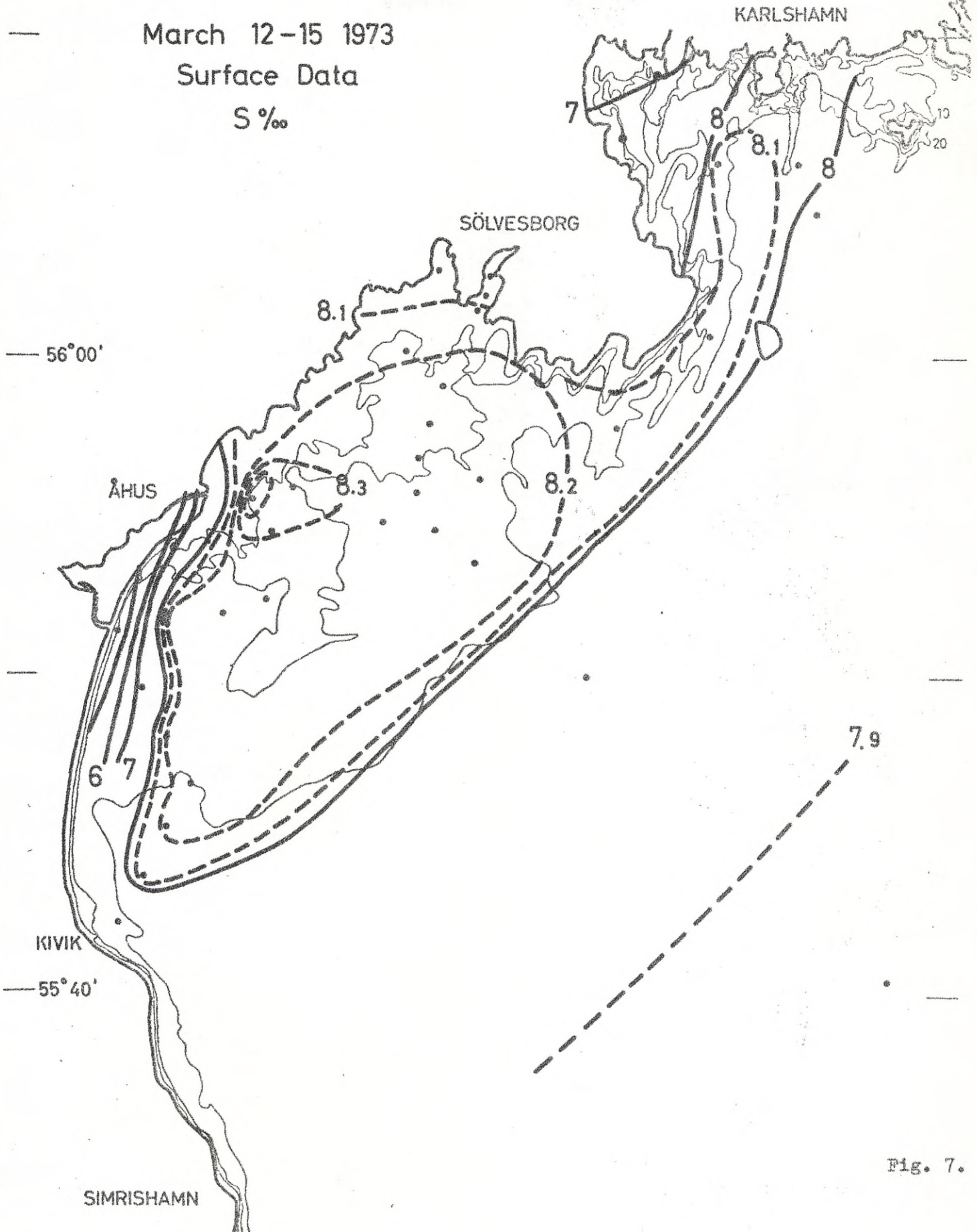


Fig. 7.

