

REPORT

**Vlaamse Overheid - Departement
Mobiliteit en Openbare Werken**

Afdeling Maritieme Toegang

**Evaluation of the external effects on
the siltation in Deurganckdok**

Report 1.5: Overview of boundary conditions in
the river Scheldt April 2010 – March 2011

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Colophon

International Marine & Dredging Consultants

Address: Coveliersstraat 15, 2600 Antwerp, Belgium

: + 32 3 270 92 95

: + 32 3 235 67 11

Email: info@imdc.be

Website: www.imdc.be

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1. INTRODUCTION

1.1 THE ASSIGNMENT

This report is part of a set of reports concerning the project 'Evaluation of the external effects on the siltation in Deurganckdok'. The terms of reference were prepared by 'Departement Mobiliteit en Openbare Werken van de Vlaamse Overheid, Afdeling Maritieme Toegang (16EF/2009/14)'. The study was awarded to International Marine and Dredging Consultants NV in association with Deltares and Gems International on 8 December 2009.

This study is a follow-up study on the study 'Opvolging aanslibbing Deurganckdok' that ran from January 2006 till March 2009.

Waterbouwkundig Laboratorium– Cel Hydrometrie Schelde provided data on discharge, tide, salinity and turbidity along the river Scheldt and provided survey vessels for the long term and through tide measurements. Afdeling Maritieme Toegang provided maintenance dredging data. Agentschap voor Maritieme Dienstverlening en Kust – Afdeling Kust provided depth sounding measurements.

1.2 AIM OF THE STUDY

The purpose of this study entails evaluating the external effects on the siltation in the Deurganckdok. External effects are those effects caused by recent or near-future human operations near Deurganckdok:

- The construction of the Current Deflecting Wall downstream of the entrance of the Deurganckdok.
- The deepening and widening of the navigational channel in the Lower Sea Scheldt between the entrance of the Deurganckdok and the access channels to the locks of Zandvliet-Berendrecht.
- The deepening of the entrance to the Deurganckdok by removing the sill at the entrance.

1.3 OVERVIEW OF THE STUDY

This study constitutes of 3 parts:

- Reporting and analysis of existing documents and measurement data
- Execution of specific measurement campaigns to map the siltation and its environmental factors.
- Support in numerical modelling efforts

Reports of the project 'Evaluation of the external effects on the siltation in the Deurganckdok' are summarized in Table 1-1.

Table 1-1: Overview of the External Effects Deurganckdok Reports

Report	Description
I.	Reporting
	I.1 Annual Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities
1.1	Annual Sediment Balance: year 1: 1/4/2009-31/3/2010 (I/RA/11354/10.067/NZI)
1.2	Annual Sediment Balance: year 2: 1/4/2010-31/3/2011 (I/RA/11354/10.100/MBO/ANF)
1.3	Annual Sediment Balance: year 3: 1/4/2011-31/3/2012 (I/RA/11354/10.101/MBO/ANF)
	I.2 Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels
1.4	Boundary Conditions year 1: 01/04/2009 – 31/3/2010 (I/RA/11354/10.102/MBO/ANF)
1.5	Boundary Conditions year 2: 01/04/2010 – 31/3/2011 (I/RA/11354/10.103/MBO/ANF)
1.6	Boundary Conditions year 3: 01/04/2011 – 31/3/2012 (I/RA/11354/10.104/MBO/ANF)
	I.3 Synthesis of CDW research
1.7	Synthesis report of research on Current Deflecting Wall (I/RA/11354/10.063/MBO)
	I.4 Analysis: evaluation of external effects on siltation in Deurganckdok
1.8	Analysis of external effects on siltation processes and factors (I/RA/11354/10.105/MBO/ANF)
II.	Measurement campaigns: Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) & Frame measurements, Through tide measurements (SiltProfiling & ADCP) & Calibrations
	II.1 Through tide measurements fixed transects
2.1	Through tide Sediview measurement: Entrance DGD during spring tide Autumn 2011 (I/RA/11354/10.106/MBO/ANF)
2.2	Through tide Sediview measurement: Entrance DGD during neap tide Autumn 2011 (I/RA/11354/10.107/MBO/ANF)
2.3	Through tide Sediview measurement: Entrance DGD during spring tide Winter 2012 (I/RA/11354/10.108/MBO/ANF)
2.4	Through tide Sediview measurement: Entrance DGD during neap tide Winter 2012 (I/RA/11354/10.109/MBO/ANF)
	II.2 Through tide measurements eddy currents
2.5 ²	Through tide measurements: Eddy Currents DGD 02/03/2010 (I/RA/11283/10.051/MSA)
2.6	Through tide measurements: Eddy Currents DGD Autumn I/RA/11354/10.110/MBO/ANF)
2.7	Through tide measurements: Eddy Currents DGD Winter 2012 (I/RA/11354/10.111/MBO/ANF)
	II.3 Salt Silt Distribution entrance Deurganckdok
2.8 ³	Salt-Silt distribution Deurganckdok 1/4/2009-31/3/2010 (I/RA/11354/10.068/NZI)
2.9	Sal-Silt distribution Deurganckdok 1/6/2011-30/05/2012 (I/RA/11354/10.112/MBO/ANF)

Report Description	
II.4 Current Salt Silt Distribution CDW Deurganckdok	
2.10	Salt Silt & Current Distribution entrance Deurganckdok: frame measurements and through tide measurements: Autumn 2011 (I/RA/11354/11.131/BQU)
2.11	Salt Silt & Current Distribution entrance Deurganckdok: frame measurements and through tide measurements: Winter 2012 (I/RA/11354/10.114/MBO/ANF)
II.5 Quality Control instruments	
2.12	Calibration stationary & mobile equipment 16/03/2011 (I/RA/11354/10.113/MBO/ANF)
2.13	Calibration stationary equipment 2012 (I/RA/11354/12.011/JCA)

²: this report is part of the project Siltation Deurganckdok (11283)

³: this report contains report 2.35 of project Siltation Deurganckdok (I/RA/11283/09.085/MSA)

1.4 STRUCTURE OF THE REPORT

This report is the factual data report for two measurement actions during the period between April 2010 and March 2011:

- Monitoring salinity and sediment concentration in the Lower Sea Scheldt taken from on permanent data acquisition sites at Oosterweel, Prosperpolder and downstream (Buoy 84) of Deurganckdok.
- Monitoring dredging and dumping activities in the Lower Sea Scheldt.
- Beside these actions, navigation and meteorological conditions are also reported.

The first chapter comprises an introduction. The second chapter describes the project. Chapter 3 summarizes the measurement campaigns, while the ambient conditions are discussed in Chapter 4.

2. SEDIMENTATION IN DEURGANCKDOK

2.1 PROJECT AREA: DEURGANCKDOK

Deurganckdok is a tidal dock situated at the left bank in the Lower Sea Scheldt, between Liefkenshoek and Doel. Deurganckdok has the following characteristics:

1. the dock has a total length of 2750 m and is 450 m wide at the Scheldt end and 400 m wide at the inward end of the dock
2. The bottom of Deurganckdok is provided at a depth of -17m TAW in the transition zones between the quay walls and the central trench and of -19m TAW in the central trench.
3. the quay walls reach up to $+9\text{m TAW}$

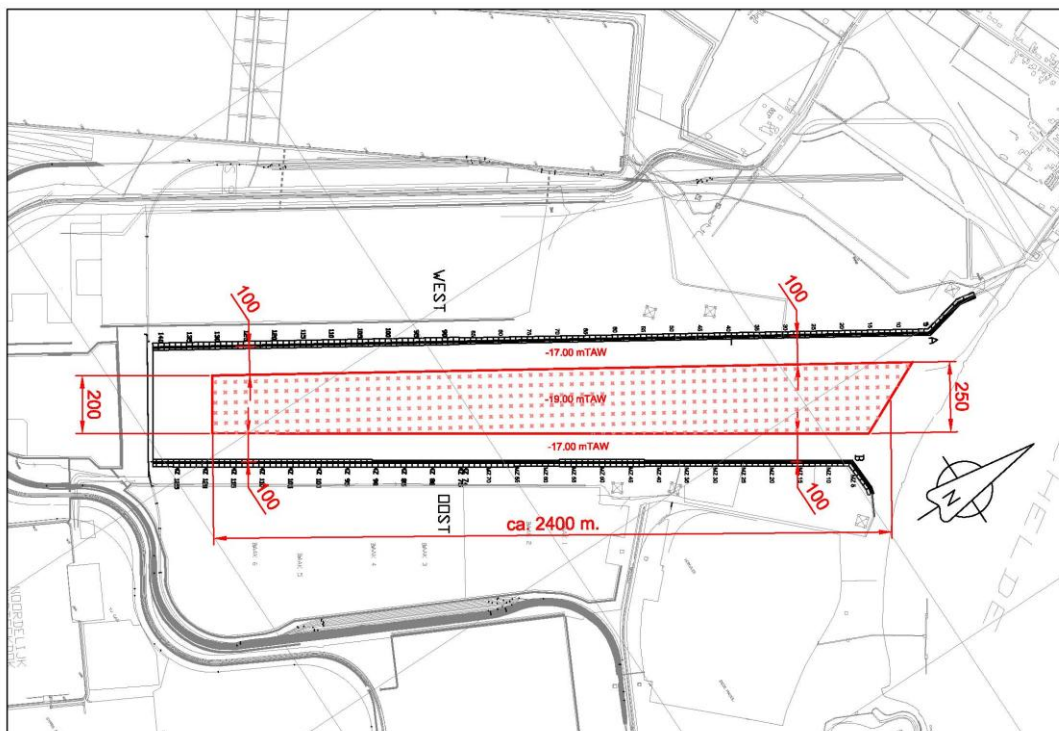


Figure 2-1: Overview of Deurganckdok

The dredging of the dock is performed in 3 phases. On 18 February 2005 the dike between the Scheldt and the Deurganckdok was breached. On 6 July 2005 Deurganckdok was officially opened. The second dredging phase was finalized a few weeks later. The first terminal operations have started since.

2.2 OVERVIEW OF THE STUDIED PARAMETERS

The first part of the study aims at determining a sediment balance of Deurganckdok and the net influx of sediment. The sediment balance comprises a number of sediment transport modes: deposition, influx from capital dredging works, internal replacement and removal of sediments due to maintenance dredging (Figure 2-1).

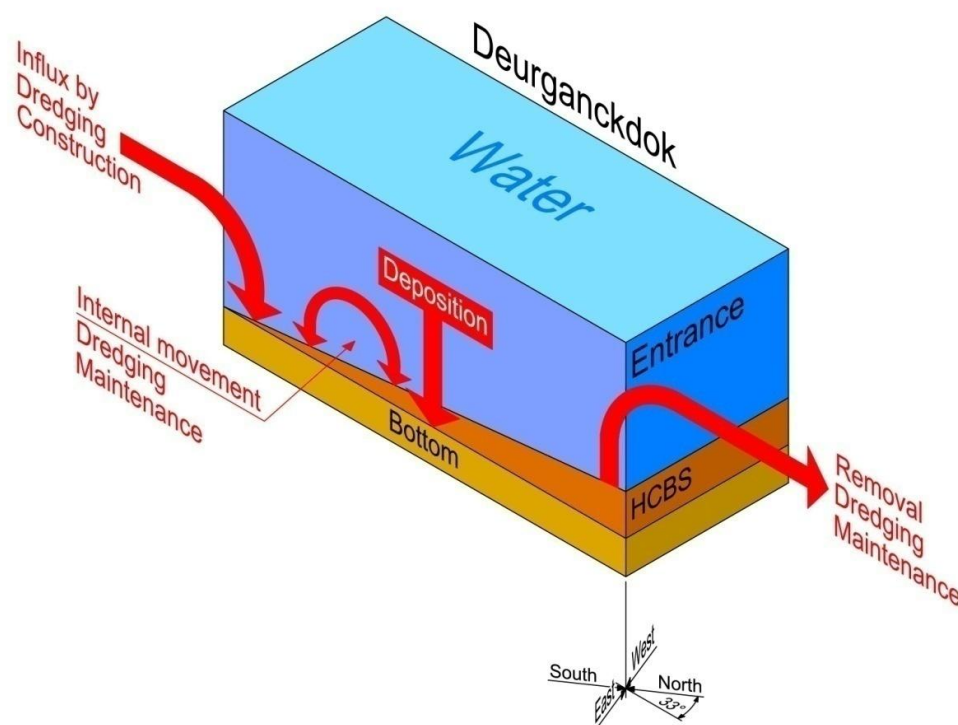


Figure 2-2: Elements of the sediment balance

A net deposition can be calculated from a comparison with a chosen initial condition t_0 (Figure 2-2). The mass of deposited sediment is determined from the integration of bed density profiles recorded at grid points covering the dock. Subtracting bed sediment mass at t_0 leads to the change in mass of sediments present in the dock (mass growth). Adding cumulated dry matter mass of dredged material removed since t_0 and subtracting any sediment influx due to capital dredging works leads to the total cumulated mass entered from the river Scheldt since t_0 .

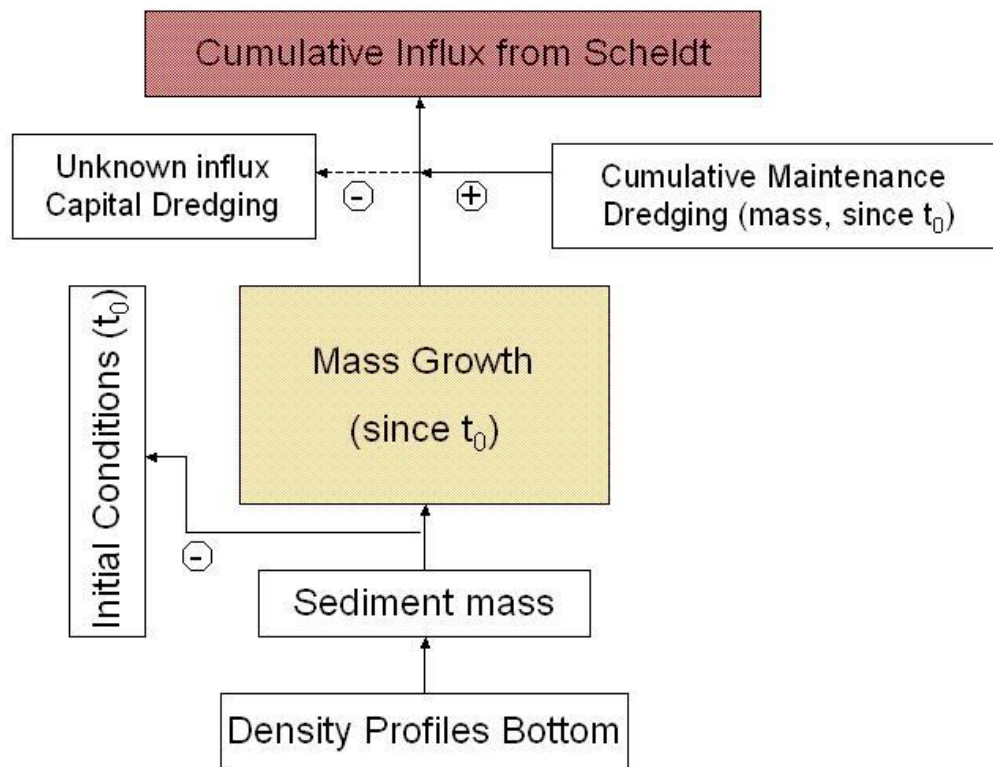


Figure 2-3: Determining a sediment balance

The main purpose of the second part of the study is to gain insight in the mechanisms causing siltation in Deurganckdok. The following mechanisms will be aimed at in this part of the study:

- Tidal prism, i.e. the extra volume in a water body due to high tide
- Vortex patterns due to passing tidal current
- Density currents due to salt gradient between the Scheldt river and the dock
- Density currents due to highly concentrated benthic suspensions

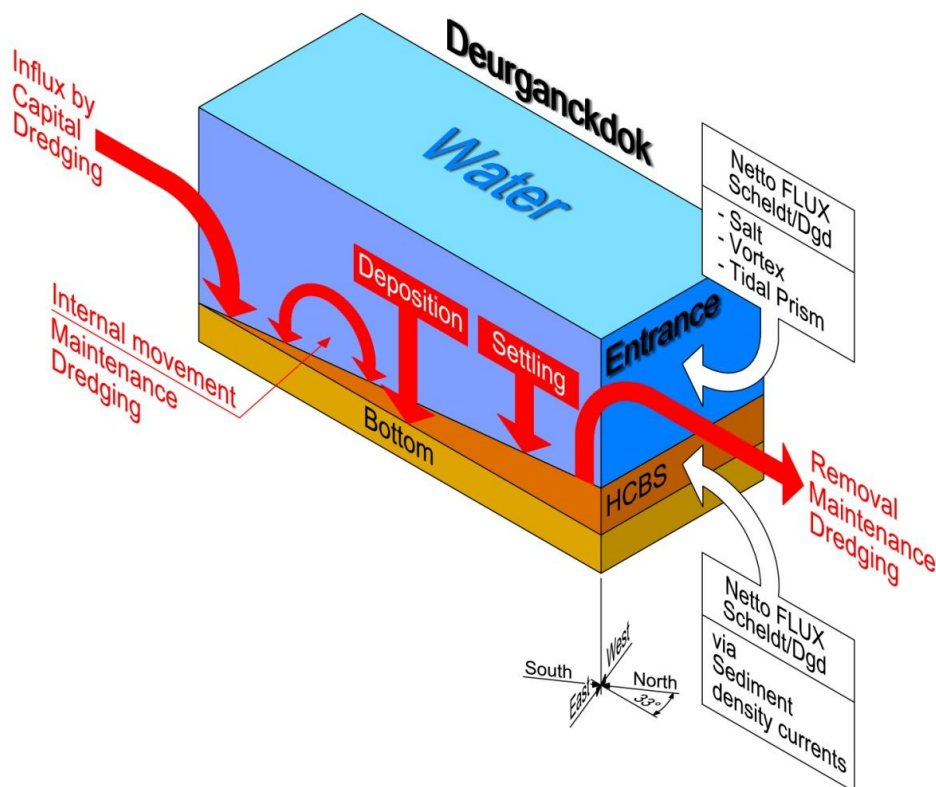


Figure 2-4: Transport mechanisms

These aspects of hydrodynamics and sediment transport have been landmark in determining the parameters to be measured during the project. Measurements will be focused on three types of timescales: one tidal cycle, one neap-spring cycle and seasonal variation within one year.

Following data are being collected to understand these mechanisms:

- Monitoring upstream discharge in the river Scheldt.
- Monitoring Salt and sediment concentration in the Lower Sea Scheldt at permanent measurement locations at Oosterweel, up- and downstream of the Deurganckdok.
- Long term measurement of salt and suspended sediment distribution in Deurganckdok.
- Monitoring near-bed processes (current velocity, turbidity, and bed elevation variations) in the central trench in the dock, near the entrance as well as near the current deflecting wall location.
- Dynamic measurements of current, salt and sediment transport at the entrance of Deurganckdok.
- Through tide measurements of vertical sediment concentration profiles -including near bed high concentrated benthic suspensions.
- Monitoring dredging activities at entrance channels towards the Kallo, Zandvliet and Berendrecht locks as well as dredging and dumping activities in the Lower Sea Scheldt.
- In situ calibrations were conducted on several dates to calibrate all turbidity and conductivity sensors.

2.3 SPECIFIC OBJECTIVES OF THIS REPORT

The natural ambient conditions in the Scheldt estuary change from the mouth near Vlissingen to the upstream boundaries near Ghent and the tributaries. Furthermore navigation and dredging activities are important human activities in the Lower Sea Scheldt.

These natural and human conditions can help to gain insight in the mechanisms causing siltation in Deurganckdok. For this reason this report summarises the following data for the period between April 2010 and March 2011:

- Ambient characteristics in the Lower Sea Scheldt:
 - Tide
 - Current
 - Salinity
 - Temperature
 - Turbidity/Suspended sediment concentration
 - Salinity downstream
- Fresh water inflow from the tributaries
- Meteorological conditions
- Human activities
 - Dredging/disposal
 - Navigation

3. OVERVIEW OF THE MEASUREMENT CAMPAIGNS

In the scope of this project, IMDC organized several measurements campaigns at the entrance, down- and upstream of Deurganckdok, and in the dock itself (see overview of various reports in Table 1-1). A detailed description of through tide measurement campaigns and long-term salinity measurements during this reporting period can be found in IMDC reports (2010a & 2010b).

Table 3-1 gives a global overview from the beginning of project of the coordinates of the measurement locations and the periods when data was gathered. Also the coordinates and periods for project HCBS2 is given in Table 3-1. Considering the through tide measurements coordinates are given for the sailed transects (i.e. left bank and right bank position). Figure 3-1 shows the Lower Sea Scheldt with the several measurement locations of projects HCBS2 and Deurganckdok. A sketch of each measurement campaign can be found from Figure 3-2 to Figure 3-16. Table 3-2 gives an overview of the measured parameters during these measurement campaigns.

Table 3-1: Measurement locations and periods for the HCBS2 and Deurganckdok measurements (01/01/2006 –31/03/2011)

<i>Through tide measurements: Siltprofiler gauging points</i>			
<i>Location</i>	<i>Easting (UTM ED 50)</i>	<i>Northing (UTM ED 50)</i>	<i>Period</i>
Location 1: Xa	588549	5684335	21/03/2006, 26/09/2006, 23/10/2007, 12/03/2008, 29/09/2008 & 13/03/2009
Location 2: Xb	588596	5684411	
Location 3: Xc	588643	5684486	
Location 4: Xd	588690	5684562	
Location 5: Xe	588737	5684638	
Location 6: Ya	588606	5684217	
Location 7: Yb	588653	5684293	
Location 8: Yc	588700	5684368	
Location 9: Yd	588747	5684444	
Location 10: Ye	588793	5684520	
Location 11: Za	588662	5684099	
Location 12: Zb	588709	5684174	
Location 13: Zc	588756	5684250	
Location 14: Zd	588803	5684326	
Location 15: Ze	588850	5684402	

<i>Through tide measurements: Transects</i>					
<i>Location</i>	<i>Easting (UTM ED 50)</i>		<i>Northing (UTM ED 50)</i>		<i>Period</i>
Deurganckdok (in dock) (transect Y)	Left Bank	Right Bank	Left Bank	Right Bank	21/03/2006, 26/09/2006, 12/03/2008 & 11/03/09
	589059	591298	5684948	5683077	
Liefkenshoek (transect I)	Left Bank	Right Bank	Left Bank	Right Bank	22/03/2006, 27/09/2006 & 11/03/2008
	590318	590771	5684257	5683302	
Deurganckdok (downstream) (transect K)	Left Bank	Right Bank	Left Bank	Right Bank	22 - 23/03/2006, 27 - 28/09/2006 & 11/03/2008
	588484	589775	5684924	5685384	
Deurganckdok (entrance) (transect DGD)	Left Bank	Right Bank	Left Bank	Right Bank	22/03/2006, 27/09/2006, 24/10/2007, 11/03/2008, 19-26/06/2008, 24-30/09/2008 2-10/12/2009 6-12/03/2009
	588765	588541	5684056	5684527	
Schelle (transect S)	Left Bank	Right Bank	Left Bank	Right Bank	23/03/2006 & 28/09/2006
	592645	592953	5665794	5665682	
Waarde (transect W)	Left Bank	Right Bank	Left Bank	Right Bank	23/03/2006 & 28/09/2006
	573541	571318	5696848	5694933	
Deurganckdok (in dock) (Transect X, transect Y, transect Z)	North Side 588737 588793 588850	South Side 588408 588465 588521	North Side 5684638 5684520 5684402	South Side 5684107 5683989 5683871	01/10/2008
Deurganckdok (in dock) (Transect 1, transect 2, transect 3, transect 4)	North Side 588838 588891 588945 588998	North Side 5684844 5684763 5684681 5684599	South Side 588254 588330 588406 588482	South Side 5683880 5683836 5683791 5683746	02/03/2010

Near bed continuous monitoring			
Location	Easting (UTM ED 50)	Northing (UTM ED 50)	Period
Deurganckdok CDW	588653	5684906	14/03/2006 – 05/04/2006
Deurganckdok CDW	588685	5684880	19/04/2006 – 23/05/2006
Deurganckdok Sill	588805	5684170	19/04/2006 – 23/05/2006
Deurganckdok CDW	588685	5684880	18/07/2006 – 11/10/2006
Deurganckdok Sill	588805	5684170	19/07/2006 – 11/10/2006
Deurganckdok CDW	588685	5684880	15/03/2007 – 12/04/2007
Deurganckdok Sill	588805	5684170	09/02/2007 – 18/04/2007
Deurganckdok CDW	588685	5684880	26/09/2007 – 05/12/2007
Deurganckdok Sill	588805	5684170	10/10/2007 – 28/11/2007
Deurganckdok CDW	588685	5684880	20/02/2008 – 02/04/2008
Deurganckdok Sill	588805	5684170	27/02/2008 – 09/04/2008
Salt Silt measurements Deurganckdok			
Location	Easting (UTM ED 50)	Northing (UTM ED 50)	Period
P&O 1	588074	5682942	17/03/2006 – 28/04/2006
P&O 2	588767	5684045	17/03/2006 – 28/04/2006
PSA	588536	5684523	17/03/2006 – 28/04/2006
P&O 1	588074	5682942	20/07/2006 – 12/10/2006
P&O 2	588767	5684045	20/07/2006 – 12/10/2006
PSA	588536	5684523	20/07/2006 – 12/10/2006
P&O 1	588074	5682942	12/02/2007 – 27/03/2007
P&O 2	588767	5684045	12/02/2007 – 27/03/2007
PSA	588536	5684523	12/02/2007 – 27/03/2007
P&O 1	588074	5682942	20/06/2007 – 31/07/2007
P&O 2	588767	5684045	20/06/2007 – 31/07/2007
PSA	588536	5684523	20/06/2007 – 31/07/2007
P&O 1	588074	5682942	17/09/2007 – 10/12/2007
P&O 2	588767	5684045	17/09/2007 – 10/12/2007
PSA	588536	5684523	17/09/2007 – 10/12/2007
N entrance (PSA HNN)	588536	5684523	20/02/2008 – 24/03/2009
S entrance (DB Ports)	588767	5684045	20/02/2008 – 24/03/2009
S middle (DB Ports)	588074	5682942	20/02/2008 – 24/03/2009
S back (DB Ports)	587760	5682449	20/02/2008 – 24/03/2009
N entrance (PSA HNN)	588536	5684523	24/03/2009 – 09/04/2010

S entrance (DB Ports)	588767	5684045	24/03/2009 – 09/04/2010
Settling velocity – INSSEV			
Location	Easting (UTM ED 50)	Northing (UTM ED 50)	Period
Deurganckdok CDW	588717	5684898	05/09/2006
Deurganckdok SILL	588800	5684250	06/09/2006
Deurganckdok Western quay wall	588452	5684355	07/09/2006

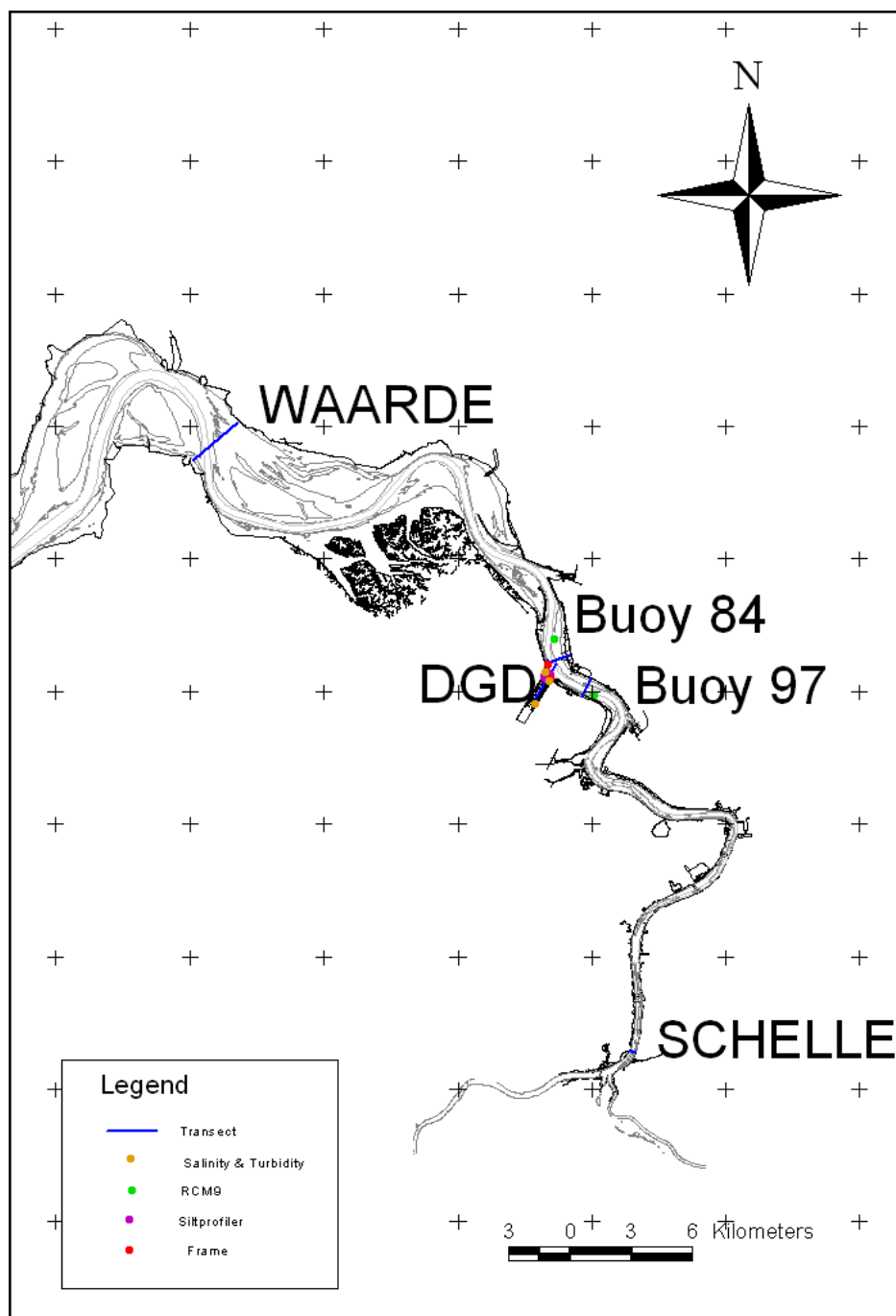


Figure 3-1: The measurement locations in the Lower Sea Scheldt and Deurganckdok
(01/01/2006 – 31/03/2009)

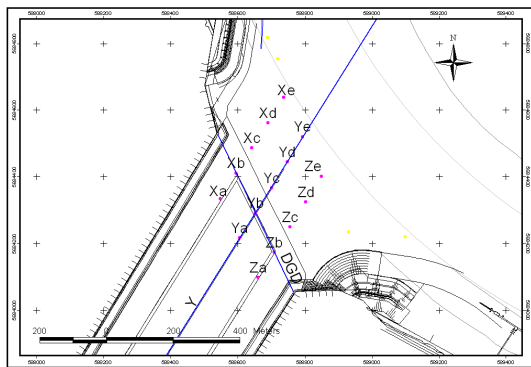


Figure 3-2: Through tide SiltProfiler measurements – Entrance Deurganckdok

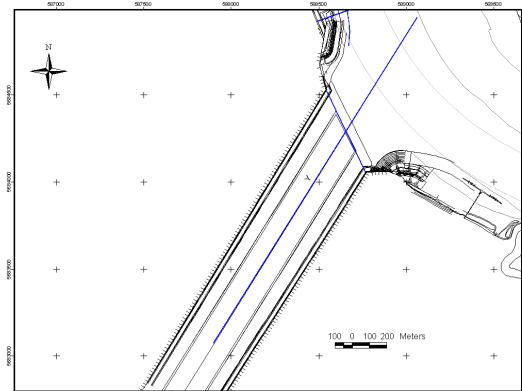


Figure 3-3: Through tide Salinity measurements – Deurganckdok (transect Y)

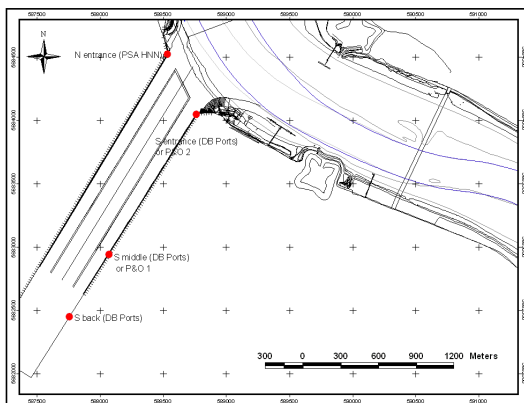


Figure 3-4: Long-term salinity measurements Deurganckdok

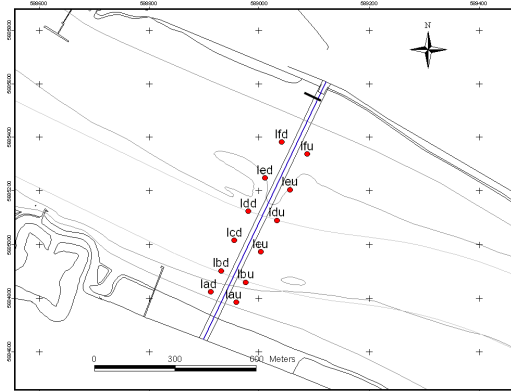


Figure 3-5: Through tide ADCP & SiltProfiler measurements – Upstream Deurganckdok (transect I)

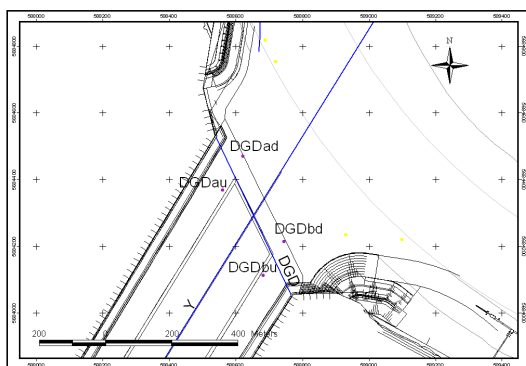


Figure 3-6: Through tide ADCP measurements – Entrance Deurganckdok (transect DGD)

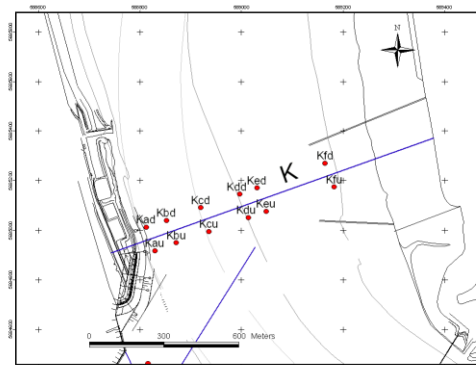


Figure 3-7: Through tide ADCP & SiltProfiler measurements – Downstream Deurganckdok (Transect K)

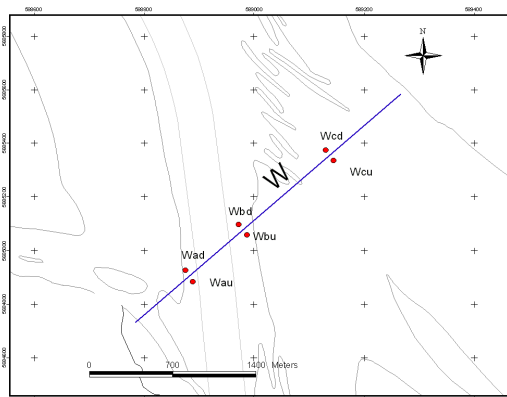


Figure 3-8: Through tide ADCP measurements - Waarde (transect W)

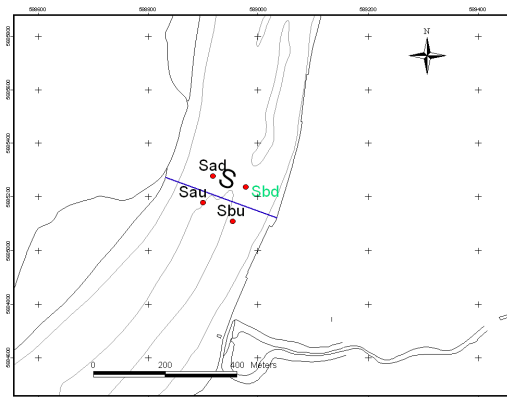


Figure 3-9: Through tide ADCP measurements - Schelle (transect S)

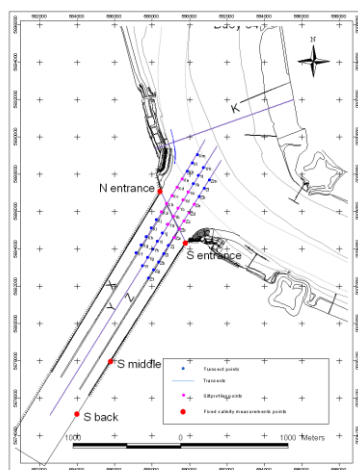


Figure 3-10: Through tide measurement ADCP eddy 01/10/2008

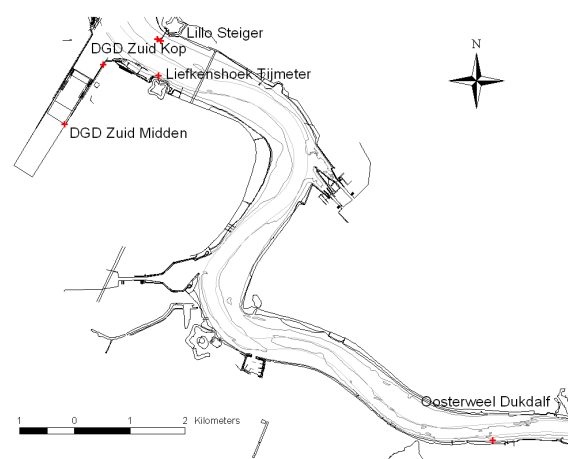


Figure 3-11: Calibration measurements - 15/03/2006 & 14/04/2006

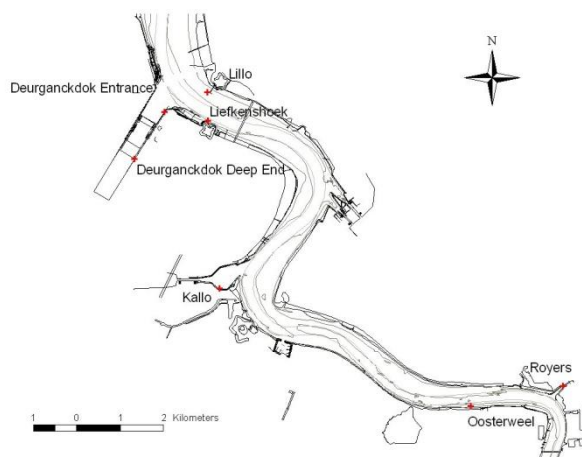


Figure 3-12: Calibration measurements - 23/06/2006, 18/09/2006 & 16/03/2011

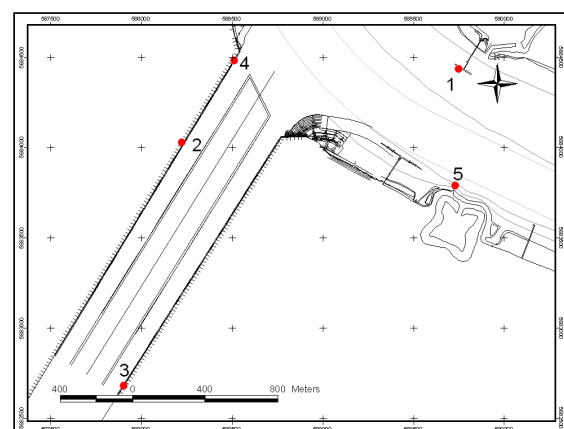


Figure 3-13: Calibration measurements - 10/09/2008

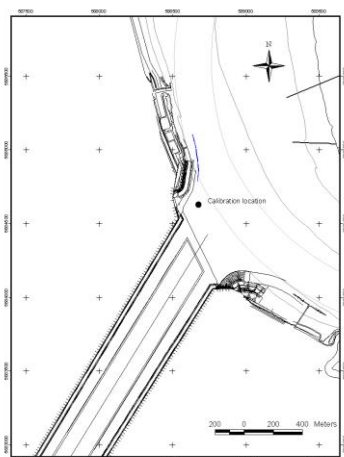


Figure 3-14: Calibration measurements –
04-05/02/2008 & 27-28/10/2009

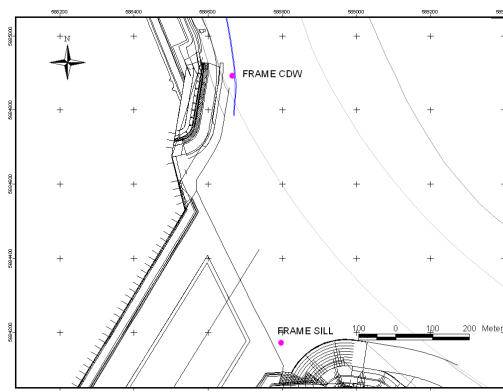


Figure 3-15: Near bed continuous monitoring

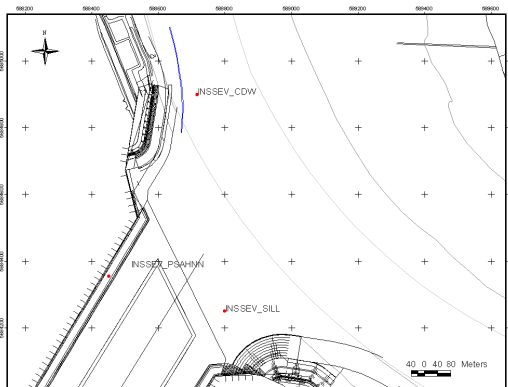


Figure 3-16: Settling velocity (INSSEV)
05/09/2006 – 07/09/2006

Table 3-2: The equipment and measured parameters per location by IMDC (01/01/2006 – 31/03/2011)

<i>Through tide measurements</i>									
<i>Location</i>	<i>Period</i>	<i>Instrument</i>	<i>Velocity</i>	<i>Direction</i>	<i>Temperature</i>	<i>Pressure</i>	<i>Conductivity</i>	<i>Turbidity</i>	<i>Depth</i>
Deurganckdok (in dock, transect Y)	21/03/06, 26/09/06 12/03/08, 29/09/09 & 11/03/09, 13/03/09	SiltProfiler			X	X	X	X	
		Echosounder							X
		AADI RCM 9			X	X	X		
		CTD			X	X	X		
Liefkenshoek (transect I)	22/03/06, 27/09/06 & 11/03/08	ADCP	X	X					
		OBS			X	X	X	X	
		CTD			X	X	X		
		Pump Sampler							
		SiltProfiler			X	X	X	X	
		Echosounder							X
Deurganckdok (transect DGD)	22/03/06, 27/09/06, 24/10/07, 11/03/08, 19/06/08, 26/06/08, 24/09/08, 30/09/08, 02/12/08, 10/12/08, 06/03/09 & 12/03/09	ADCP	X	X					
		OBS			X	X	X	X	
		CTD			X	X	X		
		Pump Sampler							

Deurganckdok (transect K)	22/03/06, 27/09/06 & 11/03/08	ADCP	X	X					
		OBS			X	X	X	X	
		CTD			X	X	X		
		Pump Sampler							
	23/03/06 & 28/09/06	SiltProfiler			X	X	X	X	
		Echosounder							X
Schelle (transect S)	23/03/06 & 28/09/06	ADCP	X	X					
		OBS			X	X	X	X	
		CTD			X	X	X		
		Pump Sampler							
Waarde (Transect W)	23/03/06 & 28/09/06	Same as Schelle (transect S)							
Deurganckdok (Transect X, Y & Z)	01/10/08	ADCP	X	X					
		CTD			X	X	X		
Deurganckdok (Transect 1,2,3 & 4)	02/03/10	ADCP	X	X					
		CTD			X	X	X		

<i>Near bed continuous monitoring</i>									
<i>Location</i>	<i>Period</i>	<i>Instrument</i>	<i>Velocity</i>	<i>Direction</i>	<i>Temperature</i>	<i>Pressure</i>	<i>Conductivity</i>	<i>Turbidity</i>	<i>Depth</i>
Deurganckdok CDW	14/03/2006 – 05/04/2006	Valeport MIDAS OBS3+	X	X	X	X	X	X	
		AADI RCM9	X	X	X	X	X	X	
		ALTUS							X
		ARGUS			X	X	X	X	
Deurganckdok CDW	19/04/2006 – 23/05/2006	Idem	Idem						
Deurganckdok Sill	19/04/2006 – 23/05/2006	Idem	Idem						
Deurganckdok CDW	18/07/2006 – 11/10/2006	Idem	Idem						
Deurganckdok Sill	19/07/2006 – 11/10/2006	Idem	Idem						
Deurganckdok CDW	15/03/2007 – 12/04/2007	Idem	Idem						
Deurganckdok Sill	09/02/2007 – 18/04/2007	Idem	Idem						
Deurganckdok CDW	26/09/2007 – 05/12/2007	Idem	Idem						
Deurganckdok Sill	10/10/2007 – 28/11/2007	Idem	Idem						

Deurganckdok CDW	20/02/2008 – 02/04/2008	Idem	Idem					
Deurganckdok Sill	27/02/2008 – 09/04/2008	Idem	Idem					
Long-term salinity measurements								
Location	Period	Instrument	Velocity	Direction	Temperature	Pressure	Conductivity	Turbidity
Deurganckdok (Quay wall)	17/03/2006 – 28/04/2006	AADI RCM9	X	X	X	X	X	X
		OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	20/07/2006 – 12/10/2006	OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	12/02/2007 – 27/03/2007	OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	20/06/2007 – 31/07/2007	OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	19/09/2007 – 10/12/2007	OBS 3A			X	X	X	X

Deurganckdok (Quay wall)	20/02/2008 – 28/04/2008	OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	28/04/2008 – 30/09/2008	OBS 3A			X	X	X	X
Deurganckdok (Quay wall)	01/10/2008 – 09/04/2010	OBS 3A			X	X	X	X
Long-term measurements								
Location	Period	Instrument	Depth sensor					
Buoy 84	01/01/2006 – 30/06/2006	AADI RCM 9	-5.6m TAW					
		AADI RCM 9	-8.1m TAW					
Buoy 97	01/01/2006 – 30/06/2006	AADI RCM 9	-5.3m TAW					
		AADI RCM 9	-7.8m TAW					
Buoy 84	01/07/2006 – 31/12/2006	AADI RCM 9	-5.6m TAW					
		AADI RCM 9	-8.1m TAW					
Buoy 97	01/07/2006 – 31/12/2006	AADI RCM 9	-5.3m TAW					
		AADI RCM 9	-7.8m TAW					

Buoy 84	01/01/2007 – 31/03/2007	AADI RCM 9	-5.6m TAW
		AADI RCM 9	-8.1m TAW
Buoy 97	01/01/2007 – 31/03/2007	AADI RCM 9	-5.3m TAW
		AADI RCM 9	-7.8m TAW
Buoy 84	01/04/2007 – 30/06/2007	AADI RCM 9	-5.6m TAW
		AADI RCM 9	-8.1m TAW
Buoy 97	01/04/2007 – 30/06/2007	AADI RCM 9	-5.3m TAW
		AADI RCM 9	-7.8m TAW

4. AMBIENT CONDITIONS

4.1 ENVIRONMENTAL CHARACTERISTICS IN THE LOWER SEA SCHELDT

4.1.1 Long-term turbidity, salinity and current measurements

Long-term measurements were executed in the Lower Sea Scheldt on fixed locations at Oosterweel, Buoy 84 and Prosperpolder (Figure 4-1). The measurements at Buoy 97 was removed in 2007. The measured data on these locations is current velocity, current direction, temperature, pressure, conductivity and turbidity using AADI (AADI Data Instruments) RCM-9 and RCM Seaguard units. Both AADI instruments has comparable sensors and were set up to measure every 10 minutes. These measurements were maintained by WL – Cel Hydrometrie Schelde. More information about the AADI RCM-9 can be found in report of IMDC (2005I) and about the AADI RCM Seaguard in report IMDC (2011c).

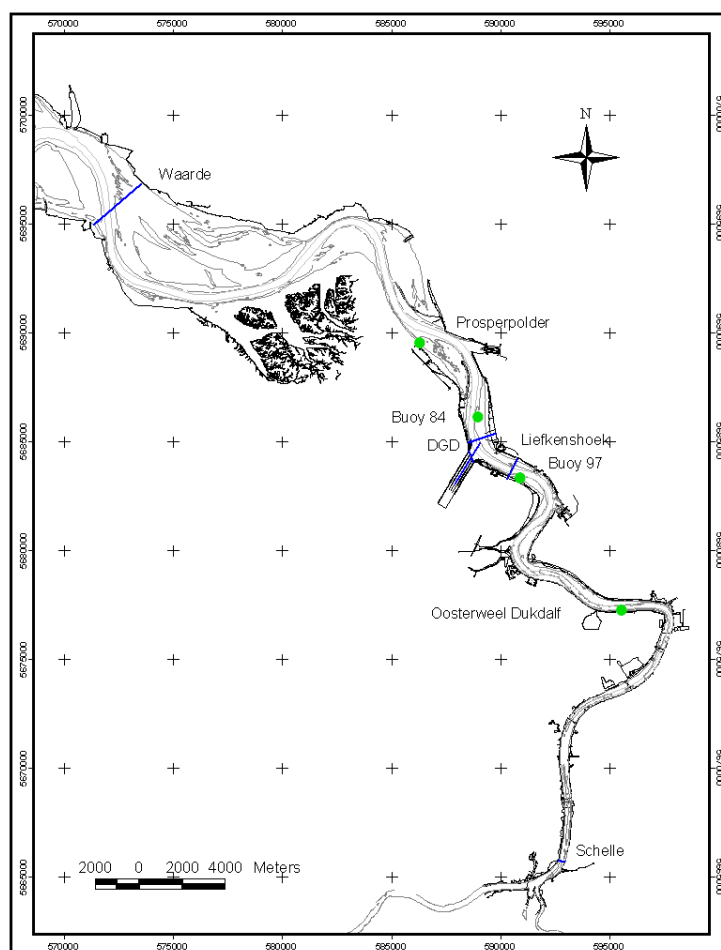


Figure 4-1: All measurement locations 01/2007 – 03/2010

At the left bank on the River Scheldt at Oosterweel (Figure 4-1), measurements were conducted by 2 AADI units and at Prosperpolder by 1 AADI unit. These instruments were

suspended from a mooring at fixed distances from the bottom (Table 4-1). The AADI unit used at Prosperpolder measured only reliable temperature, conductivity and pressure.

Table 4-1: Measurement locations and periods at Oosterweel (left bank) & Prosperpolder .

Location	Depth sensor	Easting (UTM ED50)	Northing (UTM ED50)
Oosterweel (top)	4.5m above bottom (-2.3m TAW)	595 574	5 677 278
Oosterweel (bottom)	1m above bottom (-5.8m TAW)	595 574	5 677 278
Buoy 84 (top)	3.3m above bottom (-5.6m TAW)	588 884	5 685 934
Buoy 84 (bottom)	0.8m above bottom (-8.1m TAW)	588 884	5 685 934
Prosperpolder	2.5m above bottom (-1.5m TAW)	586 307	5 689 501

The long-term measurement at Buoy 84 (and previously Buoy 97) was set up by IMDC. IMDC started the measurements on the 21st of September 2005 and was stopped on the 12th of April 2007. WL – Cel Hydrometrie Schelde continued these measurements at Buoy 84 on 9th of May 2007. A fixed set up was used in which a steel frame was placed on the bottom, with 2 AADI units suspended and held upright by subsurface buoys. The lower AADI was placed at 0.80m above the bottom, while the upper one was placed at a distance of 2.5m above the lower one (Table 4-1).

During whole measurement period, inclusive the IMDC period, there were short interruptions to calibrate the instruments: 13/04/2006 – 18/04/2006; 05/09/2007 – 13/09/2007, 30/01/2008 – 06/02/2008 and 22/10/2008 – 30/10/2008.

4.1.1.1 Methodology of Processing

The data of these measurements was processed by IMDC and is presented in Annex A. The collected data was validated and outliers were removed. Erroneous measurements because of malfunction of sensors, growth on sensors, instrument failure were also removed from the dataset and are documented in Table 4-2.

Salinity was calculated using the temperature, conductivity and pressure in the PSS-78 formula (Unesco, 1991 & IMDC, 2002, see Annex F).

Turbidity values were converted to suspended sediment concentration (SSC) using an equation of calibration curve. The calibration curve was set up by WL- Hydrologisch InformatieCentrum and are reported in IMDC (2012e).

Table 4-2: Chronological overview of missing and faulty data for period 01/04/2010 - 31/03/2011 at measurement locations Oosterweel, Buoy 84 and Prosperpolder.

Oosterweel left bank – 4.5 m above bottom				
Period	Serial number	No data	Faulty data	Comment
01/07/2004				Start measurement period
18/03/2010	0152			Start reporting period
11/10/2010 – 21/11/2010	0152	X		No data available
17/12/2010 – 17/02/2011	0152	X		No data available
31/03/2011	0152			End reporting period
Oosterweel left bank – 1 m above bottom				
Period	Serial number	No data	Faulty data	Comment
01/07/2004				Start measurement period
18/03/2010	0149			Start reporting period
30/09/2009 – 16/12/2010	0149	X		No data available
17/12/2010	0065			Replacement instrument by AADI Seaguard RCM 0065
25/03/2011	0065			End reporting period
Buoy 84 top – 3.3 m above bottom				
Period	Serial number	No data	Faulty data	Comment
20/09/2005				Start measurement period
09/06/2010	0065			Start reporting period
09/07/2010 – 22/07/2010	0065	X		No data available
23/07/2010	0173			Replacement instrument by AADI Seaguard RCM 0173
05/01/2011 – 11/01/2011	0173	X		No data available

06/04/2011	0173			End reporting period
Buoy 84 bottom – 0.8 m above bottom				
Period	Serial number	No data	Faulty data	Comment
20/09/2005				Start measurement period
24/02/2010	0248			Start reporting period
24/02/2010 – 06/04/2011	0248			No Pressure data
22/04/2010 – 22/06/2010	0248	X		No data available
31/07/2010 – 04/08/2010	0248	X		No conductivity/salinity data
05/01/2011 – 11/01/2011	0248	X		No data available
06/04/2011	0248			End reporting period
Prosperpolder – 2.5 m above bottom				
Period	Serial number	No data	Faulty data	Comment
15/06/2006	0117			Start measurement period
18/03/2010	0117			Start reporting period
06/05/2010 – 03/06/2010	0117		X	Bad conductivity/salinity data
31/03/2011	0117			End reporting period

4.1.1.2 Results (weekly)

The data gathered during these long-term measurements is current velocity, current direction, temperature, pressure and turbidity. In Annex A the processed data is visualized per location and per week in some plots:

- The title shows the week number followed by the year
- The first graph shows the current velocity and the current direction. The direction is scaled from 0 to 360
- The second graph depicts the salinity and temperature
- The third and last graph shows the waterlevel at the nearest tidal gauge and the suspended sediment concentration

All times are given in CET (Dutch: MET).

4.1.1.3 Results (monthly)

Monthly results (minimum, maximum and average) are shown in Annex A. The minimum, maximum and average value for velocity magnitude, temperature and suspended sediment concentration is given for every month. For salinity the minimum, maximum and mean are calculated for both high water slack and low water slack.

4.1.1.4 Results (deployment period)

An overview of the evolution of the monthly minimum, maximum and average values for velocity magnitude, temperature and suspended sediment concentration is given in Annex A. For salinity the minimum, maximum and mean are given for both high water slack and low water slack. Notice that for the suspended sediment concentration the graphs are only given since 2006. The graphs are given for the whole deployment period (April 2010 – March 2011).

4.1.1.5 Total results (October 2005 – March 2011)

The results for the whole deployment period are also given in Annex A. The minimum, maximum and average value for velocity magnitude, temperature and suspended sediment concentration is given for the period from October 2005 till March 2011. For salinity the minimum, maximum and mean are calculated for both high water slack and low water slack is given.

4.1.2 Vertical tide

WL – Cel Hydrometrie Schelde, delivered tidal data for the period from 01/04/2010 till 31/03/2011. It is reported together with the processed data of the long-term measurement campaigns and those at Oosterweel and Prosperpolder in Annex A.

4.2 FRESH WATER INFLOW

The fresh water discharge at Schelle are provided by WL - Hydrologische Informatie Centrum. The discharge data are based on gauging stations at Kleine Nete (Grobendonk), the Grote Nete (Itegem), the Dijle (Haacht), the Dender (Appels), the Zenne (Epegem) and the Bovenschelde (Melle). The discharges at the gauging stations are converted to discharges at the mouth of the tributaries and then to a 5-daily averaged fresh water discharge at Schelle.

This procedure is more described in WL (2009) and is based on the use of correction coefficients that take in account the surface of the hydrological basins.

In Annex B a graph of the evolution of the fresh water discharge is given just as a table with the decade averages of the fresh water discharge. Also the monthly averages are compared to the expected discharges in a graph.

4.3 METEOROLOGICAL DATA

The meteorological conditions for the measurement station Deurne for the period 01/04/2010 - 31/03/2011 is reported in Annex C. This data have been obtained from the KMI (Royal Meteorological Institute of Belgium).

4.4 HUMAN ACTIVITIES

4.4.1 Dredging activities

Afdeling Maritieme Toegang provided information about the dates, times, volumes and locations of dredging activities. In Annex D an overview is given of all the dredging activities from 01/04/2010 till 31/03/2011. Weekly volumes are given per location.

4.4.2 Navigation

Weekly data of navigation was delivered by Afdeling Scheepvaartbegeleiding – Schelde Rader Keten for the period of 01/04/2010 till 31/03/2011. To order the data a splitting up of the Beneden Zeeschelde was done in 4 areas. The first area is from de Belgian border up to locks of Zandvliet – Berendrecht (sluizencomplex Zandvliet – Berendrecht), the second goes from this point forward up to Deurganckdok. The third area is from Deurganckdok up to the lock of Kallo (Kallosluis) and finally the fourth goes up to the lock of Royers (Royerssluis). A more detailed description of the areas can be found in Annex E. Also a distinction is made between the draughts. In Annex E a total number is given which refers to the total of passing ships registered by Afdeling Scheepvaartbegeleiding - Schelde Radar Keten. In addition a difference was made between inland navigation and seagoing ships, just as between arrival and departure. Notice that for a certain area and certain draught, the total may deviate from the sum of inland navigation and seagoing. This can be explained by the presence of ships like dredgers, which were only counted in the column 'total'. Also a difference may occur between the total number and the sum of the arrival and departure number. This is due to vessels that have the same entry and exit point.

Finally it should be mentioned that not all inland shipping is observed by the system, which means that the actual number of inland shipping will be higher.

5. REFERENCES

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IMDC (2006g) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.6 23 March 2006 Veremans – Waarde, I/RA/11291/06.099/MSA.

IMDC (2006h) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.1 Opmeting stroming en zout- en sedimentbeweging aan de ingang van het Deurganckdok (SiltProfiler), I/RA/11283/06.087/WGO.

IMDC (2006i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.3. Opmeting stroming en zout-en sedimentbeweging aan de ingang van het Deurganckdok (ADCP), I/RA/11283/06.110/BDC

IMDC (2006j). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 8.1: Vaste meetopstelling in zake bodemgedrag, I/RA/11291/06.100/MSA.

IMDC (2006k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.6 Zout en slibverdeling Deurganckdok 17/03/2006 – 23/05/2006, I/RA/11283/06.121/MSA.

IMDC (2006l) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.3 Overview of ambient conditions in the river Scheldt – January-June 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2006m): Studie van de stromingsvelden en sedimentuitwisseling aan de ingang van Deurganckdok. Current and Sediment flux measurements November 17th 2005 (I/RA/15030/06.021/BDC).

IMDC(2006n): Studie van de stromingsvelden en sedimentuitwisseling aan de ingang van Deurganckdok. Additional processing of ADCP and salinity data 17/11/2005 and 28/11/2005 (I/RA/15030/06.040/BDC).

IMDC (2006o). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 9: Valsnelheid slib – INSSEV, I/RA/11291/06.102/MSA, in opdracht van AWZ.

IMDC (2006p). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.7: Silt distribution and frame measurements 15/07/2006 – 31/10/2006. (I/RA/11291/06.122/MSA).

IMDC (2006q) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.3 Overview of ambient conditions in the river Scheldt – Januari-June 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2006r) Mer verruiming Westerschelde, Nota Bovenafvoer Scheldebekken, I/NO/11282/06.104/FPE.

IMDC (2006s). Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.07 Zout en slibverdeling Deurganckdok 15/07/2006 – 31/10/2006, I/RA/11283/06.122/MSA.

IMDC (2007a) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 6.2 Summer calibration and Final report, I/RA/11291/06.093/MSA.

IMDC (2007b). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.4 Overview of ambient conditions in the river Scheldt – July-December 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2007c). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.1 Through tide Measurement Sediview & Siltprofiler 27/9 Stream - Liefkenshoek (I/RA/11291/06.104/MSA), in opdracht van AWZ.

IMDC (2007d). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.2 Through tide Measurement Sediview 27/9 Veremans - Raai K (I/RA/11291/06.105/MSA), in opdracht van AWZ.

IMDC (2007e). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.3 Through tide Measurement Sediview & Siltprofiler 28/9 Stream - Raai K (I/RA/11291/06.106/MSA), in opdracht van AWZ.

IMDC (2007f). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.4 Through tide Measurement Sediview 28/9 Veremans - Waarde(I/RA/11291/06.107/MSA), in opdracht van AWZ.

IMDC (2007g). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.5 Through

tide Measurement Sediview 28/9 Parel 2 - Schelle (I/RA/11291/06.108/MSA), in opdracht van AWZ.

IMDC (2007h). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.6 Through tide Measurement Salinity Distribution 26/9 Scheldewacht – Deurganckdok in opdracht van AWZ.

IMDC (2007i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.1 Sediment Balance: Three monthly report 1/4/2006 – 30/06/2006 (I/RA/11283/06.113/MSA)

IMDC (2007j) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.2 Sediment Balance: Three monthly report 1/7/2006 – 30/09/2006 (I/RA/11283/06.114/MSA)

IMDC (2007k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.3 Sediment Balance: Three monthly report 1/10/2006 – 31/12/2006 (I/RA/11283/06.115/MSA)

IMDC (2007l) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.4 Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.116/MSA)

IMDC (2007m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.5 Annual Sediment Balance (I/RA/11283/06.117/MSA)

IMDC (2007n) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.2 Through tide measurement SiltProfiler 26/09/2006 Stream (I/RA/11283/06.068/MSA)

IMDC (2007o) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.4 Through tide measurement Sediview spring tide 27/09/2006 Parel 2 (I/RA/11283/06.119/MSA)

IMDC (2007p) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.7 Salt-Silt distribution & Frame Measurements Deurganckdok 15/07/2006 – 31/10/2006 (I/RA/11283/06.122/MSA)

IMDC (2007q) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.8 Salt-Silt distribution & Frame Measurements Deurganckdok 15/01/2007 – 15/03/2007 (I/RA/11283/06.123/MSA)

IMDC (2007r) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.1 Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA)

IMDC (2007s) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.10: Sediment Balance: Three monthly report 1/4/2007 – 30/06/2007 (I/RA/11283/07.081/MSA)

IMDC (2007t) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.11: Sediment Balance: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.082/MSA)

IMDC (2007v) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.16: Salt-Silt distribution Deurganckdok summer (21/6/2007 – 30/07/2007) (I/RA/11283/07.092/MSA)

IMDC (2007w) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.10: Boundary conditions: Three monthly report 1/04/2007 – 30/06/2007 (I/RA/11283/07.097/MSA)

IMDC (2007u) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.11: Boundary conditions: Two monthly report 1/07/2007 – 30/09/2007 (I/RA/11283/07.098/MSA)

IMDC (2008a) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.5: Through tide measurement Sediview average tide 24/10/2007 (I/RA/11283/06.120/MSA)

IMDC (2008b) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 4.1: Analysis of siltation Processes and Factors (I/RA/11283/06.129/MSA)

IMDC (2008c) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.12: Sediment Balance: Four monthly report 1/9/2007 – 31/12/2007 (I/RA/11283/07.083/MSA)

IMDC (2008d) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.13: Sediment Balance: Four monthly report 1/01/2007 – 31/03/2007 (I/RA/11283/07.084/MSA)

IMDC (2008e) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.14: Annual Sediment Balance. (I/RA/11283/07.085/MSA)

IMDC (2008f) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.09: Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)

IMDC (2008g) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.10: Through tide measurement SiltProfiler 23 October 2007 (I/RA/11283/07.086/MSA)

IMDC (2008h) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.11: Through tide measurement Salinity Profiling winter 12 March 2008 (I/RA/11283/07.087/MSA)

IMDC (2008i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.12: Through tide measurement Sediview winter 11 March 2008 – Transect I (I/RA/11283/07.088/MSA)

IMDC (2008j) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.13: Through tide measurement Sediview winter 11 March 2008 – Transect K (I/RA/11283/07.089/MSA)

IMDC (2008k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.14: Through tide measurement Sediview winter 11 March 2008 – Transect DGD (I/RA/11283/07.090/MSA)

IMDC (2008l) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.15: Through tide measurement SiltProfiler winter 12 March 2008 (I/RA/11283/07.091/MSA)

IMDC (2008m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.17: Salt-Silt distribution & Frame Measurements Deurganckdok autumn (17/9/2007-10/12/2007) (I/RA/11283/07.093/MSA)

IMDC (2008n) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.18: Salt-Silt distribution & Frame Measurements Deurganckdok winter (18/02/2007-31/03/2008) (I/RA/11283/07.094/MSA)

IMDC (2008o) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.19: Calibration stationary & mobile equipment winter (I/RA/11283/07.096/MSA)

IMDC (2008p) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.12: Boundary conditions: Three monthly report 1/9/2007 – 31/12/2007 (I/RA/11283/07.099/MSA)

IMDC (2008q) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.13: Boundary conditions: Three monthly report 1/1/2008 – 31/3/2007 (I/RA/11283/07.100/MSA)

IMDC (2008r) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.14: Boundary conditions: Annual report (I/RA/11283/07.101/MSA)

IMDC (2008s) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 4.10: Analysis of siltation Processes and Factors (I/RA/11283/07.102/MSA)

IMDC (2008t) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.20: Sediment Balance: Three monthly report 1/4/2008 – 30/06/2008 (I/RA/11283/08.076/MSA)

IMDC (2008u) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.20: Through tide measurement Sediview during average tide Spring 2008 – 19 June 2008 (I/RA/11283/08.081/MSA)

IMDC (2008v) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.21: Through tide measurement Sediview during average tide Spring 2008 – 26 June 2008 (I/RA/11283/08.082/MSA)

IMDC (2008w) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.21: Sediment Balance: Three monthly report 1/7/2008 – 30/09/2008 (I/RA/11283/08.077/MSA)

IMDC (2008x) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.22: Through tide measurement Sediview during neap tide Summer 2008 – 24 September 2008 (I/RA/11283/08.083/MSA)

IMDC (2008y) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.28: Through tide measurement ADCP eddy Summer 2008 – 1 October 2008 (I/RA/11283/08.089/MSA)

IMDC (2008z) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.32: Salt-Silt distribution Deurganckdok: six monthly report 1/4/2008 – 30/9/2008 (I/RA/11283/08.093/MSA)

IMDC (2008aa) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.20: Boundary conditions: Six monthly report 1/4/2008 – 30/09/2008 (I/RA/11283/08.096/MSA)

IMDC (2009a) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.23: Through tide measurement Sediview during spring tide Summer 2008 – 30 September 2008 (I/RA/11283/08.084/MSA)

IMDC (2009b) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.29: Through tide measurement SiltProfiler summer 2008 – 29 September 2008 (I/RA/11283/07.090/MSA)

IMDC (2009c) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.34: Calibration stationary & mobile equipment autumn 2008 (I/RA/11283/08.095/MSA)

IMDC (2009d) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.22: Sediment Balance: Three monthly report 1/10/2008 – 31/12/2008 (I/RA/11283/08.078/MSA)

IMDC (2009e) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.24: Through tide measurement Sediview during neap tide Autumn 2008 (I/RA/11283/08.085/MSA)

IMDC (2009f) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.25: Through tide measurement Sediview during spring tide Autumn 2008 (I/RA/11283/08.086/MSA)

IMDC (2009g) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.23: Sediment Balance: Three monthly report 1/01/2009 – 31/03/2009 (I/RA/11283/08.079/MSA)

IMDC (2009h) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.24: Annual Sediment Balance (I/RA/11283/08.080/MSA)

IMDC (2009i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.26: Through tide measurement Sediview during neap tide Winter 2009 (I/RA/11283/08.087/MSA)

IMDC (2009j) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.30: Through tide measurement SiltProfiler winter 2009 (I/RA/11283/08.091/MSA)

IMDC (2009k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.31: Through tide measurement Salinity Profiling winter 2009 (I/RA/11283/08.092/MSA)

IMDC (2009l) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.33: Salt-Silt distribution Deurganckdok: six monthly report 1/10/2008 – 31/3/2009 (I/RA/11283/08.094/MSA)

IMDC (2009m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.21: Boundary conditions: Six monthly report 1/10/2008 – 31/03/2009 (I/RA/11283/08.097/MSA)

IMDC (2009n) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.27: Through tide measurement Sediview during spring tide Winter 2009 (I/RA/11283/08.088/MSA)

IMDC (2009o) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 4.20: Analysis of siltation Processes and Factors (I/RA/11283/08.098/MSA)

IMDC (2009p) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.35: Salt-Silt distribution Deurganckdok: nine monthly report 1/04/2009 – 31/12/2009 (I/RA/11283/09.085/MSA)

IMDC (2010a) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.5 Through Tide measurement: eddy currents DGD 02/03/2010 (I/RA/11283/10.051/MSA)

IMDC (2010b) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.8 Sal-Silt distribution Deurganckdok 01/04/2009 – 31/03/2010 (I/RA/11354/10.068/NZI)

IMDC (2011a) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.1 Annual Sediment Balance year 1: 1/04/2009 – 31/03/2010 (I/RA/11354/10.067/NZI)

IMDC (2011b) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.2 Annual Sediment Balance year 2: 1/04/2009 – 31/03/2010 (I/RA/11354/10.100/MBO/ANF)

IMDC (2011c) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.4 Boundary Conditions year 1: 01/04/2009 – 31/03/2010 (I/RA/11354/10.102/MBO/ANF)

IMDC (2011d) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.7 Synthesis report of research on Current Deflecting Wall (I/RA/11354/10.063/MBO)

IMDC (2012a) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.1 Through Tide Sediview measurement: entrance DGD during spring tide in Autumn 2011 (I/RA/11354/10.106/MBO/ANF)

IMDC (2012b) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.1 Through Tide Sediview measurement: entrance DGD during neap tide in Autumn 2011 (I/RA/11354/10.107/MBO/ANF)

IMDC (2012c) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.5 Through Tide measurement: eddy currents DGD Autumn 2011 (I/RA/11354/10.110/MBO/ANF)

IMDC (2012d) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.10 Salt-Silt & Current Distribution entrance Deurganckdok: Frame measurements and through tide measurements: Autumn 2011 (I/RA/11354/11.131/BQU)

IMDC (2012e) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.12 Calibration stationary & mobile equipment 16/03/2011 (I/RA/11354/11.113/MBO/ANF)

IMDC (2012f) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.5 Boundary conditions year 2: 01/04/2010 – 31/03/2011 (I/RA/11354/11.103/MBO/ANF)

IMDC (2012g) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.3 Through Tide Sediview measurement: entrance DGD during spring tide in Winter 2012 (I/RA/11354/10.108/MBO/ANF)

IMDC (2012h) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.4 Through Tide Sediview measurement: entrance DGD during neap tide in Winter 2012 (I/RA/11354/10.109/MBO/ANF)

IMDC (2012k) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.7 Through Tide measurement: eddy currents DGD Winter 2012 (I/RA/11354/10.111/MBO/ANF)

IMDC (2012l) Evaluatie externe effecten aanslibbing Deurganckdok Deelrapport 2.11 Salt-Silt & Current Distribution entrance Deurganckdok: Frame measurements and through tide measurements: Winter 2012 (I/RA/11354/11.114/MBO/ANF)

IMDC (2012m) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.3 Annual Sediment Balance year 3: 1/04/2011 – 31/03/2012 (I/RA/11354/10.101/MBO/ANF)

IMDC (2012n) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.9 Sal-Silt distribution Deurganckdok 01/04/2009 – 31/05/2010 (I/RA/11354/10.112/MBO/ANF)

IMDC (2012o) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 2.13 Calibration stationary & mobile equipment 01/06/2012 (I/RA/11354/12.011/JCA)

IMDC (2012p) Evaluatie externe effecten aanslibbing Deurganckdok. Deelrapport 1.6 Boundary conditions year 3: 01/04/2011 – 31/03/2012 (I/RA/11354/11.104/MBO/ANF)

TV SAM (2006a) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 01/2005-06/2005. 42SR S032PIB 2A.

TV SAM (2006b) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 07/2005-12/2005. 42SR S033PIB 2A.

TV SAM (2006c) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 01/2006-06/2006. 42SR S032PIB 2A.

Waterbouwkundig Laboratorium (2009). MONEOS - jaarboek monitoring WL 2008 : Overzicht monitoring hydrodynamiek en fysische parameters zoals door WL in 2008 in het Zeescheldebekken gemeten, Antwerpen, België.

Unesco (1983). Algorithms for computation of fundamental properties of seawater, UNESCO Technical Papers in Marine Science, 44. UNESCO, France.

