



## Aqua Kompetanse A/S 7770 Flatanger

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**Sinkaberg Hansen AS**  
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**29. juli 2014**

### **Lokalitet: Sørværa, Herøy. Strømmålinger. Overflate- og dimensjoneringsstrøm.**

Som avtalt sender vi over strømmålingene fra området ved Sørværa i Herøy kommune. Dette er en oppsummering for å få en oversikt over resultatene av strømmålingene og er bygd på forutsetningen om at du/dere studerer vedlagte data nøye selv. Rådataene finnes oppbevart hos Aqua Kompetanse AS.

### **Firmanavn / Lokalitet / Type oppdrett:**

|                    |   |                      |
|--------------------|---|----------------------|
| Firma              | : Sinkaberg Hansen AS   | Adresse: 7900 Rørвик |
| Lokalitet          | : Sørværa   |                      |
| Kommune            | : Herøy   | Fylke : Nordland     |
| Sjøkartkoordinater | : 65°52.730N, 11°55.259Ø  |                      |
| Oppdrettstype      | : Generelle strømforhold  |                      |
| Hva er vurdert     | : Overflate (5 m) og dimensjoneringsstrøm (14 m), samt strøm på 10 m dyp. |                      |

### **Måleperiode / frekvenser:**

Målingene er utført med Nortek akustisk profilerende dopplermåler. Måleren registrerer i 1 minutt sammenhengende, og hviler i 9 minutter. Det er foretatt en automatisk kvalitetskontroll av datasettet med programvaren SeaReport v.1.1.4. Datasettet hadde god kvalitet, og ingen målinger er fjernet manuelt.

### **Nærhet til anlegg:**

Dopplermåleren (AQ2) har stått på en lokalitet (ca. dyp på målestedet er ca. 130 m), hvor det under måleperioden ikke sto anlegg eller andre fortøyninger i sjøen.

### **Kort vurdering:**

I denne måleserien er gjennomsnittsstrømmen 10 cm/sek på 5 meters dyp, og 9 cm/sek på 10 og 14 meters dyp. Maksimalstrømmen i de tre dypene er 40, 37, 32 cm/sek. Overflatestrømmen har fremherskende retning mot vest-sørvest (240-285)°, og vannstrømmen på 14 meters dyp har hovedkomponenter mot øst-nordøst (30-105)°. Vannstrømmen på 10 meters dyp har hovedkomponenter mot både vest-nordvest og øst-sørøst. Neumannsparameter viser en moderat ensrettet strøm på 5 og 14 meters dyp, mens strømmen er mindre ensrettet på 10 meters dyp. Det er registrert en lav andel strømstille i de utvalgte dypene.

Med hilsen:

Linda Hagen  
Trainee oseanografi, Aqua Kompetanse AS

Kvalitetssikret av:

Vidar Strøm  
Oppdrettsbiolog, Aqua Kompetanse AS

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## Details

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### Instrument

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|           |          |
|-----------|----------|
| Head Id   | AQP 4291 |
| Board Id  | AQD 8725 |
| Frequency | 400000   |

### Configuration

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|                            |                  |
|----------------------------|------------------|
| File                       | SBHAq2.prf       |
| Start                      | 20.05.2014 12:00 |
| End                        | 10.07.2014 14:00 |
| Data Records               | 7357             |
| Longitude                  | 11°55.259 E      |
| Latitude                   | 65°52.730 N      |
| Orientation                | UP               |
| Cells                      | 50               |
| Cell Size [m]              | 1                |
| Blanking Distance [m]      | 0,98             |
| Average Interval [sec]     | 00:01:00         |
| Measurement Interval [sec] | 00:10:00         |

### Quality

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|                          |    |
|--------------------------|----|
| Low Pressure Treshold    | 0  |
| HighTilt Threshold       | 30 |
| Expected Orientation     | UP |
| Amplitude Spike Treshold | 70 |
| Velocity Spike Treshold  | 5  |
| SNR Treshold             | 3  |

### Post processing

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|                             |                  |
|-----------------------------|------------------|
| Selected Start              | 20.05.2014 13:30 |
| Selected End                | 09.07.2014 10:30 |
| Compass Offset              | 0                |
| Pressure Offset             | 0                |
| Selected Records            | 7183             |
| Reference                   | Water Surface    |
| Strøm 5 meter [m]           | 5                |
| Strøm 5 meter Invalid Data  | 0                |
| Strøm 10 meter [m]          | 10               |
| Strøm 10 meter Invalid Data | 0                |
| Strøm 14 meter [m]          | 14               |
| Strøm 14 meter Invalid Data | 663              |

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## Statistics

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### Strøm 5 meters dyp

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|                                 |  |
|---------------------------------|--|
| Mean current [m/s]              | 0.10                                   |
| Max current [m/s]               | 0.40                                   |
| Min current [m/s]               | 0.00                                   |
| Measurements used/total [#]     | 7183 / 7183                            |
| Std.dev [m/s]                   | 0.06                                   |
| Significant max velocity [m/s]  | 0.17                                   |
| Significant min velocity [m/s]  | 0.04                                   |
| 10 year return current [m/s]    | 0.661                                  |
| 50 year return current [m/s]    | 0.742                                  |
| Most significant directions [°] | 270°, 285°, 255°, 240°                 |
| Most significant speeds [m/s]   | 0.10, 0.15, 0.05, 0.20                 |
| Most flow                       | 807.86m <sup>3</sup> / day at 255-270° |
| Least flow                      | 228.54m <sup>3</sup> / day at 75-90°   |
| Neumann parameter               | 0.23                                   |
| Residue current                 | 0.02 m/s at 263°                       |
| Zero current [%] - [HH:mm]      | 0.97% - 00:20                          |

### Strøm 10 meters dyp

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|                                 |  |
|---------------------------------|--|
| Mean current [m/s]              | 0.09                                   |
| Max current [m/s]               | 0.37                                   |
| Min current [m/s]               | 0.00                                   |
| Measurements used/total [#]     | 7183 / 7183                            |
| Std.dev [m/s]                   | 0.05                                   |
| Significant max velocity [m/s]  | 0.15                                   |
| Significant min velocity [m/s]  | 0.04                                   |
| 10 year return current [m/s]    | 0.610                                  |
| 50 year return current [m/s]    | 0.684                                  |
| Most significant directions [°] | 120°, 300°, 105°, 270°                 |
| Most significant speeds [m/s]   | 0.10, 0.15, 0.05, 0.20                 |
| Most flow                       | 476.79m <sup>3</sup> / day at 105-120° |
| Least flow                      | 172.22m <sup>3</sup> / day at 180-195° |
| Neumann parameter               | 0.05                                   |
| Residue current                 | 0.00 m/s at 9°                         |
| Zero current [%] - [HH:mm]      | 0.93% - 00:10                          |

### Strøm 14 meters dyp

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|                                |             |
|--------------------------------|-------------|
| Mean current [m/s]             | 0.09        |
| Max current [m/s]              | 0.32        |
| Min current [m/s]              | 0.00        |
| Measurements used/total [#]    | 6520 / 7183 |
| Std.dev [m/s]                  | 0.05        |
| Significant max velocity [m/s] | 0.14        |
| Significant min velocity [m/s] | 0.04        |
| 10 year return current [m/s]   | 0.528       |
| 50 year return current [m/s]   | 0.592       |

|                                 |  |
|---------------------------------|--|
| Most significant directions [°] | 90°, 105°, 75°, 45°                    |
| Most significant speeds [m/s]   | 0.10, 0.15, 0.05, 0.20                 |
| Most flow                       | 596.16m <sup>3</sup> / day at 75-90°   |
| Least flow                      | 144.32m <sup>3</sup> / day at 195-210° |
| Neumann parameter               | 0.25                                   |
| Residue current                 | 0.02 m/s at 52°                        |
| Zero current [%] - [HH:mm]      | 0.97% - 00:10                          |

## Direction with return period

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### Strøm 5 meters dyp

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| <b>Direction</b> | <b>Mean</b> | <b>Max</b> | <b>Mean 10y</b> | <b>Max 10y</b> | <b>Mean 50y</b> | <b>Max 50y</b> |
|------------------|-------------|------------|-----------------|----------------|-----------------|----------------|
| 0                | 0,096       | 0,382      | 0,159           | 0,630          | 0,178           | 0,706          |
| 45               | 0,106       | 0,401      | 0,175           | 0,661          | 0,196           | 0,742          |
| 90               | 0,088       | 0,302      | 0,145           | 0,499          | 0,163           | 0,559          |
| 135              | 0,090       | 0,284      | 0,149           | 0,468          | 0,167           | 0,525          |
| 180              | 0,086       | 0,254      | 0,142           | 0,420          | 0,160           | 0,471          |
| 225              | 0,107       | 0,356      | 0,176           | 0,588          | 0,198           | 0,659          |
| 270              | 0,123       | 0,346      | 0,202           | 0,572          | 0,227           | 0,641          |
| 315              | 0,103       | 0,307      | 0,169           | 0,507          | 0,190           | 0,568          |

### Strøm 10 meters dyp

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| <b>Direction</b> | <b>Mean</b> | <b>Max</b> | <b>Mean 10y</b> | <b>Max 10y</b> | <b>Mean 50y</b> | <b>Max 50y</b> |
|------------------|-------------|------------|-----------------|----------------|-----------------|----------------|
| 0                | 0,089       | 0,314      | 0,147           | 0,518          | 0,164           | 0,580          |
| 45               | 0,087       | 0,370      | 0,144           | 0,610          | 0,162           | 0,684          |
| 90               | 0,091       | 0,321      | 0,150           | 0,530          | 0,168           | 0,595          |
| 135              | 0,093       | 0,254      | 0,154           | 0,420          | 0,172           | 0,471          |
| 180              | 0,073       | 0,261      | 0,120           | 0,430          | 0,135           | 0,482          |
| 225              | 0,090       | 0,281      | 0,149           | 0,463          | 0,167           | 0,520          |
| 270              | 0,100       | 0,309      | 0,166           | 0,510          | 0,186           | 0,572          |
| 315              | 0,093       | 0,251      | 0,153           | 0,415          | 0,171           | 0,465          |