14° 20'

15° 00'

March 12-15 1973

Surface Data

Tot. P $\mu\text{g}/\text{l}$

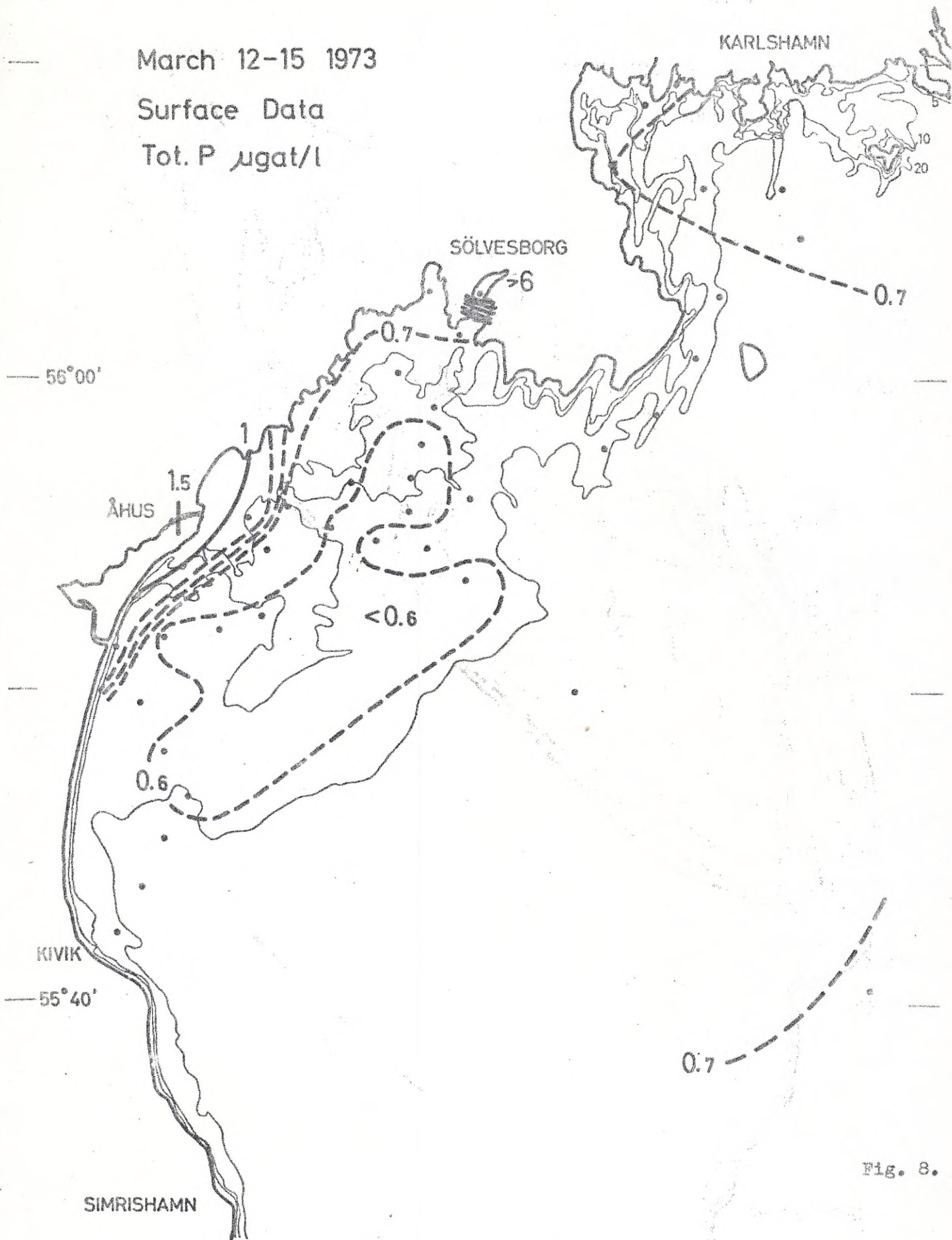


Fig. 8.