Annex A Long-term measurements at Oosterweel, Buoy 84 and Prosperpolder (WL – cel hydrometrie)

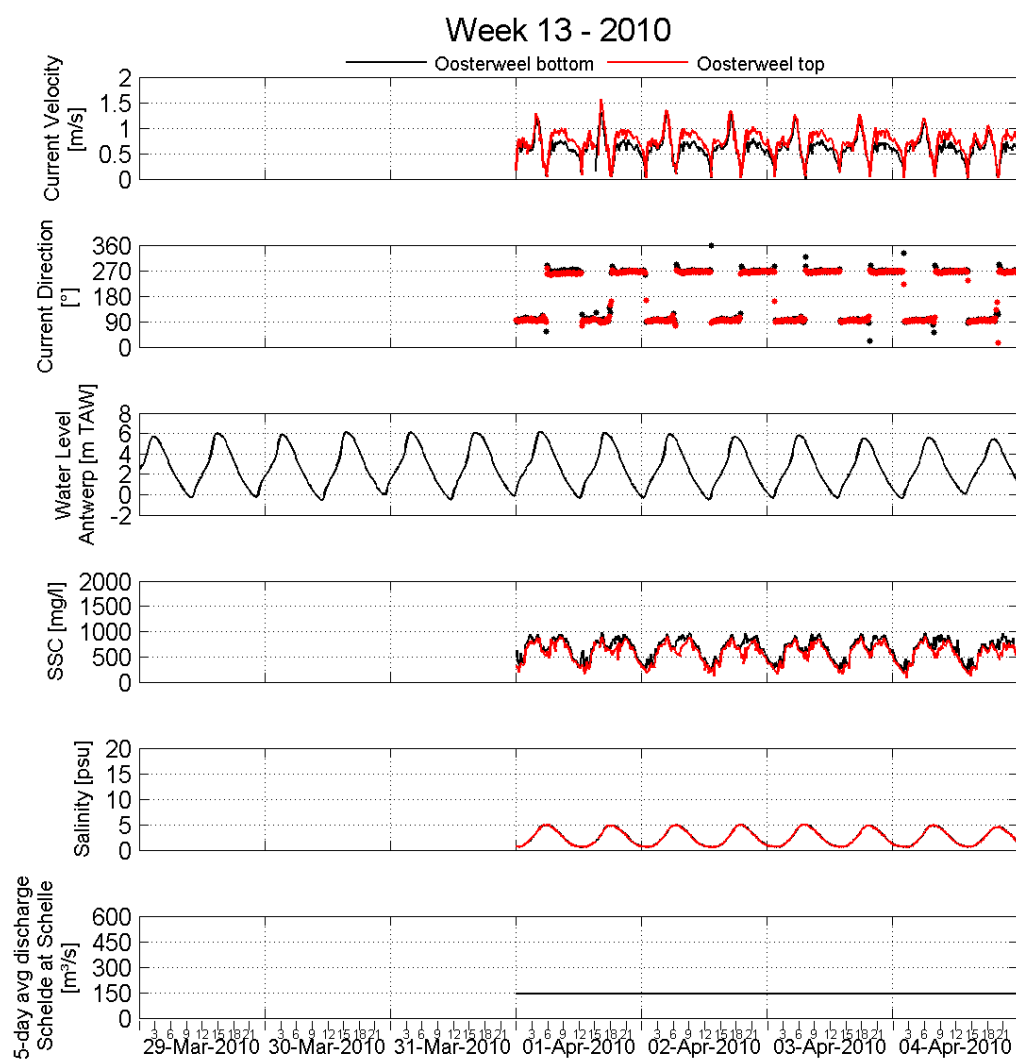
A.1 Datasheets week series

Datasheet order

<i>Nr</i>	<i>Location</i>	<i>Depth of Instrument</i>		<i>Serial number instrument</i>	<i>Period</i>
		<i>[m] above bottom</i>	<i>[m TAW]</i>		
1	Oosterweel (top)	4.5	-2.0	AADI RCM-9 0152	01/04/2010 – 31/03/2011
2	Oosterweel (bottom)	1.0	-5.5	AADI RCM-9 0149	01/04/2010 – 06/10/2010
				AADI Seaguard 0065	17/12/2010 – 31/03/2011
3	Buoy 84 (top)	3.3	-6.0	AADI Seaguard 0065	09/06/2010 – 09/07/2010
				AADI Seaguard 0173	23/07/2010 – 31/03/2011
4	Buoy 84 (bottom)	0.8	-8.0	AADI RCM-9 0248	01/04/2010 – 16/03/2011
5	Prosperpolder	2.5	-1.5	AADI RCM-9 0117	01/04/2010 – 31/03/2011

A.1.1 Oosterweel

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

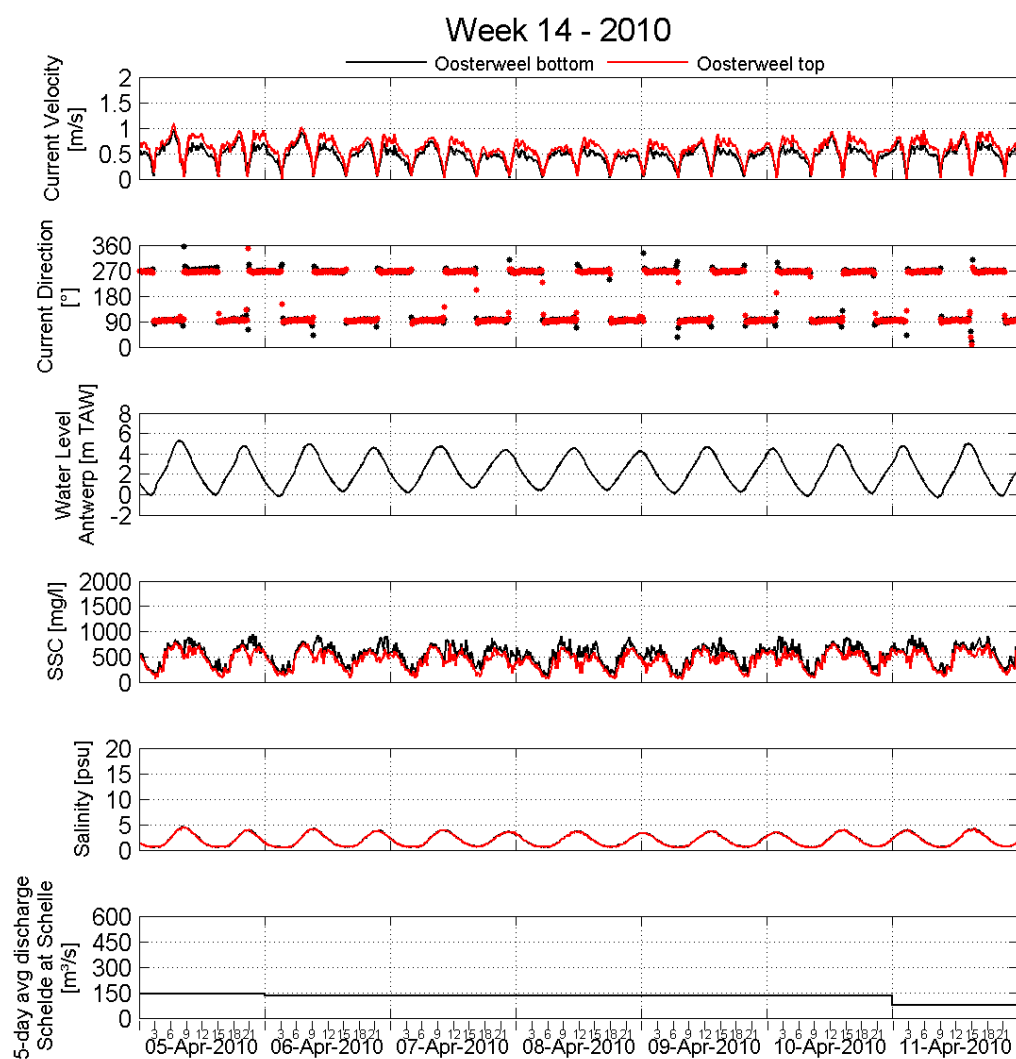


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

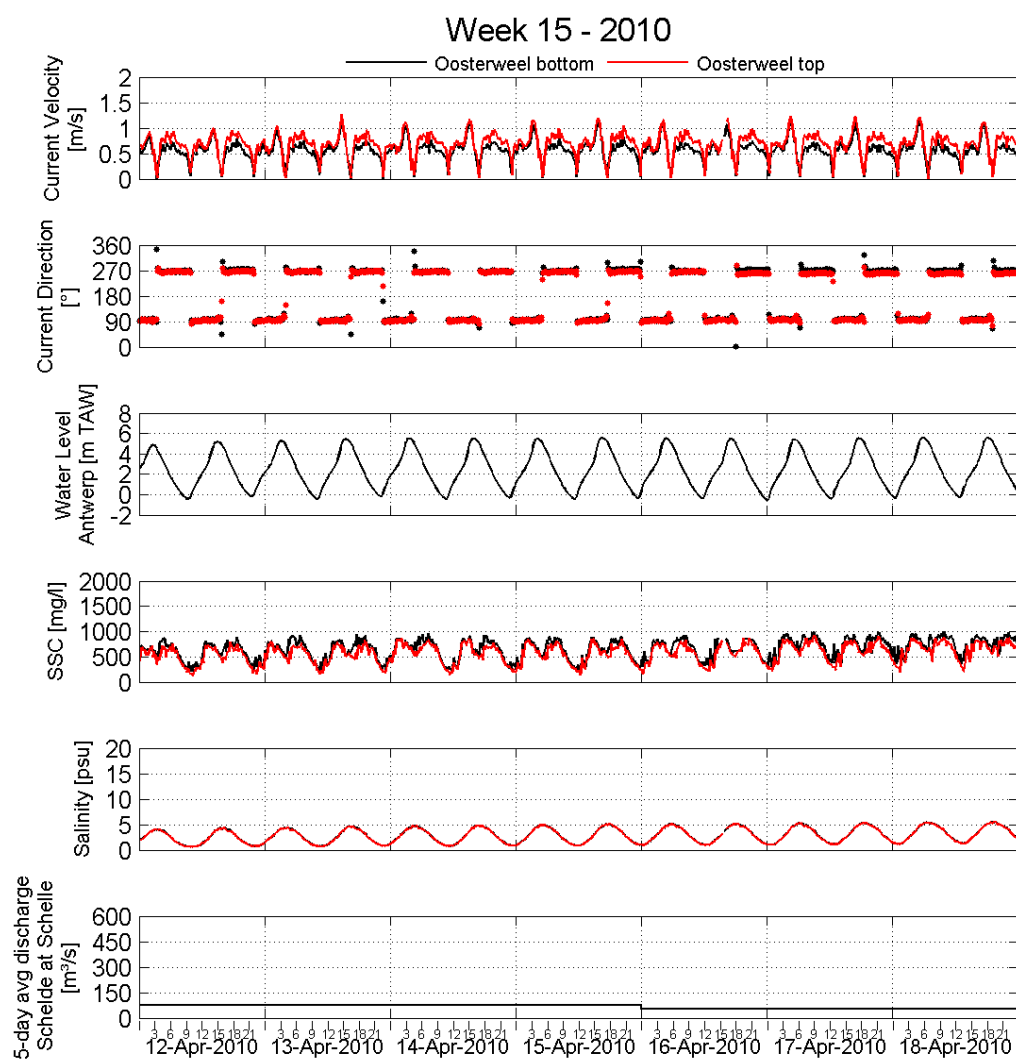


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

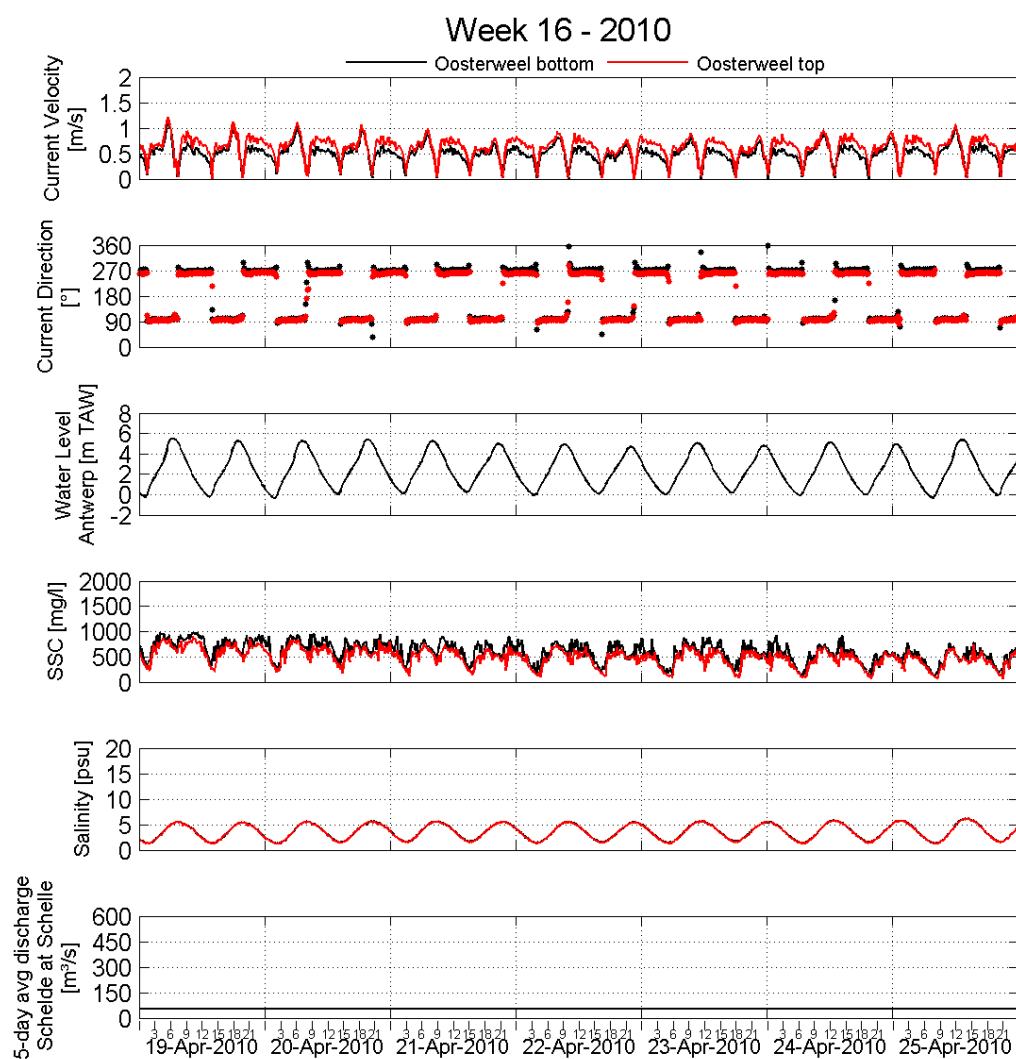


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

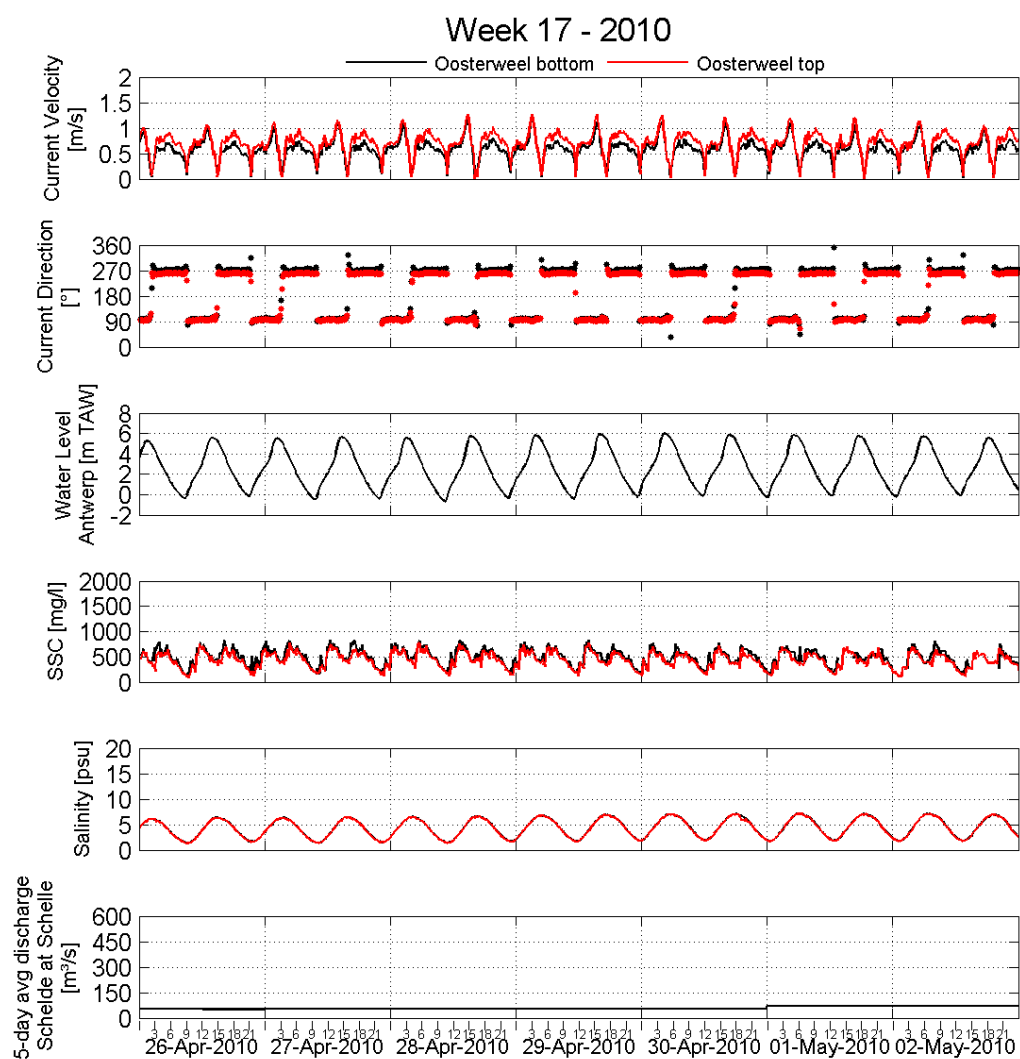


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

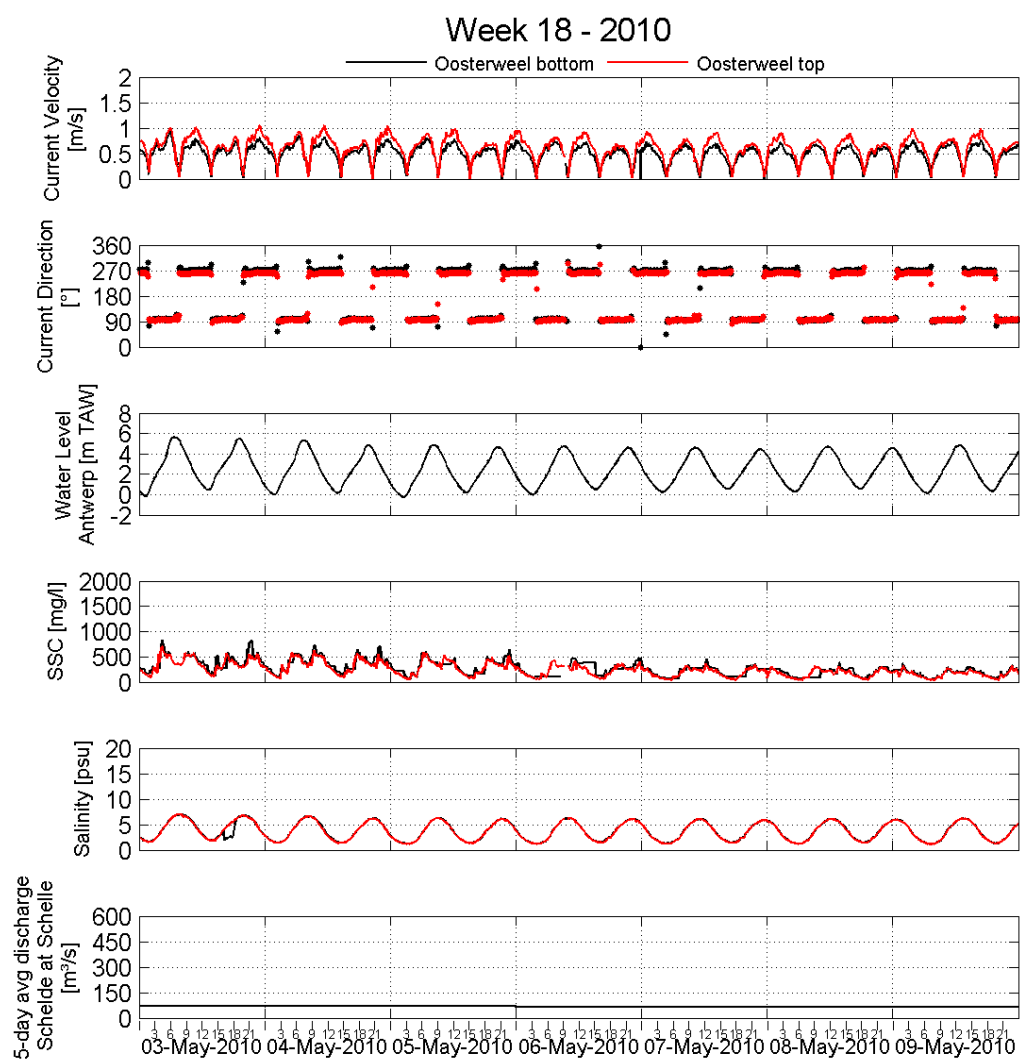


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

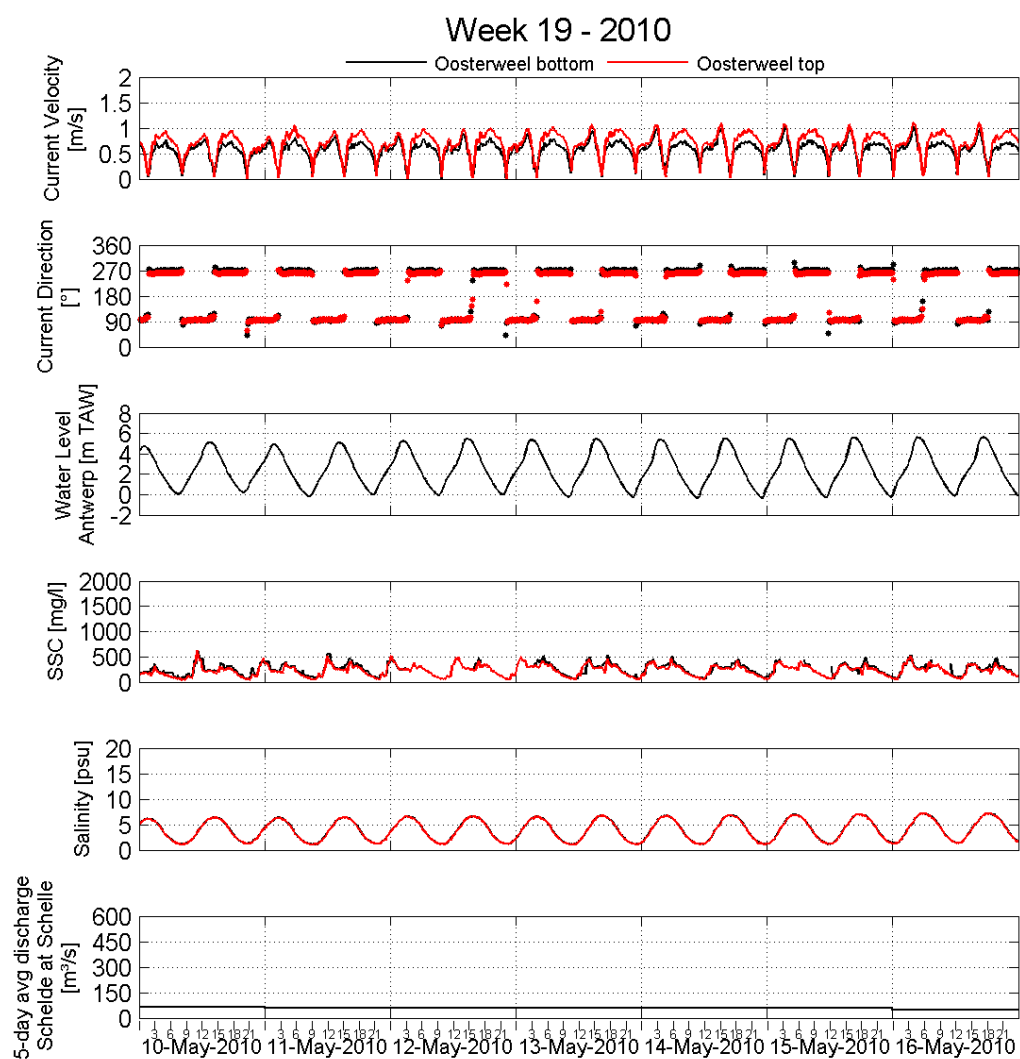


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

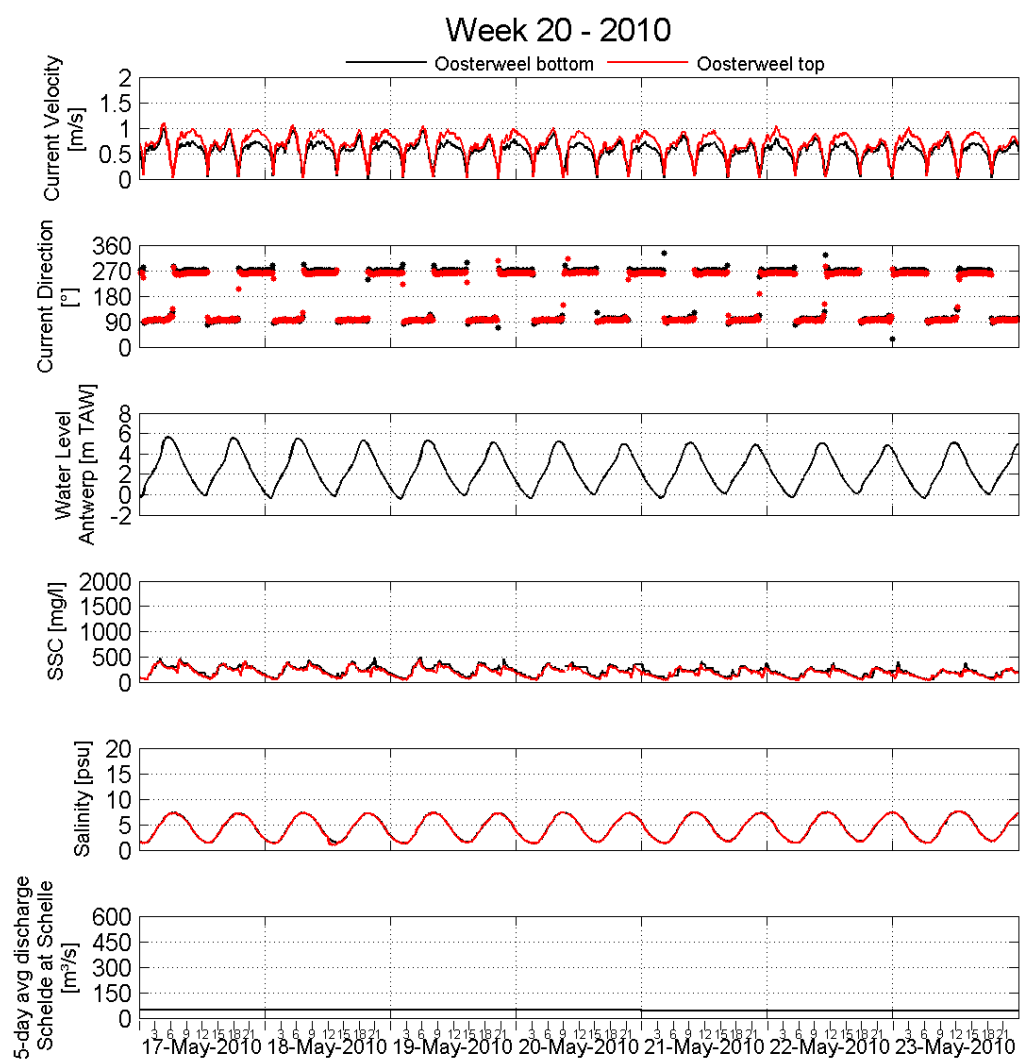


In Association with:



I/RA/11354/10.103/MBO/ANF

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Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

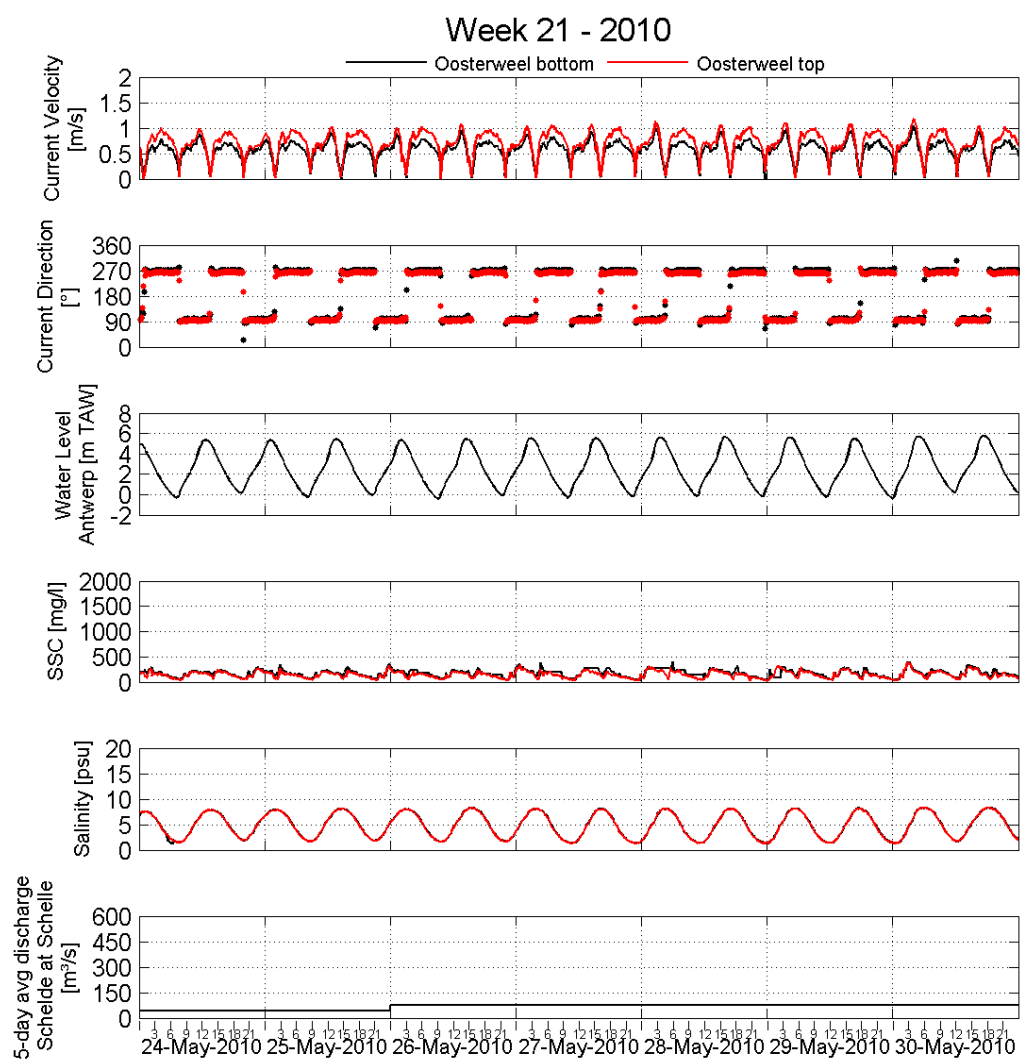


In Association with:



I/RA/11354/10.103/MBO/ANF

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Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

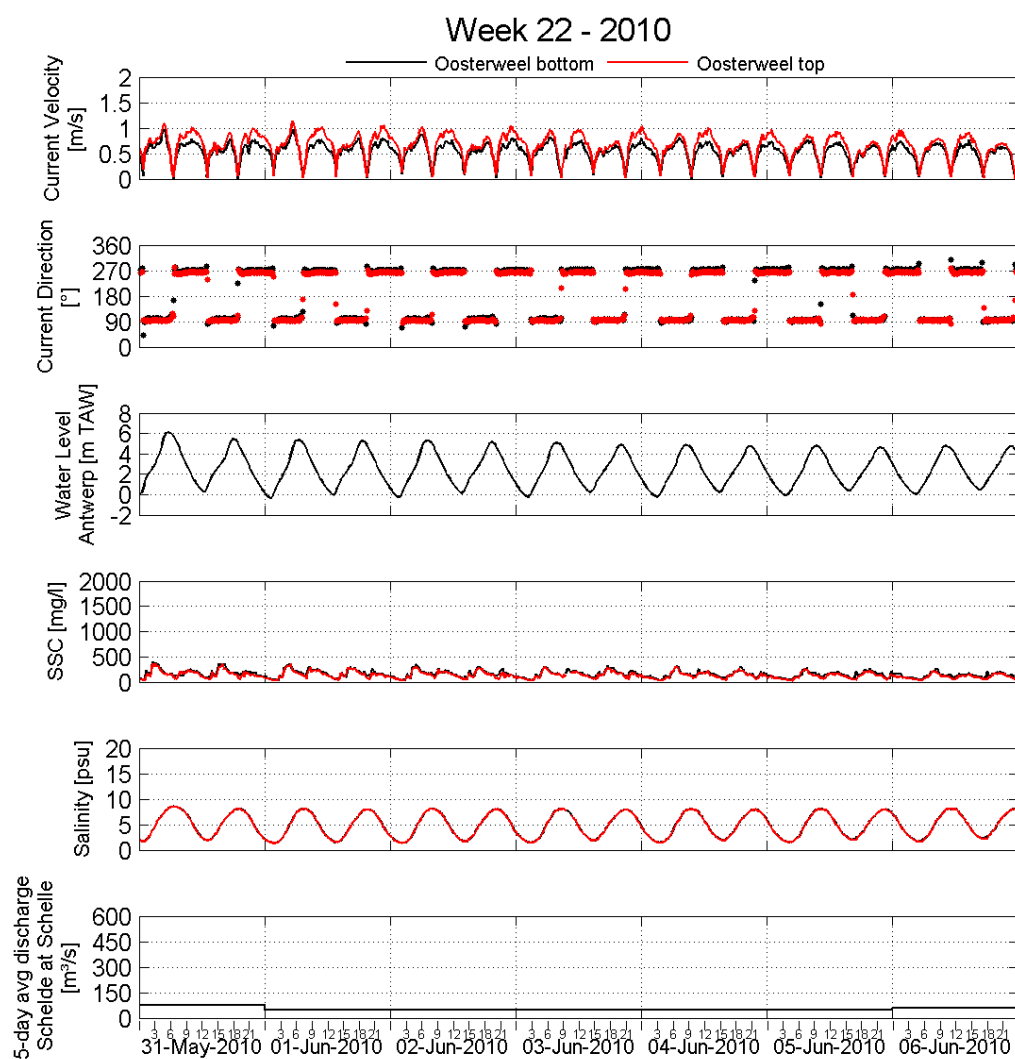


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

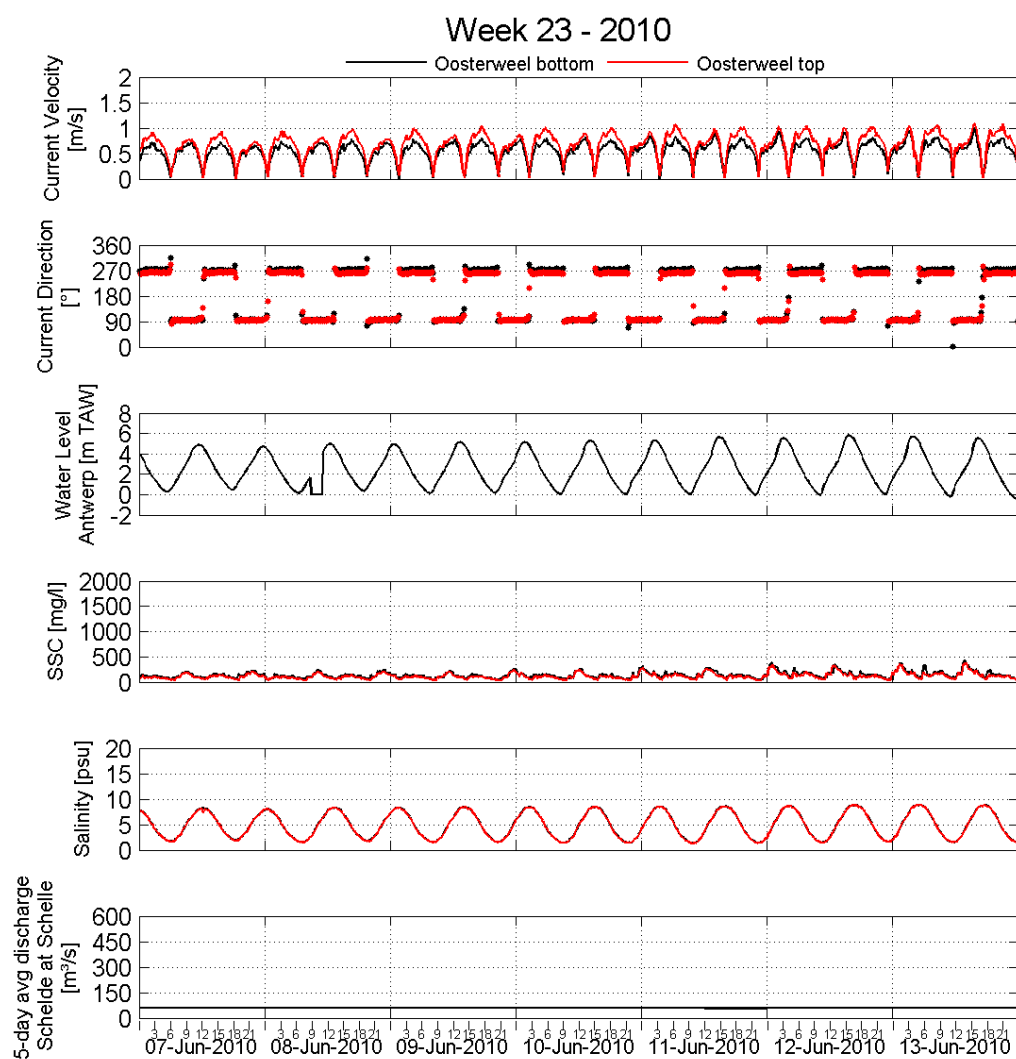


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

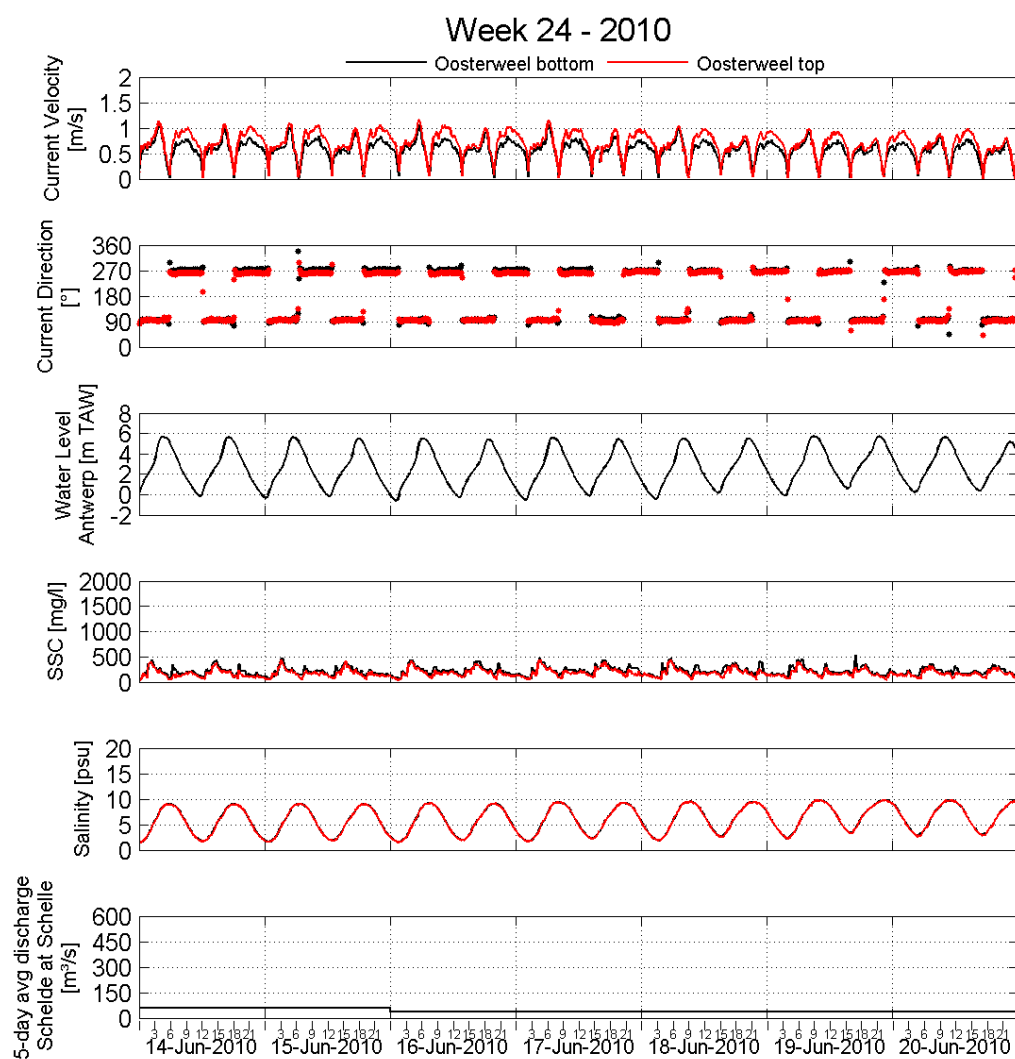


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
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Location:

Oosterweel (top & bottom)

Processed by:

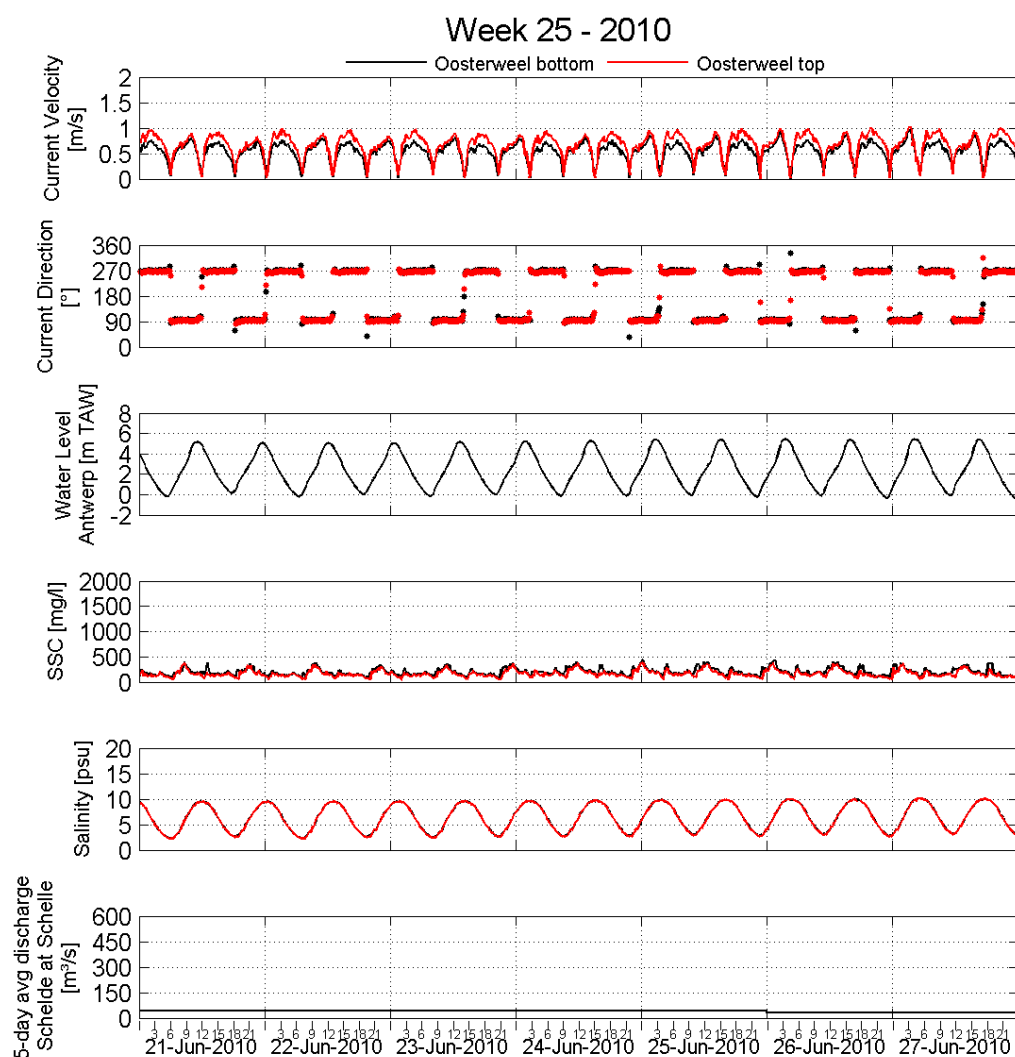


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

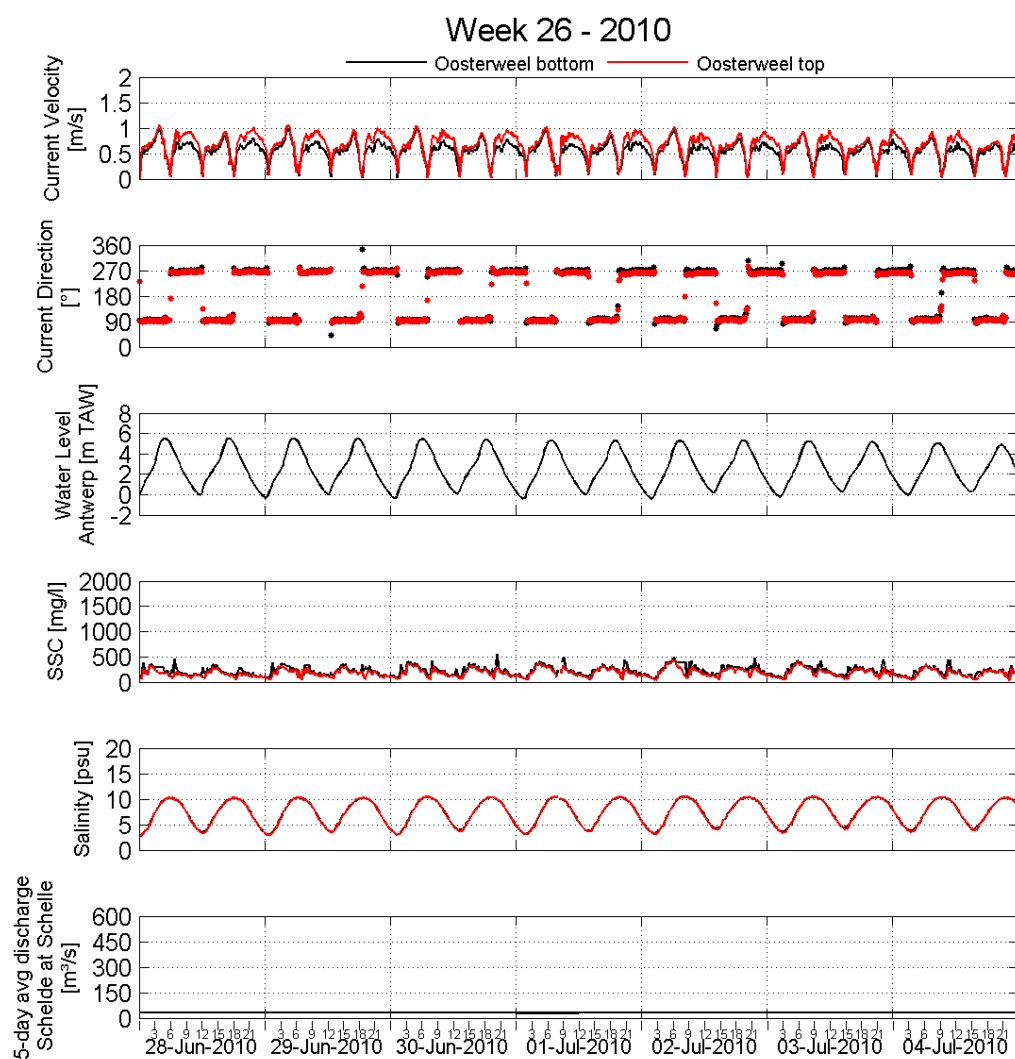


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
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Location:

Oosterweel (top & bottom)

Processed by:

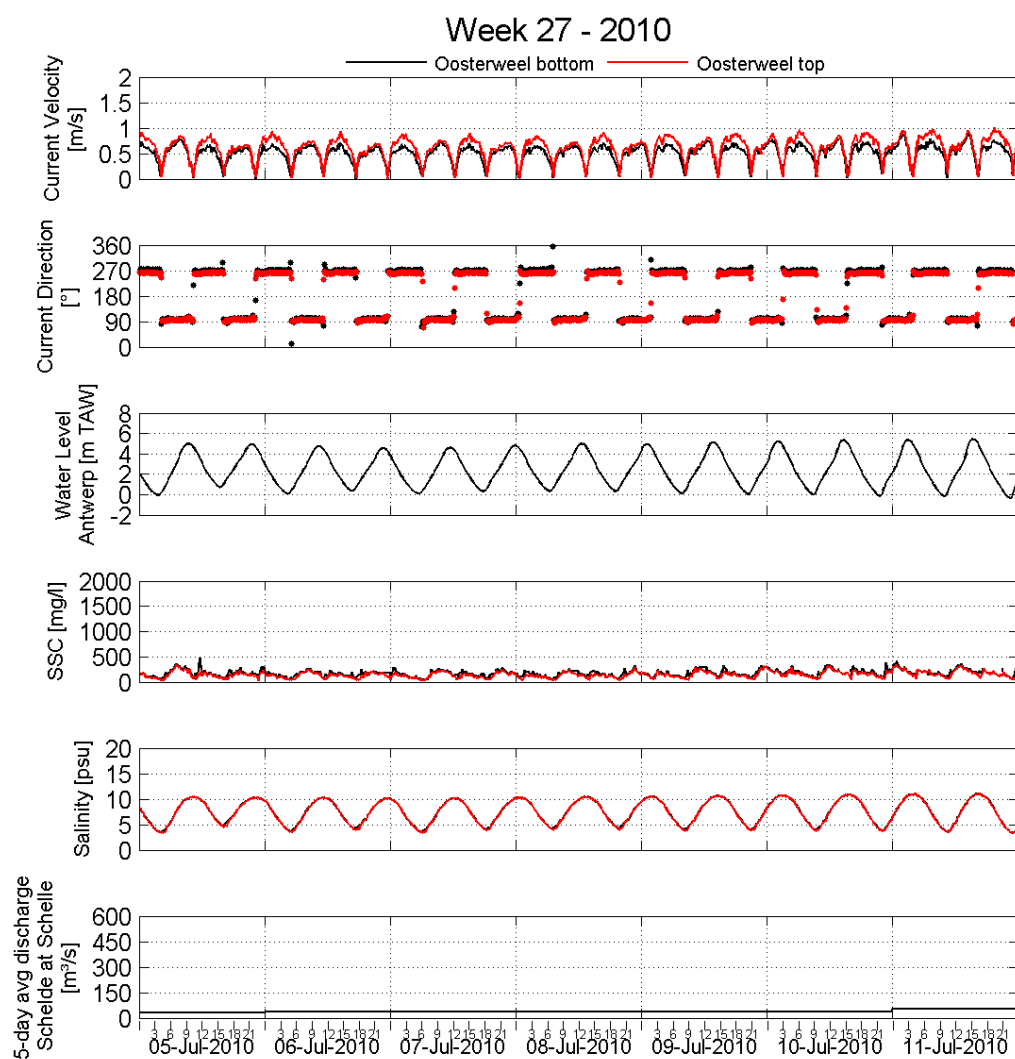


In Association with:



I/RA/11354/10.103/MBO/ANF

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Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

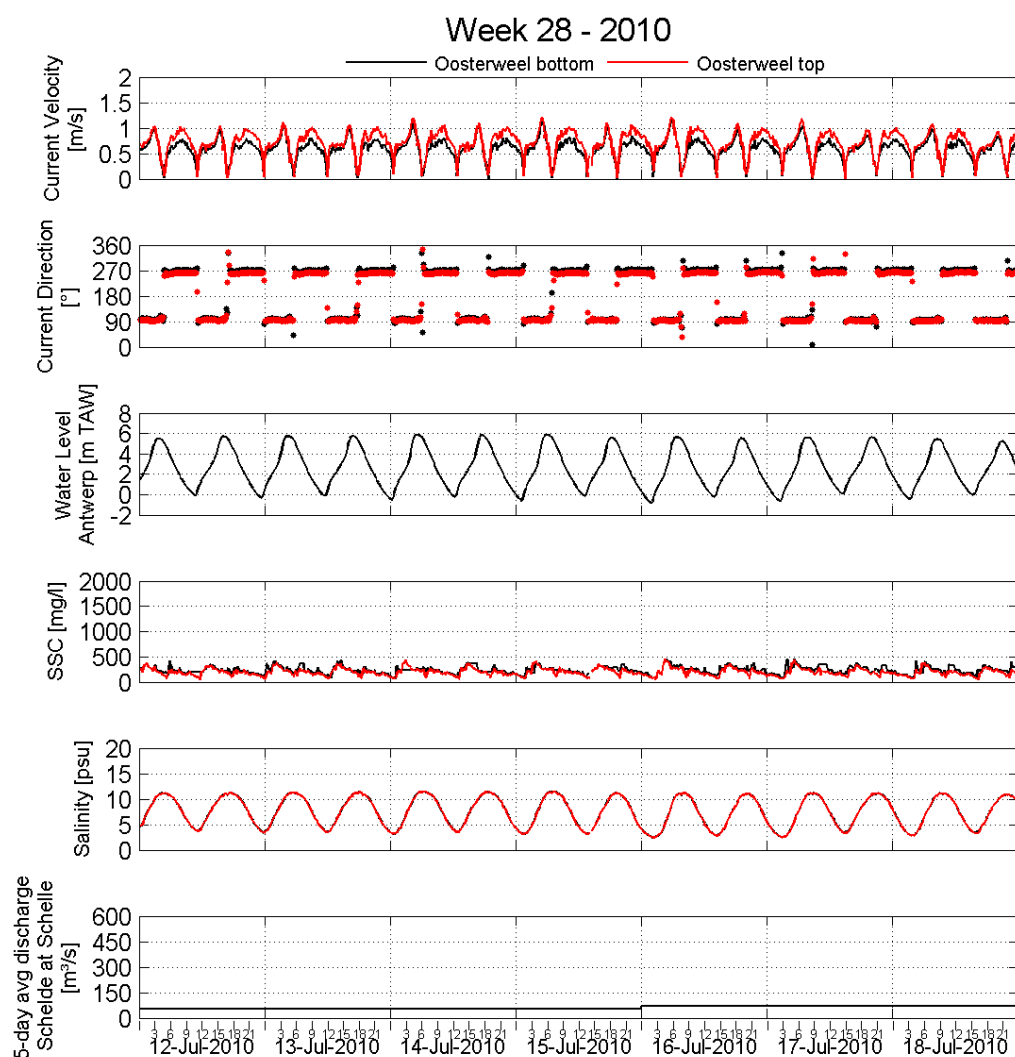


In Association with:



I/RA/11354/10.103/MBO/ANF

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tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

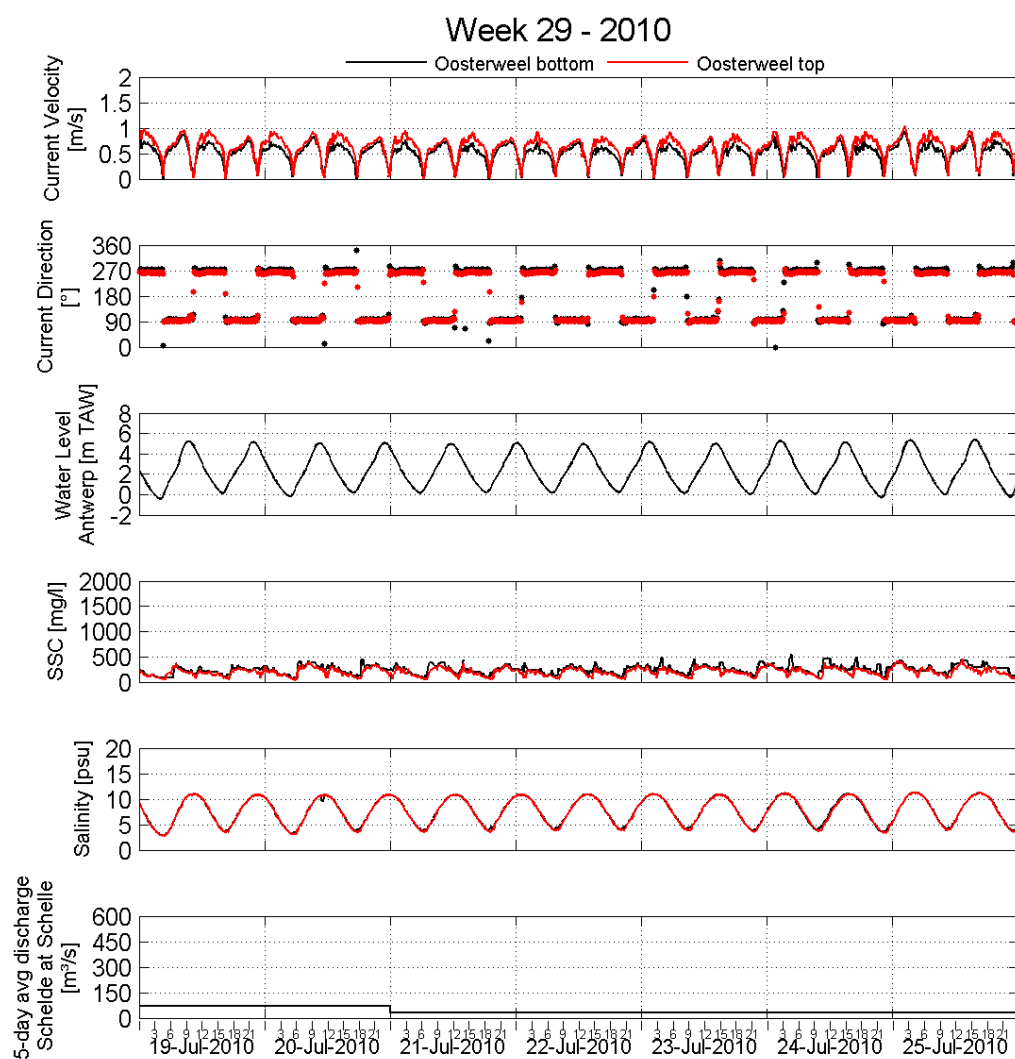


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

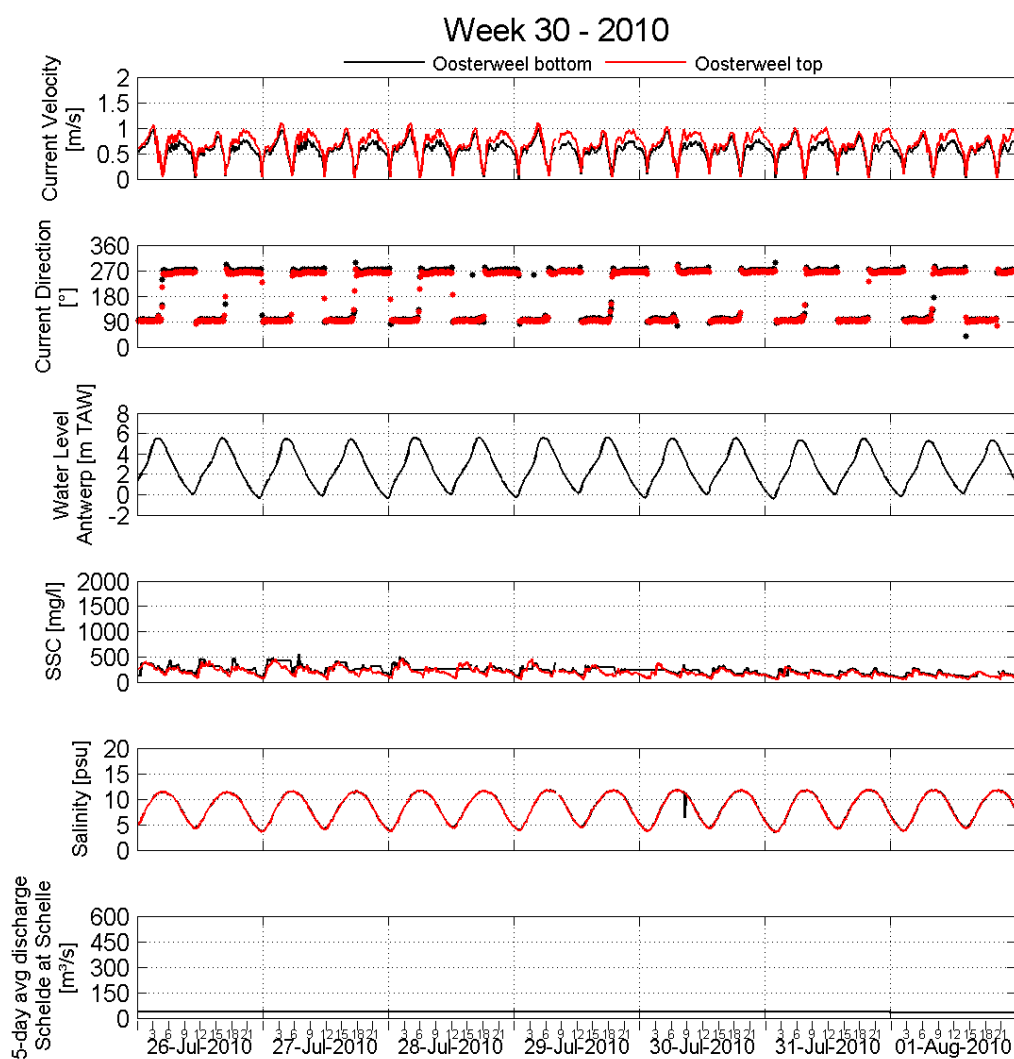


In Association with:



I/RA/11354/10.103/MBO/ANF

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Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

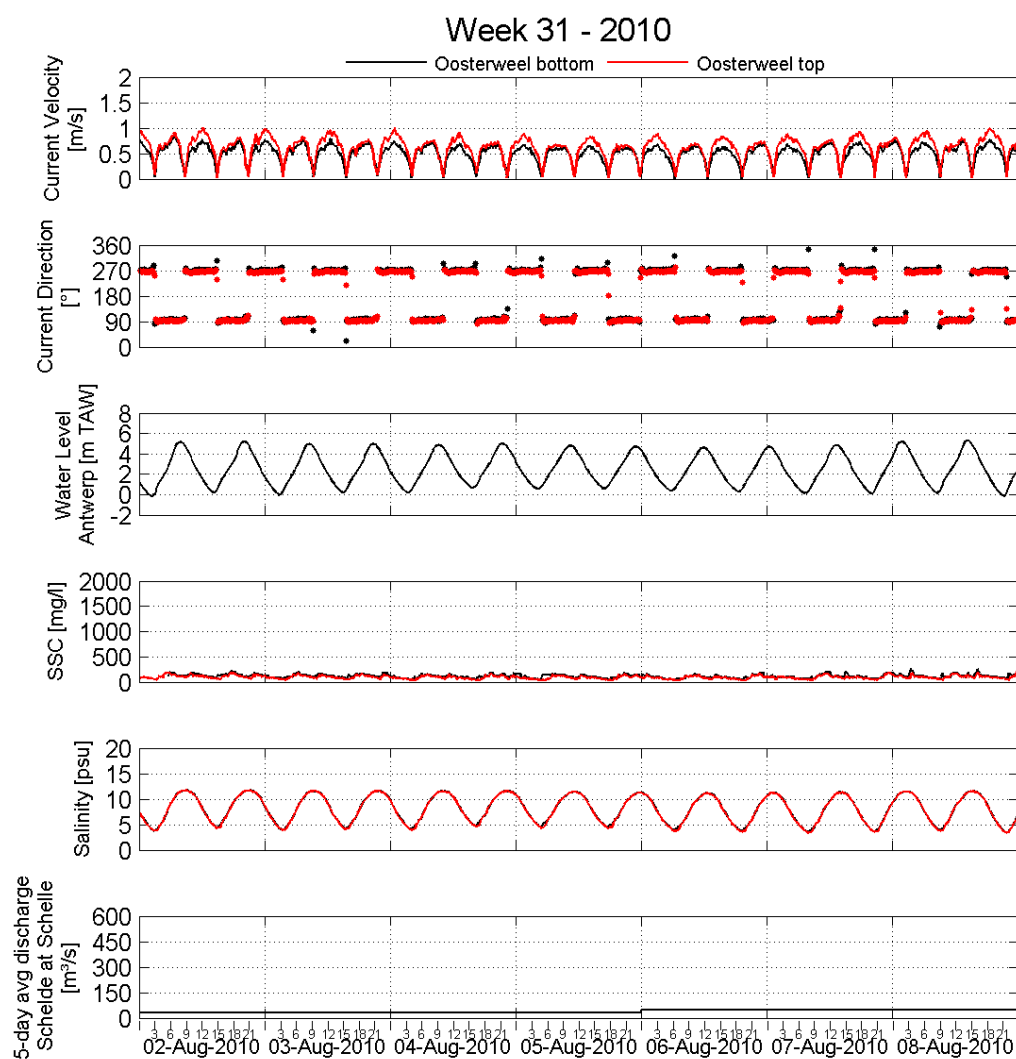


In Association with:



I/RA/11354/10.103/MBO/ANF

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Location:

Oosterweel (top & bottom)

Processed by:

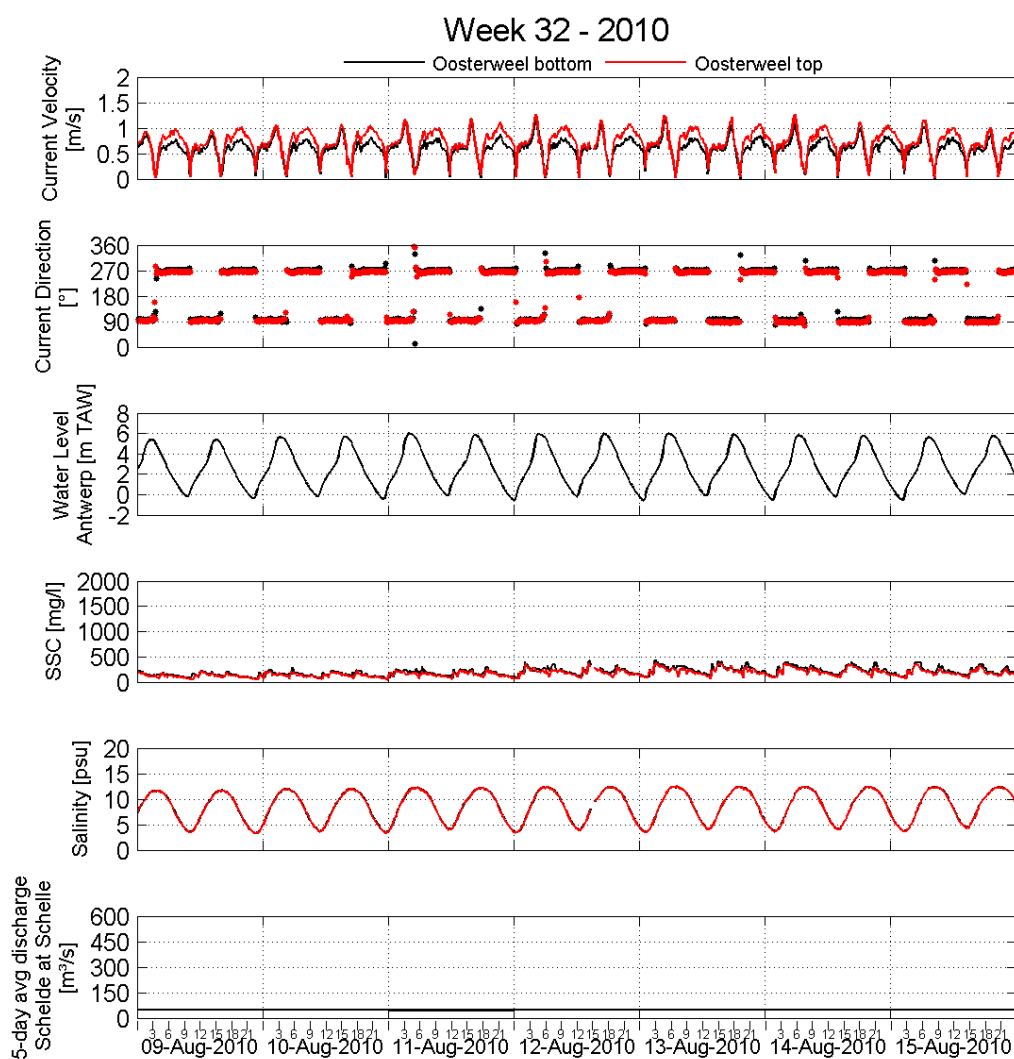


In Association with:



I/RA/11354/10.103/MBO/ANF

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Location:

Oosterweel (top & bottom)

Processed by:

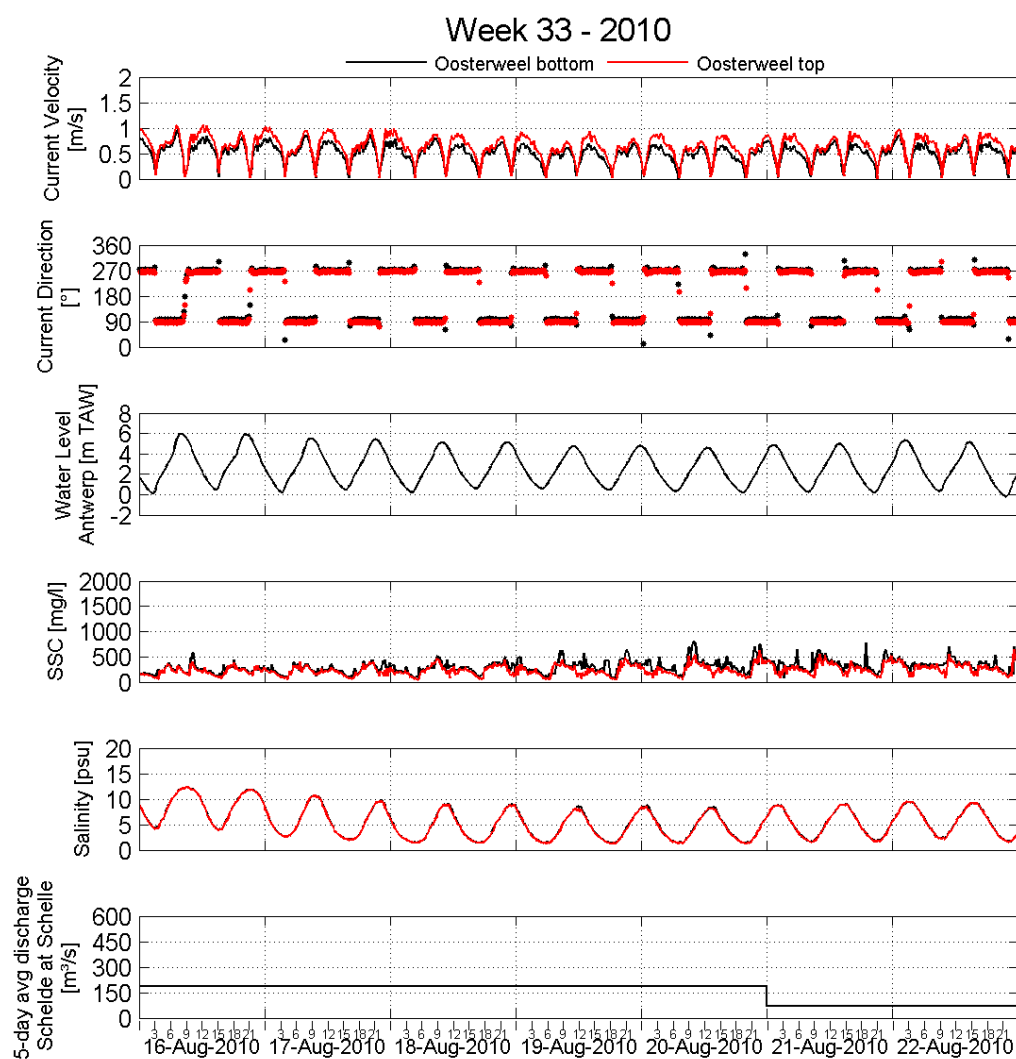


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tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

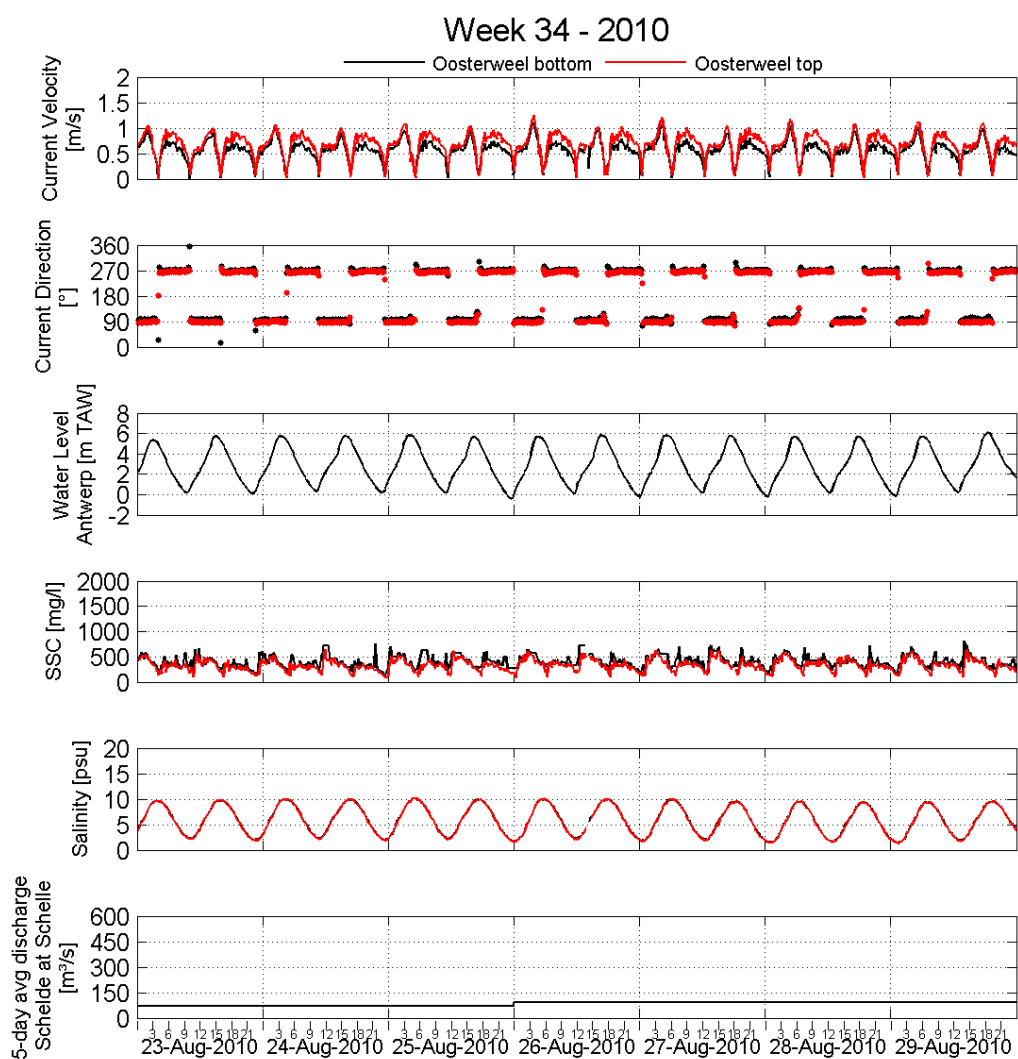


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I/RA/11354/10.103/MBO/ANF

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Processed by:

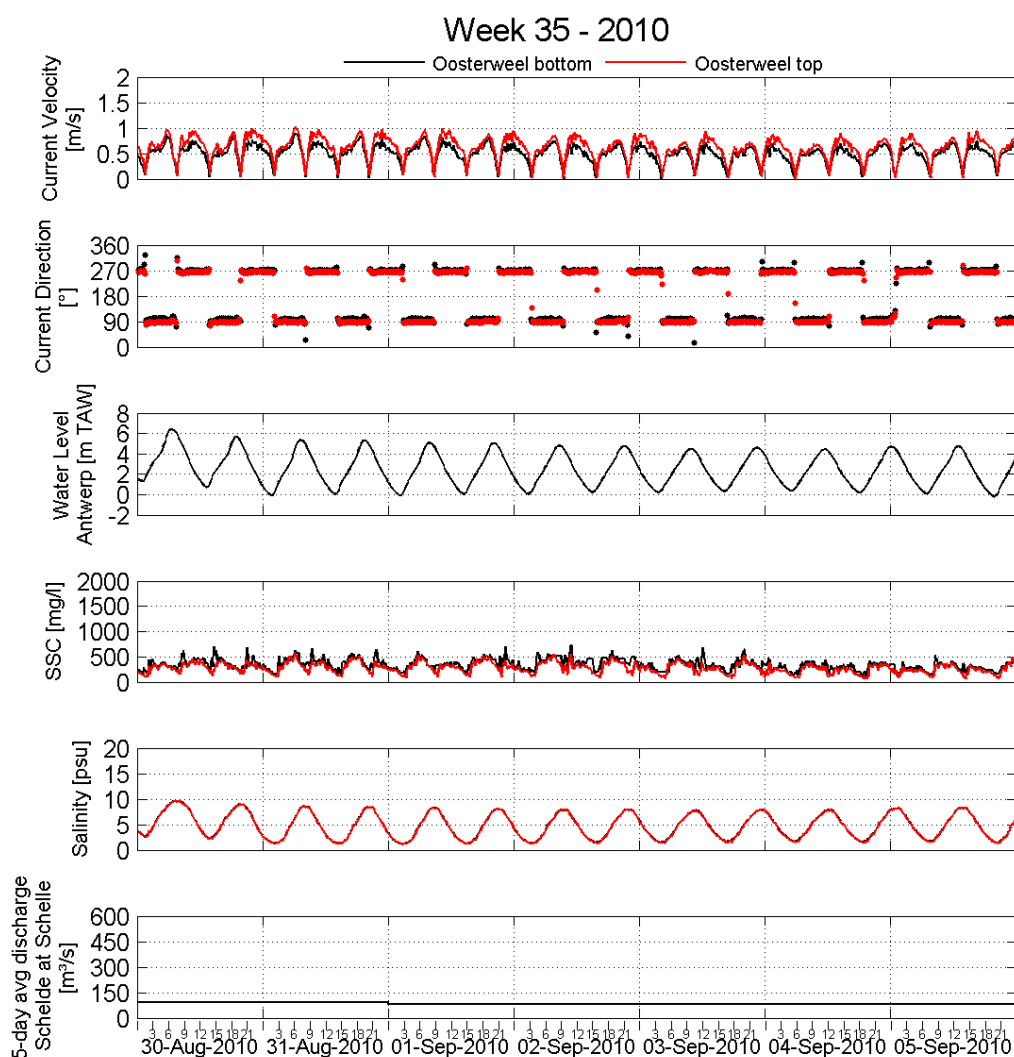


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Processed by:

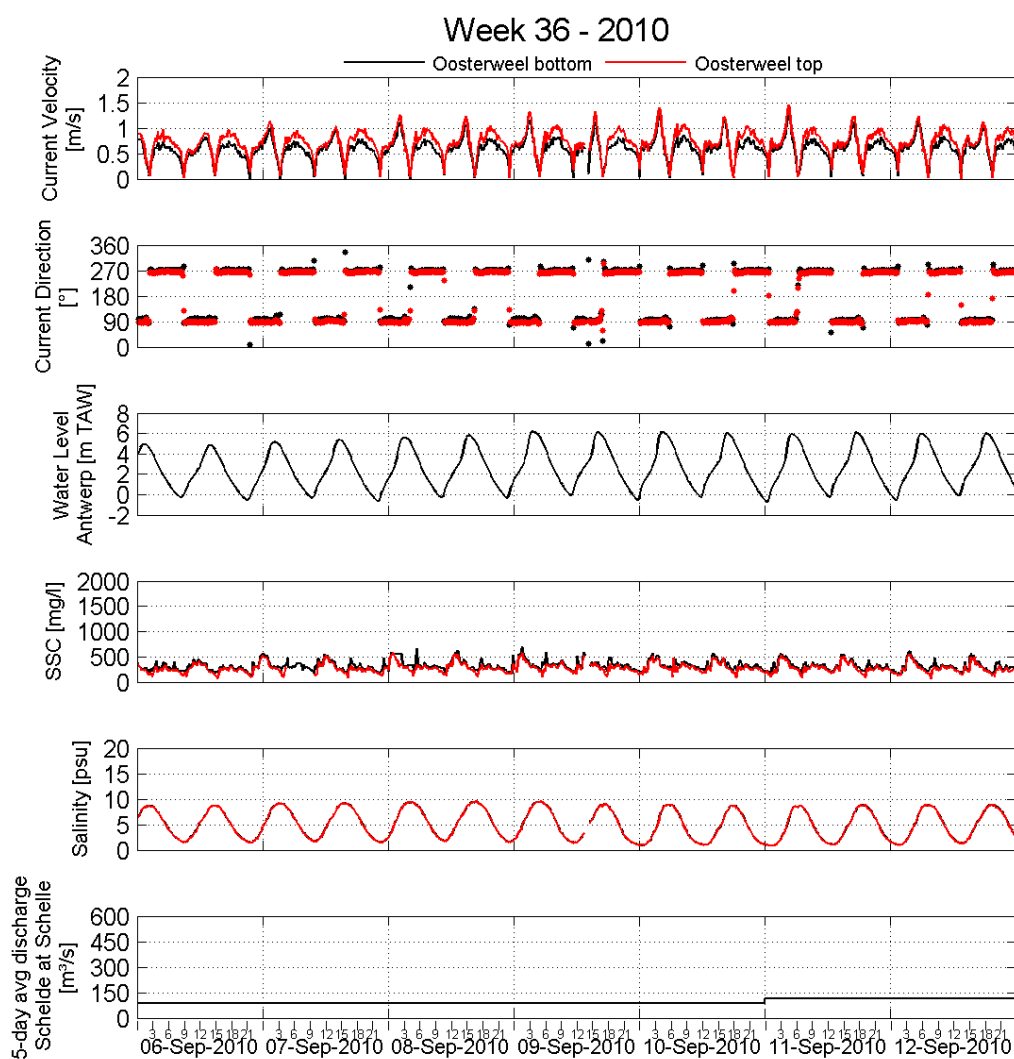


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Processed by:

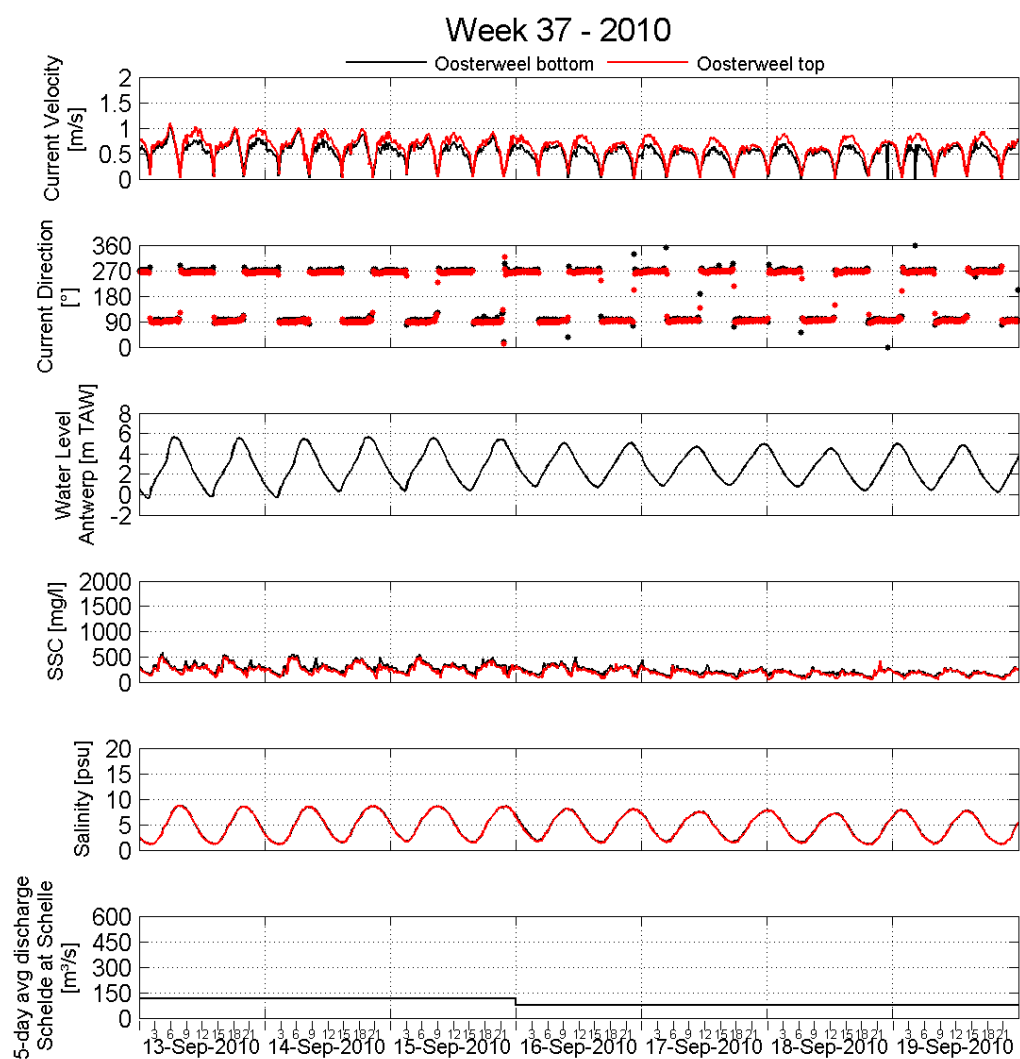


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Processed by:

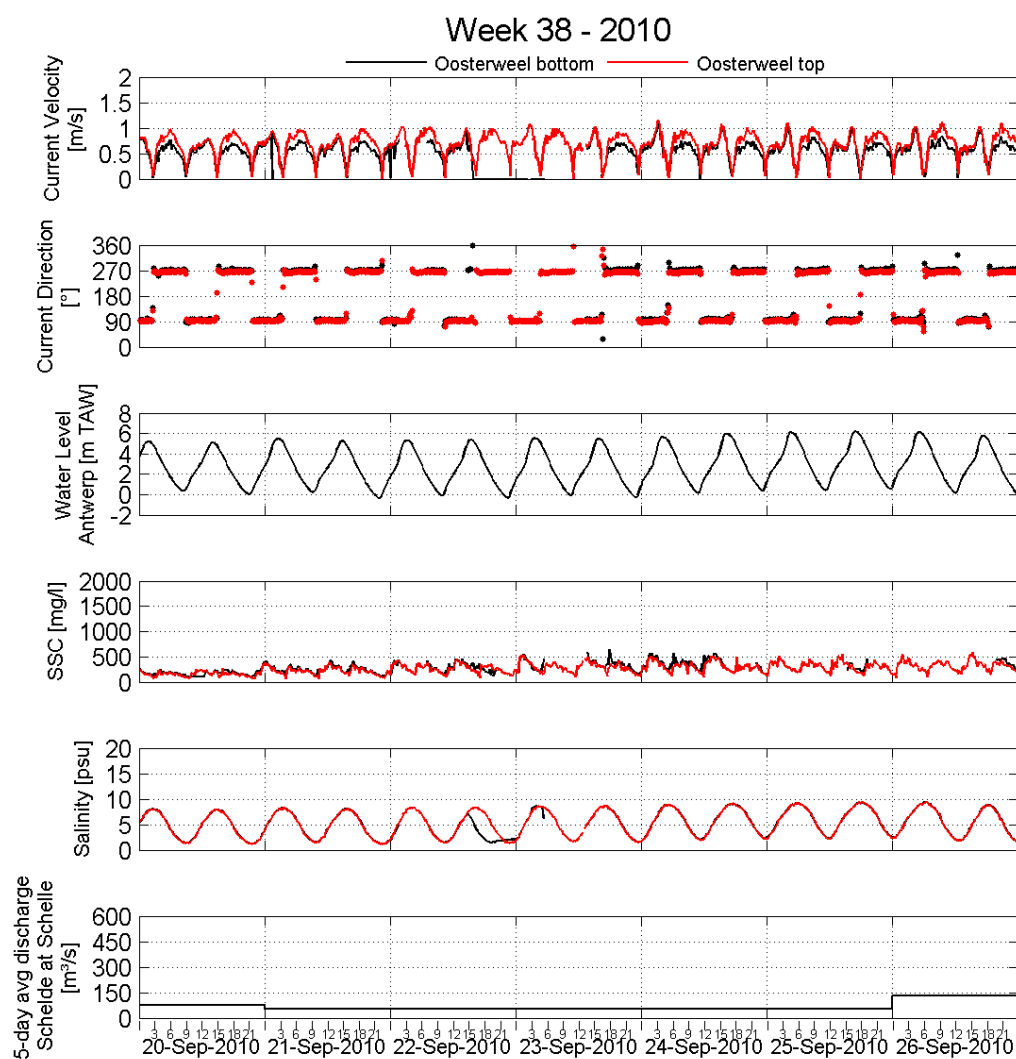


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tide, suspended sediment concentration,
salinity & discharge

Location:

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Processed by:

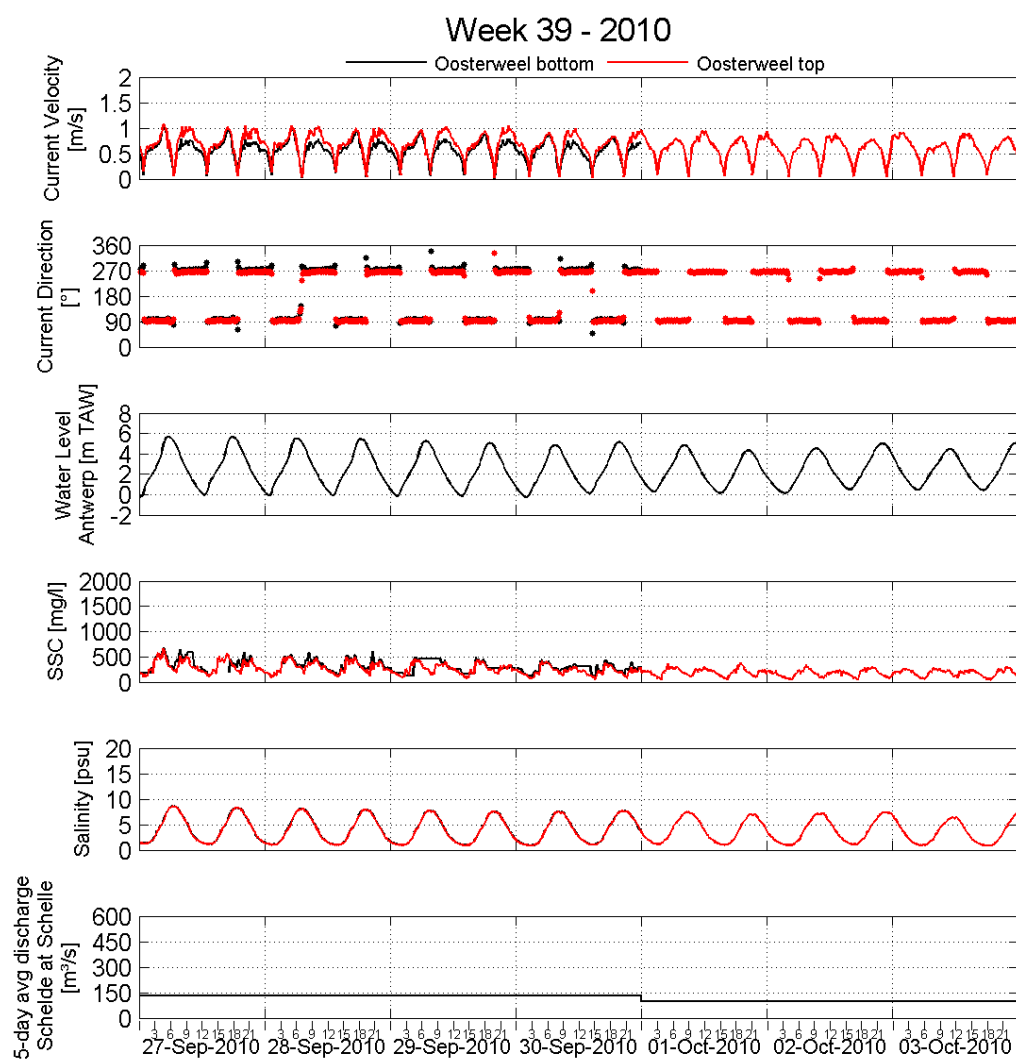


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Location:

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Processed by:

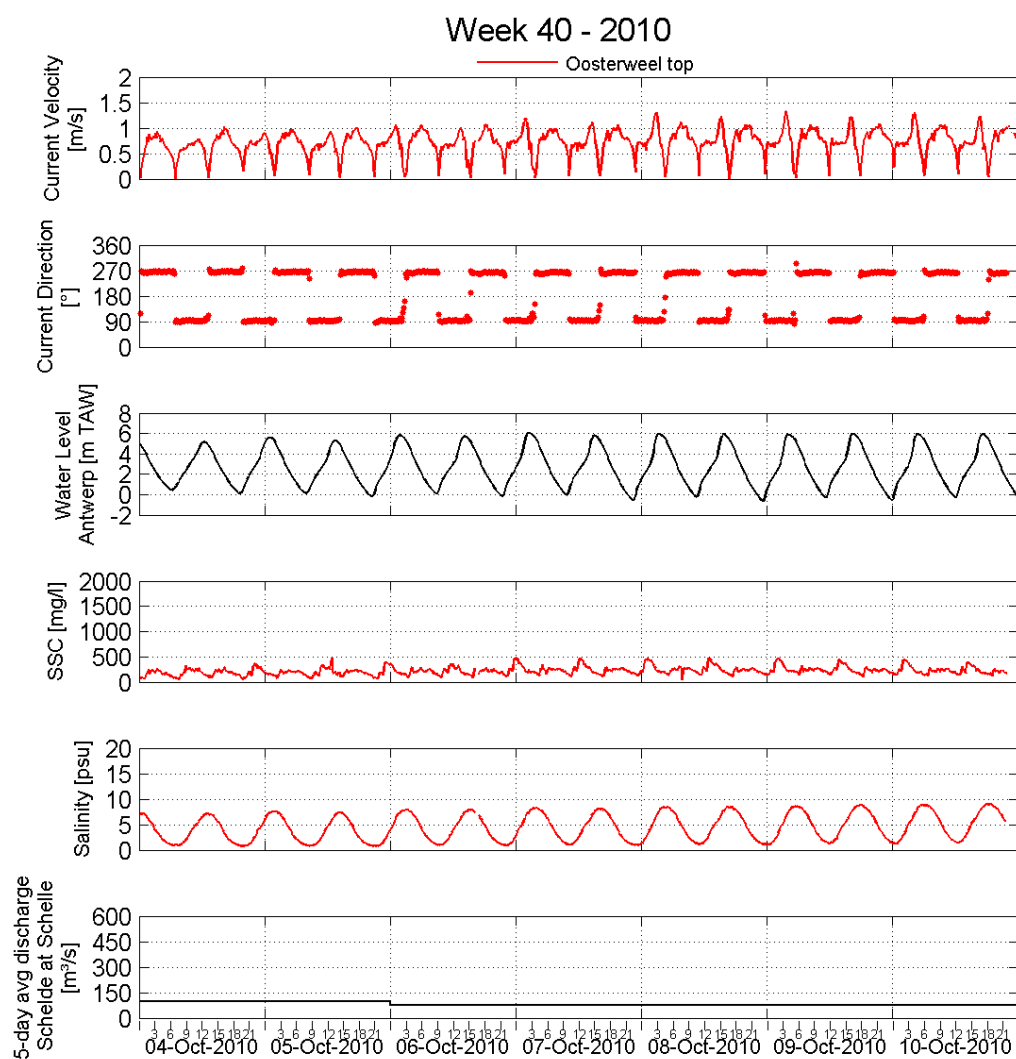


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Processed by:

