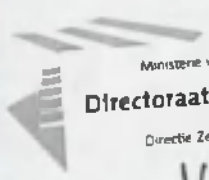


DI 40097



Ministerie van Verkeer en Waterstaat

Directoraat-Generaal Rijkswaterstaat

Directie Zeeland

Nummer: K 1826



Bibliothek Koestr. 30, tel. 0118-486362  
postbus 5014, 4330 KA Middelburg



DT: 40077

**Debietmeting (ADCP)**  
**Westerschelde mond Raai - 11**  
27 november 1997

Deelraai - A



**Meetdienst Zeeland**

Notitie nr. ZLMD-97.N.048A  
Afdeling AXMH  
Vlissingen, juni 1998

## Notitie

**Nummer:** ZLMD-97.048A  
**Onderwerp:** Meetresultaten  
Debietmeting Raai - 11(A)  
**Datum:** 27 november 1997

**Code:** 1819M9701  
**Datum:** juni 1998  
**Auteur:** Verwerking Hydrografie  
**Bijlagen:** 10

## 1. ALGEMEEN

In het kader van het projekt KUST-2000 werd op 27 november 1997 een debietmeting uitgevoerd in de monding van de Westerschelde, met name debietraai 11; deelraai - A (Wielingen)

Voor de situering van de meetraai zie bijlage 1.

De raaigegevens staan vermeld in de bijlage 2.

## 2. UITVOERING

De meting is uitgevoerd met de ADCP (Acoustic Doppler Current Profiler) waarbij de raai varend werd doorgemeten. Er zijn in totaal 39 metingen uitgevoerd. Bijlage 3 geeft een overzicht van alle gevaren tracks.

Voor het bepalen van de positie is gebruik gemaakt van het DGPS-plaatsbepalingssysteem en voor de bepaling van het profiel van RWSLOD.

Meetraai-11A is RWSLOD-raai zta 0000.250; opgenomen tijdens de meting.

Het dwarsprofiel is gepresenteerd in bijlage 4.

## 3. VERTIKAAL GETIJ

Het vertikaal getij werd bepaald aan de registrerende peilschrijver van Vlissingen, VLIS, lokatienummer 140 uit het Zege-meetnet en is grafisch uitgezet tegen de tijd in bijlage 5. De gemiddelde getijgegevens van Vlissingen staan aangegeven in onderstaande tabel. Deze gegevens zijn ontleend aan de "Gemiddelde Getijkromme 1991.0 uitgegeven door RIKZ (Rijksinstituut voor Kust en Zee).

Waterstanden in meters ten opzichte van N.A.P.			
Getij	h.w.	l.w.	tijverschil in m.
Gemiddeld springtij	2.43	2.04	4.47
Gemiddeld getij	2.05	1.81	3.86
Gemiddeld doodtij	1.55	1.47	3.02

Opgetreden getij station Vlissingen				
Datum	m.e.t	h in m	tijverschil in meters	getijcoefficient ten opzichte van gemiddeld getij
27-11-1997	00.00	1.71		
27-11-1997	07.00	-1.89	eb 3.60	0.93264
27-11-1997	12.05	1.69	vloed 3.58	0.92746
27-11-1997	18.50	-1.69	eb 3.65	0.94560

In deze bijlage 5 is een tabel opgenomen met berekende waterstanden op de lokatie (midden van de meetraai).

#### 4. WEERSOMSTANDIGHEDEN

Gedurende de meting stond er aanvankelijk een zuid oostelijke wind van 4 m/sec. geleidelijk draaiend naar zuid en toenemend tot 6 m/sec.

De windsnelheid en -richting werd gemeten aan de meetopstelling CAWI (Cadzand zege-meetnetlokatiernr. 876), en is samen met het verticale getij van Vlissingen uitgezet in bijlage 6 waarin de meetperiode staan aangegeven.

#### 5. VERWERKING

Na validatie van de ruwe gegevens zijn de volgende bewerkingen uitgevoerd:

\* Overzicht van alle gemeten tracks, waarbij de stroomsnelheden en -richtingen zijn gepresenteerd in het dwarsprofiel. Per blad zijn maximaal 5 tracks gepresenteerd, met een vaste kleurschaal voor de gehele meting. (eb - positief; vloed - negatief). Het tijdvak waarbinnen deze tracks zijn opgenomen is met een blauwe balk weergegeven in de waterstandsgrafiek. Bijlage 7.

\* Presentatie van de gemeten gegevens per transsect. De gebruikte kleurenschaal is vanwege de duidelijkheid per transsect aangepast aan de gemeten snelheden. Ook in deze bijlage 8 zijn de eb-snelheden positief en de vloed-snelheden negatief. In deze presentatie zijn ook de iso-lijnen van gelijke stroomsnelheid ingetekend.

Verder staat in deze bijlage de gemiddelde stroomsnelheid in de vertikaal op vaste afstanden uitgezet in de meetraai als vectoren met dezelfde kleurenschaal. De debiet- en stroomsnelheidsverdeling; zowel loodrecht op de raai als evenwijdig aan de raai staan uitgezet tegen de afstanden in de meetraai. Ook de gevaren track t.o.v. de meetraai staat gepresenteerd met vermelding van de vaarrichting. De maximum gemiddelde snelheid met bijbehorende richting en vermelding van de afstand uit het raai-nulpunt staat zowel numeriek als in de situatie weergegeven. Op het gemiddeld tijdstip van de gevaren track is het doorstroomoppervlak bepaald en bijgeschreven in deze bijlage 8 evenals het berekende debiet. In de getijlijn staat de tijdsperiode van de meting aangegeven.

\* Per transsect zijn nogmaals de ontbonden snelheden loodrecht op de meetraai en evenwijdig aan de meetraai alsmede de verticale stroomsnelheden gepresenteerd in het dwarsprofiel, met vermelding van de iso-lijnen. De kleurenschaal is per grafiek aangepast. Zie bijlage 9.

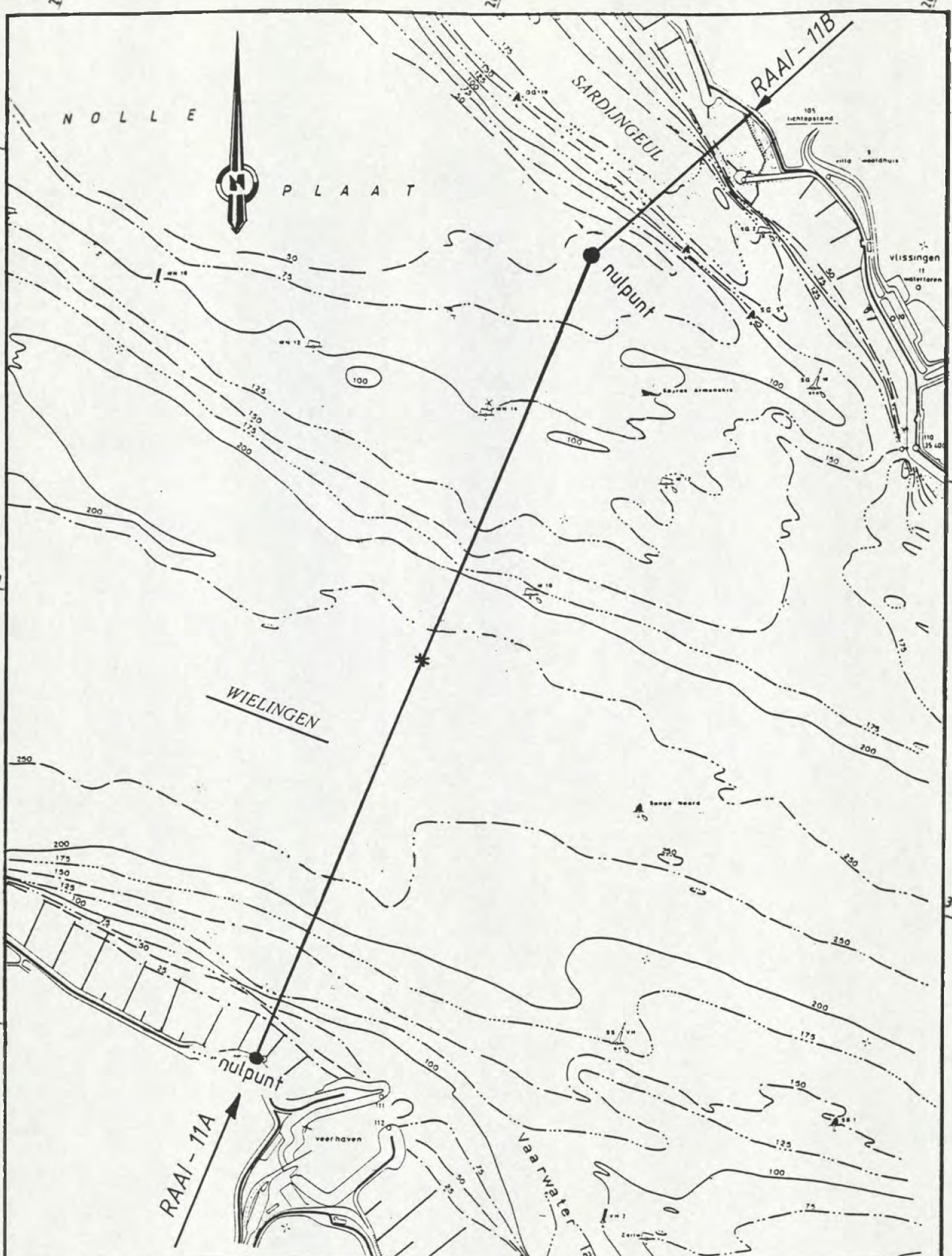
\* In de bijlage 10 zijn de gemeten debieten als grafiek tegen de tijd uitgezet en in tabelvorm (10-minuten). Tevens staat vermeld het totale debiet over de eb- en vloedperiode. De totalen zijn herleid naar het gemiddeld getij 1991.0 (tienjarig gemiddelde) van Vlissingen (386 cm) en is losbladig bijgevoegd als aanvulling op de nota GWAO - 89.1004 (H. de Jong).

N.B.

- In alle presentaties zijn de "witte vlekken" of niet gemeten, of als foute waarnemingen verwijderd. In de debietberekening worden deze wel meegenomen (geïnterpoleerde waarden)

## **6. LIJST VAN BIJLAGEN**

1. Situering meetraai
2. Raaigegevens
3. Overzicht gevaren tracks
4. Dwarsprofiel
5. Opgetreden getij
6. Wind- en getijgegevens
7. Gevalideerde tracks
8. Gemeten gegevens
9. Ontbonden gegevens
10. Debieten



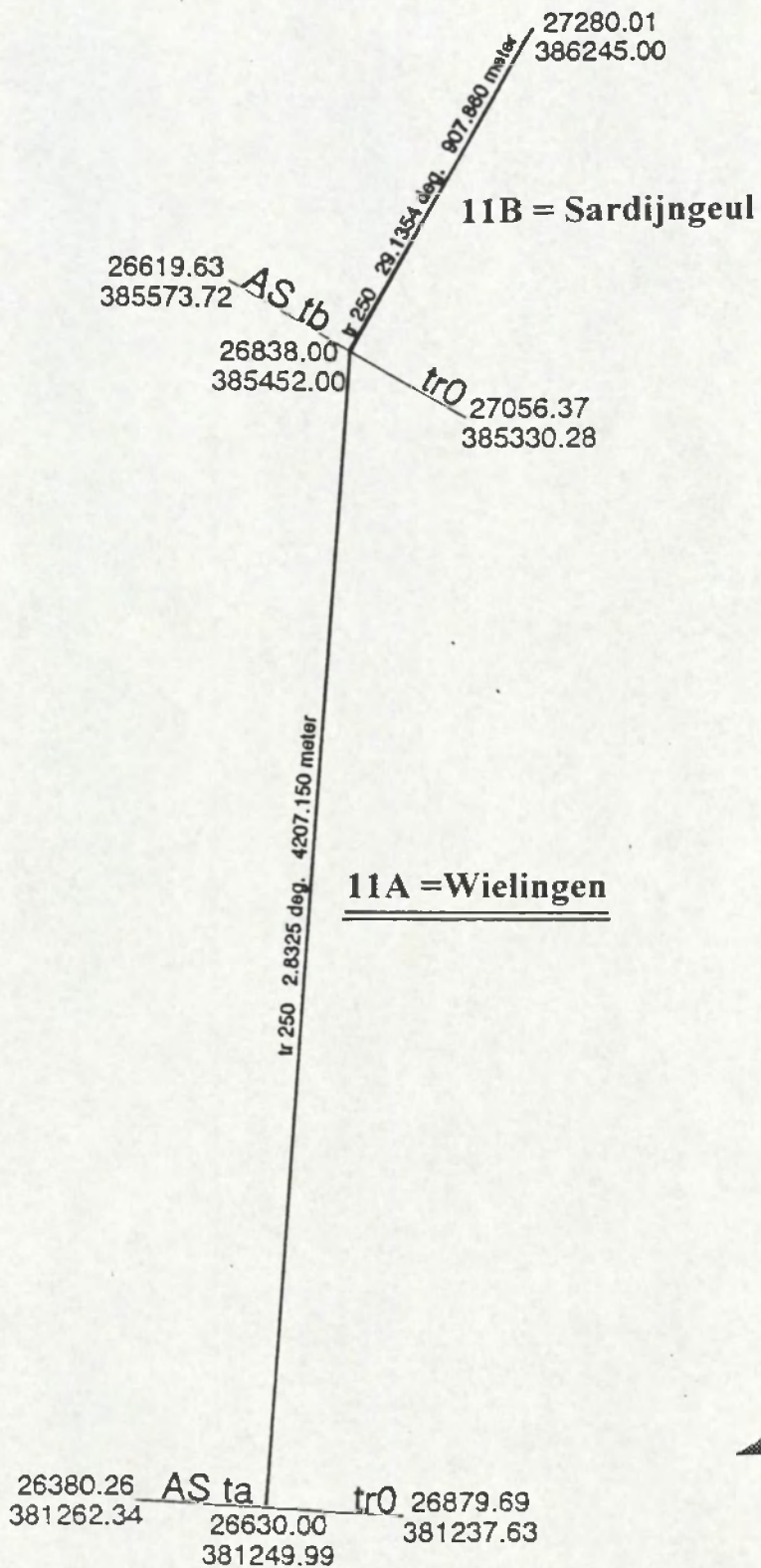
rijkswaterstaat  
directie zeeland - meetdienst

situatie Debietraai - 11  
ADCP-meting d.d. 27 november 1997 (11A)

get.		bijl. 1
gec.	code	18.19M97.01
gez.	schaal	1:25000
akk.	nr.	



# DEBIETRAAI 11

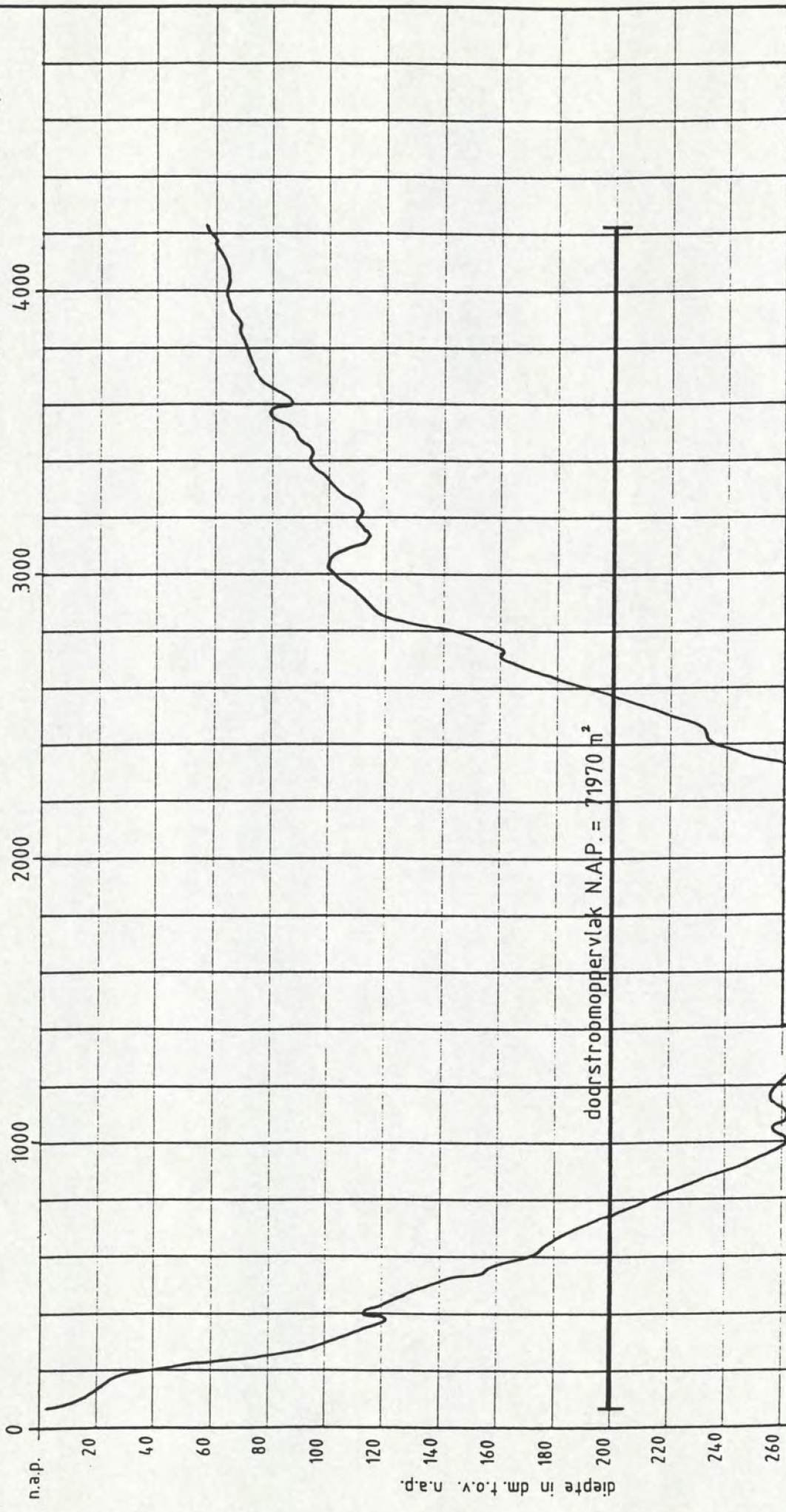


## Overzicht gevaren tracks Deelraai A

ADCP file Nummer	Eb / Vloed /Kentering	Begintijd (M.E.T.)	Eindtijd (M.E.T.)	Koers (deg.)	Vaarsnelheid (knt)	Geluidssnelheid (M/s)
1	Eb	06:17	06:43	182	7	1483
2	Eb	06:44	06:59	2		
3	Kentering	07:05	07:22	182		
4	Vloed	07:23	07:39	2		
5		07:40	07:58	182		
6		08:00	08:17	2		
7		08:18	08:36	182		
8		08:37	08:53	2		
9		08:54	09:11	182		
10		09:17	09:35	2		
11		09:37	09:55	182		
12		09:58	10:14	2		
13		10:17	11:04	182		1485
14		10:42	11:04	2		
15		11:05	11:24	182		
16		11:26	11:44	2		
17		11:45	12:04	182		
18		12:05	12:22	2		
19		12:24	12:42	182		
20	Vloed	12:43	12:59	2		1485
21	kentering	13:02	13:20	182		
22	Eb	13:21	13:40	2		
23		13:41	14:00	182		
24		14:01	14:18	2		
25		14:19	14:41	182		
26		14:42	14:58	2		
27		15:00	15:17	182		
28		15:18	15:36	2		
29		15:39	15:58	182		
30		15:59	16:15	2		
31		16:17	16:38	182		
32		16:39	16:56	2		
33		17:02	17:21	182		1483
34		17:22	17:38	2		
35		17:40	17:49	182		
36		18:00	18:17	2		
37		18:19	18:37	182		
38		18:38	18:55	2		
39	Eb	18:57	19:14	182	7	1483

Wielingen

afstand in meters t.o.v. het nulpunt



doorstroomoppervlak N.A.P. = 71970 m<sup>2</sup>

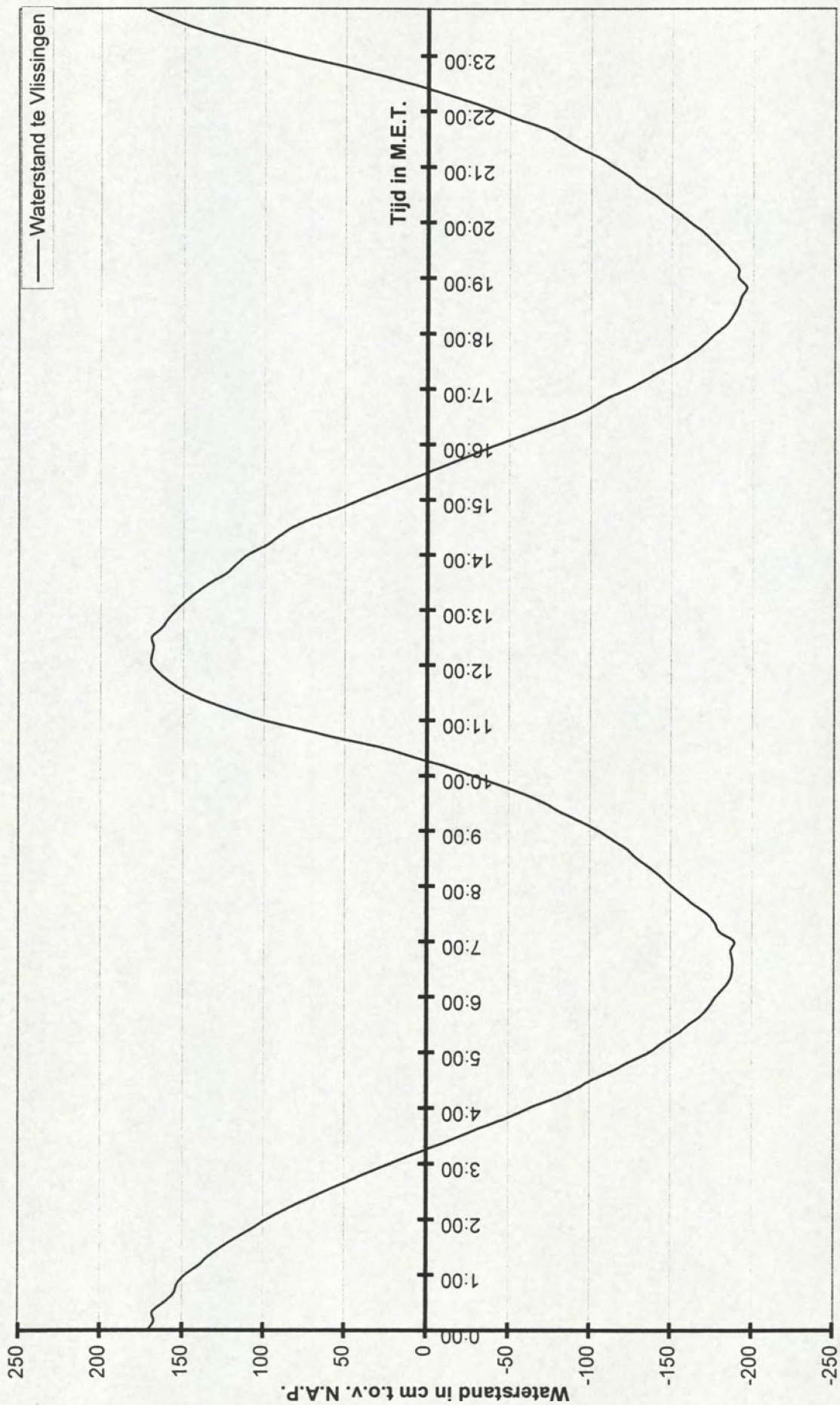
rijkswaterstaaf  
directie zeeland - meetdienst zeeland

Debietraai - 11 deelraai - A  
27 november 1997

get.		bijl. 4
gec.	code 1819M97.01	
gez.	schaal 1:20.000 / 200	
akk.		nr.

## 5. Opgetreden getij

# Waterstand te Vlissingen 27 november 1997



Hydro  
van: do 27-nov-97  
Meteo  
tot: do 27-nov-97  
Centrum  
blad: 1 van 1  
Zeeland

do 27-nov-97  
VLIS WTO2 1 [cm/NAP]  
gevalideerde waterstand ZEGE

MET	:00	:10	:20	:30	:40	:50
00:	171	167	168	161	155	153
01:	148	140	134	126	117	107
02:	98	87	75	62	49	36
03:	22	8	-7	-21	-35	-50
04:	-63	-78	-91	-101	-114	-125
05:	-137	-145	-154	-161	-169	-174
06:	-178	-183	-187	-188	-188	-187
07:	-189	-180	-177	-172	-164	-157
08:	-150	-144	-137	-129	-123	-114
09:	-105	-94	-82	-72	-59	-44
10:	-28	-12	8	27	53	77
11:	101	119	135	148	157	164
12:	169	169	168	169	163	159
13:	154	148	141	133	123	117
14:	110	99	91	82	69	54
15:	41	27	13	-1	-15	-29
16:	-43	-58	-73	-88	-100	-110
17:	-123	-134	-144	-155	-164	-171
18:	-177	-184	-188	-191	-193	-196
19:	-191	-191	-186	-181	-175	-169
20:	-161	-154	-146	-139	-130	-123
21:	-114	-105	-93	-83	-73	-57
22:	-42	-26	-8	11	32	55
23:	80	102	125	144	159	173

waterstanden lokatie Deelraai A ( 9999) uit WTO2 VLIS  
x= 26731. y= 383348.

		0	10	20	30	40	50
971127	0000	165	166	161	154	152	148
	0100	141	135	127	119	109	100
	0200	90	79	66	54	41	27
	0300	14	-1	-15	-29	-43	-57
	0400	-71	-85	-95	-107	-119	-131
	0500	-140	-149	-156	-164	-170	-174
	0600	-179	-183	-186	-186	-185	-187
	0700	-181	-177	-173	-166	-159	-152
	0800	-145	-139	-131	-125	-117	-108
	0900	-98	-87	-76	-65	-51	-35
	1000	-20	-2	17	40	64	89
	1100	109	126	140	150	158	164
	1200	166	165	166	163	158	154
	1300	148	142	134	125	118	112
	1400	102	93	85	74	59	46
	1500	32	19	5	-9	-23	-36
	1600	-51	-66	-81	-94	-104	-116
	1700	-128	-138	-149	-158	-166	-172
	1800	-179	-184	-188	-190	-193	-191
	1900	-189	-186	-181	-176	-170	-163
	2000	-156	-148	-141	-133	-125	-117
	2100	-109	-97	-87	-78	-64	-49
	2200	-34	-17	1	21	43	67
	2300	90	113	133	150	164	175

## 6. Wind- en getijgegevens



the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to address the needs of older people, and the need to ensure that the health care system is able to meet the needs of older people. The Department of Health (2000) has published a strategy for older people, which sets out the government's commitment to improve the health and well-being of older people, and to ensure that the health care system is able to meet the needs of older people.

The strategy for older people is based on three main principles: (1) to improve the health and well-being of older people, (2) to ensure that the health care system is able to meet the needs of older people, and (3) to ensure that older people are able to live independently and actively. The strategy sets out a range of measures that the government is committed to implementing, including: (1) to improve the health and well-being of older people, (2) to ensure that the health care system is able to meet the needs of older people, and (3) to ensure that older people are able to live independently and actively.

The strategy for older people is a key document for the health care system, and it sets out the government's commitment to improve the health and well-being of older people, and to ensure that the health care system is able to meet the needs of older people. The strategy sets out a range of measures that the government is committed to implementing, including: (1) to improve the health and well-being of older people, (2) to ensure that the health care system is able to meet the needs of older people, and (3) to ensure that older people are able to live independently and actively.

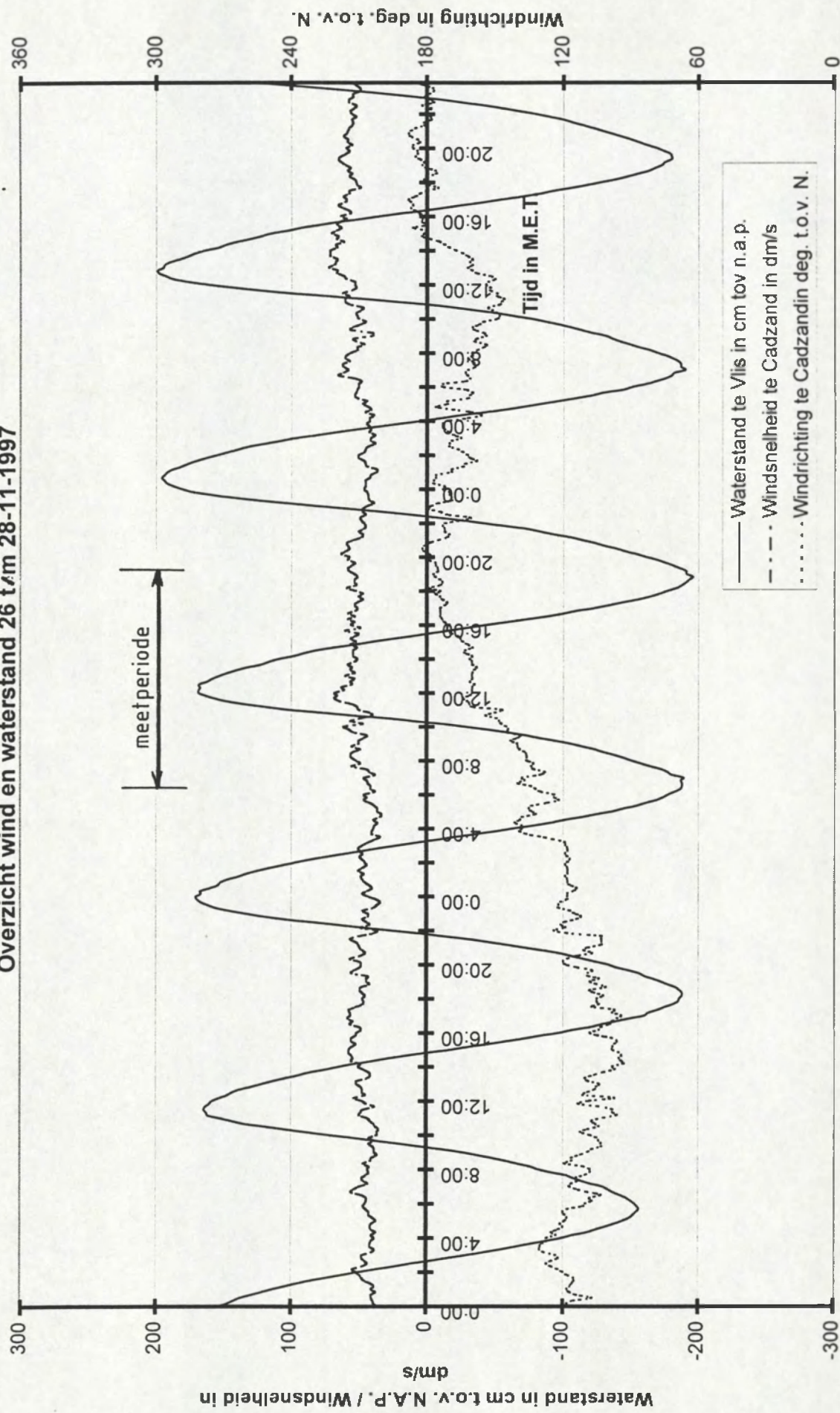
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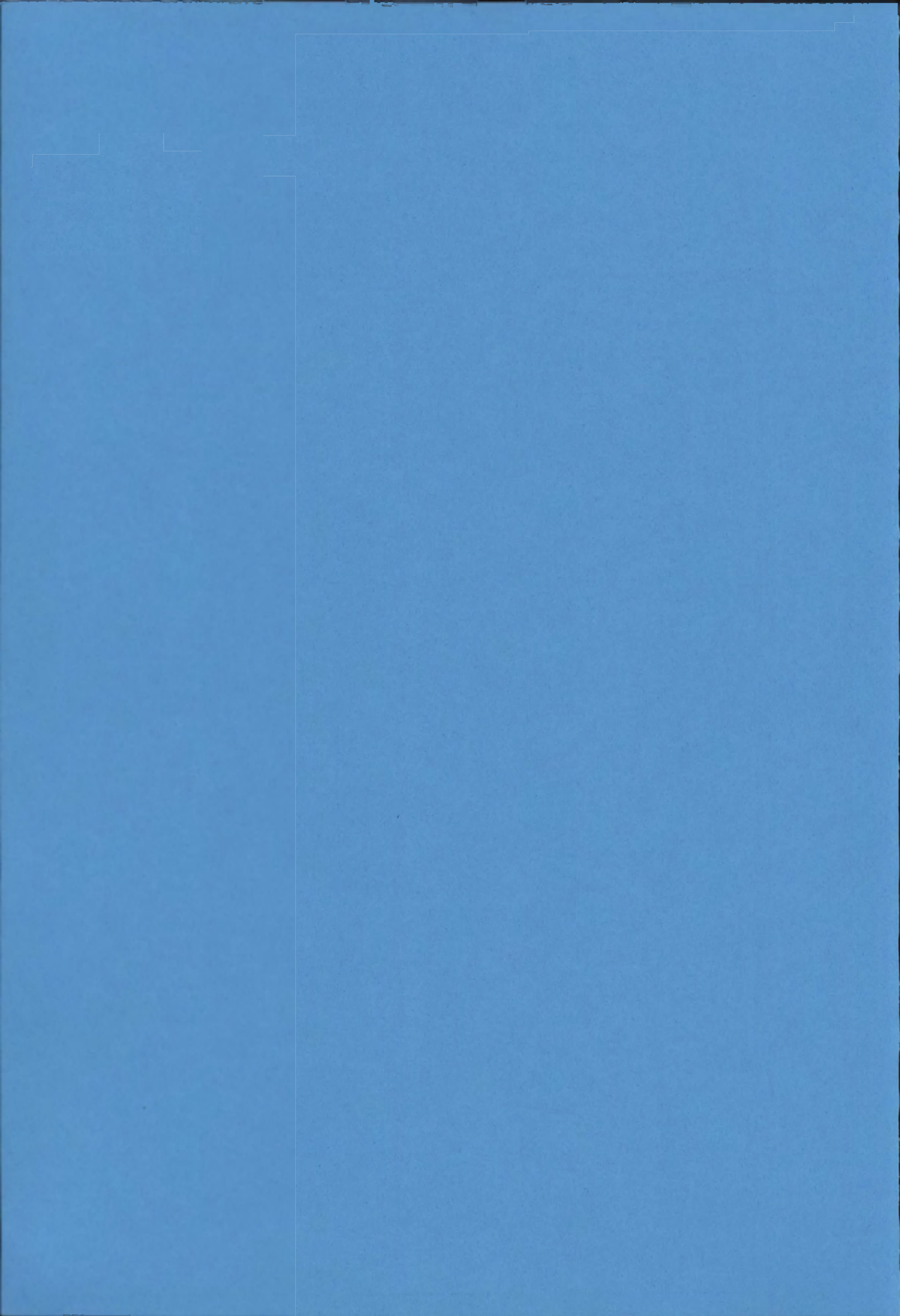
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# Overzicht wind en waterstand 26 t/m 28-11-1997



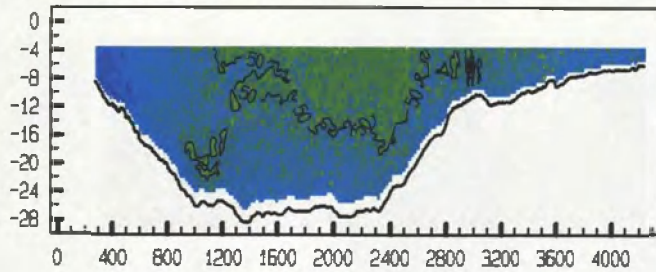
## 7. Gevalideerde tracks



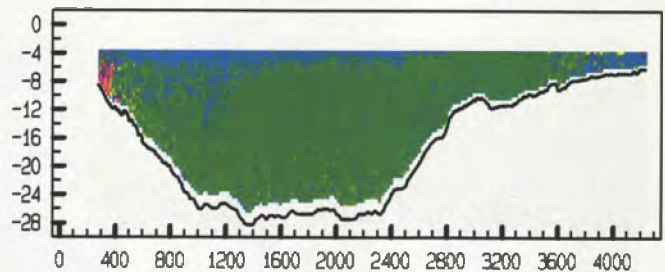
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 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

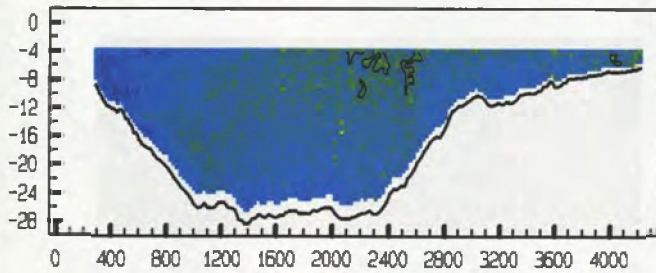
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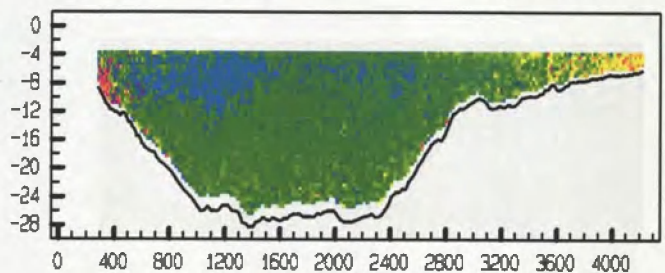
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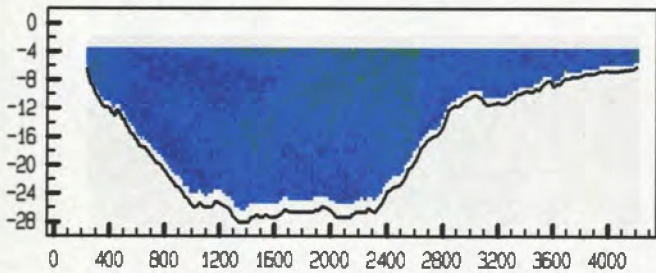
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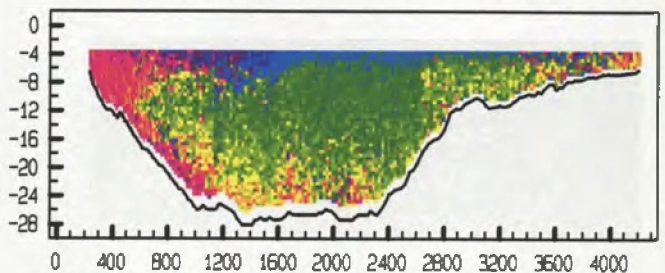
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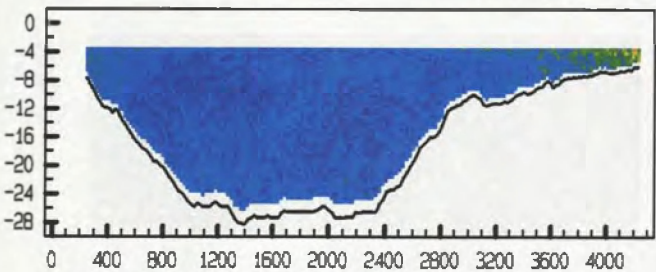
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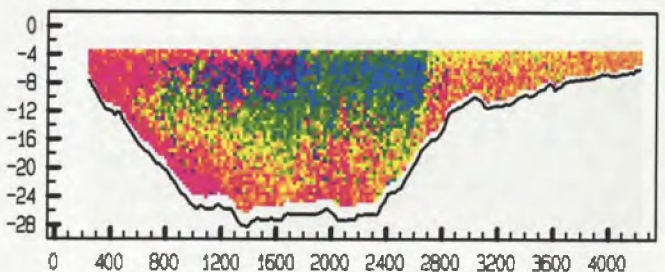
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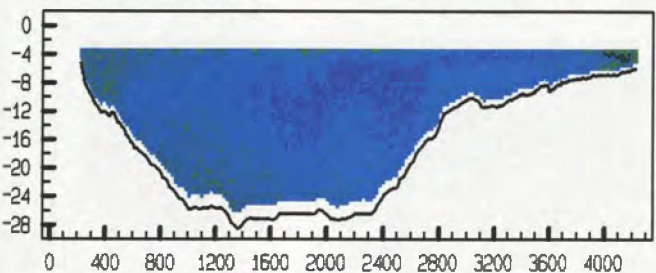
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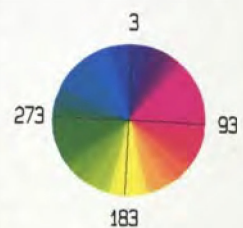
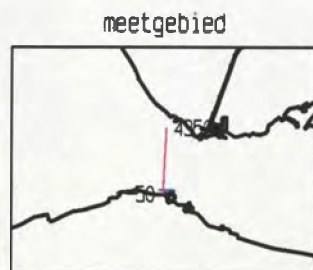
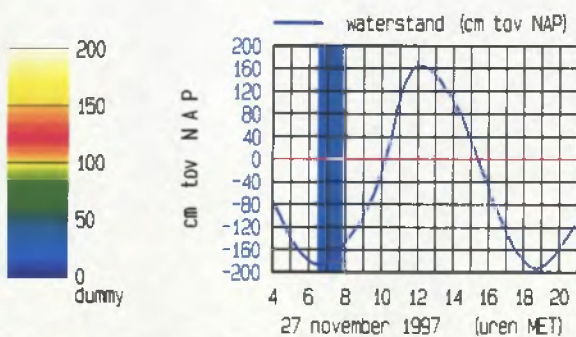
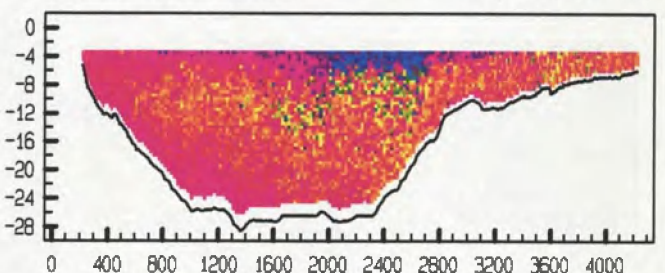
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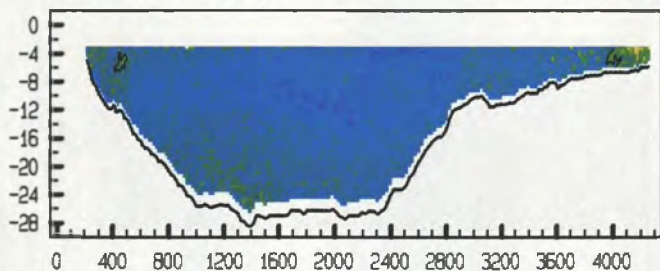
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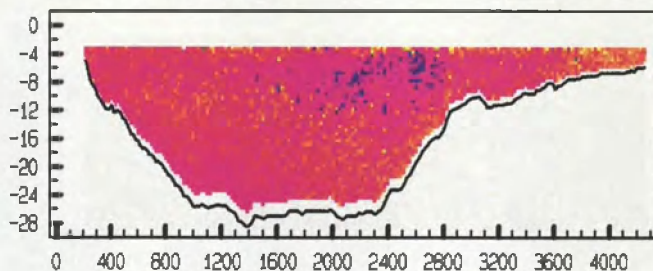
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

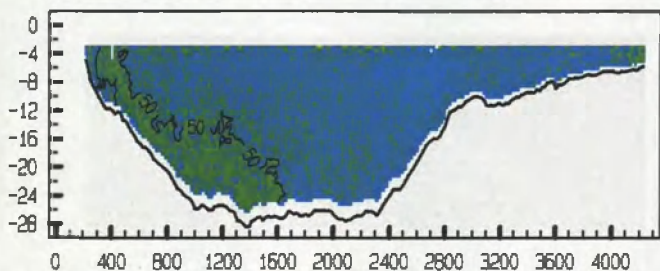
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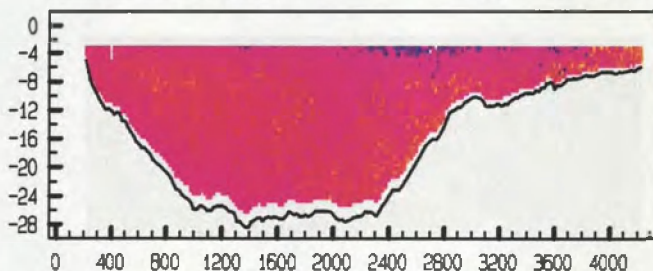
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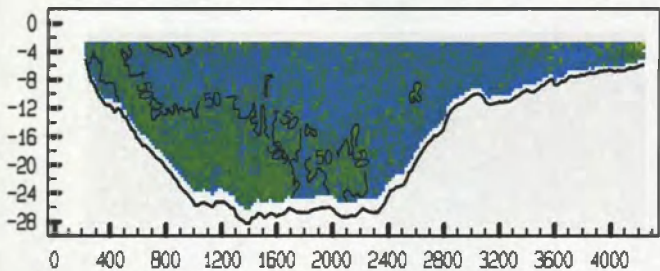
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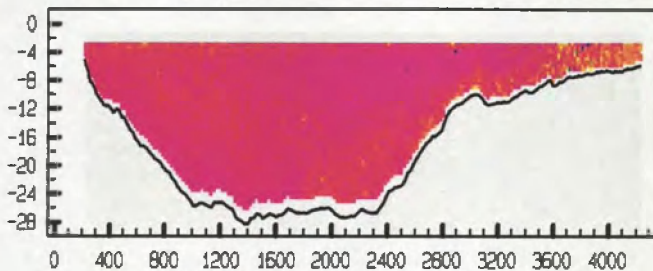
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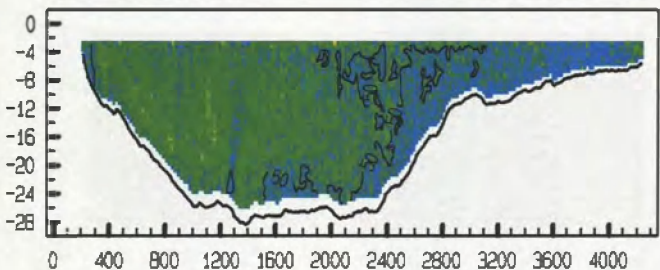
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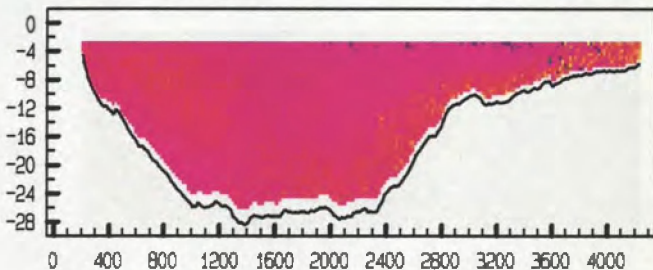
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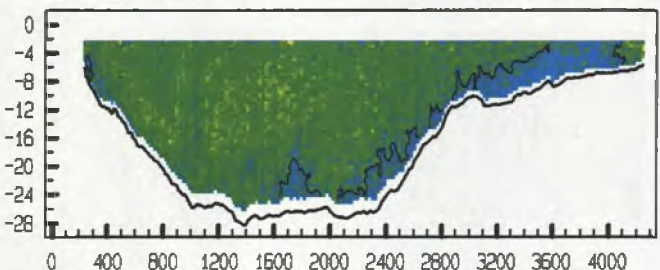
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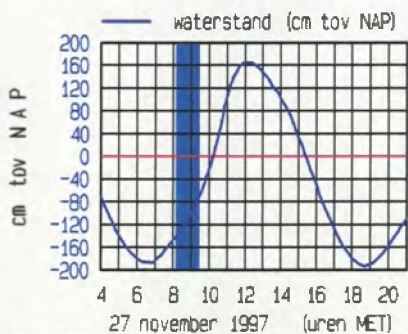
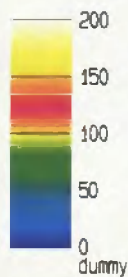
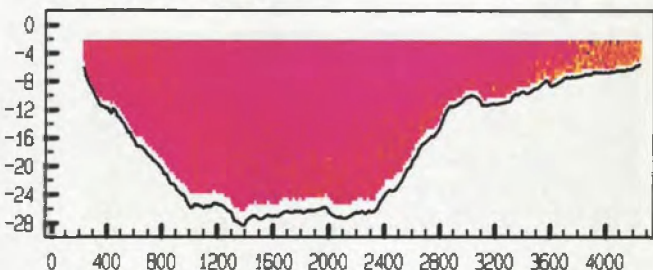
adcpfile : 11da009a.val tijd : 0854 - 0911



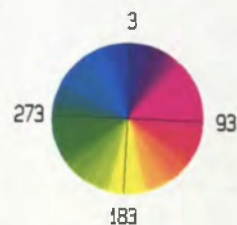
adcpfile : 11da010a.val tijd : 0917 - 0935



adcpfile : 11da010a.val tijd : 0917 - 0935



meetgebied

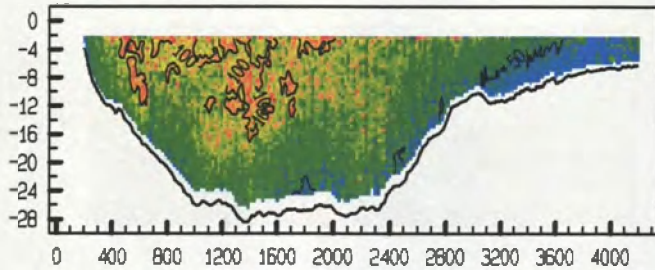


27 november 1997 (uren MET)

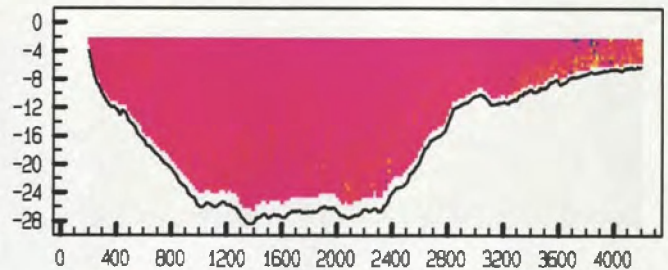
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

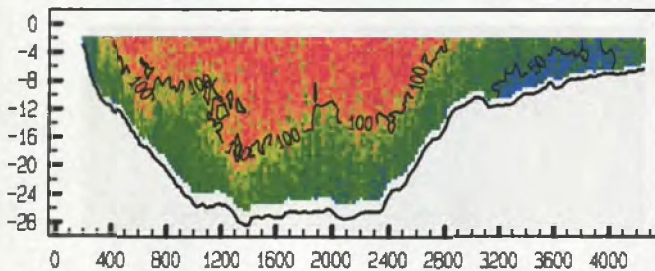
adcpfile : 11da011a.val tijd : 0937 - 0955



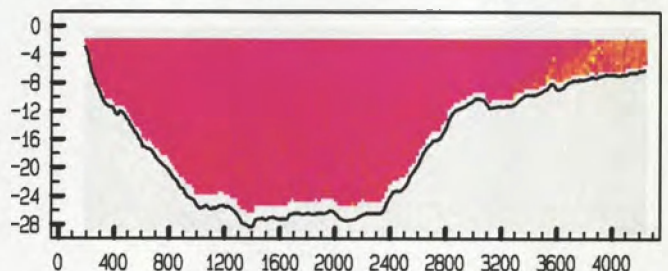
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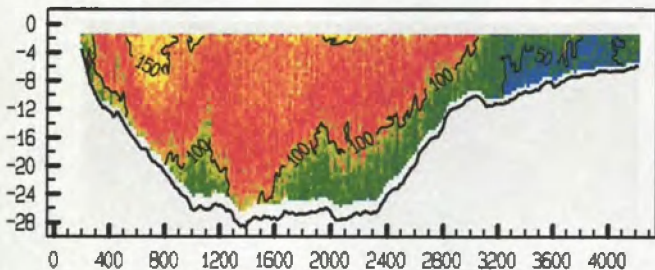
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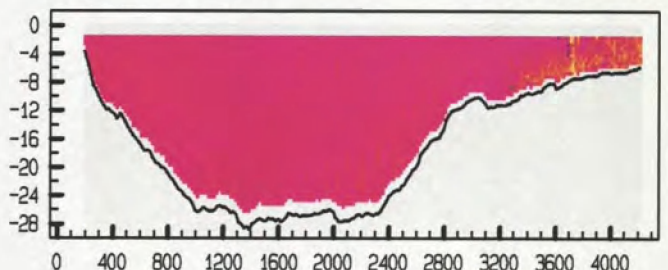
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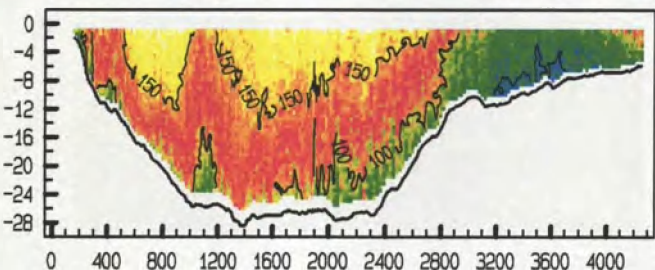
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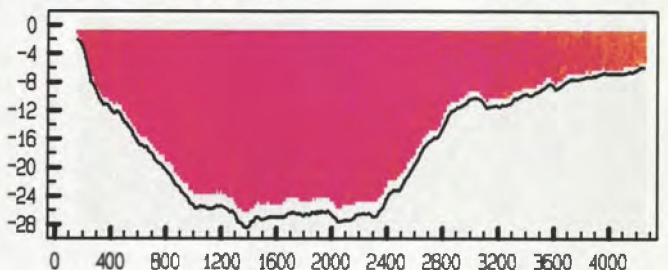
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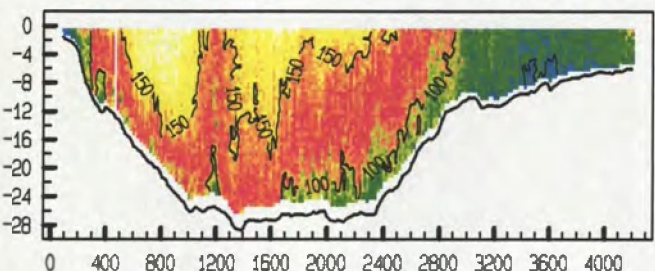
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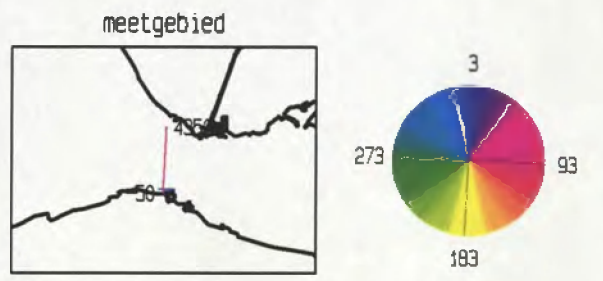
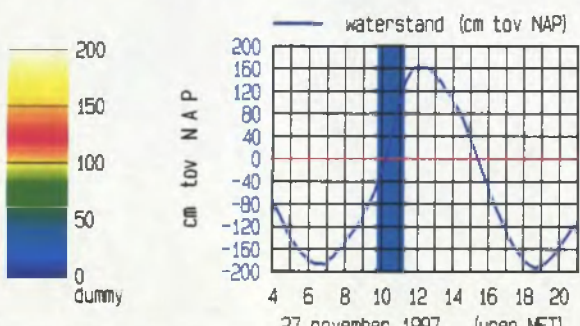
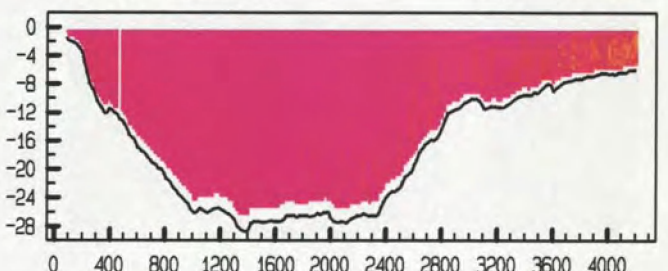
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adcpfile : 11da015a.val tijd : 1105 - 1124



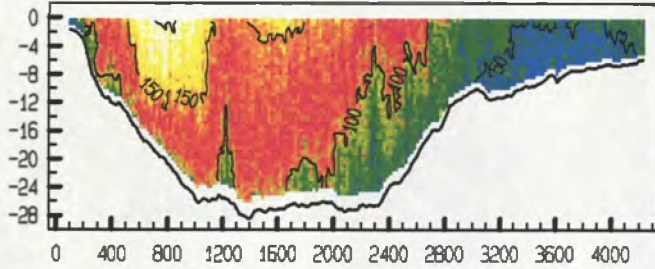
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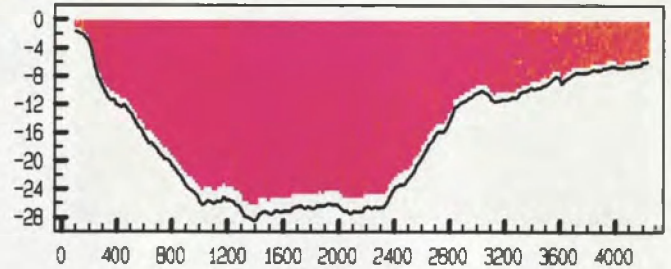
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

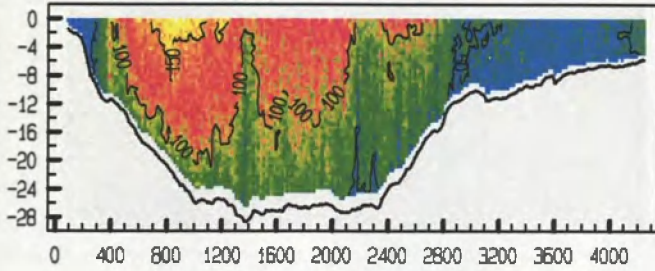
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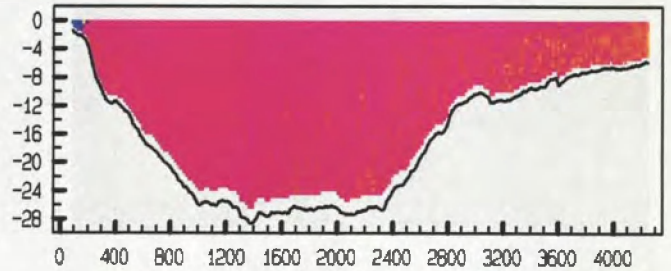
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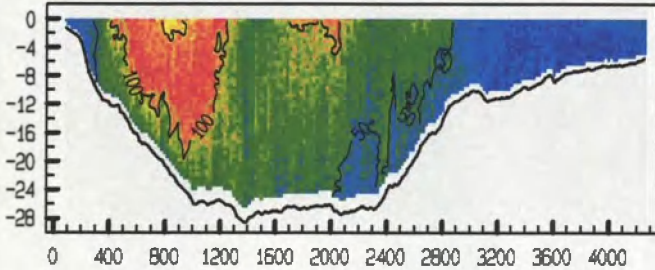
adcfile : 11da017a.val tijd : 1145 - 1204



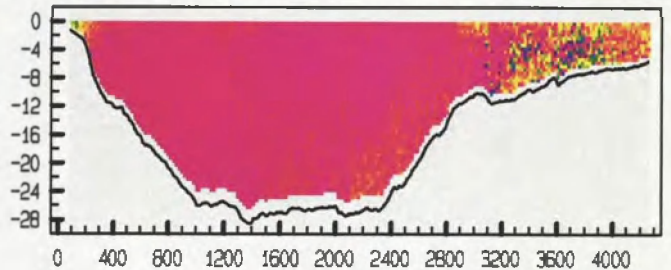
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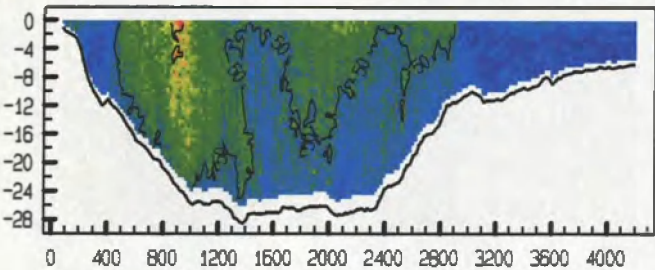
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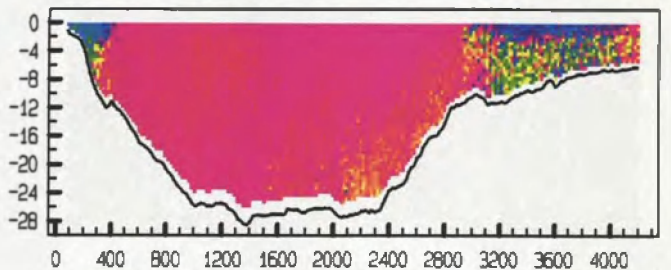
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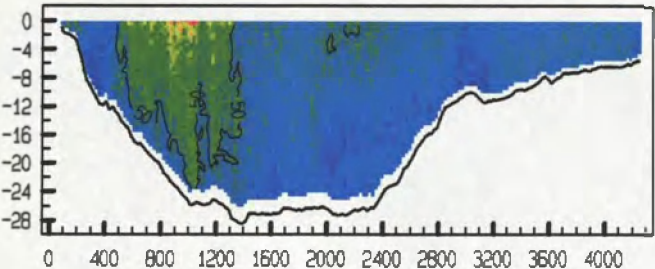
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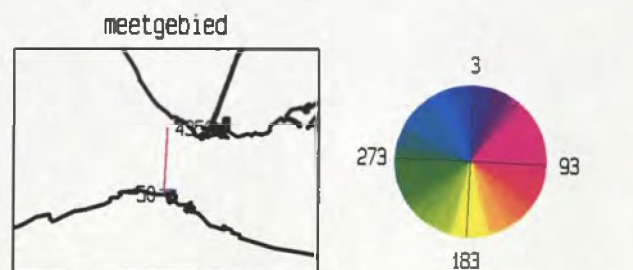
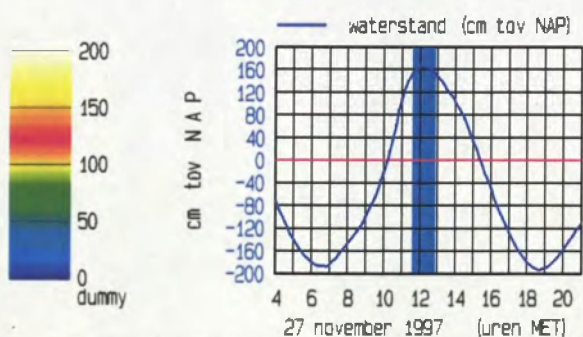
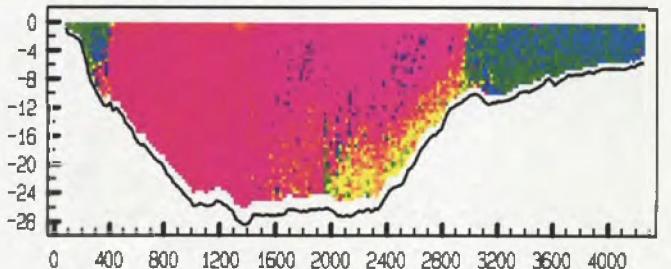
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adcfile : 11da020a.val tijd : 1243 - 1259



adcfile : 11da020a.val tijd : 1243 - 1259

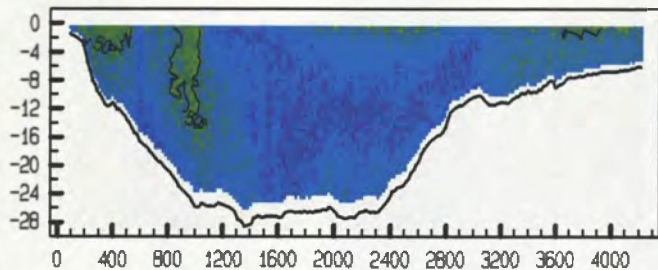




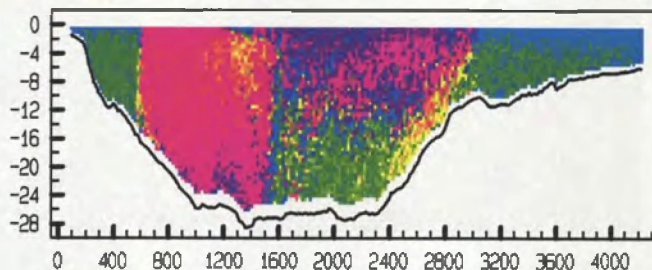
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

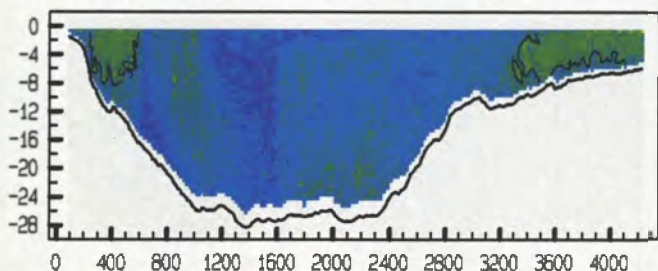
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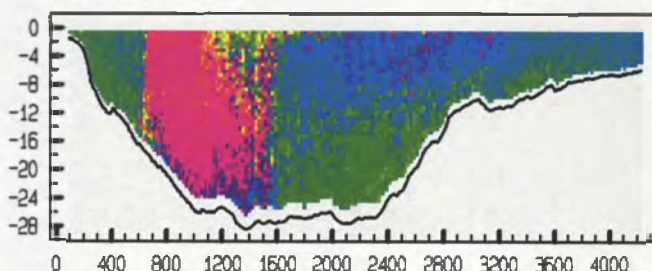
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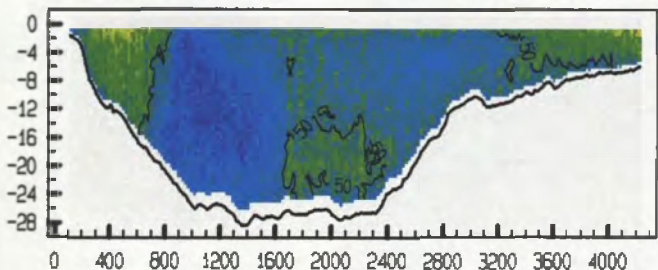
adcpfile : 11da022a.val tijd : 1321 - 1340



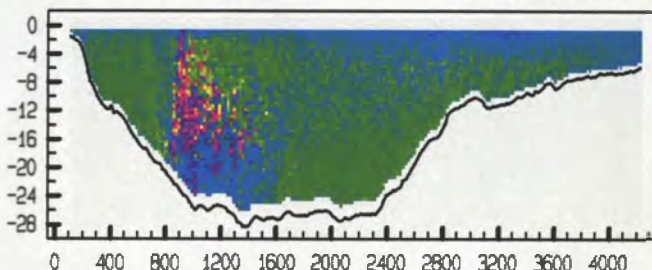
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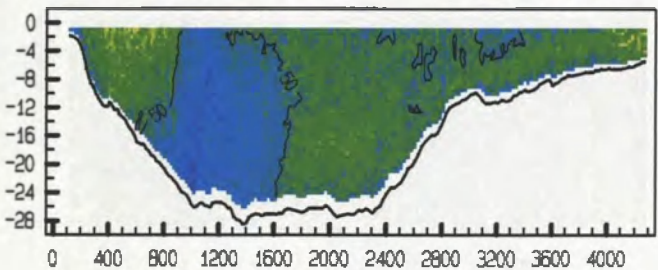
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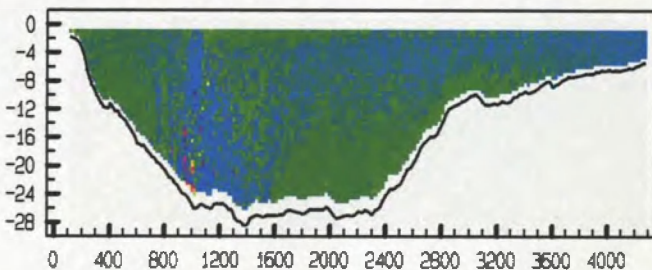
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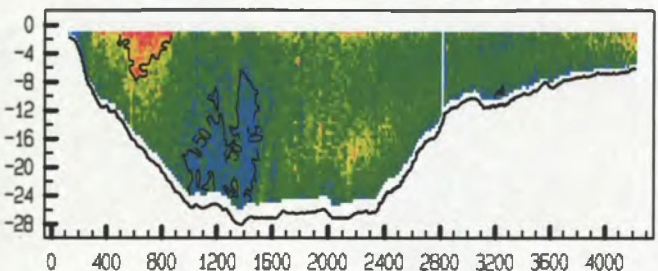
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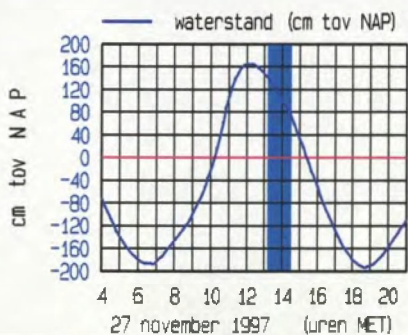
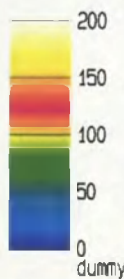
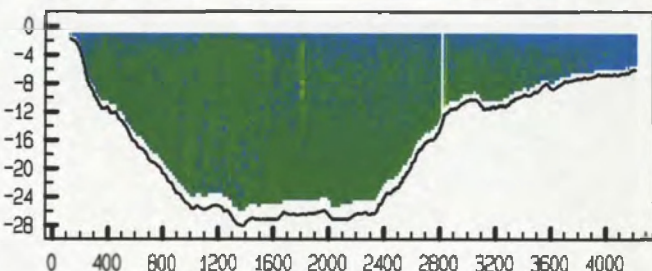
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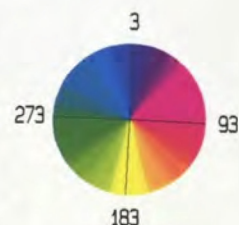
adcpfile : 11da025a.val tijd : 1419 - 1441



adcpfile : 11da025a.val tijd : 1419 - 1441



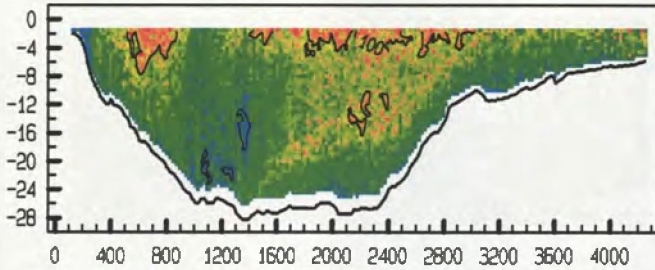
meetgebied



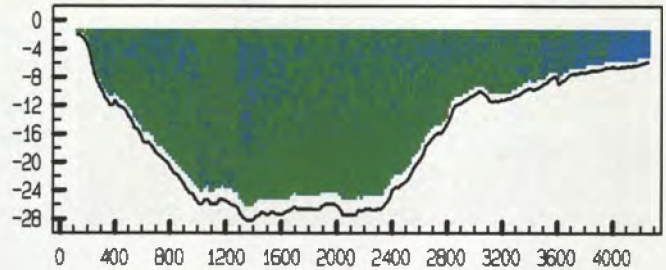
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

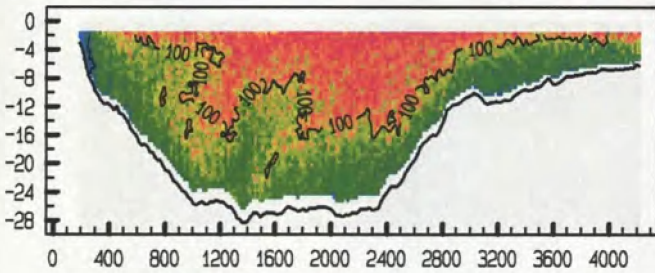
adcpfile : 11da026a.val tijd : 1442 - 1458



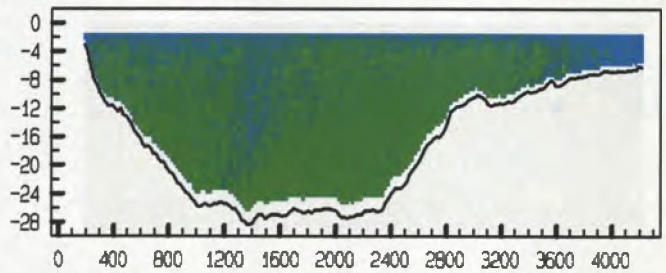
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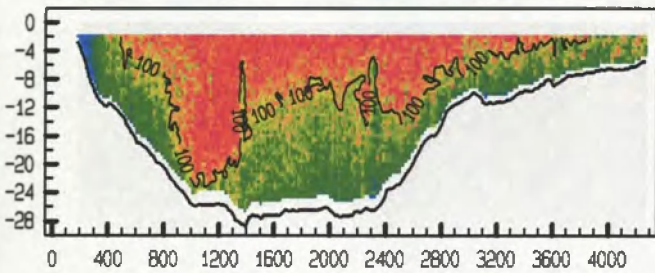
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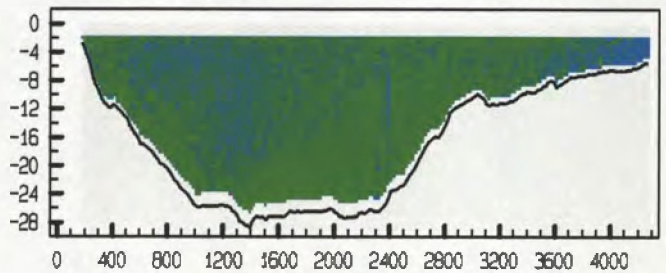
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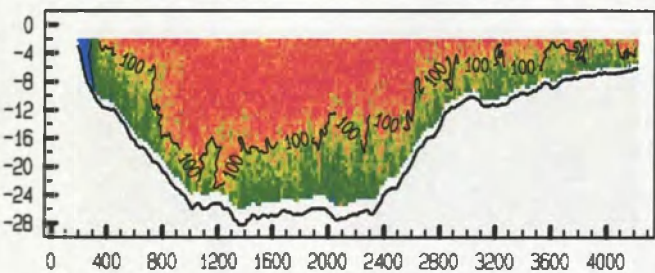
adcpfile : 11da028a.val tijd : 1518 - 1536



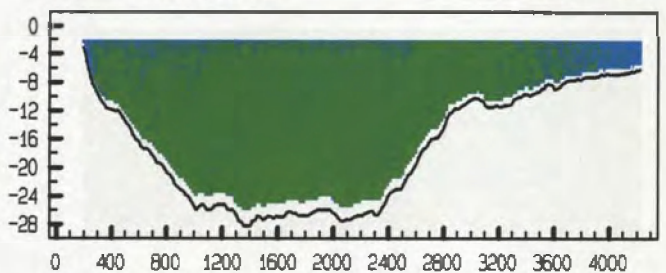
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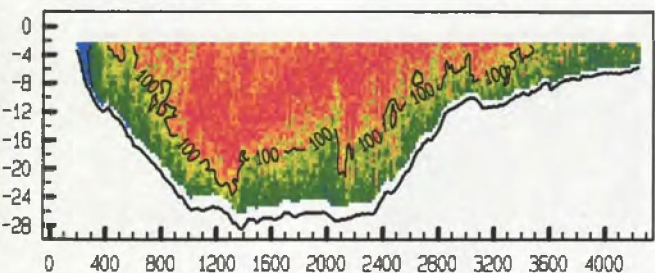
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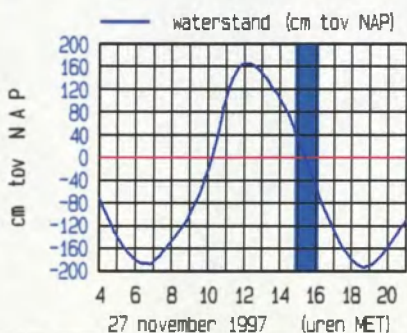
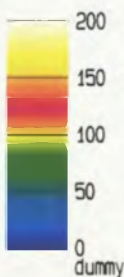
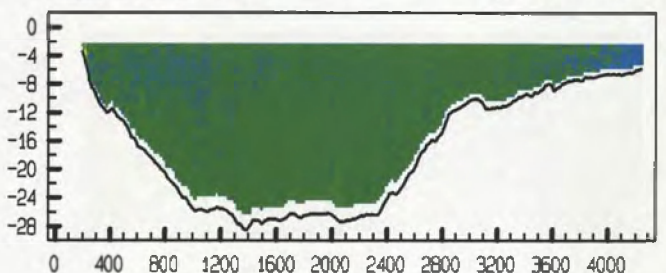
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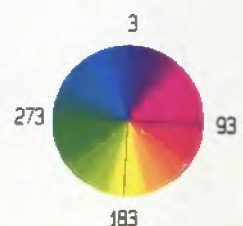
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adcpfile : 11da030a.val tijd : 1559 - 1615



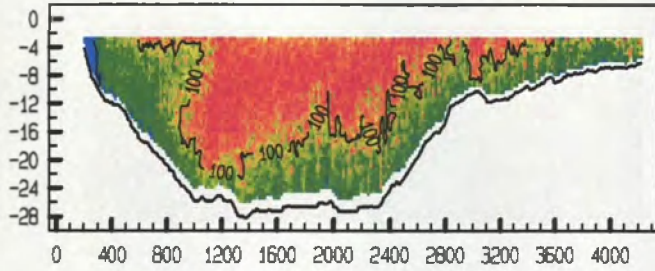
meetgebied



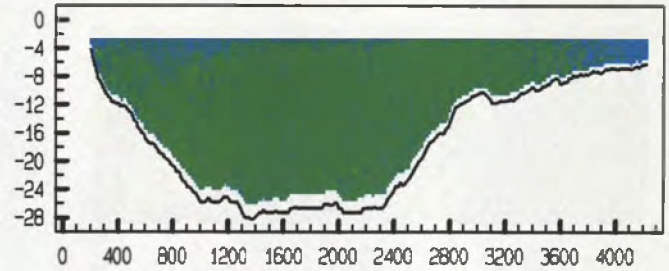
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

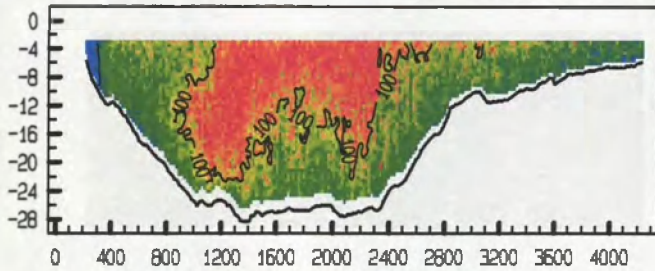
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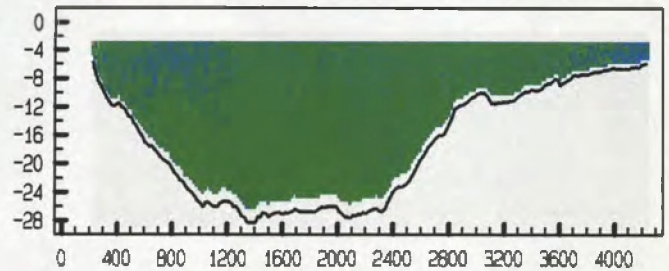
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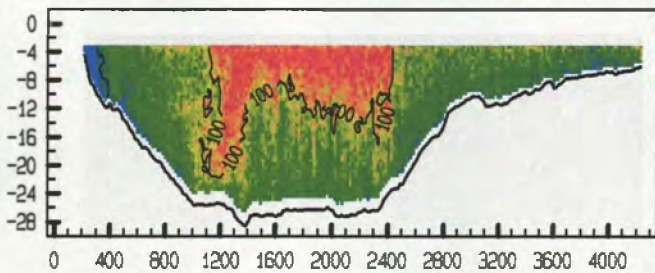
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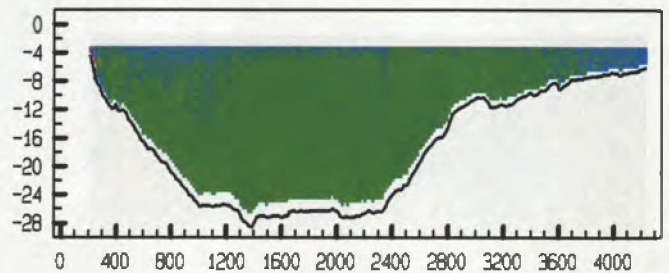
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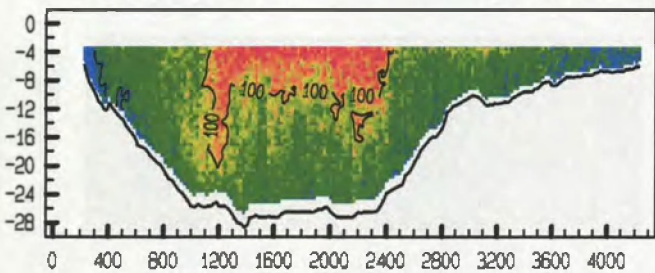
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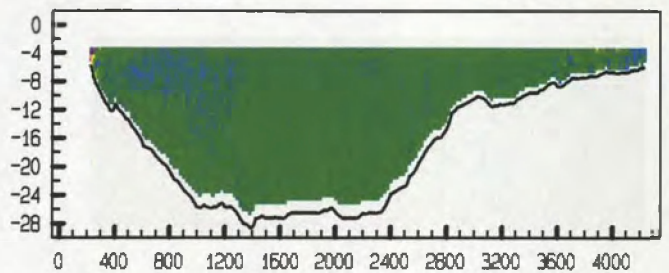
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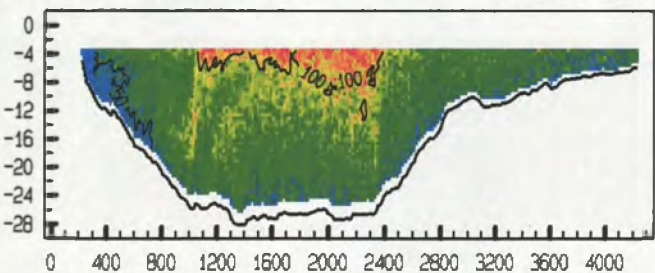
adcpfile : 11da034a.val tijd : 1722 - 1738



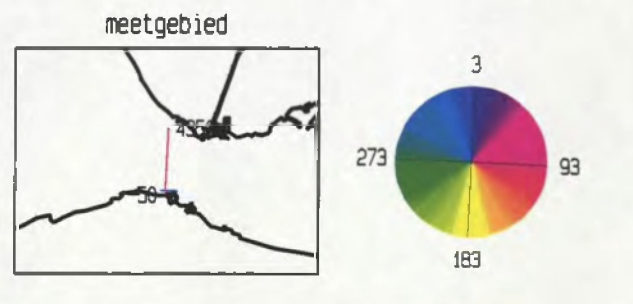
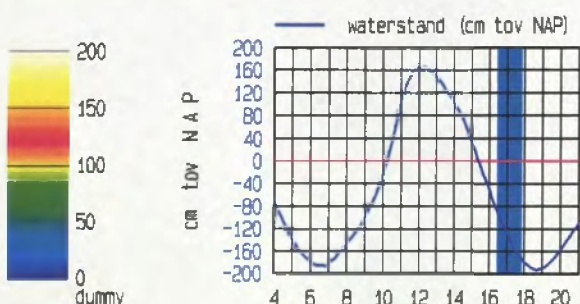
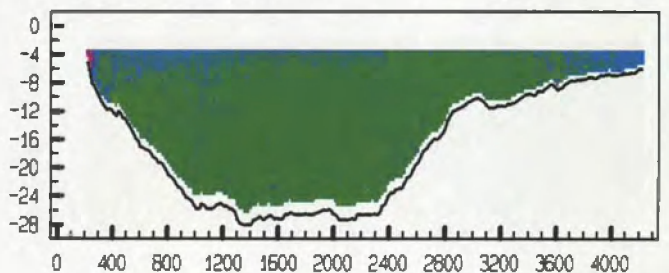
adcpfile : 11da034a.val tijd : 1722 - 1738



adcpfile : 11da035a.val tijd : 1740 - 1759



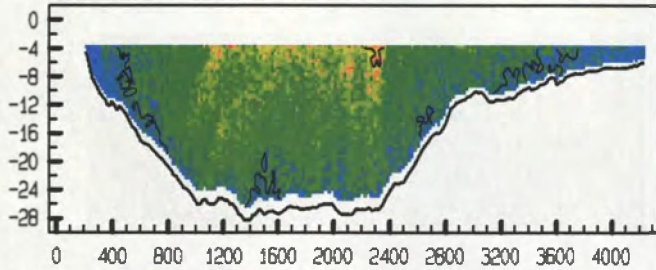
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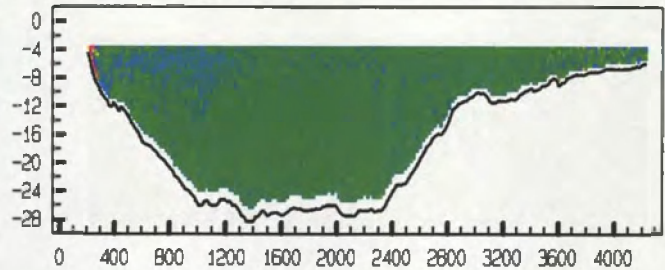
Debietraai 11 deelraai A dd 27 november 1997  
 gemeten snelheid (cm/sec)

gemeten richting (° tov N)

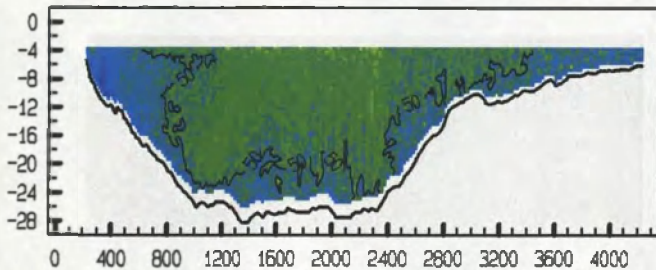
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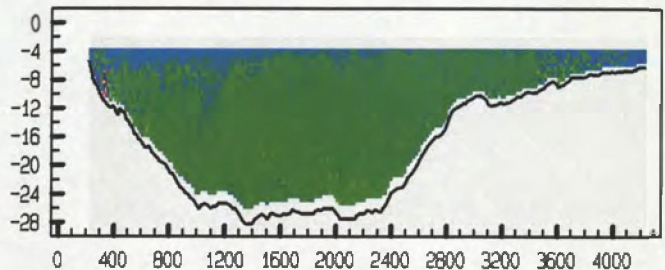
adcpfile : 11da036a.val tijd : 1800 - 1817