14° 20'

15° 00'

March 12-15 1973

RG 1

at 2 m depth

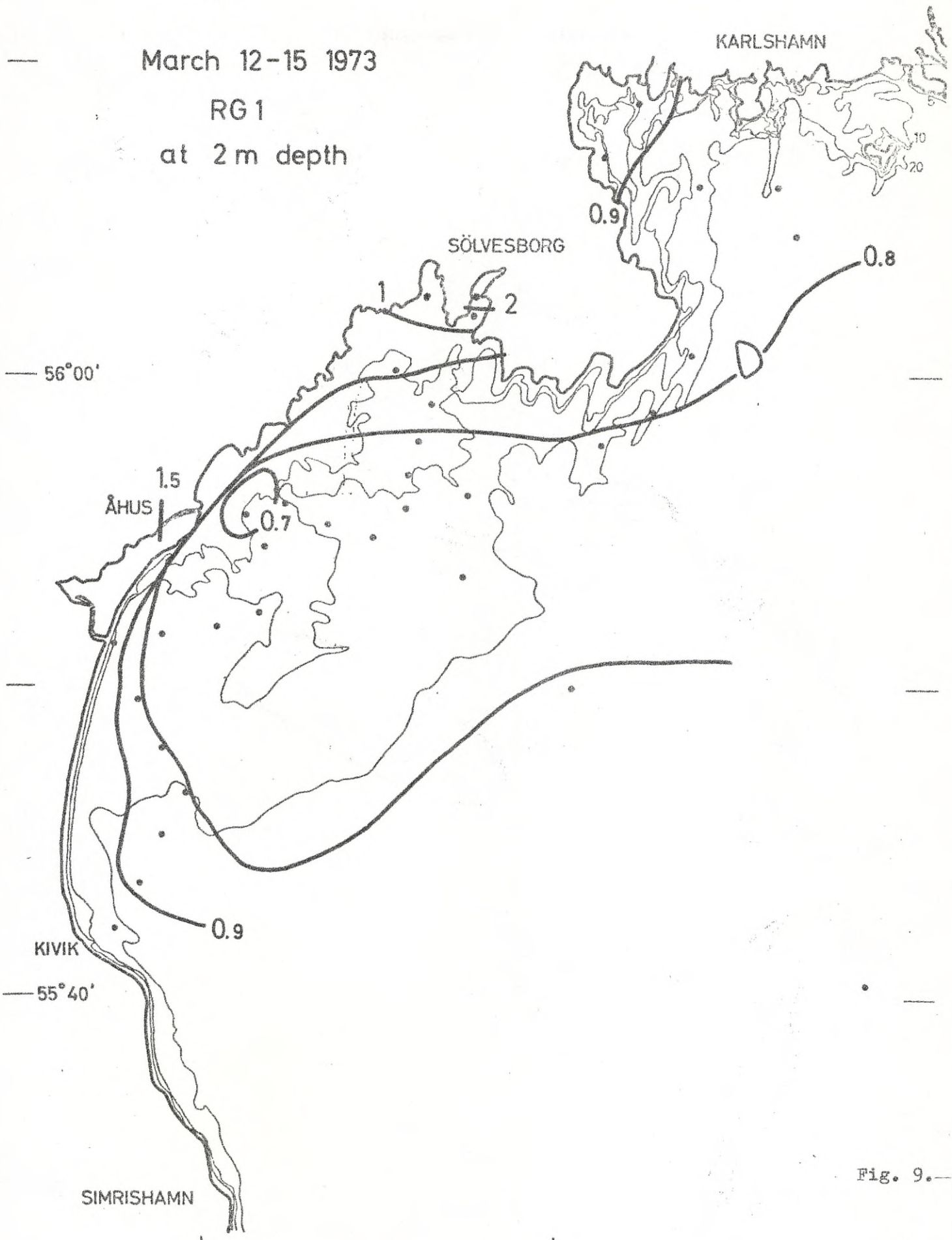


Fig. 9.—

14° 20'