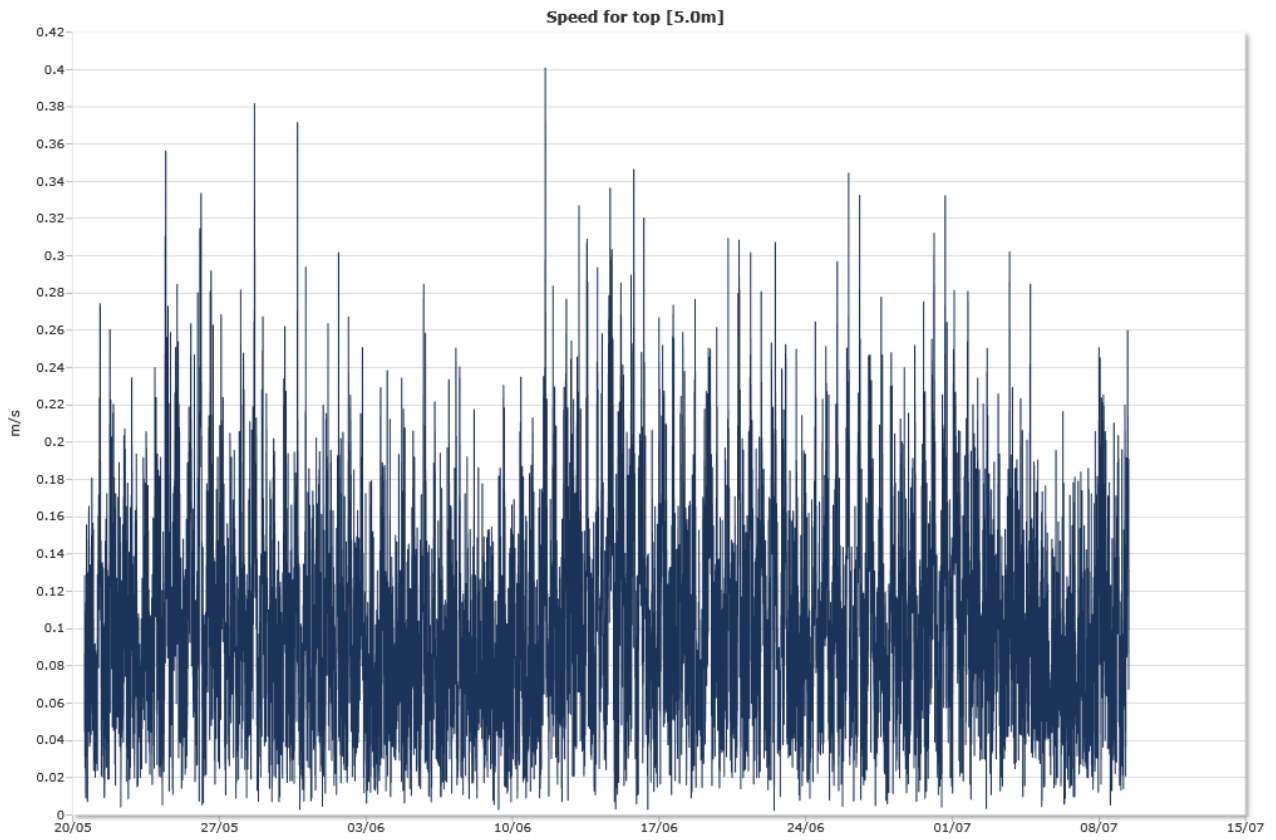
### Strøm 14 meters dyp

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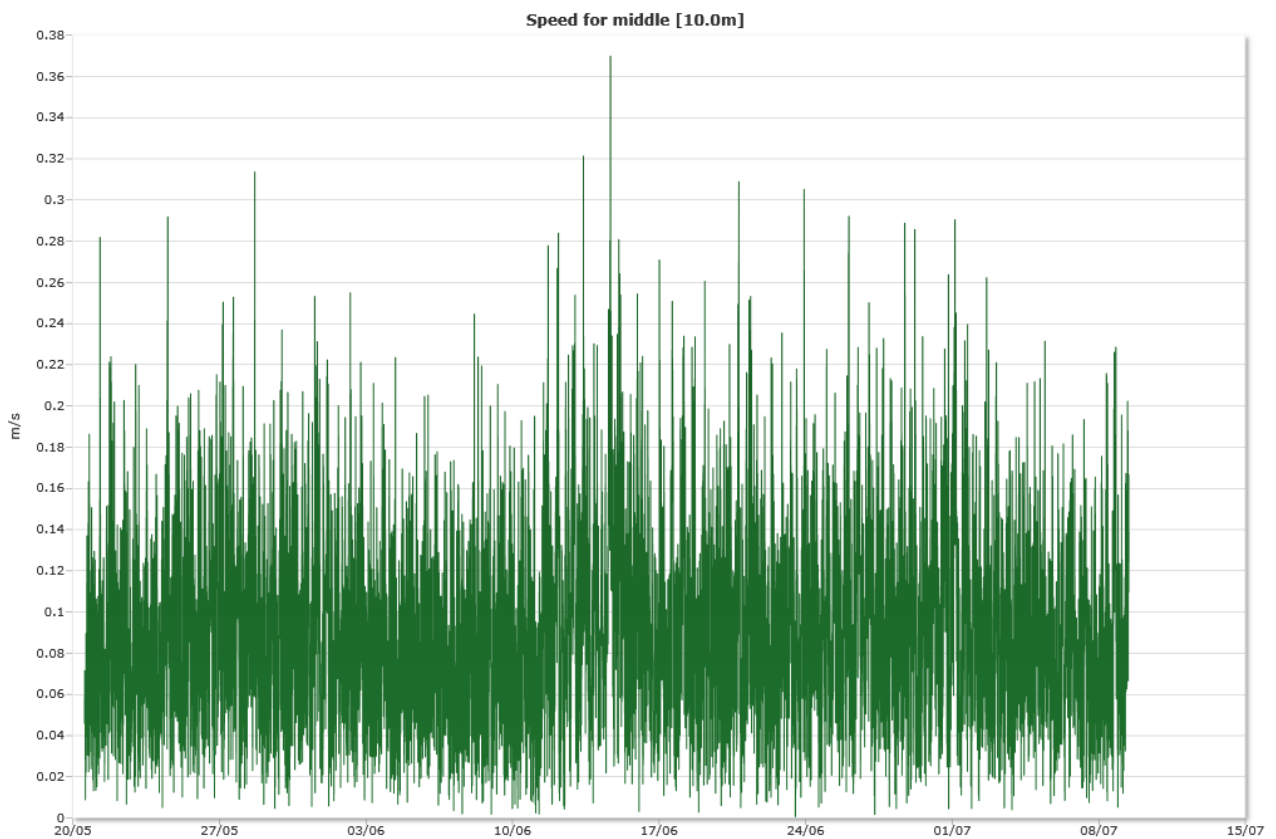
| <b>Direction</b> | <b>Mean</b> | <b>Max</b> | <b>Mean 10y</b> | <b>Max 10y</b> | <b>Mean 50y</b> | <b>Max 50y</b> |
|------------------|-------------|------------|-----------------|----------------|-----------------|----------------|
| 0                | 0,089       | 0,320      | 0,147           | 0,528          | 0,165           | 0,592          |
| 45               | 0,097       | 0,316      | 0,160           | 0,522          | 0,179           | 0,586          |
| 90               | 0,101       | 0,310      | 0,167           | 0,511          | 0,188           | 0,573          |
| 135              | 0,087       | 0,282      | 0,144           | 0,465          | 0,162           | 0,521          |
| 180              | 0,079       | 0,255      | 0,130           | 0,421          | 0,145           | 0,472          |
| 225              | 0,081       | 0,245      | 0,134           | 0,404          | 0,150           | 0,453          |
| 270              | 0,087       | 0,247      | 0,143           | 0,407          | 0,161           | 0,457          |
| 315              | 0,087       | 0,272      | 0,144           | 0,448          | 0,162           | 0,503          |

