



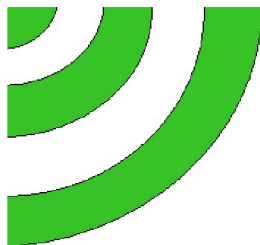
# STRAUMMÅLING

NS 9425-1

## LOKALITET REKEVIKI

Lindås kommune





## Resipientanalyse

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<i>Lokalitet</i> <b>Rekeviki</b>	<i>Dato, rapport</i> 06 / 01 – 2011
<i>Kommune</i> Lindås kommune	<i>Dato, felt</i> 09 / 11 – 2010 15 / 12 – 2010
<i>Oppdragsgjevar</i> Blom Fiskeoppdrett AS	<i>Rapport nr.</i> 511 – 2010
<i>Oppdragsart</i> Straummåling	<i>Rapportsider</i> 14
<i>Personell feltundersøking</i> Frode Berge-Haveland, Resipientanalyse Jakob Blom, Blom Fiskeoppdrett AS Arne Marøy, Blom Fiskeoppdrett AS	Gjennomsnittleg og høgste målte vasstraum:
<i>Samandrag</i>  4 stk SD6000 straummålar frå Sensordata AS blei sett ut på 5, 15, 50 og 100 meters djup. Straummålaren blei programmert til å måle straum kvart 10 minutt.  Den gjennomsnittlige vassutskifting straumen var svak til middels sterk. Den gjennomsnittlige spreieing straumen var sterk. Den gjennomsnittlige botn straumen var middels sterk. Den sterkaste straumen blei målt ved 50 meters djup og var 21,4 cm/s. Hovudstraumen er dominert av ein nordvest og søraust gåande straum.	Vassutskifting – 5 meters djup:  <b>3,4 cm/s og 20,6 cm/s</b>
	Vassutskifting – 15 meters djup:  <b>2,5 cm/s og 10,8 cm/s</b>
	Spreiingsstraum – 50 meters djup:  <b>3,1 cm/s og 21,4 cm/s</b>
	Botnstraum – 100 meters djup:  <b>2,0 cm/s og 10,6 cm/s</b>

*Underskrift forfattar*  
**Frode**  
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Haveland  
DN: cn=Frode Haveland,  
o=Resipientanalyse, ou,  
email=resipientanalyse@online.  
no, c=NO  
Date: 2011.01.06 22:29:17 +01'00'  
**Haveland**  
Frode Berge-Haveland  
*Cand. Scient. Marin mikrobiolog*

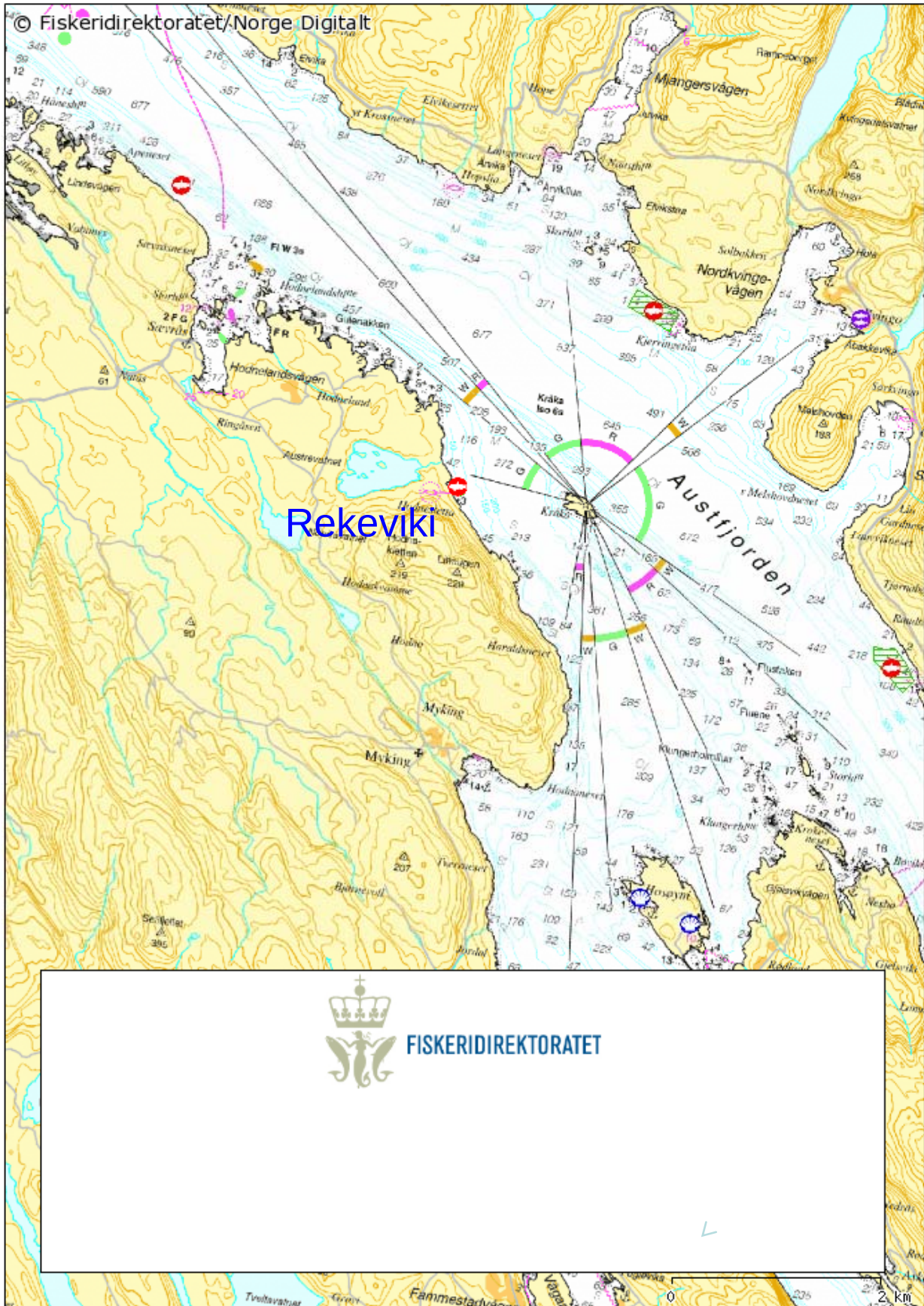
*Ansvarlig underskrift  
for Resipientanalyse*  
  
Frode Berge-Haveland  
*Cand. Scient. Marin mikrobiolog*

## INNHALD

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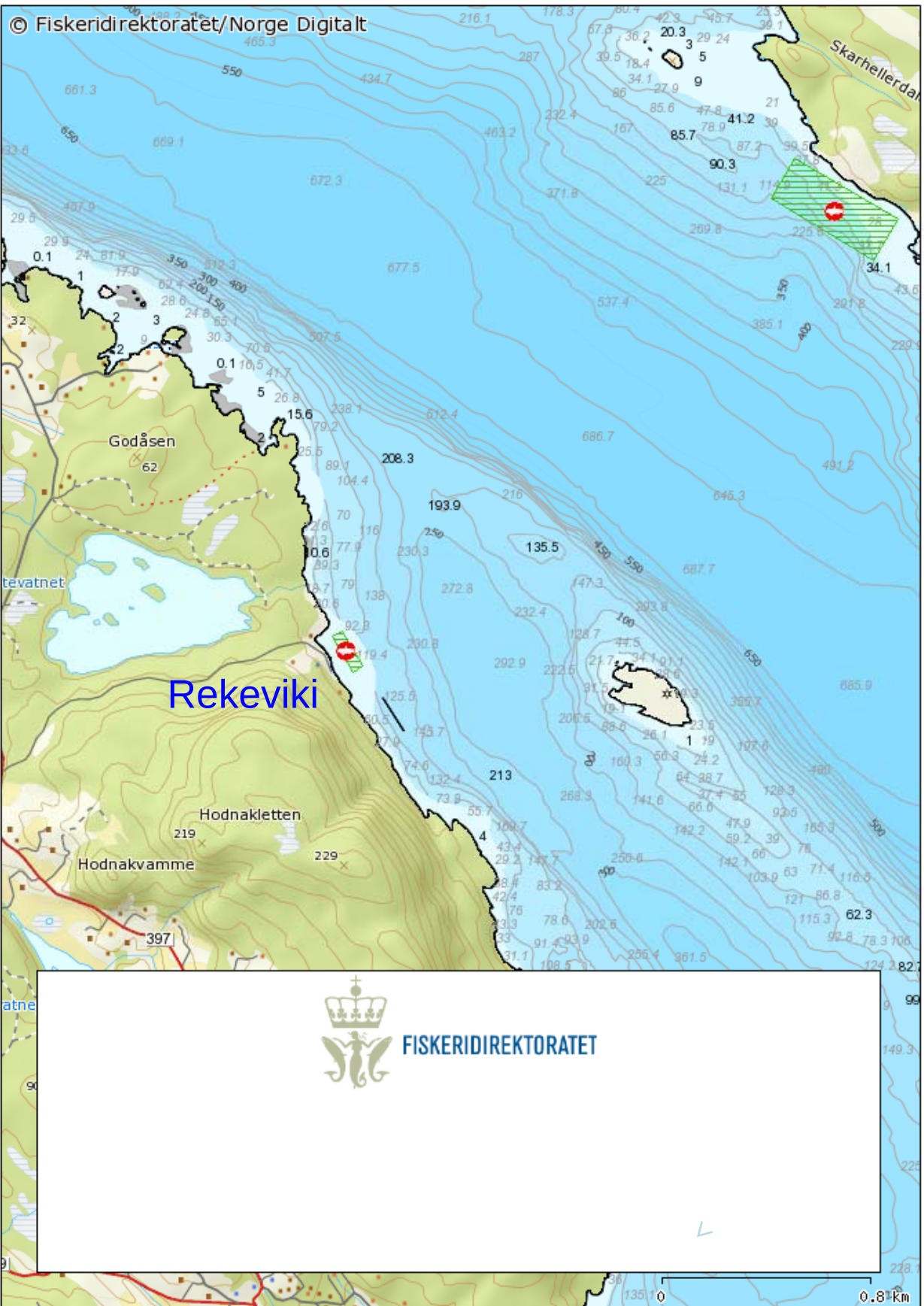
08.11.2010