15° 00'

March 12-15 1973
Surface Data
Yellow Substance

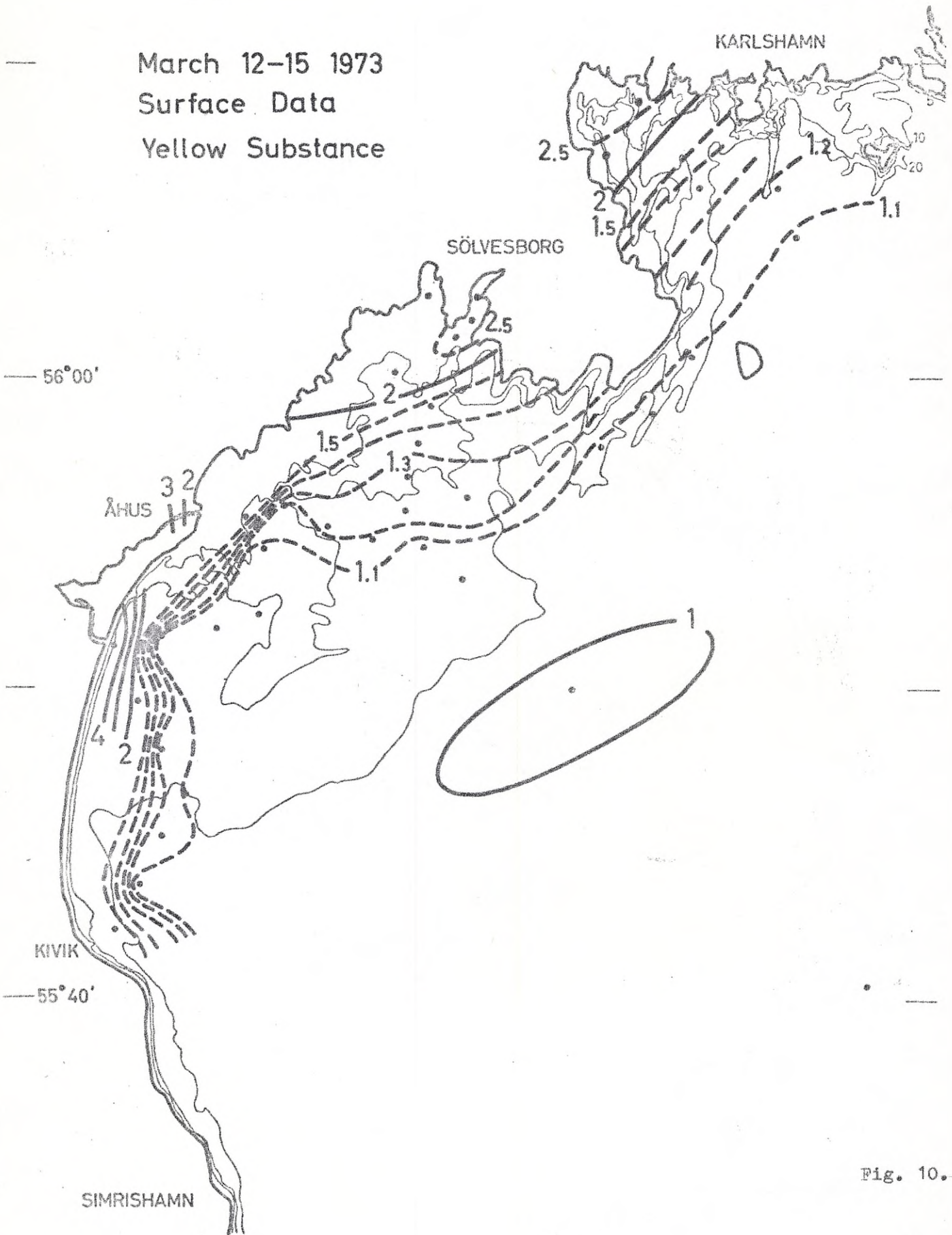


Fig. 10.

