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DI: 236730

Verkeer en Waterstaat

eneraal Rijkswaterstaat

nd

DZ: 236730

Debiet- Sedimentmetingen Veerhaven Breskens

20 / 21 mei 1997

RIJKSWATERSTAAT
DIRECTIE ZEELAND
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Meetdienst Zeeland

Notitie nr. ZLMD-97.N.012
Afdeling AXMH
Vlissingen, juli 1997

ministerie van verkeer en waterstaat

Rijkswaterstaat
Directie Zeeland
Meetdienst Zeeland

Notitie

Nummer: ZLMD-97.N.012

Onderwerp: Meetresultaten
Stroom/sedimentmeting
Veerhaven Breskens

Datum: 20 en 21 mei 1997

Code: 1826M9701

Datum: juli 1997

Auteur: Verwerking Hydrografie

Bijlagen: 25

Rijkswaterstaat Meetdienst Zeeland
Prins Hendrikweg 3
4382 NR VLISSINGEN
Tel: 0118-42 20 00
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1. ALGEMEEN

In het kader van een onderzoek naar de getijstroming en het slibtransport in getijde havens is in de avond en nacht van 20 op 21 mei 1997 een stroom- en sedimentmeting uitgevoerd in en nabij de veerhaven van Breskens.
Deze meting is een vervolg op de metingen welke in 1996 reeds uitgevoerd zijn.
Zie notitie ZLMD-96.N.016 en ZLMD-96.N.044
In dit geval is er gemeten in de meetpunten 4 (alleen eb) en 5 (alleen vloed).
Verder wordt er sediment gemeten in een vast punt (meetpunt 6) aan de buitenzijde van de afmeerfuik van de veerboot. Tevens is in de haven in een zestal raaien de stroomsnelheid en -richting gemeten met behulp van de ADCP. De resultaten van meetpunt 6 zijn niet in deze notitie opgenomen.
Voor een situatie van de meetpunten zie bijlage 1.

2. PLAATSBEPALING

De posities van de meetschepen werden bepaald met het DGPS-plaatsbepalingssysteem.
Deze posities staan vermeld in bijlage 2.

3. UITVOERING

De metingen werden uitgevoerd als vertikaalmetingen, waarbij de vertikalen opgaand werden gemeten.
Tijdens de meting is t.b.v. de ijking AZTM enkele keren de geluidssnelheid in water en de watertemperatuur gemeten en zijn voor de ijking MEX een aantal watermonsters genomen.
Bijlage 3 toont een overzicht van de uitgevoerde metingen.

4. VERTIKAAL GETIJ

Het vertikaal getij werd bepaald aan de registrerende peilschrijver van Vlissingen, (X = 30480; Y = 385220), lokatienummer 140 uit het Zege-meetnet en is grafisch uitgezet tegen de tijd in bijlage 4.
De gemiddelde getijgegevens over de periode 1981-1990 van station Vlissingen zijn:

Waterstand in m 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
20-05-1997	12.50	2.13			
20-05-1997	19.20	- 1.83	eb	3.96	1.02591
21-05-1997	01.10	2.11	vloed	3.94	1.02073
21-05-1997	07.40	- 1.87	eb	3.98	1.03109

5. WEERSOMSTANDIGHEDEN

Gedurende de gehele meting stond er een zwakke tot matige wind tussen de 2 en 5 m/sec aanvankelijk noordwest, later draaiend naar zuid zuidwest.
De windsnelheid en -richting werd gemeten aan de meetopstelling Hoofdplaat (HFPL, Zege-lokatienummer 831) en zijn samen met het vertikale getij van Vlissingen uitgezet in de bijlage 5.

6. VERWERKING

-Stroommeting (ELMAR)
De volgende bewerkingen zijn uitgevoerd:
* de stroomvertikalen (bijlage 6);
* de stroomsnelheids- en stroomrichtingsgrafieken als functie van de tijd (bijlage 7).

-Zandmeting (AZTM)
De gemeten zandconcentraties en het daaruit afgeleide zandtransport zijn met de voor het betreffende instrument geldende ijklijn gecorrigeerd. Zie voor de ijklijn bijlage 8.

Gezien het feit dat meetwaarden, gerelateerd aan monsterwaarden twijfelachtige ijklijnen opleveren worden de ijklijnen van het Waterloopkundig Laboratorium Delft gebruikt. Deze ijklijnen zijn bepaald uit meetresultaten in zoet water (geluidssnelheid = 1464.29 m/sec) en herleid naar een temperatuur van 15°C (Kt = 1.0) en aangepast naar de omstandigheden tijdens de meting, n.l. watertemperatuur 13.7°C en een geluidssnelheid van 1496 m/sec waarbij Kt = 1.054752.
Momenteel zijn beide ijkmethodes in onderzoek bij H.I.

Uit de gecorrigeerde gegevens zijn de vertikalen, stroomsnelheid en - richting getekend in combinatie met de zandconcentratie (bijlage 9). In bijlage 10 zijn dezelfde stroomsnelheidsvertikalen getekend maar dan in combinatie met het zandtransport. In deze bijlage is tevens een tabel opgenomen met het gemiddeld totaaltransport per vertikaal.
De gemiddelde stroomsnelheden en -richtingen zijn tegen de tijd uitgezet in samenhang met de gemiddelde concentratie (bijlage 11) en in bijlage 12 in combinatie met het totaaltransport.

-Slibmeting (MEX)
Tijdens de meting zijn monsters genomen om aan de hand daarvan de MEX-gegevens te corrigeren. De daaruit voortgekomen ijklijn is gepresenteerd in bijlage 13.
De bijlagen 14 t/m 17 tonen dezelfde presentatie voor wat betreft de slibresultaten als de bijlagen 9 t/m 12 voor de zandresultaten (concentratie - transport).

7. GEGEVENSOPSLAG

De volgende gegevens zijn als 10-minuutbestanden opgeslagen in de database van de HP1000:

omschrijving	lokatienaam	lokatienummer	soort/fase
mp. 4 Wijtvliet	WIJ1	- 110	SGO2
mp. 5 Wijtvliet	WIJ2	- 306	SGO2
Vlissingen	VLIS	140	WTO2/HWO2
Hoofdplaat	HFPL	831	WIO2

De AZTM/MEX-gegevens zijn
opgeslagen op systeem-1 van de HP1000 om te zijnertijd op tape te worden gezet.

De gevalideerde AZTM-gegevens staan opgeslagen onder de volgende filenamen:

mp.4 Wijtvliet : AZTM05V97052015.DAT
mp.5 Wijtvliet : AZTM05V97052020.DAT en AZTM05V97052100.DAT

De gevalideerde MEX-gegevens staan opgeslagen onder de volgende filenamen:

mp.4 Wijtvliet : AZTMPEV97052015.DAT
mp.5 Wijtvliet : AZTMPEV97052020.DAT en AZTMPEV97052100.DAT

8. STROOMMETING

De stroommeting is uitgevoerd met de ADCP (Acoustic Doppler Current Profiler) waarbij de raaien varend werden doorgemeten.
Bijlage 18 toont de situatie van de meetraaien en de meetpunten waarvan de vertikaalmetingen zijn gepresenteerd. Totaal werden 36 tracks gevaren.
(elke raai werd 6 maal opgenomen)
Bijlage 19 geeft een overzicht van de gevaren tracks.
Voor het bepalen van de positie is gebruik gemaakt van het DGPS-plaatsbepalingssysteem en voor de bepaling van het profiel van RWSLOD.
Raai - 1 is RWSLOD-raai zCe 0000.250 (langsraai)
Raai - 2 is RWSLOD-raai zCf 0000.250 (dwarsraai)

Raai - 3 is RWSLOD-raai zCg 0000.250 (dwarsraai)
Raai - 4 is RWSLOD-raai zCh 0000.250 (dwarsraai)
Raai - 5 is RWSLOD-raai zCi 0000.270 (dwarsraai)
Raai - 6 is RWSLOD-raai zCj 0000.250 (langsraai)
Deze raaien zijn opgenomen tijdens de meting en gepresenteerd in bijlage 20.
Bijlage 21 bevat de berekende waterstanden voor de havenmonding.

9. VERWERKING ADCP

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

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

Presentatie van de gemeten gegevens per transcect. De gebruikte kleurenschaal is vanwege de duidelijkheid per transcect aangepast aan de gemeten snelheden.
In deze bijlagen 23a t/m 23f zijn de eb-snelheden positief en de vloedsnelheden negatief.
Hoofdrichting vloed langsraaien 135°; dwarsraaien 225°(instromend).
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 nummeriek als in de situatie weergegeven.
Op het gemiddeld tijdstip van de gevaren track is het doorstroomoppervlak bepaald en bijgeschreven in deze bijlage 23 evenals het berekende debiet.
In de getijlijn staat de tijdsperiode van de meting aangegeven.

* Per transcect zijn nogmaals de ontbonden snelheden loodrecht op de meetraai en evenwijdig aan de meetraai alsmede de vertikale stroomsnelheden gepresenteerd in het dwarsprofiel, met vermelding van de iso-lijnen. De kleurenschaal is per grafiek aangepast. Zie bijlagen 24a t/m 24f.

* In de bijlage 25 zijn de "vertikalen", gemeten in de meetpunten 1 t/m 13, gepresenteerd in de tijd als kleurgrafieken (snelheid en richting) en als stroomsnelheid- en stroomrichtings-krommen met vermelding van de meetpositie in het dwarsprofiel.

N.B.

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

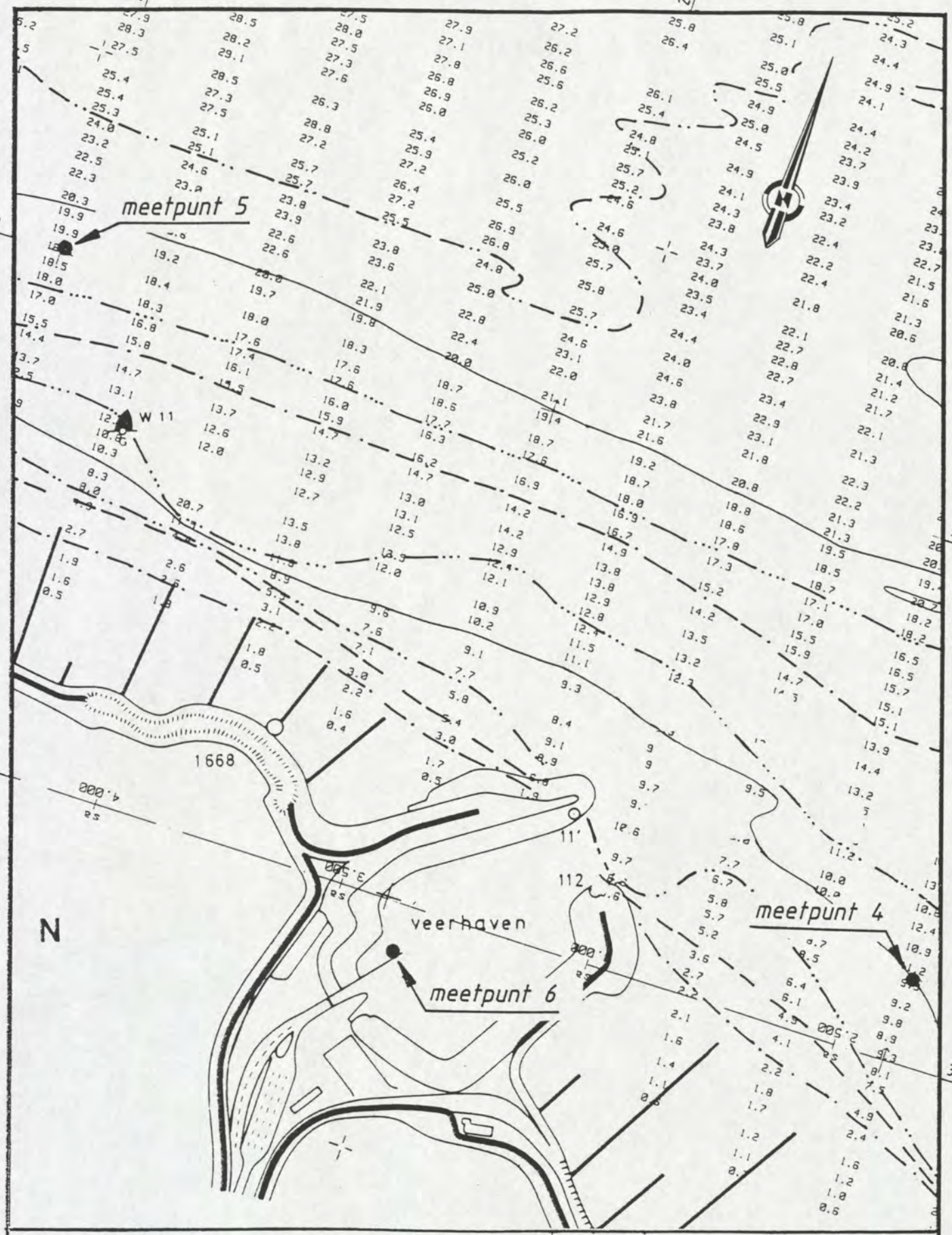
8. LIJST VAN BIJLAGEN

1. Situatie meetgebied
2. Gegevens meetpunten
3. Overzicht metingen
4. Opgetreden getij
5. Wind- en getijgegevens
6. Stroomvertikalen
7. Stroomsnelheids- en stroomrichtingsgrafieken
8. IJklijn AZTM
9. Vertikalen - zandconcentratie
10. Vertikalen - zandtransport + tabel totaal transport
11. Gemiddelde krommen - zandconcentratie
12. Gemiddelde krommen - zandtransport
13. IJklijn MEX
14. Vertikalen - slibconcentratie
15. Vertikalen - slibtransport + tabel totaal transport
16. Gemiddelde krommen - slibconcentratie
17. Gemiddelde krommen - slibtransport
18. Overzicht meetraaien.
19. Gevaren tracks.
20. Dwarsprofielen.
21. Waterstanden.
22. Gevalideerde tracks.

23a. Gemeten gegevens raai-1.
23b. Gemeten gegevens raai-6.
23c. Gemeten gegevens raai-2.
23d. Gemeten gegevens raai-3.
23e. Gemeten gegevens raai-4.
23f. Gemeten gegevens raai-5.
24a. Ontbonden gegevens raai-1.
24b. Ontbonden gegevens raai-6.
24c. Ontbonden gegevens raai-2.
24d. Ontbonden gegevens raai-3.
24e. Ontbonden gegevens raai-4.
24f. Ontbonden gegevens raai-5.

25. Vertikalen meetpunten

1. Situatie meetgebied



rijkswaterstaat directie zeeland – meetdienst	get.		bijl. 1
	gec.		code 18.26 M 97.01
Situatie meetpunten Stroom- en Sedimentmeting Veerhaven Breskens d.d.: 20 en 21 mei 1997	gez.		schaal 1 : 10 000
	akk.		nr.

2. Gegevens meetpunten

Meting: Stroom- en Sedimentmeting Veerhaven Breskens
d.d.: 20 en 21 mei 1997

Meetraai: nulpunt: X= Y=
argument: graden

Meetraai: nulpunt: X= Y=
argument: graden

mp nr.	vaartuig	gemiddelde positie		opmerkingen
		X	Y	
4	Wijtvliet	28015	381162	eb-meting hfdr.vl 75°
5	Wijtvliet	26008	382020	vloed-meting hfdr.vl 95°
6		27050	380090	vaste meetopstelling

RIJKSWATERSTAAT
directie Zeeland - meetdienst

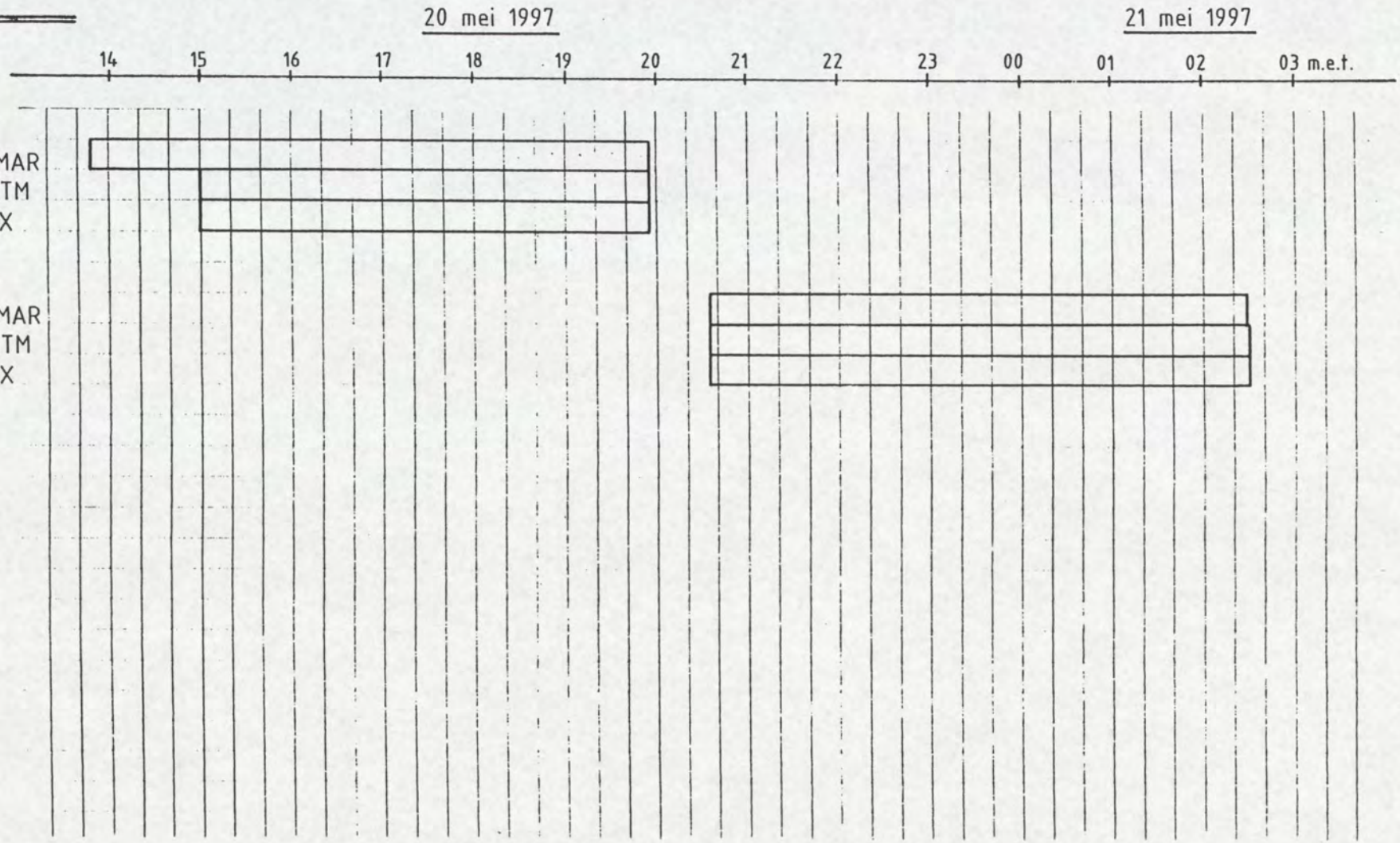
code:1826M9701

Gegevens meetpunten Stroom- en Sedimentmeting Veerhaven Breskens

bijlage: 2

3. Overzicht metingen

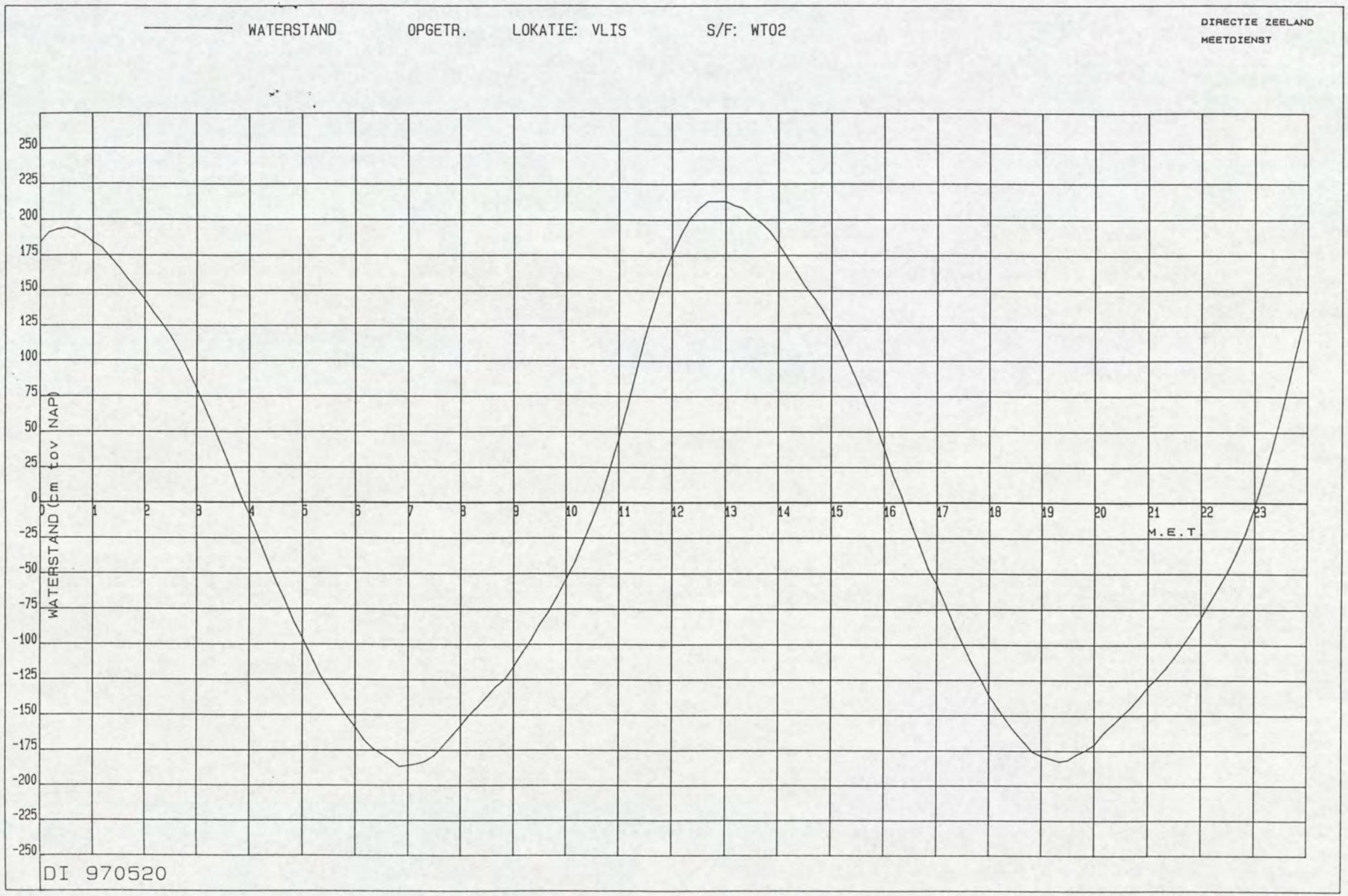
MEETRAAI:

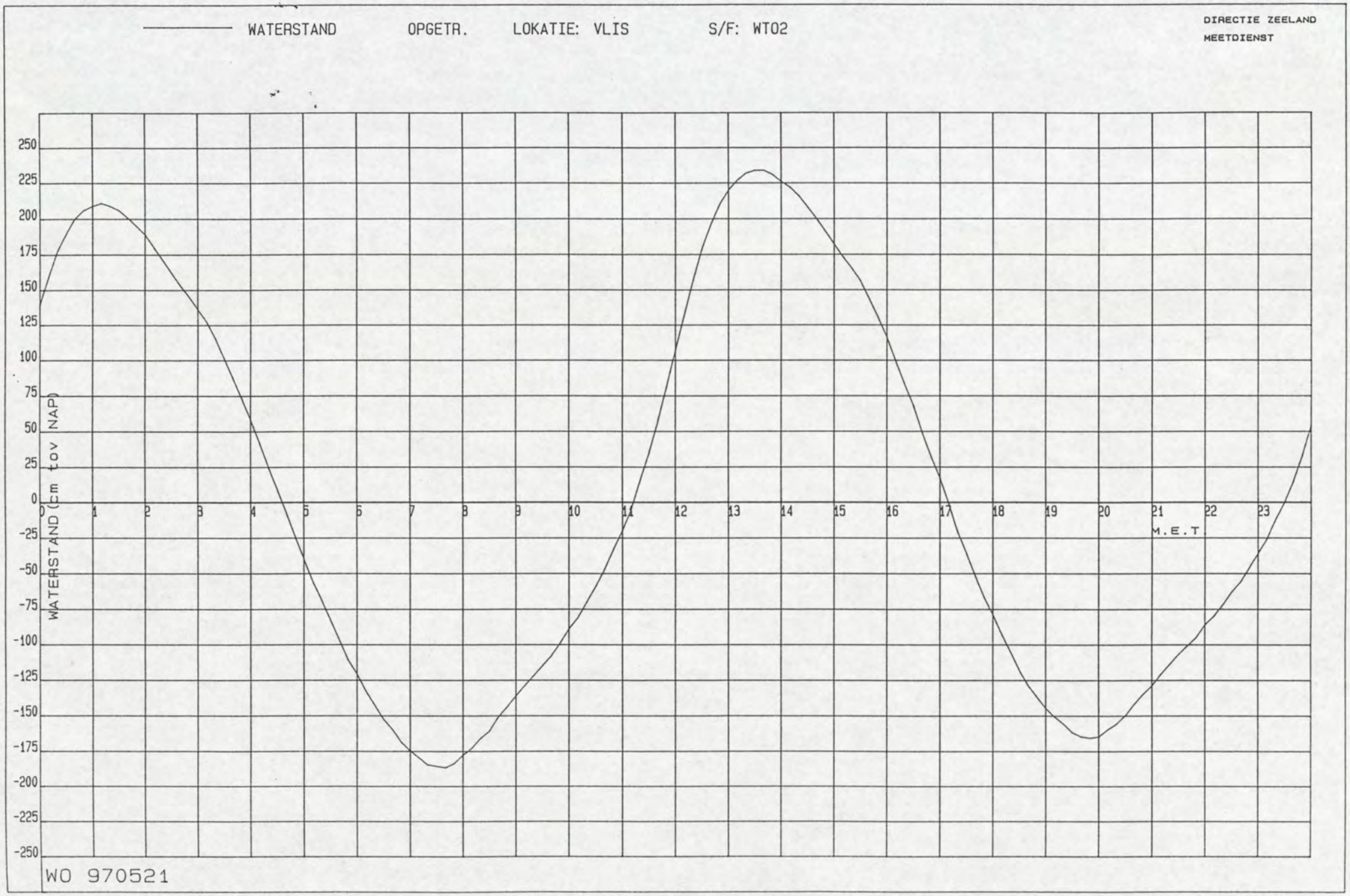


storingen

rijkswaterstaat directie zeeland – meetdienst	get.		bijl. 3
	gec.		code 18.26 M 97.01
OVERZICHT METINGEN d.d: 20 en 21 mei 1997	gez.		schaal
	akk.		nr.