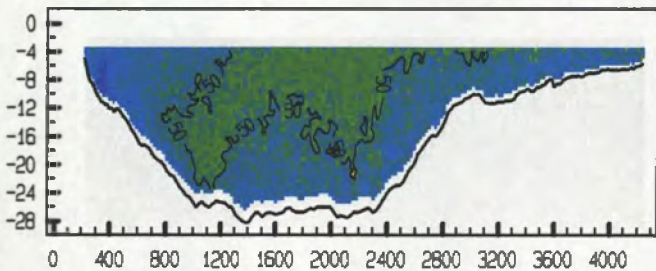
adcpfile : 11da037a.val tijd : 1819 - 1837



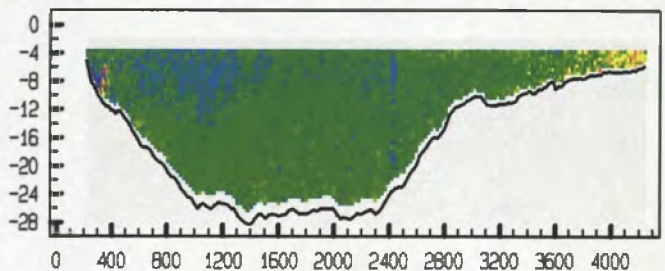
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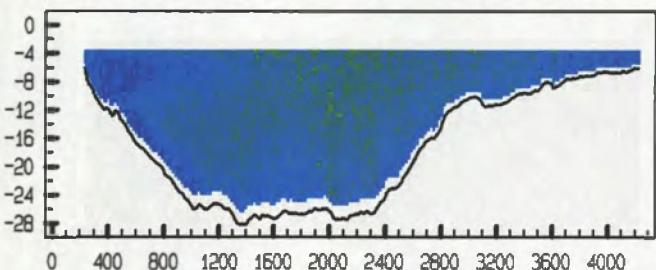
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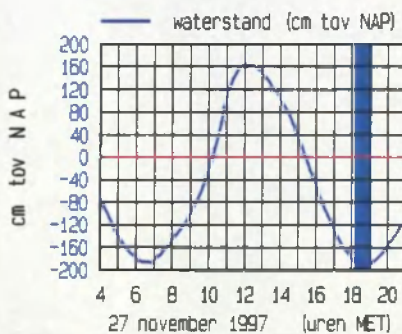
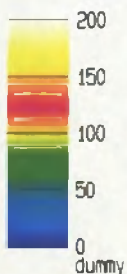
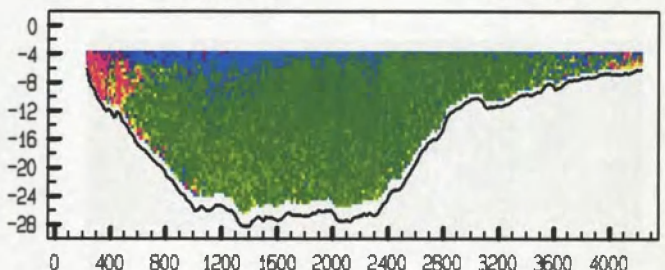
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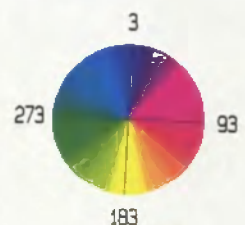
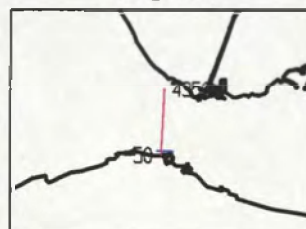
adcpfile : 11da039a.val tijd : 1857 - 1914



adcpfile : 11da039a.val tijd : 1857 - 1914

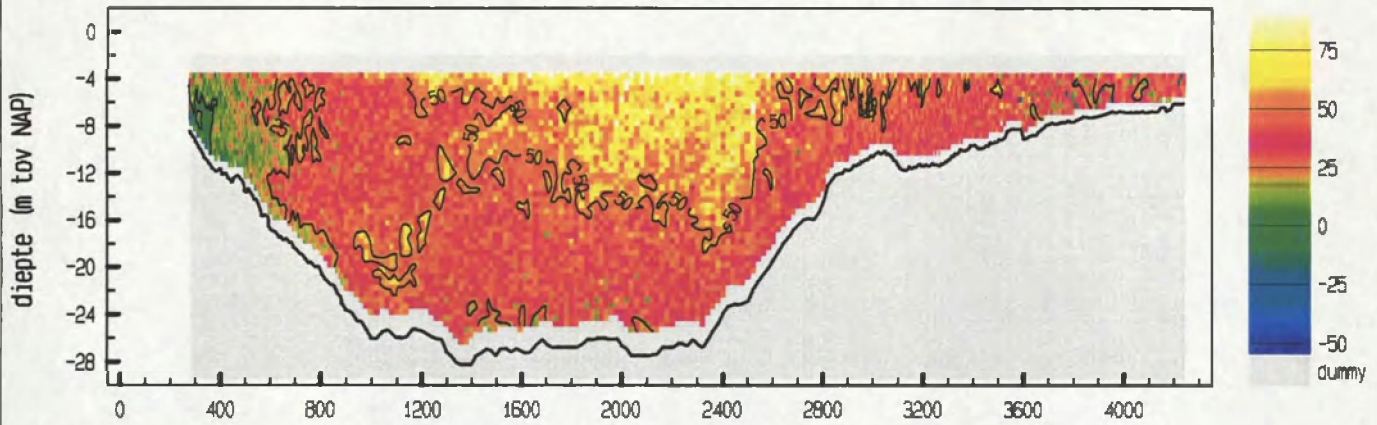


meetgebied

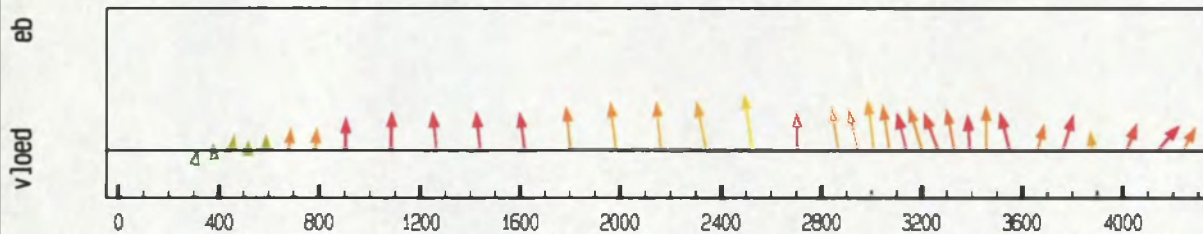


## 8. Gemeten gegevens

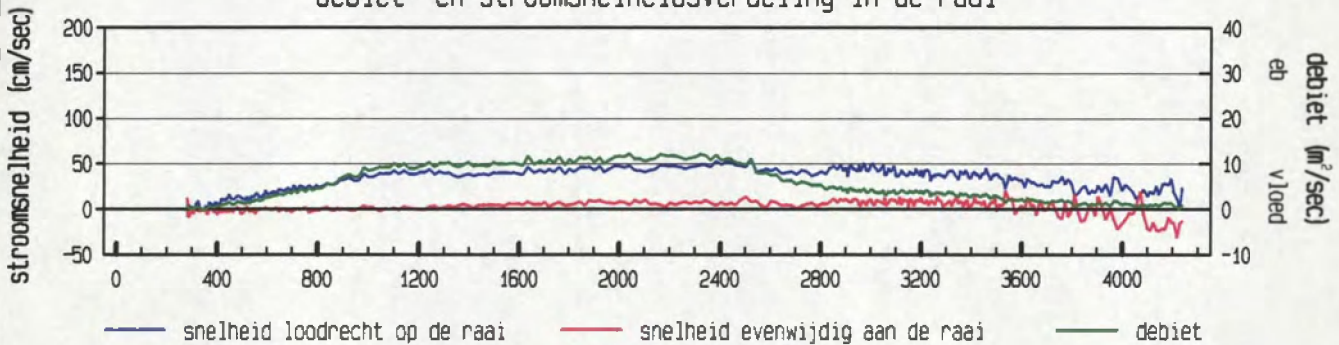
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



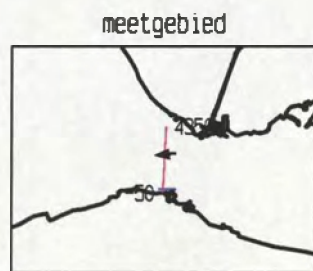
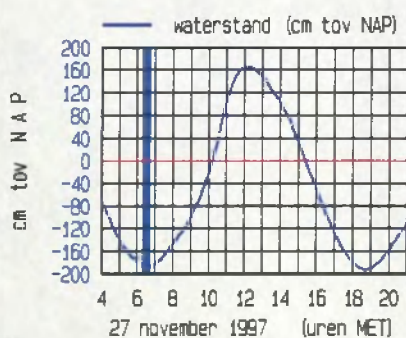
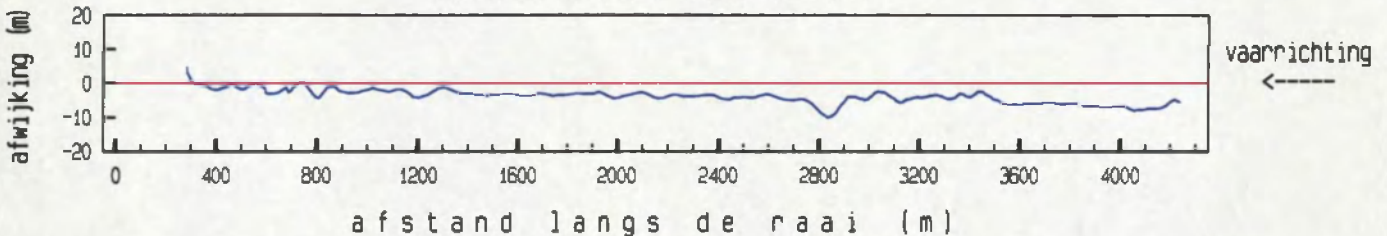
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



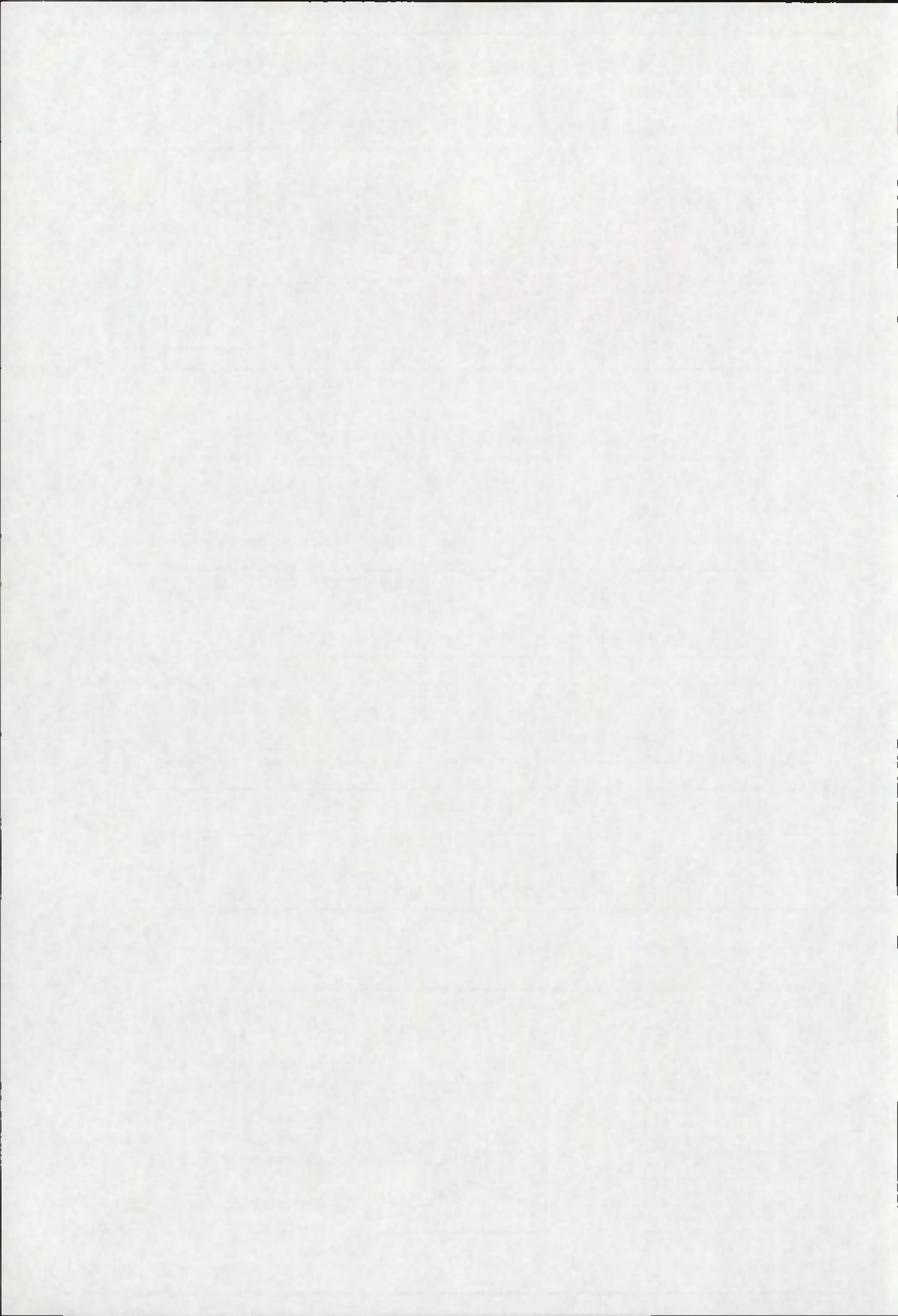
gevaren traject langs de raai



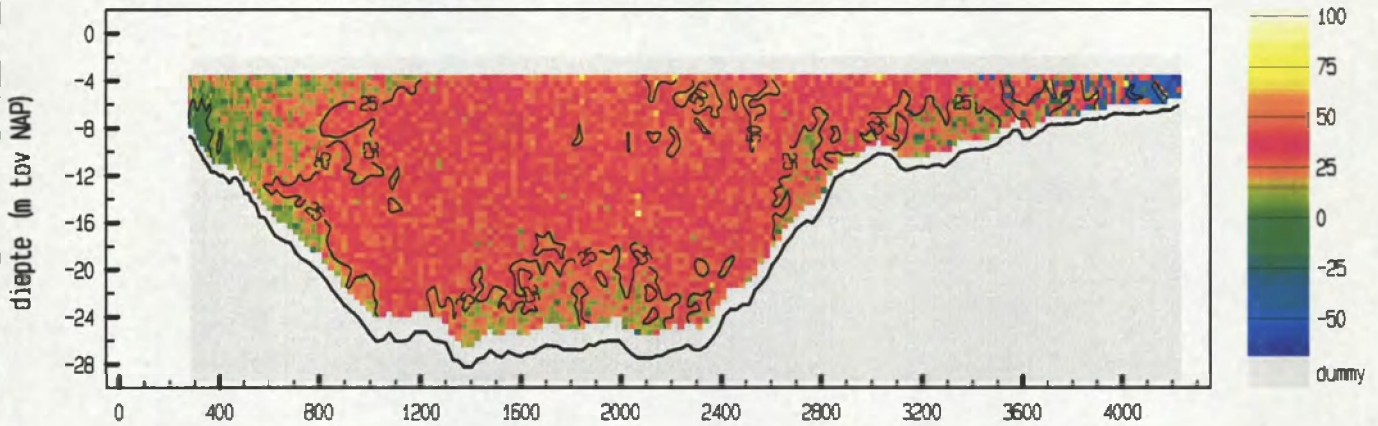
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2522 m  
 stroomsnelheid : 57 cm/sec  
 stroomrichting : 264 °

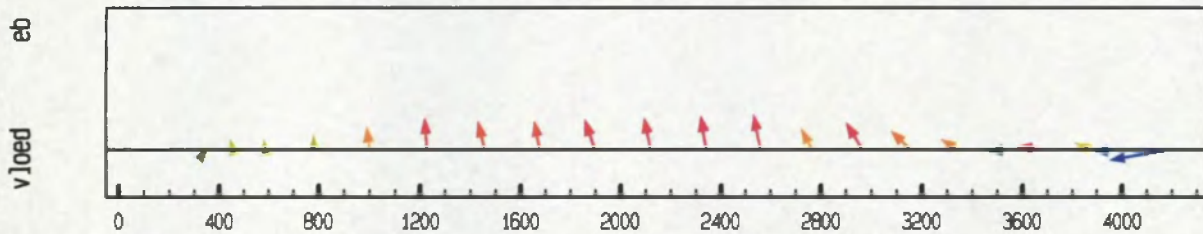
doorstroomoppervlak : 63114 m<sup>2</sup>  
 raaidebet : 24000 m<sup>3</sup>/sec



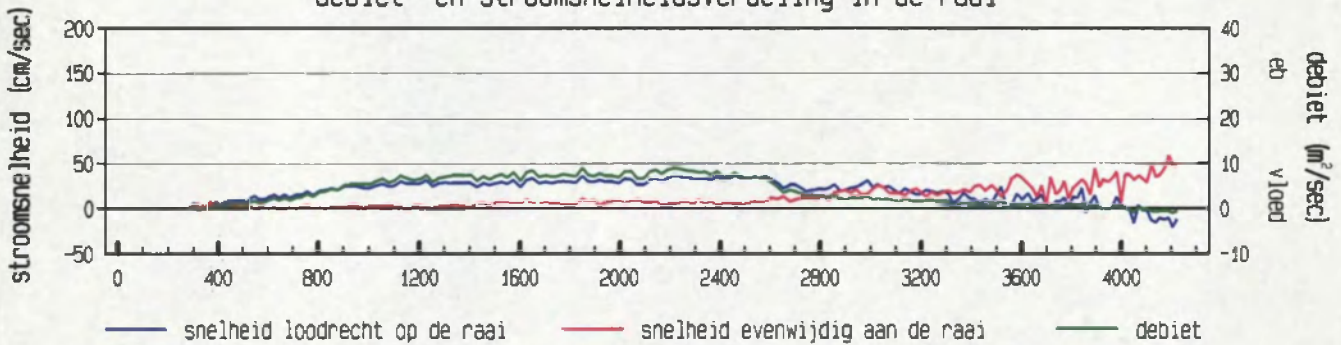
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



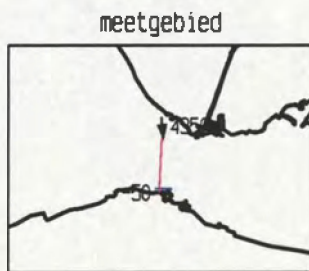
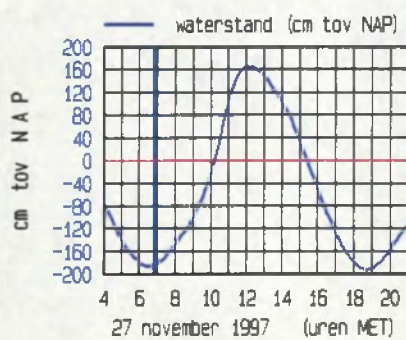
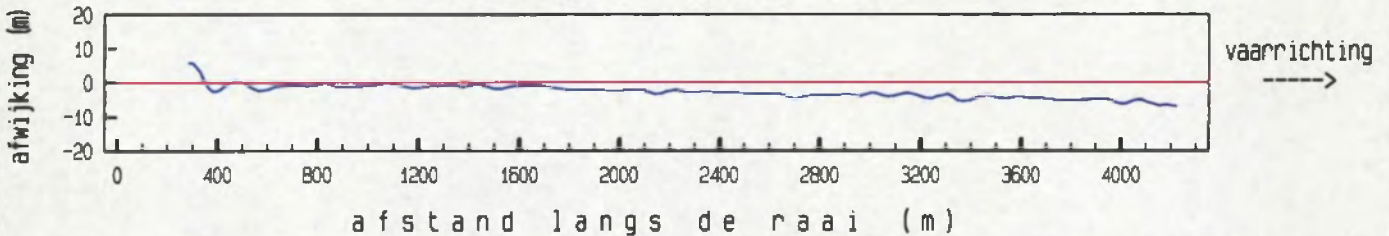
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

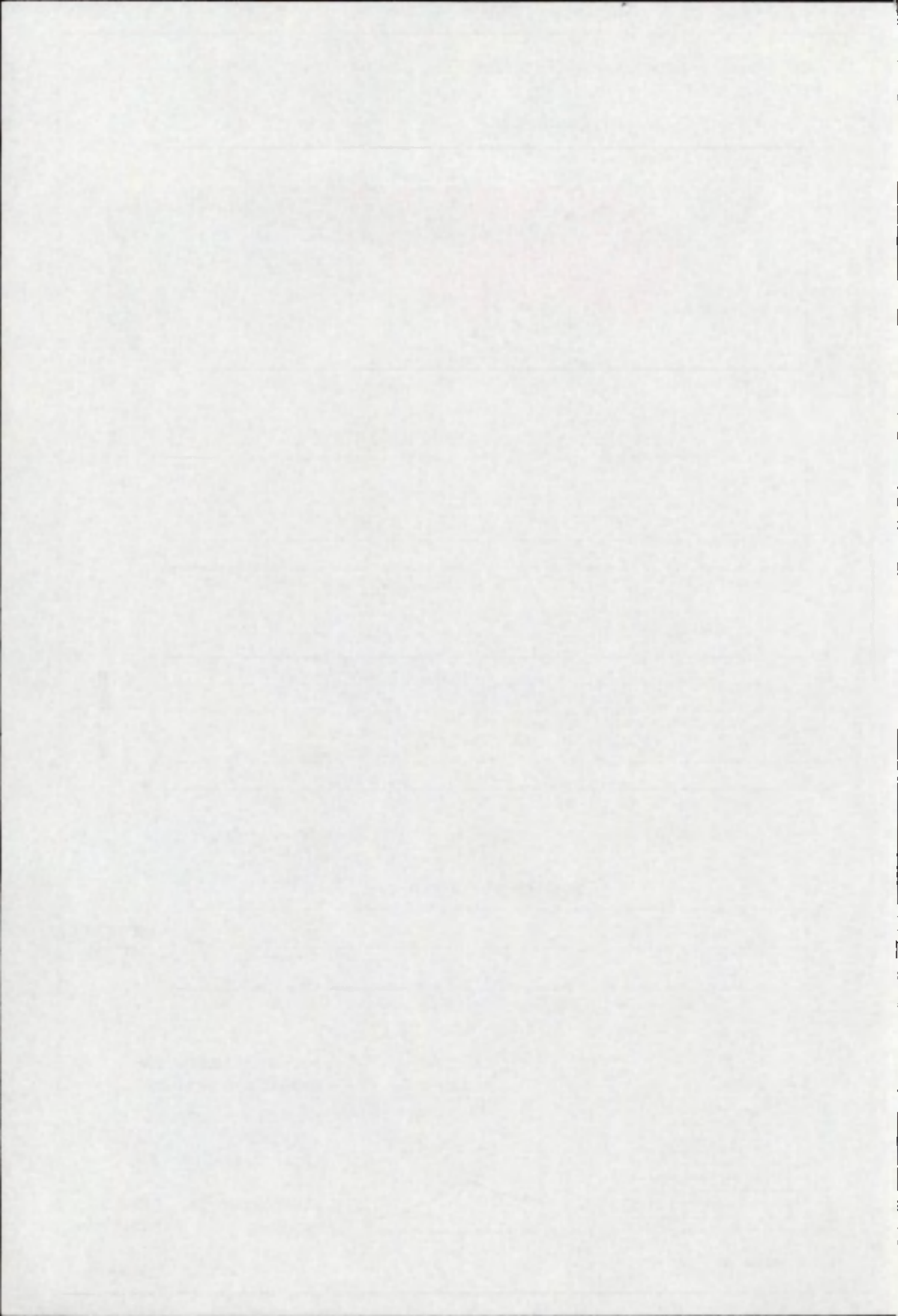


maximum gemiddelde stroom-  
 snelheid in de vertikaal

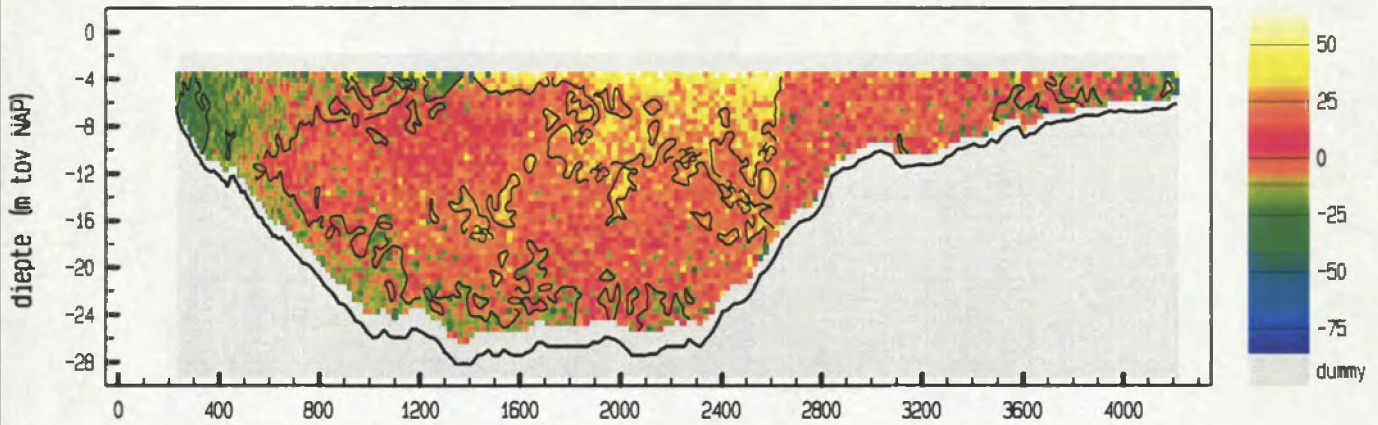
afstand uit nulpunt : 4188 m  
 stroomsnelheid : 60 cm/sec  
 stroomrichting : 173 °

doorstroomoppervlak : 63134 m<sup>2</sup>  
 raaidebiet : 15601 m<sup>3</sup>/sec

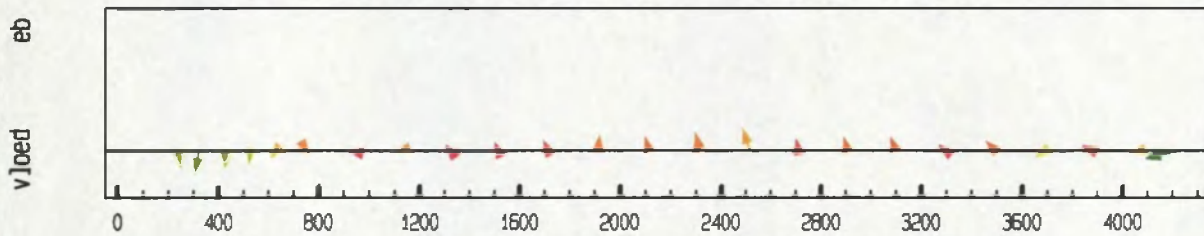




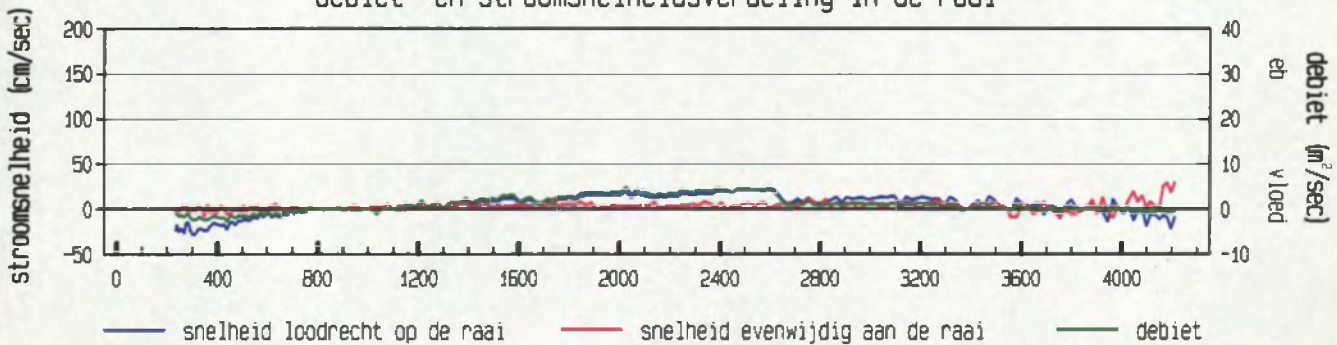
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



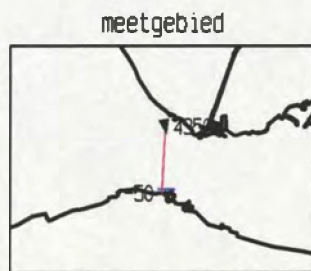
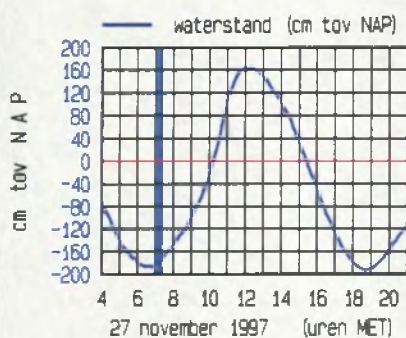
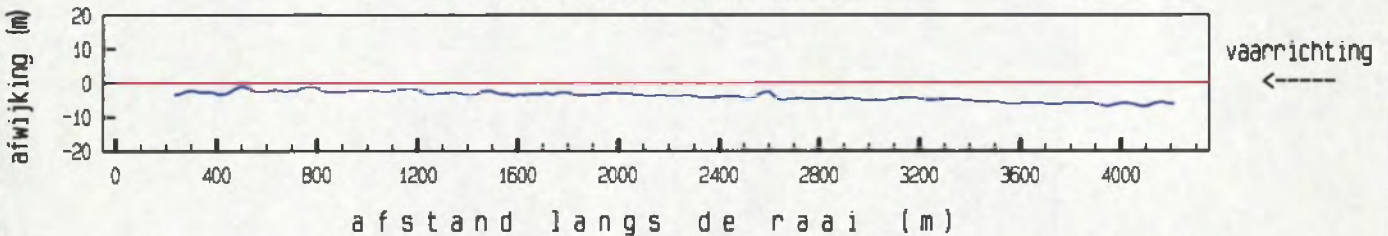
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaaren traject langs de raai

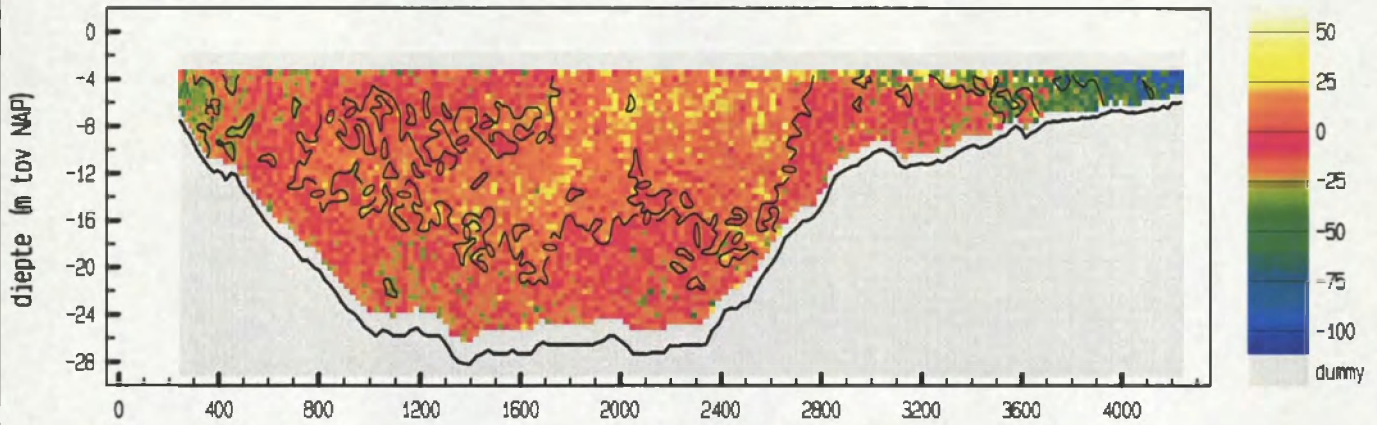


maximum gemiddelde stroom-  
 snelheid in de vertikaal

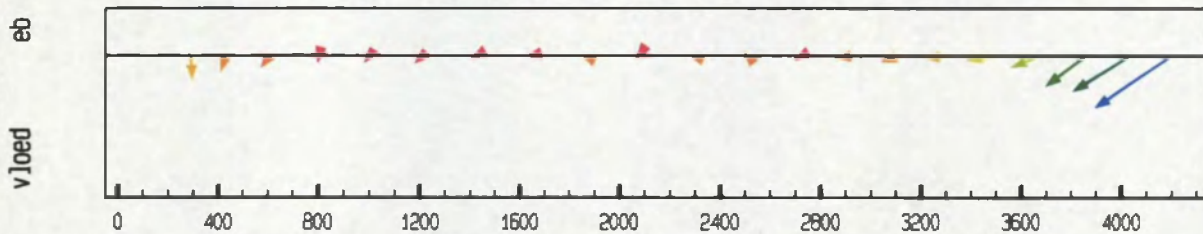
afstand uit nulpunt : 4212 m  
 stroomsnelheid : 31 cm/sec  
 stroomrichting : 168 °

doorstroomoppervlak : 63820 m<sup>2</sup>  
 raaidebiet : 4617 m<sup>3</sup>/sec

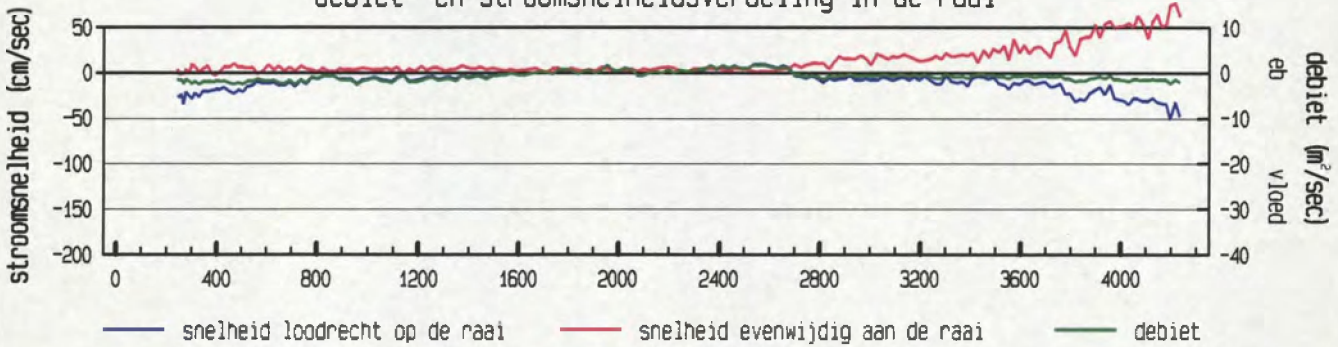
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



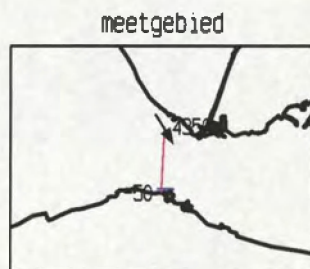
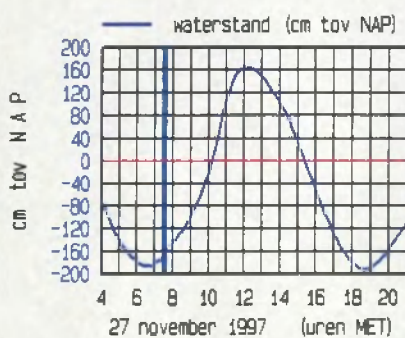
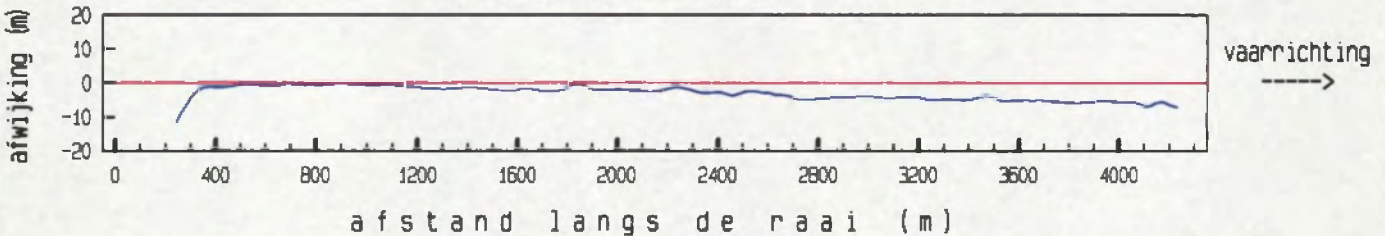
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



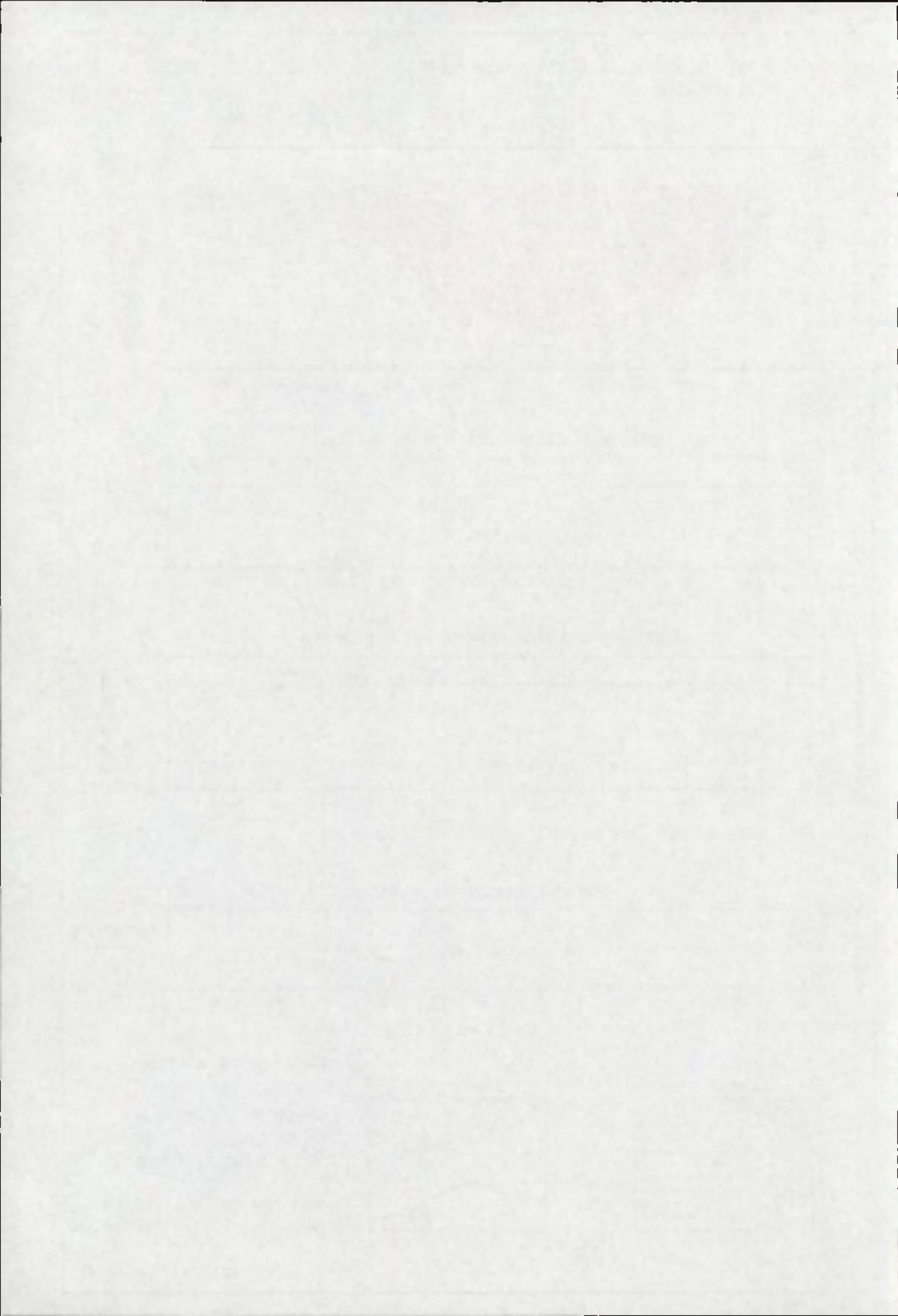
gevaren traject langs de raai



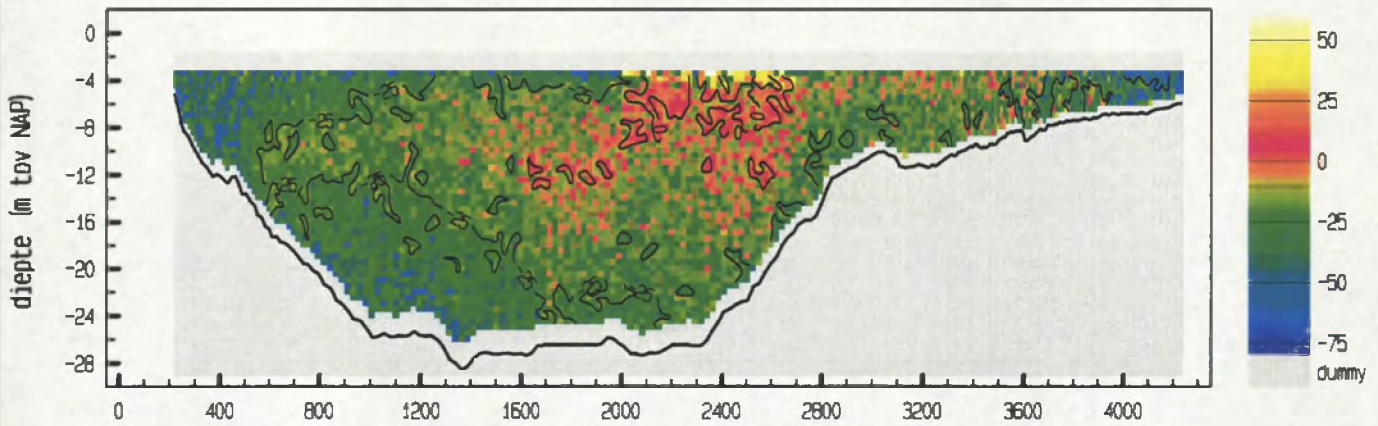
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4196 m  
 stroomsnelheid : 91 cm/sec  
 stroomrichting : 148 °

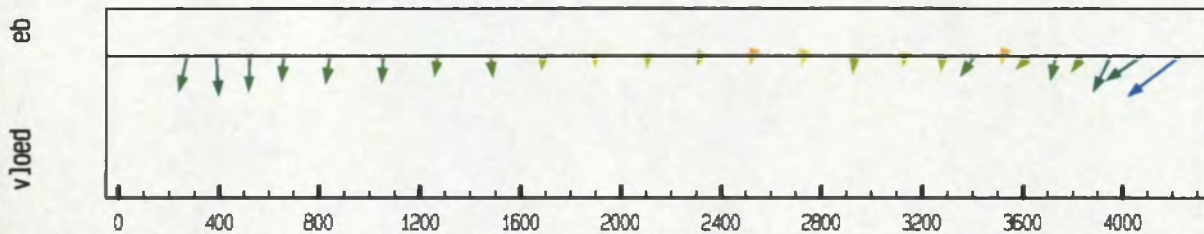
doorstroomoppervlak : 64214 m<sup>2</sup>  
 raaidebiet : -2740 m<sup>3</sup>/sec



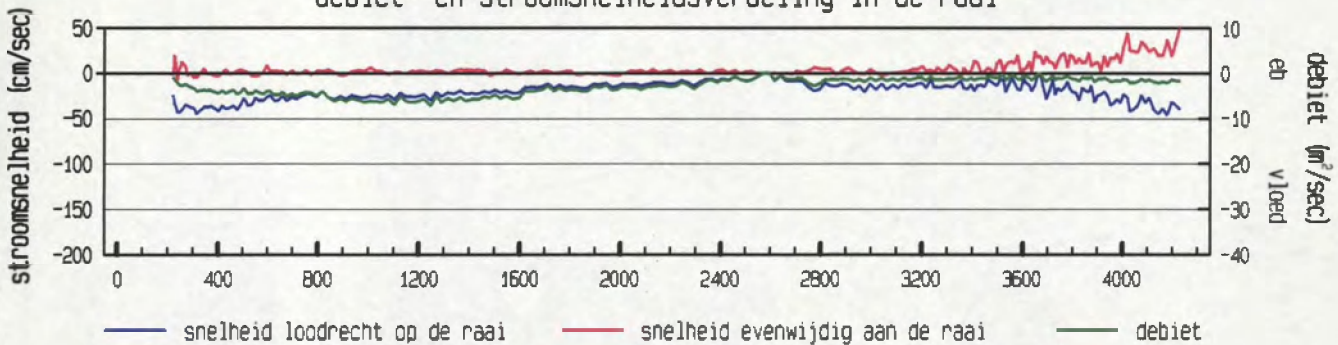
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



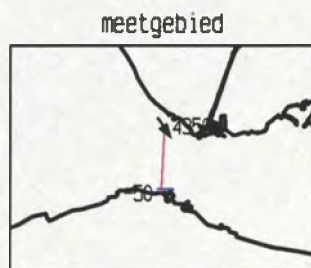
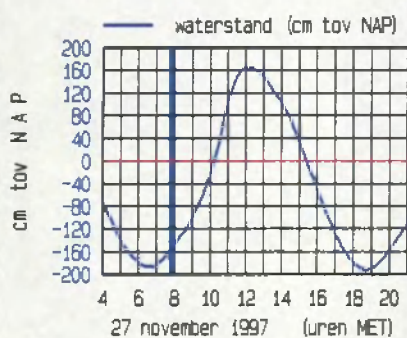
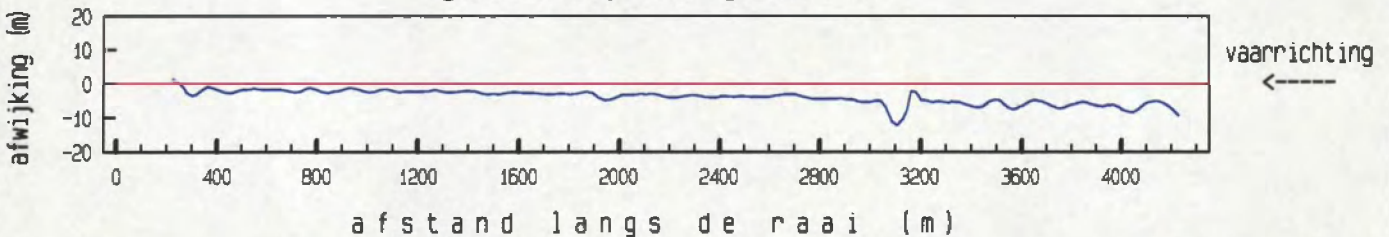
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



maximum gemiddelde stroom-  
 snelheid in de vertikaal

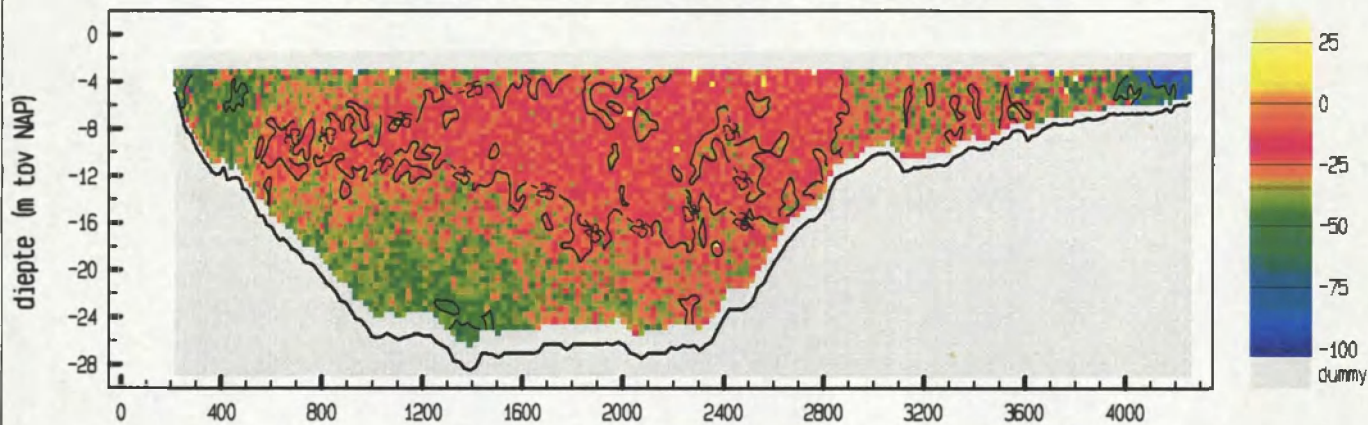
afstand uit nulpunt : 4230 m  
 stroomsnelheid : 65 cm/sec  
 stroomrichting : 145 °

doorstroomoppervlak : 64779 m<sup>2</sup>  
 raaidebiet : -11817 m<sup>3</sup>/sec

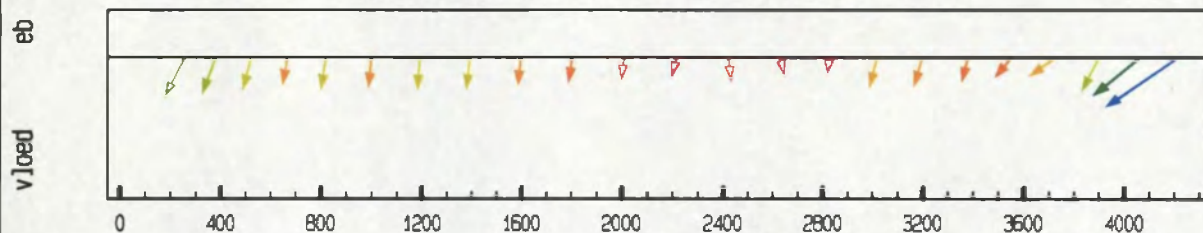
Debietraai 11 deelraai A dd 27 november 1997  
 adcpfile : 11da006a.val

tijd : 0800 - 0817

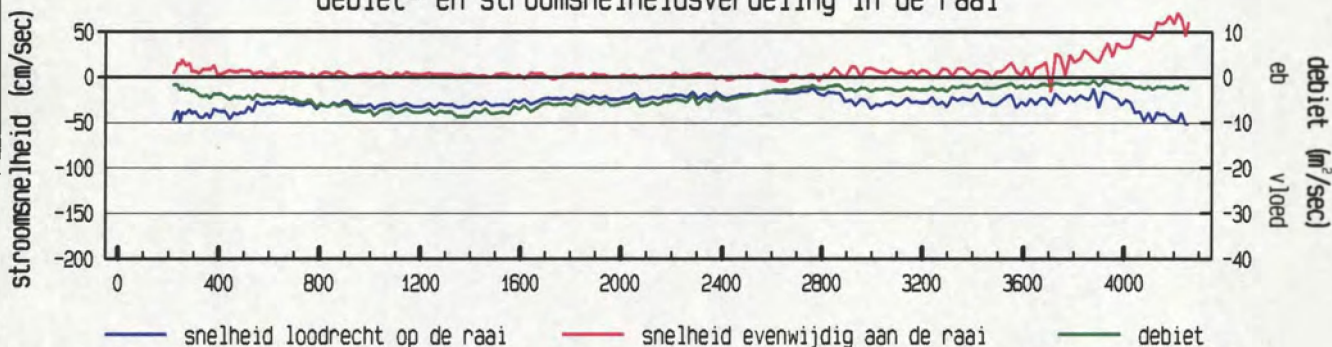
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



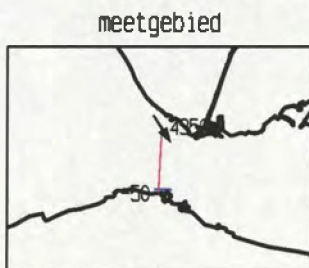
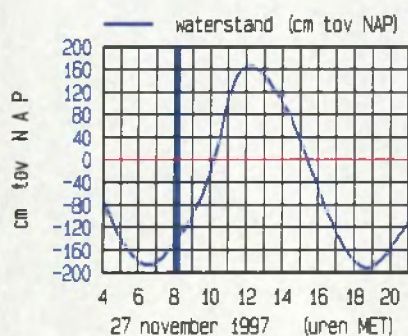
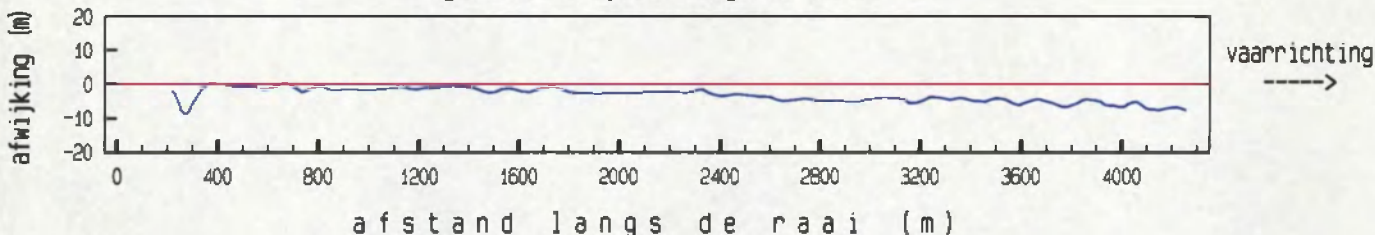
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaaren traject langs de raai



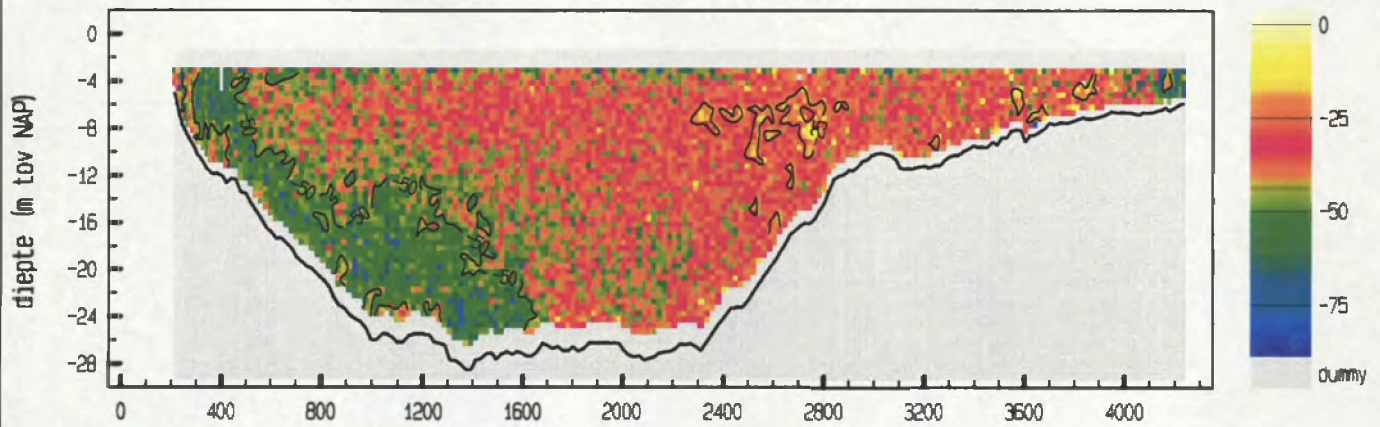
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4213 m  
 stroomsnelheid : 86 cm/sec  
 stroomrichting : 148 °

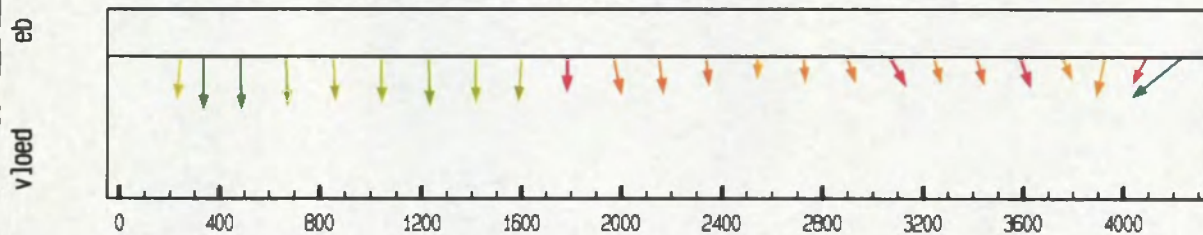
doorstroomoppervlak : 65373 m<sup>2</sup>  
 raaidebiet : -17428 m<sup>3</sup>/sec

adcpfile : 11da006a.val

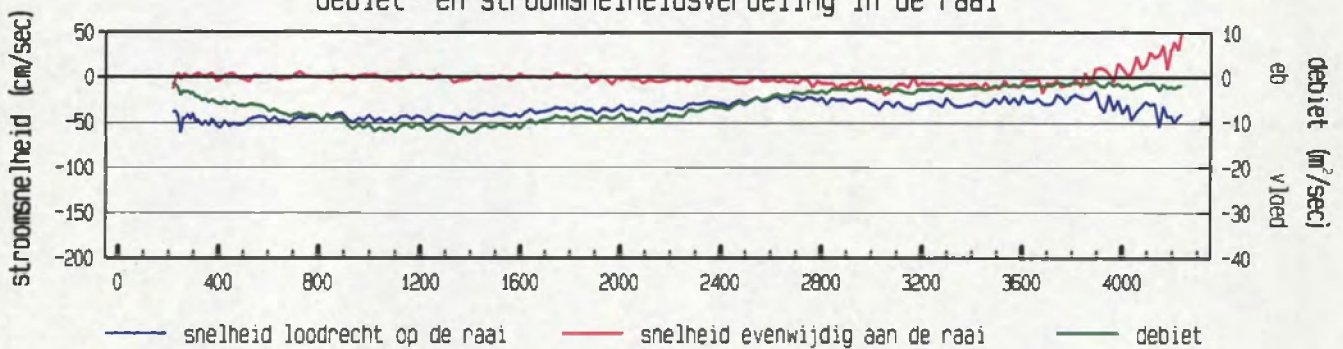
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



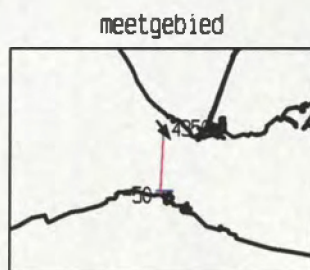
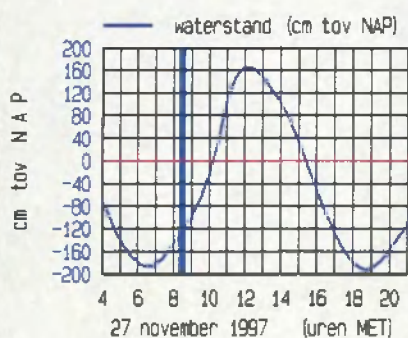
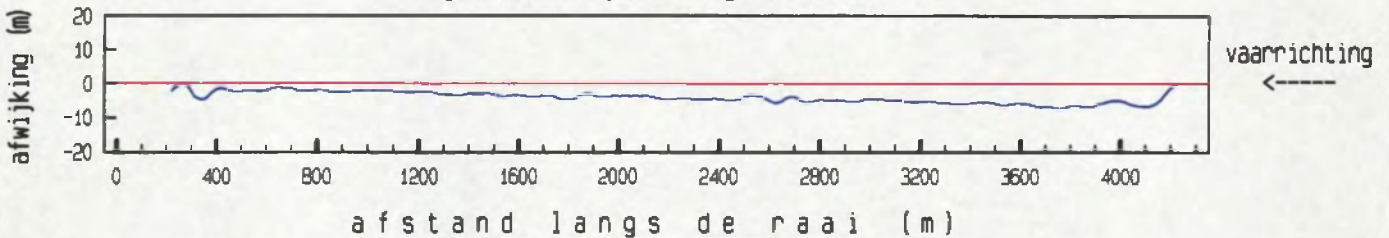
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

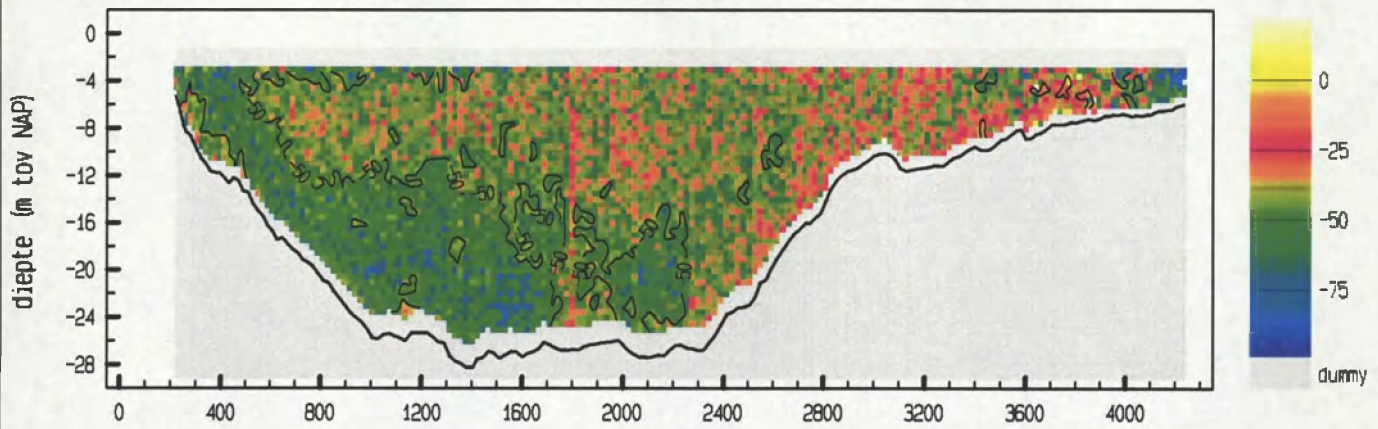


maximum gemiddelde stroom-  
 snelheid in de vertikaal

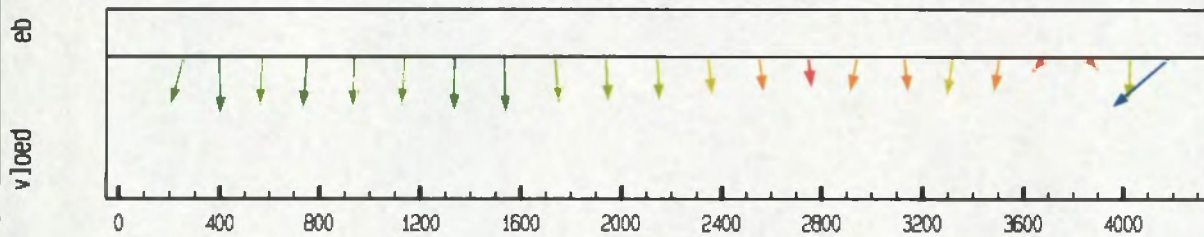
afstand uit nulpunt : 4234 m  
 stroomsnelheid : 64 cm/sec  
 stroomrichting : 144 °

doorstroomoppervlak : 65816 m<sup>2</sup>  
 raaidebiet : -24388 m<sup>3</sup>/sec

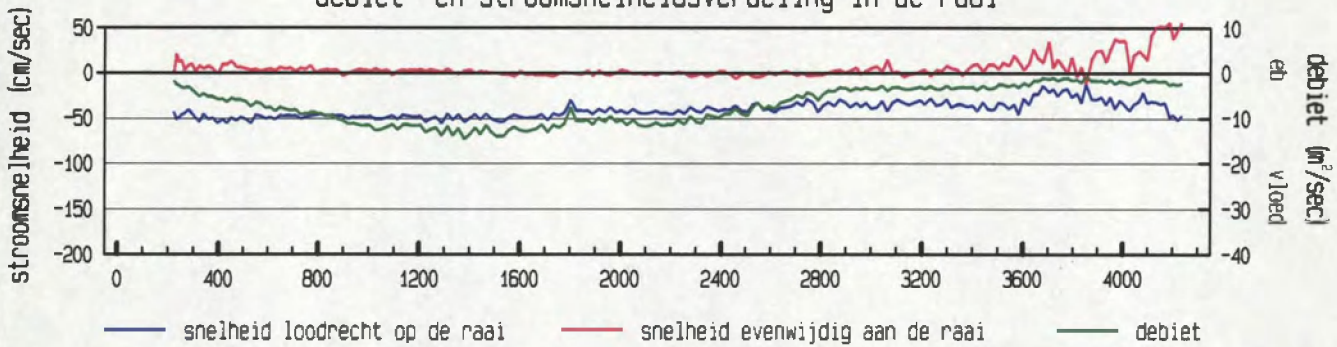
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



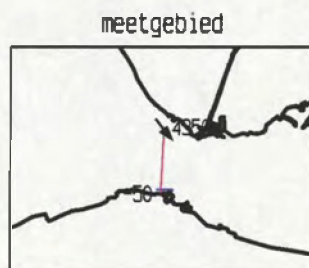
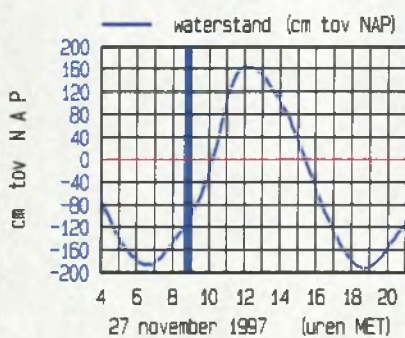
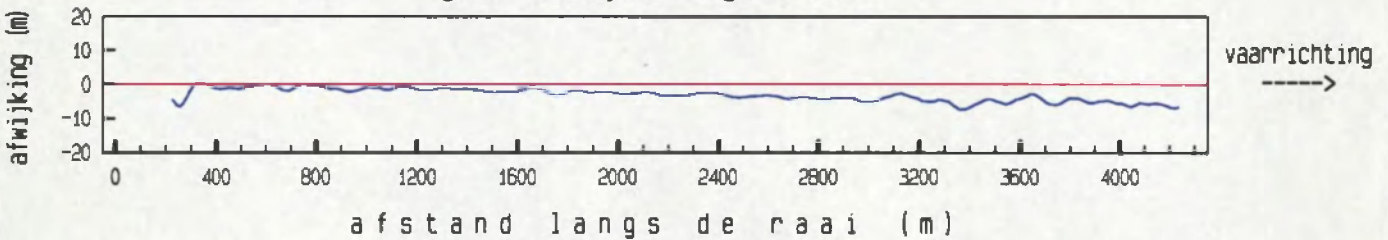
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

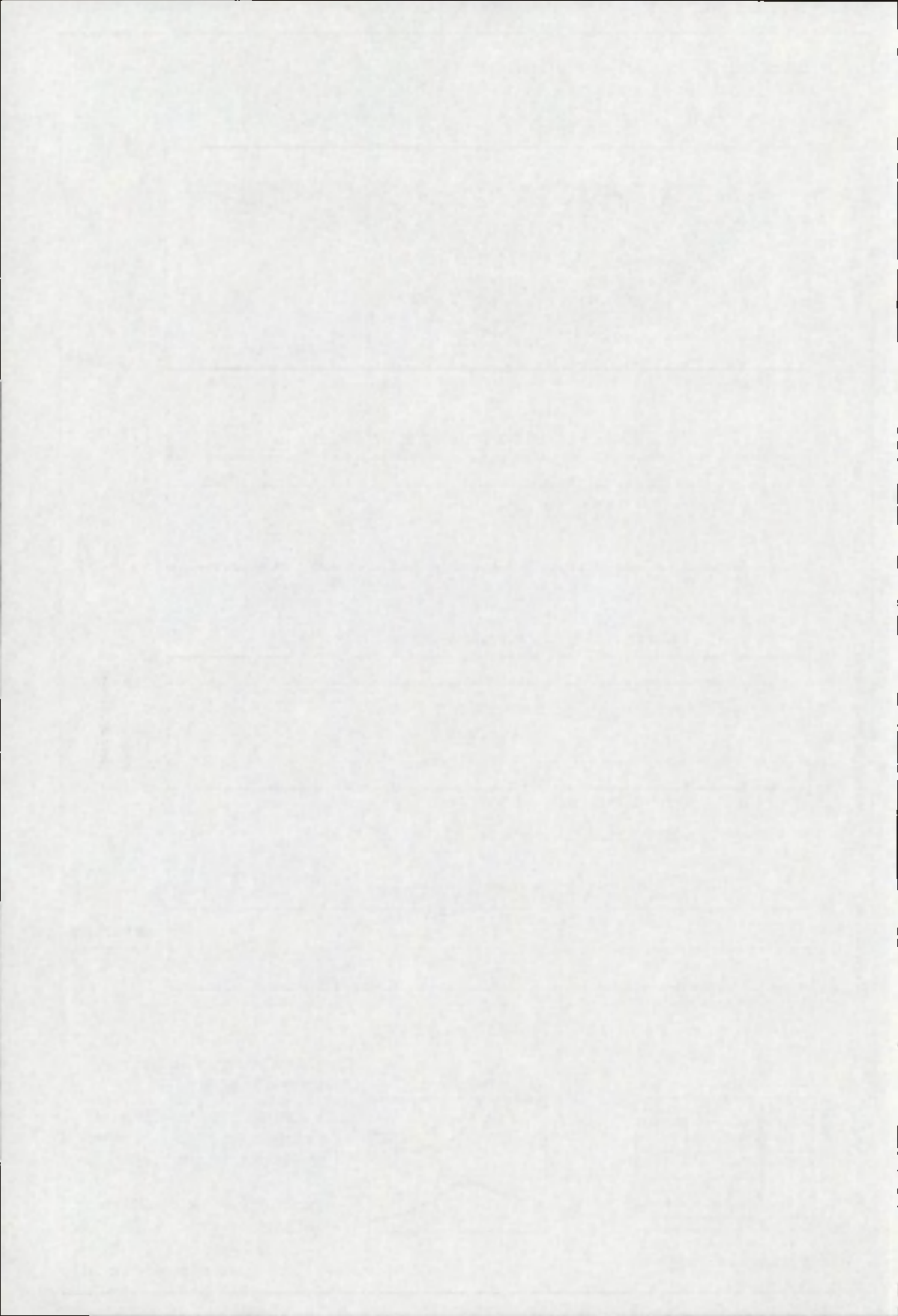


maximum gemiddelde stroom-  
 snelheid in de vertikaal

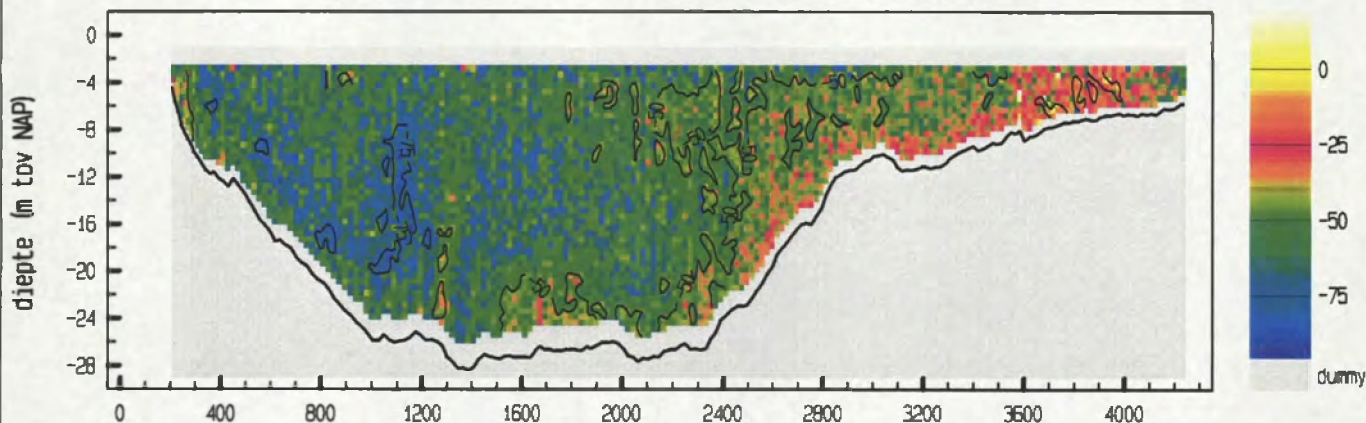
afstand uit nulpunt : 4185 m  
 stroomsnelheid : 74 cm/sec  
 stroomrichting : 142 °

doorstroomoppervlak : 66375 m<sup>2</sup>  
 raaidebiet : -28606 m<sup>3</sup>/sec

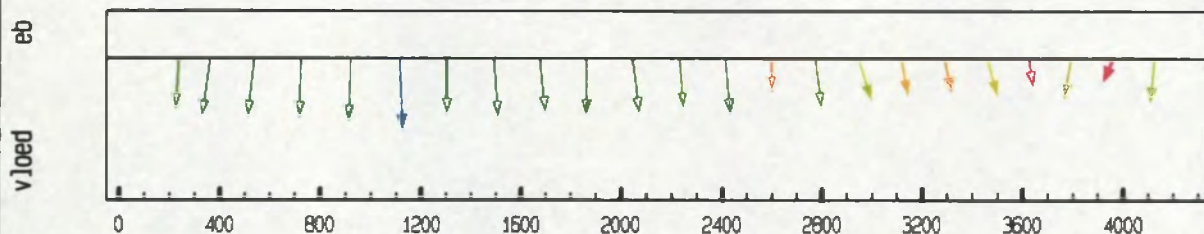




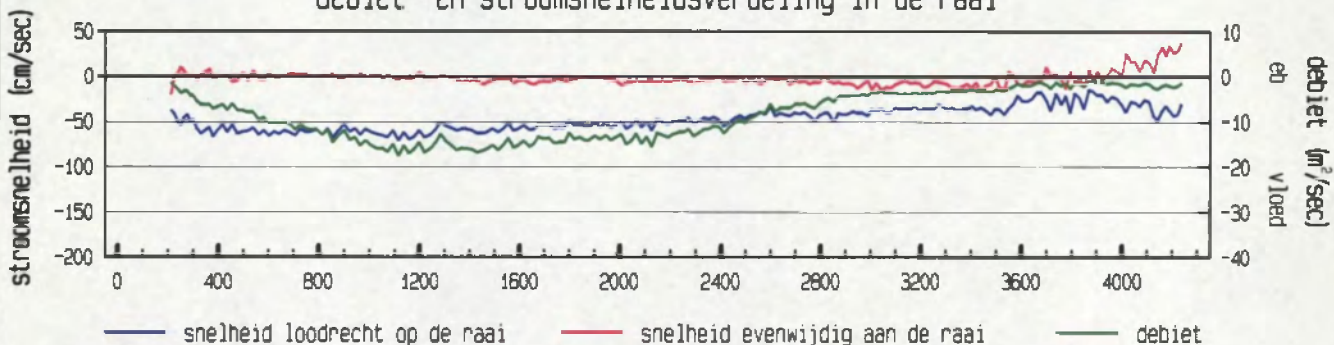
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



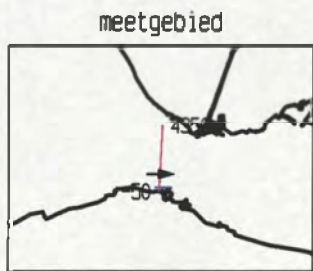
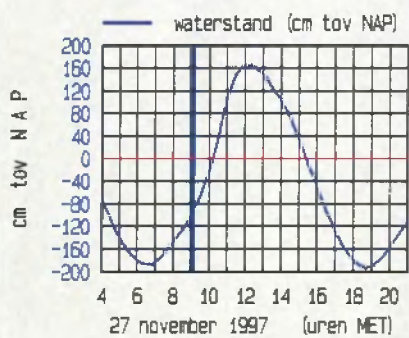
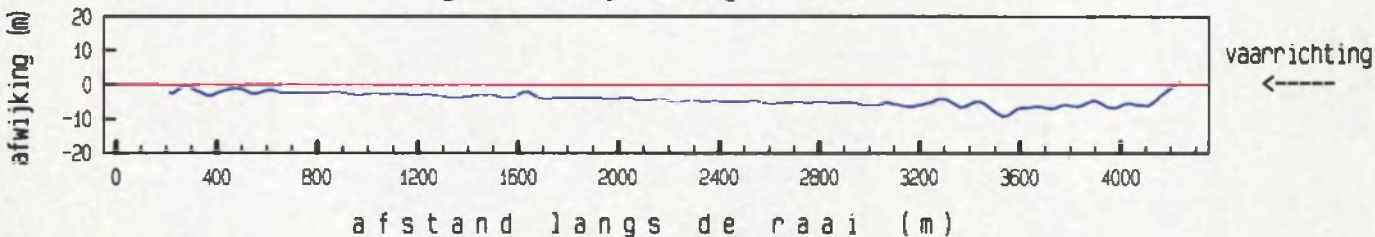
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

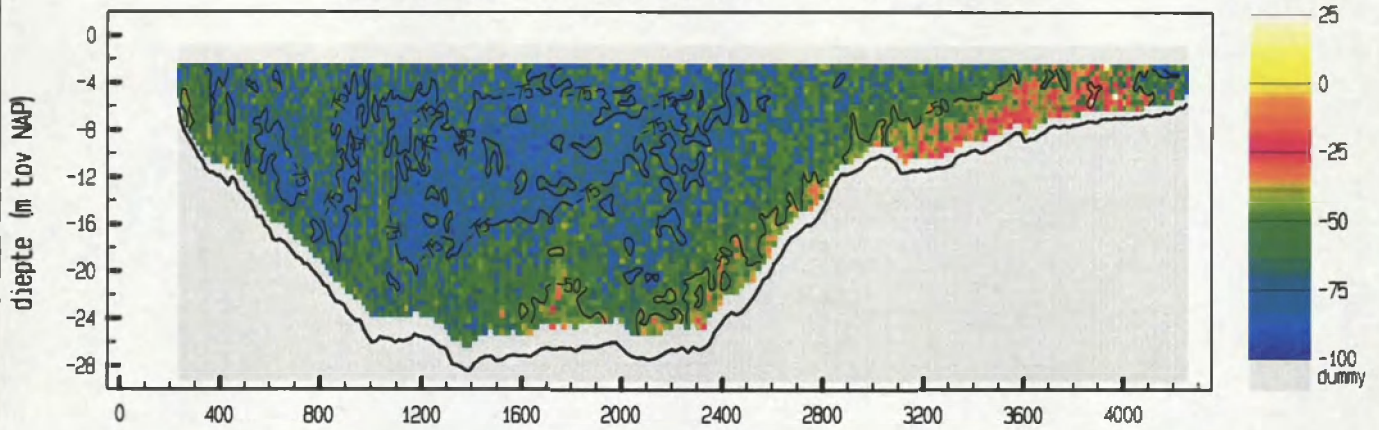


maximum gemiddelde stroom-  
 snelheid in de vertikaal

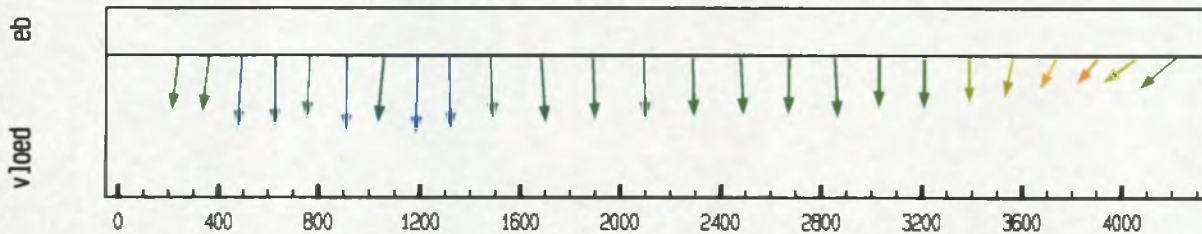
afstand uit nulpunt : 1113 m  
 stroomsnelheid : 71 cm/sec  
 stroomrichting : 90°

doorstroomoppervlak : 67217 m²  
 raaidebiet : -34618 m³/sec

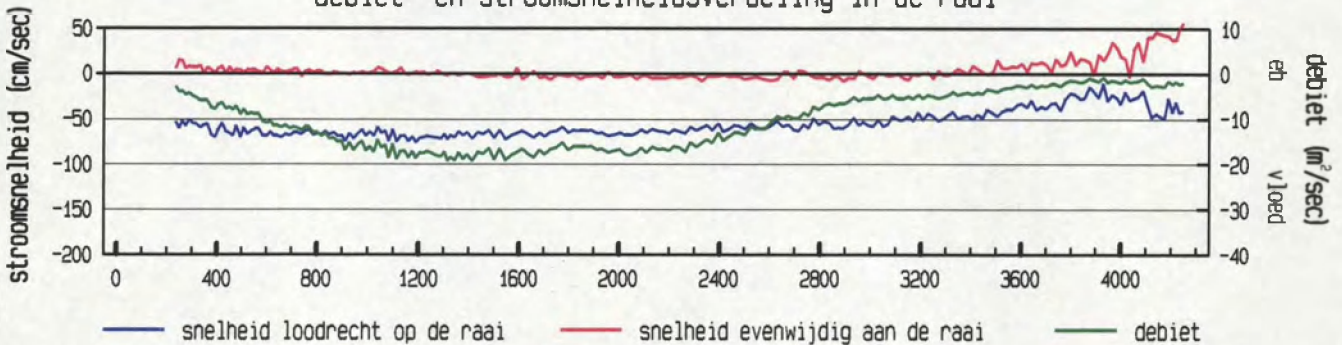
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



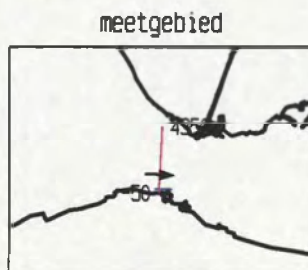
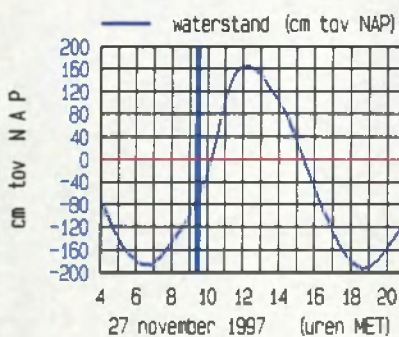
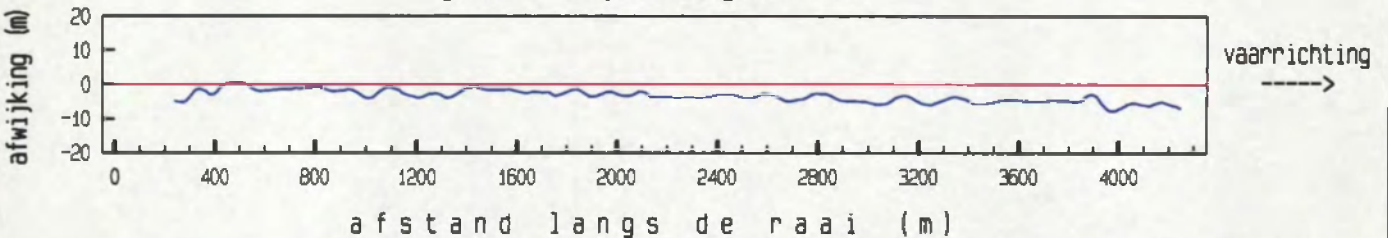
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

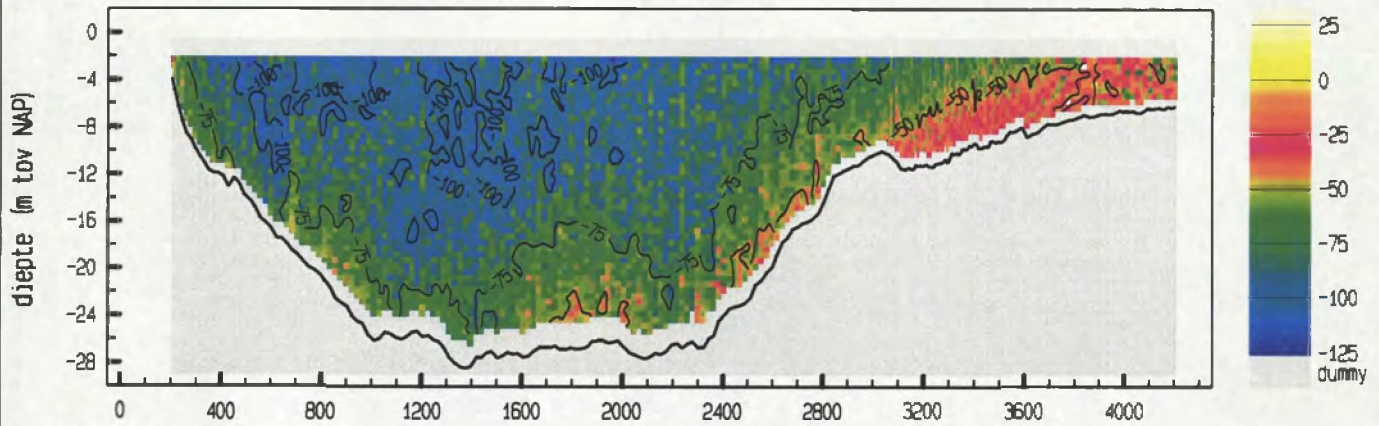


maximum gemiddelde stroom-  
 snelheid in de vertikaal

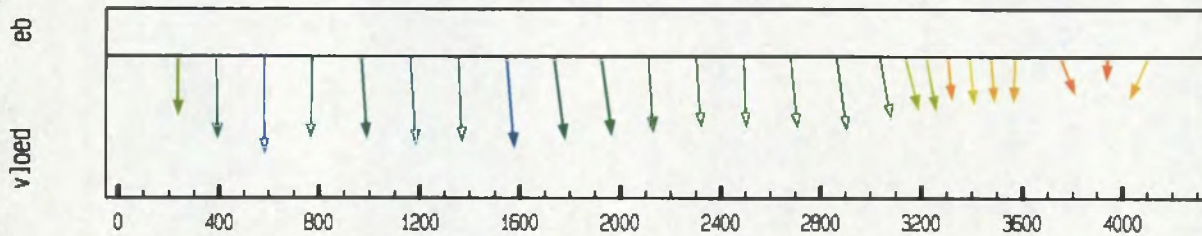
afstand uit nulpunt : 1189 m  
 stroomsnelheid : 76 cm/sec  
 stroomrichting : 94 °

doorstroomoppervlak : 68219 m<sup>2</sup>  
 raaidebiet : -41376 m<sup>3</sup>/sec