Table 1a.
Surface Data
Eysterasalt 12/3 1973

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour Yellow Substance
07 ²⁵	Hanö	55° 55.5'	14° 22.3'	2.9	8.413	9.33	2.98	0.52	0.92	11	1.70
07 ⁵⁰		55° 56.0'	14° 24.6'	2.8	8.332	9.41	1.68	0.28	0.73	18	1.19
08 ¹⁵		55° 55.3'	14° 27.0'	2.9	8.299	9.26	1.37	0.35	0.58	14	1.24
08 ³⁰		55° 54.8'	14° 29.5'	3.0	8.272	9.25	1.33	0.26	0.64	17	1.19
09 ¹⁰		55° 53.5'	14° 34.7'	3.2	8.271	9.58	1.69	0.37	0.52	15	1.11
10 ¹⁵		55° 55.8'	14° 31.3'	3.2	8.267	9.52	1.52	0.19	0.54	17	1.28
10 ³⁵		55° 56.9'	14° 31.5'	3.1	8.264	9.11	1.24	0.37	0.54	18	1.28
10 ⁵⁵		55° 58.0'	14° 32.0'	3.0	8.264	9.12	1.14	0.29	0.53	16	1.38
11 ³⁰		56° 00.3'	14° 30.8'	2.9	8.128	9.12	1.76	0.16	0.60	23	2.26
12 ¹⁵	Saxaviken			3.1	8.006	7.73	0.15	0.22	0.68	24	2.43
13 ¹⁰		56° 00.3'	14° 30.8'	3.0	8.242	9.05	1.04	0.39	0.61	19	1.47
13 ³⁵		56° 01.3'	14° 34.8'	3.0	8.105	8.60	1.18	0.21	0.72	26	2.62

Table 1b.
Surface Data
Eystrasalt 13/3 1973

GMP	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour	Yellow Substance
09 ⁰⁰	Henö	56° 02.7'	14° 35.2'	3.3	7.820	9.25	4.70	2.37	6.20	28	31	2.56
09 ¹⁵		56° 01.9'	14° 35.0'	3.0	8.010	9.12	1.54	0.24	1.21	23	22	2.52
10 ⁵⁰		55° 54.5'	14° 23.4'	3.0	8.304	9.27	1.00	0.38	0.60	19	7	1.11
11 ²⁰		55° 52.3'	14° 23.0'	3.2	8.268	9.36	1.61	0.39	0.57	22	8	1.11
11 ⁴⁰		55° 51.9'	14° 20.7'	3.2	8.264	9.21	1.57	0.37	0.56	16	8	1.11
12 ⁰⁰		55° 51.7'	14° 17.7'	3.1	8.273	9.25	1.86	0.41	0.51	16	5	1.11
12 ¹⁵		55° 51.4'	14° 15.0'	3.1	4.910	9.26	1.89	0.42	0.91	29	25	4.47
12 ⁴⁵		55° 49.7'	14° 16.2'	3.2	7.878	9.26	1.41	0.41	0.67	18	7	1.70
13 ⁰⁵		55° 48.1'	14° 17.7'	3.2	8.219	9.20	1.30	0.43	0.59	18	6	1.15
13 ³⁰		55° 46.6'	14° 19.1'	3.3	8.246	9.17	1.67	0.41	0.56	16	5	1.06
14 ⁰⁰		55° 45.2'	14° 17.7'	3.3	8.210	9.21	0.80	0.42	0.61	16	5	1.15
14 ¹⁵		55° 43.7'	14° 16.4'	3.4	8.161	9.16	1.44	0.40	0.67	16	5	1.11
14 ⁴⁵		55° 42.2'	14° 15.0'	3.7	7.734	9.04	1.03	0.41	0.64	18	7	1.56

Table 1c.