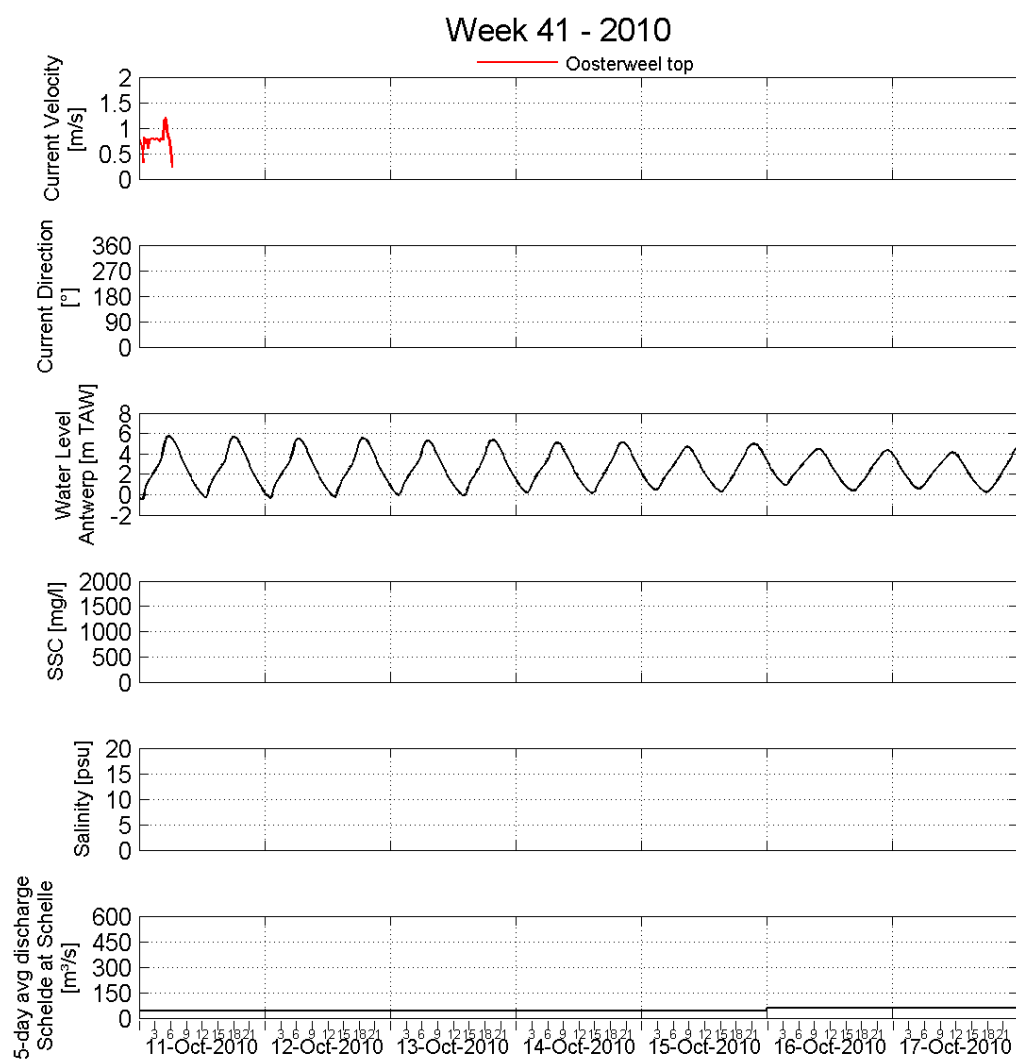


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Processed by:

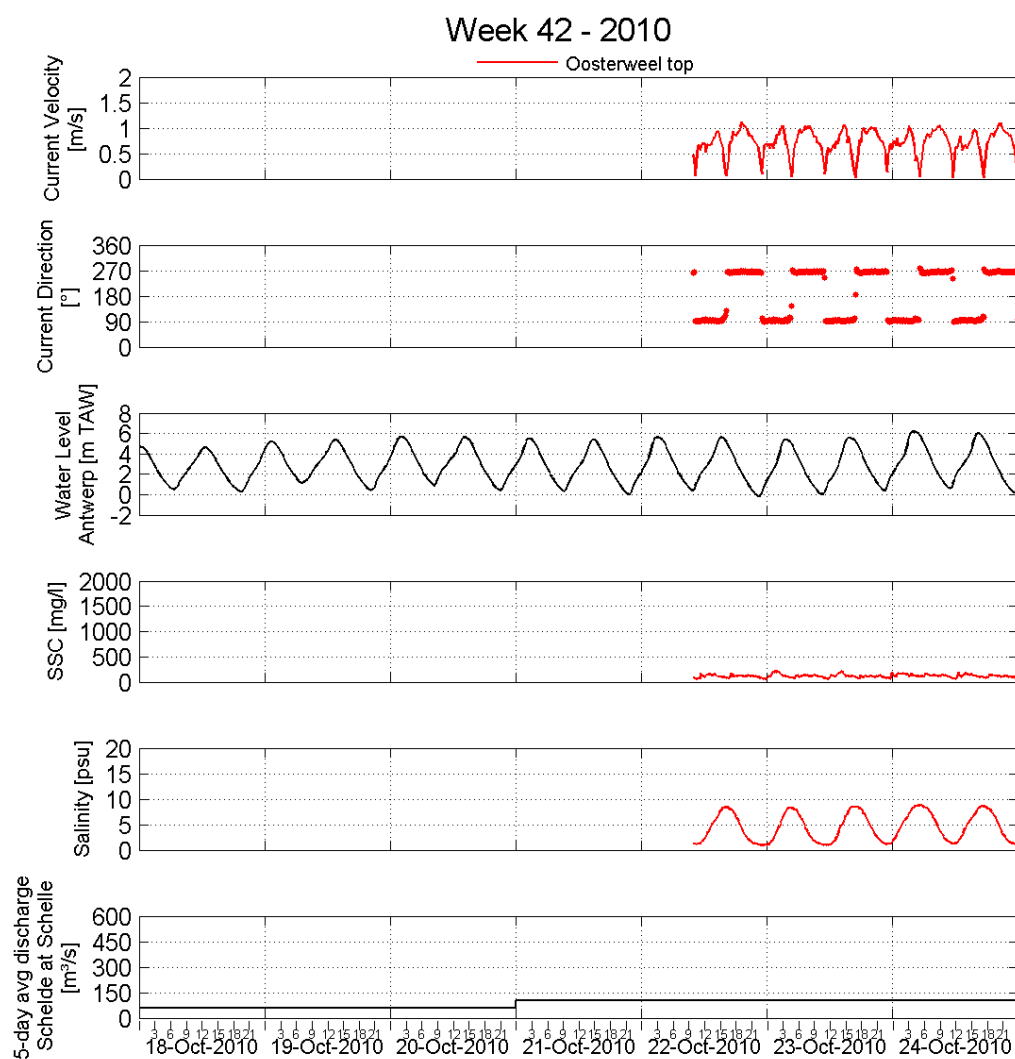


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Processed by:

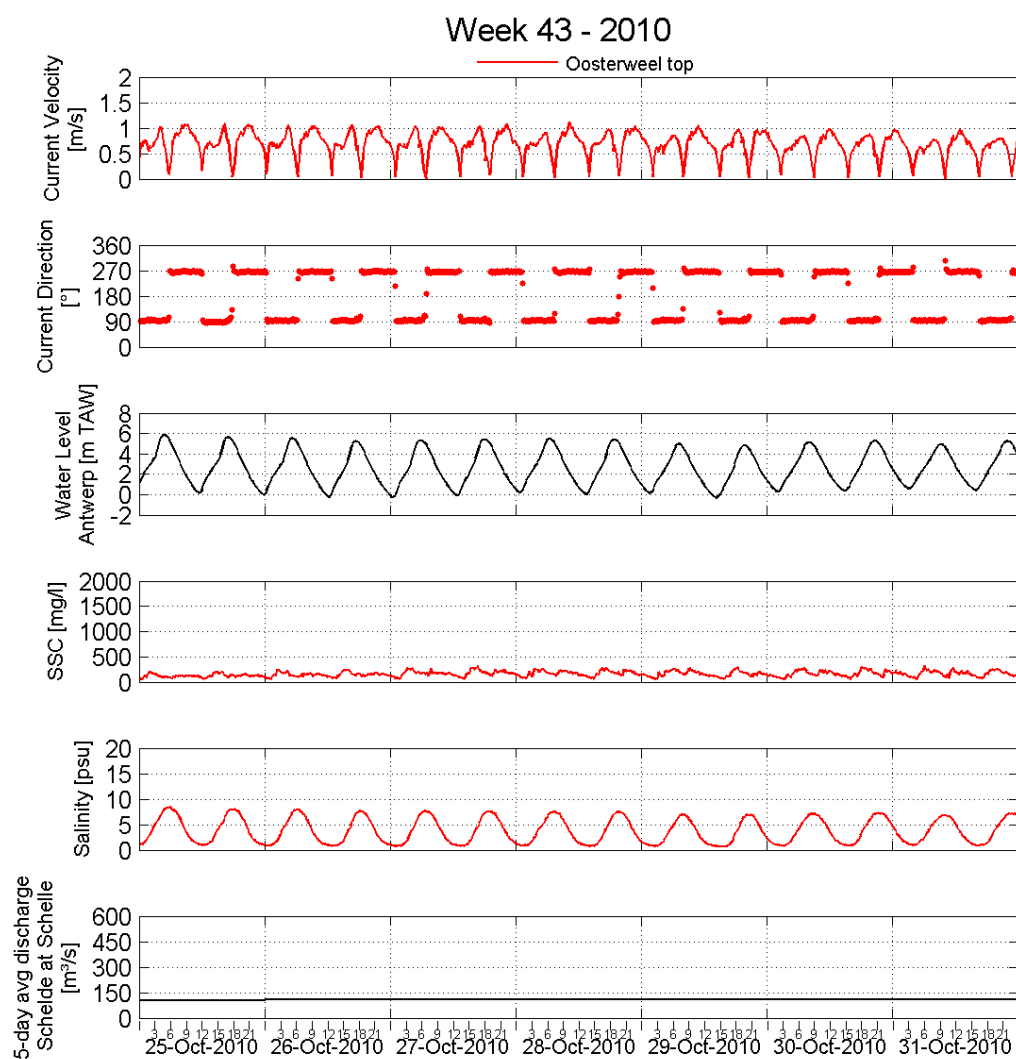


In Association with:



I/RA/11354/10.103/MBO/ANF

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Week series: current velocity & direction,
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salinity & discharge

Location:

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Processed by:

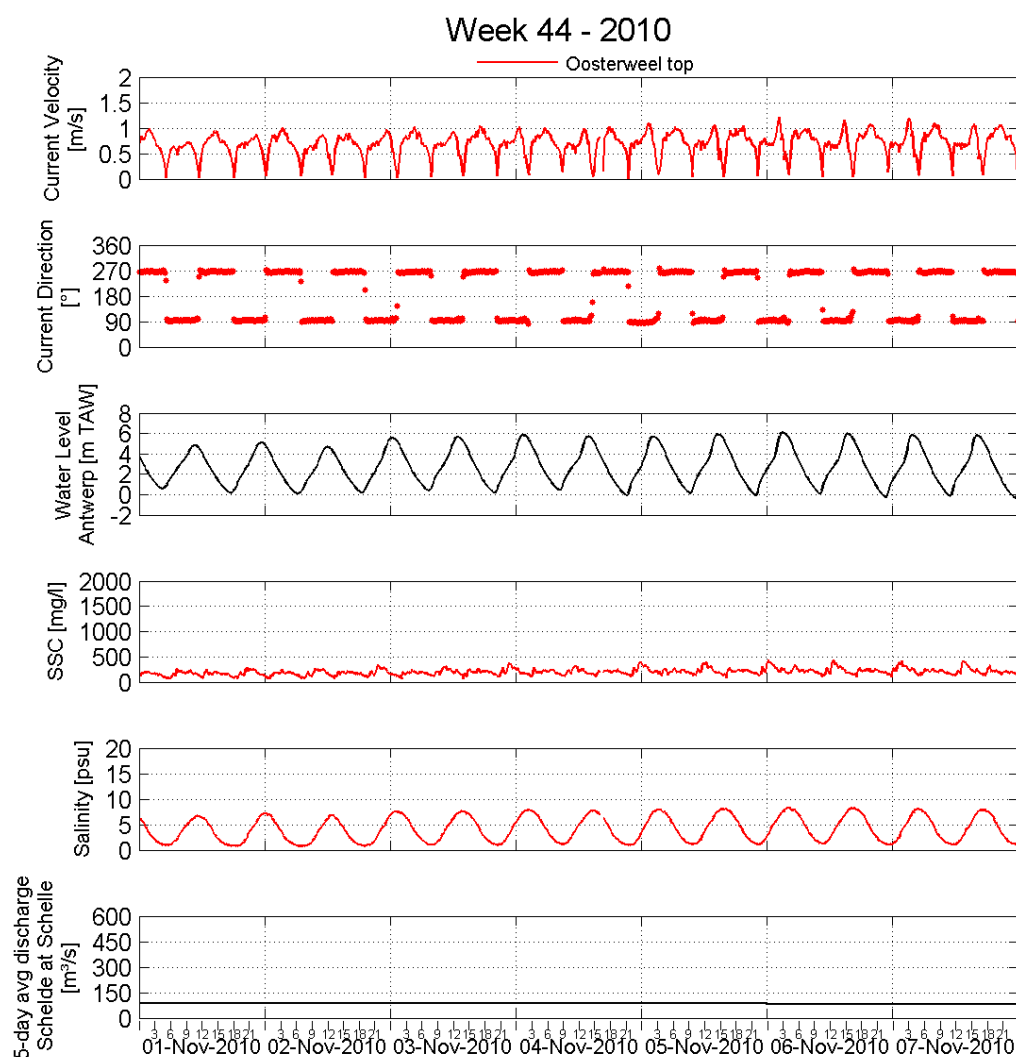


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Processed by:

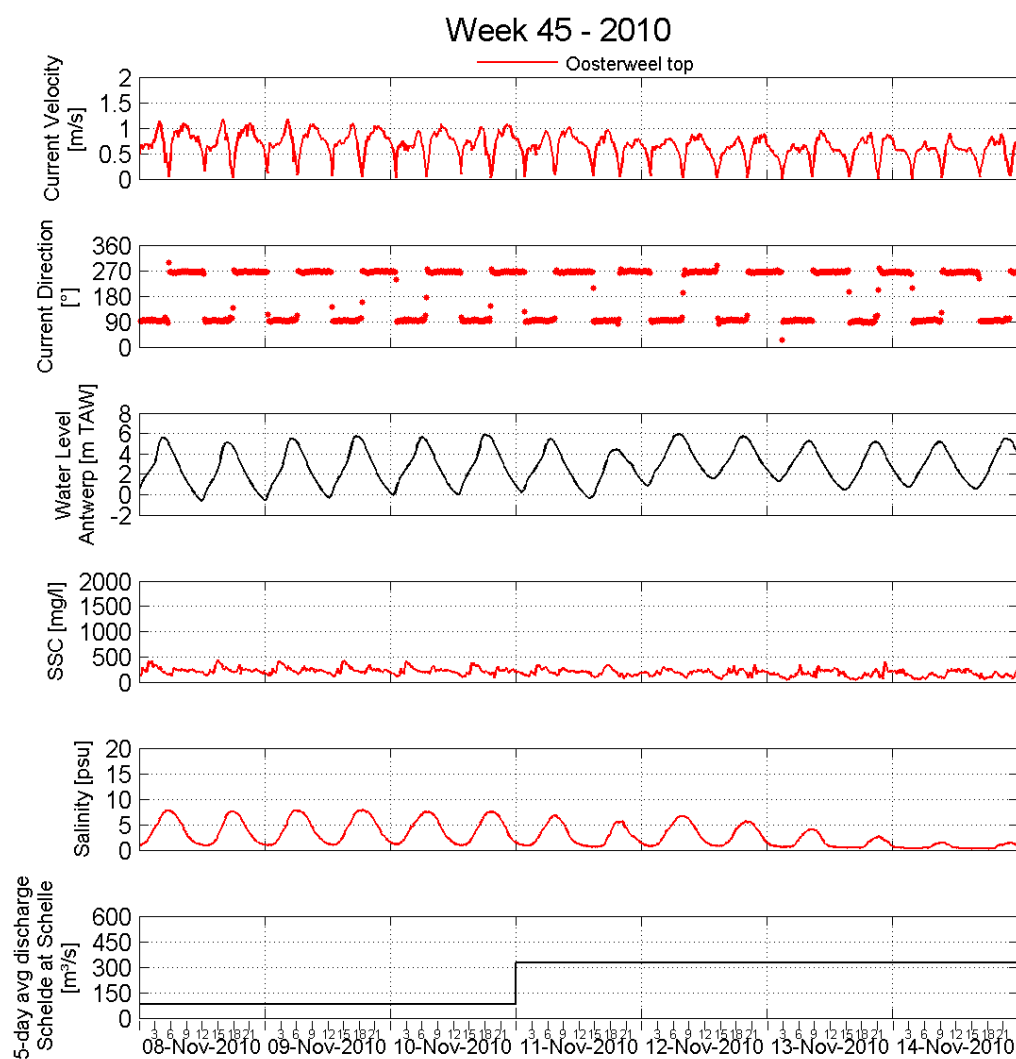


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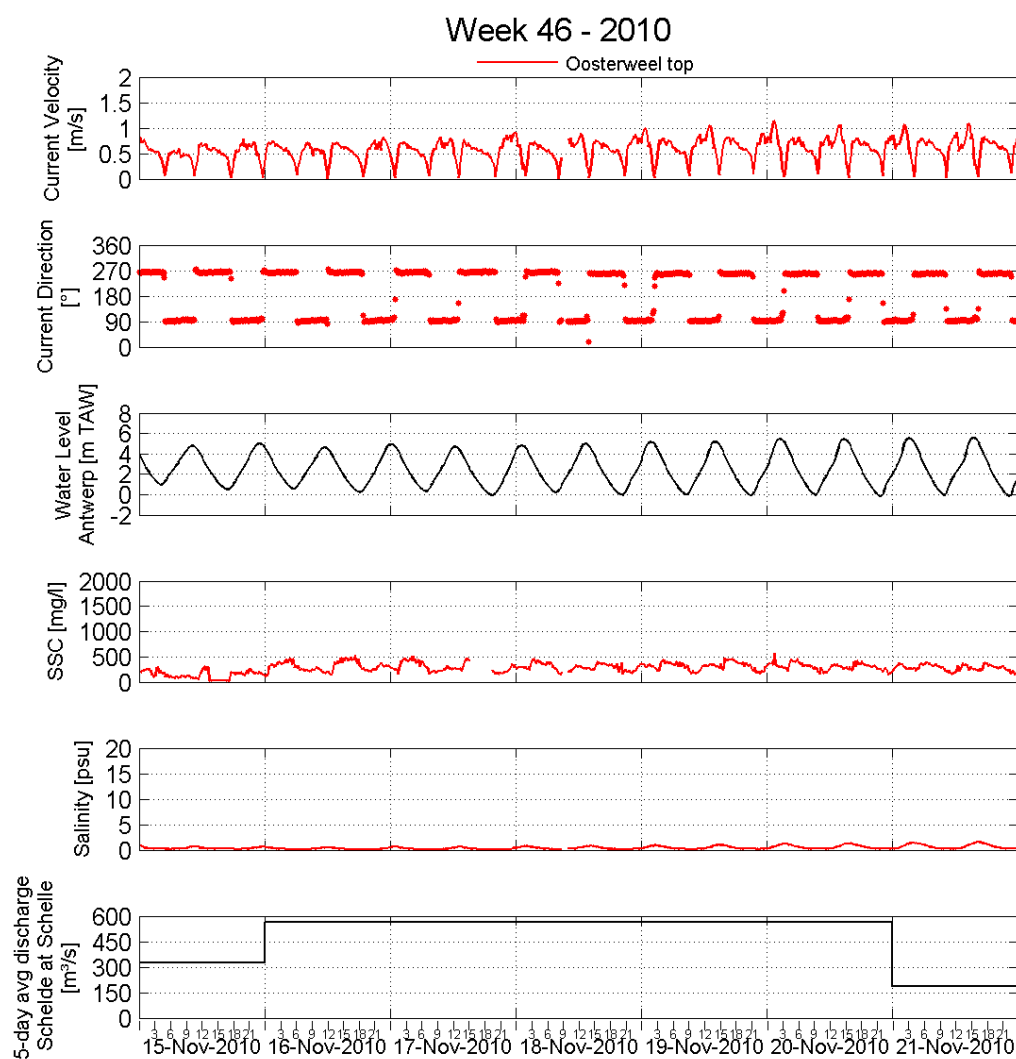


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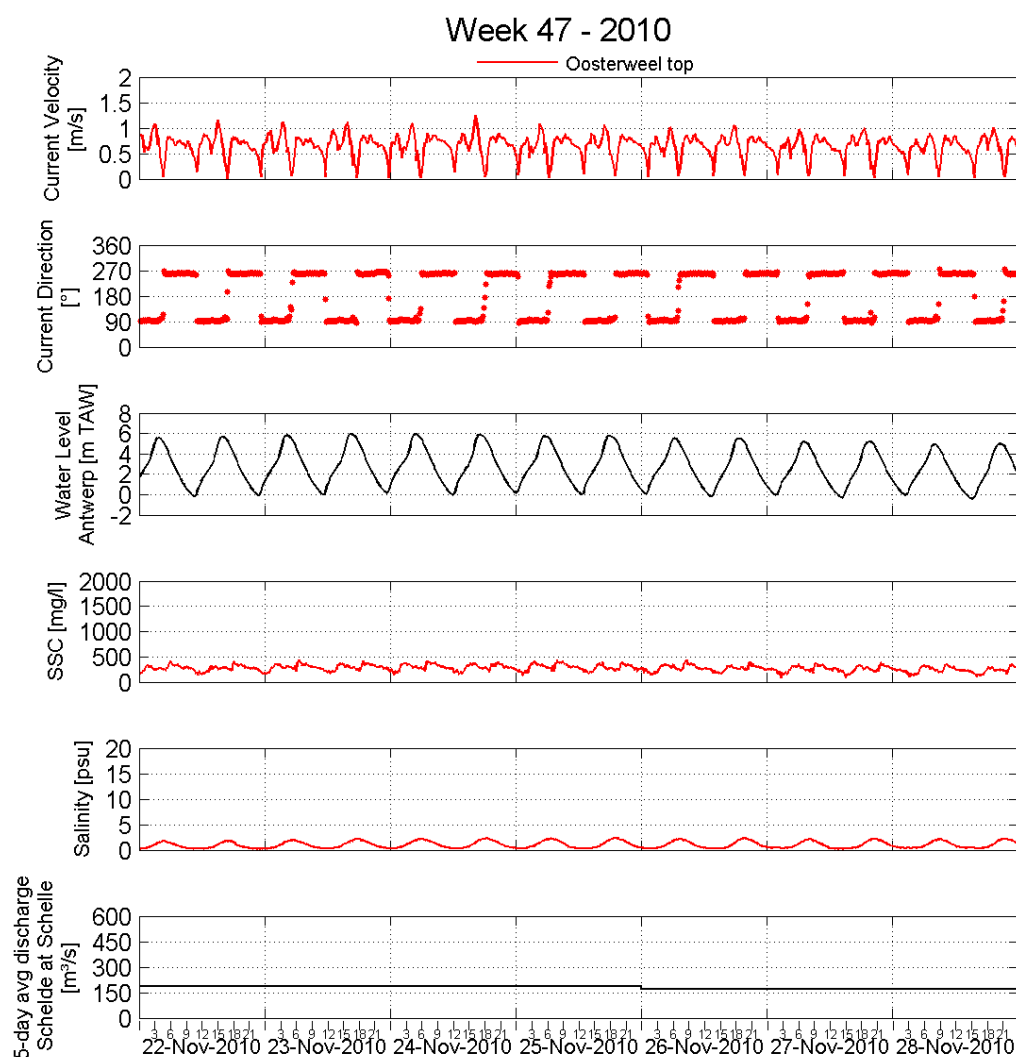


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Processed by:

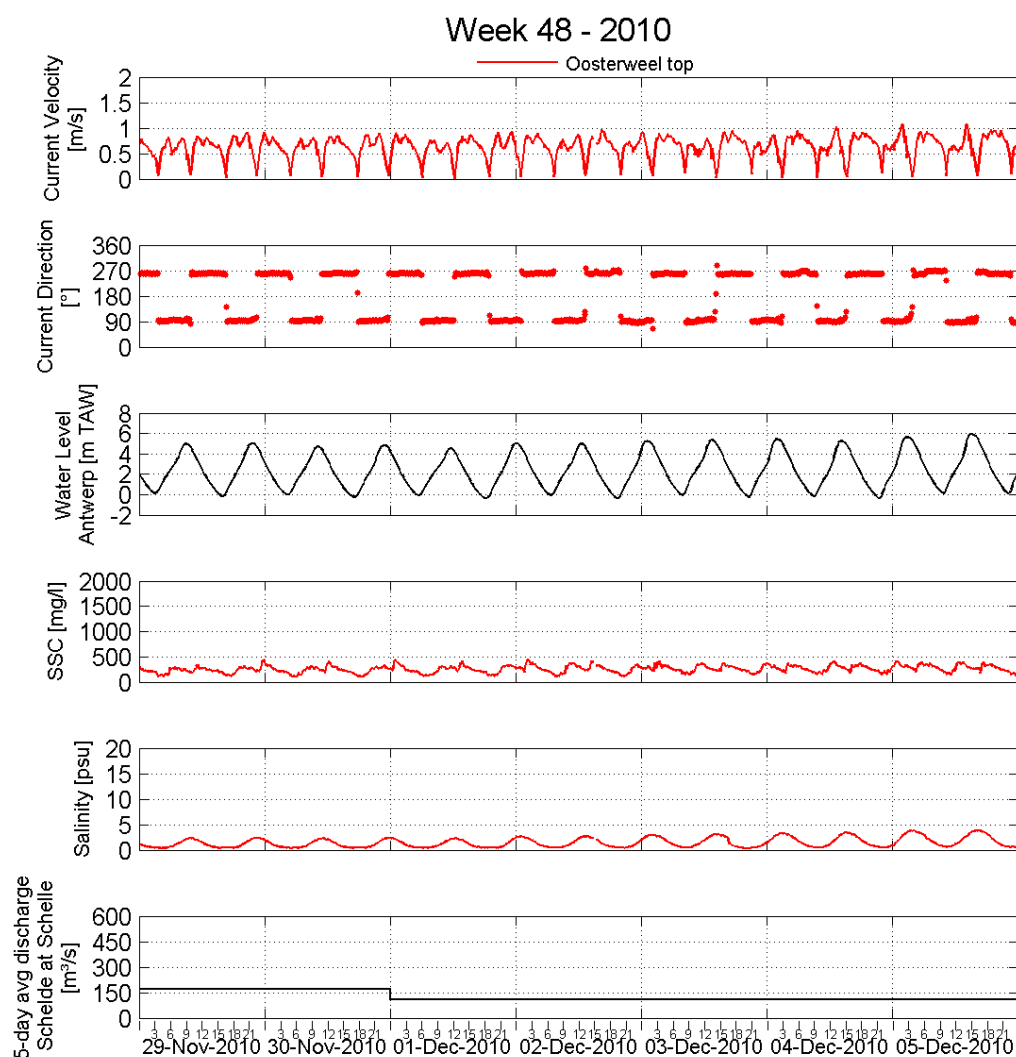


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Processed by:

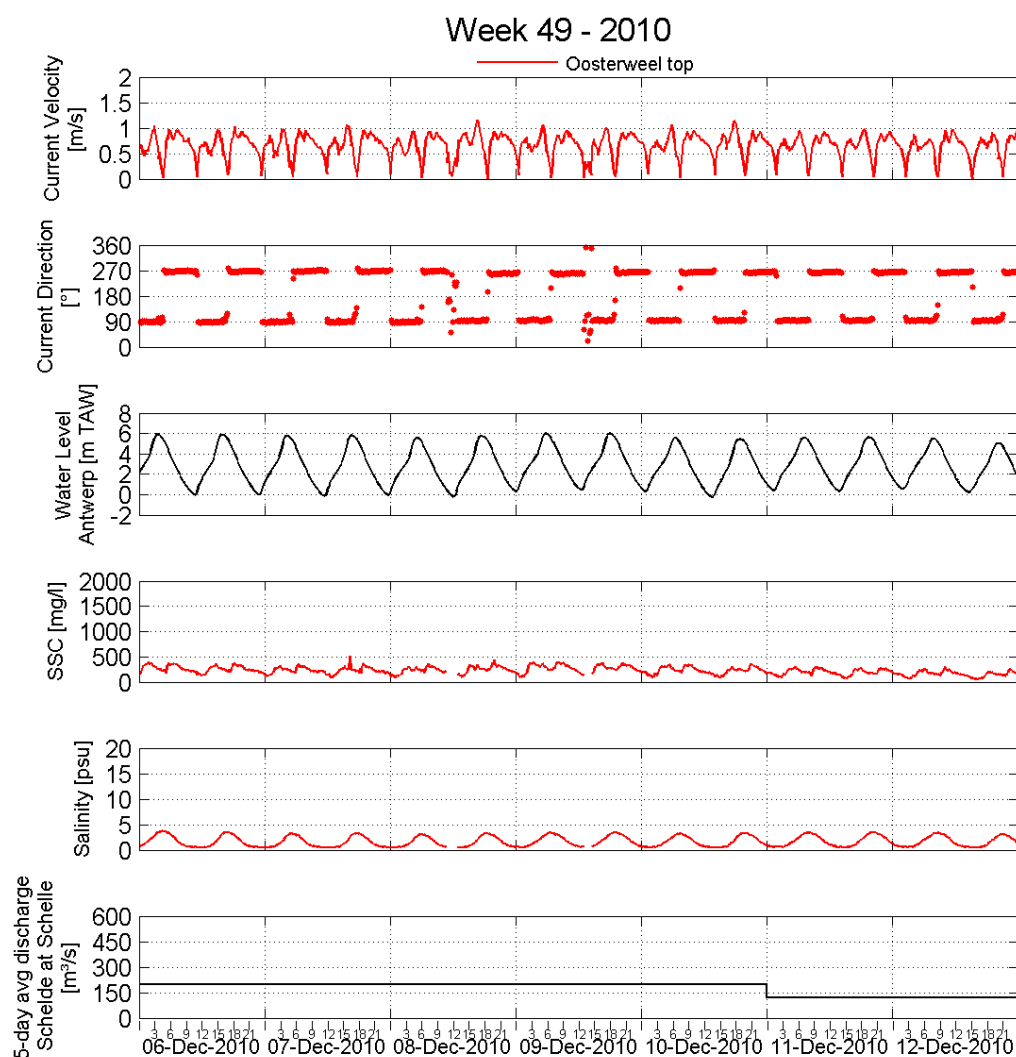


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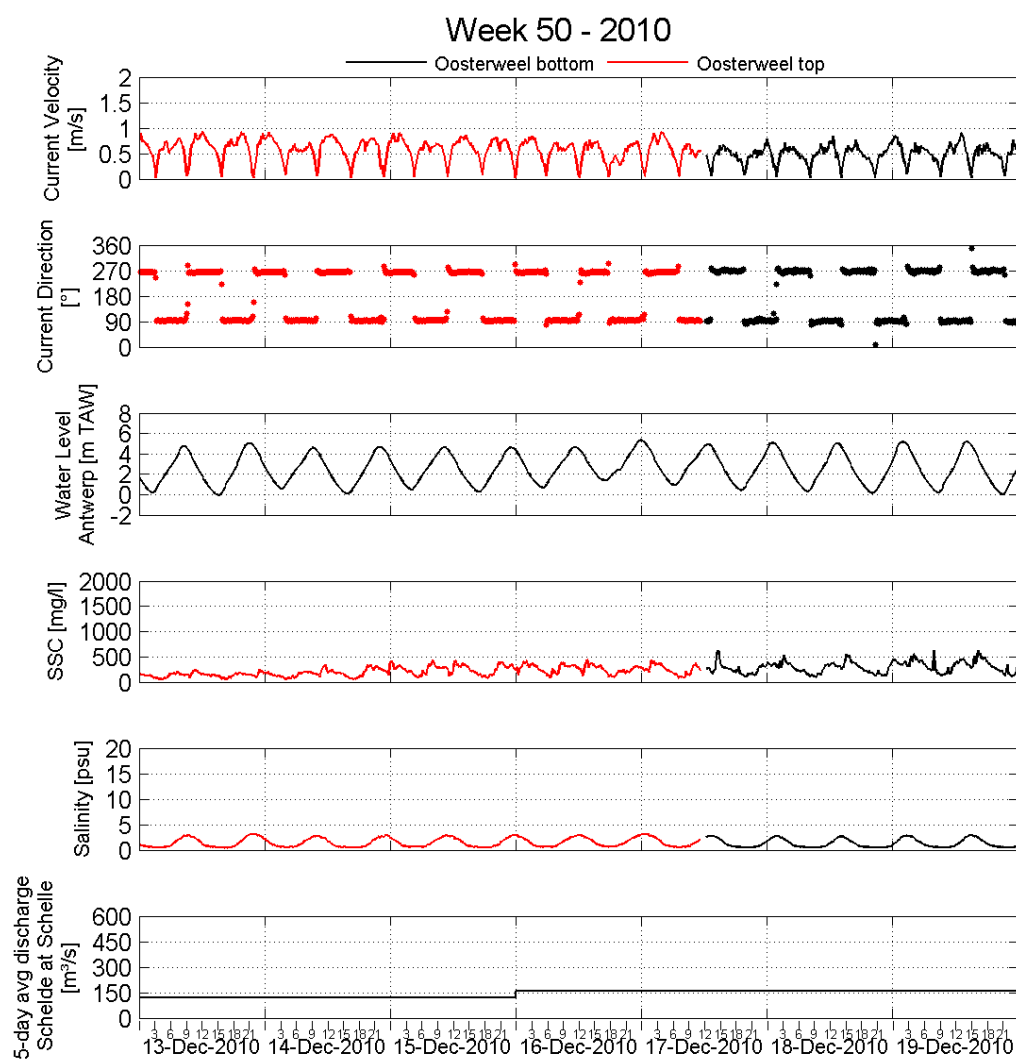


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Processed by:

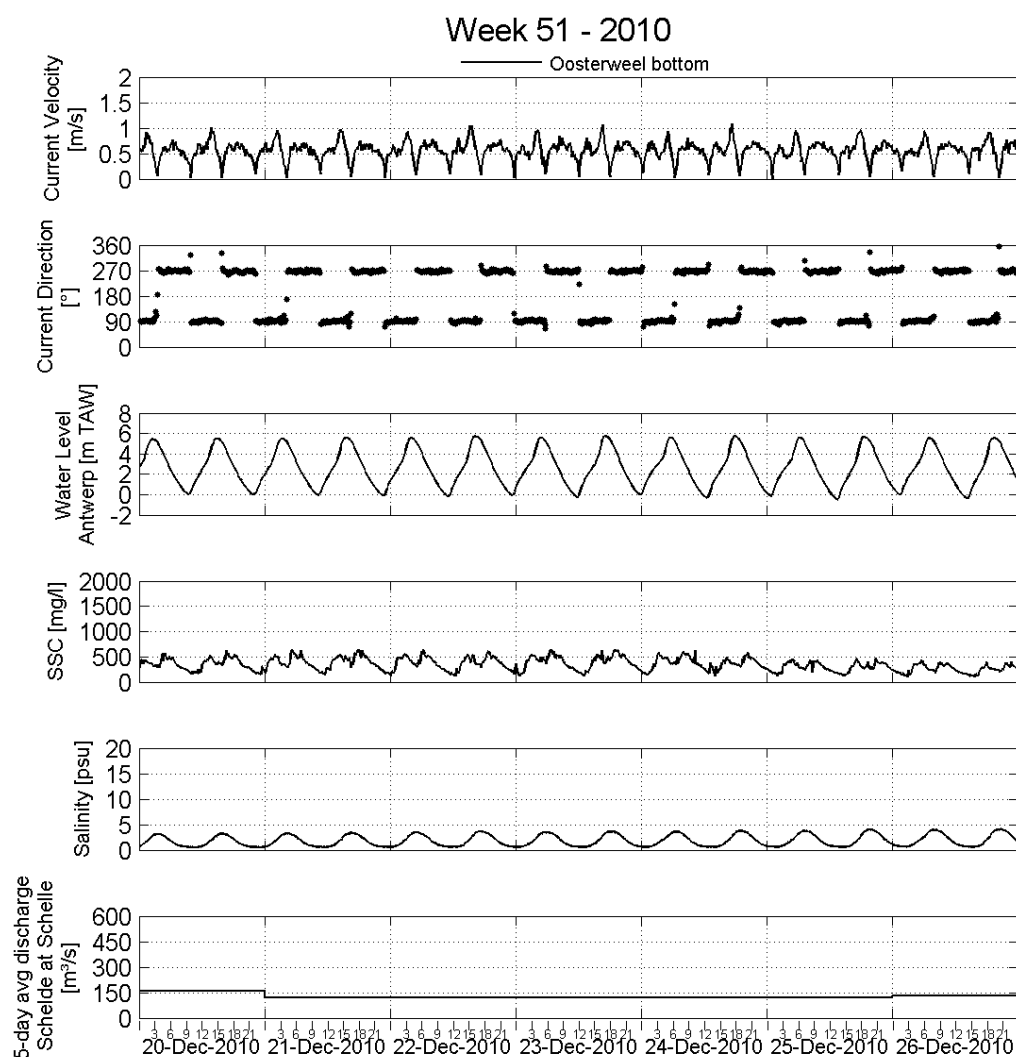


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Processed by:

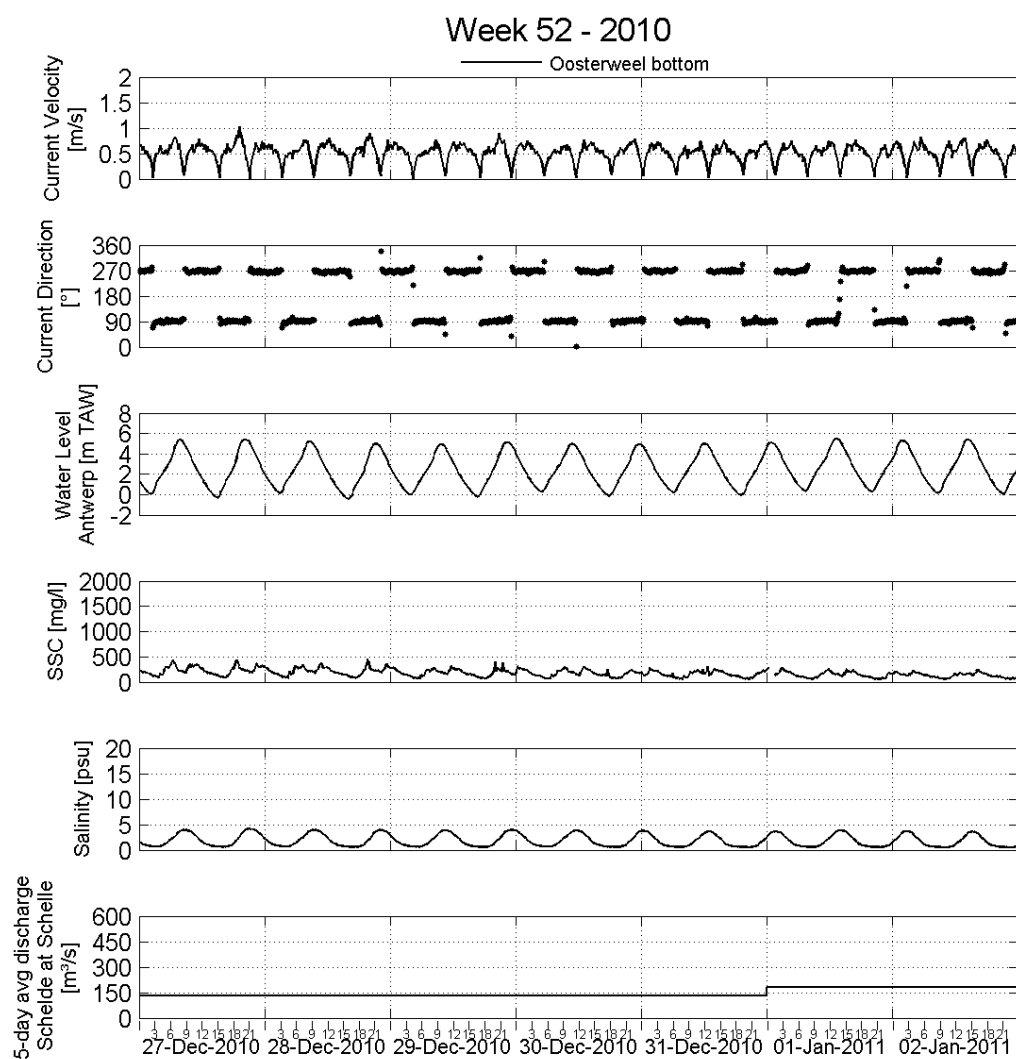


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Processed by:

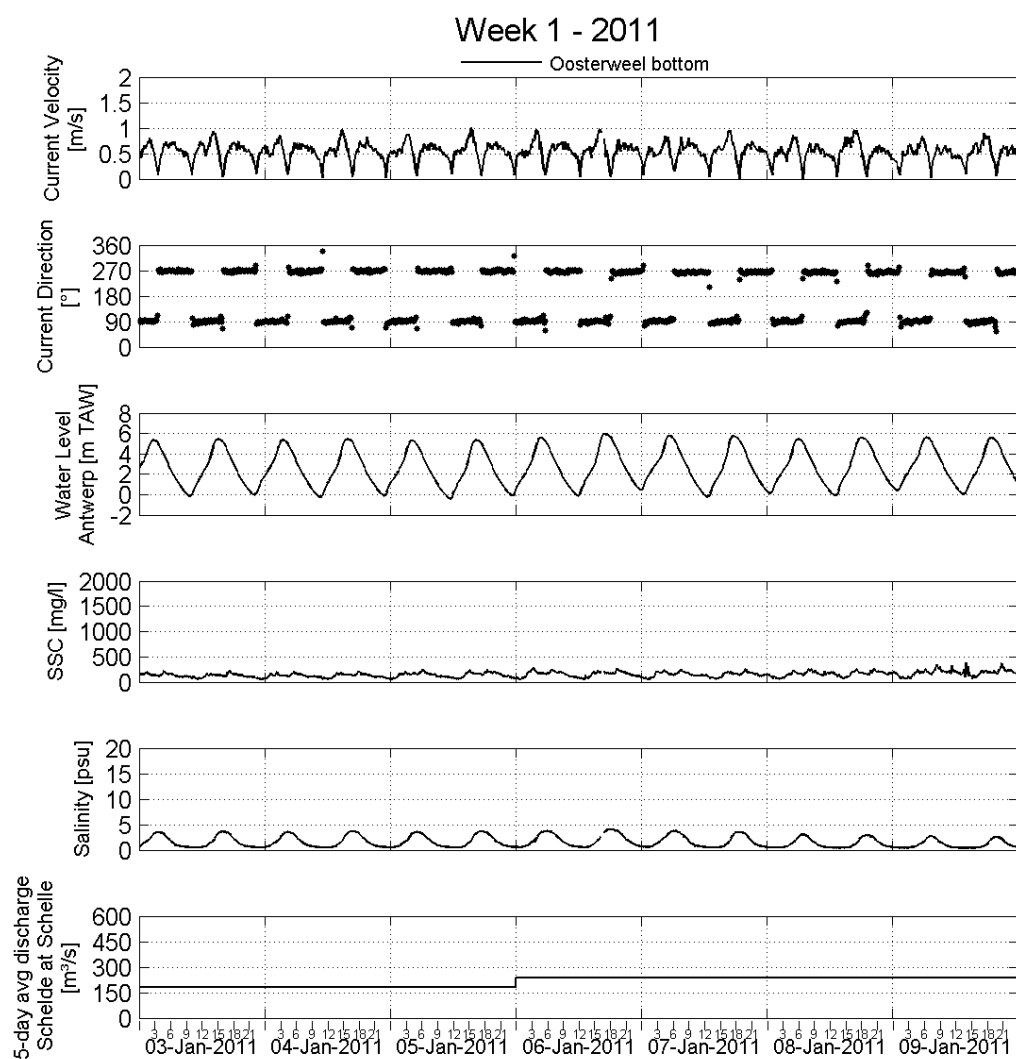


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Processed by:

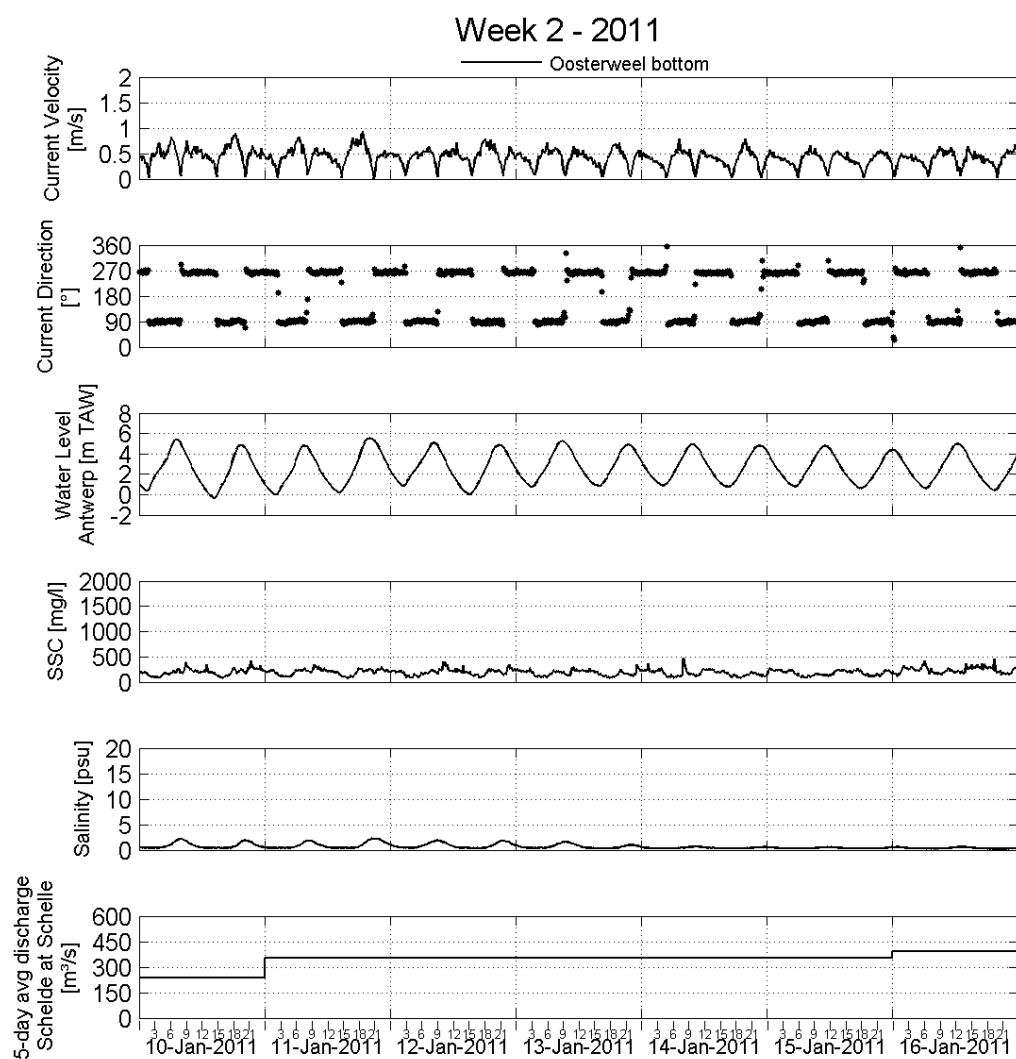


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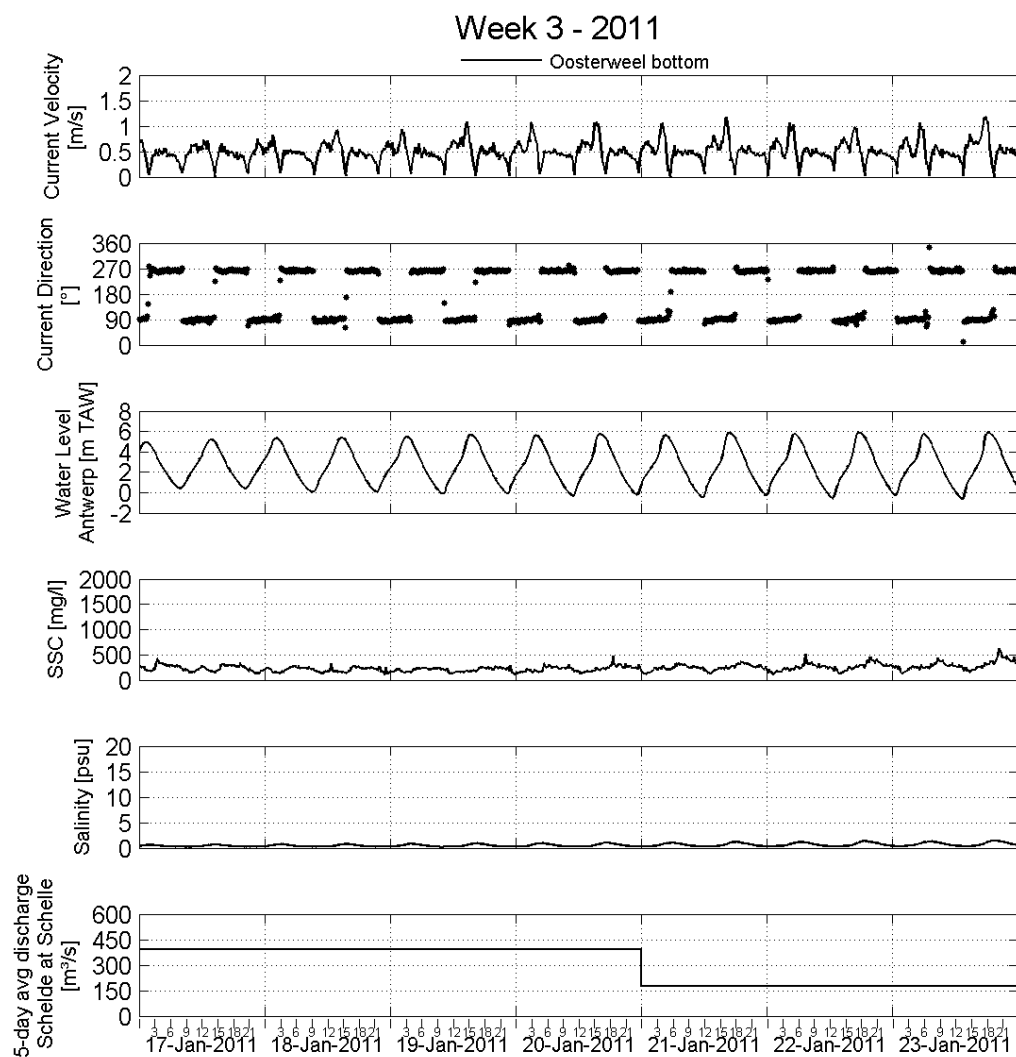


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Processed by:

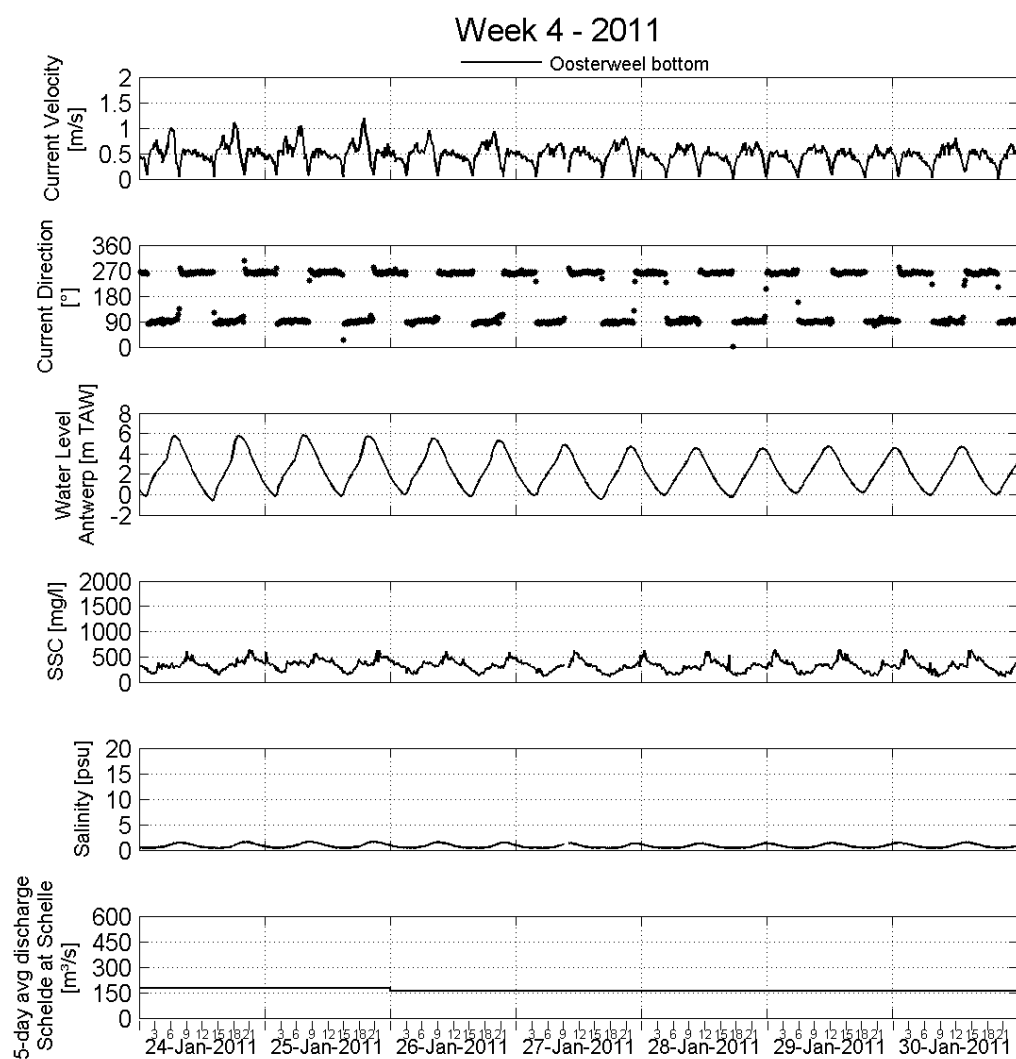


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Processed by:

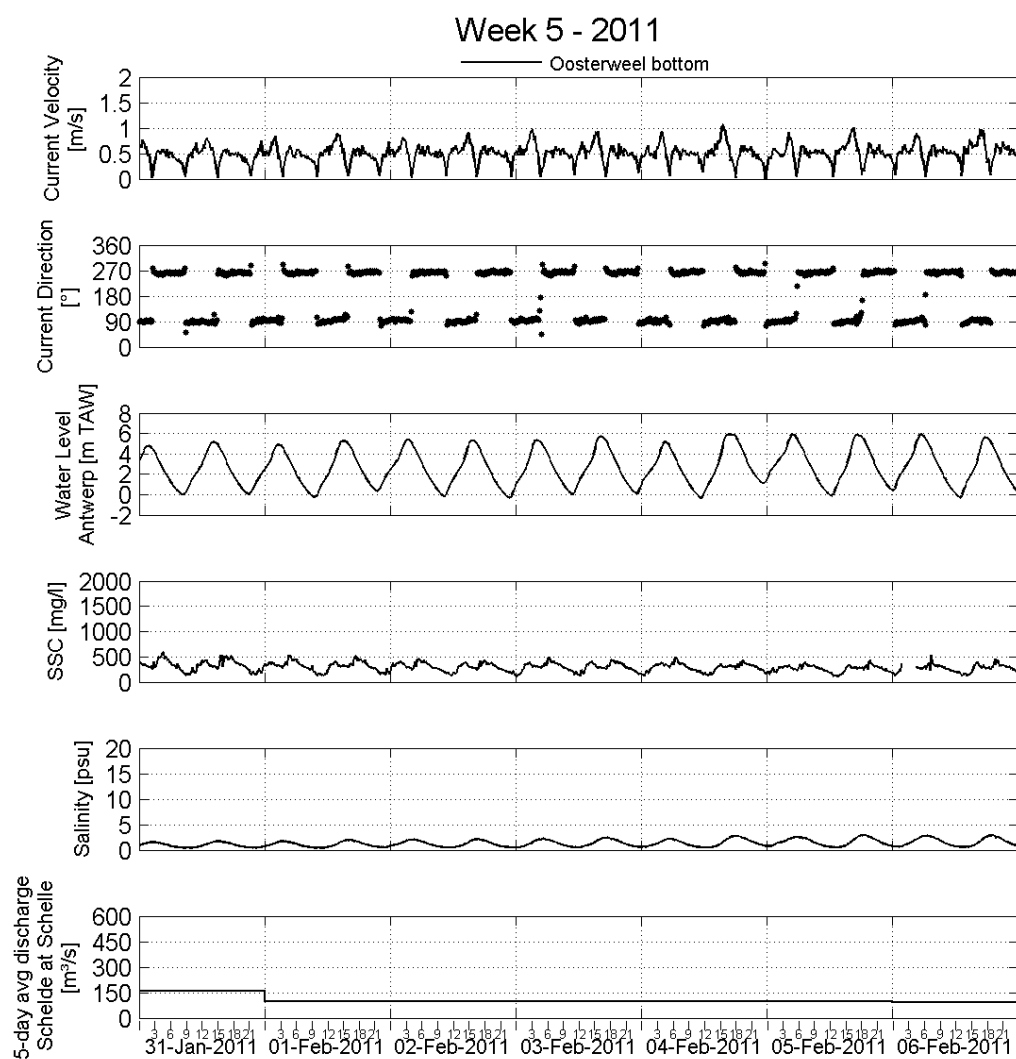


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Processed by:

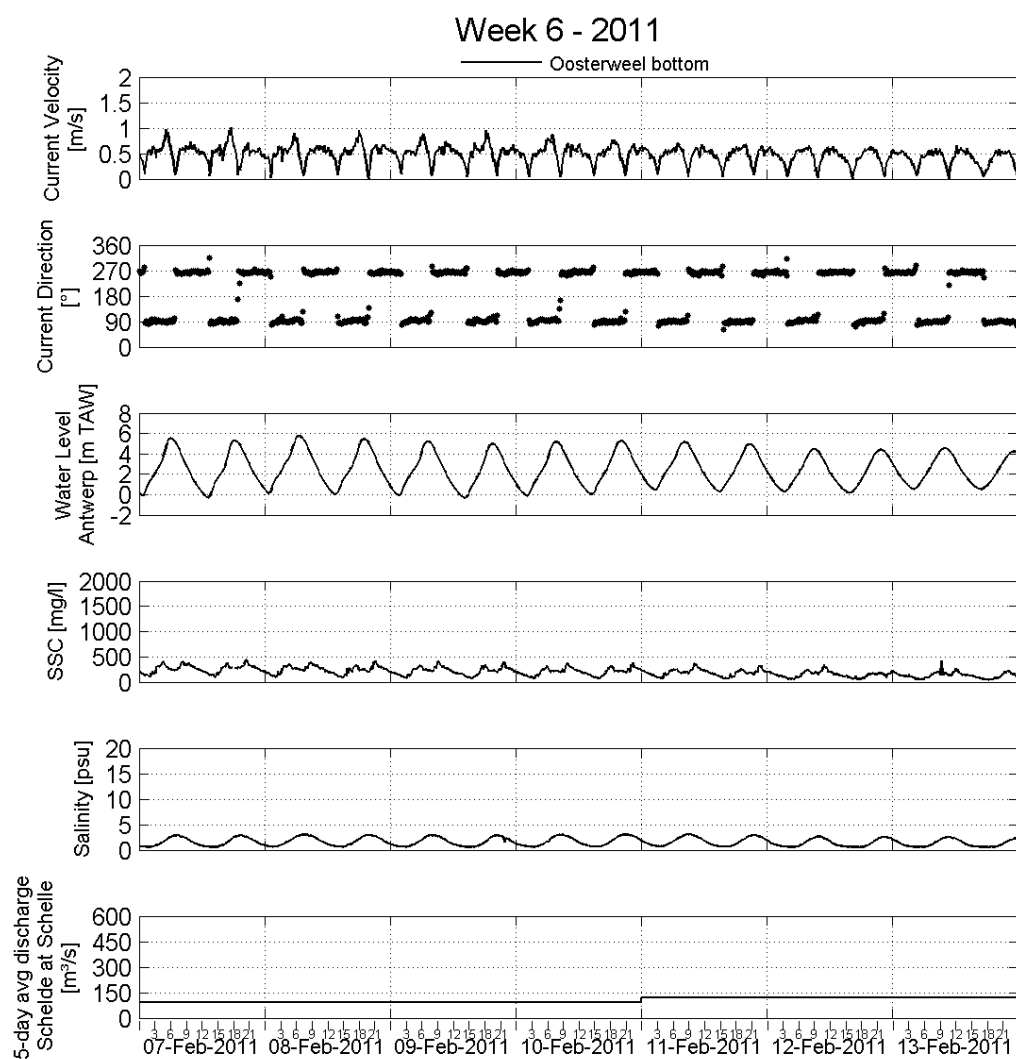


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Processed by:

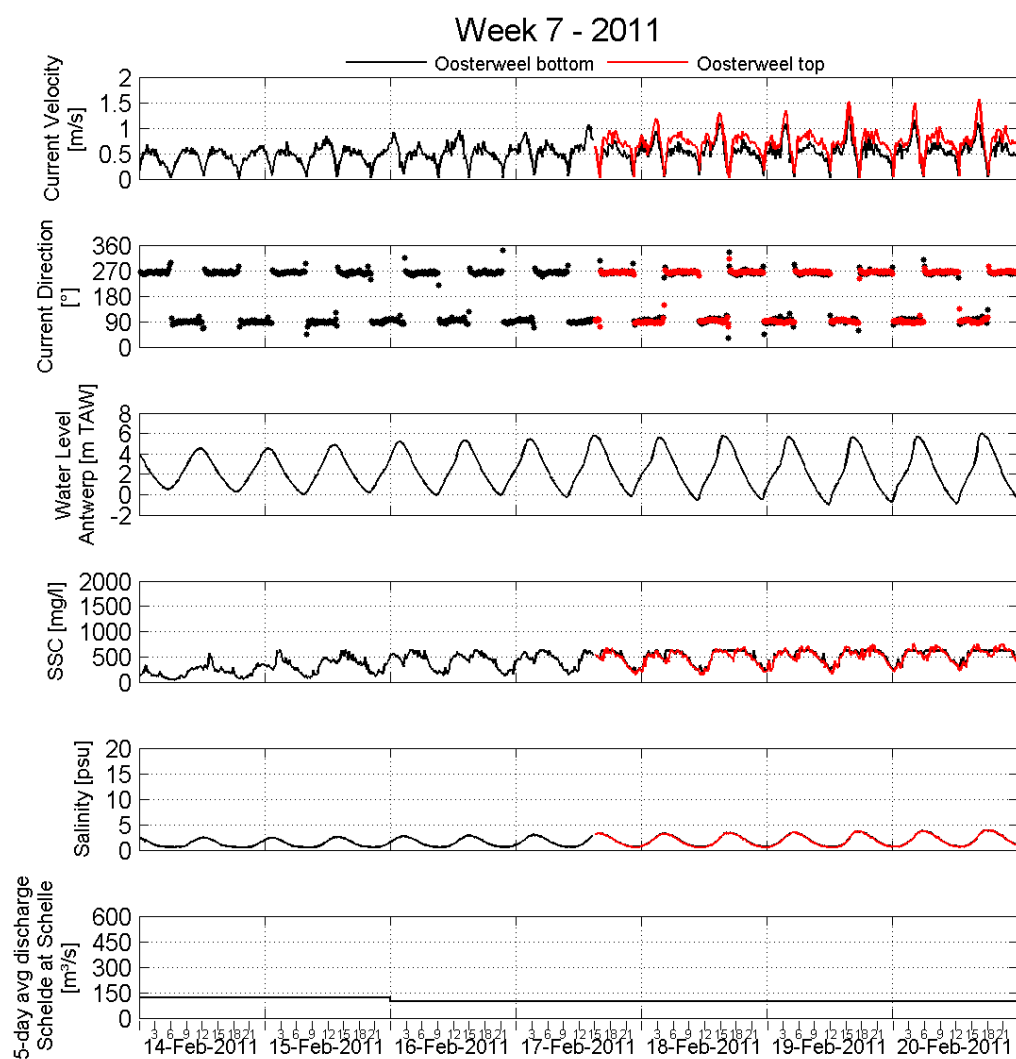


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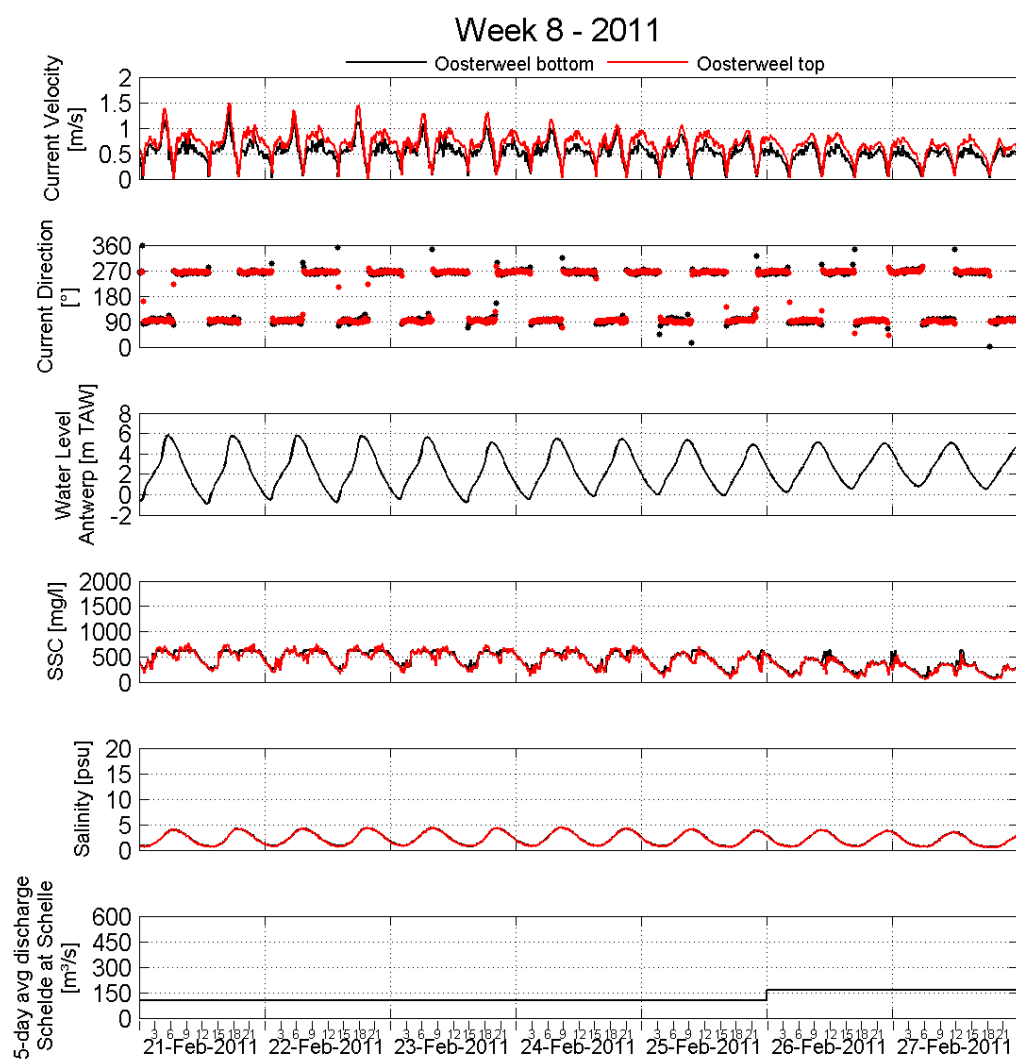


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Processed by:

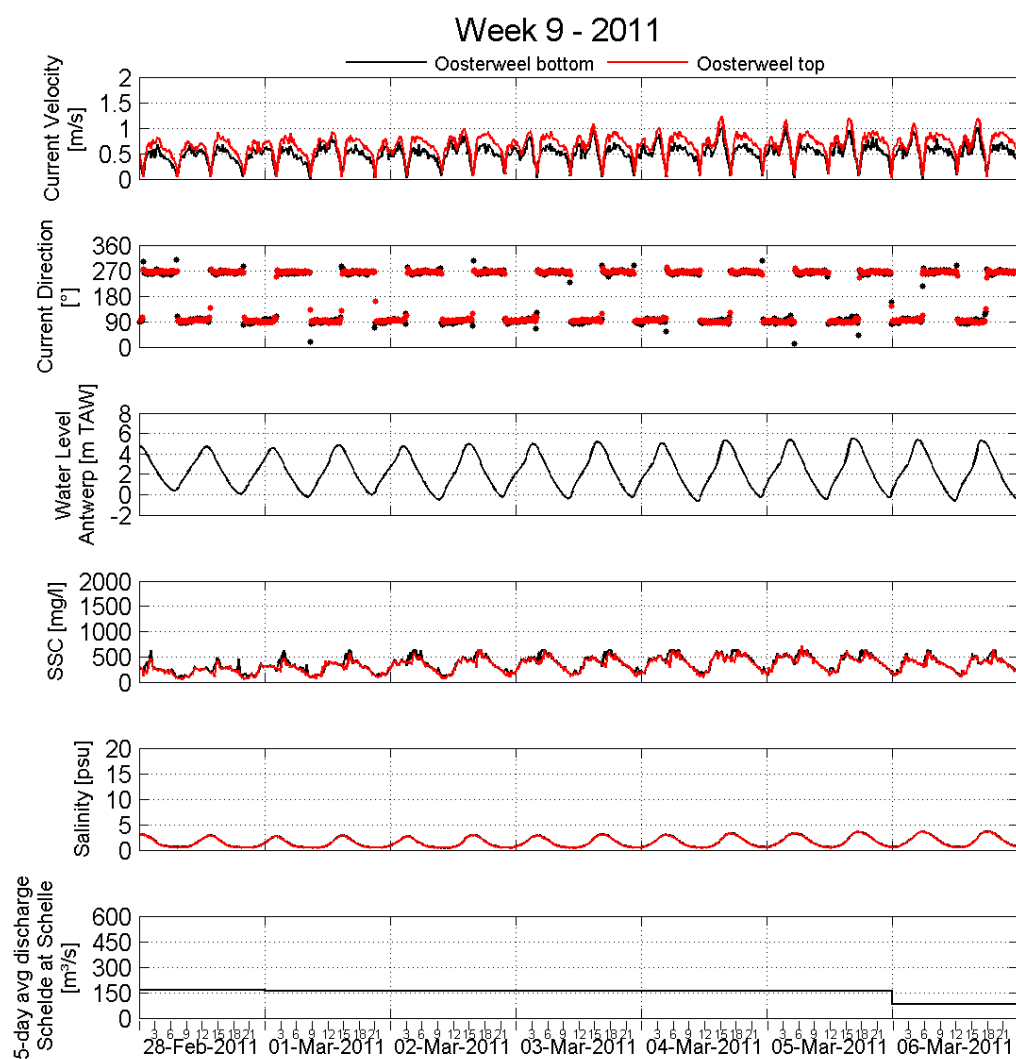


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

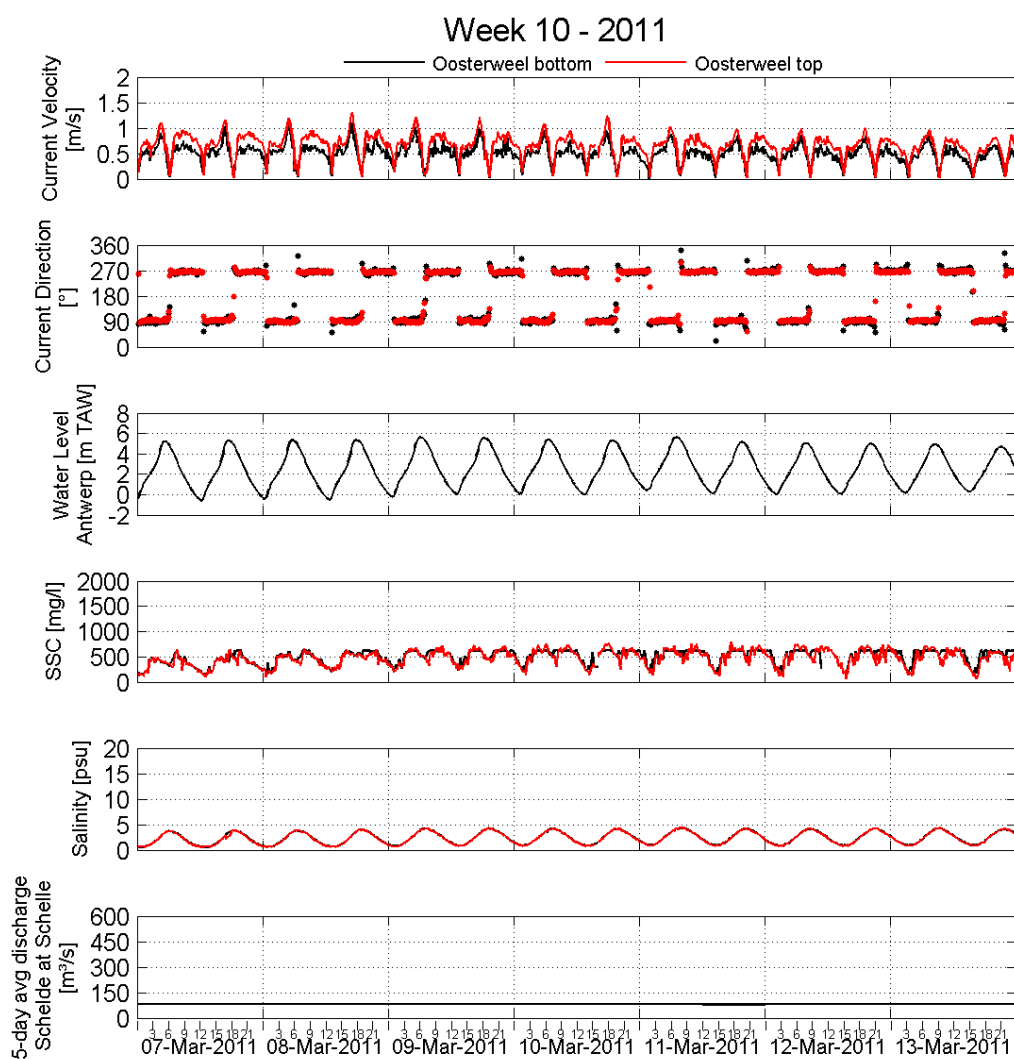


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

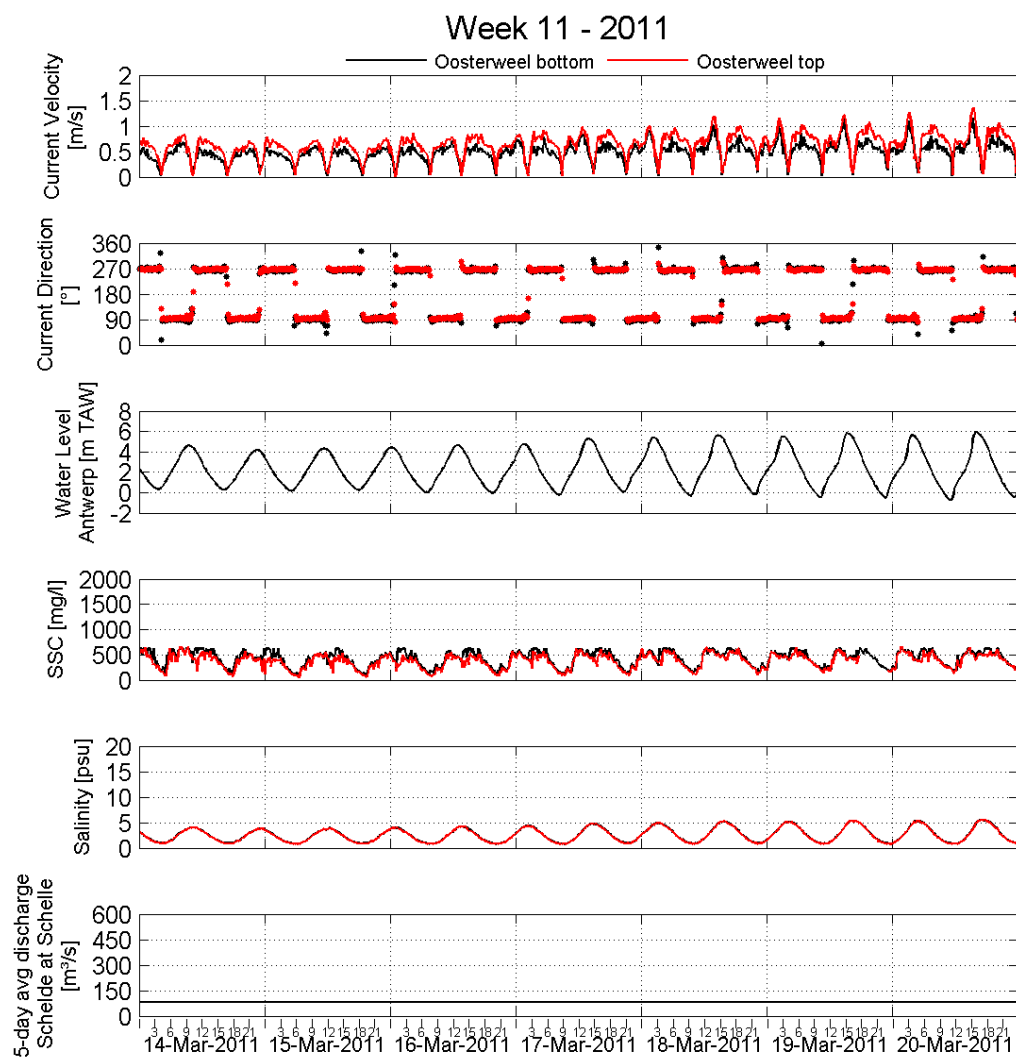


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

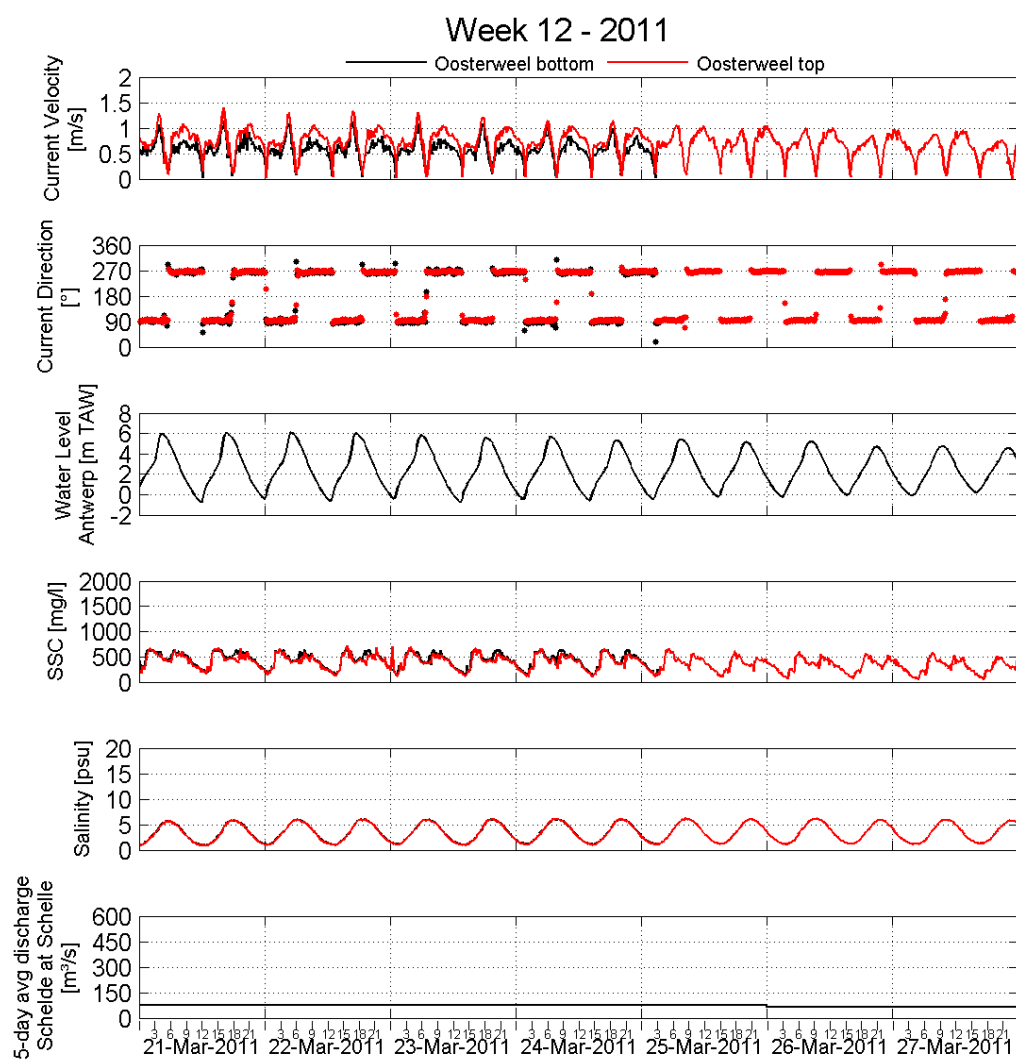


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:

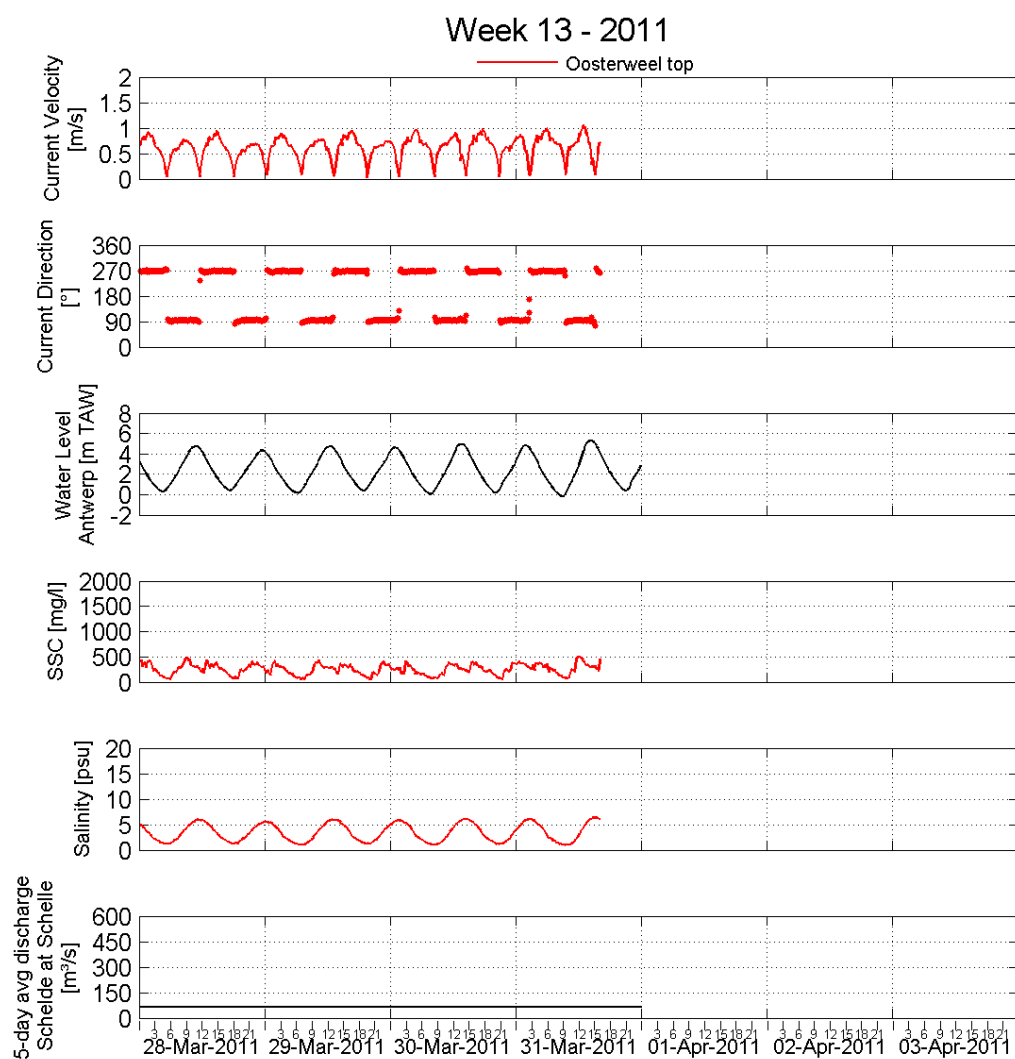


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Oosterweel (top & bottom)

Processed by:



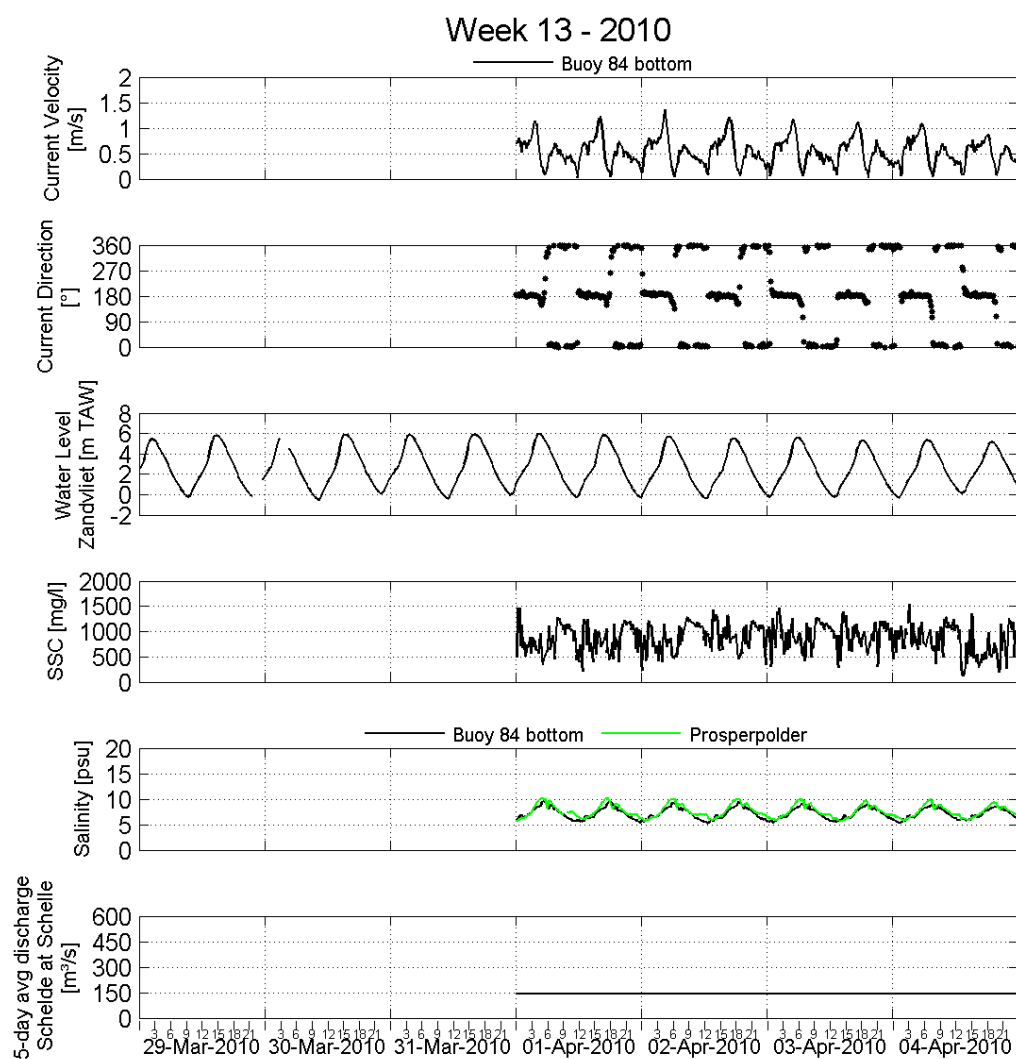
In Association with:



I/RA/11354/10.103/MBO/ANF

A.1.2 Buoy 84 and Prosperpolder

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

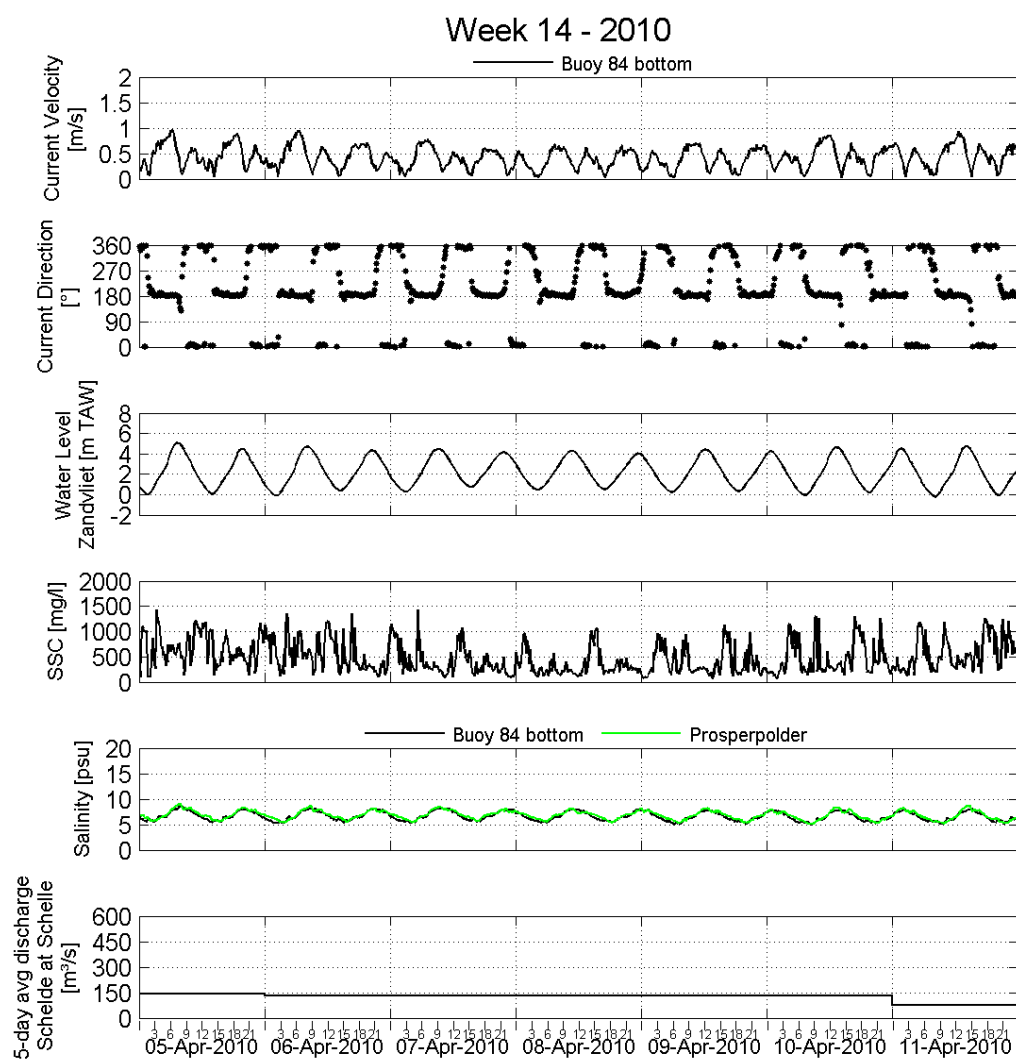


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

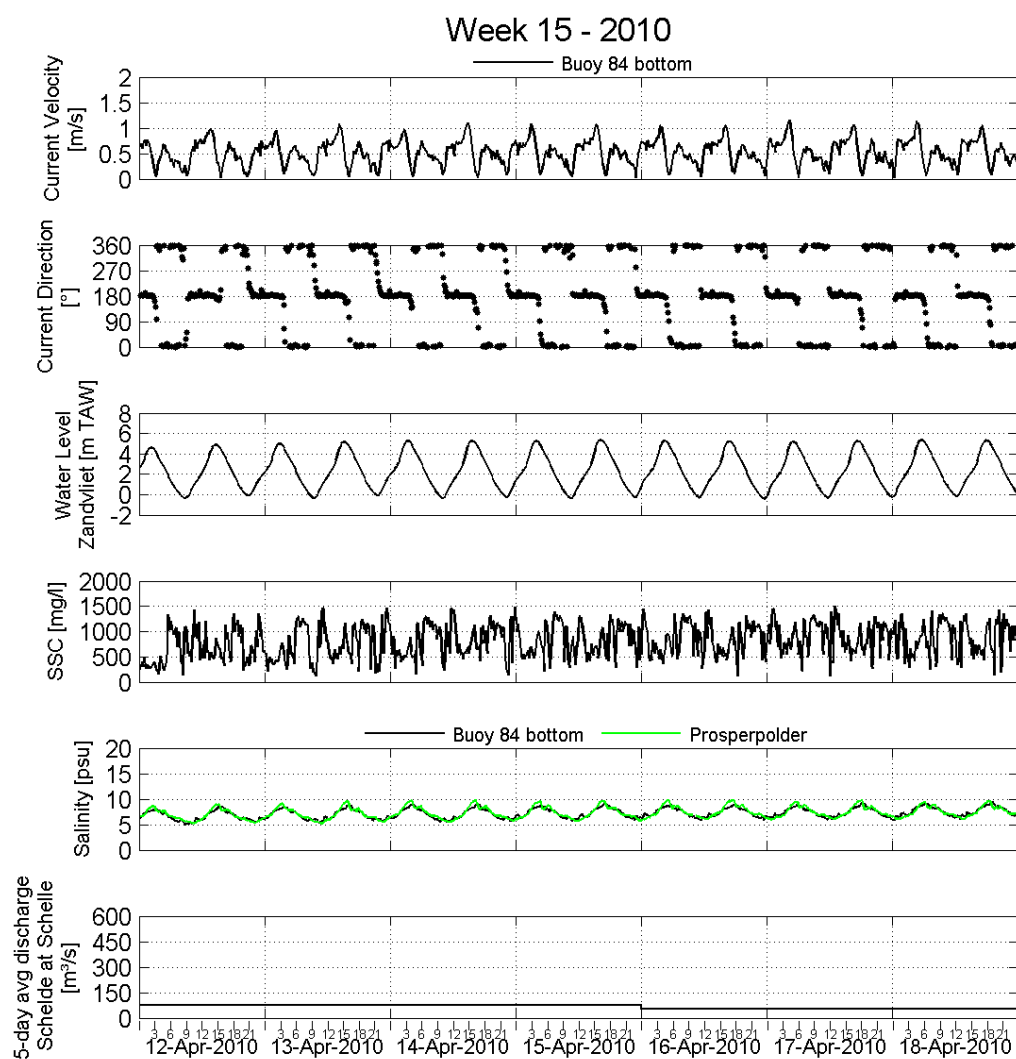


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

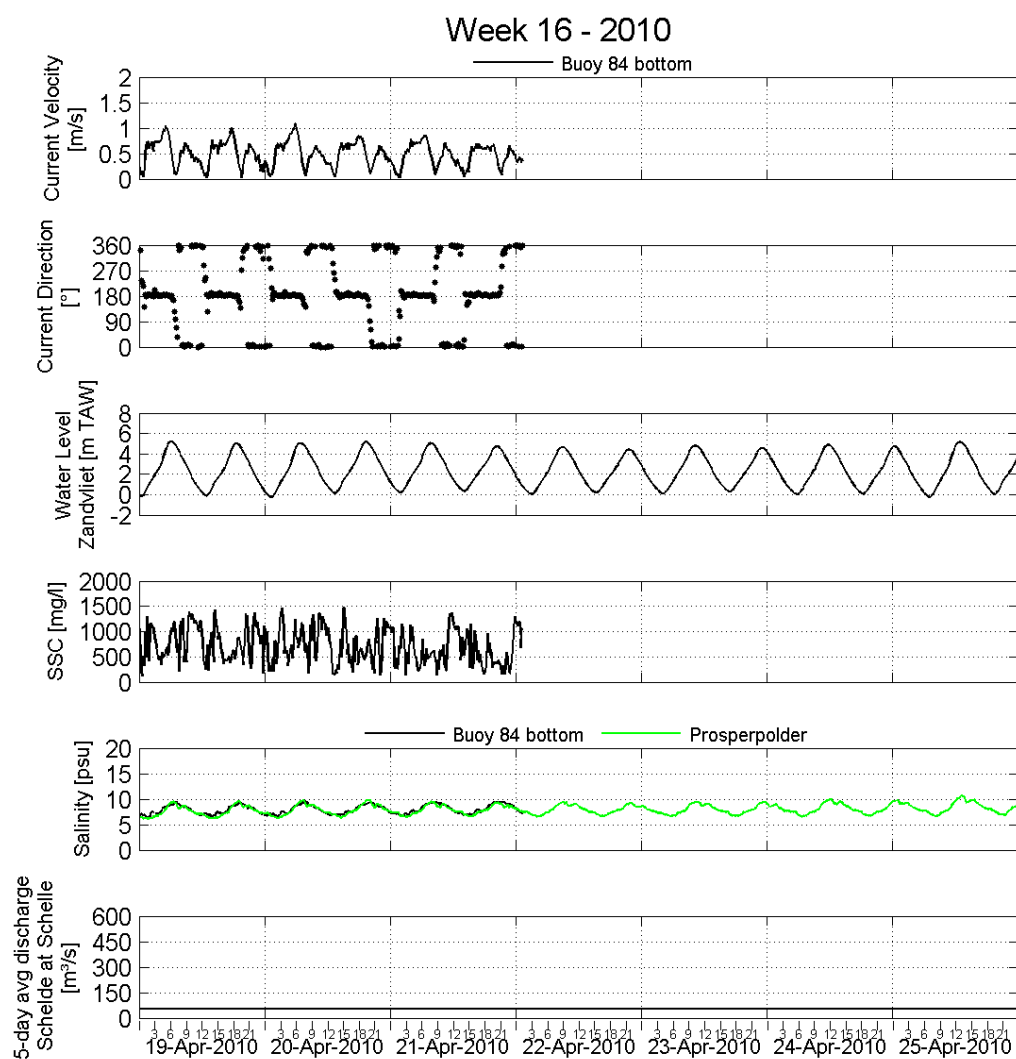


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

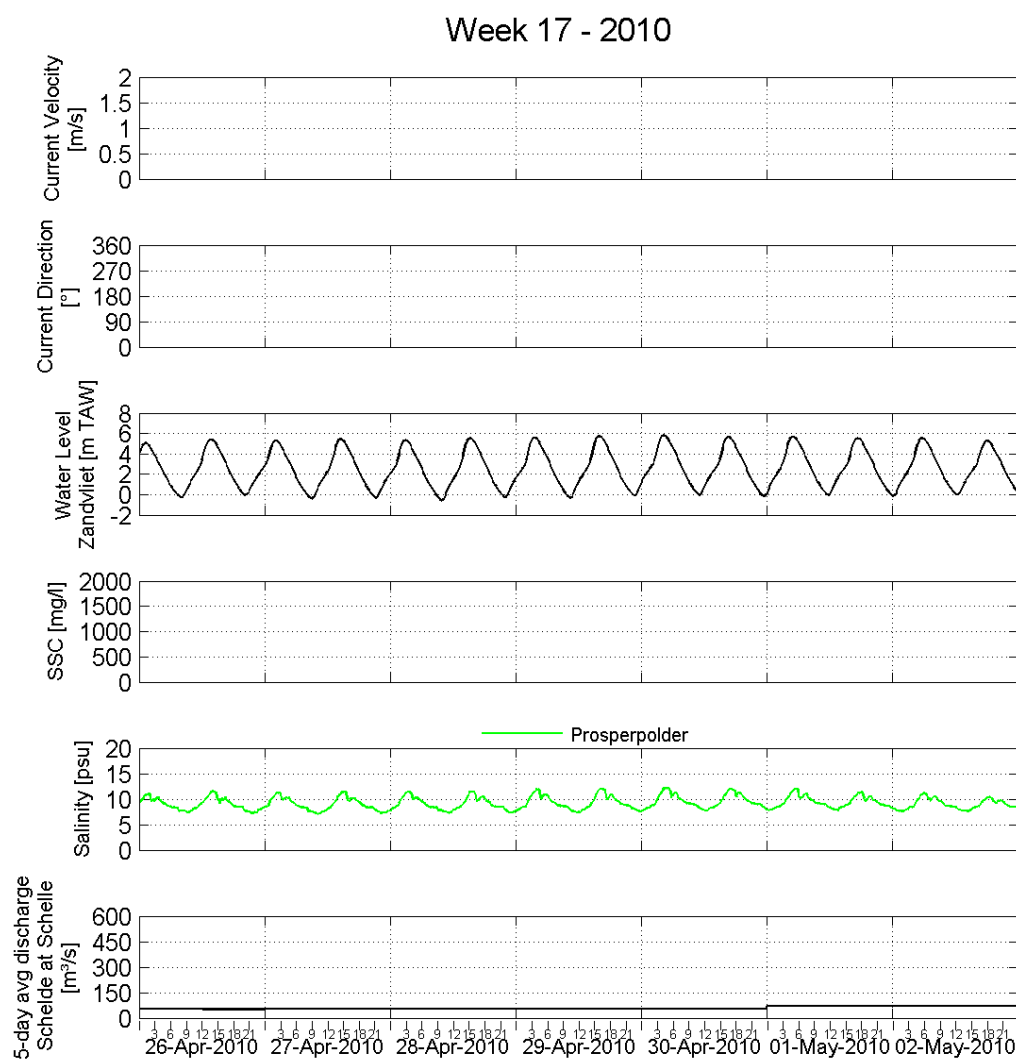


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:



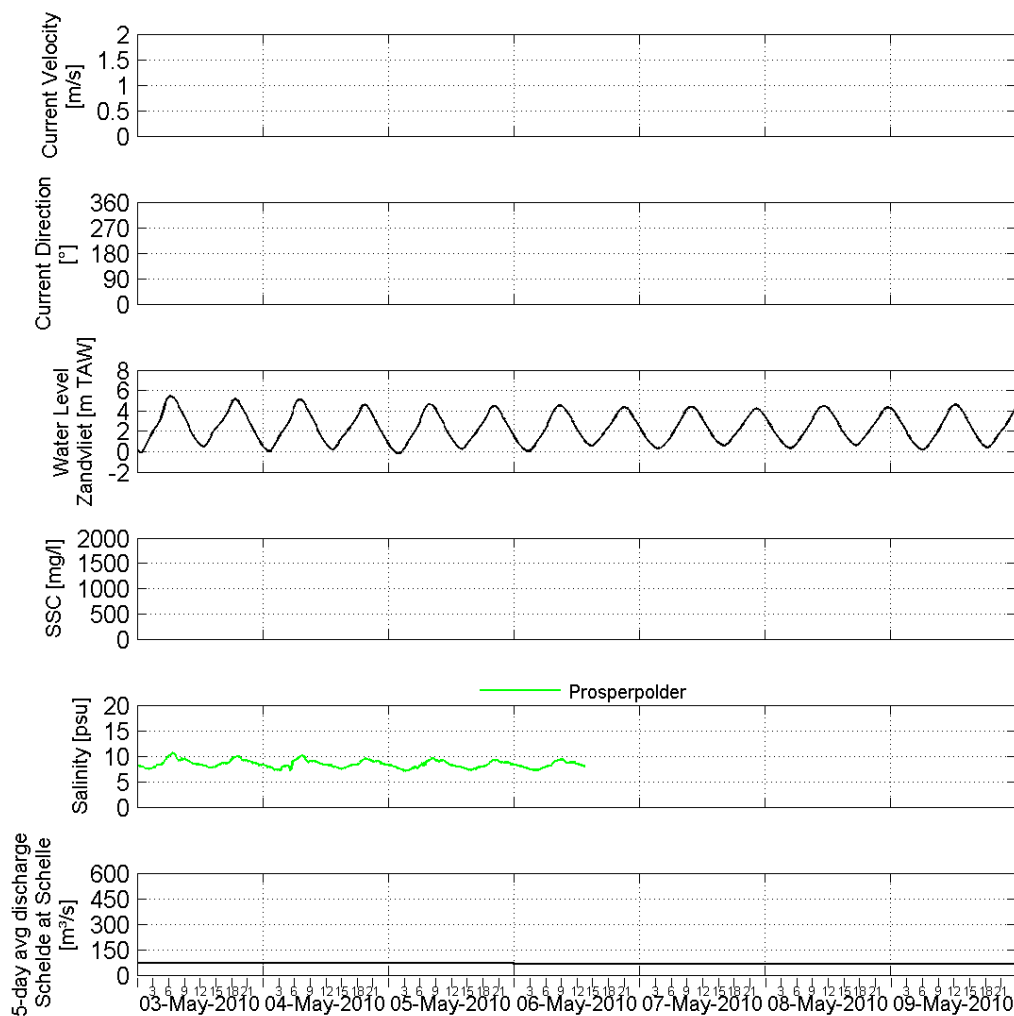
In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011

Week 18 - 2010



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

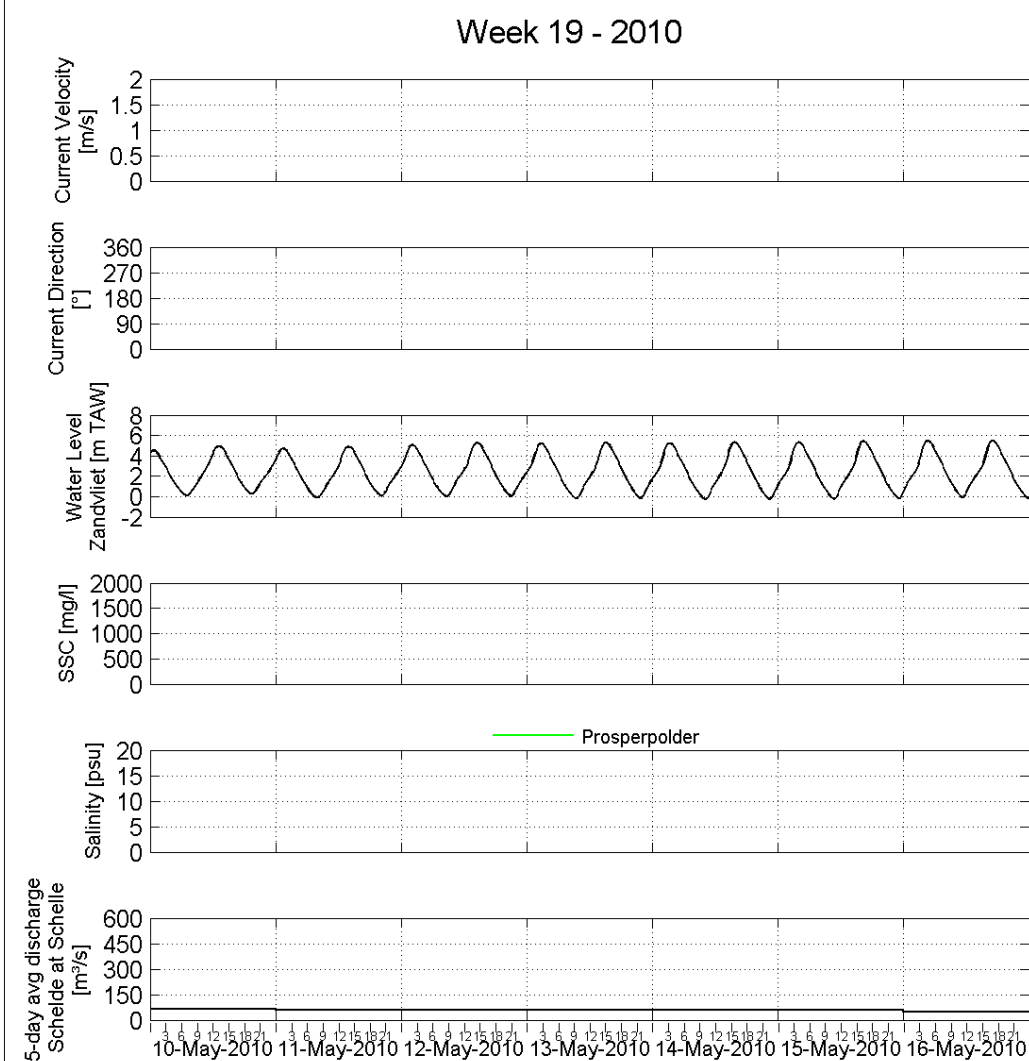


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

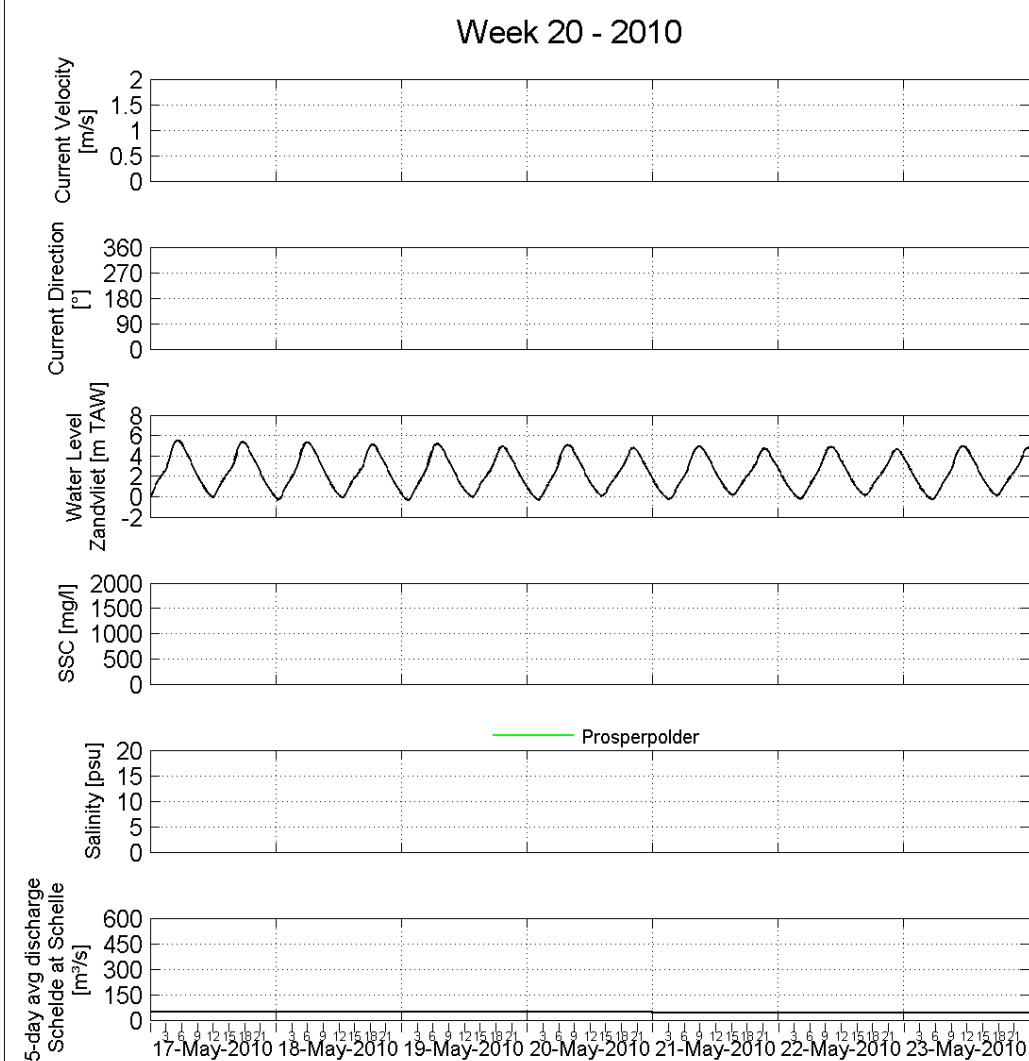


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

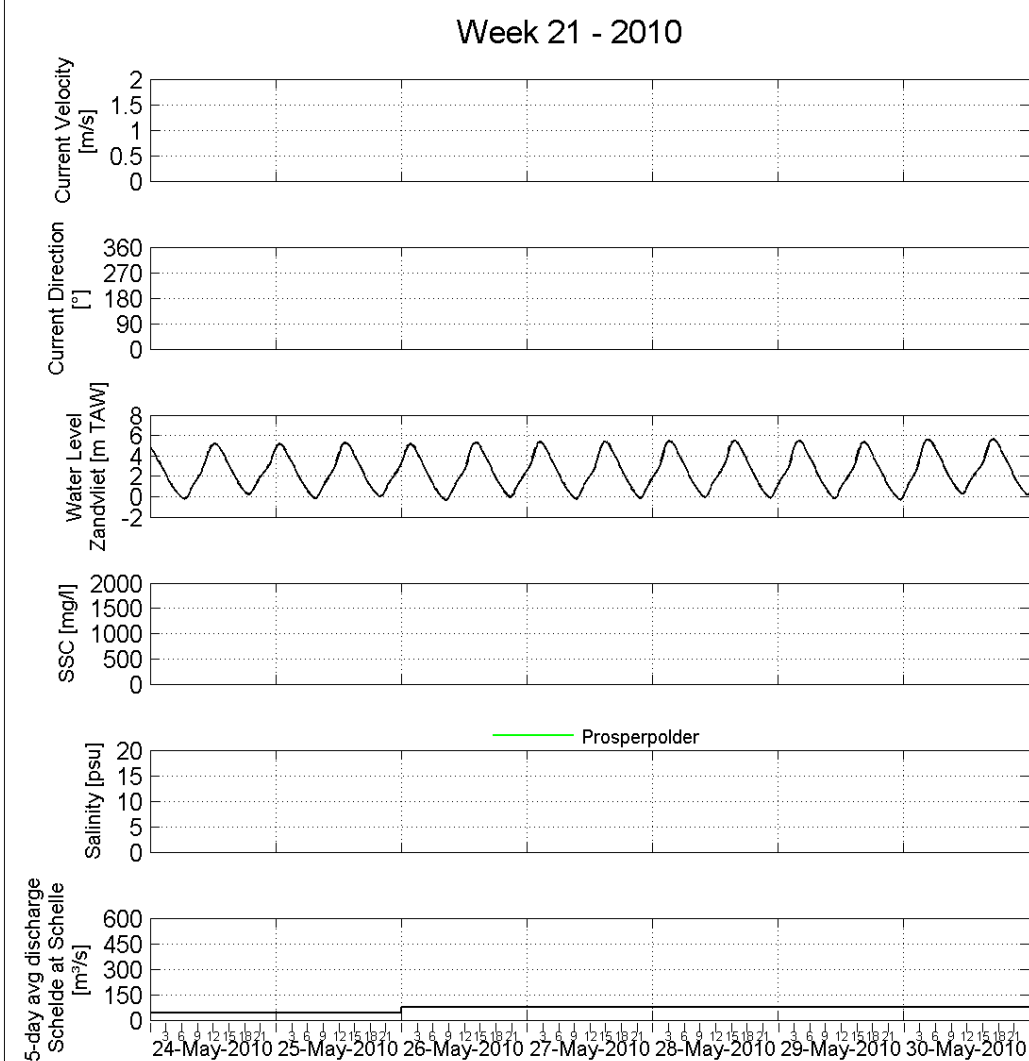


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:



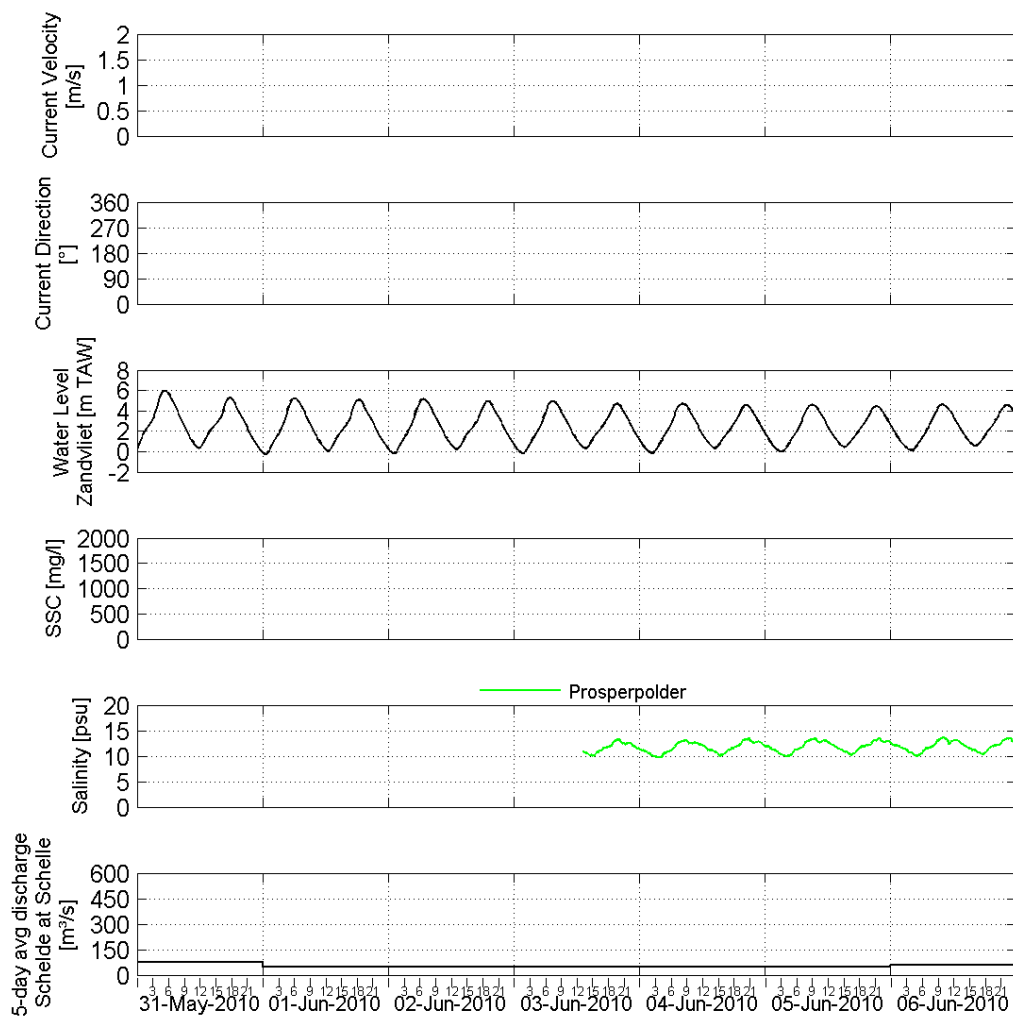
In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011