FISKERIDIREKTORATET

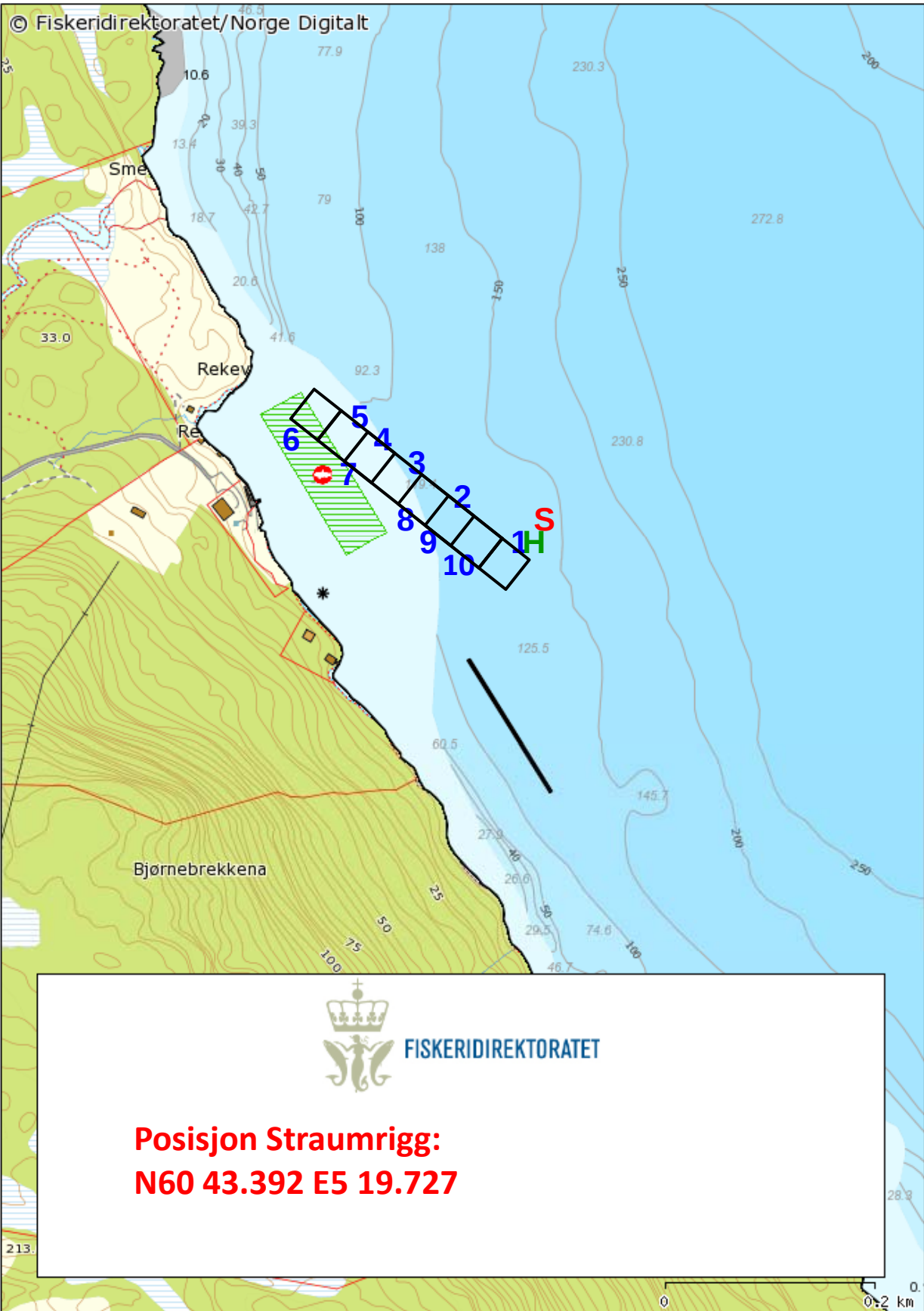
Målestokk: 1:50 000

08.11.2010



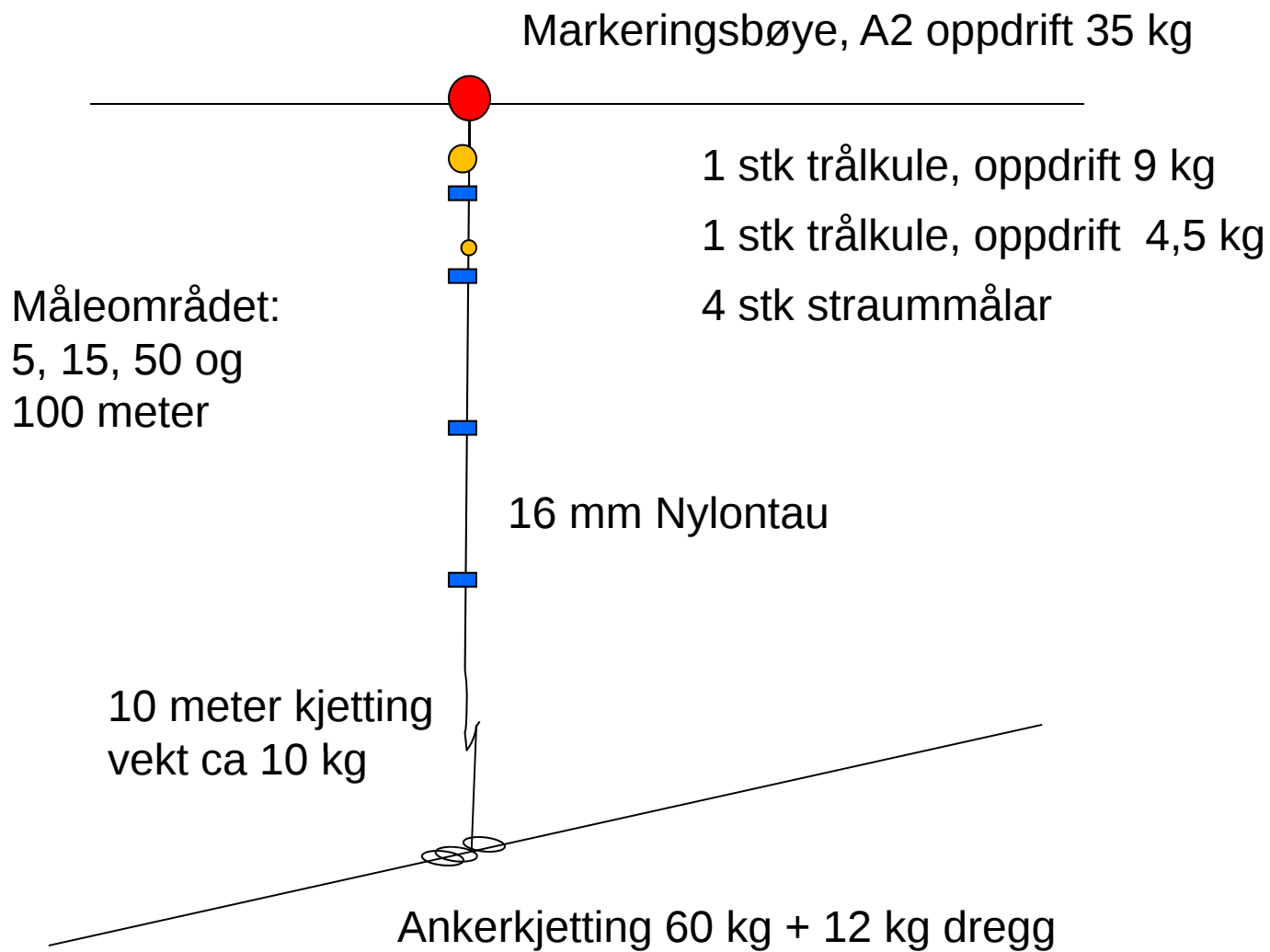
Målestokk: 1:20 000

08.11.2010



Målestokk: 1:5 000

# Skisse for utsetting av SD6000 straummålarar ved ny lokalitet



### 3.1 Statistisk oppsummering av strømmålingsdata

#### STATISTICAL SUMMARY

File name: Rekeviki 5 meter.SD6 Ref. number: 1265  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

Neumann parameter: Rest speed:  
 Average speed: Rest direction:

	Total	East / west	North / south
Mean current speed (cm/s)	3,4	1,6	2,8
Variance (cm/s) <sup>2</sup>	5,243	1,301	5,118
Standard deviation (cm/s)	2,290	1,141	2,262
Mean standard deviation	0,669	0,698	0,806
Maximum current velocity	20,6		
Minimum current velocity	0,0		
Significant max velocity	5,9		
Significant min velocity	1,5		

**5 meter**

#### STATISTICAL SUMMARY

File name: Rekeviki 15 meter.SD6 Ref. number: 1245  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

	Total	East / west	North / south
Mean current speed (cm/s)	2,5	1,5	1,8
Variance (cm/s) <sup>2</sup>	2,880	1,413	2,284
Standard deviation (cm/s)	1,697	1,189	1,511
Mean standard deviation	0,676	0,779	0,850
Maximum current velocity	10,8		
Minimum current velocity	0,0		
Significant max velocity	4,4		
Significant min velocity	1,1		

**15 meter**

#### STATISTICAL SUMMARY

File name: Rekeviki 50 meter.SD6 Ref. number: 1268  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

	Total	East / west	North / south
Mean current speed (cm/s)	3,1	1,6	2,4
Variance (cm/s) <sup>2</sup>	7,387	2,471	6,408
Standard deviation (cm/s)	2,718	1,572	2,531
Mean standard deviation	0,882	1,012	1,070
Maximum current velocity	21,4		
Minimum current velocity	0,2		
Significant max velocity	6,0		
Significant min velocity	1,1		

**50 meter**

#### STATISTICAL SUMMARY

File name: Rekeviki 100 meter.SD6 Ref. number: 1320  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

	Total	East / west	North / south
Mean current speed (cm/s)	2,0	1,0	1,5
Variance (cm/s) <sup>2</sup>	1,680	0,497	1,917
Standard deviation (cm/s)	1,296	0,705	1,385
Mean standard deviation	0,658	0,707	0,945
Maximum current velocity	10,6		
Minimum current velocity	0,4		
Significant max velocity	3,3		
Significant min velocity	1,0		

**100 meter**



### 3.2 Temperaturdata i graf for heile måleperioden

#### TEMPERATURE

File name: Rekevki 5 meter.SD6

Ref. number: 1265

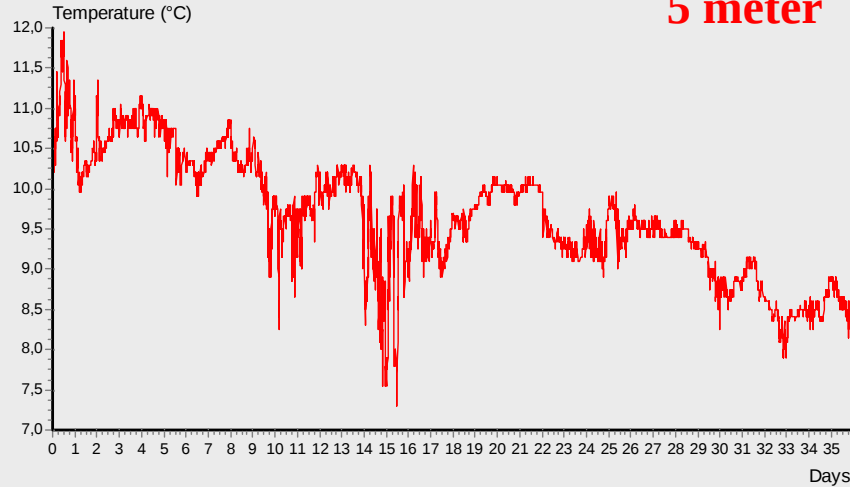
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

**5 meter**



#### TEMPERATURE

File name: Rekevki 15 meter.SD6

Ref. number: 1245

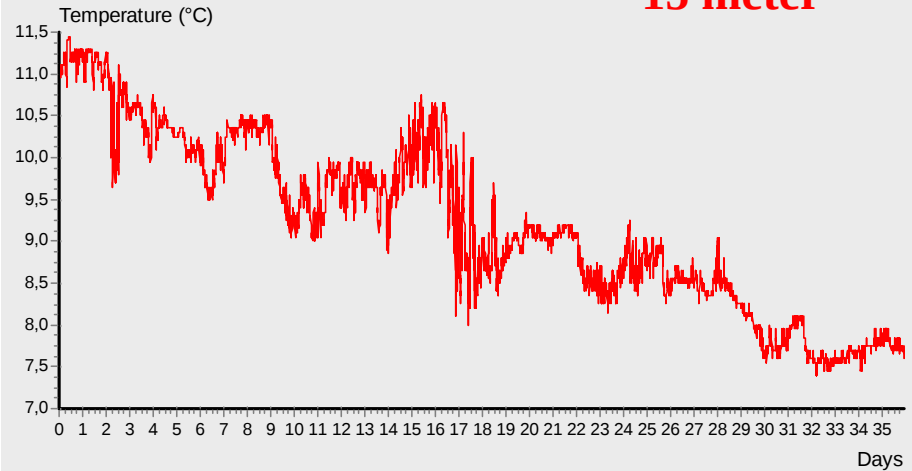
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

**15 meter**



#### TEMPERATURE

File name: Rekevki 50 meter.SD6

Ref. number: 1268

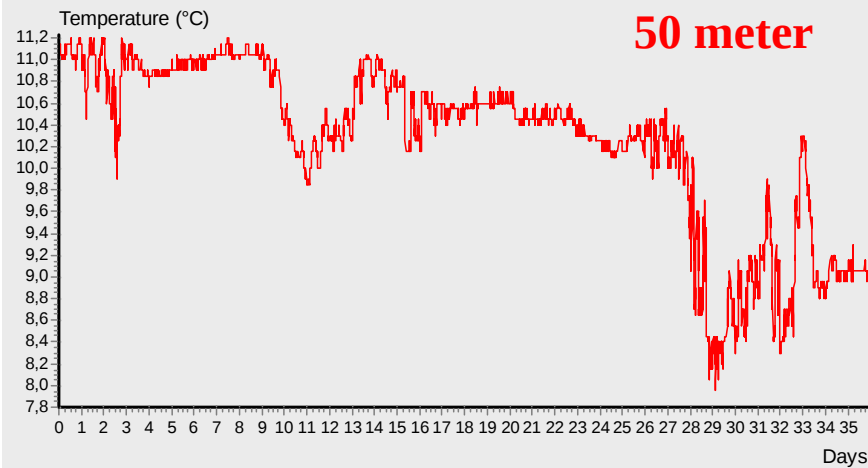
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