## Time series

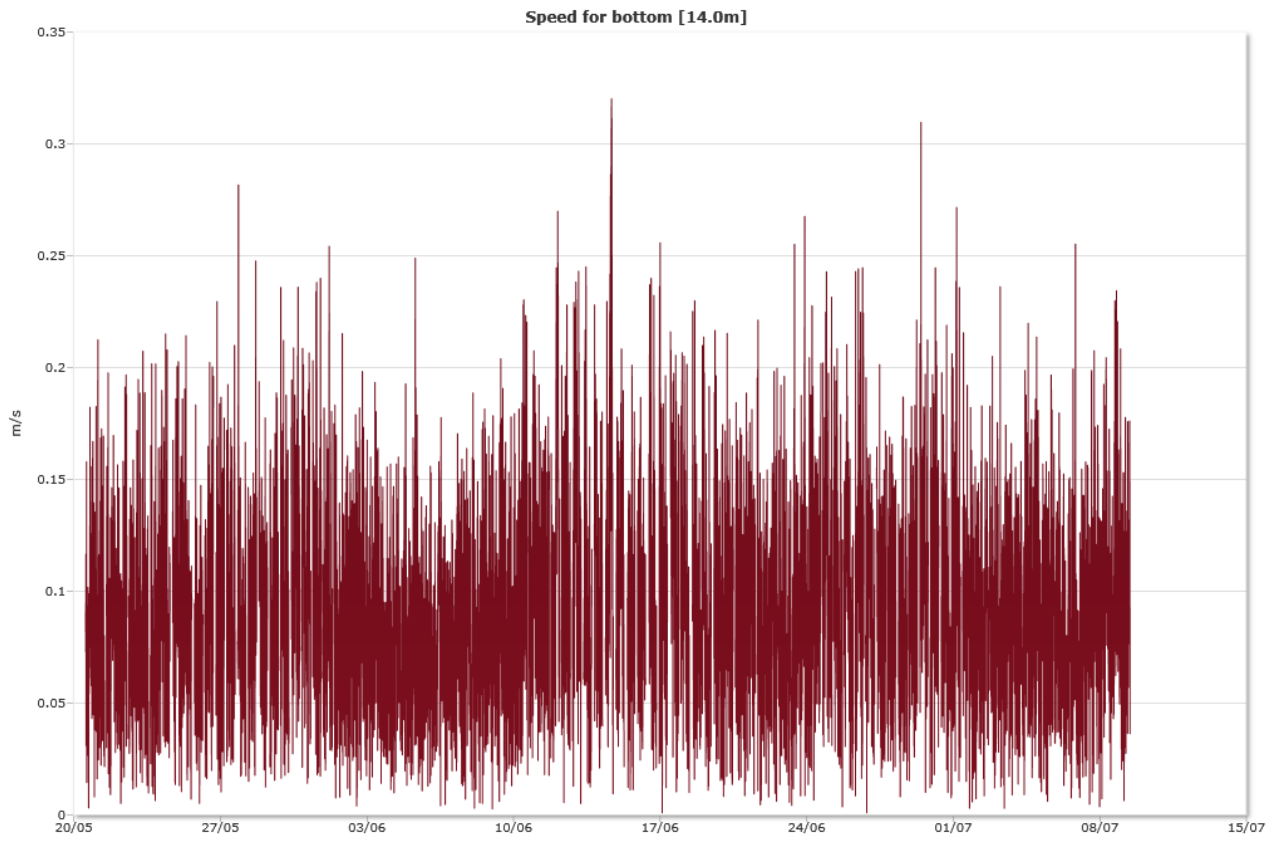
### Strøm 5 meters dyp



### Strøm 10 meters dyp



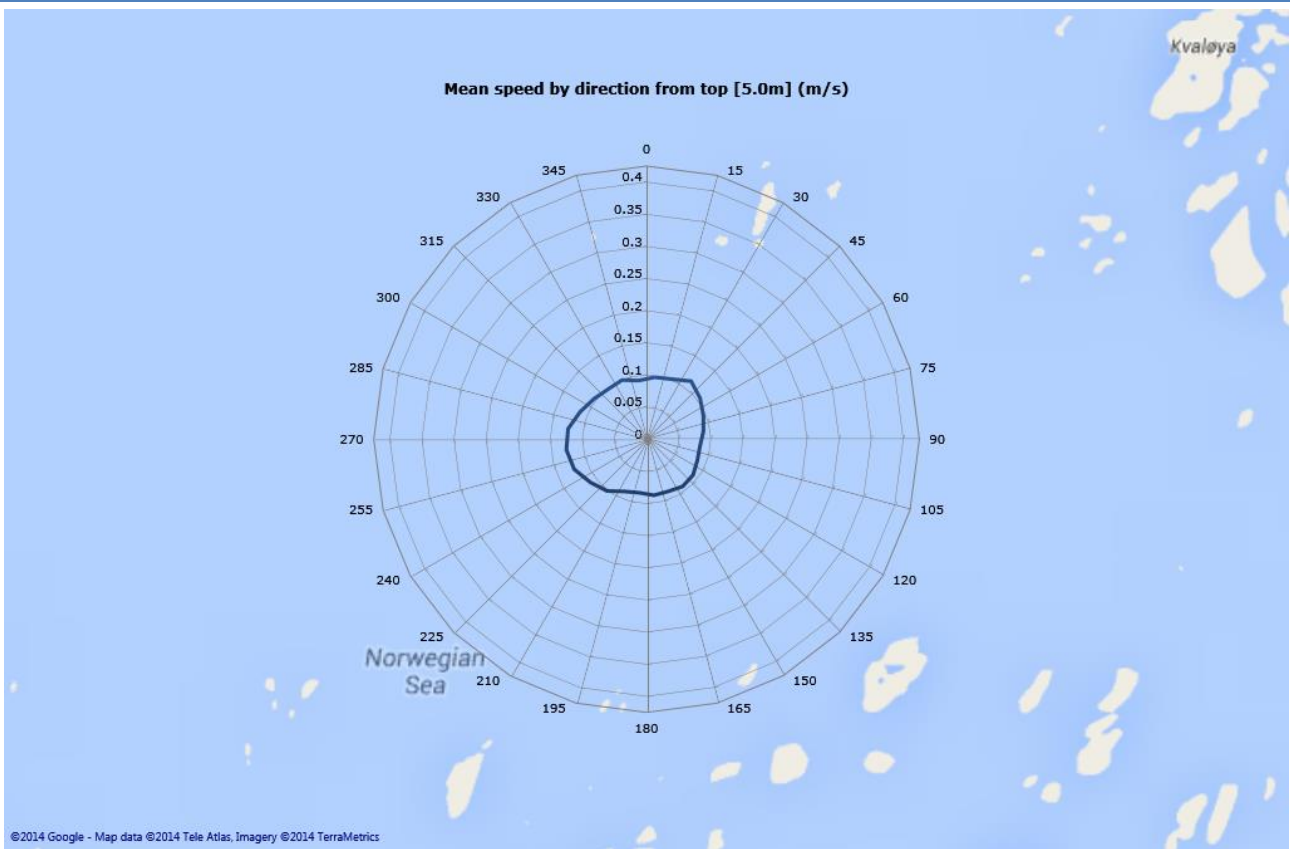
## Strøm 14 meters dyp



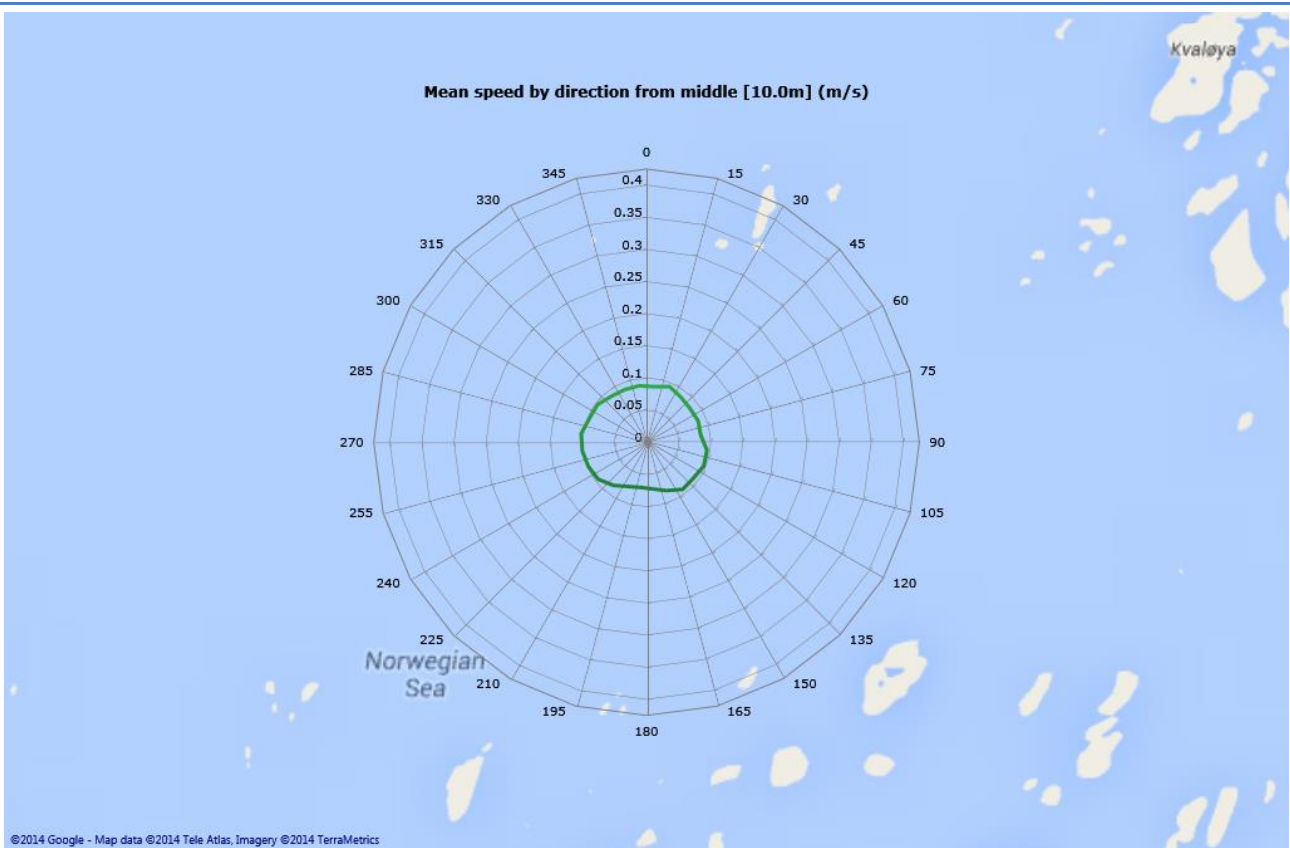


## Mean speed - roseplot

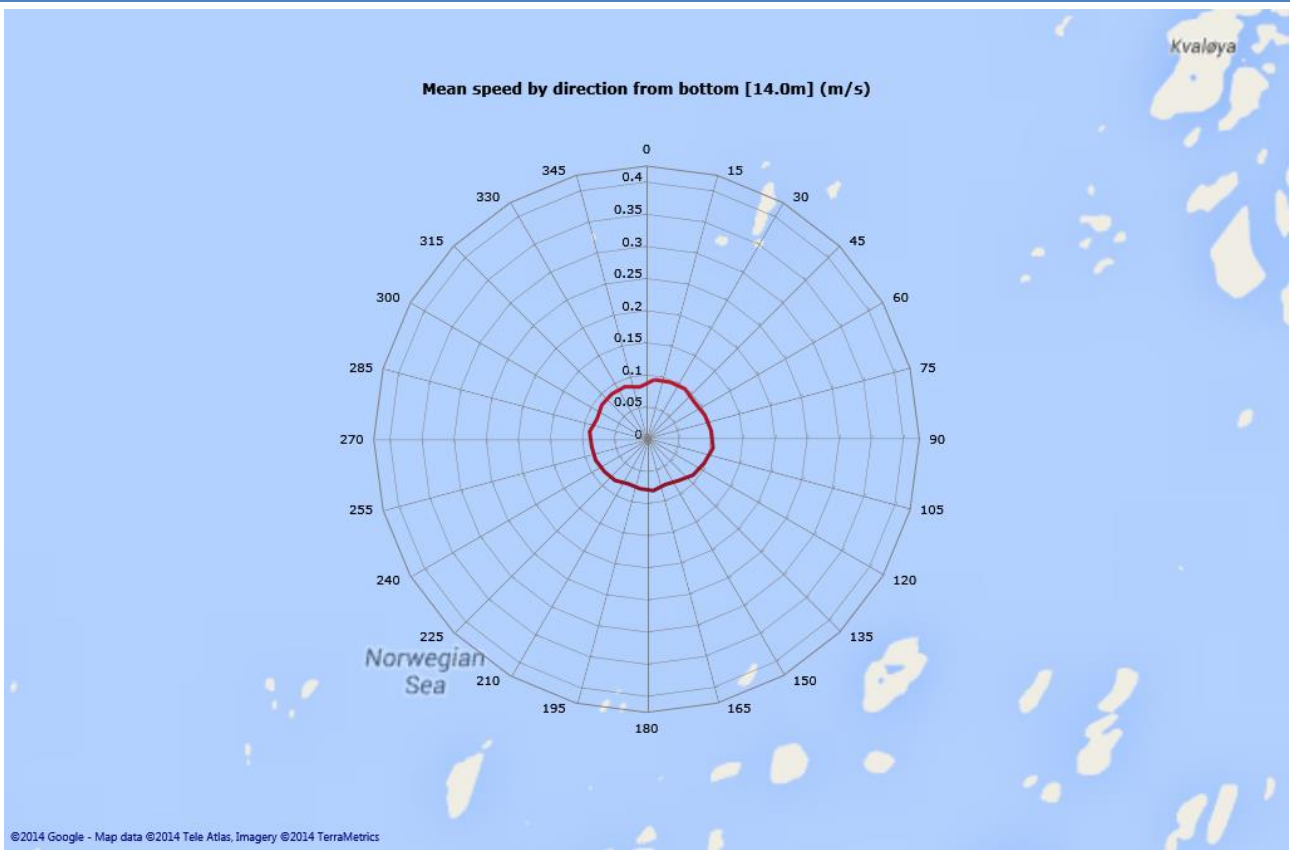
### Strøm 5 meters dyp



### Strøm 10 meters dyp

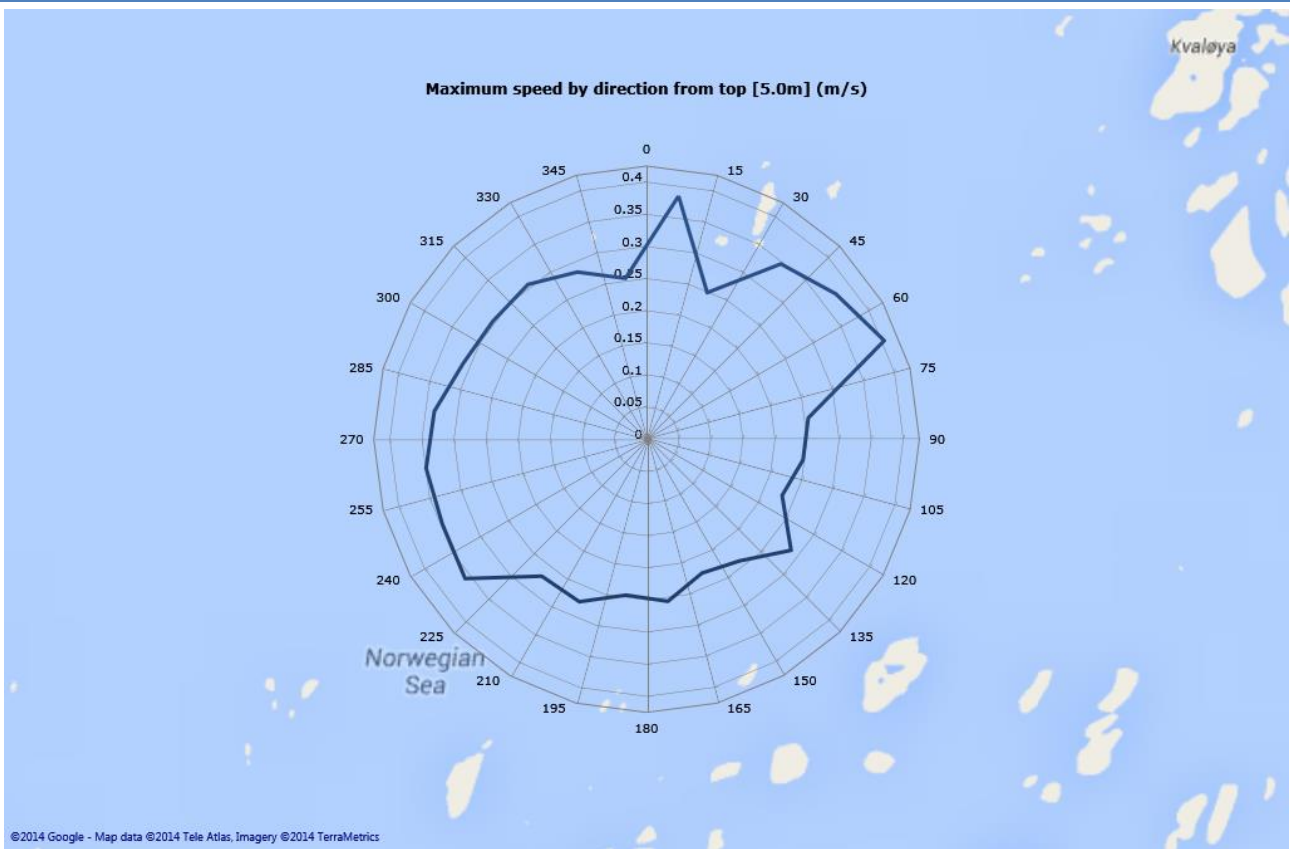


# Strøm 14 meters dyp

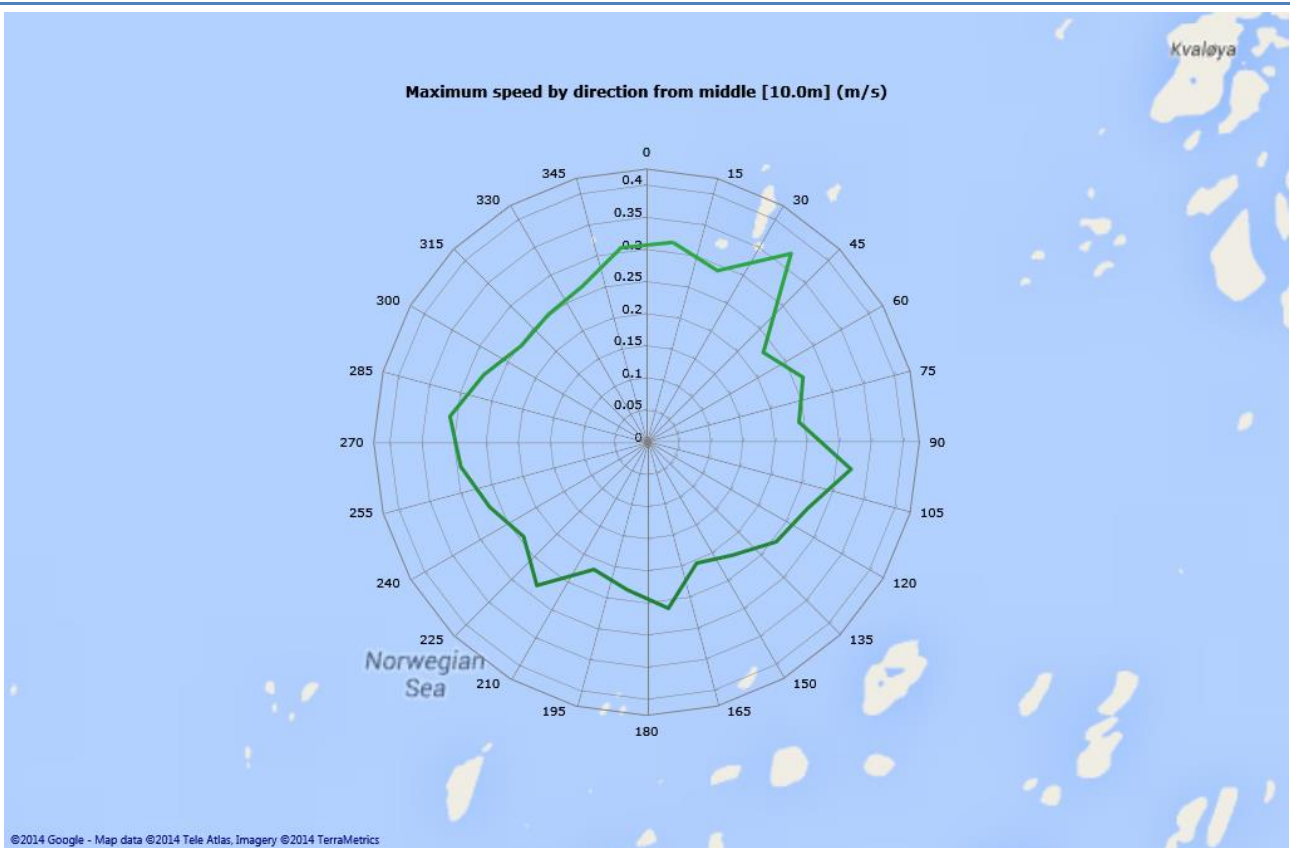


## Max speed - roseplot

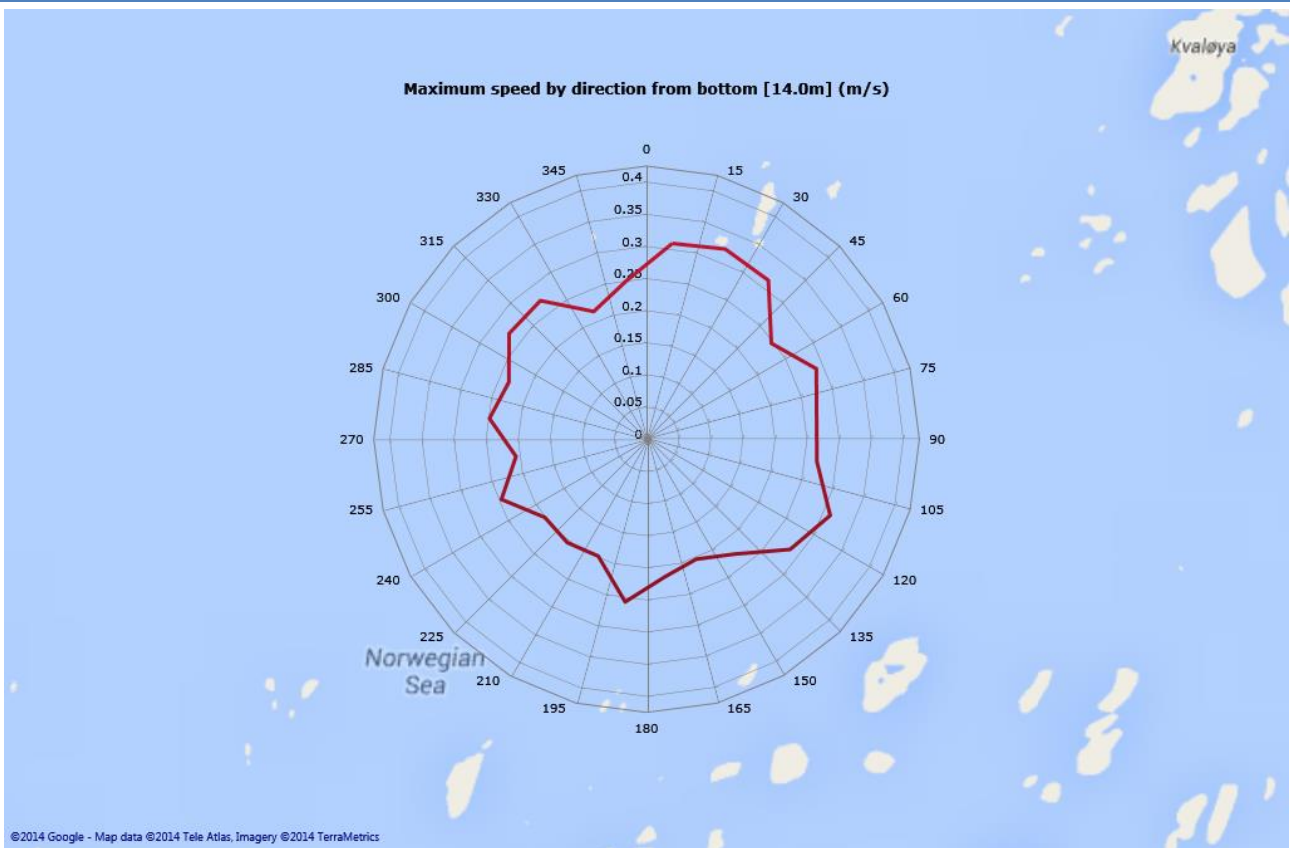
### Strøm 5 meters dyp



### Strøm 10 meters dyp

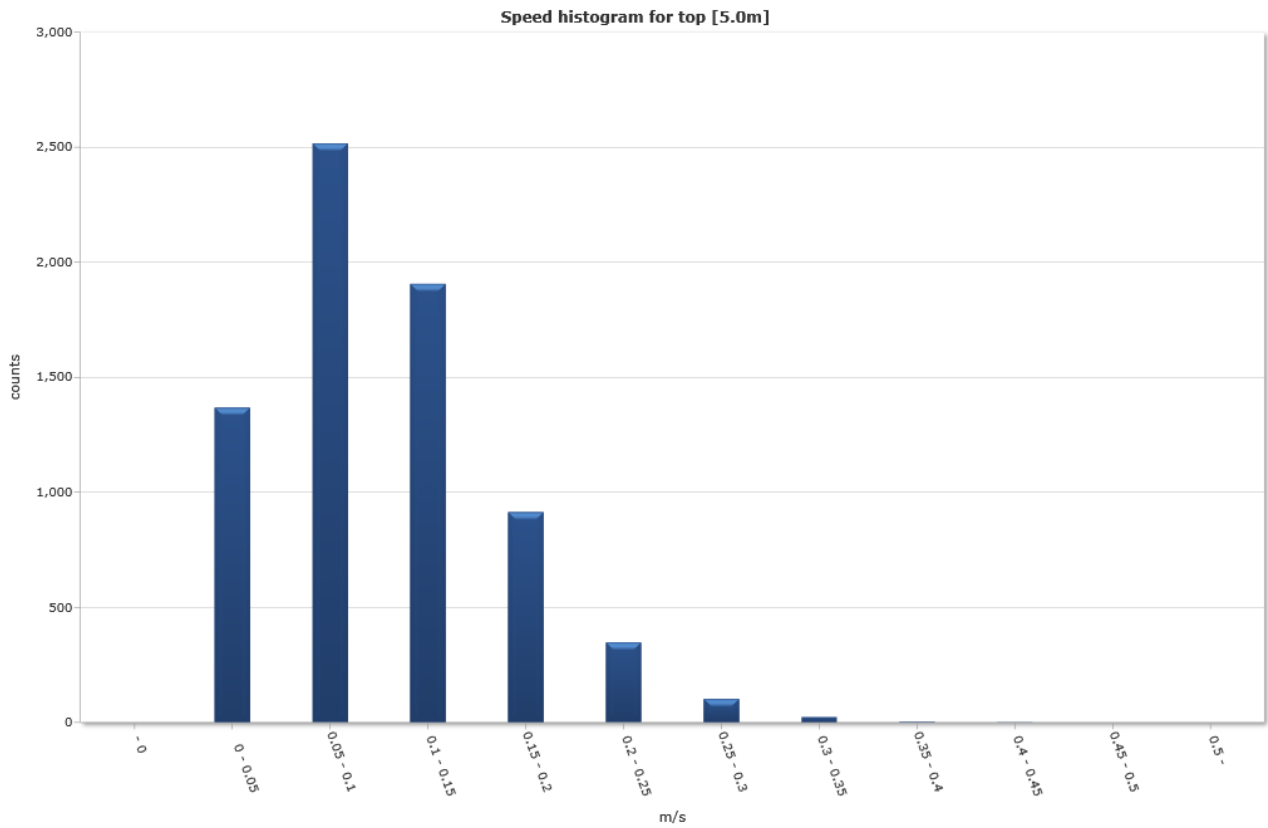


# Strøm 14 meters dyp

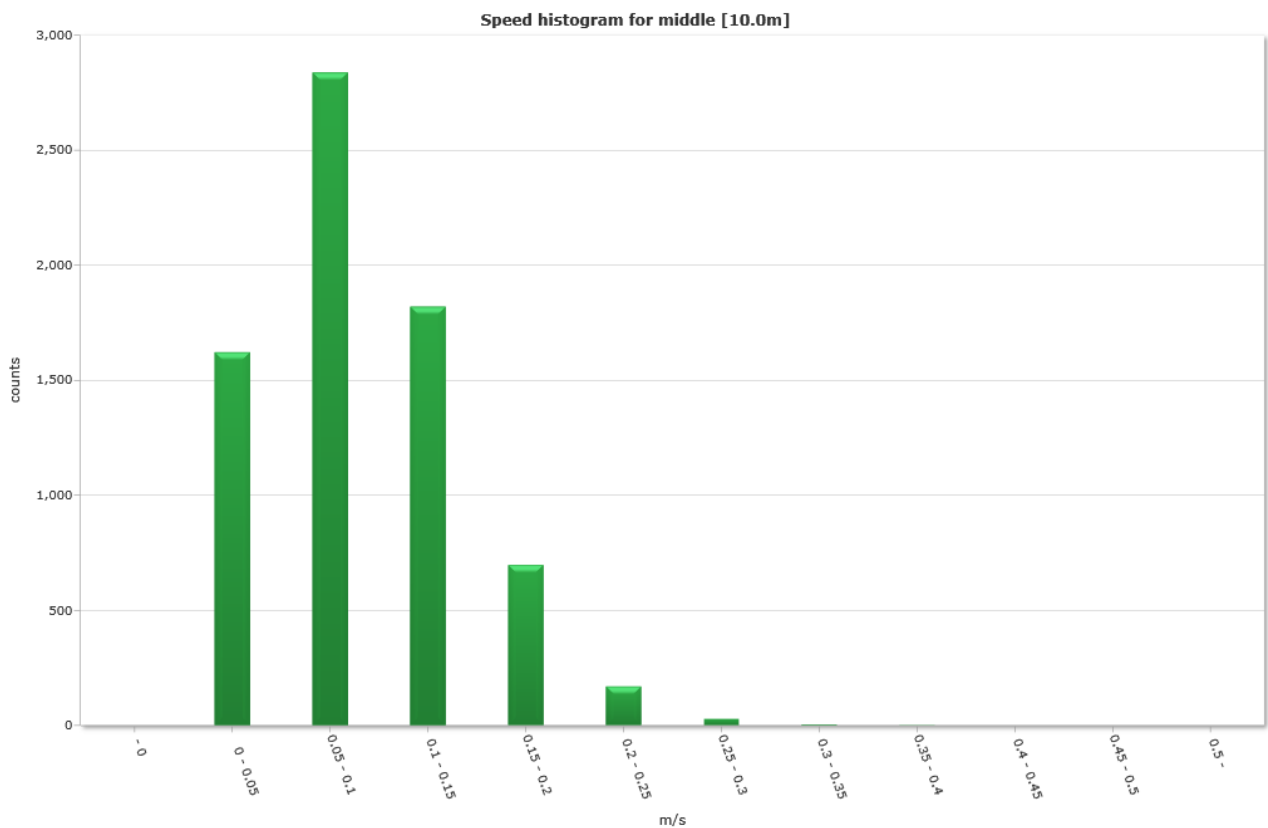


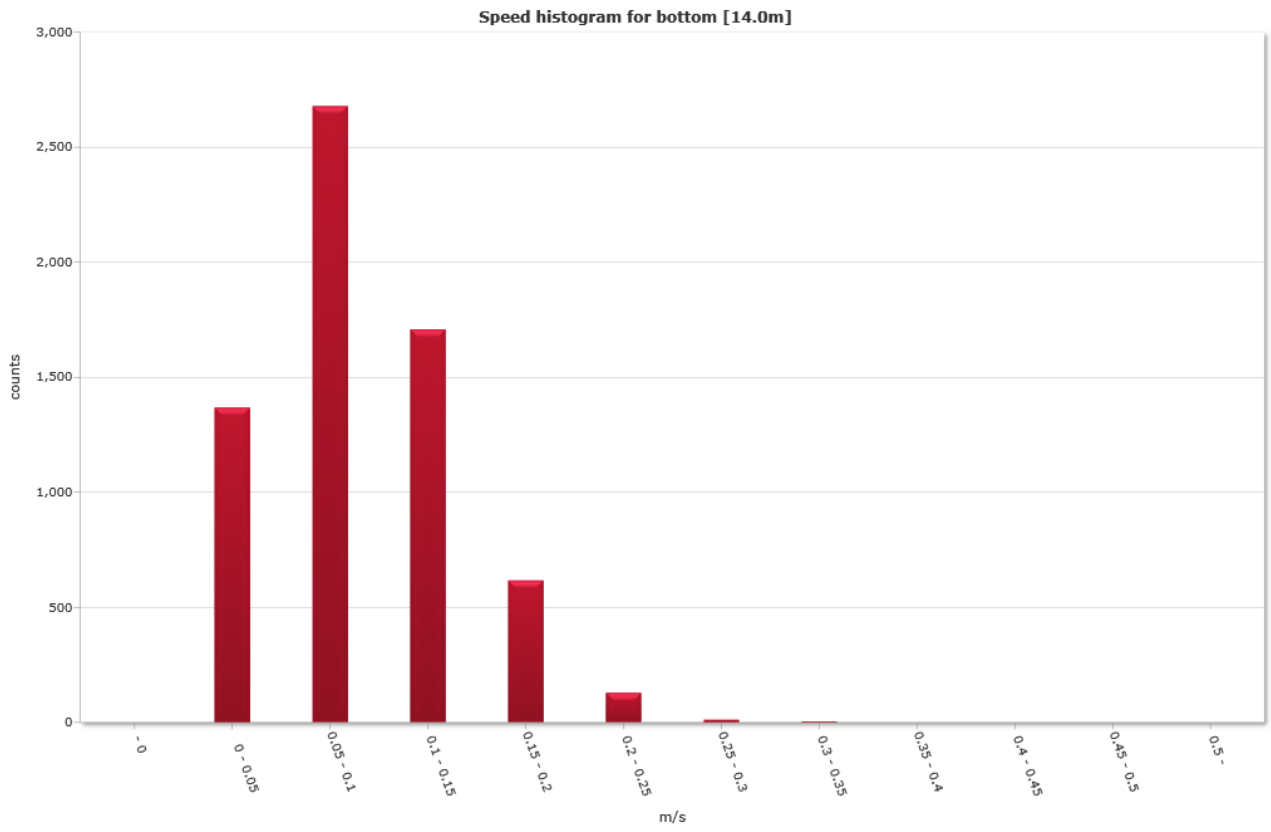
## Speed histogram

### Strøm 5 meters dyp



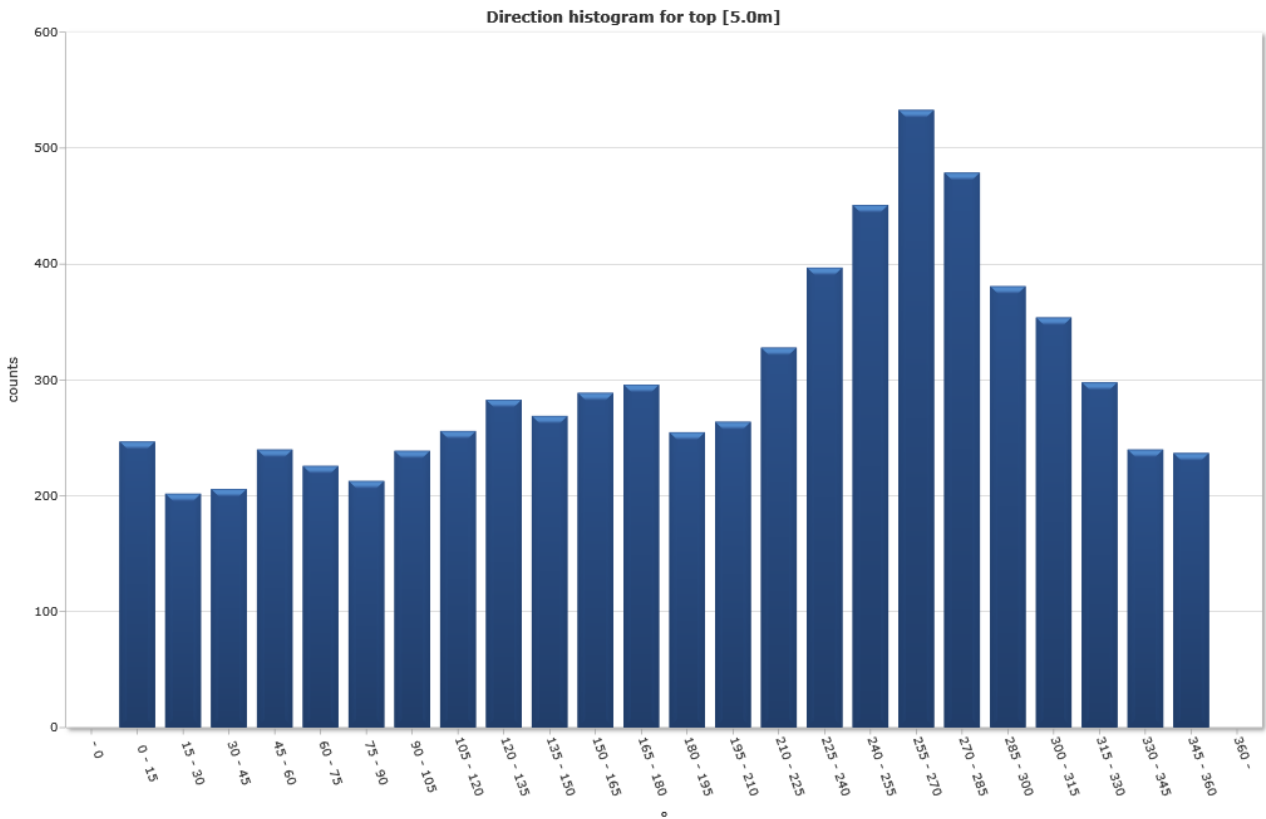
### Strøm 10 meters dyp



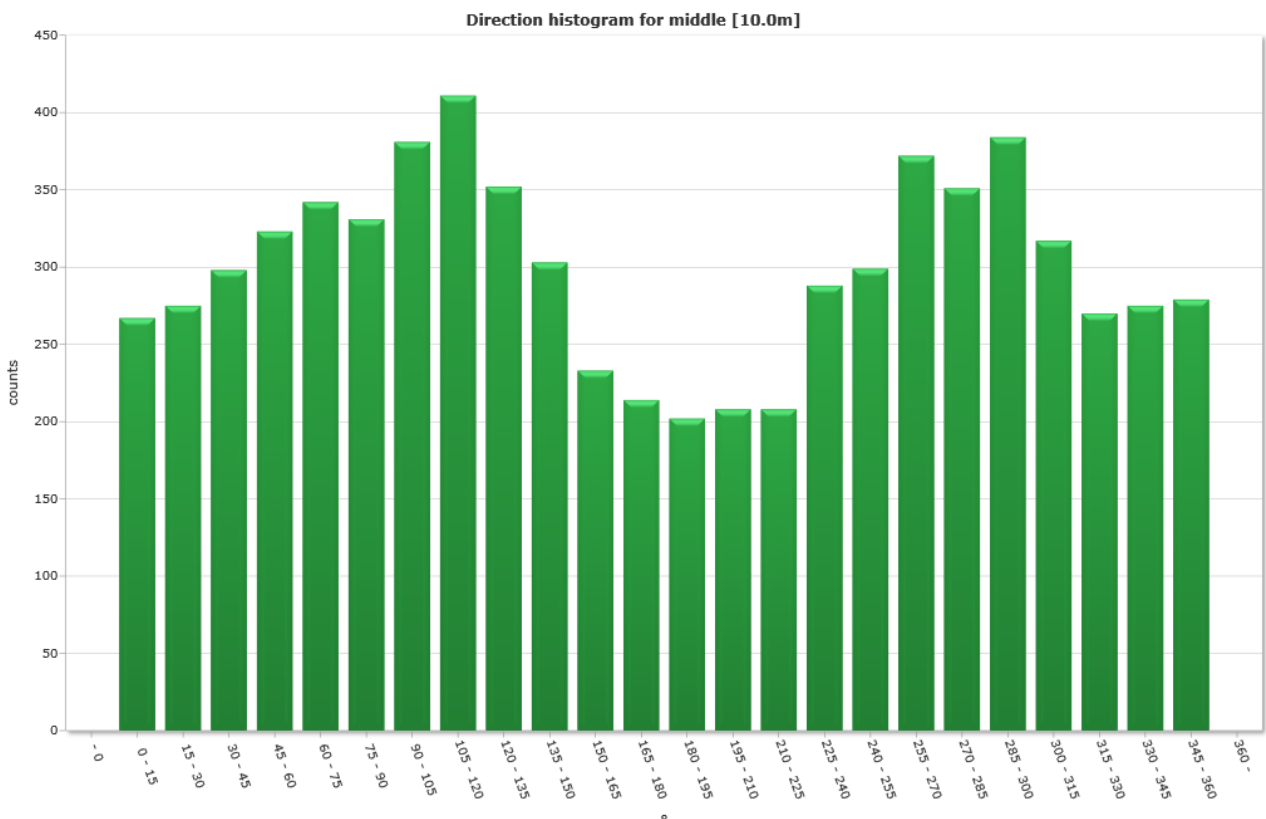


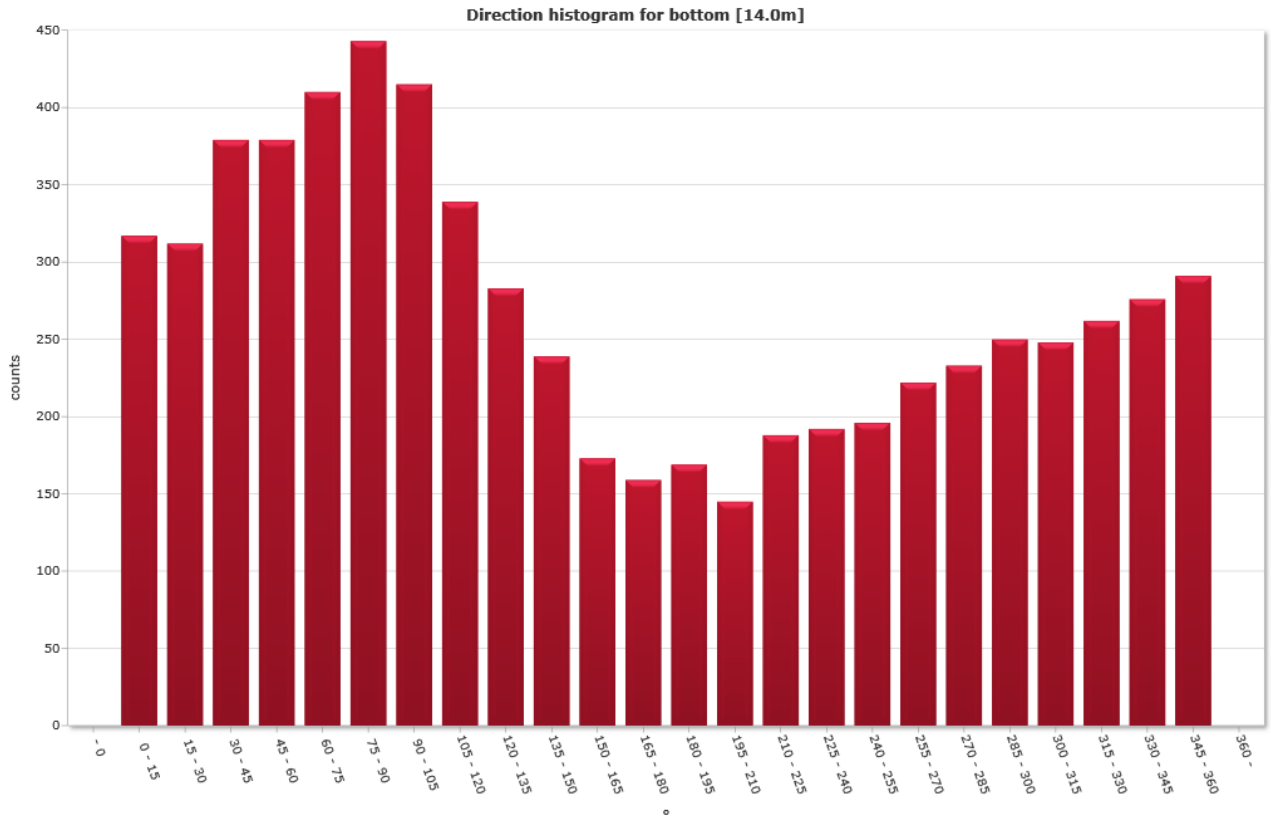
## Direction histogram

### Strøm 5 meters dyp



### Strøm 10 meters dyp







## Direction/Speed histogram

### Strøm 5 meters dyp

| •<br>m/s | Direction/speed matrix for top [5.0m] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |  | % | Sum |
|----------|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|--|---|-----|
|          | 15                                    | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 |       |       |  |   |     |
| 0.0      | 15                                    | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 | %     | Sum   |  |   |     |