Surface Data

Eystresalt 14/3 1973

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour Yellow Substance
10 ⁰⁰	Hanö 30	55° 40.5'	14° 57.5'	3.5	7.892	9.15	1.21	0.41	0.71	11	5 1.11
13 ⁴⁵	21	55° 50.0'	14° 41.0'	3.6	7.915	9.09	1.32	0.52	0.68	13	5 0.92
14 ⁵⁰	50	55° 54.6'	14° 32.3'	3.9	8.275	9.06	1.47	0.37	0.61	15	5 1.01
15 ³⁰	52	55° 56.6'	14° 27.9'	3.5	8.250	6.71		0.32	0.69	14	6 1.47
16 ¹⁵	51	55° 55.7'	14° 19.9'	3.8	7.724	9.13	1.88	0.68	1.18	16	10 1.51

Eystresalt 15/3

GMT	Station	Lat.	Long.	Temp. °C	Sal. ‰	O ₂ ml/l	BS7	PO ₄ -P µgat/l	Tot.P µgat/l	KMnO ₄ mg/l	Colour Yellow Substance
06 ³⁵	Åhus Harbour			3.7	5.464	8.44	1.60	0.86	1.52	24	22 3.50
07 ⁴⁵	33	55° 56.3'	14° 34.8'	3.2	8.222	9.11	1.48	0.39	0.66	15	5 1.28
08 ³⁵	35	55° 57.8'	14° 42.5'	3.3	8.167	9.20	1.60	0.37	0.66	13	5 1.11
09 ¹⁰	37	56° 00.6'	14° 47.7'	3.2	8.139	9.29	1.78	0.43	0.69	11	5 1.11
10 ¹⁵	40B	56° 06.9'	14° 48.4'	3.5	8.115	9.21	1.64	0.50	0.74	15	10 1.33
10 ⁵⁰	40C	56° 06.6'	14° 43.0'	3.6	7.285	9.10	1.81	0.34	0.70	17	10 2.02
11 ⁰⁵	40D	56° 08.5'	14° 44.6'	4.2	6.782	9.19	1.75	0.30	0.66	20	10 2.67
11 ⁵⁰	41	56° 06.0'	14° 50.5'	3.4	8.028	9.32	1.91	0.49	0.72	15	5 1.15
12 ³⁰	42	56° 04.5'	14° 53.6'	3.4	7.951	9.25	1.88	0.49	0.78	15	5 1.11

"Eystrasalt"
77 Sweden

Table 2.
1973
Hydro Depth Observations (Code 03)

Station
Hanö 0

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57
0027	56	00	014	31	0	973		03	12	12		00		07	12								2	8	20
Obs. time	Obs. depth	Temp.	Sal.	σ_t			Oxygen		BS7	PO ₄ -P	Tot.P	KMnO ₄	Sol. method		Extra info.										
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42	43 44 45	58	59 60	61 62 63 64		µgat/l	µgat/l	mg/l													
12	0000	0297	08108	0654			871			1.70	0.17	0.61	23	3	3										
	0003	0292	08106	0654			872			1.57	0.13	0.68	22												
	0005	0294	08106	0654			871			1.71	0.15	0.66	23												
	0000												Colour	13											
	0003												Colour	12											
	0005												Colour	12											
BT Slide Ey 30/11732/73 N 56° 00.3' E 14° 30.8' Secchi disc: 4.5 m																									
Observer: Svansson																									

Table 5.

"Eystrasalt"

1973

Station

77 Sweden

Hanö 40B

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	''	°	'	''	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb	55	56	57				
0053	56	07	014	48	0	973	03	15	10	0020	00			07	02								1	1	20
Obs. time	Obs. depth	Temp.	Sal.	σ_t	Oxygen		BS7	PO ₄ -P	Tot.P	KMnO ₄	Sal. method	Extra info.													
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64		$\mu\text{gat/l}$	$\mu\text{gat/l}$	mg/l			77	78											
10	0000	035	08115	0652	921		164	0.50	0.74	15															
	0009		08138		888		209	0.53	0.93	19															
	0020	032	08213	0660	903			0.41	0.81	16															
	0000							Colour		10															
	0009							Colour		12															
	0020							Colour		7															
BT Slide Ey 55/11732/73 N 56° 06.9' E 14° 48.4' Secchi disc: 10 m																									
Observer: Svansson																									

Table 6.