**50 meter**



#### TEMPERATURE

File name: Rekevki 100 meter.SD6

Ref. number: 1320

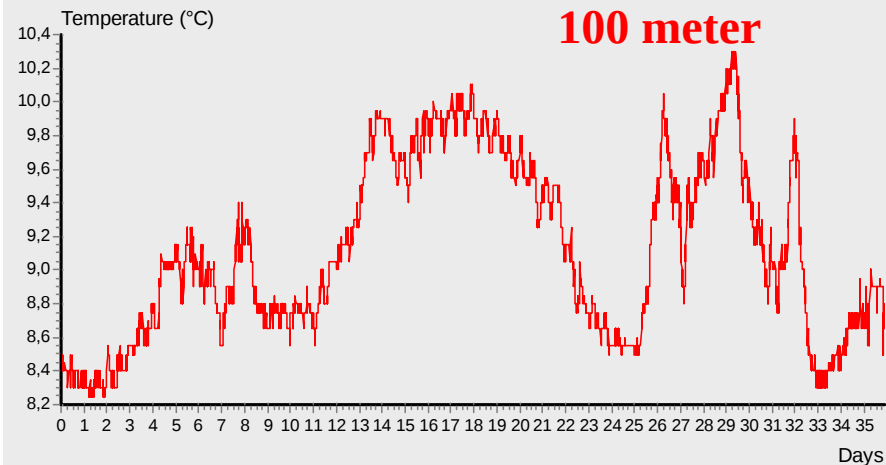
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