| 0.05     | 53                                    | 34  | 32  | 44  | 55  | 53  | 63  | 63  | 61  | 61  | 67  | 55  | 66  | 59  | 61  | 62  | 62  | 69  | 63  | 53  | 72  | 63  | 42  | 55  | 19.0  | 1368  |  |   |     |
| 0.10     | 89                                    | 74  | 68  | 83  | 81  | 81  | 94  | 103 | 115 | 92  | 108 | 137 | 100 | 111 | 123 | 145 | 143 | 140 | 130 | 120 | 115 | 95  | 90  | 80  | 35.0  | 2517  |  |   |     |
| 0.15     | 68                                    | 59  | 51  | 61  | 56  | 49  | 61  | 63  | 71  | 80  | 94  | 75  | 65  | 68  | 83  | 97  | 101 | 140 | 129 | 113 | 96  | 86  | 69  | 71  | 26.5  | 1906  |  |   |     |
| 0.20     | 22                                    | 23  | 30  | 34  | 21  | 20  | 15  | 24  | 27  | 26  | 15  | 25  | 18  | 19  | 38  | 54  | 88  | 104 | 95  | 66  | 54  | 42  | 30  | 24  | 12.7  | 914   |  |   |     |
| 0.25     | 9                                     | 12  | 15  | 10  | 7   | 8   | 6   | 3   | 7   | 10  | 5   | 3   | 6   | 5   | 16  | 24  | 41  | 57  | 46  | 21  | 15  | 10  | 6   | 6   | 4.8   | 348   |  |   |     |
| 0.30     | 5                                     | 0   | 9   | 6   | 4   | 2   | 0   | 0   | 2   | 0   | 0   | 1   | 0   | 2   | 7   | 12  | 10  | 19  | 11  | 6   | 1   | 1   | 3   | 1   | 1.4   | 102   |  |   |     |
| 0.35     | 0                                     | 0   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 6   | 4   | 5   | 2   | 1   | 1   | 0   | 0   | 0.3   | 24    |  |   |     |
| 0.40     | 1                                     | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 3     |  |   |     |