"Eystrasalt"
77 Sweden

1973

Station
Hanö 54

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0031	56	03	014	35	0	972	03	13	09	0065	00		32	02								
Obs. time	Obs. depth	Temp.	Sal.	σ_t	Oxygen		BS7	PO ₄ -P	Tot.P	KMnO ₄	Sol. method	Extra info.										
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64		$\mu\text{gat/l}$	$\mu\text{gat/l}$	mg/l												
09	0000	033	07820	0630	925		470	2.37	6.20	28	3	3										
	0003	0297	07636	0616	917		211	0.67	2.38	25												
	0000							Colour														
	000							31														
								20														
BT Slide Ey 33/11732/73 Secchi disc: 1.0 m Observer: Svansson																						
N 56° 02.7' E 14° 35.2'																						

Table 7a.

Attenuation $RG1\ m^{-1}$ March 12, 1973

Depth m	Station 1	Saxa- viken	0	2	3	4	5	6	7	8	9
0	0.81	1.06	0.98	0.77	0.79	0.77	0.75	0.73	0.71	0.71	0.66
2	0.80	1.05	0.98	0.77	0.78	0.77	0.75	0.73	0.71	0.71	0.66
4	0.80	1.03	0.98	0.77	0.77	0.76	0.75	0.73	0.71	0.70	0.66
6	0.79	1.00	0.98	0.77	0.76	0.75	0.75	0.72	0.71	0.70	0.65
8	0.79		0.98	0.76	0.76	0.75	0.75	0.72	0.71	0.70	
10	0.78			0.76	0.75	0.75	0.75	0.72	0.70	0.70	
12	0.78			0.76		0.75	0.75	0.72	0.70		
14						0.73	0.75	0.71	0.70		
15									0.70		

Table 7b.

Attenuation $RG1\ m^{-1}$ March 13, 1973

Depth m	Station	54	57	10	11	12	13	14	15	16	17	18	19	20
0		2.41	1.73	0.70	0.75	0.78	0.78	1.06	0.86	0.80	0.80	0.84	0.86	0.98
1		2.46	1.67	0.70				1.00	0.85					
2		2.46	1.67	0.70	0.75	0.78	0.78	0.92	0.80	0.80	0.80	0.84	0.85	0.97
3		2.37	1.61	0.70				0.88	0.80					
4		2.34	1.57	0.70	0.75	0.77	0.77	0.85	0.79	0.79	0.79	0.83	0.85	0.94
5			1.63	0.70				0.83						
6			1.39	0.70	0.74	0.77	0.77	0.82	0.79	0.78	0.79	0.83	0.85	0.91
7			1.36	0.70										
8				0.70	0.73	0.76	0.77	0.81	0.78	0.78	0.78	0.82	0.84	0.89
9				0.70										
10				0.69	0.72	0.75	0.76	0.80	0.77	0.77	0.78	0.81	0.84	0.89
12					0.72	0.74	0.76	0.80	0.77	0.77	0.78	0.80	0.84	0.89
14					0.71				0.76	0.76	0.78	0.81	0.83	0.87
15										0.76				
16									0.76			0.81	0.82	0.84
18												0.80	0.82	0.83
20												0.80	0.82	0.82
22													0.81	0.81

Table 7c.