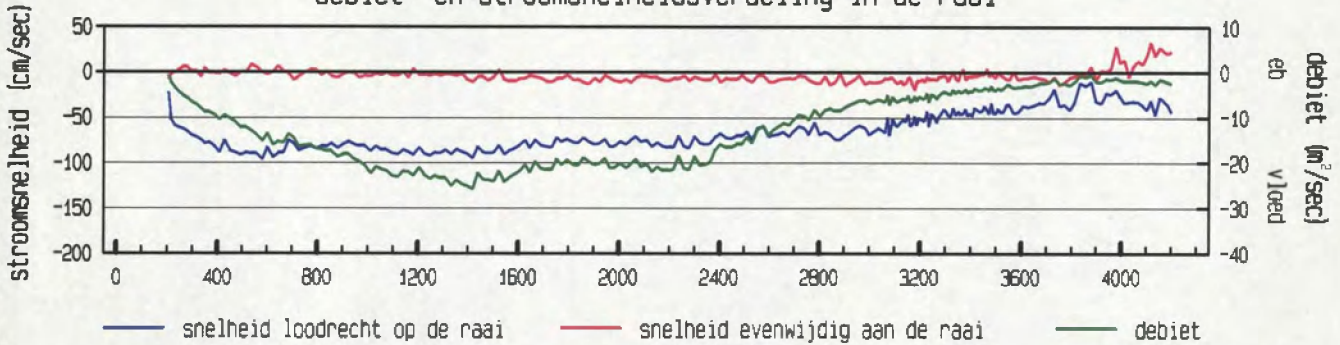
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



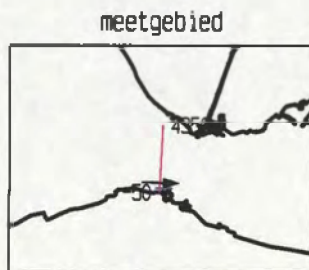
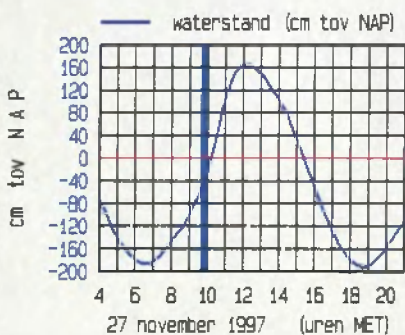
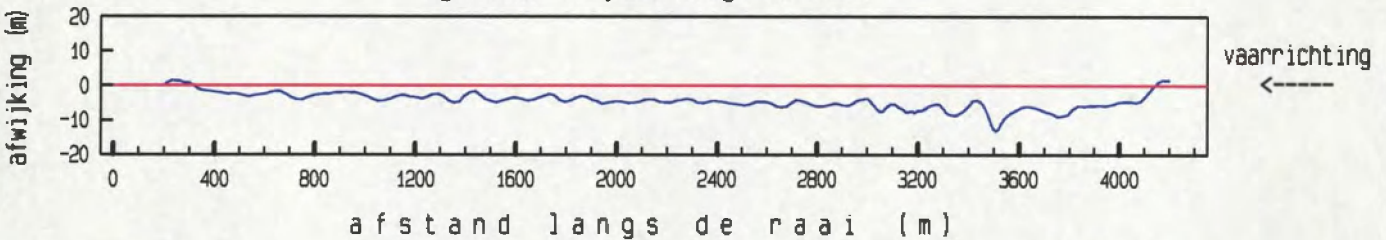
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

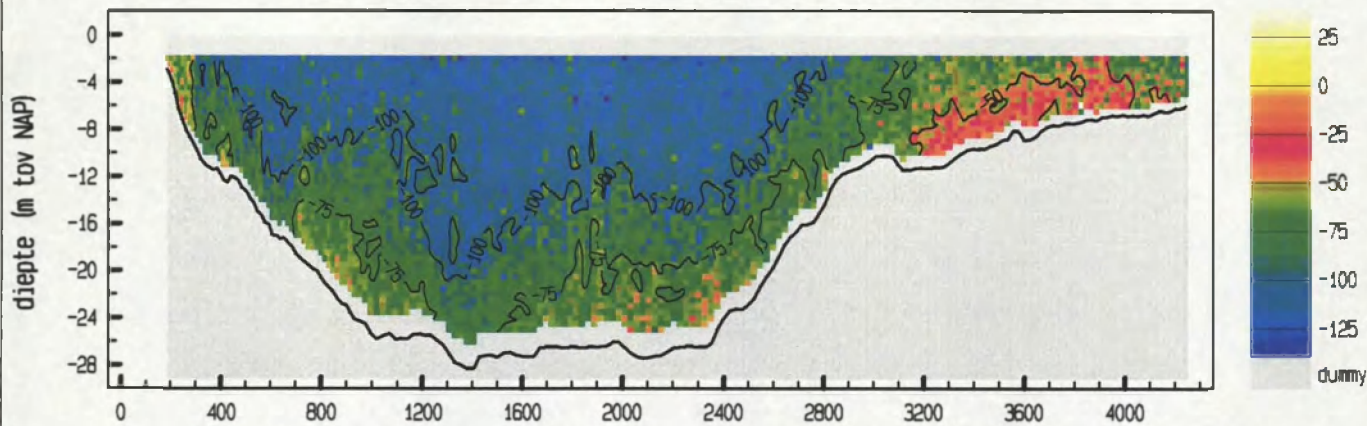


maximum gemiddelde stroom-  
 snelheid in de vertikaal

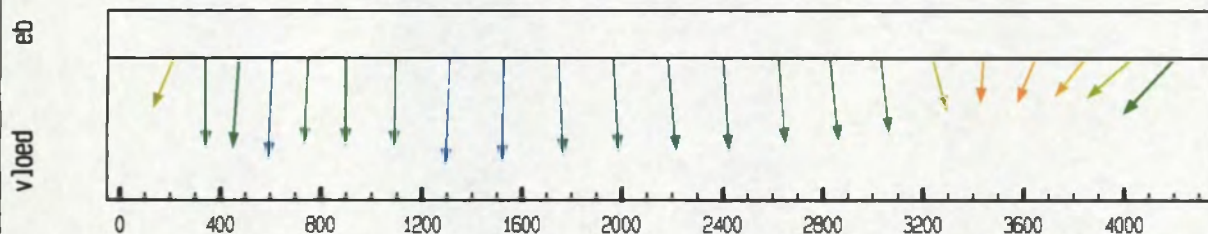
afstand uit nulpunt : 579 m  
 stroomsnelheid : 97 cm/sec  
 stroomrichting : 92°

doorstroomoppervlak : 69247 m<sup>2</sup>  
 raaidebet : -51255 m<sup>3</sup>/sec

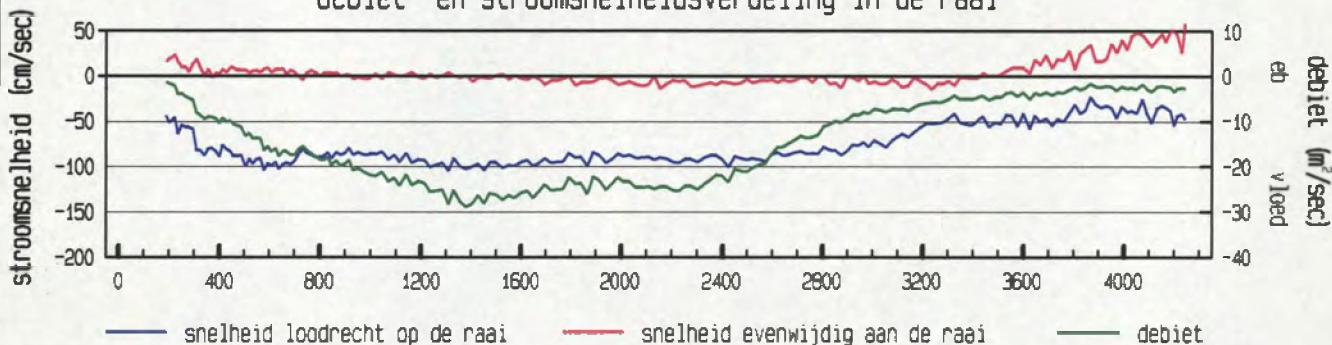
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



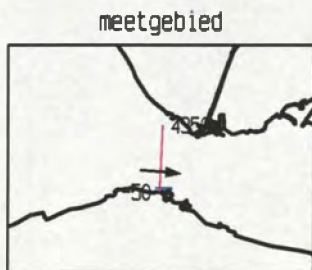
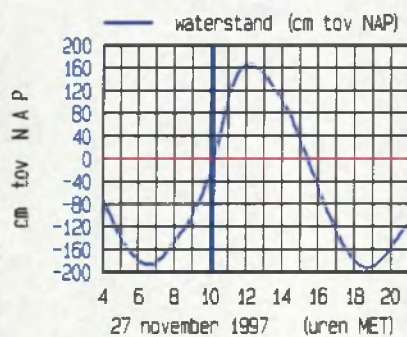
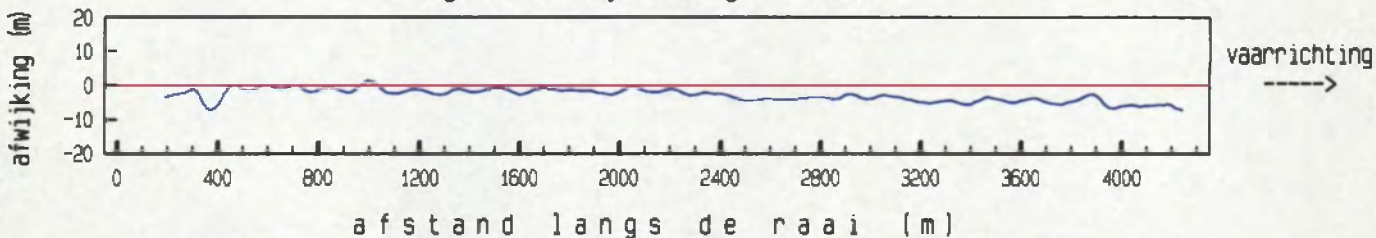
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaaren traject langs de raai

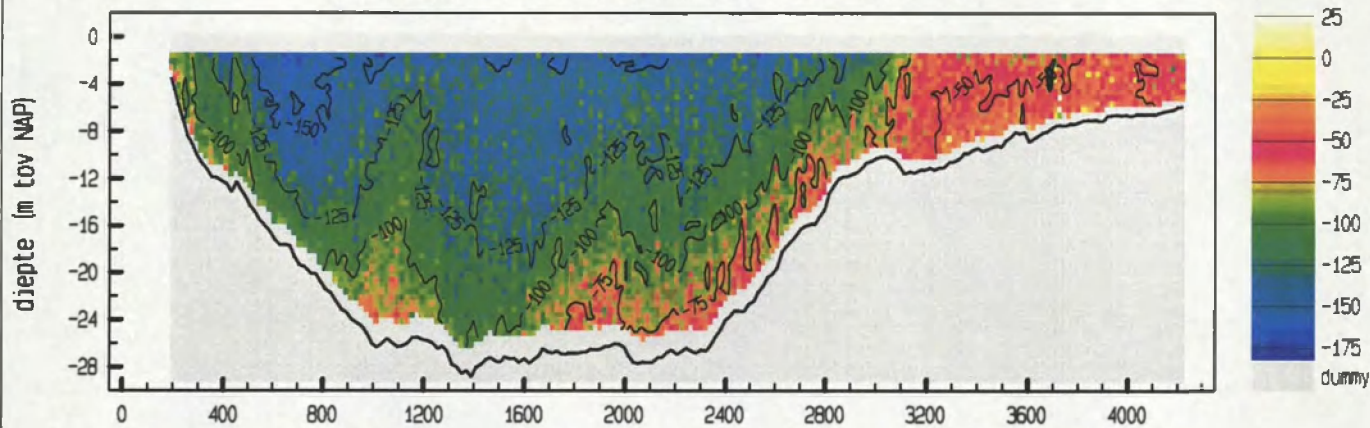


maximum gemiddelde stroom-  
 snelheid in de vertikaal

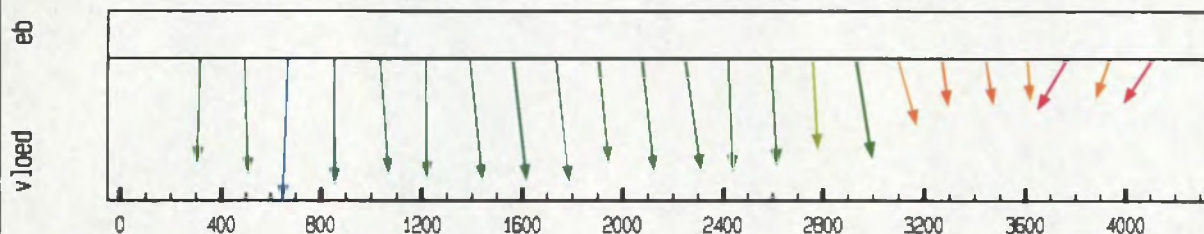
afstand uit nulpunt : 1309 m  
 stroomsnelheid : 105 cm/sec  
 stroomrichting : 95 °

doorstroomoppervlak : 70705 m<sup>2</sup>  
 raaidebiet : -59705 m<sup>3</sup>/sec

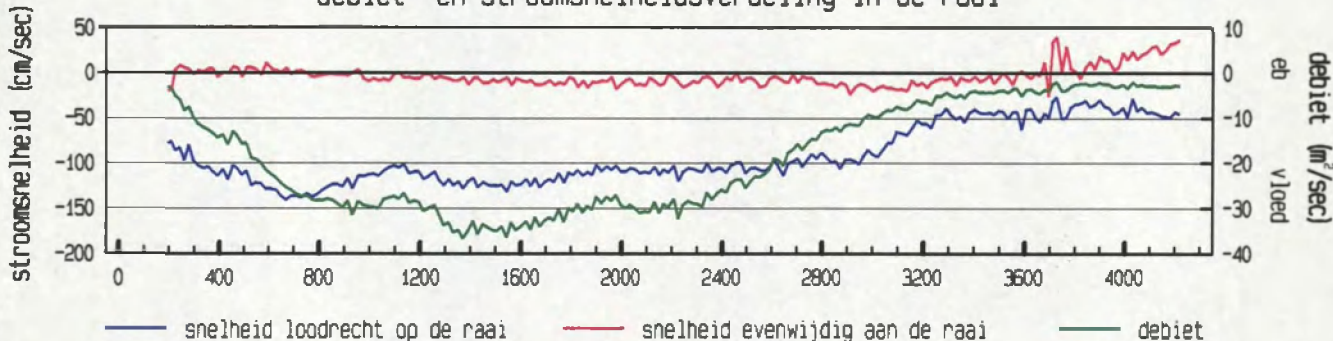
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



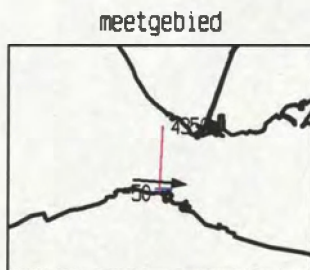
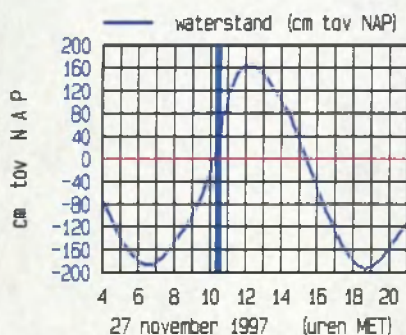
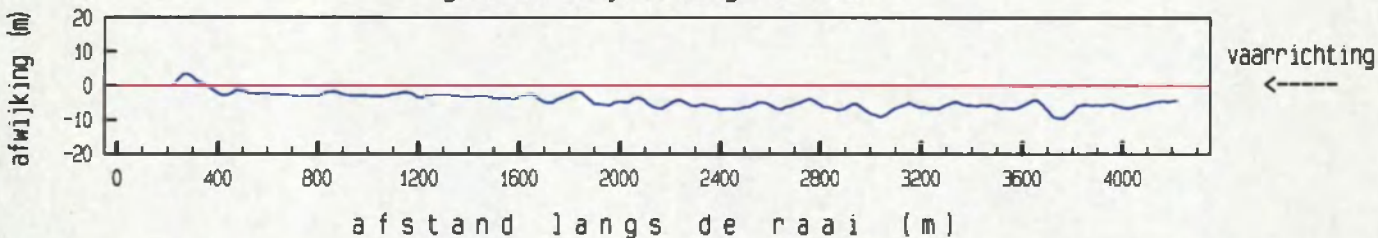
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

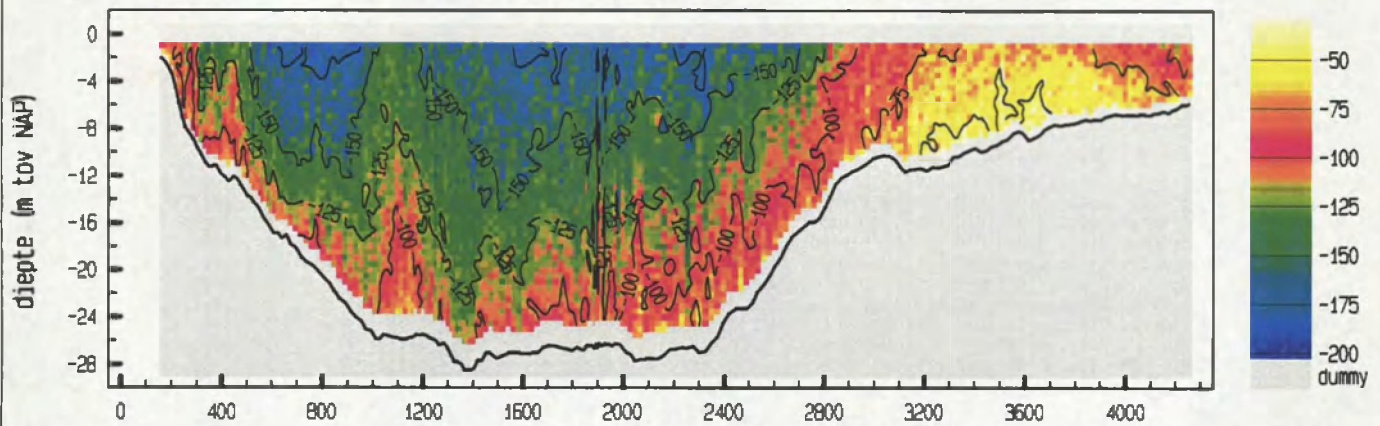


maximum gemiddelde stroomsnelheid in de vertikaal

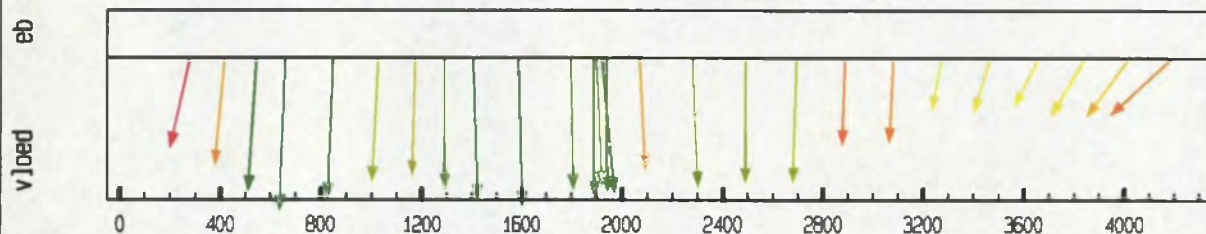
afstand uit nulpunt : 669 m  
 stroomsnelheid : 141 cm/sec  
 stroomrichting : 95°

doorstroomoppervlak : 72544 m²  
 raaidebiet : -75138 m³/sec

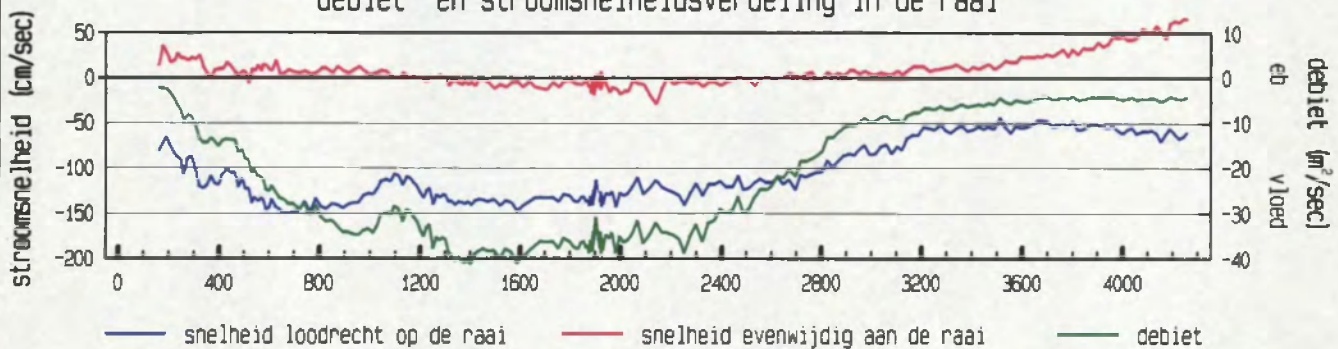
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



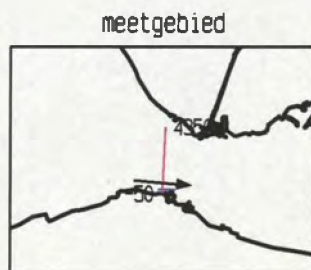
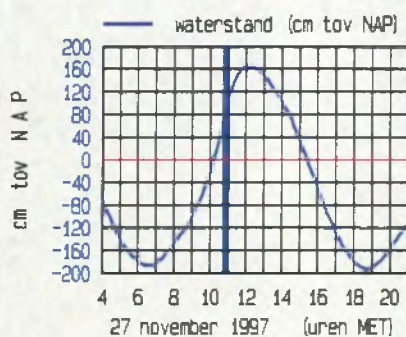
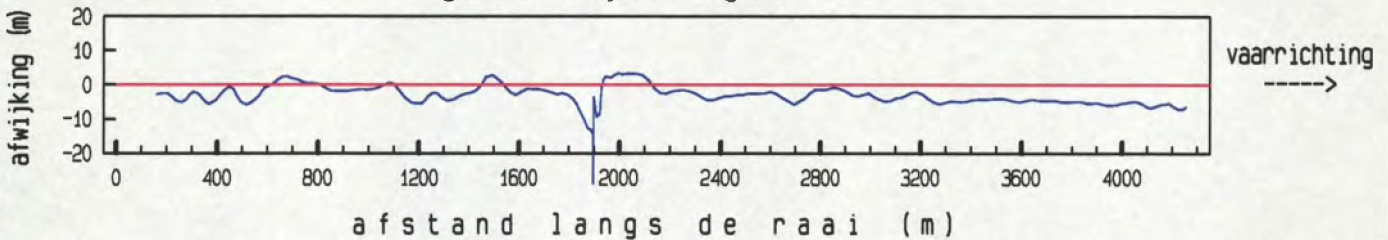
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



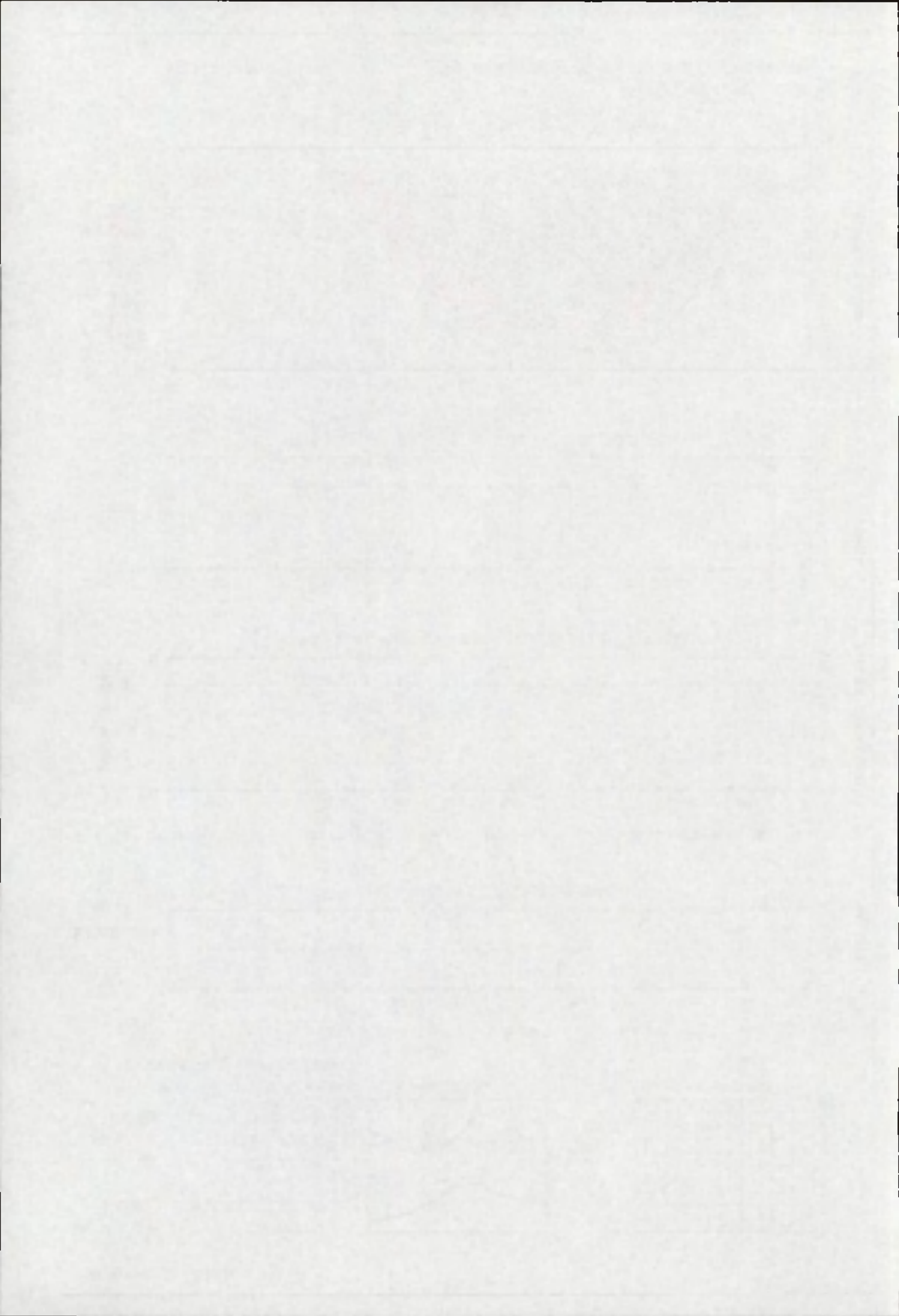
gevaaren traject langs de raai



maximum gemiddelde stroom-  
 snelheid in de vertikaal

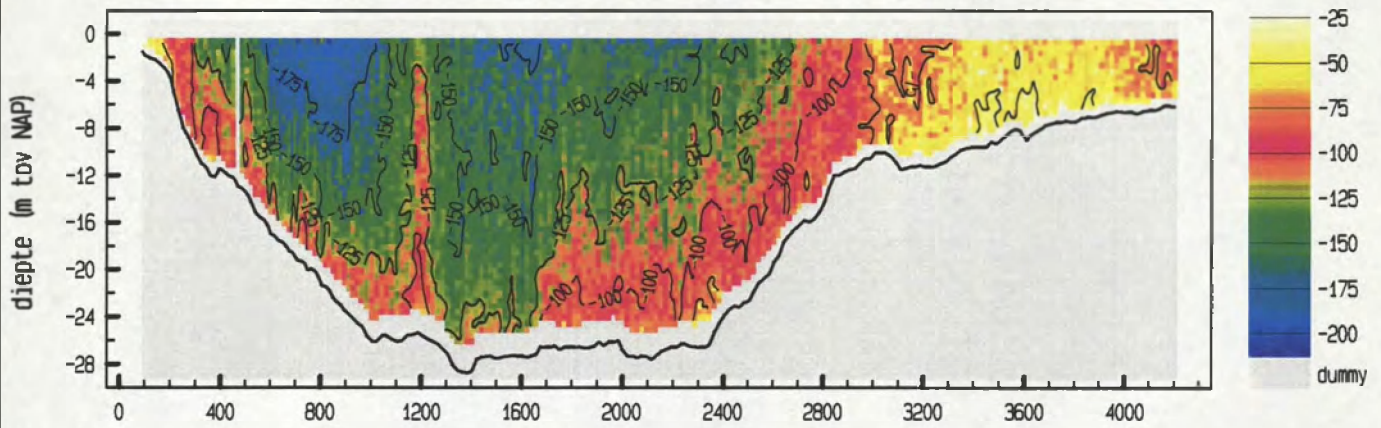
afstand uit nulpunt : 659 m  
 stroomsnelheid : 151 cm/sec  
 stroomrichting : 95 °

doorstroomoppervlak : 75229 m<sup>2</sup>  
 raaidebiet : -86573 m<sup>3</sup>/sec

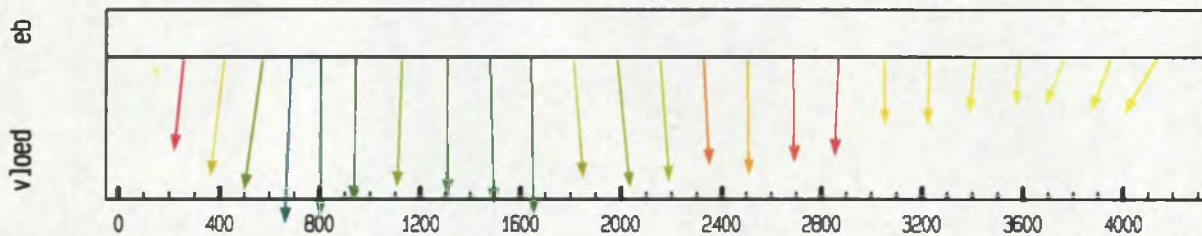




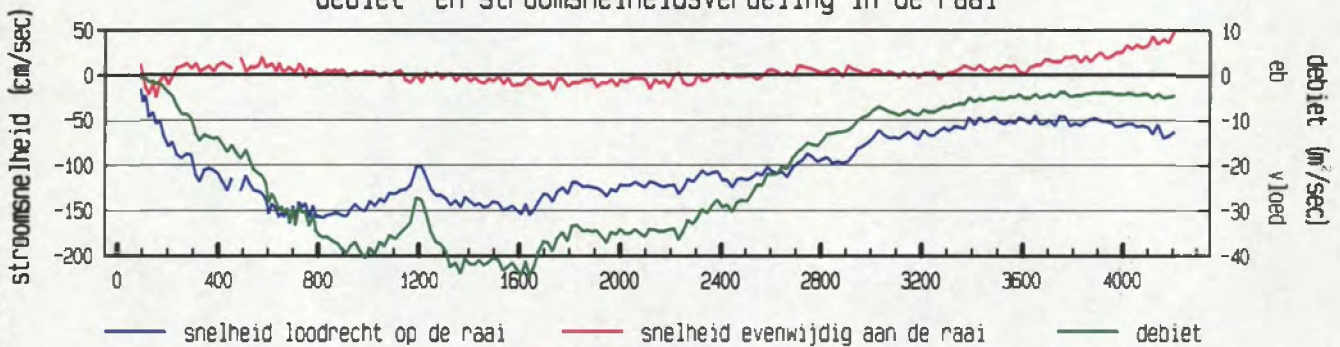
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



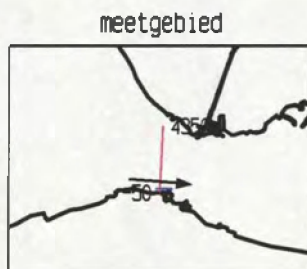
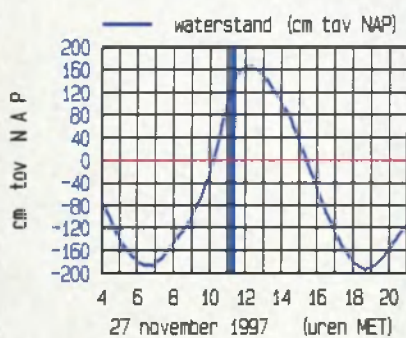
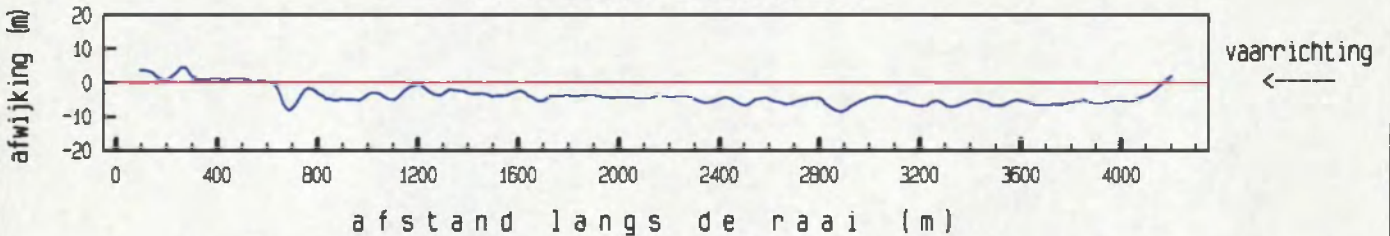
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

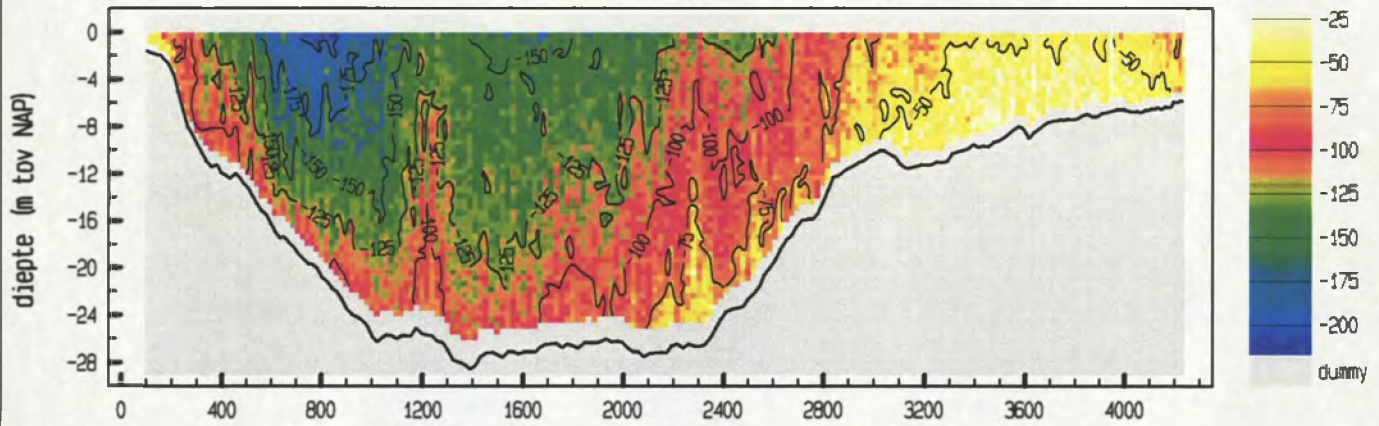


maximum gemiddelde stroom-  
 snelheid in de vertikaal

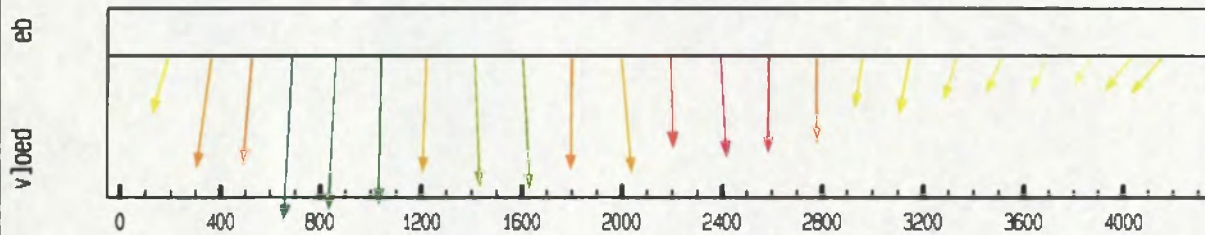
afstand uit nulpunt : 688 m  
 stroomsnelheid : 164 cm/sec  
 stroomrichting : 95°

doorstroomoppervlak : 76605 m²  
 naaidebiet : -88754 m³/sec

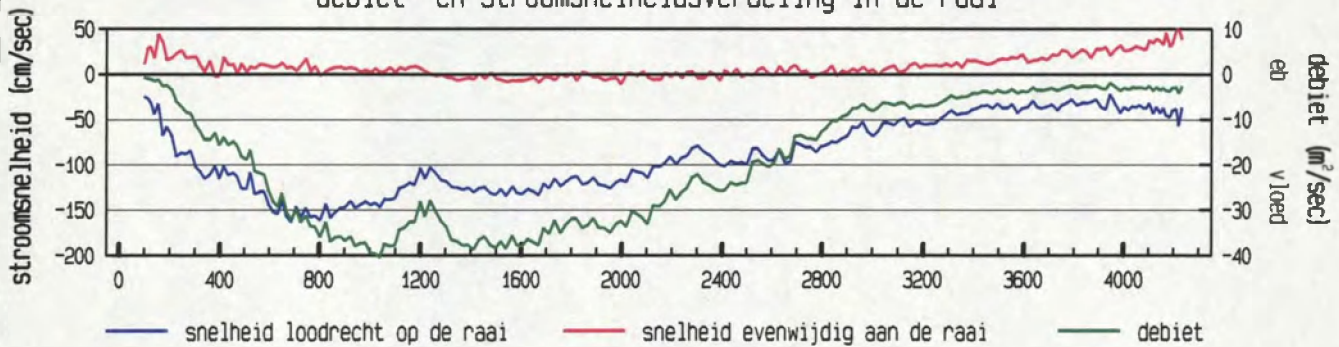
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



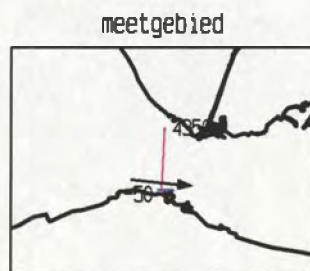
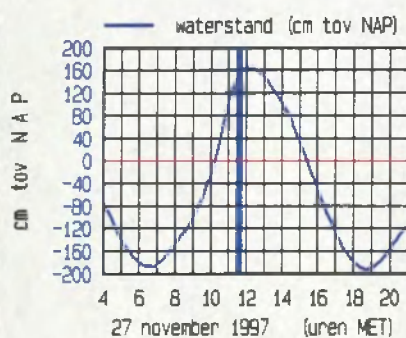
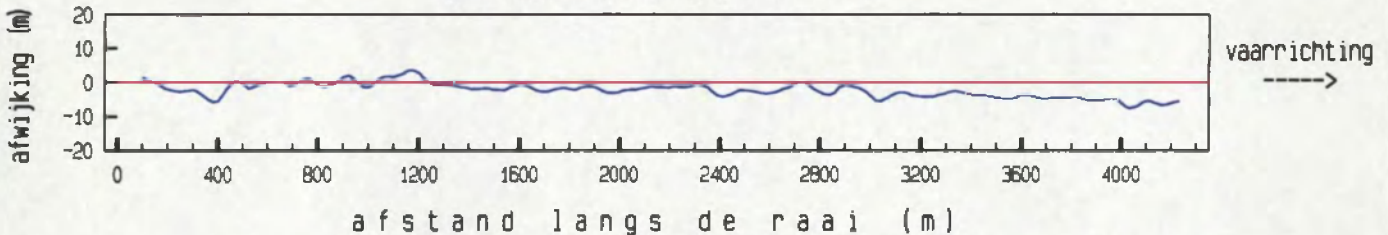
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

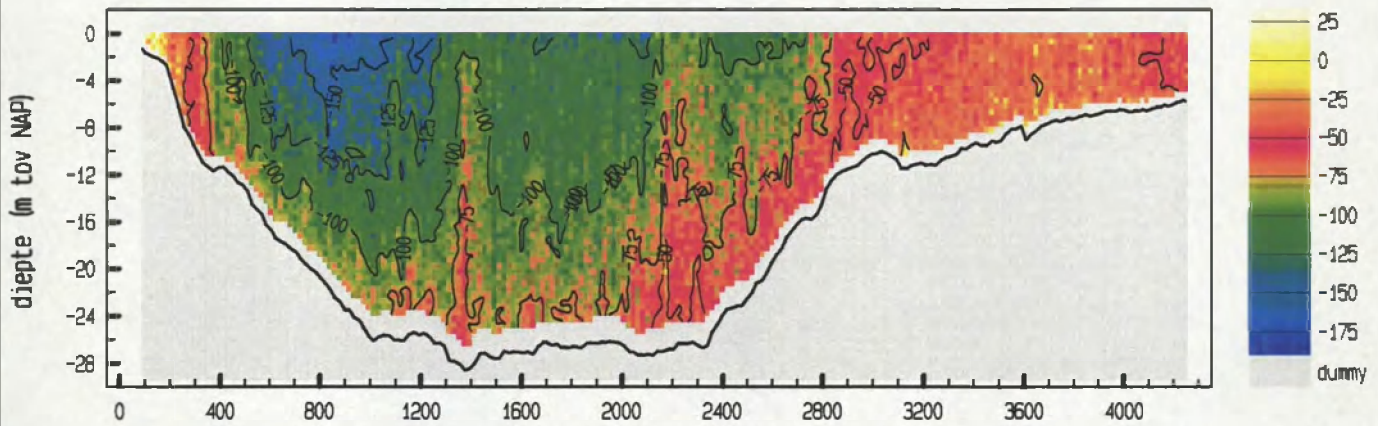


maximum gemiddelde stroom-  
 snelheid in de vertikaal

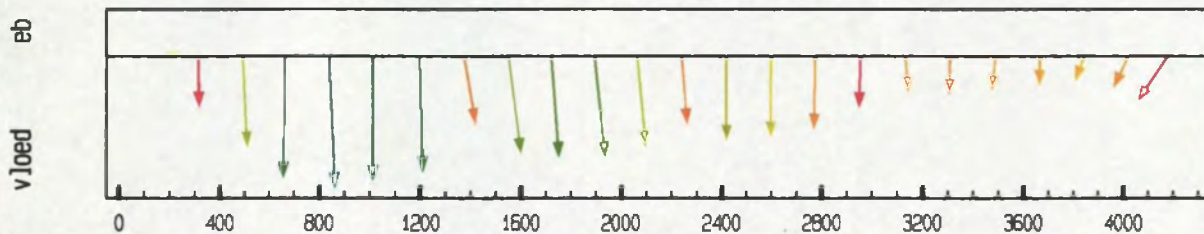
afstand uit nulpunt : 689 m  
 stroomsnelheid : 163 cm/sec  
 stroomrichting : 96 °

doorstroomoppervlak : 77470 m<sup>2</sup>  
 raai debiet : -79985 m<sup>3</sup>/sec

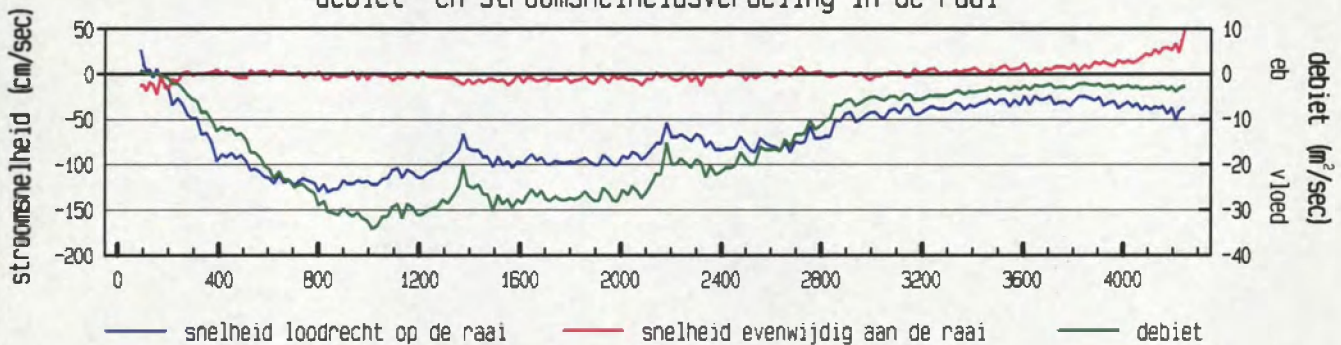
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



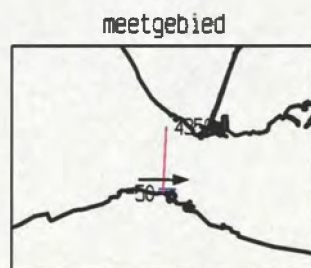
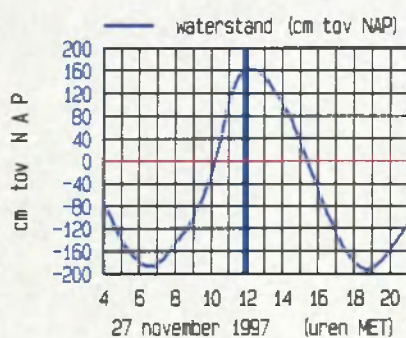
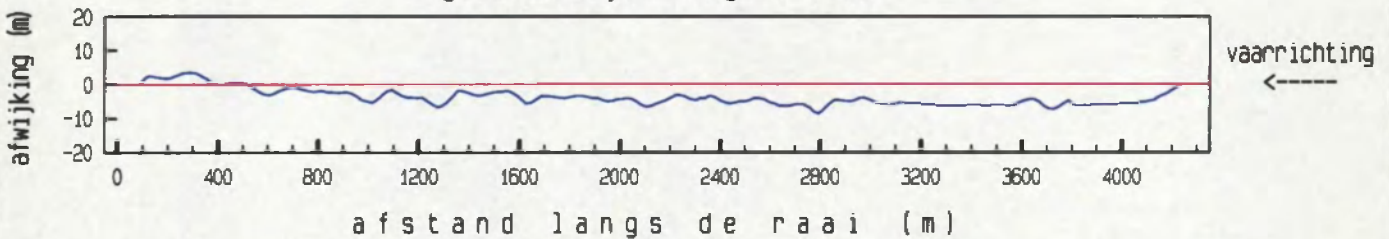
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaaren traject langs de raai

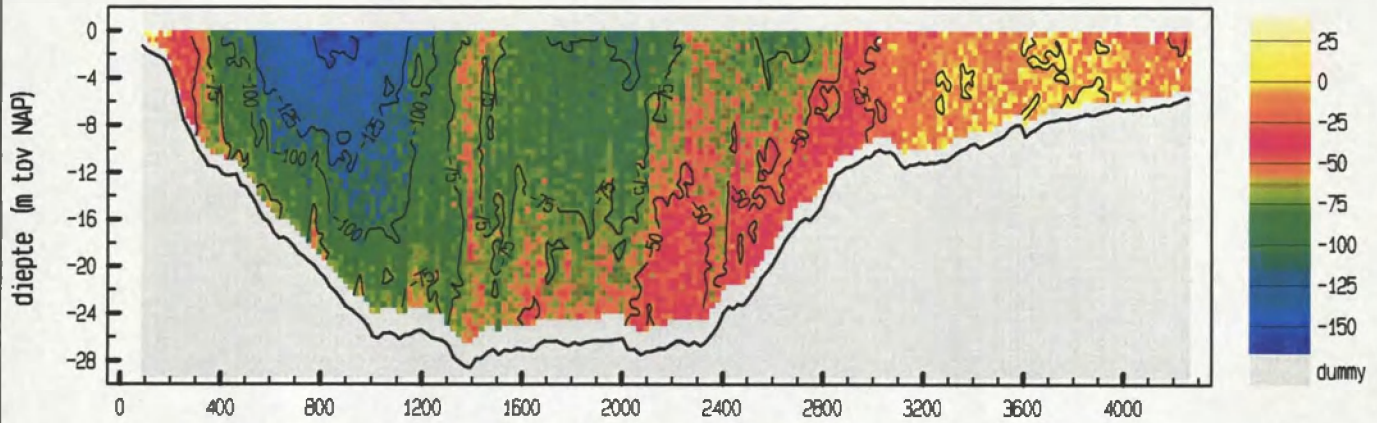


maximum gemiddelde stroom-  
 snelheid in de vertikaal

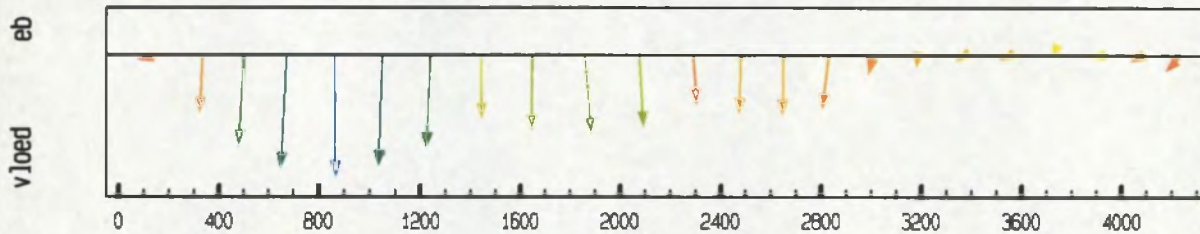
afstand uit nulpunt : 840 m  
 stroomsnelheid : 130 cm/sec  
 stroomrichting : 90°

doorstroomoppervlak : 78058 m<sup>2</sup>  
 raaidebiet : -64384 m<sup>3</sup>/sec

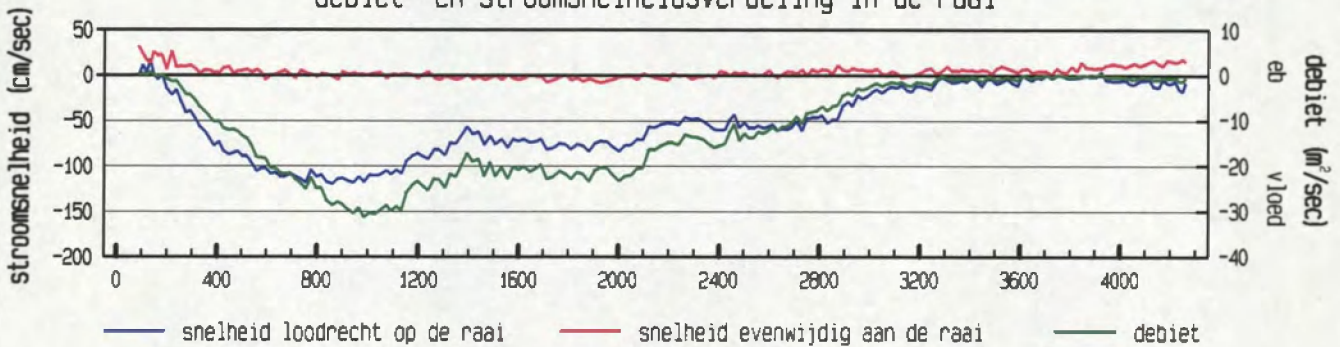
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



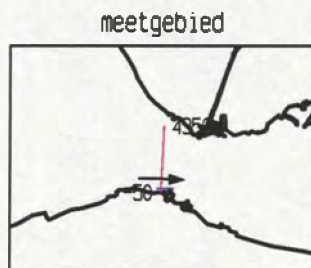
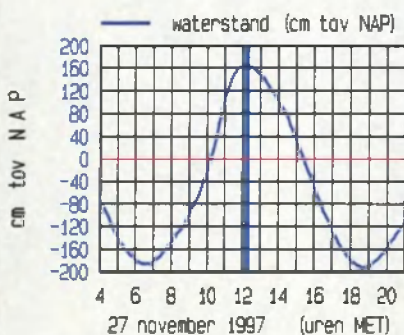
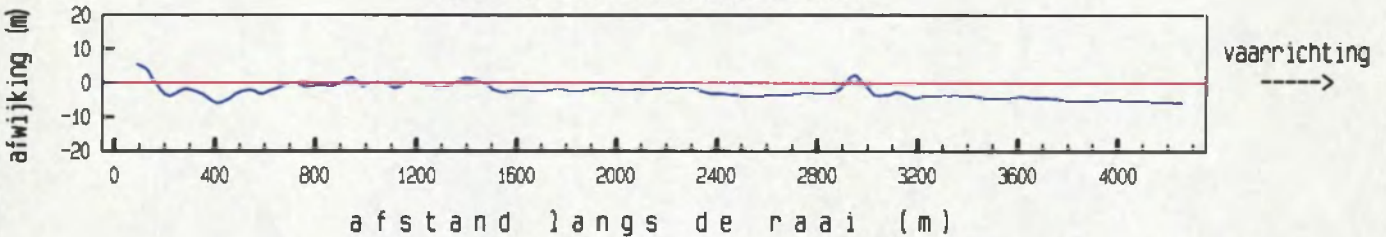
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



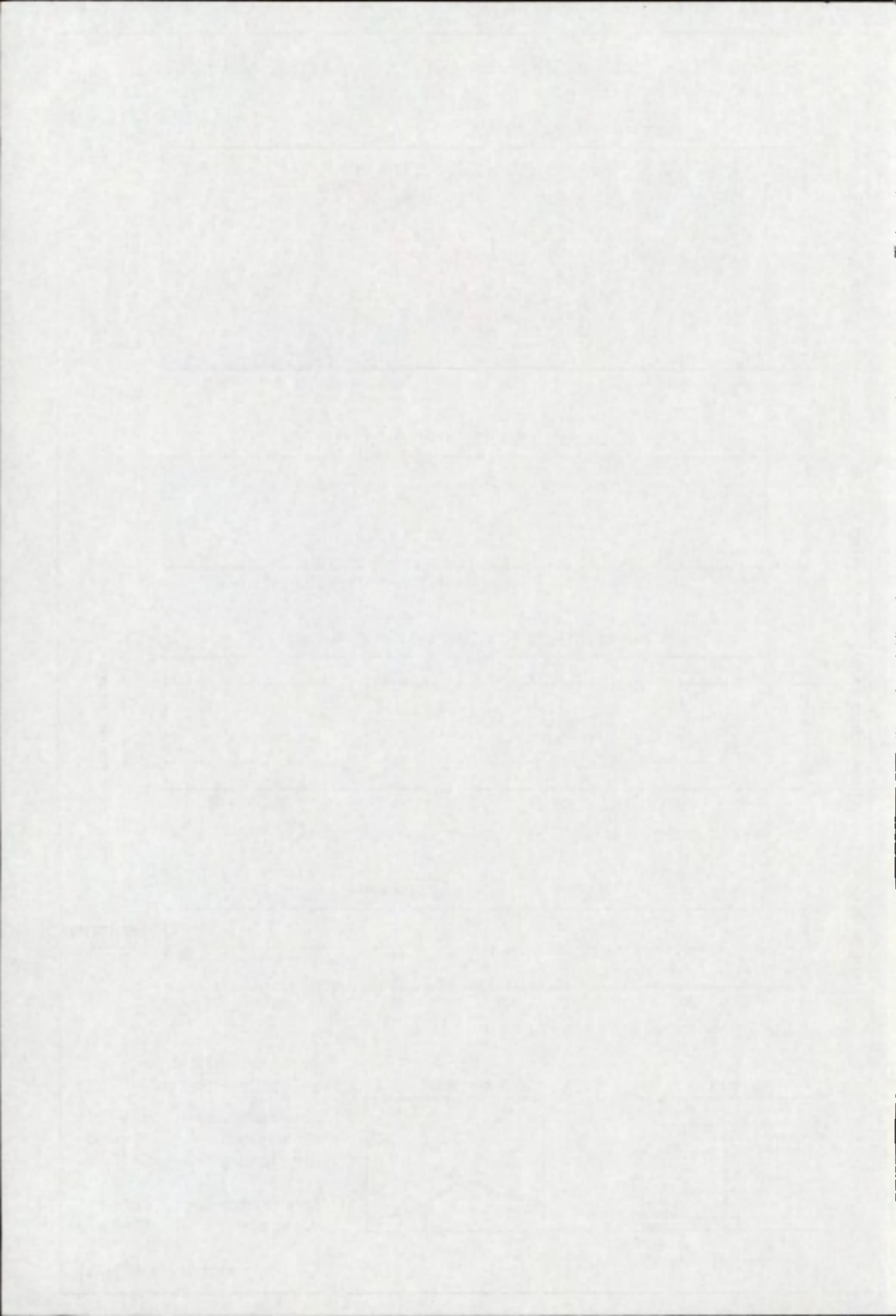
gevaren traject langs de raai



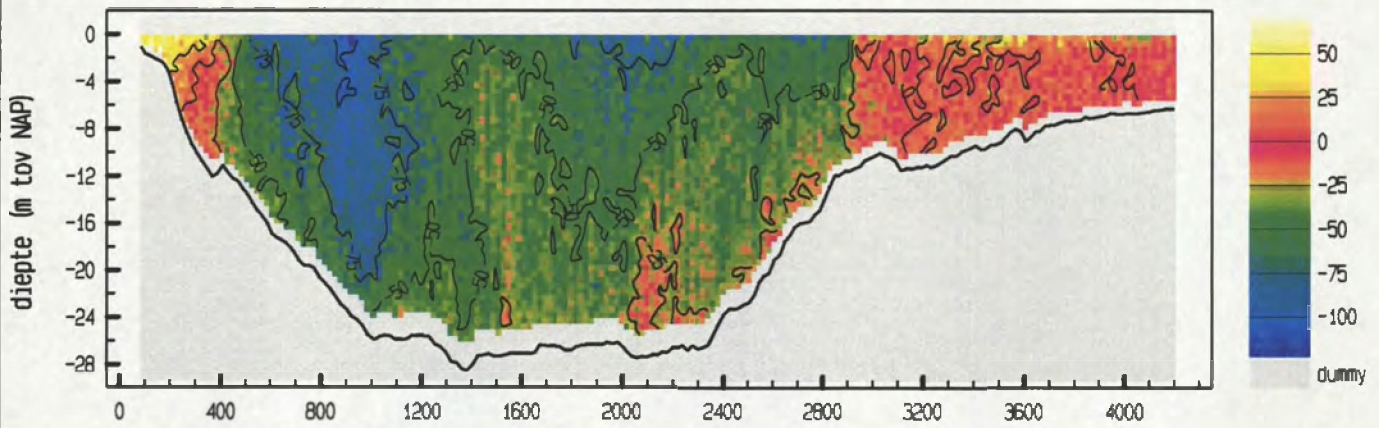
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 862 m  
 stroomsnelheid : 120 cm/sec  
 stroomrichting : 92°

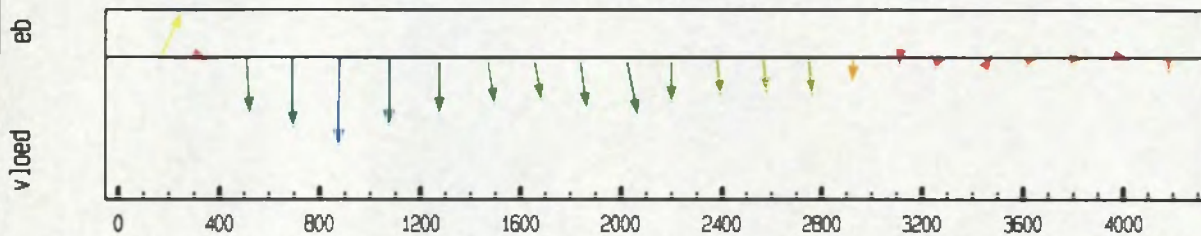
doorstroomoppervlak : 78184 m²  
 raaidebiet : -50046 m³/sec



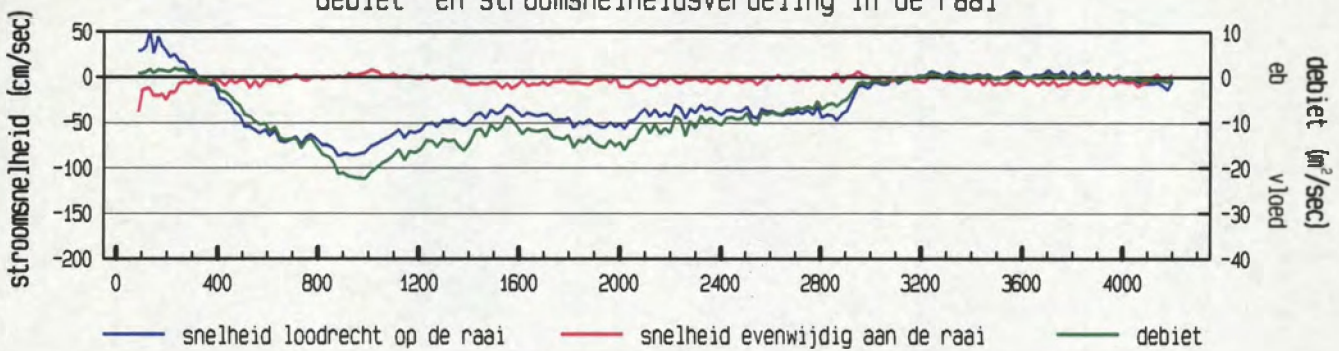
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



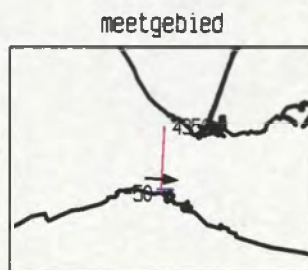
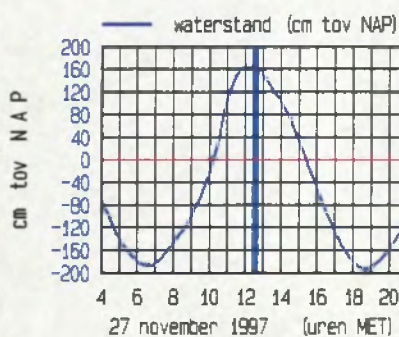
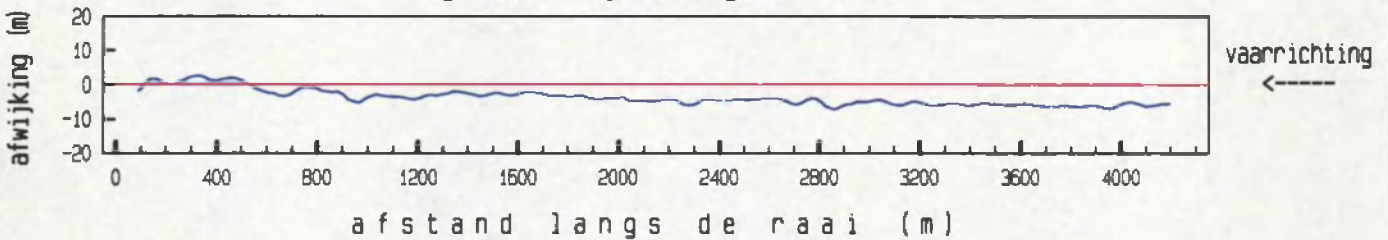
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

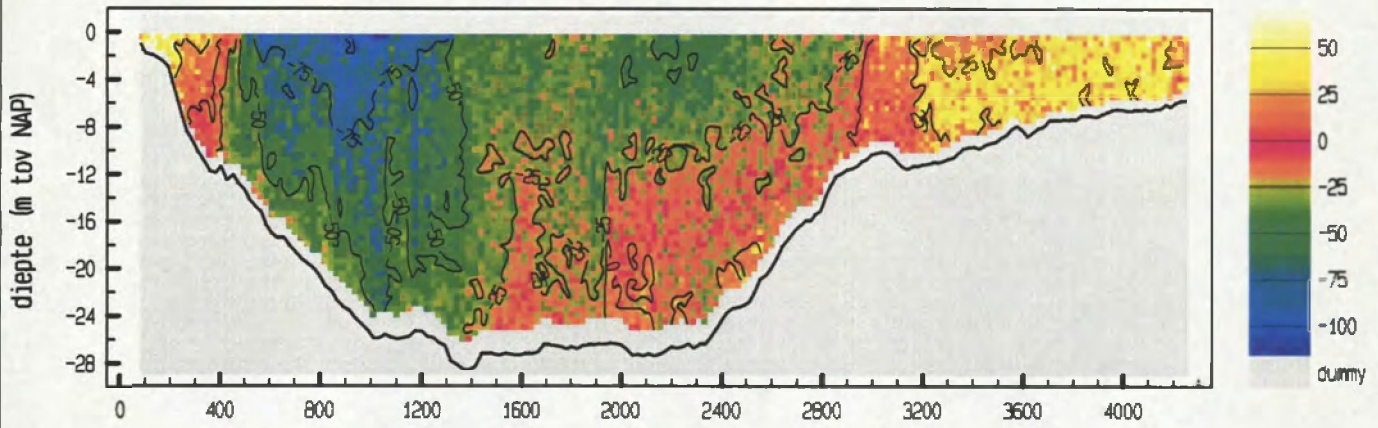


maximum gemiddelde stroom-  
 snelheid in de vertikaal

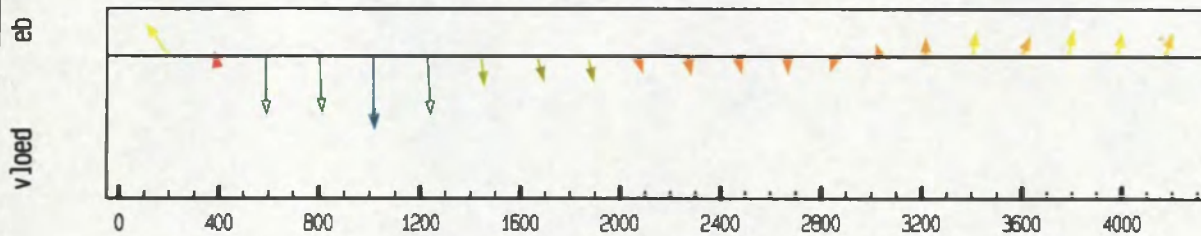
afstand uit nulpunt : 880 m  
 stroomsnelheid : 87 cm/sec  
 stroomrichting : 94 °

doorstroomoppervlak : 77509 m²  
 raaidebiet : -30527 m³/sec

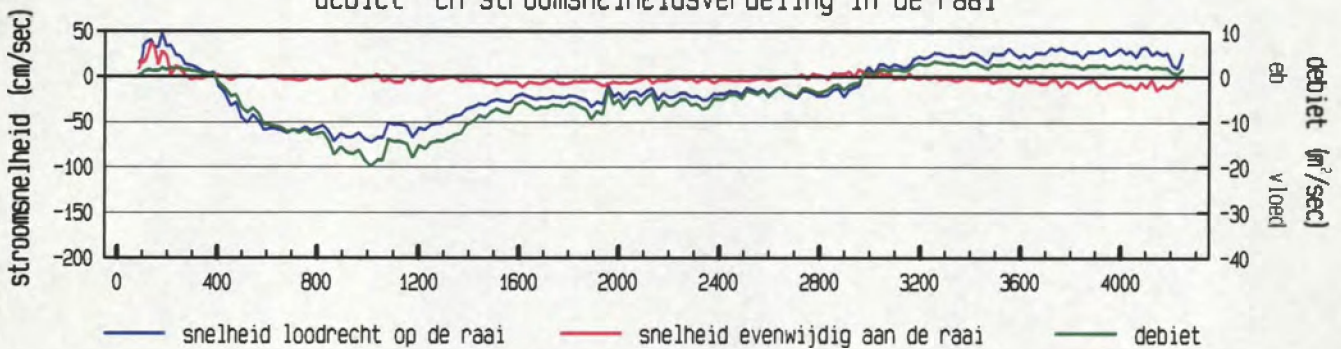
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



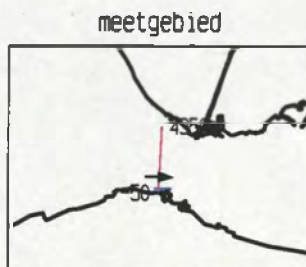
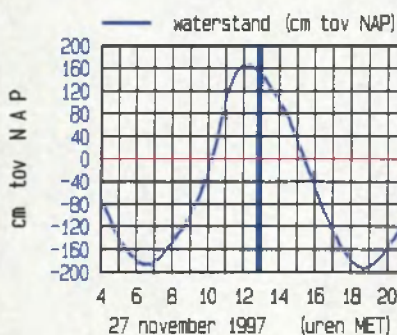
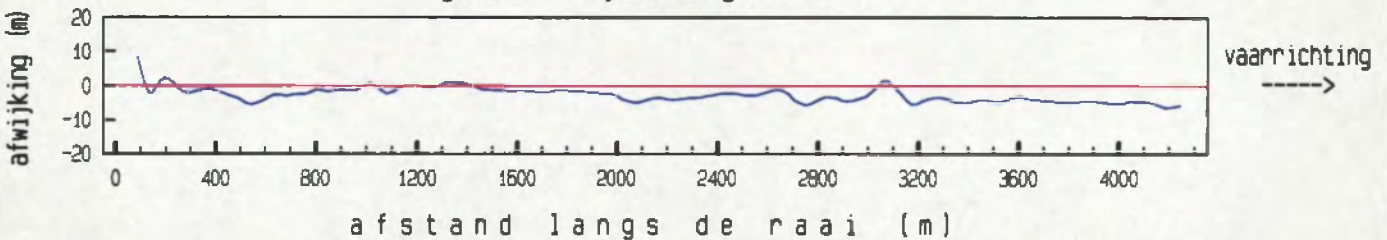
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

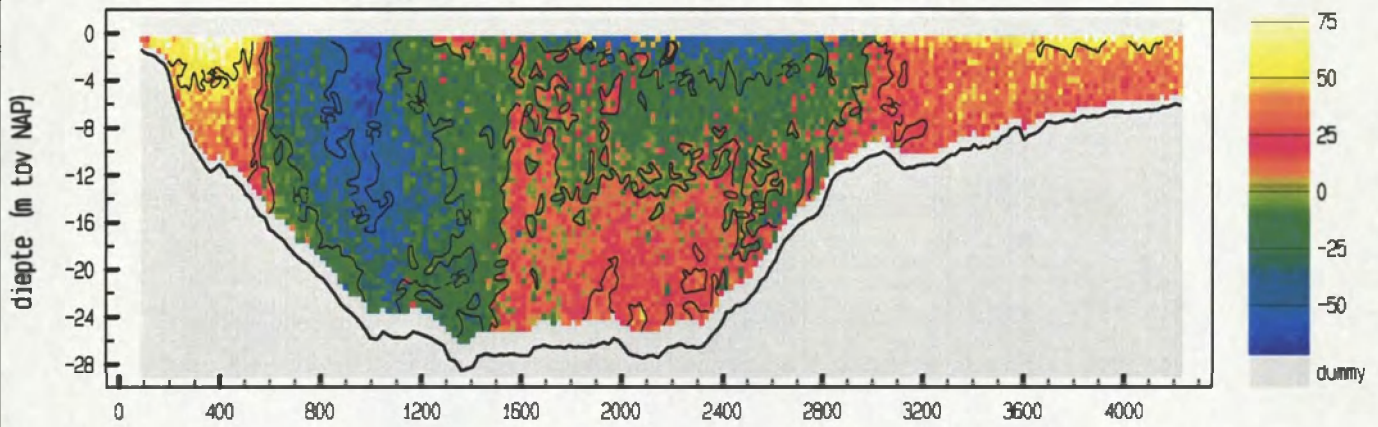


maximum gemiddelde stroom-  
 snelheid in de vertikaal

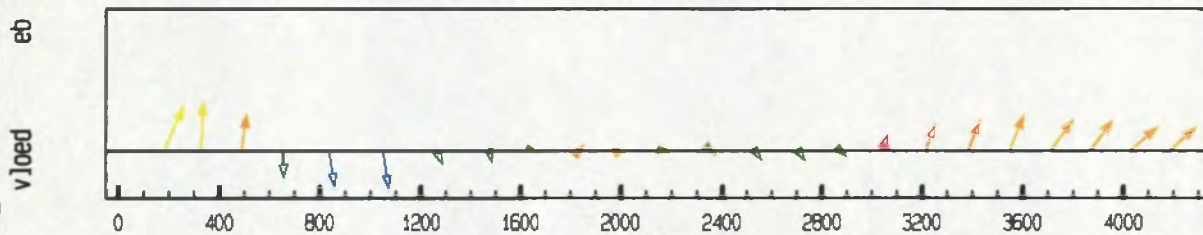
afstand uit nulpunt : 1013 m  
 stroomsnelheid : 72 cm/sec  
 stroomrichting : 92 °

doorstroomoppervlak : 77478 m<sup>2</sup>  
 raaidebiet : -17813 m<sup>3</sup>/sec

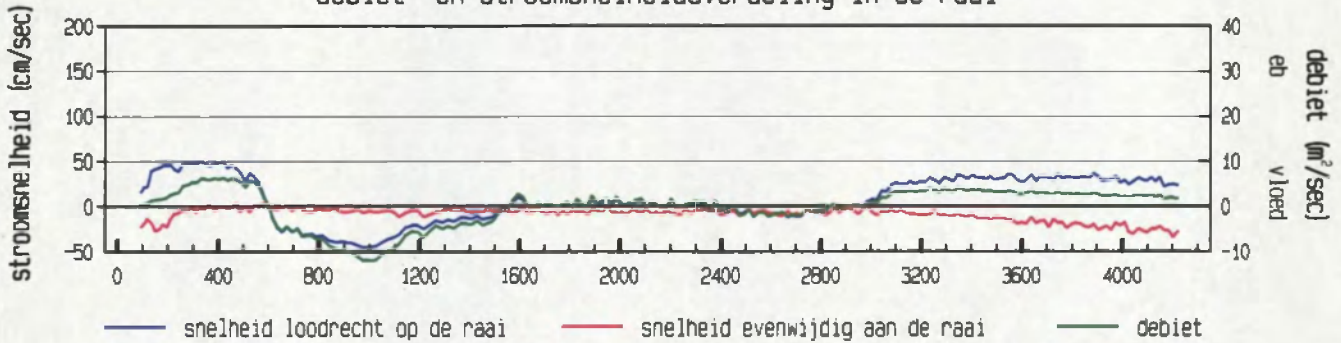
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



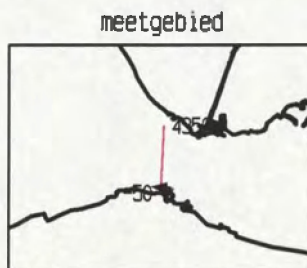
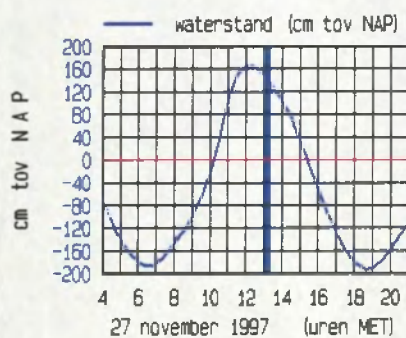
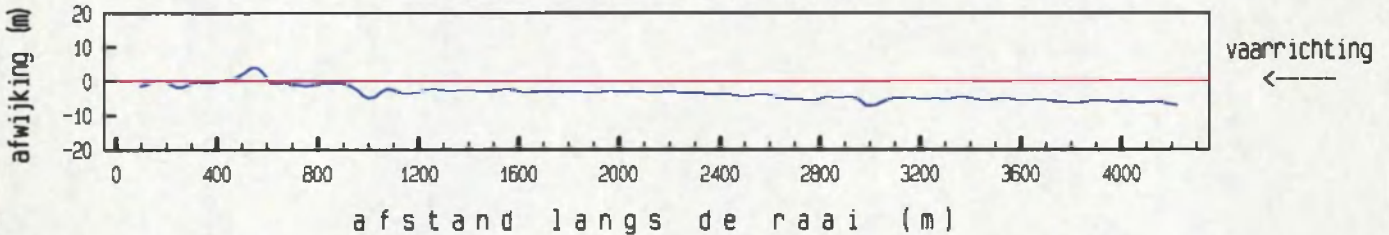
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



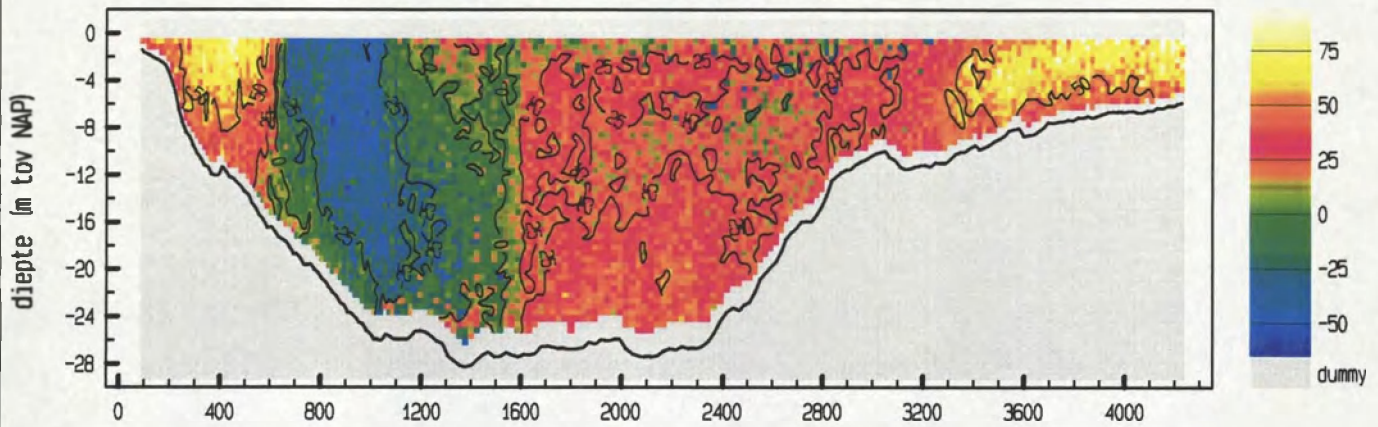
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 328 m  
 stroomsnelheid : 51 cm/sec  
 stroomrichting : 274 °

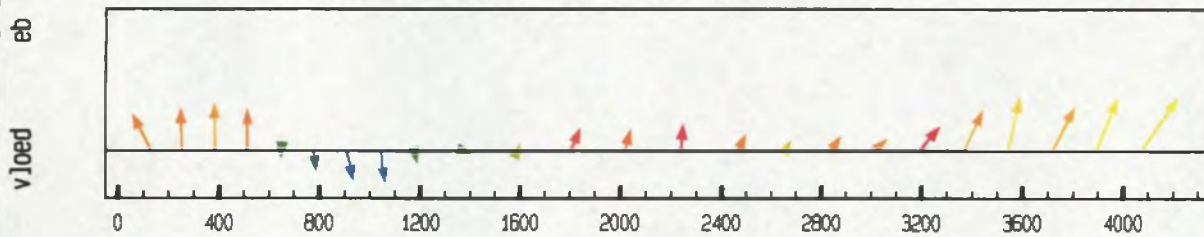
doorstroomoppervlak : 76822 m²  
 raaidebiet : -370 m³/sec



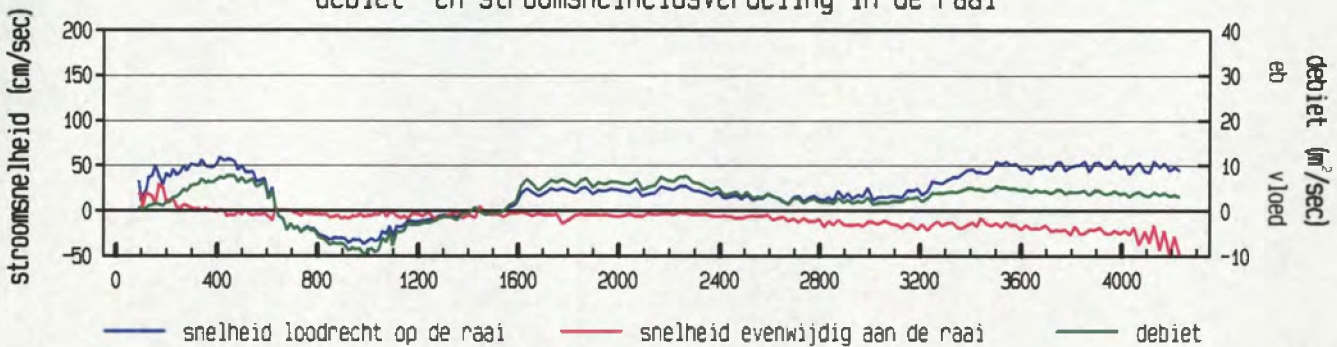
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



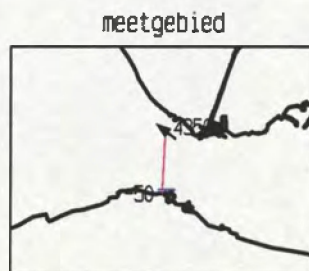
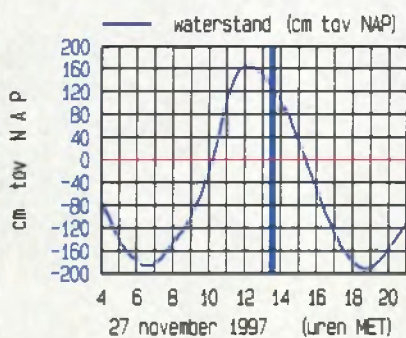
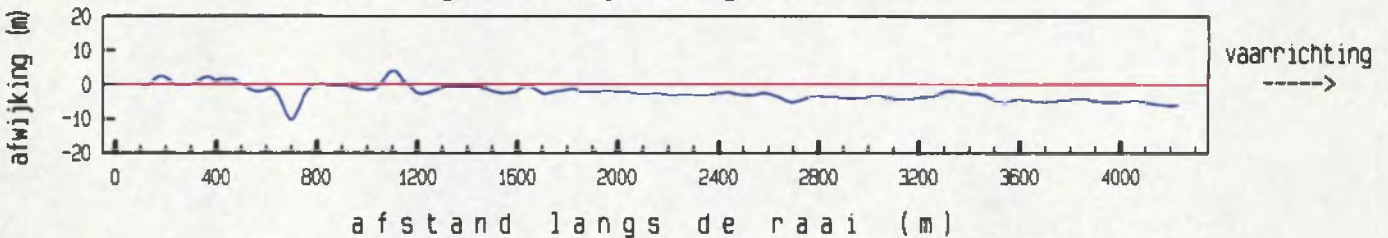
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



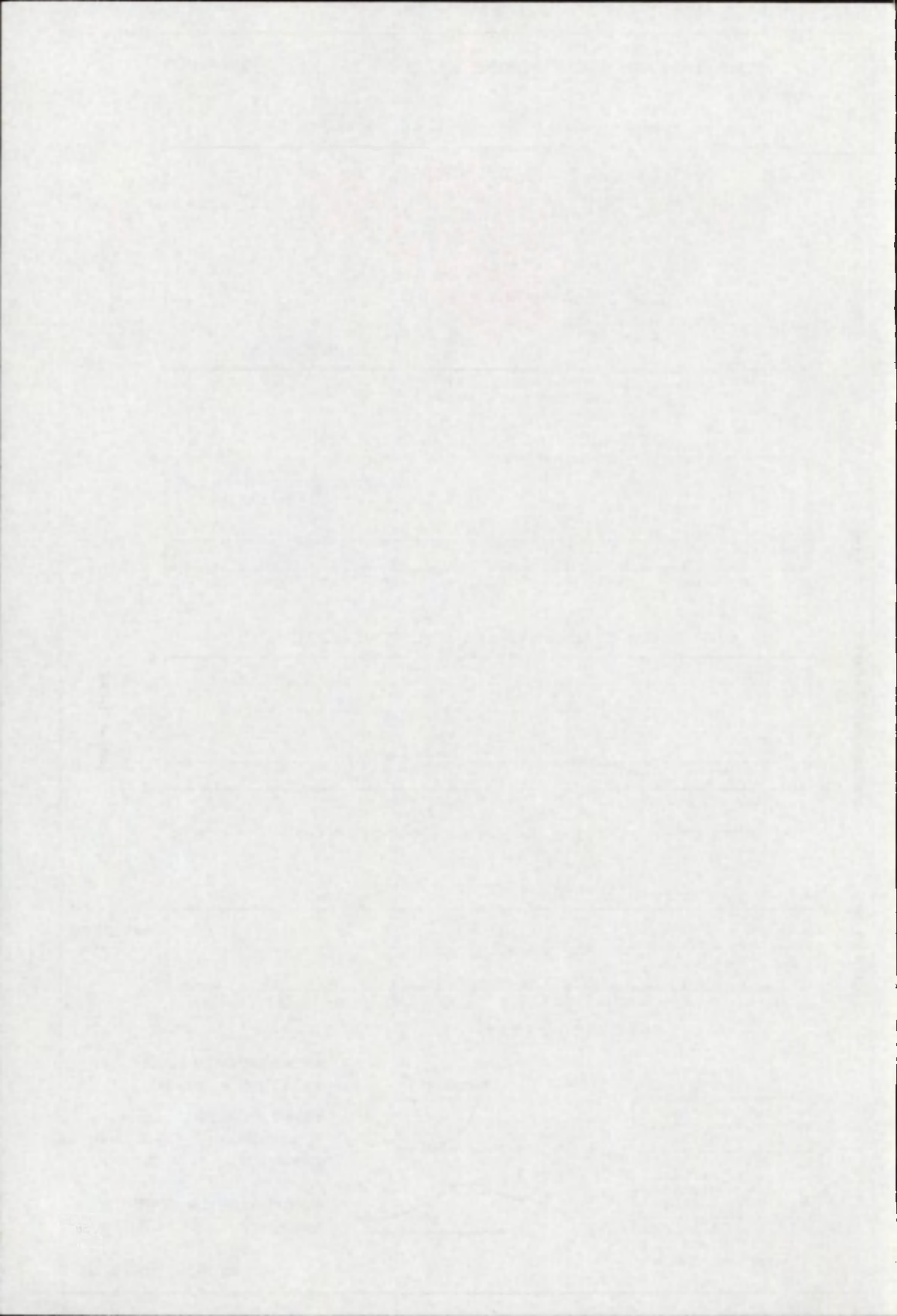
gevaren traject langs de raai



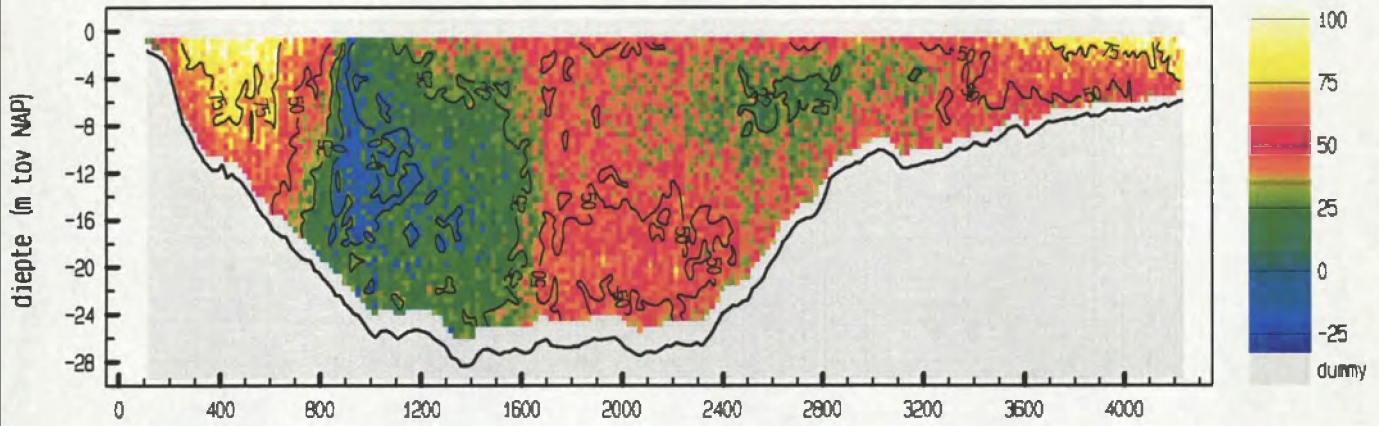
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4069 m  
 stroomsnelheid : 66 cm/sec  
 stroomrichting : 307 °