4. Opgetreden getij


WATERSTAND
OPGETR.
LOKATIE: VLIS
S/F: WT02
DIRECTIE ZEELAND
MEETDIENST
WATERSTAND (cm tov NAP)
250
225
200
175
150
125
100
75
50
25
0
-25
-50
-75
-100
-125
-150
-175
-200
-225
-250
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
M.E.T.
DI 970520


WATERSTAND OPGETR. LOKATIE: VLIS S/F: WT02
DIRECTIE ZEELAND
MEETDIENST
WATERSTAND (cm tov NAP)
250
225
200
175
150
125
100
75
50
25
0
-25
-50
-75
-100
-125
-150
-175
-200
-225
-250
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
M.E.T
WO 970521

/OV/VERTIKAAL/RUNVLIS/UIT1

A L G P R - L I J S T -pag. 01- datum/tijd: 970710.1433

locatie: 140 oms: VLIS (VLISSINGEN)
soortf.: WTO2 oms: WATERSTANDEN
kanalen: 1

970520

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03:	80	66	52	37	22	5
04:	-9	-25	-41	-56	-69	-84
05:	-96	-109	-122	-132	-142	-151
06:	-159	-168	-174	-178	-182	-187
07:	-186	-185	-183	-179	-172	-165
08:	-158	-150	-144	-137	-130	-125
09:	-116	-106	-97	-86	-77	-66
10:	-54	-42	-27	-12	4	24
11:	45	68	93	118	139	160
12:	176	190	201	208	213	213
13:	213	210	208	202	198	192
14:	183	173	163	153	145	136
15:	125	112	98	84	69	55
16:	38	19	4	-14	-30	-47
17:	-58	-72	-87	-100	-113	-124
18:	-136	-145	-154	-162	-169	-176
19:	-179	-181	-183	-182	-178	-175
20:	-171	-163	-157	-151	-145	-138
21:	-130	-124	-117	-109	-100	-91
22:	-81	-70	-59	-48	-35	-21
23:	-3	17	38	62	88	114

/OV/VERTIKAAL/RUNVLIS/UIT2

00001 A L G P R - L I J S T -pag. 01- datum/tijd: 970710.1434
00002
00003 locatie: 140 oms: VLIS (VLISSINGEN)
00004 soortf.: WT02 oms: WATERSTANDEN
00005 kanalen: 1
00006
00007
00008 970521

	00	10	20	30	40	50
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01:	209	211	209	206	201	195
02:	189	180	171	162	153	145
03:	136	127	115	101	87	73
04:	58	42	25	9	-7	-24
05:	-40	-56	-69	-83	-97	-111
06:	-121	-133	-143	-153	-160	-169
07:	-175	-180	-185	-186	-187	-184
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09:	-136	-129	-122	-115	-108	-99
10:	-89	-81	-70	-59	-47	-33
11:	-20	-5	15	34	56	81
12:	107	132	157	179	196	210
13:	220	227	232	234	234	231
14:	226	222	216	208	200	191
15:	182	173	165	156	143	130
16:	116	99	83	68	49	32
17:	17	-1	-21	-36	-52	-67
18:	-79	-93	-105	-118	-129	-137
19:	-145	-151	-156	-162	-165	-166
20:	-165	-160	-156	-150	-142	-135
21:	-129	-121	-114	-107	-101	-95
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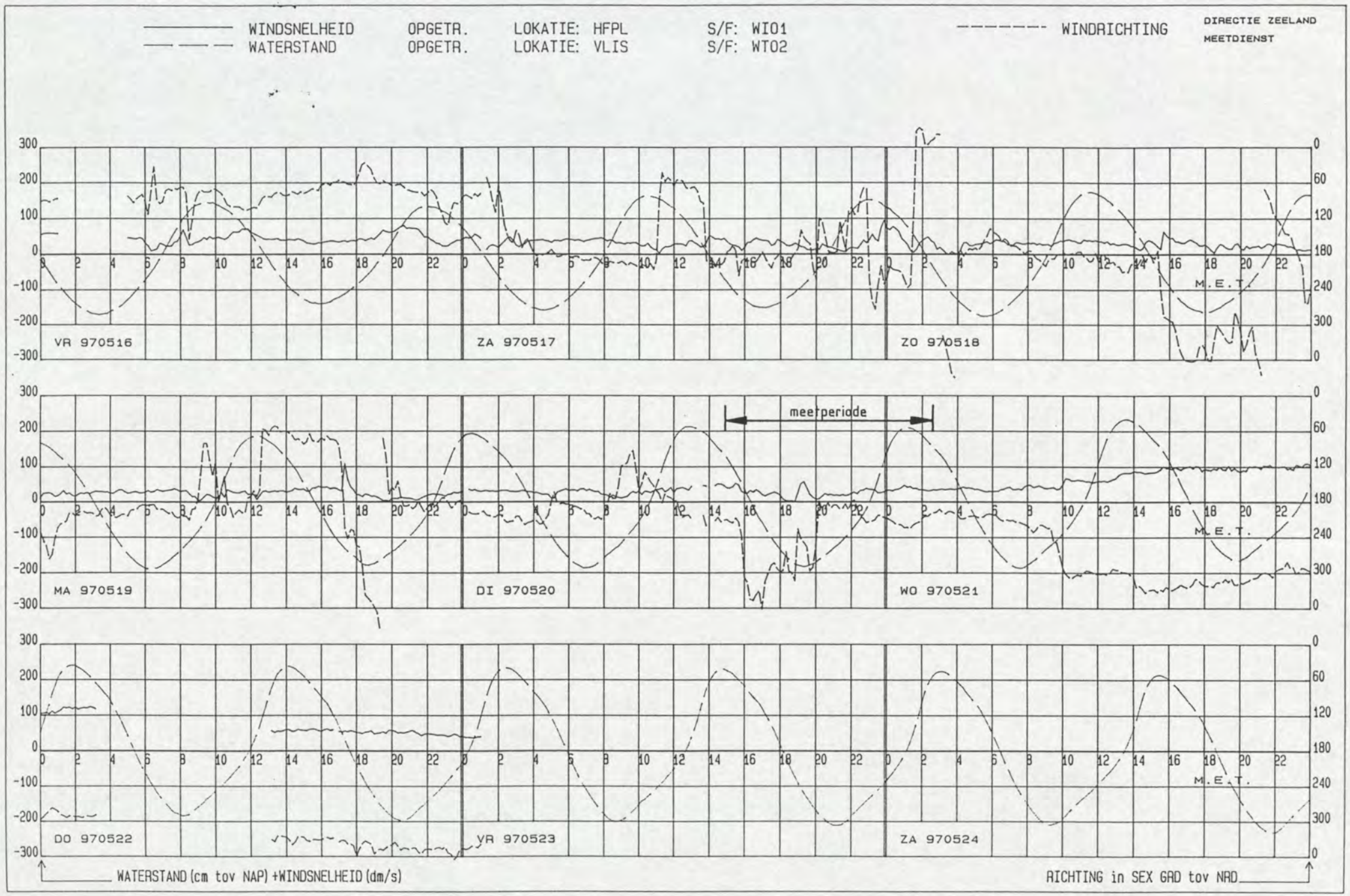
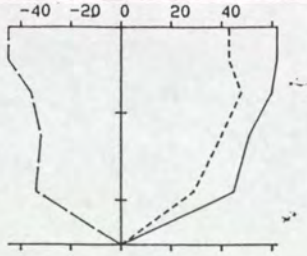
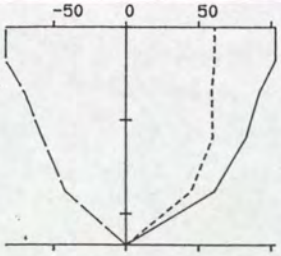
5. Wind- en getijgegevens


WINDSNELHEID OPGETR. LOKATIE: HFPL S/F: WI01
WATERSTAND OPGETR. LOKATIE: VLIS S/F: WT02
WINDRICHTING
DIRECTIE ZEELAND
MEETDIENST
VR 970516
ZA 970517
ZO 970518
MA 970519
DI 970520
WO 970521
DO 970522
VR 970523
ZA 970524
meetperiode
M.E.T.
WATERSTAND (cm tov NAP) +WINDSNELHEID (dm/s)
RICHTING in SEX GRD tov NRD

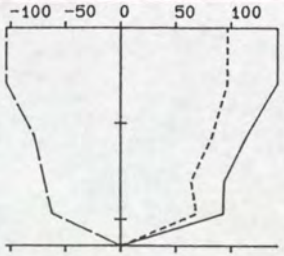
6. Stroomvertikalen



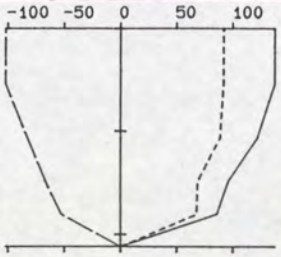
13.43 13.52 126
47 34 -32 298



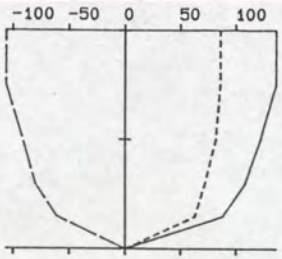
15.00 15.10 117
73 49 -55 303



15.40 15.49 114
109 77 -78 301



16.11 16.22 106
108 77 -77 300



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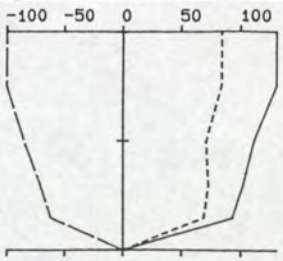
111 73 -83 304



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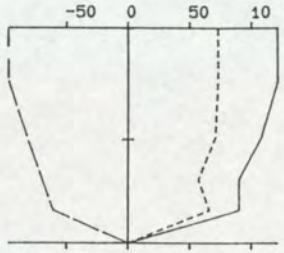
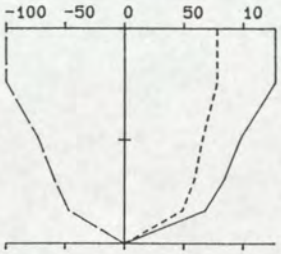
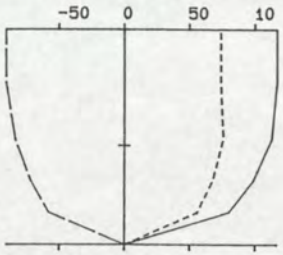


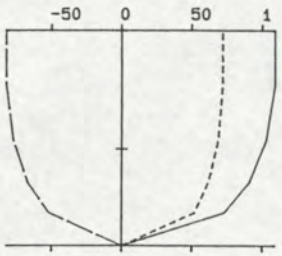
16.56 17.05 97
99 63 -76 305



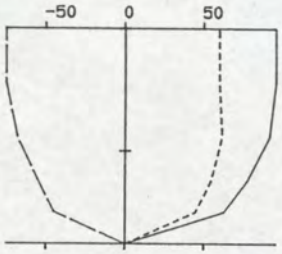
17.10 17.18 97
94 62 -71 304



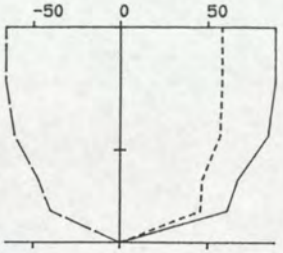
17.24 17.34 93
99 65 -74 304



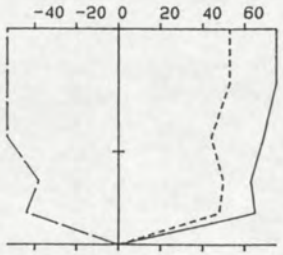
17.39 17.49 91
91 61 -68 303



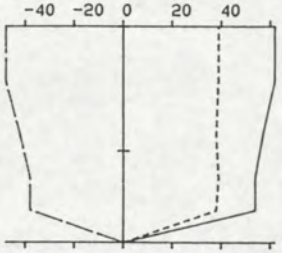
18.01 18.09 88
80 53 -60 304



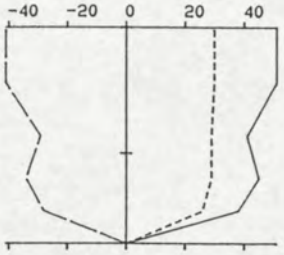
18.14 18.27 88
73 50 -53 302



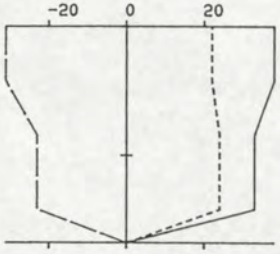
18.32 18.42 88
64 46 -45 300



18.49 18.58 87
54 36 -40 303



19.03 19.11 86
42 27 -32 305



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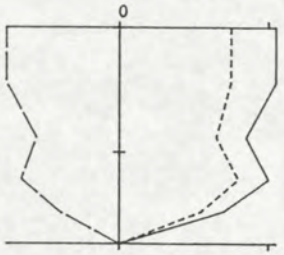
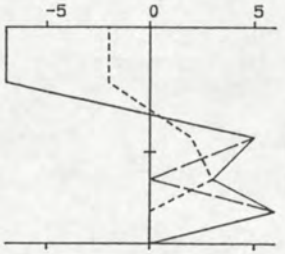
32 21 -24 304



19.33 19.41 87
17 13 -12 297



19.46 19.54 87
1 0 -1 327

TOELICHTING OP DE VERTIKALEN

——— V - - - - - - - VSIN — — — — VCOS

14.01 14.15 295 : BEGINTYD EINDTYD BODEMDIEPTE

100 10 92 265 : V VSIN VCOS A (GEM)

VERTIKALE SCHAAL : DIEPTE IN DM TOV WATEROPP.

HORIZONTALE SCHAAL: SNELHEDEN IN CM/S.

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

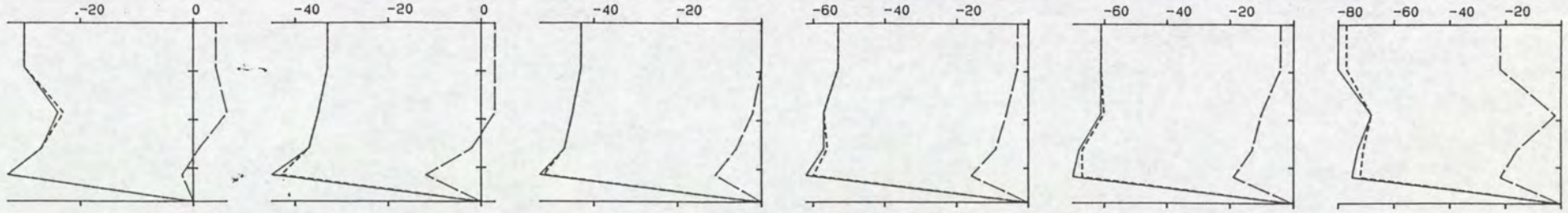
STROOMMETING : Veerhaven Breskens

RAAI : NVT DEELRAAI : NVT PUNT : 4 LOKATIE : WIJ1(-110)

X : 28015.00 Y : 381162.00

DATUM : 970520 CODE: 1826M

A3. 0001



20.35 20.44 185
-26 -26 3 101

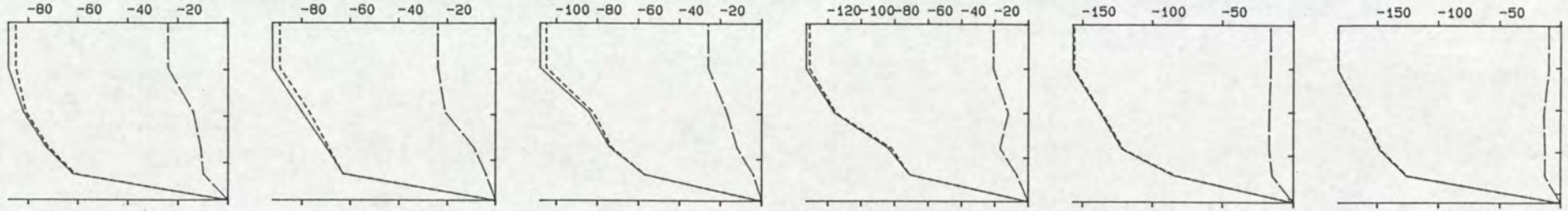
20.50 20.58 186
-33 -33 0 94

21.05 21.15 184
-42 -42 -3 91

21.23 21.33 186
-52 -51 -6 88

21.39 21.47 188
-59 -58 -9 86

21.54 22.05 189
-69 -67 -15 83



22.11 22.19 190
-74 -72 -16 83

22.25 22.33 194
-74 -72 -16 83

22.39 22.47 196
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-101-100 -15 87

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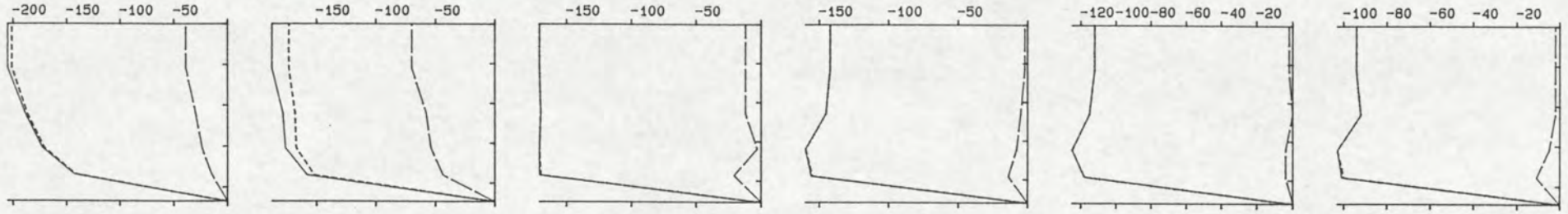
-124-123 -15 88

23.30 23.39 211
-149-149 -11 91



23.45 23.56 217
-171-169 -28 86

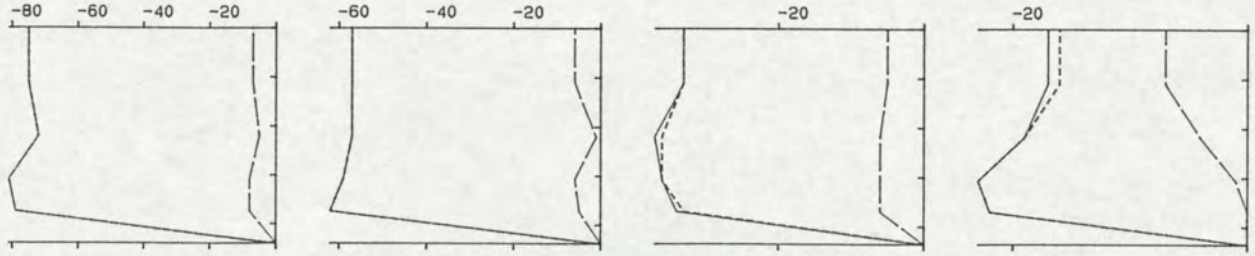
.07 .15 223
-164-155 -55 75

.23 .32 227
-158-158 -11 91

.39 .49 230
-137-137 -5 93

1.00 1.10 230
-108-108 -2 94

1.15 1.24 222
-89 -89 -4 93



1.31 1.39 220
-71 -70 -6 90

1.45 1.54 219
-54 -54 -4 90

1.59 2.07 218
-32 -32 -5 86

2.11 2.19 218
-18 -18 -4 83

TOELICHTING OP DE VERTIKALEN

——— V - - - - - - - VSIN — — — VCOS

14.01 14.15 295 : BEGINTYD EINDTYD BODEMDIEPTE

100 10 92 265 : V VSIN VCOS R (GEM)

VERTIKALE SCHAAL : DIEPTE IN DM TOV WATEROPP.

HORIZONTALE SCHAAL: SNELHEDEN IN CM/S.

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

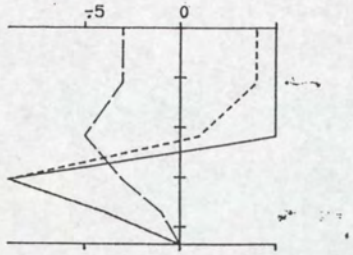
STROOMMETING : Veerhaven Breskens

RAAI : NVT DEELRAAI : NVT PUNT : 5 LOKATIE : WIJ2(-306)

X : 26008.00 Y : 382020.00

DATUM : 970520 CODE: 1826M

A3. 0001



2.24 2.32 218
-3 0 -3 13

TOELICHTING OP DE VERTIKALEN

——— V - - - - - - - VSIN — — — — VCOS

14.01 14.15 295 : BEGINTYD EINDTYD BODEMDIEPTE

100 10 92 265 : V VSIN VCOS R (GEM)

VERTIKALE SCHAAL : DIEPTE IN DM TOV WATEROPP.

HORIZONTALE SCHAAL: SNELHEDEN IN CM/S.

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

STROOMMETING : Veerhaven Breskens

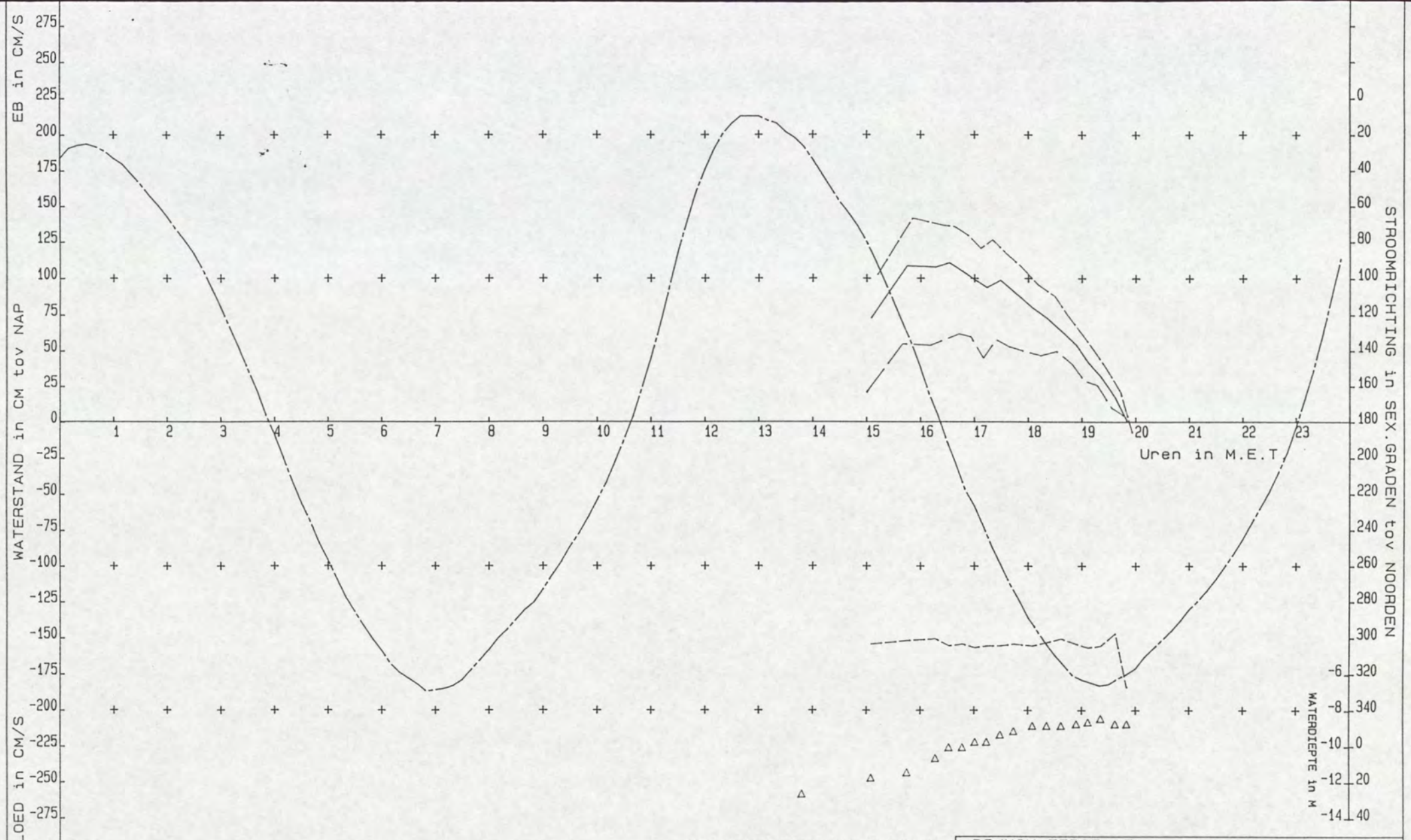
RAAI : NVT DEELRAAI : NVT PUNT : 5 LOKATIE : WIJ2 (-306)

X : 26008.00 Y : 382020.00

DATUM : 970521 CODE: 1826M

A3. 0002

7. Stroomsnelheids- en stroomrichtingsgrafieken

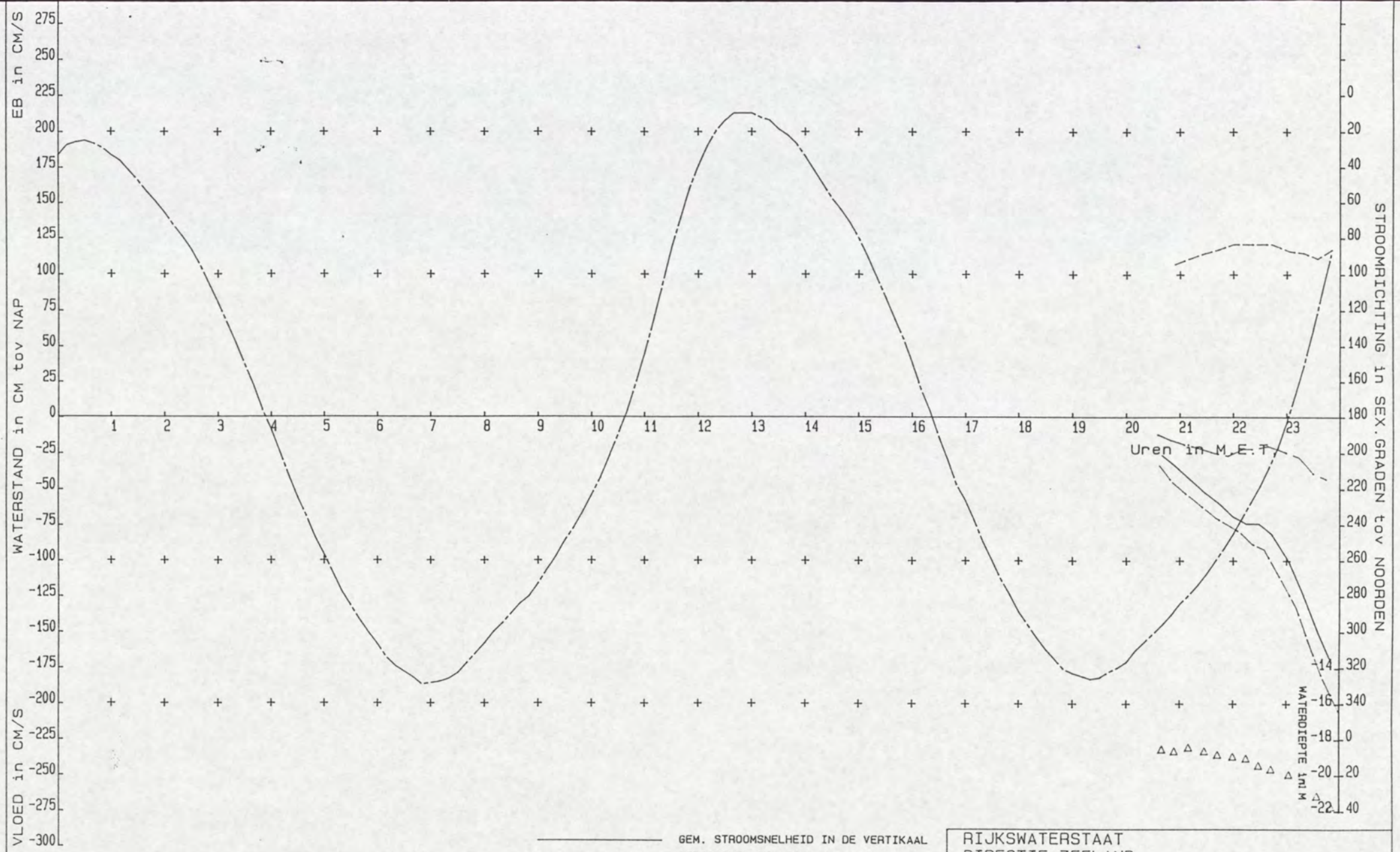


RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

STROOMMETING : Veerhaven Breskens
RAAI : NVT DEELRAAI : NVT PUNT : 4 LOKATIE : WIJ1(-110)
X : 28015.00 Y : 381162.00
DATUM : 970520 CODE: 1826M