Week 22 - 2010



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

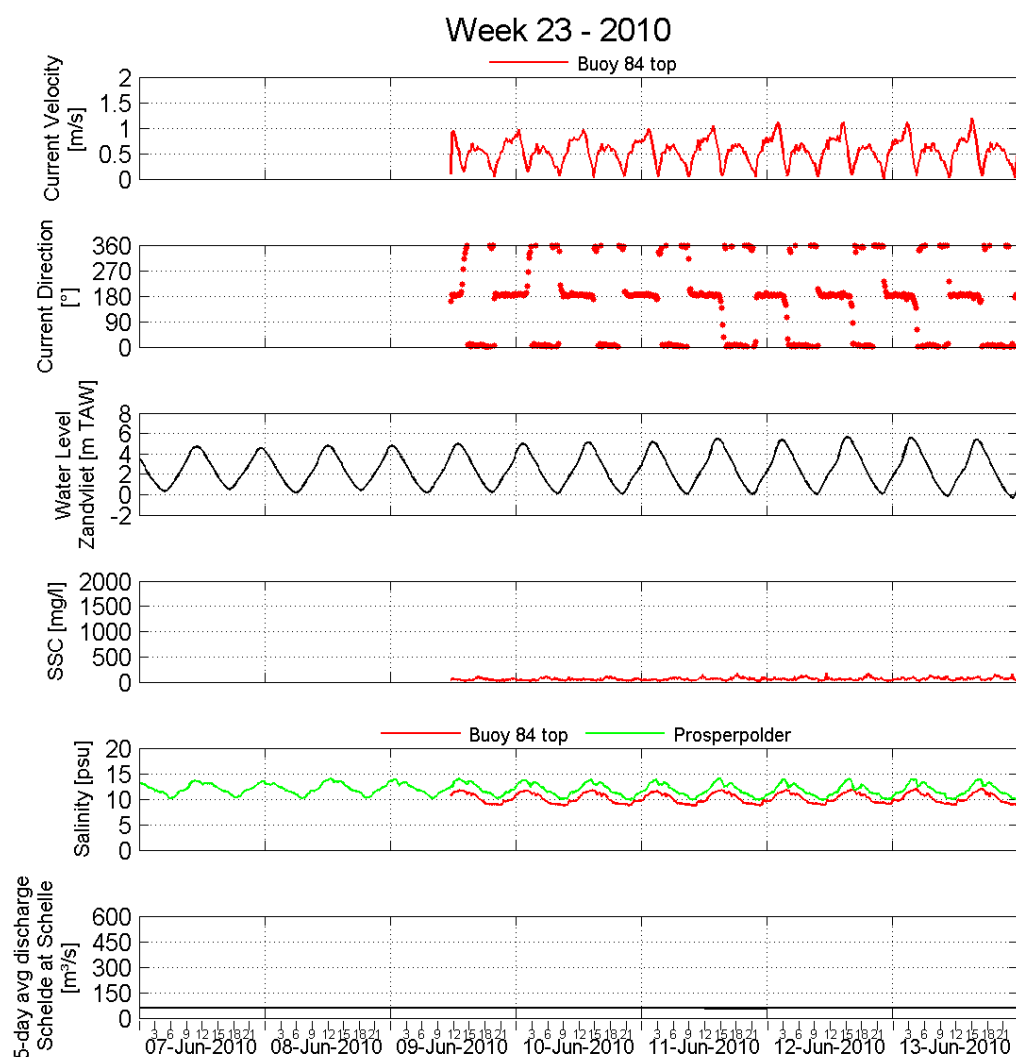


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

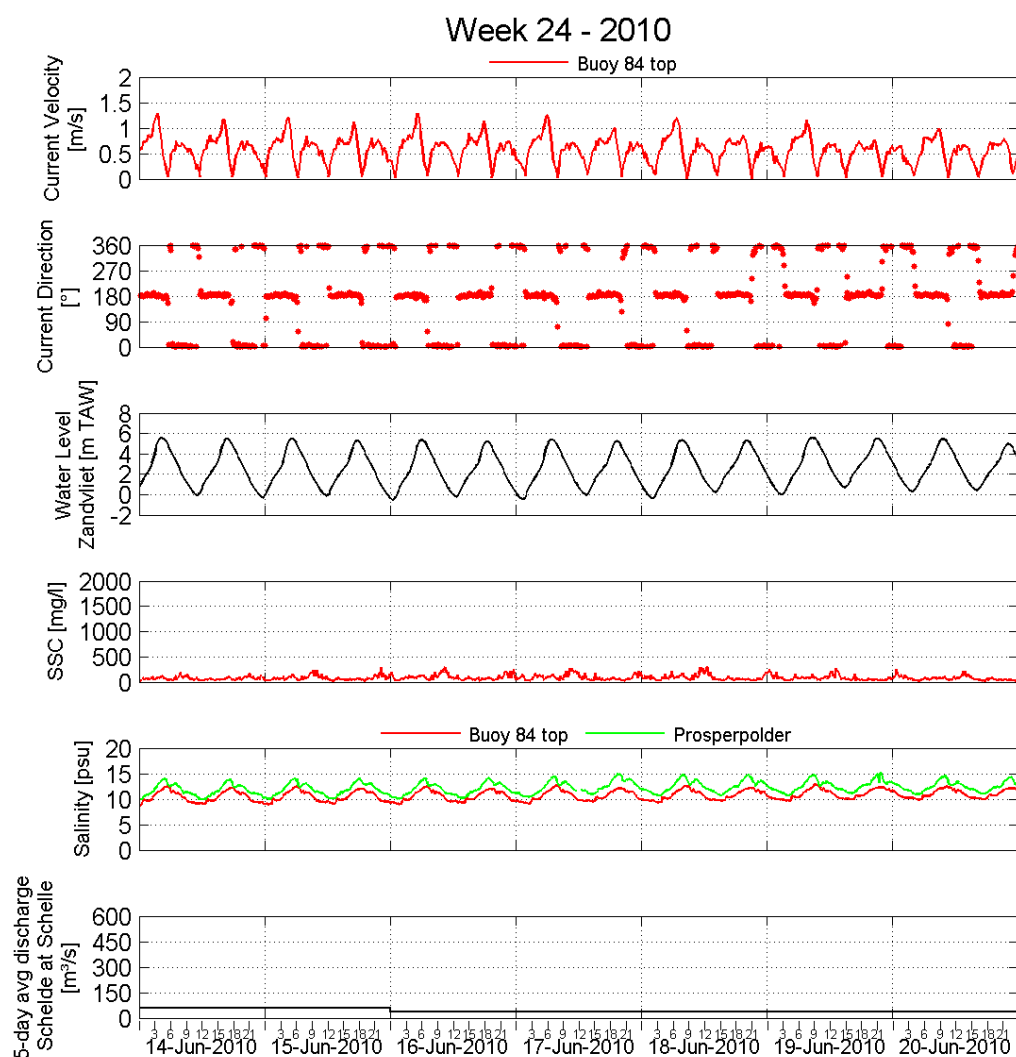


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

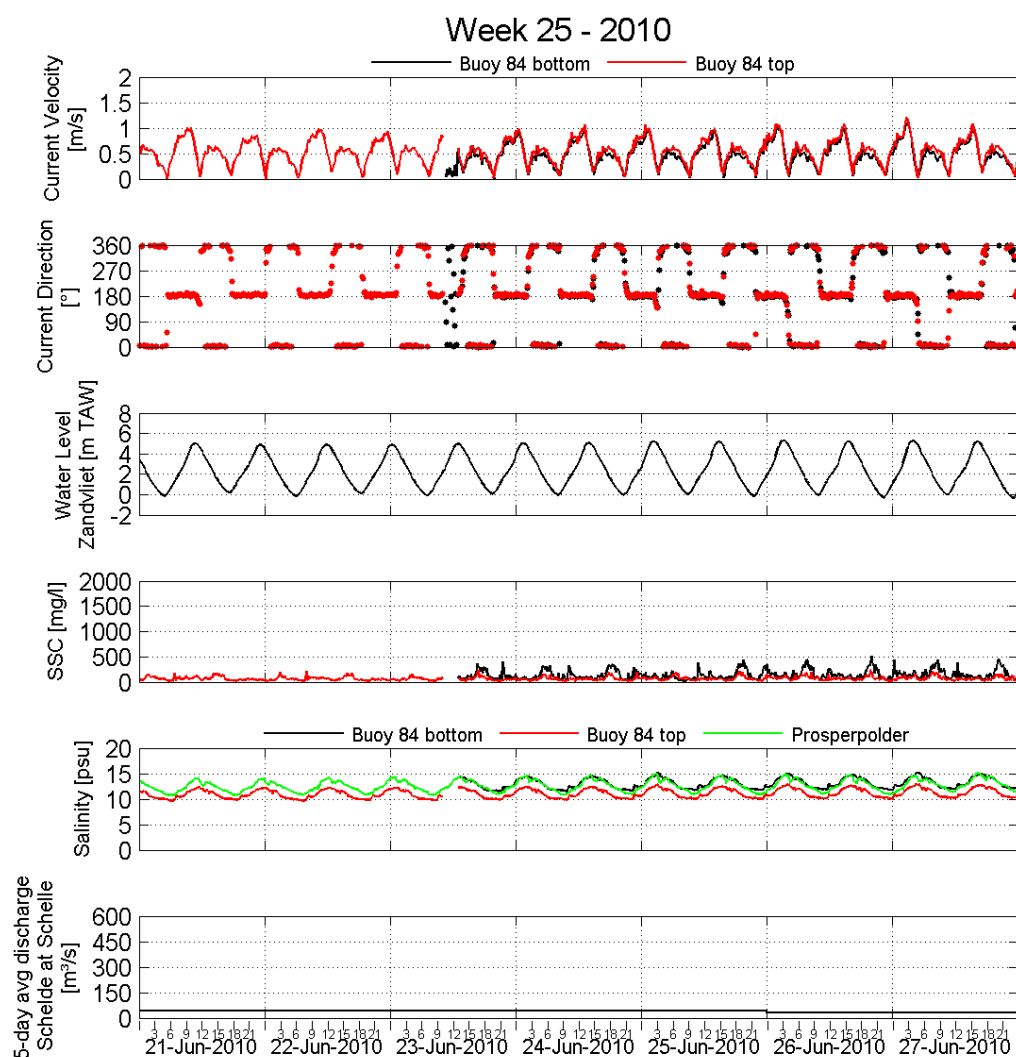


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

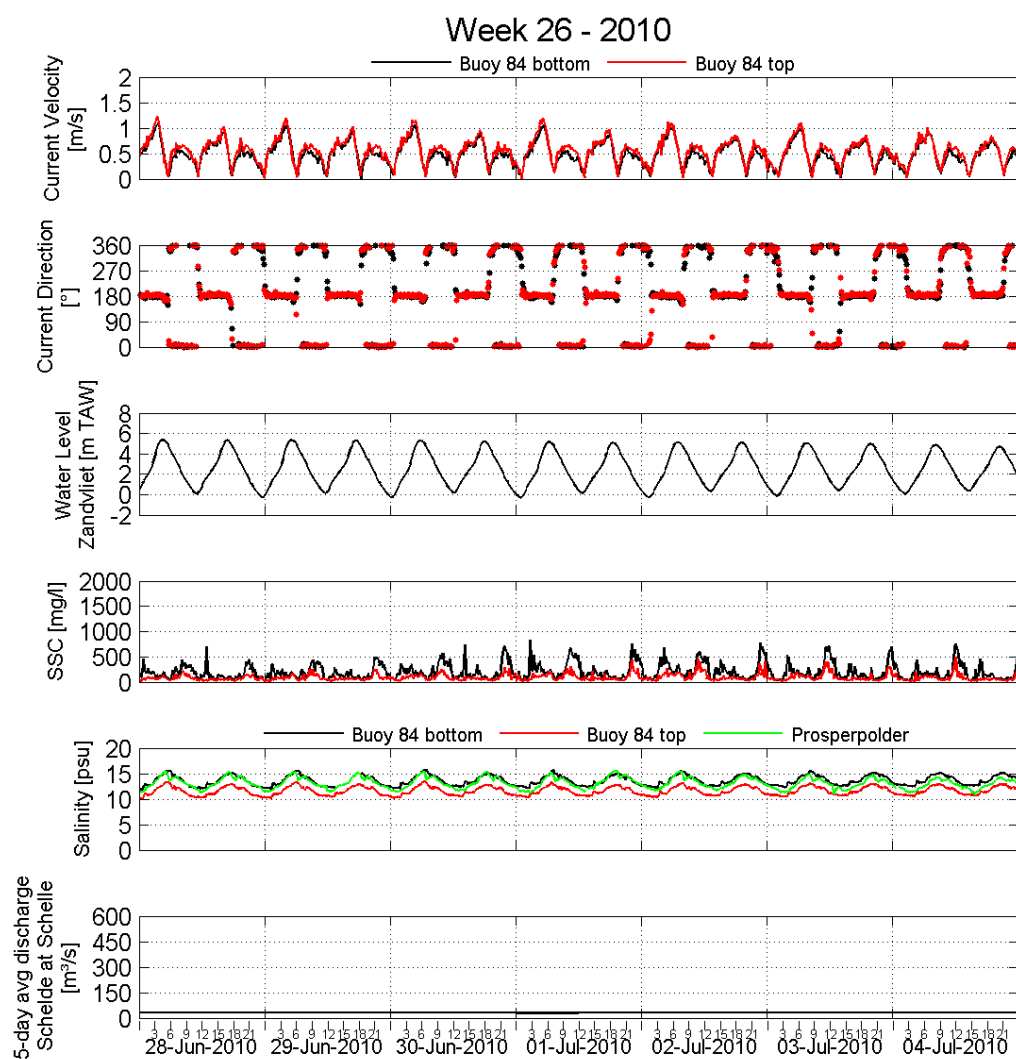


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

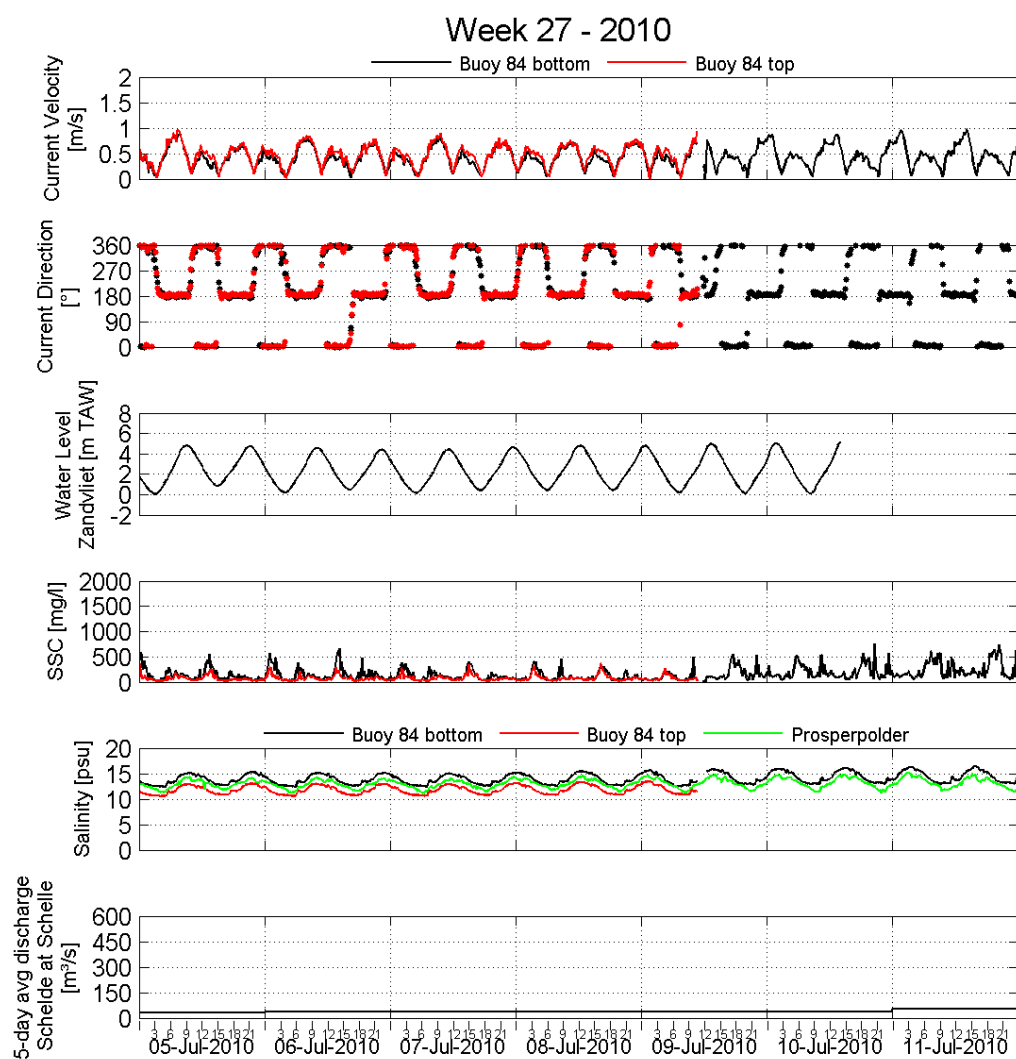


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

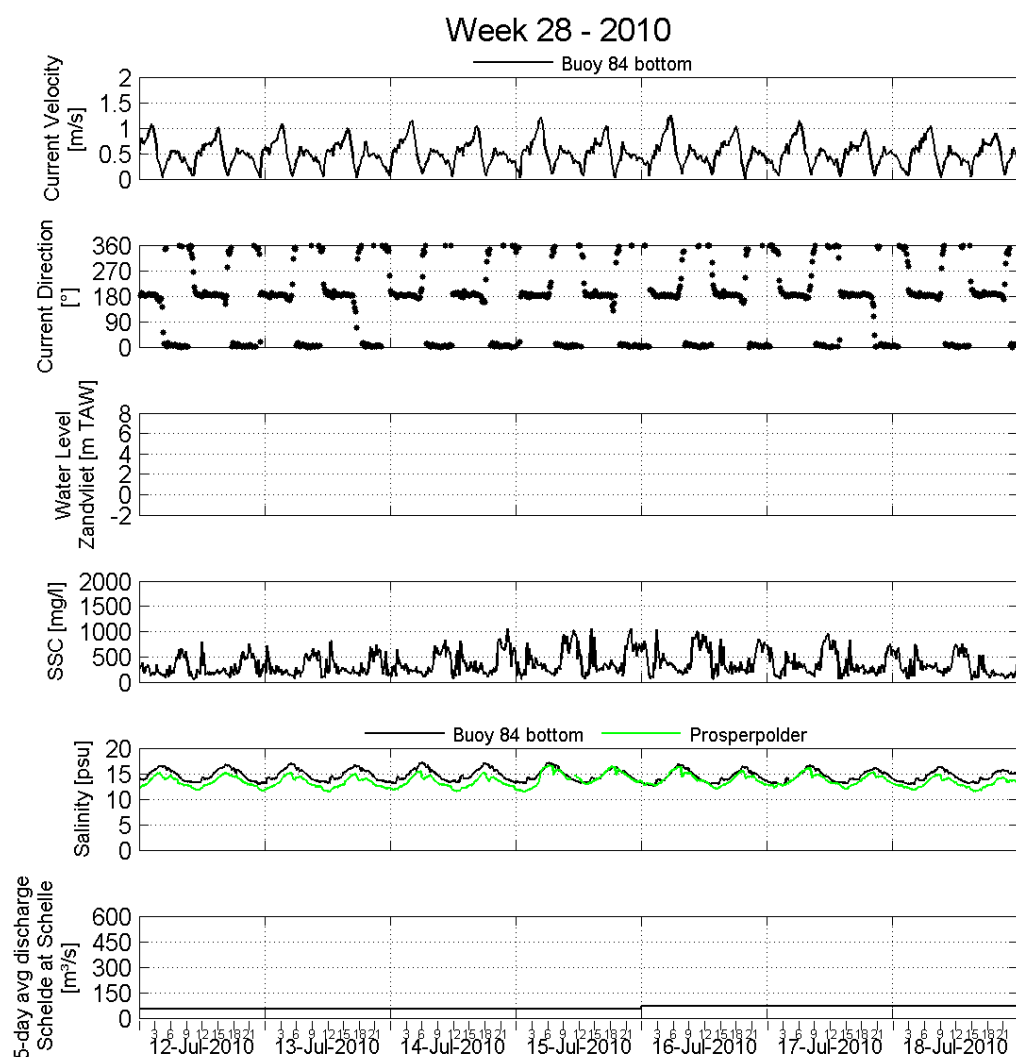


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

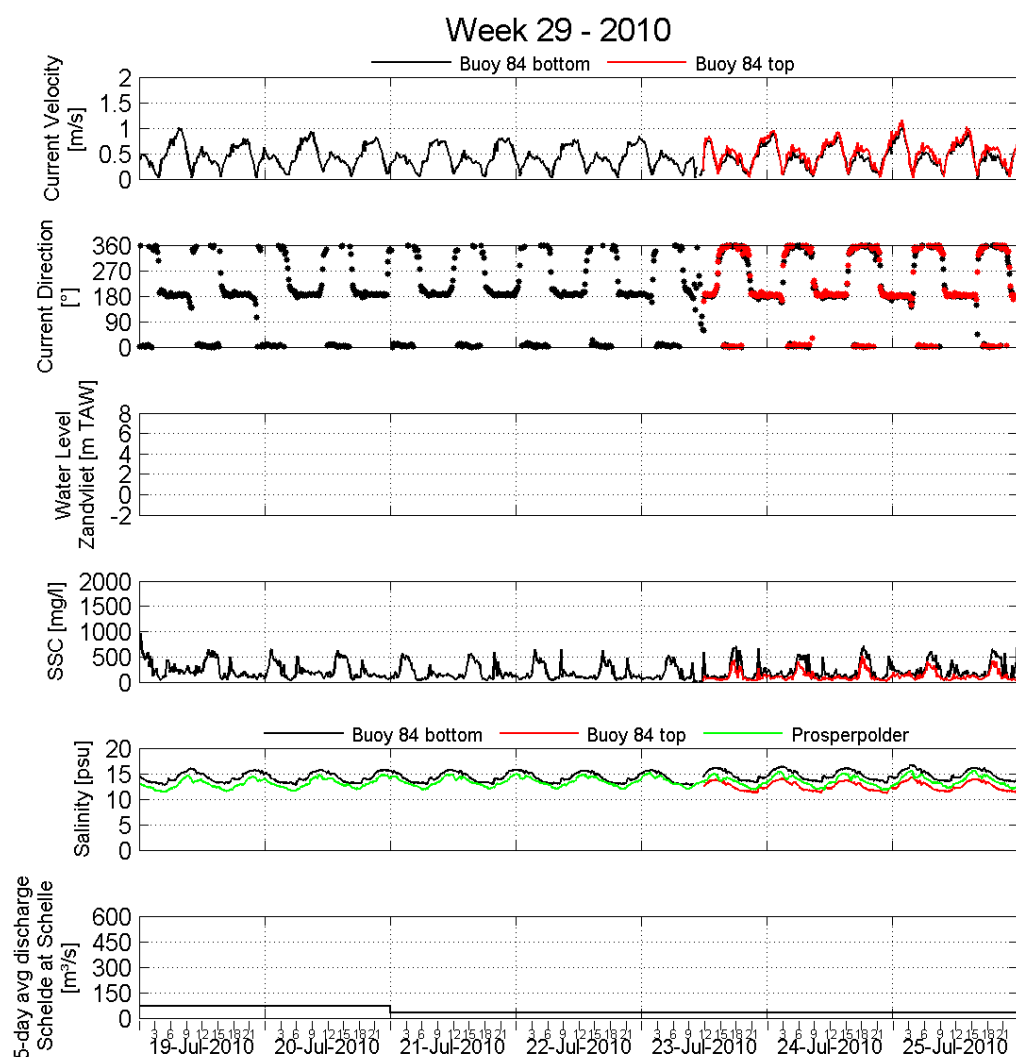


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

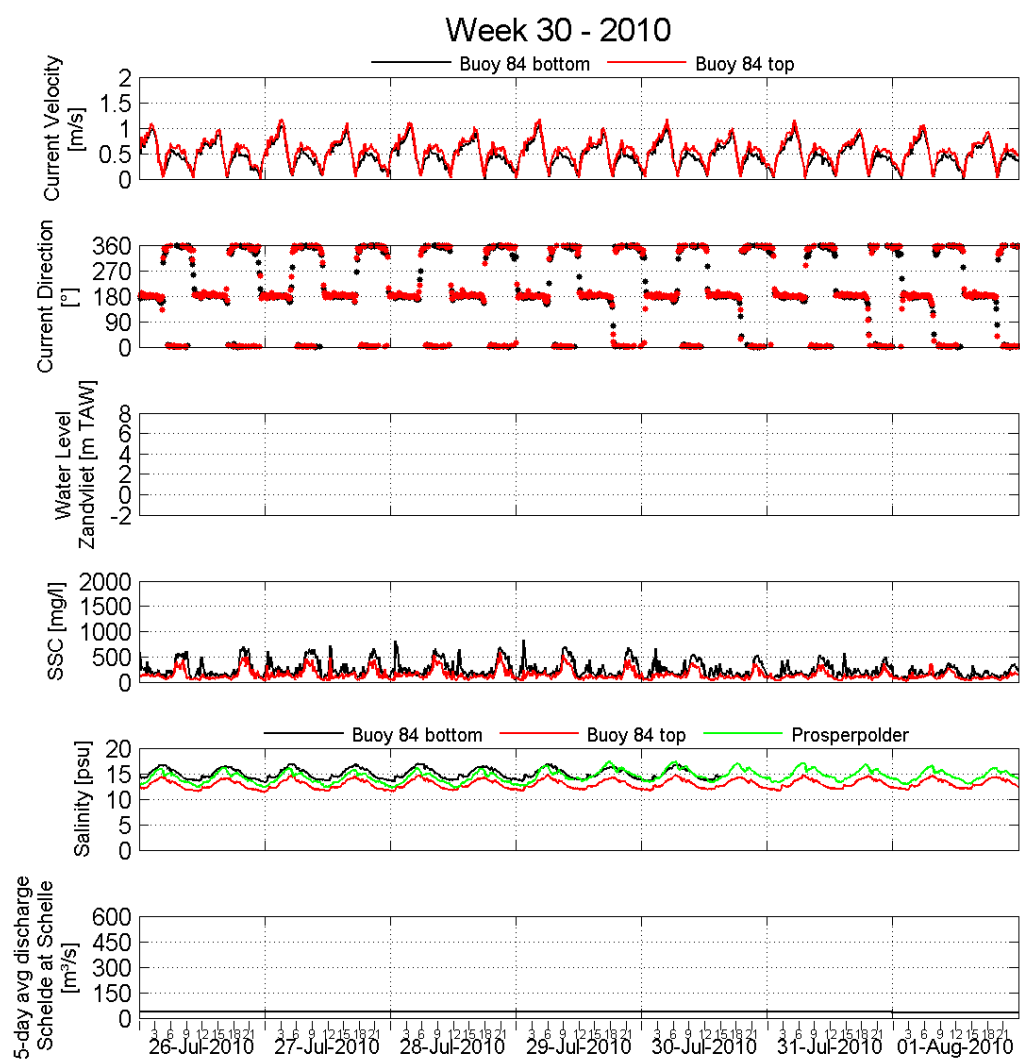


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

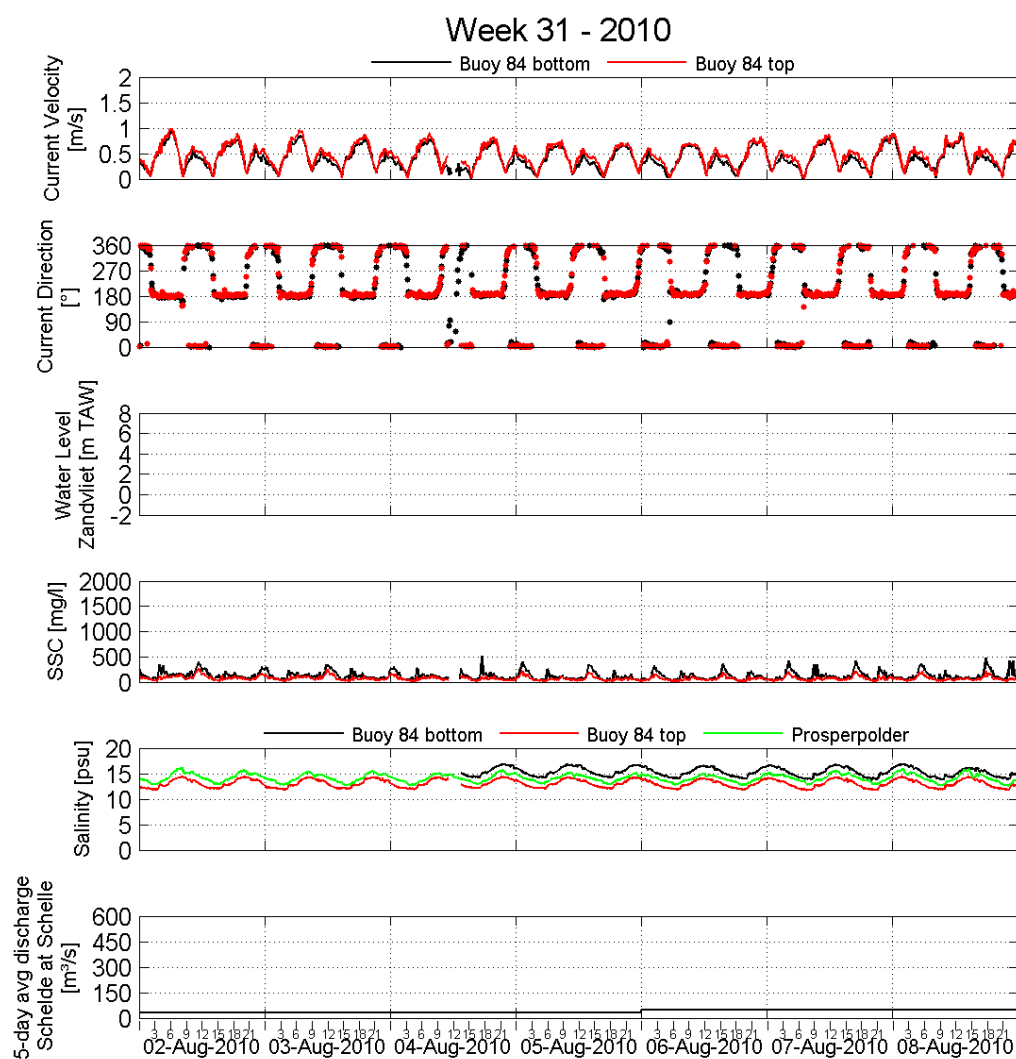


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

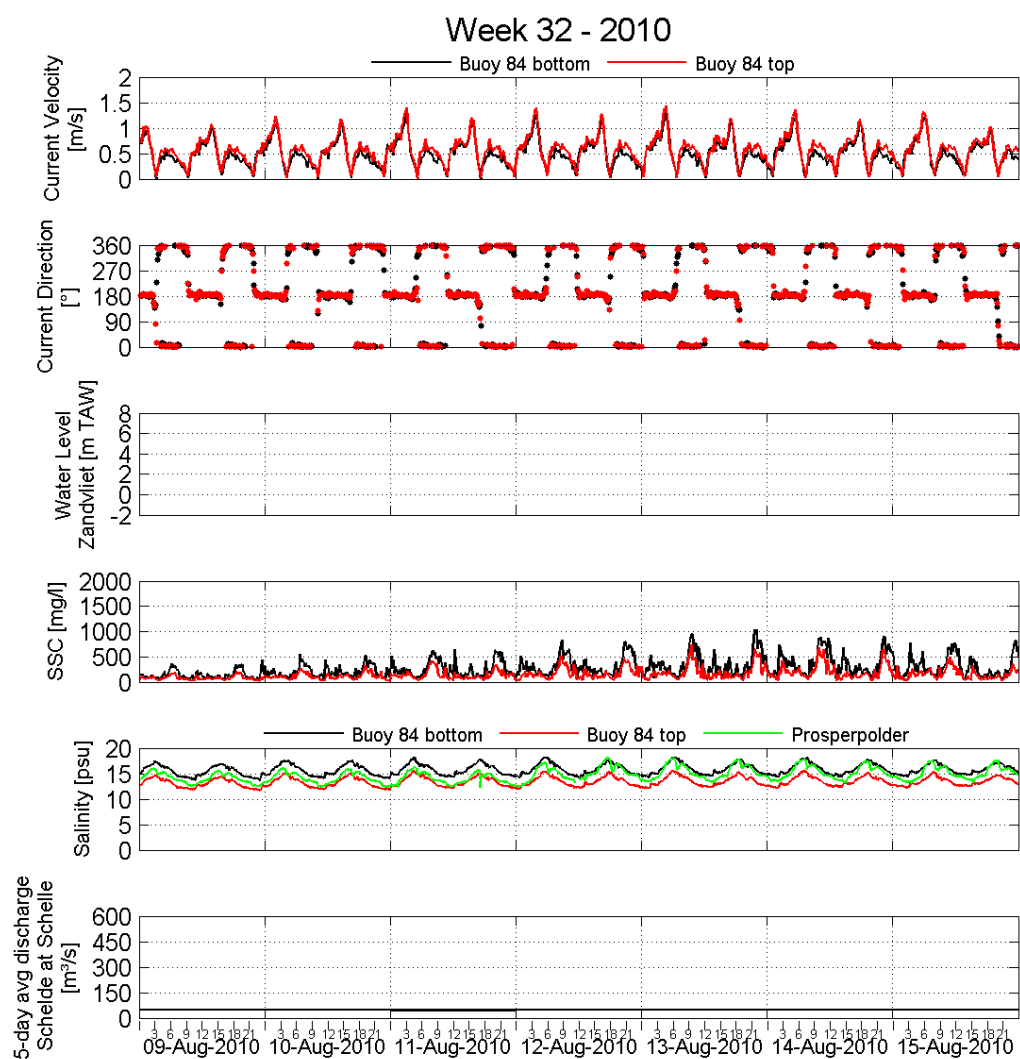


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

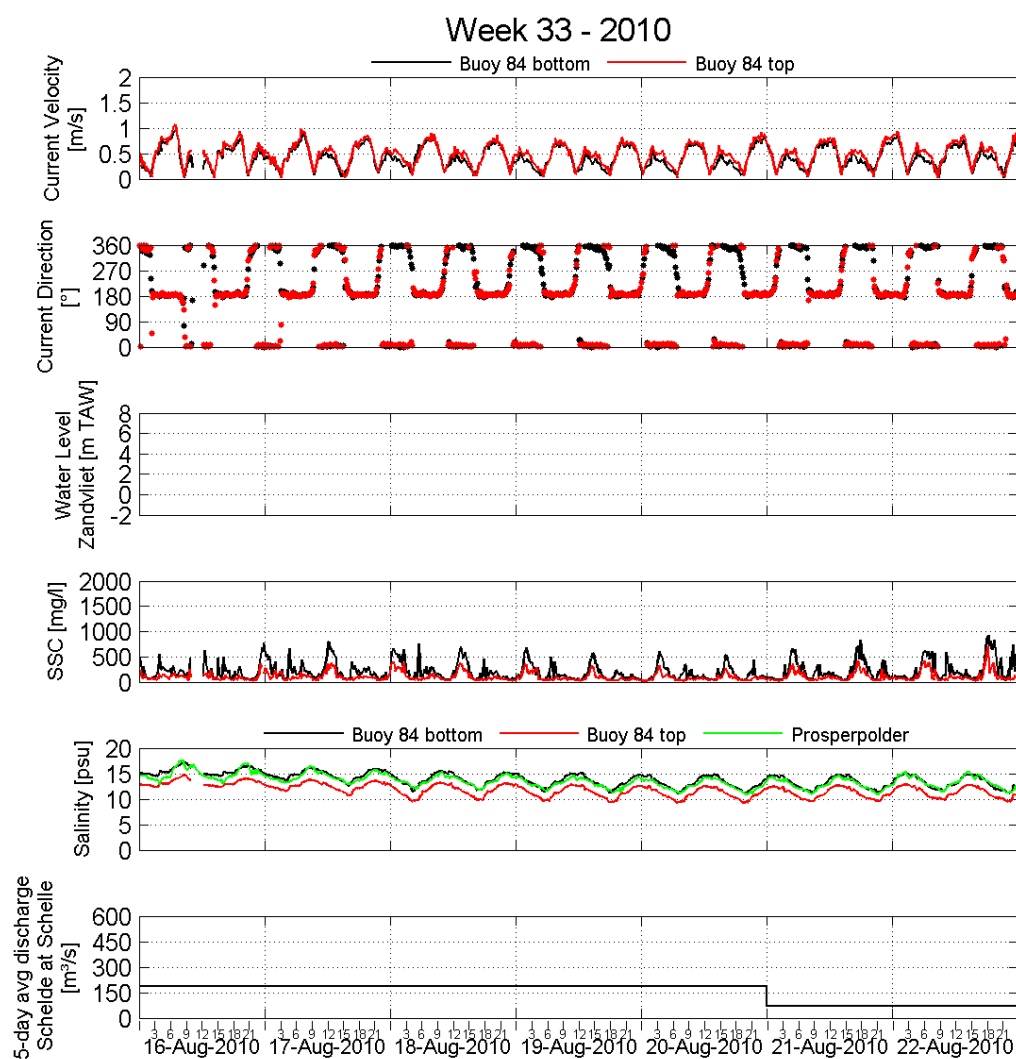


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

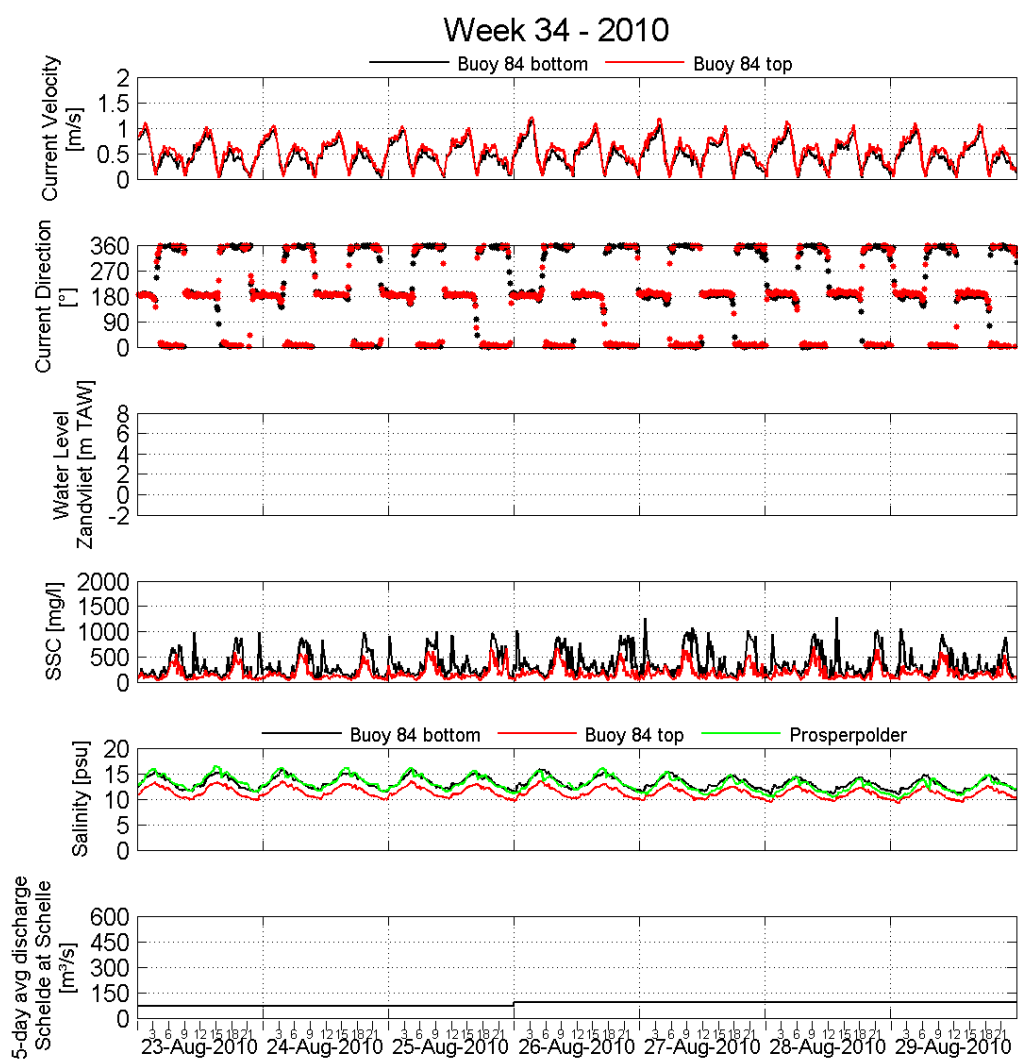


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

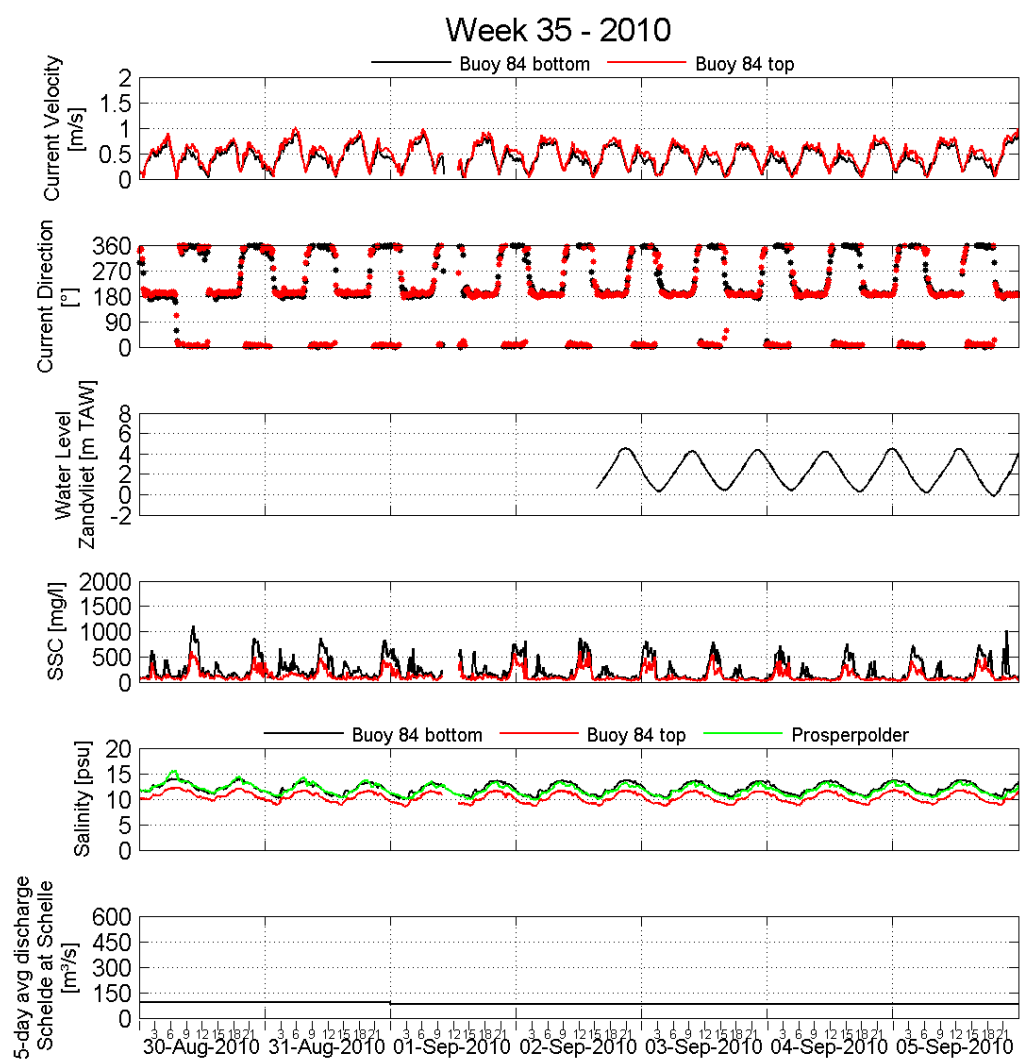


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

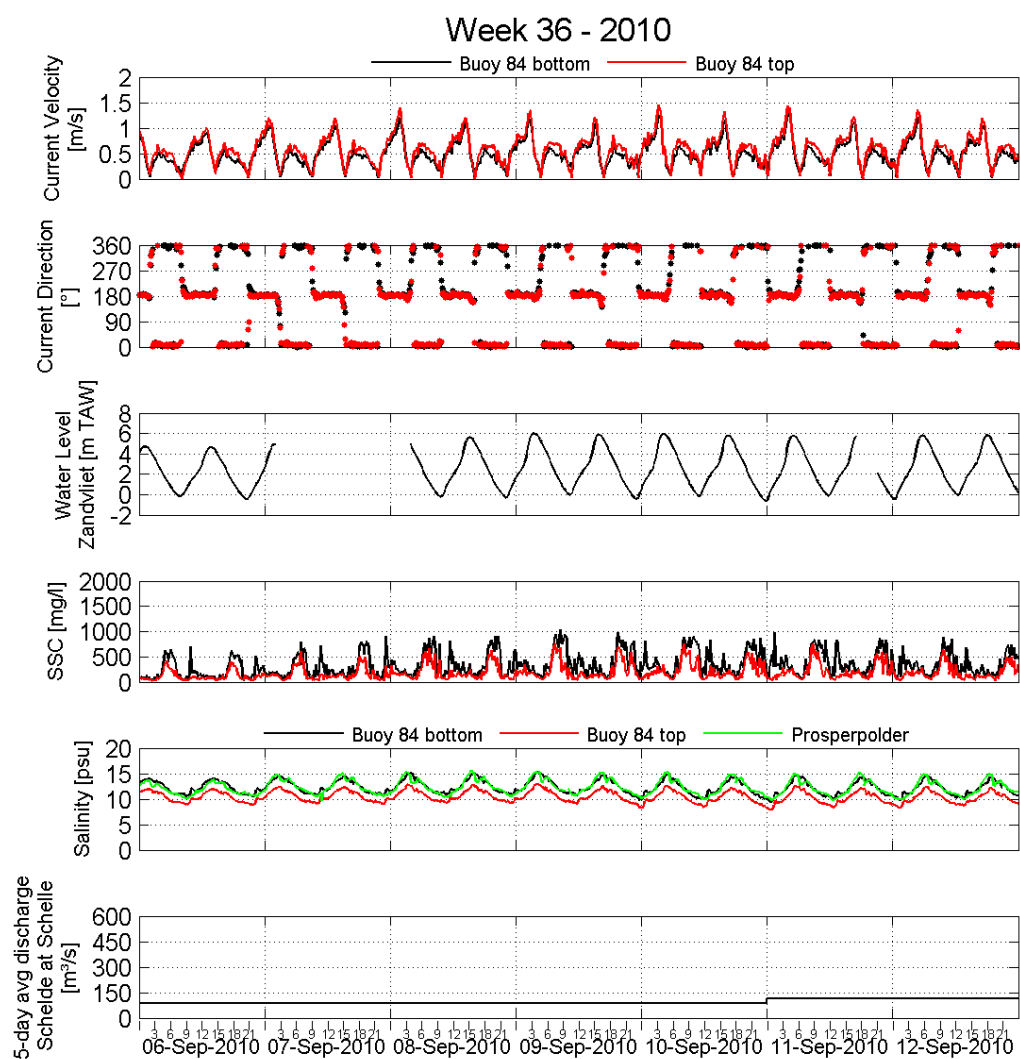


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

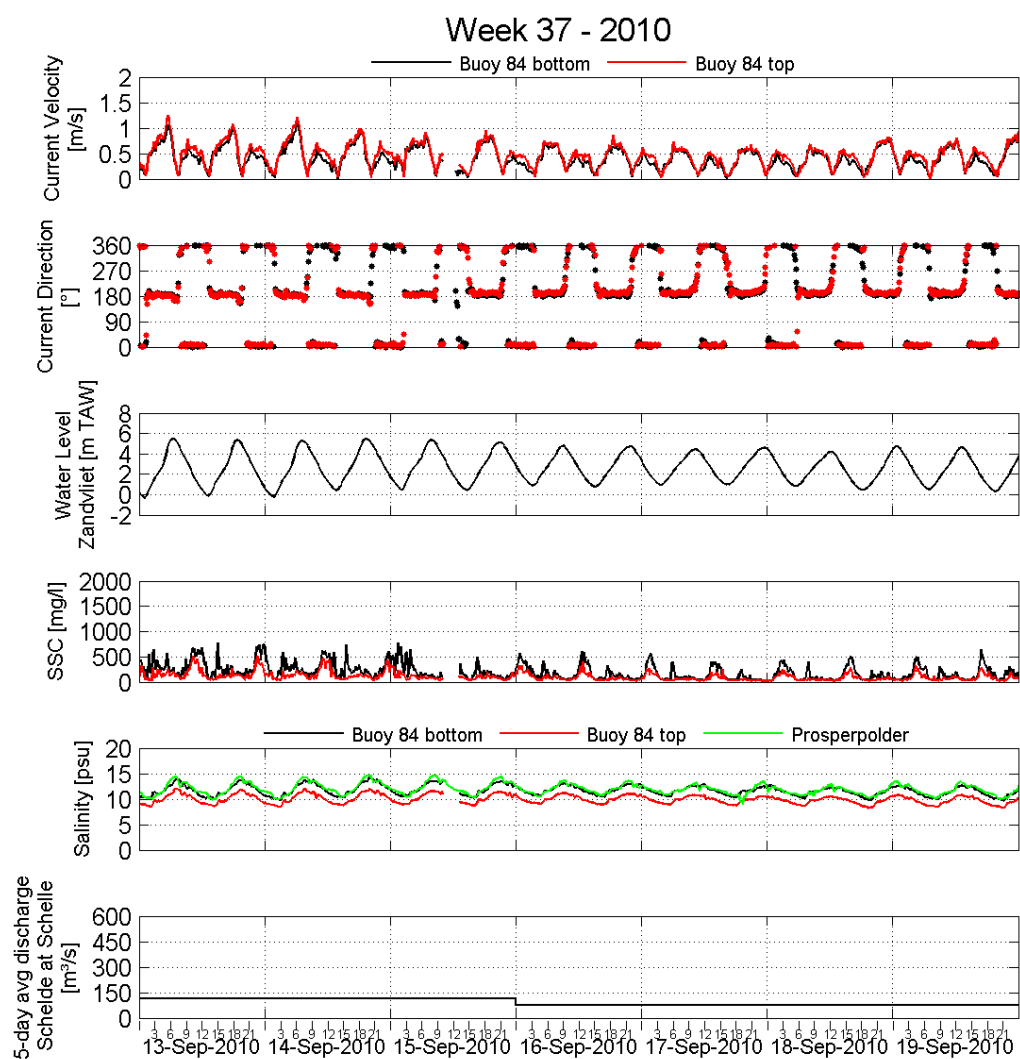


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

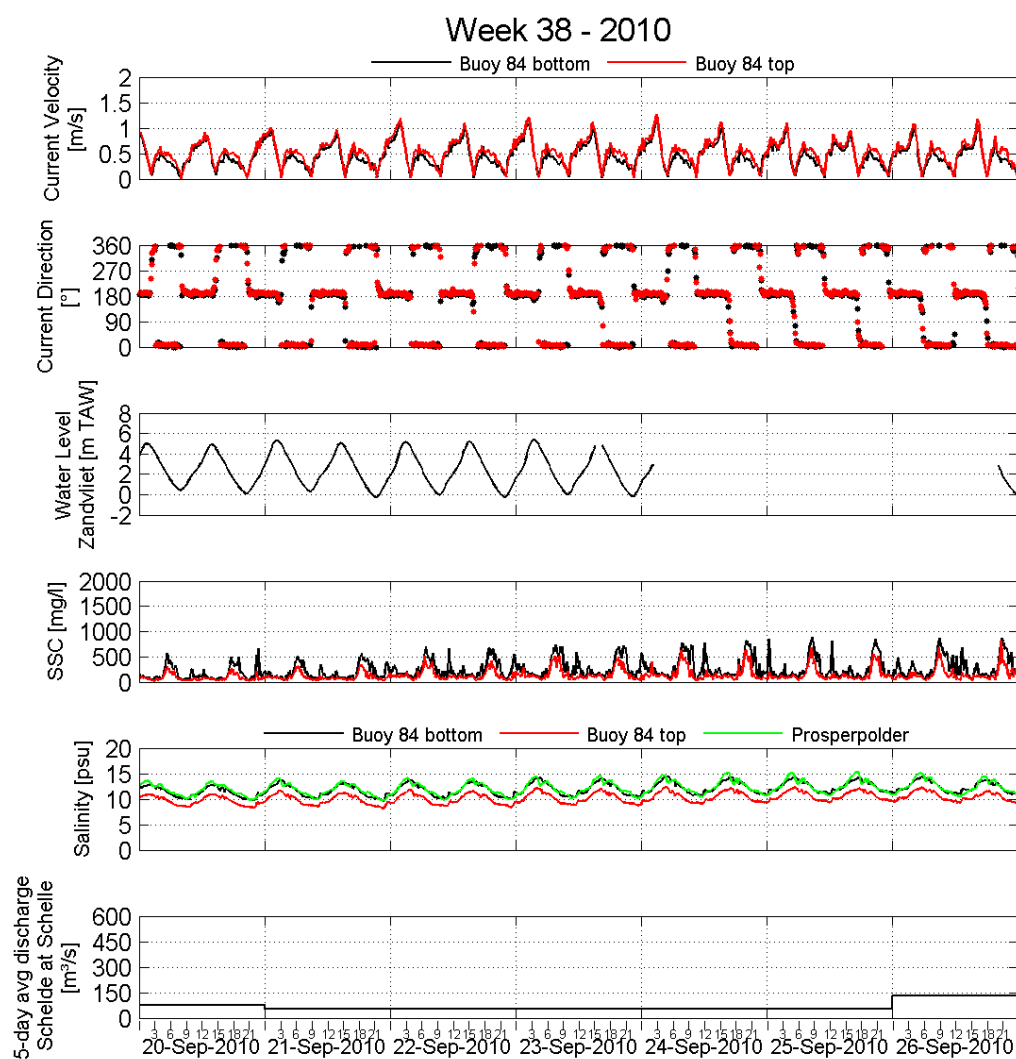


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

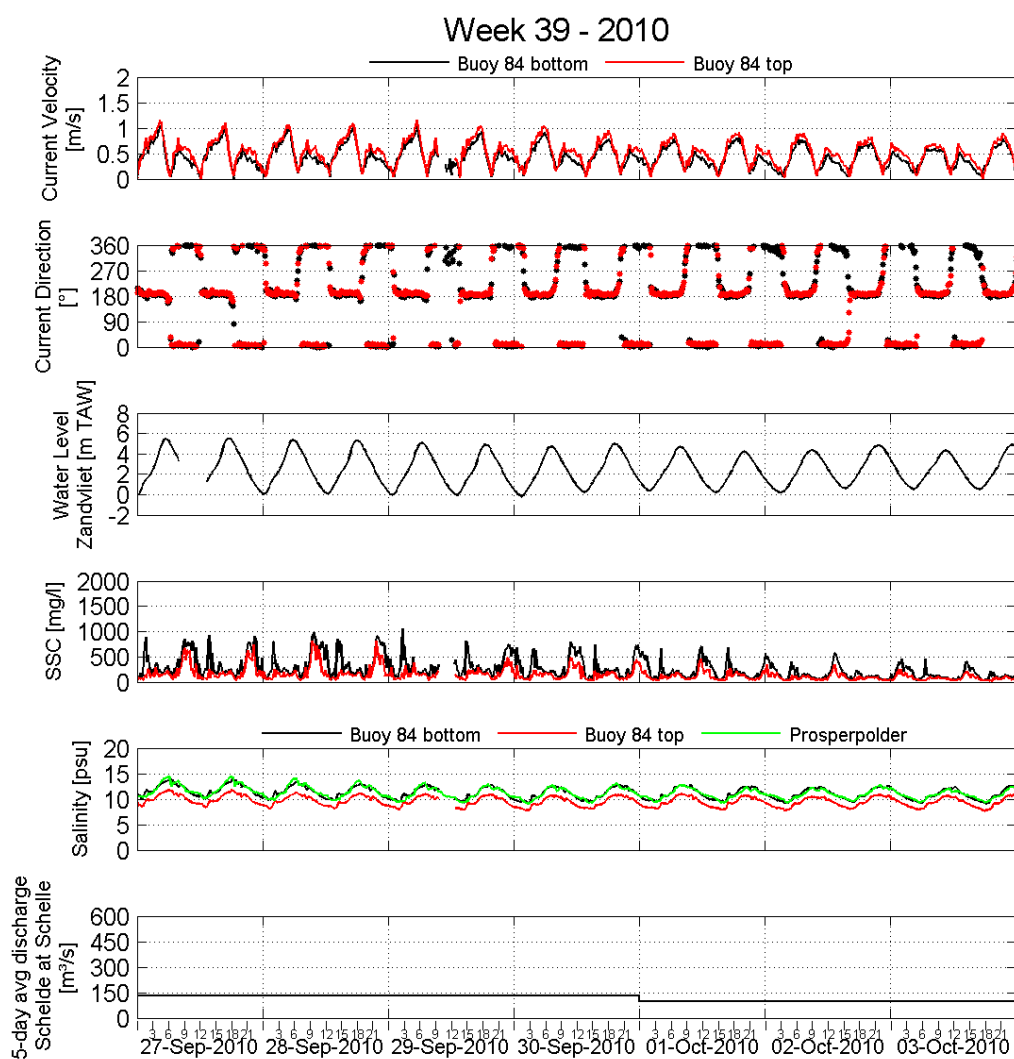


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

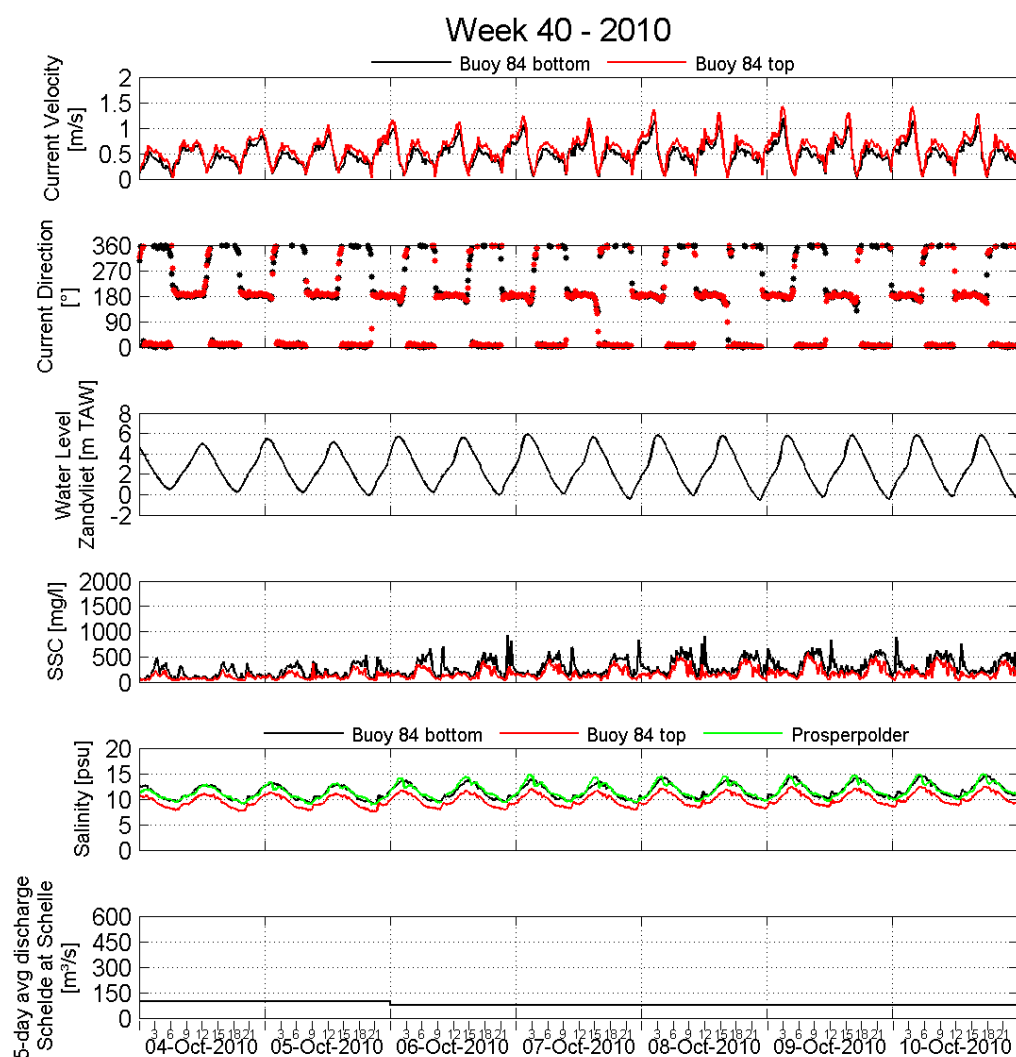


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

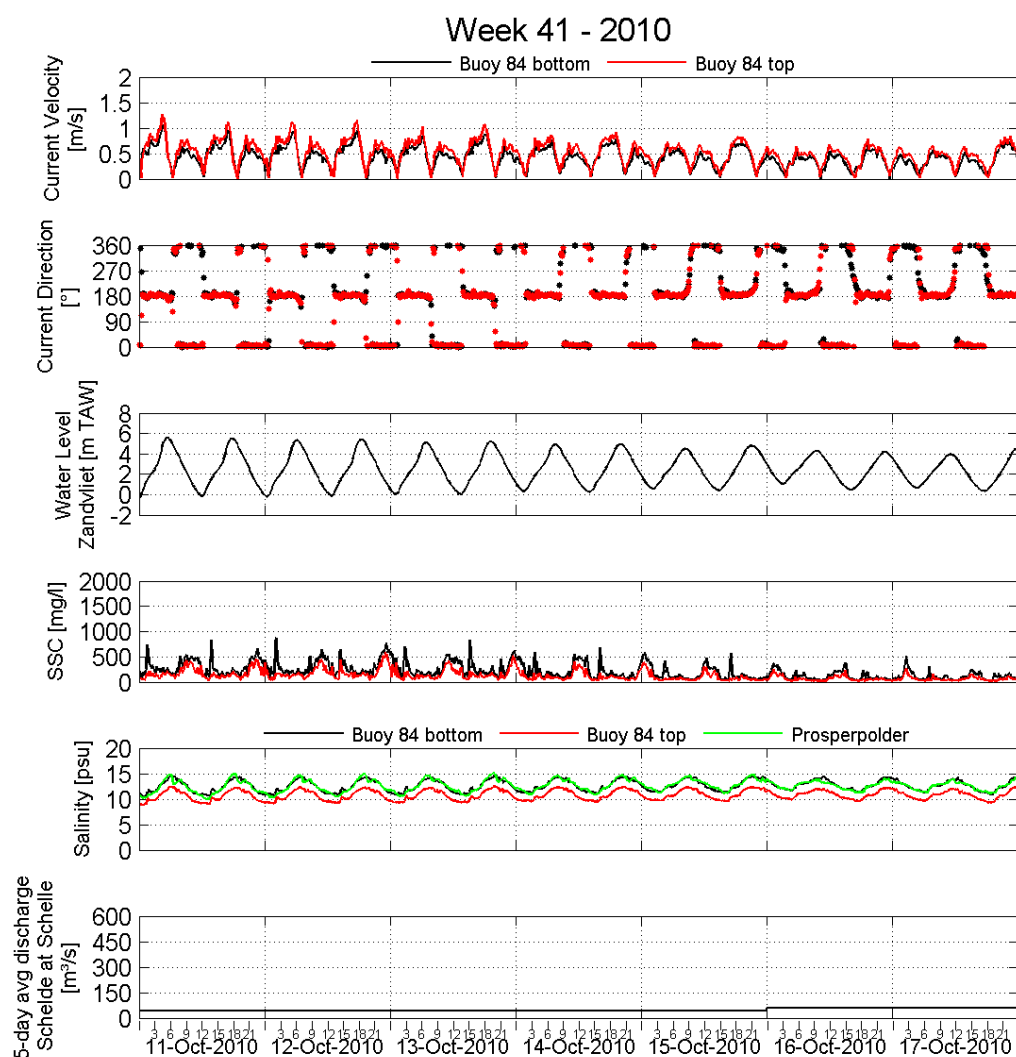


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

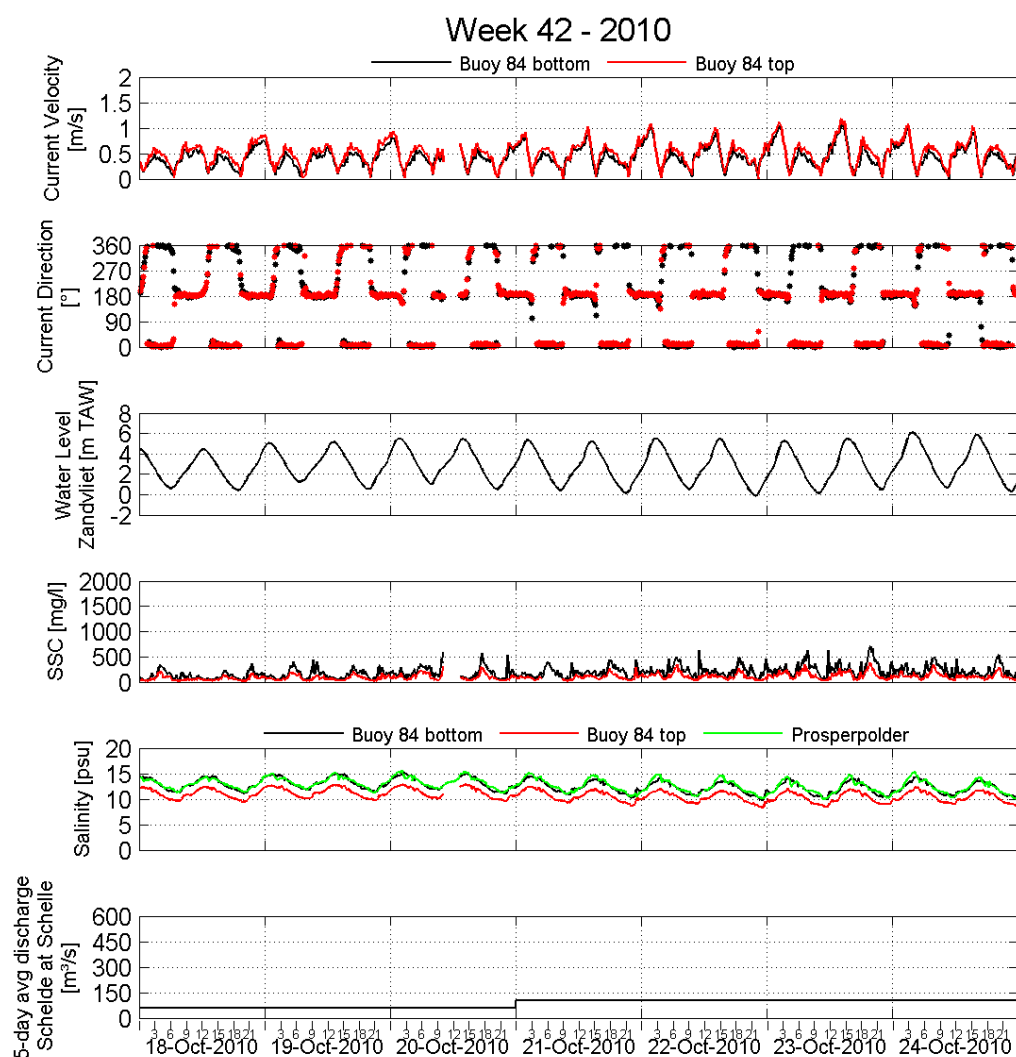


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

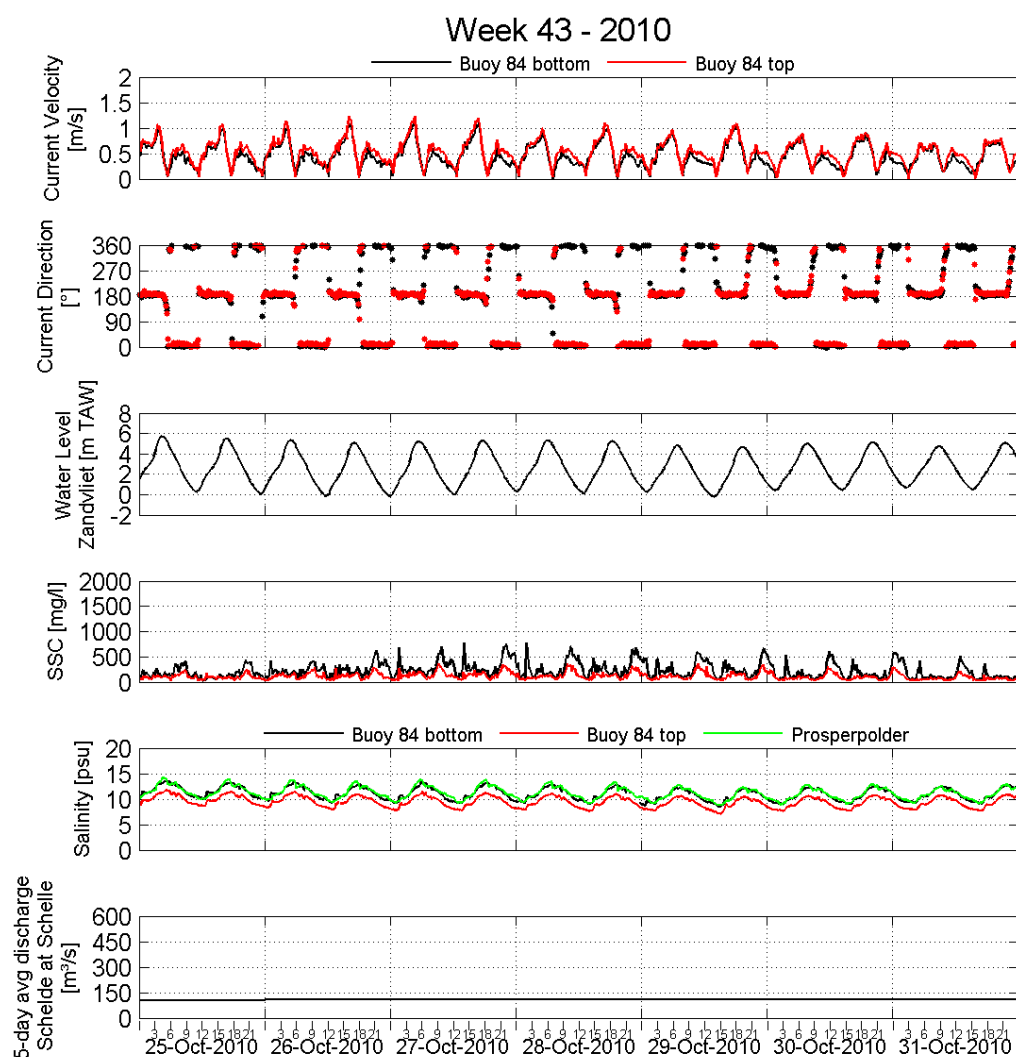


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

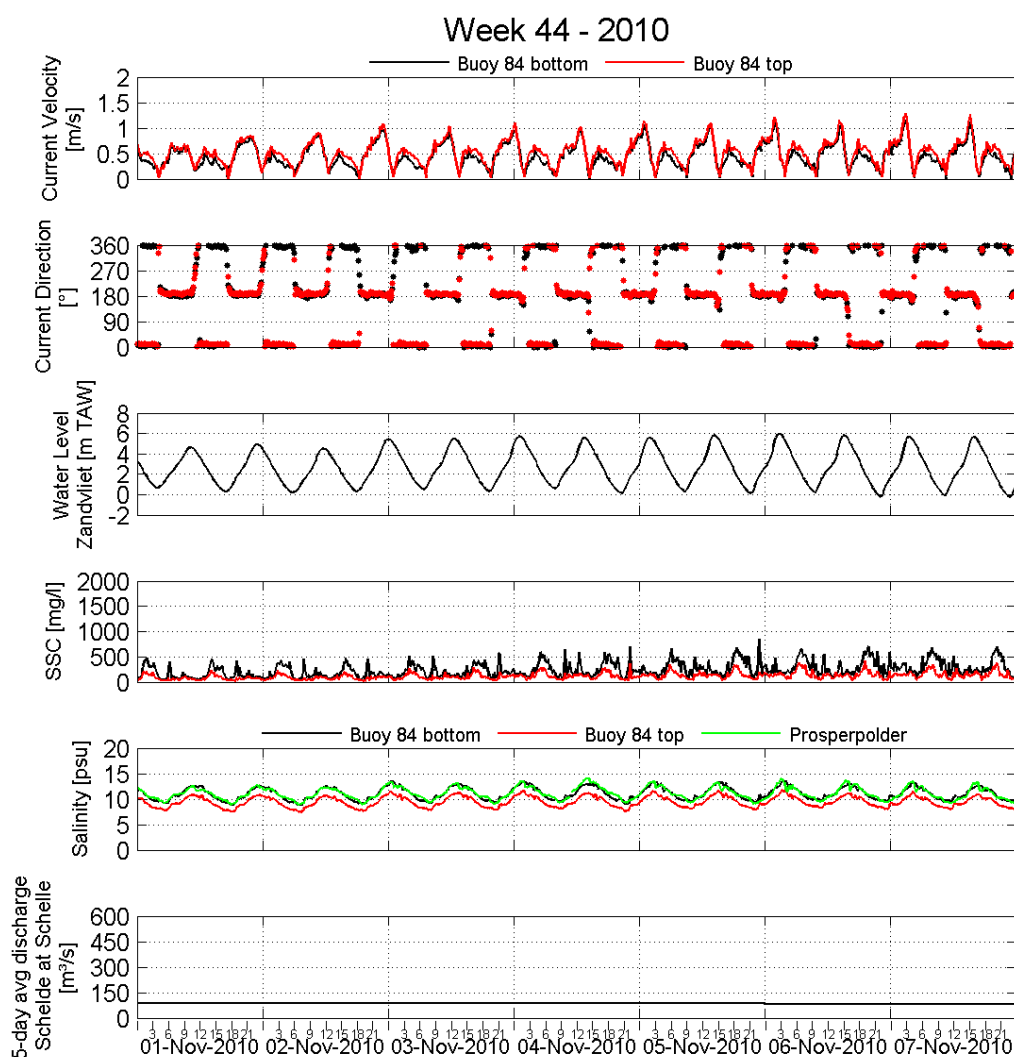


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

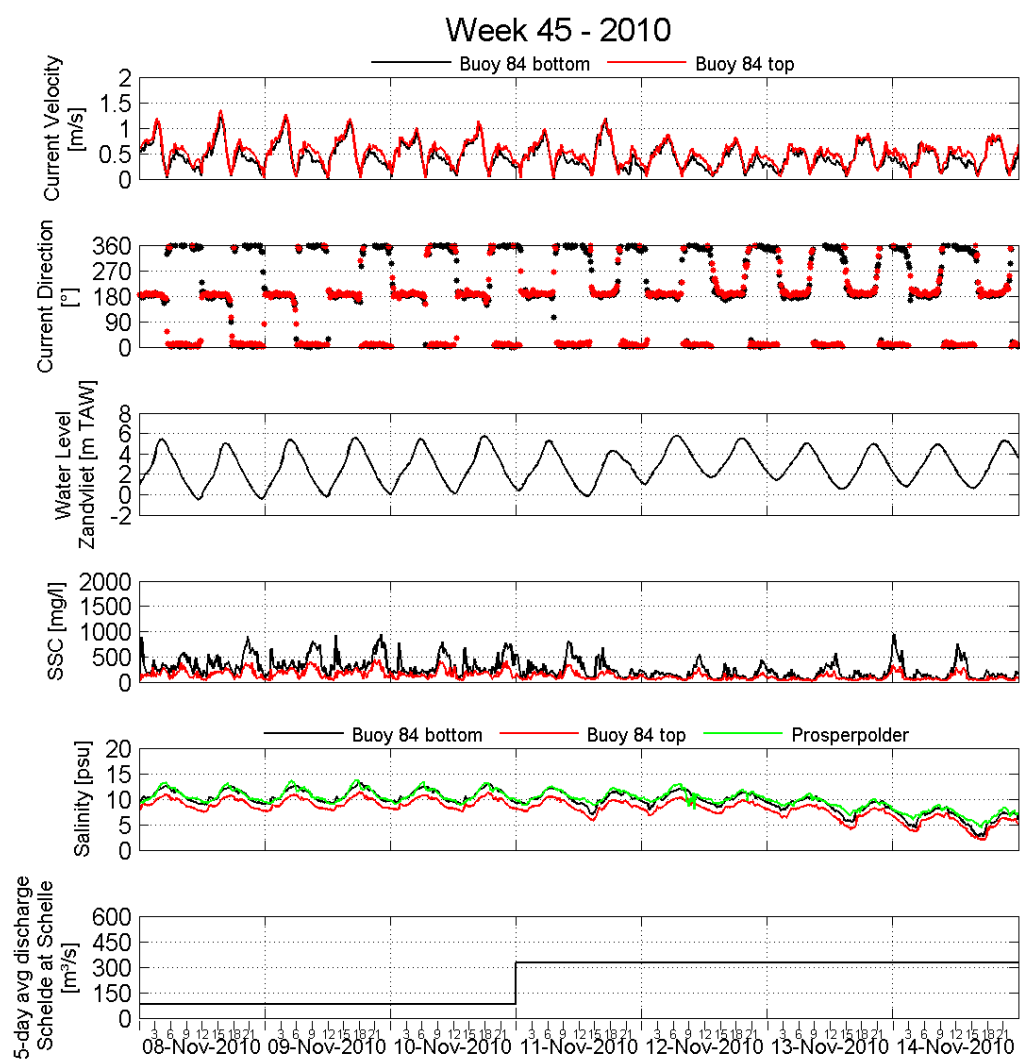


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

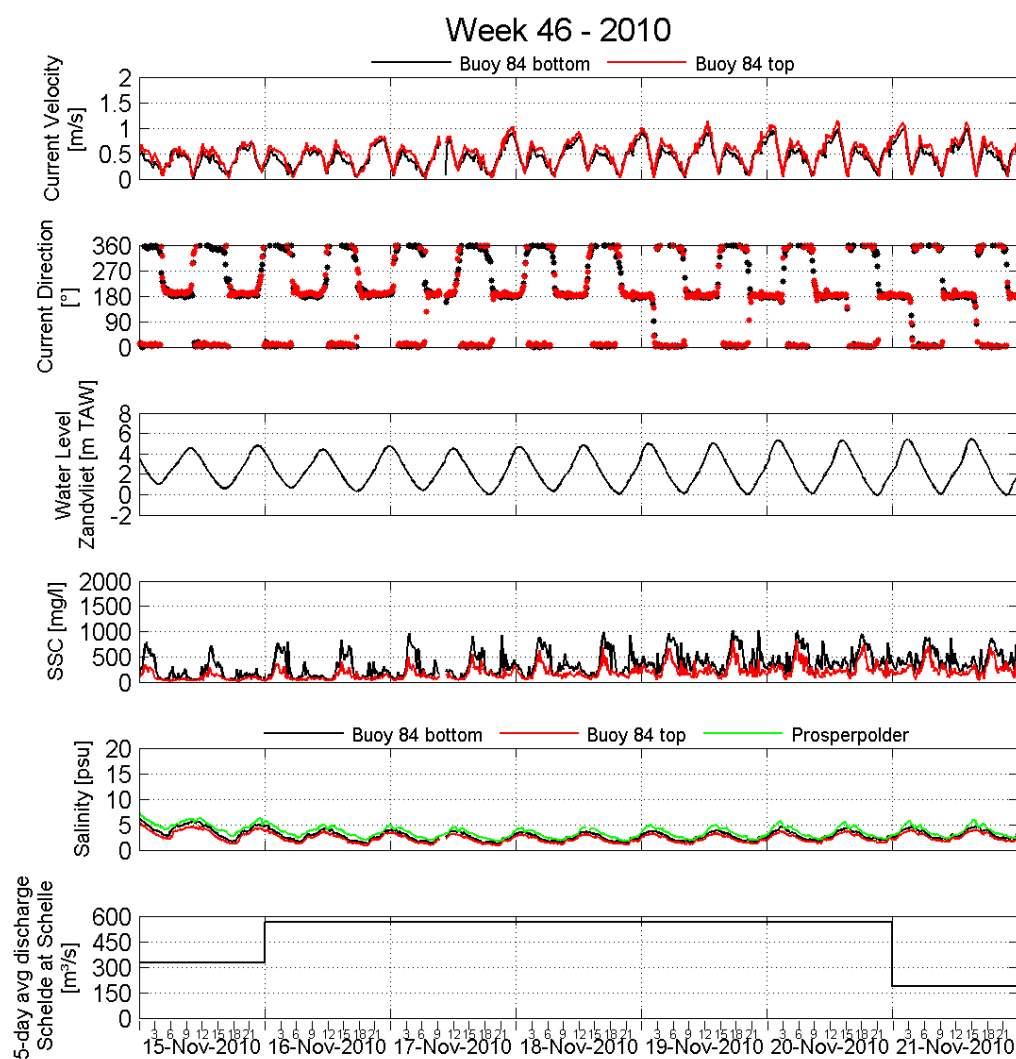


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

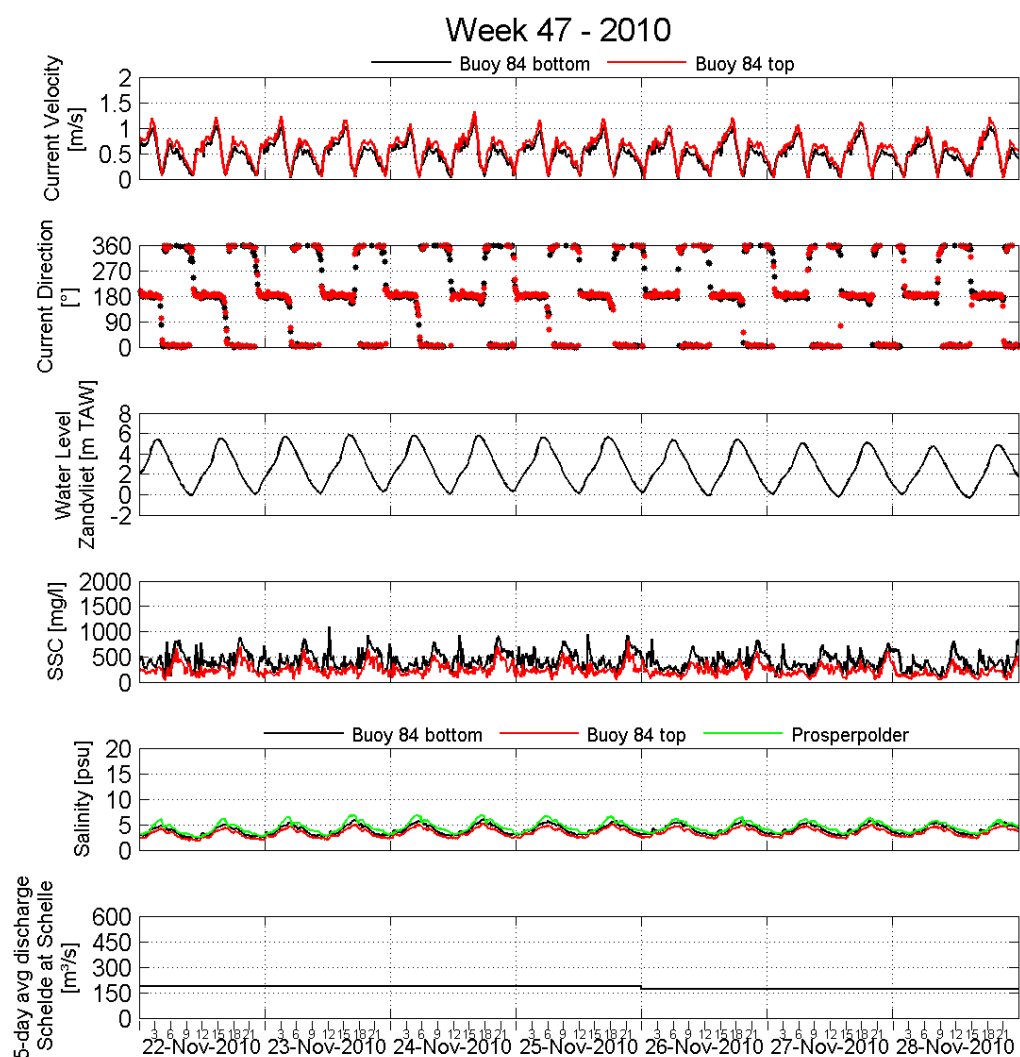


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

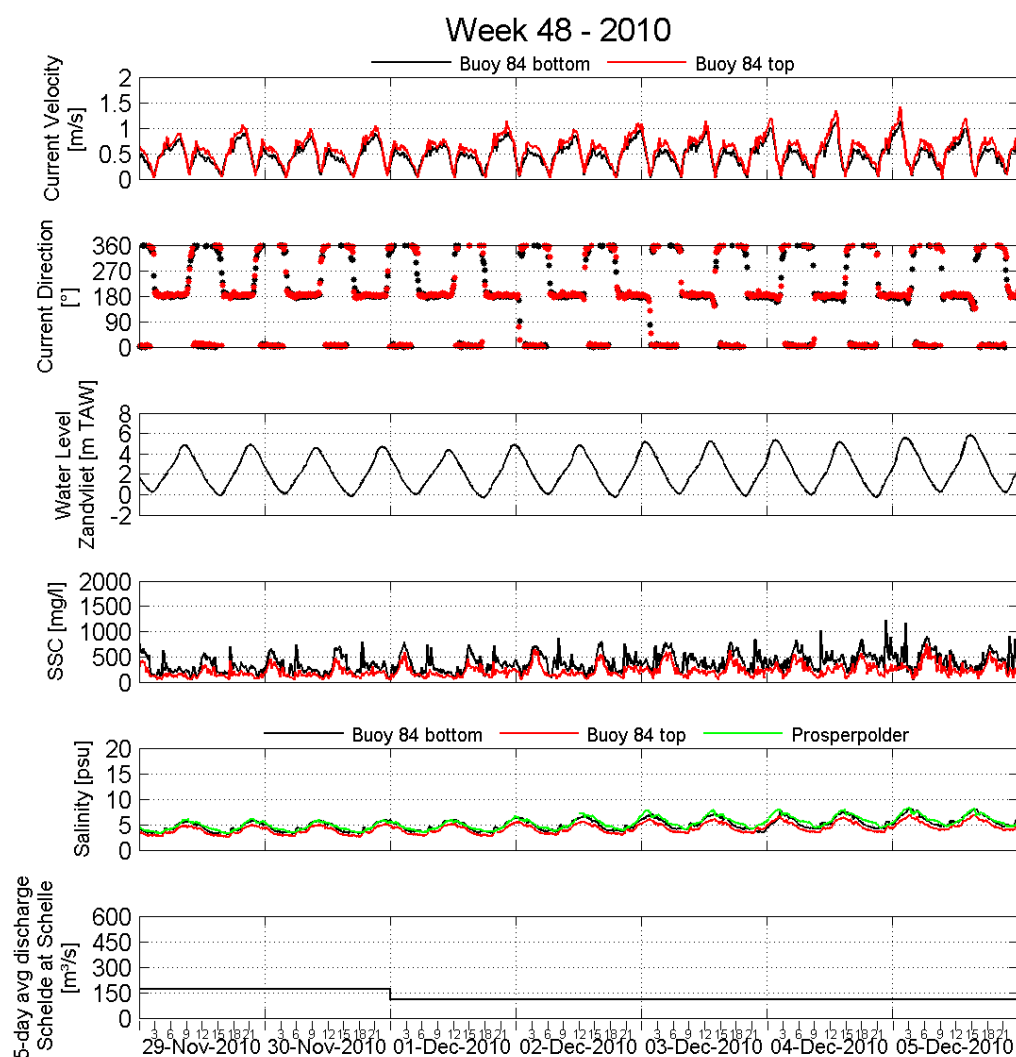


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

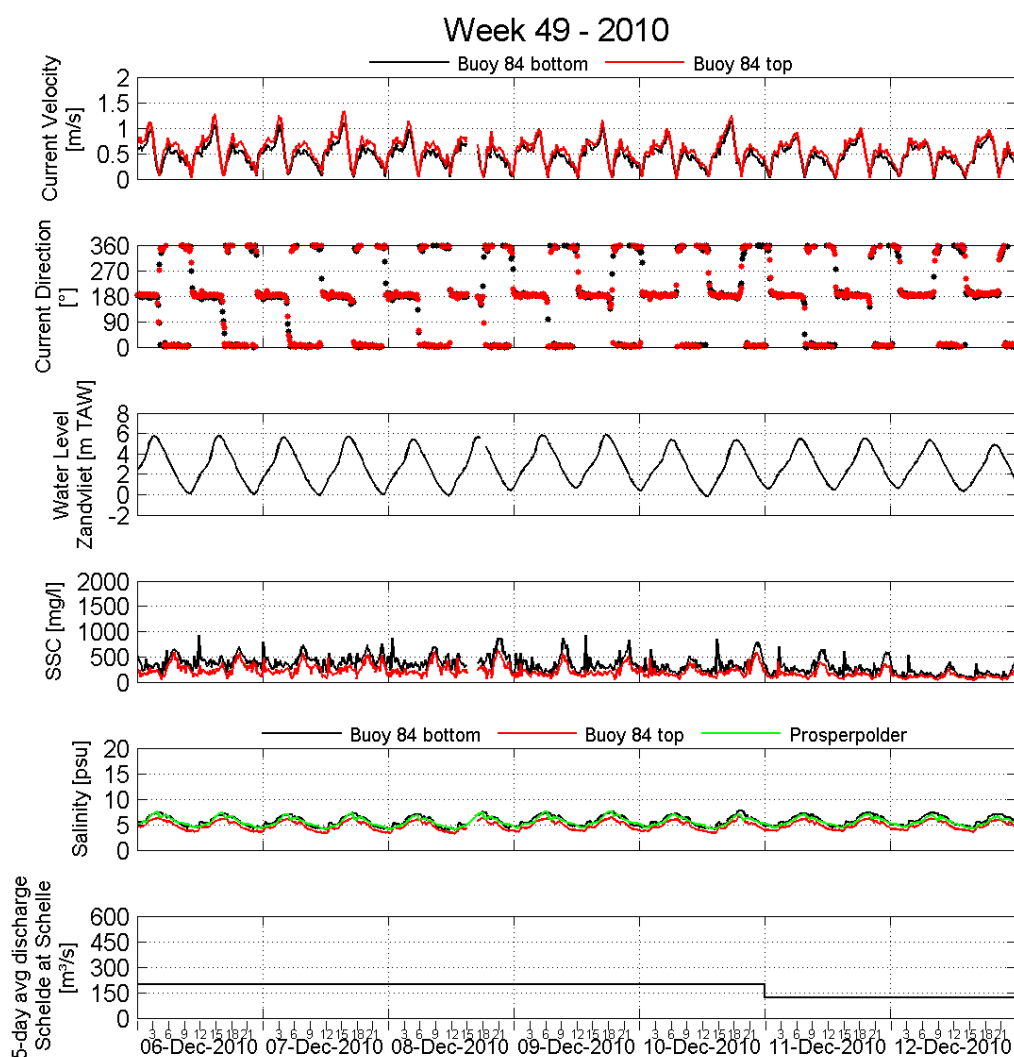


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

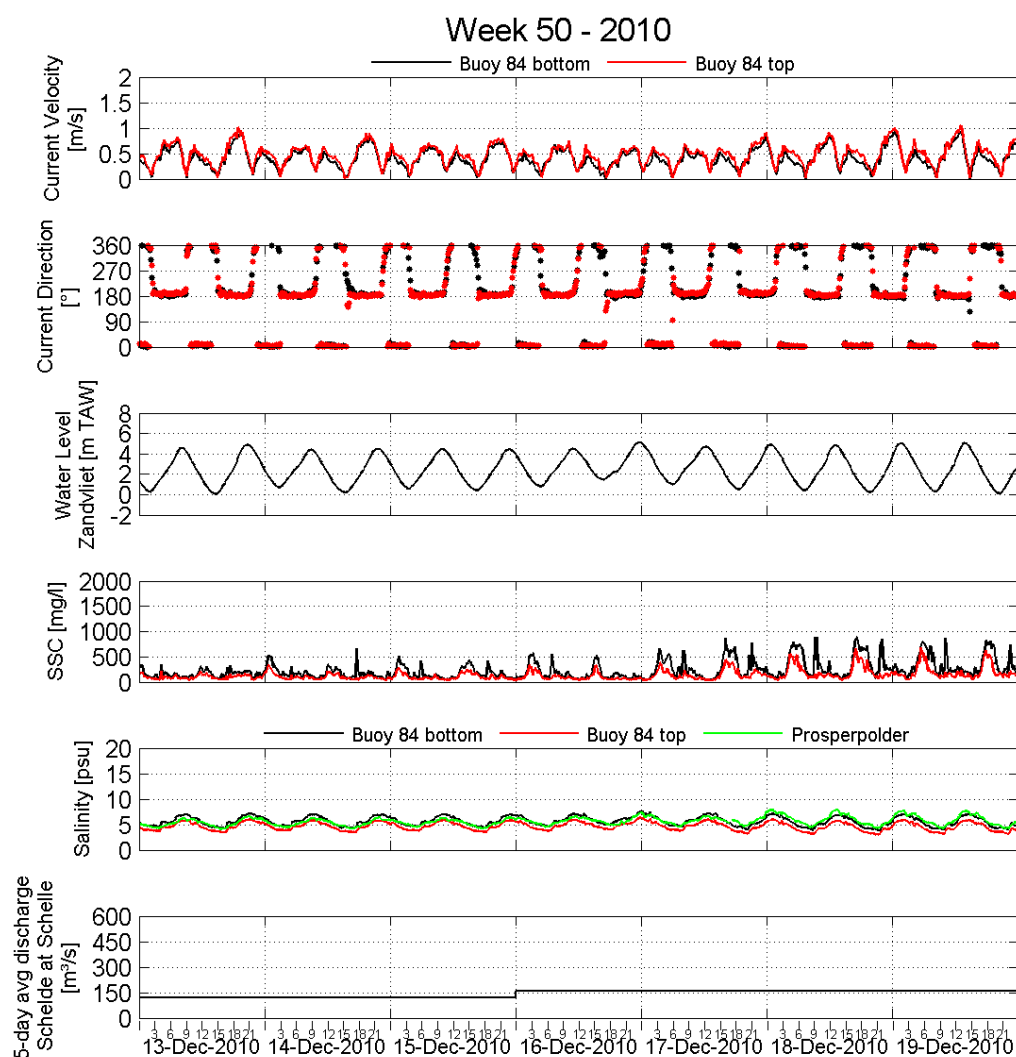


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

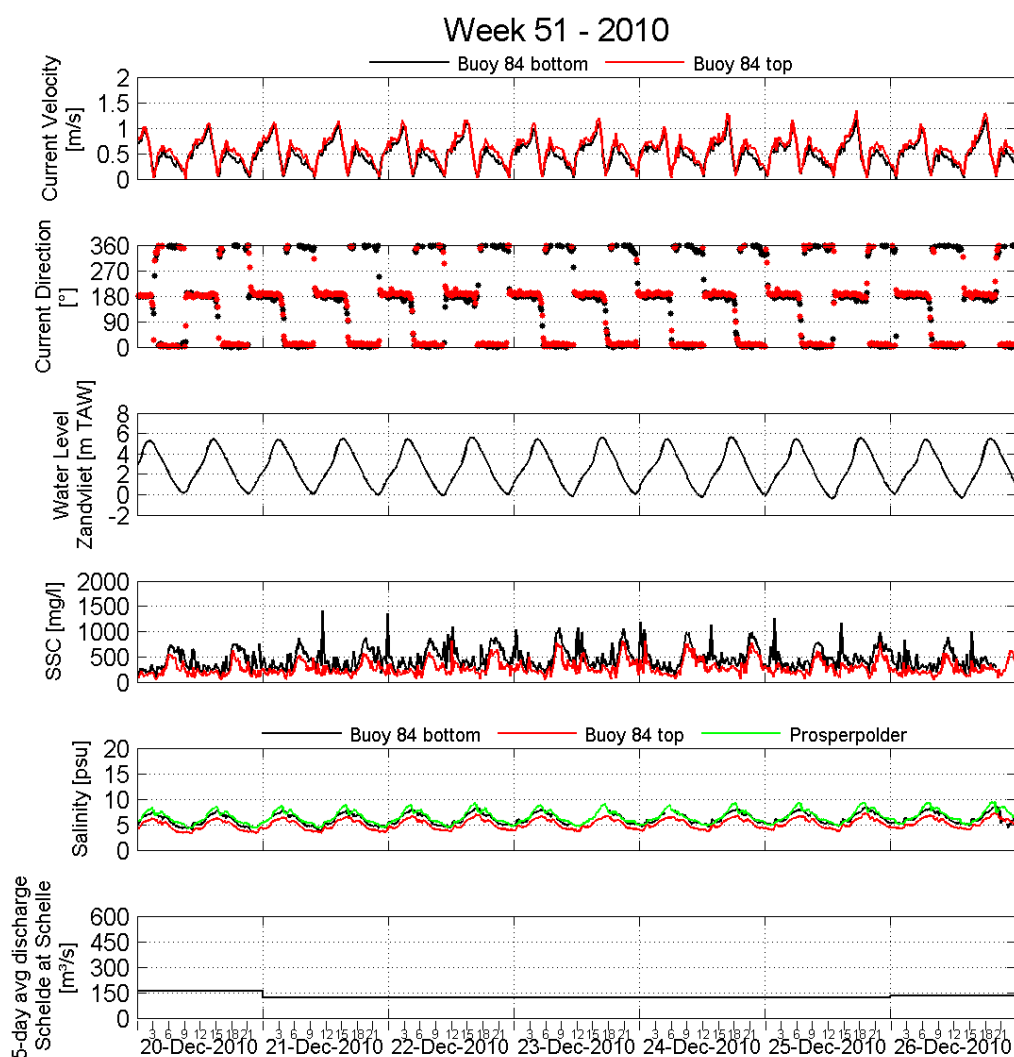


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

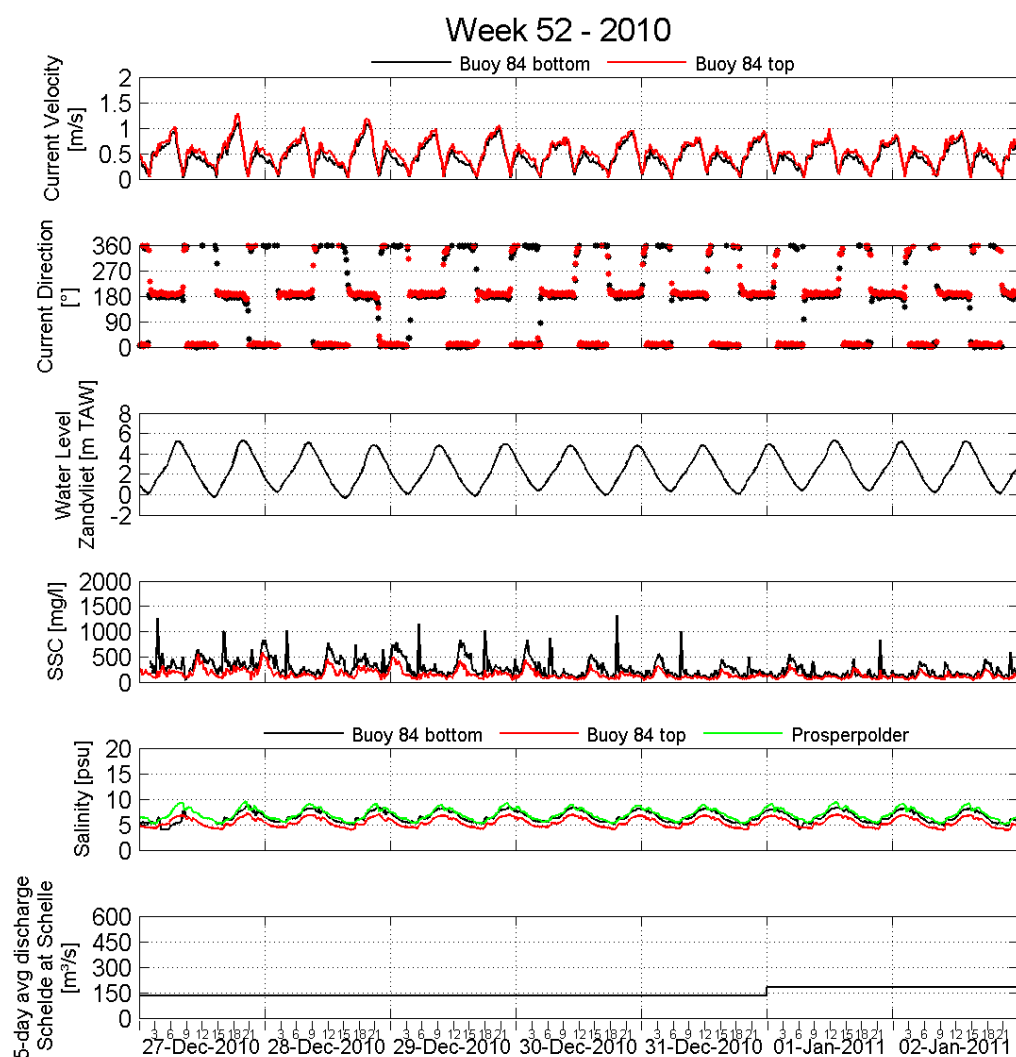


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

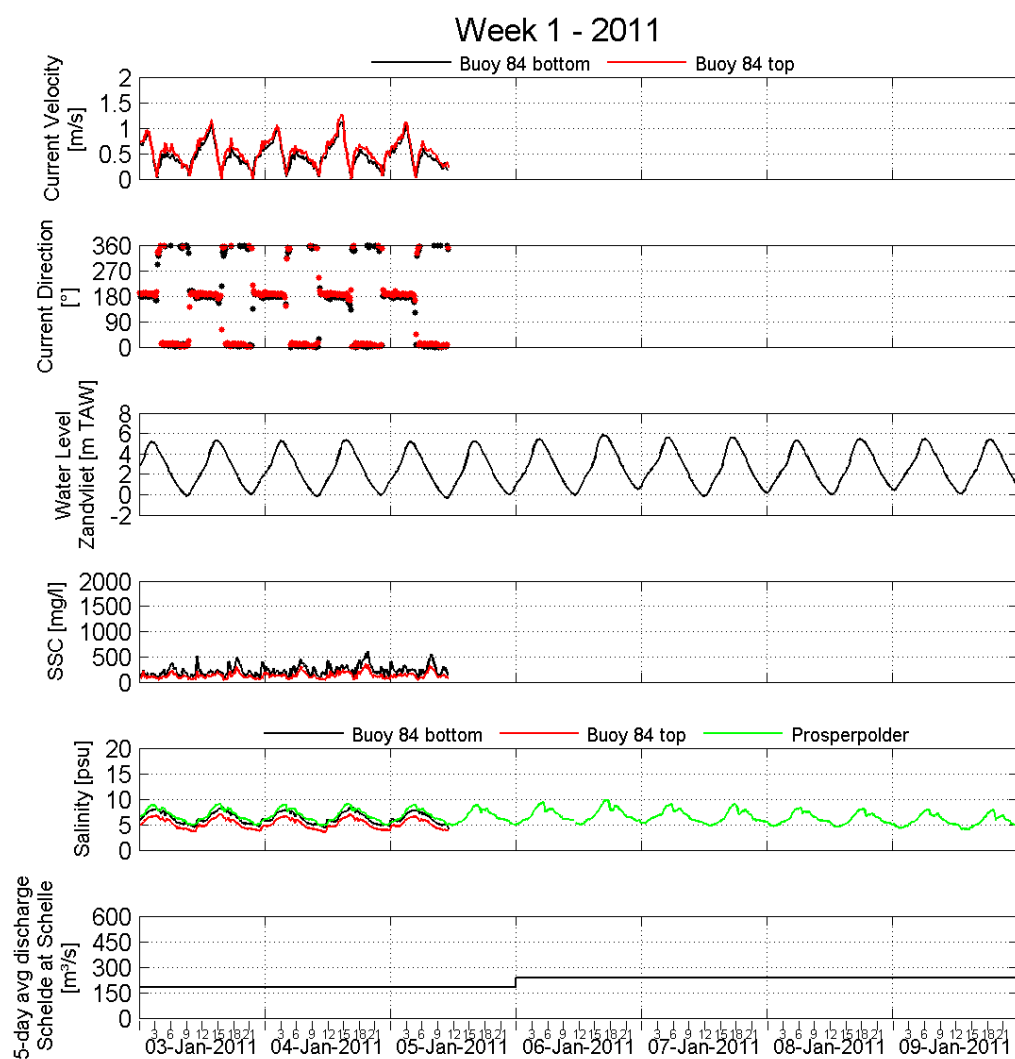


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

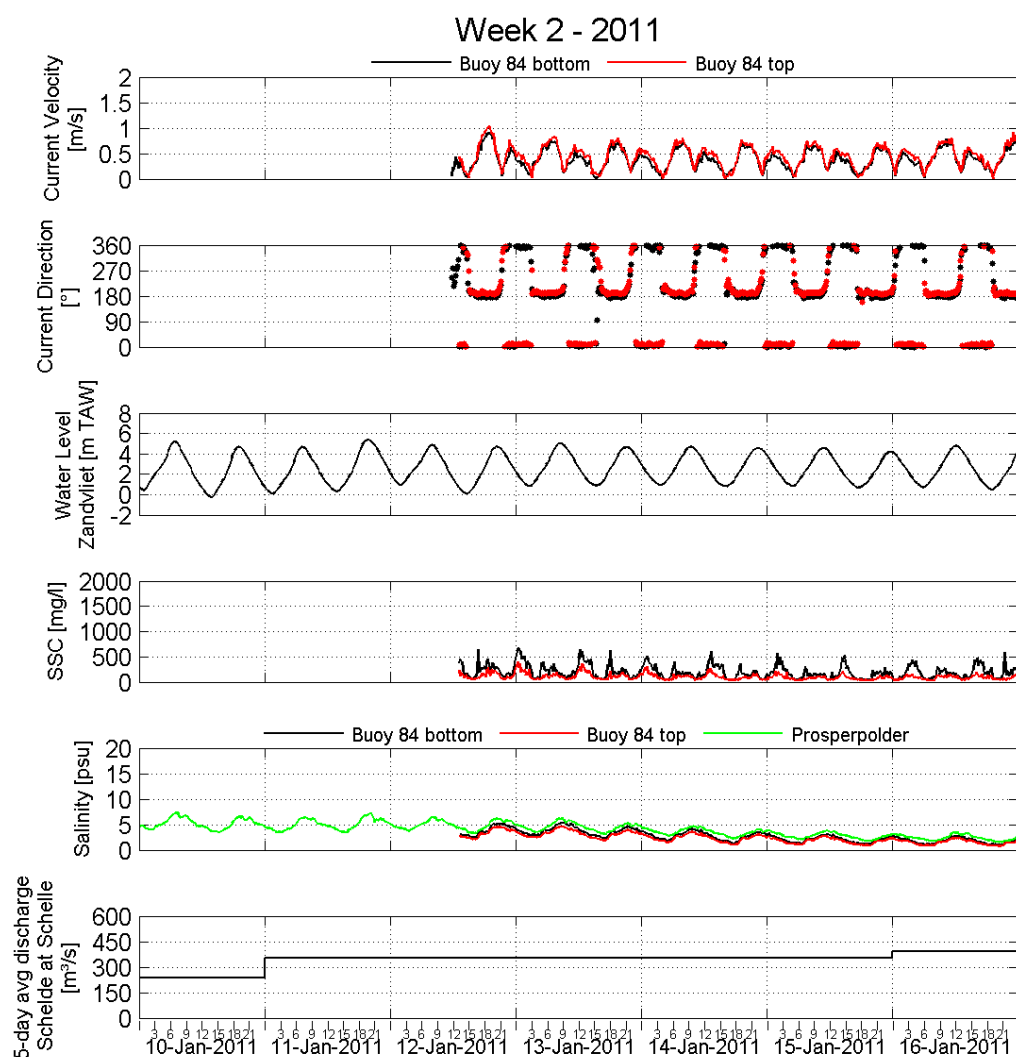


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

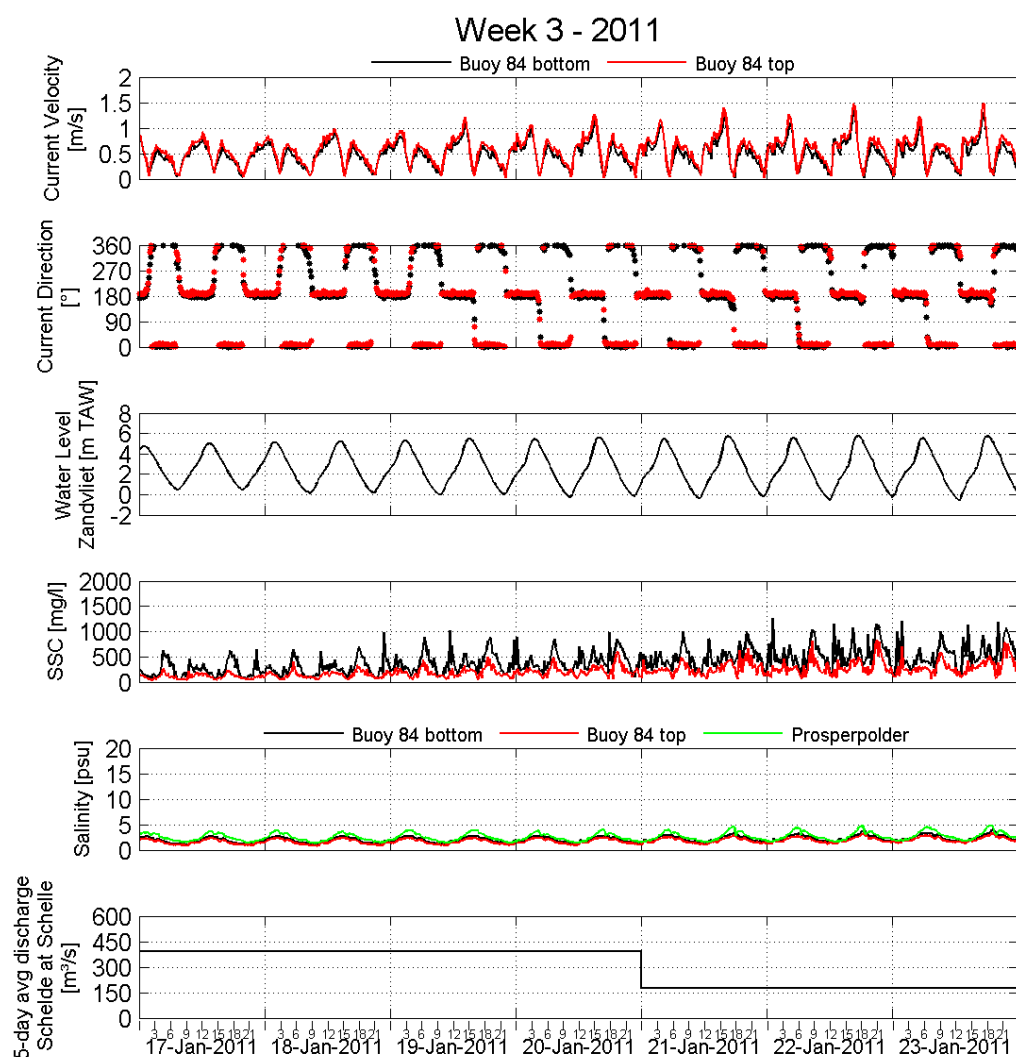


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

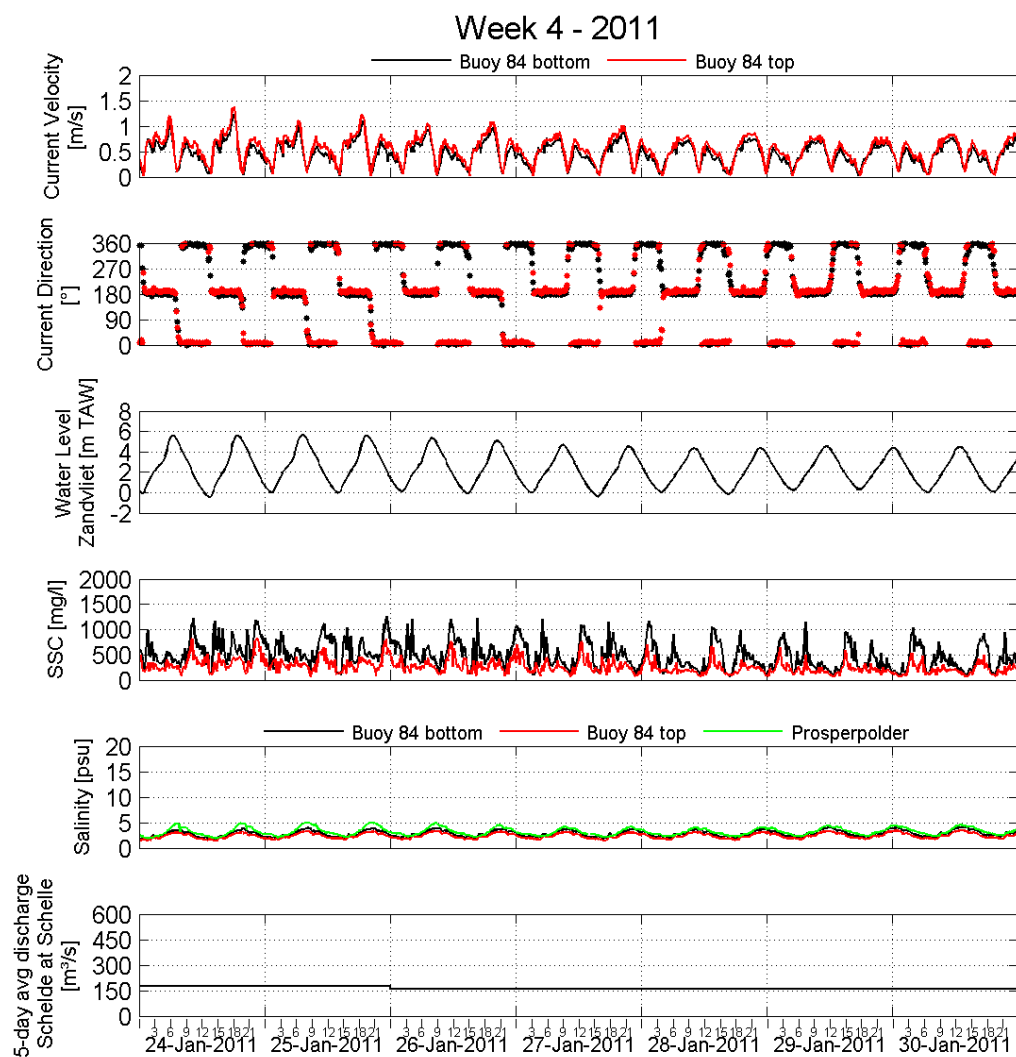


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

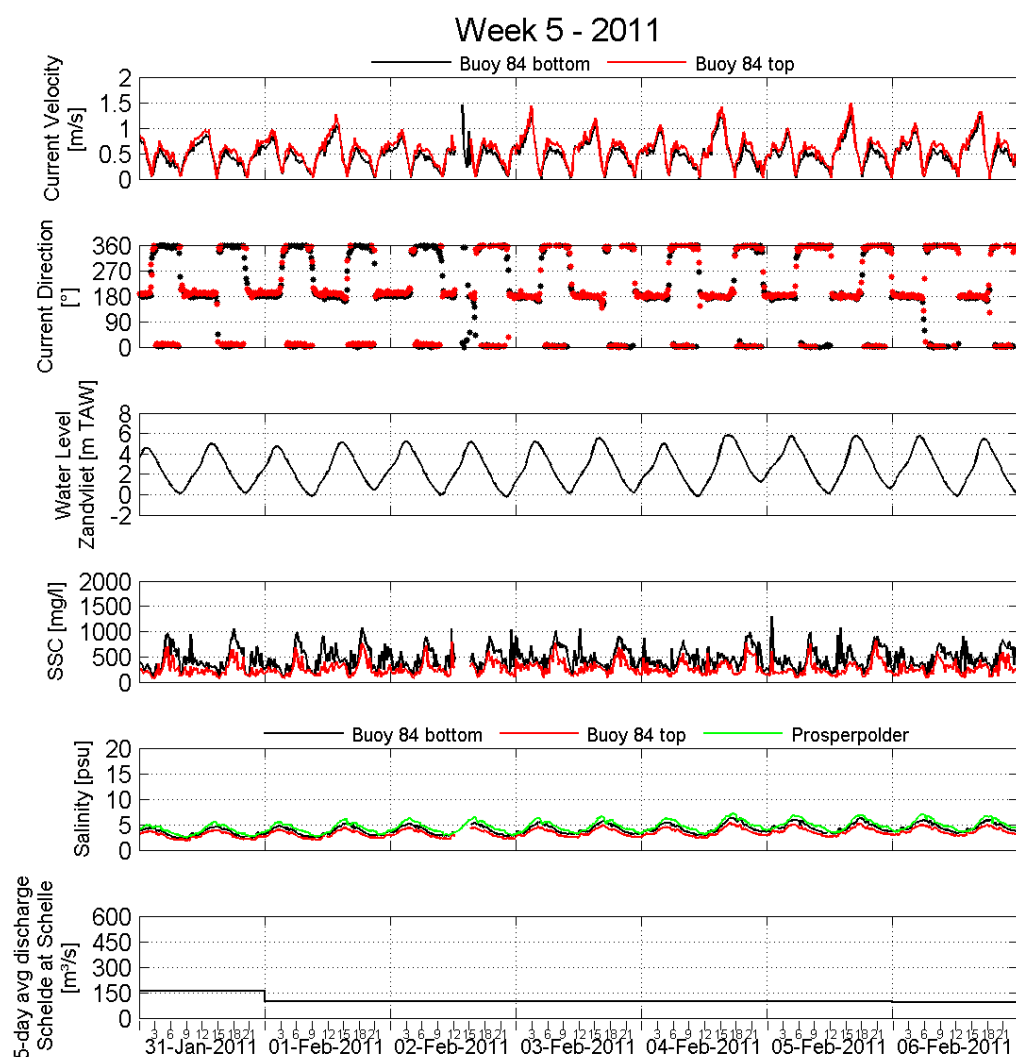


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

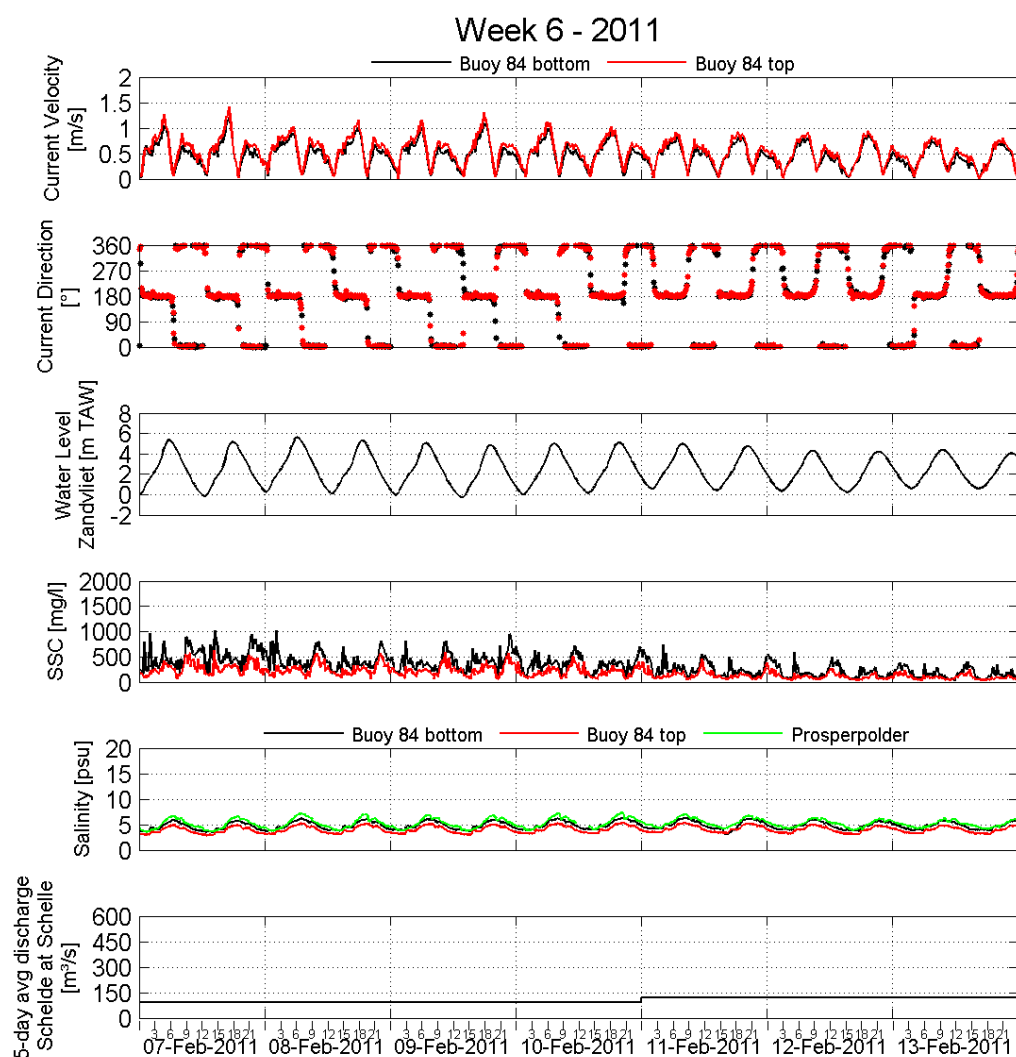


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

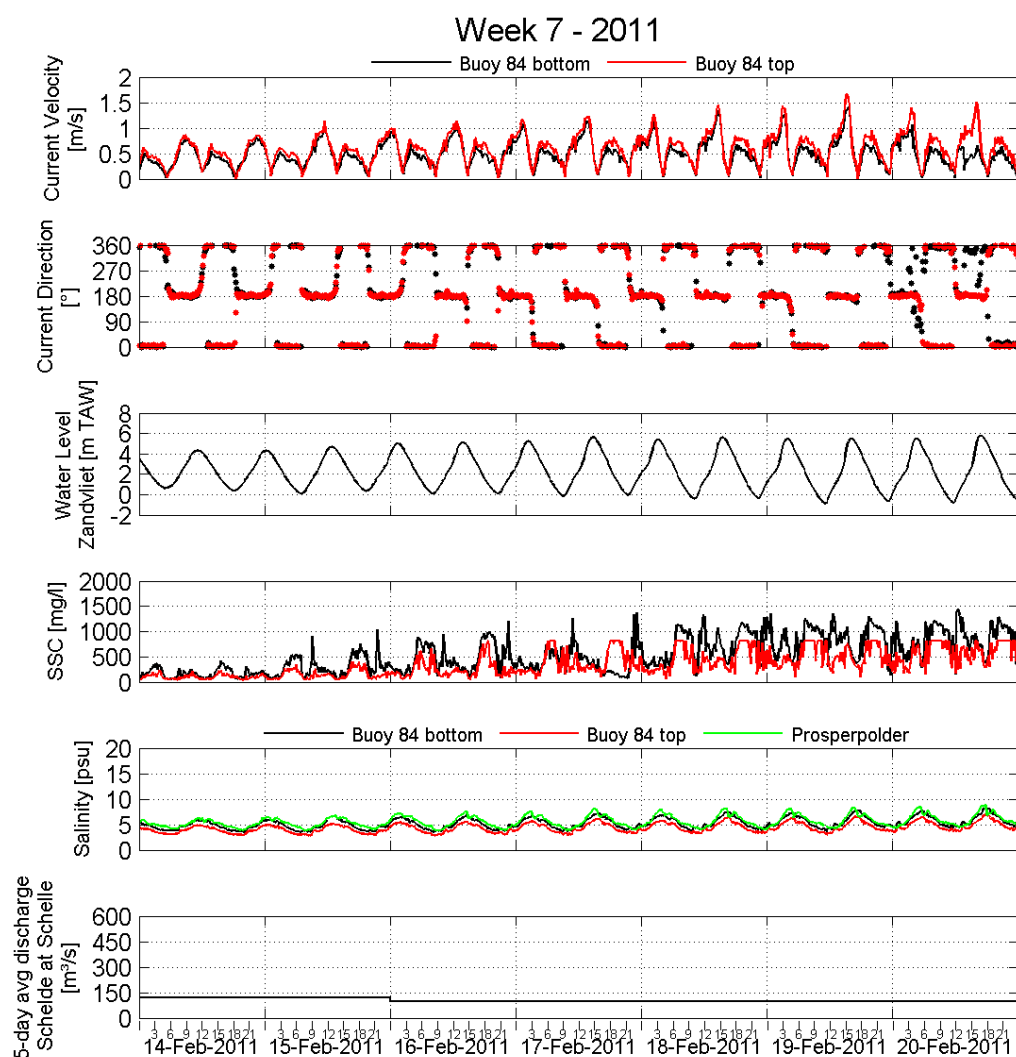


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

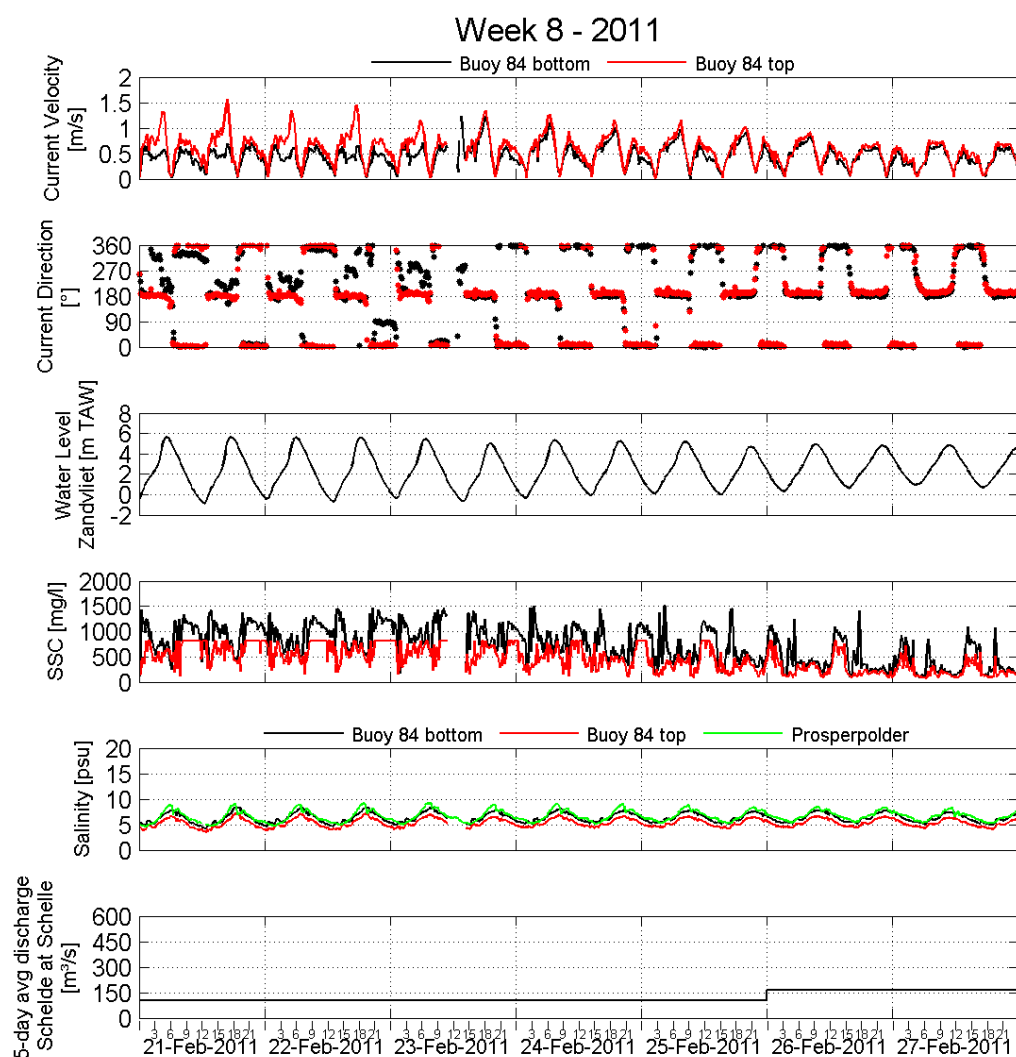


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

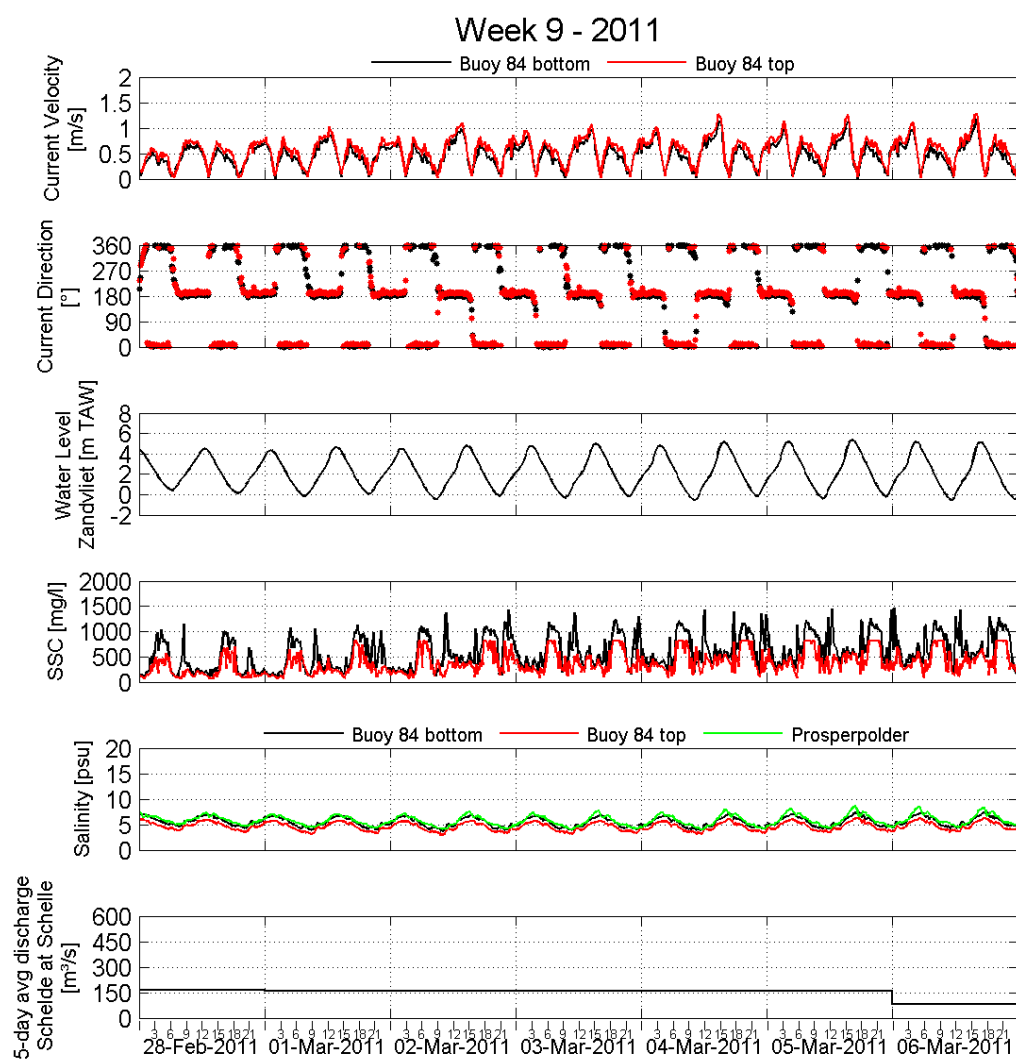


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

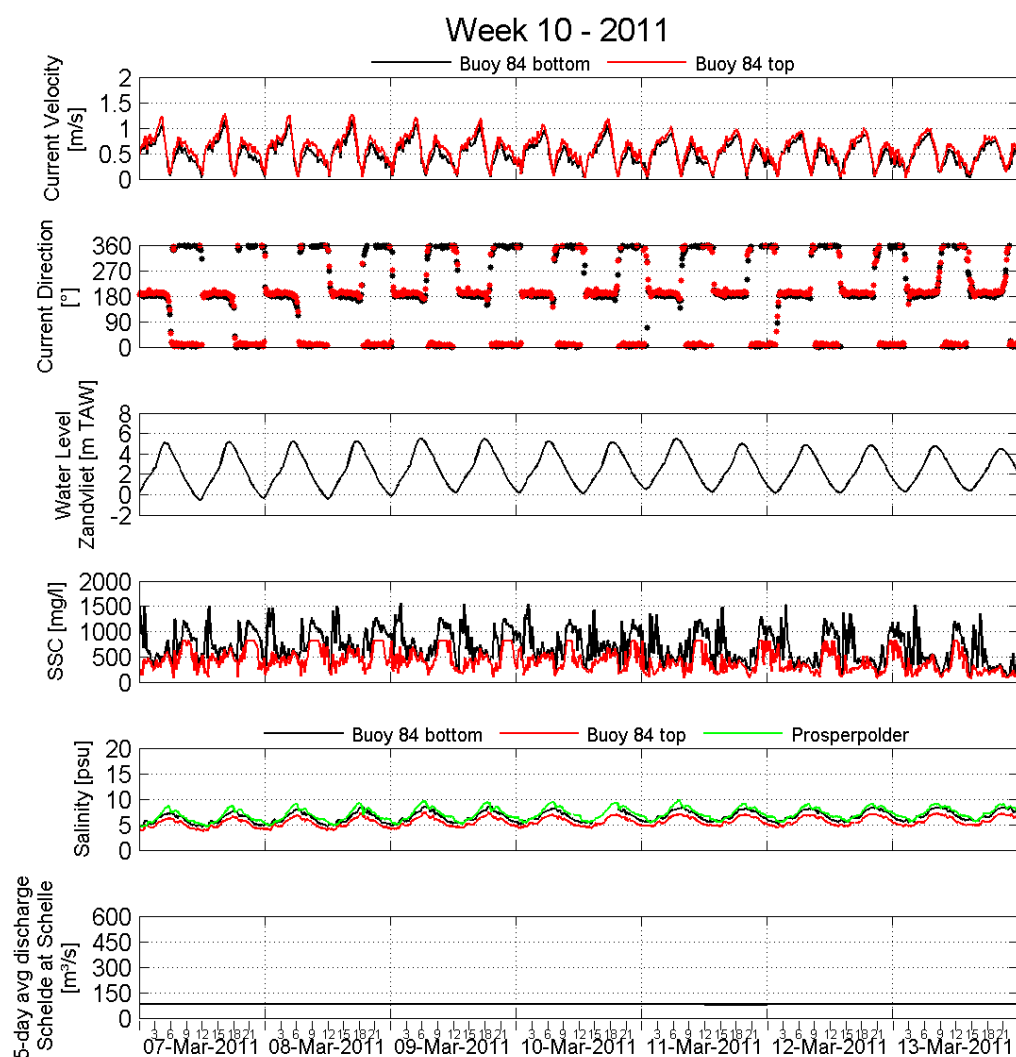


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

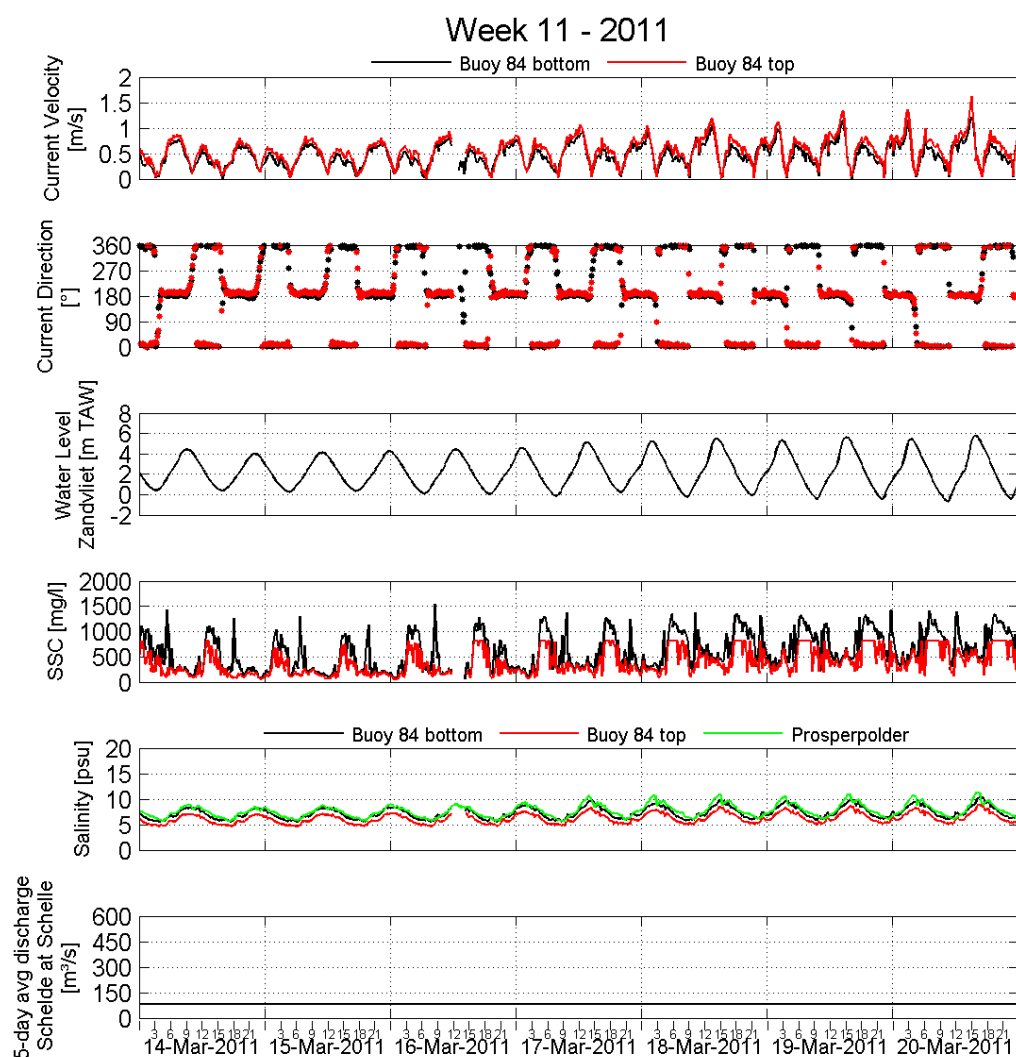


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

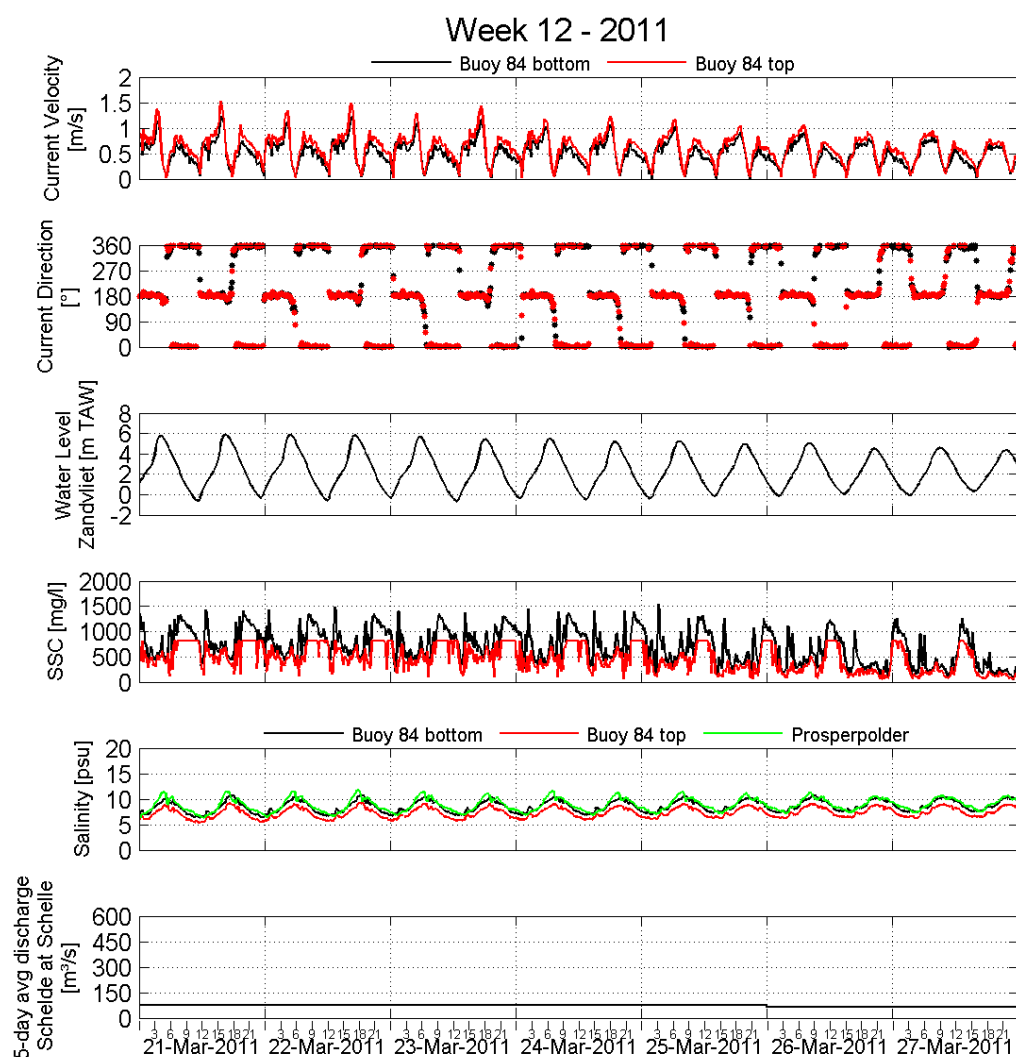


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:

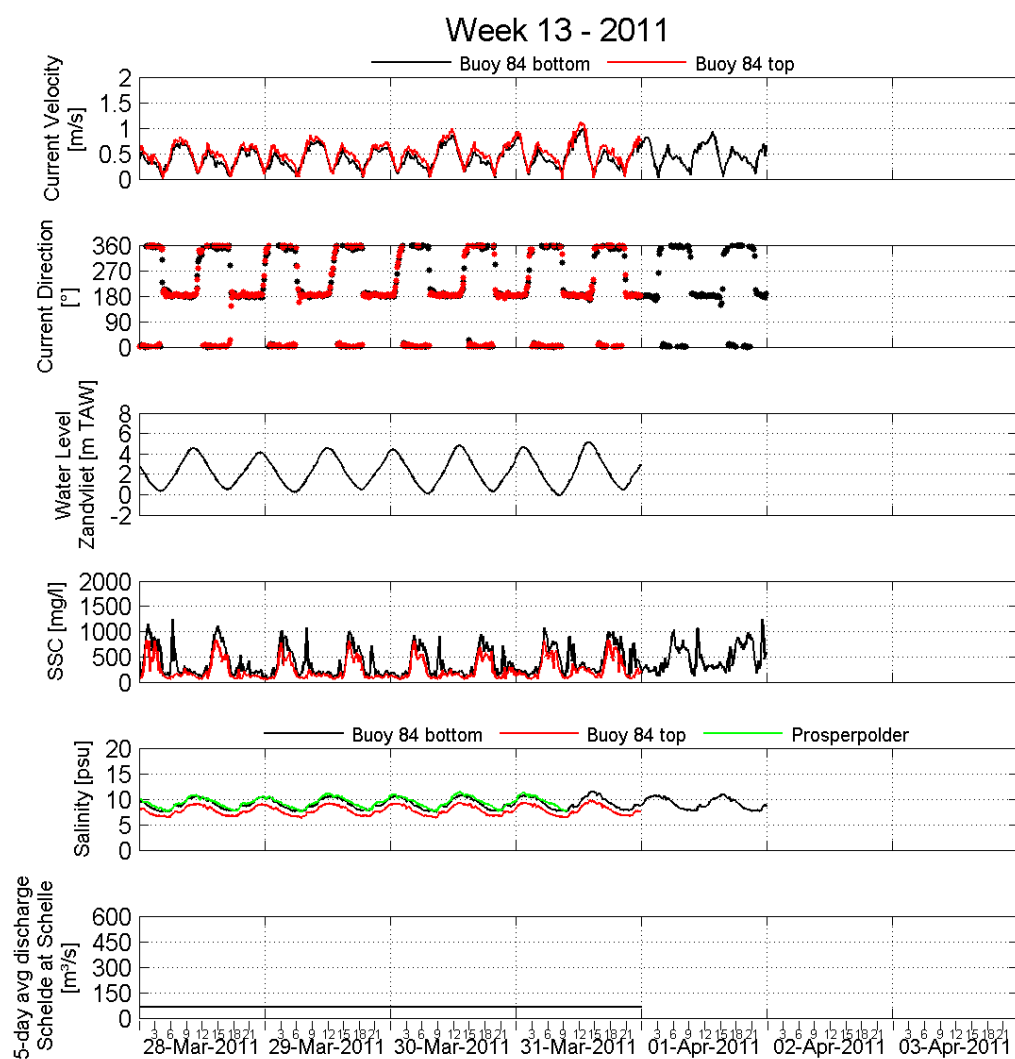


In Association with:



I/RA/11354/10.103/MBO/ANF

11354 Boundary conditions: yearly report 01/04/2010 - 31/03/2011



Week series: current velocity & direction,
tide, suspended sediment concentration,
salinity & discharge

Location:

Buoy 84 (top & bottom) & Prosperpolder

Processed by:



In Association with:



I/RA/11354/10.103/MBO/ANF

A.2 Monthly results Minimum, Maximum and Average Velocity Magnitude, Temperature, Salinity & Suspended Sediment Concentration

Location: Oosterweel left bank
4.5 meter above bottom [-2.0 m TAW]

<i>Velocity magnitude [m/s]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	0.01	1.56	0.65
May 2010	0.01	1.19	0.67
June 2010	0.01	1.16	0.67
July 2010	0.01	1.21	0.65
August 2010	0.01	1.27	0.66
September 2010	0.01	1.45	0.66
October 2010	0.01*	1.33*	0.69*
November 2010	0.01	1.25	0.64
December 2010	0.01*	1.15*	0.63*
January 2011	-	-	-
February 2011	0.01*	1.56*	0.67*
March 2011	0.01	1.40	0.66
<i>Temperature [°C]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	9.82	14.37	11.59
May 2010	12.29	16.65	14.00
June 2010	15.79	21.29	18.48
July 2010	21.10	24.11	22.85
August 2010	18.72	22.53	21.00
September 2010	16.08	19.49	18.02
October 2010	10.48*	17.54*	14.34*
November 2010	5.91	13.08	10.09
December 2010	2.73*	7.26*	4.12*
January 2011	-	-	-
February 2011	5.97*	7.55*	6.63*
March 2011	6.20	10.67	7.96

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
April 2010	0.6	0.5	6.9	1.9	4.9	1
May 2010	1.3	1	8.4	1.9	6.7	1.4
June 2010	3.3	1.3	10.4	3.5	8.9	2.1
July 2010	3.9	2.5	11.6	4.4	10.3	3.6
August 2010	1.3	1.2	12.4	4.3	9.5	2.8
September 2010	1.3	0.9	9.4	2.3	7.8	1.4
October 2010	1.1*	0.7*	8.9*	1.5*	7.4*	1*
November 2010	0.2	0.1	8.2	1.2	3.7	0.6
December 2010	0.5*	0.4*	3.8*	0.6*	2.5*	0.5*
January 2011	-	-	-	-	-	-
February 2011	0.5*	0.5*	4.3*	0.8*	3.2*	0.7*
March 2011	0.9	0.4	6.4	1.3	4.5	0.8
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
April 2010	64.01		910.35		495.88	
May 2010	29.27		700.66		212.46	
June 2010	27.25		437.76		148.18	
July 2010	32.01		461.87		184.09	
August 2010	29.27		653.14		210.12	
September 2010	51.96		657.54		255.37	
October 2010	39.68*		481.39*		177.98*	
November 2010	22.55		560.88		235.00	
December 2010	49.02*		507.00*		231.92*	
January 2011	-		-		-	
February 2011	54.93*		762.85*		422.21*	
March 2011	47.57		800.48		377.32	

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Location: Oosterweel left bank
1.0 meter above bottom [-5.5 m TAW]

<i>Velocity magnitude [m/s]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	0.01	1.29	0.53
May 2010	0.01	1.11	0.55
June 2010	0.01	1.07	0.55
July 2010	0.01	1.17	0.54
August 2010	0.01	1.19	0.54
September 2010	0.01	1.28	0.54
October 2010	-	-	-
November 2010	-	-	-
December 2010	0.01*	1.09*	0.53*
January 2011	0.01	1.2	0.48
February 2011	0.01	1.39	0.5
March 2011	0.01	1.16	0.51
<i>Temperature [°C]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	9.80	14.39	11.60
May 2010	12.29	16.66	14.00
June 2010	15.77	21.31	18.48
July 2010	21.11	24.18	22.87
August 2010	18.74	22.57	21.02
September 2010	16.09	19.48	18.04
October 2010	-	-	-
November 2010	-	-	-
December 2010	1.95*	4.00*	2.73*
January 2011	2.33	8.23	5.42
February 2011	4.10	7.56	6.22
March 2011	6.20	9.62	7.41

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
April 2010	0.5	-	7	-	3	-
May 2010	1.1	-	8.4	-	4.2	-
June 2010	1.4	-	10.3	-	5.5	-
July 2010	2.5	-	11.7	-	7.3	-
August 2010	1.3	-	12.3	-	6.7	-
September 2010	0.9	-	9.4	-	4.9	-
October 2010	-	-	-	-	-	-
November 2010	-	-	-	-	-	-
December 2010	0.5*	-	4.2*	-	2.1*	-
January 2011	0.3	-	4	-	1.2	-
February 2011	0.5	-	4.3	-	1.8	-
March 2011	0.5	-	6	-	2.6	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
April 2010	98.43		1002.61		586.68	
May 2010	37.09		834.59		236.84	
June 2010	32.24		558.97		179.56	
July 2010	46.98		543.6		222.92	
August 2010	41.18		807.04		258.02	
September 2010	85.44		728.23		295.36	
October 2010	-		-		-	
November 2010	-		-		-	
December 2010	61.17*		618.55*		281.13*	
January 2011	53.72		618.74		222.11	
February 2011	45.81		618.81		333.85	
March 2011	87.06		618.89		435.56	

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Location: Buoy 84

3.3 meter above bottom [-6.0 m TAW]

<i>Velocity magnitude [m/s]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	-	-	-
May 2010	-	-	-
June 2010	0.01	1.28	0.55
July 2010	0.01*	1.18*	0.51*
August 2010	0.01	1.43	0.51
September 2010	0.01	1.46	0.52
October 2010	0.01	1.42	0.52
November 2010	0.01	1.35	0.52
December 2010	0.01	1.41	0.53
January 2011	0.01	1.48	0.52
February 2011	0.01	1.66	0.56
March 2011	0.01	1.62	0.56
<i>Temperature [°C]</i>			
<i>Month</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Average</i>
April 2010	-	-	-
May 2010	-	-	-
June 2010	17.53	21.47	18.98
July 2010	21.02*	23.40*	22.45*
August 2010	19.03	22.82	21.26
September 2010	17.06	20.02	18.52
October 2010	12.36	17.95	15.44
November 2010	7.46	13.31	11.01
December 2010	2.84	7.77	4.39
January 2011	3.16	7.38	5.79
February 2011	5.01	7.84	6.67
March 2011	6.31	11.48	8.26

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
April 2010	-	-	-	-	-	-
May 2010	-	-	-	-	-	-
June 2010	8.9	-	13.3	-	11.1	-
July 2010	10.6	-	14.5	-	12.4	-
August 2010	9.3	-	15.3	-	12.4	-
September 2010	8.2	-	12.5	-	10.3	-
October 2010	7.5	-	12.7	-	10.2	-
November 2010	1.3	-	11.5	-	5.8	-
December 2010	3.0	-	7.0	-	5.0	-
January 2011	0.9	-	7.0	-	2.9	-
February 2011	2.1	-	7.0	-	4.5	-
March 2011	3.4	-	9.5	-	6.3	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
April 2010	-		-		-	
May 2010	-		-		-	
June 2010	20.09		296.96		71.1	
July 2010	21.96*		592.46*		108.64*	
August 2010	20.71		735.23		122.94	
September 2010	21.4		817.04		139.94	
October 2010	21.21		588.53		120.56	
November 2010	24.9		816.06		165.61	
December 2010	35.73		815.52		203.12	
January 2011	33.27		816.17		189.71	
February 2011	37.67		816.38		311.21	
March 2011	46.91		816.88		389.55	

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Location: Buoy 84
0.8 meter above bottom [-8.0 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
April 2010	0.02*	1.37*	0.48*
May 2010	-	-	-
June 2010	-	-	-
July 2010	0.01	1.34	0.45
August 2010	0.01	1.28	0.44
September 2010	0.01	1.17	0.44
October 2010	0.01	1.2	0.45
November 2010	0.01	1.15	0.45
December 2010	0.01	1.34	0.45
January 2011	0.01	1.45	0.47
February 2011	0.01	1.22	0.48
March 2011	0.01	1.25	0.46
Temperature [°C]			
Month	Minimum	Maximum	Average
April 2010	9.21*	12.65*	10.91*
May 2010	-	-	-
June 2010	-	-	-
July 2010	20.99	24.28	22.76
August 2010	19.00	22.97	21.24
September 2010	17.06	20.18	18.50
October 2010	12.37	17.92	15.43
November 2010	7.46	13.63	11.01
December 2010	2.84	7.78	4.40
January 2011	3.14	7.36	5.79
February 2011	5.01	8.13	6.67
March 2011	6.30	11.23	8.25

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
April 2010	7.7*	5.2*	9.5*	7.2*	8.6*	6*
May 2010	-	-	-	-	-	-
June 2010	-	-	-	-	-	-
July 2010	14.9	12.5	17.1	14	15.9	13.2
August 2010	13.2	10.7	18.1	15	15.8	13.1
September 2010	12.2	9.5	15.1	11.6	13.6	10.6
October 2010	11.9	8.7	15.1	11.9	13.5	10.4
November 2010	3.4	1.7	13.5	10	8.3	5.6
December 2010	5.9	3.6	8.5	5.6	7.4	4.7
January 2011	2.5	1.1	8.3	5.4	4.4	2.5
February 2011	4.6	2.6	8.3	5.6	6.5	4.2
March 2011	6.5	4.1	11.4	7.9	8.9	6.1
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
April 2010	68.04*		1535.40*		687.26*	
May 2010	-		-		-	
June 2010	-		-		-	
July 2010	5.34		1063.37		238.07	
August 2010	28.32		1279.53		233.77	
September 2010	26.69		1057.66		256.27	
October 2010	22.69		932.00		218.28	
November 2010	30.81		1098.30		312.17	
December 2010	38.60		1410.11		341.96	
January 2011	40.39		1266.35		350.54	
February 2011	40.39		1512.67		506.33	
March 2011	61.71		1566.08		617.12	

-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Location: Prosperpolder¹
2.5 meter above bottom [-1.5 m TAW]

Temperature [°C]						
Month	Minimum		Maximum		Average	
April 2010	8.88		14.74		11.51	
May 2010	11.88		16.82		13.9	
June 2010	15.31		21.9		18.34	
July 2010	20.83		24.32		22.69	
August 2010	18.78		23.26		21.16	
September 2010	16.82		21.54		18.46	
October 2010	12.1		18.59		15.38	
November 2010	7.2		14.11		11.05	
December 2010	2.59		8.28		4.36	
January 2011	2.92		7.55		5.26	
February 2011	4.59		9.11		6.57	
March 2011	6.01		12.04		8.16	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
April 2010	7.8	5.4	12	8.4	9.4	6.7
May 2010	9.2	7.5	11.6	8.4	10.1	8
June 2010	12.9	10.1	15.2	12.4	14.1	11
July 2010	13.7	11.5	17.1	14.2	15	12.5
August 2010	13.5	10.7	17.6	14.2	15.3	12.6
September 2010	12.6	9.8	15	11.6	13.8	10.7
October 2010	11.8	9.4	15.2	12.6	13.8	10.7
November 2010	4.1	1.9	13.7	10.2	8.7	6.1
December 2010	5.7	3.8	9.2	6.2	7.7	5.1
January 2011	3.1	1.5	9.5	6	5.5	3.3
February 2011	5.4	2.9	8.8	6	7.2	4.6
March 2011	6.9	4.5	11.4	8.4	9.6	6.5

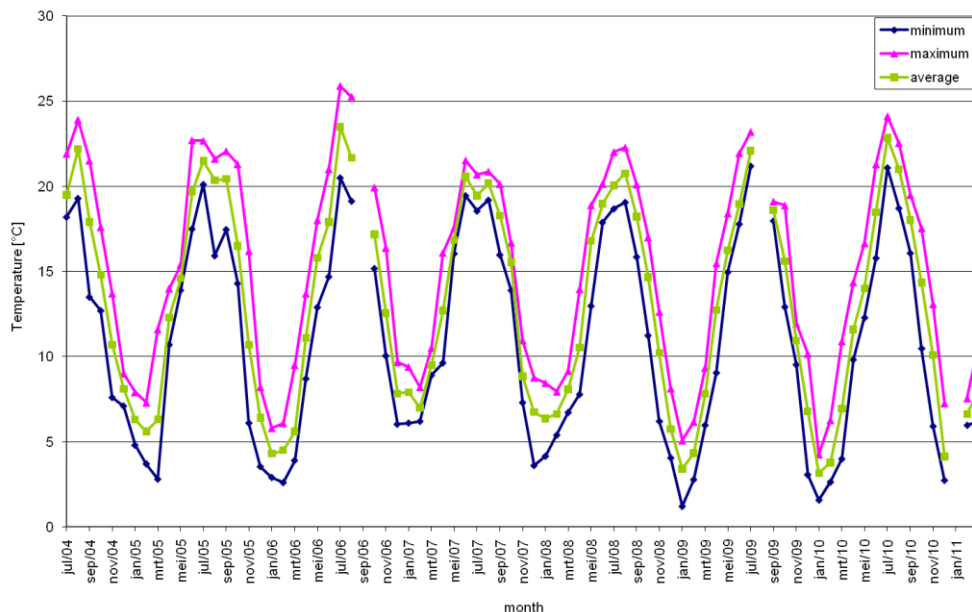
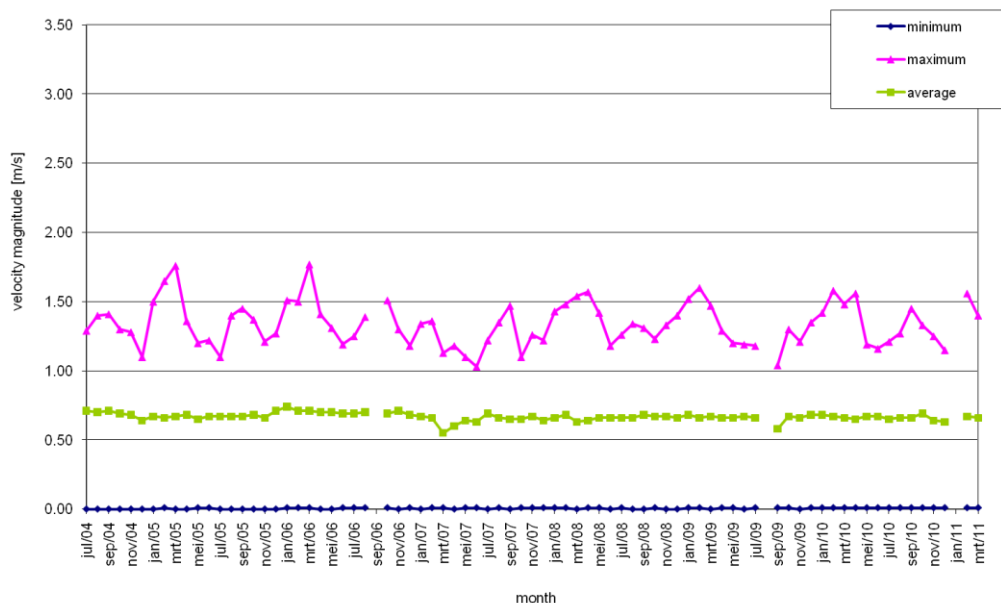
-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

¹ Current velocity and suspended sediment were not measured at Prosperpolder.

A.3 Graphs monthly results for the whole deployment period

Velocity magnitude & temperature



**Oosterweel left bank
4.5m above bottom (-2.0m TAW)**

Data processed by:

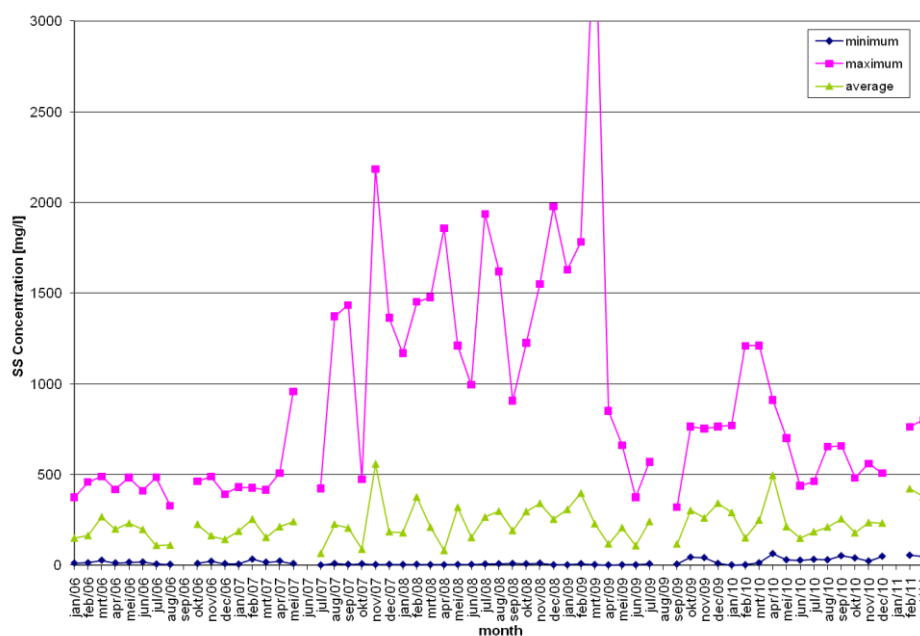
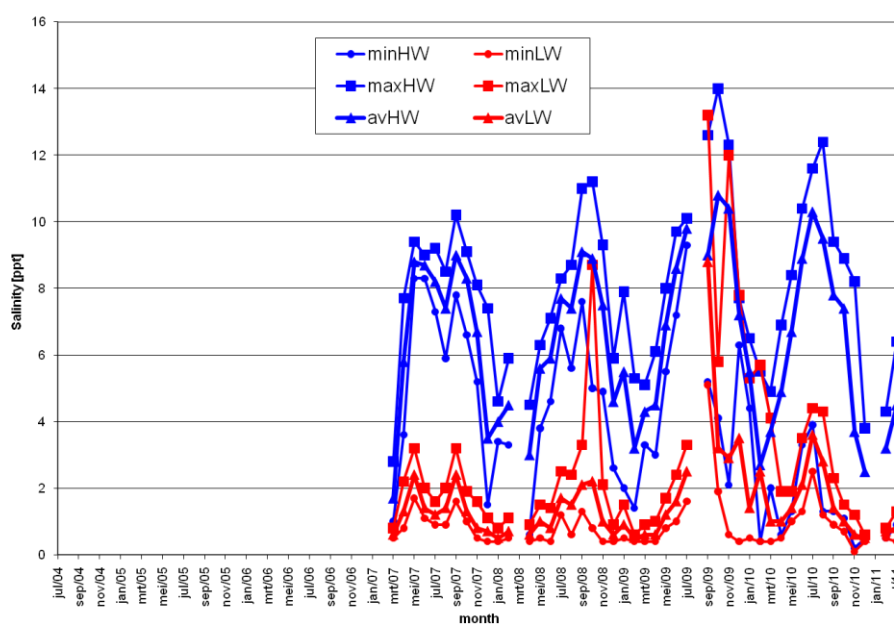


In association with:



I/RA/11354/10.103/MBO/ANF

Salinity & SS Concentration



**Oosterweel left bank
4.5m above bottom (-2.0m TAW)**

Data processed by:

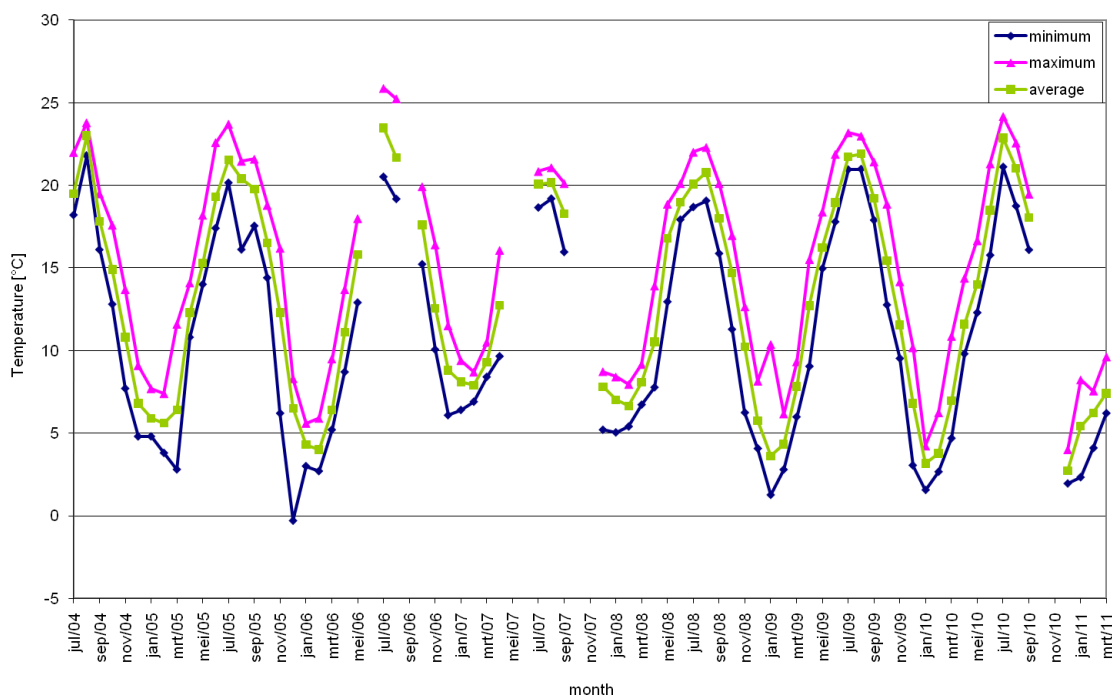
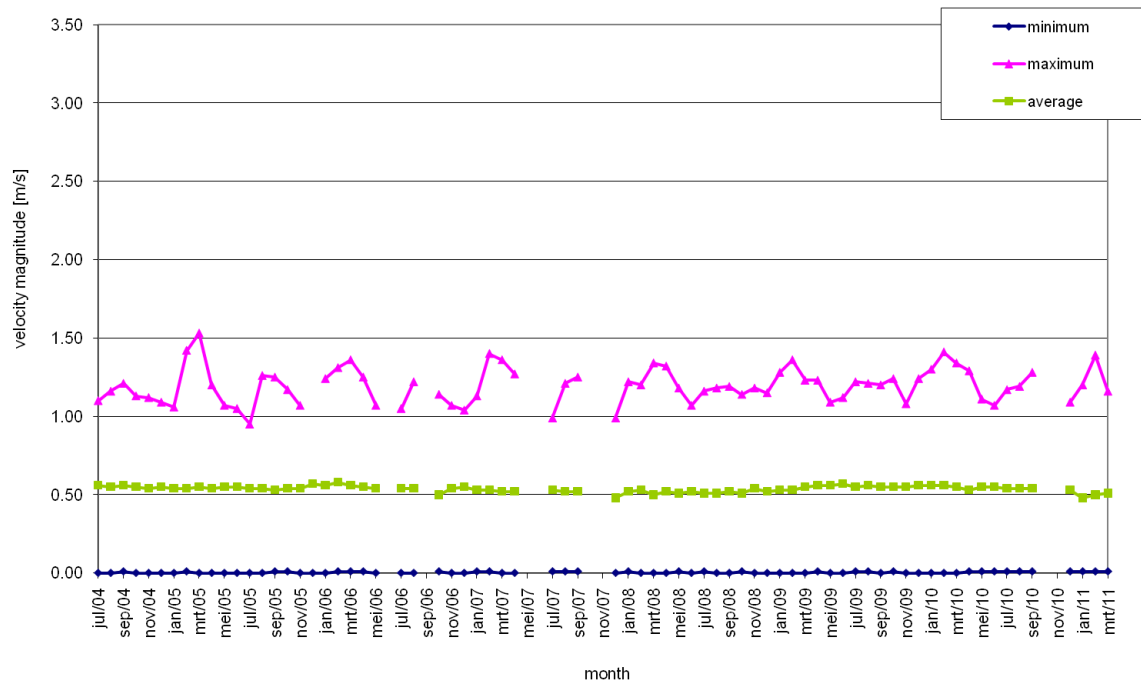


In association with:



I/RA/11354/10.103/MBO/ANF

Velocity magnitude & temperature



**Oosterweel left bank
1m above bottom (-5.5m TAW)**

Data processed by:

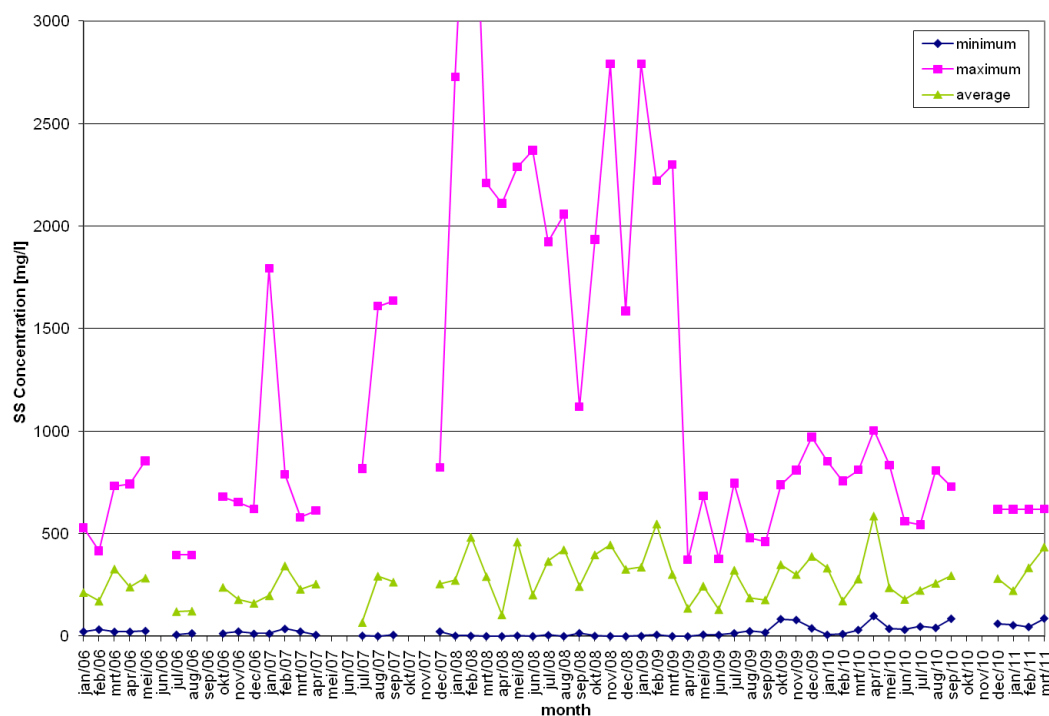
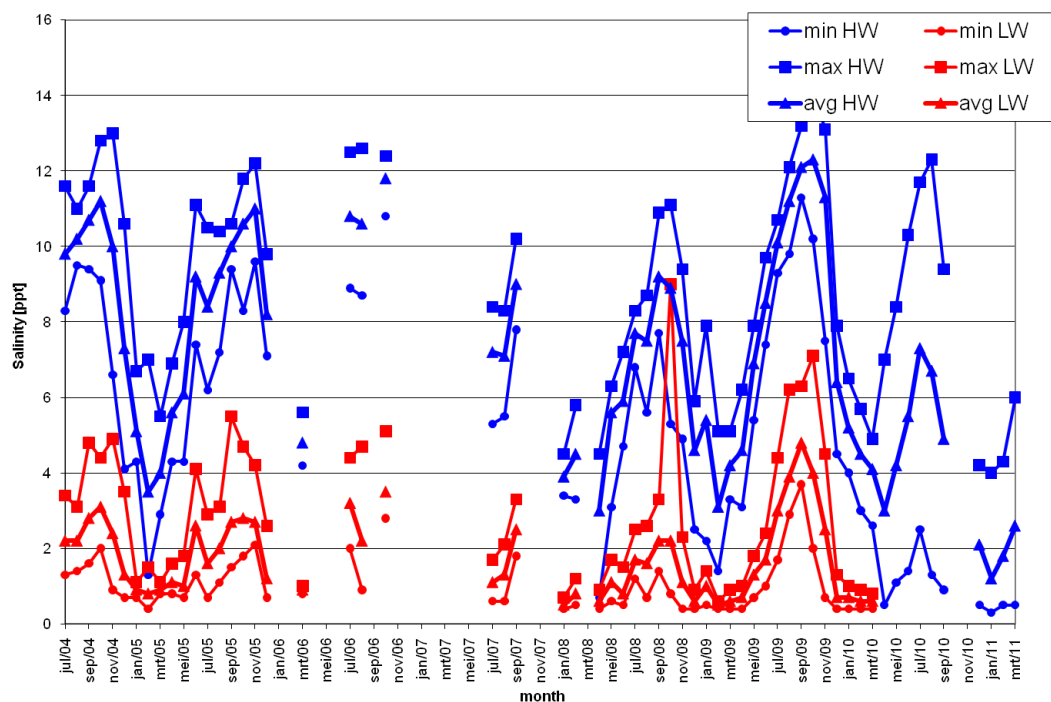


In association with:



I/RA/11354/10.103/MBO/ANF

Salinity & SS Concentration



**Oosterweel left bank
1m above bottom (-5.5m TAW)**

Data processed by:

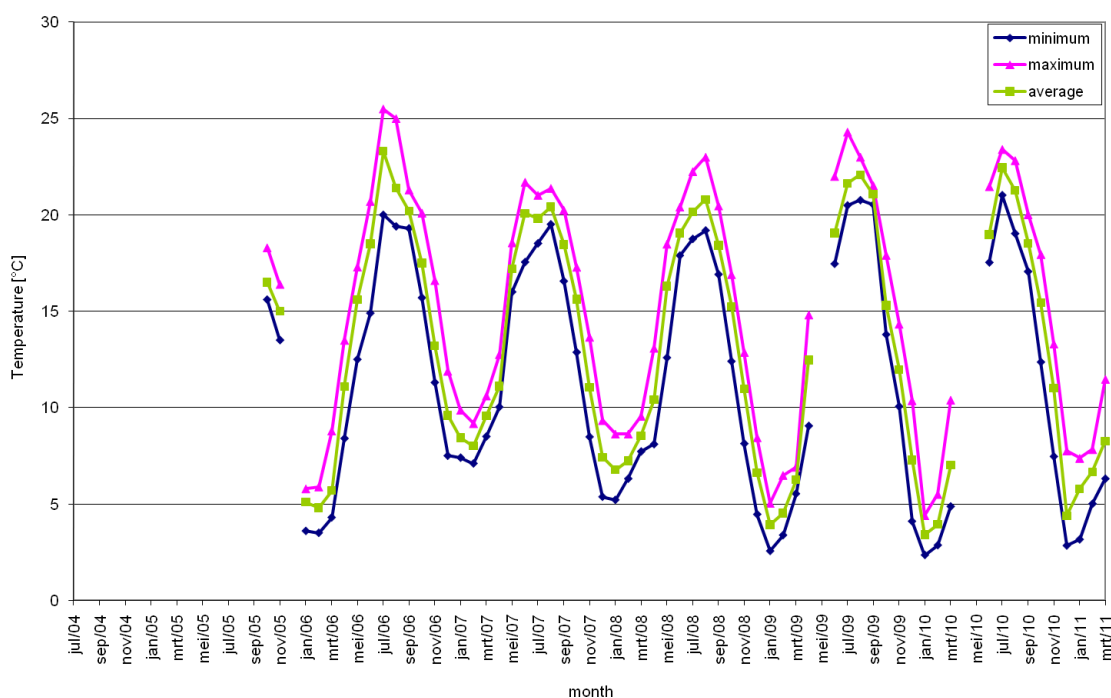
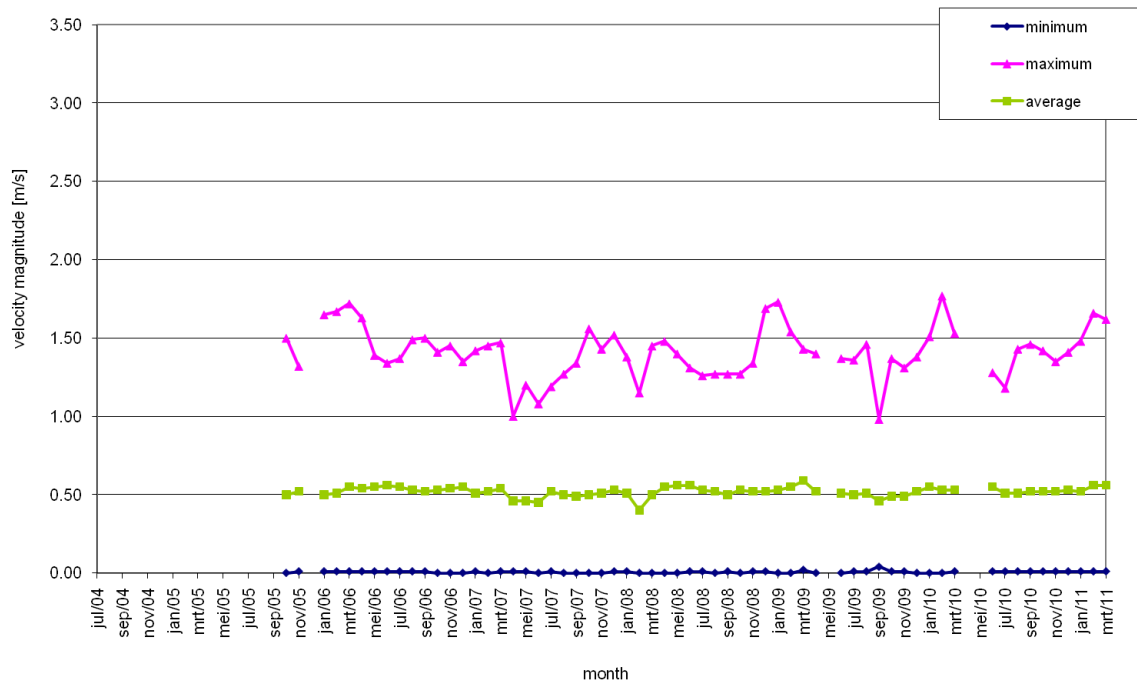


In association with:



I/RA/11354/10.103/MBO/ANF

Velocity magnitude & temperature



Buoy 84
3.3 m above bottom (-4.8 m TAW)

Data processed by:

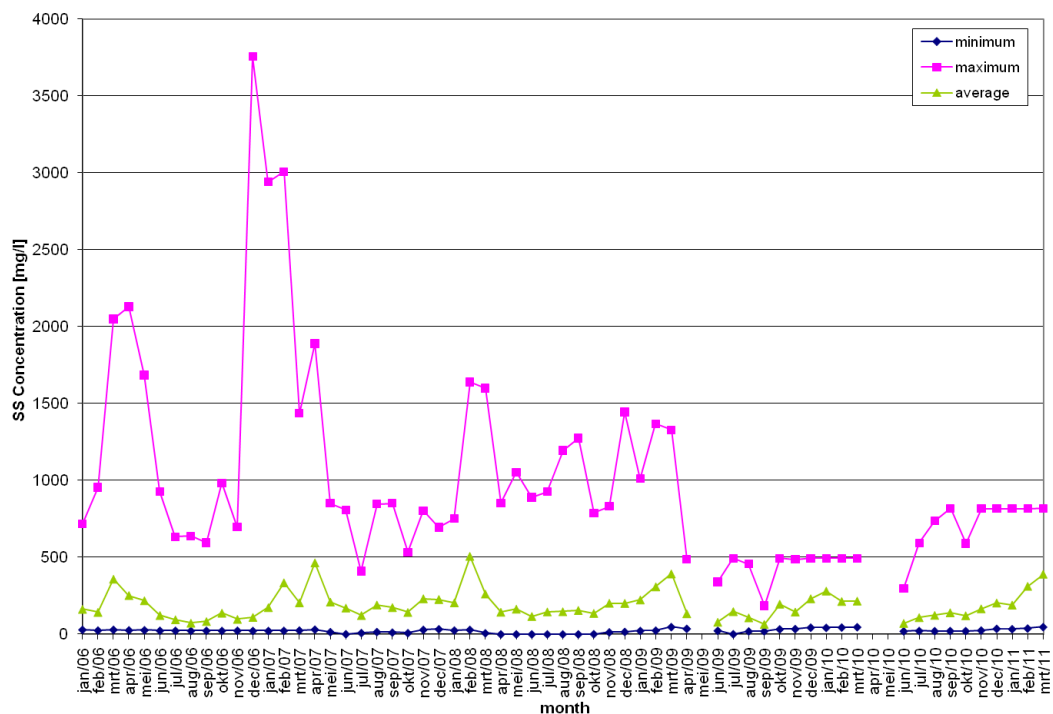
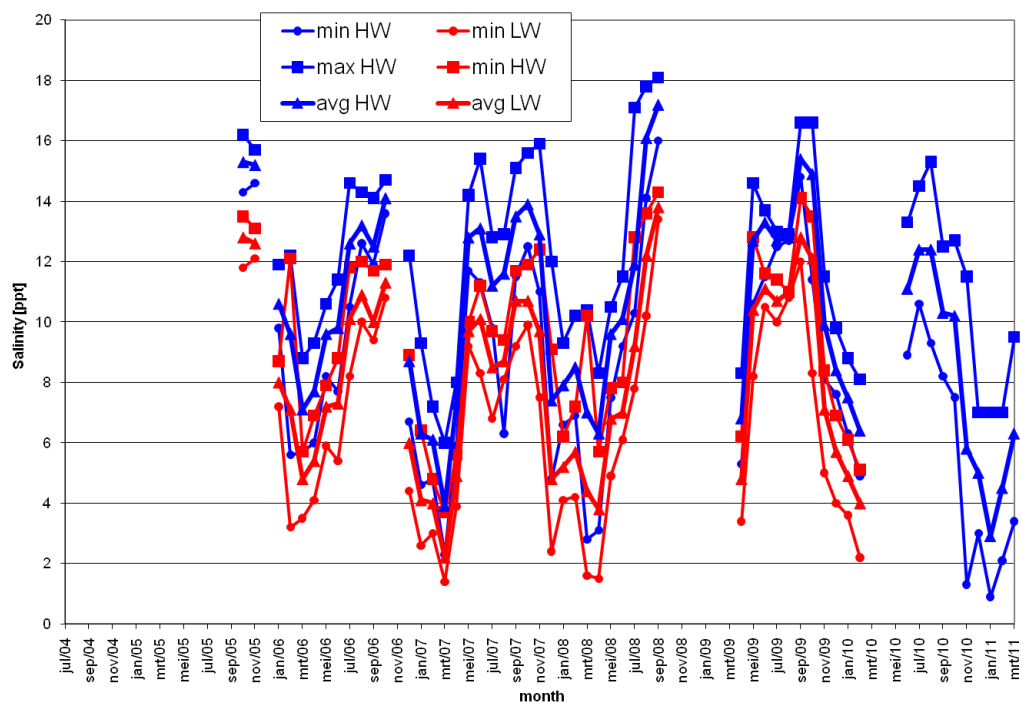


In association with:



I/RA/11354/10.103/MBO/ANF

Salinity & SS Concentration



Buoy 84
3.3m above bottom (-4.8m TAW)

Data processed by:

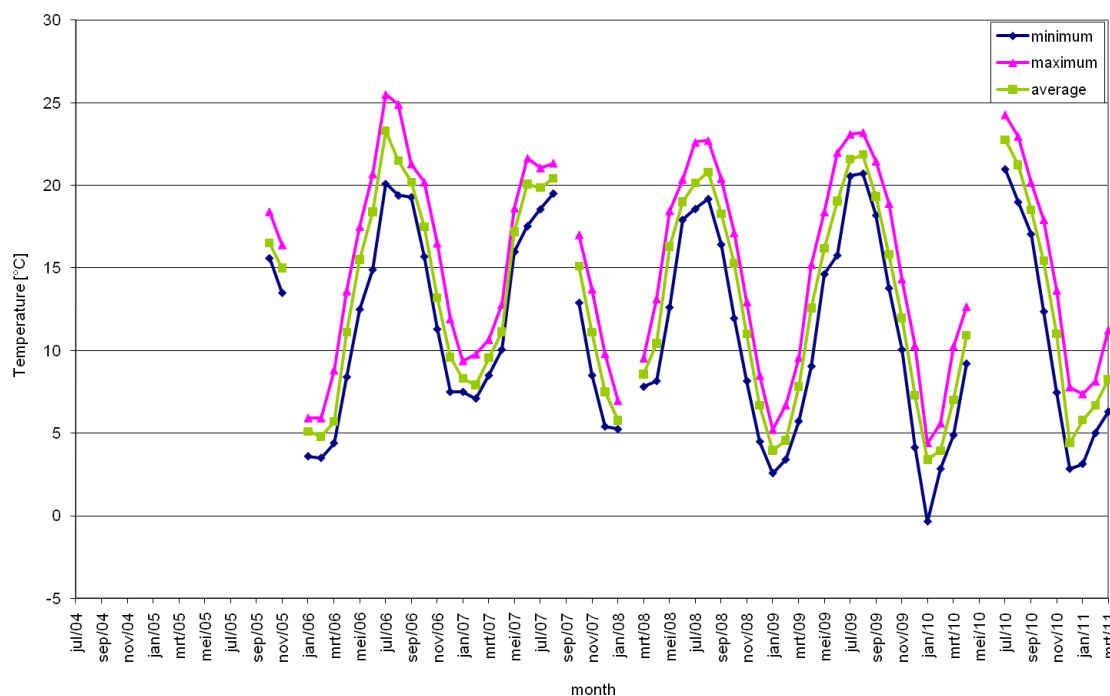
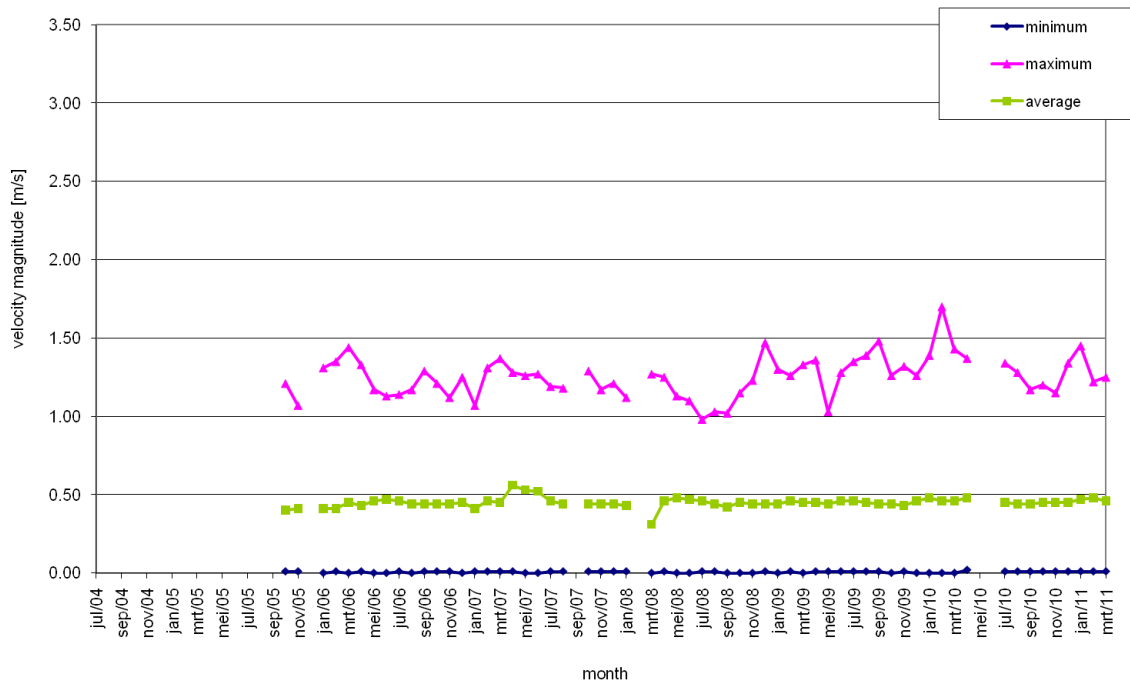


In association with:



I/RA/11354/10.103/MBO/ANF

Velocity magnitude & temperature



Buoy 84
0.8m above bottom (-8m TAW)

Data processed by:

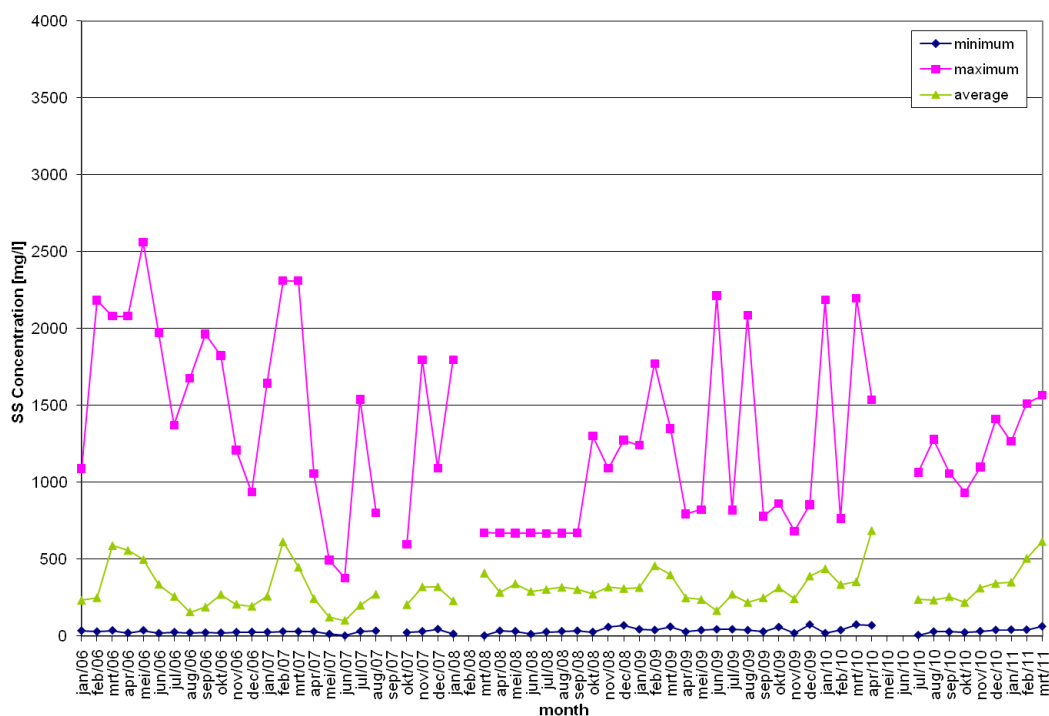
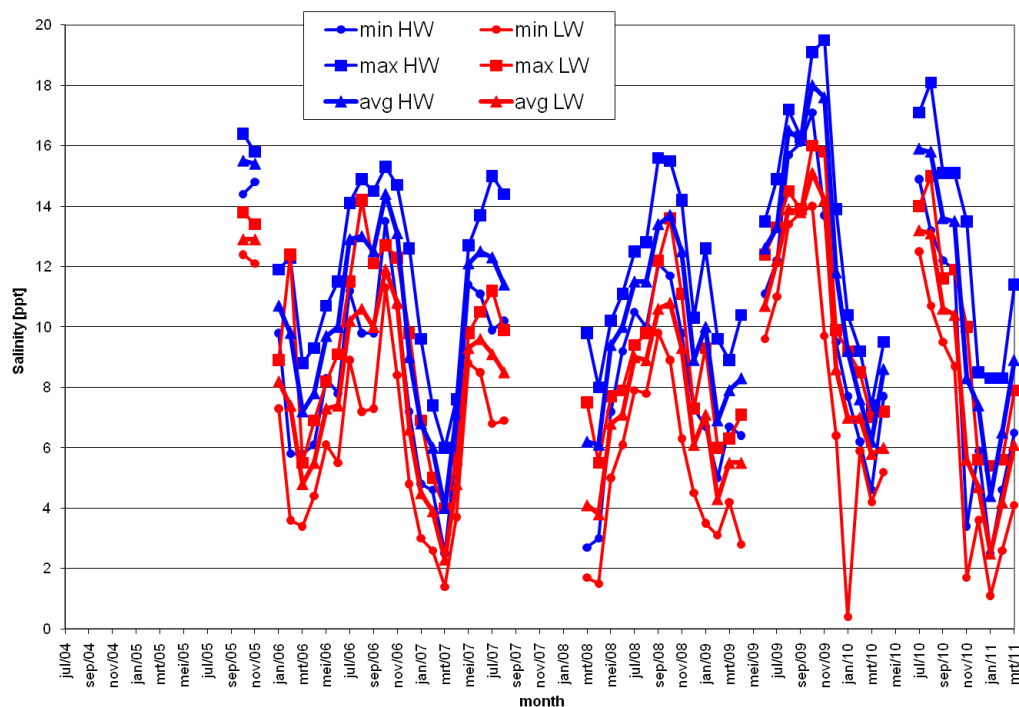


In association with:



I/RA/11354/10.103/MBO/ANF

Salinity & SS Concentration



Buoy 84
0.8m above bottom (-8m TAW)

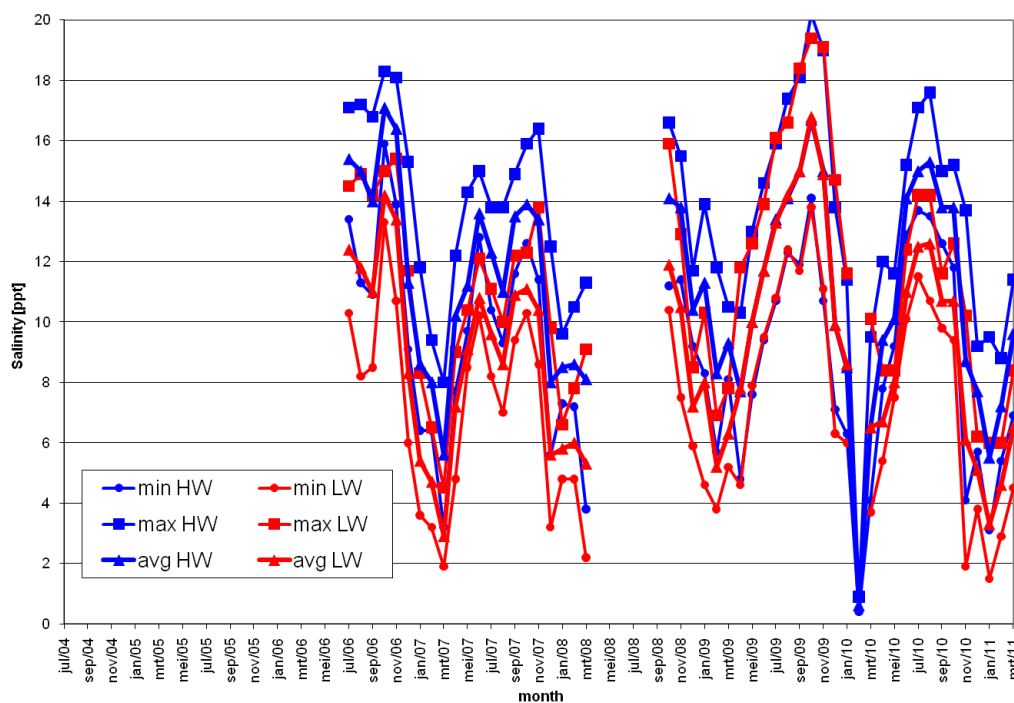
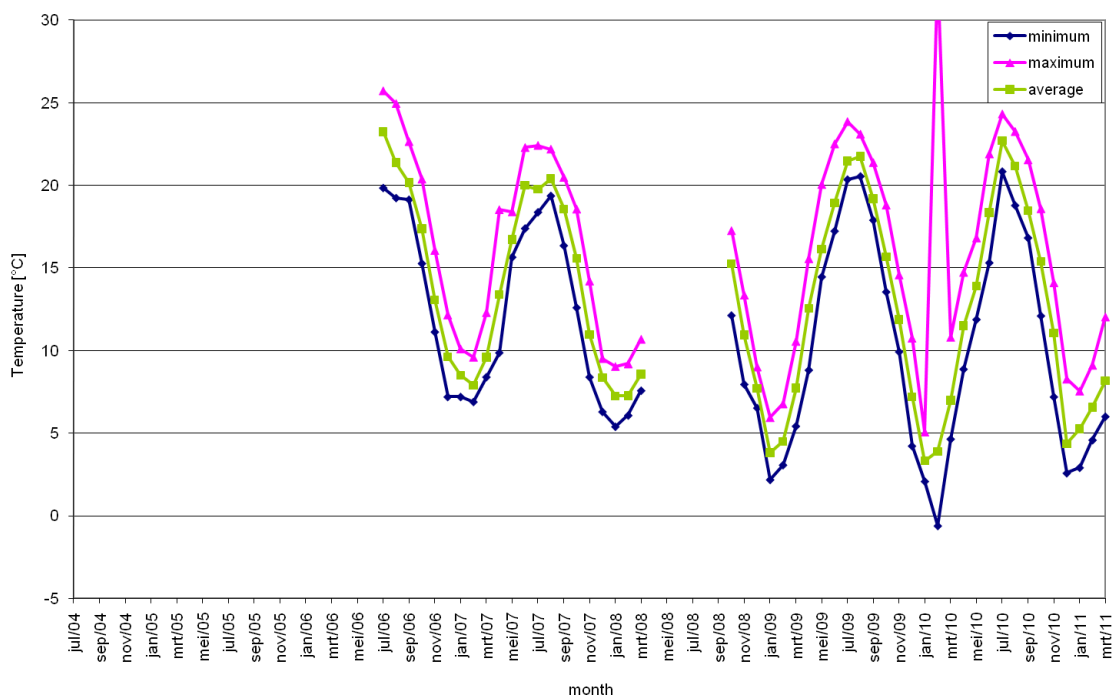
Data processed by:

In association with:



I/RA/11354/10.103/MBO/ANF

Temperature & Salinity



**Propserpolder
2.5m above bottom (-1.5m TAW)**

Data processed by:



In association with:



I/RA/11354/10.103/MBO/ANF

A.4 Total result from October 2008 till March 2009 of velocity magnitude, temperature, salinity and suspended sediment concentration

Averages for the whole deployment period of each instrument [April 2010 – March 2011]

Location	Depth [m TAW]	Velocity [m/s]			Temperature [°C]			SS concentration [mg/l]		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
Oosterweel left bank	-2.0	0.01	1.56	0.66	2.73	24.11	14.46	22.55	910.35	262.85
Oosterweel left bank	-5.5	0.01	1.39	0.53	1.95* (2.33)	24.18	13.52	32.24	1002.61	303.35
Buoy84 top	-6.0	0.01	1.66	0.53	2.84	23.40* (22.82)	12.86	20.09	817.04	188.57
Buoy84 bottom	-8.0	0.01	1.45	0.46	2.84	24.28	12.93	5.34	1566.08	360.55
Prosperpolder	-1.5	-	-	-	2.59	24.32	13.11	-	-	-
Salinity [ppt]										
Location	Depth [m TAW]	Minimum		Maximum		Average				
		Slack HW	Slack LW	Slack HW	Slack LW	Slack HW	Slack LW			
Oosterweel left bank	-2.0	0.2	0.1	12.4	4.4	6.6	1.6			
Oosterweel left bank	-5.5	0.3	-	12.3	-	4.1	-			
Buoy84 top	-6.0	0.9	-	15.3	-	7.9	-			
Buoy84 bottom	-8.0	2.5	1.1	18.1	15.0	10.6	7.9			
Prosperpolder	-1.5	3.1	1.5	17.6	14.2	10.9	8.1			

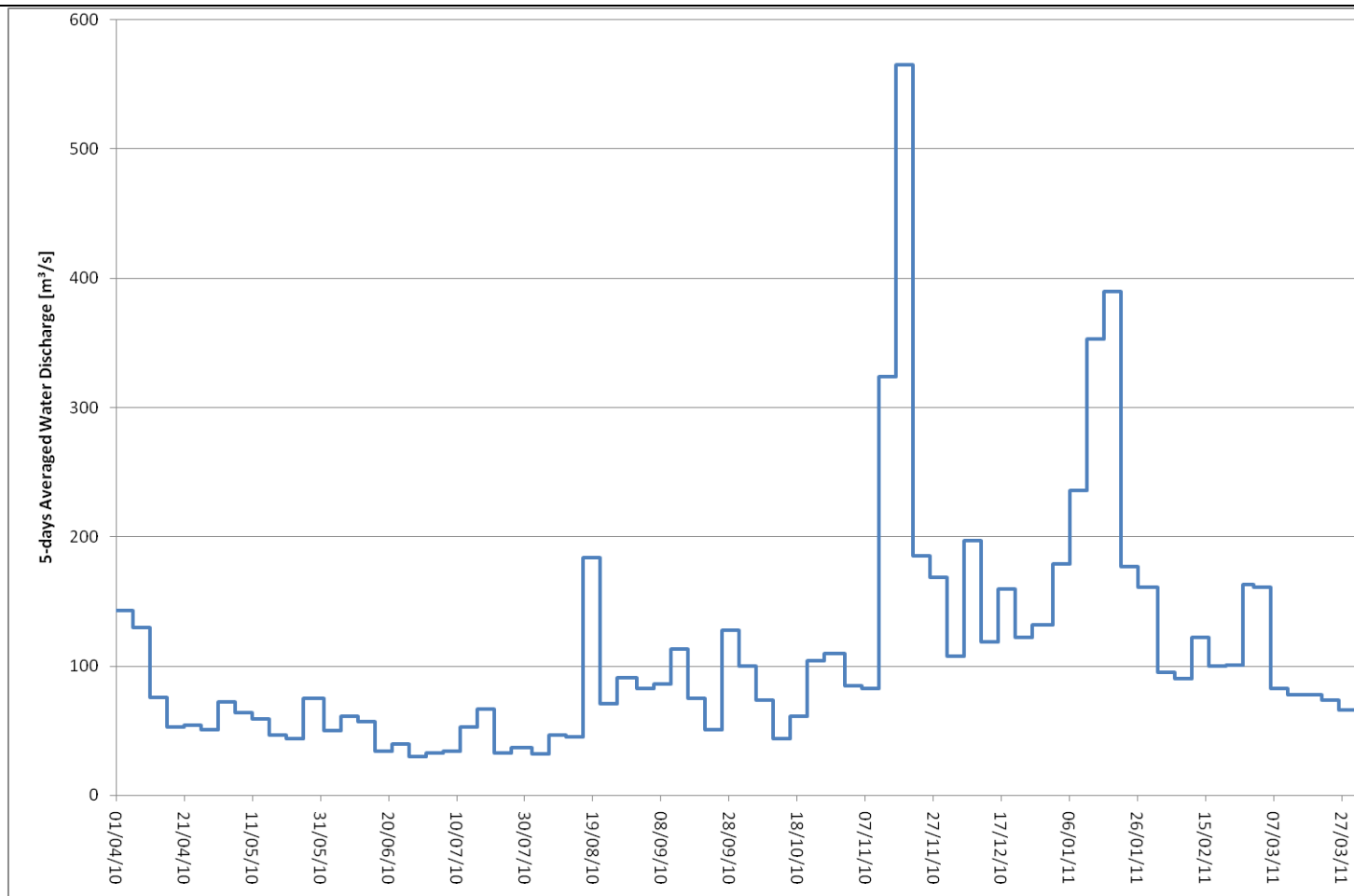
-: No data or less than 30% of the monthly data available.

*: Less than 70% of the monthly data available.

Annex B

Fresh water discharge

11354 Evaluatie aanslibbing Deurganckdok – Boundary conditions April '10- March '11



5-days averaged water discharge

Data reported by:



In association with:



I/RA/11354/10.103/MBO/ANF

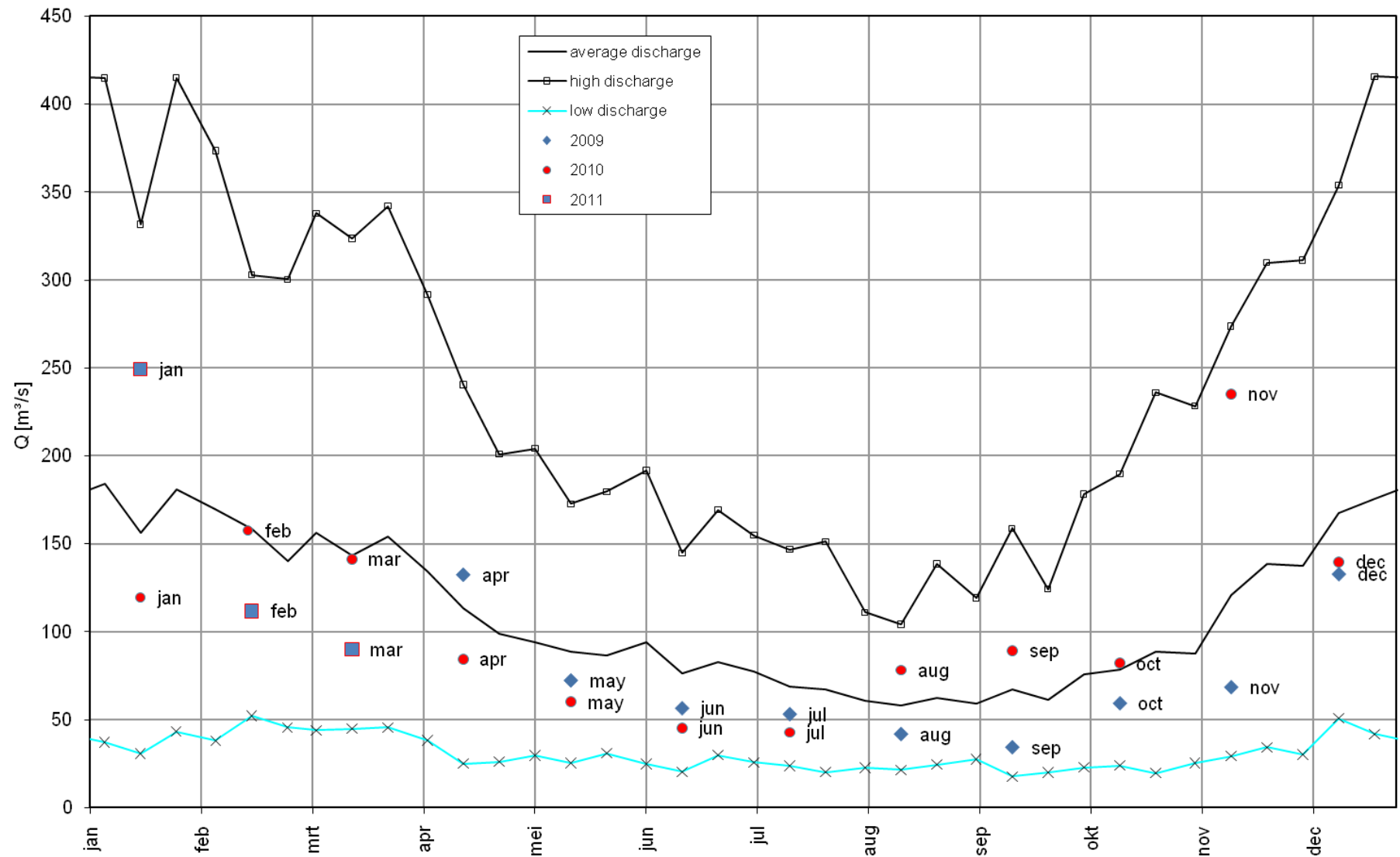
Location:
Schelle

Date:
01/04/2010 – 27/03/2011

Decade averages of the fresh water discharge [m³/s] of the Scheldt at Schelle (April 2010 – March 2011)

	<i>First Decade</i>	<i>Second Decade</i>	<i>Third Decade</i>
April 2010	137	65	53
May 2010	68	53	60
June 2010	56	46	35
July 2010	34	60	35
August 2010	40	115	81
September 2010	85	94	90
October 2010	87	53	107
November 2010	84	445	177
December 2010	153	140	127
January 2011	208	372	169
February 2011	93	111	132
March 2011	122	78	70

Average monthly discharge during project period compared to the long-term discharge curve (based on a long-term simulation over a period of 30 year; 1971-2000)



Annex C

Monthly results

meteorological measurements at Deurne

Terminology

Nederlands:

Druk:
Bewolking:
Zon duur:
Temperaturen:
Lucht:
Gras:
Minimum onder naakte grond:
Bewolking: 9 = bovenlucht niet zichtbaar
Ontbrekend gegeven:
Gem.:
Min. :
Max.:
Rel. vocht.:
Mist:
Duur in minuten:
Neerslag:
Dag met:
Wind:
Snelheid (km/h) en richting:
* = Sneeuw:
▲ = Hagel:
:reewnO = 7
Neerslag te wijten aan mist of dauw:

English:

Pressure
Cloudiness
Duration of Sunshine
Temperatures
Air
Grass
Minimum under bare soil
Cloudiness 9 = upper atmosphere invisible
Missing data
Average
Minimum
Maximum
Relative Humidity
Fog
Duration in minutes
Precipitation
Day with
Wind
Velocity (km/h) and direction
* = Snow
▲ = Hail
mrotsrednuht = 7
Precipitation due to fog or dew

DEURNE(RLW) 4° 27' 11" E 51° 11' 32" I 14m Periode 00-24 h W.T. april 2010

	Druk hpa	Bewolking Octas					Zon		Temperaturen °C							
		Duur					Gras		Minimum onder naakte grond							
		Gem.	0h	6	12	18	Gem.	Max.	Min.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm	
1	1009.1	8	6	5	3		6.0	10.1	3.1	2.7	7.4	7.6	7.4	7.7	8.2	7.9
2	1009.9	0	7	6	8		7.6	13.3	1.6	0.5	6.6	6.9	6.8	7.1	7.9	7.8
3	1005.8	4	3	7	8		8.1	12.1	5.9	5.6	7.5	7.6	7.5	7.7	7.9	7.8
4	1009.7	4	7	7	7		8.2	10.7	5.5	4.5	7.8	7.9	7.8	8.0	7.9	7.8
5	1025.3	0	4	7	5		8.1	12.0	3.5	3.0	7.2	7.4	7.4	7.6	7.9	7.8
6	1020.9	8	3	0	4		11.1	17.4	5.9	5.1	7.7	7.8	7.8	8.0	8.0	7.8
7	1017.3	0	4	5	8		12.3	19.1	4.3	3.6	7.7	8.0	7.9	8.1	8.3	7.8
8	1027.6	8	7	7	1		9.6	13.6	6.0	4.5	8.8	9.0	9.0	9.1	8.4	7.9
9	1033.3	0	5	3	3		9.7	16.1	1.4	3.0	7.7	8.0	7.9	8.2	8.6	8.0
10	1032.0	0	7	7	1		8.7	13.6	4.8	4.0	8.8	8.9	8.9	9.0	8.7	8.1
11	1027.1	0	0	7	7		6.8	10.8	2.5	2.4	8.3	8.5	8.4	8.6	8.9	8.2
12	1022.7	0	4	1	5		9.0	15.0	3.2	2.8	7.9	8.1	8.0	8.2	8.7	8.4
13	1019.7	7	2	3	5		10.4	16.8	5.7	4.9	8.5	8.6	8.6	8.7	8.8	8.4
14	1018.6	0	2	3	4		9.6	15.2	4.1	3.8	8.6	8.8	8.8	8.9	9.0	8.4
15	1020.3	0	0	0	0		10.3	16.3	5.1	4.2	8.9	9.1	9.0	9.2	9.2	8.5
16	1025.1	1	5	8	8		7.9	12.0	4.0	3.8	9.0	9.3	9.2	9.3	9.3	8.6
17	1022.1	0	1	0	0		9.5	16.3	0.7	2.1	8.1	8.4	8.3	8.6	9.2	8.7
18	1014.9	0	1	0	0		11.4	18.9	3.5	3.6	8.6	9.0	8.9	9.1	9.4	8.8
19	1017.2	0	7	4	5		9.5	14.5	5.1	5.1	9.6	9.7	9.7	9.8	9.6	8.9
20	1017.0	0	1	2	4		8.2	13.0	2.2	3.0	9.2	9.5	9.4	9.7	9.8	9.0
21	1019.9	7	7	4	1		7.6	12.1	3.1	3.1	9.2	9.5	9.4	9.6	9.8	9.1
22	1018.9	0	4	5	1		6.6	12.5	-1.1	1.2	8.3	8.7	8.5	8.9	9.7	9.2
23	1016.9	0	5	3	1		9.7	16.3	2.6	2.4	8.7	9.1	9.0	9.2	9.8	9.3
24	1019.6	0	2	4	3		13.0	21.0	2.5	3.4	9.1	9.4	9.3	9.6	10.0	9.3
25	1020.9	0	2	6	6		14.7	23.6	5.1	4.6	9.8	10.1	10.0	10.2	10.2	9.4
26	1025.4	0	4	6	3		12.6	16.1	7.2	7.7	11.2	11.2	11.2	11.2	10.5	9.5
27	1028.0	0	1	4	4		13.3	20.0	4.1	5.7	10.4	10.7	10.6	10.8	10.8	9.7
28	1022.8	0	5	7	7		16.4	24.1	5.9	6.5	10.9	11.2	11.1	11.3	11.0	9.9
29	1011.3	0	7	7	8		18.5	26.2	11.0	10.3	12.2	12.3	12.3	12.4	11.3	10.0
30	1010.4	0	6	5	5		12.4	15.2	10.0	8.7	12.6	12.7	12.7	12.8	11.9	10.2
M	1019.7						10.2	15.8	4.3							

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. april 2010

	Rel. Vocht.		Mist			Neerslag					Wind								
	%	Gem.	Duur in minuten			l/m²	Duur		* (cm)	Dag met			Snelheid (km/h) en richting						
			<1000m	<500m	<200m		h min	%		+	^	R	Gem.	Max.	0h	6h	12h	18h	
1	63	36	-	-	-	<0,1	0 06	0	/	/	-	-	-	22	50 WSW	SW	SW	WSW	WSW
2	65	42	-	-	-	1.4	2 18	10	/	/	-	-	-	18	50 S	S	SSE	S	S
3	82	59	-	-	-	10.0	9 09	38	/	/	-	X	X	14	47 SSW	S	S	SSW	S
4	78	67	-	-	-	0.9	1 17	5	/	/	-	-	-	18	50 WNW	SE	S	WNW	W
5	70	51	-	-	-	<0,1	0 16	1	/	/	-	-	-	14	36 WSW	WSW	SW	SW	S
6	58	36	-	-	-	-	-	-	/	/	-	-	-	11	36 SE	S	SSE	SSE	ESE
7	65	34	-	-	-	0.4	4 48	20	/	/	-	-	-	7	32 W	ESE	E	SSE	W
8	77	45	-	-	-	2.3	5 56	25	/	/	-	-	-	14	32 NNW	NNW	NNW	NNW	N
9	70	46	-	-	-	-	-	-	/	/	-	-	-	11	32 NW	NNW	SSE	NW	N
10	72	47	-	-	-	-	-	-	/	/	-	-	-	11	32 NE	N	NNE	NE	NE
11	73	55	-	-	-	<0,1	0 28	2	/	/	-	-	-	14	40 NE	NE	NNE	NE	ENE
12	67	38	-	-	-	<0,1	0 08	1	/	/	-	-	-	18	50 NNE	NE	NNE	NNE	NE
13	63	37	-	-	-	-	-	-	/	/	-	-	-	18	43 NNE	NNE	NNE	NNE	NNE
14	67	39	-	-	-	-	-	-	/	/	-	-	-	11	32 NE	N	NNE	NE	NE
15	59	33	-	-	-	-	-	-	/	/	-	-	-	14	36 NNE	NNE	NNE	NE	NNE
16	69	48	-	-	-	-	-	-	/	/	-	-	-	11	29 NE	NNE	N	NNE	NNE
17	61	29	-	-	-	-	-	-	/	/	-	-	-	7	18 NE	NE	E	ESE	E
18	58	31	-	-	-	-	-	-	/	/	-	-	-	7	32 NW	N	SSE	W	NNW
19	67	45	-	-	-	-	-	-	/	/	-	-	-	7	25 ENE	N	NNE	N	ENE
20	65	35	-	-	-	-	-	-	/	/	-	-	-	14	43 W	E	W	NW	NNW
21	59	37	-	-	-	-	-	-	/	/	-	-	-	11	43 NW	SW	NNE	NW	N
22	62	39	-	-	-	-	-	-	/	/	-	-	-	7	25 NE	NNE	SE	VAR	NE
23	54	29	-	-	-	-	-	-	/	/	-	-	-	7	25 ENE	NE	ENE	VAR	NE
24	47	21	-	-	-	-	-	-	/	/	-	-	-	7	25 E	NE	ESE	E	E
25	54	22	-	-	-	<0,1	0 12	1	/	/	-	-	-	11	47 W	E	ESE	WSW	NNW
26	73	55	-	-	-	0.2	-	-	/	/	-	-	-	14	32 W	WSW	WSW	W	NNW
27	65	37	100	33	1	-	-	-	/	/	-	-	-	7	18 NNW	-	SW	VAR	N
28	54	26	-	-	-	-	-	-	/	/	-	-	-	7	29 S	SE	ESE	SSW	SW
29	55	29	-	-	-	2.5	1 38	7	/	/	-	-	-	11	68 WSW	S	ESE	SSW	S
30	74	48	-	-	-	0.1	1 10	5	/	/	-	-	-	18	43 WSW	W	SW	NNW	WSW
M	65		100	33	1	18.0	27 26				0	1	1	12					