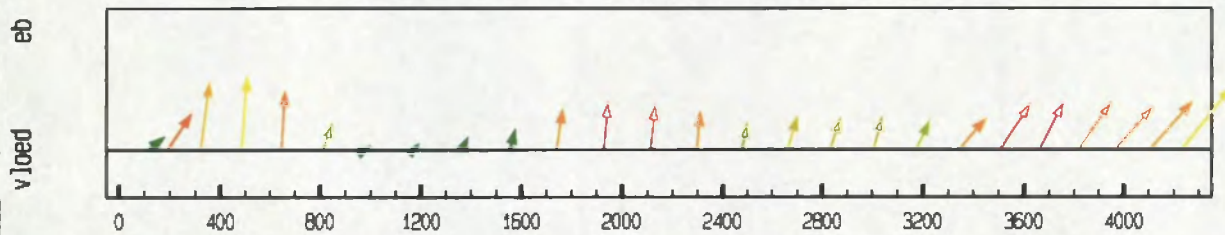
doorstroomoppervlak : 76266 m<sup>2</sup>  
 raaidebiet : 10423 m<sup>3</sup>/sec



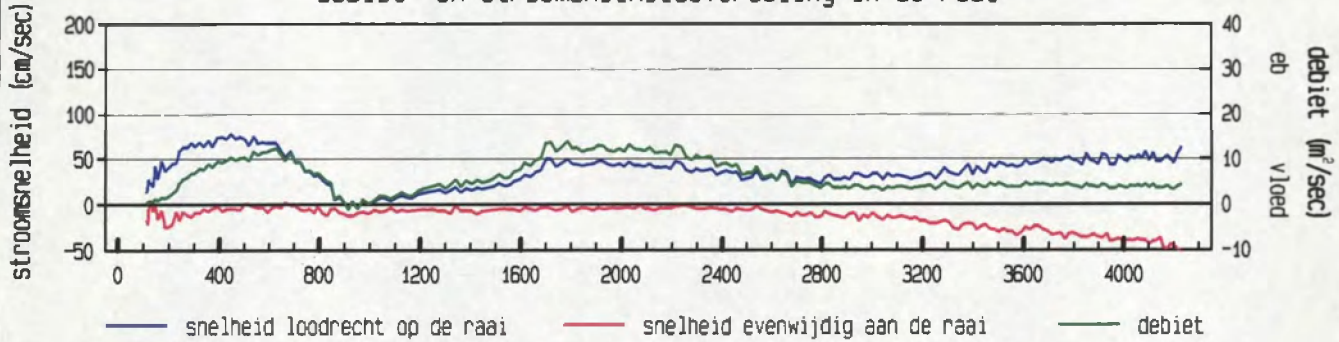
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



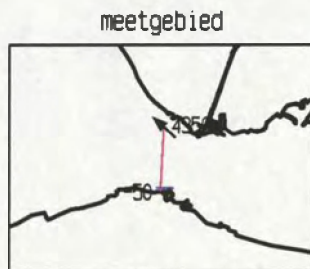
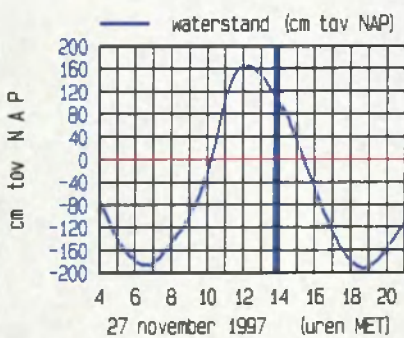
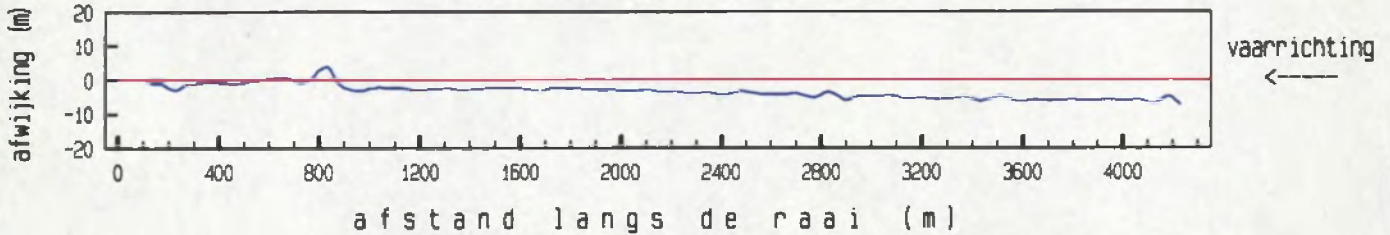
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



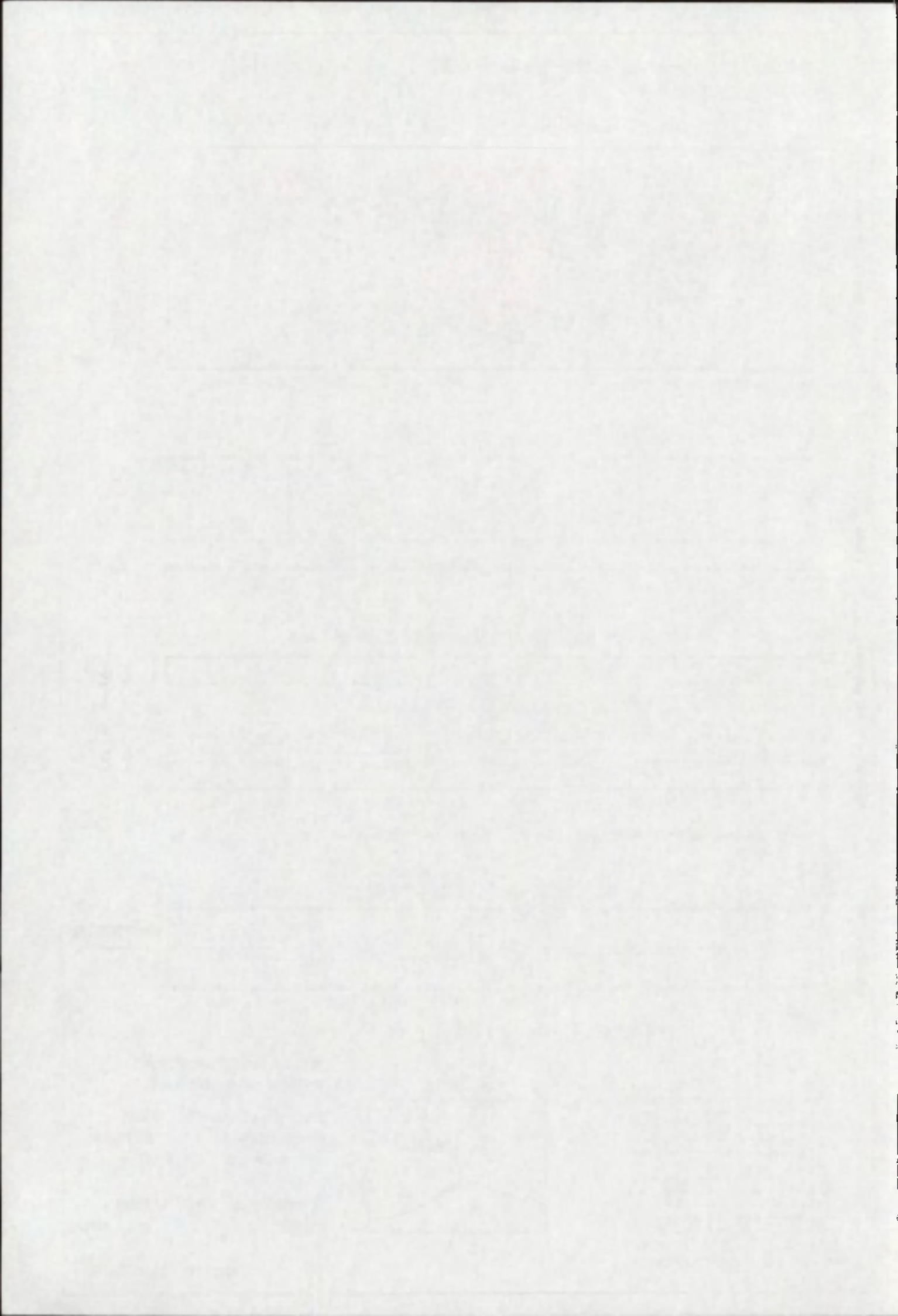
gevaren traject langs de raai



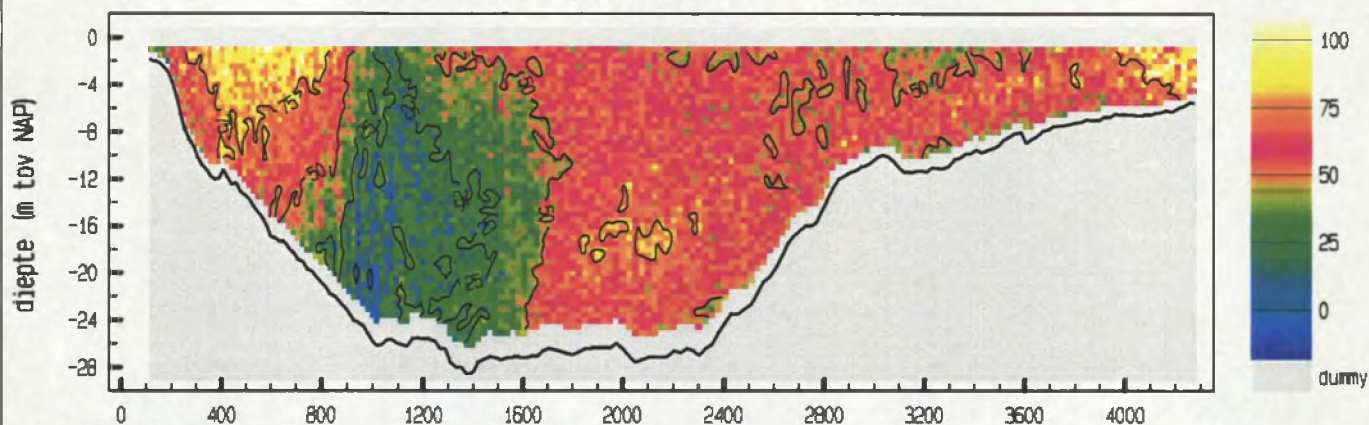
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4229 m  
 stroomsnelheid : 81 cm/sec  
 stroomrichting : 311 °

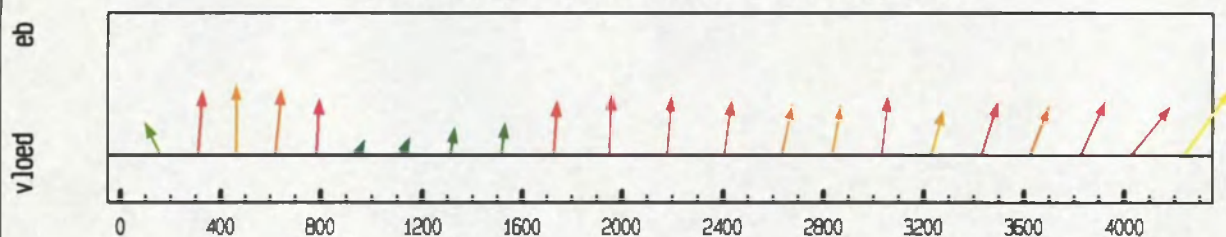
doorstroomoppervlak : 75498 m<sup>2</sup>  
 raaidebiet : 25607 m<sup>3</sup>/sec



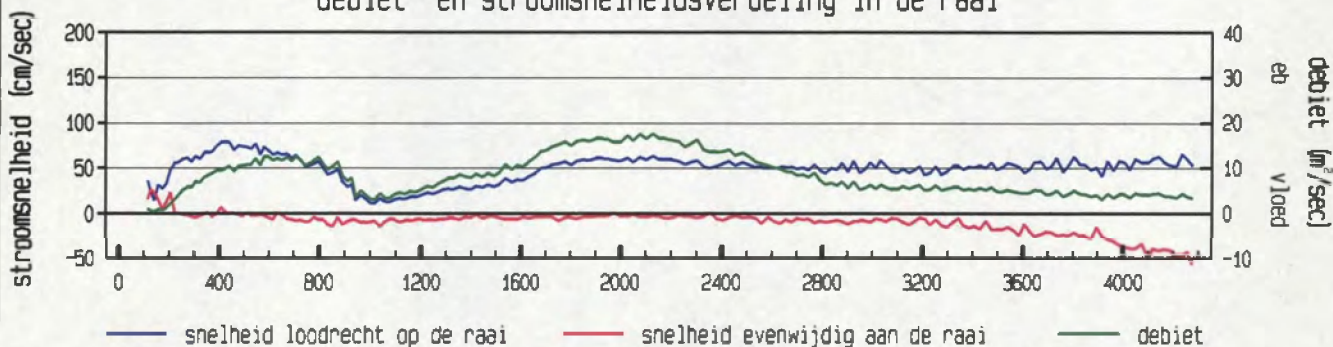
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



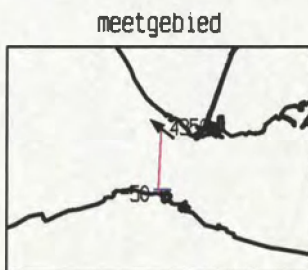
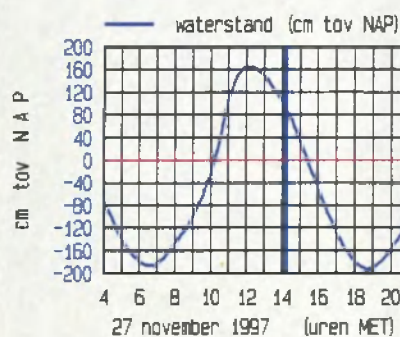
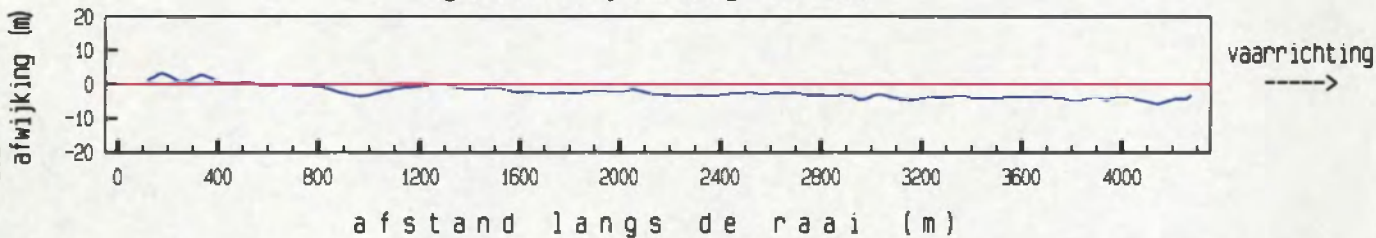
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

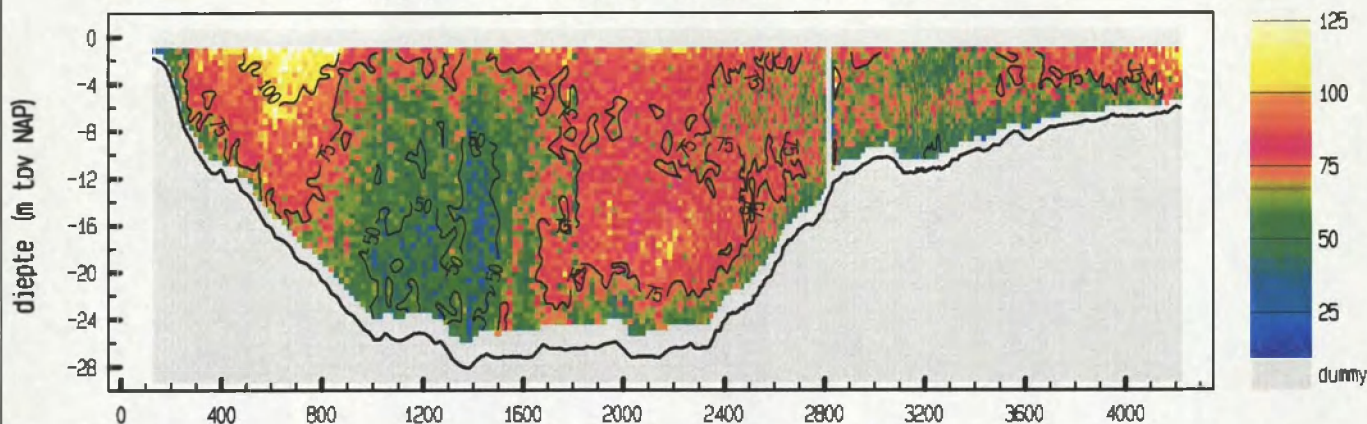


maximum gemiddelde stroom-  
 snelheid in de vertikaal

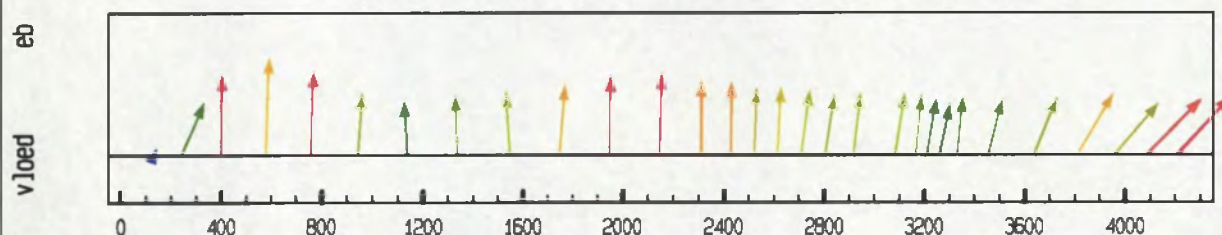
afstand uit nulpunt : 4234 m  
 stroomsnelheid : 80 cm/sec  
 stroomrichting : 308 °

doorstroomoppervlak : 75043 m²  
 raaidebiet : 35627 m³/sec

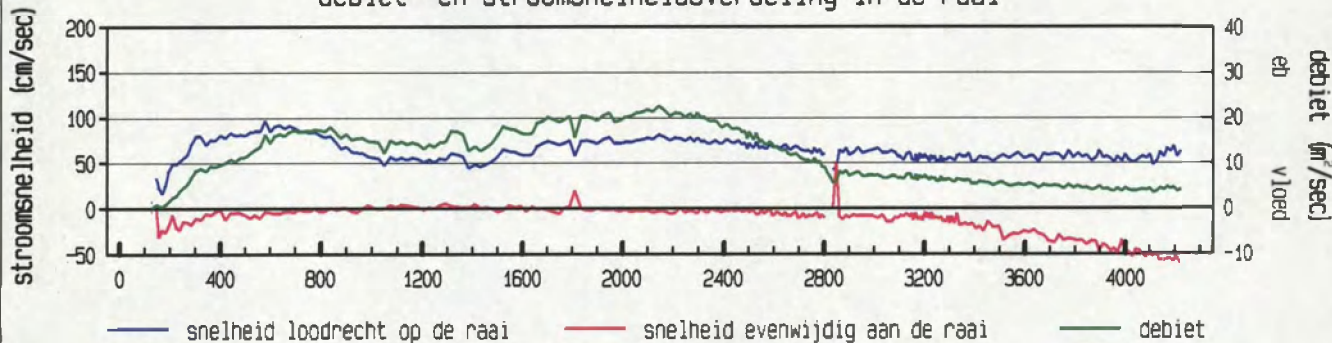
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



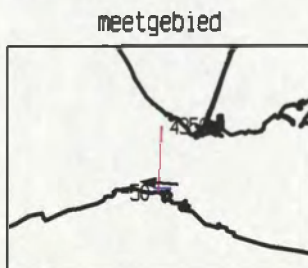
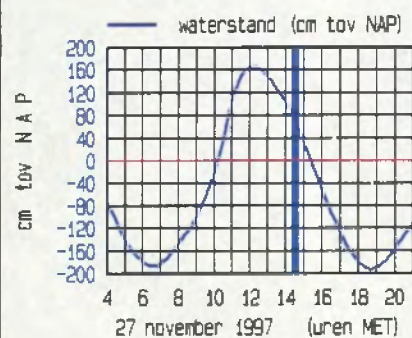
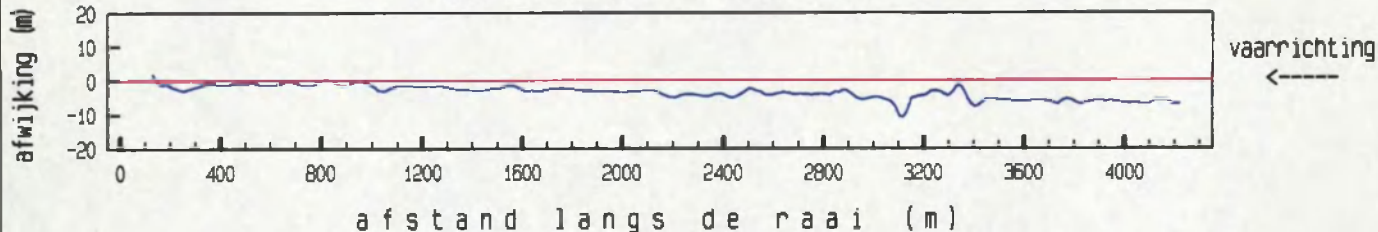
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

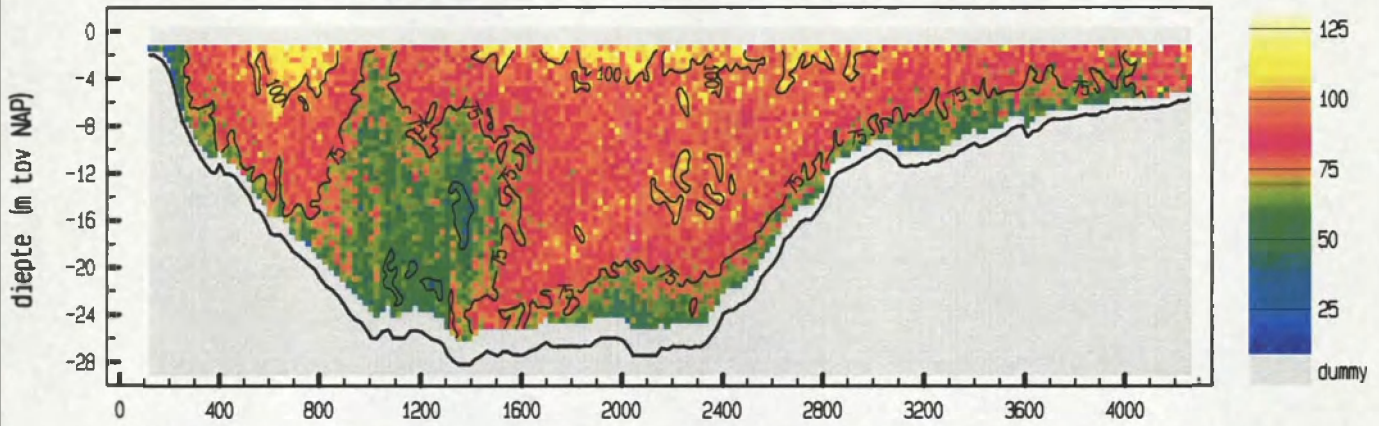


maximum gemiddelde stroom-  
 snelheid in de vertikaal

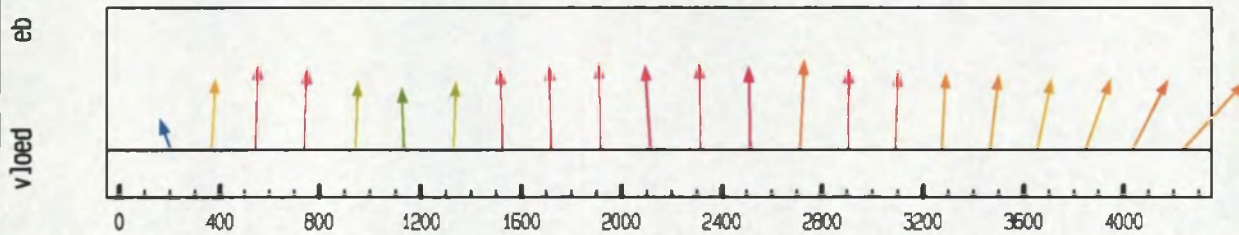
afstand uit nulpunt : 579 m  
 stroomsnelheid : 97 cm/sec  
 stroomrichting : 275 °

doorstroomoppervlak : 73847 m<sup>2</sup>  
 raaidebiet : 48783 m<sup>3</sup>/sec

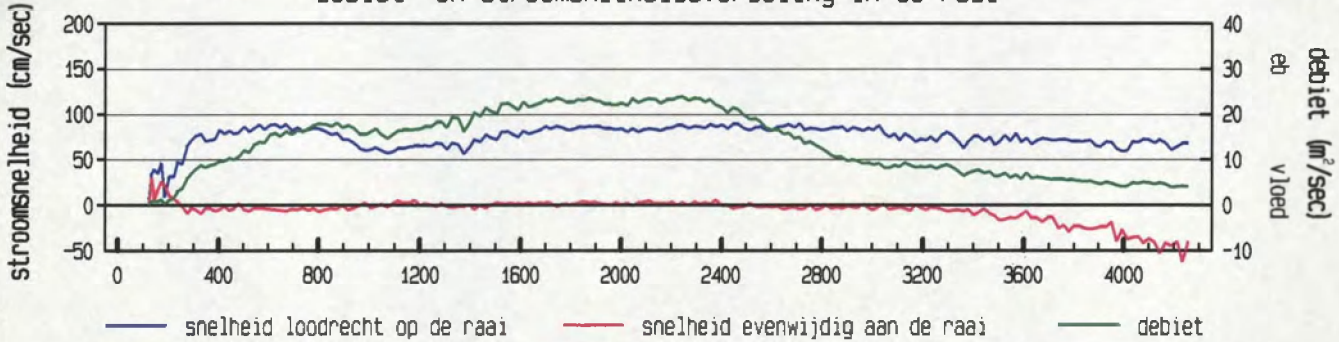
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



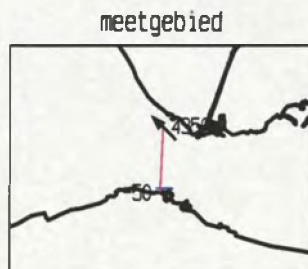
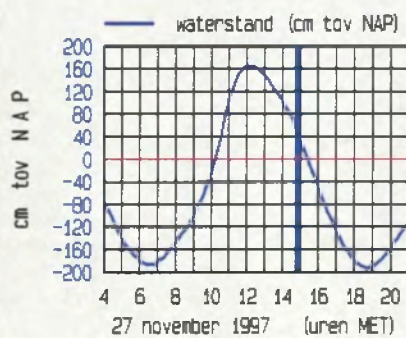
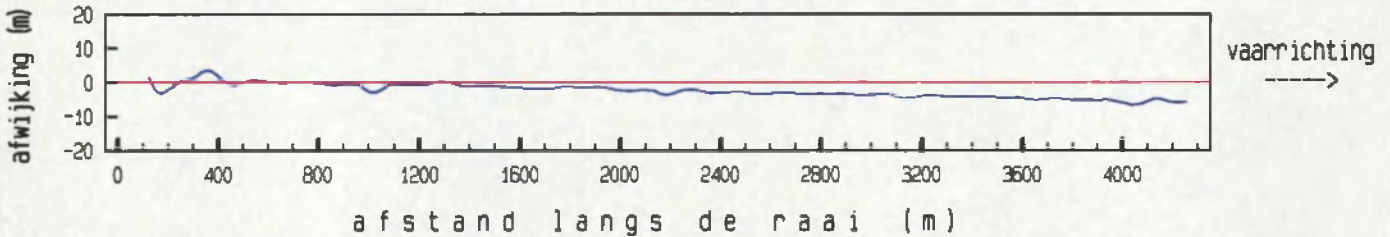
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

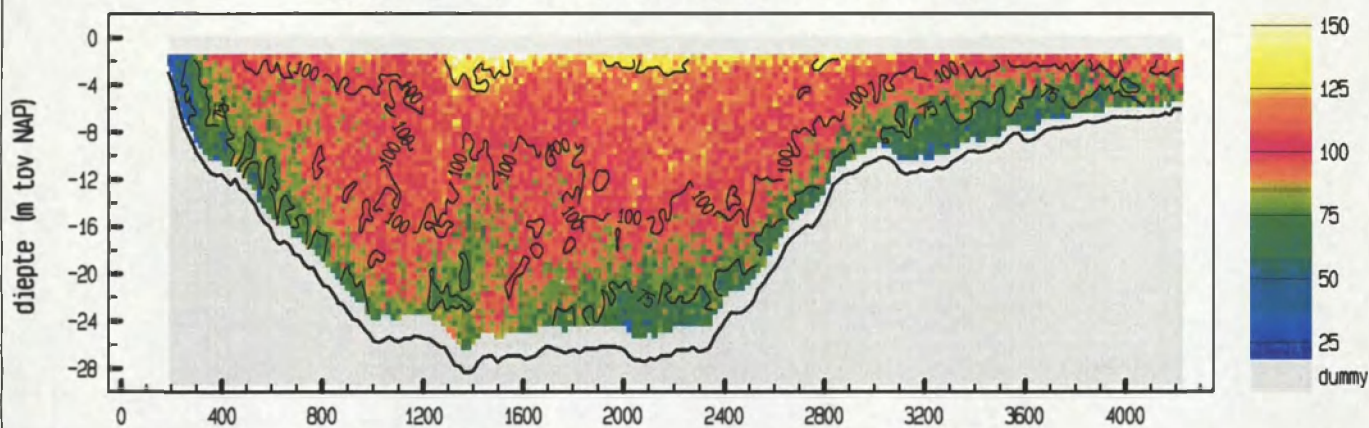


maximum gemiddelde stroom-  
 snelheid in de vertikaal

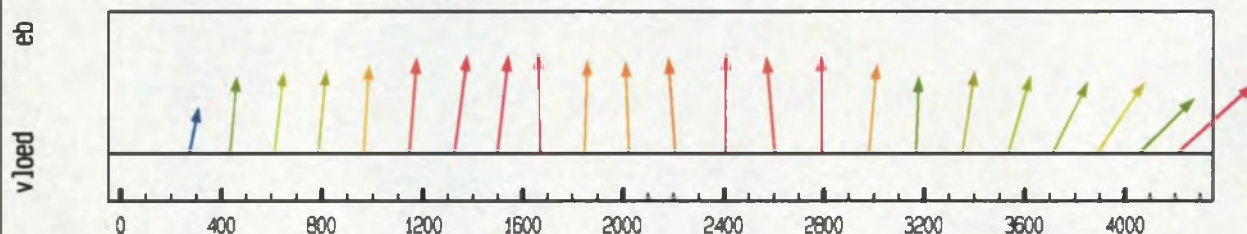
afstand uit nulpunt : 4234 m  
 stroomsnelheid : 92 cm/sec  
 stroomrichting : 315 °

doorstroomoppervlak : 73139 m<sup>2</sup>  
 raaidebiet : 56657 m<sup>3</sup>/sec

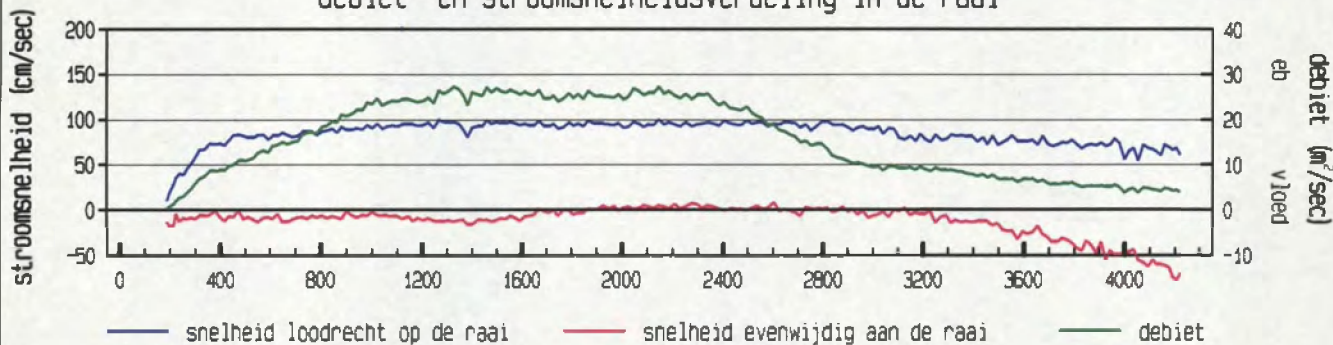
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



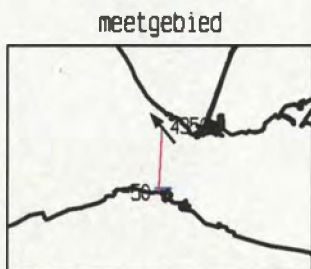
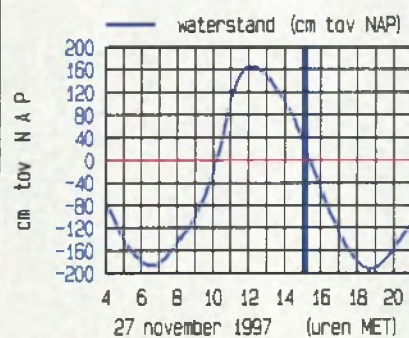
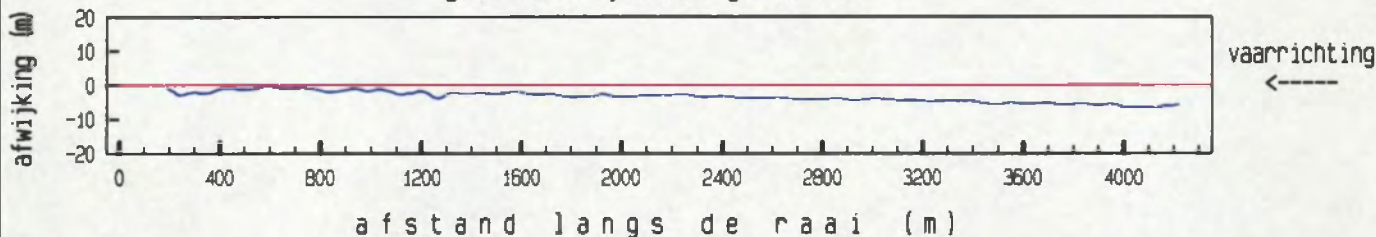
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

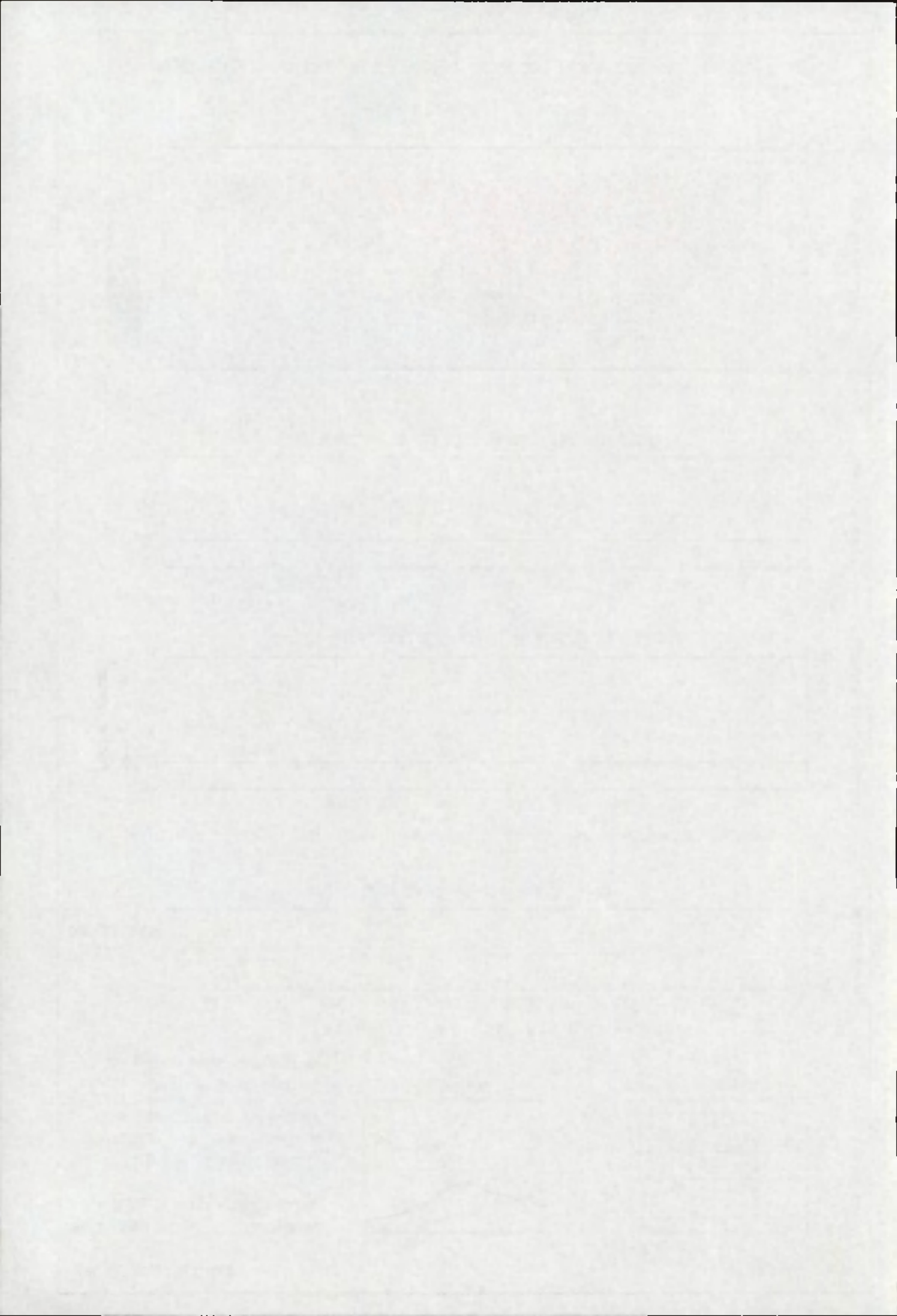


maximum gemiddelde stroom-  
 snelheid in de vertikaal

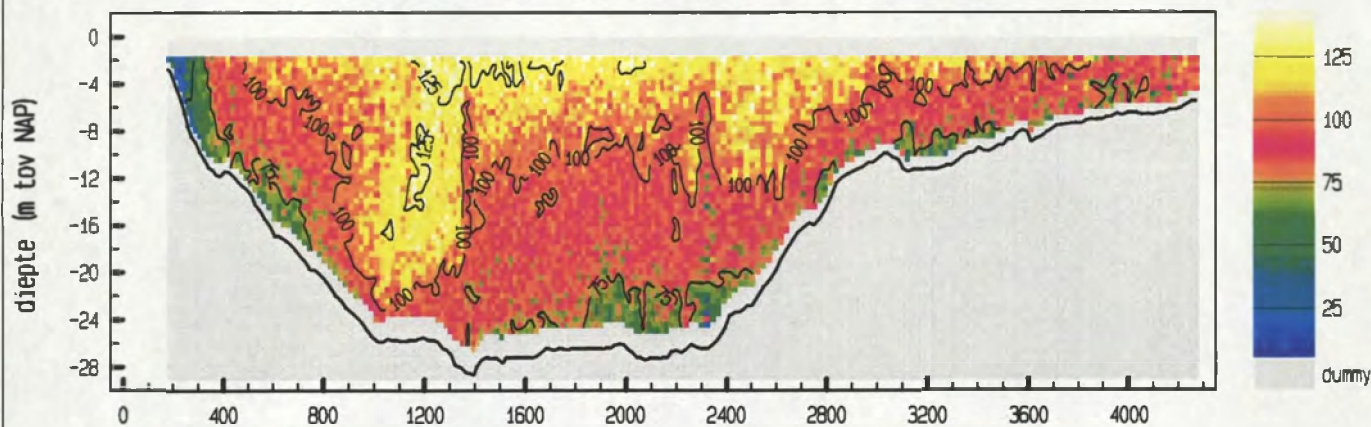
afstand uit nulpunt : 4205 m  
 stroomsnelheid : 103 cm/sec  
 stroomrichting : 321 °

doorstroomoppervlak : 71637 m<sup>2</sup>  
 raaidebet : 64013 m<sup>3</sup>/sec

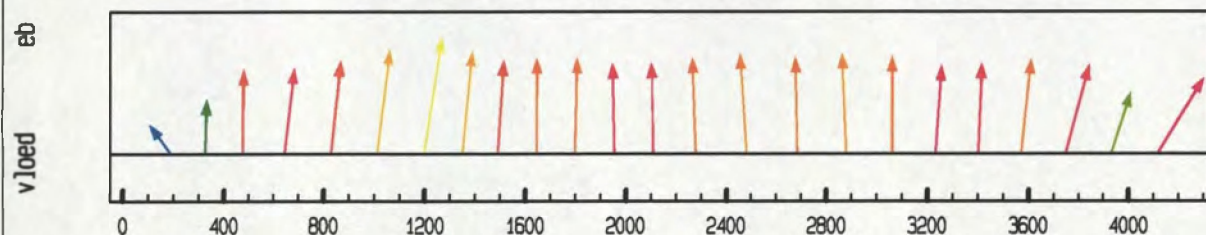




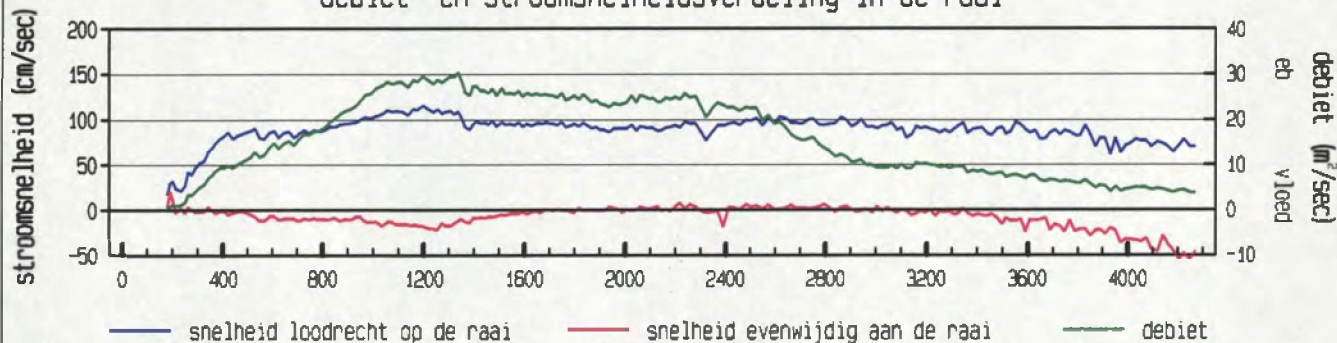
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



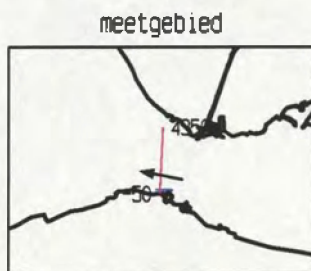
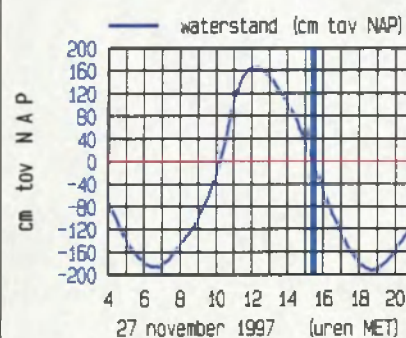
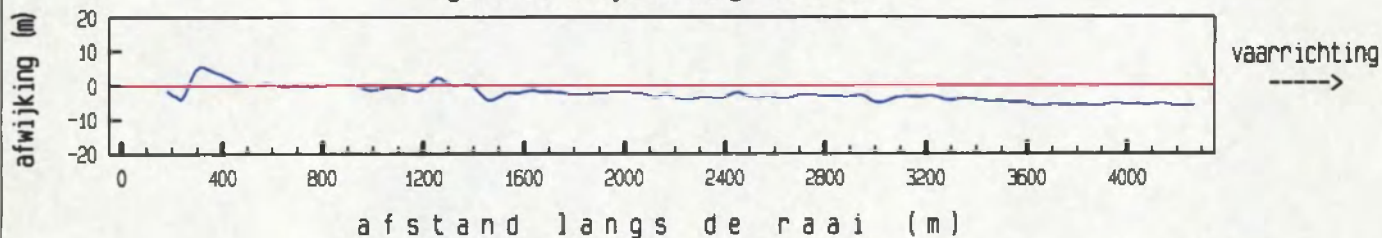
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



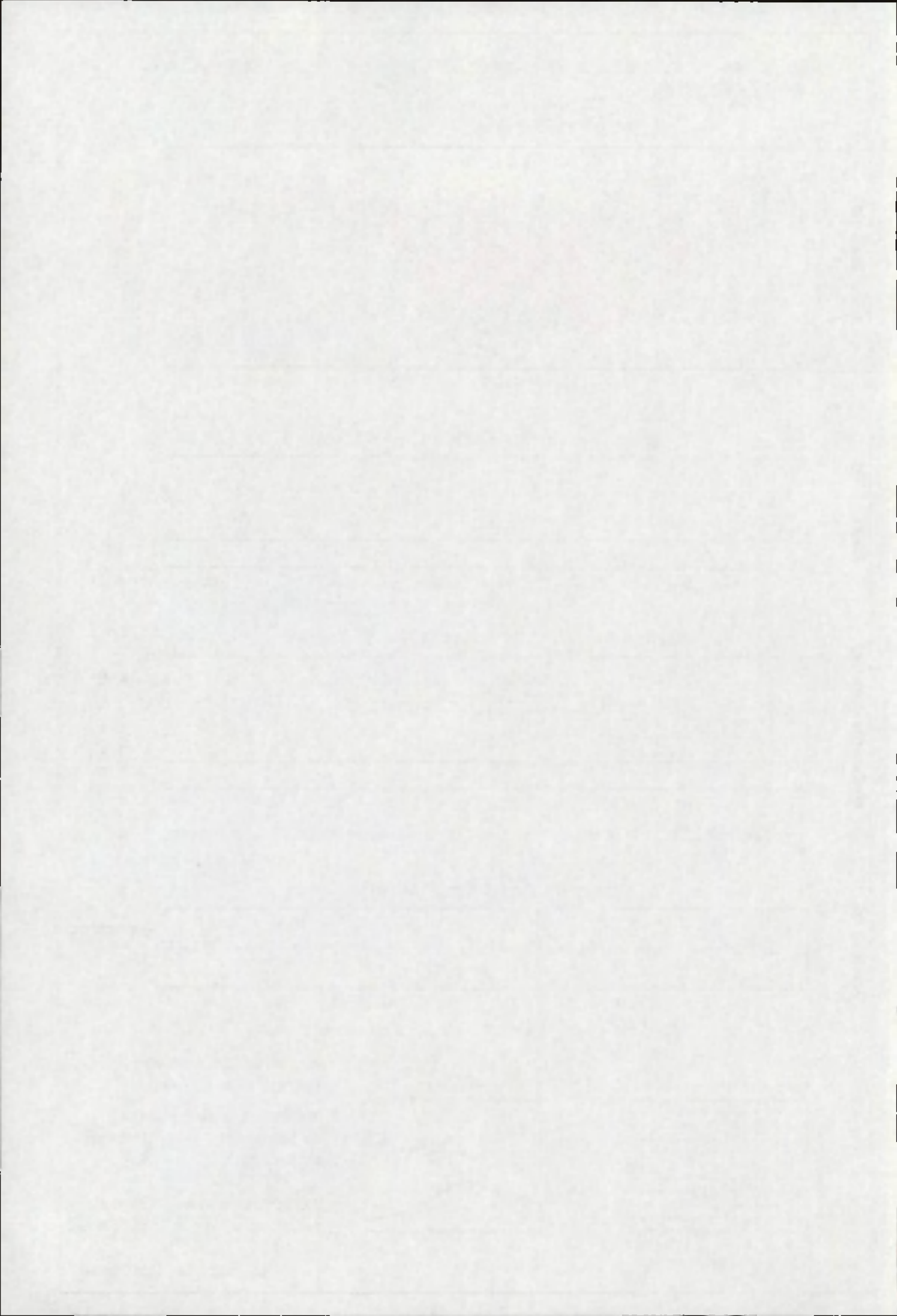
gevaren traject langs de raai



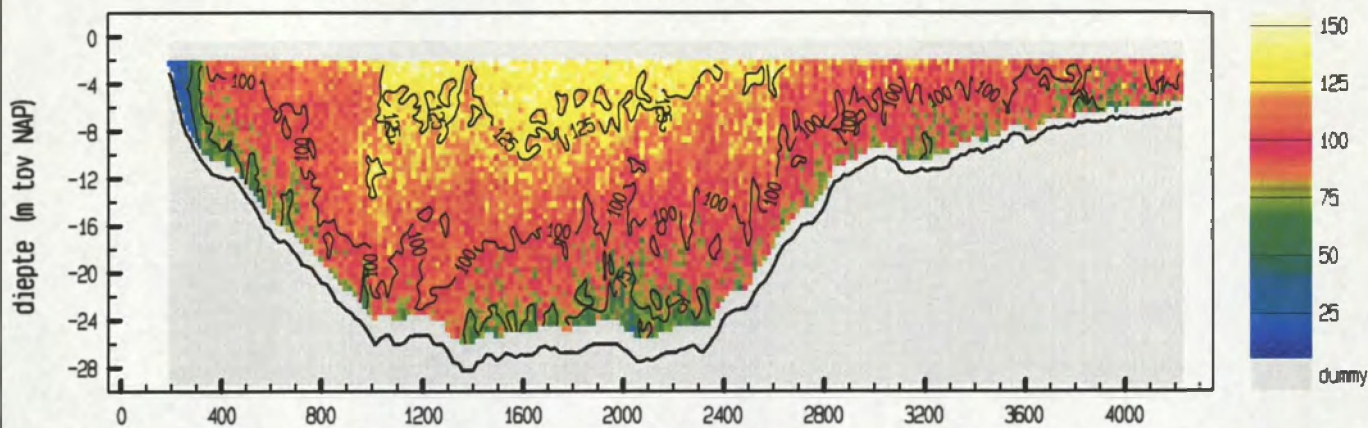
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1197 m  
 stroomsnelheid : 118 cm/sec  
 stroomrichting : 281°

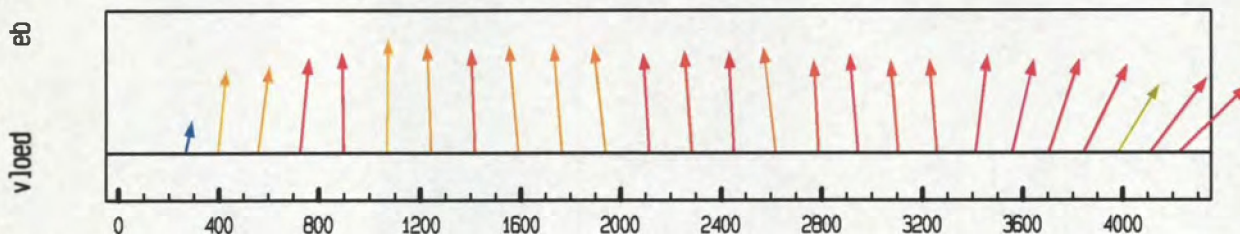
doorstroomoppervlak : 70941 m²  
 raaidebiet : 65755 m³/sec



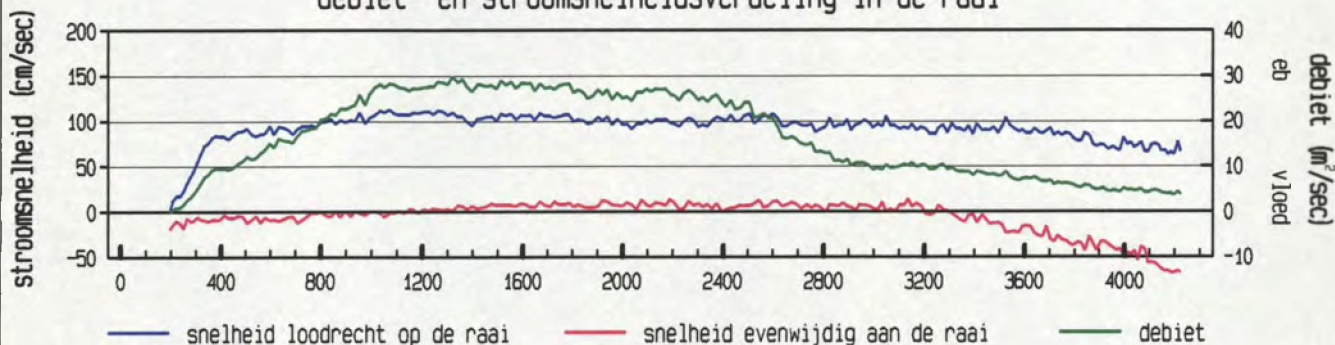
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



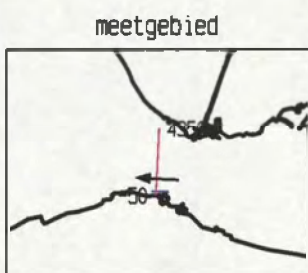
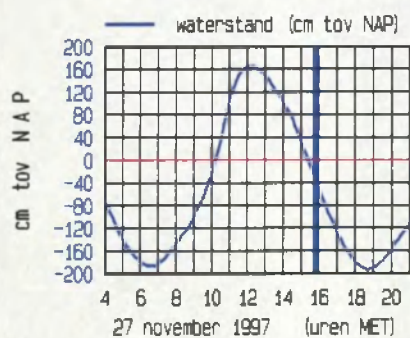
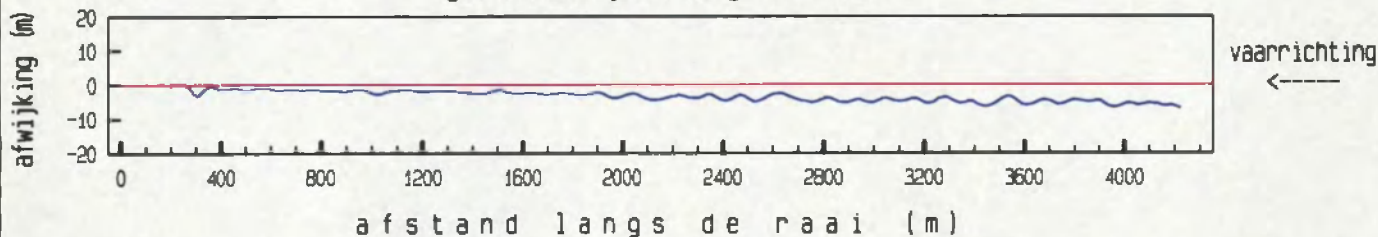
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



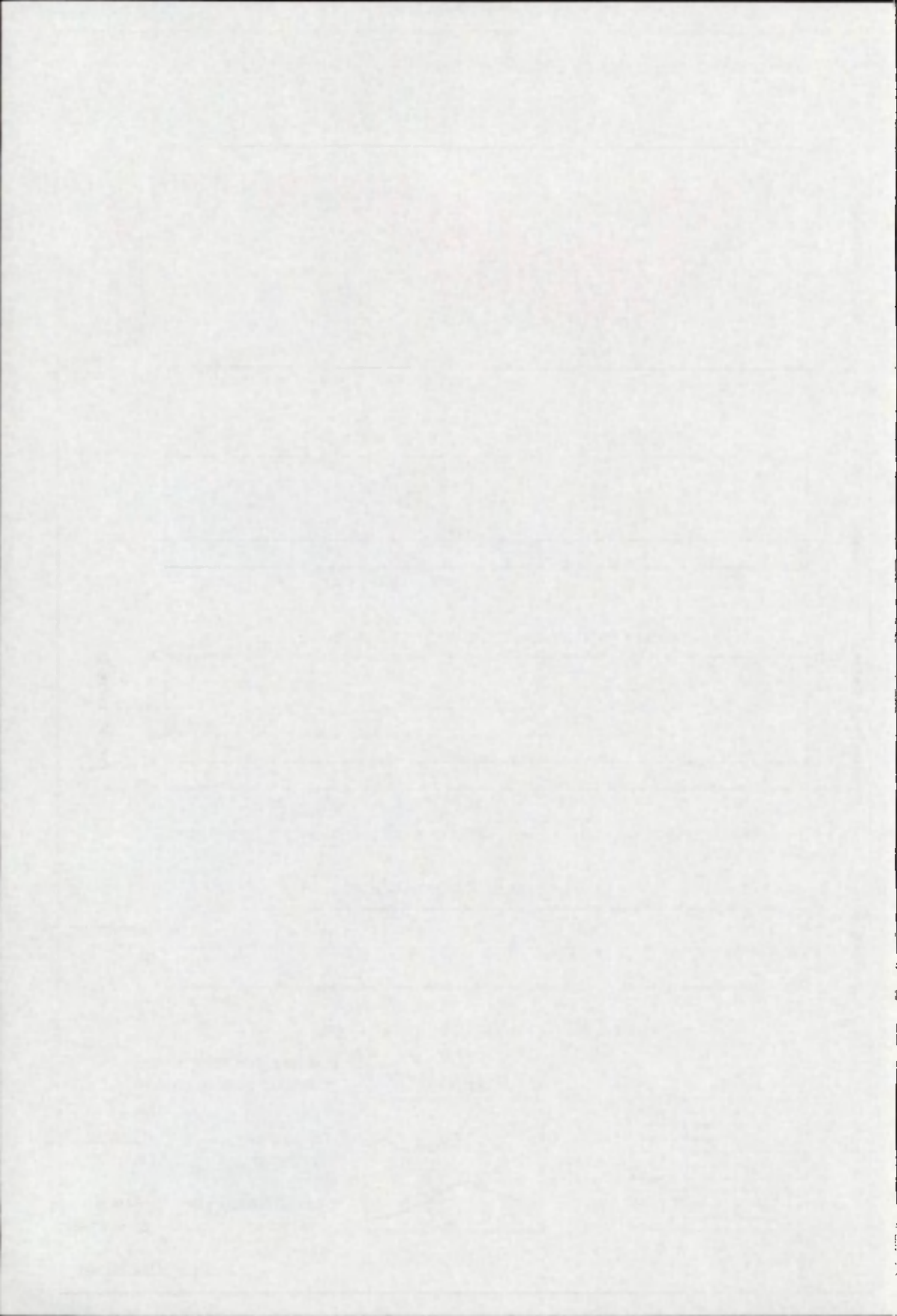
gevaren traject langs de raai



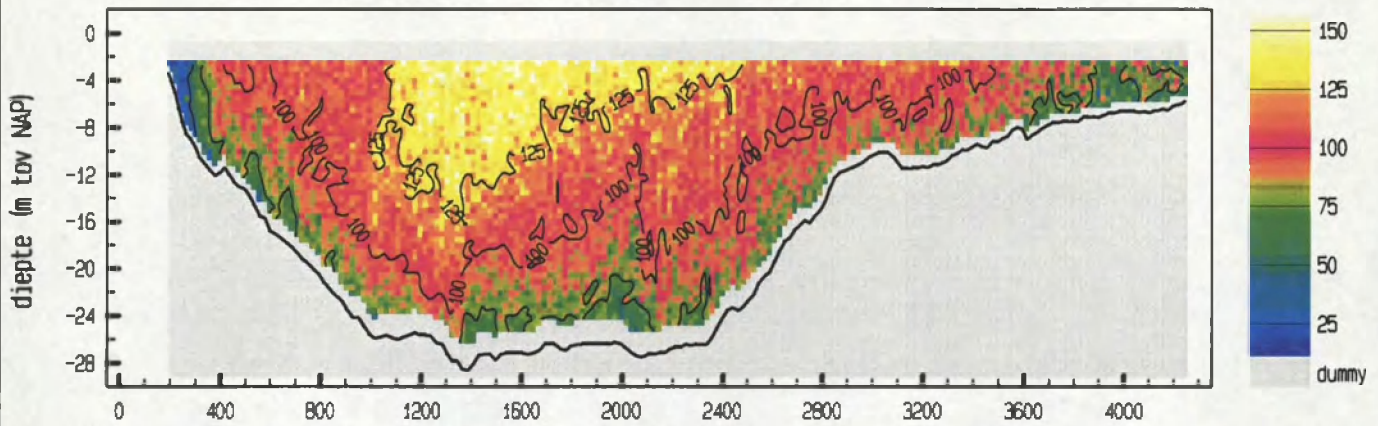
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1070 m  
 stroomsnelheid : 113 cm/sec  
 stroomrichting : 273 °

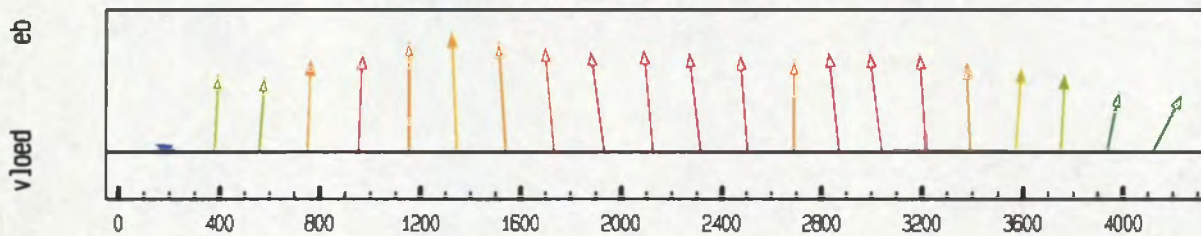
doorstroomoppervlak : 69448 m²  
 raaidebiet : 67786 m³/sec



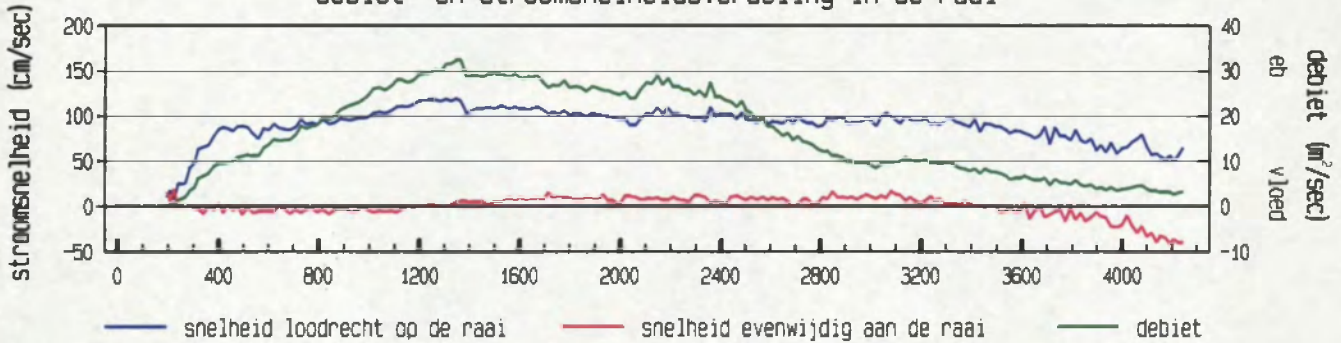
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



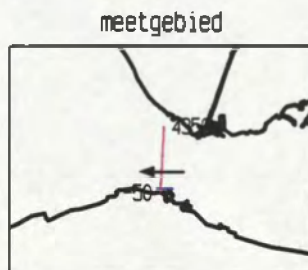
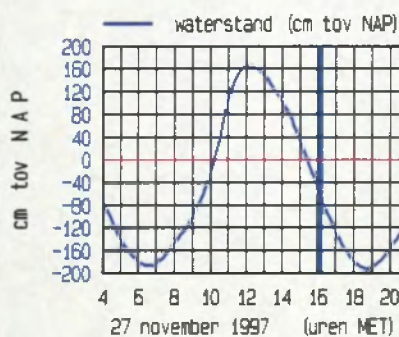
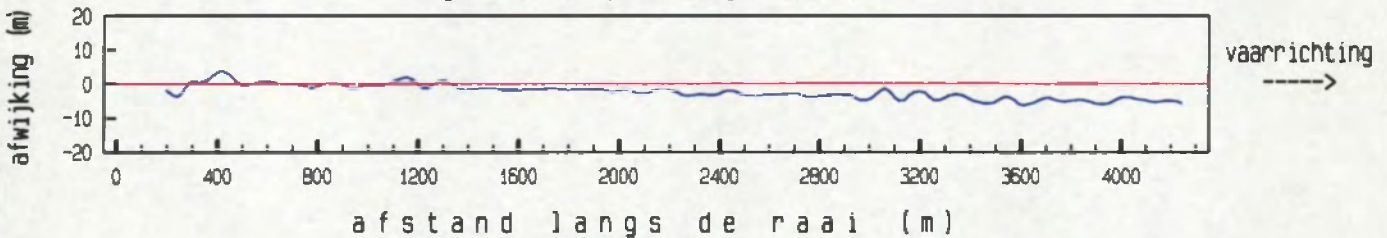
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai

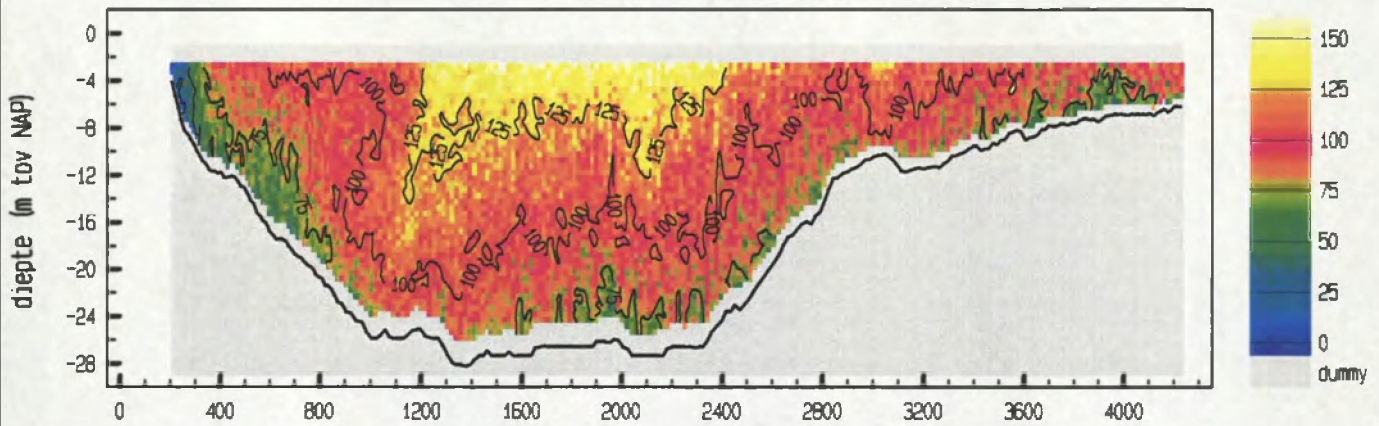


maximum gemiddelde stroom-  
 snelheid in de vertikaal

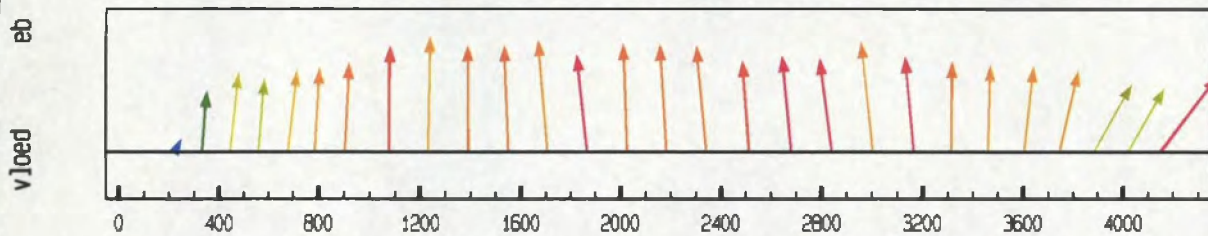
afstand uit nulpunt : 1345 m  
 stroomsnelheid : 119 cm/sec  
 stroomrichting : 270 °

doorstroomoppervlak : 68431 m²  
 raaidebiet : 66638 m³/sec

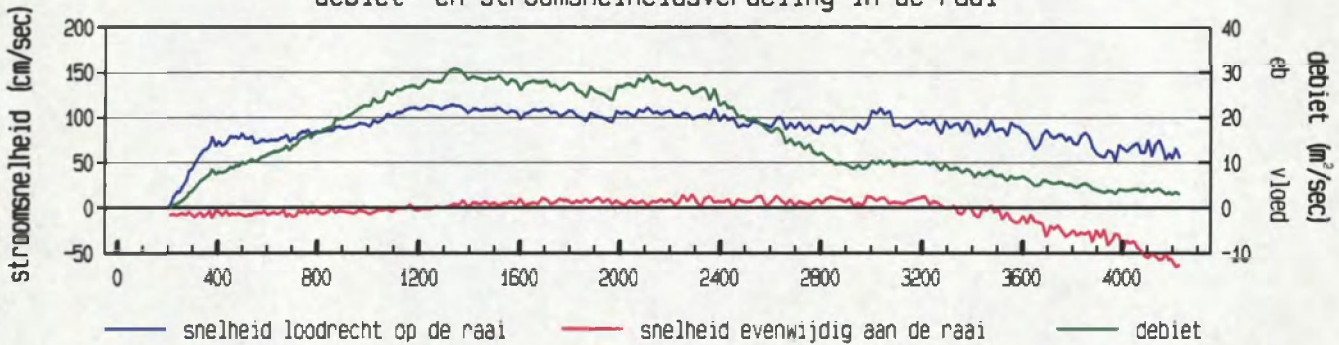
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



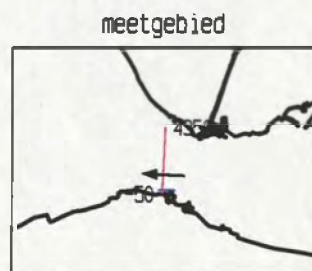
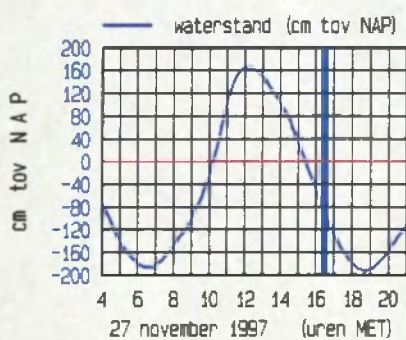
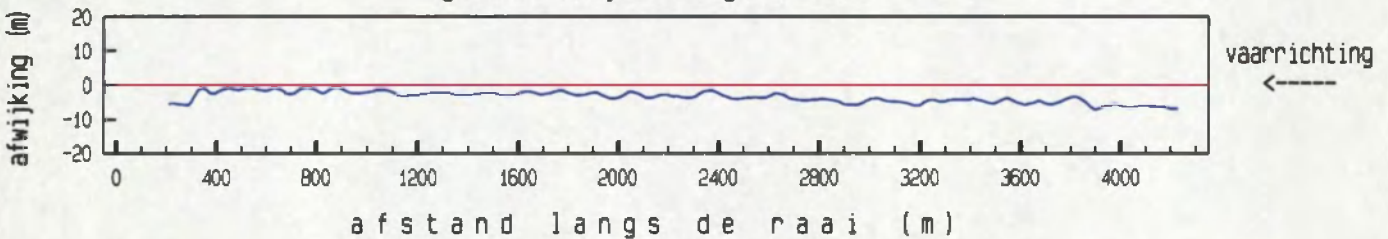
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



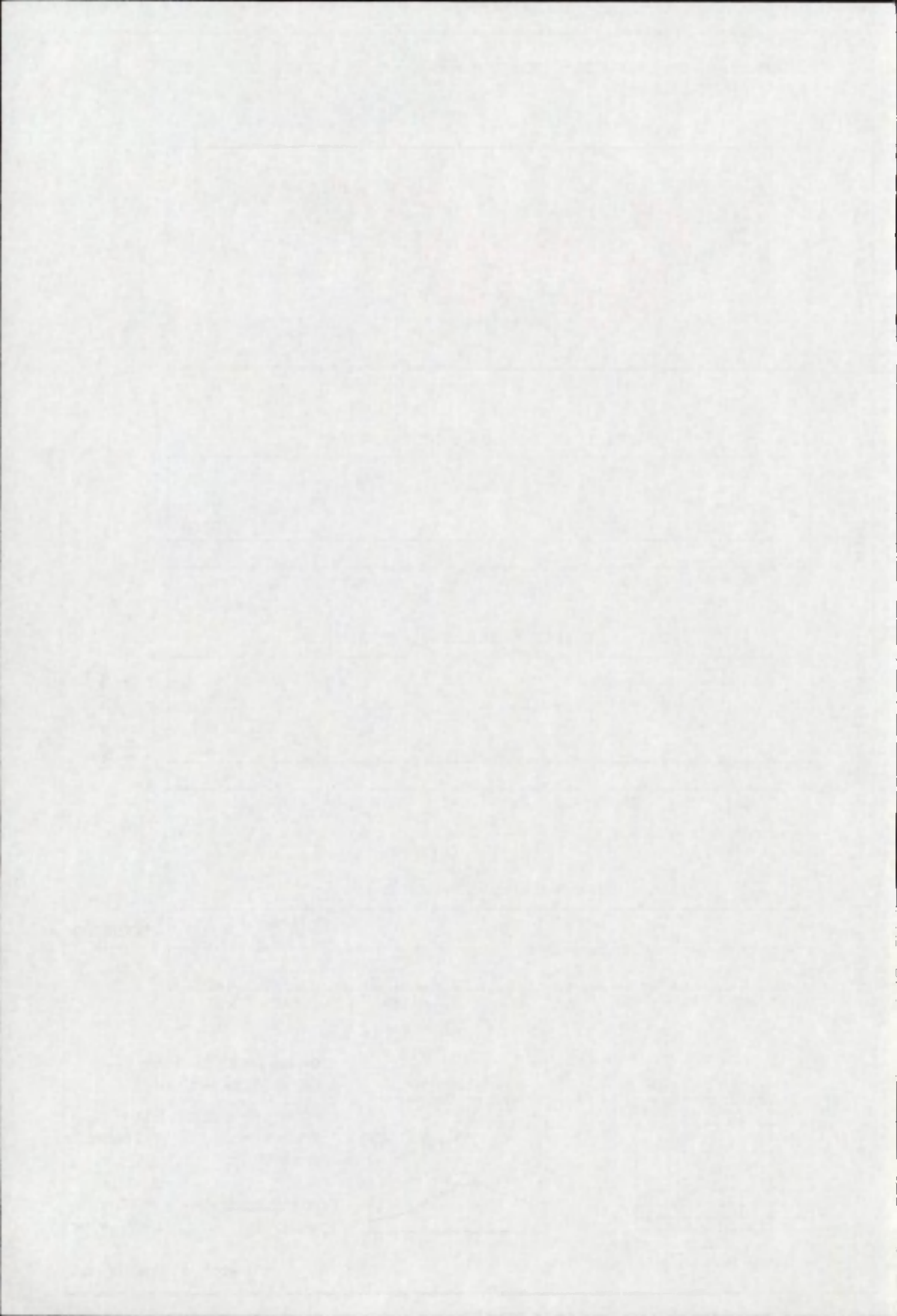
gevaren traject langs de raai



maximum gemiddelde stroom-  
 snelheid in de vertikaal

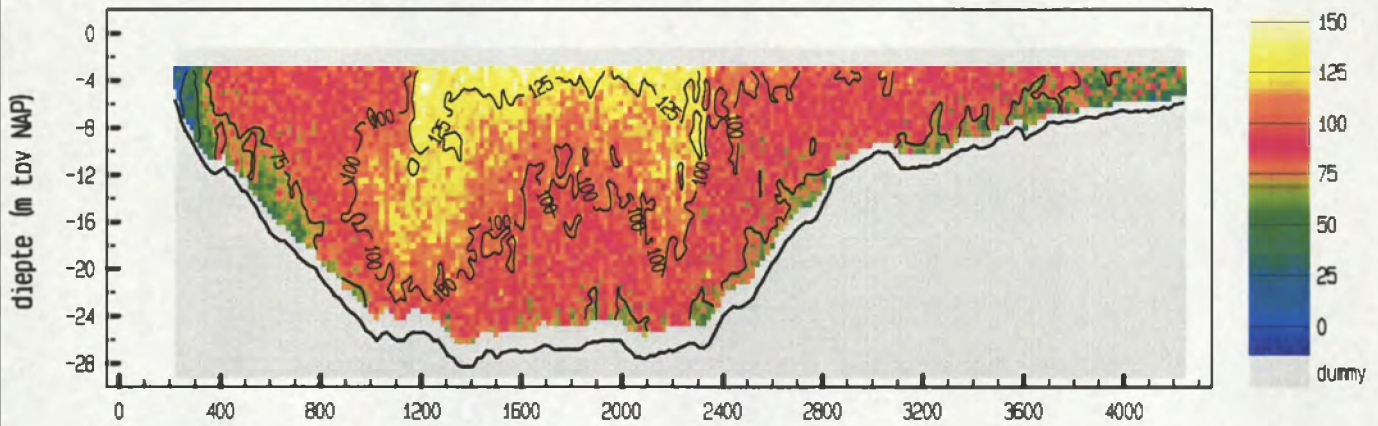
afstand uit nulpunt : 1232 m  
 stroomsnelheid : 113 cm/sec  
 stroomrichting : 274 °

doorstroomoppervlak : 67545 m<sup>2</sup>  
 raai debiet : 64166 m<sup>3</sup>/sec

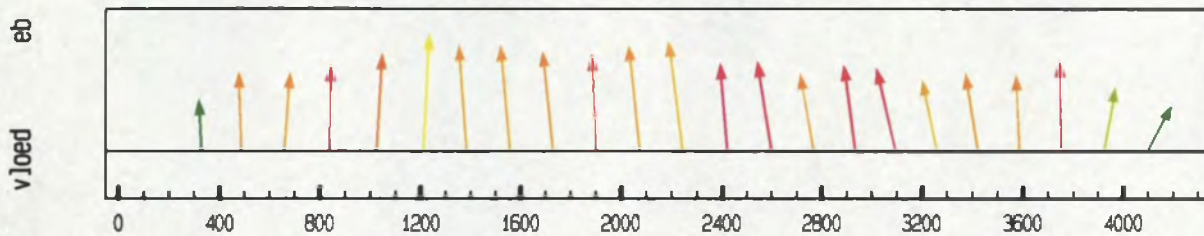




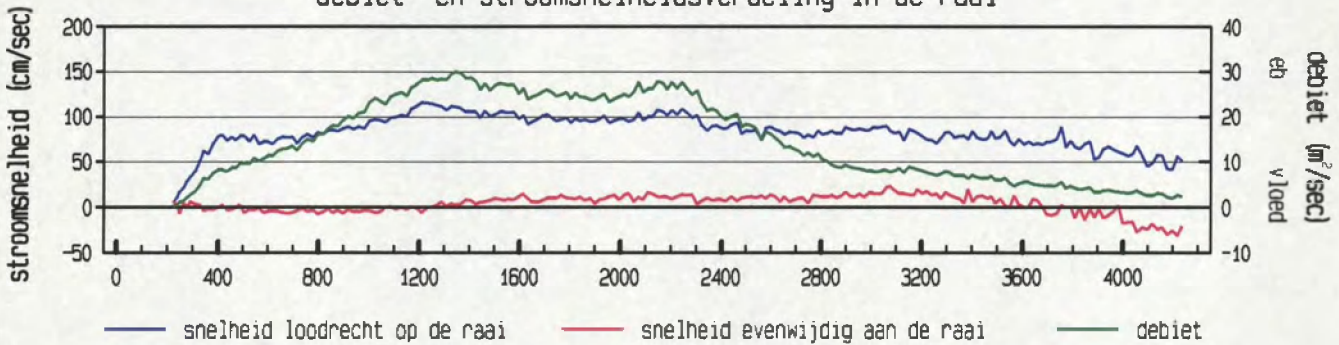
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



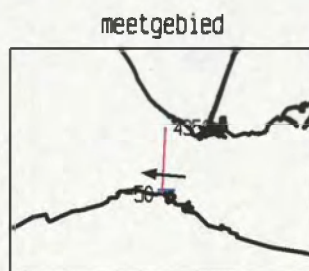
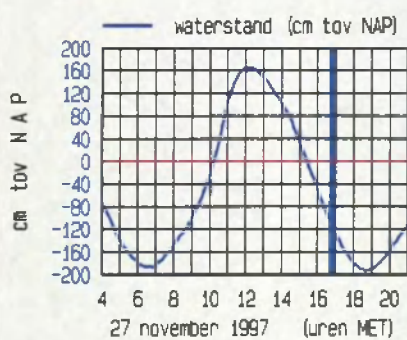
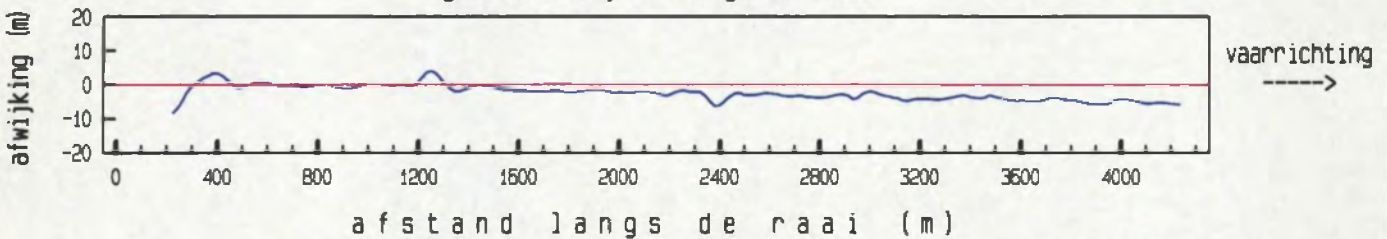
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



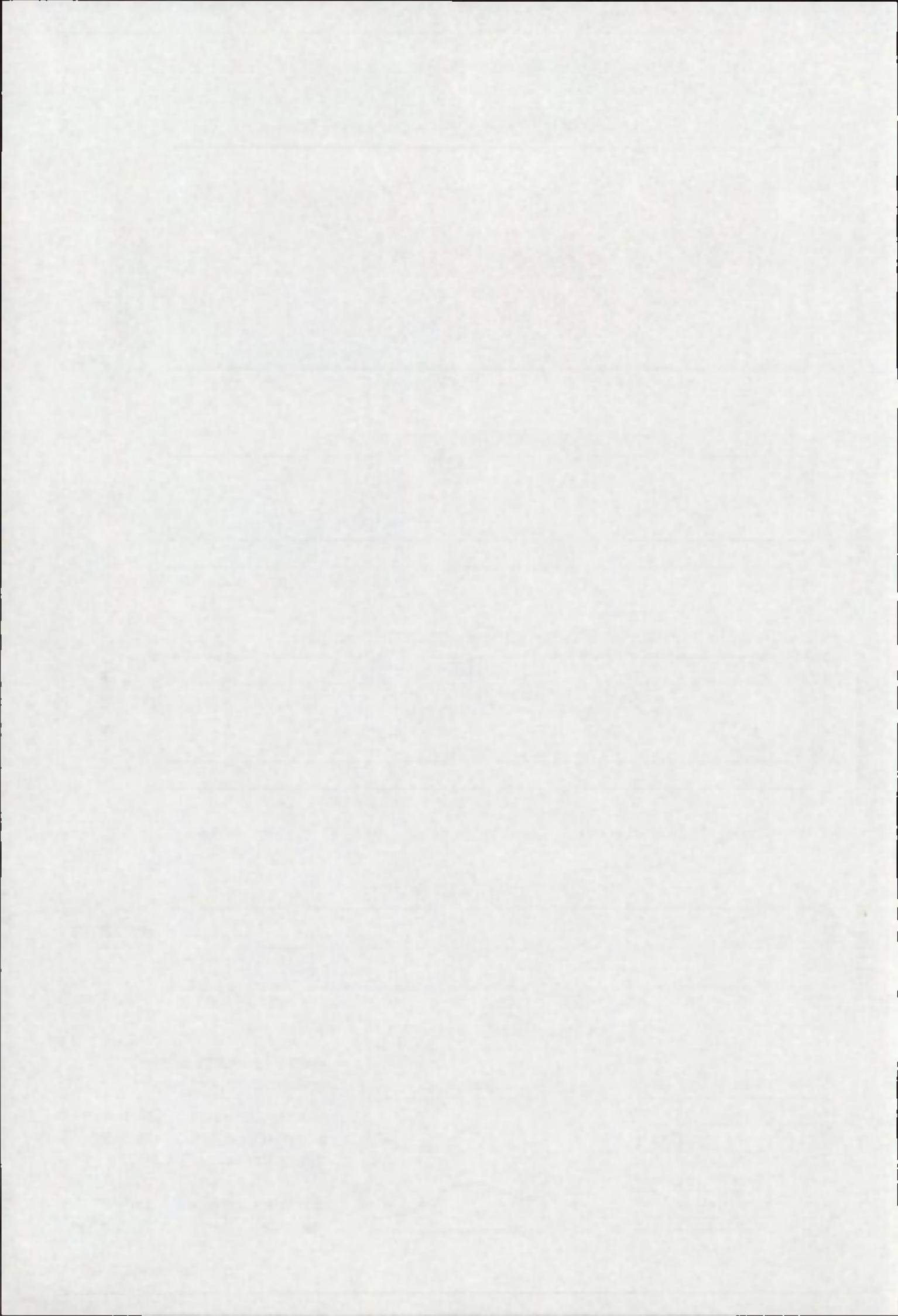
gevaaren traject langs de raai



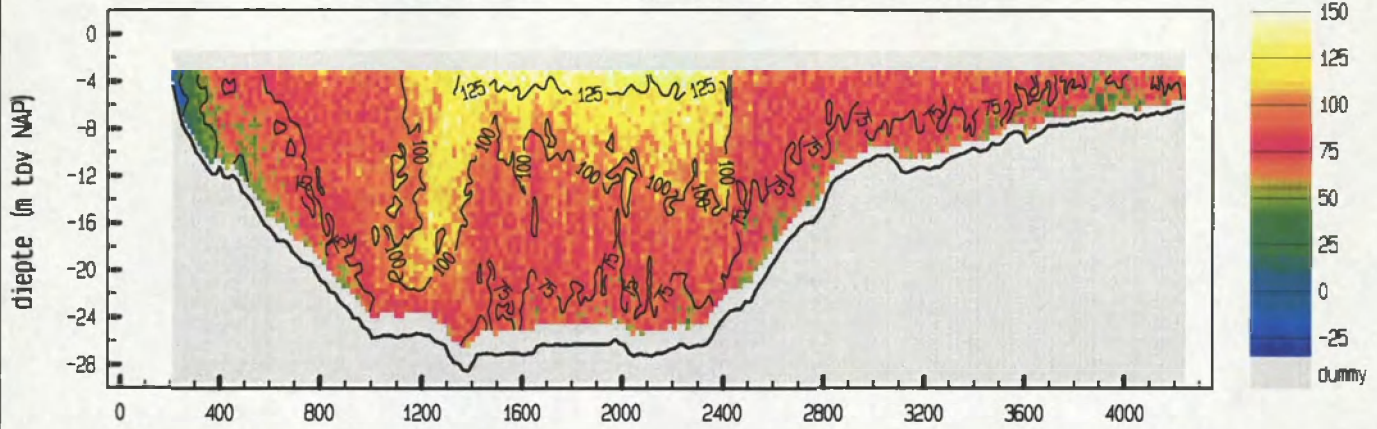
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1210 m  
 stroomsnelheid : 116 cm/sec  
 stroomrichting : 275 °