| 0.45     | 0                                     | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 1     |  |   |     |
| 0.50     | 0                                     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |  |   |     |
| %        | 3.4                                   | 2.8 | 2.9 | 3.3 | 3.1 | 3.0 | 3.3 | 3.6 | 3.9 | 3.7 | 4.0 | 4.1 | 3.6 | 3.7 | 4.6 | 5.5 | 6.3 | 7.4 | 6.7 | 5.3 | 4.9 | 4.1 | 3.3 | 3.3 | 100.0 | 100.0 |  |   |     |
| Sum      | 247                                   | 202 | 206 | 240 | 226 | 213 | 239 | 256 | 283 | 269 | 289 | 296 | 255 | 264 | 328 | 397 | 451 | 533 | 479 | 381 | 354 | 298 | 240 | 237 | 100.0 | 7183  |  |   |     |

### Strøm 10 meters dyp

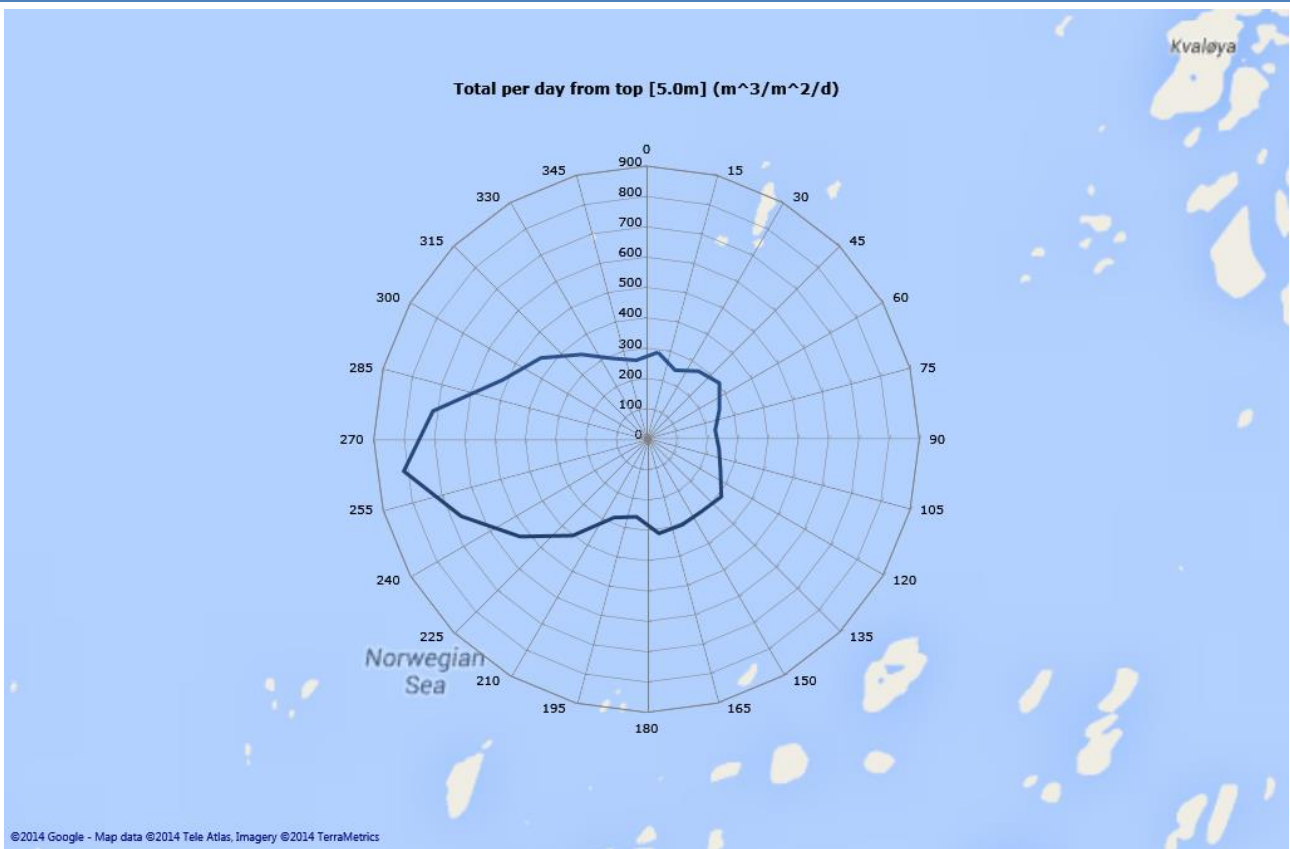
| •<br>m/s | Direction/speed matrix for middle [10.0m] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |  | % | Sum |
|----------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|--|---|-----|
|          | 15  | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 |       |       |  |   |     |
| 0.0      | 15  | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 | %     | Sum   |  |   |     |
| 0.05     | 66  | 60  | 81  | 78  | 78  | 77  | 70  | 77  | 75  | 58  | 64  | 63  | 66  | 66  | 62  | 52  | 57  | 68  | 70  | 78  | 59  | 66  | 58  | 73  | 22.6  | 1622  |  |   |     |
| 0.10     | 115                                       | 109 | 110 | 132 | 146 | 147 | 150 | 163 | 143 | 123 | 102 | 102 | 95  | 93  | 72  | 108 | 107 | 136 | 116 | 130 | 114 | 99  | 123 | 103 | 39.5  | 2838  |  |   |     |