**100 meter**



### 3.3 Straummålingsdata i graf for heile måleperioden

#### CURRENT SPEED

File name: Rekeviki 5 meter.SD6

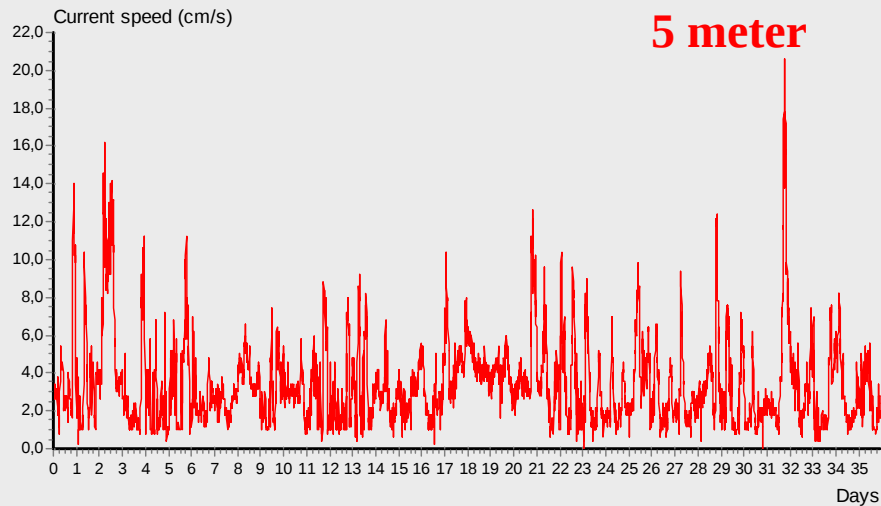
Ref. number: 1265

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



#### CURRENT SPEED

File name: Rekeviki 15 meter.SD6

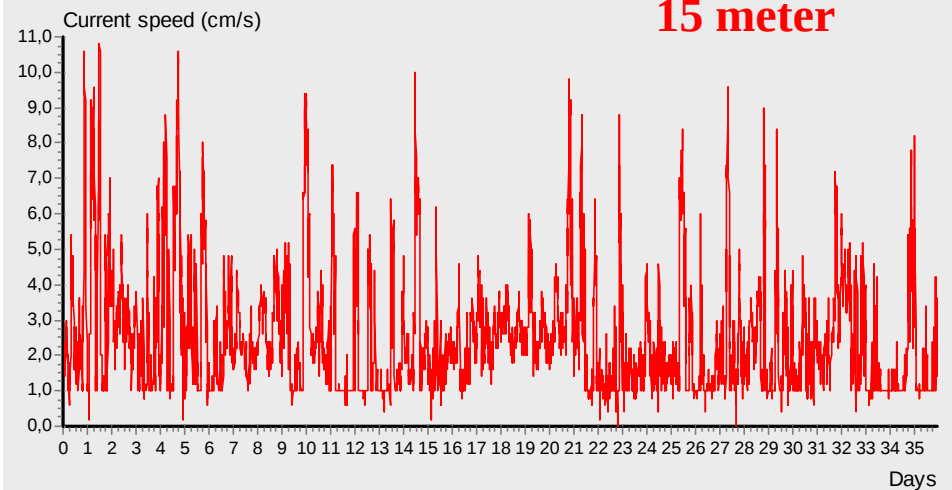
Ref. number: 1245

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



#### CURRENT SPEED

File name: Rekeviki 50 meter.SD6

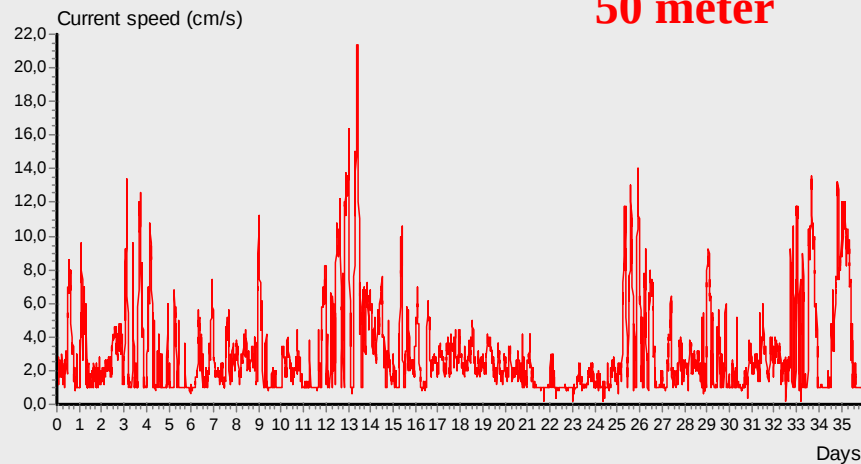
Ref. number: 1268

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



#### CURRENT SPEED

File name: Rekeviki 100 meter.SD6

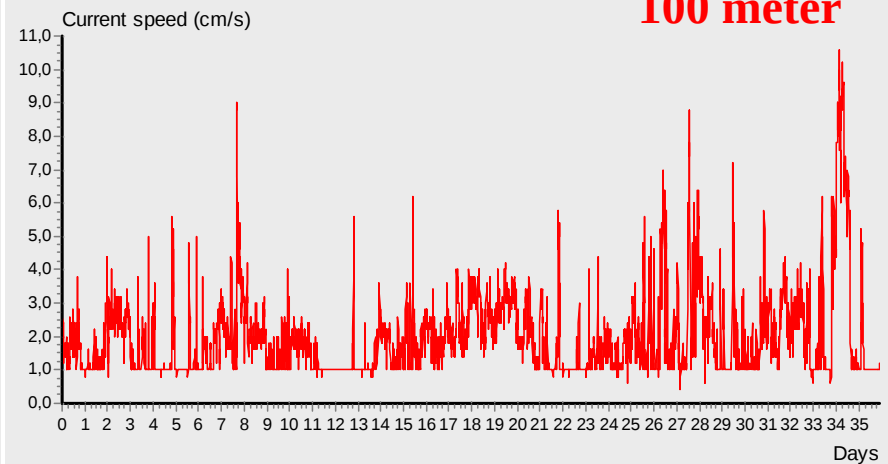
Ref. number: 1320

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



### 3.4 Straummålingsdata i graf for 2 tilfeldig utvalgte døgn

#### CURRENT SPEED

File name: Rekeviki 5 meter.SD6

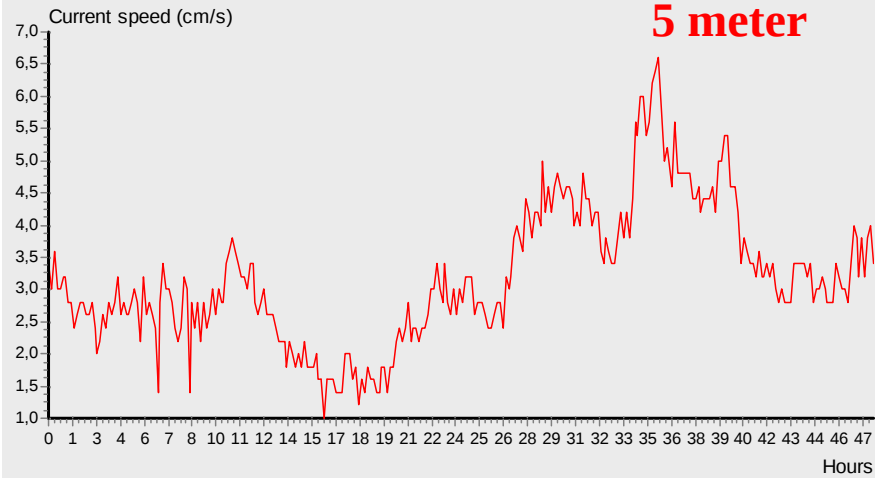
Ref. number: 1265

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 288

Data displayed from: 09:02 - 16.Nov-10 To: 08:52 - 18.Nov-10



#### CURRENT SPEED

File name: Rekeviki 15 meter.SD6

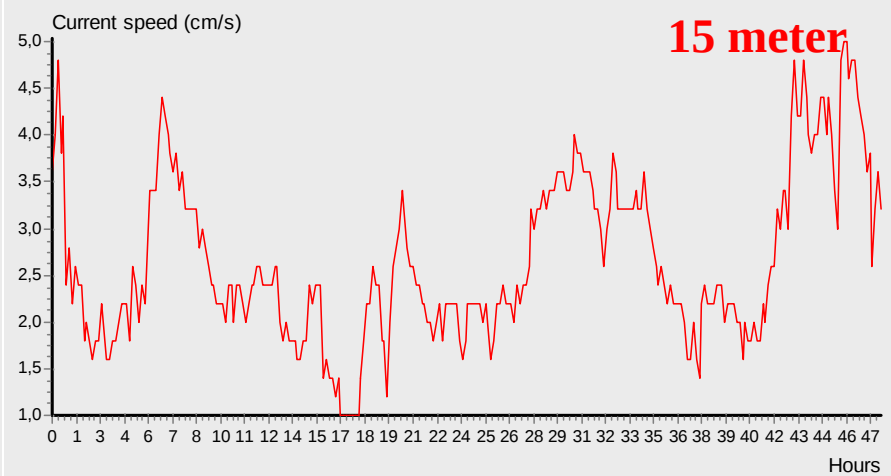
Ref. number: 1245

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 288

Data displayed from: 09:02 - 16.Nov-10 To: 08:52 - 18.Nov-10



#### CURRENT SPEED

File name: Rekeviki 50 meter.SD6