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)		4° 27' 11" E		51° 11' 32" O		14m		Periode 00-24 h W.T.		mei 2010					
Druk hPa	Bewolking Octas	Zon		Temperaturen °C											
		Duur	Gras	Minimum onder naakte grond		-50cm	-100cm								
Gem.	0h	6	12	18	Min.			Max.	Min.	-2cm	-5cm	-10cm	-20cm		
1	1010.9	4	4	5	6	/	11.2	15.5	8.2	7.3	11.8	11.9	12.1	12.0	10.5
2	1009.1	8	8	8	6	/	10.2	14.3	6.3	7.1	11.9	12.0	12.1	11.9	10.7
3	1015.3	8	8	8	8	/	6.6	8.0	5.5	6.5	10.7	10.8	11.0	11.6	10.8
4	1022.8	8	5	6	2	/	8.1	11.8	5.2	4.6	10.1	10.3	10.5	11.2	10.8
5	1018.6	0	4	7	4	/	8.2	13.1	2.6	3.2	9.3	9.7	9.9	10.7	10.7
6	1008.6	0	5	6	7	/	9.4	14.2	4.4	4.3	9.7	10.0	10.1	10.8	10.6
7	1008.5	7	7	7	7	/	8.0	10.2	6.6	5.7	10.4	10.5	10.6	10.8	10.6
8	1010.0	1	8	8	7	/	9.1	11.8	6.9	7.1	10.3	10.4	10.5	10.7	10.6
9	1010.3	8	8	8	5	/	10.5	13.6	8.2	8.3	10.6	10.6	10.7	10.7	10.5
10	1010.8	8	7	4	3	/	8.7	12.0	5.2	4.9	10.6	10.7	10.8	10.9	10.5
11	1010.2	8	7	7	8	/	6.0	9.5	4.5	4.1	9.7	9.9	10.1	10.8	10.5
12	1011.8	8	8	8	8	/	6.7	8.8	4.6	4.6	9.5	9.6	9.8	10.4	10.5
13	1014.2	8	8	8	7	/	7.7	10.4	4.2	4.7	9.5	9.6	9.7	10.2	10.4
14	1013.5	8	4	7	6	/	8.6	12.7	4.2	4.0	9.2	9.4	9.5	10.2	10.3
15	1014.5	0	3	6	3	/	10.3	15.5	2.5	2.3	8.8	9.1	9.0	10.1	10.3
16	1016.6	8	7	7	5	/	12.4	16.7	8.1	7.2	10.2	10.3	10.3	10.3	10.2
17	1022.7	8	7	7	1	/	11.9	15.5	8.2	7.3	11.2	11.2	11.2	10.6	10.3
18	1029.0	8	0	5	0	/	11.0	16.4	2.9	4.2	10.3	10.6	10.5	10.7	10.9
19	1029.9	0	6	1	1	/	12.4	17.7	7.1	6.8	10.9	11.1	11.2	11.1	10.4
20	1031.2	0	1	2	1	/	14.9	21.4	4.3	4.6	10.8	11.1	11.3	11.4	10.6
21	1030.3	0	2	4	2	/	16.1	21.6	10.7	10.4	12.4	12.5	12.6	11.7	10.7
22	1027.8	0	5	5	5	/	15.5	22.2	9.1	9.0	13.0	13.1	13.2	12.2	10.9
23	1023.4	0	1	1	0	/	18.5	25.9	10.3	10.2	13.4	13.6	13.6	12.7	11.1
24	1014.5	0	1	2	0	/	19.4	25.3	11.1	11.6	14.5	14.6	14.6	13.2	11.4
25	1012.4	0	7	7	6	/	16.3	21.4	12.1	12.0	15.3	15.3	15.3	13.8	11.7
26	1009.4	2	7	8	7	/	9.9	12.1	7.8	8.1	13.9	14.2	14.3	14.2	12.0
27	1010.1	7	7	6	7	/	12.0	16.6	7.3	8.3	13.3	13.6	13.5	13.7	12.4
28	1014.9	4	1	5	1	/	13.1	17.3	7.4	7.7	13.5	13.7	13.8	13.8	12.5
29	1015.1	0	4	7	8	/	14.5	21.1	6.4	6.6	13.3	13.5	13.7	13.7	12.6
30	1008.7	8	8	8	1	/	13.2	16.6	11.0	10.0	14.1	14.2	14.3	13.9	12.7
31	1015.4	4	8	8	8	/	12.5	14.6	10.5	9.8	13.5	13.7	13.8	13.7	12.7
M	1016.1					/	11.4	15.6	6.9						

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

10

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. mei 2010

	Rel. Vocht.		Mist			Neerslag				Dag met		Wind					
	%	Min.	Duur in minuten			l/m ²	Duur		* (cm)	^		Snelheid (km/h)		en richting			
			<1000m	<500m	<200m		h min	%		*	R	Gem.	Max.	0h	6h	12h	18h
1	75	59	-	-	-	0.5	0 34	2	/	-	-	11	36	SW	SW	W	NW
2	86	67	-	-	-	11.6	11 29	48	/	-	X	11	32	E	ESE	ESE	N
3	86	78	-	-	-	2.8	10 29	44	/	-	-	18	47	N	N	NNW	N
4	64	47	-	-	-	-	-	-	/	-	-	18	43	N	N	NNE	NNE
5	70	50	-	-	-	-	-	-	/	-	-	14	36	N	NE	NE	NNE
6	68	50	-	-	-	-	-	-	/	-	-	18	36	NNE	NNE	NNE	NNE
7	76	63	-	-	-	0.1	4 09	17	/	-	-	11	25	N	N	N	N
8	81	67	-	-	-	0.1	1 09	5	/	-	-	7	22	W	SSW	W	N
9	77	65	-	-	-	-	-	-	/	-	-	7	29	-	NNE	N	NNE
10	64	42	-	-	-	-	-	-	/	-	-	11	25	NNE	NE	N	NNE
11	81	54	-	-	-	13.2	12 02	50	/	-	-	14	36	NNE	NE	E	NNE
12	83	74	-	-	-	0.6	4 25	18	/	-	-	14	36	NNW	NNW	NNW	N
13	82	65	-	-	-	0.1	2 03	9	/	-	-	7	22	N	NNE	NNW	NE
14	70	44	7	6	2	-	-	-	/	-	-	4	22	-	N	SW	ENE
15	62	39	-	-	-	-	-	-	/	-	-	11	43	-	-	NW	NW
16	68	47	-	-	-	0.1	0 37	3	/	-	-	14	36	W	SW	NW	NNW
17	73	49	-	-	-	2.3	2 10	9	/	-	-	14	40	WSW	WNW	SW	NNW
18	65	35	-	-	-	-	-	-	/	-	-	11	36	NNW	NNW	NNW	NW
19	59	37	120	45	6	-	-	-	/	-	-	14	47	NNW	NNW	NW	NW
20	54	36	-	-	-	-	-	-	/	-	-	11	36	NNW	NNW	NE	NNW
21	67	43	-	-	-	-	-	-	/	-	-	11	32	NNW	NNE	NE	N
22	66	38	-	-	-	-	-	-	/	-	-	11	32	N	NNW	NW	NNE
23	65	42	-	-	-	-	-	-	/	-	-	7	29	NNE	NE	VAR	N
24	61	40	-	-	-	-	-	-	/	-	-	14	36	S	SW	NW	N
25	62	41	-	-	-	-	-	-	/	-	-	14	40	NE	NE	ENE	NE
26	78	62	33	1	-	11.8	8 46	37	/	-	-	11	32	NE	ENE	NE	N
27	73	47	28	12	-	0.1	2 30	10	/	-	-	4	18	-	ENE	VAR	N
28	63	41	-	-	-	-	-	-	/	-	-	14	40	ENE	W	NNW	NNW
29	64	33	-	-	-	2.9	6 08	26	/	-	-	14	47	SSW	SSW	S	S
30	79	46	-	-	-	4.6	7 48	33	/	-	-	22	61	WNW	SW	NNW	NNW
31	80	68	-	-	-	0.1	1 10	5	/	-	-	22	47	WNW	NW	NW	NW
M	71		188	64	8	51.4	75 29			0	1	12					

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. juni 2010

	Druk hPa	Bewolking Octas					Zon Duur h min	Temperaturen °C									
		0h	6	12	18			Gem.	Lucht		Gras Min.	Minimum onder naakte grond					
					h min	18			Max.	Min.		-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1017.4	8	8	7	8	/	12.8	16.8	9.5	9.7	13.4	13.5	13.5	13.6	13.5	12.8	
2	1019.9	0	7	2	1	/	15.7	21.8	10.1	8.5	13.5	13.7	13.6	13.8	13.7	12.8	
3	1021.8	0	1	1	0	/	17.4	23.6	10.4	9.2	14.3	14.5	14.4	14.6	13.9	12.8	
4	1020.9	0	0	0	1	/	19.1	25.7	11.3	9.7	15.1	15.3	15.2	15.3	14.3	12.9	
5	1018.8	0	0	4	5	/	20.9	28.1	10.2	9.9	15.9	16.1	16.0	16.1	14.9	13.1	
6	1012.2	0	6	7	5	/	18.7	23.5	14.8	13.7	17.1	17.2	17.2	17.2	15.5	13.3	
7	1011.8	8	7	6	6	/	16.2	20.9	13.5	13.1	17.1	17.1	17.1	17.1	16.0	13.6	
8	1005.4	7	8	5	6	/	17.3	23.9	13.3	13.4	16.8	16.9	16.9	16.9	16.0	13.8	
9	1005.6	8	8	8	8	/	16.9	19.3	14.5	14.7	17.3	17.3	17.3	17.3	16.2	14.0	
10	1005.0	4	7	8	7	/	18.7	21.3	15.7	15.6	17.4	17.4	17.4	17.4	16.3	14.3	
11	1007.5	7	8	5	7	/	17.3	21.5	13.4	13.9	17.7	17.7	17.7	17.7	16.4	14.4	
12	1013.6	8	7	4	1	/	15.1	20.2	10.9	9.8	17.4	17.5	17.4	17.5	16.6	14.6	
13	1016.9	0	5	8	6	/	13.4	17.2	6.3	7.4	16.3	16.6	16.5	16.8	16.5	14.7	
14	1015.3	0	5	6	7	/	16.8	23.3	10.3	9.9	16.0	16.3	16.2	16.5	16.3	14.9	
15	1023.9	4	7	5	0	/	14.6	18.6	10.5	9.5	16.8	16.9	16.8	17.0	16.5	14.9	
16	1022.0	0	4	1	2	/	16.2	23.0	9.0	8.4	16.2	16.4	16.3	16.5	16.4	14.9	
17	1018.3	0	4	6	5	/	18.0	24.2	11.8	11.0	16.8	17.0	16.9	17.0	16.5	15.0	
18	1016.9	0	7	8	7	/	13.8	17.6	11.4	10.8	16.7	16.9	16.8	17.0	16.7	15.1	
19	1012.4	4	6	6	7	/	12.5	15.8	10.5	10.0	16.0	16.3	16.2	16.4	16.4	15.2	
20	1016.9	8	7	8	7	/	11.8	14.0	9.7	9.4	15.1	15.4	15.3	15.5	16.0	15.2	
21	1022.1	8	8	4	3	/	14.3	18.5	10.8	9.8	14.9	15.1	15.0	15.2	15.7	15.1	
22	1024.3	0	2	4	4	/	16.1	21.9	8.8	7.7	15.1	15.4	15.3	15.6	15.8	15.1	
23	1022.3	0	5	1	0	/	19.1	26.1	9.7	9.5	16.0	16.2	16.2	16.3	16.1	15.1	
24	1019.2	0	3	1	0	/	20.4	26.9	13.3	12.7	17.2	17.4	17.4	17.4	16.5	15.1	
25	1017.7	0	1	5	4	/	20.0	24.9	12.4	12.5	17.9	18.0	18.0	18.1	17.1	15.2	
26	1017.7	4	4	4	3	/	21.3	26.9	15.4	15.0	18.3	18.4	18.4	18.4	17.4	15.5	
27	1018.8	0	1	3	2	/	22.7	29.0	13.2	12.5	18.2	18.5	18.4	18.6	17.8	15.7	
28	1019.6	0	1	6	1	/	23.1	29.1	14.9	14.3	19.2	19.3	19.3	19.3	18.2	15.9	
29	1019.9	0	6	6	3	/	21.5	26.7	13.3	13.9	19.3	19.6	19.5	19.6	18.6	16.1	
30	1019.7	0	4	4	4	/	21.6	27.3	16.3	16.0	19.7	19.8	19.8	19.9	18.9	16.4	
M	1016.8					/	17.4	22.6	11.8								

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

10

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. juni 2010

	Rel. Vocht.		Mist			Neerslag				Dag met		Wind						
	%	Min.	Duur in minuten			l/m ²	Duur		%	* (cm)	^	R	Gem.	Snelheid (km/h) en richting			18h	
			<1000m	<500m	<200m		h min							Max.	0h	6h		12h
1	81	66	342	144	-	-	-	-	/	/	-	-	7	22 N	W	SW	WSW	NNE
2	63	37	-	-	-	-	-	-	/	/	-	-	11	47 NNW	N	N	N	N
3	58	33	-	-	-	-	-	-	/	/	-	-	14	36 NE	N	NNE	NE	NNE
4	56	30	-	-	-	-	-	-	/	/	-	-	7	18 ESE	NE	E	VAR	ENE
5	55	28	-	-	-	-	-	-	/	/	-	-	4	22 NE	N	ESE	ESE	NNE
6	70	47	-	-	-	2.7	1 54	8	/	/	-	-	11	40 WSW	E	ESE	NNW	W
7	75	47	-	-	-	-	-	-	/	/	-	-	14	36 WSW	SW	WSW	SW	NNW
8	80	47	-	-	-	24.5	7 18	30	/	/	-	-	11	58 S	ESE	ESE	SSW	SSW
9	90	82	-	-	-	20.9	13-14	55	/	/	-	X	7	29 S	E	SSE	ESE	NNE
10	87	75	78	15	4	1.4	4 37	19	/	/	-	-	7	22 SE	SE	SE	SE	ENE
11	80	62	-	-	-	-	-	-	/	/	-	-	18	54 WSW	ESE	SSW	W	NW
12	72	50	-	-	-	-	-	-	/	/	-	-	14	47 NW	E	NNW	NW	NW
13	72	54	-	-	-	-	-	-	/	/	-	-	4	22 ENE	NNW	NE	VAR	ESE
14	65	43	-	-	-	<0.1	0 24	2	/	/	-	-	14	40 NE	NNE	ENE	NE	NNE
15	62	44	-	-	-	-	-	-	/	/	-	-	22	43 NNE	NE	NE	NE	NNE
16	60	32	-	-	-	-	-	-	/	/	-	-	18	50 ENE	NNE	NE	ENE	NE
17	61	35	-	-	-	-	-	-	/	/	-	-	18	43 NE	NNE	NE	ENE	NNE
18	76	58	-	-	-	<0.1	0 49	3	/	/	-	-	14	36 NNW	NNE	NE	ENE	NNW
19	69	51	-	-	-	2.7	3 21	14	/	/	-	-	22	47 NNW	NNW	NNW	NNW	NNW
20	74	63	-	-	-	0.2	2 28	10	/	/	-	-	14	36 N	NNW	N	NNW	N
21	70	51	-	-	-	0.2	1 35	7	/	/	-	-	14	40 NW	N	NNW	NNW	NNW
22	60	38	-	-	-	-	-	-	/	/	-	-	7	29 NW	N	NE	NE	NE
23	59	37	-	-	-	-	-	-	/	/	-	-	7	25 NNW	-	SE	VAR	NNW
24	62	39	-	-	-	-	-	-	/	/	-	-	4	36 NNW	E	SSE	W	NW
25	65	48	-	-	-	-	-	-	/	/	-	-	7	22 NNE	N	E	NNW	N
26	56	37	-	-	-	-	-	-	/	/	-	-	7	22 E	NE	SE	VAR	E
27	54	29	-	-	-	-	-	-	/	/	-	-	7	25 E	NE	ENE	VAR	NE
28	56	36	-	-	-	-	-	-	/	/	-	-	11	36 NW	NNE	W	W	NW
29	61	31	-	-	-	0.3	0 16	1	/	/	-	-	11	36 W	N	W	NW	NNW
30	67	43	-	-	-	-	-	-	/	/	-	-	11	29 NW	-	SW	W	NW
M	67		420	159	4	52.9	35 56			0	0	1	11					

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. juli 2010

	Druk hPa	Bewolking Octas				Zon Duur h min	Temperaturen °C									
		Gem.	0h	6	12		Lucht		Gras Min.	Minimum onder naakte grond						
							Gem.	Max.		Min.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1015.0		0	5	7	/	23.6	30.9	14.3	14.6	19.6	19.8	19.8	19.9	19.1	16.7
2	1013.3		0	5	4	/	27.6	34.4	19.9	18.4	20.8	20.8	20.8	20.8	19.3	16.9
3	1018.1		0	4	8	/	21.7	26.6	17.1	17.0	21.6	21.7	21.7	21.7	19.8	17.1
4	1020.9		0	6	4	/	20.9	25.7	16.5	16.1	20.6	20.8	20.7	20.9	20.0	17.4
5	1020.9		0	7	6	/	18.4	22.5	15.1	14.7	20.4	20.7	20.6	20.7	20.0	17.6
6	1024.8		4	1	5	/	17.6	22.0	10.9	11.4	19.4	19.8	19.6	19.9	19.7	17.8
7	1021.9		0	2	4	/	19.6	27.3	9.5	10.1	18.3	18.8	18.7	19.0	19.4	17.9
8	1018.9		0	3	3	/	24.2	31.1	14.3	14.5	19.6	19.8	19.8	19.9	19.5	17.9
9	1017.0		0	4	5	/	26.0	33.9	16.8	15.3	20.5	20.7	20.6	20.7	19.8	17.9
10	1018.0		0	2	2	/	25.8	33.0	20.1	18.9	21.3	21.4	21.4	21.4	20.2	18.0
11	1016.0		7	3	4	/	25.4	30.4	20.1	18.9	22.0	22.1	22.0	21.9	20.6	18.2
12	1012.6		0	1	4	/	21.0	26.4	15.8	15.3	21.8	22.0	22.0	22.0	20.9	18.4
13	1010.3		0	6	4	/	21.5	27.3	14.3	14.2	20.9	21.1	21.0	21.2	20.7	18.6
14	1006.2		0	3	4	/	21.4	28.7	17.1	15.8	21.0	21.2	21.1	21.3	20.7	18.7
15	1011.2		7	2	5	/	19.5	23.7	16.0	14.3	20.3	20.6	20.5	20.8	20.5	18.8
16	1013.9		0	4	7	/	19.5	23.8	16.0	15.0	19.5	19.8	19.7	19.9	20.1	18.8
17	1020.5		0	7	5	/	18.0	22.5	14.6	13.1	19.3	19.5	19.5	19.7	19.9	18.7
18	1026.9		0	1	1	/	18.5	24.0	12.2	11.7	18.7	19.0	18.9	19.1	19.6	18.7
19	1022.4		0	1	1	/	21.9	28.2	12.3	12.0	19.3	19.6	19.5	19.7	19.8	18.6
20	1013.0		0	5	7	/	24.0	30.9	14.7	14.0	20.2	20.4	20.4	20.5	20.0	18.6
21	1007.9		0	4	6	/	21.7	24.3	17.2	16.6	20.9	21.0	21.0	21.0	20.3	18.7
22	1013.6		3	4	6	/	19.6	24.8	13.1	12.3	20.3	20.5	20.5	20.6	20.4	18.7
23	1018.5		0	4	6	/	17.7	22.3	13.0	12.9	19.8	20.0	20.0	20.2	20.2	18.9
24	1022.5		8	1	1	/	17.9	22.0	14.2	12.9	19.3	19.5	19.5	19.7	20.0	18.9
25	1017.0		0	6	8	/	17.9	21.9	13.6	12.1	19.1	19.4	19.3	19.5	19.9	18.9
26	1014.7		6	8	6	/	17.9	21.1	15.4	14.3	19.1	19.4	19.3	19.5	19.7	18.9
27	1018.0		7	6	7	/	18.4	22.5	13.7	13.9	18.7	18.9	18.9	19.1	19.5	18.8
28	1015.8		0	5	4	/	19.5	24.2	14.5	14.3	19.7	19.8	19.8	19.8	19.6	18.7
29	1013.7		8	7	5	/	17.0	20.8	13.5	13.2	19.1	19.3	19.3	19.5	19.6	18.7
30	1014.8		8	4	3	/	19.6	24.6	15.4	14.9	18.8	18.9	18.9	19.1	19.4	18.7
31	1013.6		0	7	8	/	20.4	24.8	16.8	16.8	19.7	19.8	19.8	19.9	19.6	18.7
M	1016.5					/	20.8	26.0	15.1							

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

10

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" I 14m Periode 00-24 h W.T. juli 2010

Rel. Vocht.			Mist			Neerslag				Wind										
%			Duur in minuten			Duur		* (cm)		Dag met		Snelheid (km/h) en richting								
Gem.	Min.		<1000m	<500m	<200m	l/m ²	h min	%	6h	18h	*	^	R	Gem.	Max.	0h	6h	12h	18h	
1	62	39	-	-	-	-	-	-	/	/	-	-	-	-	7	32	SE	SSE	SW	SSW
2	51	29	-	-	-	-	-	-	/	/	-	-	-	-	14	58	SSE	SSE	SW	S
3	78	57	-	-	-	5.0	2 54	12	/	/	-	-	X	-	11	32	N	NW	W	NW
4	61	35	-	-	-	-	-	-	/	/	-	-	-	-	11	36	N	SE	SW	NNW
5	71	52	-	-	-	2.2	0 40	3	/	/	-	-	-	-	11	36	W	WSW	W	NNW
6	62	43	13	13	1	0.2	1 04	4	/	/	-	-	-	-	11	40	SSW	NNW	NW	NW
7	58	32	-	-	-	-	-	-	/	/	-	-	-	-	7	32	SE	ESE	W	WSW
8	54	30	-	-	-	-	-	-	/	/	-	-	-	-	7	29	NNW	-	SW	W
9	56	29	-	-	-	-	-	-	/	/	-	-	-	-	7	32	E	ESE	WSW	NNW
10	56	37	-	-	-	17.2	2 39	11	/	/	-	-	X	-	7	54	WSW	W	ESE	NNW
11	62	49	48	12	3	-	-	-	/	/	-	-	-	-	14	36	ESE	SW	WSW	N
12	74	57	-	-	-	5.3	2 48	12	/	/	-	-	X	-	11	58	N	ESE	SW	W
13	68	46	-	-	-	-	-	-	/	/	-	-	-	-	7	32	S	ENE	SW	W
14	69	43	-	-	-	11.2	2 57	12	/	/	-	X	X	-	14	68	S	SSW	SSE	S
15	60	38	-	-	-	0.7	1 02	4	/	/	-	-	-	-	22	54	SSW	SSW	SW	SSW
16	70	48	-	-	-	1.6	2 18	10	/	/	-	-	-	-	14	54	SE	S	WSW	SW
17	65	40	-	-	-	0.2	0 59	4	/	/	-	-	-	-	14	43	W	SW	WSW	W
18	60	40	-	-	-	-	-	-	/	/	-	-	-	-	7	25	S	SW	VAR	W
19	55	26	-	-	-	-	-	-	/	/	-	-	-	-	4	18	SSE	NE	SE	E
20	56	29	-	-	-	-	-	-	/	/	-	-	-	-	7	29	SE	ESE	SE	ESE
21	64	48	-	-	-	<0.1	0 12	1	/	/	-	-	-	-	11	36	S	ESE	W	SSW
22	66	38	-	-	-	-	-	-	/	/	-	-	-	-	11	47	WSW	WSW	VAR	NW
23	73	54	-	-	-	0.4	0 38	3	/	/	-	-	-	-	11	36	N	W	W	NW
24	55	36	-	-	-	-	-	-	/	/	-	-	-	-	14	36	NNW	NW	NNW	NW
25	73	60	-	-	-	<0.1	0 31	2	/	/	-	-	-	-	11	32	SE	WSW	WSW	NW
26	76	57	-	-	-	0.5	2 29	10	/	/	-	-	-	-	18	47	NW	WSW	NW	NNW
27	76	60	-	-	-	0.3	2 47	12	/	/	-	-	-	-	7	25	SW	SSE	SW	SSW
28	71	44	-	-	-	2.7	2 31	10	/	/	-	-	-	-	14	47	NNW	W	NNW	NNW
29	74	51	-	-	-	2.8	1 20	6	/	/	-	-	-	-	18	50	NW	NE	NW	NW
30	64	36	-	-	-	<0.1	0 40	3	/	/	-	-	-	-	7	29	SW	WSW	VAR	SW
31	68	52	-	-	-	1.0	1 55	8	/	/	-	-	-	-	11	36	SW	SSW	SSW	NNW
M	65		61	25	4	51.3	30 24				0	1	4	11						

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. augustus 2010

	Druk hPa	Bewolking Octas					Zon		Temperaturen °C								
							Duur	Lucht			Gras	Minimum onder naakte grond					
		Gem.	0h	6	12	18	h min	Gem.	Max.	Min.	Min.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1014.0	7	7	5	6	/	19.5	22.4	16.8	16.6	19.8	20.0	19.9	20.1	19.7	18.7	
2	1016.0	4	6	6	7	/	17.2	19.9	15.2	14.4	19.5	19.8	19.7	19.9	19.7	18.7	
3	1016.2	0	4	6	7	/	17.6	22.9	13.9	13.4	18.7	18.9	18.8	19.1	19.5	18.7	
4	1008.4	0	7	7	7	/	17.2	20.6	14.7	14.3	19.0	19.2	19.1	19.3	19.4	18.7	
5	1011.0	7	2	7	4	/	16.1	20.0	11.2	11.1	18.2	18.5	18.4	18.7	19.1	18.6	
6	1017.1	0	4	5	3	/	17.8	23.6	9.7	10.6	17.5	17.8	17.7	18.0	18.9	18.5	
7	1016.9	8	6	7	7	/	18.4	24.6	15.0	15.1	18.9	19.0	19.0	19.1	19.0	18.4	
8	1017.6	5	8	6	6	/	17.6	20.8	15.2	14.9	18.8	18.9	18.9	19.0	18.9	18.4	
9	1017.4	0	5	5	6	/	18.2	23.5	11.4	12.2	18.1	18.4	18.3	18.5	18.9	18.3	
10	1013.7	3	4	7	8	/	18.4	23.8	14.7	13.8	18.7	18.8	18.8	19.0	19.0	18.3	
11	1013.1	8	5	5	6	/	18.7	22.4	13.8	12.8	19.2	19.3	19.3	19.4	19.0	18.3	
12	1015.1	0	3	7	7	/	16.2	20.6	11.1	11.6	18.4	18.7	18.6	18.8	19.0	18.3	
13	1016.8	0	2	4	3	/	16.8	20.8	11.5	11.6	18.2	18.5	18.3	18.6	18.9	18.3	
14	1017.1	0	1	3	7	/	17.1	23.2	9.0	8.9	17.8	18.1	18.0	18.3	18.8	18.2	
15	1014.3	7	7	8	8	/	17.3	20.5	15.3	14.8	18.3	18.5	18.4	18.6	18.8	18.2	
16	1008.0	8	8	8	8	/	18.2	21.2	15.1	15.1	18.1	18.3	18.2	18.4	18.6	18.2	
17	1010.3	8	7	7	8	/	15.8	18.0	14.1	14.2	18.2	18.3	18.3	18.4	18.6	18.1	
18	1008.1	3	7	5	4	/	17.0	20.3	13.4	13.2	17.9	18.1	18.0	18.2	18.4	18.0	
19	1015.1	0	5	6	6	/	16.9	22.0	12.7	12.5	17.3	17.6	17.4	17.7	18.2	17.9	
20	1018.5	0	2	1	5	/	21.0	28.5	12.0	11.7	17.4	17.7	17.6	17.8	18.2	17.8	
21	1021.4	0	5	5	5	/	22.3	27.5	18.1	17.2	18.9	18.9	18.9	19.0	18.4	17.8	
22	1015.4	8	6	5	7	/	21.1	24.8	18.2	17.5	19.6	19.6	19.6	19.7	18.8	17.8	
23	1002.6	8	8	7	3	/	20.2	23.3	16.1	15.8	19.7	19.9	19.8	19.9	19.2	18.0	
24	1009.6	0	1	6	2	/	17.1	20.8	14.0	13.6	18.7	18.9	18.8	19.1	19.1	18.1	
25	1015.3	0	7	7	8	/	16.5	20.7	13.2	12.8	18.0	18.3	18.1	18.4	18.8	18.2	
26	1006.8	8	8	7	8	/	19.4	23.6	14.8	15.3	18.2	18.3	18.3	18.5	18.6	18.1	
27	1006.7	8	8	7	7	/	16.4	18.2	13.5	13.4	18.1	18.3	18.2	18.5	18.7	18.1	
28	1017.8	0	1	5	4	/	15.0	18.7	11.6	12.2	17.2	17.5	17.4	17.7	18.3	18.0	
29	1012.9	5	7	8	7	/	13.7	16.7	11.2	11.3	16.1	16.6	16.4	16.8	17.9	17.9	
30	1016.7	5	3	4	5	/	14.9	18.8	11.9	11.5	15.8	16.1	15.9	16.3	17.3	17.7	
31	1024.4	0	1	5	5	/	14.4	18.8	8.3	9.0	15.2	15.6	15.5	15.8	17.0	17.5	
M	1014.0						/	17.5	21.7	13.5							

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. augustus 2010

	Rel. Vocht.		Mist			Neerslag					Wind								
	%		Duur in minuten			l/m²	Duur		* (cm)		Dag met		Snelheid (km/h) en richting						
	Gem.	Min.	<1000m	<500m	<200m		h min	%	6h	18h	*	^	R	Gem.	Max.	0h	6h	12h	18h
1	67	53	-	-	-	<0.1	0 31	2	/	/	-	-	-	11	29	WSW	WSW	WSW	WNW
2	83	68	-	-	-	13.6	5 36	23	/	/	-	X	7	22	W	WNW	SSW	S	
3	73	49	-	-	-	-	-	-	/	/	-	-	7	40	SW	WNW	WSW	SSW	
4	75	57	-	-	-	3.3	3 12	13	/	/	-	-	14	40	SW	SW	SSW	WSW	
5	74	45	-	-	-	8.4	3 29	15	/	/	-	-	11	50	WNW	W	W	WNW	
6	65	39	-	-	-	-	-	-	/	/	-	-	7	25	S	SSW	S	SSW	
7	75	49	-	-	-	5.0	2 36	11	/	/	-	-	11	32	W	SE	S	SSW	
8	81	65	-	-	-	1.2	1 48	8	/	/	-	-	14	40	NW	W	WSW	NNW	
9	69	40	13	-	-	-	-	-	/	/	-	-	7	18	SW	WSW	SW	S	
10	75	53	-	-	-	2.1	5 13	22	/	/	-	-	14	54	SW	W	SW	SW	
11	70	43	-	-	-	1.5	2 04	9	/	/	-	-	11	29	SSW	SSW	W	WNW	
12	74	50	-	-	-	<0.1	0 31	2	/	/	-	-	11	36	WNW	-	SSW	NW	
13	70	47	-	-	-	<0.1	1 09	5	/	/	-	-	11	36	W	SW	SSW	W	
14	70	42	94	67	37	0.1	0 22	2	/	/	-	-	7	29	NE	SE	ESE	NW	
15	79	62	-	-	-	15.9	9 26	39	/	/	-	-	18	47	NNE	NE	N	N	
16	88	76	-	-	-	16.2	13 13	55	/	/	-	-	14	43	WNW	NNW	N	NW	
17	85	68	-	-	-	5.2	9 41	40	/	/	-	-	22	47	WNW	W	WSW	WSW	
18	73	52	-	-	-	<0.1	0 31	2	/	/	-	-	14	36	WNW	SW	SW	NNW	
19	71	51	-	-	-	-	-	-	/	/	-	-	14	32	SW	SW	SSW	SSW	
20	65	44	-	-	-	-	-	-	/	/	-	-	11	40	SW	SSE	SE	NW	
21	72	56	-	-	-	-	-	-	/	/	-	-	11	29	WSW	WSW	SSW	SSW	
22	78	65	-	-	-	1.3	1 46	7	/	/	-	X	11	25	WSW	WSW	SSW	NNE	
23	77	57	-	-	-	15.7	6 00	25	/	/	-	-	22	65	SW	E	S	WSW	
24	65	42	-	-	-	-	-	-	/	/	-	-	25	61	WSW	WSW	WSW	WSW	
25	75	50	-	-	-	11.4	8 22	35	/	/	-	-	14	32	WSW	WSW	SW	E	
26	86	70	-	-	-	24.0	14 27	60	/	/	-	-	14	47	SSW	E	SSW	SSW	
27	83	68	-	-	-	3.1	3 15	14	/	/	-	-	14	36	W	WSW	WSW	N	
28	71	49	-	-	-	4.6	2 54	12	/	/	-	-	18	50	WNW	NW	WSW	WNW	
29	81	61	-	-	-	23.8	9 29	40	/	/	-	-	22	68	NW	SW	WSW	W	
30	75	60	-	-	-	4.7	6 04	25	/	/	-	-	22	72	NW	NNW	NNW	N	
31	74	54	70	13	-	<0.1	0 07	0	/	/	-	-	7	22	NNW	NNW	VAR	N	
M	75		177	80	37	161.1	111 46		/	/	0	0	3	13					

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" O

14m

Periode 00-24 h W.T.

september 2010

	Druk hPa	Bewolking Octas				Zon		Lucht		Gras		Temperaturen °C					
		Gem.	0h	6	12	18	Duur h min	Gem.	Max.	Min.	Min.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1021.7	0	3	4	6	/	14.2	18.8	9.5	15.5	15.8	15.7	16.0	16.9	17.3		
2	1021.0	0	5	8	3	/	14.1	19.0	8.4	15.5	15.8	15.7	16.0	16.8	17.1		
3	1021.6	0	8	7	7	/	14.1	18.6	10.2	15.6	15.9	15.8	16.1	16.8	17.0		
4	1021.9	0	2	6	5	/	14.6	19.5	9.6	15.5	15.8	15.7	16.0	16.7	16.9		
5	1021.6	0	5	2	2	/	14.4	19.9	8.1	15.4	15.7	15.5	15.8	16.6	16.8		
6	1013.5	0	0	2	7	/	15.2	20.8	8.5	15.3	15.5	15.5	15.7	16.5	16.8		
7	1004.0	8	7	7	7	/	14.6	19.0	11.7	15.6	15.8	15.7	16.0	16.5	16.7		
8	1001.4	4	8	6	7	/	15.6	20.9	12.7	15.8	16.0	15.9	16.1	16.5	16.6		
9	1014.0	7	6	3	6	/	16.1	20.6	14.1	16.4	16.4	16.4	16.5	16.6	16.6		
10	1020.4	0	7	8	7	/	16.3	18.5	14.1	16.5	16.5	16.5	16.6	16.7	16.6		
11	1018.1	8	4	3	6	/	19.0	23.9	14.2	16.4	16.5	16.5	16.7	16.7	16.6		
12	1021.0	0	6	7	1	/	16.3	19.3	12.9	16.9	17.1	17.0	17.2	16.8	16.6		
13	1025.6	0	3	6	7	/	15.5	19.0	8.9	16.0	16.3	16.1	16.4	16.8	16.6		
14	1017.3	8	7	8	8	/	17.0	18.7	13.7	16.6	16.6	16.6	16.7	16.7	16.6		
15	1010.7	8	1	3	7	/	14.6	17.7	12.0	16.2	16.3	16.2	16.5	16.7	16.6		
16	1010.1	8	2	5	6	/	13.2	17.5	10.4	15.5	15.7	15.6	15.9	16.4	16.5		
17	1014.5	0	4	4	5	/	12.2	15.9	9.5	14.9	15.2	15.1	15.4	16.1	16.4		
18	1018.9	3	7	3	4	/	12.1	16.2	8.3	14.6	14.8	14.7	15.0	15.8	16.2		
19	1017.4	0	7	8	5	/	13.2	16.5	10.5	14.6	14.8	14.7	14.9	15.6	16.1		
20	1015.9	0	5	5	6	/	15.7	19.6	12.4	14.7	14.8	14.7	15.0	15.5	16.0		
21	1020.4	0	8	2	1	/	15.7	20.9	11.5	14.9	15.1	15.0	15.2	15.5	15.9		
22	1018.6	0	2	4	3	/	15.8	23.4	7.9	14.5	14.8	14.7	15.0	15.6	15.8		
23	1010.0	0	7	7	8	/	15.9	21.1	9.7	15.0	15.2	15.1	15.4	15.7	15.8		
24	1002.8	6	7	7	6	/	14.9	18.2	11.5	15.8	15.9	15.9	16.0	15.8	15.8		
25	1009.1	7	4	5	7	/	11.8	14.9	9.2	14.8	15.0	14.9	15.2	15.8	15.8		
26	1007.4	5	6	6	6	/	10.4	12.7	5.4	13.8	14.2	14.1	14.4	15.4	15.8		
27	1011.9	0	5	8	8	/	9.3	13.1	3.4	12.9	13.2	13.1	13.5	14.9	15.6		
28	1016.8	8	8	8	8	/	12.5	14.7	10.4	13.8	13.8	13.8	14.0	14.7	15.4		
29	1018.8	7	8	7	7	/	12.6	15.6	10.5	14.1	14.1	14.1	14.2	14.7	15.3		
30	1014.6	7	8	8	6	/	12.9	17.1	8.4	13.9	14.1	14.0	14.3	14.7	15.2		
M	1015.4					/	14.3	18.4	10.3								

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" I 14m Periode 00-24 h W.T. september 2010

	Rel.Vocht.		Mist		Neerslag				Dag met		Wind				
	%	Min.	Duur in minuten		l/m²	Duur	* (cm)		^	R	Snelheid (km/h)		en richting		
			<1000m	<500m		h min	%	6h			Gem.	Max.	0h	6h	12h
1	73	53	-	-	-	-	-	/	-	-	7	29	ENE	NE	VAR
2	77	57	12	-	-	-	-	/	-	-	7	25	ENE	NE	ENE
3	81	65	273	153	19	-	-	/	-	-	7	22	NNE	E	NNE
4	74	48	35	6	1	-	-	/	-	-	7	25	ENE	NE	NE
5	67	37	-	-	-	-	-	/	-	-	11	32	ENE	E	ENE
6	65	44	-	-	-	2 55	12	/	-	-	18	47	ESE	E	ESE
7	88	77	-	-	-	6 38	28	/	-	-	11	36	ESE	ESE	ESE
8	85	65	-	-	-	12 49	53	/	-	-	14	40	WNN	WNN	WNN
9	85	64	-	-	-	3 57	16	/	-	-	11	29	W	WSW	W
10	83	73	-	-	-	2 15	9	/	-	-	11	25	SSW	SW	SSW
11	70	50	-	-	-	-	-	/	-	-	11	40	S	S	S
12	81	63	-	-	-	4 50	20	/	-	-	11	36	SW	W	NNW
13	71	50	-	-	-	0 49	3	/	-	-	11	32	WSW	WSW	WSW
14	80	70	-	-	-	5 25	23	/	-	-	25	54	W	WSW	WSW
15	69	44	-	-	-	2 05	9	/	-	-	22	54	W	WSW	WSW
16	82	58	-	-	-	3 37	15	/	-	-	14	43	WSW	WSW	WSW
17	76	57	-	-	-	2 56	12	/	-	-	14	47	WSW	WSW	WSW
18	69	44	-	-	-	0 19	1	/	-	-	11	29	VAR	WSW	NNW
19	76	67	-	-	-	0 45	3	/	-	-	14	36	SW	SSW	NNW
20	72	53	-	-	-	-	-	/	-	-	14	43	SW	SSW	WSW
21	81	58	59	40	25	-	-	/	-	-	7	18	SSW	S	ENE
22	77	50	364	273	251	-	-	/	-	-	7	25	ESE	E	S
23	81	60	-	-	-	5 28	23	/	-	X	7	29	SSE	ESE	SSE
24	83	60	-	-	-	1 57	8	/	-	-	11	40	N	SW	NNW
25	76	56	-	-	-	7 04	29	/	-	-	18	54	NNW	NNW	W
26	89	80	177	111	23	6 16	26	/	-	-	7	25	NE	S	NE
27	88	73	276	257	18	10 03	42	/	-	-	7	22	SW	-	SW
28	88	81	-	-	-	-	-	/	-	-	4	14	SW	S	SSW
29	87	76	-	-	-	-	-	/	-	-	7	18	E	E	SSW
30	84	61	-	-	-	7 09	30	/	-	-	7	29	ESE	ESE	WNN
M	79		1196	840	337	121.5			0	0	1	11			

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. oktober 2010

	Druk hPa	Bewolking Octas					Zon		Temperaturen °C								
		Gem.	0h	6	12	18	Duur	Lucht			Gras	Minimum onder naakte grond					
								Gem.	Max.	Min.		-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1011.5	0	5	5	6	8	/	12.0	16.8	5.4	5.5	13.0	13.3	13.2	13.5	14.6	15.1
2	1007.7	8	7	7	7	7	/	15.5	17.1	12.9	12.6	13.8	13.9	13.9	14.0	14.5	15.0
3	1002.7	0	5	2	2	7	/	18.7	23.6	14.9	13.5	14.5	14.6	14.6	14.6	14.6	15.0
4	1000.3	0	7	7	7	7	/	17.0	22.1	12.8	12.1	15.1	15.1	15.1	15.2	14.8	15.0
5	1004.8	0	7	6	6	7	/	16.6	19.7	14.4	14.1	15.3	15.4	15.4	15.4	15.1	15.0
6	1010.5	8	7	8	7	7	/	16.6	19.2	13.4	13.5	15.6	15.6	15.7	15.8	15.3	15.1
7	1019.2	8	7	7	7	7	/	15.3	18.9	11.2	11.9	15.1	15.2	15.2	15.3	15.4	15.2
8	1017.9	0	1	1	1	1	/	14.1	19.0	9.3	8.7	14.7	14.9	14.8	15.0	15.4	15.2
9	1015.3	0	7	0	0	0	/	14.1	20.8	10.0	7.3	14.3	14.5	14.5	14.6	15.2	15.2
10	1013.4	0	0	0	0	0	/	12.9	20.0	7.5	5.6	13.6	13.9	13.8	14.1	15.0	15.2
11	1016.2	0	1	1	2	1	/	10.5	16.7	5.3	4.8	12.7	13.0	13.0	13.3	14.6	15.1
12	1018.8	0	7	0	0	1	/	8.6	13.0	5.3	5.2	12.1	12.5	12.4	12.7	14.2	15.0
13	1018.7	1	7	6	3	3	/	8.7	12.7	4.3	3.5	11.9	12.2	12.1	12.4	13.8	14.8
14	1018.7	0	2	7	6	6	/	8.3	12.2	2.2	2.0	10.9	11.3	11.2	11.6	13.4	14.6
15	1015.5	8	7	7	7	8	/	10.9	13.6	9.1	8.8	12.0	12.1	12.1	12.2	13.3	14.4
16	1015.4	8	2	6	6	7	/	8.9	12.1	4.4	3.0	11.0	11.3	11.2	11.6	13.1	14.2
17	1024.0	0	1	5	7	7	/	6.2	10.0	1.7	1.6	10.1	10.4	10.4	10.7	12.6	14.0
18	1020.4	0	1	5	7	7	/	7.1	12.2	-0.2	0.1	9.1	9.5	9.4	9.9	12.1	13.8
19	1008.0	7	7	4	4	5	/	9.8	13.1	7.3	7.0	10.4	10.5	10.5	10.7	12.0	13.6
20	1014.1	8	7	6	6	6	/	6.7	9.2	4.9	4.5	9.3	9.6	9.5	9.8	11.6	13.3
21	1023.3	7	1	3	3	2	/	6.6	10.8	2.7	1.7	8.3	8.7	8.6	9.0	11.0	12.9
22	1019.4	8	4	7	7	5	/	7.7	11.5	4.9	4.1	8.2	8.4	8.4	8.6	10.7	12.6
23	1006.6	4	2	7	4	4	/	7.0	8.7	4.7	4.8	7.9	8.2	8.1	8.4	10.4	12.4
24	1011.5	7	3	3	3	3	/	7.5	10.7	2.0	3.7	8.0	8.2	8.2	8.4	10.3	12.1
25	1025.3	0	1	2	1	1	/	6.7	10.9	1.3	2.3	7.3	7.7	7.6	7.9	10.1	12.0
26	1027.9	6	1	7	7	8	/	6.3	10.6	-0.1	2.1	6.6	7.0	6.9	7.4	9.9	11.9
27	1021.3	8	7	6	6	8	/	9.4	12.2	6.8	7.1	8.2	8.3	8.3	8.4	9.9	11.7
28	1019.0	8	7	5	6	6	/	10.9	14.1	8.3	7.8	9.0	9.1	9.1	9.3	10.1	11.6
29	1007.5	0	7	6	5	5	/	11.4	15.4	6.1	7.1	9.3	9.4	9.4	9.6	10.4	11.6
30	1001.7	0	8	8	1	1	/	11.5	13.8	4.7	5.5	9.7	10.1	10.0	10.2	10.6	11.7
31	1001.7	0	8	5	3	3	/	9.9	14.6	3.9	5.5	9.2	9.4	9.4	9.6	10.8	11.7
M	1014.1						/	10.8	14.7	6.5							

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE(RLW) 4° 27' 11" E 51° 11' 32" L 14m Periode 00-24 h W.T. oktober 2010

	Rel.Vocht.		Mist			Neerslag				Dag met		Wind					
	Gem.	Min.	Duur in minuten			Duur		* (cm)	^	R	Snelheid (km/h) en richting						
			<1000m	<500m	<200m	h min	%				Max.	0h	6h	12h	18h		
1	81	62	-	-	-	6 22	27	/	-	-	-	14	36	SSE	SE	S	SSE
2	90	86	-	-	-	8 48	37	/	-	-	-	14	29	S	SSW	SSE	S
3	75	59	-	-	-	-	-	/	-	-	-	18	43	SSE	SSE	SSE	SSE
4	81	59	38	26	4	0 57	4	/	-	-	-	7	36	S	E	SSE	ESE
5	83	64	-	-	-	0 20	1	/	-	-	-	14	36	SSW	SSW	SSW	S
6	81	64	-	-	-	3 30	15	/	-	-	-	14	32	SSE	S	S	SW
7	86	76	108	56	-	2 35	11	/	-	-	-	7	25	E	NNE	E	ENE
8	84	67	-	-	-	-	-	/	-	-	-	11	29	ENE	E	E	ENE
9	81	64	376	327	-	-	-	/	-	-	-	11	25	E	ENE	E	E
10	68	37	-	-	-	-	-	/	-	-	-	14	36	ENE	E	E	ENE
11	68	38	-	-	-	-	-	/	-	-	-	14	36	NE	ENE	ENE	NE
12	80	60	-	-	-	-	-	/	-	-	-	11	25	NE	NNE	N	NNE
13	79	62	78	55	5	-	-	/	-	-	-	7	22	NE	NE	NE	N
14	85	73	221	176	43	-	-	/	-	-	-	4	14	NNE	-	E	N
15	84	67	-	-	-	9 38	40	/	-	-	-	7	25	NW	SSE	WSW	W
16	77	64	-	-	-	0 13	1	/	-	-	-	14	50	NNE	NNW	NNE	NNE
17	75	61	-	-	-	0 19	1	/	-	-	-	11	32	ENE	N	NE	N
18	77	59	-	-	-	7 43	32	/	-	-	-	11	32	SW	-	SW	SSW
19	80	60	-	-	-	14.9	32	/	-	-	-	18	40	NNW	WSW	WNW	WSW
20	85	71	-	-	-	20.3	63	/	-	-	-	14	54	NNW	NW	W	SSW
21	71	49	-	-	-	0 44	3	/	-	-	-	14	40	WSW	SW	WSW	SSW
22	75	68	-	-	-	-	-	/	-	-	-	14	32	SSW	SW	SW	SSW
23	78	61	-	-	-	6 56	29	/	-	-	-	18	47	SSW	S	SSW	SSW
24	82	66	-	-	-	3 01	13	/	-	-	-	14	58	NNW	WSW	WNW	W
25	75	53	-	-	-	0 57	4	/	-	-	-	7	29	N	NNW	N	NW
26	78	58	-	-	-	5 38	23	/	-	-	-	11	36	SSW	W	SSW	S
27	81	69	-	-	-	8 28	35	/	-	-	-	18	40	SSW	SSW	SSW	S
28	82	73	-	-	-	0 38	3	/	-	-	-	18	32	SW	SW	SW	SSW
29	72	54	-	-	-	-	-	/	-	-	-	14	32	SSE	S	SSE	SSE
30	82	61	40	1	-	6 26	27	/	-	-	-	11	25	S	SW	SSW	SSE
31	87	71	96	80	52	6 21	26	/	-	-	-	7	29	SSE	E	S	NE
M	79		957	721	104	94 36		90.6	0	0	1	12					

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" O

14m

Periode 00-24 h W.T.

november 2010

	Druk hPa	Bewolking Octas				Zon		Temperaturen °C									
						Duur	Lucht		Gras	Minimum onder naakte grond							
		Gem.	0h	6	12	18	h min	Gem.	Max.	Min.	Min.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1011.5	0	7	7	7	7	/	9.0	12.0	6.1	6.5	9.5	9.6	9.6	9.8	10.9	11.8
2	1013.3	8	4	7	7	7	/	10.7	12.8	8.2	8.3	9.8	10.0	9.9	10.1	10.9	11.8
3	1013.4	2	7	6	5	5	/	14.0	15.5	12.2	10.9	10.6	10.6	10.6	10.7	11.0	11.8
4	1019.5	8	8	7	7	7	/	15.7	17.2	14.6	13.2	11.8	11.6	11.7	11.6	11.3	11.8
5	1020.5	8	7	7	8	8	/	13.9	15.0	13.0	12.3	12.3	12.3	12.3	12.4	11.8	11.9
6	1014.2	7	7	7	7	7	/	10.5	14.7	5.1	7.4	10.8	11.2	11.1	11.4	12.2	12.1
7	1004.1	8	6	7	6	6	/	6.5	8.3	3.9	6.0	9.8	10.1	10.0	10.3	11.7	12.2
8	981.9	6	4	7	7	7	/	5.4	7.4	2.9	4.3	8.4	8.7	8.6	9.0	11.1	12.2
9	977.4	8	7	7	8	8	/	6.3	8.2	4.5	4.7	8.3	8.5	8.4	8.8	10.6	12.0
10	992.9	8	7	7	7	6	/	6.2	8.7	4.5	5.1	8.2	8.4	8.4	8.7	10.3	11.8
11	997.3	0	3	8	8	7	/	6.9	12.7	3.1	3.9	7.1	7.5	7.4	7.8	9.8	11.6
12	993.8	0	2	6	6	8	/	12.0	14.3	10.1	7.5	7.9	8.1	8.0	8.2	9.6	11.3
13	995.4	8	7	8	8	8	/	11.5	14.3	9.7	10.4	9.8	9.6	9.7	9.6	9.7	11.1
14	996.6	8	7	8	7	7	/	12.3	14.2	8.0	8.6	10.4	10.4	10.4	10.4	10.4	11.1
15	1013.9	8	7	6	3	3	/	7.2	10.9	2.6	4.5	8.5	8.9	8.8	9.1	10.6	11.2
16	1022.0	0	7	7	7	8	/	3.4	5.4	1.1	4.1	7.7	8.1	8.0	8.3	10.0	11.2
17	1013.1	8	7	7	7	7	/	4.5	5.7	2.9	3.8	7.4	7.7	7.6	7.9	9.6	11.1
18	1009.3	8	7	7	8	8	/	5.3	6.7	2.1	3.2	6.9	7.3	7.1	7.5	9.3	10.9
19	1013.9	8	7	8	7	7	/	7.5	9.1	5.5	6.2	7.5	7.6	7.6	7.8	9.2	10.8
20	1014.3	8	8	3	2	2	/	6.6	9.0	2.9	3.4	7.0	7.4	7.2	7.6	9.2	10.6
21	1009.4	0	1	7	7	6	/	3.4	4.8	1.3	1.7	5.9	6.4	6.2	6.6	8.7	10.6
22	1006.6	8	7	7	7	7	/	4.7	6.0	3.4	2.9	5.8	6.1	6.0	6.4	8.4	10.3
23	1007.4	8	7	7	7	4	/	5.3	6.3	4.0	3.8	5.8	6.1	6.0	6.3	8.2	10.1
24	1007.0	7	7	7	7	4	/	4.3	6.3	2.1	2.9	5.9	6.1	6.1	6.3	8.1	10.0
25	1003.5	2	7	7	7	8	/	2.6	5.1	1.1	2.3	5.4	5.7	5.6	5.9	7.8	9.8
26	1004.9	8	4	7	7	7	/	1.7	3.5	-1.1	0.9	4.7	5.1	4.9	5.4	7.5	9.6
27	1004.2	8	7	6	2	2	/	0.4	2.9	-3.7	-1.9	3.7	4.2	4.1	4.6	7.2	9.4
28	1006.1	0	1	4	4	4	/	-2.4	1.1	-5.6	-3.1	2.4	2.8	2.7	3.2	6.4	9.2
29	1009.3	3	7	7	7	7	/	-2.2	-1.2	-3.3	-2.7	2.1	2.5	2.4	2.8	5.8	8.9
30	1012.5	8	7	8	8	8	/	-1.5	-0.4	-2.8	-3.1	2.2	2.6	2.4	2.8	5.5	8.5
M	1006.3						/	6.4	8.6	3.9							

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" I

14m

Periode 00-24 h W.T.

november 2010

	Rel. Vocht. %	Mist			Neerslag				Wind									
		Duur in minuten			l/m²	Duur		* (cm)	Dag met		Snelheid (km/h) en richting							
		<1000m	<500m	<200m		h min	%		6h	18h	*	^	R	Gem.	Max.	0h	6h	12h
1	91	85	794	756	316	-	-	/	/	-	-	4	14	SW	NNW	W	WSW	NNW
2	87	79	34	13	-	<0.1	0 22	2	/	-	-	18	47	SW	SW	S	SW	SW
3	80	72	-	-	-	0.2	1 34	7	/	-	-	22	47	WSW	WSW	SW	WSW	WSW
4	79	72	-	-	-	0.2	1 59	8	/	-	-	29	61	WSW	WSW	WSW	WSW	WSW
5	86	77	-	-	-	2.4	9 57	41	/	-	-	22	50	WSW	SW	WSW	SW	WSW
6	84	71	-	-	-	9.1	6 24	27	/	-	-	14	43	SW	WSW	W	W	W
7	89	82	100	58	-	0.2	2 33	11	/	-	-	7	22	NE	SE	SW	ENE	NE
8	81	61	-	-	-	0.8	6 19	26	/	-	-	18	50	SSE	E	SE	SSE	ESE
9	90	82	-	-	-	10.4	14 49	62	/	-	-	14	29	NE	ESE	E	E	NE
10	85	66	-	-	-	5.2	8 31	35	/	-	-	14	36	NNW	NNE	N	N	NNW
11	81	66	-	-	-	13.4	8 49	37	/	-	-	22	65	SW	SW	SSW	S	SSW
12	75	60	-	-	-	13.5	9 42	40	/	-	-	29	68	WSW	WSW	WSW	WSW	SSW
13	89	84	-	-	-	52.7	21 48	91	/	-	-	14	54	W	WSW	W	SW	VAR
14	84	65	-	-	-	5.2	11 01	46	/	-	-	18	65	SW	SSW	SW	S	SSW
15	83	53	130	106	30	-	-	-	/	-	-	4	22	SW	WSW	S	WNW	-
16	93	81	1327	1115	688	<0.1	0 15	1	/	-	-	4	22	ESE	-	SE	S	ESE
17	87	79	-	-	-	-	-	-	/	-	-	11	22	ESE	ESE	E	E	E
18	87	81	-	-	-	0.8	4 20	18	/	-	-	7	14	SSE	E	ESE	SE	SSE
19	85	80	-	-	-	0.2	0 22	2	/	-	-	11	22	SSW	SSE	SE	SSW	SW
20	82	68	-	-	-	-	-	-	/	-	-	7	22	ESE	SSW	SSE	E	ENE
21	90	85	163	116	-	-	-	-	/	-	-	11	25	NE	ENE	ENE	ENE	NE
22	78	69	-	-	-	-	-	-	/	-	-	14	36	NE	NE	ENE	NE	N
23	84	76	-	-	-	0.9	4 45	20	/	-	-	11	25	NNW	N	NNW	NNE	W
24	87	74	-	-	-	10.9	11 04	46	/	-	-	14	29	WSW	WNW	W	WNW	WSW
25	89	78	-	-	-	1.1	2 57	12	/	X	X	11	29	WSW	W	WSW	SW	W
26	86	76	21	-	-	<0.1	1 19	5	/	-	-	7	22	S	NE	WSW	SSE	S
27	81	64	-	-	-	0.2	2 39	11	/	X	X	7	25	SW	S	WSW	SSW	S
28	85	71	-	-	-	-	-	-	/	-	-	7	25	ENE	ESE	E	E	NE
29	86	80	-	-	-	1.1	7 50	33	/	X	X	11	25	NE	NNE	NE	NE	ENE
30	84	73	-	-	-	1.6	17 00	71	/	X	X	18	40	ENE	ENE	ENE	E	ENE
M	85		2569	2164	1034	130.1	156 19			4	3	0	13					

* = Sneeuw ^ = Hagel R = Onweer

<0.1 : Neerslag te wijten aan mist of dauw

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" I

14m

Periode 00-24 h W.T.

december 2010

	Druk hPa	Bewolking Octas				Zon		Lucht	Temperaturen °C							
		0h	6	12	18	Duur	h min		Gras	Minimum onder naakte grond						
										-2cm	-5cm	-10cm	-20cm	-50cm	-100cm	
1	1006.4	8	8	7	8	/		-2.8	-7.0	-6.3	1.5	1.9	1.8	2.2	5.2	8.2
2	1008.7	/	7	7	7	/		-5.3	-7.0	-4.8	1.5	1.8	1.7	2.1	4.8	8.0
3	1012.1	8	7	5	1	/		-4.6	-12.2	-3.7	1.9	2.2	2.1	2.3	4.7	7.7
4	1011.8	0	7	8	8	/		-1.6	-6.8	-3.6	1.9	2.1	2.1	2.3	4.6	7.5
5	1003.6	8	8	8	8	/		2.7	0.2	0.1	2.1	2.1	2.2	2.4	4.5	7.2
6	1002.1	1	8	6	1	/		-0.4	-2.9	-1.8	1.6	1.9	1.8	2.1	4.4	7.1
7	1004.6	0	7	8	7	/		-1.7	-2.7	-2.2	1.3	1.6	1.5	1.8	4.1	6.9
8	1008.5	8	8	8	5	/		-0.6	0.7	-1.5	1.4	1.6	1.5	1.8	4.0	6.7
9	1024.3	5	7	3	2	/		2.7	0.2	-0.4	1.3	1.5	1.5	1.8	3.9	6.6
10	1028.7	8	8	8	7	/		5.3	6.4	2.8	2.2	2.3	2.2	2.4	3.9	6.4
11	1022.8	8	7	7	7	/		6.7	7.7	4.7	4.0	3.9	3.9	3.9	4.3	6.4
12	1020.5	6	5	5	0	/		4.3	7.6	-1.8	3.4	3.7	3.6	4.0	4.9	6.4
13	1025.6	0	0	4	8	/		-1.5	2.0	-5.3	1.9	2.2	2.1	2.5	4.7	6.5
14	1030.5	8	0	7	7	/		-1.4	1.5	-3.8	1.2	1.5	1.4	1.8	4.2	6.5
15	1030.0	0	5	7	3	/		1.3	5.0	-2.6	1.0	1.3	1.2	1.5	3.8	6.3
16	1007.8	8	6	7	8	/		1.9	4.7	-0.4	1.2	1.4	1.3	1.6	3.7	6.1
17	996.0	/	8	3	2	/		-1.5	0.1	-4.2	1.8	2.0	1.9	2.1	3.7	6.0
18	996.3	0	8	1	8	/		-3.5	-1.4	-8.3	1.8	2.0	1.9	2.1	3.7	5.8
19	993.7	7	7	8	8	/		-1.4	-0.4	-4.0	1.9	2.0	1.9	2.1	3.6	5.7
20	1003.9	8	7	4	1	/		-5.4	1.5	-12.2	1.8	2.0	1.9	2.1	3.6	5.6
21	1003.8	8	8	8	8	/		-1.4	0.4	-5.8	1.8	2.0	1.9	2.1	3.6	5.6
22	1004.0	8	7	7	8	/		-0.3	0.8	-1.9	1.8	1.9	1.9	2.1	3.5	5.5
23	1004.3	8	7	7	7	/		-0.9	0.2	-1.8	1.8	1.9	1.9	2.1	3.5	5.5
24	1012.6	/	8	8	0	/		/	-0.3	-2.1	1.0	1.9	1.9	2.1	3.5	5.4
25	1024.6	0	0	8	7	/		-2.2	0.1	-5.9	0.3	1.7	1.8	2.0	3.4	5.3
26	1026.4	6	7	1	7	/		1.5	4.4	-1.2	1.7	1.8	1.8	2.0	3.4	5.3
27	1022.3	8	7	8	7	/		-1.6	0.2	-5.1	1.7	1.8	1.7	1.9	3.3	5.2
28	1018.7	8	7	7	8	/		-0.1	1.5	-2.3	1.6	1.8	1.7	1.9	3.3	5.1
29	1022.4	8	7	7	7	/		1.2	2.6	0.5	1.6	1.7	1.7	1.9	3.2	5.1
30	1025.4	8	8	4	5	/		0.4	3.4	-5.6	1.4	1.5	1.5	1.7	3.2	5.0
31	1026.1	8	8	8	/	/		1.4	2.9	-1.3	1.3	1.5	1.4	1.6	3.1	4.9
M	1013.8					/		-0.5/	1.6	-3.4						

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" I 14m Periode 00-24 h W.T. december 2010

	Rel. Vocht.		Mist		Neerslag				Wind																					
	%	Min.	Duur in minuten		l/m²	Duur		* (cm)	Dag met		Snelheid (km/h) en richting																			
			<1000m	<500m		<200m	h min		%	6h	18h	*	^	R	Gem.	Max.	0h	6h	12h	18h										
1	73	62	-	-	-	0.9	7 09	30	/	/	X	-	-	22	50	ENE	ENE	ENE	ENE	ENE	E	E	SW	S	WSW	NE	E	W	WSW	
2	84	78	-	-	-	1.2	15 50	66	/	/	X	X	-	14	25	ENE	ENE	ENE	ENE	ENE	E	E	S	S	SW	E	W	W	WSW	
3	89	84	277	70	7	0.1	2 03	9	/	/	X	-	-	7	22	SW	E	E	E	E	E	E	S	S	SW	E	W	W	WSW	
4	84	70	-	-	-	8.6	11 51	49	/	/	X	-	-	22	47	SSW	S	S	S	S	S	S	S	SW	SW	E	W	W	WSW	
5	88	80	-	-	-	8.2	10 49	45	/	/	X	-	-	14	47	SSW	SSW	SSW	SSW	SSW	S	S	S	SW	SW	E	W	W	WSW	
6	88	81	-	-	-	-	-	-	/	/	-	-	-	7	14	NE	NE	NE	NE	NE	S	S	S	SW	SW	E	W	W	WSW	
7	89	84	93	-	-	<0.1	0 31	2	/	/	X	-	-	11	25	ENE	ENE	ENE	ENE	ENE	E	E	E	SW	SW	E	W	W	WSW	
8	87	81	-	-	-	0.1	0 37	3	/	/	X	-	-	11	25	NNE	NE	NE	NE	NE	E	E	E	SW	SW	E	W	W	WSW	
9	86	77	-	-	-	3.8	4 55	20	/	/	X	-	-	18	47	WNW	W	W	W	W	WNW	WNW	WNW	WNW	WNW	E	W	W	WSW	
10	88	84	-	-	-	4.2	8 38	36	/	/	-	-	-	18	36	W	W	W	W	W	W	W	W	W	W	E	W	W	WSW	
11	88	83	-	-	-	1.0	2 11	9	/	/	-	-	-	18	40	W	W	W	W	W	W	W	W	W	W	E	W	W	WSW	
12	78	68	-	-	-	0.3	1 38	7	/	/	-	-	-	14	40	NW	NW	NW	NW	NW	W	W	W	W	W	E	W	W	WSW	
13	76	67	-	-	-	0.1	1 53	8	/	/	X	-	-	7	32	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	E	W	W	WSW	
14	78	71	-	-	-	-	-	-	/	/	-	-	-	11	32	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	E	W	W	WSW	
15	83	74	-	-	-	0.3	4 09	17	/	/	X	-	-	11	36	NW	NW	NW	NW	NW	W	W	W	W	W	E	W	W	WSW	
16	90	86	-	-	-	12.1	12 40	53	/	/	X	-	-	14	54	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	E	W	W	WSW	
17	86	73	140	74	27	2.8	3 52	16	/	/	X	-	-	14	32	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	E	W	W	WSW	
18	84	74	-	-	-	4.9	10 27	44	/	/	X	-	-	14	29	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	E	W	W	WSW	
19	89	85	-	-	-	3.2	9 49	41	/	/	X	-	-	11	36	NNW	SE	SE	SE	SE	SE	SE	SE	SE	SE	E	W	W	WSW	
20	90	78	216	85	15	<0.1	0 14	1	/	/	X	-	-	7	22	NNW	NNW	NNW	NNW	NNW	SSW	SSW	SSW	SSW	SSW	E	W	W	WSW	
21	91	86	379	-	-	2.4	2 52	12	/	/	X	-	-	7	14	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ENE
22	91	86	209	-	-	0.7	3 48	16	/	/	X	-	-	11	25	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	E	W	W	WSW	
23	86	82	-	-	-	2.3	10 45	45	/	/	X	-	-	18	43	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	E	W	W	WSW	
24	78	69	-	-	-	1.2	7 31	31	/	/	X	-	-	22	47	NNE	NNE	NNE	NNE	NNE	/	/	/	/	/	E	W	W	WSW	
25	80	71	-	-	-	0.6	2 54	12	/	/	X	-	-	7	29	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	E	W	W	WSW	
26	88	80	-	-	-	0.5	1 55	8	/	/	X	-	-	14	29	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	E	W	W	WSW	
27	87	79	-	-	-	-	-	-	/	/	-	-	-	11	29	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	E	W	W	WSW	
28	84	71	-	-	-	1.4	4 13	18	/	/	-	-	-	7	18	SE	SE	SE	SE	SE	E	E	E	E	E	E	E	E	ENE	
29	90	85	464	415	109	-	-	-	/	/	-	-	-	7	11	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ENE
30	91	79	464	274	75	-	-	-	/	/	-	-	-	4	11	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ENE
31	90	85	427	363	35	0.1	0 21	1	/	/	-	-	-	7	18	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	E	W	W	WSW	
M	86		2669	1281	268	61.0	143 35				21	1	0	12																

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" O

14m

Periode 00-24 h W.T.

januari 2011

	Druk hPa	Bewolking Octas				Zon		Lucht	Gras	Temperaturen °C							
		0h	6	12	18	Duur	h min			Minimum onder naakte grond							
										Gem.	Max.	Min.	Min.	-2cm	-5cm	-10cm	-20cm
1	1022.7	/	8	8	8	/		3.8	6.0	2.2	0.6	1.5	1.6	1.5	1.7	3.0	4.8
2	1025.2	0	1	5	4	/		2.6	4.5	1.2	0.0	1.4	1.5	1.5	1.7	3.1	4.8
3	1024.3	8	7	7	7	/		2.3	3.5	1.2	1.0	1.6	1.7	1.7	1.9	3.1	4.7
4	1017.4	8	7	4	4	/		0.8	2.4	-0.9	-0.6	1.3	1.6	1.5	1.8	3.2	4.7
5	1007.1	1	7	3	7	/		1.2	5.6	-1.0	-0.6	1.0	1.2	1.1	1.4	2.9	4.7
6	995.9	8	8	8	7	/		6.7	11.7	4.8	3.5	1.6	1.5	1.5	1.6	2.9	4.6
7	1004.1	7	8	8	5	/		7.0	11.1	2.8	3.0	3.8	3.7	3.7	3.7	3.9	4.7
8	1001.8	8	1	7	3	/		10.2	12.2	6.5	5.6	4.8	4.6	4.7	4.5	3.9	4.7
9	1012.2	7	4	6	1	/		4.9	6.8	1.2	0.6	3.4	3.7	3.6	4.0	4.6	4.8
10	1019.1	0	0	3	5	/		1.5	6.2	-3.9	-1.1	2.2	2.6	2.4	2.8	4.3	5.1
11	1007.2	8	8	8	8	/		4.3	7.1	0.3	0.2	2.1	2.3	2.2	2.5	4.0	5.2
12	1014.0	8	8	8	8	/		6.9	10.9	4.4	3.3	3.6	3.6	3.6	3.6	4.0	5.2
13	1011.5	8	8	8	8	/		11.4	12.8	10.5	8.1	5.5	5.2	5.3	5.1	4.3	5.1
14	1012.7	8	7	7	7	/		11.2	13.2	9.3	7.8	7.9	7.5	7.7	7.4	5.3	5.2
15	1020.3	8	6	7	6	/		9.5	10.5	8.8	6.9	7.1	7.1	7.1	7.2	6.3	5.5
16	1022.4	7	1	6	1	/		9.8	13.2	5.7	4.6	6.5	6.6	6.6	6.8	6.5	5.9
17	1021.7	0	8	8	7	/		8.5	10.0	7.2	5.5	6.2	6.3	6.2	6.4	6.5	6.2
18	1024.6	7	7	8	6	/		6.7	8.8	4.8	4.6	6.3	6.4	6.4	6.5	6.5	6.3
19	1031.3	8	8	5	7	/		4.6	6.1	3.2	2.5	4.9	5.2	5.1	5.4	6.4	6.4
20	1032.4	8	4	1	2	/		3.0	5.5	-0.2	-0.2	3.5	3.8	3.7	4.1	5.8	6.5
21	1036.5	8	8	8	8	/		1.1	3.7	-1.3	-0.8	2.8	3.1	3.0	3.4	5.2	6.4
22	1032.6	6	8	8	7	/		5.0	6.5	3.5	2.9	3.5	3.7	3.6	3.9	5.1	6.2
23	1029.2	8	8	8	7	/		5.0	6.9	2.6	2.6	4.3	4.3	4.3	4.4	5.1	6.1
24	1026.7	8	8	8	7	/		5.6	6.9	4.4	3.9	4.9	4.9	4.9	4.9	5.2	6.1
25	1014.9	8	8	8	7	/		5.2	7.1	4.0	3.4	4.8	4.9	4.8	5.0	5.4	6.1
26	1010.4	8	8	6	7	/		3.5	6.0	0.4	0.0	4.3	4.5	4.5	4.7	5.5	6.1
27	1020.2	8	4	7	1	/		0.4	2.7	-2.1	-2.4	2.5	2.9	2.7	3.2	5.1	6.1
28	1022.9	0	0	0	1	/		-1.4	1.7	-3.5	-3.4	1.4	1.7	1.6	2.0	4.4	6.0
29	1020.9	0	1	1	1	/		-1.7	2.2	-4.1	-3.7	0.9	1.2	1.1	1.4	3.8	5.8
30	1022.0	1	2	5	7	/		-2.9	0.5	-6.5	-5.4	0.7	0.9	0.8	1.1	3.4	5.5
31	1026.0	8	7	7	8	/		-2.6	-1.7	-3.6	-2.2	0.7	0.9	0.8	1.1	3.1	5.3
M	1019.0					/		4.3	6.8	2.0							

Bewolking : 9 = Bovenlucht niet zichtbaar

/ = Ontbrekend gegeven

/ = Ontbrekend gegeven

Bewolking : 9 = Bovenlucht niet zichtbaar

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" I 14m Periode 00-24 h W.T. januari 2011

Rel.Vocht.		Mist			Neerslag				Dag met				Wind						
%		Duur in minuten			Duur		* (cm)		^		R		Snelheid (km/h) en richting						
Gem.	Min.	<1000m	<500m	<200m	l/m²	h min	%	6h	18h	*	^	R	Gem.	Max.	0h	6h	12h	18h	
1	88	78	263	53	-	1.3	4 48	20	/	-	-	-	11	22	W	SW	W	W	NNW
2	83	73	-	-	-	1.0	1 11	5	/	-	-	-	11	32	NW	NW	W	NNW	W
3	86	82	-	-	-	<0.1	0 39	3	/	X	-	-	7	22	W	W	W	WSW	W
4	77	67	-	-	-	-	-	-	/	-	-	-	14	29	SSW	SW	SSW	SSW	SSW
5	71	59	-	-	-	<0.1	0 25	2	/	-	-	-	14	32	SSW	S	S	SSE	SE
6	89	83	-	-	-	10.1	16 13	68	/	-	-	-	14	54	WSW	S	SW	SSE	SSW
7	89	81	-	-	-	5.0	5 57	25	/	-	-	-	11	29	SSW	W	E	ESE	SSW
8	79	68	-	-	-	2.6	5 26	23	/	-	-	-	22	68	SW	SSW	S	SSW	SW
9	76	64	-	-	-	-	-	-	/	-	-	-	11	32	WSW	W	SW	W	WSW
10	86	73	-	-	-	-	-	-	/	-	-	-	11	29	SSE	SSW	ESE	SSE	SSE
11	85	75	-	-	-	1.7	8 31	35	/	-	-	-	18	54	NW	SSE	SSE	SW	W
12	88	80	-	-	-	16.5	16 14	68	/	-	-	-	18	40	SW	NW	SSW	SSW	SW
13	90	87	-	-	-	13.4	16 39	69	/	-	-	-	22	50	WSW	WSW	WSW	WSW	WSW
14	84	75	-	-	-	2.6	4 52	20	/	-	-	-	25	50	SW	WSW	SW	WSW	WSW
15	79	72	-	-	-	<0.1	0 50	3	/	-	-	-	22	50	SSW	WSW	SW	SSW	SSW
16	78	64	-	-	-	-	-	-	/	-	-	-	18	43	SSW	SSW	SSW	SSW	S
17	84	78	-	-	-	0.2	2 59	12	/	-	-	-	14	40	SW	SSW	SSW	SSW	SSW
18	87	80	-	-	-	8.5	6 26	27	/	-	-	-	11	32	SW	WSW	SSW	N	NNW
19	85	76	-	-	-	1.3	4 35	19	/	-	-	-	14	36	NNW	NNW	NNW	NNW	NNW
20	80	63	-	-	-	<0.1	0 25	2	/	-	-	-	11	32	NNE	N	N	N	NNE
21	88	80	-	-	-	-	-	-	/	-	-	-	7	22	NNW	NNE	ENE	SSE	NNW
22	83	74	-	-	-	0.1	4 47	20	/	-	-	-	11	29	NNE	N	NNW	NNE	NNW
23	87	80	-	-	-	0.7	4 53	20	/	-	-	-	11	29	NNE	N	NNW	NNW	NNW
24	85	77	-	-	-	0.4	2 36	11	/	-	-	-	14	32	NNW	NNE	NNW	NNW	NNW
25	86	72	-	-	-	8.0	8 33	36	/	-	-	-	18	43	WNW	W	W	NW	NNW
26	84	68	-	-	-	0.5	4 07	17	/	-	-	-	11	29	NE	SW	SE	E	NE
27	77	53	-	-	-	-	-	-	/	-	-	-	18	36	NE	NE	NE	NE	NE
28	75	63	-	-	-	-	-	-	/	-	-	-	14	32	ENE	NE	NE	E	NE
29	81	61	-	-	-	-	-	-	/	-	-	-	11	22	NE	ENE	NE	ENE	NNW
30	86	78	-	-	-	-	-	-	/	-	-	-	11	25	NE	ENE	ENE	ENE	NNW
31	85	80	-	-	-	-	-	-	/	-	-	-	4	18	NNE	NNE	N	ESE	ENE
M	83		263	53	0	73.9	121 06			1	0	0	14						

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. februari 2011

	Druk hPa	Bewolking Octas				Zon Duur h min	Lucht			Gras		Temperaturen °C					
		Gem.	0h	6	12	18	Gem.	Max.	Min.	Gras Min.	Max.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1027.1		8	8	8	8	-1.4	1.0	-4.2	-2.2	0.7	0.8	0.8	0.8	1.0	2.9	5.1
2	1028.1		8	8	8	8	2.9	4.8	1.0	0.7	0.7	0.7	0.9	0.8	1.1	2.8	4.9
3	1025.3		8	8	7	3	6.0	9.2	4.2	3.1	2.2	2.2	2.2	2.1	2.2	2.9	4.8
4	1020.1		4	6	8	8	8.9	11.2	5.7	4.4	3.5	3.5	3.5	3.5	3.5	3.5	4.8
5	1021.2		8	8	8	8	10.9	11.4	10.1	8.5	5.4	5.4	5.1	5.2	5.1	4.1	4.9
6	1023.9		8	8	8	8	10.4	11.1	8.9	7.4	6.6	6.2	6.4	6.4	6.3	4.8	5.0
7	1018.6		8	8	8	1	9.0	10.9	6.9	6.2	6.2	6.2	6.2	6.2	6.2	5.5	5.3
8	1023.3		8	1	1	2	6.2	10.0	-0.8	-0.1	4.6	5.0	5.0	5.2	5.2	5.8	5.5
9	1021.8		0	1	4	6	3.9	10.4	-2.4	-0.8	3.4	3.7	3.7	3.7	4.0	5.5	5.8
10	1016.2		0	8	7	8	7.8	11.1	5.1	4.4	4.8	4.8	4.8	4.8	4.9	5.4	5.9
11	1012.9		8	8	8	7	10.4	11.4	8.6	8.1	6.8	6.8	6.5	6.6	6.4	5.6	5.9
12	1012.6		8	7	7	6	9.3	12.7	5.7	5.5	7.2	7.2	7.3	7.3	7.3	6.2	6.0
13	1009.3		0	2	7	7	5.8	8.4	0.9	2.8	5.4	5.4	5.7	5.6	5.9	6.6	6.2
14	1004.9		3	7	8	7	6.5	8.9	2.3	3.2	5.7	5.7	5.8	5.7	5.9	6.4	6.4
15	998.4		0	3	7	7	5.1	8.7	0.0	1.4	4.3	4.3	4.6	4.5	4.8	6.2	6.5
16	998.5		8	2	4	1	6.4	10.3	1.7	2.2	4.8	4.8	5.1	5.0	5.3	6.1	6.5
17	1004.6		0	1	1	3	4.8	10.6	0.5	0.8	3.7	3.7	4.0	3.9	4.2	5.9	6.5
18	1014.7		8	8	7	8	1.9	2.7	0.9	1.3	4.0	4.0	4.2	4.1	4.3	5.6	6.4
19	1014.7		8	8	7	8	3.9	6.2	2.0	2.3	3.8	3.8	4.0	3.9	4.2	5.4	6.3
20	1015.3		8	8	8	8	2.7	4.0	0.8	1.0	3.9	3.9	4.1	4.1	4.3	5.4	6.3
21	1016.3		8	7	8	8	0.6	2.6	-2.5	-1.5	2.7	2.7	3.1	3.0	3.4	5.1	6.2
22	1018.4		0	0	3	5	-0.9	4.1	-4.5	-3.3	1.6	1.6	1.9	1.9	2.3	4.5	6.1
23	1022.1		0	5	8	8	0.7	4.1	-3.7	-2.0	1.4	1.4	1.6	1.6	1.9	4.1	5.9
24	1022.5		8	8	8	7	6.6	10.2	2.3	2.2	2.3	2.3	2.4	2.3	2.5	4.1	5.7
25	1026.7		5	8	8	8	8.4	9.3	7.0	5.8	5.0	5.0	4.8	4.9	4.8	4.3	5.6
26	1014.4		8	7	7	7	7.9	9.9	6.2	6.0	6.4	6.4	6.2	6.3	6.2	5.1	5.6
27	1016.0		8	7	6	7	6.2	7.2	5.6	4.9	5.9	5.9	6.0	5.9	6.0	5.8	5.8
28	1025.7		8	8	8	8	3.4	6.0	2.2	3.1	4.8	4.8	5.0	5.0	5.2	5.8	6.0
M	1016.9		/				5.5	8.2	2.5								

Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE (RLW) 4° 27' 11" E 51° 11' 32" O 14m Periode 00-24 h W.T. februari 2011

	Rel. Vocht.		Mist		Neerslag				Dag met			Wind						
	%	Min.	Duur in minuten			l/m²	Duur		*	^	R	Gem.	Snelheid (km/h) en richting		0h	6h	12h	18h
			<1000m	<500m	<200m		h min	%					6h	18h				
1	86	79	-	-	-	0.8	4 06	17	/	-	-	14	29	SW	WSW	SW	SSW	SSW
2	89	83	364	-	-	0.1	1 57	8	/	-	-	18	43	SW	SSW	SSW	SSW	SSW
3	84	64	-	-	-	0.7	3 33	15	/	X	-	18	43	SW	WSW	WSW	SSW	SSW
4	78	67	-	-	-	0.1	0 30	2	/	-	-	32	72	WSW	SW	SW	WSW	WSW
5	78	69	-	-	-	0.1	6 40	28	/	-	-	32	76	WSW	WSW	WSW	SW	WSW
6	70	64	-	-	-	-	-	-	/	-	-	29	61	WSW	WSW	WSW	SW	WSW
7	71	62	-	-	-	<0.1	1 01	4	/	-	-	22	43	SW	SW	SW	SW	SW
8	71	50	-	-	-	-	-	-	/	-	-	7	22	W	WNW	WNW	WSW	SSE
9	83	59	14	4	-	-	-	-	/	-	-	7	22	SSW	E	E	SE	S
10	85	75	-	-	-	6.4	11 00	46	/	-	-	18	36	SW	S	SW	SSW	SSW
11	90	85	-	-	-	6.2	14 44	61	/	-	-	14	36	W	SW	W	W	W
12	86	68	-	-	-	3.4	7 59	33	/	-	-	11	36	SW	E	SSE	SW	WSW
13	83	69	-	-	-	-	-	-	/	-	-	14	29	SSE	SW	S	SSE	SE
14	82	70	-	-	-	1.5	3 38	15	/	-	-	11	22	SE	SE	SSE	SW	SSE
15	84	67	-	-	-	1.7	2 49	12	/	-	-	14	36	S	SSE	SSE	SSE	SE
16	79	63	-	-	-	-	-	-	/	-	-	11	29	SSW	S	S	SE	NE
17	79	52	178	92	9	-	-	-	/	-	-	11	29	ENE	E	NE	E	NNE
18	81	76	-	-	-	-	-	-	/	-	-	11	29	E	E	NNE	ENE	E
19	79	66	-	-	-	1.1	7 31	31	/	-	-	14	32	SE	E	ESE	SE	E
20	82	71	-	-	-	0.8	8 27	35	/	X	-	14	29	ENE	E	E	E	ENE
21	74	68	-	-	-	<0.1	1 28	6	/	X	-	14	29	E	ENE	E	ESE	E
22	71	52	-	-	-	-	-	-	/	-	-	11	22	ESE	ENE	ENE	ESE	E
23	74	51	-	-	-	4.3	8 11	34	/	X	-	14	32	SSE	ESE	SSE	S	SSE
24	90	85	35	11	-	2.4	6 12	26	/	-	-	7	29	SSW	SSE	SW	WSW	WNW
25	89	84	16	1	-	0.5	2 12	9	/	-	-	11	25	S	SW	SW	SW	S
26	88	75	-	-	-	8.4	10 08	42	/	-	-	18	50	WNW	SSW	S	WNW	WNW
27	82	73	-	-	-	1.2	6 17	26	/	-	-	25	50	WNW	WNW	WNW	WNW	WNW
28	86	81	-	-	-	1.4	6 24	27	/	-	-	11	40	NW	NW	N	ENE	NE
M	81		607	108	9	41.1	114 47			4	0	16						