A3 0001

VOOR SITUATIE MEETPUNT ZIE TEK: A3

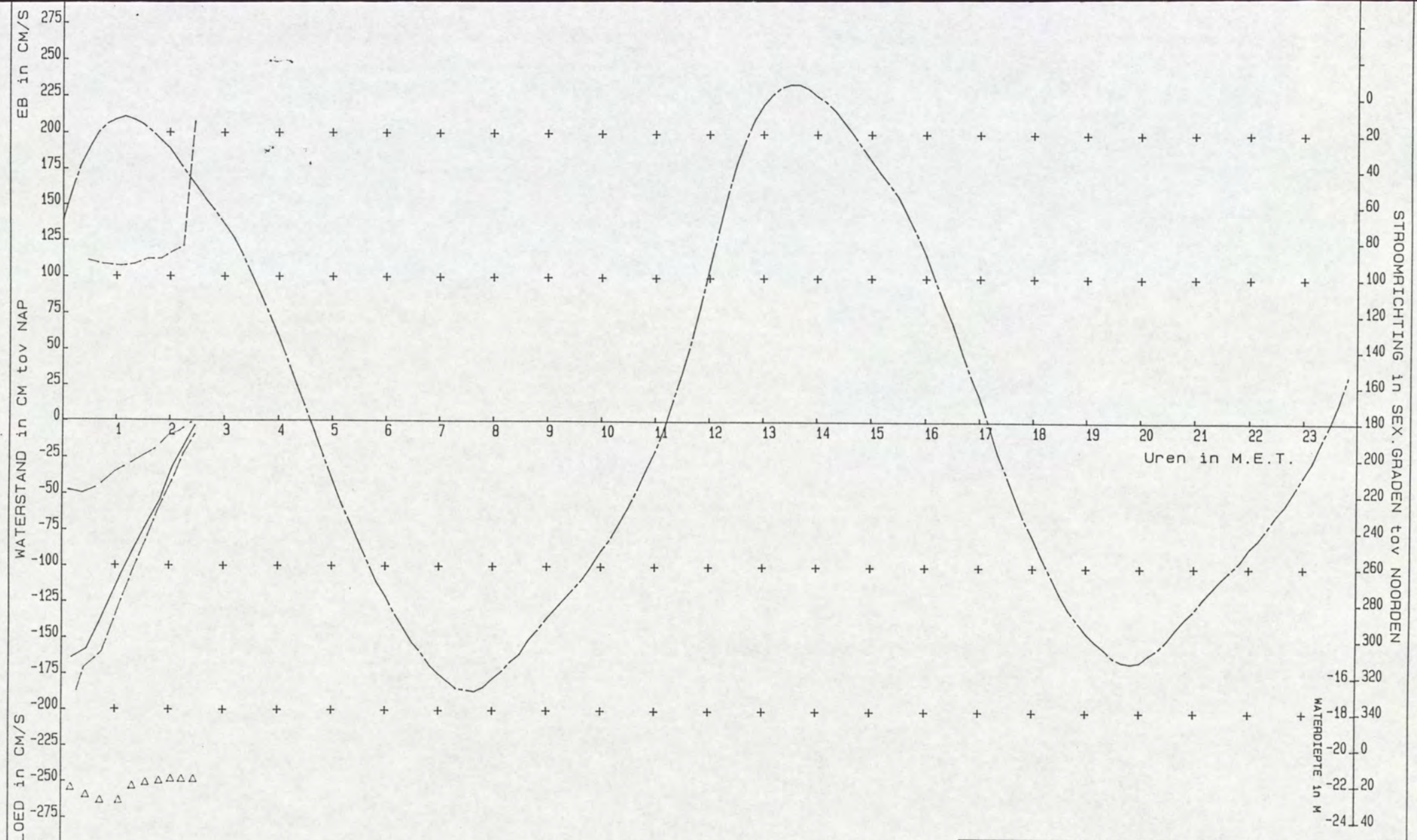


VOOR SITUATIE MEETPUNT ZIE TEK: A3

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

STROOMMETING : Veerhaven Breskens
RAAI : NVT DEELRAAI : NVT PUNT : 5 LOKATIE : WIJ2(-306)
X : 26008.00 Y : 382020.00
DATUM : 970520 CODE: 1826M

A3 0001



RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

STROOMMETING : Veerhaven Breskens
RAAI : NVT DEELRAAI : NVT PUNT : 5 LOKATIE : WIJ2 (-306)
X : 26008.00 Y : 382020.00
DATUM : 970521 CODE: 1826M

A3 0002

VOOR SITUATIE MEETPUNT ZIE TEK: A3

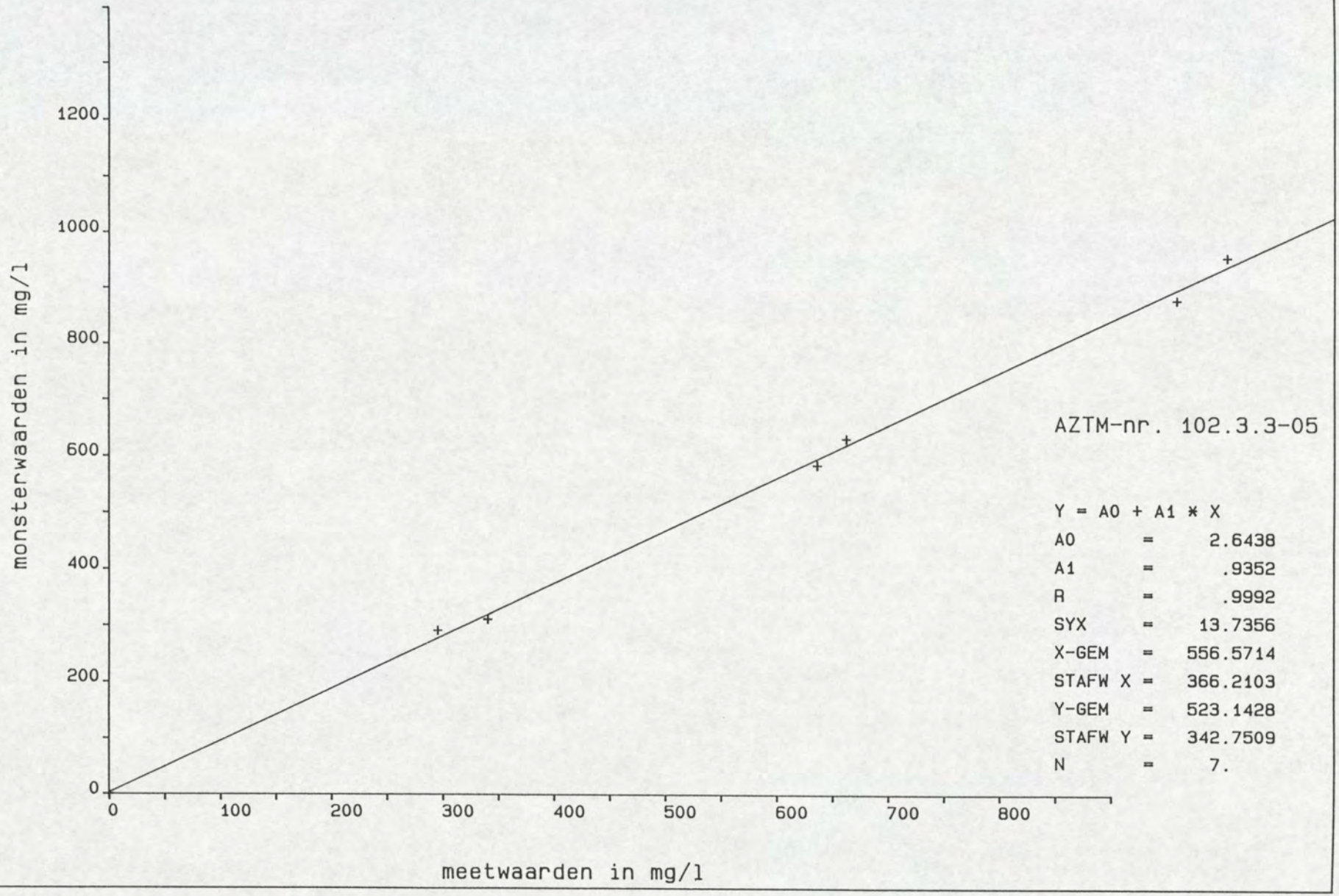
8. IJklijn AZTM

AZTM-meting: 20 en 21 april 1997

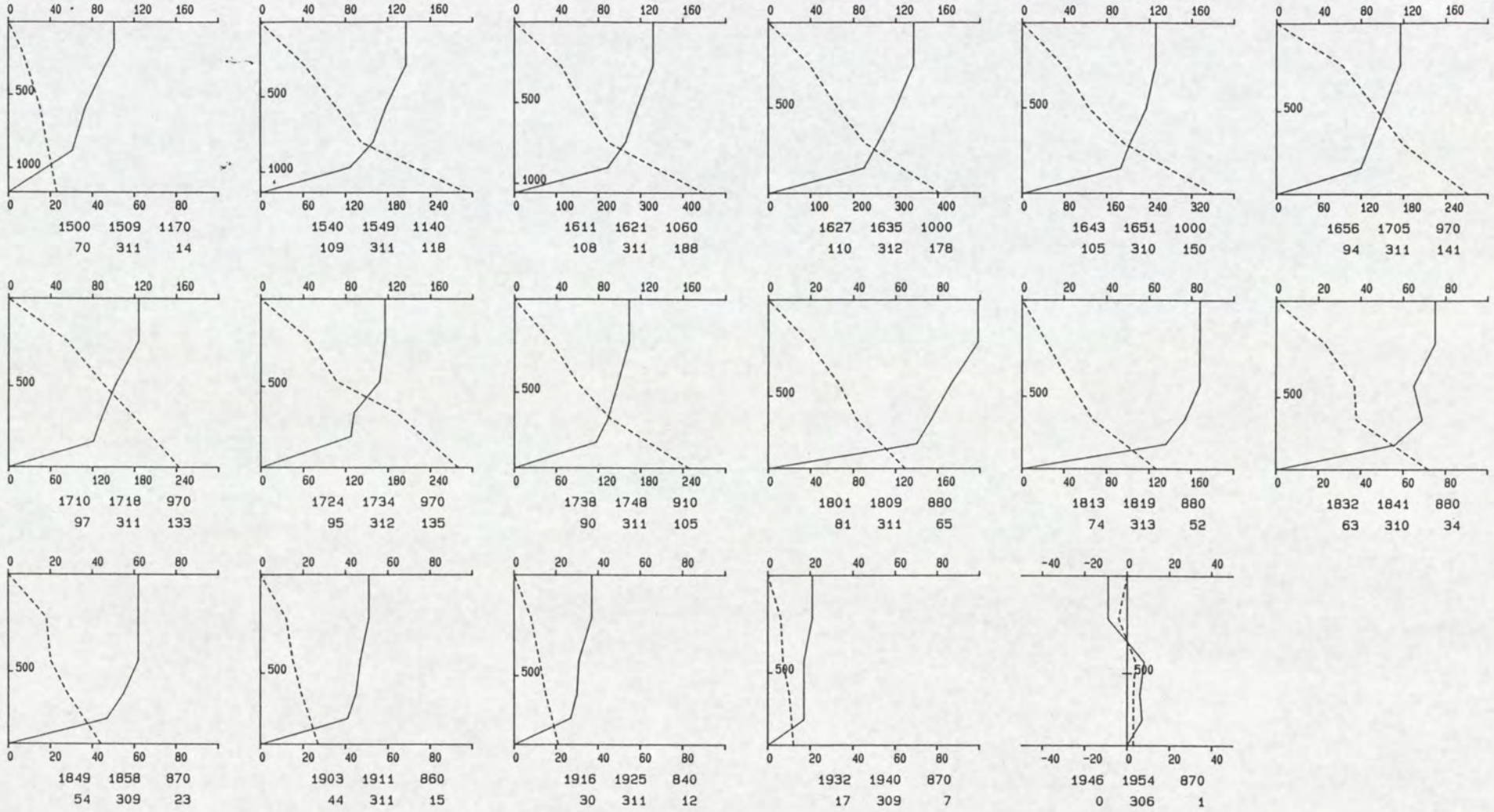
Veerhaven Breskens

meetpunt 4 en 5 Wijtvliet

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



9. Vertikalen - zandconcentratie

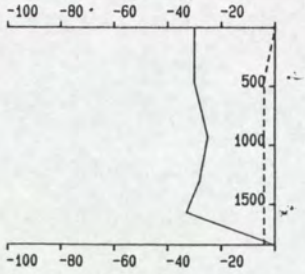


RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

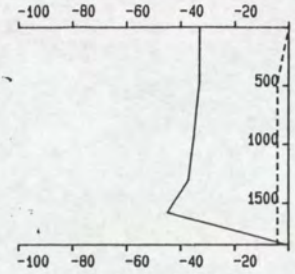
SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 4 VAART.: WIJTVLIET
X-COORDINAAT : 28018 Y-COORDINAAT : 381165

TOELICHTING OP DE VERTIKALEN

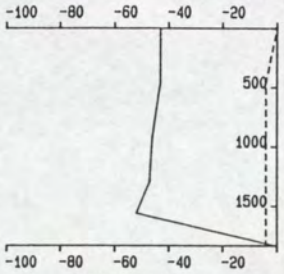
———— V ---------- C
14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)



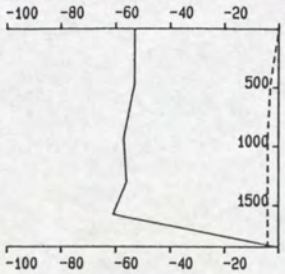
2034 2043 1850
-27 40 -4



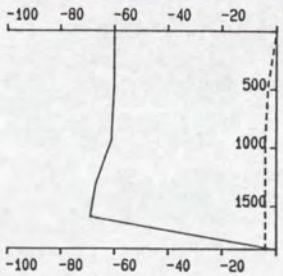
2050 2058 1860
-33 85 -3



2105 2115 1840
-42 86 -4



2123 2132 1860
-52 88 -3



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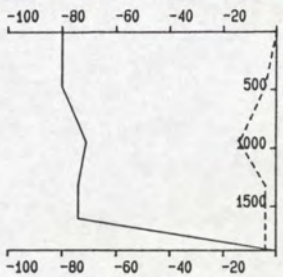
-58 88 -3



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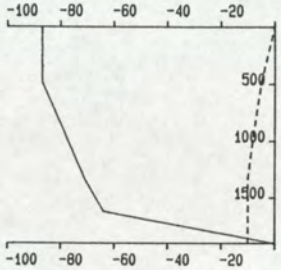
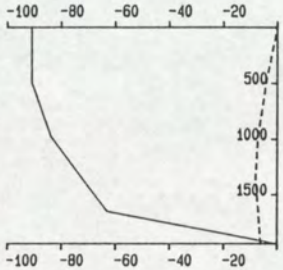
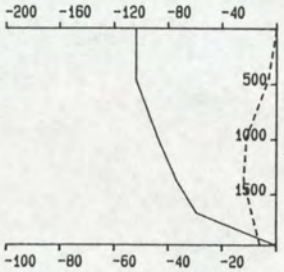


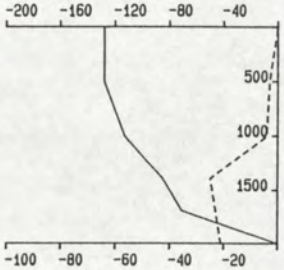
2211 2219 1900
-72 80 -7



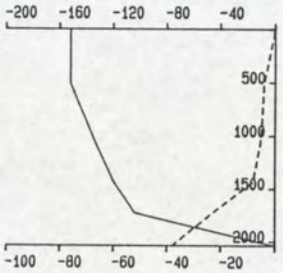
2224 2233 1940
-75 82 -5



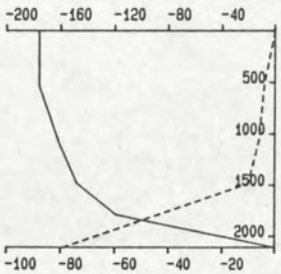
2238 2247 1960
-81 82 -7



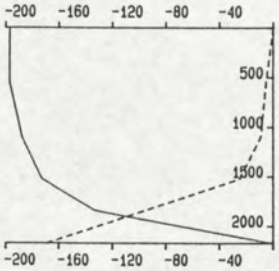
2257 2308 1990
-99 85 -11



2314 2322 2040
-124 90 -10



2329 2338 2110
-146 89 -17



2346 2356 2170
-166 88 -35

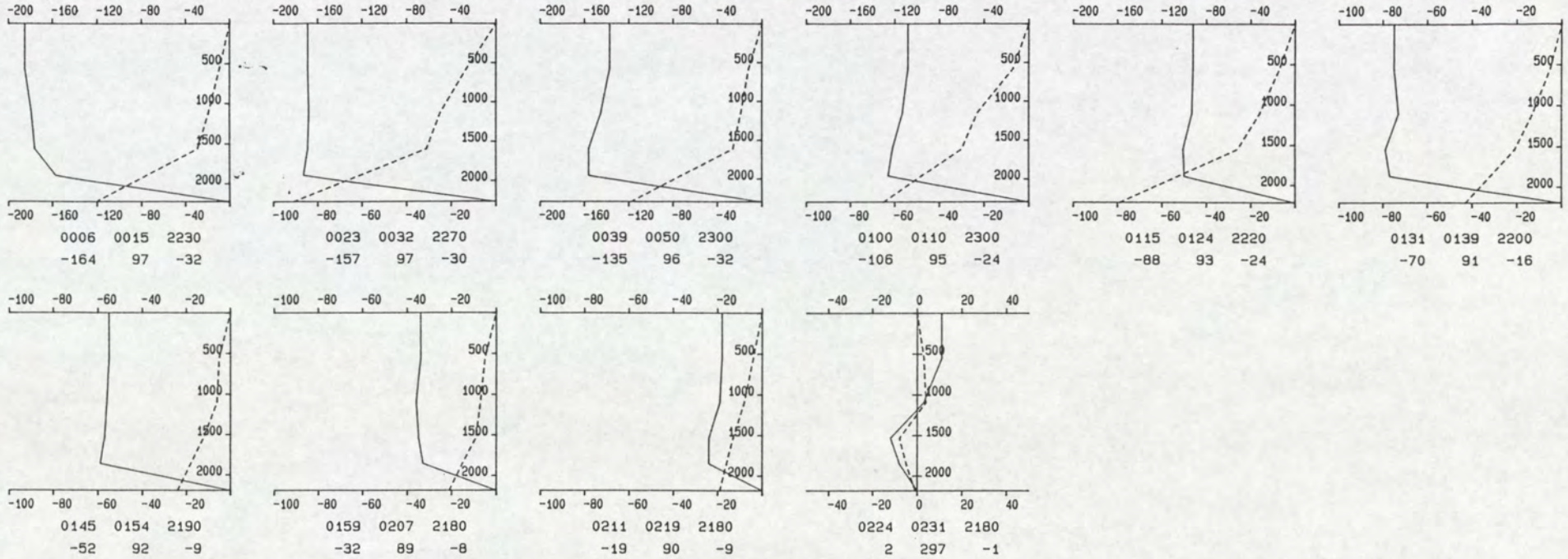
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 25986 Y-COORDINAAT : 382012

TOELICHTING OP DE VERTIKALEN

_____ V ---------- C

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)



RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

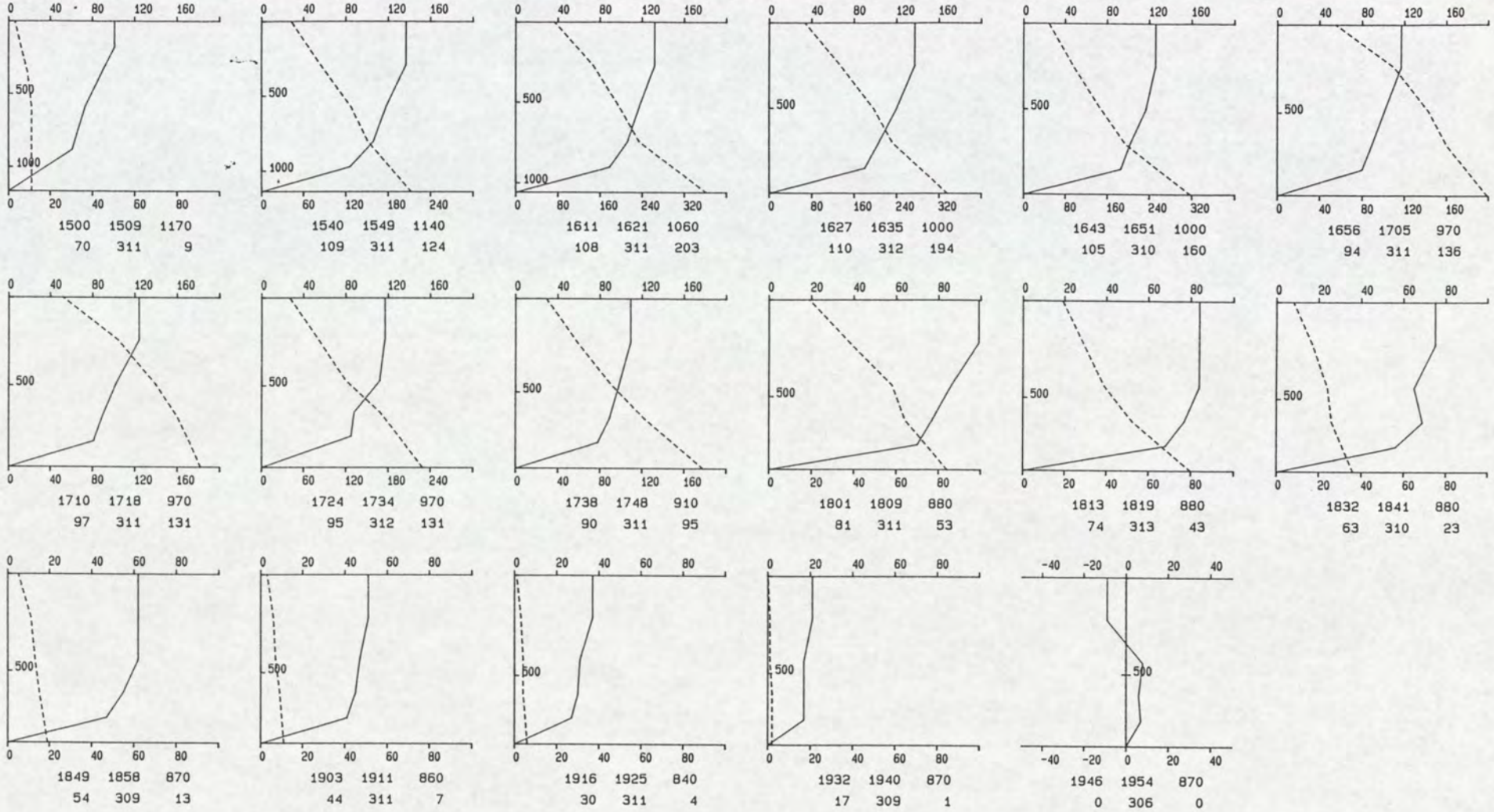
SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970521
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 26025 Y-COORDINAAT : 382019

TOELICHTING OP DE VERTIKALEN

_____ V ---------- C

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)

10. Vertikalen - zandtransport + tabel totaal transport



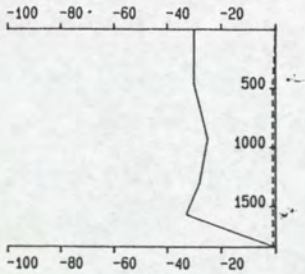
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 4 VAART.: WIJTVLIET
X-COORDINAAT : 28018 Y-COORDINAAT : 381165

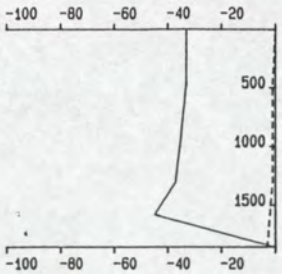
TOELICHTING OP DE VERTIKALEN

_____ V ---------- T

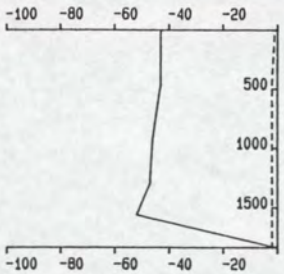
14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)



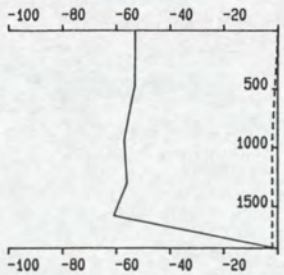
2034 2043 1850
-27 40 -1



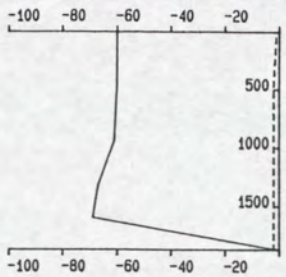
2050 2058 1860
-33 85 -1



2105 2115 1840
-42 86 -2



2123 2132 1860
-52 88 -1



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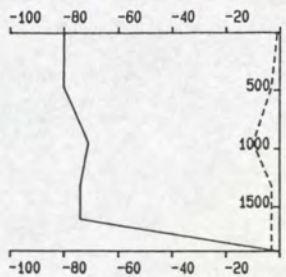
-58 88 -2



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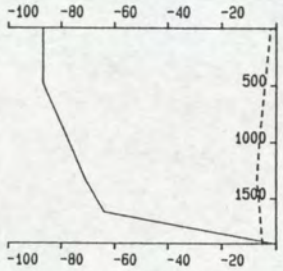
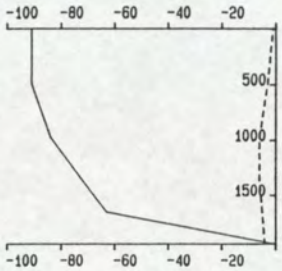
-70 85 -4



2211 2219 1900
-72 80 -5



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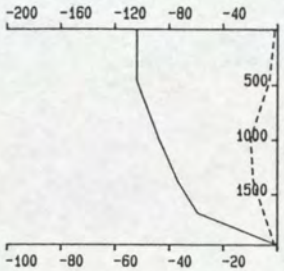
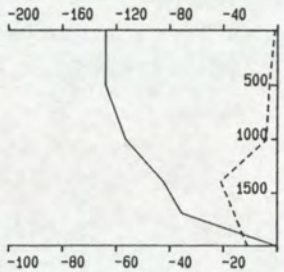
-75 82 -4



2238 2247 1960
-81 82 -6



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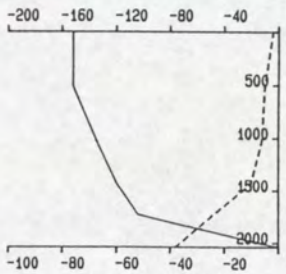
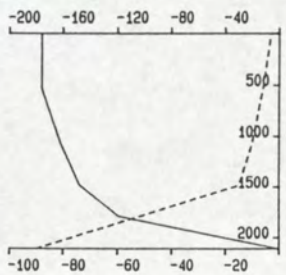
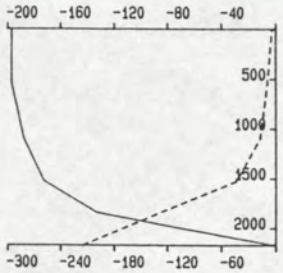


2314 2322 2040
-124 90 -11



2329 2338 2110
-146 89 -21



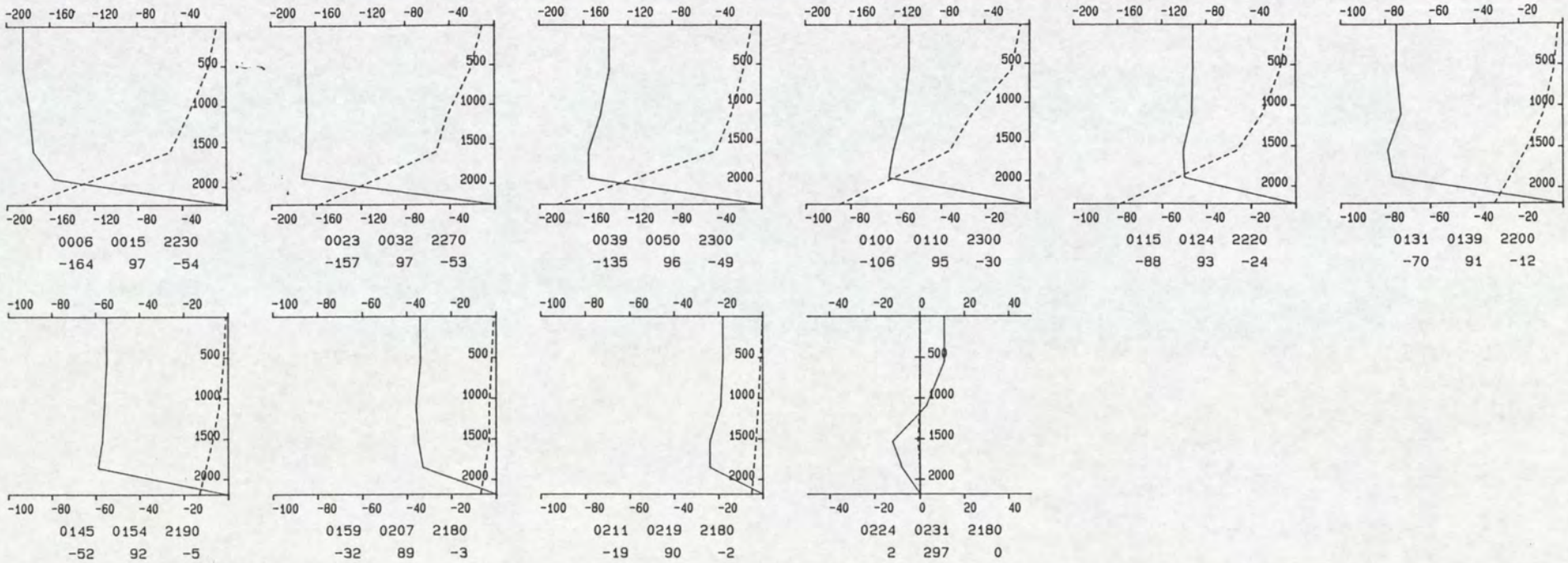
2346 2356 2170
-166 88 -50

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 25986 Y-COORDINAAT : 382012

TOELICHTING OP DE VERTIKALEN

———— V ---------- T
14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)



RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : VEERHAVEN BRESKENS
DATUM : 970521
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 26025 Y-COORDINAAT : 382019

TOELICHTING OP DE VERTIKALEN

_____ V ---------- T

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)

/AZTM/ADMI/ZTM25A.DAT

R E S U L T A T E N PER V E R T I K A A L GEMIDDELD

LOKATIE: VEERH BRESKENS MP 4 ;VAART.: WIJTVLIET
FILENAAM: AZTM05V97052015

TIJD MET	DIEPTE cm	Vgem cm/s	Ttot g/m.s
1504	1170	70.	109.
1544	1140	109.	1417.
1616	1060	108.	2151.
1631	1000	110.	1944.
1647	1000	105.	1595.
1700	970.	94.	1323.
1714	970.	97.	1272.
1729	970.	95.	1274.
1743	910.	90.	868.
1805	880.	81.	471.
1820	880.	75.	371.
1836	880.	63.	199.
1853	870.	54.	113.
1907	860.	44.	63.
1920	840.	30.	31.
1936	870.	17.	12.
1950	870.	0.	0.