Ref. number: 1268

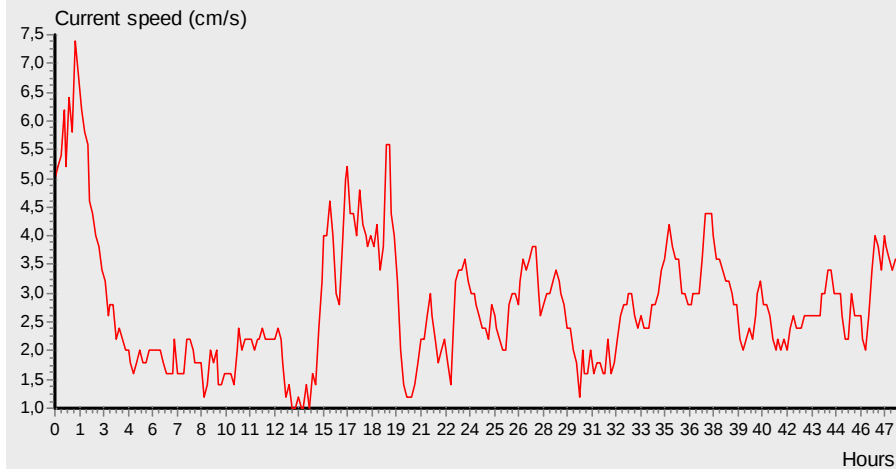
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 288

Data displayed from: 09:01 - 16.Nov-10 To: 08:51 - 18.Nov-10

**50 meter**



#### CURRENT SPEED

File name: Rekeviki 100 meter.SD6

Ref. number: 1320

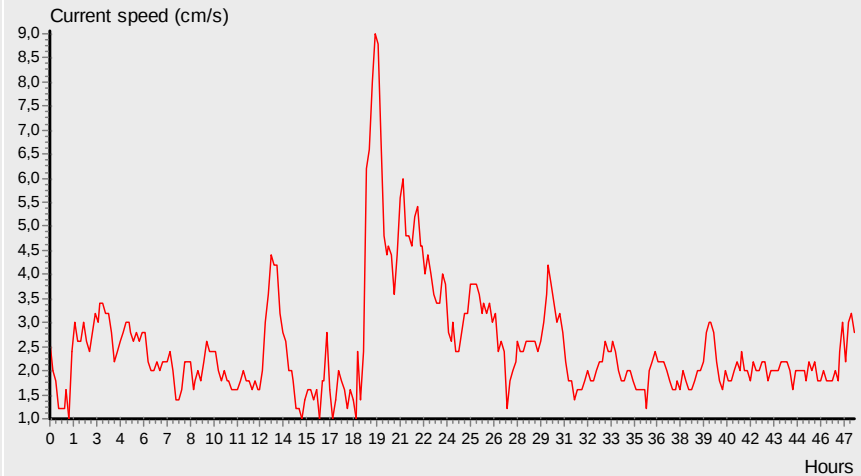
Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 288

Data displayed from: 09:01 - 16.Nov-10 To: 08:51 - 18.Nov-10

**100 meter**

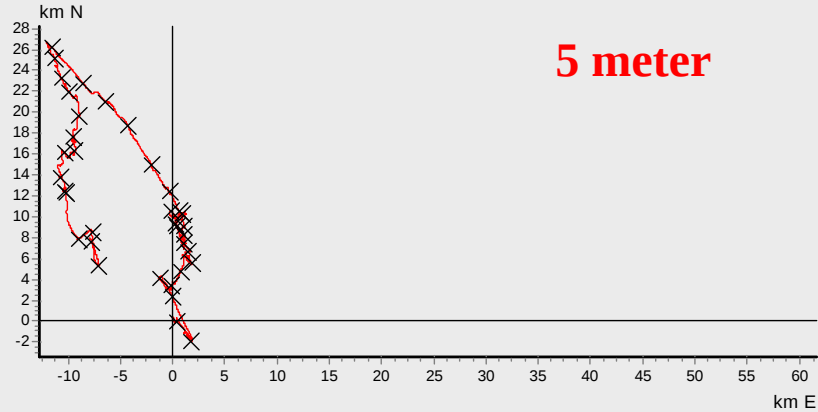


### 3.5 Progressiv vektor

**PROGRESSIVE VECTOR**

File name: Rekeviki 5 meter.SD6 Ref. number: 1265  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

Neumann parameter: 0.105 Rest speed: 0.4 cm/s  
 Average speed: 3.4 cm/s Rest direction: 315 deg.

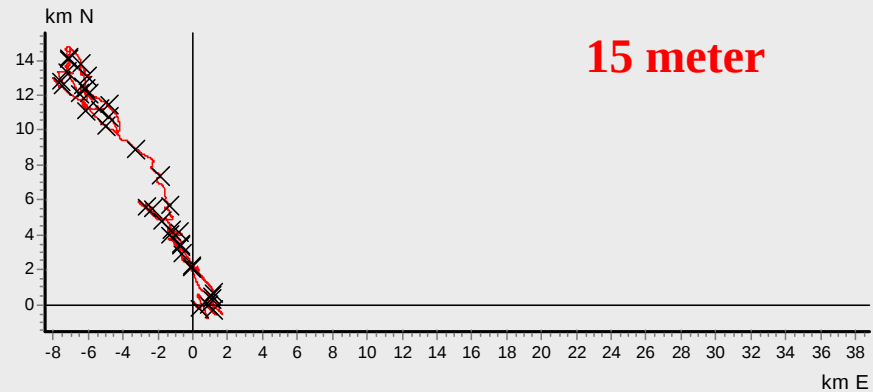


**5 meter**

**PROGRESSIVE VECTOR**

File name: Rekeviki 15 meter.SD6 Ref. number: 1245  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

Neumann parameter: 0.207 Rest speed: 0.5 cm/s  
 Average speed: 2.5 cm/s Rest direction: 333 deg.



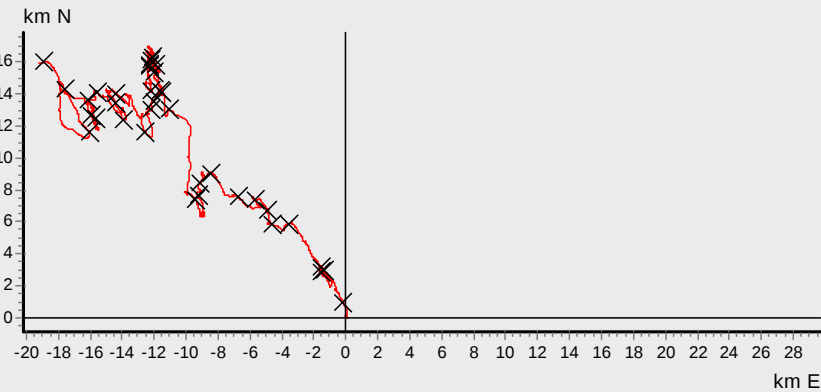
**15 meter**

**PROGRESSIVE VECTOR**

File name: Rekeviki 50 meter.SD6 Ref. number: 1268  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

Neumann parameter: 0.261 Rest speed: 0.8 cm/s  
 Average speed: 3.1 cm/s Rest direction: 310 deg.