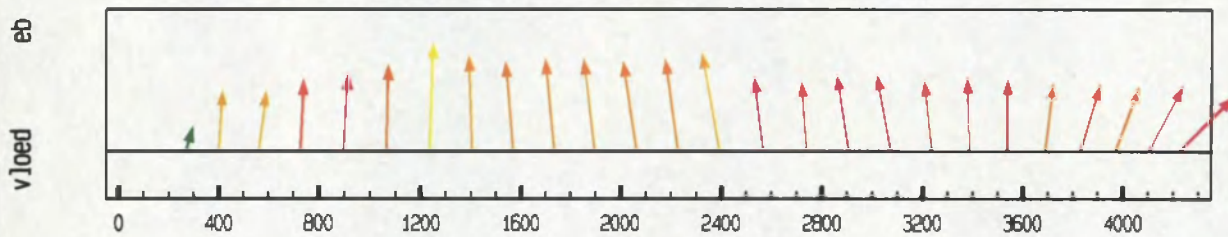
doorstroomoppervlak : 66400 m<sup>2</sup>  
 raaidebiet : 59910 m<sup>3</sup>/sec



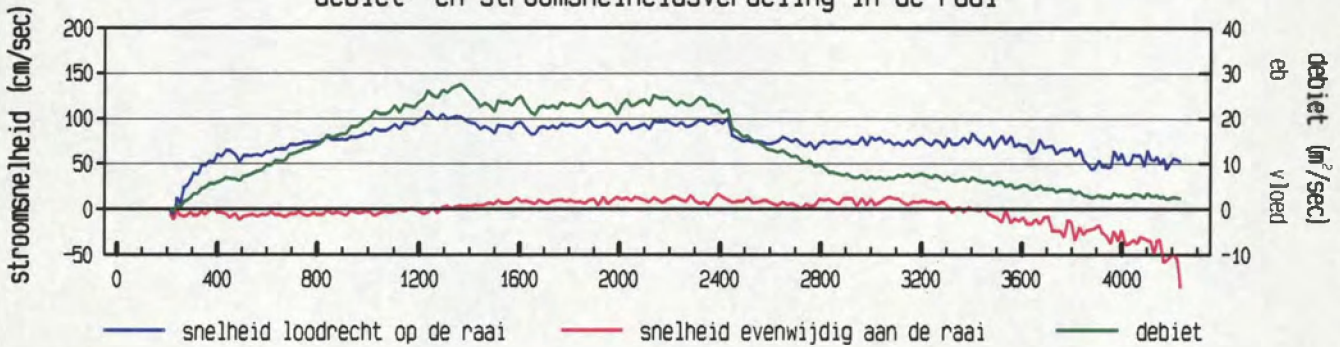
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



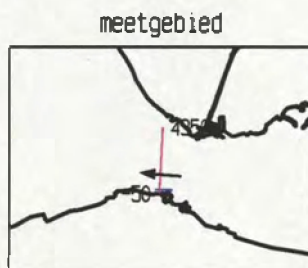
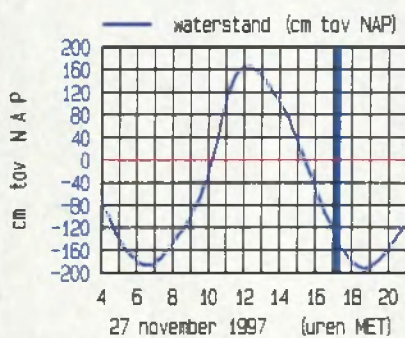
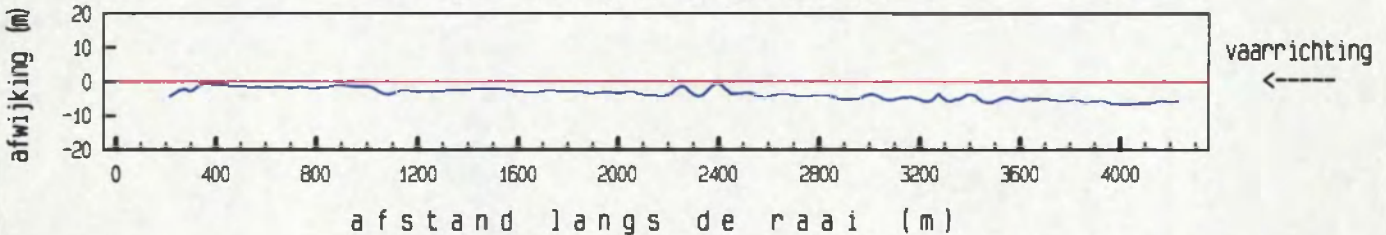
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



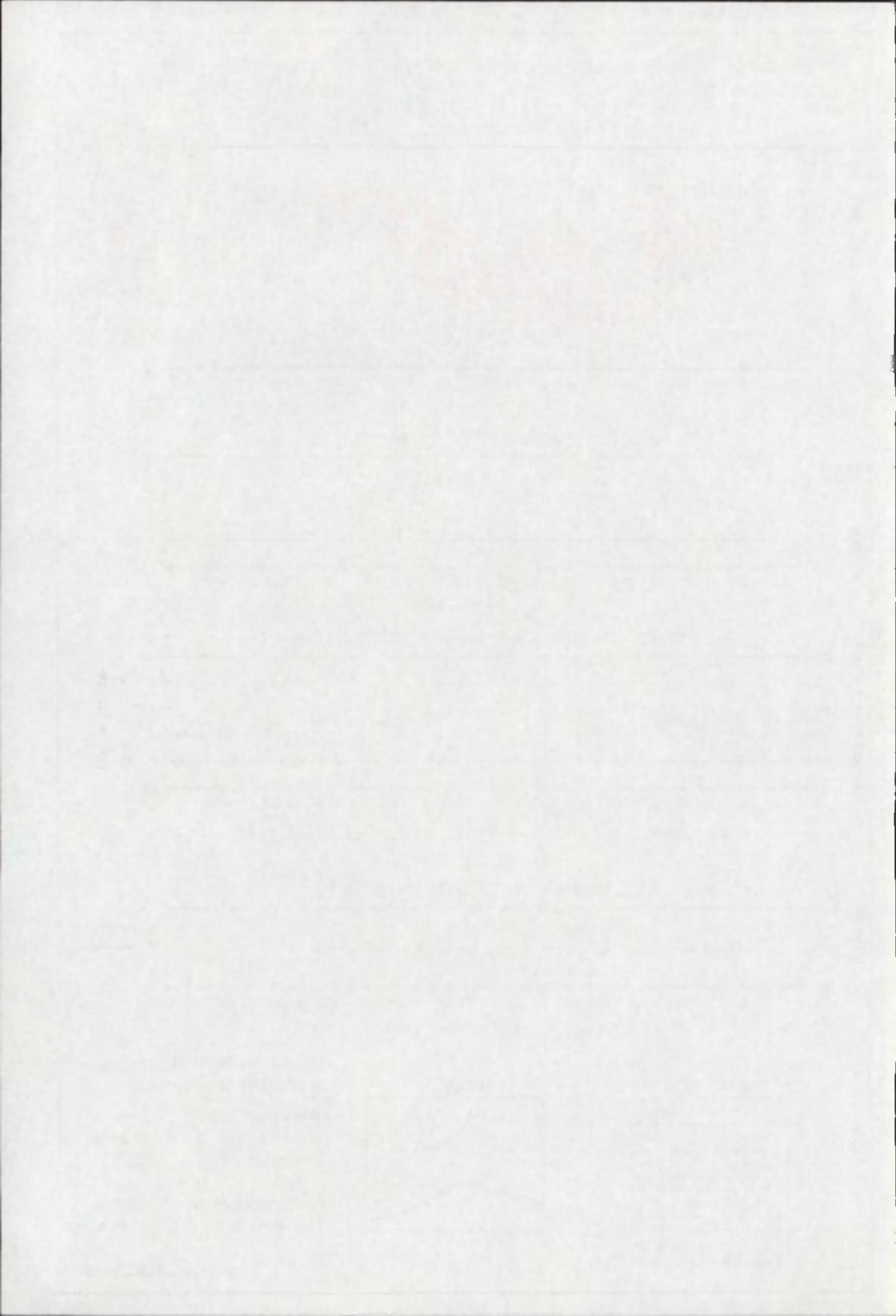
gevaren traject langs de raai



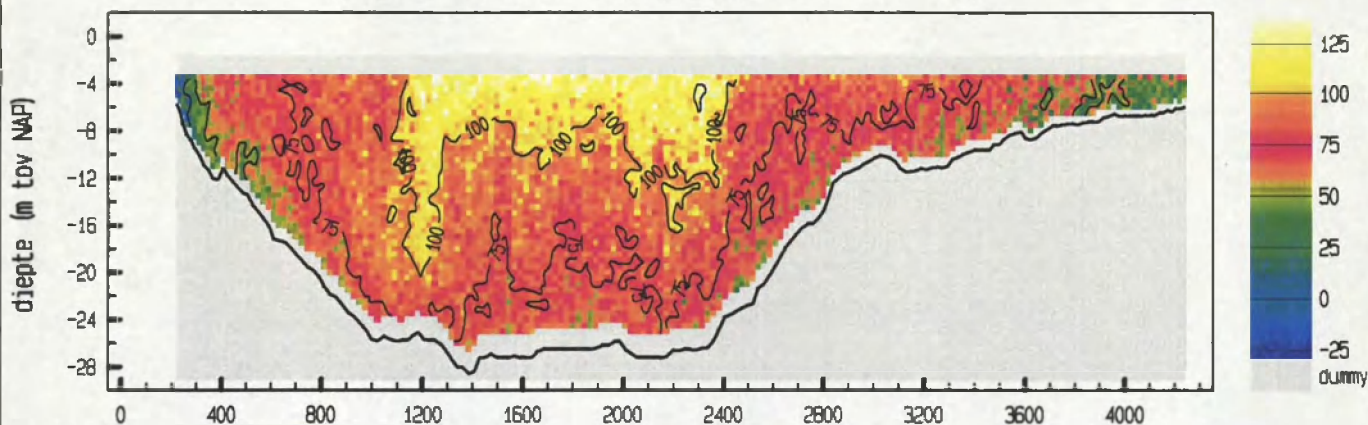
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1233 m  
 stroomsnelheid : 108 cm/sec  
 stroomrichting : 275 °

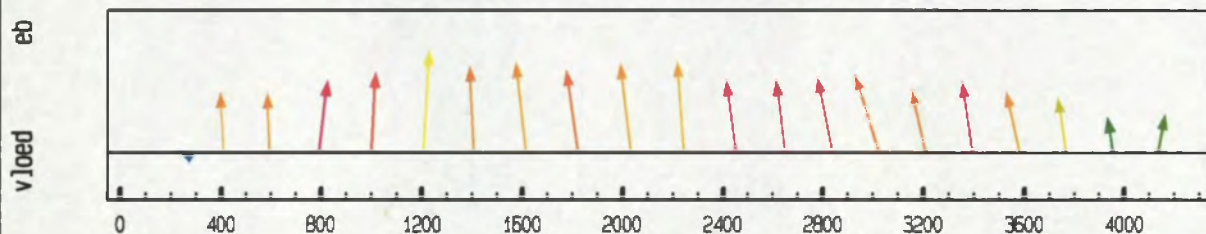
doorstroomoppervlak : 65297 m<sup>2</sup>  
 raaidebiet : 53958 m<sup>3</sup>/sec



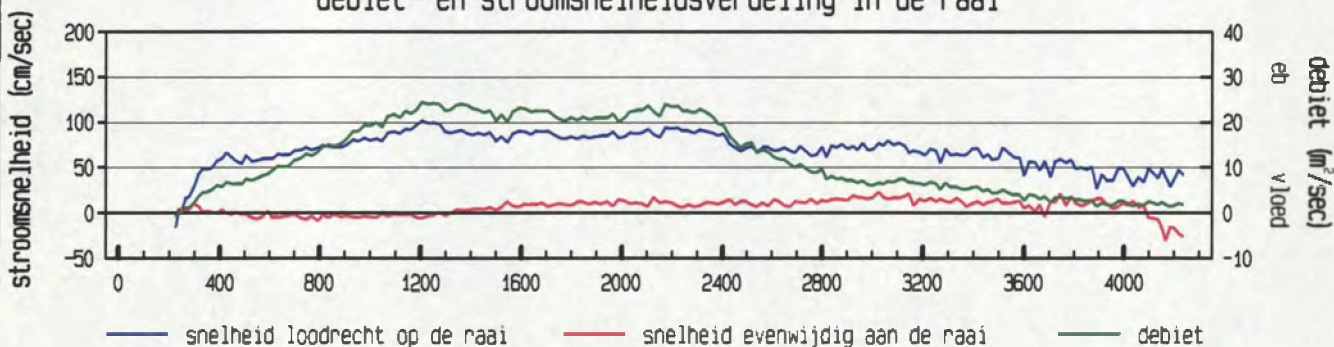
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



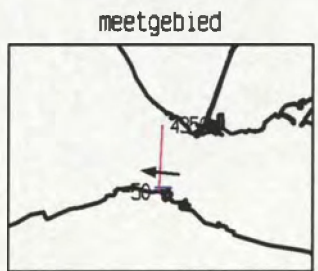
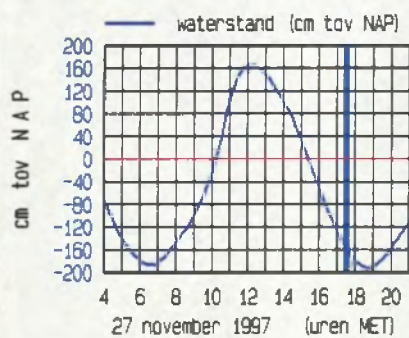
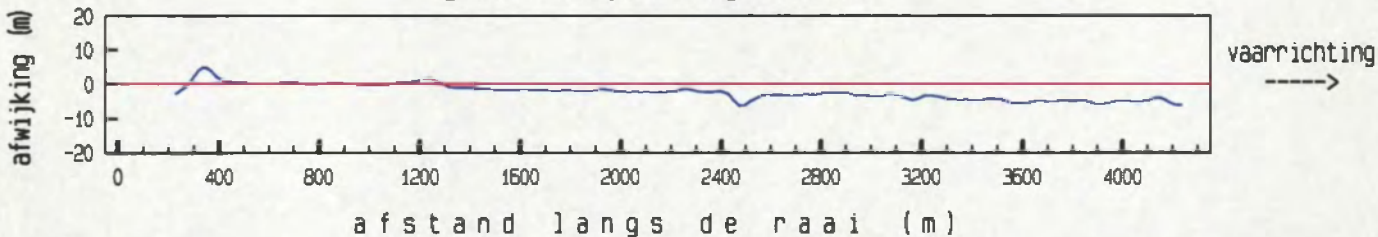
gemiddelde stroomsnelheid in de vertikaal



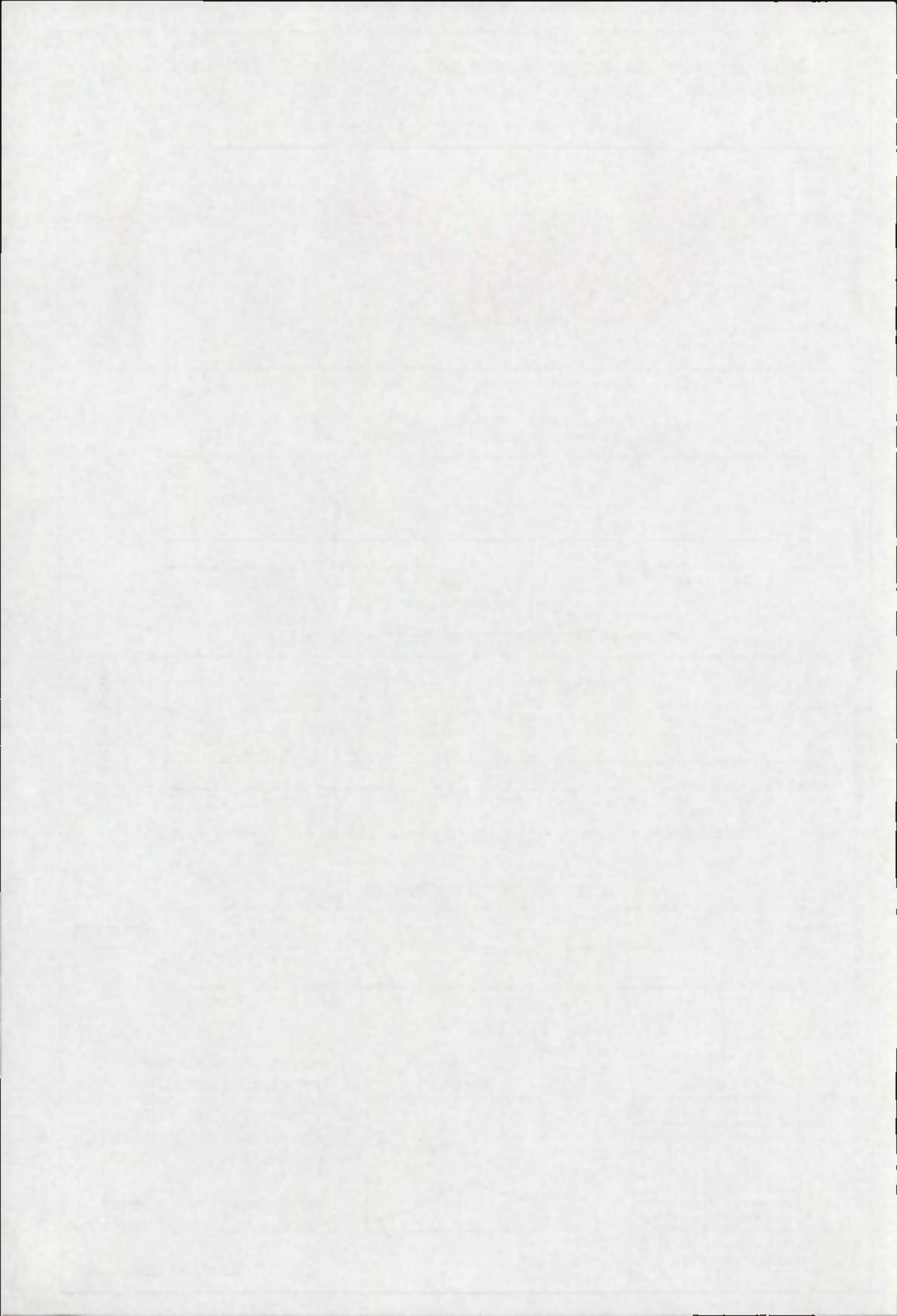
debiet- en stroomsnelheidsverdeling in de raai



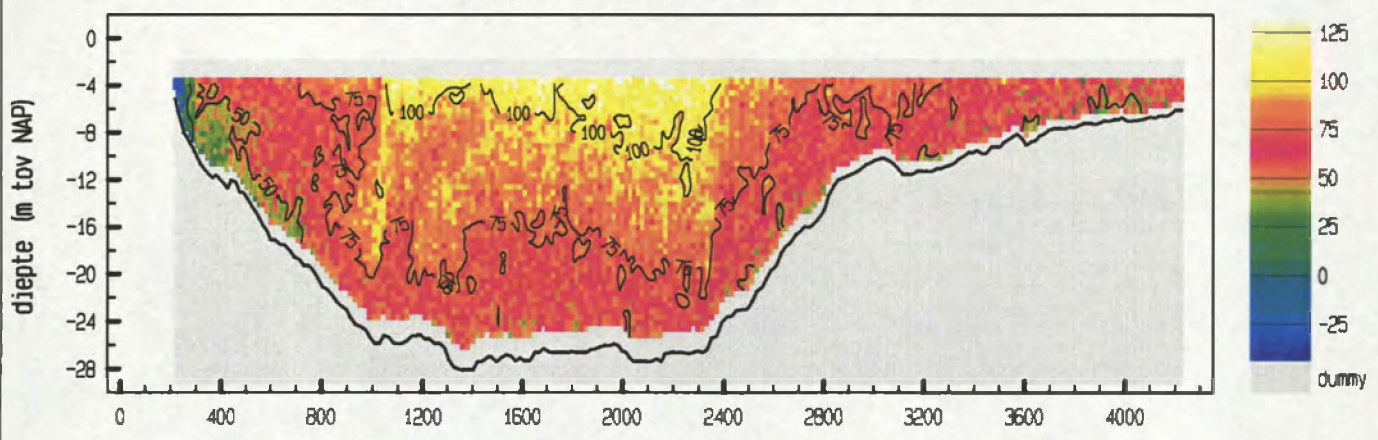
gevaaren traject langs de raai



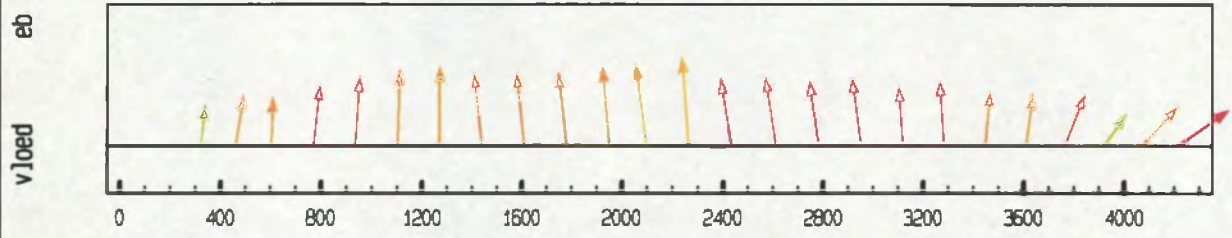
maximum gemiddelde stroom-  
 snelheid in de vertikaal  
 afstand uit nulpunt : 1204 m  
 stroomsnelheid : 102 cm/sec  
 stroomrichting : 276 °  
 doorstroomoppervlak : 64531 m<sup>2</sup>  
 raaidebiet : 50124 m<sup>3</sup>/sec



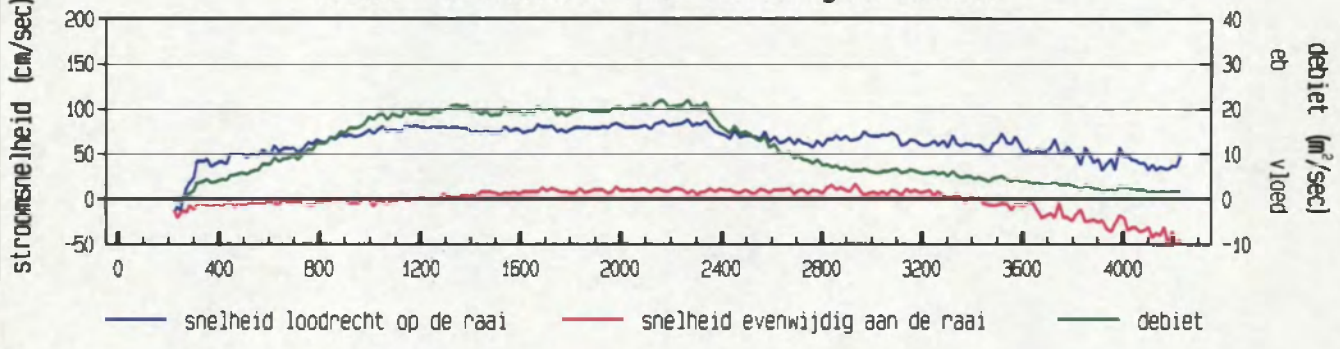
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



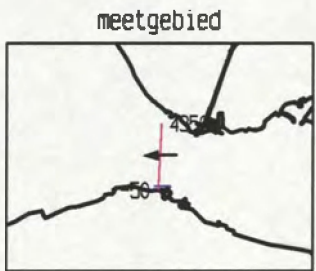
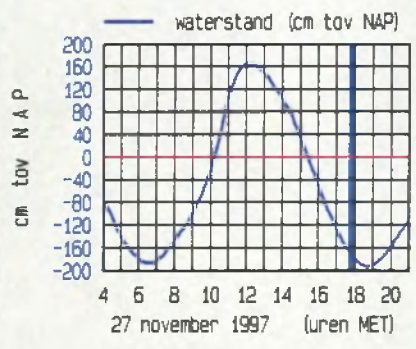
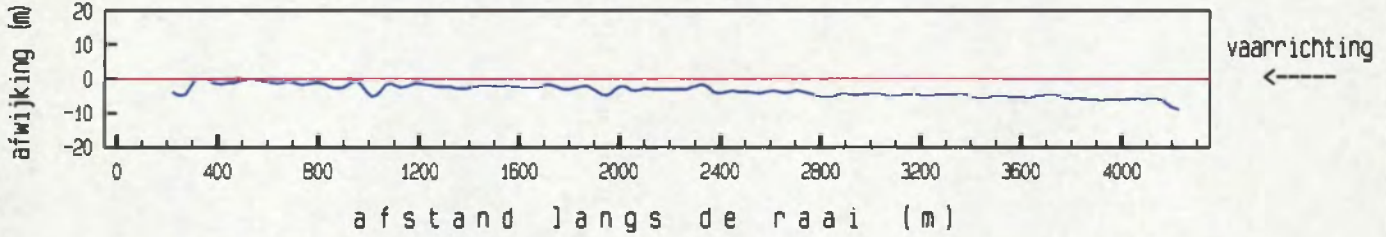
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai

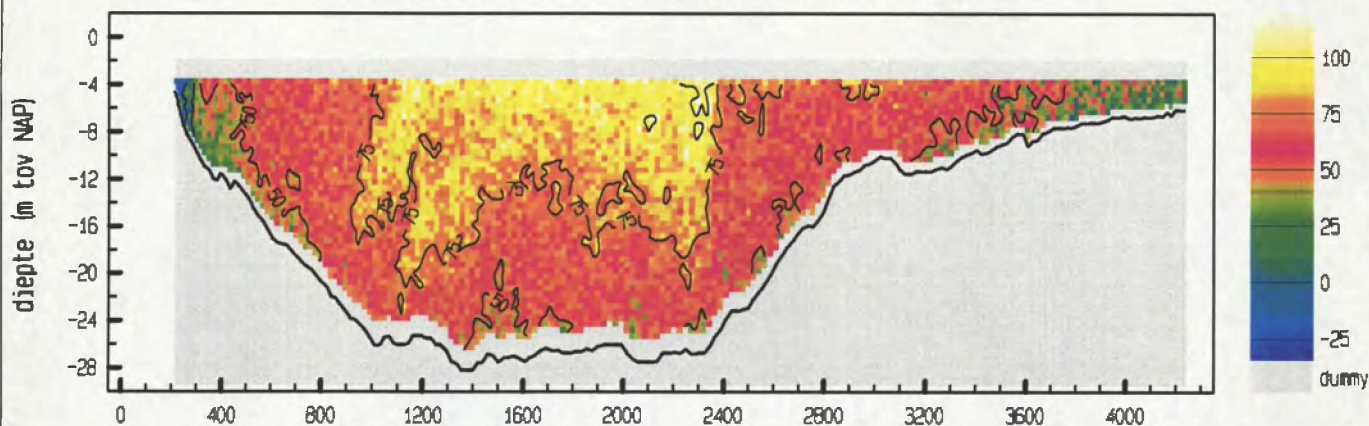


gevaren traject langs de raai

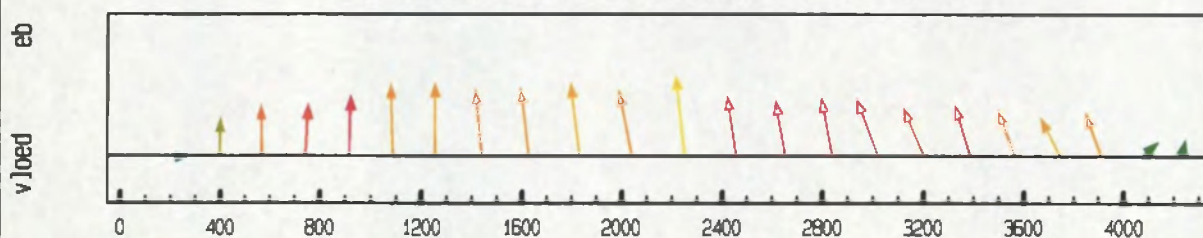


maximum gemiddelde stroom-  
 snelheid in de vertikaal  
 afstand uit nulpunt : 2264 m  
 stroomsnelheid : 89 cm/sec  
 stroomrichting : 269 °  
 doorstroomoppervlak : 64003 m²  
 raaidebiet : 45019 m³/sec

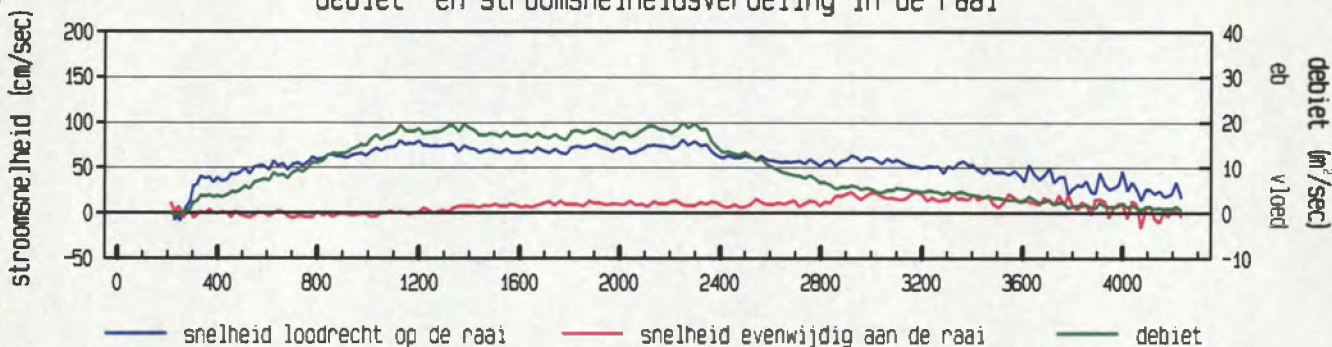
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



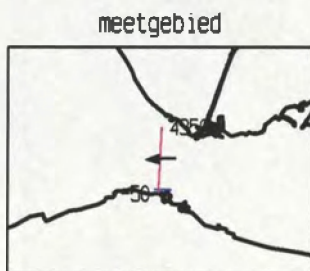
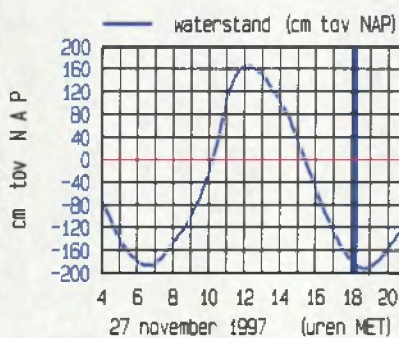
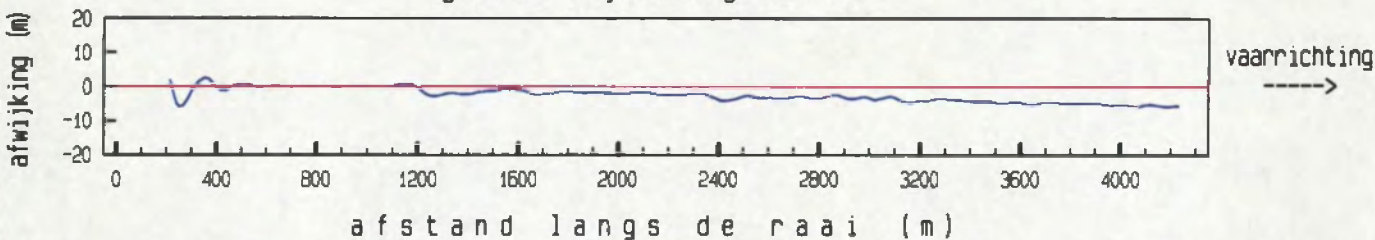
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



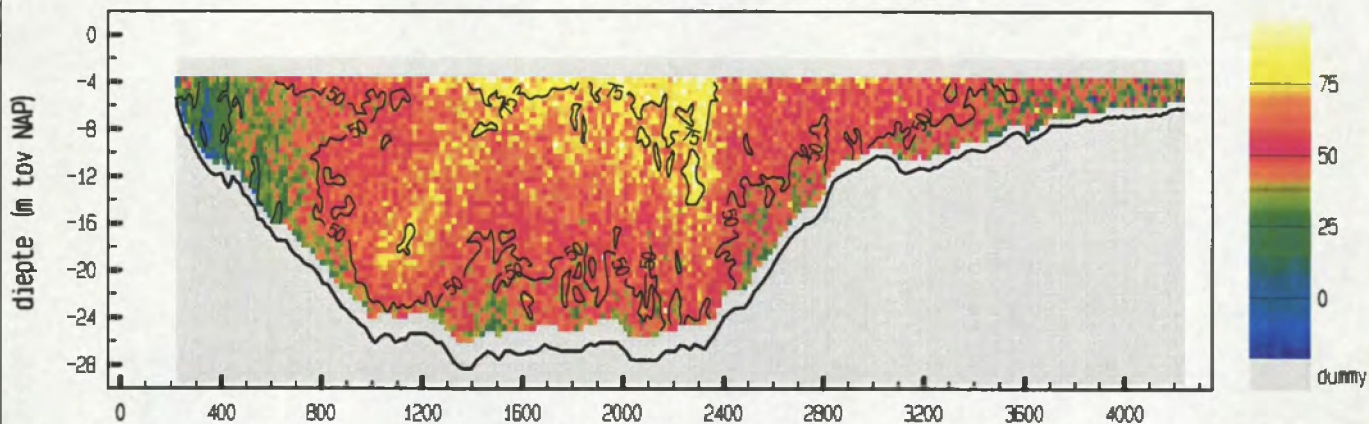
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2251 m  
 stroomsnelheid : 82 cm/sec  
 stroomrichting : 266 °

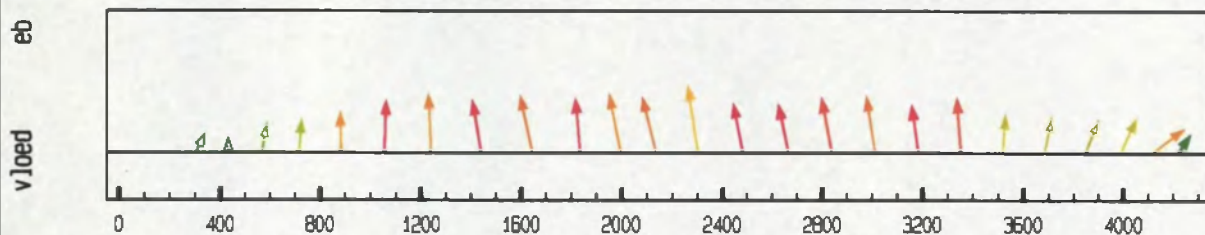
doorstroomoppervlak : 63609 m<sup>2</sup>  
 raai debiet : 39789 m<sup>3</sup>/sec



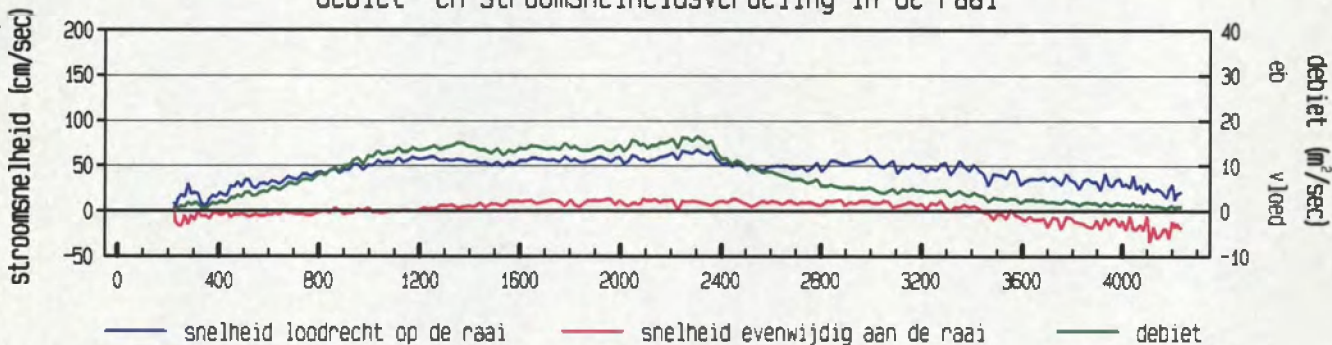
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



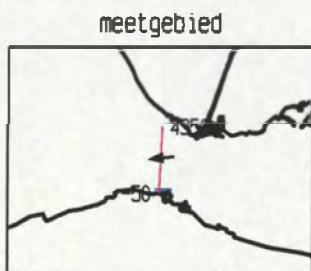
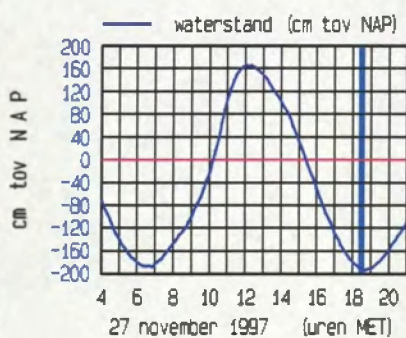
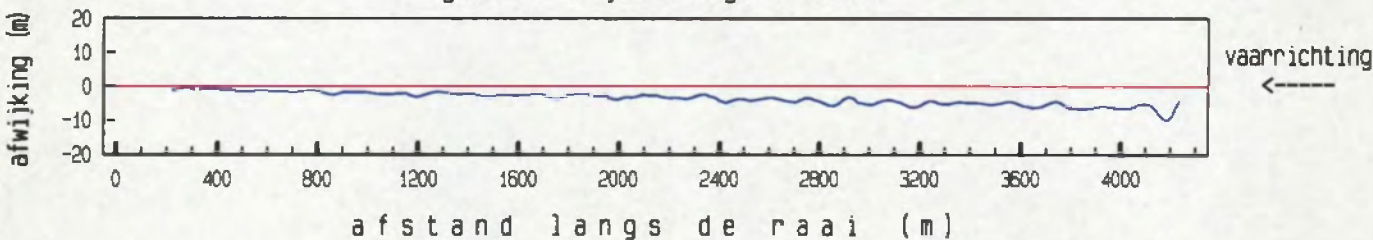
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



maximum gemiddelde stroom-  
 snelheid in de vertikaal

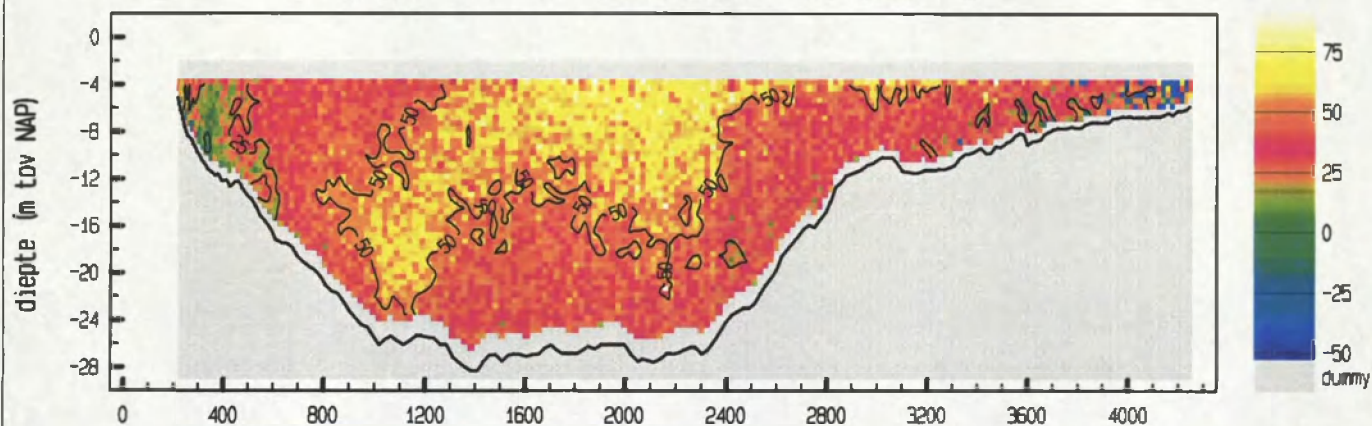
afstand uit nulpunt : 2303 m  
 stroomsnelheid : 69 cm/sec  
 stroomrichting : 264 °

doorstroomoppervlak : 63342 m<sup>2</sup>  
 raaidebiet : 31652 m<sup>3</sup>/sec

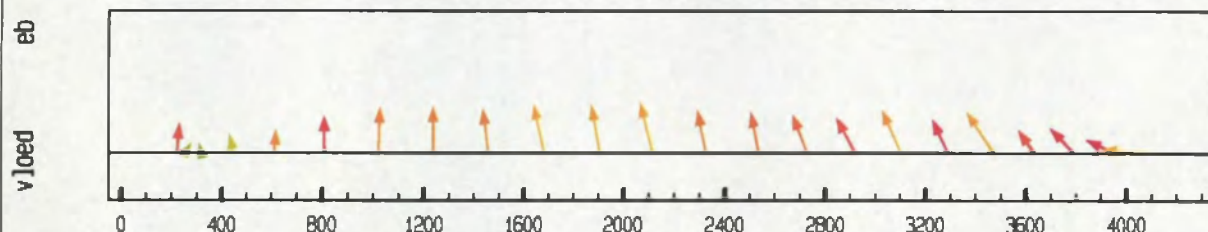
Debietraai 11 deelraai A dd 27 november 1997  
 adcpfile : 11da038a.val

tijd : 1838 - 1855

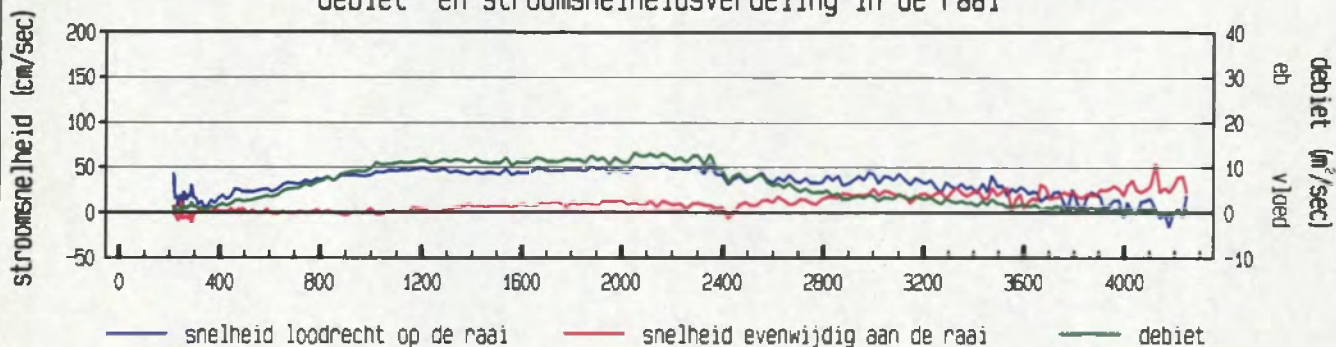
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



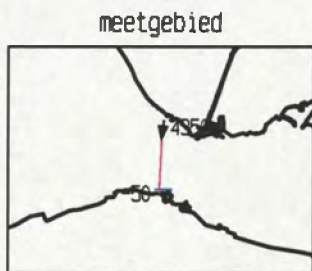
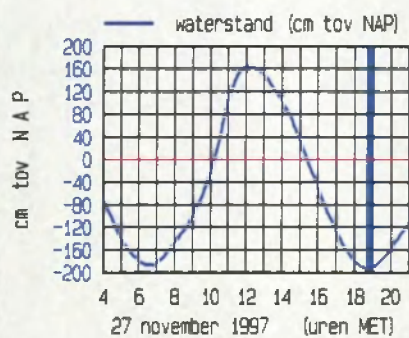
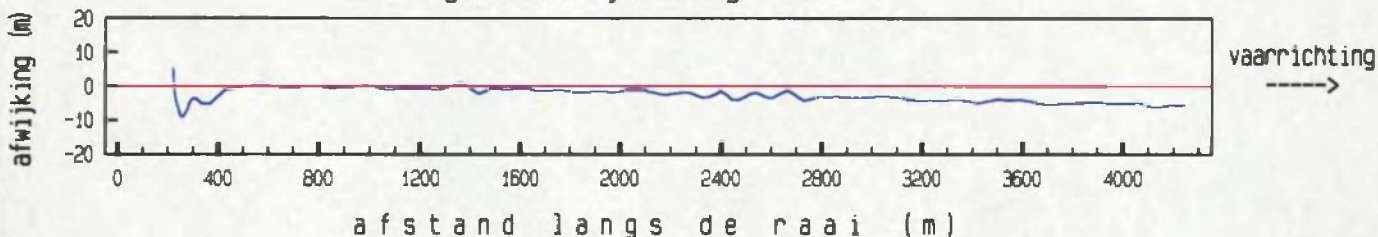
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



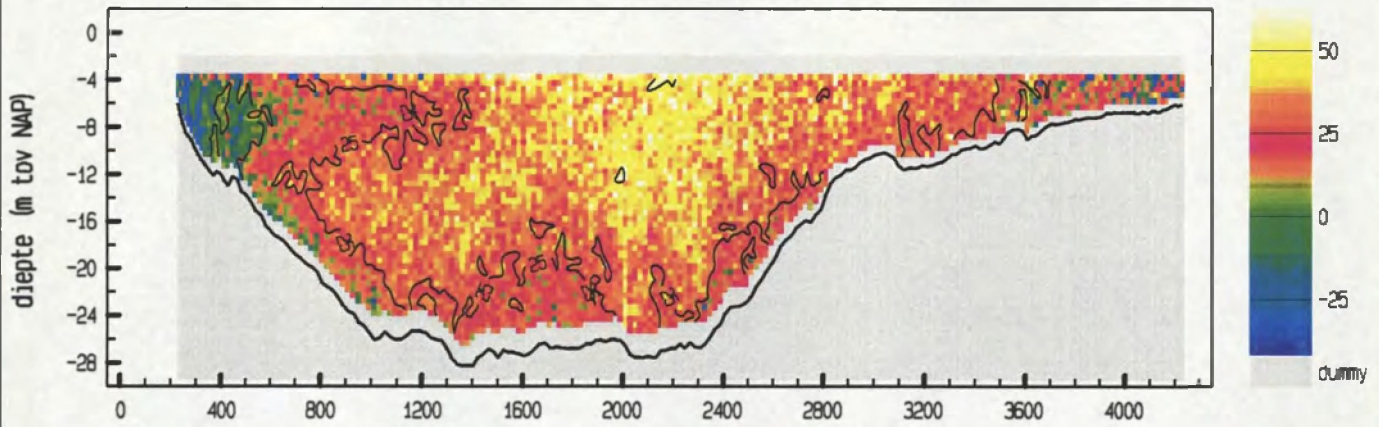
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4122 m  
 stroomsnelheid : 55 cm/sec  
 stroomrichting : 187 °

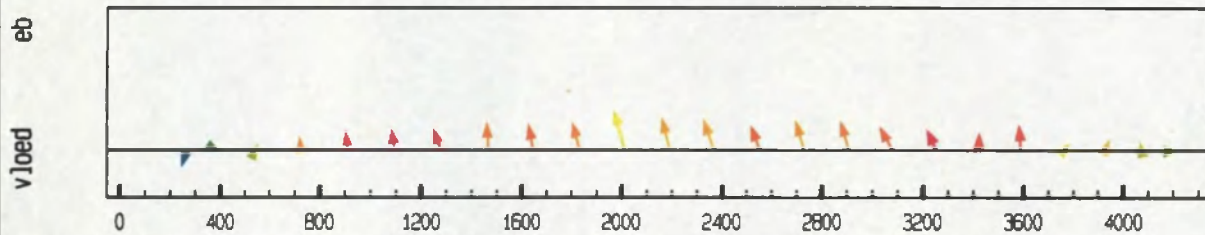
doorstroomoppervlak : 63292 m<sup>2</sup>  
 raaidebiet : 24957 m<sup>3</sup>/sec

adcpfile : 11da038a.val

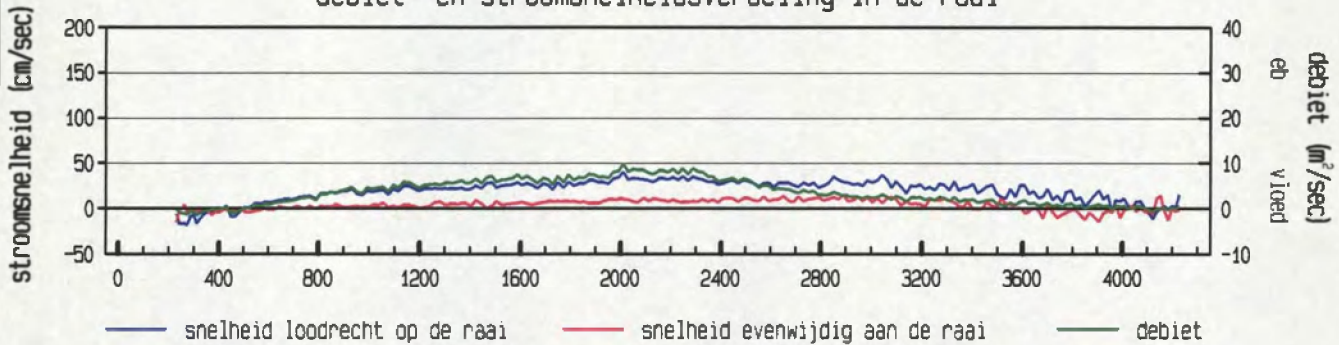
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



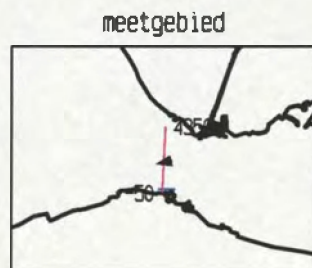
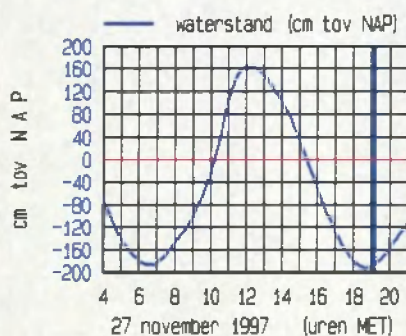
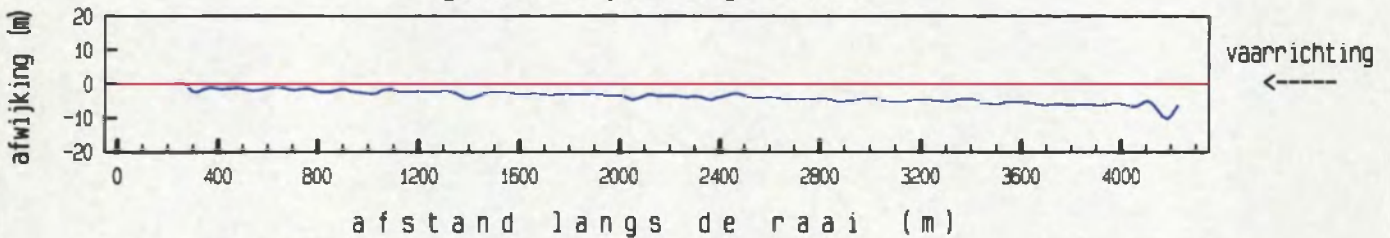
gemiddelde stroomsnelheid in de vertikaal



debiet- en stroomsnelheidsverdeling in de raai



gevaren traject langs de raai



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2012 m  
 stroomsnelheid : 42 cm/sec  
 stroomrichting : 257 °

doorstroomoppervlak : 63475 m<sup>2</sup>  
 raaidebiet : 14581 m<sup>3</sup>/sec

## 9. Ontbonden gegevens

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to address the needs of older people, and the need to ensure that they are able to live independently in their own homes for as long as possible. This has led to a number of initiatives, including the development of community care services, the establishment of care homes, and the provision of home care services.

One of the key challenges facing the health care system is how to meet the needs of older people in a way that is cost-effective and sustainable. This requires a focus on prevention and early intervention, as well as on the development of services that are tailored to the needs of older people.

The aim of this paper is to explore the needs of older people in the UK, and to discuss the implications for the health care system. We will first consider the demographic changes that are driving the need for health care services for older people. We will then discuss the current state of health care services for older people, and the challenges that are facing the system. Finally, we will discuss some of the initiatives that are being implemented to address these challenges.

The demographic changes that are driving the need for health care services for older people are the result of a number of factors, including the increase in life expectancy, the increase in the number of people who are aged 65 and over, and the increase in the number of people who are aged 75 and over.

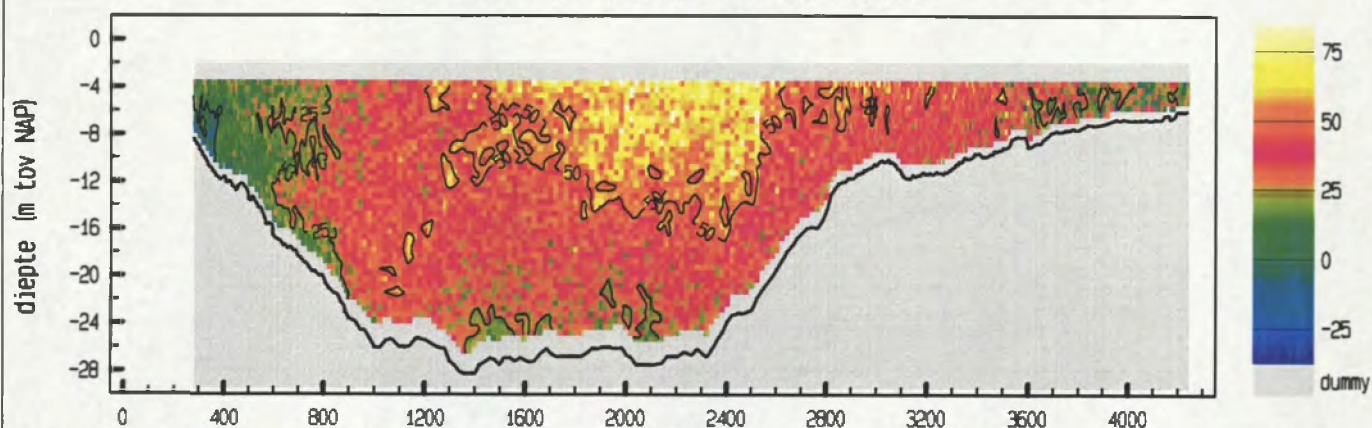
The increase in life expectancy is a result of a number of factors, including improvements in medical care, improvements in nutrition, and improvements in living conditions. The increase in the number of people who are aged 65 and over is a result of the increase in life expectancy, and the increase in the number of people who are aged 75 and over is a result of the increase in life expectancy and the increase in the number of people who are aged 65 and over.

The current state of health care services for older people is characterized by a number of challenges, including the need to address the needs of older people in a way that is cost-effective and sustainable, the need to ensure that older people are able to live independently in their own homes for as long as possible, and the need to develop services that are tailored to the needs of older people.

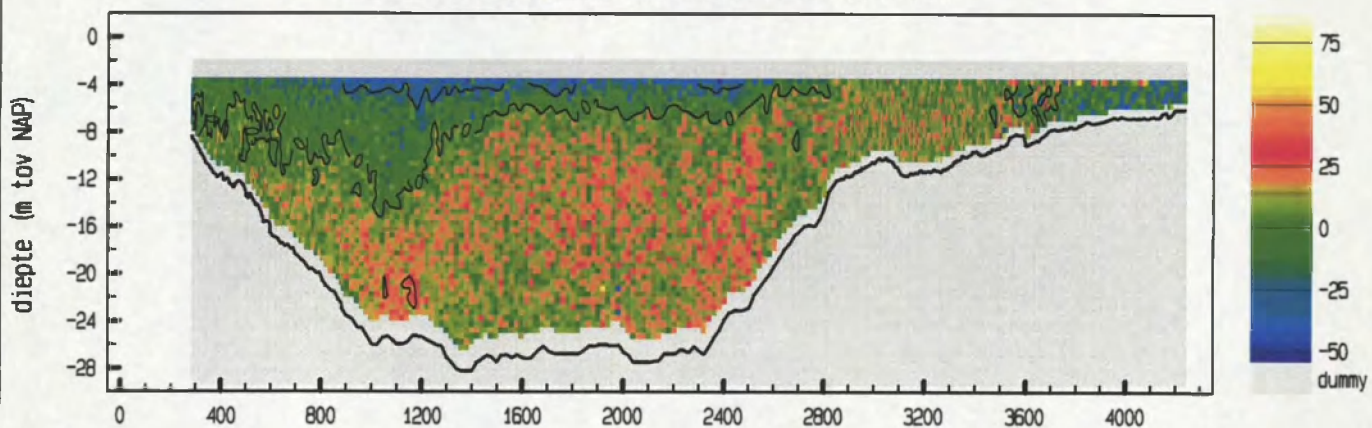
Some of the initiatives that are being implemented to address these challenges include the development of community care services, the establishment of care homes, and the provision of home care services. These initiatives are aimed at ensuring that older people are able to live independently in their own homes for as long as possible, and that they are able to receive the care and support that they need.

In conclusion, the needs of older people in the UK are a complex and challenging issue. It is essential that the health care system is able to meet these needs in a way that is cost-effective and sustainable, and that it is able to ensure that older people are able to live independently in their own homes for as long as possible.

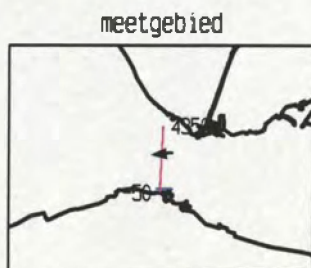
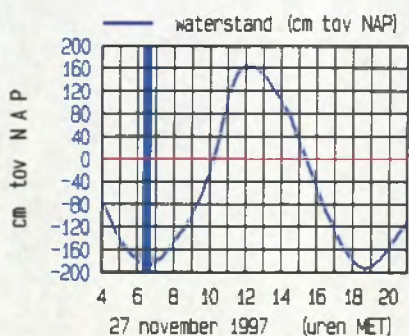
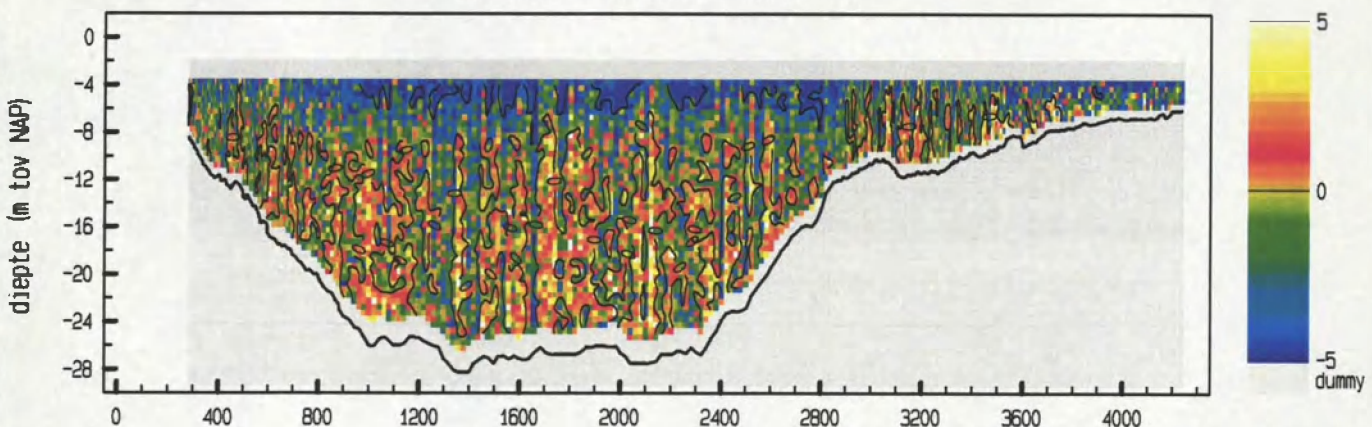
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

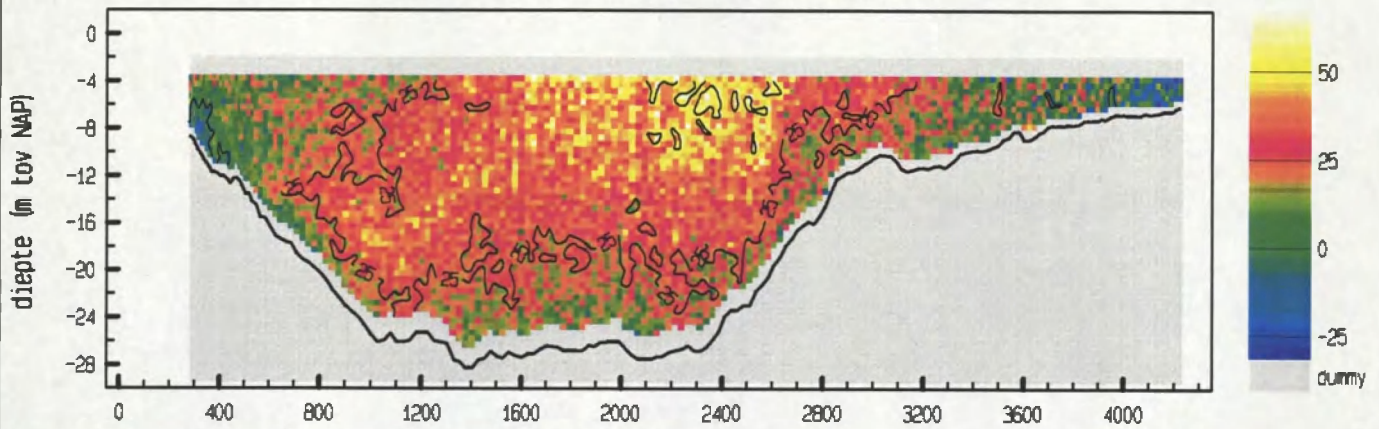
afstand uit nulpunt : 2522 m  
 stroomsnelheid : 57 cm/sec  
 stroomrichting : 264 °

doorstroomoppervlak : 63114 m<sup>2</sup>  
 raaidebiet : 24000 m<sup>3</sup>/sec

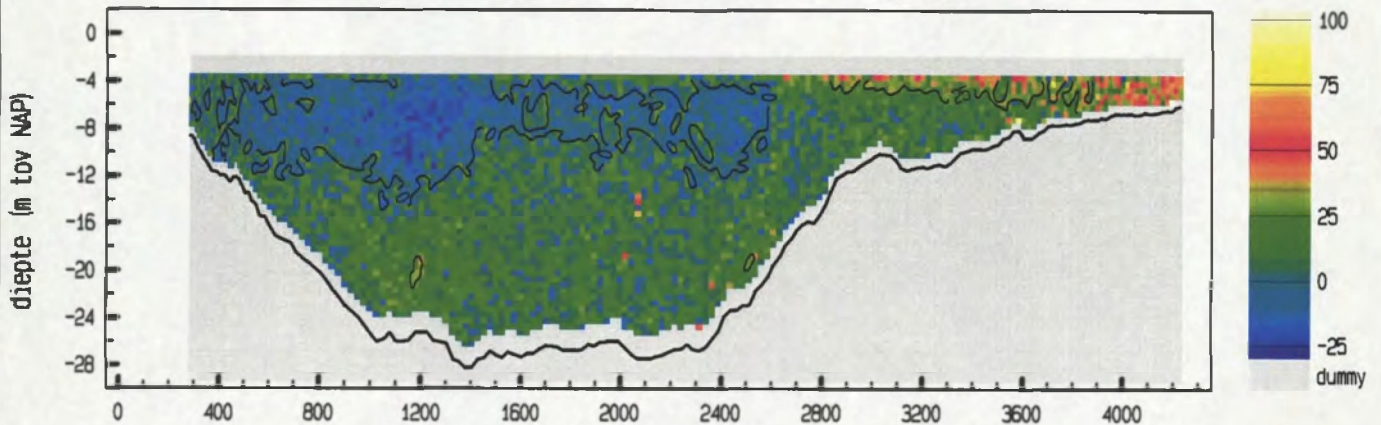
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da002a.val

tijd : 0644 - 0659

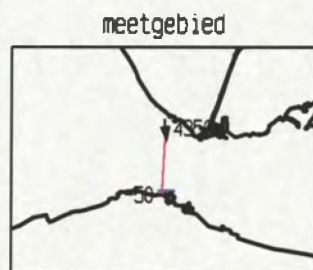
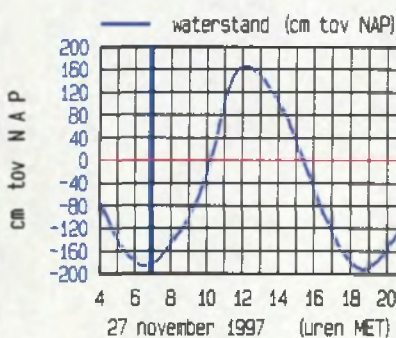
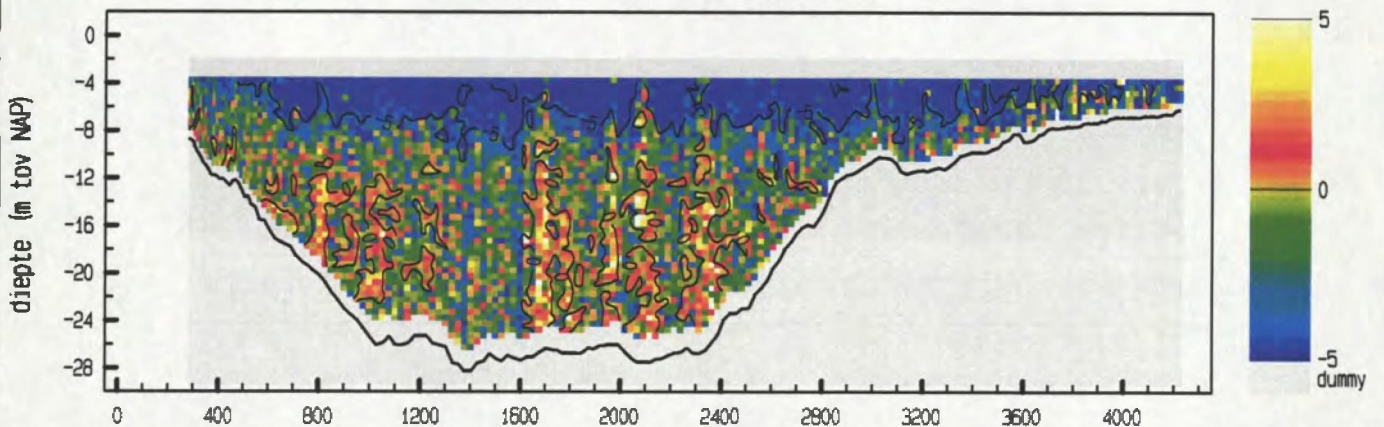
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4188 m

stroomsnelheid : 60 cm/sec

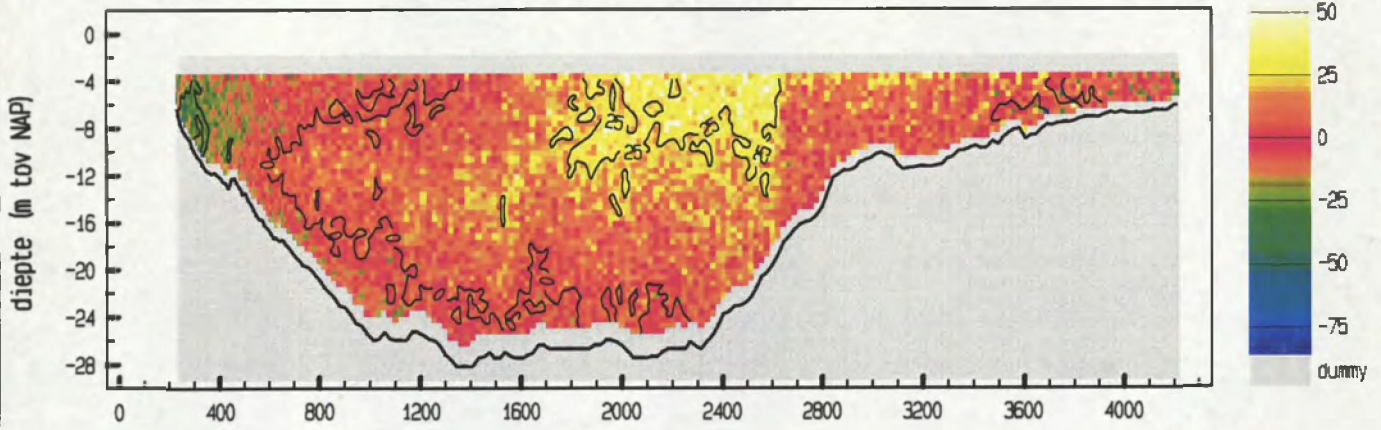
stroomrichting : 173 °

doorstroomoppervlak : 63134 m<sup>2</sup>

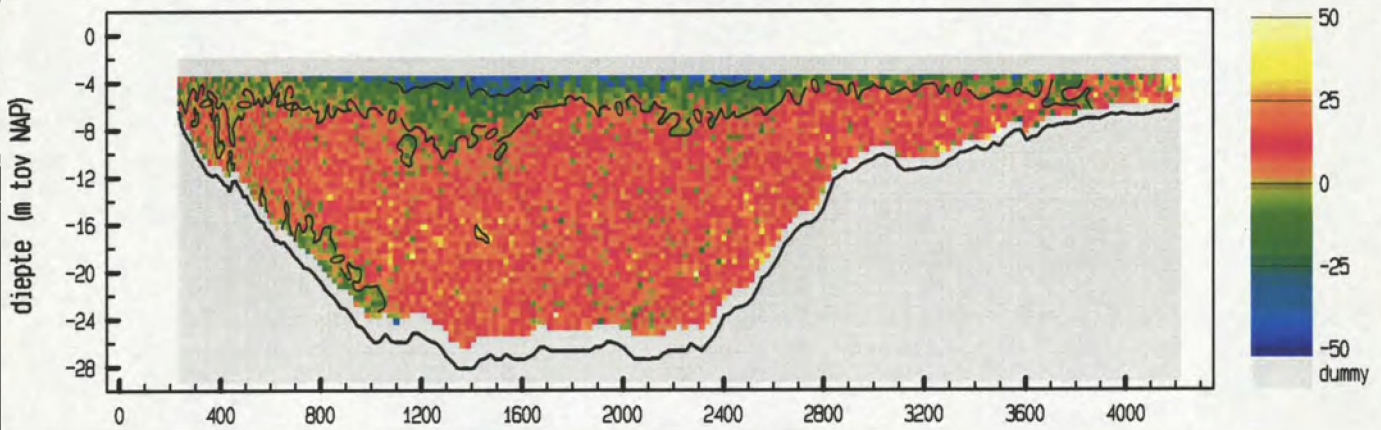
raaidebiet : 15601 m<sup>3</sup>/sec

adcpfile : 11da002a.val

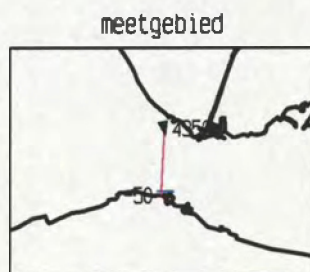
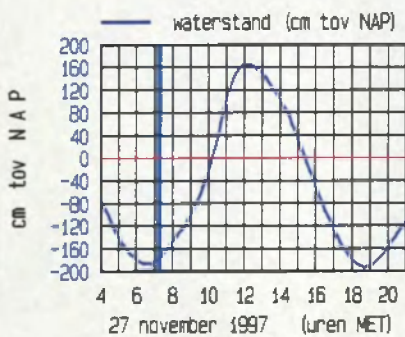
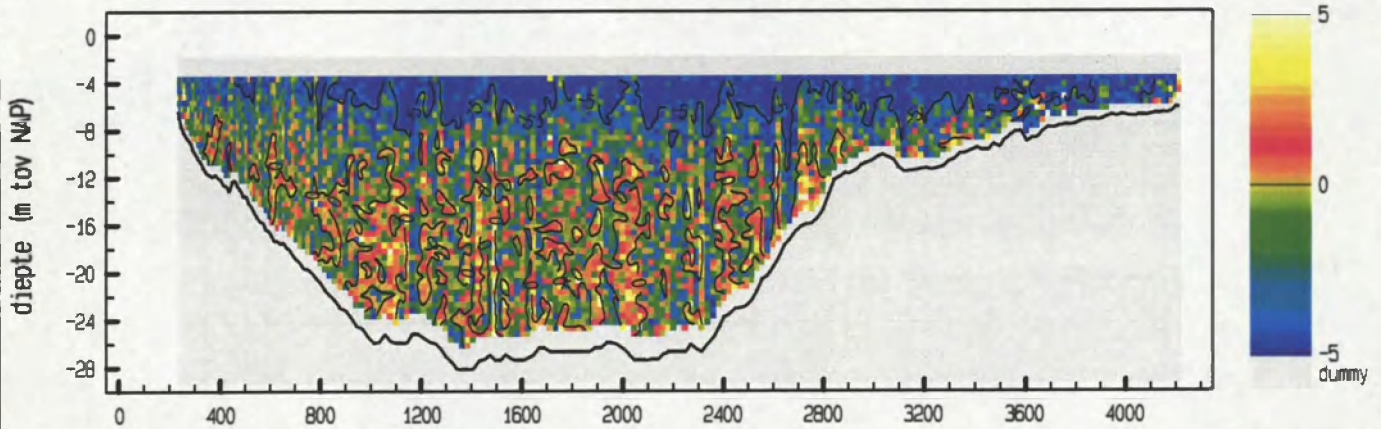
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 4212 m  
 stroomsnelheid : 31 cm/sec  
 stroomrichting : 168 °

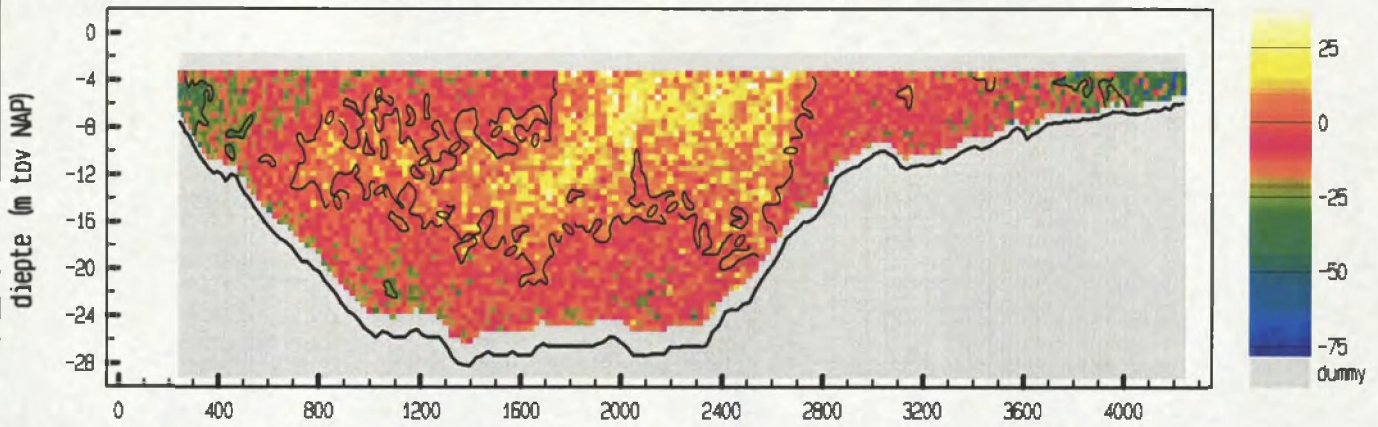
doorstroomoppervlak : 63820 m<sup>2</sup>  
 raaidebiet : 4617 m<sup>3</sup>/sec



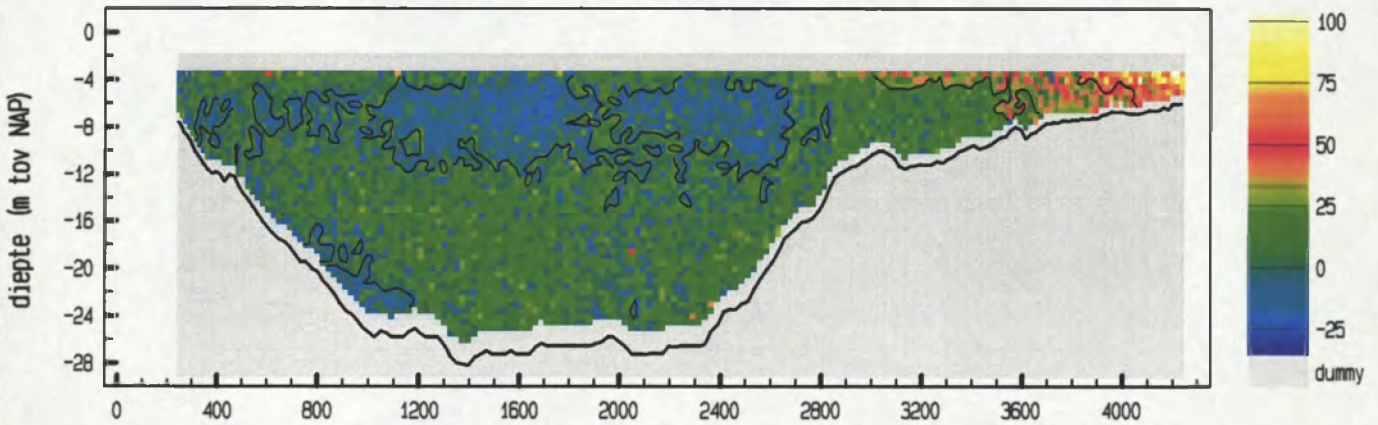
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da004a.val

tijd : 0723 - 0739

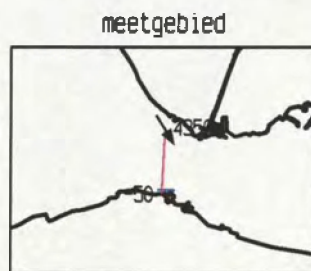
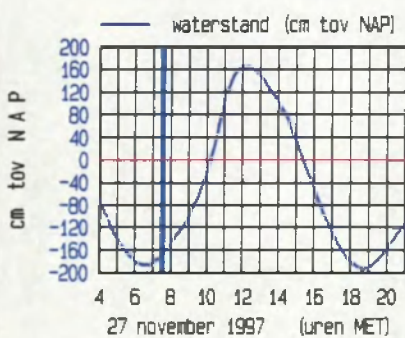
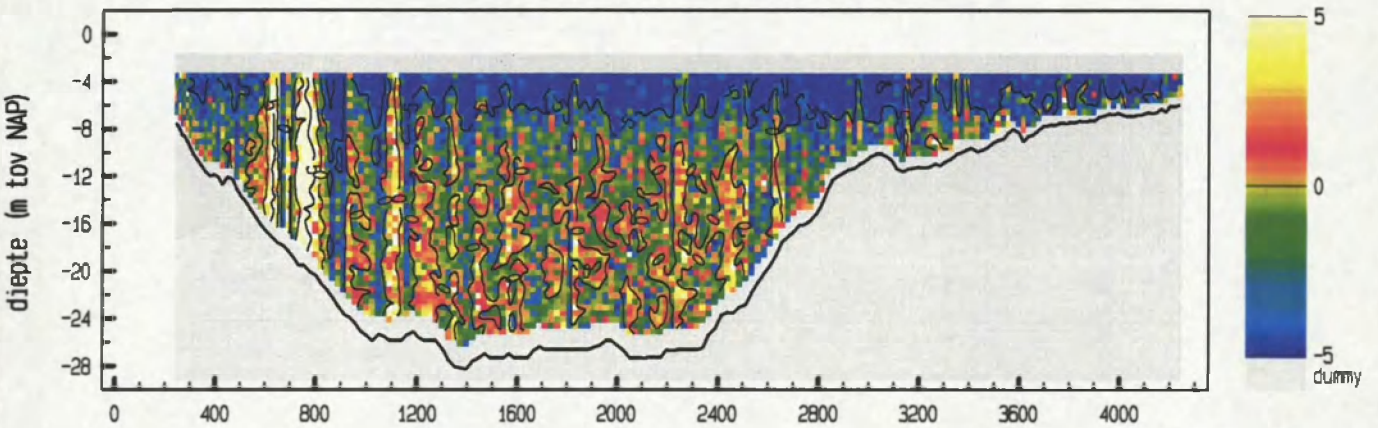
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4196 m

stroomsnelheid : 91 cm/sec

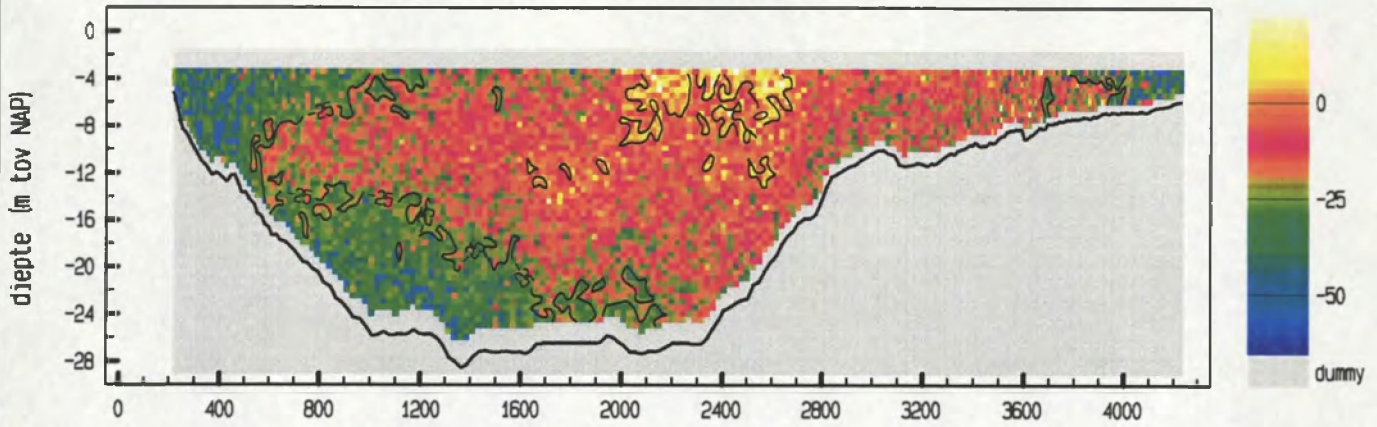
stroomrichting : 148 °

doorstroomoppervlak : 64214 m<sup>2</sup>

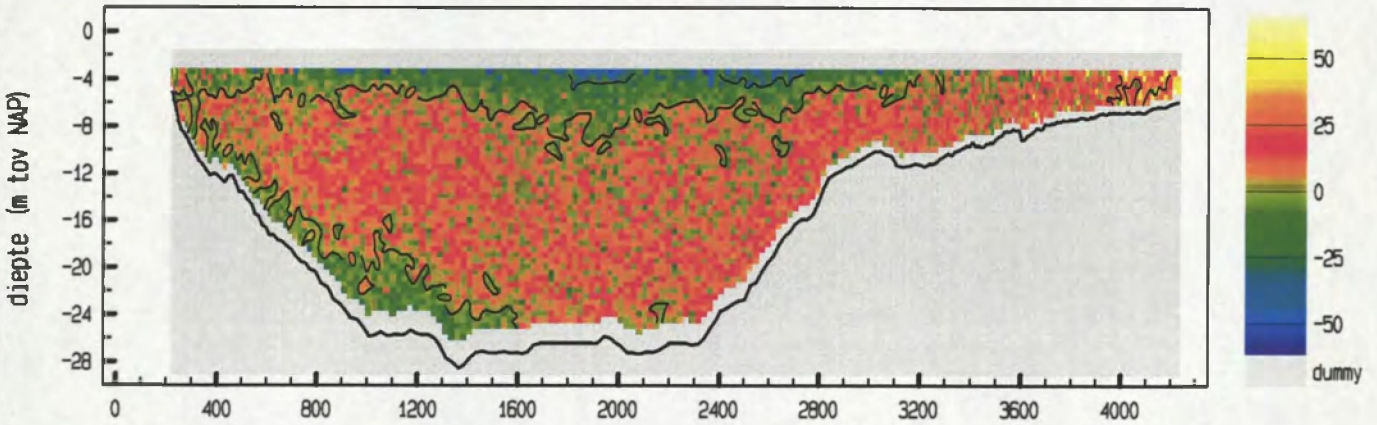
raaidebiet : -2740 m<sup>3</sup>/sec

adcpfile : 11da004a.val

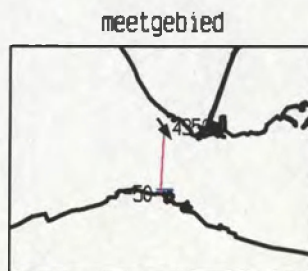
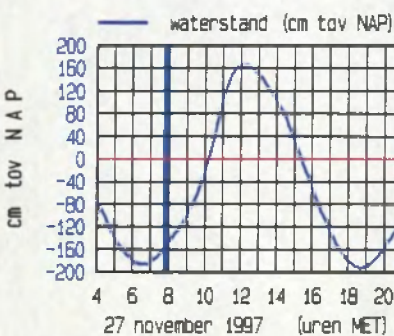
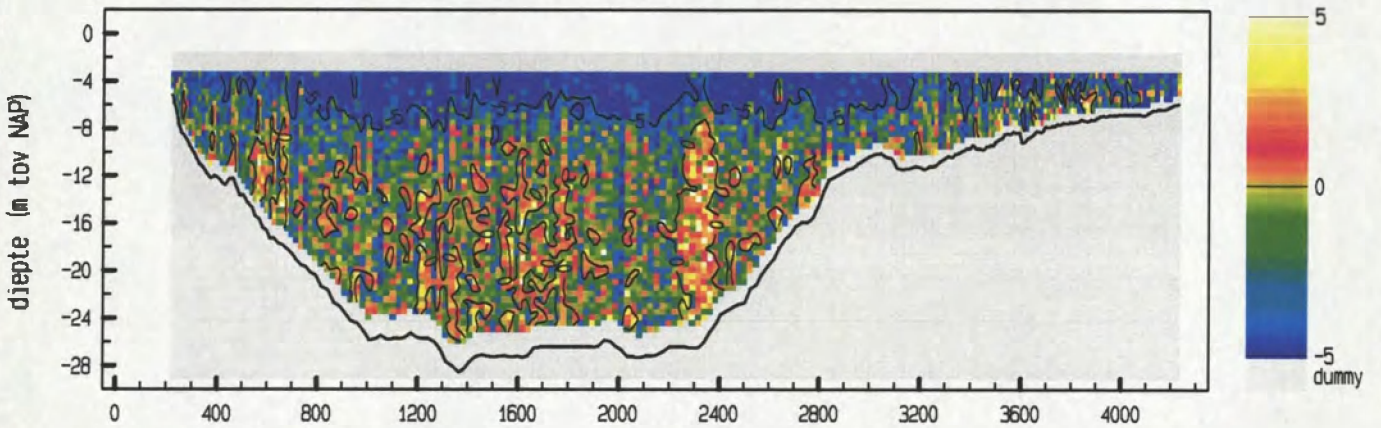
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