/AZTM/ADMI/ZTM25A.DAT

R E S U L T A T E N PER V E R T I K A A L GEMIDDELD

LOKATIE: VEERH BRESKENS MP 5 ;VAART.: WIJTVLIET
FILENAAM: AZTM05V97052020

TIJD MET	DIEPTE cm	Vgem cm/s	Ttot g/m.s
2038	1850	-27.	-17.
2054	1860	-33.	-23.
2110	1840	-42.	-34.
2127	1860	-52.	-29.
2142	1880	-58.	-35.
2159	1890	-70.	-83.
2215	1900	-72.	-97.
2228	1940	-75.	-85.
2242	1960	-81.	-111.
2302	1990	-99.	-173.
2318	2040	-124	-228.
2333	2110	-146	-450.
2351	2170	-166	-1078.

/AZTM/ADMI/ZTM25A.DAT

```
00001  ---------------------------------------------------------
00002  R E S U L T A T E N  PER  V E R T I K A A L GEMIDDELD
00003  .........................................................
00004  LOKATIE: VEERH BRESKENS  MP 5 ;VAART.: WIJTVLIET
00005  FILENAAM: AZTM05V97052100
00006  ---------------------------------------------------------
00007  |  TIJD  | DIEPTE |  Vgem  |  Ttot  |
00008  |   MET  |   cm   |  cm/s  |  g/m.s |
00009  |--------|--------|--------|--------|
00010  |     10 |   2230 |   -164 |  -1197.|
00011  |     27 |   2270 |   -157 |  -1202.|
00012  |     44 |   2300 |   -135 |  -1128.|
00013  |    105 |   2300 |   -106 |   -693.|
00014  |    119 |   2220 |   -88. |   -533.|
00015  |    135 |   2200 |   -70. |   -268.|
00016  |    149 |   2190 |   -52. |   -114.|
00017  |    203 |   2180 |   -32. |    -68.|
00018  |    215 |   2180 |   -19. |    -49.|
00019  |    227 |   2180 |     2. |     -2.|
00020  ---------------------------------------
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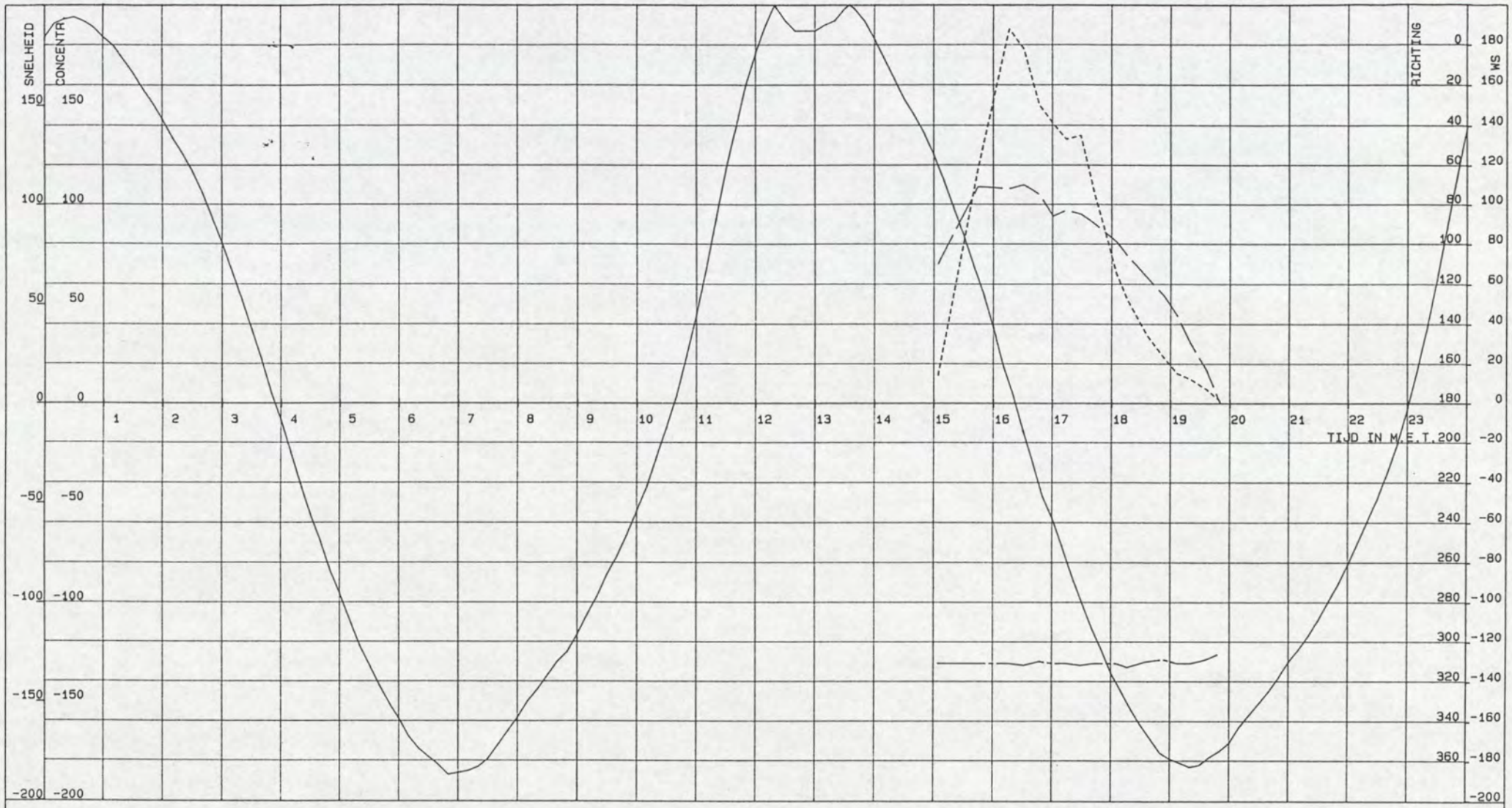
11. Gemiddelde krommen - zandconcentratie



VEERHAVEN BRESKENS MEETPUNT 4

_____ GETIJLIJN VLIS .cm. ____ ____ . SNELHEID.cm/s. ---------- CONCENTRATIE.mg/l. _____ _ _ RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

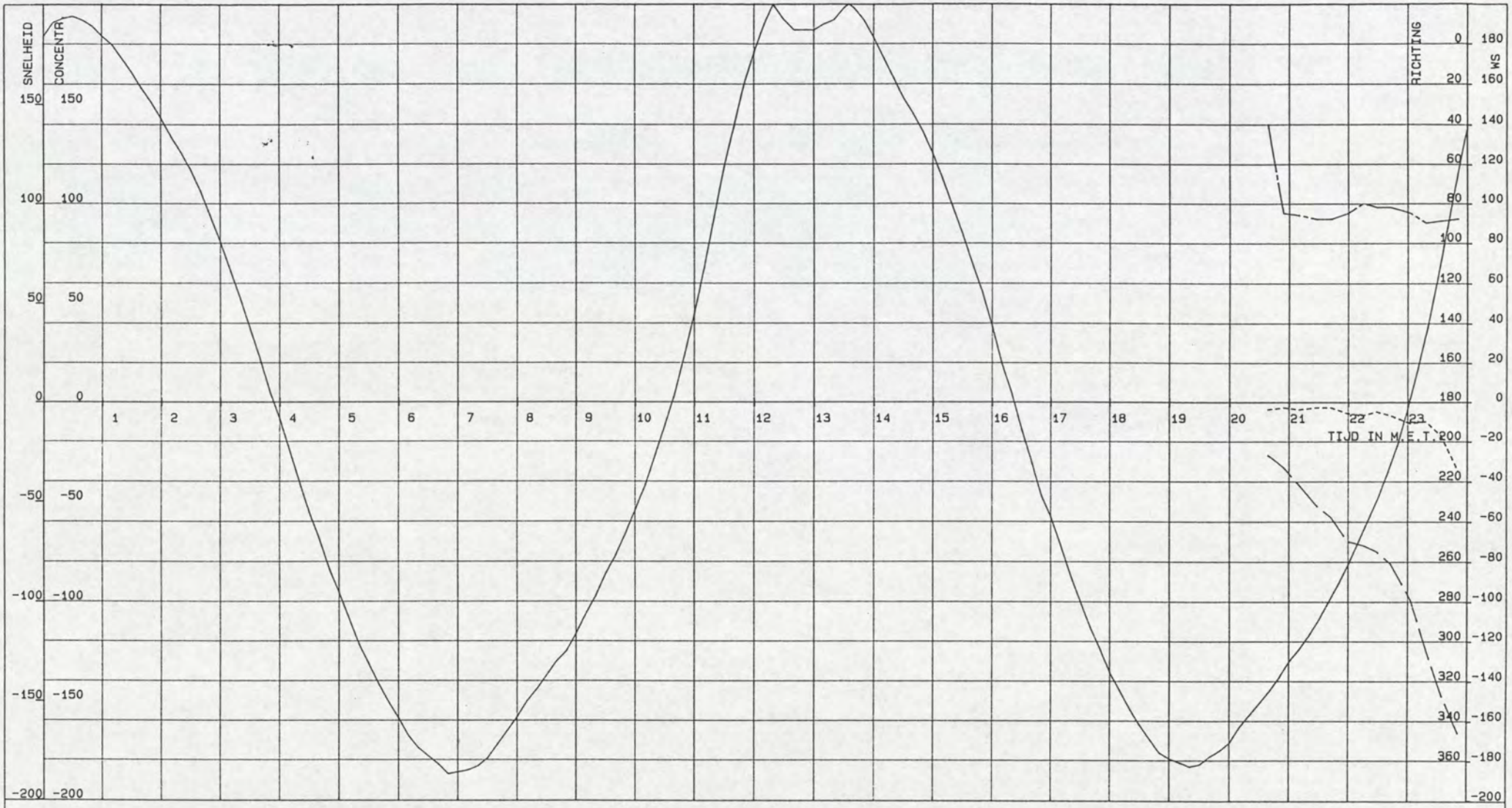
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 28018
POSITIE.Y. : 381165

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 15 u 00
EINDTIJD : 19 u 54

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



VEERHAVEN BRESKENS MEETPUNT 5

GETIJLIJN VLIS .cm. . SNELHEID.cm/s. CONCENTRATIE.mg/l. RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

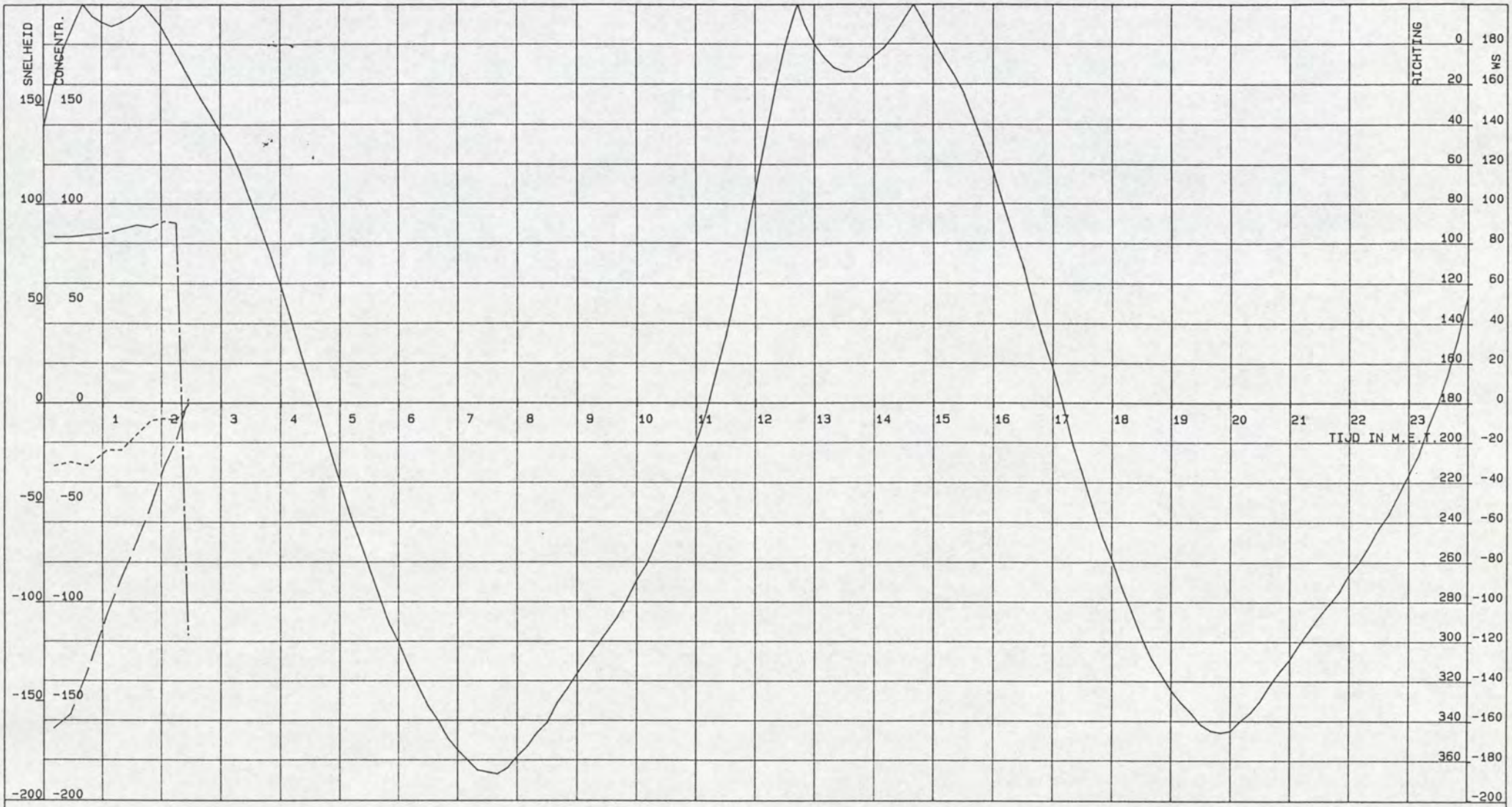
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 25986
POSITIE.Y. : 382012

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 20 u 34
EINDTIJD : 23 u 56

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



VEERHAVEN BRESKENS MEETPUNT 5

———— GETIJLIJN VLIS .cm. —— —— . SNELHEID.cm/s. ---------- CONCENTRATIE.mg/l. ——— - —— RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

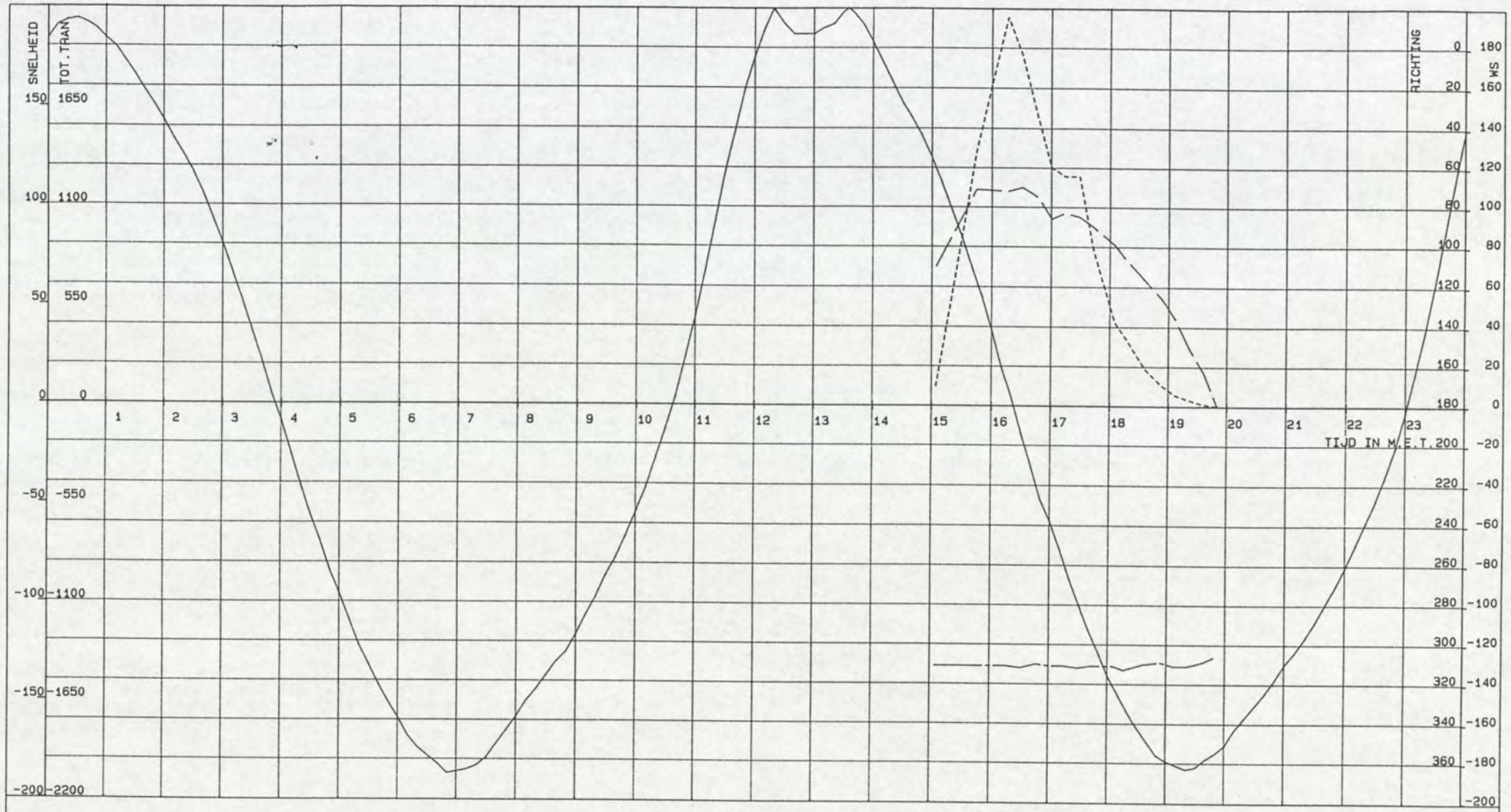
POSITIE.X. : 26025
POSITIE.Y. : 382019

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 21-05-1997
STARTTIJD : 00 u 06
EINDTIJD : 02 u 31

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

12. Gemiddelde krommen - zandtransport



VEERHAVEN BRESKENS

MEETPUNT 4

———— GETIJLIJN VLIS .cm. — — . SNELHEID.cm/s. ---------- TOTAAL TRANSPORT .g/ms. ——— RICHTING.deg. GEMID. V EN R; TOTAAL T OVER VERTIKAAL

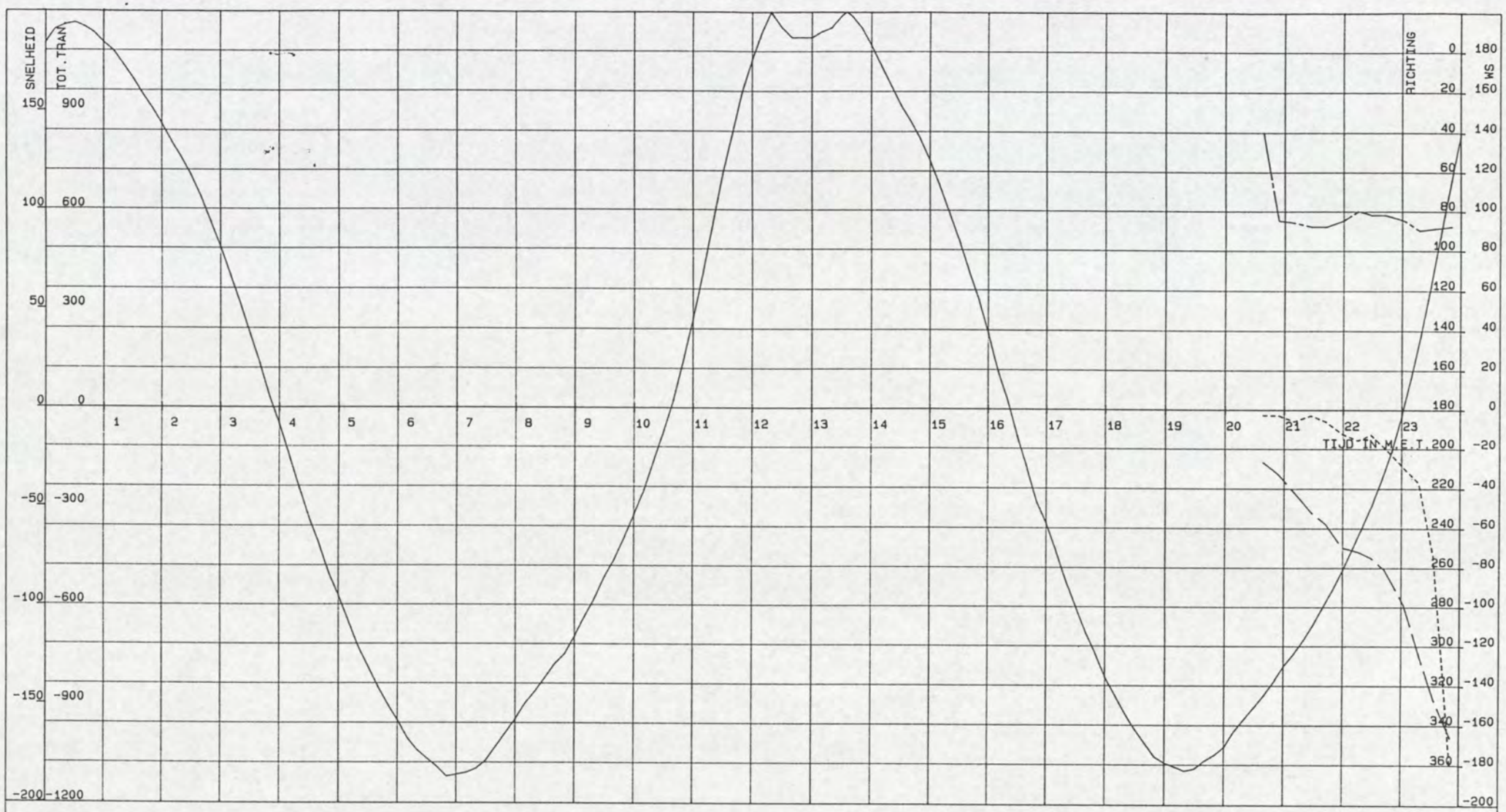
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 28018
POSITIE.Y. : 381165

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 15 u 00
EINDTIJD : 19 u 54

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



VEERHAVEN BRESKENS MEETPUNT 5

———— GETIJLIJN VLIS .cm. ——— ——— . SNELHEID.cm/s. ---------- TOTAAL TRANSPORT .g/ms. ———— RICHTING.deg. GEMID. V EN R; TOTAAL T OVER VERTIKAAL

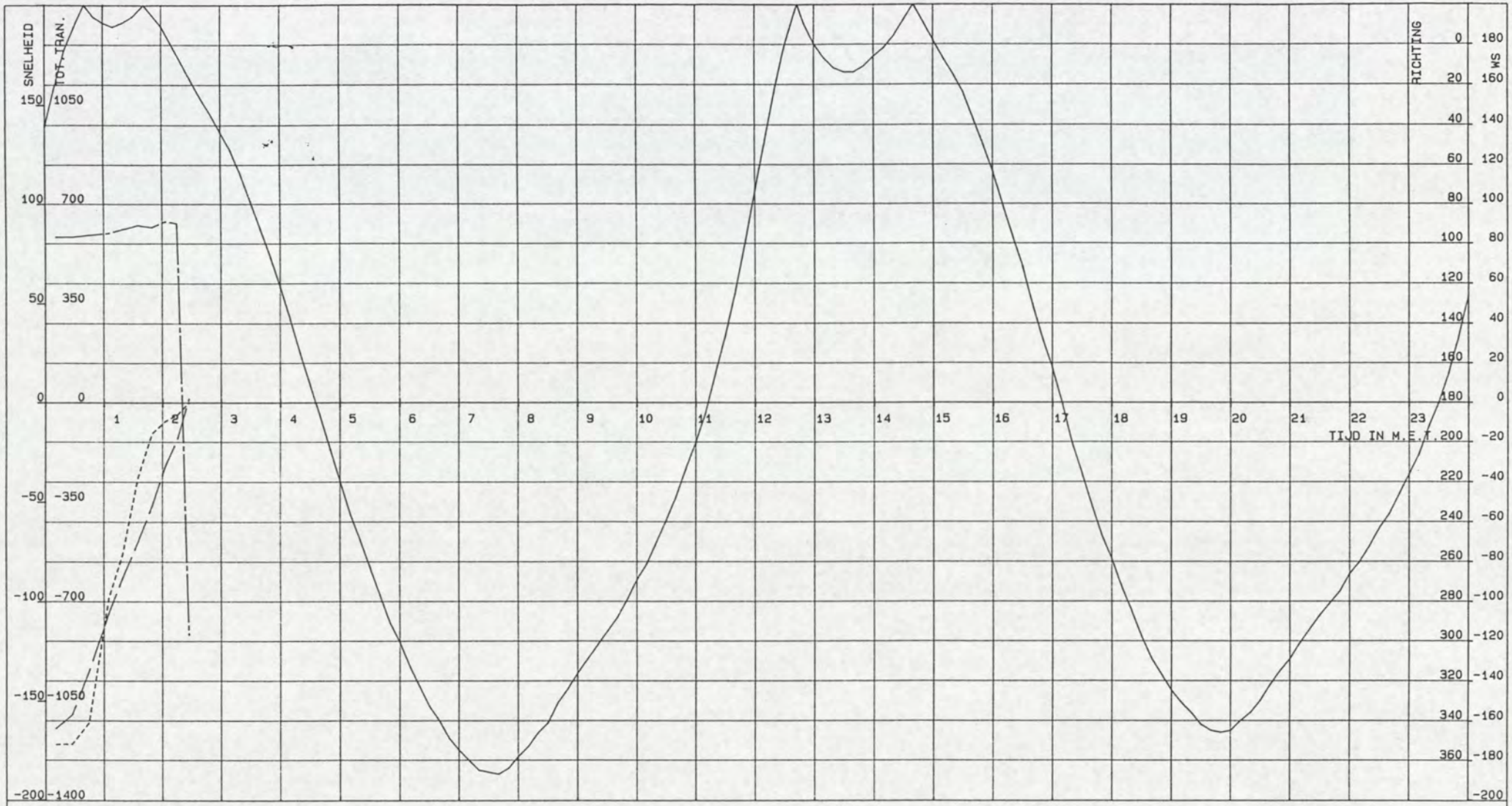
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 25986
POSITIE.Y. : 382012

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 20 u 34
EINDTIJD : 23 u 56

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



VEERHAVEN BRESKENS MEETPUNT 5

_____ GETIJLIJN VLIS .cm. ____ ____ . SNELHEID.cm/s. ---------- TOTAAL TRANSPORT .g/ms. _____ _____ RICHTING.deg. GEMID. V EN R; TOTAAL T OVER VERTIKAAL

VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 26025
POSITIE.Y. : 382019

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 21-05-1997
STARTTIJD : 00 u 06
EINDTIJD : 02 u 31

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

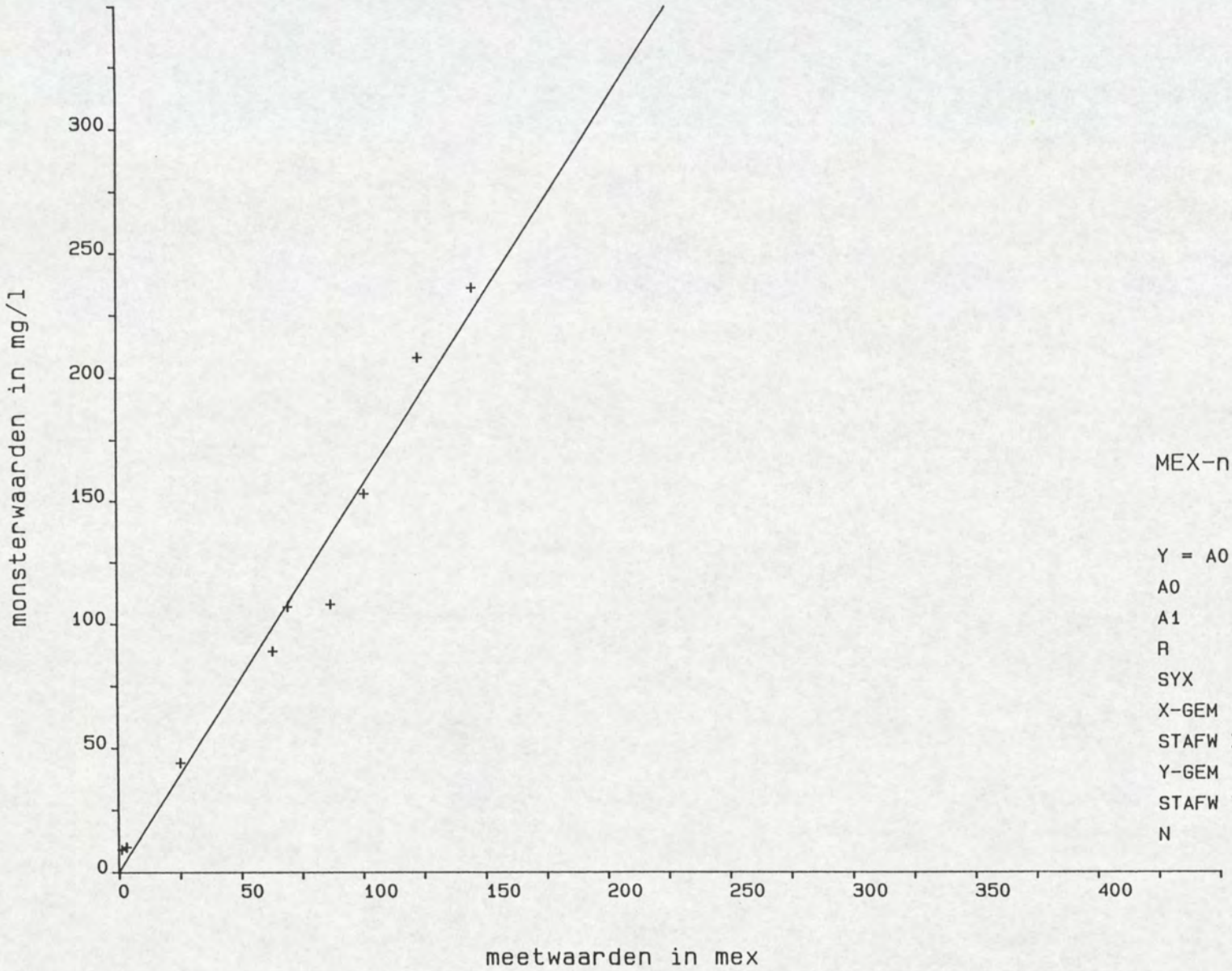
13. IJklijn MEX

MEX-meting: 20 en 21 april 1997

Veerhaven Breskens

meetpunt 4 en 5 Wijtvliet