**50 meter**

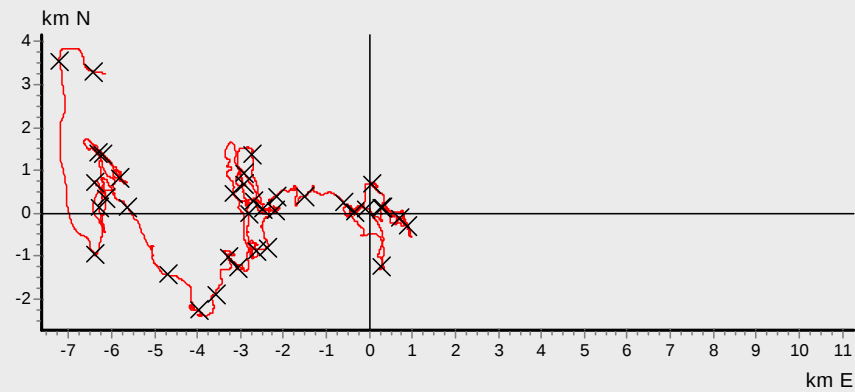


**PROGRESSIVE VECTOR**

File name: Rekeviki 100 meter.SD6 Ref. number: 1320  
 Series number: 1 Interval time: 10 Minutes  
 Number of measurements in data set: 5171  
 Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

Neumann parameter: 0.114 Rest speed: 0.2 cm/s  
 Average speed: 2.0 cm/s Rest direction: 298 deg.

**100 meter**



### 3.6 Maksimum og gjennomsnittlig straumfordelings diagram

**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekeviki 5 meter.SD6

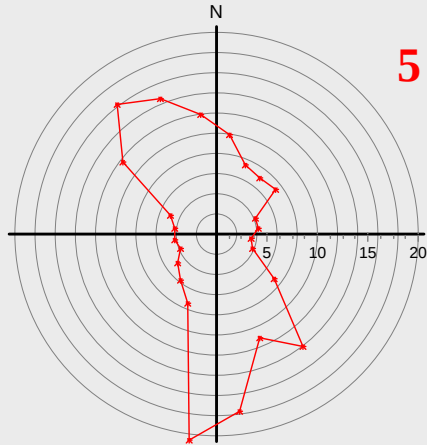
Ref. number: 1265

Series number: 1

Interval time: 10 Minutes

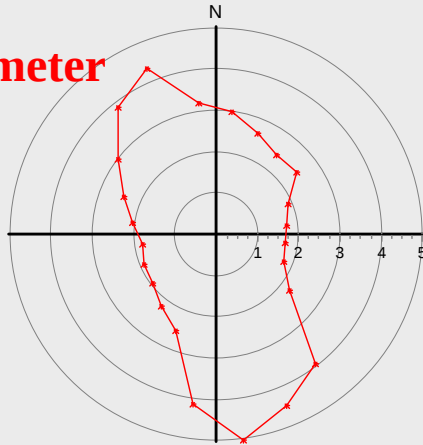
Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



Maximum velocity (cm/s)  
per 15 deg sector

**5 meter**



Mean velocity (cm/s)  
per 15 deg sector

**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekeviki 15 meter.SD6

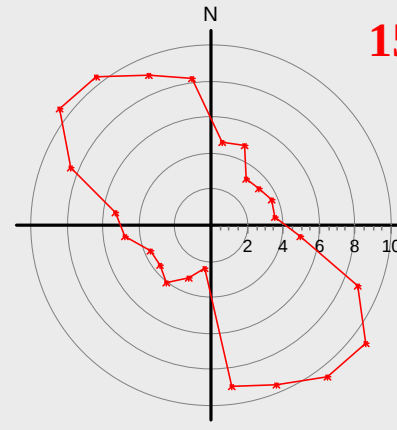
Ref. number: 1245

Series number: 1

Interval time: 10 Minutes

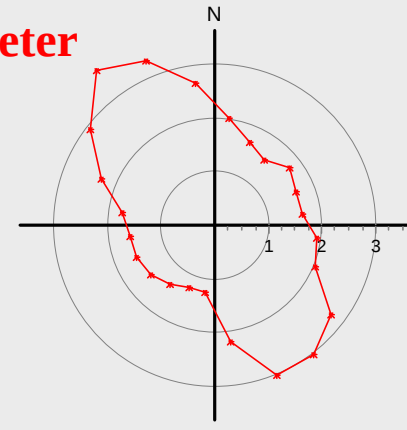
Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



Maximum velocity (cm/s)  
per 15 deg sector

**15 meter**



Mean velocity (cm/s)  
per 15 deg sector

**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekeviki 50 meter.SD6

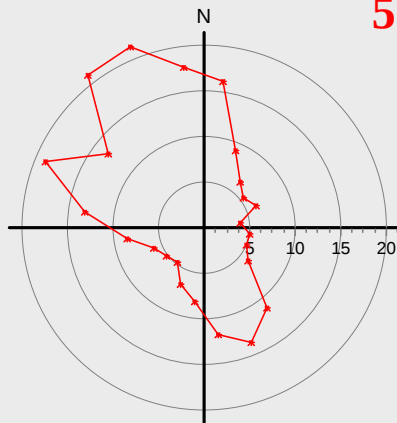
Ref. number: 1268

Series number: 1

Interval time: 10 Minutes

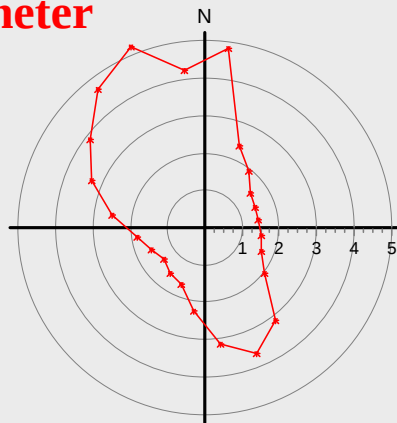
Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



Maximum velocity (cm/s)  
per 15 deg sector

**50 meter**



Mean velocity (cm/s)  
per 15 deg sector

**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekeviki 100 meter.SD6

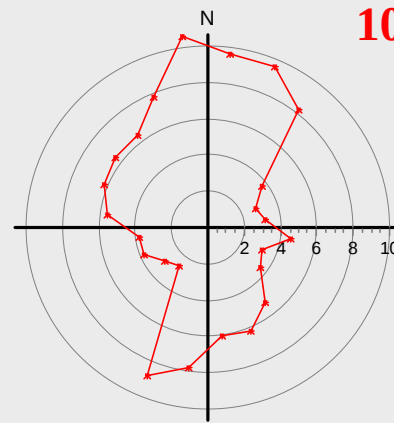
Ref. number: 1320

Series number: 1

Interval time: 10 Minutes

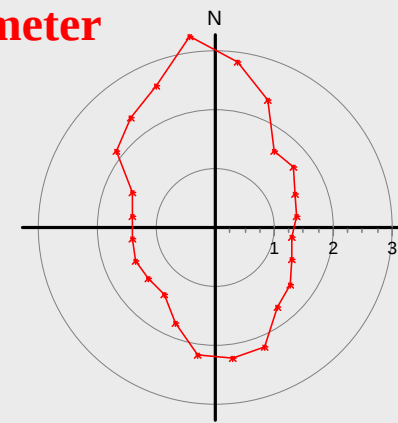
Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