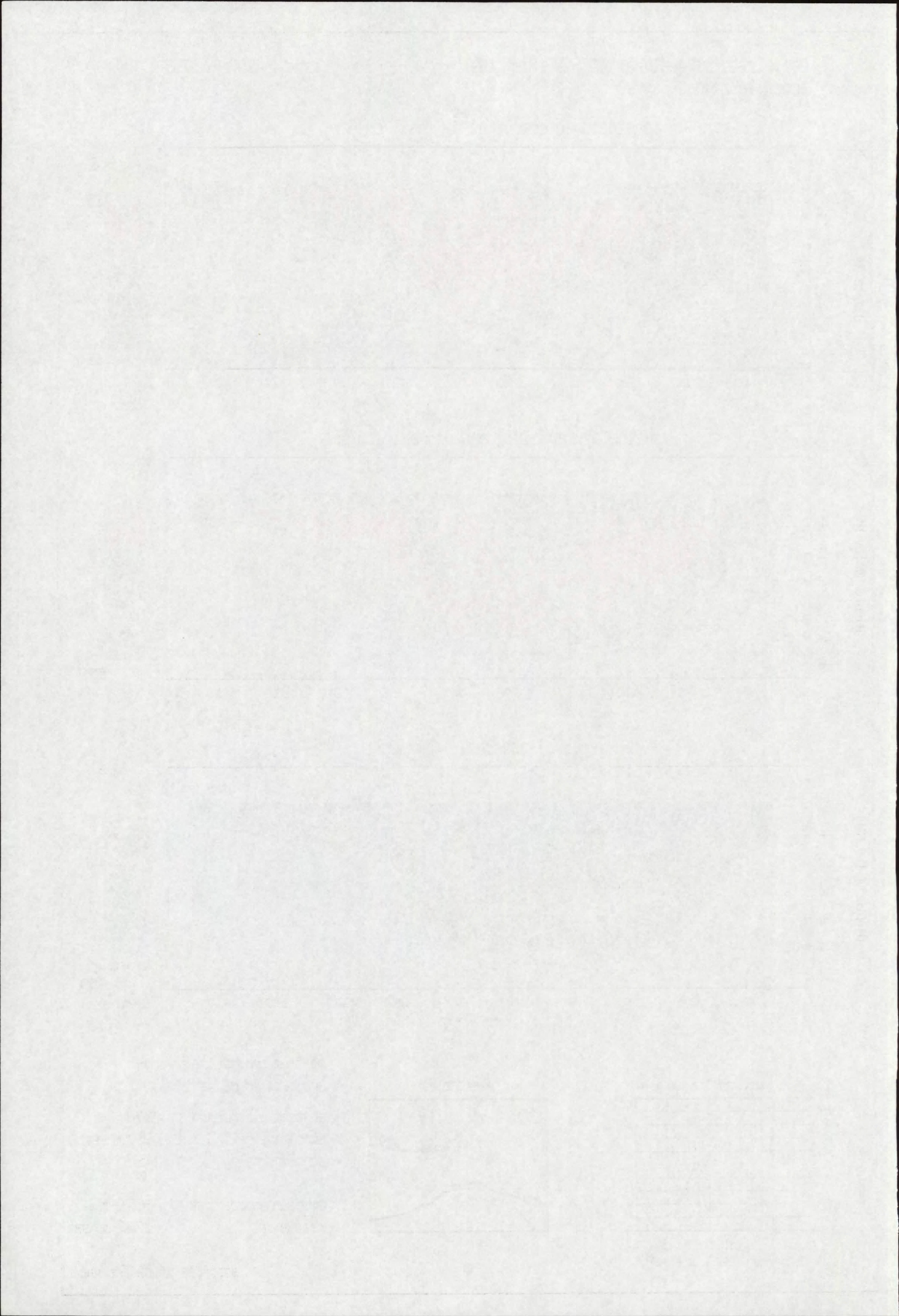
vertikale snelheid (cm/sec)



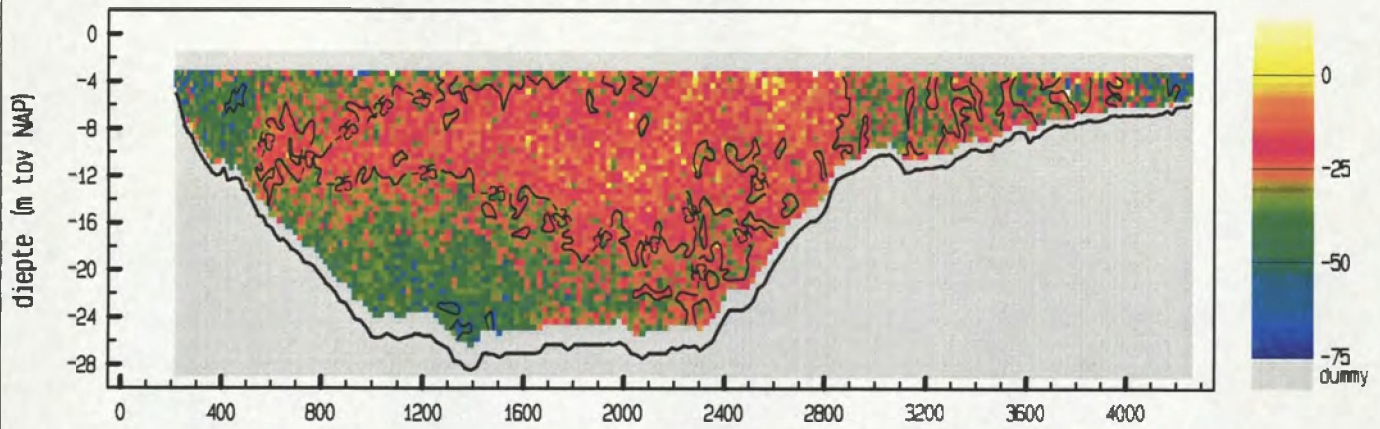
maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 4230 m  
 stroomsnelheid : 65 cm/sec  
 stroomrichting : 145 °

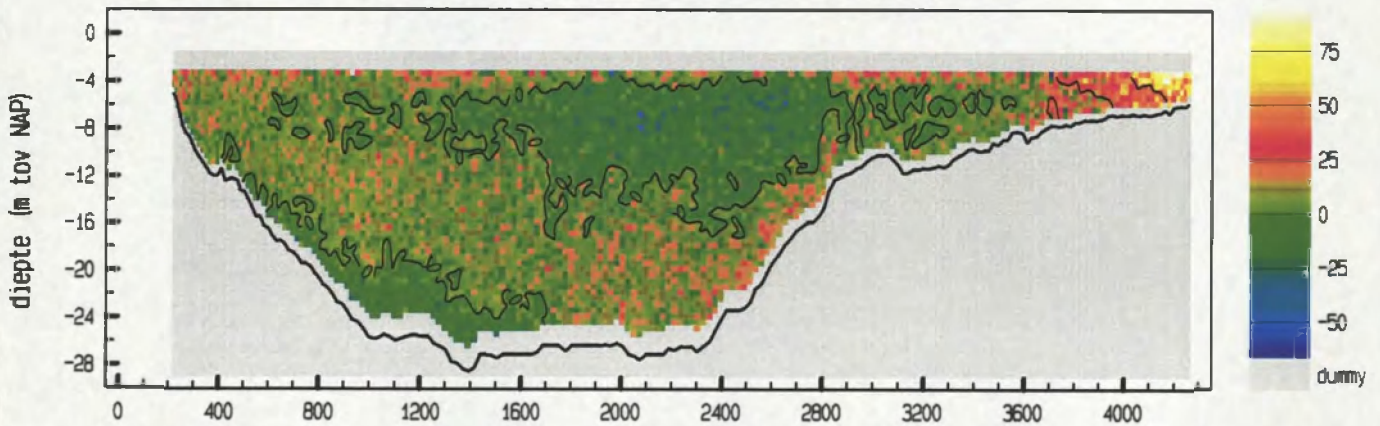
doorstroomoppervlak : 64779 m<sup>2</sup>  
 raai-debiet : -11817 m<sup>3</sup>/sec



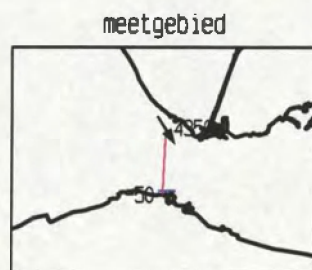
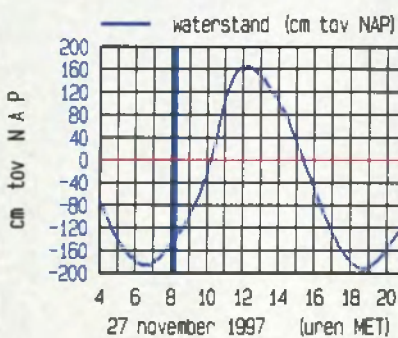
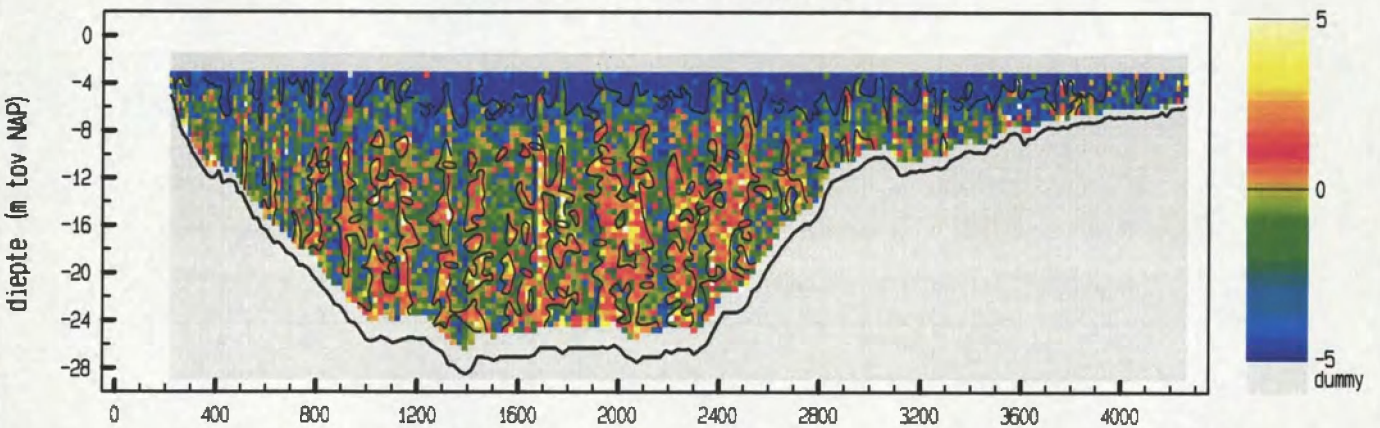
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



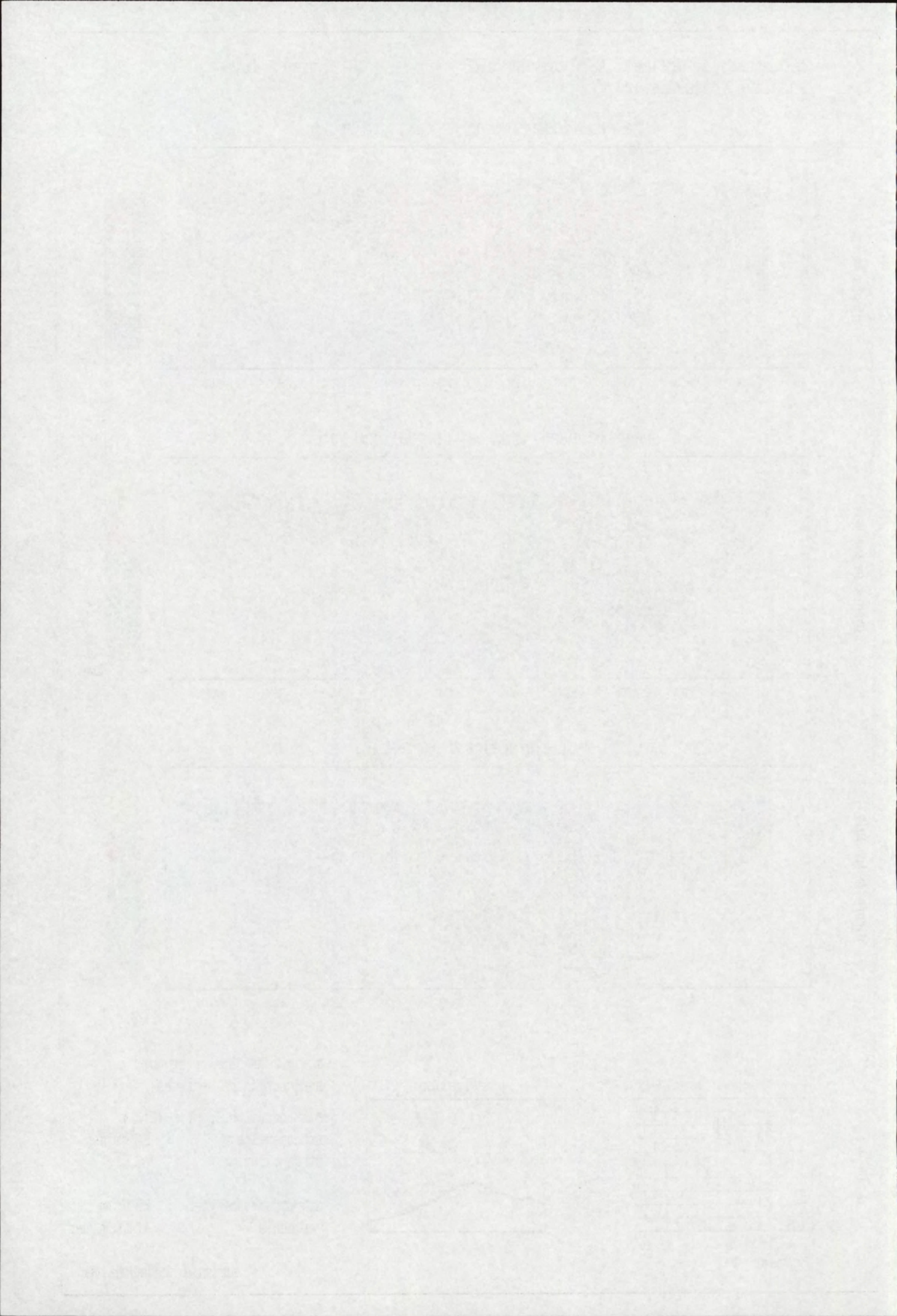
vertikale snelheid (cm/sec)



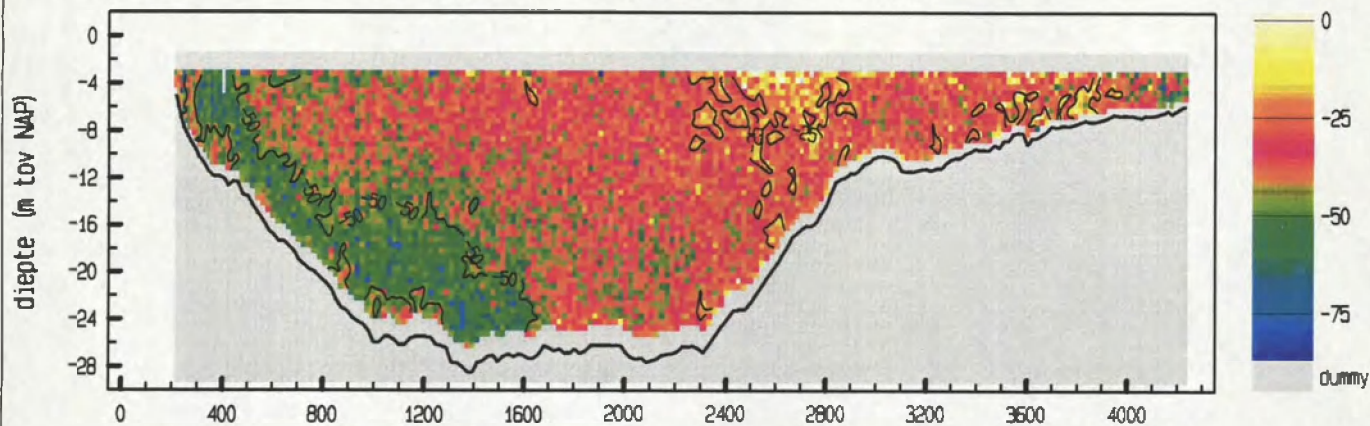
maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 4213 m  
 stroomsnelheid : 86 cm/sec  
 stroomrichting : 148 °

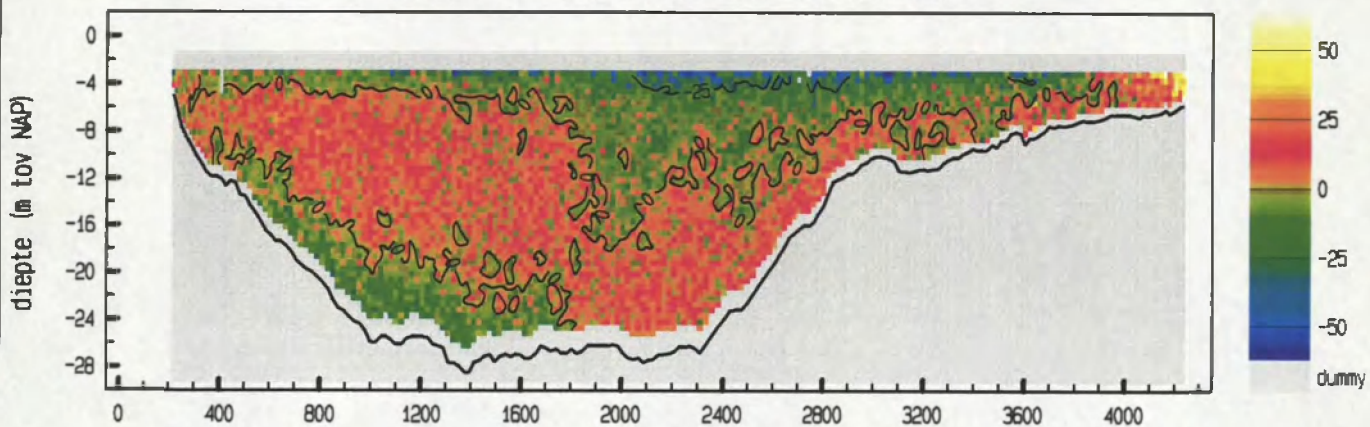
doorstroomoppervlak : 65373 m<sup>2</sup>  
 raaidebiet : -17428 m<sup>3</sup>/sec



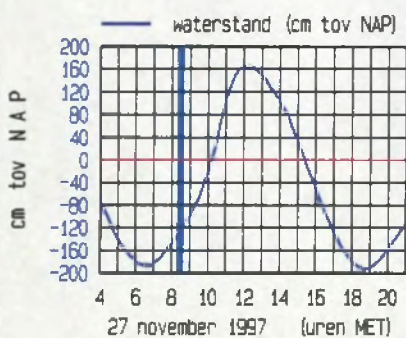
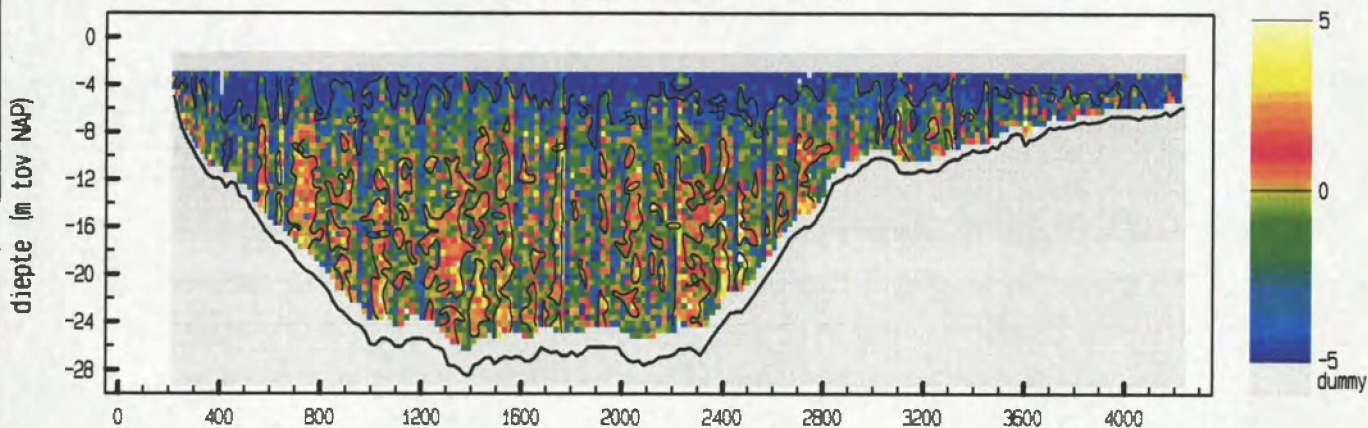
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied

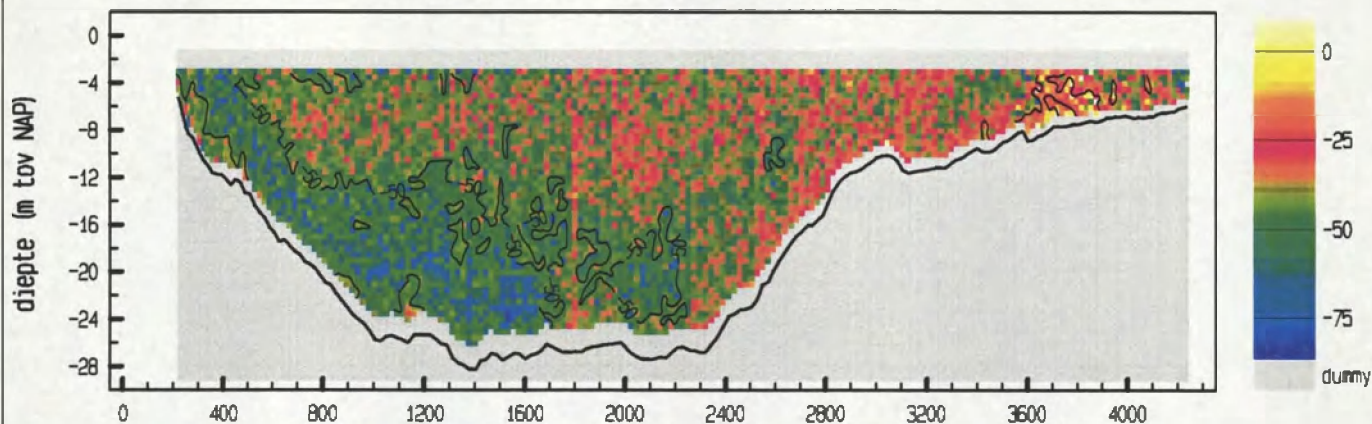


maximum gemiddelde stroom-  
 snelheid in de vertikaal

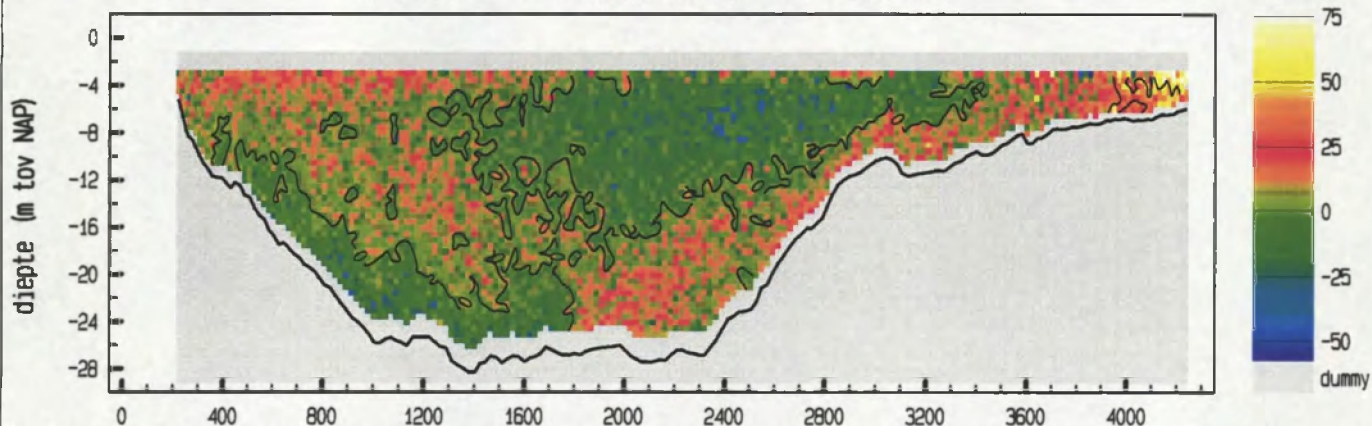
afstand uit nulpunt : 4234 m  
 stroomsnelheid : 64 cm/sec  
 stroomrichting : 144 °

doorstroomoppervlak : 65816 m<sup>2</sup>  
 raaidebiet : -24388 m<sup>3</sup>/sec

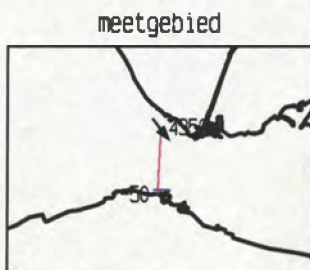
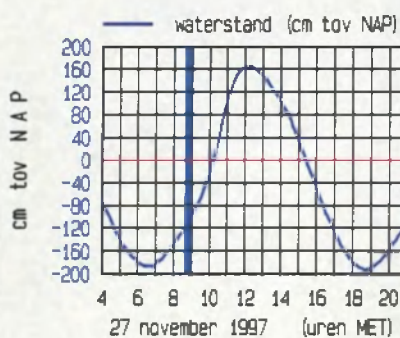
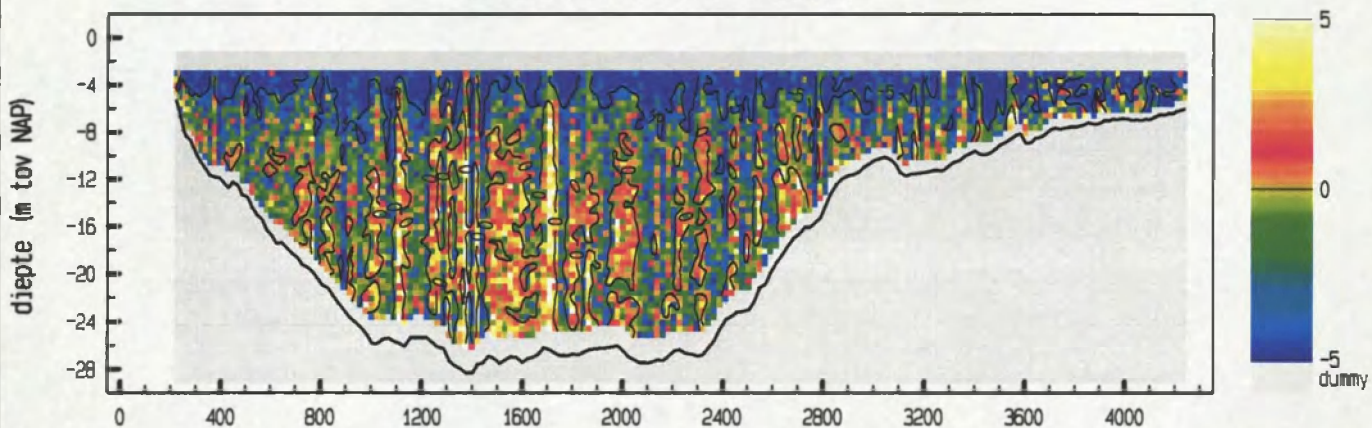
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

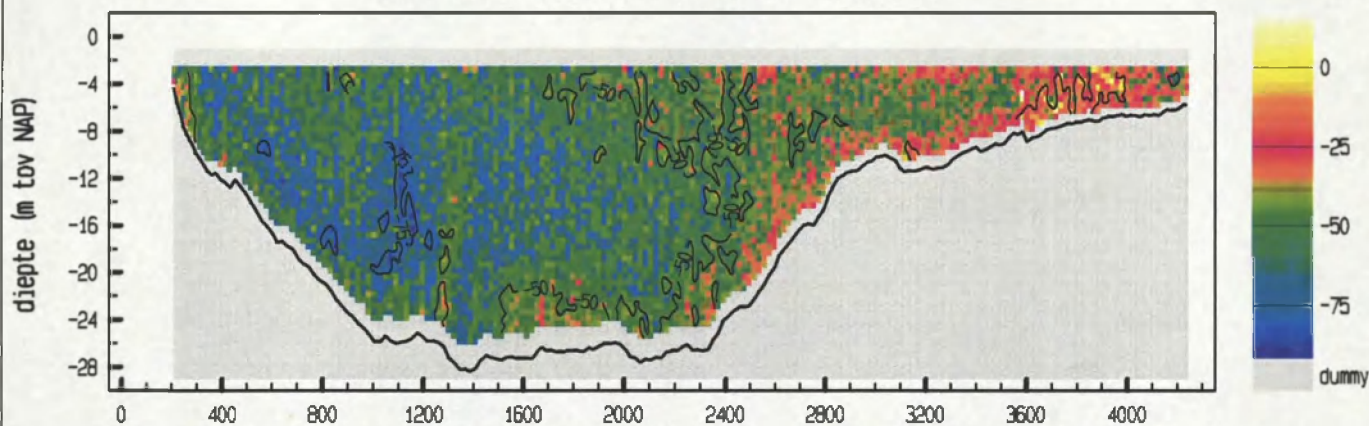
afstand uit nulpunt : 4185 m  
 stroomsnelheid : 74 cm/sec  
 stroomrichting : 142 °

doorstroomoppervlak : 66375 m<sup>2</sup>  
 raaidebiet : -28606 m<sup>3</sup>/sec

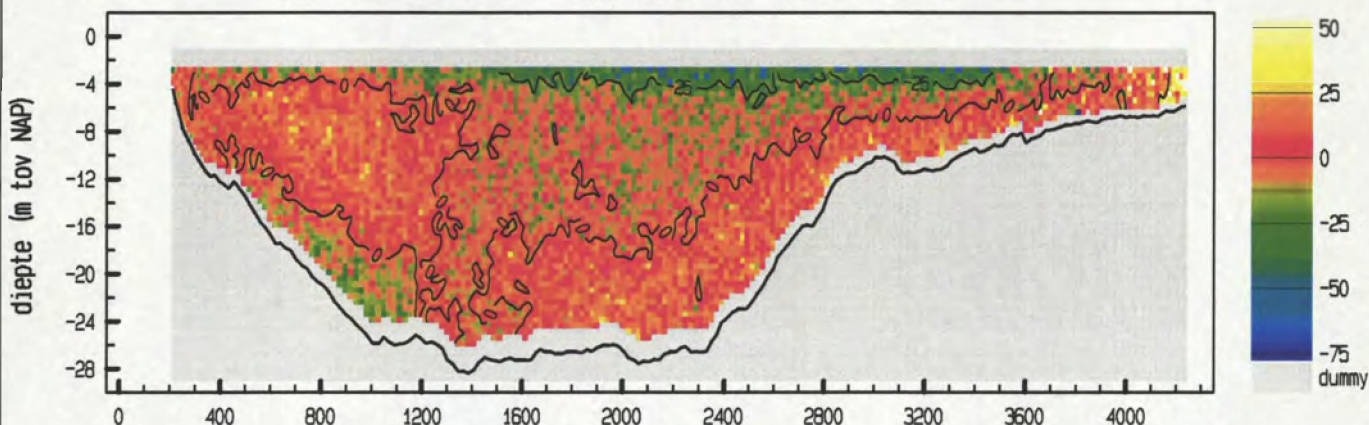
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da009a.val

tijd : 0854 - 0911

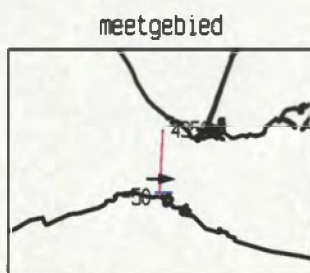
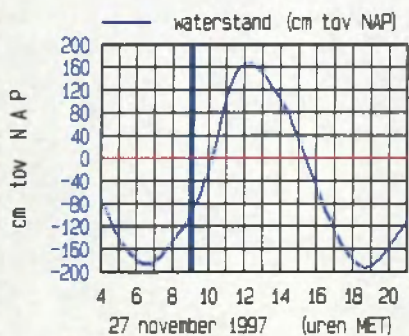
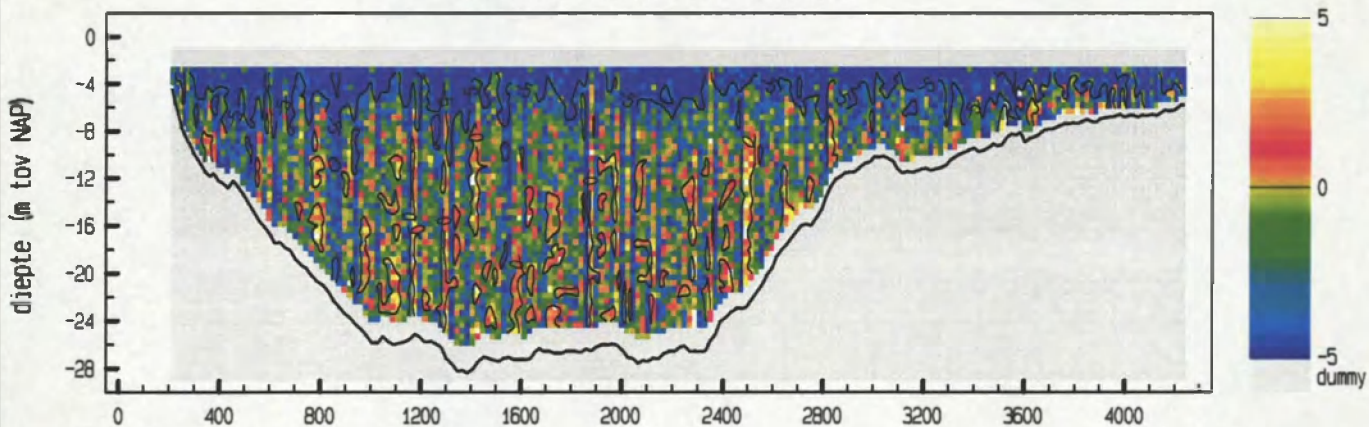
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

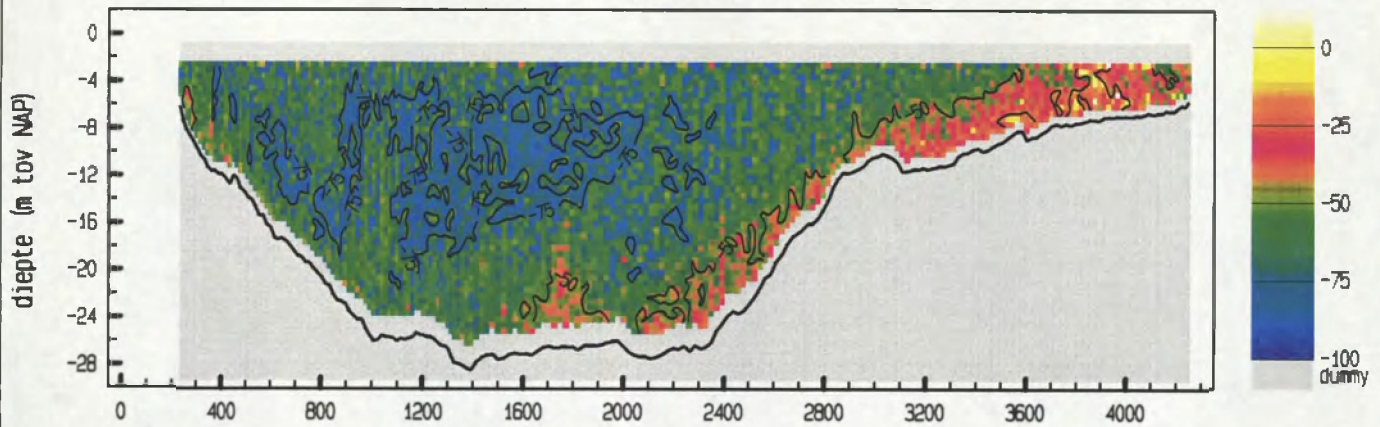
afstand uit nulpunt : 1113 m  
 stroomsnelheid : 71 cm/sec  
 stroomrichting : 90°

doorstroomoppervlak : 67217 m<sup>2</sup>  
 raaidebiet : -34618 m<sup>3</sup>/sec

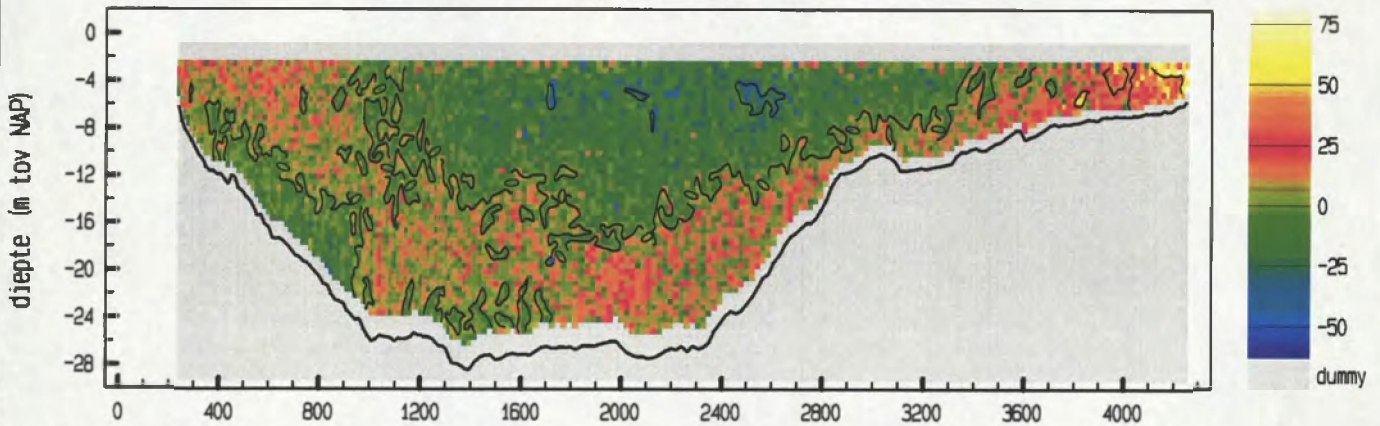
adcpfile : 11da009a.val



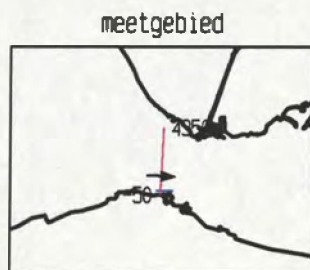
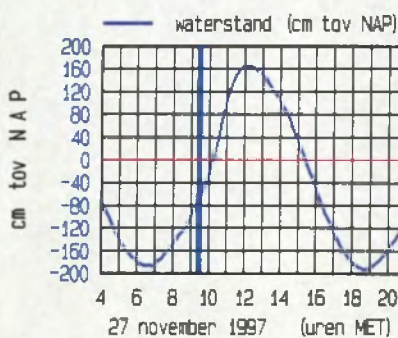
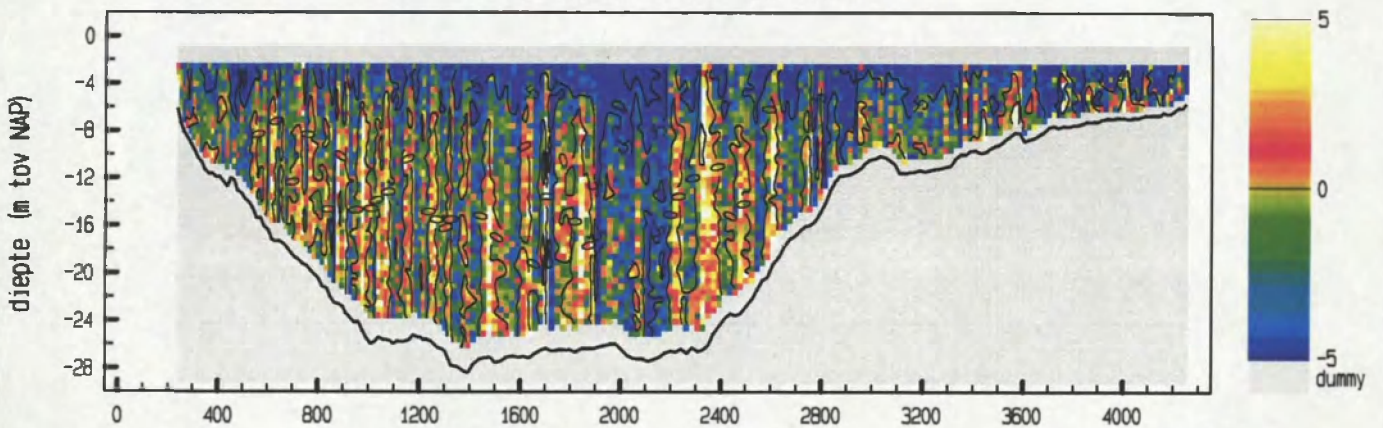
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1189 m

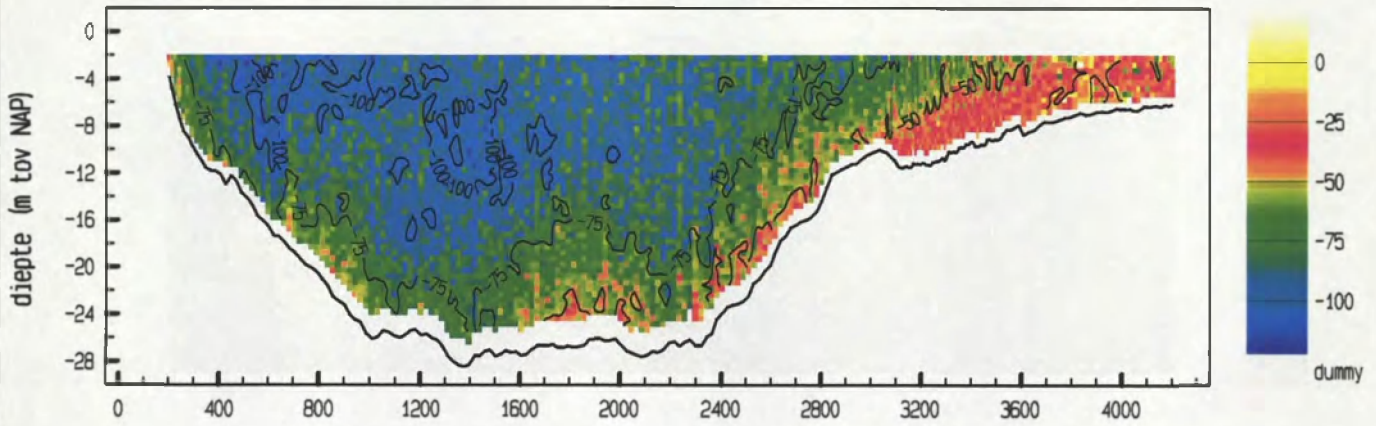
stroomsnelheid : 76 cm/sec

stroomrichting : 94 °

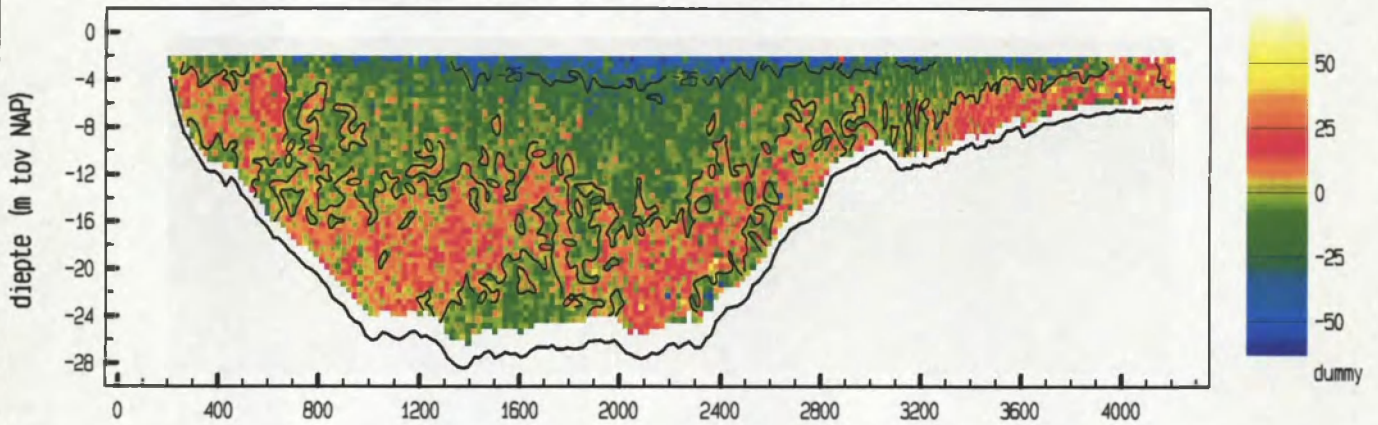
doorstroomoppervlak : 68219 m<sup>2</sup>

raaidebiet : -41376 m<sup>3</sup>/sec

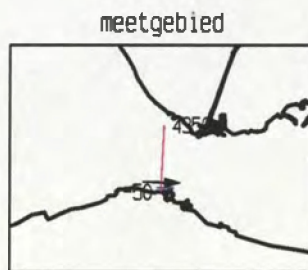
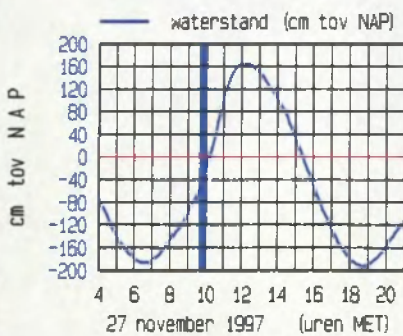
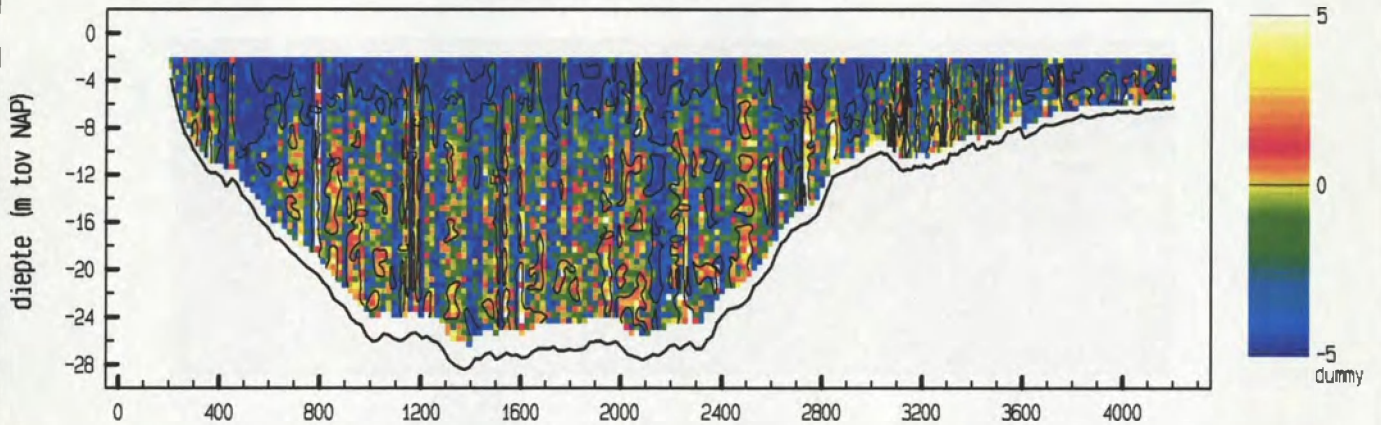
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

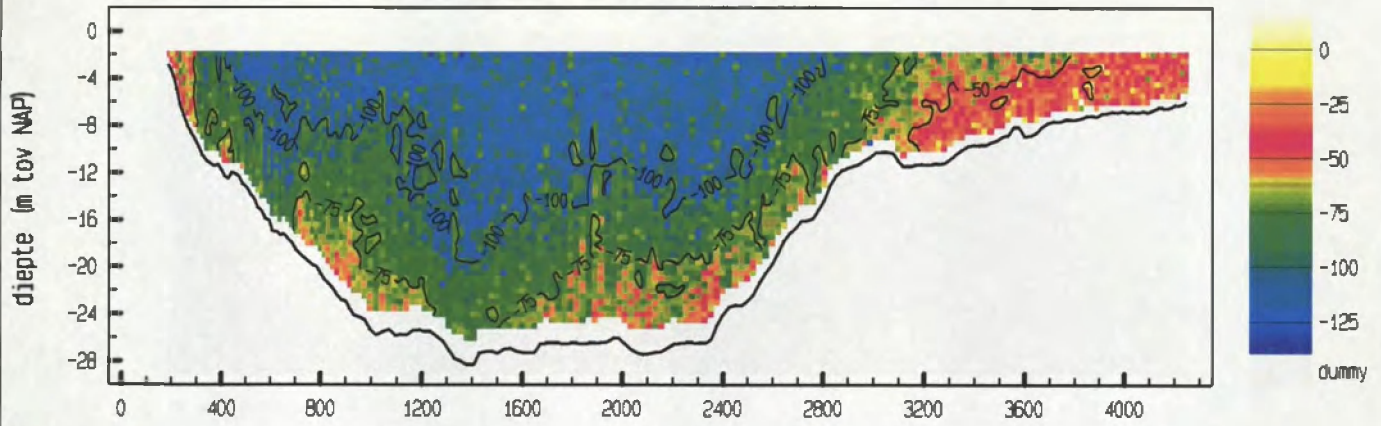


maximum gemiddelde stroom-  
 snelheid in de vertikaal

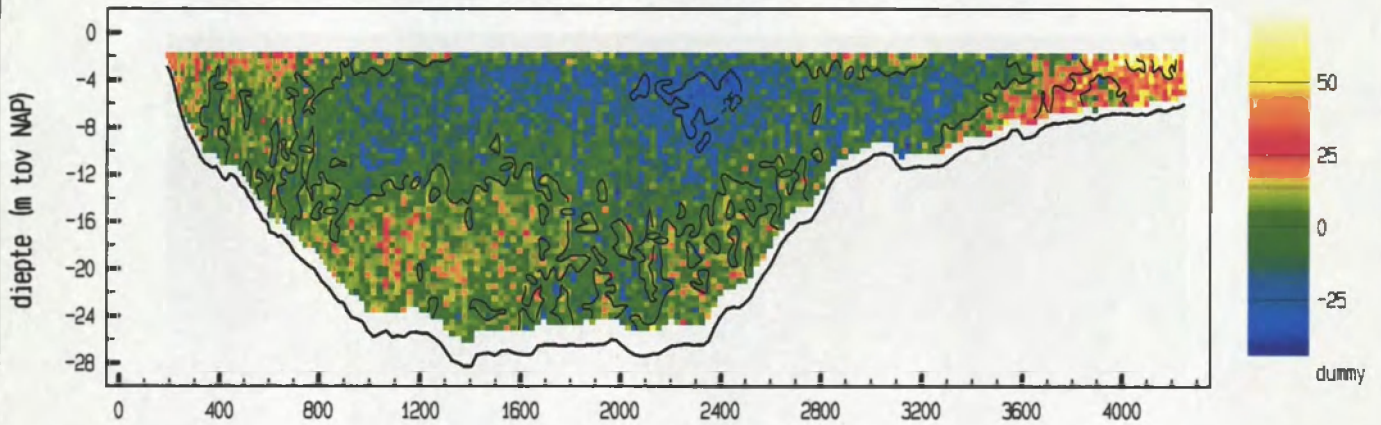
afstand uit nulpunt : 579 m  
 stroomsnelheid : 97 cm/sec  
 stroomrichting : 92°

doorstroomoppervlak : 69247 m<sup>2</sup>  
 raaidebiet : -51255 m<sup>3</sup>/sec

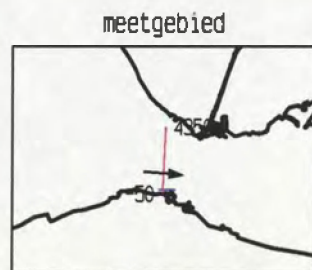
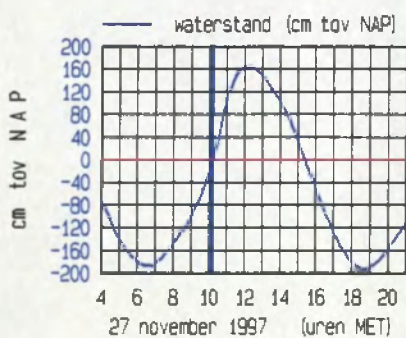
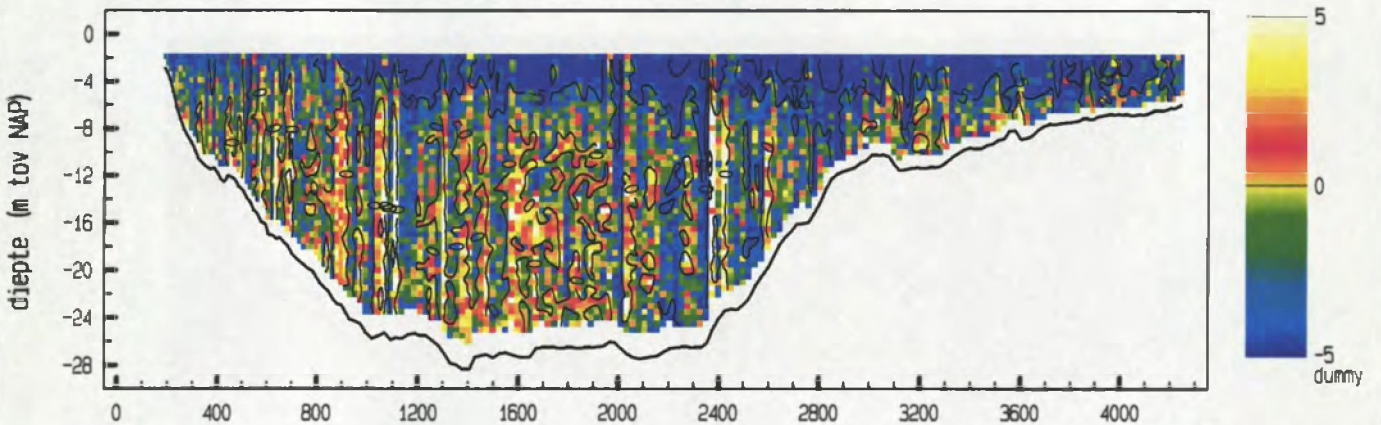
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 1309 m

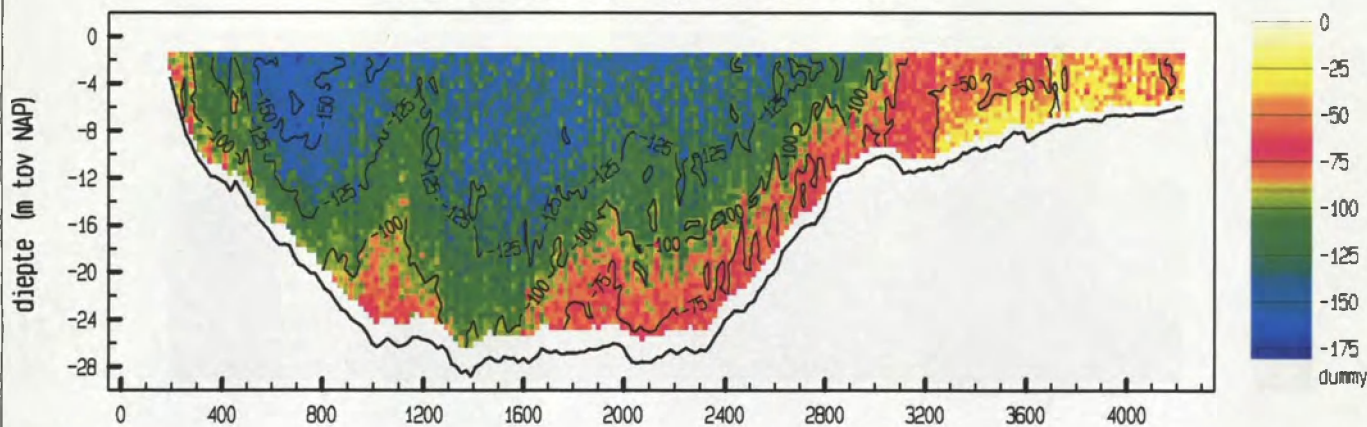
stroomsnelheid : 105 cm/sec

stroomrichting : 95 °

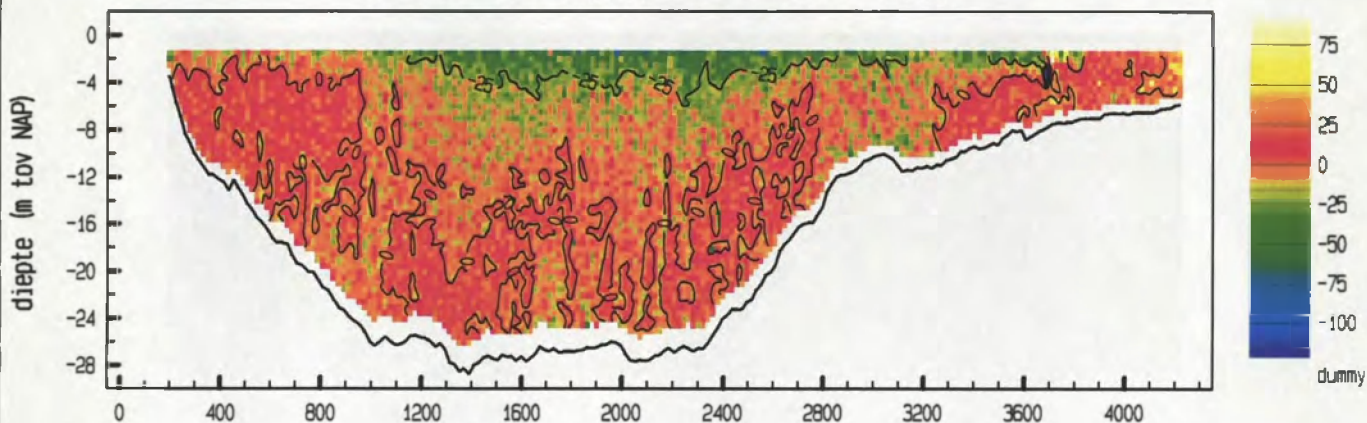
doorstroomoppervlak : 70705 m<sup>2</sup>

raaidebiet : -59705 m<sup>3</sup>/sec

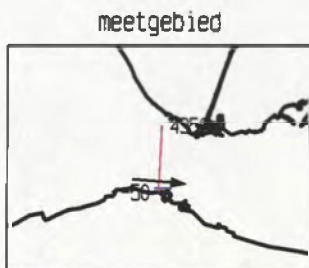
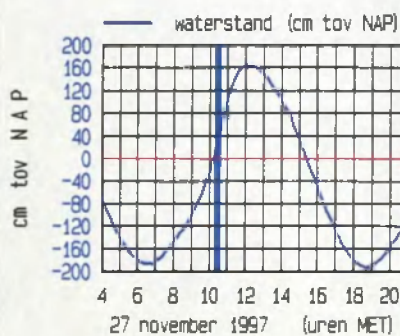
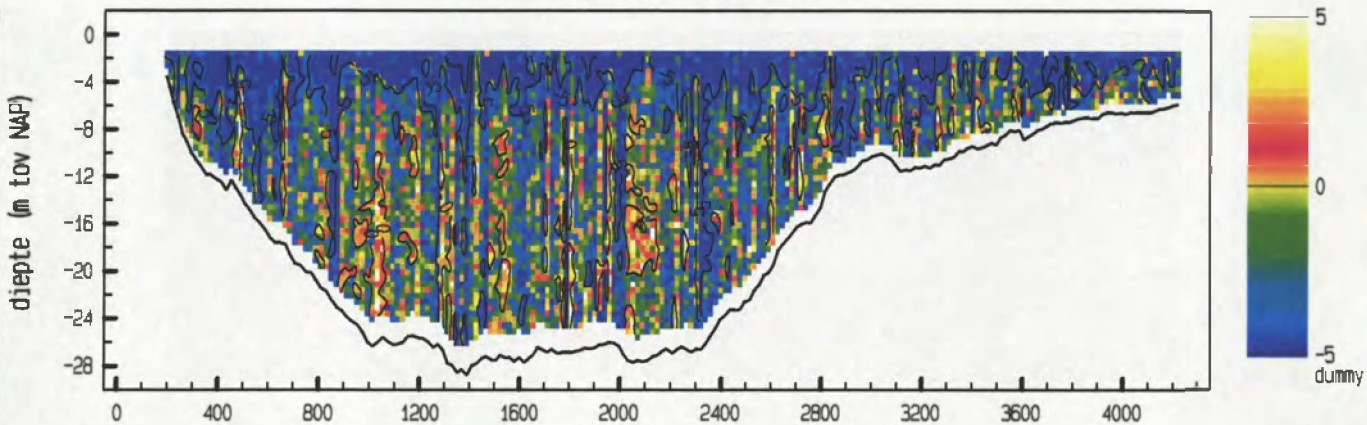
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



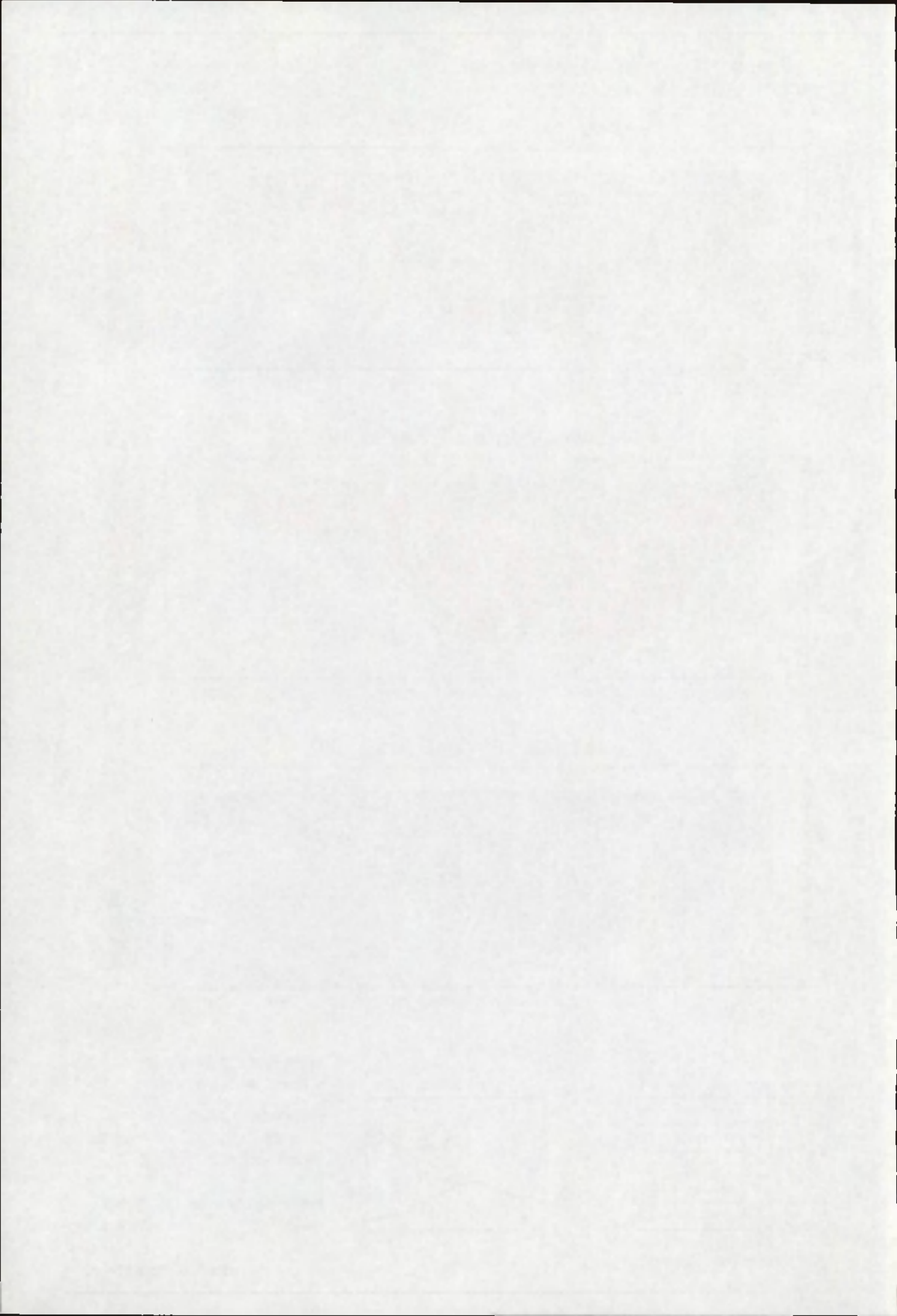
vertikale snelheid (cm/sec)



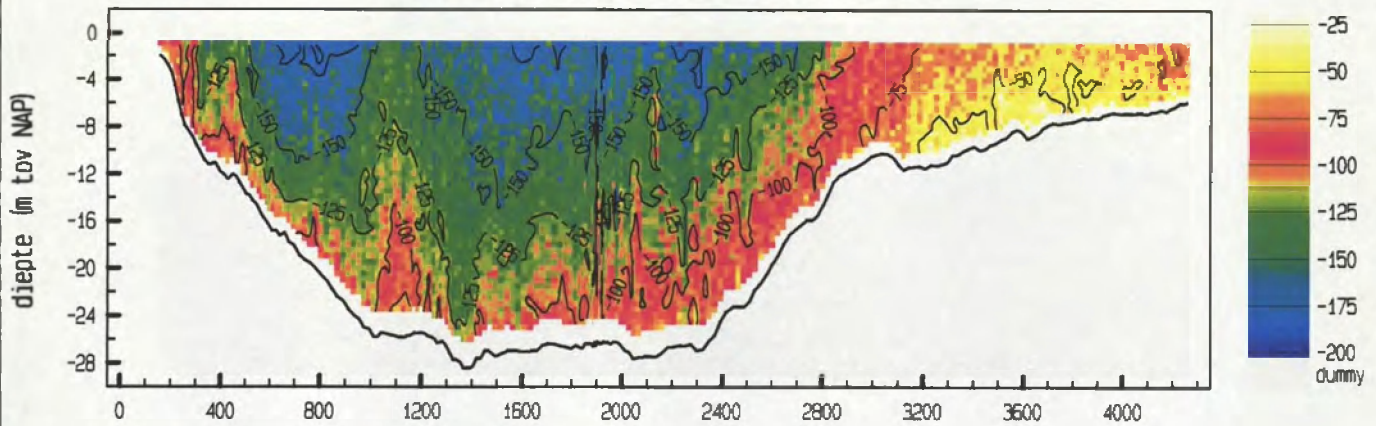
maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 669 m  
 stroomsnelheid : 141 cm/sec  
 stroomrichting : 95 °

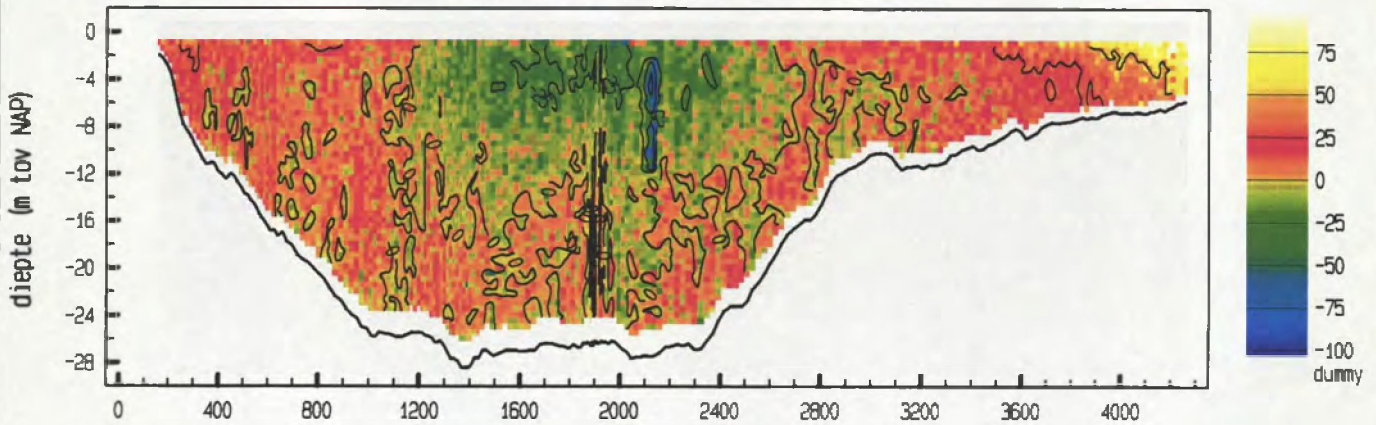
doorstroomoppervlak : 72544 m<sup>2</sup>  
 raaidebiet : -75138 m<sup>3</sup>/sec



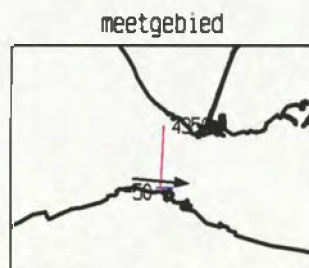
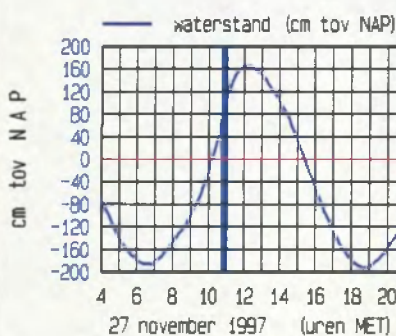
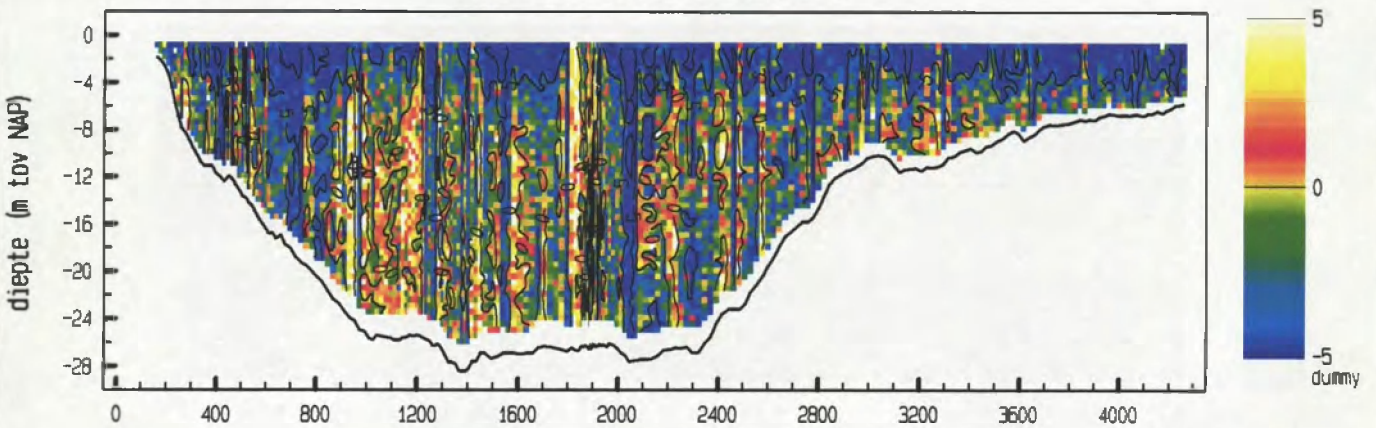
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 659 m

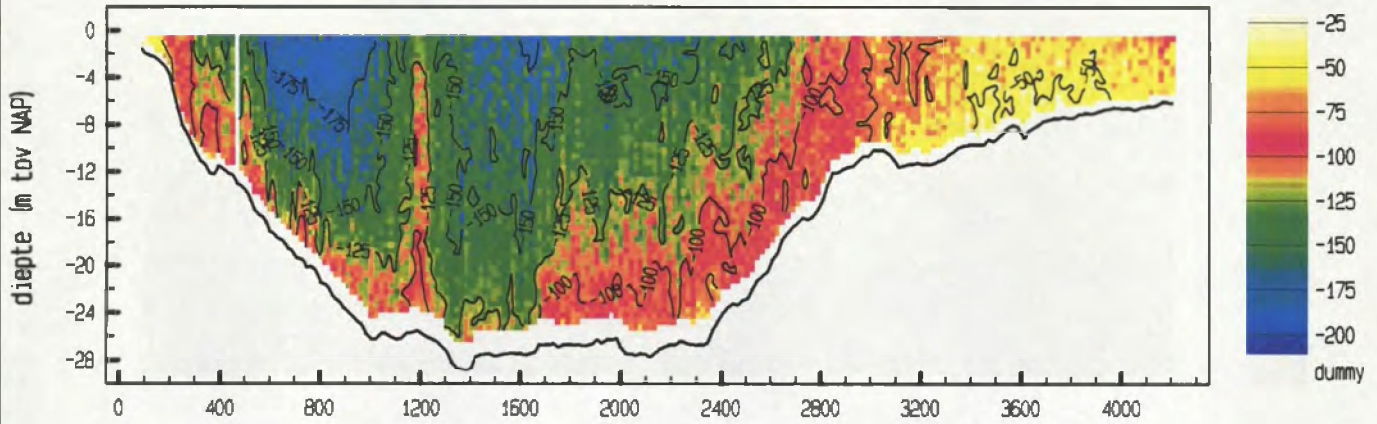
stroomsnelheid : 151 cm/sec

stroomrichting : 95°

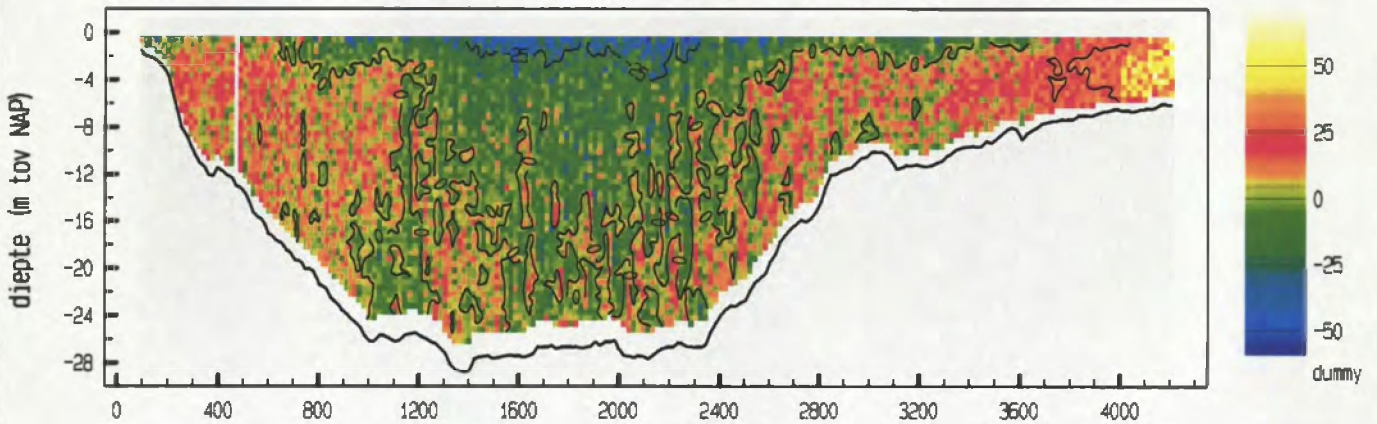
doorstroomoppervlak : 75229 m<sup>2</sup>

raaidebiet : -86573 m<sup>3</sup>/sec

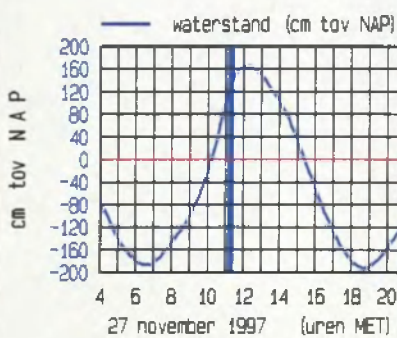
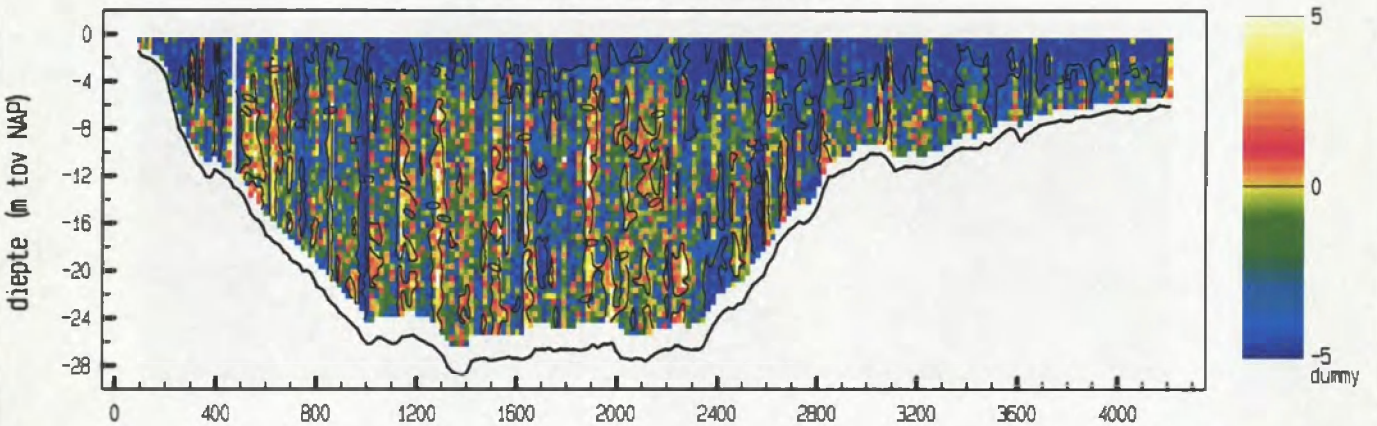
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied

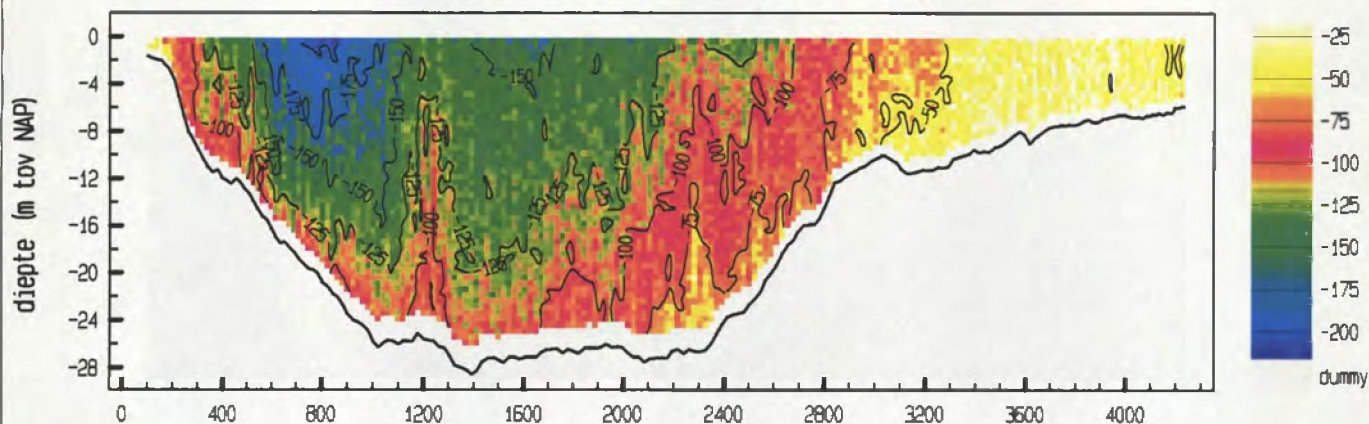


maximum gemiddelde stroom-  
 snelheid in de vertikaal

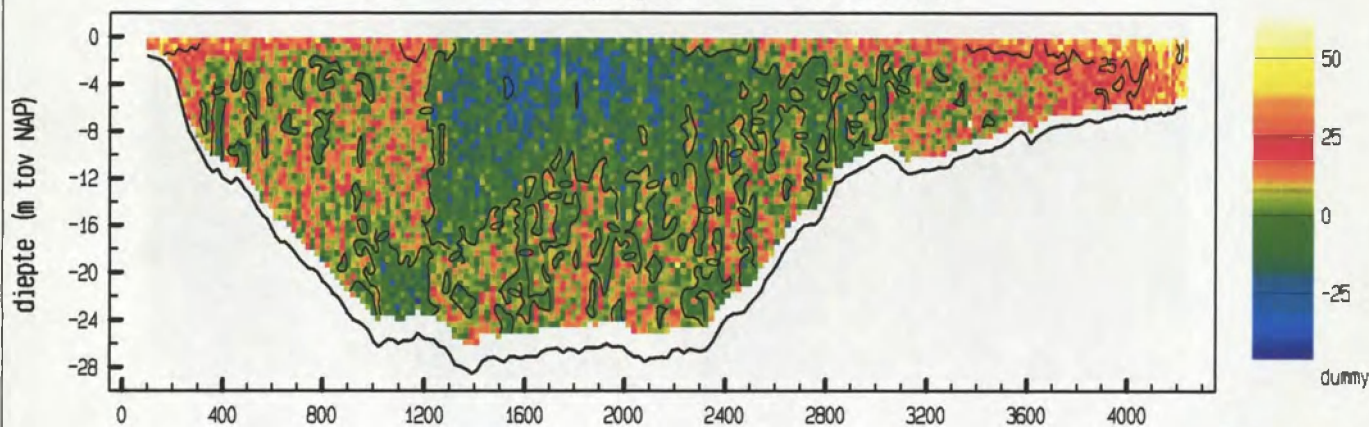
afstand uit nulpunt : 688 m  
 stroomsnelheid : 164 cm/sec  
 stroomrichting : 95°

doorstroomoppervlak : 76605 m<sup>2</sup>  
 raaidebiet : -88754 m<sup>3</sup>/sec

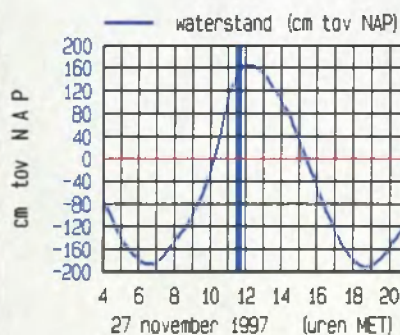
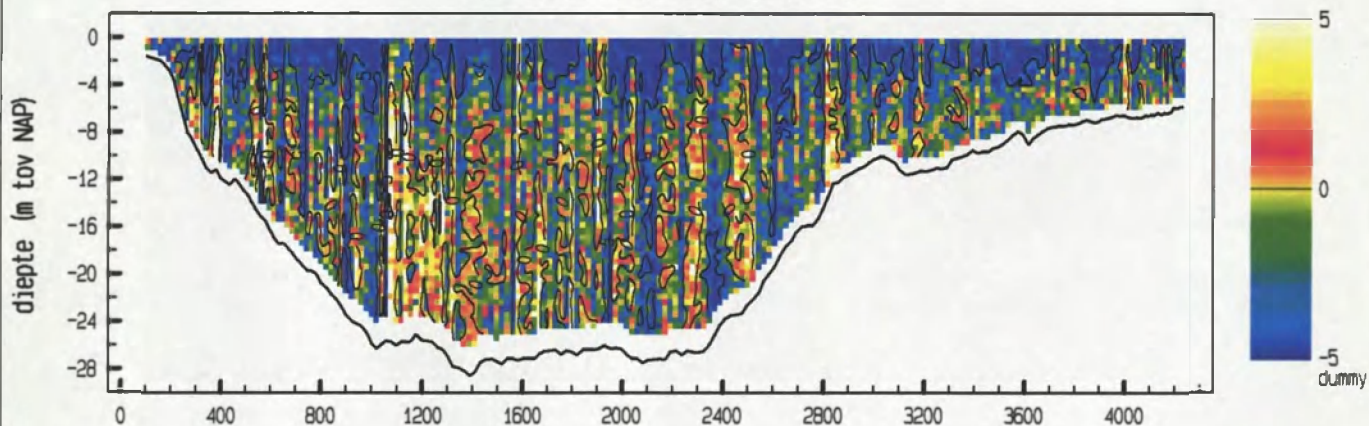
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied