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

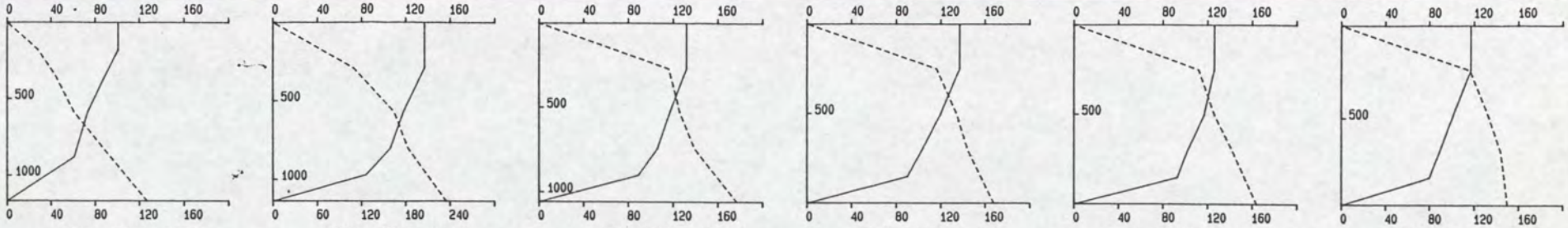


MEX-nr. 4481A09

Y = A0 + A1 * X

A0	=	.3287
A1	=	1.5576
R	=	.9871
SYX	=	12.9417
X-GEM	=	68.5556
STAFW X	=	51.2228
Y-GEM	=	107.1111
STAFW Y	=	80.8277
N	=	9.

14. Vertikalen - slibconcentratie



1500 1509 1170
70 311 65

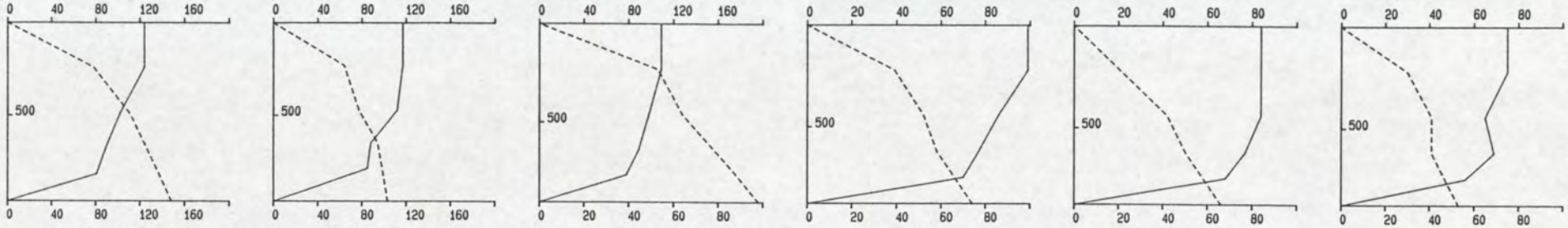
1540 1549 1140
109 311 145

1611 1621 1060
108 311 118

1627 1635 1000
110 312 120

1643 1651 1000
105 310 116

1656 1705 970
94 311 118



1710 1718 970
97 311 98

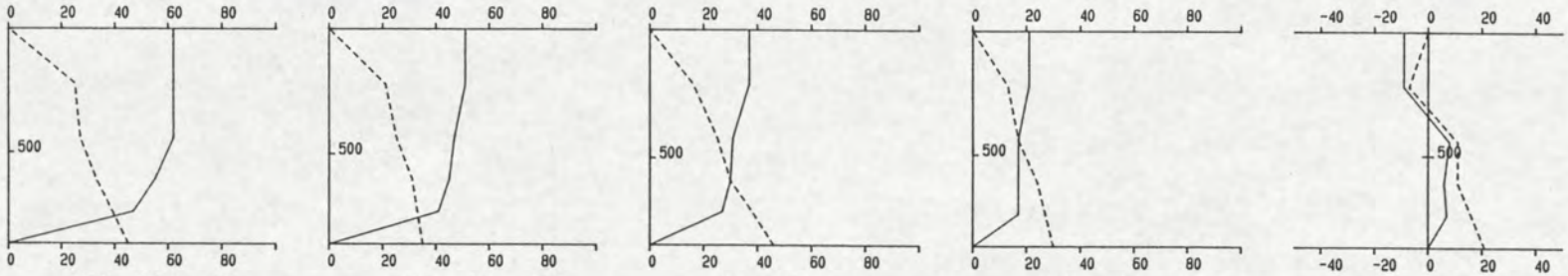
1724 1734 970
95 312 73

1738 1748 910
90 311 62

1801 1809 880
81 311 47

1813 1819 880
74 313 37

1832 1841 880
63 310 35



1849 1858 870
54 309 27

1903 1911 860
44 311 24

1916 1925 840
30 311 24

1932 1940 870
17 309 18

1946 1954 870
0 306 7

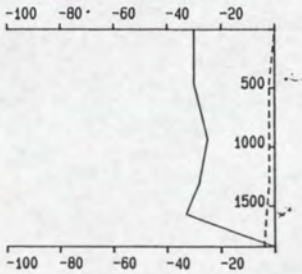
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 4 VAART.: WIJTVLIET
X-COORDINAAT : 28018 Y-COORDINAAT : 381165

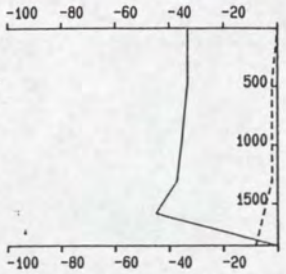
TOELICHTING OP DE VERTIKALEN

_____ V ---------- C

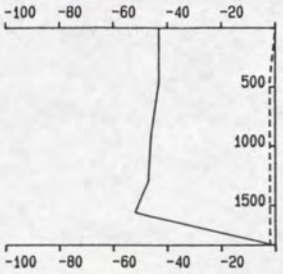
14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)



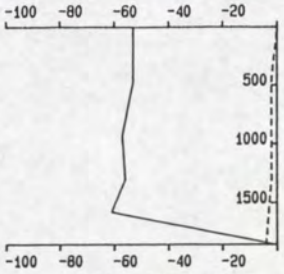
2034 2043 1850
-27 40 -2



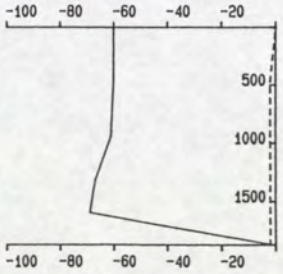
2050 2058 1860
-33 85 -3



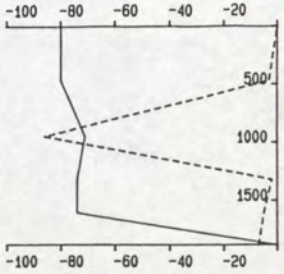
2105 2115 1840
-42 86 -2



2123 2132 1860
-52 88 -2



2138 2147 1880
-58 88 -2



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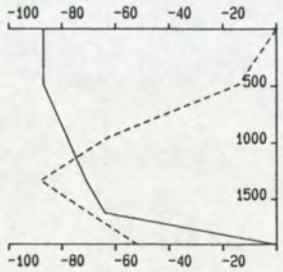
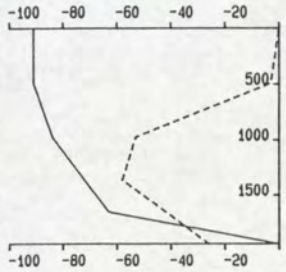
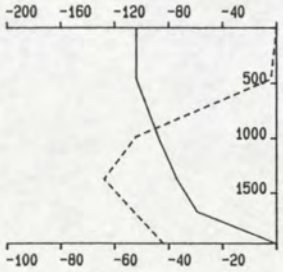
-70 85 -22



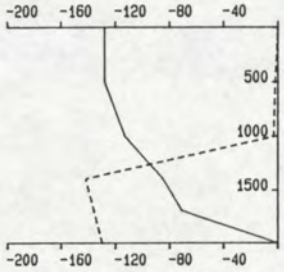
2211 2219 1900
-72 80 -47



2224 2233 1940
-75 82 -31



2238 2247 1960
-81 82 -35



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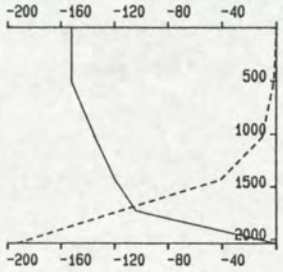
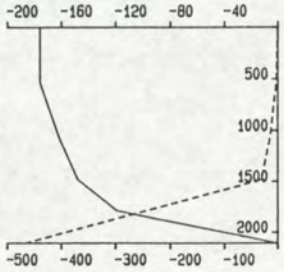
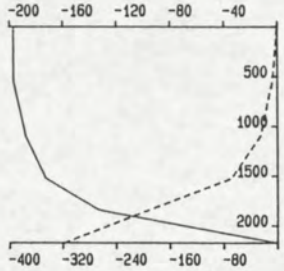
-99 85 -56



2314 2322 2040
-124 90 -42



2329 2338 2110
-146 89 -81



2346 2356 2170
-166 88 -72

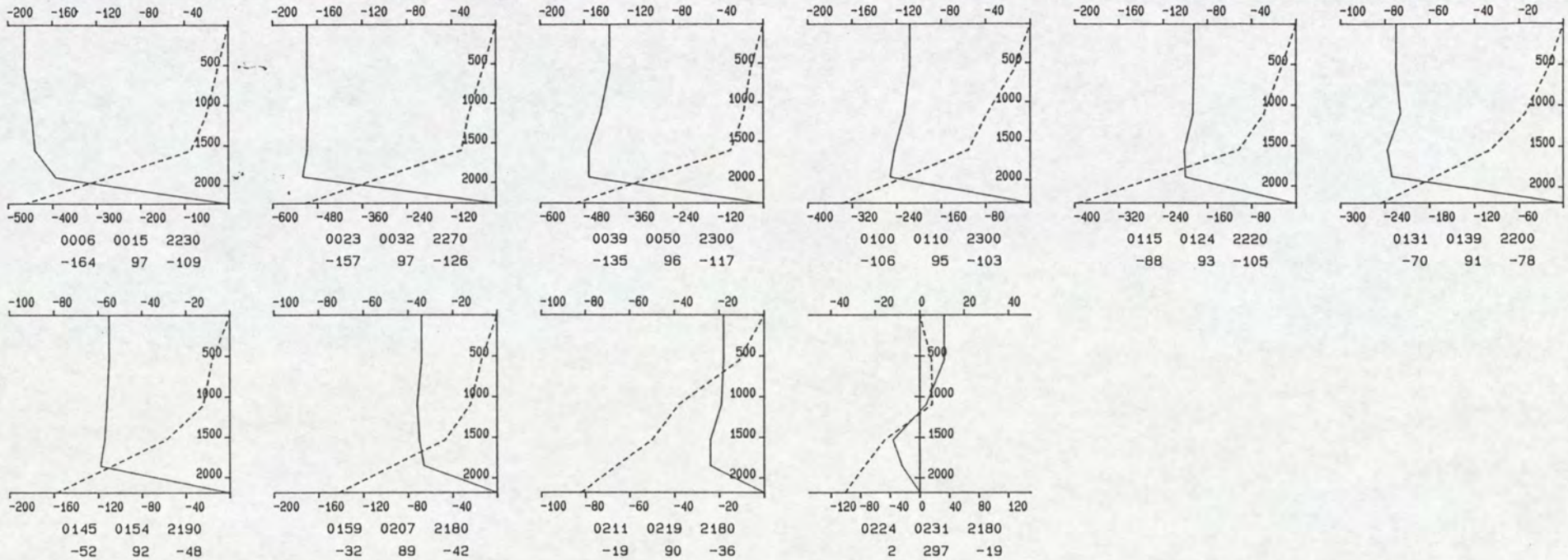
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WYTVLIET
X-COORDINAAT : 25986 Y-COORDINAAT : 382012

TOELICHTING OP DE VERTIKALEN

_____ V ---------- C

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)



RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

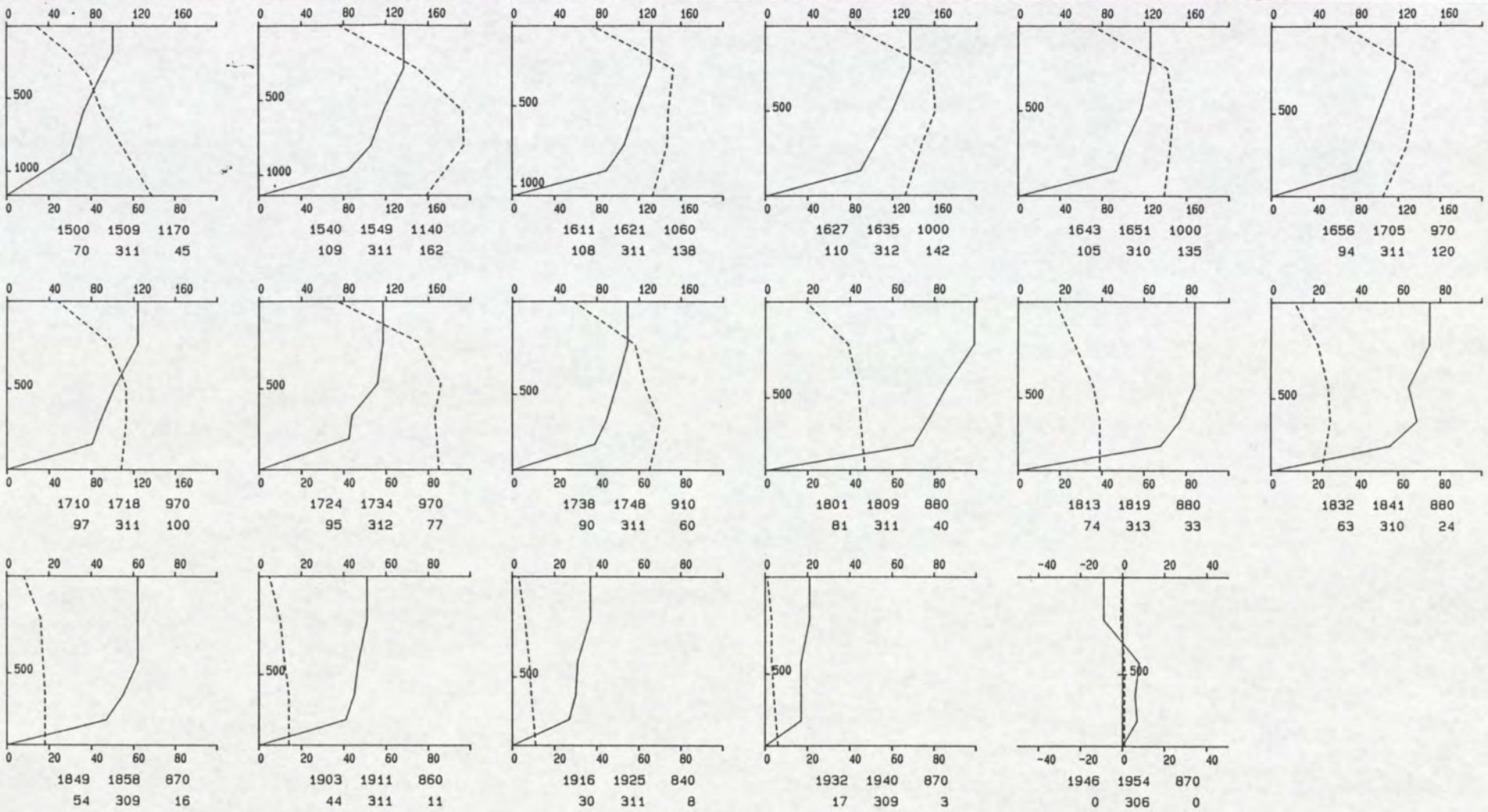
SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970521
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 26025 Y-COORDINAAT : 382019

TOELICHTING OP DE VERTIKALEN

_____ V ---------- C

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R C (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
CONCENTRATIE IN MG/L (ONDER)

15. Vertikalen - slibtransport + tabel totaal transport



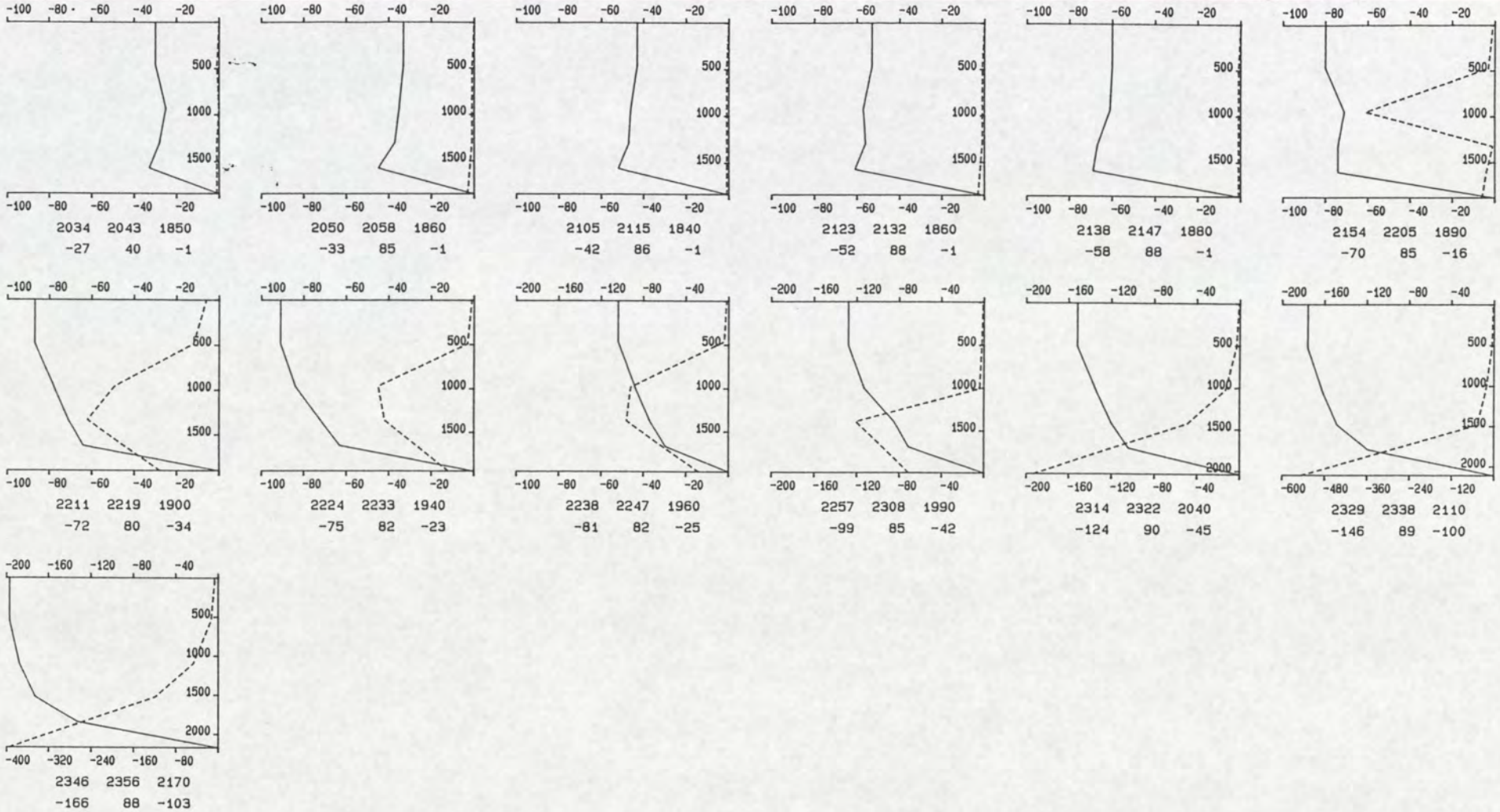
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 4 VAART.: WIJTVLIET
X-COORDINAAT : 28018 Y-COORDINAAT : 381165

TOELICHTING OP DE VERTIKALEN

_____ V ---------- T

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)



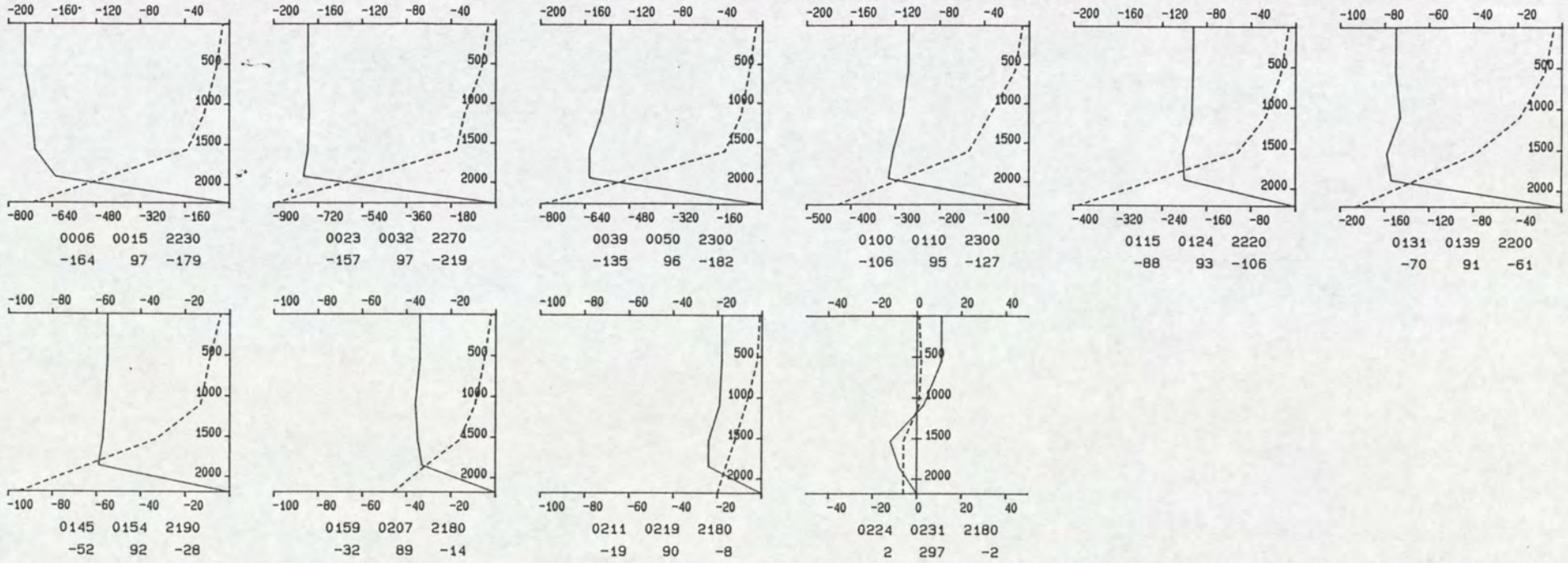
RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970520
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WYTVLIET
X-COORDINAAT : 25986 Y-COORDINAAT : 382012

TOELICHTING OP DE VERTIKALEN

_____ V ---------- T

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)



RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

SEDIMENTTRANSPORTMETING : MEX VEERH BRESKENS
DATUM : 970521
RAAI : NVT DEELRAAI : NVT PUNT : 5 VAART.: WIJTVLIET
X-COORDINAAT : 26025 Y-COORDINAAT : 382019

TOELICHTING OP DE VERTIKALEN

———— V ---------- T

14.01 14.15 295 : BEGINTIJD EINDTIJD BODEMDIEPTE
100 265 120 : V R T (GEM) +EB -VLOED
VERTIKALE SCHAAL : DIEPTE IN CM TOV WATEROPP.
HORIZONTALE SCHAAL: SNELHEID IN CM/S (BOVEN)
TRANSPORT IN GR/M2.S (ONDER)

/AZTM/ADMI/ZTM25A.DAT

R E S U L T A T E N PER V E R T I K A A L GEMIDDELD

LOKATIE: MEX BRESKENS MP 4 ;VAART.: WIJTVLIET

FILENAAM: AZTMPEV97052015

TIJD MET	DIEPTE cm	Vgem cm/s	Ttot g/m.s
1504	1170	70.	528.
1544	1140	109.	1850.
1616	1060	108.	1459.
1631	1000	110.	1424.
1647	1000	105.	1348.
1700	970.	94.	1166.
1714	970.	97.	973.
1729	970.	95.	744.
1743	910.	90.	542.
1805	880.	81.	355.
1820	880.	75.	291.
1836	880.	63.	207.
1853	870.	54.	139.
1907	860.	44.	98.
1920	840.	30.	64.
1936	870.	17.	30.
1950	870.	0.	3.

/AZTM/ADMI/ZTM25A.DAT