| 0.15     | 63  | 70  | 71  | 77  | 85  | 77  | 116 | 103 | 87  | 83  | 50  | 40  | 31  | 36  | 48  | 90  | 87  | 92  | 94  | 115 | 98  | 70  | 67  | 70  | 25.3  | 1820  |  |   |     |
| 0.20     | 15  | 23  | 26  | 29  | 24  | 24  | 35  | 56  | 39  | 32  | 16  | 7   | 9   | 9   | 25  | 32  | 35  | 59  | 50  | 52  | 35  | 25  | 19  | 22  | 9.7   | 698   |  |   |     |
| 0.25     | 6   | 9   | 6   | 7   | 7   | 6   | 9   | 10  | 7   | 7   | 1   | 1   | 1   | 4   | 0   | 6   | 12  | 12  | 16  | 8   | 11  | 9   | 6   | 9   | 2.4   | 170   |  |   |     |
| 0.30     | 1   | 4   | 3   | 0   | 2   | 0   | 0   | 2   | 1   | 0   | 0   | 1   | 0   | 0   | 1   | 0   | 1   | 5   | 4   | 1   | 0   | 1   | 2   | 1   | 0.4   | 30    |  |   |     |
| 0.35     | 1   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 1   | 0.1   | 4     |  |   |     |
| 0.40     | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 1     |  |   |     |
| 0.45     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |  |   |     |
| 0.50     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |  |   |     |
| %        | 3.7                                       | 3.8 | 4.1 | 4.5 | 4.8 | 4.6 | 5.3 | 5.7 | 4.9 | 4.2 | 3.2 | 3.0 | 2.8 | 2.9 | 2.9 | 4.0 | 4.2 | 5.2 | 4.9 | 5.3 | 4.4 | 3.8 | 3.8 | 3.9 | 100.0 | 100.0 |  |   |     |
| Sum      | 267                                       | 275 | 298 | 323 | 342 | 331 | 381 | 411 | 352 | 303 | 233 | 214 | 202 | 208 | 208 | 288 | 299 | 372 | 351 | 384 | 317 | 270 | 275 | 279 | 100.0 | 7183  |  |   |     |