Maximum velocity (cm/s)  
per 15 deg sector

**100 meter**



Mean velocity (cm/s)  
per 15 deg sector

### 3.7 Vassflux

**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekevki 5 meter.SD6

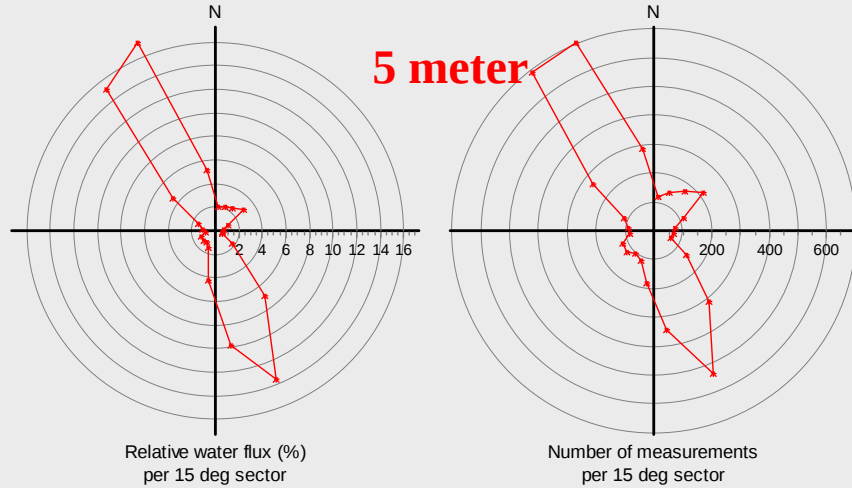
Ref. number: 1265

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekevki 15 meter.SD6

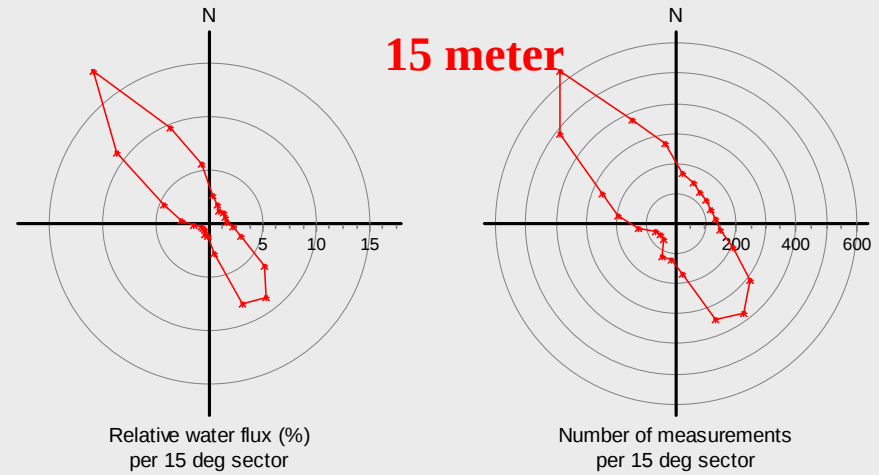
Ref. number: 1245

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10



**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekevki 50 meter.SD6

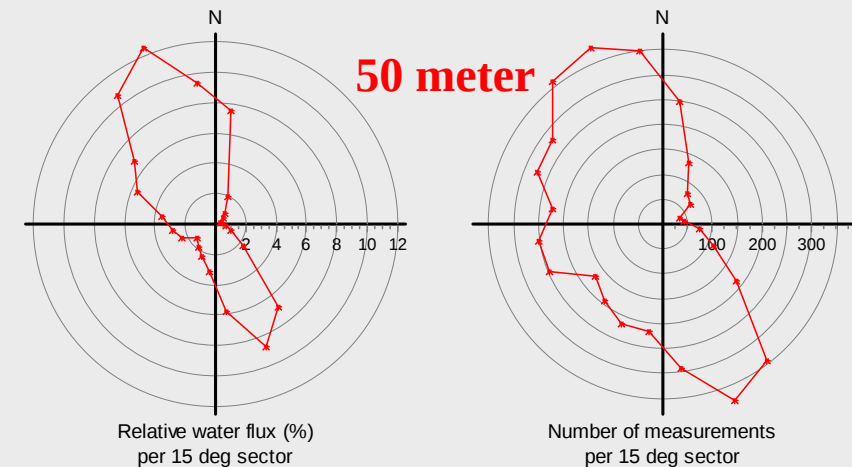
Ref. number: 1268

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



**CURRENT VELOCITY DISTRIBUTION DIAGRAM**

File name: Rekevki 100 meter.SD6

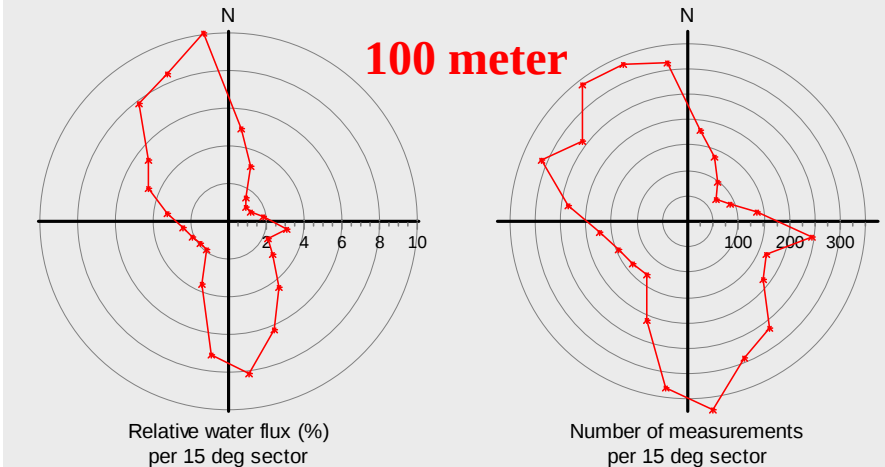
Ref. number: 1320

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10



### 3.8 Straum matrise

#### CURRENT SPEED / DIRECTION MATRIX

File name: Rekeviki 5 meter.SD6

Ref. number: 1265

Series number: 1

Interval time: 10 Minutes

**5 meter**

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

	Current speed groups													Total flow		Max curr
	1	3	4	5	6	8	10	15	25	50	75	100	Sum%	m³/m²	%	
0	16	61	19	9	4	5	5	0	0	0	0	0	2.3	2143	2.0	10.0
15	19	82	20	10	10	3	0	0	0	0	0	0	2.8	2278	2.1	7.4
30	28	107	18	12	7	2	0	0	0	0	0	0	3.4	2537	2.4	7.0
45	39	126	23	18	7	2	0	0	0	0	0	0	4.2	3151	3.0	7.4
60	19	86	6	1	0	0	0	0	0	0	0	0	2.2	1267	1.2	4.2
75	22	49	3	1	0	0	0	0	0	0	0	0	1.5	768	0.7	4.2
90	16	53	1	0	0	0	0	0	0	0	0	0	1.4	706	0.7	3.4
105	16	39	7	0	0	0	0	0	0	0	0	0	1.2	656	0.6	3.8
120	23	93	11	6	2	5	0	0	0	0	0	0	2.7	1873	1.8	7.2
135	17	134	50	39	18	23	14	16	0	0	0	0	6.0	7405	7.0	14.0
150	5	167	79	94	66	97	28	2	0	0	0	0	10.4	14460	13.6	11.2
165	12	95	57	49	29	54	25	21	5	0	0	0	6.7	10456	9.8	17.8
180	13	75	30	18	10	22	6	4	5	0	0	0	3.5	4560	4.3	20.6
195	8	73	11	10	5	3	0	0	0	0	0	0	2.1	1679	1.6	7.4
210	20	61	12	5	3	0	0	0	0	0	0	0	2.0	1324	1.2	5.8
225	23	78	13	3	0	0	0	0	0	0	0	0	2.3	1362	1.3	4.8
240	25	86	6	0	0	0	0	0	0	0	0	0	2.3	1332	1.3	3.8
255	23	54	4	2	0	0	0	0	0	0	0	0	1.6	899	0.8	4.2
270	17	60	10	3	0	0	0	0	0	0	0	0	1.7	1093	1.0	4.2
285	17	61	29	6	0	0	0	0	0	0	0	0	2.2	1631	1.5	5.0
300	20	125	76	34	8	3	0	2	0	0	0	0	5.2	4789	4.5	11.8
315	35	215	176	129	69	33	17	15	1	0	0	0	13.3	16073	15.1	16.2
330	28	194	167	165	56	34	20	42	0	0	0	0	13.7	18352	17.3	14.6
345	24	136	57	44	7	13	0	5	0	0	0	0	5.5	5474	5.2	12.0
Sum%	9.4	44.7	17.1	12.7	5.8	5.8	2.2	2.1	0.2	0.0	0.0	0.0		106267		20.6