```
00001  ------------------------------------------------------------
00002  R E S U L T A T E N  PER  V E R T I K A A L GEMIDDELD
00003  ............................................................
00004  LOKATIE: MEX  BRESKENS  MP 5  ;VAART.: WYTVLIET
00005  FILENAAM: AZTMPEV97052020
00006  ------------------------------------------------------------
00007  |  TIJD  | DIEPTE |  Vgem  |  Ttot  |
00008  |   MET  |   cm   |  cm/s  |  g/m.s |
00009  |--------|--------|--------|--------|
00010  |  2038  |  1850  |   -27. |    -13.|
00011  |  2054  |  1860  |   -33. |    -23.|
00012  |  2110  |  1840  |   -42. |    -17.|
00013  |  2127  |  1860  |   -52. |    -23.|
00014  |  2142  |  1880  |   -58. |    -18.|
00015  |  2159  |  1890  |   -70. |   -301.|
00016  |  2215  |  1900  |   -72. |   -656.|
00017  |  2228  |  1940  |   -75. |   -452.|
00018  |  2242  |  1960  |   -81. |   -500.|
00019  |  2302  |  1990  |   -99. |   -842.|
00020  |  2318  |  2040  |  -124  |   -919.|
00021  |  2333  |  2110  |  -146  |  -2119.|
00022  |  2351  |  2170  |  -166  |  -2246.|
00023  ---------------------------------------
```

/AZTM/ADMI/ZTM25A.DAT

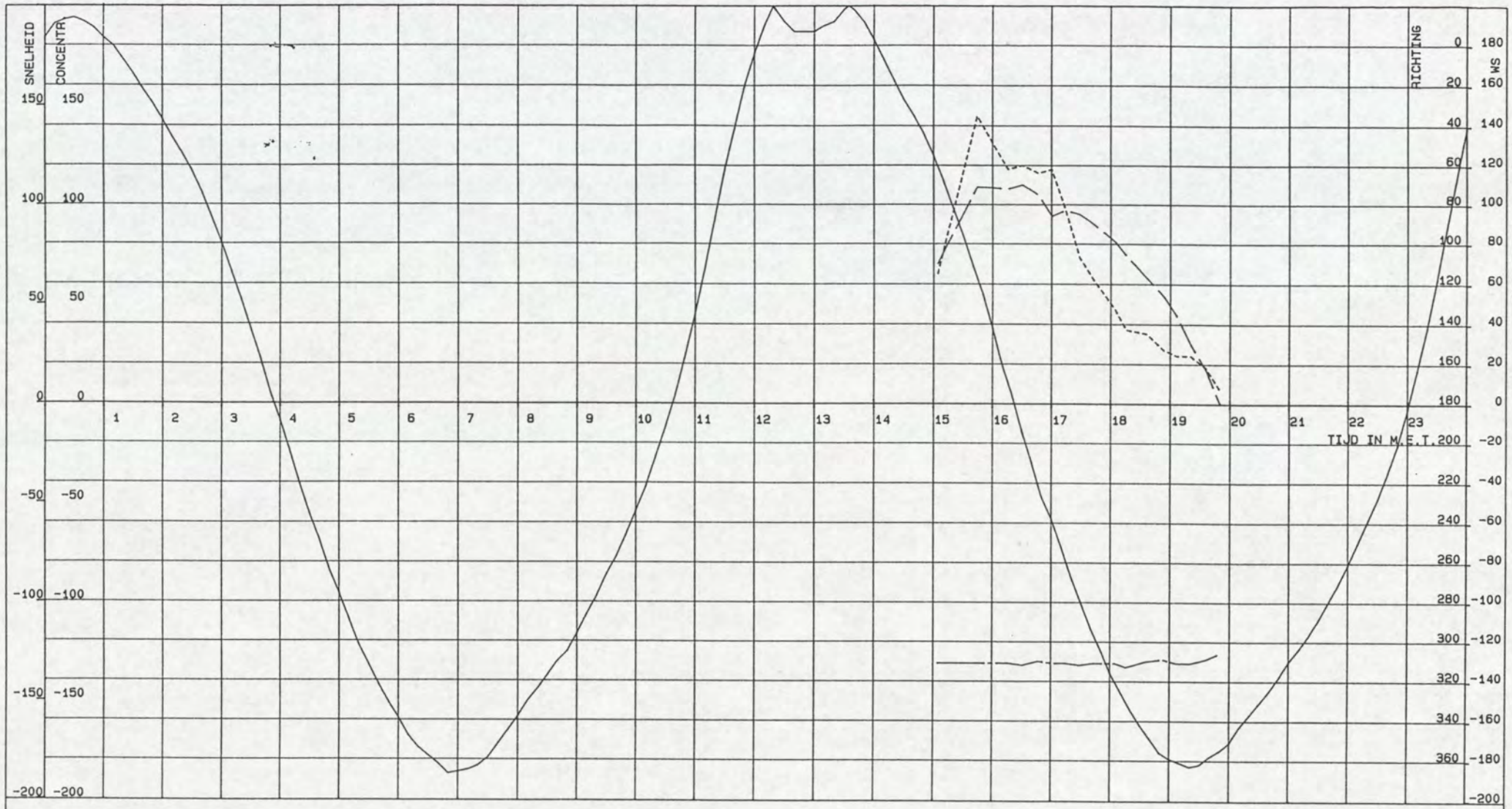
R E S U L T A T E N PER V E R T I K A A L GEMIDDELD

LOKATIE: MEX BRESKENS MP 5 ;VAART.: WIJTVLIET

FILENAAM: AZTMPEV97052100

TIJD MET	DIEPTE cm	Vgem cm/s	Ttot g/m.s
10	2230	-164	-4004.
27	2270	-157	-4978.
44	2300	-135	-4194.
105	2300	-106	-2933.
119	2220	-88.	-2344.
135	2200	-70.	-1334.
149	2190	-52.	-619.
203	2180	-32.	-316.
215	2180	-19.	-179.
227	2180	2.	-34.

16. Gemiddelde krommen - slibconcentratie



MEX VEERHAVEN BRESKENS MEETPUNT 4

GETIJLIJN VLIS .cm. . SNELHEID.cm/s. CONCENTRATIE.mg/l. RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

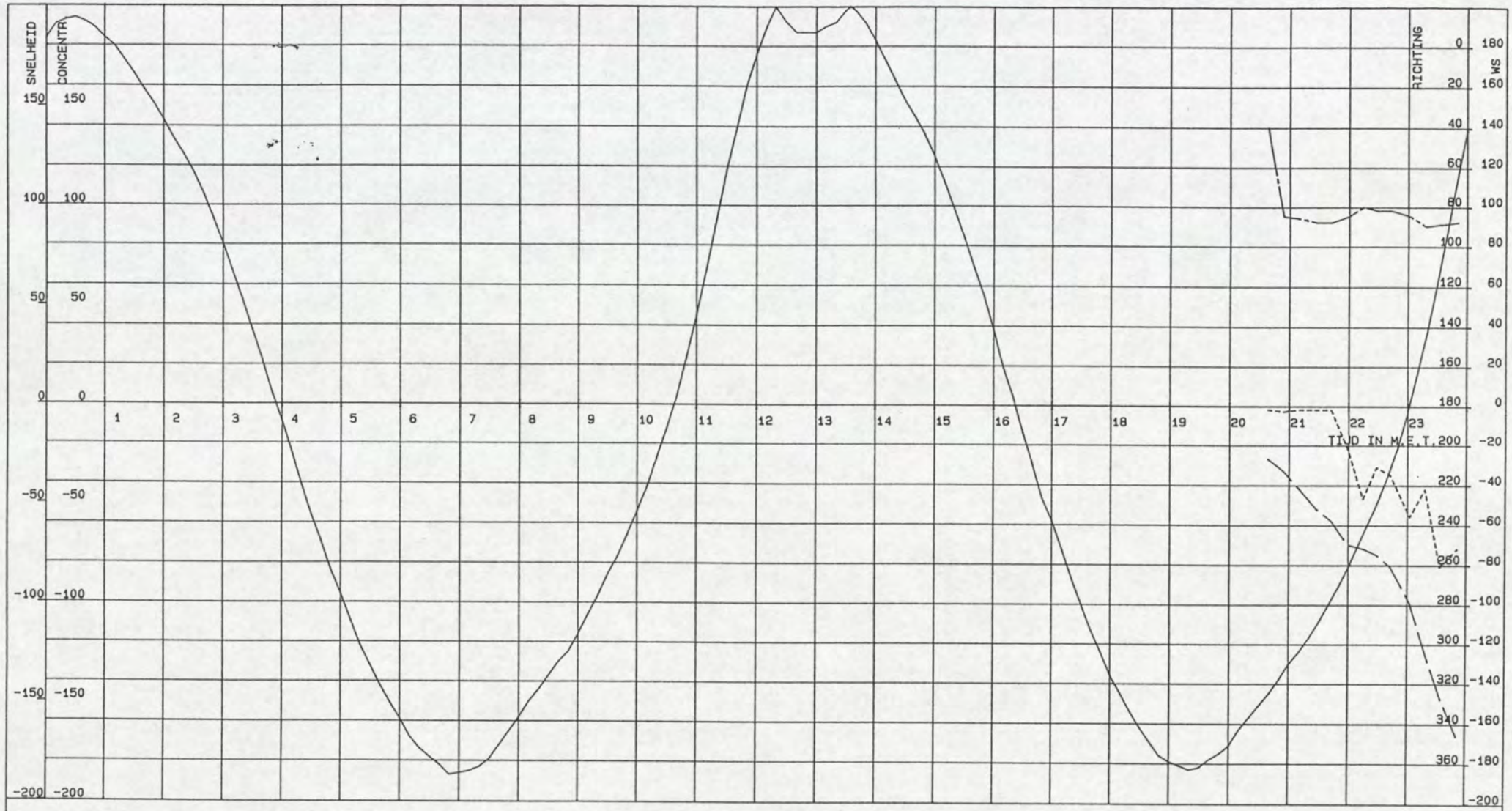
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 28018
POSITIE.Y. : 381165

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 15 u 00
EINDTIJD : 19 u 54

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



MEX VEERHAVEN BRESKENS MEETPUNT 5

———— GETIJLIJN VLIS .cm. —— —— . SNELHEID.cm/s. ---------- CONCENTRATIE.mg/l. ——— - —— RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

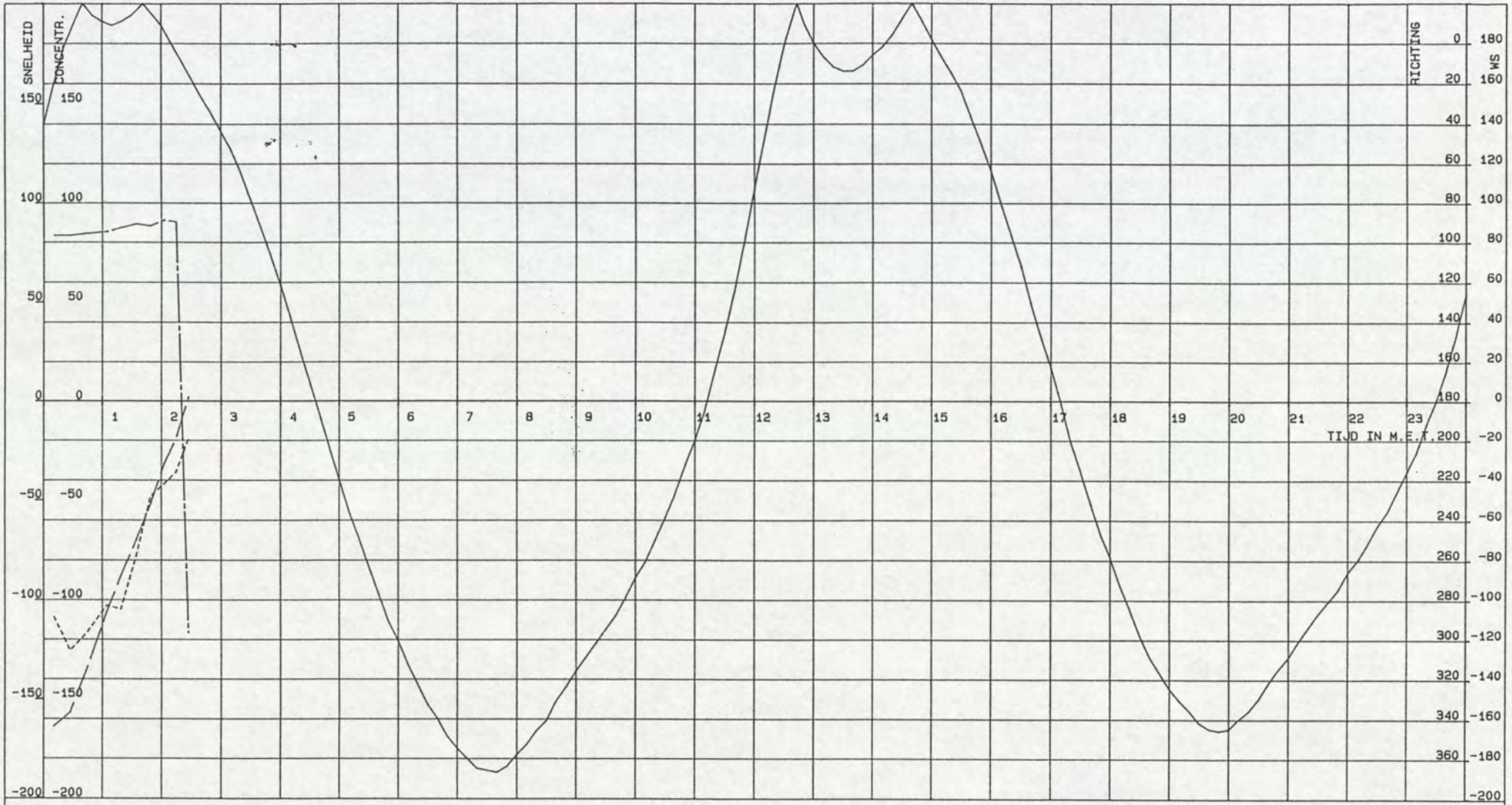
VAARTUIG : WYTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 25986
POSITIE.Y. : 382012

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 20 u 34
EINDTIJD : 23 u 56

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



MEX VEERHAVEN BRESKENS MEETPUNT 5

———— GETIJLIJN VLIS .cm. —— —— . SNELHEID.cm/s. ---------- CONCENTRATIE.mg/l. ——— - —— RICHTING.deg. GEMIDDELDEN OVER VERTIKAAL

VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

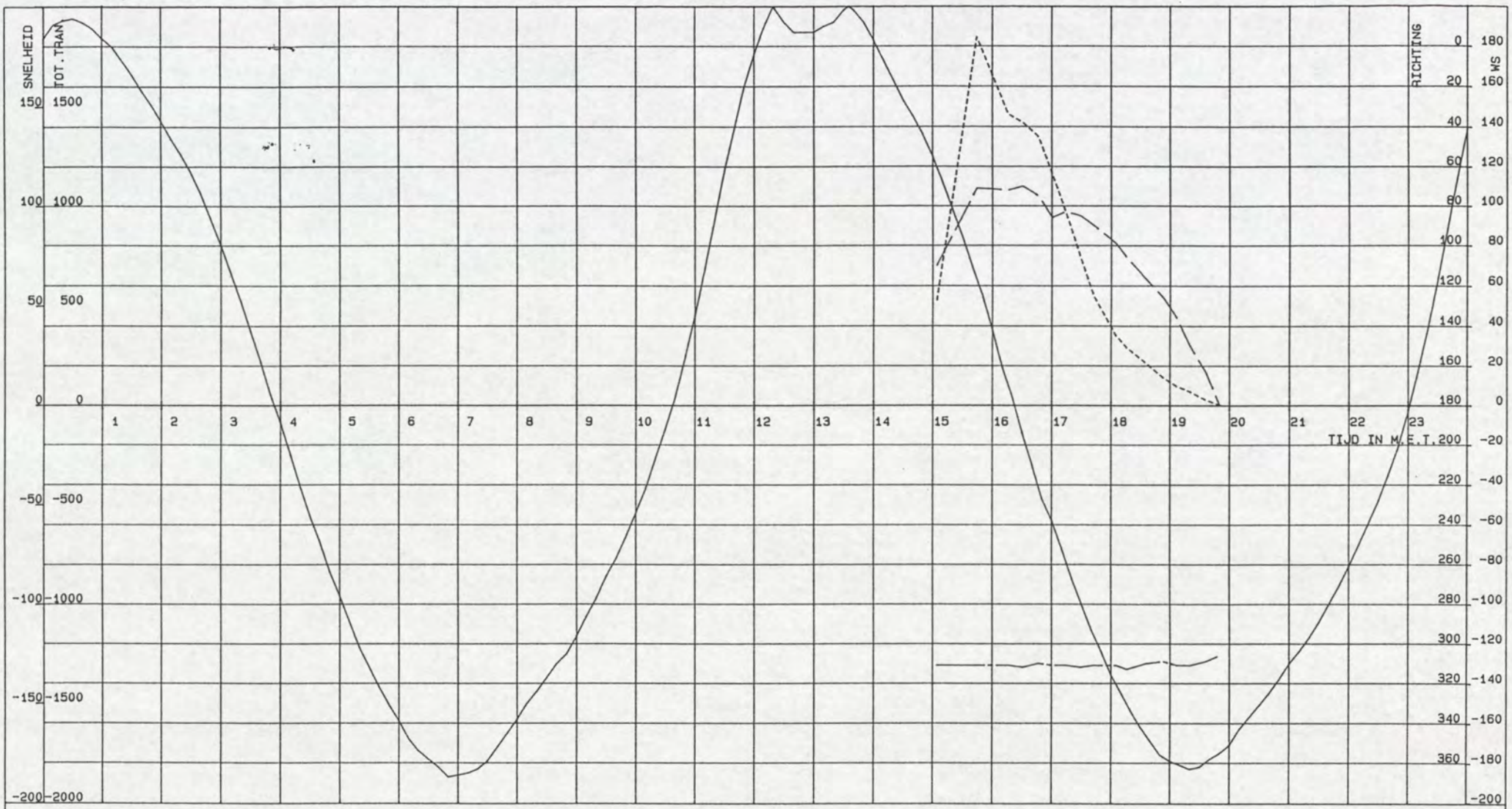
POSITIE.X. : 26025
POSITIE.Y. : 382019

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 21-05-1997
STARTTIJD : 00 u 06
EINDTIJD : 02 u 31

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

17. Gemiddelde krommen - slibtransport



MEX VEERHAVEN BRESKENS MEETPUNT 4

———— GETIJLIJN VLIS .cm. — — . SNELHEID.cm/s. ---------- TOTAAL TRANSPORT .g/ms. ——— RICHTING.deg. GEMID. V EN R; TOTAAL T OVER VERTIKAAL

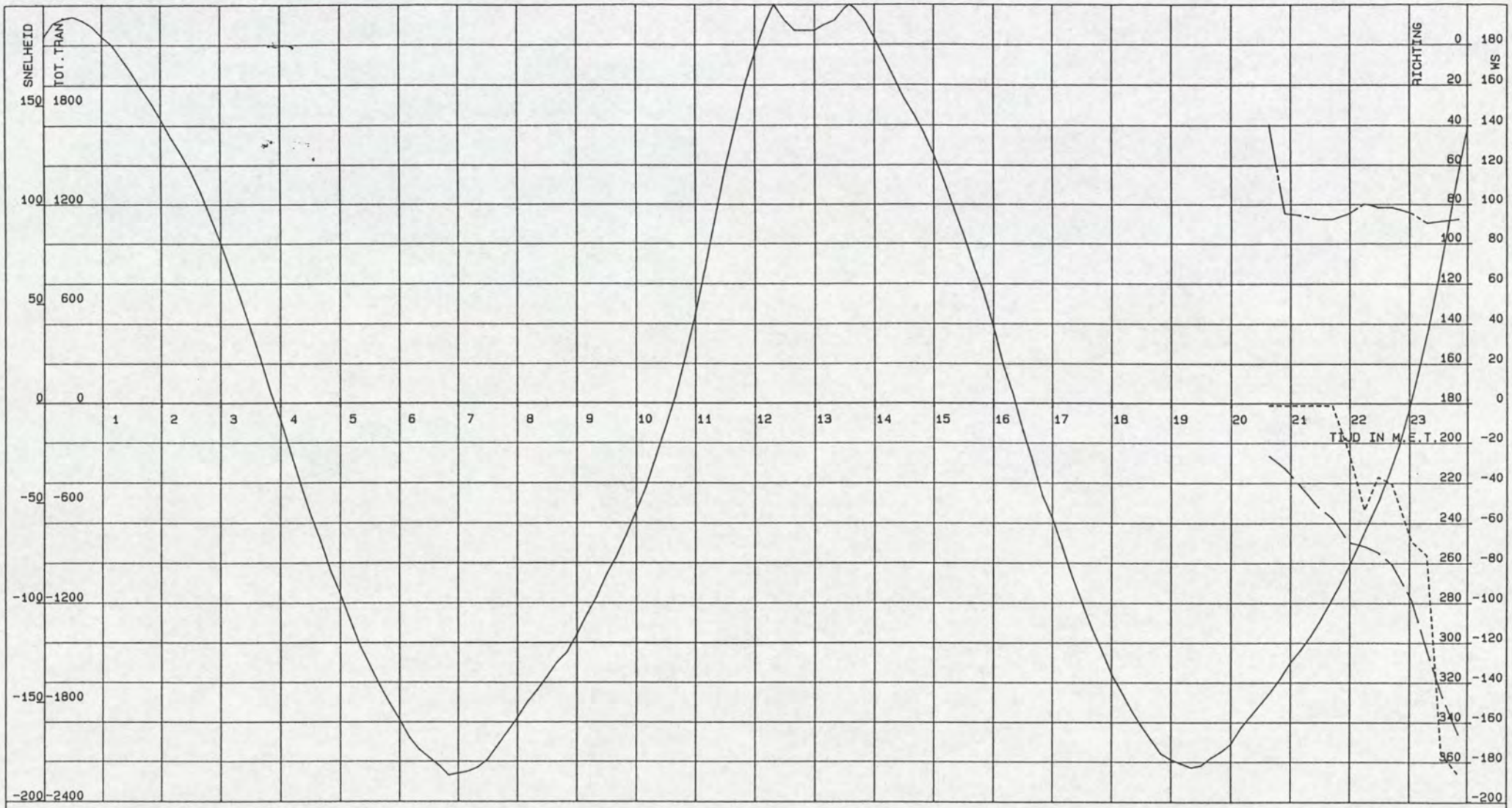
VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 28018
POSITIE.Y. : 381165

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 15 u 00
EINDTIJD : 19 u 54

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



MEX VEERHAVEN BRESKENS MEETPUNT 5

GETIJLIJN VLIS .cm. . SNELHEID.cm/s. TOTAAL TRANSPORT .g/ms. RICHTING.deg. GEMID. V EN R; TOTAAL T OVER VERTIKAAL

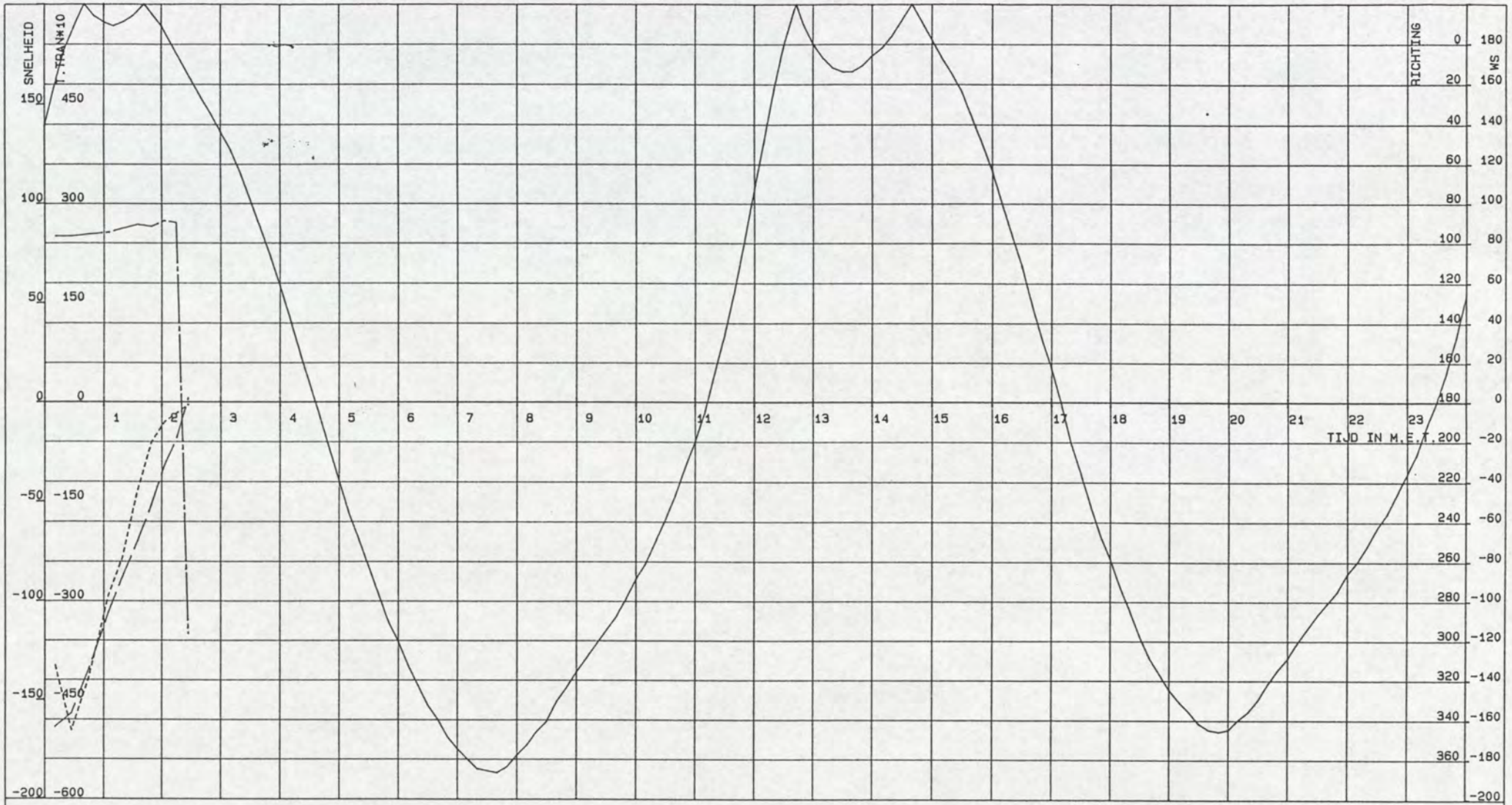
VAARTUIG : WYTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 25986
POSITIE.Y. : 382012

CYCLUSTIJD : 120
MIDD.TIJD : 120

DATUM : 20-05-1997
STARTTIJD : 20 u 34
EINDTIJD : 23 u 56

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST



MEX VEERHAVEN BRESKENS MEETPUNT 5

GETIJLIJN VLIS .cm. . SNELHEID.cm/s. TOTAAL TRANSPORT .10g/ms RICHTING.deg. GEMID. V EN R: TOTAAL T OVER VERTIKAAL

VAARTUIG : WIJTVLIET
KASTNR. : 102.3.5-07
VISNR. : 102.3.3-05

POSITIE.X. : 26025
POSITIE.Y. : 382019

CYCLUSTIJD : 120
MIDD.TIJD : 120

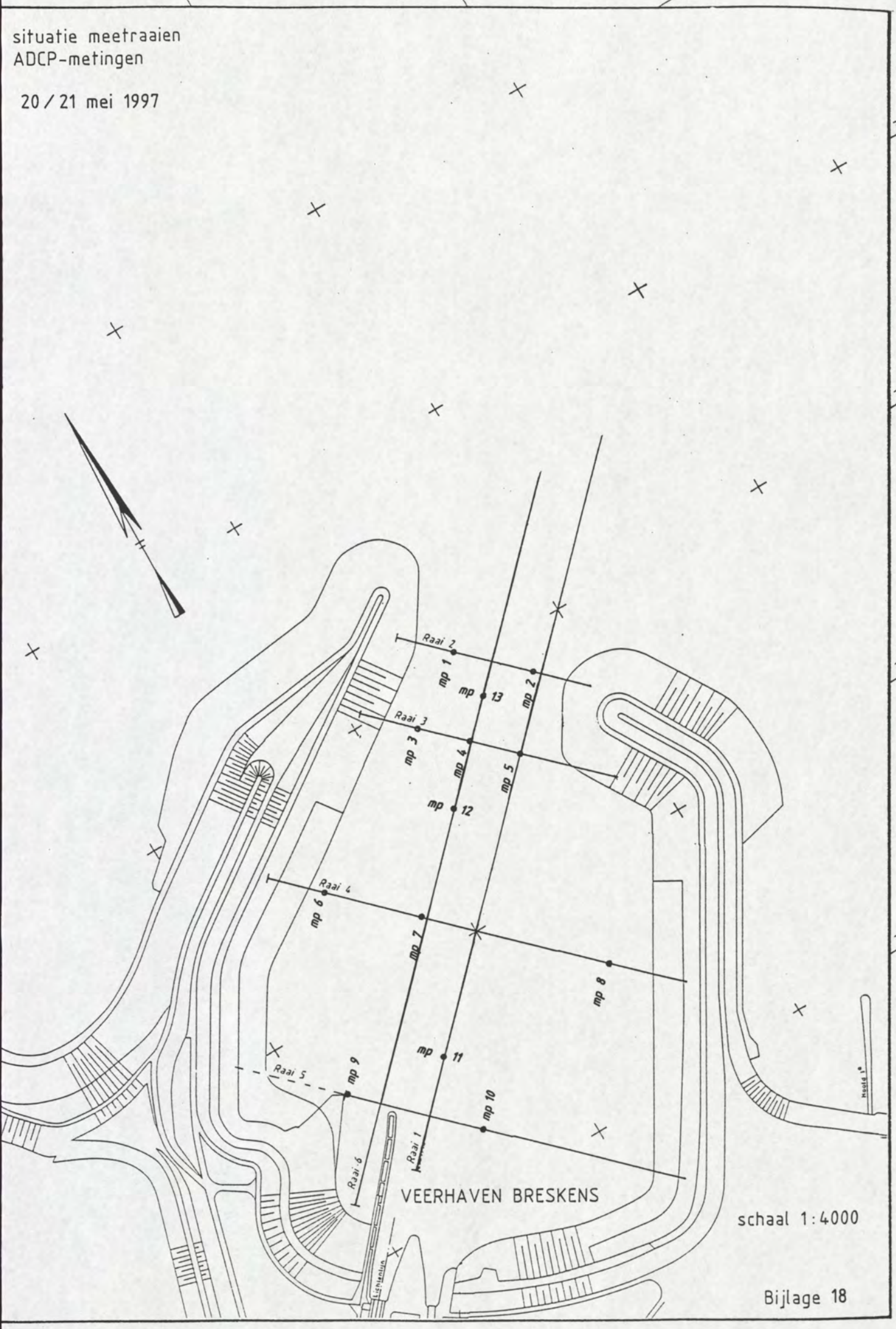
DATUM : 21-05-1997
STARTTIJD : 00 u 06
EINDTIJD : 02 u 31

RIJKSWATERSTAAT
DIRECTIE ZEELAND
MEETDIENST

18. Overzicht meetraaien.

situatie meetraaien
ADCP-metingen

20 / 21 mei 1997



Bijlage 18

19. Gevaren tracks.