## Strøm 14 meters dyp

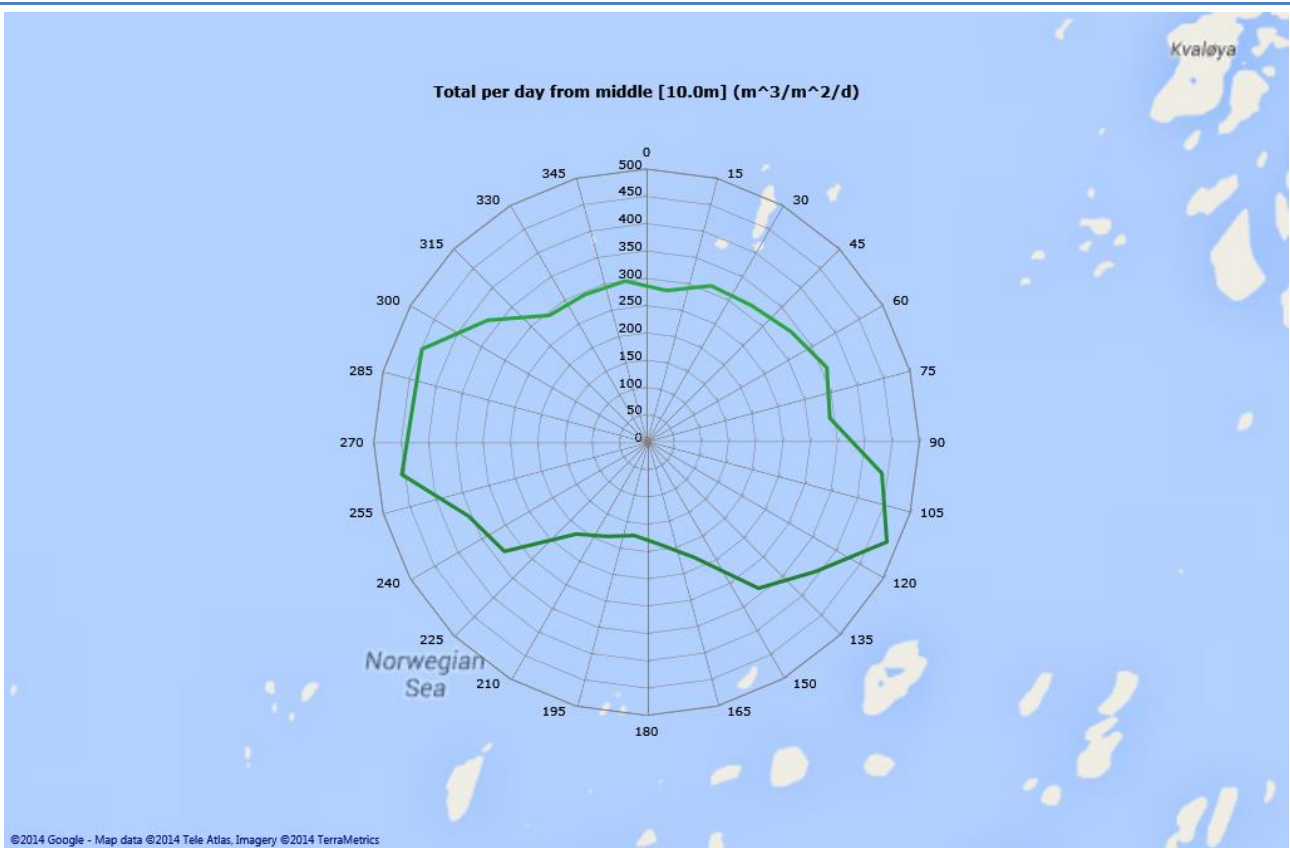
| m/s  | Direction/speed matrix for bottom [14.0m] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       | %     | Sum |
|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-----|
|      | 15  | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 |       |       |     |
| 0.0  |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |     |
| 0.05 | 57  | 57  | 59  | 71  | 64  | 62  | 63  | 63  | 59  | 67  | 51  | 41  | 50  | 45  | 51  | 45  | 52  | 50  | 55  | 57  | 63  | 55  | 60  | 71  | 21.0  | 1368  |     |
| 0.10 | 135                                       | 122 | 158 | 144 | 164 | 169 | 151 | 127 | 110 | 95  | 84  | 75  | 71  | 62  | 79  | 88  | 79  | 89  | 96  | 110 | 97  | 121 | 113 | 140 | 41.1  | 2679  |     |
| 0.15 | 83  | 97  | 104 | 120 | 119 | 133 | 124 | 101 | 73  | 57  | 24  | 30  | 36  | 34  | 44  | 39  | 46  | 65  | 53  | 66  | 63  | 59  | 77  | 62  | 26.2  | 1709  |     |
| 0.20 | 33  | 29  | 45  | 35  | 50  | 68  | 56  | 38  | 36  | 17  | 13  | 11  | 11  | 4   | 12  | 20  | 17  | 15  | 23  | 15  | 17  | 17  | 23  | 13  | 9.5   | 618   |     |
| 0.25 | 8   | 5   | 10  | 9   | 11  | 10  | 20  | 8   | 4   | 3   | 1   | 2   | 0   | 0   | 2   | 0   | 2   | 3   | 6   | 2   | 7   | 8   | 3   | 5   | 2.0   | 129   |     |
| 0.30 | 0   | 0   | 2   | 0   | 2   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 2   | 0   | 0   | 0.2   | 12    |     |
| 0.35 | 1   | 2   | 1   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.1   | 5     |     |
| 0.40 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |     |
| 0.45 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |     |
| 0.50 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0.0   | 0     |     |
| %    | 4.9                                       | 4.8 | 5.8 | 5.8 | 6.3 | 6.8 | 6.4 | 5.2 | 4.3 | 3.7 | 2.7 | 2.4 | 2.6 | 2.2 | 2.9 | 2.9 | 3.0 | 3.4 | 3.6 | 3.8 | 3.8 | 4.0 | 4.2 | 4.5 | 100.0 | 100.0 |     |
| Sum  | 317                                       | 312 | 379 | 379 | 410 | 443 | 415 | 339 | 283 | 239 | 173 | 159 | 169 | 145 | 188 | 192 | 196 | 222 | 233 | 250 | 248 | 262 | 276 | 291 | 100.0 | 6520  |     |