#### CURRENT SPEED / DIRECTION MATRIX

File name: Rekeviki 15 meter.SD6

Ref. number: 1245

Series number: 1

Interval time: 10 Minutes

**15 meter**

Number of measurements in data set: 5171

Data displayed from: 11:52 - 09.Nov-10 To: 09:32 - 15.Dec-10

	Current speed groups													Total flow		Max curr
	1	3	4	5	6	8	10	15	25	50	75	100	Sum%	m³/m²	%	
0	42	104	18	5	0	0	0	0	0	0	0	0	3.3	2029	2.6	4.6
15	47	89	10	2	0	0	0	0	0	0	0	0	2.9	1498	1.9	4.8
30	46	83	1	0	0	0	0	0	0	0	0	0	2.5	1204	1.5	3.2
45	35	84	7	0	0	0	0	0	0	0	0	0	2.4	1328	1.7	3.4
60	33	92	1	0	0	0	0	0	0	0	0	0	2.4	1241	1.6	3.6
75	45	80	7	0	0	0	0	0	0	0	0	0	2.6	1307	1.7	3.6
90	41	89	13	4	0	0	0	0	0	0	0	0	2.8	1700	2.2	5.0
105	52	125	15	7	1	2	1	0	0	0	0	0	3.9	2496	3.2	8.8
120	39	178	48	17	7	12	5	2	0	0	0	0	6.0	5066	6.5	10.8
135	51	168	85	20	19	21	7	2	0	0	0	0	7.2	6810	8.7	10.6
150	65	137	63	42	7	24	7	0	0	0	0	0	6.7	6266	8.0	9.6
165	54	81	12	6	7	6	1	0	0	0	0	0	3.2	2206	2.8	9.0
180	72	47	0	0	0	0	0	0	0	0	0	0	2.3	899	1.2	2.4
195	67	51	1	0	0	0	0	0	0	0	0	0	2.3	902	1.2	3.2
210	31	33	2	0	0	0	0	0	0	0	0	0	1.3	548	0.7	4.0
225	28	34	2	0	0	0	0	0	0	0	0	0	1.2	576	0.7	3.6
240	29	39	3	0	0	0	0	0	0	0	0	0	1.4	667	0.9	3.6
255	50	73	1	1	0	0	0	0	0	0	0	0	2.4	1194	1.5	4.8
270	68	112	9	4	3	0	0	0	0	0	0	0	3.8	2068	2.7	5.4
285	62	152	24	15	8	4	1	0	0	0	0	0	5.1	3635	4.7	8.4
300	69	243	97	36	16	13	9	3	0	0	0	0	9.4	8503	10.9	10.6
315	90	225	114	67	41	65	35	1	0	0	0	0	12.3	13933	17.9	10.4
330	42	173	51	41	35	29	5	0	0	0	0	0	7.3	7482	9.6	9.0
345	45	145	33	24	15	8	1	0	0	0	0	0	5.2	4346	5.6	8.2
Sum%	23.3	51.0	11.9	5.6	3.1	3.6	1.4	0.2	0.0	0.0	0.0	0.0		77905		10.8

**CURRENT SPEED / DIRECTION MATRIX**

File name: Rekeviki 50 meter.SD6

Ref. number: 1268

**50 meter**

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

	Current speed groups												Total flow		Max curr	
	1	3	4	5	6	8	10	15	25	50	75	100	Sum%	m <sup>3</sup> /m <sup>2</sup>		%
0	46	90	23	13	8	13	9	45	3	0	0	0	4.8	7261	7.6	16.2
15	33	76	7	5	6	5	2	0	0	0	0	0	2.6	1909	2.0	9.2
30	29	45	0	1	0	4	0	0	0	0	0	0	1.5	911	1.0	6.4
45	28	39	0	0	1	0	0	0	0	0	0	0	1.3	628	0.7	5.4
60	21	14	0	0	0	1	0	0	0	0	0	0	0.7	312	0.3	6.2
75	21	21	2	0	0	0	0	0	0	0	0	0	0.9	386	0.4	4.0
90	30	42	1	1	0	0	0	0	0	0	0	0	1.4	673	0.7	5.0
105	43	66	0	1	0	0	0	0	0	0	0	0	2.1	1088	1.1	5.0
120	67	88	23	4	3	0	0	0	0	0	0	0	3.6	2219	2.3	6.0
135	30	160	103	23	13	6	6	5	0	0	0	0	6.7	6539	6.8	11.2
150	40	172	62	45	14	14	15	20	0	0	0	0	7.4	8375	8.8	13.6
165	62	124	31	23	11	24	12	4	0	0	0	0	5.6	5532	5.8	11.8
180	66	112	18	5	7	8	3	0	0	0	0	0	4.2	2987	3.1	8.2
195	101	104	5	2	3	3	0	0	0	0	0	0	4.2	2159	2.3	6.8
210	87	100	5	2	0	0	0	0	0	0	0	0	3.8	1769	1.9	4.8
225	91	77	0	1	1	0	0	0	0	0	0	0	3.3	1409	1.5	5.2
240	131	101	11	3	2	0	0	0	0	0	0	0	4.8	2303	2.4	6.0
255	114	108	18	6	4	1	1	0	0	0	0	0	4.9	2761	2.9	8.6
270	70	109	17	12	4	3	0	10	0	0	0	0	4.4	3402	3.6	13.2
285	62	118	21	20	17	17	3	9	5	0	0	0	5.3	5368	5.6	18.8
300	32	111	35	24	16	41	10	10	0	0	0	0	5.4	6458	6.8	13.2
315	21	130	52	35	21	44	38	21	1	0	0	0	7.0	10208	10.7	21.0
330	29	105	61	22	31	52	45	33	4	0	0	0	7.4	11987	12.5	21.4
345	43	126	48	22	27	36	25	20	3	0	0	0	6.8	8966	9.4	17.8
Sum%	25.1	43.3	10.5	5.2	3.7	5.3	3.3	3.4	0.3	0.0	0.0	0.0		95610		21.4

**CURRENT SPEED / DIRECTION MATRIX**

File name: Rekeviki 100 meter.SD6

Ref. number: 1320

**100 meter**

Series number: 1

Interval time: 10 Minutes

Number of measurements in data set: 5171

Data displayed from: 11:51 - 09.Nov-10 To: 09:31 - 15.Dec-10

	Current speed groups												Total flow		Max curr	
	1	3	4	5	6	8	10	15	25	50	75	100	Sum%	m <sup>3</sup> /m <sup>2</sup>		%
0	36	92	28	4	2	7	11	0	0	0	0	0	3.5	3040	5.0	9.6
15	35	69	17	8	2	4	2	0	0	0	0	0	2.6	1926	3.2	9.6
30	40	52	2	1	0	0	1	0	0	0	0	0	1.9	938	1.5	8.2
45	27	43	2	0	0	0	0	0	0	0	0	0	1.4	718	1.2	3.8
60	40	49	0	0	0	0	0	0	0	0	0	0	1.7	784	1.3	2.8
75	67	70	1	0	0	0	0	0	0	0	0	0	2.7	1146	1.9	3.2
90	171	69	4	2	0	0	0	0	0	0	0	0	4.8	1913	3.1	4.6
105	97	70	1	0	0	0	0	0	0	0	0	0	3.2	1398	2.3	3.2
120	72	105	10	0	0	0	0	0	0	0	0	0	3.6	1798	2.9	3.6
135	99	141	22	1	1	0	0	0	0	0	0	0	5.1	2716	4.4	5.2
150	68	168	41	7	7	1	0	0	0	0	0	0	5.6	3829	6.3	6.2
165	69	236	53	11	5	0	0	0	0	0	0	0	7.2	4974	8.1	6.0
180	87	193	30	10	5	7	0	0	0	0	0	0	6.4	4358	7.1	7.8
195	87	102	15	3	2	0	1	0	0	0	0	0	4.1	2219	3.6	8.8
210	63	69	0	0	0	0	0	0	0	0	0	0	2.6	1132	1.9	2.6
225	71	66	0	0	0	0	0	0	0	0	0	0	2.6	1168	1.9	3.0
240	77	64	6	0	0	0	0	0	0	0	0	0	2.8	1277	2.1	3.8
255	98	69	8	0	0	0	0	0	0	0	0	0	3.4	1493	2.4	3.8
270	130	103	1	2	1	0	0	0	0	0	0	0	4.6	1998	3.3	5.6
285	148	150	7	2	3	1	0	0	0	0	0	0	6.0	2832	4.6	6.2
300	58	164	20	9	8	1	0	0	0	0	0	0	5.0	3305	5.4	6.4
315	73	180	49	23	12	2	0	0	0	0	0	0	6.6	4790	7.8	6.4
330	71	151	67	22	9	13	0	0	0	0	0	0	6.4	5174	8.5	7.8
345	71	134	30	13	15	31	19	2	0	0	0	0	6.1	6163	10.1	10.6
Sum%	35.9	50.5	8.0	2.3	1.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0		61087		10.6



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