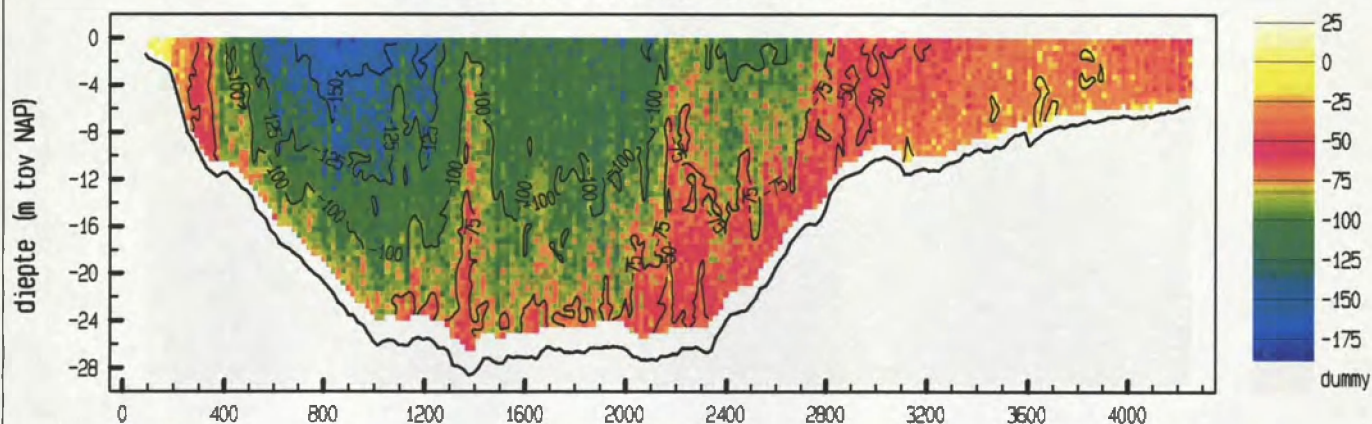
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 689 m  
 stroomsnelheid : 163 cm/sec  
 stroomrichting : 96 °

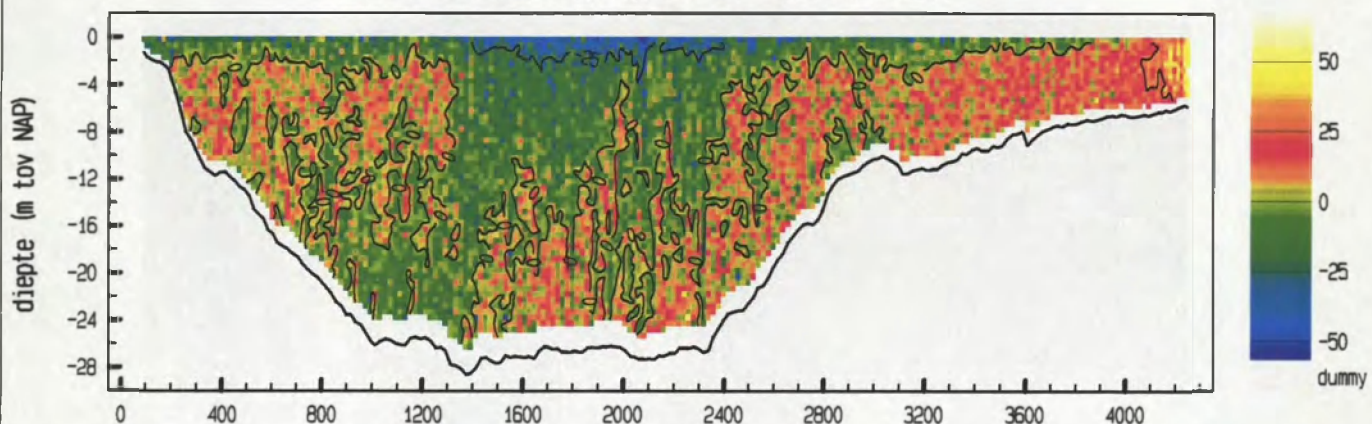
doorstroomoppervlak : 77470 m<sup>2</sup>  
 raaidebiet : -79985 m<sup>3</sup>/sec



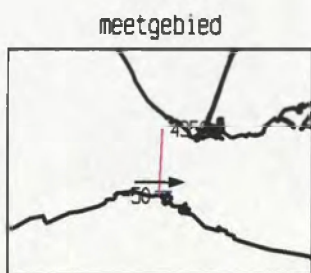
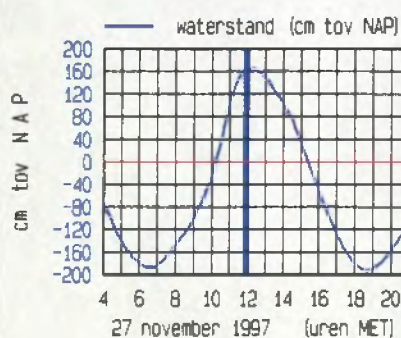
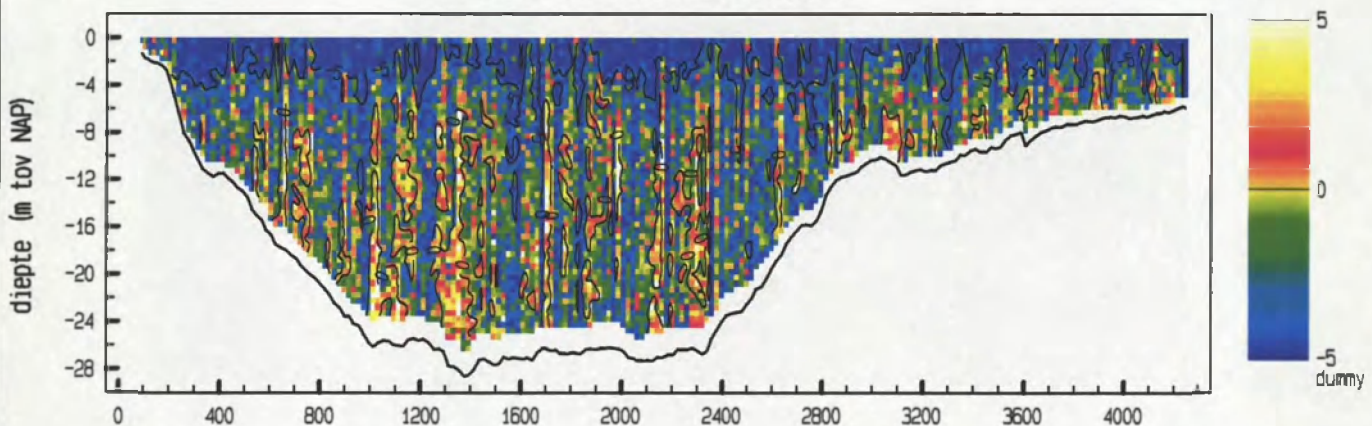
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

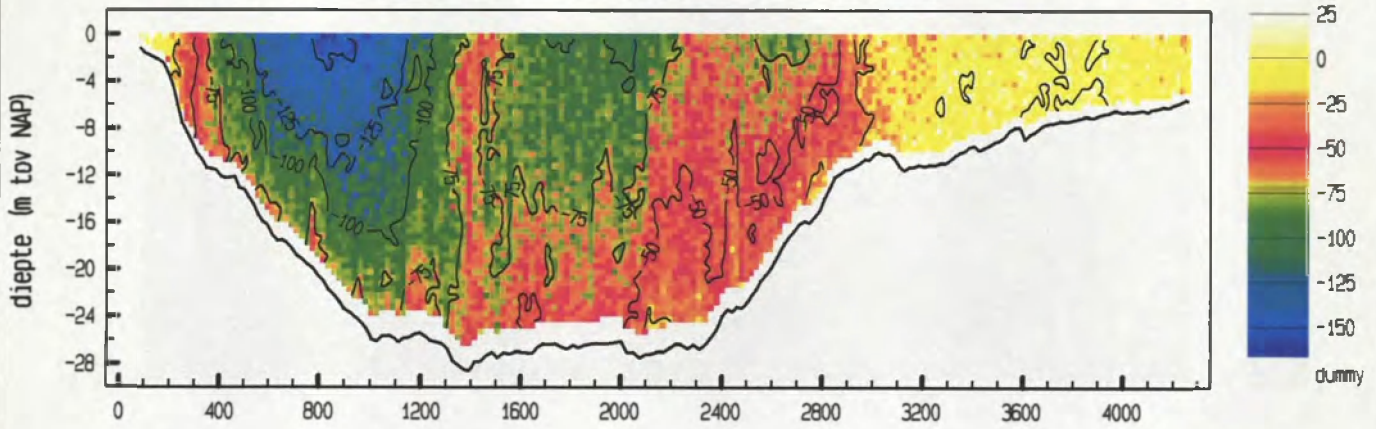


maximum gemiddelde stroom-  
 snelheid in de vertikaal

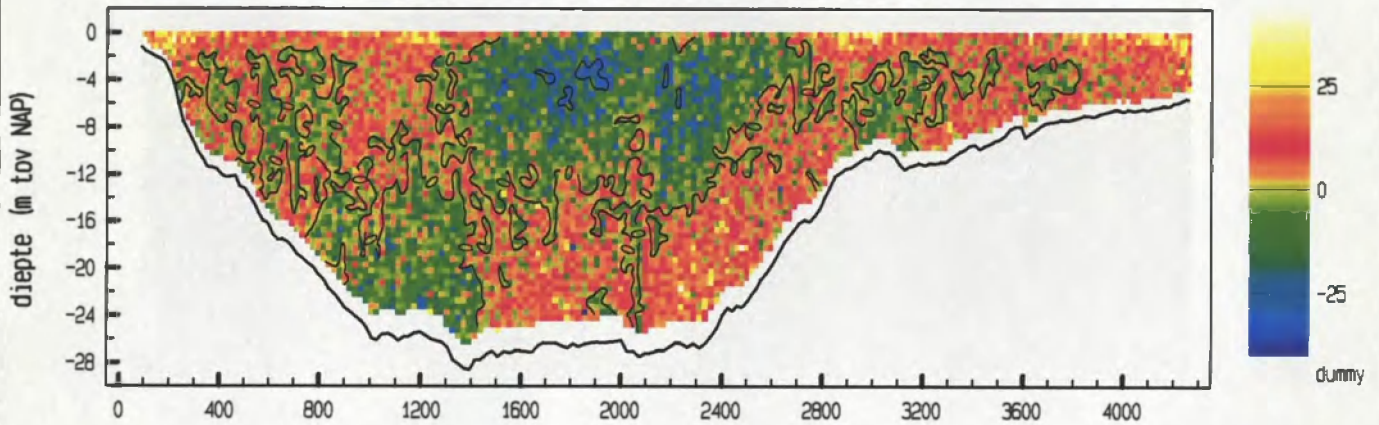
afstand uit nulpunt : 840 m  
 stroomsnelheid : 130 cm/sec  
 stroomrichting : 90°

doorstroomoppervlak : 78058 m<sup>2</sup>  
 raaidebiet : -64384 m<sup>3</sup>/sec

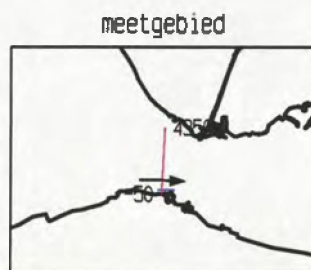
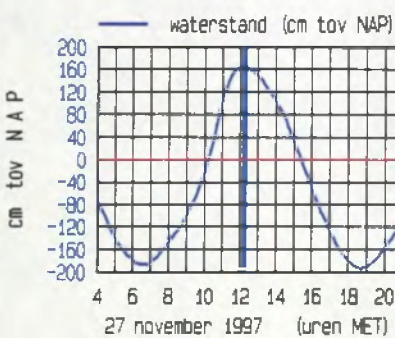
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

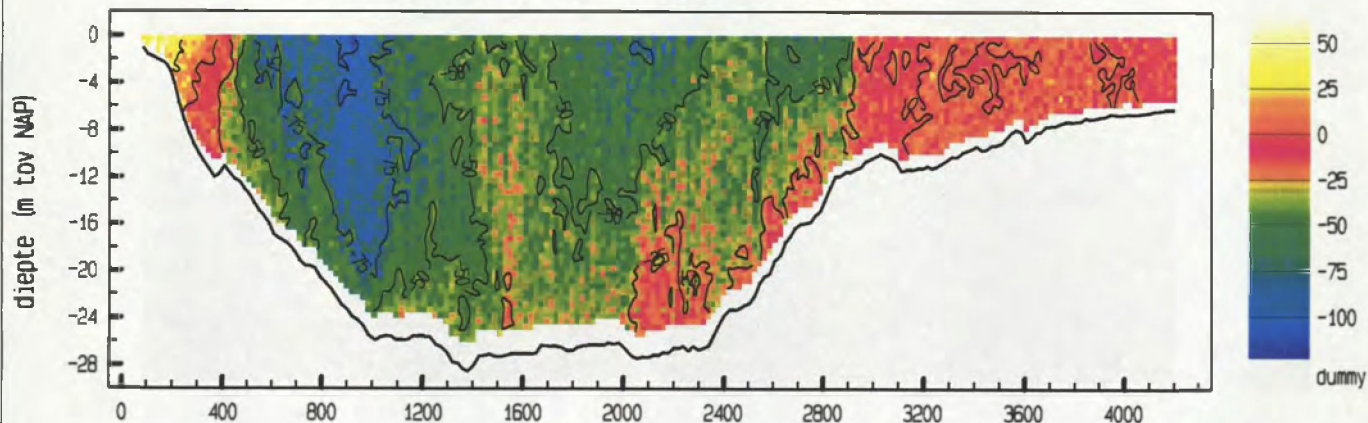


maximum gemiddelde stroom-  
 snelheid in de vertikaal

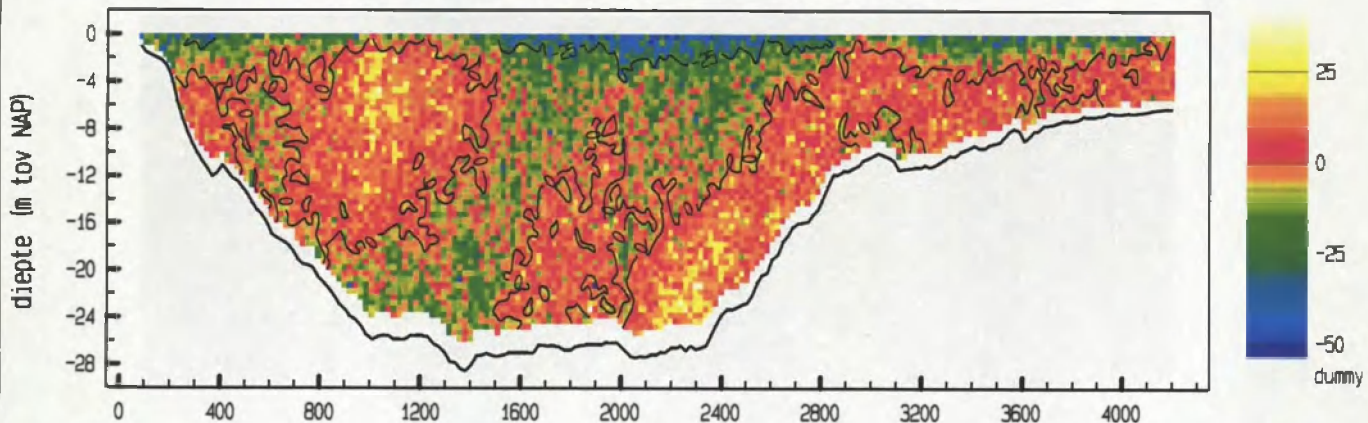
afstand uit nulpunt : 862 m  
 stroomsnelheid : 120 cm/sec  
 stroomrichting : 92°

doorstroomoppervlak : 78184 m<sup>2</sup>  
 raaidebiet : -50046 m<sup>3</sup>/sec

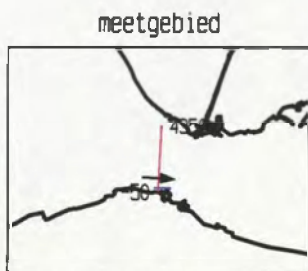
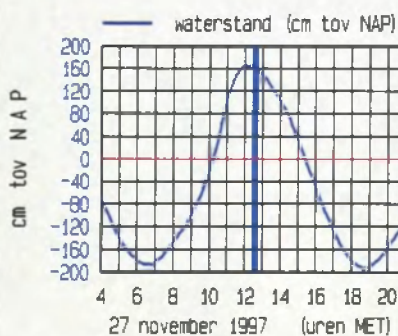
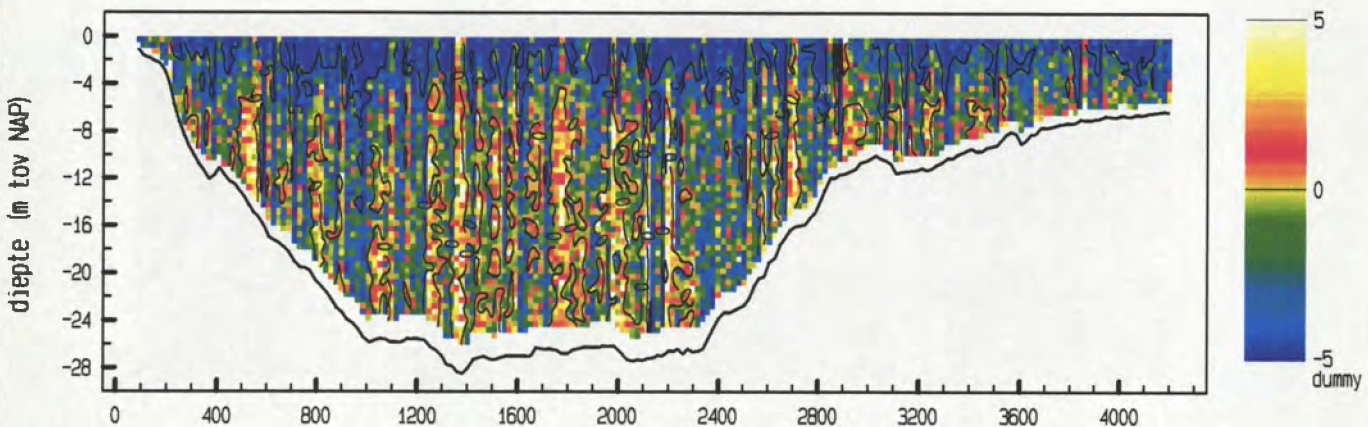
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

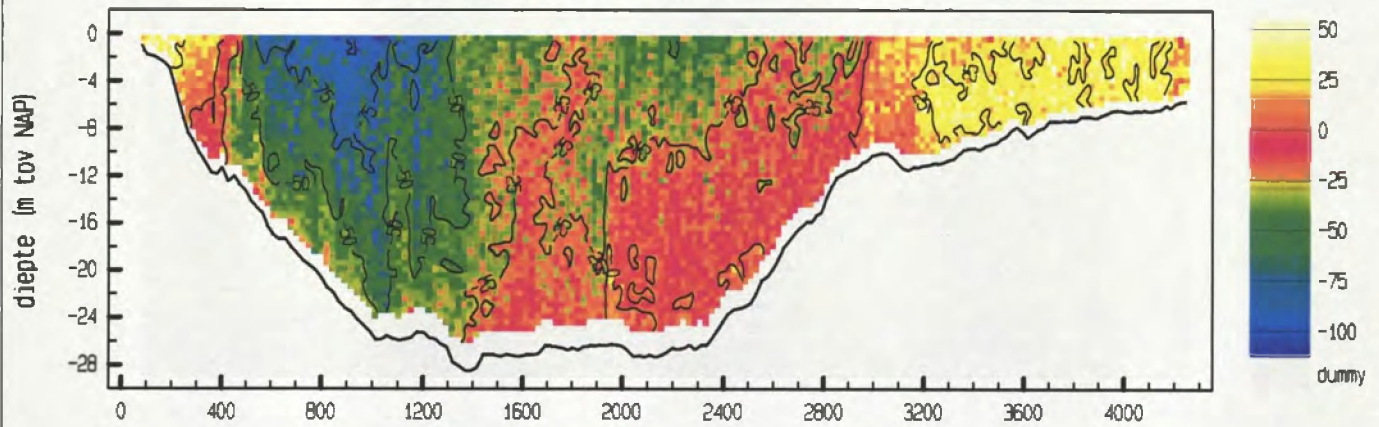
afstand uit nulpunt : 880 m  
 stroomsnelheid : 87 cm/sec  
 stroomrichting : 94°

doorstroomoppervlak : 77509 m<sup>2</sup>  
 raaidebiet : -30527 m<sup>3</sup>/sec

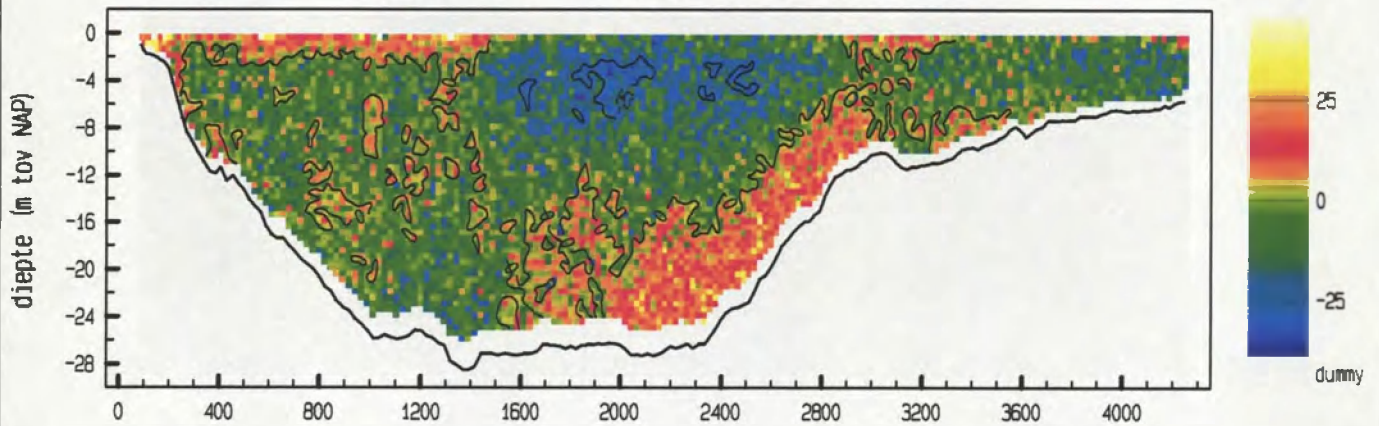
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da020a.val

tijd : 1243 - 1259

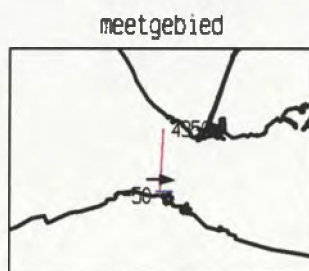
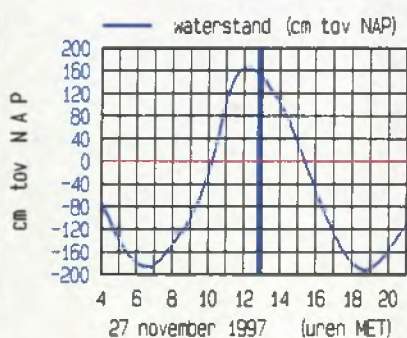
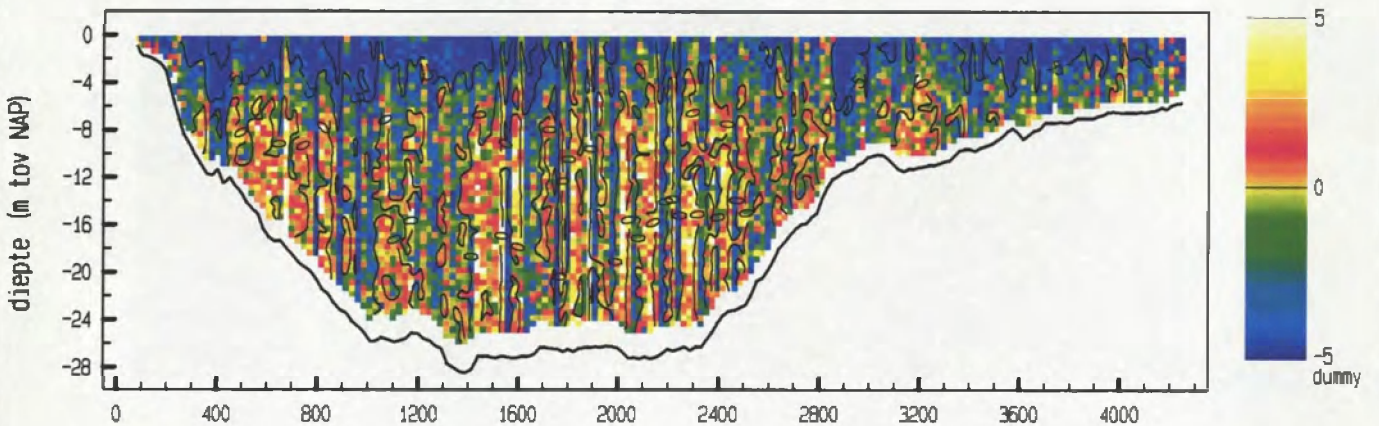
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1013 m

stroomsnelheid : 72 cm/sec

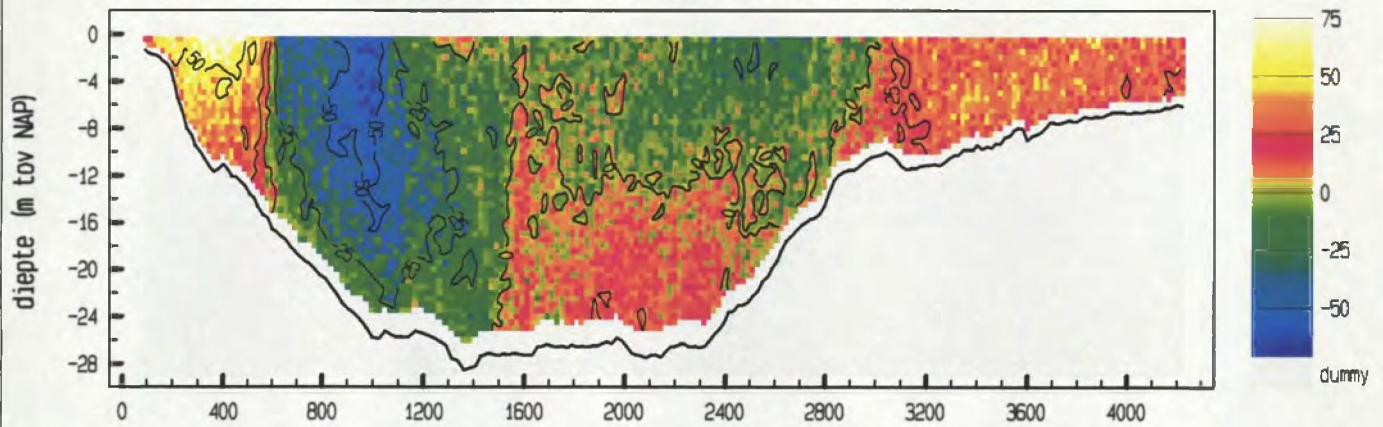
stroomrichting : 92 °

doorstroomoppervlak : 77478 m<sup>2</sup>

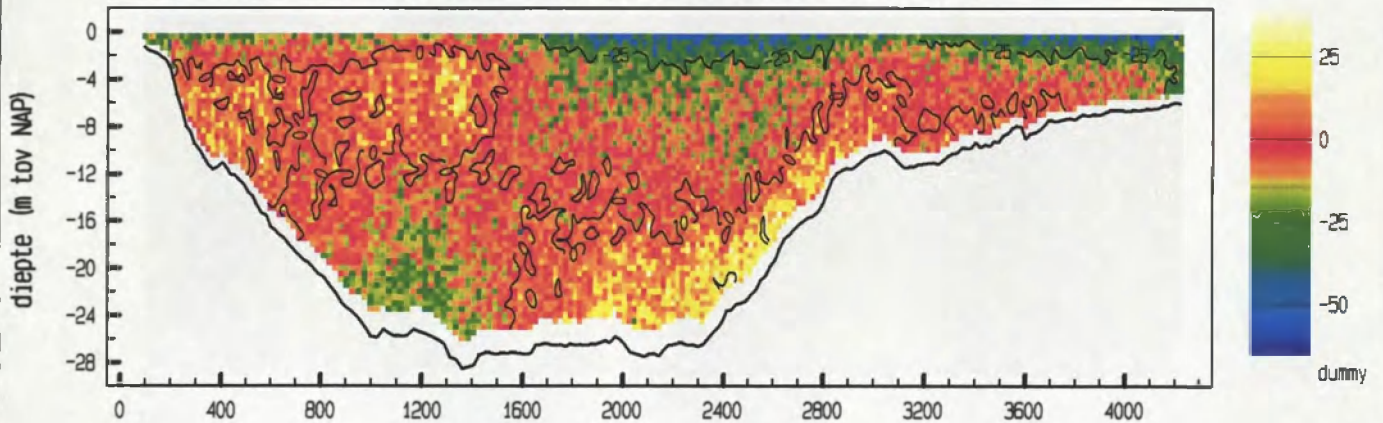
raaidebiet : -17813 m<sup>3</sup>/sec

adcpfile : 11da020a.val

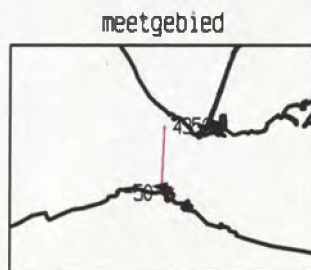
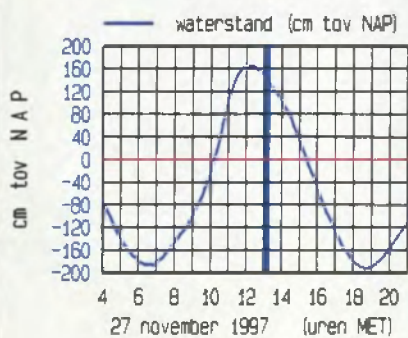
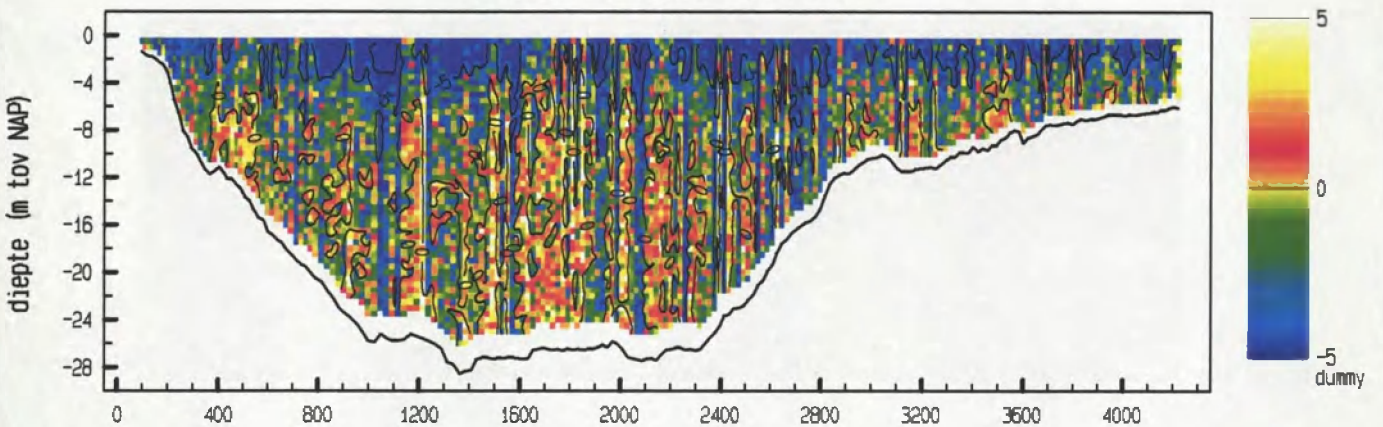
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



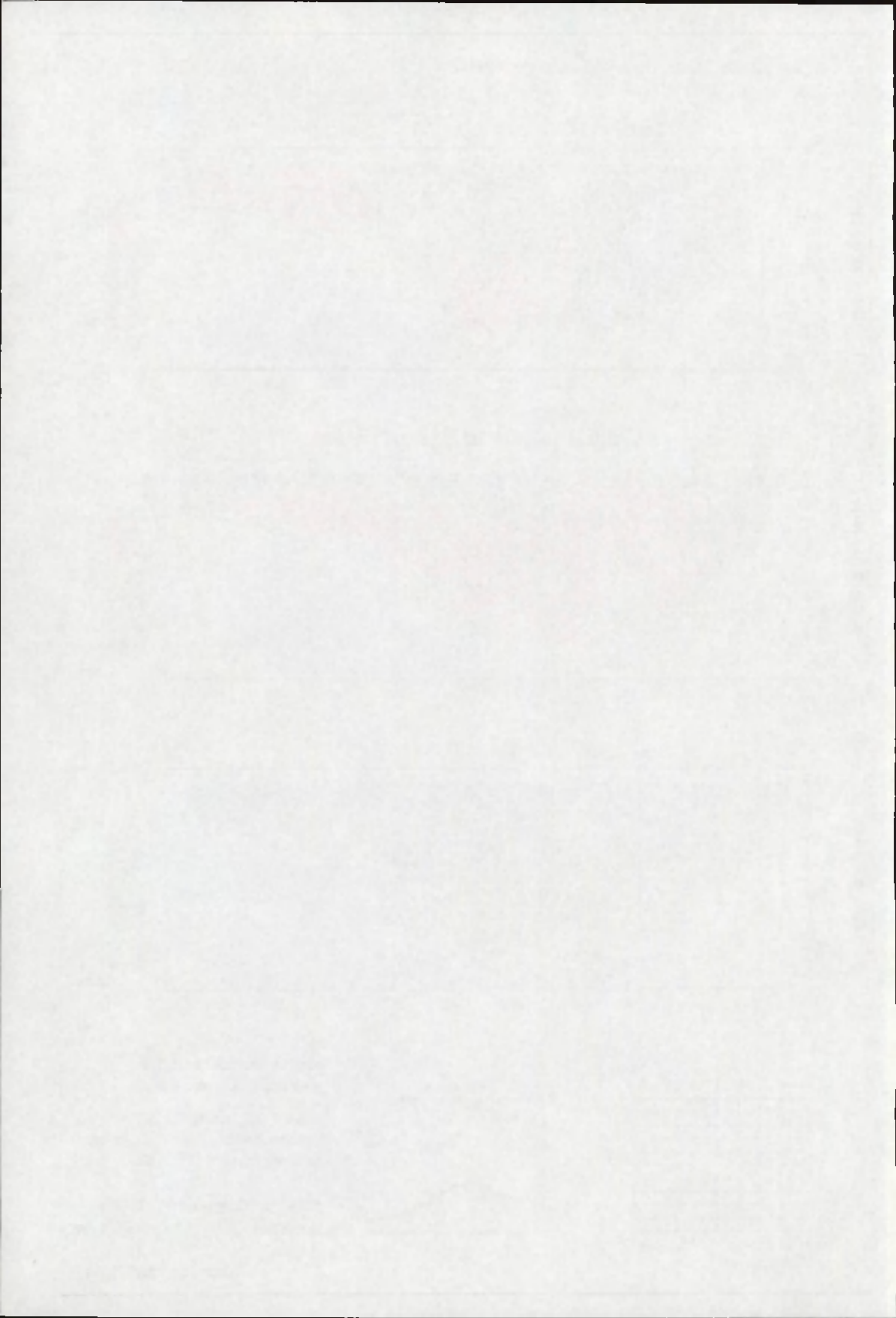
vertikale snelheid (cm/sec)



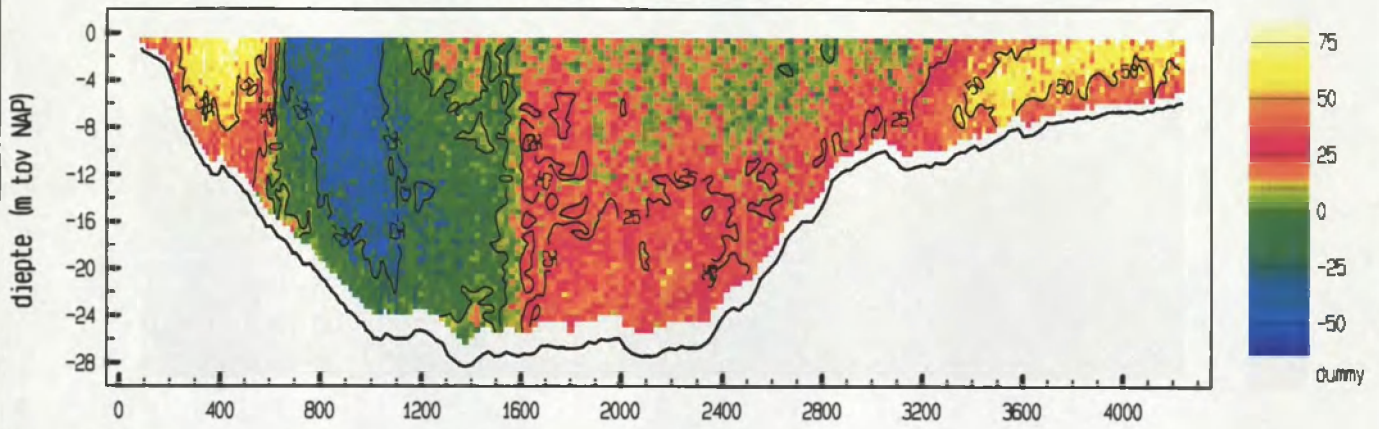
maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 328 m  
 stroomsnelheid : 51 cm/sec  
 stroomrichting : 274 °

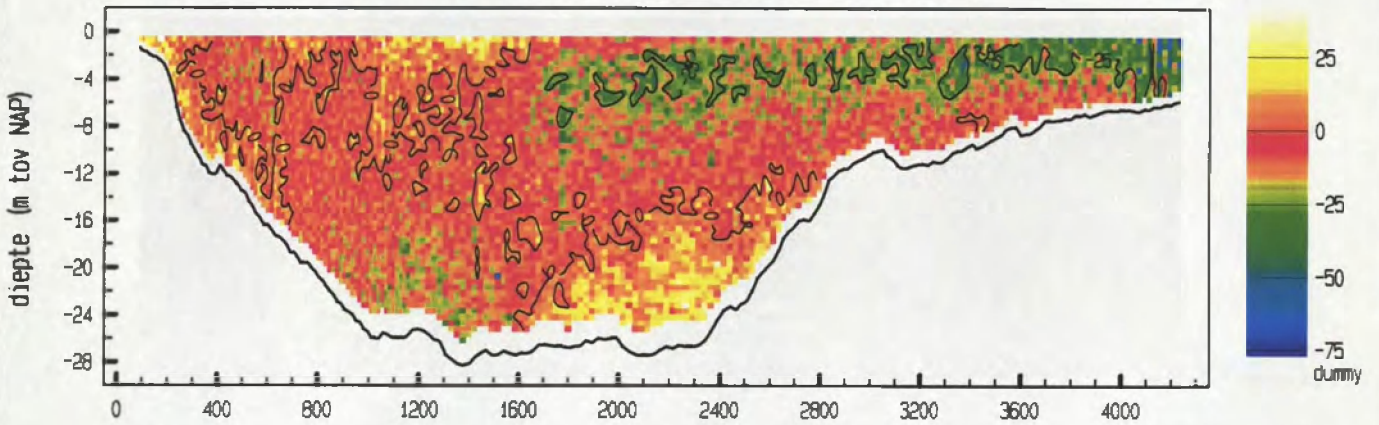
doorstroomoppervlak : 76822 m<sup>2</sup>  
 raaidebiet : -370 m<sup>3</sup>/sec



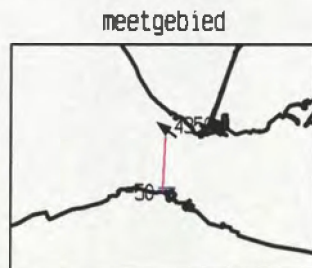
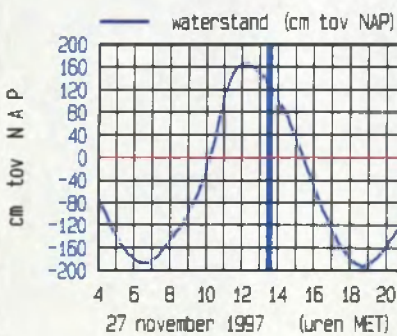
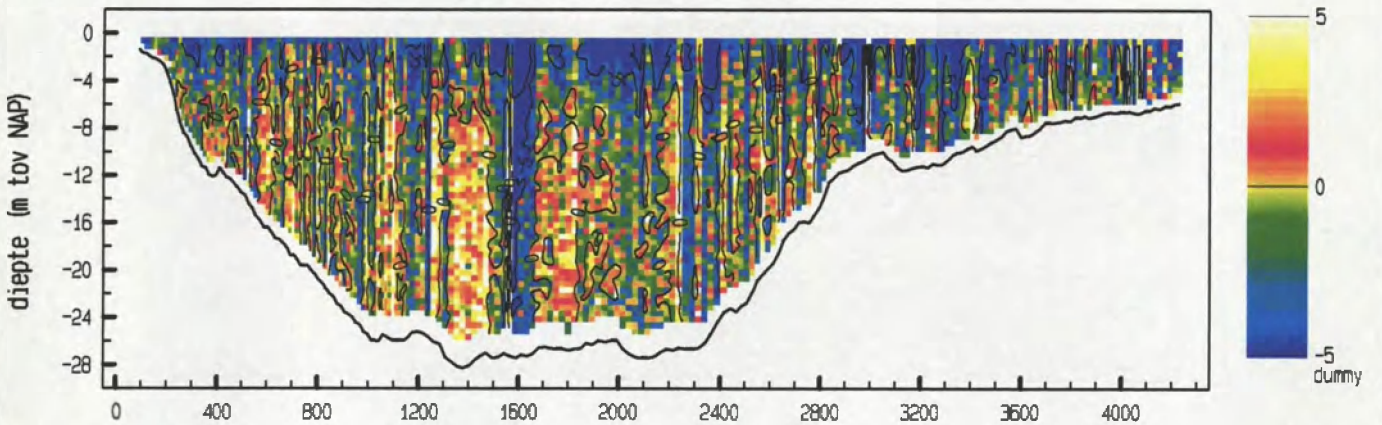
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

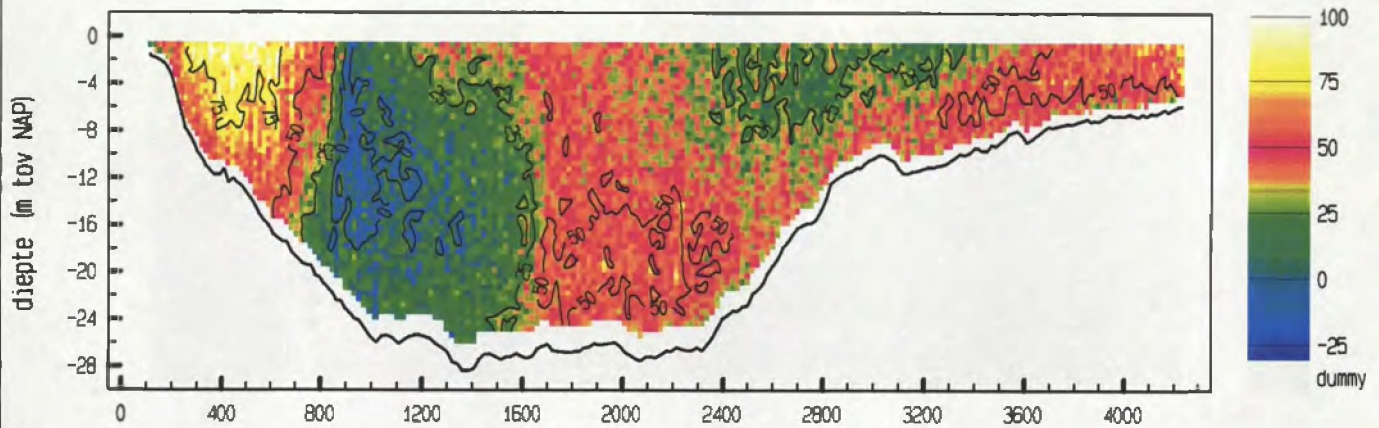


maximum gemiddelde stroom-  
 snelheid in de verticale

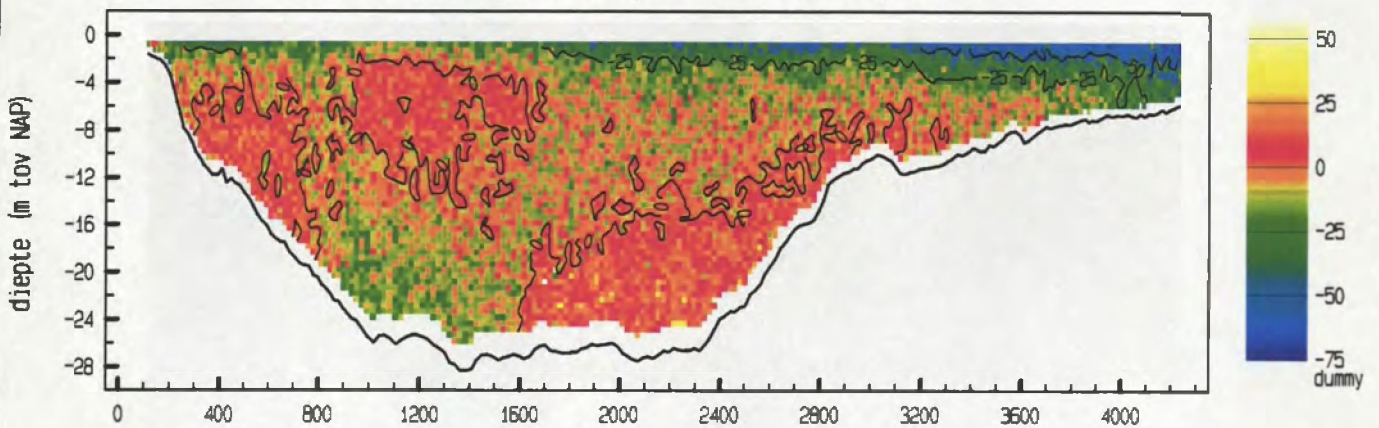
afstand uit nulpunt : 4069 m  
 stroomsnelheid : 66 cm/sec  
 stroomrichting : 307 °

doorstroomoppervlak : 76266 m<sup>2</sup>  
 raaidebiet : 10423 m<sup>3</sup>/sec

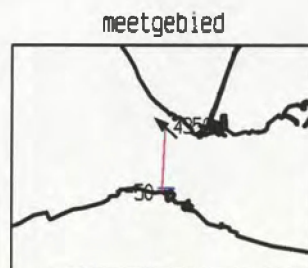
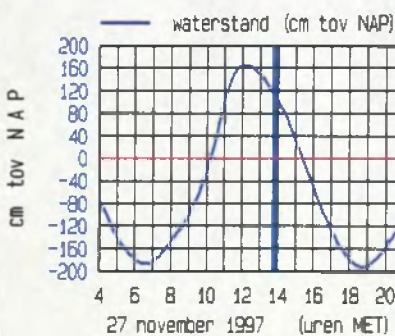
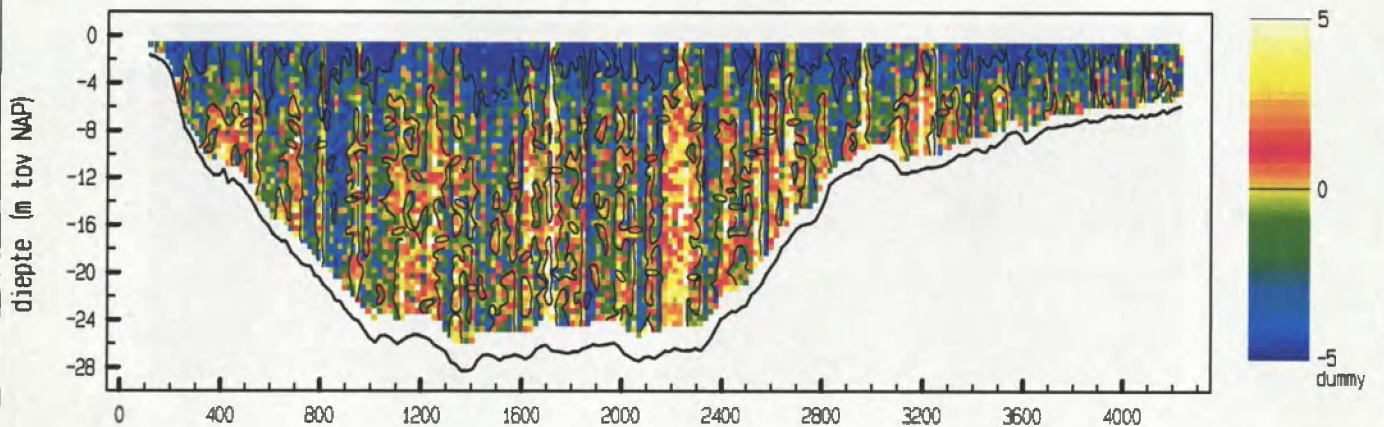
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 4229 m

stroomsnelheid : 81 cm/sec

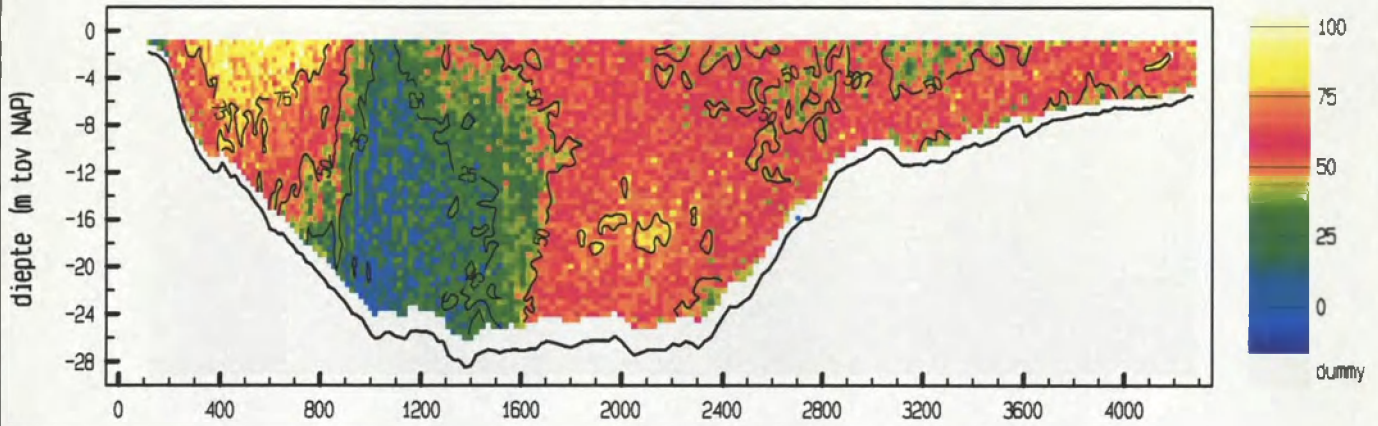
stroomrichting : 311 °

doorstroomoppervlak : 75498 m<sup>2</sup>

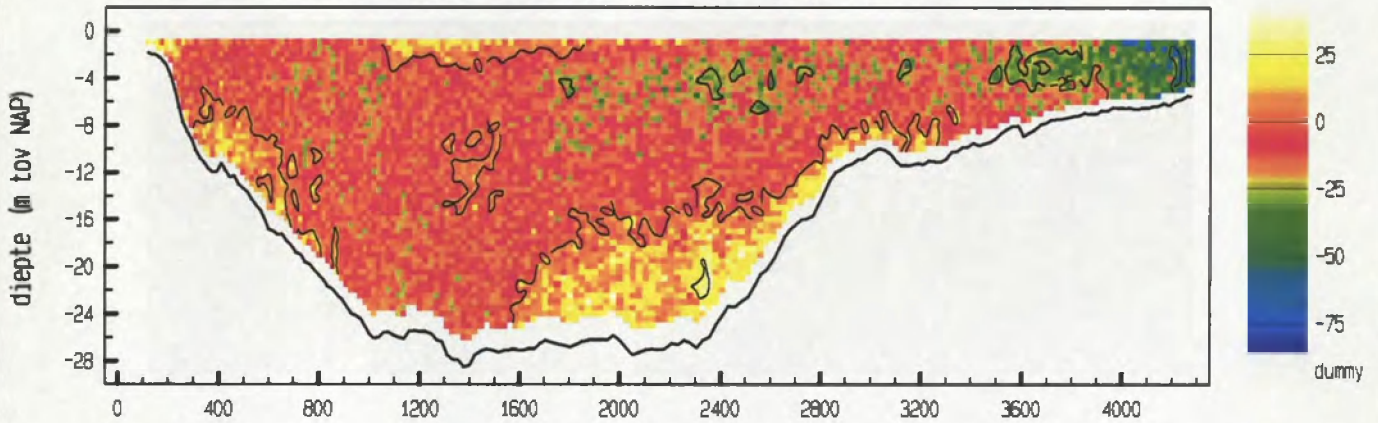
raaidebiet : 25607 m<sup>3</sup>/sec



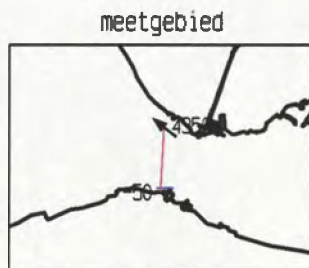
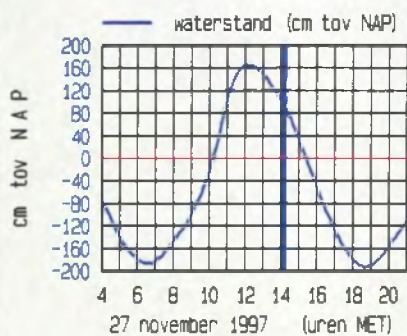
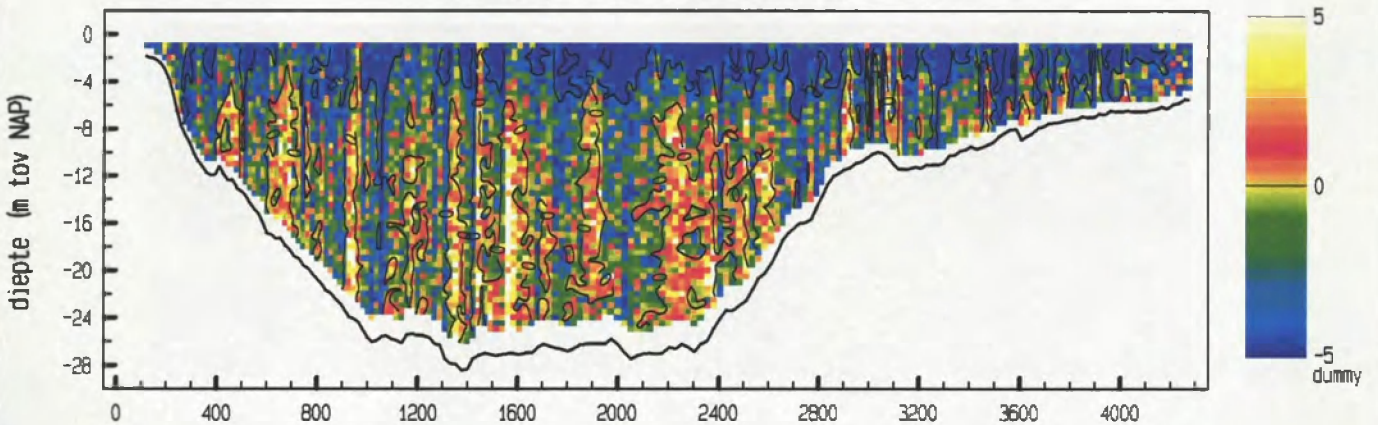
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



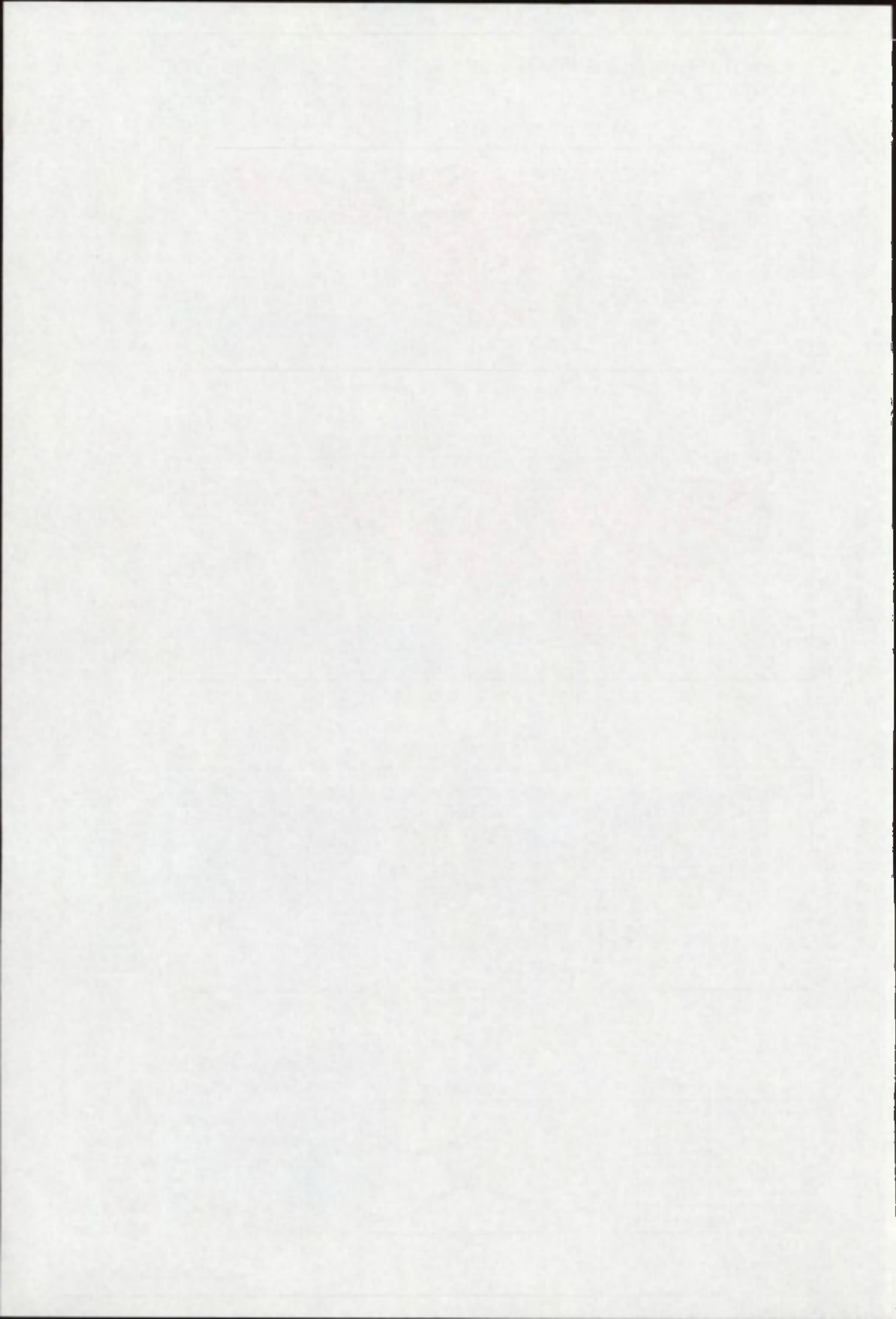
vertikale snelheid (cm/sec)



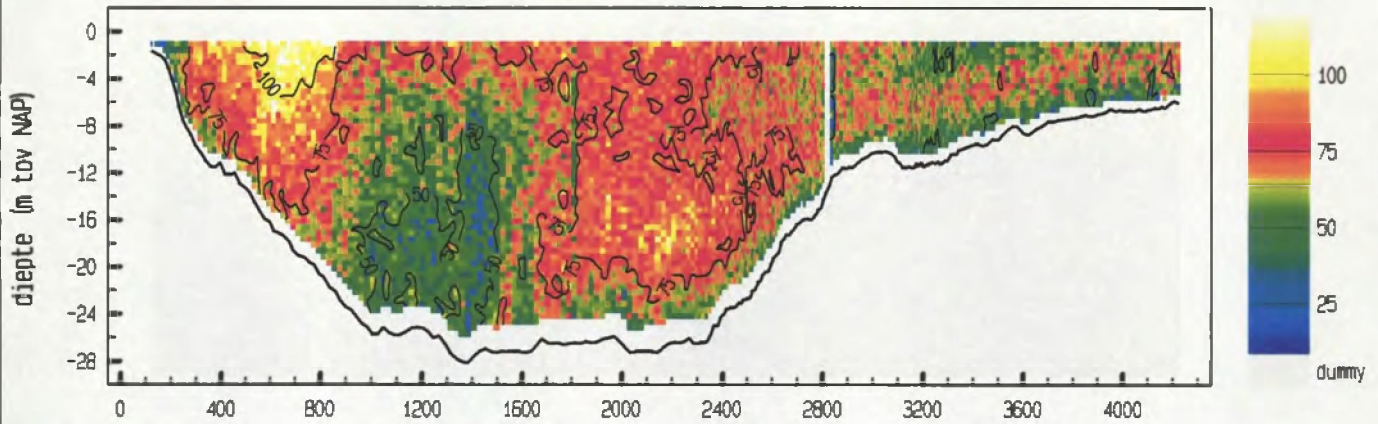
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4234 m  
 stroomsnelheid : 80 cm/sec  
 stroomrichting : 308 °

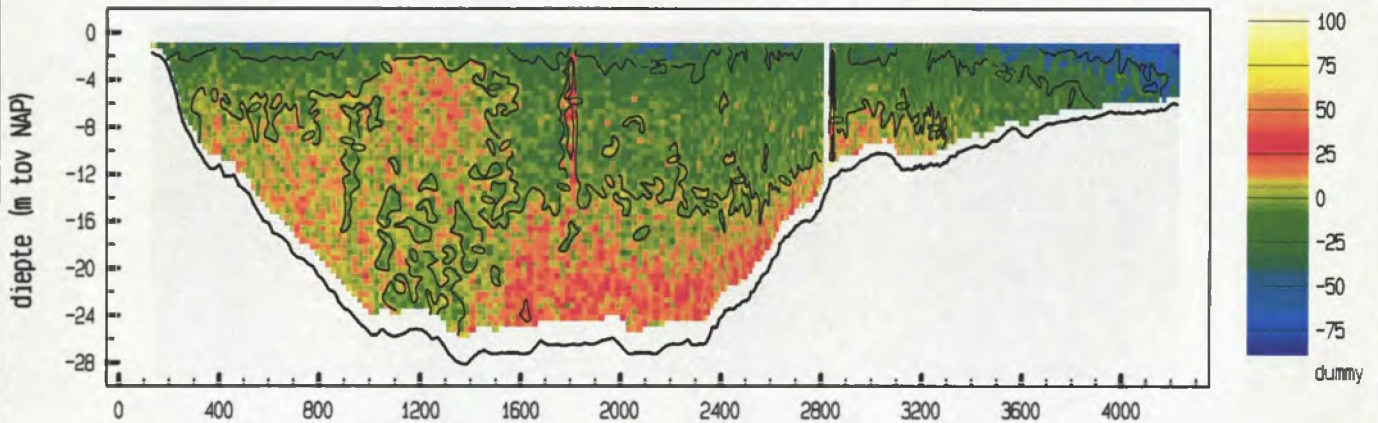
doorstroomoppervlak : 75043 m<sup>2</sup>  
 raaidebiet : 35627 m<sup>3</sup>/sec



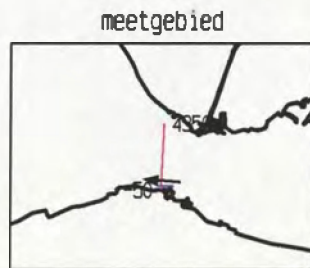
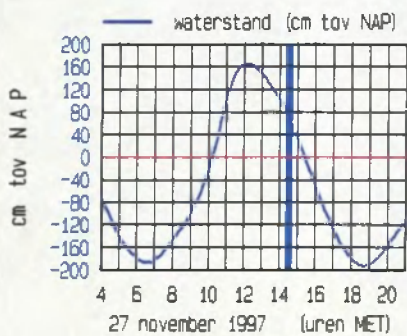
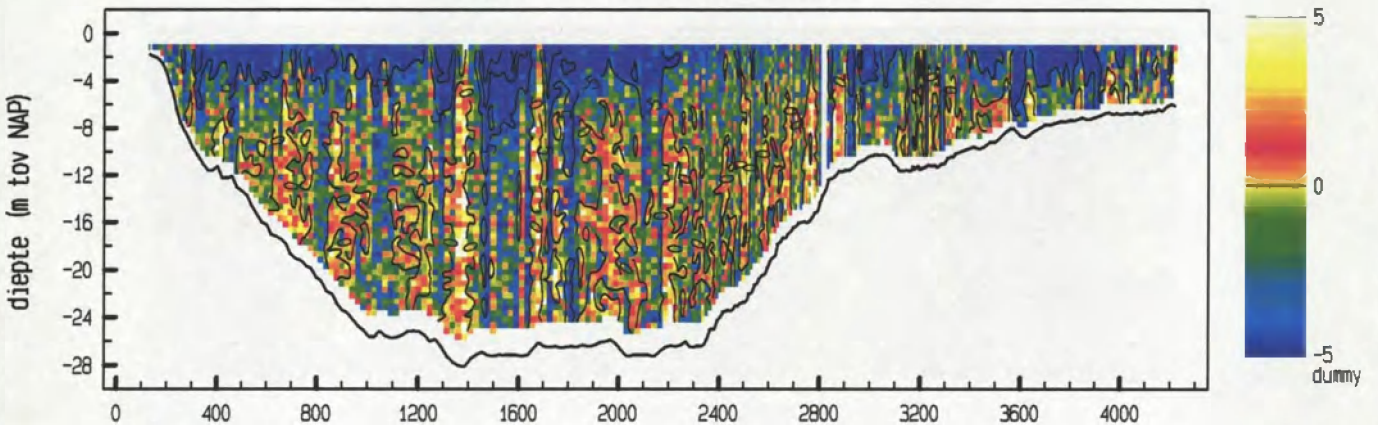
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

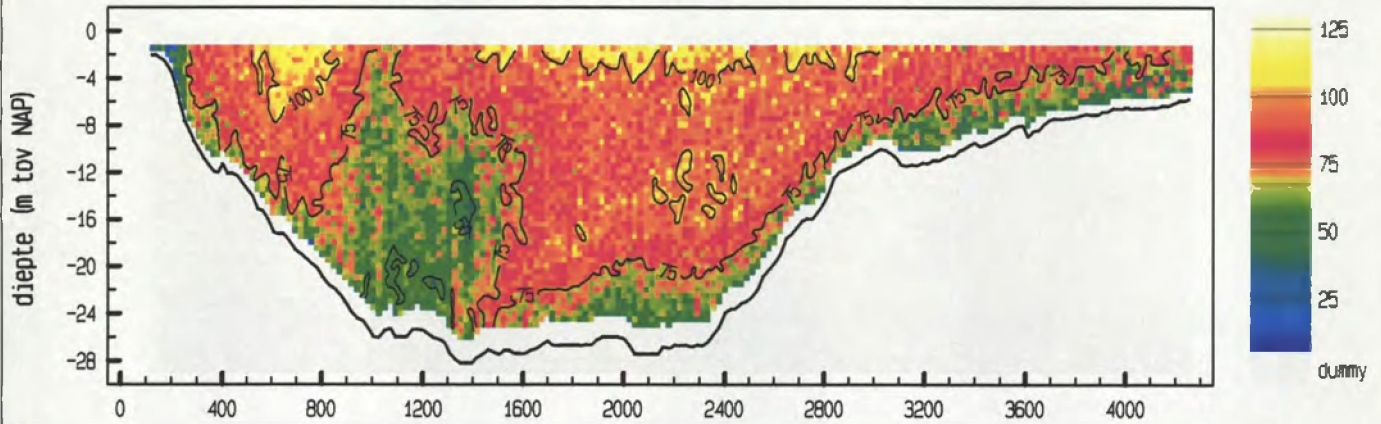


maximum gemiddelde stroom-  
 snelheid in de vertikaal

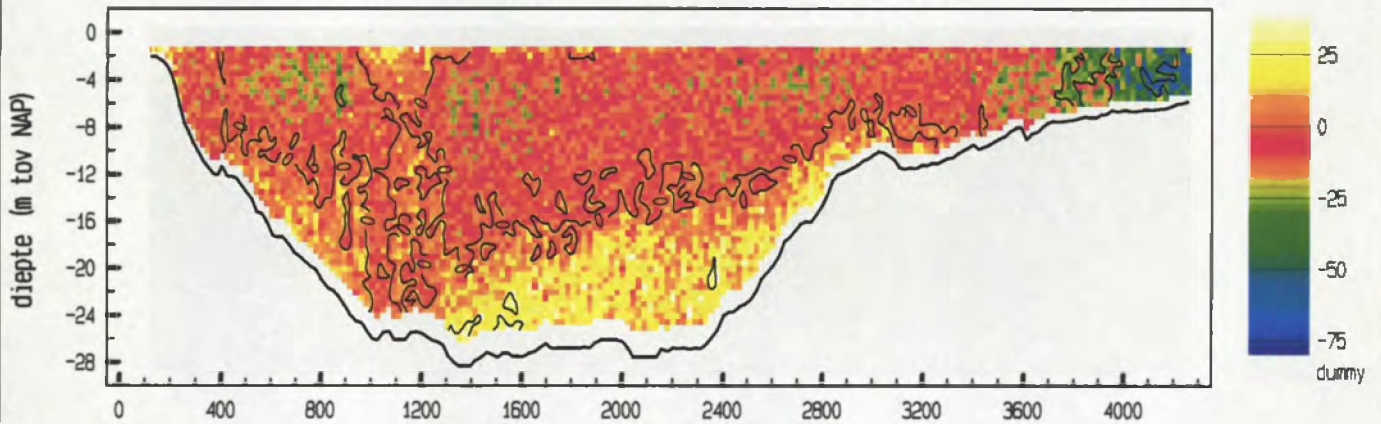
afstand uit nulpunt : 579 m  
 stroomsnelheid : 97 cm/sec  
 stroomrichting : 275 °

doorstroomoppervlak : 73847 m<sup>2</sup>  
 raaidebiet : 48783 m<sup>3</sup>/sec

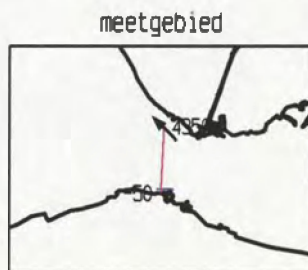
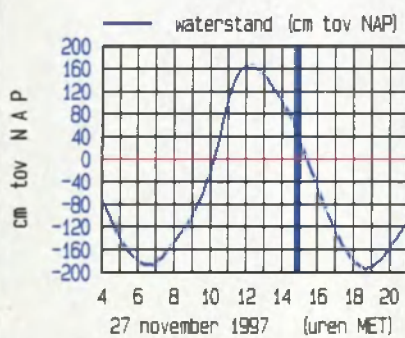
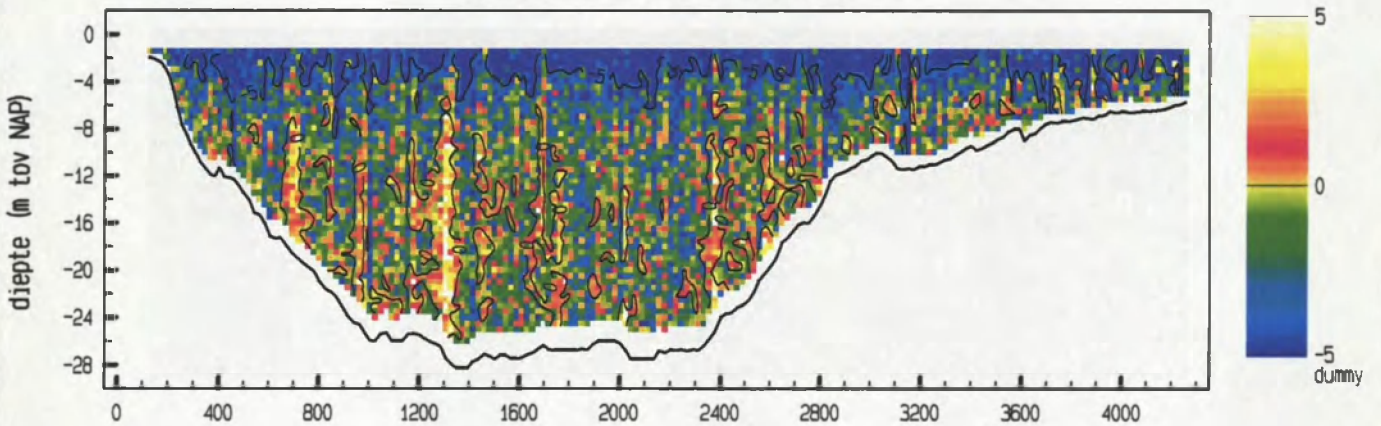
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4234 m

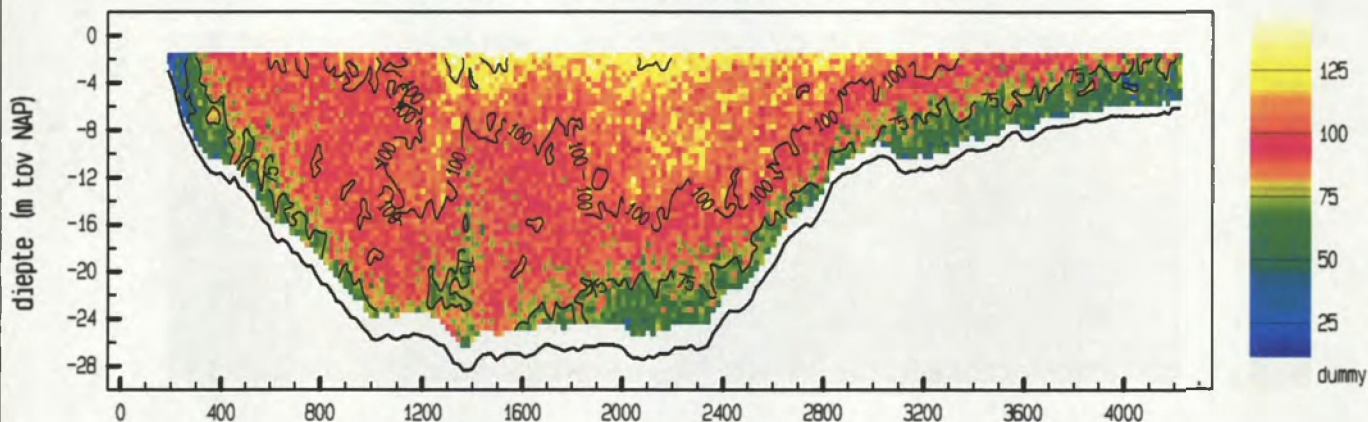
stroomsnelheid : 92 cm/sec

stroomrichting : 315 °

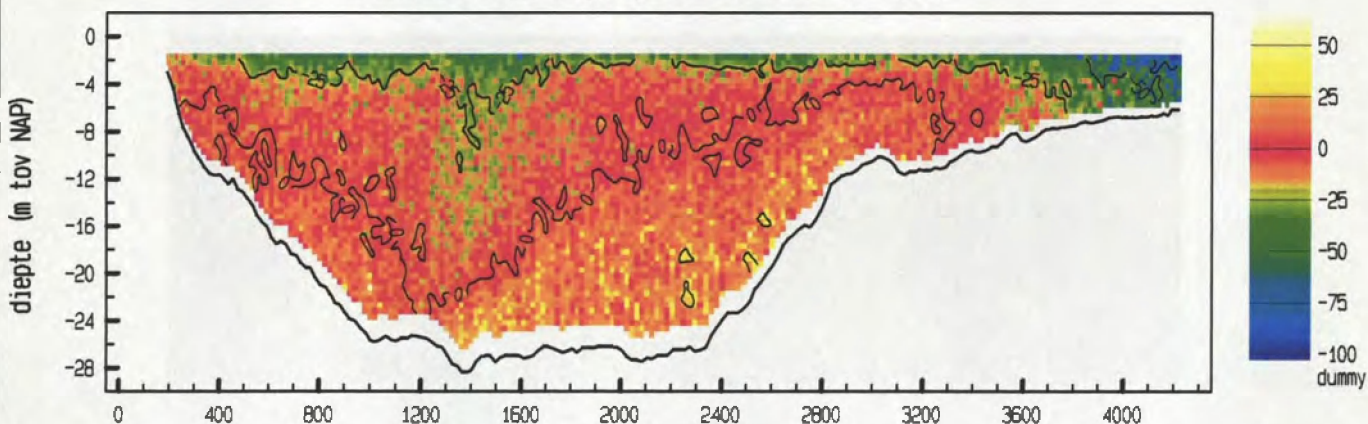
doorstroomoppervlak : 73139 m<sup>2</sup>

raaidebiet : 56657 m<sup>3</sup>/sec

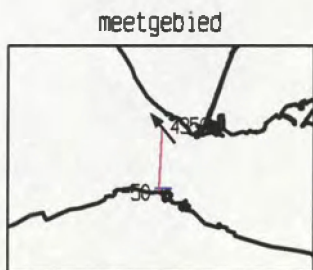
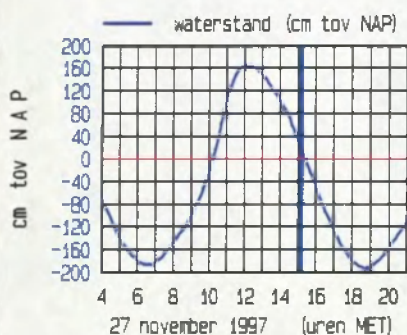
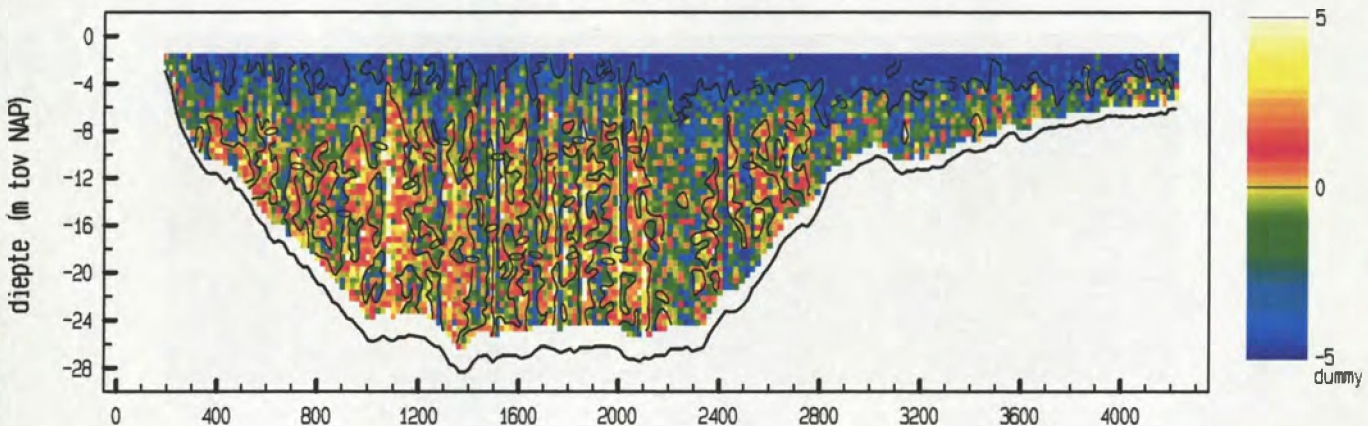
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



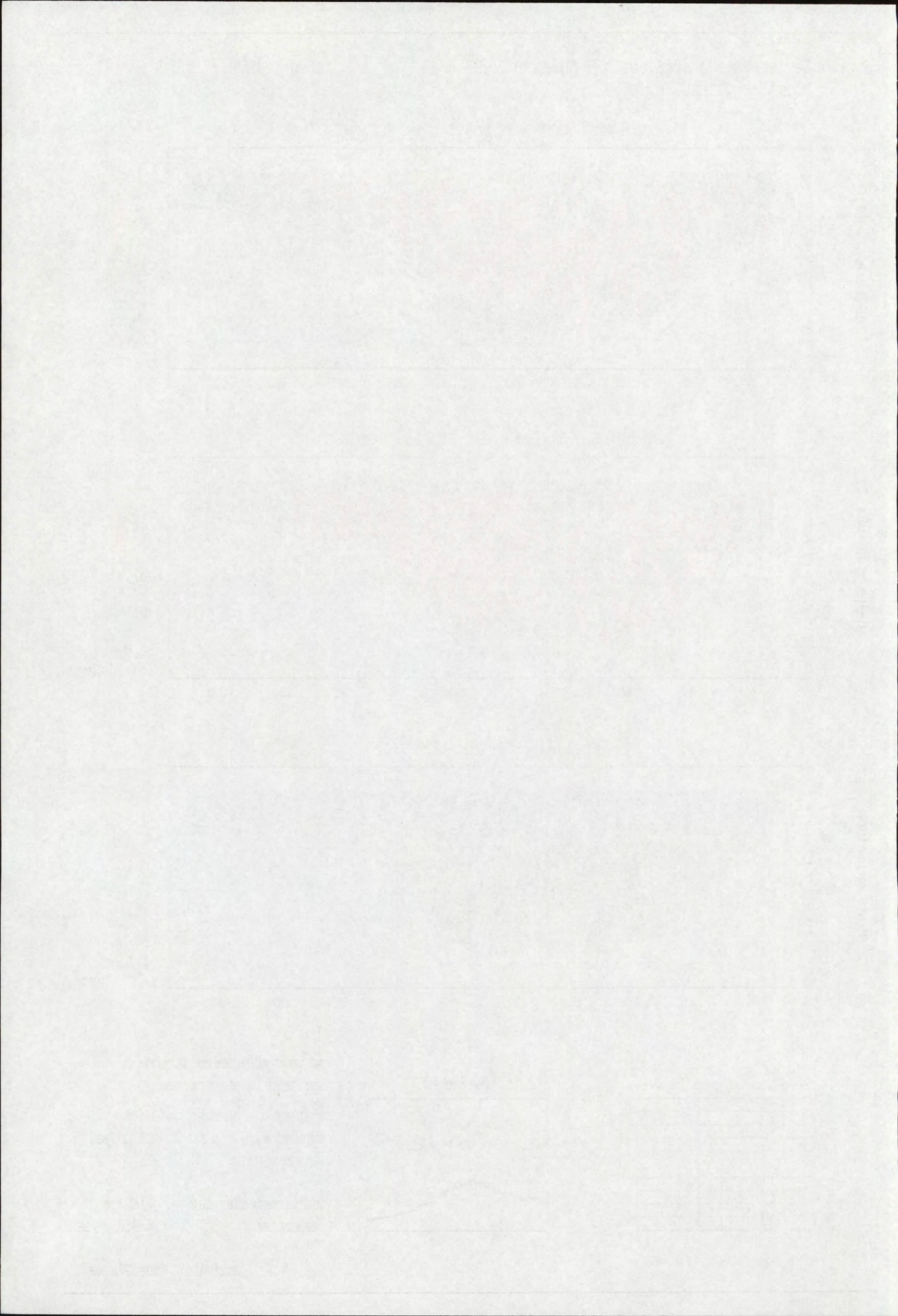
vertikale snelheid (cm/sec)



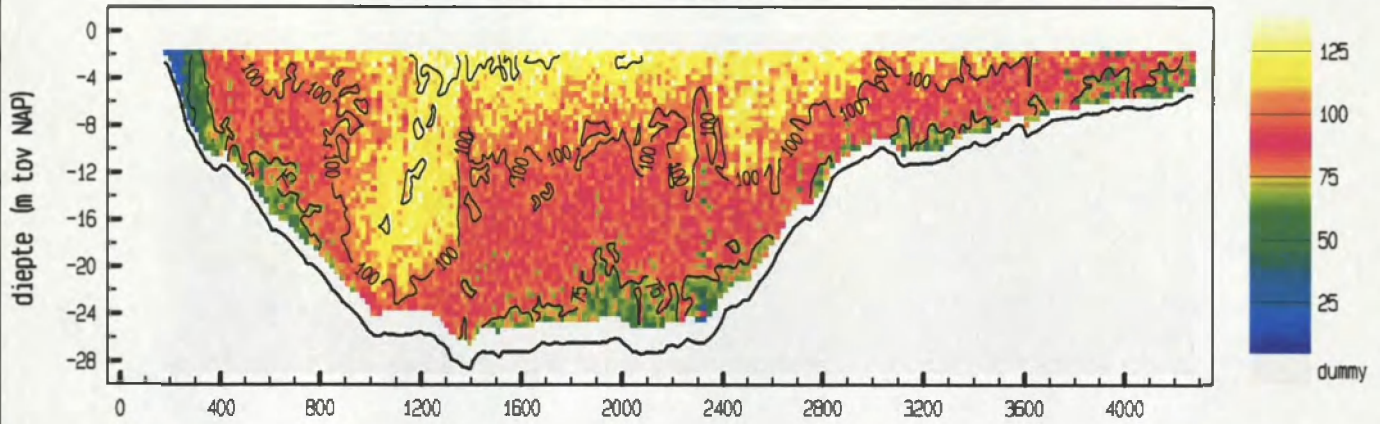
maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 4205 m  
 stroomsnelheid : 103 cm/sec  
 stroomrichting : 321 °

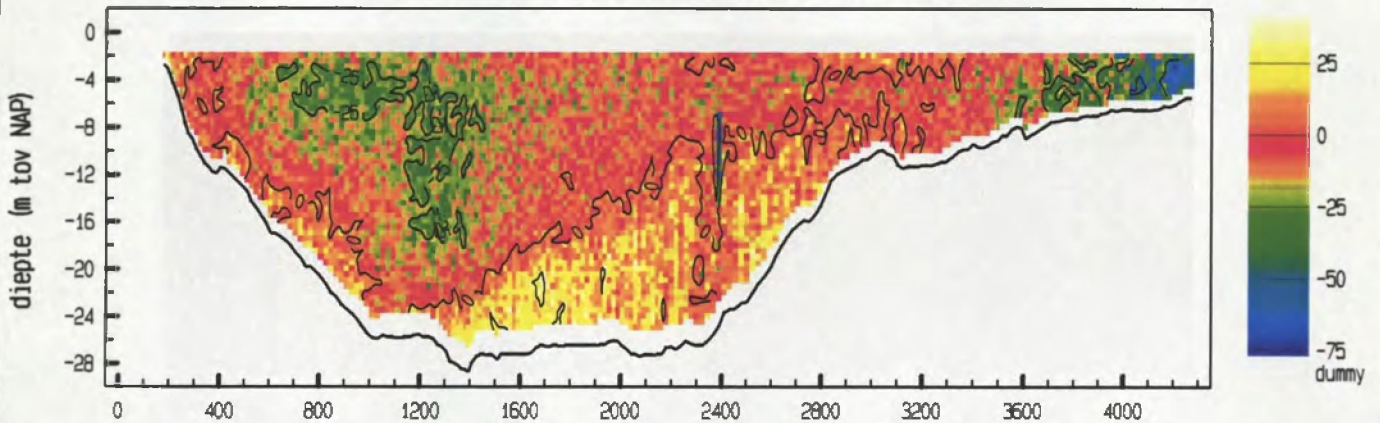
doorstroomoppervlak : 71637 m<sup>2</sup>  
 raaidebiet : 64013 m<sup>3</sup>/sec