# Flow

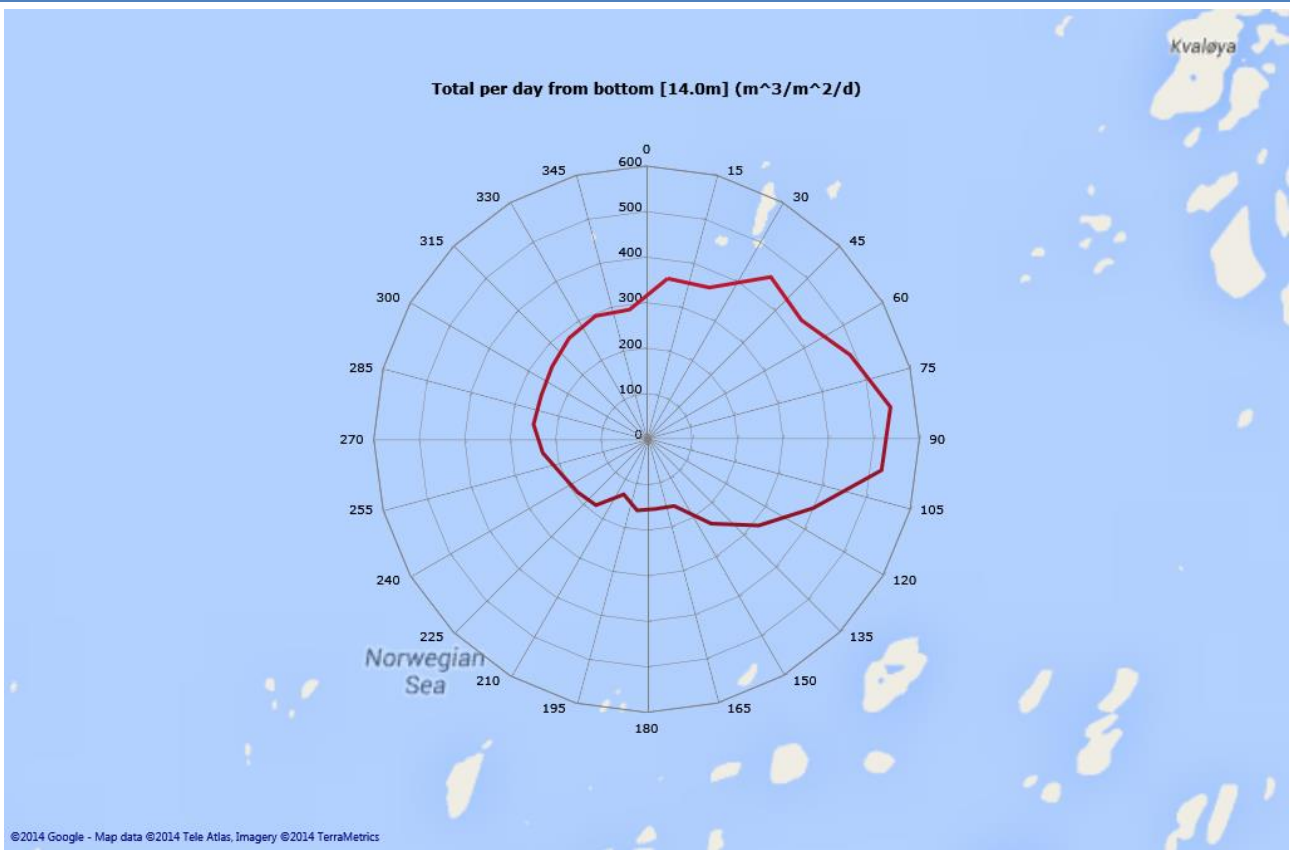
## Strøm 5 meters dyp



## Strøm 10 meters dyp

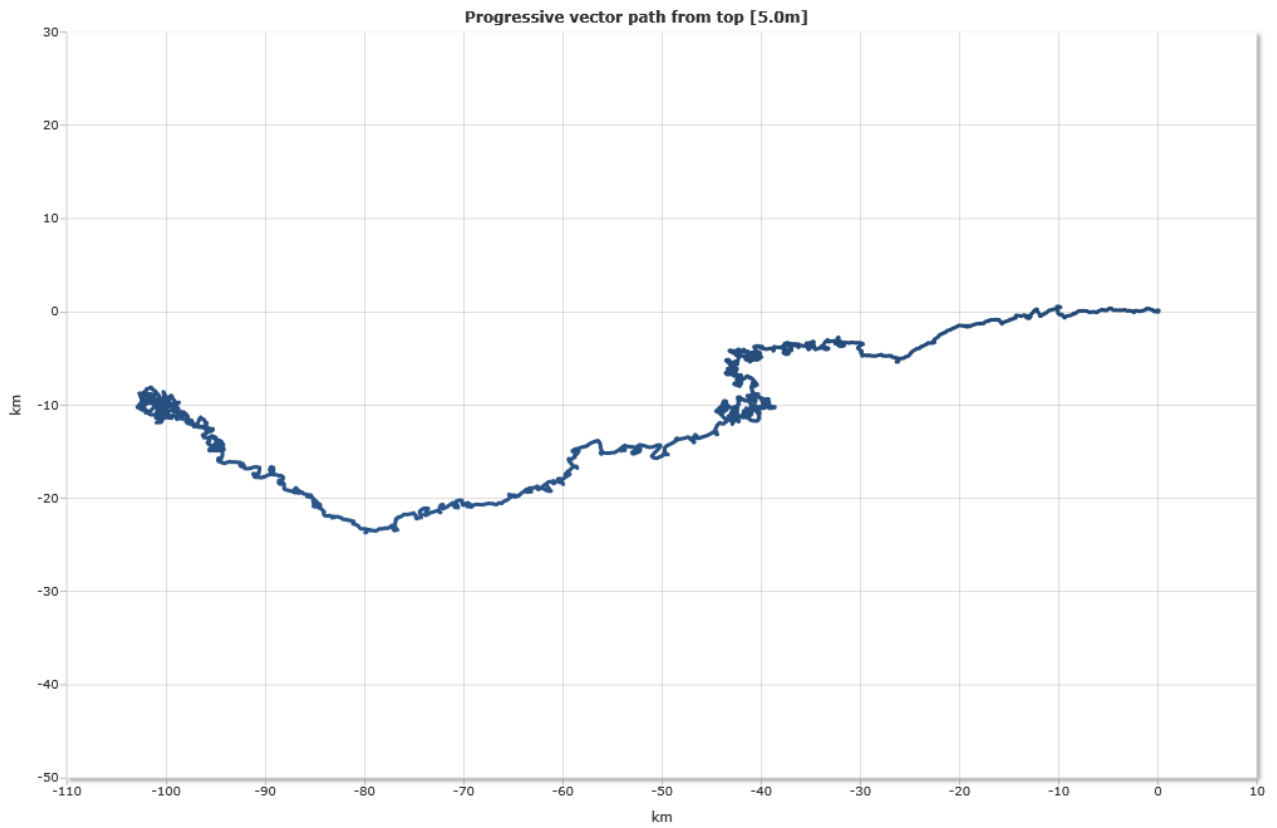


# Strøm 14 meters dyp

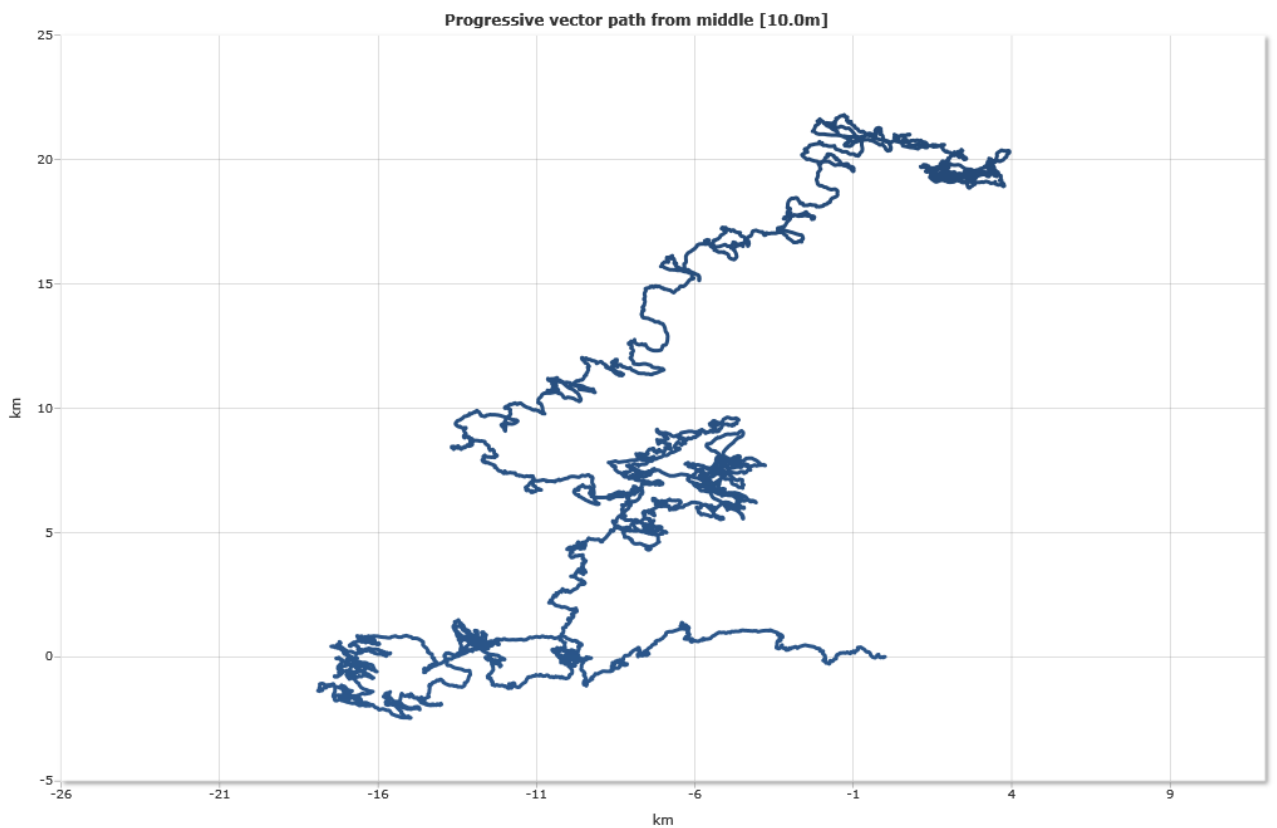


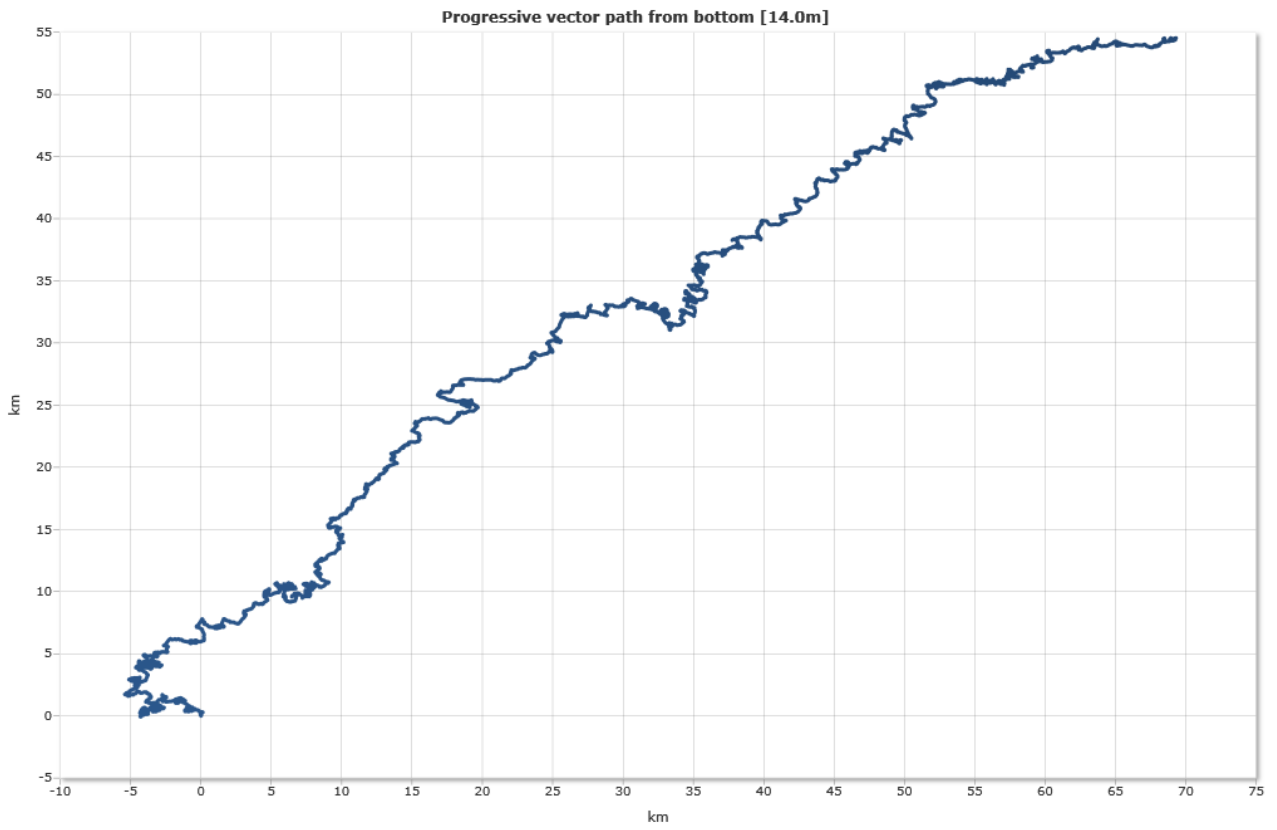
## Progressive vector

### Strøm 5 meters dyp



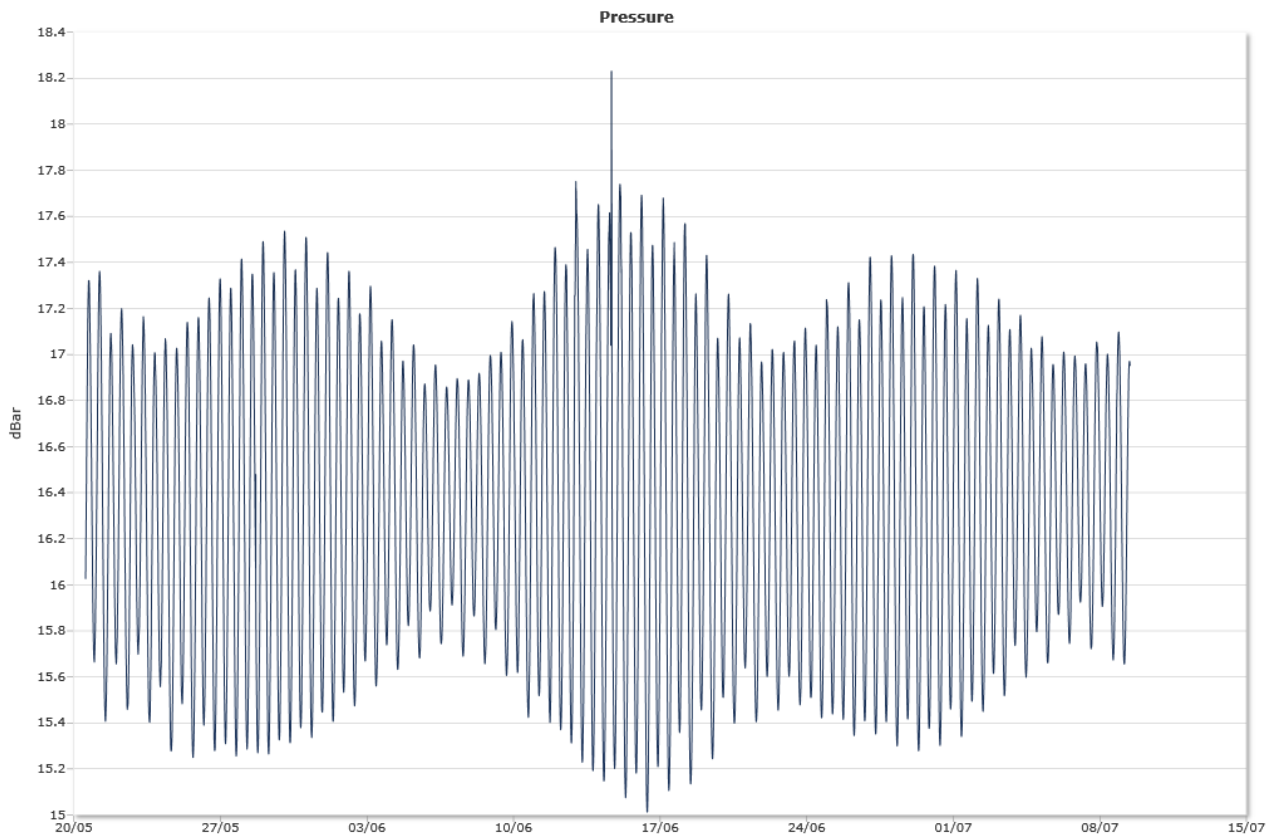
### Strøm 10 meters dyp



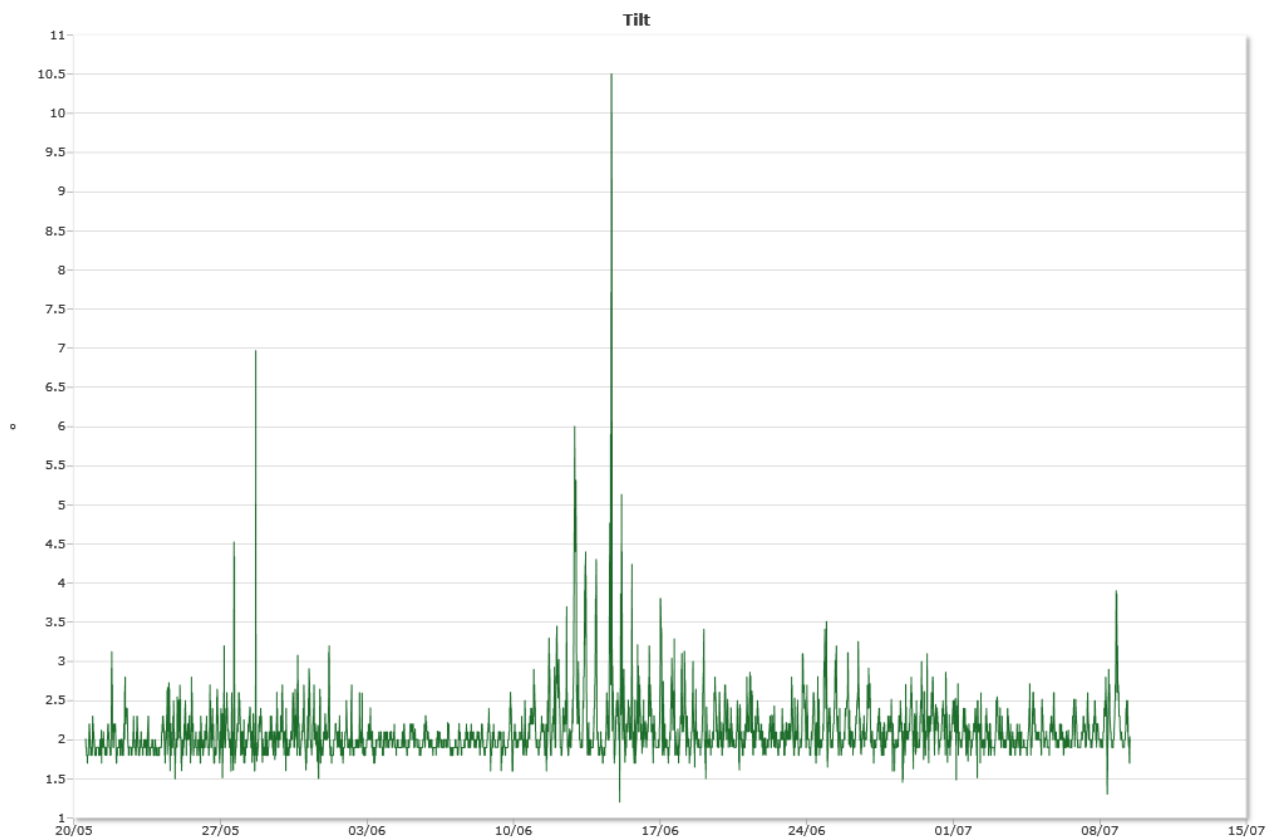


## Sensors

### Pressure



### Tilt



## Temperatur på 16 meters dyp