Veerhaven Breskens
20 /21 mei 1997

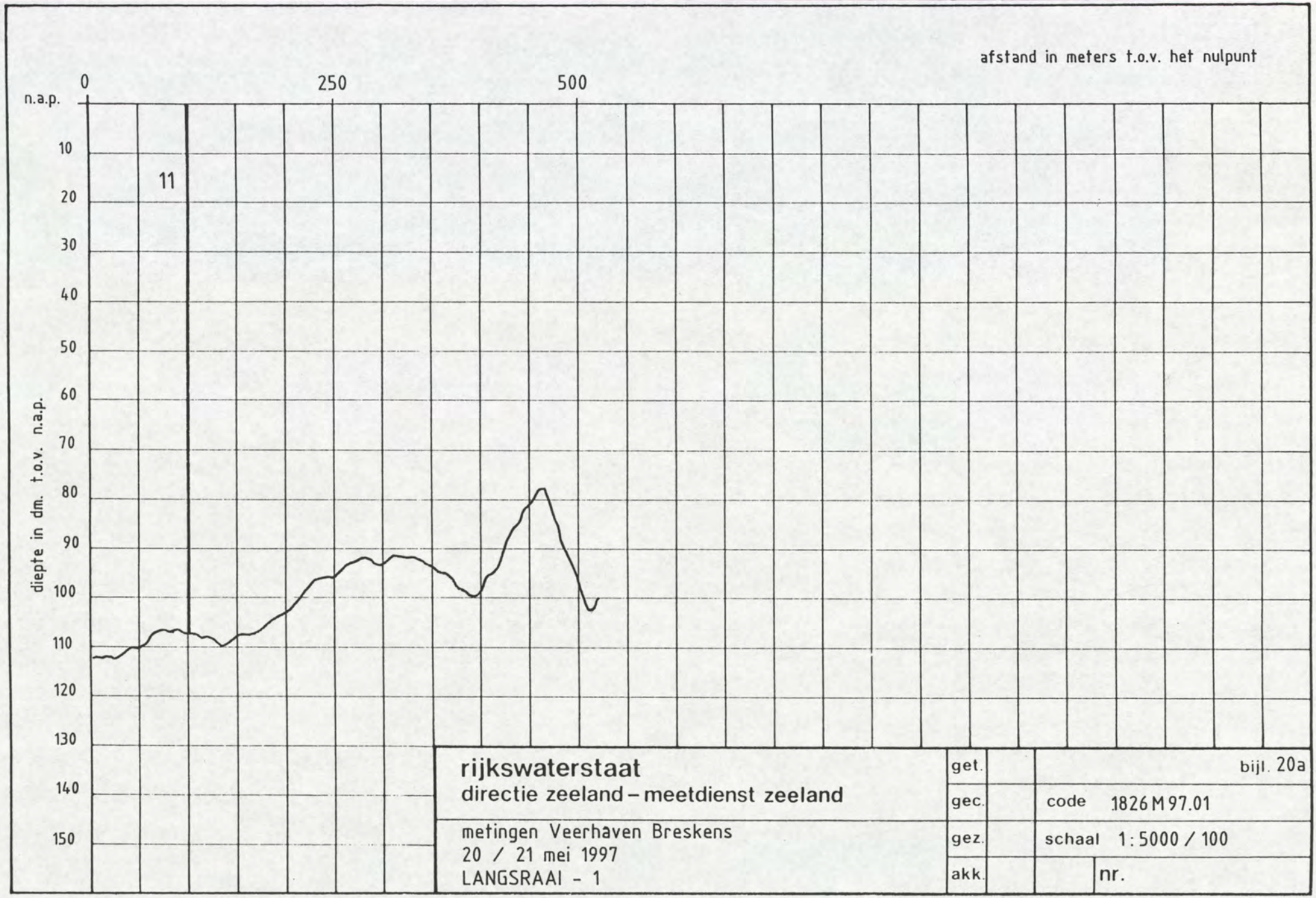
Overzicht gevaren Dwarsraaien

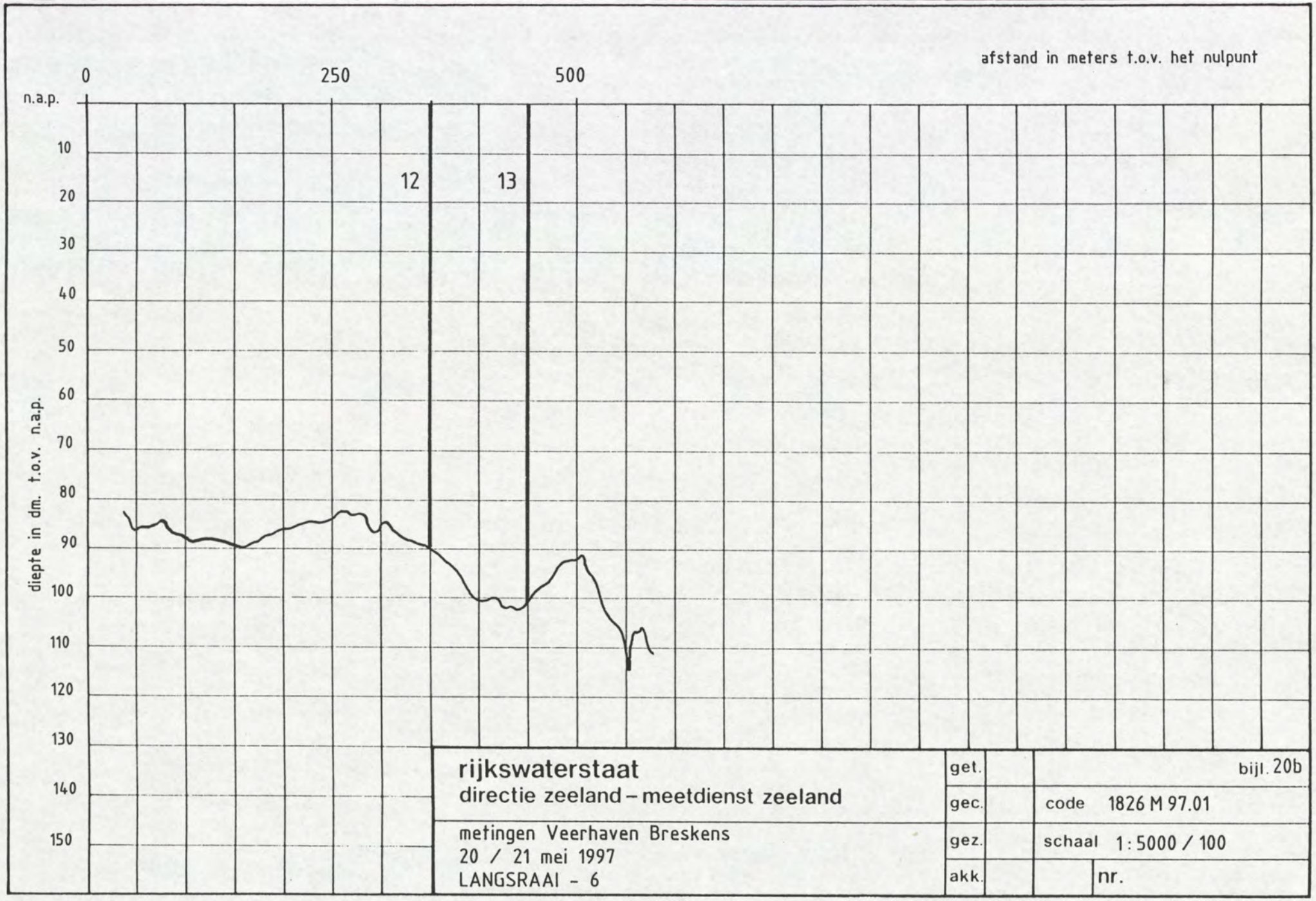
ADCP file Nummer	Raai nummer	Begintijd (M.E.T.)	Eindtijd (M.E.T.)	Koers (deg)	Geluidssnelheid (M/s)
7	2	21:34	21:37	62.5	1499
8	3	21:38	21:41	242.5	
9	4	21:43	21:47	62.5	
10	5	21:51	21:55	242.5	
13	2	22:35	22:36	62.5	
14	3	22:38	22:40	242.5	
15	4	22:42	22:46	62.5	
16	5	22:49	22:52	242.5	
19	2	23:36	23:38	62.5	
20	3	23:39	23:41	242.5	
21	4	23:44	23:48	62.5	
22	5	23:50	23:55	242.5	
25	2	00:14	00:16	62.5	
26	3	00:16	00:19	242.5	
27	4	00:20	00:25	62.5	
28	5	00:27	00:32	242.5	
31	2	00:50	00:51	62.5	
32	3	00:52	00:56	242.5	
33	4	00:58	01:02	62.5	
34	5	01:04	01:09	242.5	
37	2	01:28	01:30	62.5	
38	3	01:30	01:33	242.5	
39	4	01:36	01:39	62.5	
40	5	01:41	01:45	242.5	1499

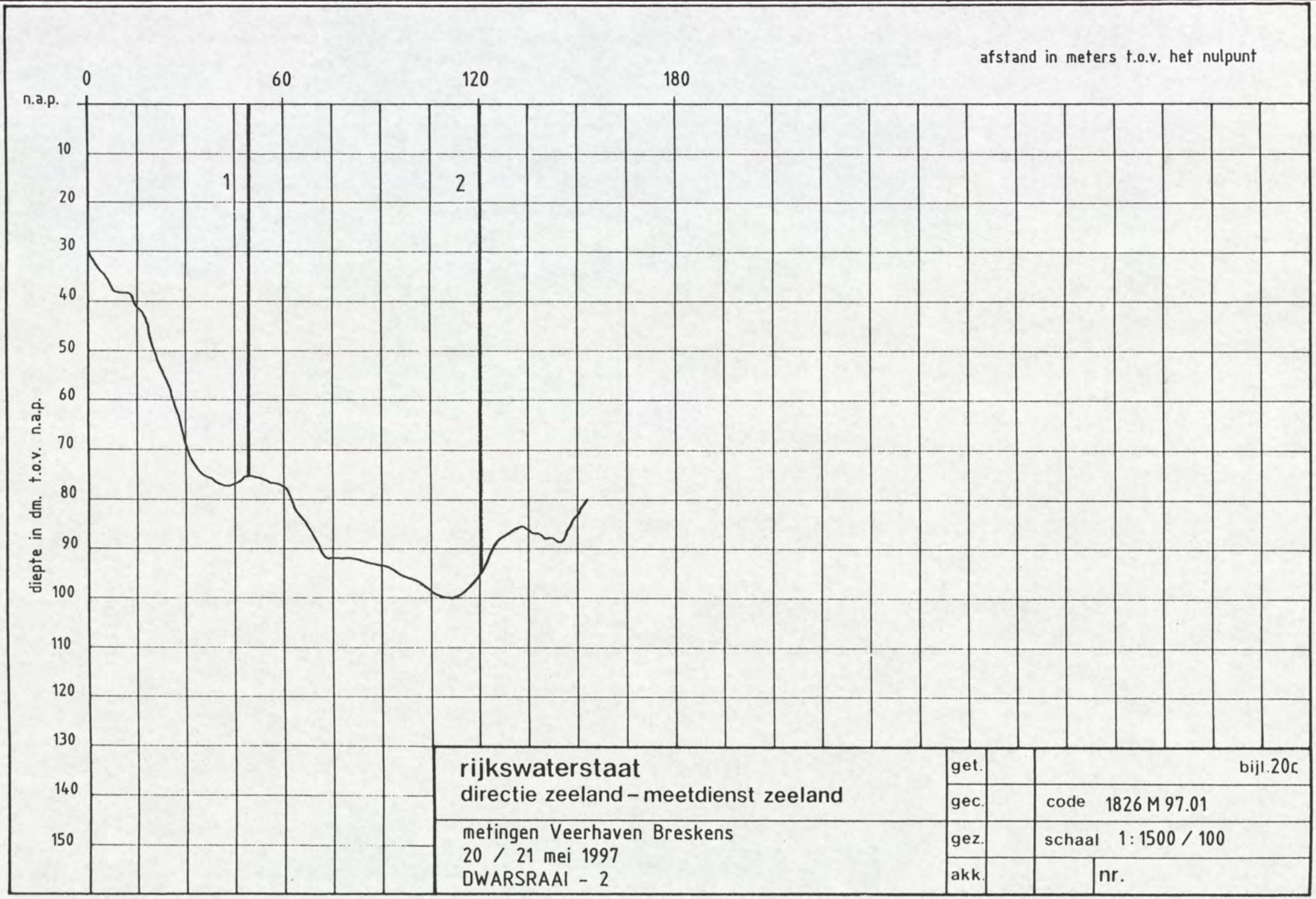
Overzicht gevaren Lengteraaien

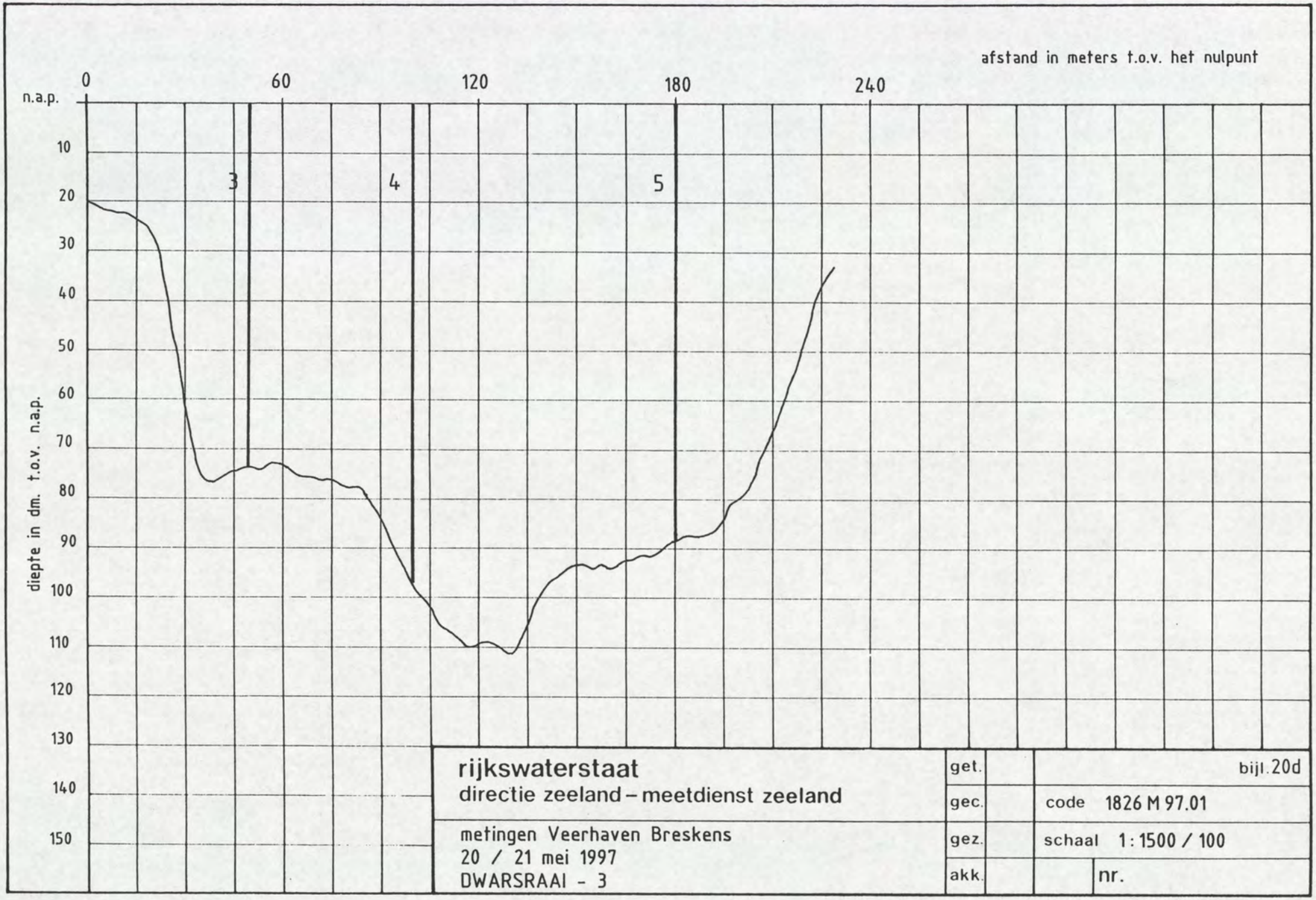
ADCP file Nummer	Raai nummer	Begintijd (M.E.T.)	Eindtijd (M.E.T.)	Koers (deg)	Geluidssnelheid (M/s)
6	6	21.28	21.33	45	1499
11	1	21.58	22.03	225	
12	6	22.27	22.33	45	
17	1	22.55	22.59	225	
18	6	23.29	23.33	45	
23	1	23.58	00.02	225	
24	6	00.07	00.12	45	
29	1	00.35	00.40	225	
30	6	00.44	00.48	45	
35	1	01.12	01.17	225	
36	6	01.21	01.26	45	
41	1	01.48	01.54	225	1499

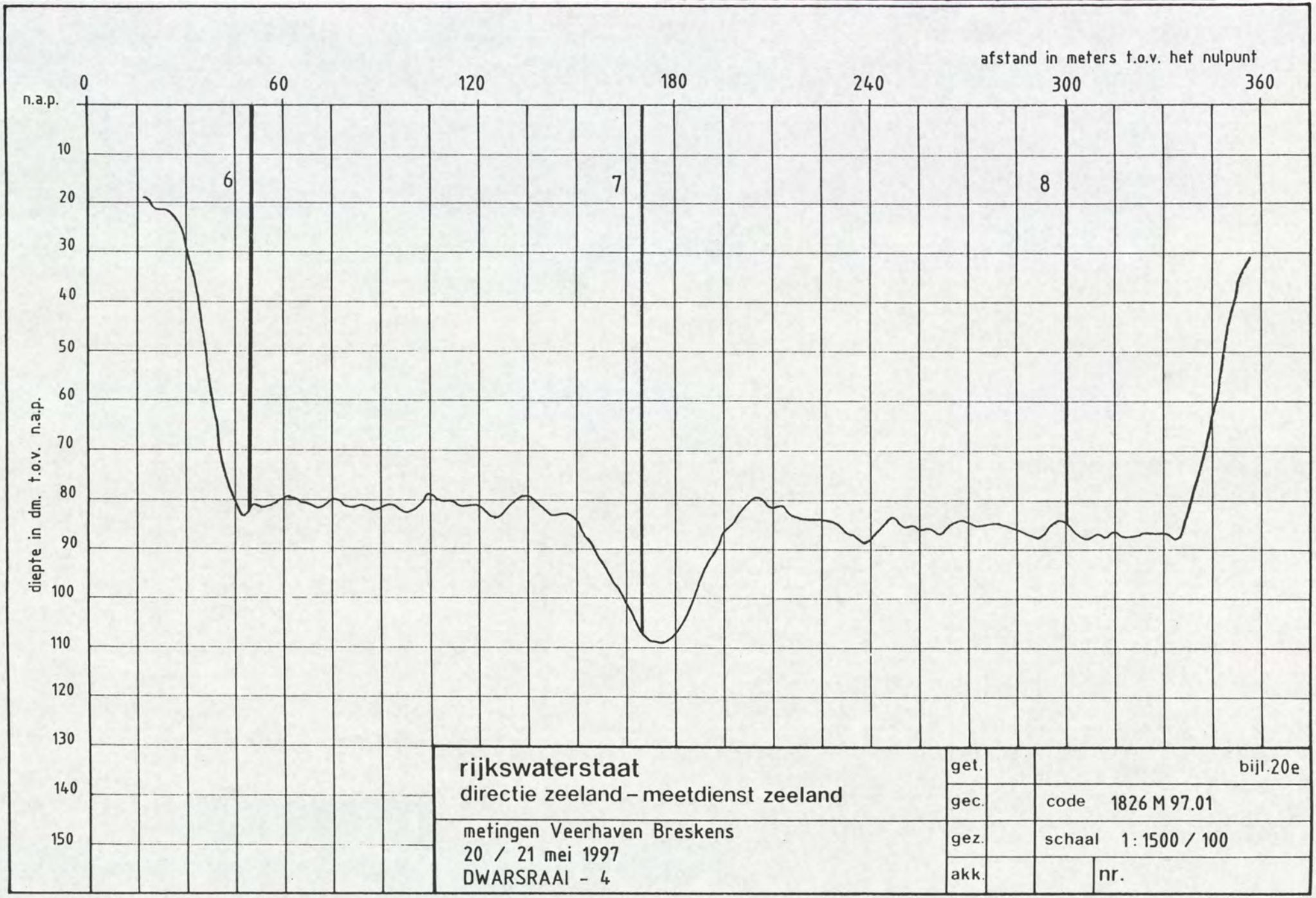
20. Dwarsprofielen.

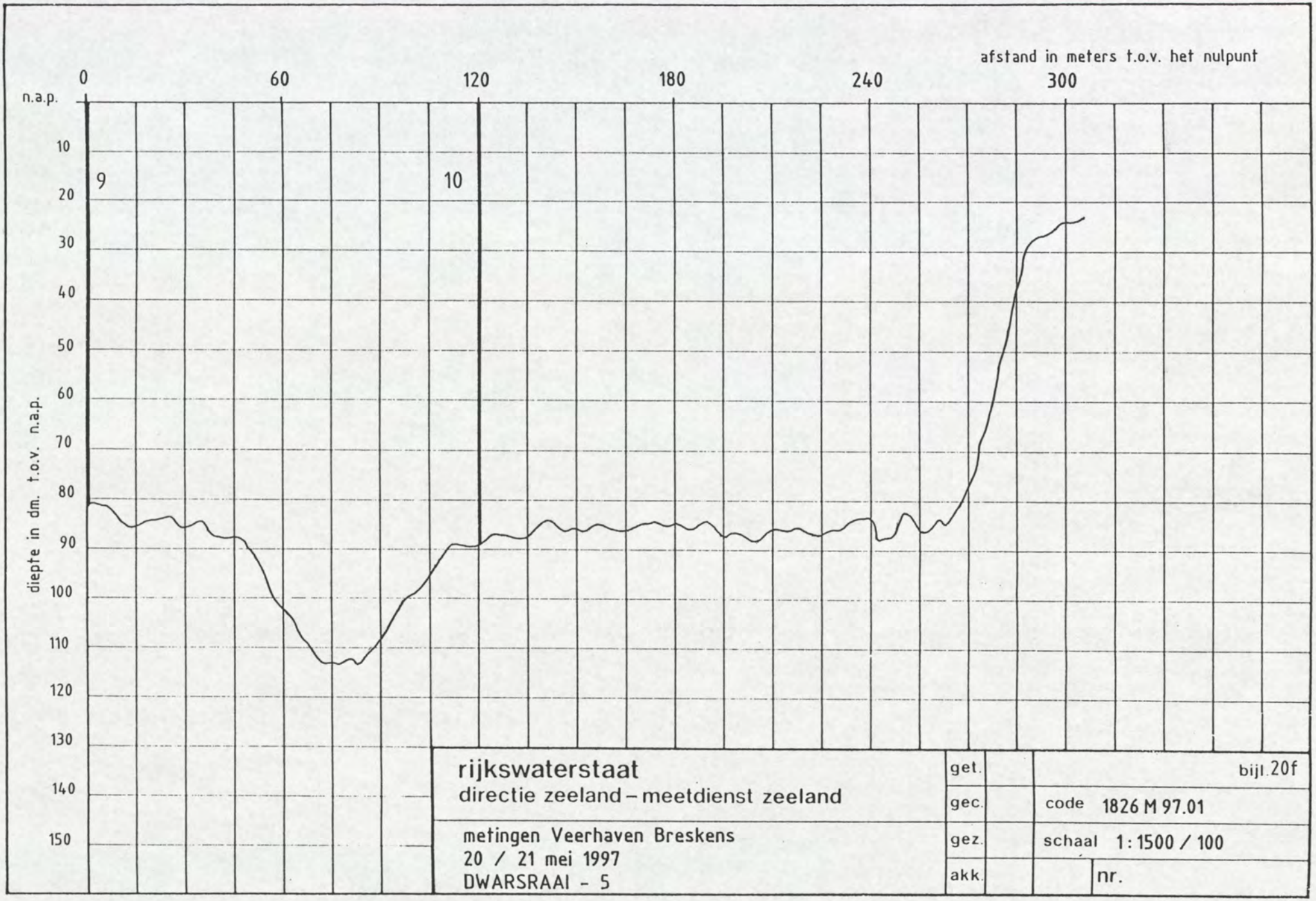

afstand in meters t.o.v. het nulpunt
0
250
500
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
11
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
LANGSRAAI - 1
get.
gec.
gez.
akk.
bijl. 20a
code 1826 M 97.01
schaal 1:5000 / 100
nr.


afstand in meters t.o.v. het nulpunt
0
250
500
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
12
13
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
LANGSRAAI - 6
get.
gec.
gez.
akk.
bijl. 20b
code 1826 M 97.01
schaal 1:5000 / 100
nr.


afstand in meters t.o.v. het nulpunt
0
60
120
180
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
1
2
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
DWARSRAAI - 2
get.
gec.
gez.
akk.
bijl.20c
code 1826 M 97.01
schaal 1:1500 / 100
nr.


afstand in meters t.o.v. het nulpunt
0
60
120
180
240
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
3
4
5
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
DWARSRAAI - 3
get.
gec.
gez.
akk.
bijl. 20d
code 1826 M 97.01
schaal 1 : 1500 / 100
nr.


afstand in meters t.o.v. het nulpunt
0
60
120
180
240
300
360
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
6
7
8
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
DWARSRAAI - 4
get.
gec.
gez.
akk.
bijl.20e
code 1826 M 97.01
schaal 1 : 1500 / 100
nr.


afstand in meters t.o.v. het nulpunt
0
60
120
180
240
300
n.a.p.
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
diepte in dm. t.o.v. n.a.p.
9
10
rijkswaterstaat
directie zeeland – meetdienst zeeland
metingen Veerhaven Breskens
20 / 21 mei 1997
DWARSRAAI - 5
get.
gec.
gez.
akk.
bijl. 20f
code 1826 M 97.01
schaal 1:1500 / 100
nr.

21. Waterstanden.

waterstanden lokatie (9999) uit WTO2 VLIS
x= 27500. y= 381400.

		0	10	20	30	40	50
970520	0000	187	192	193	193	190	186
	0100	181	176	169	162	154	147
	0200	138	130	121	112	100	87
	0300	73	59	45	30	14	-2
	0400	-16	-32	-48	-62	-76	-90
	0500	-102	-115	-127	-136	-146	-155
	0600	-163	-171	-176	-180	-184	-187
	0700	-185	-184	-181	-176	-169	-162
	0800	-154	-147	-141	-134	-127	-121
	0900	-112	-102	-92	-82	-72	-61
	1000	-49	-36	-20	-5	12	33
	1100	55	79	104	127	148	167
	1200	182	195	204	210	213	212
	1300	211	208	205	199	195	187
	1400	178	168	158	148	140	131
	1500	119	105	91	77	62	47
	1600	29	11	-4	-22	-38	-53
	1700	-64	-79	-93	-106	-118	-129
	1800	-140	-149	-158	-165	-172	-178
	1900	-180	-182	-183	-180	-176	-173
	2000	-168	-160	-154	-148	-142	-134
	2100	-127	-121	-113	-105	-96	-87
	2200	-76	-65	-54	-42	-29	-14
	2300	6	26	48	73	99	125

waterstanden lokatie (9999) uit WTO2 VLIS
x= 27500. y= 381400.

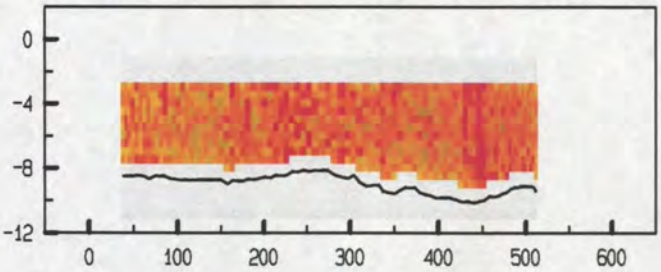
		0	10	20	30	40	50
970521	0000	148	167	182	193	203	207
	0100	209	210	207	203	198	191
	0200	184	175	166	157	149	140
	0300	131	121	108	94	80	66
	0400	50	34	17	1	-15	-32
	0500	-47	-62	-75	-89	-103	-116
	0600	-126	-138	-147	-156	-164	-172
	0700	-177	-182	-186	-186	-186	-181
	0800	-175	-170	-163	-157	-147	-140
	0900	-133	-126	-119	-112	-104	-95
	1000	-85	-76	-65	-54	-41	-27
	1100	-14	3	23	43	67	92
	1200	118	143	167	187	202	214