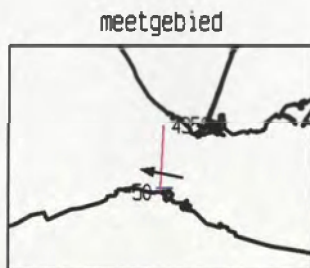
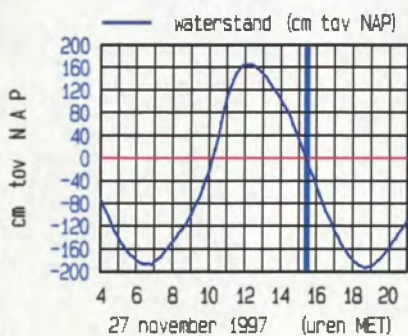
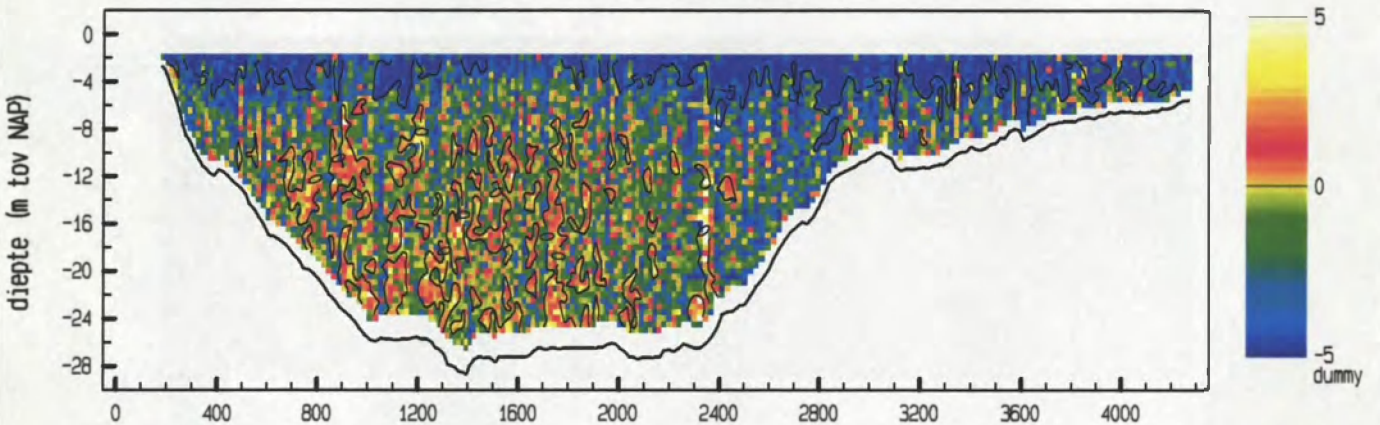
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1197 m

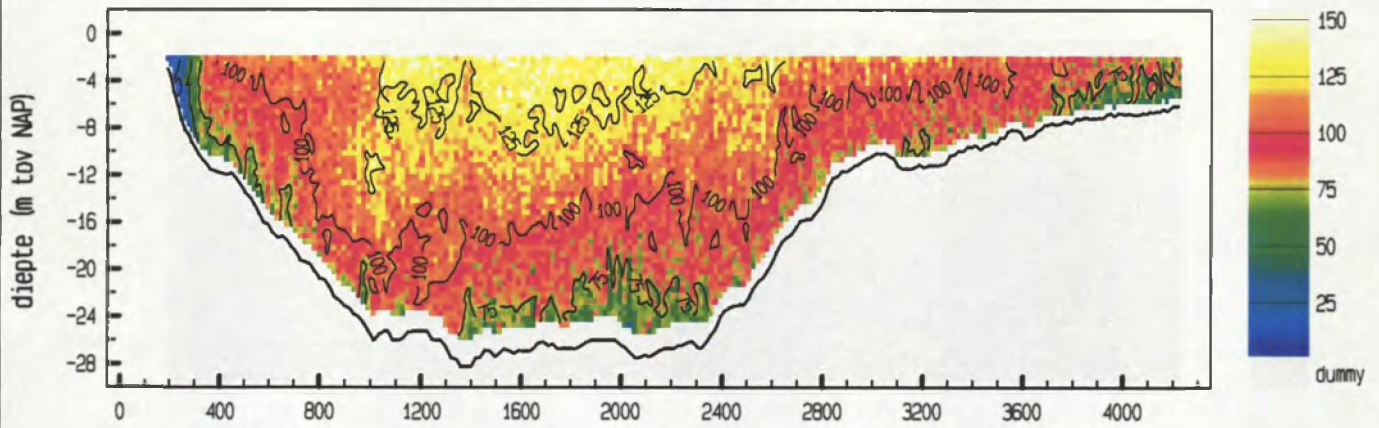
stroomsnelheid : 118 cm/sec

stroomrichting : 281 °

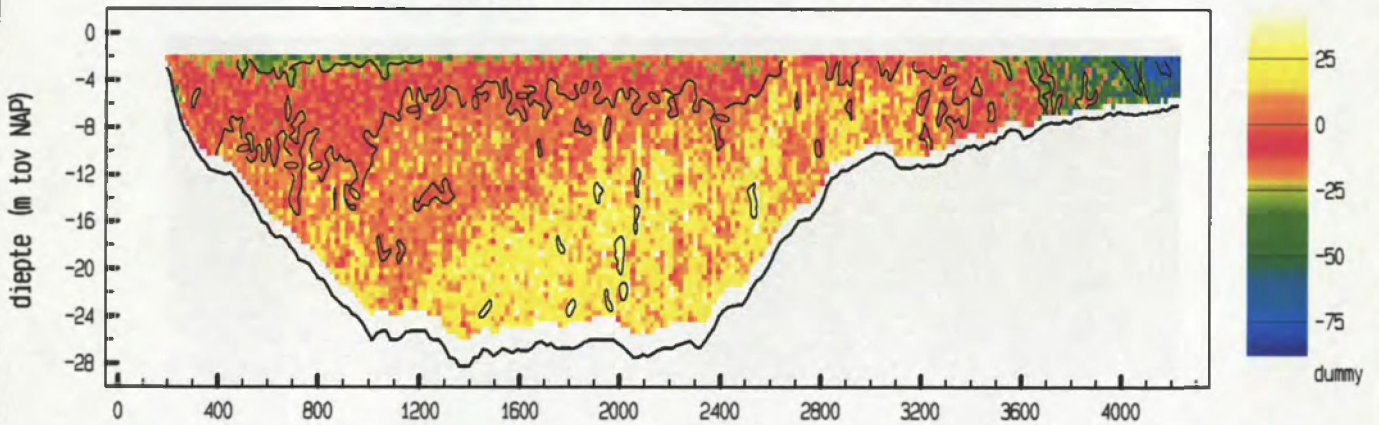
doorstroomoppervlak : 70941 m<sup>2</sup>

raaidebiet : 65755 m<sup>3</sup>/sec

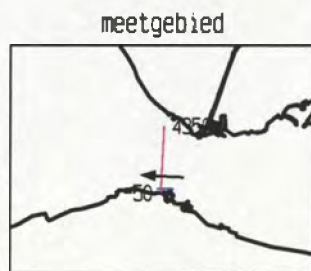
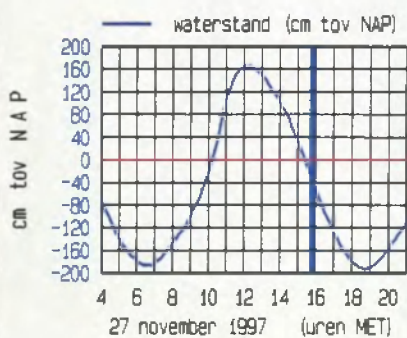
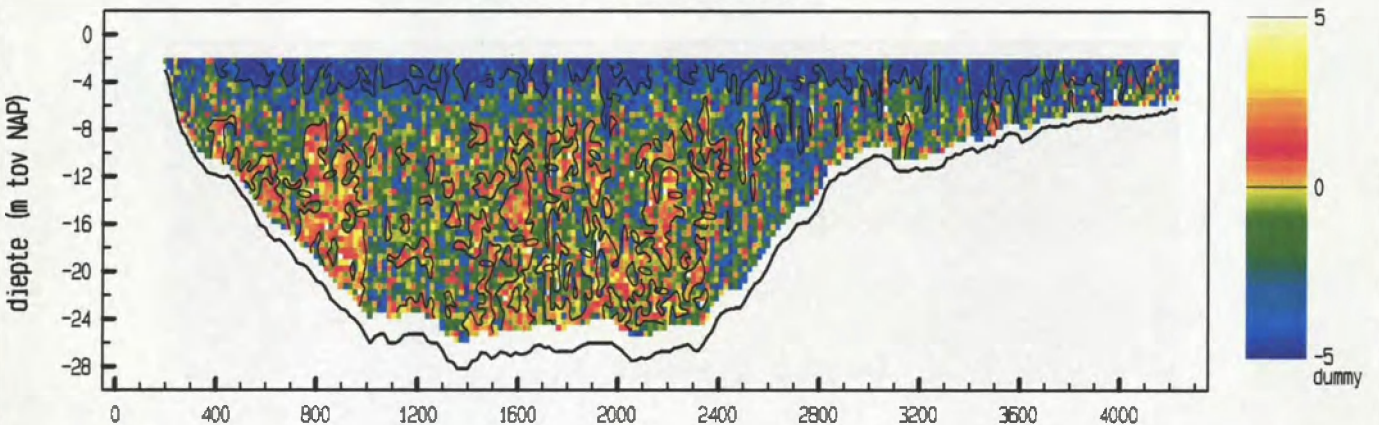
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

afstand uit nulpunt : 1070 m

stroomsnelheid : 113 cm/sec

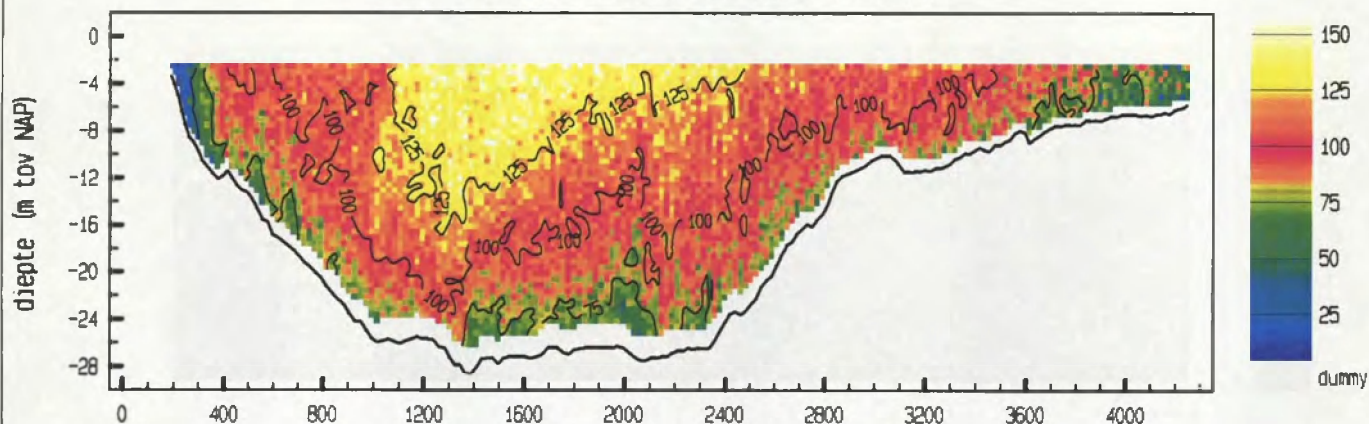
stroomrichting : 273 °

doorstroomoppervlak : 69448 m<sup>2</sup>

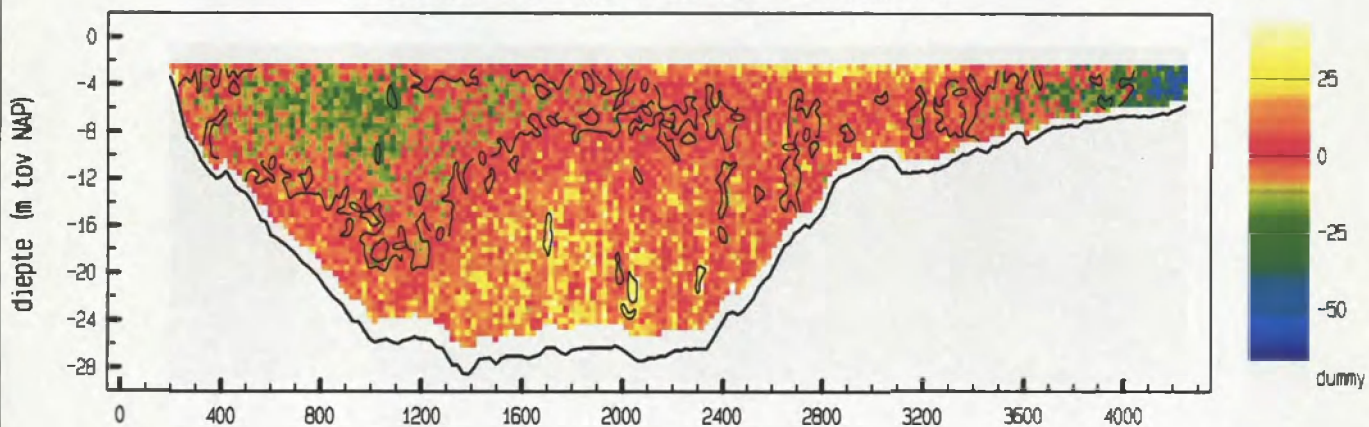
raaidebiet : 67786 m<sup>3</sup>/sec



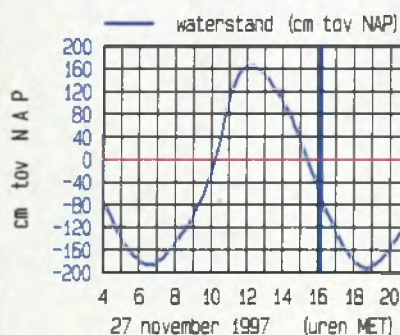
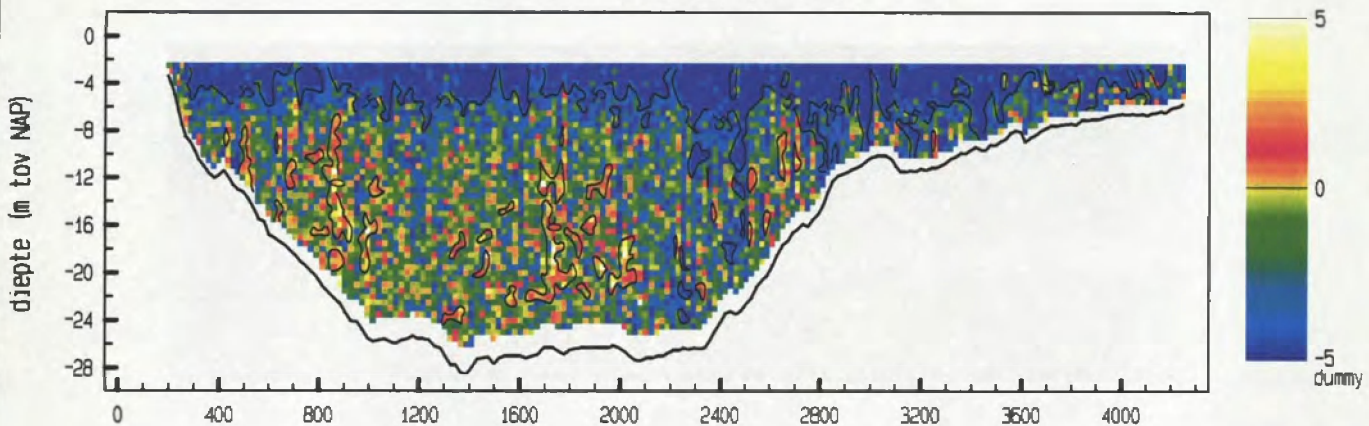
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied



maximum gemiddelde stroom-  
 snelheid in de vertikaal

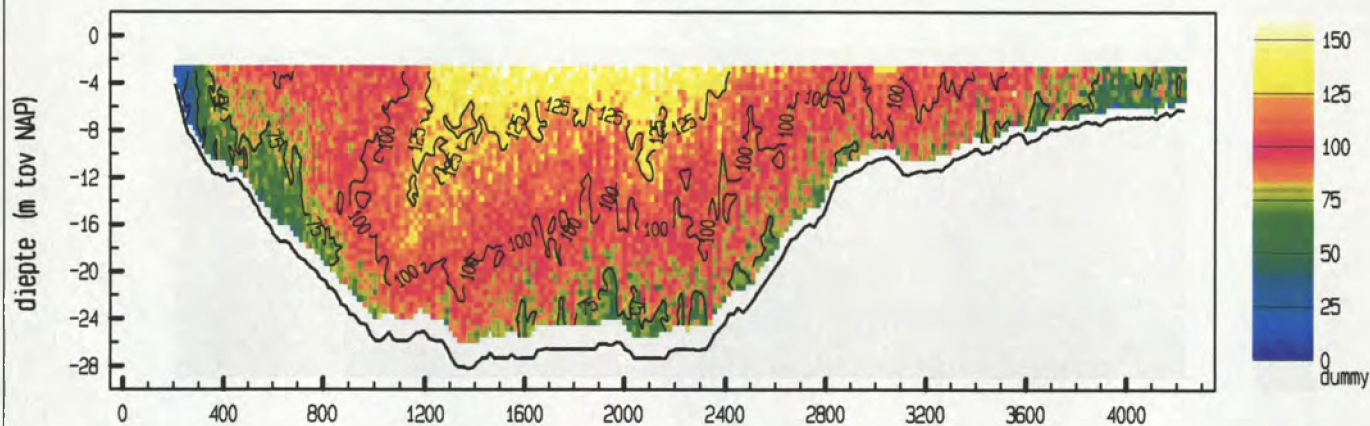
afstand uit nulpunt : 1345 m  
 stroomsnelheid : 119 cm/sec  
 stroomrichting : 270°

doorstroomoppervlak : 68431 m<sup>2</sup>  
 raaidebiet : 66638 m<sup>3</sup>/sec

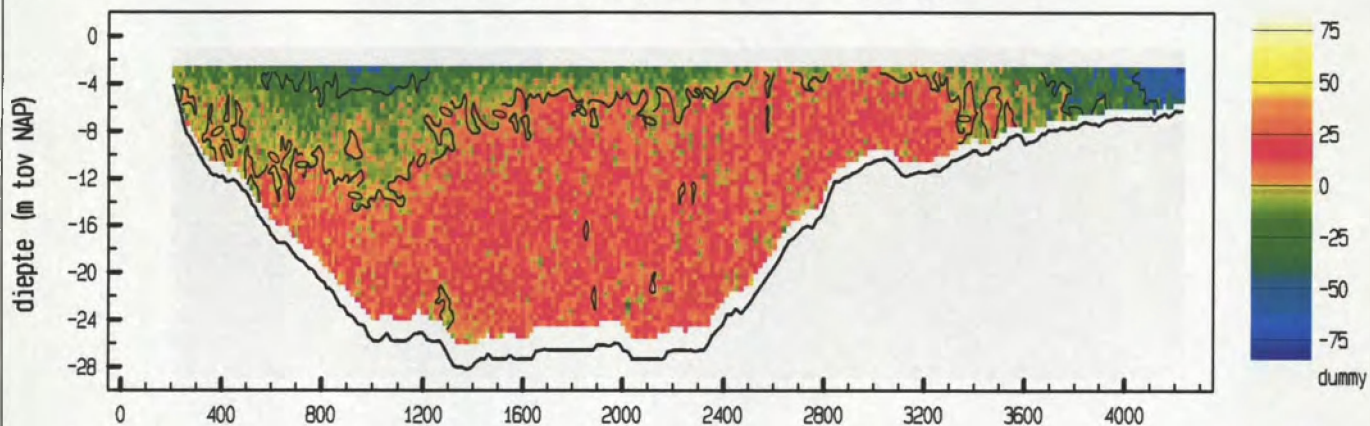
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da031a.val

tijd : 1617 - 1638

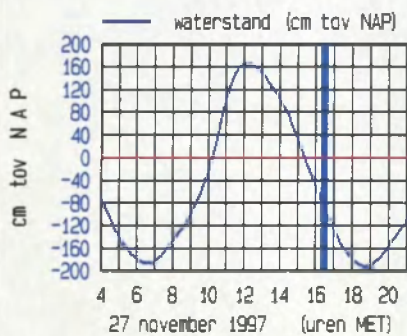
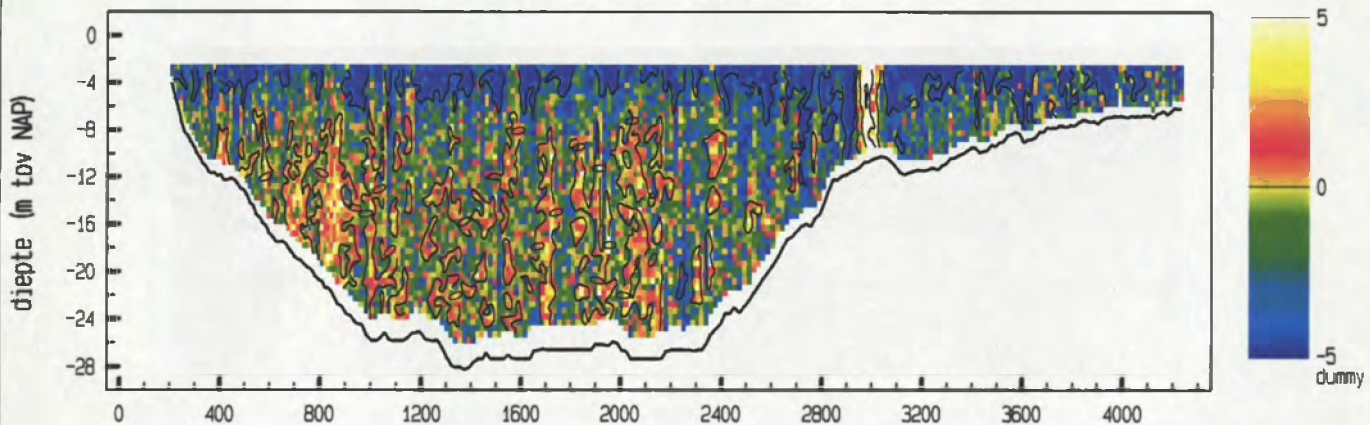
snelheid loodrecht op de raai (cm/sec)



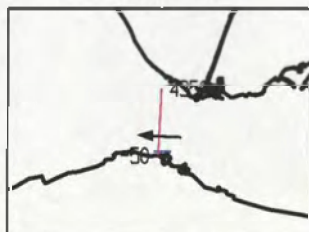
snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied

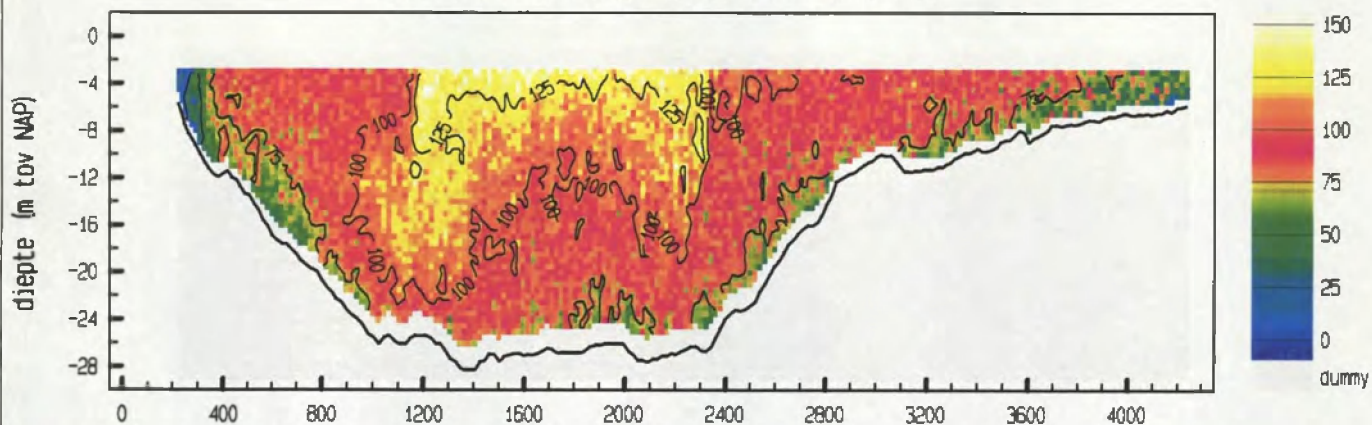


maximum gemiddelde stroom-  
 snelheid in de vertikaal

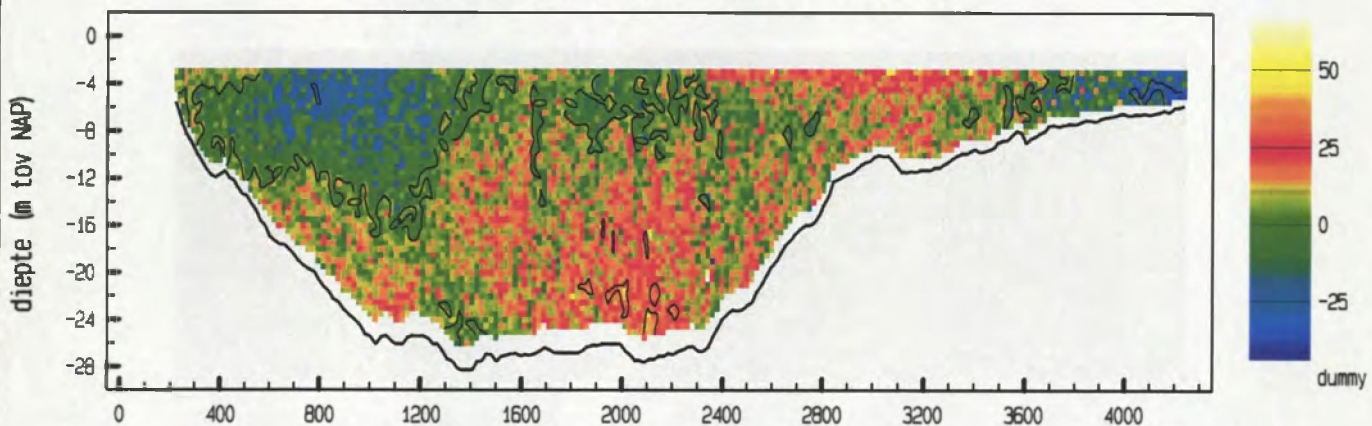
afstand uit nulpunt : 1232 m  
 stroomsnelheid : 113 cm/sec  
 stroomrichting : 274 °

doorstroomoppervlak : 67545 m<sup>2</sup>  
 raai-debiet : 64166 m<sup>3</sup>/sec

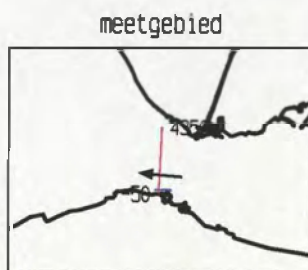
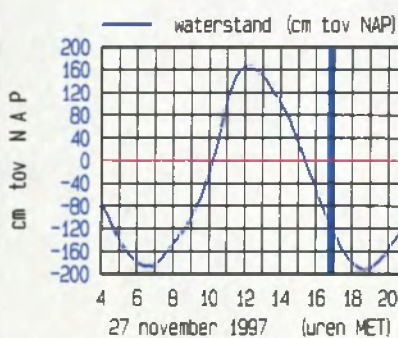
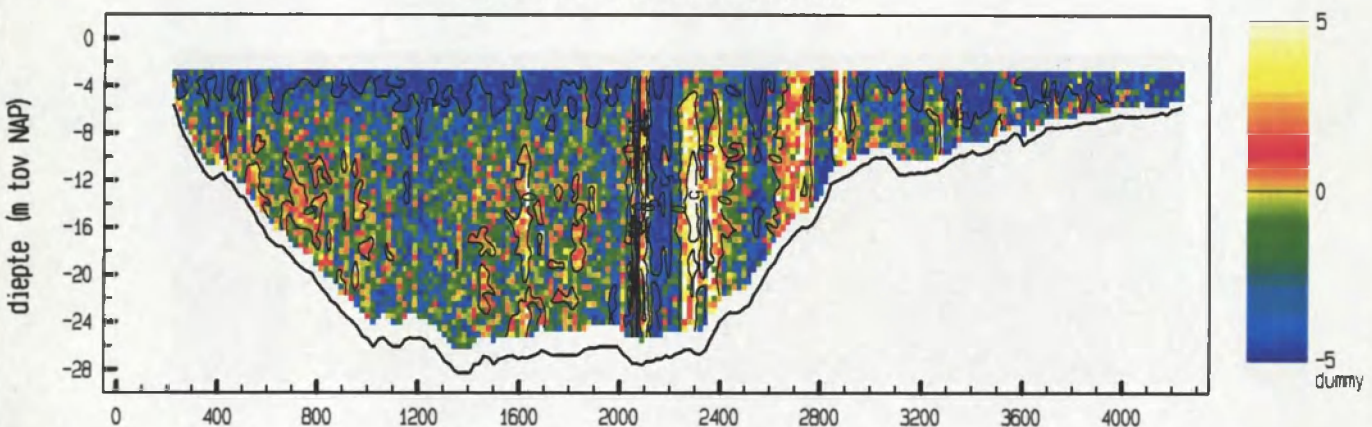
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

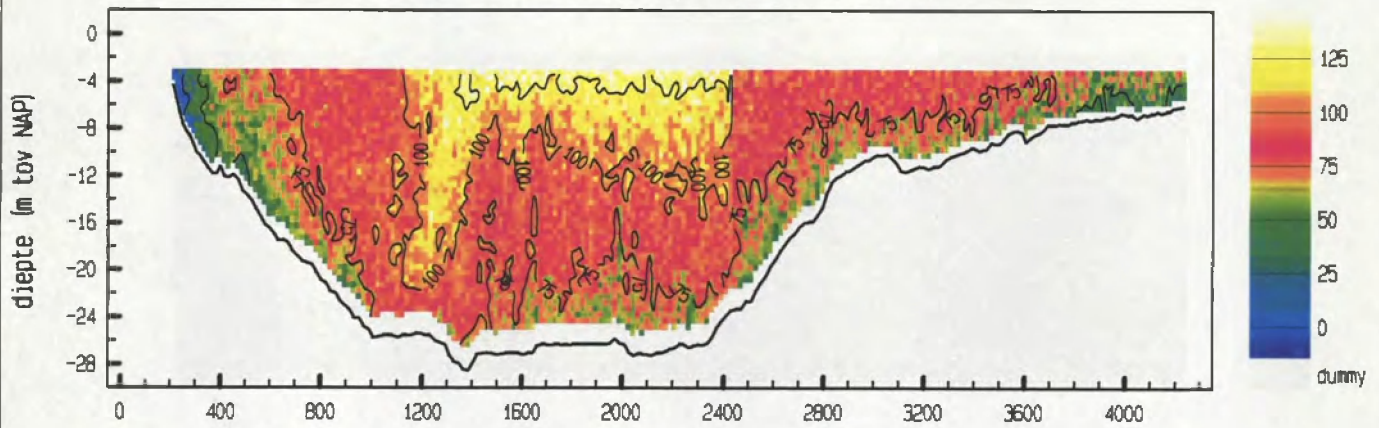


maximum gemiddelde stroom-  
 snelheid in de vertikaal

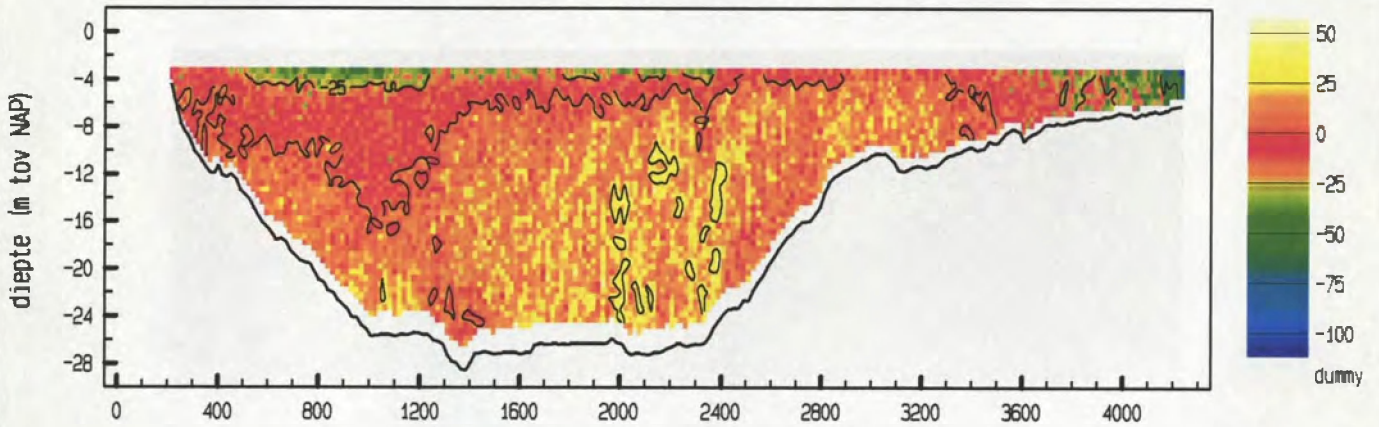
afstand uit nulpunt : 1210 m  
 stroomsnelheid : 116 cm/sec  
 stroomrichting : 275 °

doorstroomoppervlak : 66400 m<sup>2</sup>  
 raaidbiet : 59910 m<sup>3</sup>/sec

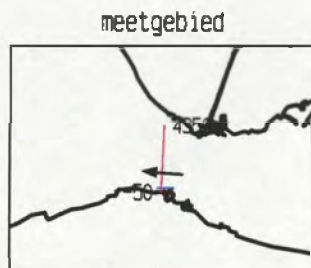
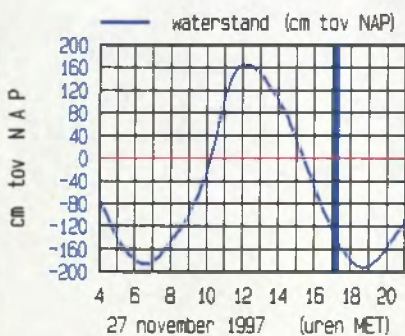
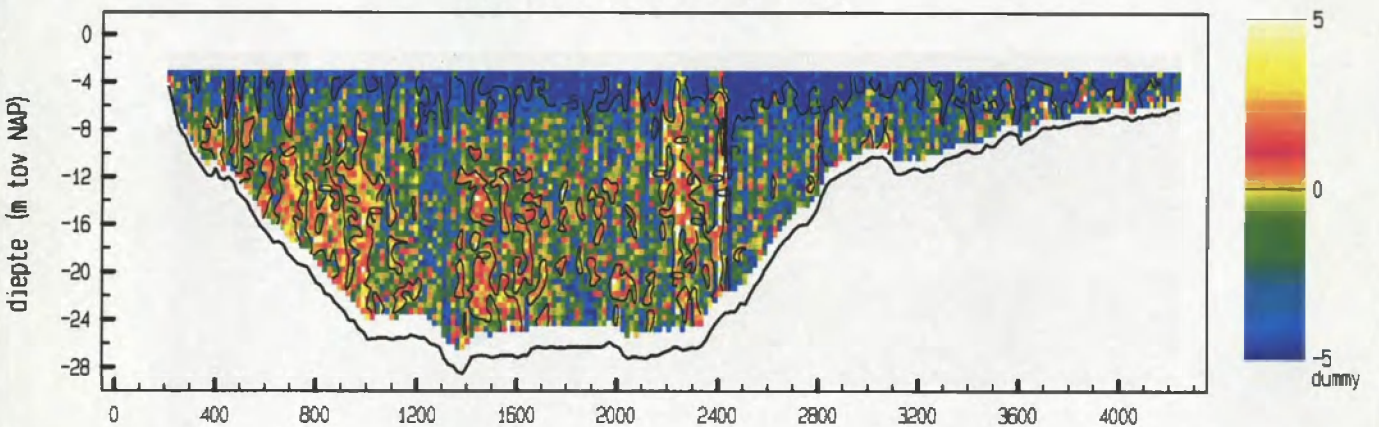
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de verticaleal

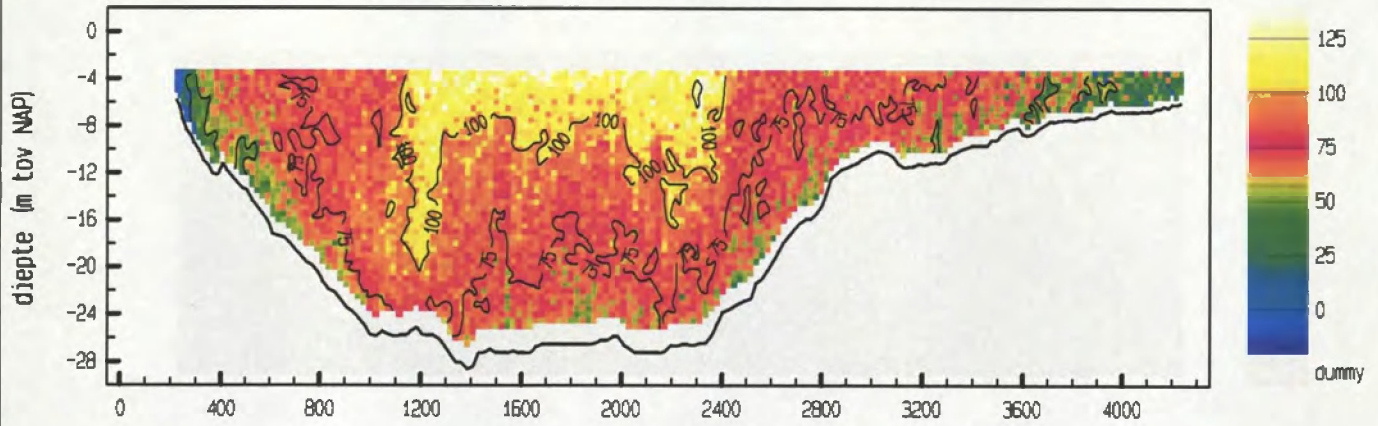
afstand uit nulpunt : 1233 m  
 stroomsnelheid : 108 cm/sec  
 stroomrichting : 275 °

doorstroomoppervlak : 65297 m<sup>2</sup>  
 raaidebiet : 53958 m<sup>3</sup>/sec

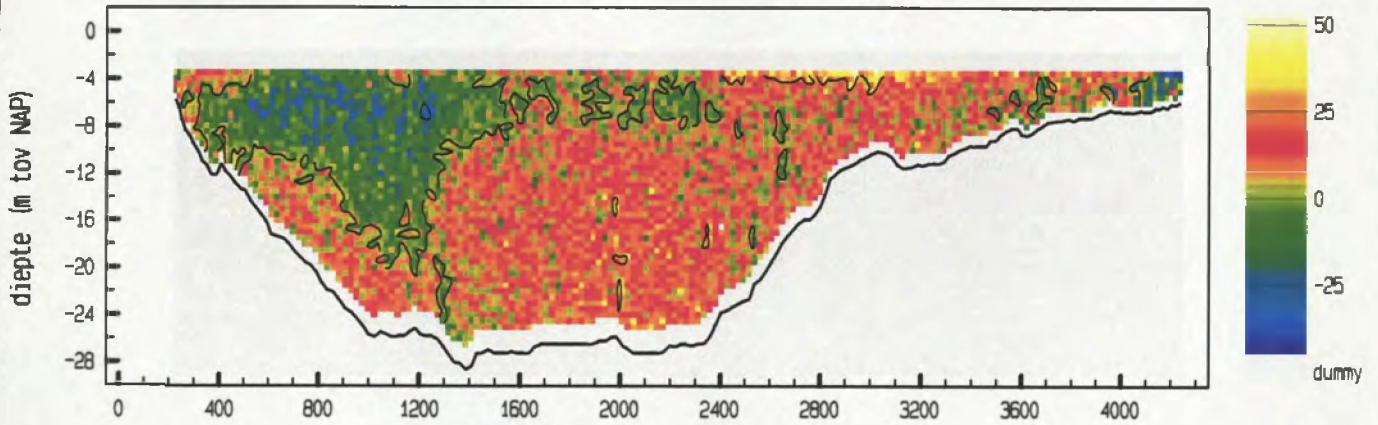
Debietraai 11 deelraai A27 november 1997  
 adcpfile : 11da034a.val

tijd : 1722 - 1738

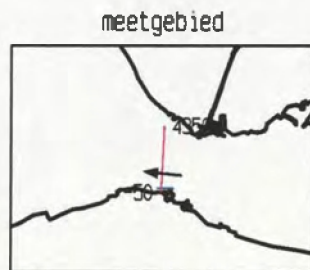
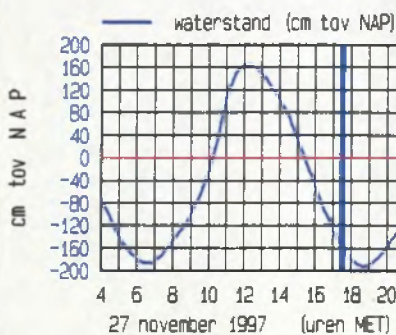
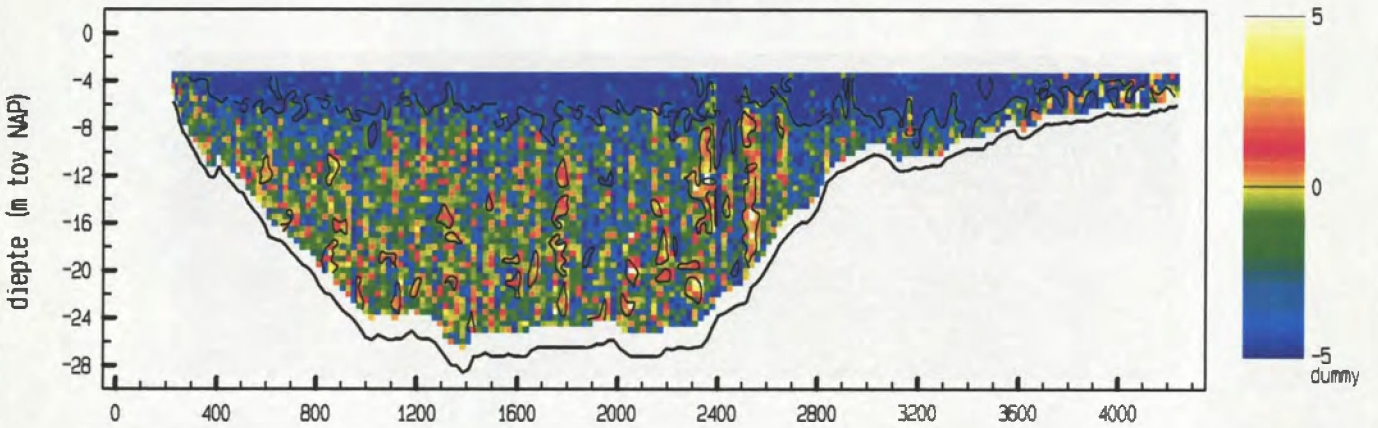
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 1204 m

stroomsnelheid : 102 cm/sec

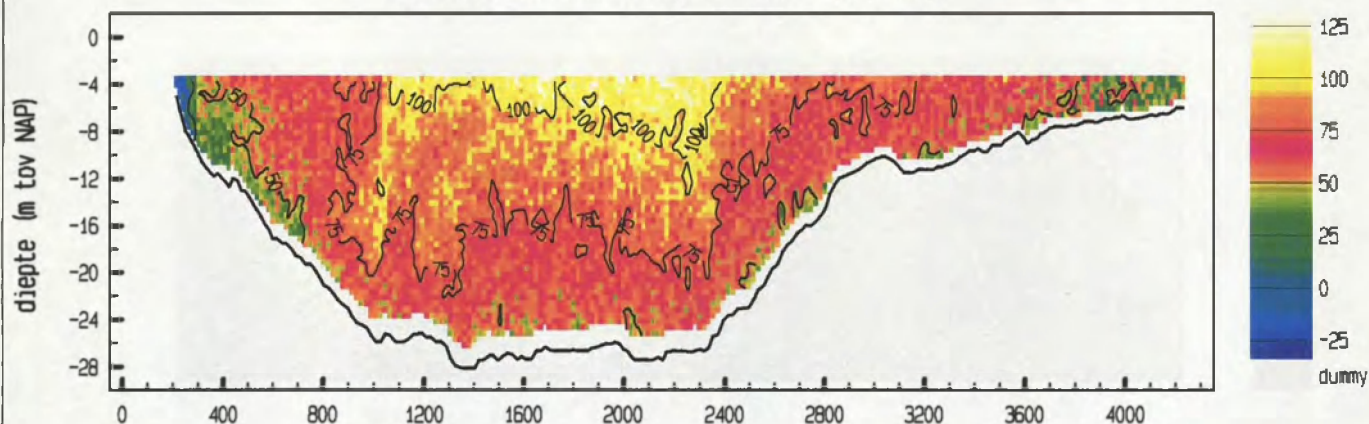
stroomrichting : 276 °

doorstroomoppervlak : 64531 m<sup>2</sup>

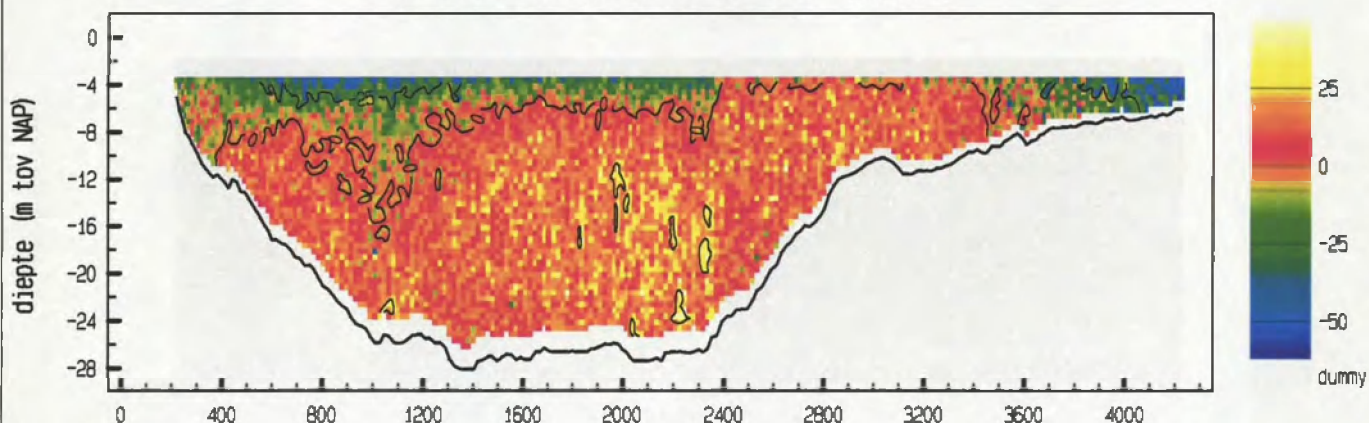
raaidebiet : 50124 m<sup>3</sup>/sec

adcpfile : 11da034a.val

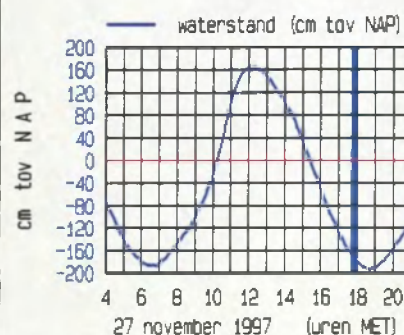
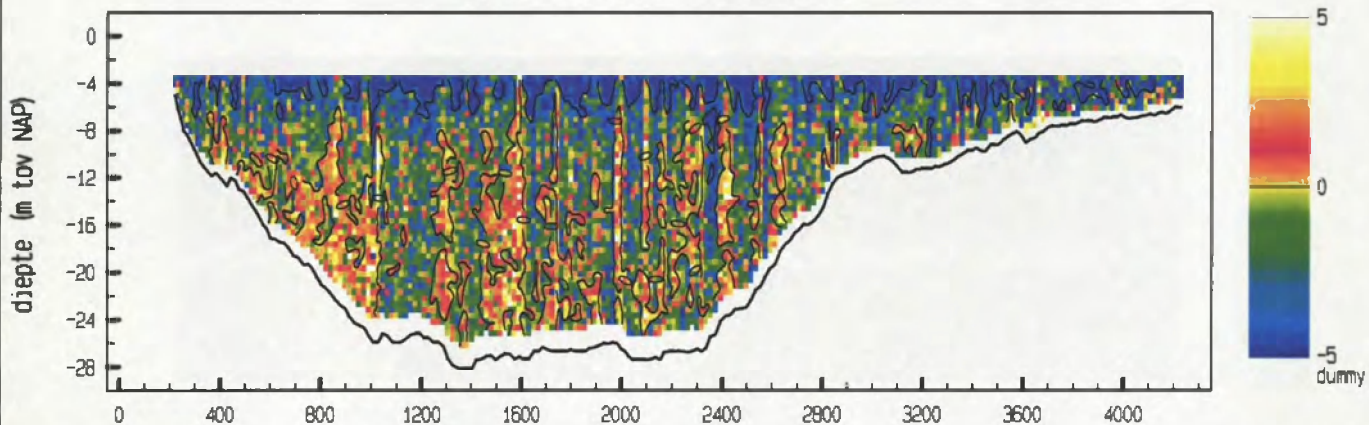
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied

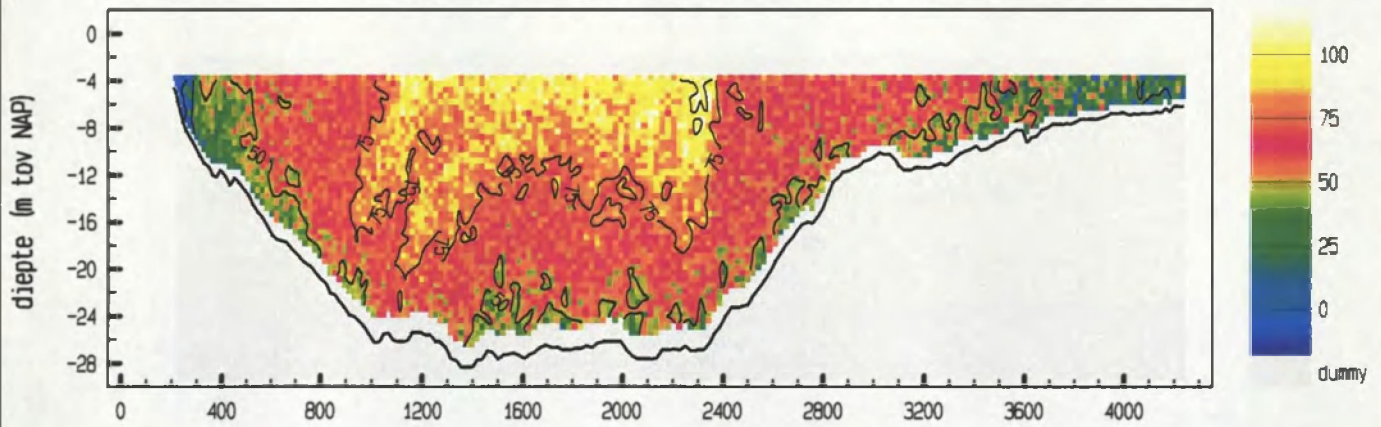


maximum gemiddelde stroom-  
 snelheid in de vertikaal

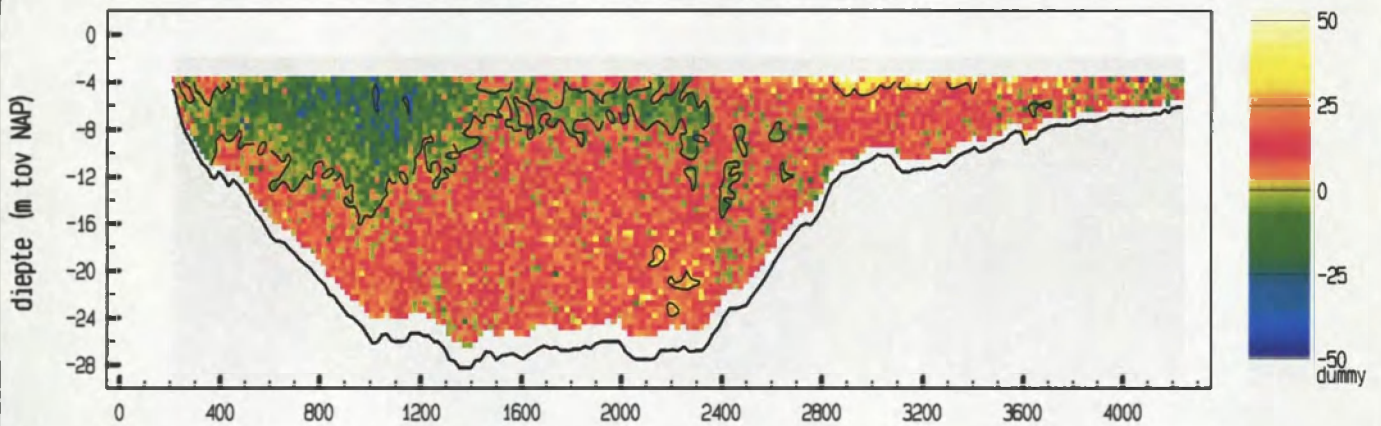
afstand uit nulpunt : 2264 m  
 stroomsnelheid : 89 cm/sec  
 stroomrichting : 269 °

doorstroomoppervlak : 64003 m<sup>2</sup>  
 raaidebiet : 45019 m<sup>3</sup>/sec

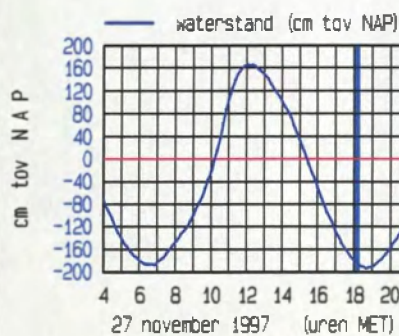
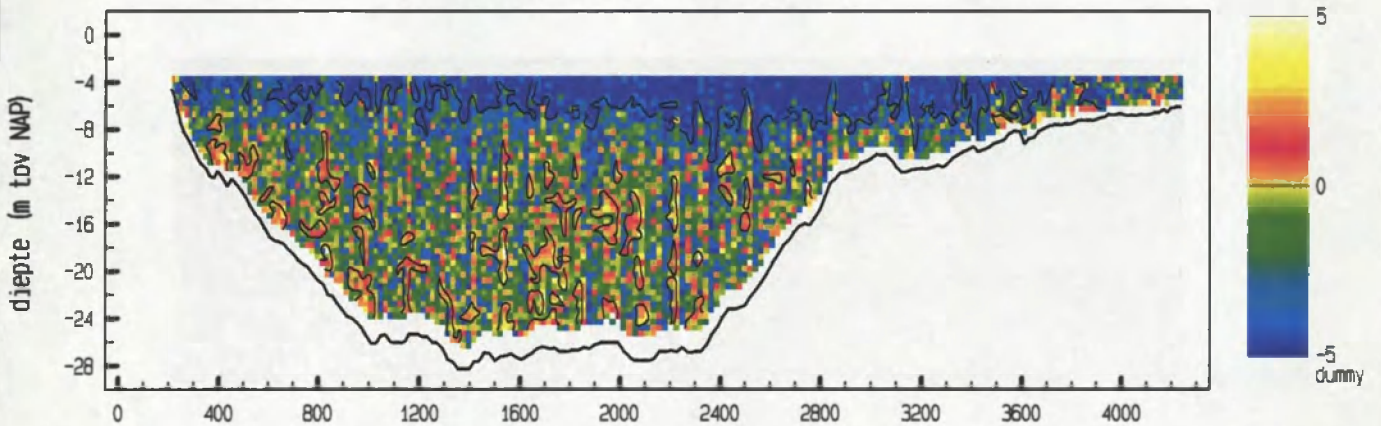
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



meetgebied



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2251 m

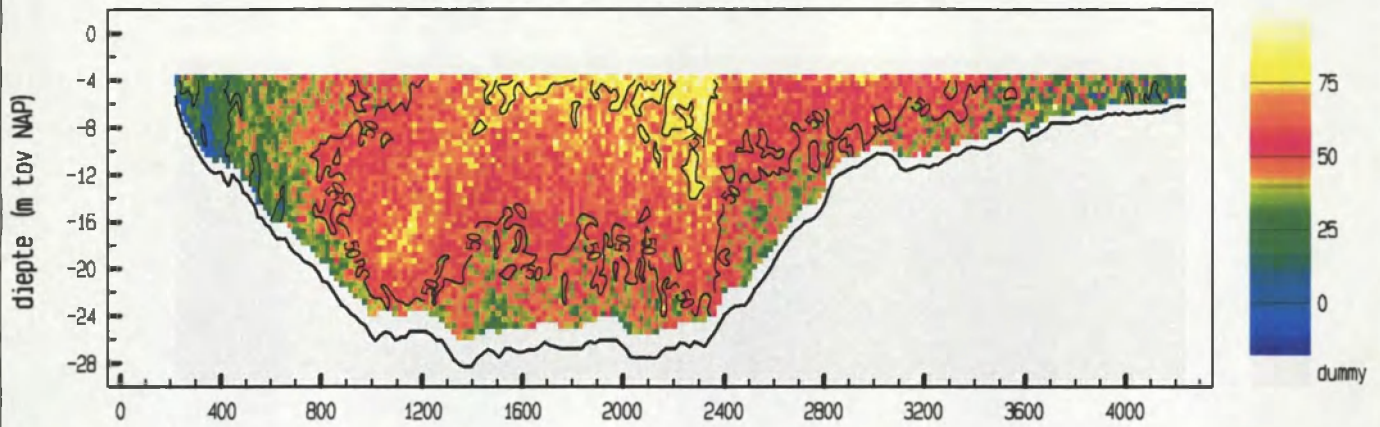
stroomsnelheid : 82 cm/sec

stroomrichting : 266 °

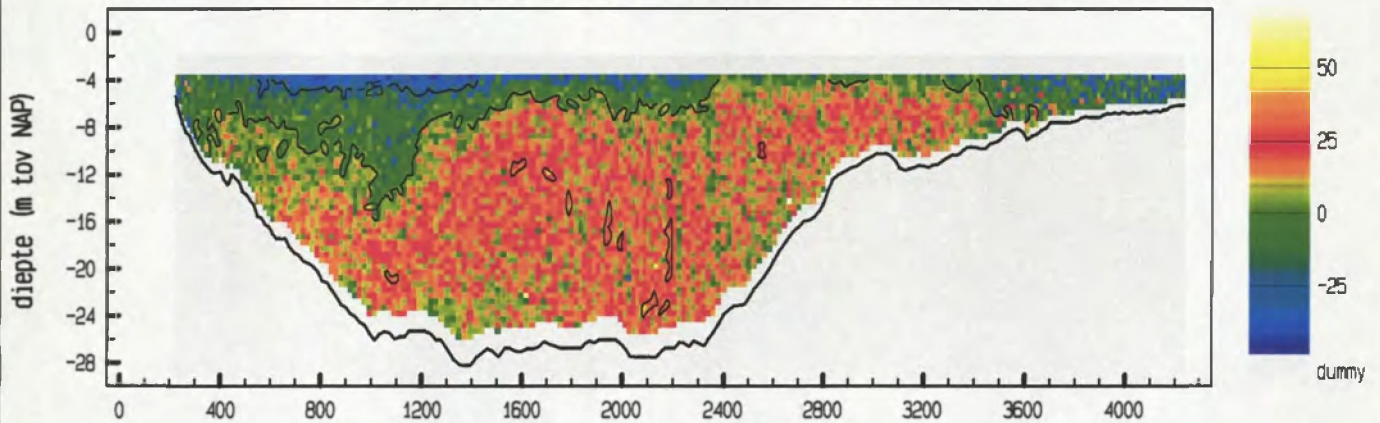
doorstroomoppervlak : 63609 m<sup>2</sup>

raaidebiet : 39789 m<sup>3</sup>/sec

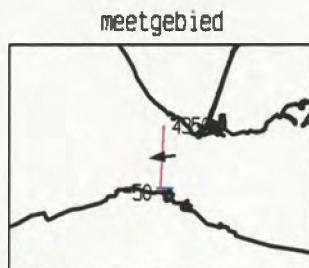
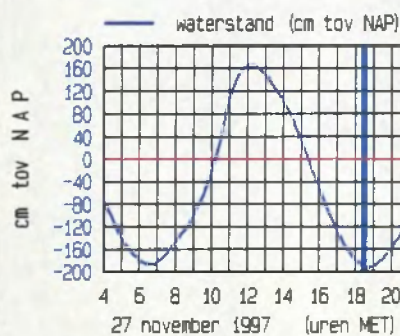
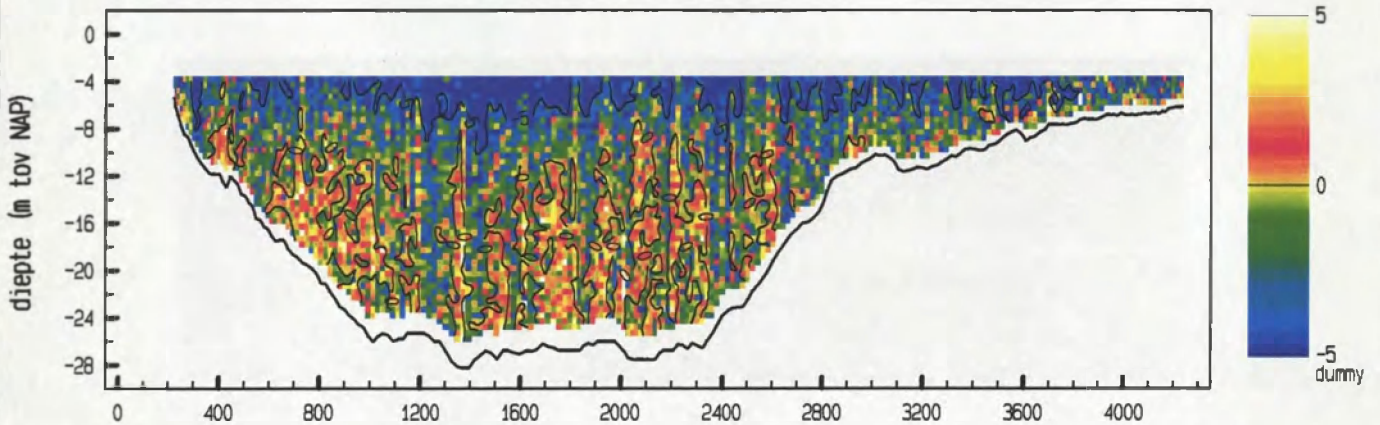
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2303 m

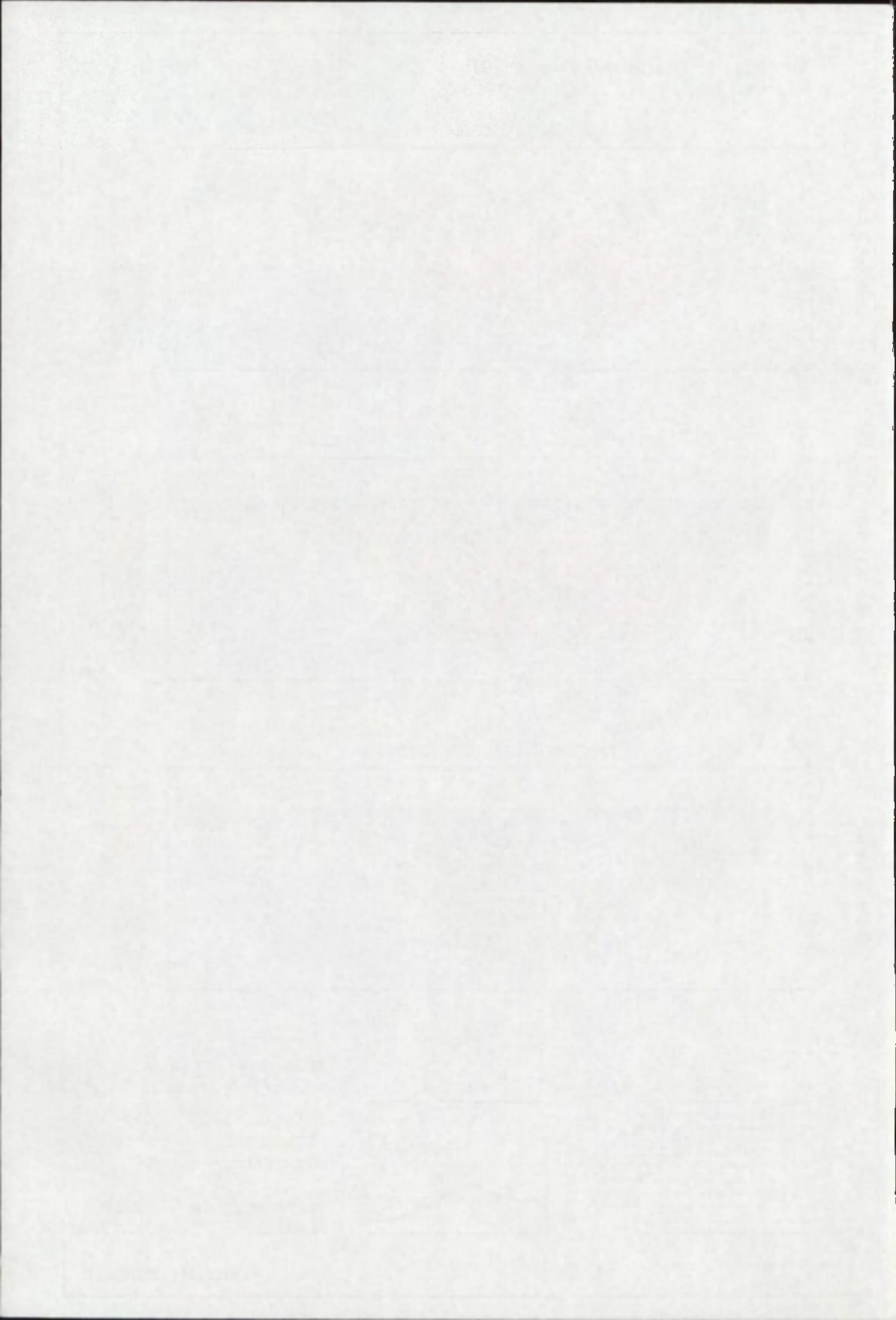
stroomsnelheid : 69 cm/sec

stroomrichting : 264 °

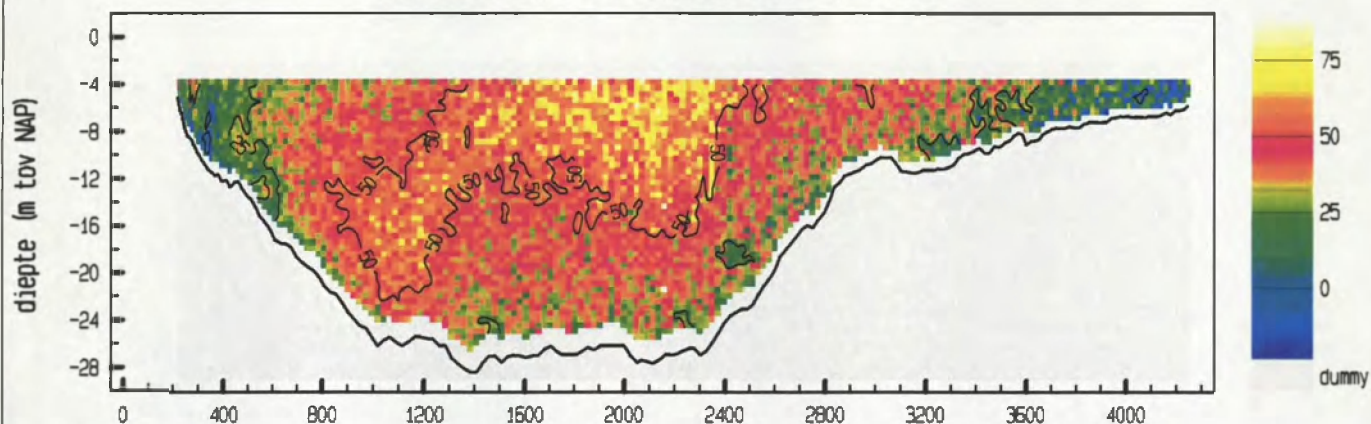
doorstroomoppervlak : 63342 m<sup>2</sup>

raaidebiet : 31652 m<sup>3</sup>/sec

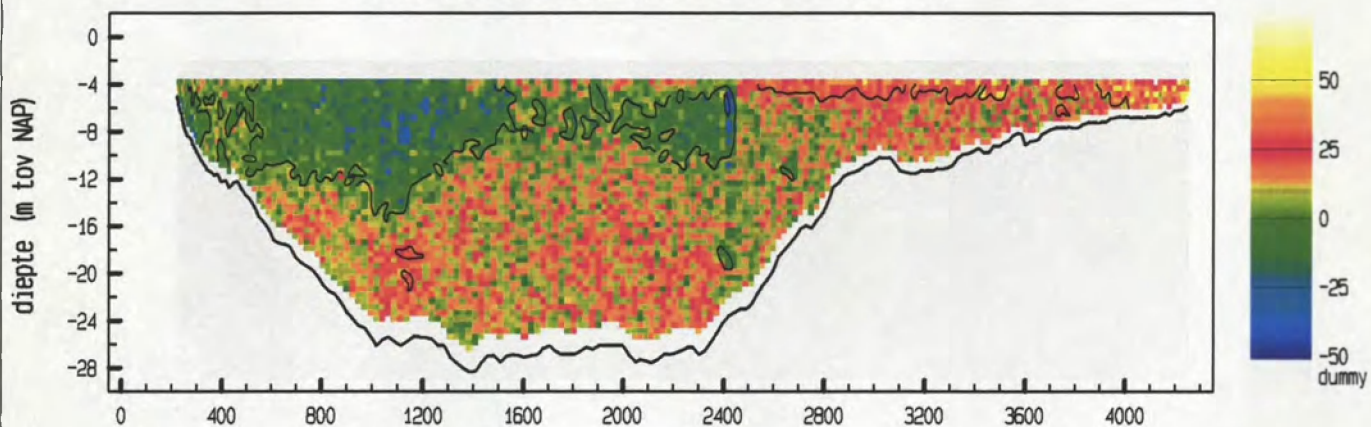




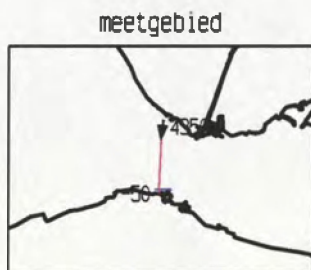
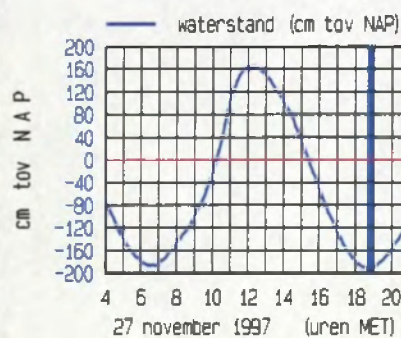
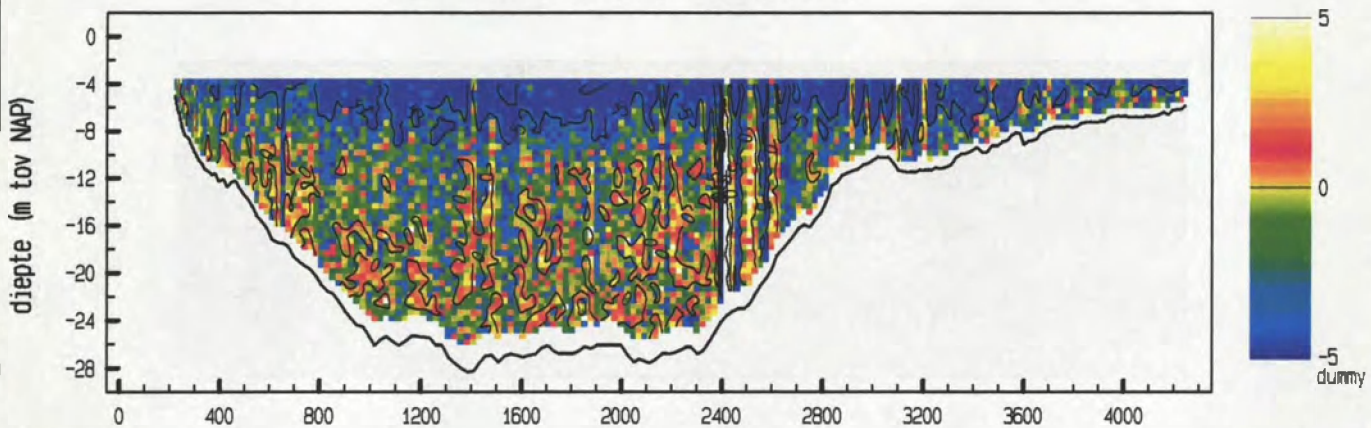
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)

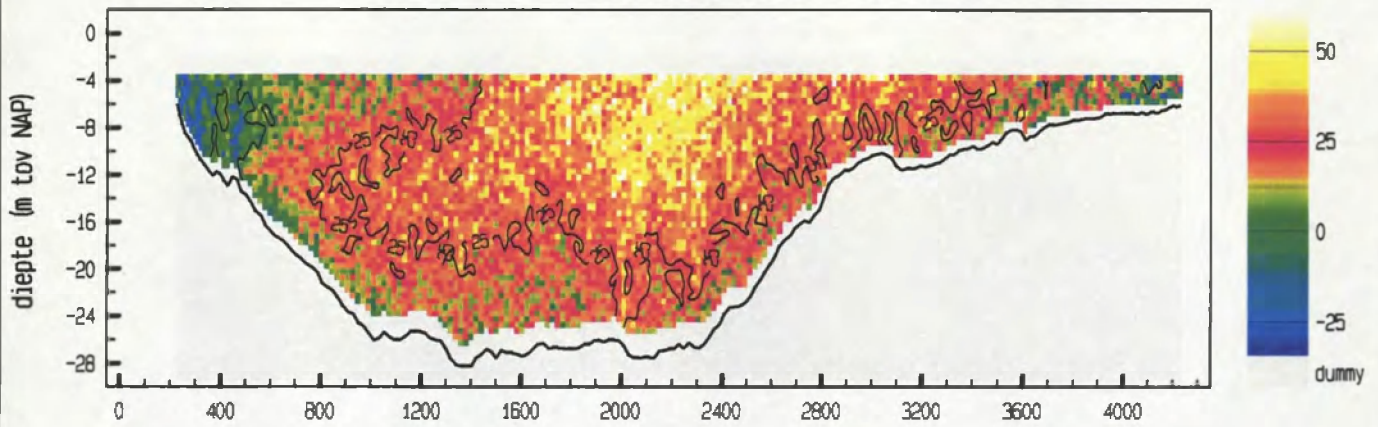


maximum gemiddelde stroom-  
 snelheid in de vertikaal

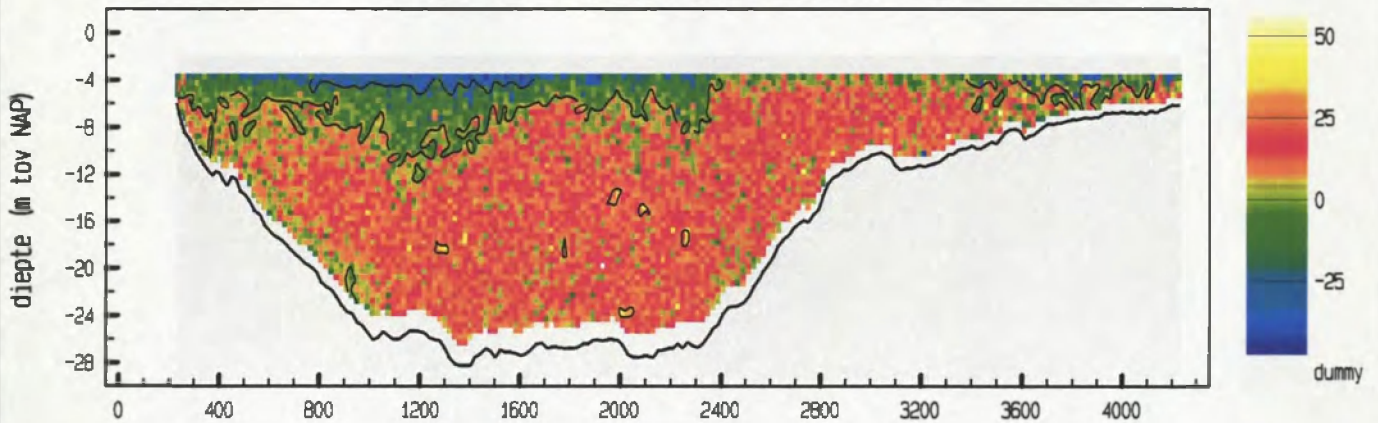
afstand uit nulpunt : 4122 m  
 stroomsnelheid : 55 cm/sec  
 stroomrichting : 187 °

doorstroomoppervlak : 63292 m<sup>2</sup>  
 raaidebiet : 24957 m<sup>3</sup>/sec

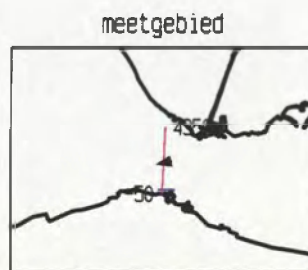
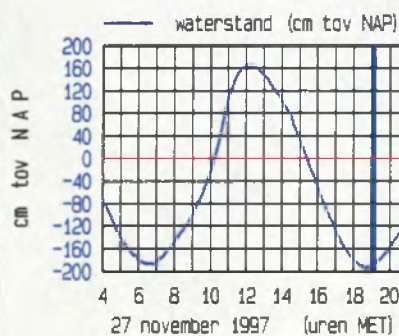
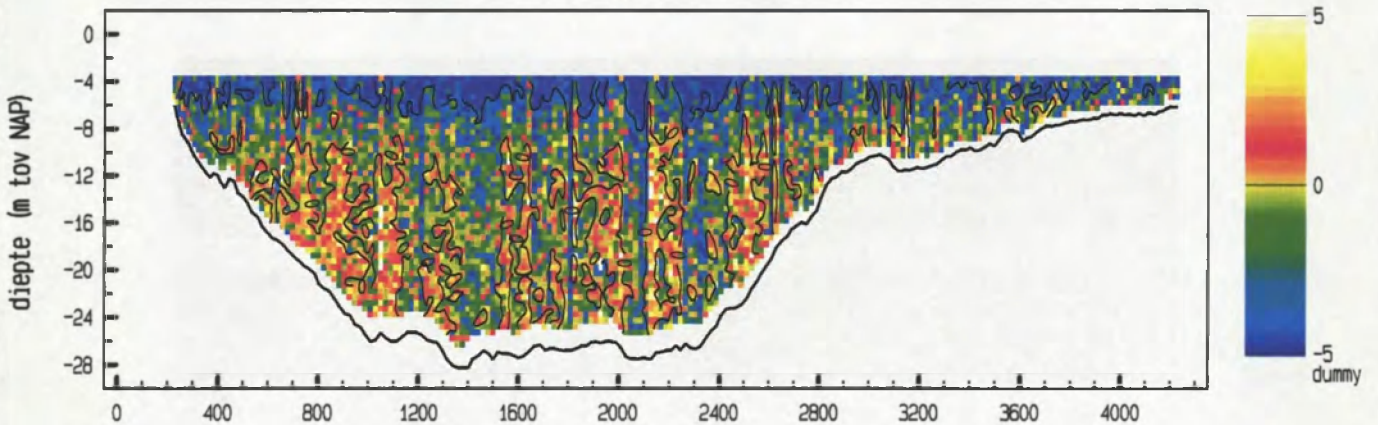
snelheid loodrecht op de raai (cm/sec)



snelheid evenwijdig aan de raai (cm/sec)



vertikale snelheid (cm/sec)



maximum gemiddelde stroom-  
 snelheid in de vertikaal

afstand uit nulpunt : 2012 m

stroomsnelheid : 42 cm/sec

stroomrichting : 257 °

doorstroomoppervlak : 63475 m<sup>2</sup>

raaidebiet : 14581 m<sup>3</sup>/sec

## 10. Debieten

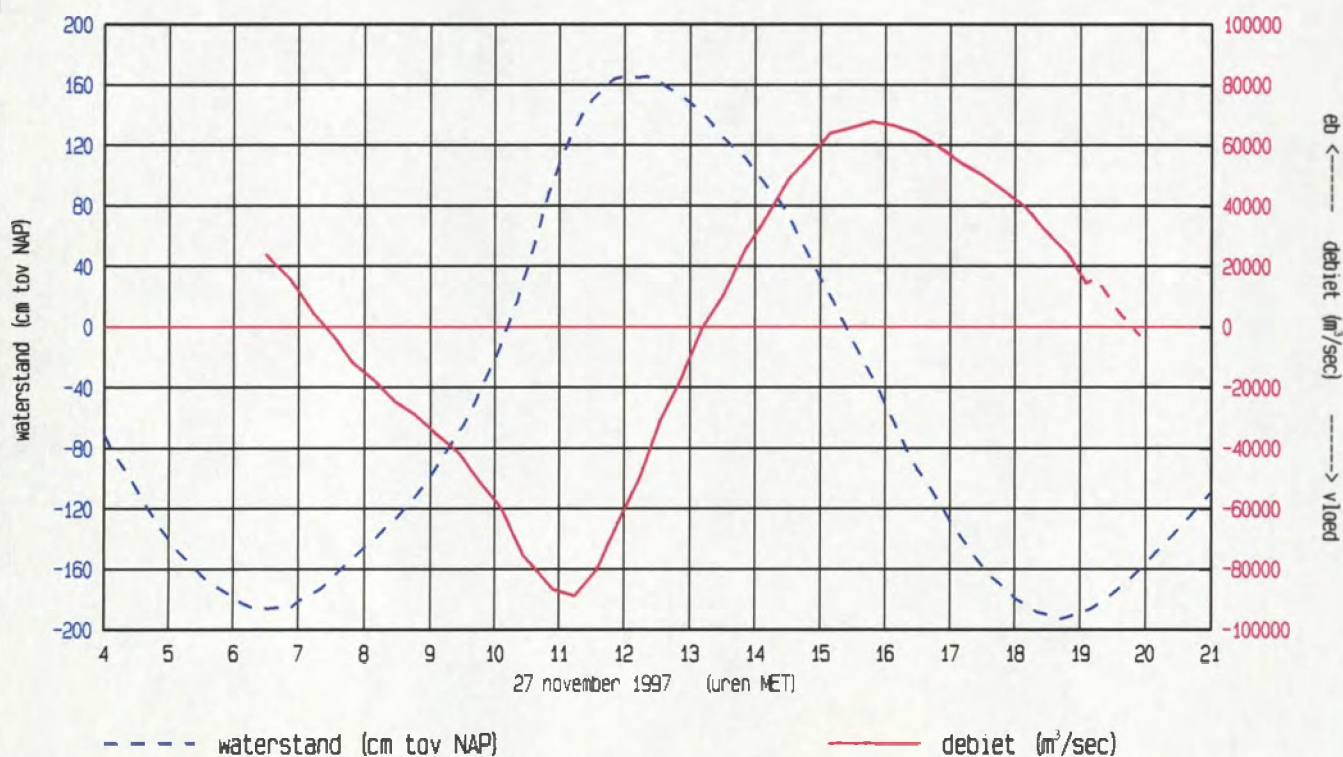
lokatiennaam : R120

soort/fase : Q30

omschrijving: debiet in m<sup>3</sup>/sec

	00	10	20	30	40	50
06				23635	19984	16332
07	11417	6187	1756	-2332	-7279	-12113
08	-15066	-18161	-21824	-25092	-27435	-30277
09	-33617	-36675	-39614	-43362	-48292	-52946
10	-57171	-62792	-70508	-76772	-80856	-84940
11	-87228	-88319	-86249	-82073	-75880	-67669
12	-60083	-52914	-43882	-33609	-25583	-18520
13	-9964	-1243	4742	10423	18015	25607
14	30881	36254	42519	48784	52721	56658
15	60744	64197	65114	66046	67013	67665
16	67062	66268	65032	63558	61531	59392
17	56805	54217	52142	50124	47438	44758
18	42143	39361	35079	30948	27424	23228
19	17464	15443	12887	7479	2780	-1208

datum	tijd	ebvolume (m <sup>3</sup> )	vloedvolume (m <sup>3</sup> )
971127	0724 - 1312		- 948 417 408
971127	1312 - 1947	995 772 160	



DEBIETMETING d.d. 13 en 27 november 1997

codenummer: 1819.M.9701

Raainr. 11

plaats: Wielingen - (Nolleplaat) - Sardijngeul

GETIJGEGEVENS								
station	datum	M.E.T	HW	M.E.T	LW	daling	ryzing	getyfact
Vlissingen	13-11-97	00.20	+2,52					
	27-11-97	00.00	+1,71					
				06.50	-1,73	4,25		1,101
				07.00	-1,89	3,60*		0,933*
		12.35	+2,42				4,15	1,075
		12.05	+1,69				3,58*	0,927*
				19.20	-2,10	4,52		1,171
				18.50	-1,96	3,65*		0,946*

amplitude gem. getij: Vlissingen 91.0 = 3,86

\* = 27 november 1997

GETIJVOLUMES	gemeten				herleid naar gem. jaargetij			
	EV	FV	Qmax eb	Qmax vl	EV	FV	Qmax eb	Qmax vl
	10 <sup>6</sup> m <sup>3</sup>	10 <sup>6</sup> m <sup>3</sup>	10 <sup>3</sup> m <sup>3</sup> s	10 <sup>3</sup> m <sup>3</sup> s	10 <sup>6</sup> m <sup>3</sup>	10 <sup>6</sup> m <sup>3</sup>	10 <sup>3</sup> m <sup>3</sup> s	10 <sup>3</sup> m <sup>3</sup> s
Wielingen 27 november	995,8	948,4	67,7	88,3	1052,6	1023,1	71,6	95,3
Sardijngeul 13 november	133,6	146,6	9,3	12,3	114,1	136,4	7,9	11,4
Totale raai	1129,4	1095,0	77,0	100,6	1166,7	1159,5	79,5	106,7

Tekeningnr. Debietkrommen: Notitie ZLMD-97.N.048A en B (bijlage 10)

STROOMGEGEVENS	Vmax eb m/s	Vmax vl m/s	OPPERVLAKTE DOORSTROOMPROFIEL	
			m <sup>2</sup> t.o.v. N.A.P.	tekeningnr.
Wielingen			71970	bijlage 4
Sardijngeul			9950	bijlage 4
Totale raai			81920	