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

DEURNE (RLW)		4° 27' 11" E		51° 11' 32" I		14m		Periode 00-24 h W.T.		maart 2011									
	Druk hPa	Bewolking Octas					Zon		Temperaturen °C										
		Gem.	0h	6	12	18	Duur	h min	Gem.	Max.	Min.	Gras	Minimum onder naakte grond						
1	1034.7		5	7	4	2	/		3.8	6.5	2.7	2.3	4.5	4.7	4.6	4.8	5.6	6.1	
2	1033.6		4	3	1	4	/		3.6	9.4	-0.4	0.1	3.6	3.9	3.8	4.1	5.5	6.1	
3	1032.4		0	0	0	0	/		2.3	7.8	-1.6	-1.1	2.8	3.1	3.1	3.4	5.2	6.1	
4	1031.6		0	0	0	1	/		2.4	7.7	-1.8	-1.1	2.4	2.7	2.7	3.0	4.9	6.0	
5	1029.3		0	7	7	8	/		2.7	6.7	-1.5	-0.6	2.8	3.1	3.1	3.4	4.9	5.9	
6	1031.0		0	1	3	1	/		3.3	7.3	-0.3	-0.1	3.0	3.3	3.2	3.5	4.9	5.9	
7	1031.0		0	1	1	0	/		2.4	8.2	-2.6	-1.7	2.3	2.7	2.6	3.0	4.8	5.8	
8	1022.9		0	0	0	0	/		4.9	11.7	-4.1	-2.8	1.8	2.2	2.1	2.5	4.6	5.8	
9	1016.6		0	8	8	7	/		7.8	10.0	5.7	3.6	3.8	3.9	3.9	4.0	4.7	5.7	
10	1014.3		7	5	7	7	/		7.8	10.0	4.8	3.9	4.4	4.5	4.5	4.7	5.0	5.7	
11	1016.0		8	4	5	6	/		9.0	11.7	6.6	5.3	5.6	5.6	5.6	5.6	5.3	5.8	
12	1007.1		3	7	7	7	/		8.7	15.1	1.6	2.5	5.1	5.3	5.3	5.5	5.8	5.9	
13	1004.1		8	8	8	7	/		10.7	13.0	8.9	8.0	7.4	7.3	7.3	7.3	6.1	6.0	
14	1014.4		8	7	4	7	/		11.2	14.5	8.1	7.4	7.9	7.9	7.9	7.9	6.8	6.2	
15	1015.0		0	2	3	3	/		11.3	16.5	6.3	5.4	7.4	7.5	7.4	7.6	7.3	6.5	
16	1010.3		0	1	6	6	/		8.8	11.3	5.5	6.0	7.9	8.0	8.0	8.1	7.6	6.7	
17	1012.7		8	6	7	8	/		5.4	6.7	4.7	5.4	7.5	7.6	7.6	7.7	7.8	6.9	
18	1022.2		8	7	7	8	/		6.8	9.0	5.1	5.2	7.2	7.3	7.2	7.3	7.6	7.1	
19	1032.5		8	8	0	0	/		6.6	10.7	0.9	1.9	6.8	7.0	6.9	7.1	7.5	7.3	
20	1034.3		0	6	7	1	/		4.7	11.3	-2.1	0.4	5.2	5.6	5.5	5.9	7.4	7.3	
21	1035.2		0	2	1	4	/		6.9	14.9	-2.3	0.6	4.8	5.2	5.1	5.6	7.2	7.3	
22	1037.7		0	3	3	1	/		9.1	15.7	-0.4	1.3	5.5	5.9	5.8	6.2	7.3	7.3	
23	1039.5		0	1	2	3	/		10.2	16.5	2.0	2.8	6.6	6.9	6.8	7.1	7.6	7.4	
24	1034.3		0	4	1	6	/		11.1	17.1	4.9	4.0	7.4	7.7	7.6	7.9	7.9	7.5	
25	1020.7		0	5	5	7	/		11.0	17.4	4.6	4.5	7.9	8.1	8.1	8.3	8.3	7.6	
26	1017.0		8	5	7	7	/		7.4	10.9	3.2	4.6	8.3	8.5	8.5	8.7	8.7	7.8	
27	1014.2		8	8	0	0	/		9.1	14.7	5.1	5.5	8.3	8.4	8.4	8.5	8.7	8.0	
28	1016.3		8	7	1	1	/		8.0	12.7	2.2	3.8	8.3	8.6	8.5	8.7	8.9	8.1	
29	1015.3		0	1	0	2	/		8.0	16.1	0.1	2.3	7.4	7.8	7.7	8.1	8.9	8.3	
30	1013.9		0	7	8	8	/		9.9	14.0	3.0	4.5	8.4	8.6	8.6	8.8	9.1	8.4	
31	1014.6		7	8	8	7	/		12.4	14.8	10.5	9.7	9.9	9.8	9.8	9.9	9.2	8.5	
M	1022.7						/		7.3	11.9	2.6								
Bewolking : 9 = Bovenlucht niet zichtbaar / = Ontbrekend gegeven																			

/ = Ontbrekend gegeven

Bewolking : 9 = Bovenlucht niet zichtbaar

DEURNE (RLW)

4° 27' 11" E

51° 11' 32" O

14m

Periode 00-24 h W.T.

maart 2011

	Rel. Vocht. %	Mist			Neerslag				Wind																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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1	83	74	-	-	-	-	/	/	-	-	-	-	18	36	NE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	

* = Sneeuw ^ = Hagel R = Onweer <0.1 : Neerslag te wijten aan mist of dauw

Annex D

Overview of maintenance - dredging activities

Dredging and dumping volumes [10^3 m^3] from April '10 till March '11

Dredging locations									
	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22
<i>Drempel van Vlissingen</i>	-	-	-	-	297.429	214.094	-	-	-
<i>Drempel van Borssele</i>	6.827	-	-	-	-	60.264	212.365	186.710	91.757
<i>Pas van Terneuzen</i>	-	-	-	-	-	-	-	-	72.673
<i>Put van Terneuzen</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Walsoorden</i>	-	-	-	-	-	-	-	-	-
<i>Overloop Hansweert</i>	-	-	-	10.860	-	-	-	-	-
<i>Drempel van Hansweert</i>	13.617	-	31.429	31.541	-	-	20.288	149.711	119.905
<i>Overloop van Valkenisse (B 56-62)</i>	-	-	170.058	74.046	78.169	142.698	42.555	159.469	217.754
<i>Drempel van Valkenisse</i>	-	-	-	-	-	-	139.190	-	-
<i>Drempel van Bath</i>	29.124	138.173	150.704	9.524	83.763	82.145	6.877	-	-
<i>Nauw van Bath (B 75)</i>	95.545	29.117	40.302	32.012	-	-	-	-	-
<i>Vaarwater Bath (B72-76)</i>	-	-	-	20.493	-	-	-	-	9.490
<i>Noordzeeterminal</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Zandvliet</i>	-	-	64.134	52.634	6.980	-	-	-	-
<i>Zandvliet+Berendrecht sluis</i>	72.074	61.702	3.297	-	-	-	-	-	-
<i>Drempel van Frederik</i>	2.313	-	801	-	55.427	2.233	-	-	-
<i>Drempel van Lillo</i>	81.844	12.681	-	-	-	-	-	-	-
<i>Lillo vaarwater plaat</i>	1.524	-	3.205	-	-	-	-	-	-
<i>Toeg Boud+Calew sluis</i>	-	-	-	-	-	-	-	-	-
<i>Deurganckdok</i>	157.709	129.721	66.682	71.981	15.257	-	-	-	-

Dredging locations									
	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22
<i>De Parel</i>	-	58.328	-	-	-	-	-	-	-
<i>Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Kallo sluis</i>	-	30.842	55.362	-	-	-	-	-	-
<i>Krankeloon</i>	-	-	-	-	-	-	-	-	-
<i>Kaaian 23-27</i>	-	-	-	-	-	-	-	-	-

Dumping locations									
	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22
<i>Hoge Platen (HP1)-storten</i>	-	-	-	-	-	274.358	219.049	192.895	177.491
<i>Hoge Platen (HP1)- sproeien</i>	-	-	-	-	-	138.852	117.099	153.284	32.781
<i>Hoge Platen (HP3) - storten</i>	-	128.329	2.506	-	328.103	3.846	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	124.669	38.961	146.374	58.662	47.495	-	-	-	-
<i>SN 11</i>	-	-	-	-	-	-	-	-	-
<i>Spijkerplaat</i>	-	-	-	-	-	-	-	-	-
<i>SN 31</i>	-	-	-	-	-	-	-	-	-
<i>Everingen</i>	-	-	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	-	-	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	28.601	7.131	-	-	-	-	-
<i>Rug van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>SH41</i>	-	-	-	3.340	-	32.321	41.453	86.305	54.053
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van Walsoorden - storten</i>	20.444	-	215.012	109.343	83.763	49.824	43.674	63.406	75.342
<i>Plaat van walsoorden - sproeien</i>	-	-	-	-	-	-	-	-	171.912

Dumping locations									
	<i>Week 14</i>	<i>Week 15</i>	<i>Week 16</i>	<i>Week 17</i>	<i>Week 18</i>	<i>Week 19</i>	<i>Week 20</i>	<i>Week 21</i>	<i>Week 22</i>
<i>SN 51</i>	-	-	-	-	-	-	-	-	-
<i>SH61</i>	-	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	85.681	71.009	66.124	52.634	62.407	2.233	-	-	-
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	-	-	-
<i>Oosterweel</i>	115.251	115.952	62.042	38.188	7.015	-	-	-	-
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	114.532	106.313	65.315	33.793	8.242	-	-	-	-
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	-	-	-	-	-	-	-

Dredging locations									
	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31
<i>Drempel van Vlissingen</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Borssele</i>	-	-	-	-	-	-	-	151.205	9.659
<i>Pas van Terneuzen</i>	33.376	234.388	167.645	11.486	-	-	-	-	-
<i>Put van Terneuzen</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Walsoorden</i>	98.076	76.575	132.655	23.277	-	-	33.405	23.326	-
<i>Overloop Hansweert</i>	-	-	-	-	-	-	33.678	3.503	-
<i>Drempel van Hansweert</i>	281.307	321.408	356.615	349.259	368.103	290.674	18.283	167.724	5.591
<i>Overloop van Valkenisse (B 56-62)</i>	90.945	-	-	-	-	-	-	-	-
<i>Drempel van Valkenisse</i>	-	35.729	-	62.962	68.286	-	43.818	7.868	46.899
<i>Drempel van Bath</i>	-	-	-	-	-	-	40.083	59.749	14.415
<i>Nauw van Bath (B 75)</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Bath (B72-76)</i>	-	-	-	-	-	-	75.764	3.990	39.365
<i>Noordzeeterminal</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Zandvliet</i>	-	-	-	72.515	54.546	69.507	3.603	56.032	10.964
<i>Zandvliet+Berendrecht sluis</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Frederik</i>	22.087	39.504	38.456	94.800	88.557	63.240	67.769	23.746	22.332
<i>Drempel van Lillo</i>	-	-	-	-	-	50.430	-	-	-
<i>Lillo vaarwater plaat</i>	-	-	-	-	-	-	-	-	-
<i>Toeg Boud+Calew sluis</i>	-	-	-	-	-	-	-	-	-
<i>Deurganckdok</i>	-	-	-	-	-	-	75.669	22.907	-
<i>De Parel</i>	-	-	-	-	-	-	-	-	-

Dredging locations									
	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31
<i>Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Kallo sluis</i>	-	-	-	-	-	-	-	-	-
<i>Krankeloon</i>	-	-	-	-	10.251	-	-	-	-
<i>Kaaian 23-27</i>	-	-	-	-	-	-	-	-	-

Dumping locations									
	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31
<i>Hoge Platen (HP1)-storten</i>	33.376	234.388	167.645	11.486	-	-	-	-	-
<i>Hoge Platen (HP1)- sproeien</i>	-	-	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - storten</i>	-	-	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 11</i>	-	-	-	-	-	-	-	-	-
<i>Spijkerplaat</i>	-	-	-	-	-	-	-	-	-
<i>SN 31</i>	-	-	-	-	-	-	-	151.205	-
<i>Everingen</i>	-	-	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossenisse</i>	-	-	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>Rug van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>SH41</i>	57.186	58.284	66.259	45.388	36.619	4.504	33678	3.503	-
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-	-	-
<i>Plaats van Walsoorden - storten</i>	113.494	67.119	66.396	53.798	54.309	8.866	211353	129.387	50.630
<i>Plaats van walsoorden - sproeien</i>	299.648	308.309	356.615	336.312	345.461	277.304	-	-	-
<i>SN 51</i>	-	-	-	-	-	-	-	133.270	65.299

Dumping locations									
	<i>Week 23</i>	<i>Week 24</i>	<i>Week 25</i>	<i>Week 26</i>	<i>Week 27</i>	<i>Week 28</i>	<i>Week 29</i>	<i>Week 30</i>	<i>Week 31</i>
<i>SH61</i>	-	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	-	-	-	72.515	69.188	119.937	3.603	56.032	10.964
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	-	-	-
<i>Oosterweel</i>	10.930	19.913	18.743	45.855	42.800	37.846	71.705	15.160	10.118
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	11.157	19.591	19.713	48.945	41.366	25.394	71.733	31.493	12.214
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	-	-	-	-	-	-	-

Dredging locations									
	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
<i>Drempel van Vlissingen</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Borssele</i>	-	-	-	4.645	186.497	234.739	46.488	-	-
<i>Pas van Terneuzen</i>	-	-	-	-	-	-	107.502	130.906	61.497
<i>Put van Terneuzen</i>	-	-	-	-	-	-	11.731	19.694	-
<i>Gat van Ossensisse</i>	-	48.582	1.247	-	-	-	-	-	95.460
<i>Drempel van Walsoorden</i>	-	-	-	-	-	-	-	-	-
<i>Overloop Hansweert</i>	-	-	-	-	-	99.586	-	197.327	216.011
<i>Drempel van Hansweert</i>	-	-	-	-	-	-	178.845	-	6.602
<i>Overloop van Valkenisse (B 56-62)</i>	-	4.014	-	-	-	-	-	-	-
<i>Drempel van Valkenisse</i>	29.668	-	-	-	-	53.286	11.552	2.170	39.412
<i>Drempel van Bath</i>	-	2.734	581	40.399	-	-	-	-	-
<i>Nauw van Bath (B 75)</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Bath (B72-76)</i>	2.793	-	-	-	-	-	-	-	-
<i>Noordzeeterminal</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	5.533	-	-	-	1.845	-	-	-	-
<i>Drempel van Zandvliet</i>	-	3.366	-	-	-	-	-	85.289	104.896
<i>Zandvliet+Berendrecht sluis</i>	10.255	119.862	-	-	25.485	1.700	-	-	-
<i>Drempel van Frederik</i>	33.282	12.435	154.952	24.050	-	-	-	-	-
<i>Drempel van Lillo</i>	-	-	-	-	-	-	-	-	-
<i>Lillo vaarwater plaat</i>	-	-	-	-	-	-	-	-	-
<i>Toeg Boud+Calew sluis</i>	-	-	-	-	-	-	-	-	-
<i>Deurganckdok</i>	-	-	-	39.282	-	-	-	-	-
<i>De Parel</i>	-	-	-	60.207	3.914	-	-	-	-

Dredging locations									
	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
<i>Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Kallo sluis</i>	2.139	-	44.012	2.175	-	-	68.232	9.035	-
<i>Krankeloon</i>	-	-	-	-	-	-	-	-	-
<i>Kaaian 23-27</i>	-	-	-	-	-	-	-	-	-

Dumping locations									
	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
<i>Hoge Platen (HP1)-storten</i>	-	-	-	-	-	-	-	6.530	-
<i>Hoge Platen (HP1)- sproeien</i>	-	-	-	-	-	99.586	178.845	190.797	216.011
<i>Hoge Platen (HP3) - storten</i>	-	-	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 11</i>	-	-	-	-	-	-	-	-	-
<i>Spijkerplaat</i>	-	-	-	-	-	-	-	-	-
<i>SN 31</i>	-	48.582	1.247	4.645	186.497	-	165.721	150.600	156.957
<i>Everingen</i>	-	-	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossenisse</i>	-	-	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>Rug van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>SH41</i>	-	-	-	-	-	-	-	-	8.264
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van Walsoorden - storten</i>	13.543	6.748	581	40.399	-	-	-	-	-
<i>Plaat van walsoorden - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 51</i>	18.918	-	-	-	-	288.025	11.552	2.170	37.750

Dumping locations									
	<i>Week 32</i>	<i>Week 33</i>	<i>Week 34</i>	<i>Week 35</i>	<i>Week 36</i>	<i>Week 37</i>	<i>Week 38</i>	<i>Week 39</i>	<i>Week 40</i>
<i>SH61</i>	-	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	5.533	3.366	-	60.207	5.759	-	-	66.376	84.806
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	-	-	-
<i>Oosterweel</i>	21.945	67.409	100.412	33.680	14.386	436	35.076	14.136	10.247
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	23.731	64.888	98.552	31.827	11.099	1.264	33.156	13.812	9.843
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	-	-	-	-	-	-	-

Dredging locations									
	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	Week 48	Week 49
<i>Drempel van Vlissingen</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Borssele</i>	-	-	-	-	-	-	-	-	110.066
<i>Pas van Terneuzen</i>	-	-	-	8.645	40.668	4.443	-	-	-
<i>Put van Terneuzen</i>	206.102	-	-	-	6.724	25.905	192.902	180.334	12.970
<i>Gat van Ossensisse</i>	14.927	12.691	-	-	44.037	156.493	30.862	-	24.930
<i>Drempel van Walsoorden</i>	-	3.589	45.565	30.880	-	-	-	-	-
<i>Overloop Hansweert</i>	19.732	6.031	21.581	-	-	-	-	12.178	26.587
<i>Drempel van Hansweert</i>	68.810	109.272	4.538	-	-	53.343	-	-	27.516
<i>Overloop van Valkenisse (B 56-62)</i>	-	-	-	8.989	-	20.064	-	42.780	80.209
<i>Drempel van Valkenisse</i>	55.901	3.793	40.369	78.129	164.900	77.482	-	-	-
<i>Drempel van Bath</i>	-	-	112.479	107.575	38.455	53.207	33.871	40.731	-
<i>Nauw van Bath (B 75)</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Bath (B72-76)</i>	-	-	-	-	-	-	-	-	-
<i>Noordzeeterminal</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Zandvliet</i>	-	62.435	57.853	56.338	111.126	-	14.061	41.681	-
<i>Zandvliet+Berendrecht sluis</i>	-	-	-	-	-	8.771	-	-	-
<i>Drempel van Frederik</i>	-	-	60.417	62.081	52.549	16.329	-	10.981	2.186
<i>Drempel van Lillo</i>	-	-	-	-	12.979	5.152	-	-	-
<i>Lillo vaarwater plaat</i>	-	-	-	-	-	30.199	73.404	76.252	58.711
<i>Toeg Boud+Calew sluis</i>	-	-	-	-	-	-	-	-	-
<i>Deurganckdok</i>	-	-	-	-	-	-	2.279	-	5.732
<i>De Parel</i>	-	-	-	-	-	-	-	-	-

Dredging locations									
	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	Week 48	Week 49
<i>Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Kallo sluis</i>	-	-	-	-	-	-	-	-	-
<i>Krankeloon</i>	-	-	-	-	-	-	-	-	-
<i>Kaaian 23-27</i>	-	-	-	-	-	-	-	-	-

Dumping locations									
	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	Week 48	Week 49
<i>Hoge Platen (HP1)-storten</i>	37	-	-	-	50.761	13.027	-	25.086	-
<i>Hoge Platen (HP1)- sproeien</i>	225.797	-	-	-	-	169.371	223.764	167.426	51.415
<i>Hoge Platen (HP3) - storten</i>	-	-	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 11</i>	-	-	-	8.645	40.668	4.443	-	-	110.066
<i>Spijkerplaat</i>	-	-	-	-	-	-	-	-	-
<i>SN 31</i>	-	-	-	-	-	-	-	-	-
<i>Everingen</i>	-	-	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossenisse</i>	-	-	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>Rug van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>SH41</i>	41.442	57334	26.119	4.990	-	-	-	-	13072
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van Walsoorden - storten</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van walsoorden - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 51</i>	98.196	78.042	45.565	113.008	164.900	204.096	33.871	83.511	107.725

Dumping locations									
	<i>Week 41</i>	<i>Week 42</i>	<i>Week 43</i>	<i>Week 44</i>	<i>Week 45</i>	<i>Week 46</i>	<i>Week 47</i>	<i>Week 48</i>	<i>Week 49</i>
<i>SH61</i>	-	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	-	62.435	29.640	5.171	38.735	13.235	14.061	63.243	53.403
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	766	-	-
<i>Oosterweel</i>	-	-	15.602	27.809	5.994	22.351	37.195	33.012	5.973
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	-	-	26.522	29.101	20.799	24.865	37.722	32.659	7.253
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	199.354	163.913	149.581	-	-	-	-

Dredging locations									
	Week 50	Week 51	Week 52	Week 01	Week 02	Week 03	Week 04	Week 05	Week 06
<i>Drempel van Vlissingen</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Borssele</i>	136.534	53.453	-	-	-	-	-	-	-
<i>Pas van Terneuzen</i>	-	-	-	-	-	-	-	80.420	-
<i>Put van Terneuzen</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	106.211	39.043	-	-	-	-	-	-	-
<i>Drempel van Walsoorden</i>	-	-	-	17.825	40.364	44.552	38.685	29.632	10.900
<i>Overloop Hansweert</i>	10.883	-	-	-	-	-	-	-	-
<i>Drempel van Hansweert</i>	63.838	43.703	-	-	-	-	-	-	-
<i>Overloop van Valkenisse (B 56-62)</i>	43.611	-	-	-	103.947	-	-	20.983	55.765
<i>Drempel van Valkenisse</i>	-	-	-	-	-	-	130.089	13.177	-
<i>Drempel van Bath</i>	12.633	-	-	-	-	-	-	-	-
<i>Nauw van Bath (B 75)</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Bath (B72-76)</i>	6.309	-	-	-	-	-	-	-	-
<i>Noordzeeterminal</i>	-	-	-	1.721	4.485	22.087	19.774	113.301	18.434
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	-	-	-	-	-	-	-	-	-
<i>Drempel van Zandvliet</i>	-	-	-	-	-	-	-	-	-
<i>Zandvliet+Berendrecht sluis</i>	-	-	-	-	6.238	107.724	-	-	-
<i>Drempel van Frederik</i>	-	-	-	-	-	8.879	58.869	3.207	-
<i>Drempel van Lillo</i>	-	-	-	28.387	97.308	57.940	100.435	81.592	4.667
<i>Lillo vaarwater plaat</i>	-	-	-	-	-	-	-	-	-
<i>Toeg Boud+Calew sluis</i>	-	-	-	-	-	-	-	-	111.620
<i>Deurganckdok</i>	61.857	37.167	-	-	-	-	-	-	-
<i>De Parel</i>	-	-	-	-	-	-	-	-	2.035

Dredging locations									
	Week 50	Week 51	Week 52	Week 01	Week 02	Week 03	Week 04	Week 05	Week 06
<i>Ketelplaat</i>	-	-	-	-	-	-	-	20.210	68.044
<i>Kallo sluis</i>	-	-	-	-	-	-	-	-	-
<i>Krankeloon</i>	-	-	-	-	-	-	-	-	-
<i>Kaaïen 23-27</i>	-	-	-	-	-	-	12.880	6.390	38.372

Dumping locations									
	Week 50	Week 51	Week 52	Week 01	Week 02	Week 03	Week 04	Week 05	Week 06
<i>Hoge Platen (HP1)-storten</i>	-	3.788	-	11.485	32.759	18.987	26.263	17.037	7.227
<i>Hoge Platen (HP1)- sproeien</i>	106.211	35.255	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - storten</i>	-	-	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 11</i>	136.534	53.453	-	-	-	-	-	80.420	-
<i>Spijkerplaat</i>	-	-	-	-	-	-	-	-	-
<i>SN 31</i>	-	-	-	-	-	-	-	-	-
<i>Everingen</i>	-	-	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-	-	-
<i>Gat van Ossenisse</i>	-	-	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	-	-	-	-	-	-	-
<i>Rug van Baarland</i>	-	-	-	6.340	7.605	25.565	12.422	12.595	3.673
<i>SH41</i>	10883	-	-	-	-	-	-	-	-
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van Walsoorden - storten</i>	-	-	-	-	-	-	-	-	-
<i>Plaat van walsoorden - sproeien</i>	-	-	-	-	-	-	-	-	-
<i>SN 51</i>	126.391	43.703	-	1.721	108.432	22.087	-	20.983	55.765

Dumping locations									
	<i>Week 50</i>	<i>Week 51</i>	<i>Week 52</i>	<i>Week 01</i>	<i>Week 02</i>	<i>Week 03</i>	<i>Week 04</i>	<i>Week 05</i>	<i>Week 06</i>
<i>SH61</i>	-	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	-	-	-	-	-	107.724	-	22.589	112.938
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	-	-	-
<i>Oosterweel</i>	28.525	17.893	-	15.538	50.603	28.761	77.436	34.600	-
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	33.332	19.274	-	12.849	52.943	38.058	81.868	27.610	5.384
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	-	-	-	-	162.743	153.078	124.850

Dredging locations							
	Week 07	Week 08	Week 09	Week 10	Week 11	Week 12	Week 13
<i>Drempel van Vlissingen</i>	-	-	-	-	-	-	-
<i>Drempel van Borssele</i>	-	-	-	-	-	-	-
<i>Pas van Terneuzen</i>	-	47.257	6.476	-	-	-	-
<i>Put van Terneuzen</i>	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	-	-	-	-	-	-	-
<i>Drempel van Walsoorden</i>	69.662	64.889	30.650	38.944	228.313	10.854	-
<i>Overloop Hansweert</i>	-	-	-	-	-	-	-
<i>Drempel van Hansweert</i>	-	-	-	-	-	-	-
<i>Overloop van Valkenisse (B 56-62)</i>	3.914	-	-	-	90.247	97.814	6.426
<i>Drempel van Valkenisse</i>	-	-	68.512	42.666	-	-	-
<i>Drempel van Bath</i>	-	-	55.938	60.790	4.779	-	50.909
<i>Nauw van Bath (B 75)</i>	-	-	-	-	-	88.053	20.700
<i>Vaarwater Bath (B72-76)</i>	-	-	-	-	-	15.886	2.372
<i>Noordzeeterminal</i>	-	-	-	1.162	-	-	-
<i>Containerkaai noord</i>	-	24.458	15.657	26.447	-	-	-
<i>Containerkaai zuid</i>	-	-	-	-	-	-	-
<i>Vaarwater Oudendijk</i>	-	-	-	-	-	-	-
<i>Drempel van Zandvliet</i>	-	-	-	-	-	-	-
<i>Zandvliet+Berendrecht sluis</i>	-	-	-	-	-	-	19.543
<i>Drempel van Frederik</i>	-	-	-	-	-	13.888	886
<i>Drempel van Lillo</i>	-	-	-	58.324	-	10.335	100.369
<i>Lillo vaarwater plaat</i>	-	87.826	-	-	-	-	-
<i>Toeg Boud+Calew sluis</i>	5.142	-	-	-	-	-	-
<i>Deurganckdok</i>	50.736	853	-	-	-	-	-
<i>De Parel</i>	77.019	48.674	-	105.554	64.406	22.159	15.795

Dredging locations							
	Week 07	Week 08	Week 09	Week 10	Week 11	Week 12	Week 13
<i>Ketelplaat</i>	-	-	-	-	-	-	-
<i>Kallo sluis</i>	-	-	-	-	-	-	-
<i>Krankeloon</i>	-	-	65.291	-	-	-	-
<i>Kaaien 23-27</i>	-	-	-	-	-	-	-

Dumping locations							
	Week 07	Week 08	Week 09	Week 10	Week 11	Week 12	Week 13
<i>Hoge Platen (HP1)-storten</i>	52.353	46.094	23.149	28.862	2.495	-	-
<i>Hoge Platen (HP1)- sproeien</i>	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - storten</i>	-	-	-	-	-	-	-
<i>Hoge Platen (HP3) - sproeien</i>	-	-	-	-	-	-	-
<i>SN 11</i>	-	47.257	6.476	-	-	-	-
<i>Spijkerplaat</i>	-	-	-	-	-	-	-
<i>SN 31</i>	-	-	-	-	-	-	-
<i>Everingen</i>	-	-	-	-	-	-	-
<i>Ellewoutsdijk</i>	-	-	-	-	-	-	-
<i>Biezelingse Ham</i>	-	-	-	-	-	-	-
<i>Gat van Ossensisse</i>	-	-	-	-	-	-	-
<i>hoek van Baarland</i>	-	-	-	-	-	-	-
<i>Rug van Baarland</i>	17.309	18.795	7.501	10.082	23.481	17.124	20.757
<i>SH41</i>	-	-	-	-	221.737	10.854	-
<i>Schaar van Waarde</i>	-	-	-	-	-	-	-
<i>Plaat van Walsoorden - storten</i>	-	-	-	-	-	-	-
<i>Plaat van walsoorden - sproeien</i>	-	-	-	-	-	-	-
<i>SN 51</i>	3.914	-	124.450	103.456	75.626	138.633	59.650

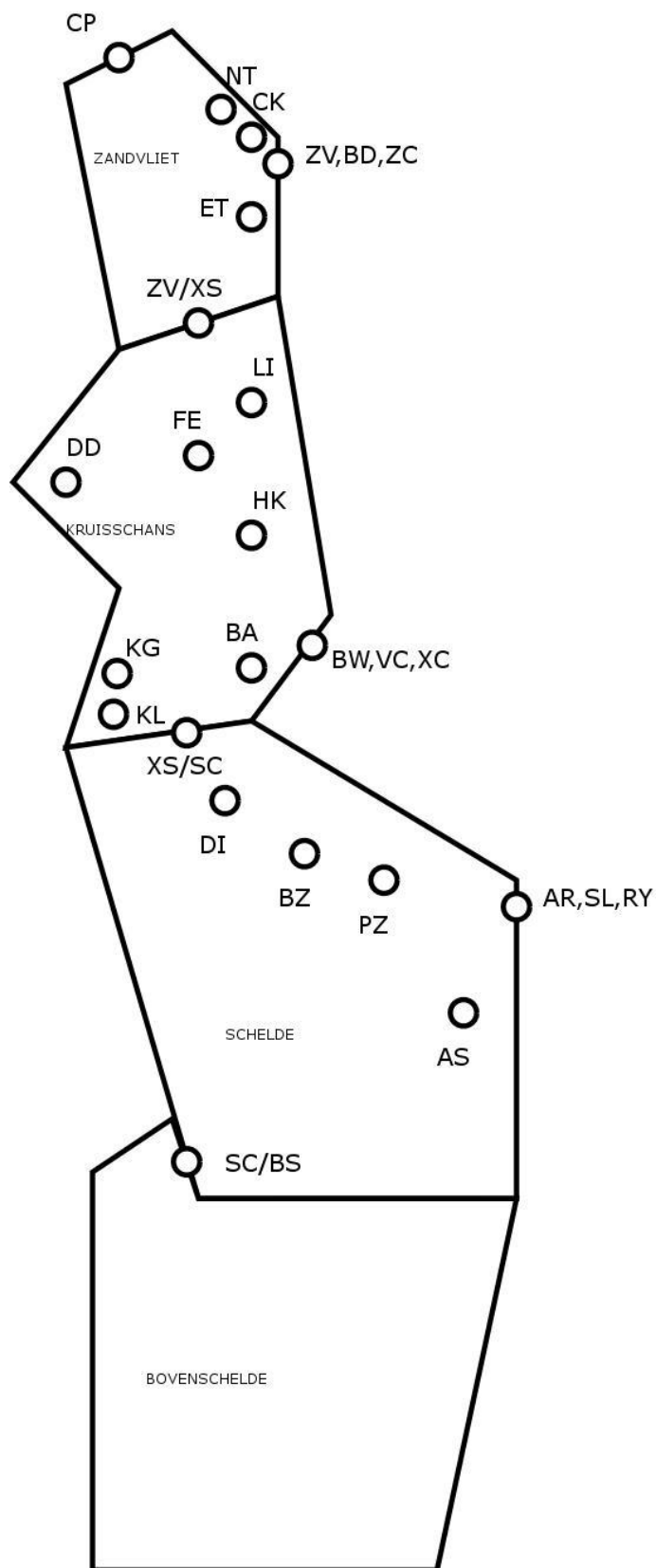
Dumping locations							
	<i>Week 07</i>	<i>Week 08</i>	<i>Week 09</i>	<i>Week 10</i>	<i>Week 11</i>	<i>Week 12</i>	<i>Week 13</i>
<i>SH61</i>	-	-	-	1.162	-	45.996	-
<i>Schaar Ouden Doel</i>	5.142	88.679	-	-	-	-	-
<i>Opspuitingen Deurganckdok</i>	-	-	-	-	-	-	-
<i>Putten Ketelplaat</i>	-	-	-	-	-	-	-
<i>Boei 102</i>	-	-	-	-	-	-	-
<i>Oosterweel</i>	70.746	37.664	39.371	90.103	34.985	21.466	69.111
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-
<i>Punt van Melsele</i>	57.009	35.468	41.577	100.222	29.421	24.916	67.482
<i>Opspuitingen Kruibeke</i>	-	-	-	-	-	-	-
<i>Opspuitingen Doeldok</i>	-	-	-	-	-	-	-

Annex E Navigation

E.1 Description of the areas

Area	Global description	Detailed description
1	Belgian border → Locks of Zandvliet – Berendrecht	Transit point CP → exit/entry point ZC, BD, ZV, NT, CK, ET or transit point ZV/XS
2	Locks of Zandvliet – Berendrecht → Deurganckdok	Transit point CP or entry/exit point ZC, BD, ZV, NT, CK, ET → transit point ZV/XS
3	Deurganckdok → Lock of Kallo	Transit point ZV/XS or entry/exit point DD → exit/entry point BA, BW, FE, HK, KG, KL, LI, VC, XC or transit point XS/SC
4	Lock of Kallo → Lock of Royers	Transit point XS/SC or entry/exit point DD, BA, BW, FE, HK, KG, KL, LI, VC, XC → entry/exit point AR, AS, BZ, DI, KT, PZ, RY, SL or transit point SC/BS

	<u>CID</u>	<u>MEANING</u>	<u>TYPE</u>
<u>GA</u>	GEBIED ANTWERPEN		
<u>SA</u>	Saefthinge		
	CP	Coördinatiepunt (blokgrens SA/ZV)	P
	CP2	Coördinatiepunt (blokgrens SA/ZV)	P
<u>SC</u>	Schelde		
	AR	Antwerpen Rede	E
	AS	Antwerpen Scheldekade/steiger	E
	AX	Antwerpen zonder detaillering	E
	BZ	BP Zwijndrecht	E
	DI	Haven Dredging International	E
	PZ	Polysar Zwijndrecht	E
	RY	Royerssluis	E
	SC/BS	Blokgrens SC/BS (boveneinde rede Antwerpen)	P
	SL	Sluizen Antwerpen Rechteroever	E
<u>XS</u>	Kruisschans		
	BA	Bayer Kallo	E
	BW	Boudewijns sluis	E
	DD	Deurganckdok	E
	FE	Steiger Fenol	E
	HK	Steiger Haltermann	E
	KG	Kallo geul	E
	KL	Kallosluis	E
	LI	Steiger Lillo	E
	VC	Van Cauwelaertsluis	E
	XC	Kruisschanssluiscomplex	E
	XS/SC	Blokgrens Kruisschans / Schelde	P
	XS/SC2	Blokgrens Kruisschans / Schelde	P
<u>ZV</u>	Zandvliet		
	BD	Berendrecht sluis	E
	CK	Containerkade Antwerpen	E
	ET	Europaterminal	E
	NT	Noordzeeterminal	E
	ZC	Zandvliet / Berendrecht sluiszencomplex	E
	ZV	Zandvliet sluis	E
	ZV/XS	Blokgrens Zandvliet / Kruisschans	P
	ZV/XS2	Blokgrens Zandvliet / Kruisschans	P



Sketch of the different areas of navigation

E.2 Weekly data

Week 14 (29/03/2010 – 04/04/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	131	129	2	18	112
	0 – 8 m	934	589	342	463	466
	8 – 12 m	190	0	188	63	126
	> 12 m	31	0	31	6	25
2	Unknown	103	98	5	19	83
	0 – 8 m	666	458	205	360	302
	8 – 12 m	74	0	72	36	37
	> 12 m	8	0	8	3	5
3	Unknown	96	93	3	18	75
	0 – 8 m	628	429	196	343	281
	8 – 12 m	51	0	49	23	27
	> 12 m	0	0	0	0	0
4	Unknown	23	23	0	12	11
	0 – 8 m	180	139	41	132	47
	8 – 12 m	1	0	0	0	0
	> 12 m	0	0	0	0	0
Week 15 (05/04/2010 – 11/04/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	76	73	3	18	58
	0 – 8 m	810	489	320	399	410
	8 – 12 m	184	0	184	50	134
	> 12 m	32	0	32	7	25
2	Unknown	63	57	6	12	51
	0 – 8 m	558	366	191	314	243
	8 – 12 m	57	0	57	28	29
	> 12 m	8	0	8	3	5
3	Unknown	59	54	5	11	48
	0 – 8 m	528	350	177	300	227
	8 – 12 m	40	0	40	21	19
	> 12 m	2	0	2	0	2
4	Unknown	9	9	0	5	4
	0 – 8 m	170	134	35	123	46
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

Week 16 (12/04/2010 – 18/04/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	80	79	1	12	66
	0 – 8 m	869	460	399	409	455
	8 – 12 m	209	1	208	68	140
	> 12 m	37	0	37	8	29
2	Unknown	62	61	1	11	49
	0 – 8 m	597	356	231	329	264
	8 – 12 m	77	1	76	41	36
	> 12 m	8	0	8	4	4
3	Unknown	60	59	1	11	47
	0 – 8 m	561	337	214	315	242
	8 – 12 m	52	1	51	28	24
	> 12 m	0	0	0	0	0
4	Unknown	14	12	2	3	10
	0 – 8 m	182	117	61	128	54
	8 – 12 m	2	0	2	2	0
	> 12 m	0	0	0	0	0
Week 17 (19/04/2010 – 25/04/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	92	89	3	22	68
	0 – 8 m	903	516	381	434	464
	8 – 12 m	191	0	190	62	129
	> 12 m	32	2	30	9	23
2	Unknown	72	69	3	18	52
	0 – 8 m	638	406	226	345	290
	8 – 12 m	73	0	72	38	35
	> 12 m	10	2	8	3	7
3	Unknown	73	69	4	20	51
	0 – 8 m	613	397	210	329	281
	8 – 12 m	52	0	51	27	25
	> 12 m	3	2	1	1	2
4	Unknown	26	25	1	10	16
	0 – 8 m	209	148	59	144	63
	8 – 12 m	2	0	1	1	1
	> 12 m	0	0	0	0	0
Week 18 (26/04/2010 – 02/05/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure

1	Unknown	81	80	1	14	67
	0 – 8 m	818	475	343	361	456
	8 – 12 m	209	1	208	59	150
	> 12 m	37	2	35	10	27
2	Unknown	64	62	2	12	52
	0 – 8 m	577	368	209	303	273
	8 – 12 m	73	1	72	37	36
	> 12 m	10	2	8	5	5
3	Unknown	59	58	1	11	48
	0 – 8 m	544	352	192	286	257
	8 – 12 m	49	1	48	23	26
	> 12 m	2	2	0	2	0
4	Unknown	29	29	0	10	19
	0 – 8 m	165	123	42	104	61
	8 – 12 m	4	0	4	2	2
	> 12 m	29	29	0	10	19
Week 19 (03/05/2010 – 09/05/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	50	48	2	9	41
	0 – 8 m	888	532	352	420	463
	8 – 12 m	193	0	193	58	135
	> 12 m	24	0	24	5	19
2	Unknown	46	44	2	7	39
	0 – 8 m	619	418	197	340	275
	8 – 12 m	59	0	59	31	28
	> 12 m	7	0	7	3	4
3	Unknown	46	44	2	7	39
	0 – 8 m	586	402	181	326	256
	8 – 12 m	38	0	38	20	18
	> 12 m	0	0	0	0	0
4	Unknown	6	6	0	1	5
	0 – 8 m	185	151	34	128	57
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 20 (10/05/2010 – 16/05/10)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	68	65	2	13	55
	0 – 8 m	833	493	337	398	434

	8 – 12 m	194	0	194	55	139
	> 12 m	41	0	41	4	37
2	Unknown	55	52	2	10	45
	0 – 8 m	571	376	192	319	251
	8 – 12 m	75	0	75	39	36
	> 12 m	11	0	11	3	8
3	Unknown	52	50	1	9	43
	0 – 8 m	548	369	176	309	238
	8 – 12 m	50	0	50	24	26
	> 12 m	0	0	0	0	0
4	Unknown	13	12	0	7	6
	0 – 8 m	192	146	45	143	49
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 21 (17/05/2010 – 23/05/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	72	72	0	10	61
	0 – 8 m	890	530	358	434	451
	8 – 12 m	191	0	191	71	120
	> 12 m	27	0	27	8	19
2	Unknown	52	52	0	7	44
	0 – 8 m	607	399	206	349	254
	8 – 12 m	72	0	72	32	40
	> 12 m	10	0	10	6	4
3	Unknown	52	52	0	8	43
	0 – 8 m	569	380	187	327	238
	8 – 12 m	53	0	53	23	30
	> 12 m	1	0	1	1	0
4	Unknown	15	15	0	4	11
	0 – 8 m	194	149	44	142	52
	8 – 12 m	2	0	2	1	1
	> 12 m	0	0	0	0	0
Week 22 (24/05/2010 – 30/05/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	41	39	2	6	33
	0 – 8 m	865	505	358	409	451
	8 – 12 m	180	0	180	59	121
	> 12 m	35	0	35	7	28

2	Unknown	38	32	6	6	31
	0 – 8 m	606	398	207	321	280
	8 – 12 m	62	0	62	32	30
	> 12 m	11	0	11	5	6
3	Unknown	35	30	5	6	27
	0 – 8 m	570	384	185	303	262
	8 – 12 m	44	0	44	23	21
	> 12 m	1	0	1	1	0
4	Unknown	10	8	2	3	7
	0 – 8 m	185	148	37	145	40
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 23 (31/05/2010 – 06/06/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	58	1	9	49
	0 – 8 m	879	525	353	432	441
	8 – 12 m	189	0	189	71	118
	> 12 m	41	0	41	6	35
2	Unknown	49	45	4	9	39
	0 – 8 m	612	414	197	351	258
	8 – 12 m	73	0	73	37	36
	> 12 m	13	0	13	5	8
3	Unknown	49	46	3	8	39
	0 – 8 m	585	399	185	336	246
	8 – 12 m	53	0	53	26	27
	> 12 m	0	0	0	0	0
4	Unknown	13	12	1	2	11
	0 – 8 m	163	136	27	121	42
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 24 (07/06/2010 – 13/06/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	78	75	3	15	63
	0 – 8 m	908	539	367	434	468
	8 – 12 m	197	0	197	64	133
	> 12 m	27	1	26	6	21
2	Unknown	55	52	3	12	43
	0 – 8 m	637	428	207	343	288

	8 – 12 m	69	0	69	33	36
	> 12 m	9	1	8	5	4
3	Unknown	50	48	2	12	38
	0 – 8 m	607	413	192	328	273
	8 – 12 m	46	0	46	20	26
	> 12 m	2	1	1	1	1
4	Unknown	16	16	0	7	9
	0 – 8 m	208	164	43	151	56
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 25 (14/06/2010 – 20/06/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	73	72	0	13	59
	0 – 8 m	859	508	350	382	474
	8 – 12 m	173	0	173	59	114
	> 12 m	33	0	33	7	26
2	Unknown	65	60	4	11	54
	0 – 8 m	583	379	203	299	283
	8 – 12 m	64	0	64	35	29
	> 12 m	10	0	10	3	7
3	Unknown	64	63	1	12	52
	0 – 8 m	554	365	188	280	272
	8 – 12 m	40	0	40	22	18
	> 12 m	0	0	0	0	0
4	Unknown	16	16	0	4	12
	0 – 8 m	187	149	38	123	64
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 26 (21/06/2010 – 27/06/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	70	67	3	15	52
	0 – 8 m	918	528	390	390	516
	8 – 12 m	175	0	175	61	114
	> 12 m	29	0	29	2	27
2	Unknown	58	55	3	9	46
	0 – 8 m	606	389	217	307	289
	8 – 12 m	60	0	60	29	31
	> 12 m	5	0	5	1	4

3	Unknown	57	54	3	9	44
	0 – 8 m	577	374	203	291	276
	8 – 12 m	38	0	38	17	21
	> 12 m	1	0	1	0	1
4	Unknown	20	20	0	6	13
	0 – 8 m	165	122	43	113	49
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 27 (28/06/2010 – 04/07/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	56	3	8	49
	0 – 8 m	907	555	349	444	458
	8 – 12 m	193	0	193	69	124
	> 12 m	33	0	33	6	27
2	Unknown	51	48	3	7	42
	0 – 8 m	642	432	207	363	275
	8 – 12 m	69	0	69	39	30
	> 12 m	8	0	8	2	6
3	Unknown	49	47	2	7	40
	0 – 8 m	607	413	191	345	258
	8 – 12 m	45	0	45	26	19
	> 12 m	0	0	0	0	0
4	Unknown	9	8	1	4	4
	0 – 8 m	202	161	40	148	54
	8 – 12 m	2	0	2	1	1
	> 12 m	0	0	0	0	0
Week 28 (05/07/2010 – 11/07/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	57	2	10	49
	0 – 8 m	897	491	403	424	468
	8 – 12 m	182	0	182	61	121
	> 12 m	30	0	30	5	25
2	Unknown	58	56	2	11	47
	0 – 8 m	621	373	245	342	276
	8 – 12 m	65	0	65	29	36
	> 12 m	10	0	10	5	5
3	Unknown	60	58	2	11	45

	0 – 8 m	590	359	228	328	259
	8 – 12 m	43	0	43	17	26
	> 12 m	1	0	1	1	0
4	Unknown	16	14	2	10	6
	0 – 8 m	178	109	67	134	44
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 29 (12/07/2010 – 18/07/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	60	47	13	10	49
	0 – 8 m	839	467	372	363	474
	8 – 12 m	177	0	177	54	123
	> 12 m	30	1	29	4	26
2	Unknown	40	28	12	6	34
	0 – 8 m	556	337	219	273	282
	8 – 12 m	56	0	56	26	30
	> 12 m	12	1	11	3	9
3	Unknown	42	29	13	7	34
	0 – 8 m	519	316	203	256	262
	8 – 12 m	37	0	37	16	21
	> 12 m	2	1	1	0	2
4	Unknown	11	5	6	3	8
	0 – 8 m	165	103	62	104	61
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 30 (19/07/2010 – 25/07/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	46	45	1	11	34
	0 – 8 m	772	407	365	357	412
	8 – 12 m	186	0	186	61	125
	> 12 m	33	0	33	8	25
2	Unknown	40	37	3	10	29
	0 – 8 m	502	297	205	279	222
	8 – 12 m	67	0	67	38	29
	> 12 m	11	0	11	5	6
3	Unknown	39	37	2	9	29
	0 – 8 m	471	282	189	264	206
	8 – 12 m	47	0	47	26	21

	> 12 m	1	0	1	1	0
4	Unknown	11	11	0	7	4
	0 – 8 m	147	110	37	103	44
	8 – 12 m	3	0	3	2	1
	> 12 m	0	0	0	0	0
Week 31 (26/07/2010 – 01/08/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	58	54	4	11	47
	0 – 8 m	745	406	339	337	404
	8 – 12 m	188	0	188	54	134
	> 12 m	38	0	38	5	33
2	Unknown	37	33	4	6	31
	0 – 8 m	486	293	193	257	227
	8 – 12 m	68	0	68	29	39
	> 12 m	7	0	7	2	5
3	Unknown	36	32	4	6	30
	0 – 8 m	457	279	178	242	213
	8 – 12 m	46	0	46	19	27
	> 12 m	0	0	0	0	0
4	Unknown	11	7	4	3	8
	0 – 8 m	137	99	37	95	42
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 32 (02/08/2010 – 08/08/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	47	42	3	5	42
	0 – 8 m	828	466	353	405	419
	8 – 12 m	205	0	205	67	138
	> 12 m	25	0	25	5	20
2	Unknown	37	31	5	6	31
	0 – 8 m	543	340	194	311	230
	8 – 12 m	69	0	69	39	30
	> 12 m	8	0	8	3	5
3	Unknown	35	30	4	4	31
	0 – 8 m	515	323	183	295	218
	8 – 12 m	49	0	49	28	21
	> 12 m	0	0	0	0	0
4	Unknown	15	11	3	3	12

	0 – 8 m	154	122	29	109	44
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 33 (09/08/2010 – 15/08/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	25	25	0	5	20
	0 – 8 m	874	521	349	382	488
	8 – 12 m	177	0	177	54	123
	> 12 m	33	1	32	4	29
2	Unknown	18	17	1	5	13
	0 – 8 m	553	369	180	283	266
	8 – 12 m	63	0	63	33	30
	> 12 m	9	0	9	2	7
3	Unknown	16	16	0	5	11
	0 – 8 m	527	355	168	268	255
	8 – 12 m	41	0	41	21	20
	> 12 m	0	0	0	0	0
4	Unknown	3	3	0	1	2
	0 – 8 m	143	101	40	105	36
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 34 (16/08/2010 – 22/08/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	57	54	3	17	39
	0 – 8 m	857	519	336	390	463
	8 – 12 m	199	0	199	69	130
	> 12 m	23	0	23	8	15
2	Unknown	45	43	2	13	31
	0 – 8 m	587	394	191	325	259
	8 – 12 m	66	0	66	36	30
	> 12 m	6	0	6	3	3
3	Unknown	42	40	2	12	29
	0 – 8 m	558	379	177	309	246
	8 – 12 m	44	0	44	24	20
	> 12 m	1	0	1	1	0
4	Unknown	12	10	2	5	7
	0 – 8 m	179	136	43	136	43
	8 – 12 m	0	0	0	0	0

	> 12 m	0	0	0	0	0
Week 35 (23/08/2010 – 29/08/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	52	52	0	11	40
	0 – 8 m	827	504	322	404	416
	8 – 12 m	182	0	182	51	131
	> 12 m	28	0	28	2	26
2	Unknown	48	46	2	13	34
	0 – 8 m	567	383	183	312	251
	8 – 12 m	63	0	63	30	33
	> 12 m	6	0	6	1	5
3	Unknown	44	43	1	14	29
	0 – 8 m	535	367	167	292	238
	8 – 12 m	41	0	41	18	23
	> 12 m	0	0	0	0	0
4	Unknown	16	16	0	9	7
	0 – 8 m	167	136	31	126	41
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 36 (30/08/2010 – 05/09/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	59	0	17	42
	0 – 8 m	815	482	332	374	432
	8 – 12 m	198	0	198	64	134
	> 12 m	27	0	27	4	23
2	Unknown	44	41	3	13	31
	0 – 8 m	533	341	191	278	248
	8 – 12 m	65	0	65	36	29
	> 12 m	6	0	6	2	4
3	Unknown	41	40	1	13	28
	0 – 8 m	503	326	176	261	235
	8 – 12 m	37	0	37	22	15
	> 12 m	0	0	0	0	0
4	Unknown	13	12	1	7	6
	0 – 8 m	166	132	34	115	49
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 37 (06/09/2010 – 12/09/2010)						

Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	68	66	1	15	50
	0 – 8 m	880	513	364	425	446
	8 – 12 m	195	0	195	61	134
	> 12 m	27	0	27	5	22
2	Unknown	51	48	2	12	37
	0 – 8 m	604	392	209	334	263
	8 – 12 m	67	0	67	37	30
	> 12 m	8	0	8	3	5
3	Unknown	54	50	3	14	38
	0 – 8 m	579	383	193	321	251
	8 – 12 m	45	0	45	23	22
	> 12 m	2	0	2	1	1
4	Unknown	16	15	0	5	11
	0 – 8 m	185	146	39	135	50
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 38 (13/09/2010 – 19/09/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	57	57	0	15	42
	0 – 8 m	832	480	351	394	437
	8 – 12 m	209	0	209	57	152
	> 12 m	23	0	23	2	21
2	Unknown	49	48	1	14	35
	0 – 8 m	571	357	213	323	247
	8 – 12 m	74	0	74	31	43
	> 12 m	7	0	7	2	5
3	Unknown	48	47	1	14	34
	0 – 8 m	537	340	196	302	233
	8 – 12 m	45	0	45	14	30
	> 12 m	0	0	0	0	0
4	Unknown	22	21	1	9	13
	0 – 8 m	158	120	38	121	37
	8 – 12 m	1	0	1	0	0
	> 12 m	0	0	0	0	0
Week 39 (20/09/2010 – 26/09/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	61	59	1	11	50

	0 – 8 m	883	515	365	424	453
	8 – 12 m	187	0	187	53	134
	> 12 m	24	1	23	4	20
2	Unknown	47	42	4	9	38
	0 – 8 m	570	351	216	312	256
	8 – 12 m	63	0	63	27	36
	> 12 m	7	1	6	3	4
3	Unknown	44	40	3	8	36
	0 – 8 m	533	337	194	290	241
	8 – 12 m	40	0	40	16	24
	> 12 m	1	1	0	1	0
4	Unknown	9	8	0	3	6
	0 – 8 m	171	120	51	123	48
	8 – 12 m	3	0	3	1	2
	> 12 m	0	0	0	0	0
Week 40 (27/09/2010 – 03/10/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	72	70	1	18	53
	0 – 8 m	918	527	389	418	496
	8 – 12 m	212	0	212	61	151
	> 12 m	30	0	30	5	25
2	Unknown	53	51	1	16	36
	0 – 8 m	602	383	217	322	276
	8 – 12 m	78	0	78	38	40
	> 12 m	8	0	8	2	6
3	Unknown	55	51	3	16	38
	0 – 8 m	568	365	201	299	265
	8 – 12 m	52	0	52	23	29
	> 12 m	0	0	0	0	0
4	Unknown	16	16	0	7	8
	0 – 8 m	165	132	33	108	56
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 41 (04/10/2010 – 10/10/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	79	76	3	16	63
	0 – 8 m	833	471	359	380	445
	8 – 12 m	213	0	213	65	148

	> 12 m	32	0	32	4	28
2	Unknown	62	58	4	12	50
	0 – 8 m	579	372	204	315	258
	8 – 12 m	86	0	86	39	47
	> 12 m	8	0	8	2	6
3	Unknown	59	58	1	12	47
	0 – 8 m	552	362	187	298	248
	8 – 12 m	59	0	59	27	32
	> 12 m	1	0	1	0	1
4	Unknown	18	17	1	5	13
	0 – 8 m	170	134	36	109	59
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 42 (11/10/2010 – 17/10/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	54	52	2	11	43
	0 – 8 m	893	512	381	420	469
	8 – 12 m	194	0	194	59	135
	> 12 m	33	0	33	5	28
2	Unknown	46	43	3	11	35
	0 – 8 m	580	353	227	310	266
	8 – 12 m	74	0	74	37	37
	> 12 m	8	0	8	3	5
3	Unknown	45	43	2	9	36
	0 – 8 m	543	333	210	290	249
	8 – 12 m	49	0	49	22	27
	> 12 m	0	0	0	0	0
4	Unknown	15	12	3	4	11
	0 – 8 m	154	116	38	110	42
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
Week 43 (18/10/2010 – 24/10/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	66	64	2	21	43
	0 – 8 m	882	492	389	406	472
	8 – 12 m	204	0	204	64	140
	> 12 m	31	0	31	4	27
2	Unknown	46	44	2	13	32

	0 – 8 m	579	342	236	303	273
	8 – 12 m	75	0	75	37	38
	> 12 m	6	0	6	2	4
3	Unknown	44	42	2	13	30
	0 – 8 m	547	327	219	287	257
	8 – 12 m	46	0	46	23	23
	> 12 m	0	0	0	0	0
4	Unknown	18	14	4	12	5
	0 – 8 m	189	136	53	131	58
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 44 (25/10/2010 – 31/10/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	65	61	3	9	56
	0 – 8 m	836	484	349	399	433
	8 – 12 m	204	0	204	64	140
	> 12 m	26	0	26	3	23
2	Unknown	44	40	3	4	40
	0 – 8 m	570	375	192	313	254
	8 – 12 m	76	0	76	40	36
	> 12 m	8	0	8	2	6
3	Unknown	41	36	4	4	37
	0 – 8 m	530	352	175	288	238
	8 – 12 m	42	0	42	19	23
	> 12 m	1	0	1	1	0
4	Unknown	12	10	2	2	10
	0 – 8 m	151	119	31	110	41
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 45 (01/11/2010 – 07/11/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	49	43	6	9	39
	0 – 8 m	806	462	341	401	401
	8 – 12 m	206	0	206	64	142
	> 12 m	34	0	34	3	31
2	Unknown	40	34	6	7	32
	0 – 8 m	555	361	191	311	240
	8 – 12 m	87	0	87	39	48

	> 12 m	9	0	9	2	7
3	Unknown	36	33	3	7	28
	0 – 8 m	510	340	168	283	223
	8 – 12 m	60	0	60	25	35
	> 12 m	0	0	0	0	0
4	Unknown	9	9	0	2	6
	0 – 8 m	181	134	46	127	52
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 46 (08/11/2010 – 14/11/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	37	35	2	7	30
	0 – 8 m	745	437	308	346	396
	8 – 12 m	185	0	185	53	132
	> 12 m	25	0	25	4	21
2	Unknown	30	27	3	4	26
	0 – 8 m	512	329	183	274	235
	8 – 12 m	72	0	72	34	38
	> 12 m	7	0	7	3	4
3	Unknown	27	24	3	4	23
	0 – 8 m	481	317	164	256	222
	8 – 12 m	45	0	45	21	24
	> 12 m	0	0	0	0	0
4	Unknown	3	3	0	3	0
	0 – 8 m	144	112	32	95	49
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 47 (15/11/2010 – 21/11/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	77	73	4	16	59
	0 – 8 m	865	431	428	401	456
	8 – 12 m	208	0	207	66	142
	> 12 m	29	0	29	6	23
2	Unknown	53	47	6	10	41
	0 – 8 m	592	340	247	323	263
	8 – 12 m	81	0	80	43	38
	> 12 m	8	0	8	3	5
3	Unknown	51	46	5	10	39

	0 – 8 m	551	319	227	302	243
	8 – 12 m	53	0	53	29	24
	> 12 m	0	0	0	0	0
4	Unknown	11	11	0	1	10
	0 – 8 m	158	100	57	106	49
	8 – 12 m	2	0	2	2	0
	> 12 m	0	0	0	0	0
Week 48 (22/11/2010 – 28/11/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	72	68	3	10	61
	0 – 8 m	897	492	404	424	464
	8 – 12 m	192	0	192	58	134
	> 12 m	40	0	40	11	29
2	Unknown	56	53	2	6	49
	0 – 8 m	626	368	257	341	277
	8 – 12 m	66	0	66	32	34
	> 12 m	12	0	12	5	7
3	Unknown	52	49	2	5	46
	0 – 8 m	593	351	241	322	263
	8 – 12 m	38	0	38	17	21
	> 12 m	2	0	2	1	1
4	Unknown	14	13	1	2	12
	0 – 8 m	163	111	52	111	51
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 49 (29/11/2010 – 05/12/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	51	49	2	10	40
	0 – 8 m	797	469	328	362	430
	8 – 12 m	204	0	204	70	134
	> 12 m	31	0	31	3	28
2	Unknown	35	33	2	7	27
	0 – 8 m	505	328	177	275	227
	8 – 12 m	84	0	84	45	39
	> 12 m	7	0	7	2	5
3	Unknown	35	34	1	7	27
	0 – 8 m	479	314	165	259	217
	8 – 12 m	57	0	57	33	24

	> 12 m	0	0	0	0	0
4	Unknown	11	11	0	4	7
	0 – 8 m	135	102	33	93	42
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 50 (06/12/2010 – 12/12/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	55	4	15	41
	0 – 8 m	850	471	377	375	469
	8 – 12 m	201	0	201	59	142
	> 12 m	22	0	22	4	18
2	Unknown	48	42	6	12	34
	0 – 8 m	532	316	214	270	259
	8 – 12 m	64	0	64	30	34
	> 12 m	7	0	7	3	4
3	Unknown	43	39	4	11	30
	0 – 8 m	502	300	200	253	246
	8 – 12 m	40	0	40	17	23
	> 12 m	0	0	0	0	0
4	Unknown	10	8	2	4	6
	0 – 8 m	155	101	52	104	50
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 51 (13/12/2010 – 19/12/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	61	58	3	14	44
	0 – 8 m	815	433	379	381	429
	8 – 12 m	199	0	199	56	143
	> 12 m	27	0	27	4	23
2	Unknown	41	37	4	9	30
	0 – 8 m	555	323	229	293	257
	8 – 12 m	73	0	73	34	39
	> 12 m	8	0	8	3	5
3	Unknown	37	35	2	9	26
	0 – 8 m	526	314	209	277	244
	8 – 12 m	47	0	47	22	25
	> 12 m	0	0	0	0	0
4	Unknown	14	13	1	7	7

	0 – 8 m	172	128	43	120	52
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 52 (20/12/2010 – 26/12/2010)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	38	37	0	9	29
	0 – 8 m	679	362	315	324	350
	8 – 12 m	202	0	202	65	137
	> 12 m	21	0	21	5	16
2	Unknown	29	28	0	8	21
	0 – 8 m	447	254	191	249	196
	8 – 12 m	82	0	82	42	40
	> 12 m	6	0	6	2	4
3	Unknown	28	28	0	7	21
	0 – 8 m	414	238	174	231	181
	8 – 12 m	52	0	52	26	26
	> 12 m	0	0	0	0	0
4	Unknown	10	10	0	3	7
	0 – 8 m	145	96	47	104	40
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
Week 01 (27/12/2010 – 02/01/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	29	26	3	3	26
	0 – 8 m	657	341	314	301	352
	8 – 12 m	188	0	188	62	126
	> 12 m	19	2	17	4	15
2	Unknown	20	16	4	1	19
	0 – 8 m	422	236	184	218	202
	8 – 12 m	74	0	74	38	36
	> 12 m	5	2	3	3	2
3	Unknown	20	16	4	1	19
	0 – 8 m	394	227	165	199	193
	8 – 12 m	47	0	47	23	24
	> 12 m	3	2	1	3	0
4	Unknown	5	3	2	1	4
	0 – 8 m	110	69	40	75	35
	8 – 12 m	1	0	1	1	0

	> 12 m	2	2	0	2	0
Week 02 (03/01/2011 – 09/01/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	35	32	3	11	24
	0 – 8 m	704	400	302	342	361
	8 – 12 m	222	0	222	69	153
	> 12 m	25	0	25	3	22
2	Unknown	28	24	4	11	17
	0 – 8 m	482	295	185	280	201
	8 – 12 m	86	0	86	39	47
	> 12 m	3	0	3	2	1
3	Unknown	28	24	4	10	18
	0 – 8 m	447	273	172	259	188
	8 – 12 m	50	0	50	22	28
	> 12 m	1	0	1	1	0
4	Unknown	9	7	2	5	4
	0 – 8 m	145	98	46	95	50
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 03 (10/01/2011 – 16/01/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	50	48	2	8	42
	0 – 8 m	793	429	363	348	443
	8 – 12 m	211	0	211	65	146
	> 12 m	23	0	23	2	21
2	Unknown	36	34	2	9	27
	0 – 8 m	512	309	202	267	243
	8 – 12 m	94	0	94	48	46
	> 12 m	4	0	4	1	3
3	Unknown	34	31	3	9	25
	0 – 8 m	471	287	183	245	224
	8 – 12 m	53	0	53	26	27
	> 12 m	0	0	0	0	0
4	Unknown	11	11	0	5	6
	0 – 8 m	141	94	47	94	47
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 04 (17/01/2011 – 23/01/2011)						

Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	50	50	0	10	40
	0 – 8 m	875	519	355	441	433
	8 – 12 m	186	0	186	64	122
	> 12 m	26	0	26	5	21
2	Unknown	40	40	0	8	32
	0 – 8 m	622	408	213	359	263
	8 – 12 m	78	0	78	40	38
	> 12 m	7	0	7	3	4
3	Unknown	37	37	0	8	29
	0 – 8 m	587	387	199	334	253
	8 – 12 m	47	0	47	24	23
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	4	10
	0 – 8 m	184	135	49	131	53
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 05 (24/01/2011 – 30/01/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	75	72	3	17	57
	0 – 8 m	868	530	334	433	432
	8 – 12 m	213	1	212	68	145
	> 12 m	39	0	39	7	32
2	Unknown	52	48	4	12	39
	0 – 8 m	603	399	200	350	251
	8 – 12 m	82	0	82	41	41
	> 12 m	12	0	12	6	6
3	Unknown	50	48	2	11	38
	0 – 8 m	570	381	185	329	239
	8 – 12 m	49	0	49	25	24
	> 12 m	0	0	0	0	0
4	Unknown	18	18	0	5	13
	0 – 8 m	180	136	42	123	57
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 06 (31/01/2011 – 06/02/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	59	56	1	15	43

	0 – 8 m	833	490	343	417	411
	8 – 12 m	194	0	194	67	127
	> 12 m	25	0	25	3	22
2	Unknown	39	35	2	9	29
	0 – 8 m	591	387	204	345	243
	8 – 12 m	77	0	77	39	38
	> 12 m	5	0	5	2	3
3	Unknown	36	33	1	9	26
	0 – 8 m	553	366	187	323	227
	8 – 12 m	47	0	47	24	23
	> 12 m	0	0	0	0	0
4	Unknown	12	11	0	3	9
	0 – 8 m	179	140	39	135	43
	8 – 12 m	4	0	4	2	2
	> 12 m	0	0	0	0	0
Week 07 (07/02/2011 – 13/02/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	77	74	3	15	62
	0 – 8 m	953	566	384	489	462
	8 – 12 m	193	0	193	57	136
	> 12 m	38	0	38	11	27
2	Unknown	57	54	3	11	46
	0 – 8 m	668	451	215	414	253
	8 – 12 m	80	0	80	38	42
	> 12 m	12	0	12	7	5
3	Unknown	55	52	3	11	44
	0 – 8 m	634	425	208	392	241
	8 – 12 m	51	0	51	23	28
	> 12 m	1	0	1	1	0
4	Unknown	17	15	2	5	12
	0 – 8 m	204	154	49	159	45
	8 – 12 m	2	0	2	1	1
	> 12 m	0	0	0	0	0
Week 08 (14/02/2011 – 20/02/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	76	75	0	20	56
	0 – 8 m	933	569	361	469	456
	8 – 12 m	209	0	209	75	134

	> 12 m	44	0	44	6	38
2	Unknown	61	60	0	16	45
	0 – 8 m	637	418	216	373	260
	8 – 12 m	90	0	90	49	41
	> 12 m	15	0	15	4	11
3	Unknown	61	60	0	16	45
	0 – 8 m	601	394	204	351	246
	8 – 12 m	52	0	52	27	25
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	7	7
	0 – 8 m	212	160	52	164	48
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 09 (21/02/2011 – 27/02/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	60	57	3	17	43
	0 – 8 m	963	591	371	466	494
	8 – 12 m	215	0	215	68	147
	> 12 m	32	0	32	7	25
2	Unknown	44	41	3	17	27
	0 – 8 m	624	402	222	360	262
	8 – 12 m	88	0	88	42	46
	> 12 m	7	0	7	4	3
3	Unknown	44	41	3	18	26
	0 – 8 m	583	374	209	335	245
	8 – 12 m	61	0	61	29	32
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	8	6
	0 – 8 m	165	135	30	120	45
	8 – 12 m	2	0	2	1	1
	> 12 m	0	0	0	0	0
Week 10 (28/02/2011 – 06/03/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	60	60	0	13	47
	0 – 8 m	891	516	373	436	450
	8 – 12 m	219	0	219	74	145
	> 12 m	32	0	32	4	28
2	Unknown	43	41	2	7	36

	0 – 8 m	625	405	218	356	265
	8 – 12 m	92	0	92	50	42
	> 12 m	8	0	8	1	7
3	Unknown	44	42	2	7	36
	0 – 8 m	589	385	202	333	252
	8 – 12 m	59	0	59	31	28
	> 12 m	0	0	0	0	0
4	Unknown	14	13	1	5	9
	0 – 8 m	178	134	44	131	47
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
Week 11 (07/03/2011 – 13/03/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	75	73	2	17	57
	0 – 8 m	915	536	377	445	467
	8 – 12 m	214	0	214	65	149
	> 12 m	35	0	35	7	28
2	Unknown	48	46	2	11	36
	0 – 8 m	633	425	206	363	268
	8 – 12 m	92	0	92	44	48
	> 12 m	13	0	13	5	8
3	Unknown	47	47	0	11	35
	0 – 8 m	608	415	191	349	257
	8 – 12 m	59	0	59	27	32
	> 12 m	2	0	2	1	1
4	Unknown	13	13	0	8	5
	0 – 8 m	215	166	48	156	59
	8 – 12 m	5	0	5	3	2
	> 12 m	0	0	0	0	0
Week 12 (14/03/2011 – 20/03/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	58	56	2	11	46
	0 – 8 m	896	530	365	440	450
	8 – 12 m	186	0	186	62	124
	> 12 m	29	0	29	6	23
2	Unknown	46	43	3	8	37
	0 – 8 m	654	441	212	364	285
	8 – 12 m	84	0	84	43	41

	> 12 m	5	0	5	2	3
3	Unknown	45	43	2	8	36
	0 – 8 m	617	420	196	339	273
	8 – 12 m	51	0	51	27	24
	> 12 m	0	0	0	0	0
4	Unknown	12	11	1	3	9
	0 – 8 m	198	158	40	135	63
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 13 (21/03/2011 – 27/03/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	66	62	4	16	49
	0 – 8 m	1000	599	398	528	468
	8 – 12 m	208	0	208	61	147
	> 12 m	34	0	34	8	26
2	Unknown	61	55	6	16	44
	0 – 8 m	756	518	235	442	311
	8 – 12 m	84	0	84	37	47
	> 12 m	8	0	8	5	3
3	Unknown	59	54	5	16	42
	0 – 8 m	711	488	220	415	293
	8 – 12 m	55	0	55	23	32
	> 12 m	0	0	0	0	0
4	Unknown	9	8	1	4	5
	0 – 8 m	220	174	44	169	51
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
Week 14 (28/03/2011 – 03/04/2011)						
Area	Draught	Total	Inland navigation	Seagoing	Arrival	Departure
1	Unknown	78	76	1	10	68
	0 – 8 m	911	554	355	457	449
	8 – 12 m	206	0	206	68	138
	> 12 m	39	0	39	10	29
2	Unknown	66	65	0	10	56
	0 – 8 m	697	483	212	400	294
	8 – 12 m	95	0	95	52	43
	> 12 m	13	0	13	5	8
3	Unknown	64	63	0	9	55

	0 – 8 m	657	458	198	376	277
	8 – 12 m	68	0	68	38	30
	> 12 m	0	0	0	0	0
4	Unknown	15	15	0	6	9
	0 – 8 m	216	168	48	165	50
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

Annex F unesco PPs-78 formula for calculating salinity

Practical Salinity Scale (PPS 78) Salinity in the range of 2 to 42

Constants from the 19th Edition of Standard Methods

R cond.ratio	0.0117	$R = \frac{C}{42.914 \text{ mS/cm}}$	
C Cond at t	0.5	Input conductivity in mS/cm of sample	
t deg. C	22.00	Input temperature of sample solution	
P dBar	20	Input pressure at which sample is measured in decibars	
Rp	1.0020845	$R_p = 1 + \frac{p(e_1 + e_2 p + e_3 p^2)}{1 + d_1 t + d_2 t^2 + (d_3 + d_4 t)R}$	
rt	1.1641102	$r_t = c_0 + c_1 t + c_2 t^2 + c_3 t^3 + c_4 t^4$	
Rt	0.0099879	$R_t = \frac{R}{R_p \times r_t}$	
Delta S	-0.0010	$\Delta S = \frac{(t-15)}{1+k(t-15)} (b_0 + b_1 R_t^{1/2} + b_2 R_t^{3/2} + b_3 R_t^2 + b_4 R_t^{5/2})$	
S = Salinity	0.257	$S = a_0 + a_1 R_t^{1/2} + a_2 R_t^{3/2} + a_3 R_t^2 + a_4 R_t^{5/2} + \Delta S$	
a0	0.0080	b0	0.0005
a1	-0.1692	b1	-0.0056
a2	25.3851	b2	-0.0066
a3	14.0941	b3	-0.0375
a4	-7.0261	b4	0.0636
a5	2.7081	b5	-0.0144
		k	0.0162
		c0	0.6766097
		c1	2.00564E-02
		c2	1.104259E-04
		c3	-6.9698E-07
		c4	1.0031E-09
		d1	3.426E-02
		d2	4.464E-04
		d3	4.215E-01
		d4	-3.107E-03
		e1	2.070E-04
		e2	-6.370E-08
		e3	3.989E-12

R = ratio of measured conductivity to the conductivity of the Standard Seawater Solution

Conductivity Ratio R is a function of salinity, temperature, and hydraulic pressure. So that we can factor R into three parts i.e.

$$R = R_t \times R_p \times r_t$$

$$R = C(S, t, p) / C(35, 15, 0)$$

C = 42.914 mS/cm at 15 deg C and 0 dbar pressure ie C(35,15,0) where 35 is the salinity

Ocean pressure is usually measured in decibars. 1 dbar = 10⁻¹ bar = 10⁵ dyne/cm² = 10⁴ Pascal.

Annex G Overview of HCBS2 and aanslibbing Deurganckdok reports

Report	Description of HCBS2
Ambient Conditions Lower Sea Scheldt	
5.3	Overview of ambient conditions in the river Scheldt – January-June 2006 (I/RA/11291/06.088/MSA)
5.4	Overview of ambient conditions in the river Scheldt – July-December 2006 (I/RA/11291/06.089/MSA)
5.5	Overview of ambient conditions in the river Scheldt : RCM-9 Buoy 84 & 97 (1/1/2007 – 31/3/2007) (I/RA/11291/06.090/MSA)²
5.6	Analysis of ambient conditions during 2006 (I/RA/11291/06.091/MSA)
Calibration	
6.1	Winter Calibration (I/RA/11291/06.092/MSA)
6.2	Summer Calibration and Final Report (I/RA/11291/06.093/MSA)
Through tide Measurements Winter 2006	
7.1	21/3 Scheldewacht – Deurganckdok – Salinity Distribution (I/RA/11291/06.094/MSA)
7.2	22/3 Parel 2 – Deurganckdok (I/RA/11291/06.095/MSA)
7.3	22/3 Laure Marie – Liefkenshoek (I/RA/11291/06.096/MSA)
7.4	23/3 Parel 2 – Schelle (I/RA/11291/06.097/MSA)
7.5	23/3 Laure Marie – Deurganckdok (I/RA/11291/06.098/MSA)
7.6	23/3 Veremans Waarde (I/RA/11291/06.099/MSA)
HCBS Near bed continuous monitoring (Frames)	
8.1	Near bed continuous monitoring winter 2006 (I/RA/11291/06.100/MSA)
INSSEV	
9	Settling Velocity - INSSEV summer 2006 (I/RA/11291/06.102/MSA)
Cohesive Sediment	
10	Cohesive sediment properties summer 2006 (I/RA/11291/06.103/MSA)
Through tide Measurements Summer 2006	
11.1	Through Tide Measurement Sediview and Siltprofiler 27/9 Stream - Liefkenshoek (I/RA/11291/06.104/MSA)
11.2	Through Tide Measurement Sediview 27/9 Veremans - Raai K (I/RA/11291/06.105/MSA)
11.3	Through Tide Measurement Sediview and Siltprofiler 28/9 Stream - Raai K (I/RA/11291/06.106/MSA)
11.4	Through Tide Measurement Sediview 28/9 Veremans - Waarde(I/RA/11291/06.107/MSA)

² The data, foreseen for Report 5.5 is reported in report 3.1. Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA) including HCBS 2 report 5.5 (Deurganckdok).

11.5	Through Tide Measurements Sediview 28/9 Parel 2 - Schelle (I/RA/11291/06.108/MSA)
11.6	Through Tide measurement 26/9 Scheldewacht – Deurganckdok – Salinity Distribution (I/RA/11291/06.161/MSA)
Analysis	
12	Report concerning the presence of HCBS layers in the Scheldt river (I/RA/11291/06.109/MSA)

Report Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2008	
Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities	
1.1	Sediment Balance: Three monthly report 1/4/2006 – 30/06/2006 (I/RA/11283/06.113/MSA)
1.2	Sediment Balance: Three monthly report 1/7/2006 – 30/09/2006 (I/RA/11283/06.114/MSA)
1.3	Sediment Balance: Three monthly report 1/10/2006 – 31/12/2006 (I/RA/11283/06.115/MSA)
1.4	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.116/MSA)
1.5	Annual Sediment Balance (I/RA/11283/06.117/MSA)
1.6	Sediment balance Bathymetry: 2005 – 3/2006 (I/RA/11283/06.118/MSA)
1.10	Sediment Balance: Three monthly report 1/4/2007 - 30/06/2007 (I/RA/11283/07.081/MSA)
1.11	Sediment Balance: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.082/MSA)
1.12	Sediment Balance: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.083/MSA)
1.13	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/07.084/MSA)
1.14	Annual Sediment Balance (I/RA/11283/07.085/MSA)
Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) & Frame measurements, Through tide measurements (SiltProfiling & ADCP)	
2.1	Through tide measurement Siltprofiler 21/03/2006 Laure Marie (I/RA/11283/06.087/WGO)
2.2	Through tide measurement Siltprofiler 26/09/2006 Stream (I/RA/11283/06.068/MSA)
2.3	Through tide measurement Sediview spring tide 22/03/2006 Veremans (I/RA/11283/06.110/BDC)
2.4	Through tide measurement Sediview spring tide 27/09/2006 Parel 2 (I/RA/11283/06.119/MSA)
2.5	Through tide measurement Sediview average tide 24/10/2007 Parel 2 (I/RA/11283/06.120/MSA)
2.6	Salinity-Silt distribution & Frame Measurements Deurganckdok 13/3/2006 – 31/05/2006 (I/RA/11283/06.121/MSA)
2.7	Salinity -Silt distribution & Frame Measurements Deurganckdok 15/07/2006 – 31/10/2006 (I/RA/11283/06.122/MSA)
2.8	Salinity-Silt distribution & Frame Measurements Deurganckdok 12/02/2007 – 18/04/2007 (I/RA/11283/06.123/MSA)
2.9	Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)
2.10	Through tide measurement Siltprofiler 23 October 2007 (I/RA/11283/07.086/MSA)
2.11	Through tide measurement Salinity Profiling winter (I/RA/11283/07.087/MSA)
2.12	Through tide measurement Sediview winter 11 March 2008 Transect I (I/RA/11283/07.088/MSA)

Report	Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2008
2.13	Through tide measurement Sediview winter 11 March 2008 Transect K (I/RA/11283/07.089/MSA)
2.14	Through tide measurement Sediview winter 11 March 2008 Transect DGD (I/RA/11283/07.090/MSA)
2.15	Through tide measurement Siltprofiler 12 March 2008 (I/RA/11283/07.091/MSA)
2.16	Salinity-Silt distribution Deurganckdok summer (21/6/2007 – 30/07/2007) (I/RA/11283/07.092/MSA)
2.17	Salinity-Silt distribution & Frame Measurements Deurganckdok autumn (17/09/2007 - 10/12/2007) (I/RA/11283/07.093/MSA)
2.18	Salinity-Silt distribution & Frame Measurements Deurganckdok winter (18/02/2008 - 31/3/2008) (I/RA/11283/07.094/MSA)
2.19	Calibration stationary & mobile equipment winter (I/RA/11283/07.096/MSA)
Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels	
3.1	Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA) including HCBS 2 report 5.5
3.2	Boundary conditions: Annual report (I/RA/11283/06.128/MSA)³
3.10	Boundary conditions: Three monthly report 1/4/2007 – 30/06/2007 (I/RA/11283/07.097/MSA)
3.11	Boundary conditions: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.098/MSA)
3.12	Boundary conditions: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.099/MSA)
3.13	Boundary conditions: Three monthly report 1/1/2008 – 31/03/2008 (I/RA/11283/07.100/MSA)
3.14	Boundary conditions: Annual report (I/RA/11283/07.101/MSA)
Analysis	
4.1	Analysis of Siltation Processes and Factors, 4/06 – 3/07 (I/RA/11283/06.129/MSA)
4.10	Analysis of Siltation Processes and Factors, 4/07 – 3/08 (I/RA/11283/07.102/MSA)

³ considered in report 5.6 'Analysis of ambient conditions during 2006' (I/RA/11291/06.091/MSA) in the framework of the study 'Extension of the study about density currents in the Beneden Zeeschelde'

Report	Description of Opvolging aanslibbing Deurganckdok between April 2008 till March 2010
Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities	
1.20	Sediment Balance: Three monthly report 1/4/2008 - 30/6/2008 (I/RA/11283/08.076/MSA)
1.21	Sediment Balance: Three monthly report 1/7/2008 – 30/9/2008 (I/RA/11283/08.077/MSA)
1.22	Sediment Balance: Three monthly report 1/10/2008 – 31/12/2008 (I/RA/11283/08.078/MSA)
1.23	Sediment Balance: Three monthly report 1/1/2009 – 31/03/2009 (I/RA/11283/08.079/MSA)
1.24	Annual Sediment Balance (I/RA/11283/08.080/MSA)
Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) & Frame measurements, Through tide measurements (SiltProfiling & ADCP) & Calibrations	
2.20	Through tide measurement Sediview DGD during average tide Spring 2008 – 19 June 2008 (I/RA/11283/08.081/MSA)
2.21	Through tide measurement Sediview DGD during average tide Spring 2008 – 26 June 2008 (I/RA/11283/08.082/MSA)
2.22	Through tide measurement Sediview DGD during neap tide Summer 2008 – 24 September 2008 (I/RA/11283/08.083/MSA)
2.23	Through tide measurement Sediview DGD during spring tide Summer 2008 – 30 September 2008 (I/RA/11283/08.084/MSA)
2.24	Through tide measurement Sediview DGD during neap tide Autumn 2008 – 02 December 2008 (I/RA/11283/08.085/MSA)
2.25	Through tide measurement Sediview DGD during spring tide Autumn 2008 – 10 December 2008 (I/RA/11283/08.086/MSA)
2.26	Through tide measurement Sediview DGD during neap tide Winter 2009 – 06 March 2009 (I/RA/11283/08.087/MSA)
2.27	Through tide measurement Sediview DGD during spring tide Winter 2009 – 12 March 2009 (I/RA/11283/08.088/MSA)
2.28	Through tide measurement ADCP eddy DGD Summer 2008 – 1 October 2008 (I/RA/11283/08.089/MSA)
2.29	Through tide measurement Siltprofiler DGD Summer 2008 – 29 September 2008 (I/RA/11283/08.090/MSA)
2.30	Through tide measurement Siltprofiler DGD Winter 2009 – 13 March 2009 (I/RA/11283/08.091/MSA)
2.31	Through tide measurement Salinity Profiling DGD Winter 2009 – 11 March 2009 (I/RA/11283/08.092/MSA)
2.32	Salt-Silt distribution Deurganckdok: Six monthly report 1/4/2008 - 30/9/2008 (I/RA/11283/08.093/MSA)
2.33	Salt-Silt distribution Deurganckdok: Six monthly report 1/10/2008 – 31/3/2009 (I/RA/11283/08.094/MSA)
2.34	Calibration stationary & mobile equipment Autumn 2008 – 27 & 28 October 2008 (I/RA/11283/08.095/MSA)

Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels	
3.20	Boundary conditions: Six monthly report 1/4/2008 – 30/09/2008 (I/RA/11283/08.097/MSA)
3.21	Boundary conditions: Six monthly report 1/10/2008 – 31/03/2009 (I/RA/11283/08.097/MSA)
Analysis	
4.20	Analysis of Siltation Processes and Factors (I/RA/11283/08.098/MSA)