Attenuation $RG1\ m^{-1}$ March 14-15, 1973

Stn.	30	21	50	52	51	Inner harbour	33	35	37	40B	40C	40D	41	42
Depth	0	0	0	0	0	1.61	1.30	0.76	0.81	0.83	0.91	0.93	0.81	0.80
1	0.79	0.80	0.88	0.88	0.99	1.19	0.79	0.78	0.82	0.83	0.92	0.93	0.81	0.80
2	0.79	0.80	0.87	0.88	0.98	1.18	0.77	0.78	0.82	0.83	0.92	0.93	0.81	0.80
3	0.79	0.80	0.86	0.87	0.98	1.16	0.77	0.79	0.82	0.85	0.93	0.93	0.83	0.81
4	0.78	0.81	0.85	0.87	0.95	1.18	0.77	0.80	0.82	0.86	0.93	0.92	0.84	0.82
5	0.78	0.80	0.85	0.86	0.93		0.77	0.79	0.82	0.92	0.91	0.90	0.83	0.83
6	0.77	0.81	0.84	0.83	1.14		0.76	0.78	0.82	0.98	0.90	0.89	0.83	0.83
7	0.77	0.81	0.84	0.83			0.76	0.76	0.83	0.96	0.88	0.83	0.83	0.83
8	0.74	0.79	0.83	0.83			0.76	0.76	0.82	0.87	0.88	0.82	0.82	0.83
9							0.76	0.76	0.80	0.88	0.82	0.82	0.82	0.83
10							0.76	0.76	0.80	0.85	0.82	0.82	0.82	0.83
11							0.76	0.76	0.80	0.87	0.82	0.82	0.82	0.83
12							0.76	0.76	0.80	0.88	0.82	0.82	0.82	0.83
13							0.76	0.76	0.80	0.86	0.82	0.82	0.82	0.83
14							0.76	0.76	0.80	0.82	0.82	0.82	0.82	0.83
15							0.76	0.76	0.80	0.87	0.82	0.82	0.82	0.83
16							0.76	0.76	0.80	0.88	0.82	0.82	0.82	0.83
17							0.76	0.76	0.80	0.85	0.82	0.82	0.82	0.83
18							0.76	0.76	0.80	0.87	0.82	0.82	0.82	0.83
20	0.73	0.78												
22														

Dominating Zooplankton

Hanö Bight 1973

Table 8.

Date	Station No	Aurelia aurita	Bosmina coregoni	Podon spp.	Eradne nordmanni	Acartia spp.	Centropages hamatus	Temora longicornis	Pseudocalanus m. elongatus	Nauplius larvae	Gastropoda	Mytilus edulis	Prittillaria	Additional
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	No specimens because of clogging caused by phytoplankton
	1	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	1	3	1	3	2	0	0	0	
	3	0	0	0	0	2	2	1	2	2	0	0	0	
	4	0	0	0	0	2	3	1	2	2	0	0	0	
	5	0	0	0	0	2	3	2	3	2	0	0	0	
	6	0	0	0	0	3	3	1	3	2	0	0	0	
	7	0	0	0	0	1	2	1	3	2	0	0	0	
	8	0	0	0	0	1	1	1	4	2	0	0	0	
	9	0	0	0	0	1	2	2	3	2	0	0	0	
	10	0	0	0	0	1	2	1	4	2	0	0	0	
13/3		0	0	0	0	3	3	1	3	2	0	0	0	
"	11	0	0	0	0	0	0	0	0	0	0	0	0	
"	14	0	0	0	0	0	0	0	0	0	0	0	0	← No specimens because of clogging caused by organic matter
"	17	0	0	0	0	2	3	1	3	2	0	0	0	
"	20	0	0	0	0	1	4	1	1	2	0	0	0	
14/3	21	0	0	0	0	2	2	2	2	2	0	0	0	
"	30	0	0	0	0	2	3	2	1	2	0	0	0	
"	"	0	0	0	0	2	2	2	2	3	0	0	1	50 - 0 m
15/3	37	0	0	0	0	2	3	0	2	2	0	0	0	
"	40 B	0	0	0	0	2	2	2	2	2	0	0	0	
"	42	0	0	0	0	1	3	1	1	2	0	0	0	
13/3	54	0	0	0	0	0	0	0	0	0	0	0	0	4 - 0 m Sample disturbed by unidentified organic matter
12/3	Saxaviken	0	0	0	0	0	0	0	0	0	0	0	0	