	1300	223	229	232	233	232	228
	1400	223	219	212	204	195	186
	1500	177	168	160	150	136	123
	1600	108	91	76	59	41	25
	1700	9	-10	-29	-43	-59	-73
	1800	-85	-99	-111	-123	-133	-141
	1900	-148	-153	-158	-164	-165	-166
	2000	-163	-158	-153	-146	-139	-132
	2100	-126	-118	-111	-104	-98	-91
	2200	-83	-77	-68	-60	-52	-42
	2300	-32	-20	-7	6	23	42

22. Gevalideerde tracks.

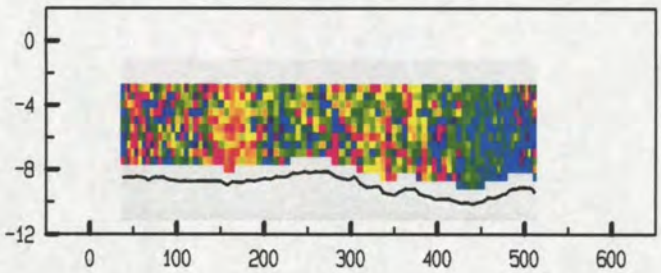
Veerhaven Breskens dd 20 mei 1997
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

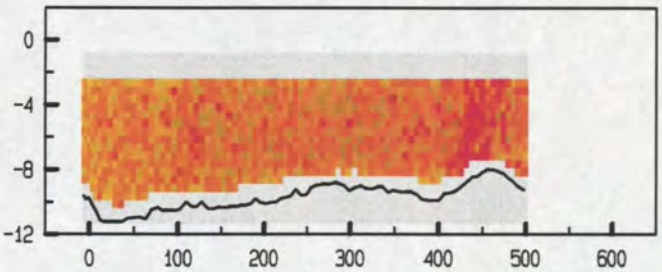
adcpfile : data/gevalid/1826/ln/1826006a.valtijd : 2128 - 2133



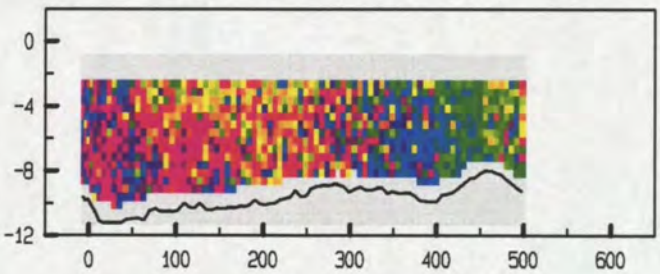
adcpfile : data/gevalid/1826/ln/1826006a.valtijd : 2128 - 2133



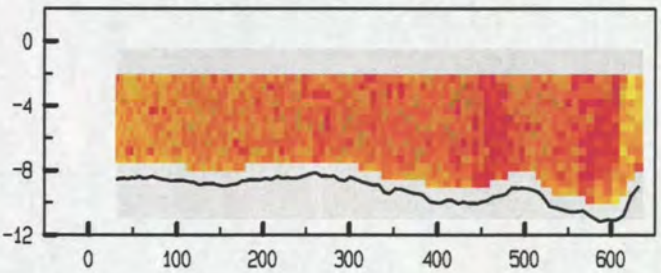
adcpfile : data/gevalid/1826/ln/1826011a.valtijd : 2158 - 2203



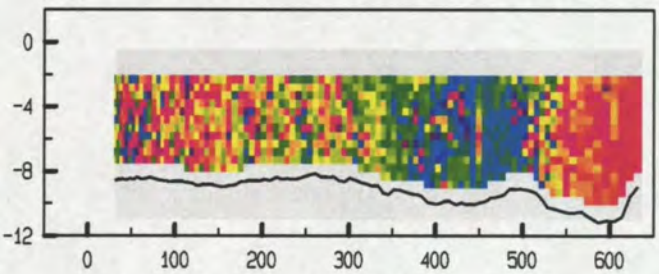
adcpfile : data/gevalid/1826/ln/1826011a.valtijd : 2158 - 2203



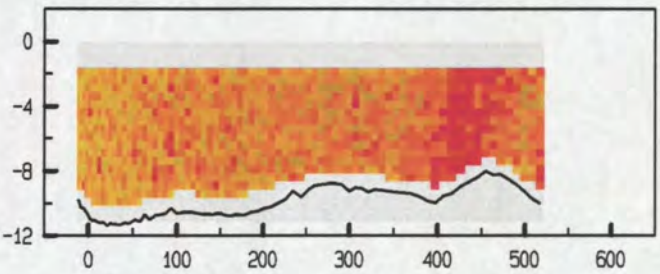
adcpfile : data/gevalid/1826/ln/1826012a.valtijd : 2227 - 2233



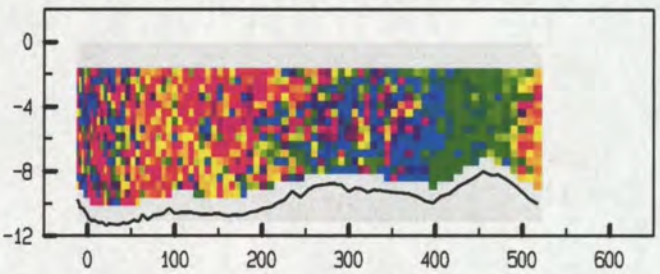
adcpfile : data/gevalid/1826/ln/1826012a.valtijd : 2227 - 2233



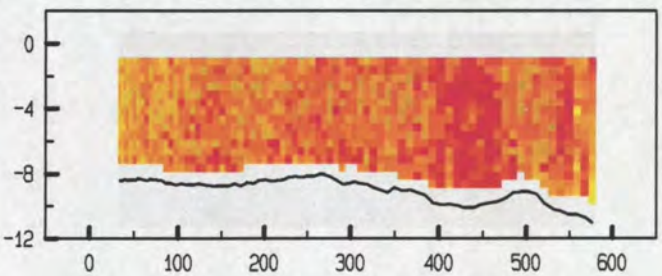
adcpfile : data/gevalid/1826/ln/1826017a.valtijd : 2255 - 2259



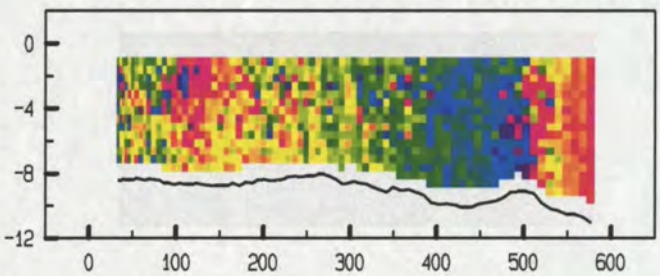
adcpfile : data/gevalid/1826/ln/1826017a.valtijd : 2255 - 2259

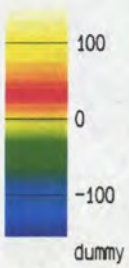


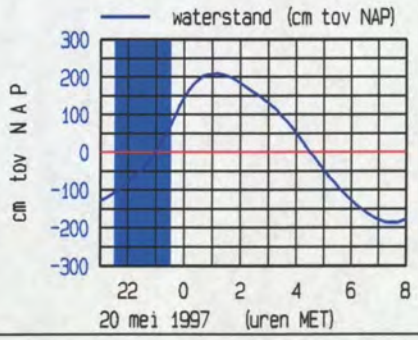
adcpfile : data/gevalid/1826/ln/1826018a.valtijd : 2329 - 2333



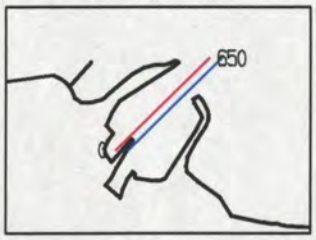
adcpfile : data/gevalid/1826/ln/1826018a.valtijd : 2329 - 2333







meetgebied

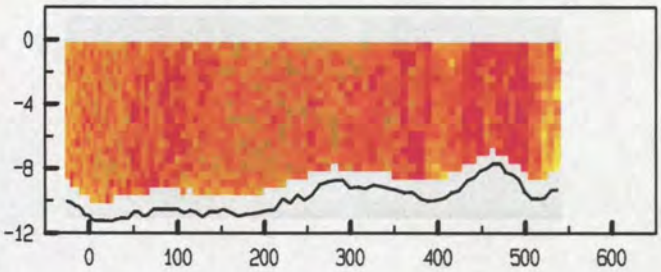


Veerhaven Breskens dd 21 mei 1997

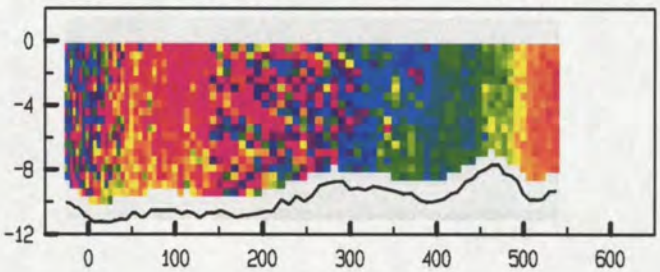
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

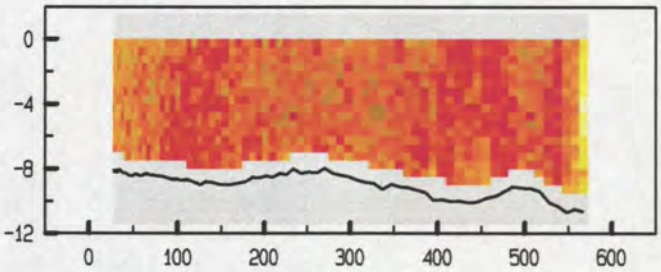
adcpfile : data/gevalid/1826/ln/1826023a.valtijd : 2358 - 0002



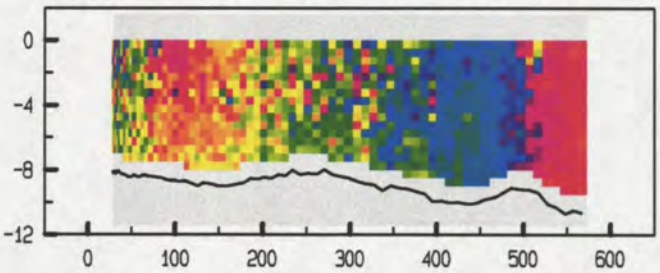
adcpfile : data/gevalid/1826/ln/1826023a.valtijd : 2358 - 0002



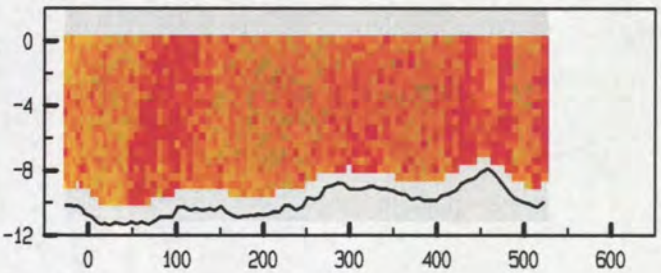
adcpfile : data/gevalid/1826/ln/1826024a.valtijd : 0007 - 0012



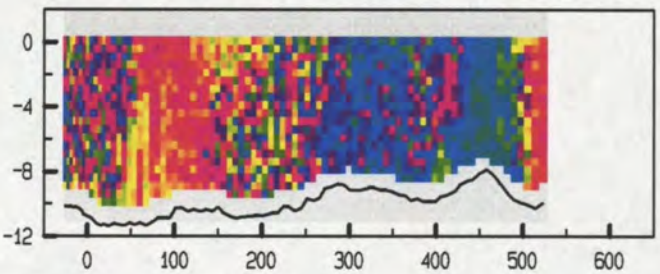
adcpfile : data/gevalid/1826/ln/1826024a.valtijd : 0007 - 0012



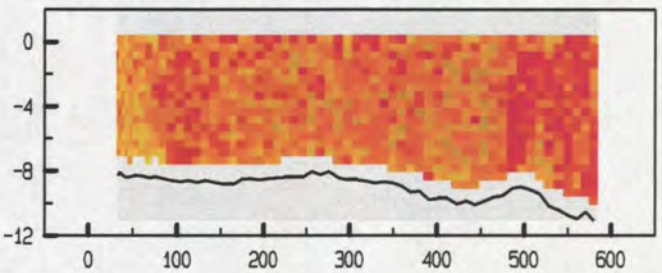
adcpfile : data/gevalid/1826/ln/1826029a.valtijd : 0035 - 0040



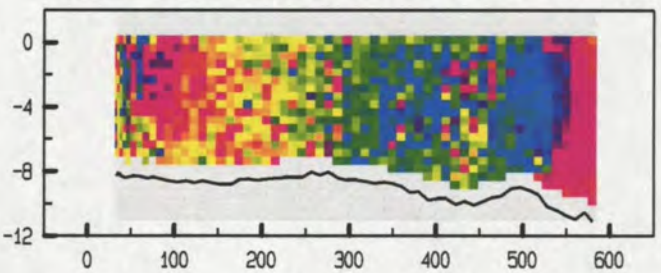
adcpfile : data/gevalid/1826/ln/1826029a.valtijd : 0035 - 0040



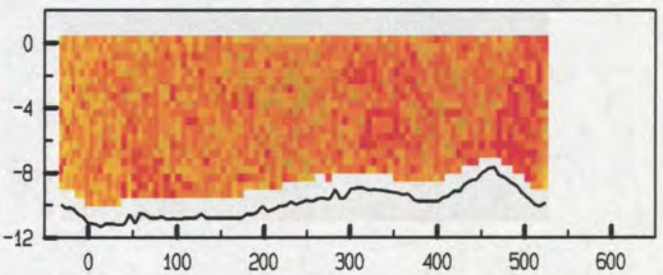
adcpfile : data/gevalid/1826/ln/1826030a.valtijd : 0044 - 0048



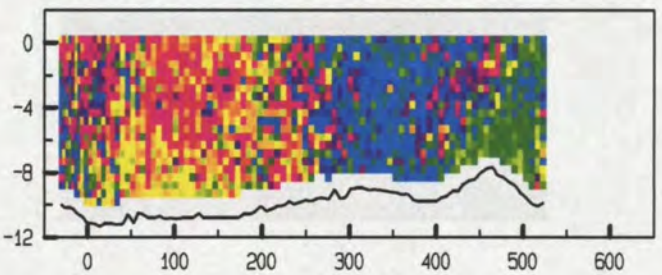
adcpfile : data/gevalid/1826/ln/1826030a.valtijd : 0044 - 0048

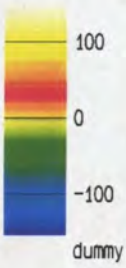


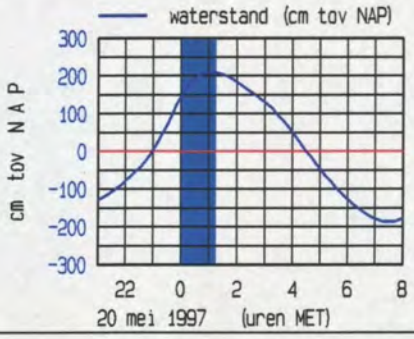
adcpfile : data/gevalid/1826/ln/1826035a.valtijd : 0112 - 0117



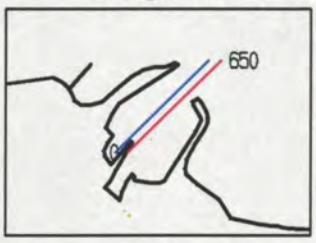
adcpfile : data/gevalid/1826/ln/1826035a.valtijd : 0112 - 0117







meetgebied

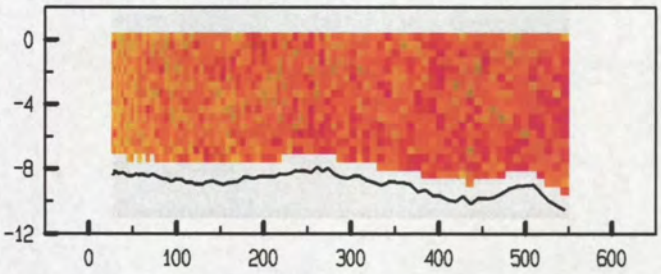


Veerhaven Breskens dd 21 mei 1997

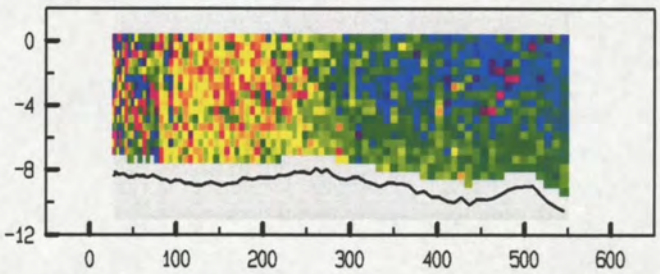
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

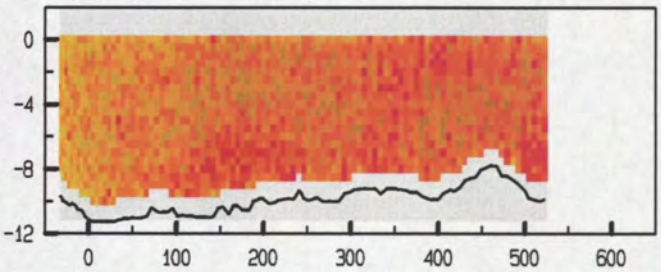
adcpfile : data/gevalid/1826/ln/1826036a.valtijd : 0121 - 0126



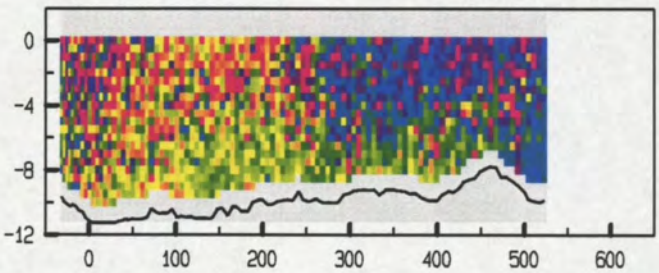
adcpfile : data/gevalid/1826/ln/1826036a.valtijd : 0121 - 0126

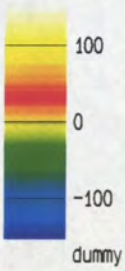


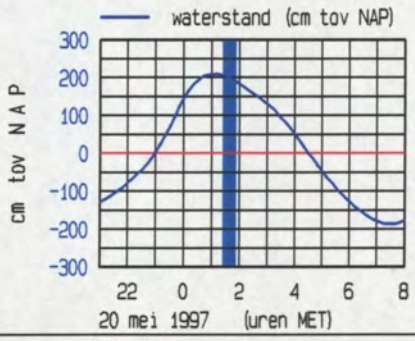
adcpfile : data/gevalid/1826/ln/1826041a.valtijd : 0148 - 0154



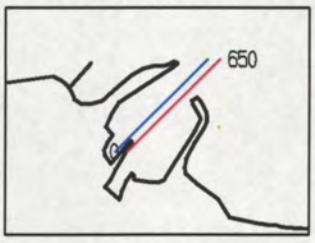
adcpfile : data/gevalid/1826/ln/1826041a.valtijd : 0148 - 0154







meetgebied

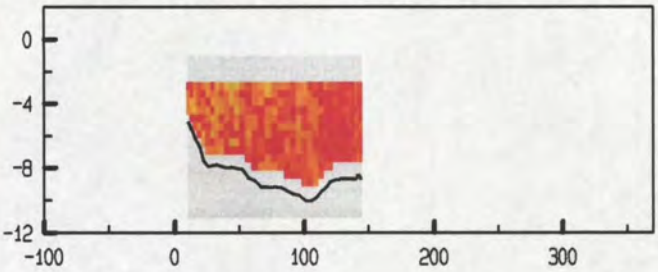


Veerhaven Breskens dd 20 mei 1997

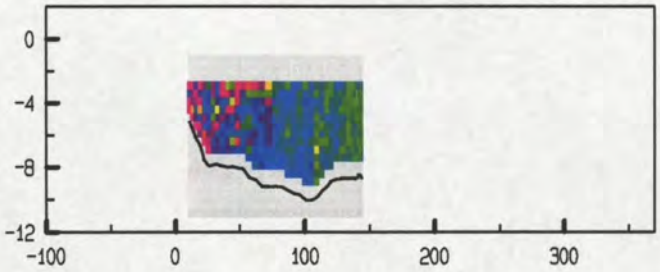
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

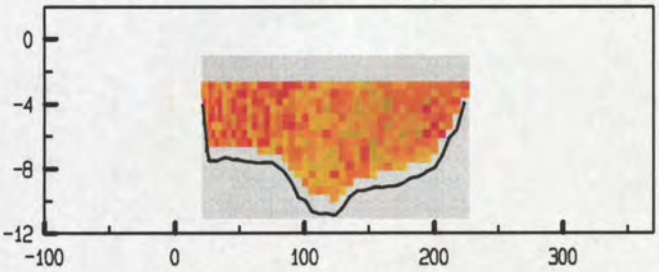
adcpfile : data/gevalid/1826/dw/1826007a.valtijd : 2134 - 2137



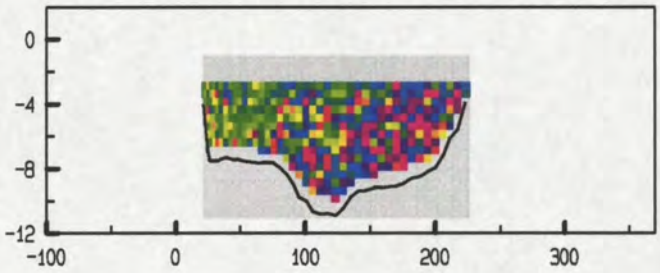
adcpfile : data/gevalid/1826/dw/1826007a.valtijd : 2134 - 2137



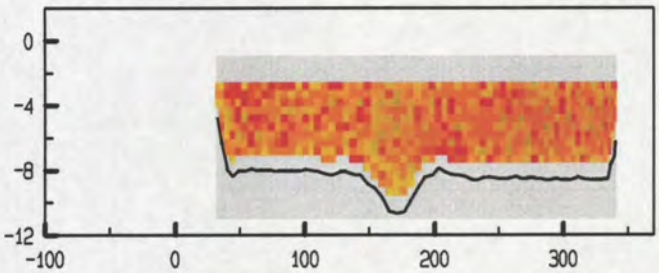
adcpfile : data/gevalid/1826/dw/1826008a.valtijd : 2138 - 2141



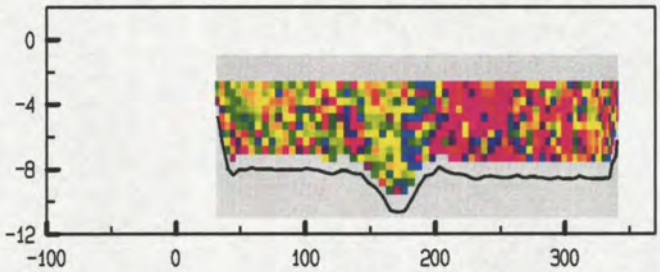
adcpfile : data/gevalid/1826/dw/1826008a.valtijd : 2138 - 2141



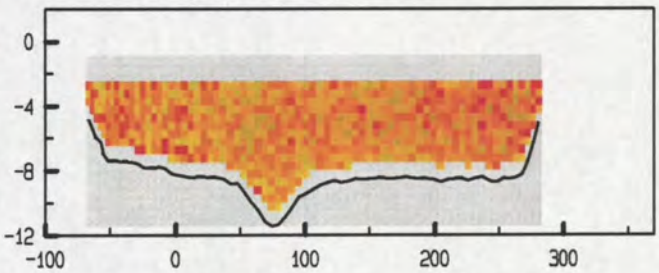
adcpfile : data/gevalid/1826/dw/1826009a.valtijd : 2143 - 2147



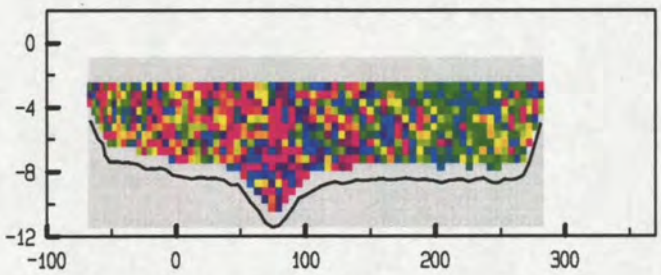
adcpfile : data/gevalid/1826/dw/1826009a.valtijd : 2143 - 2147



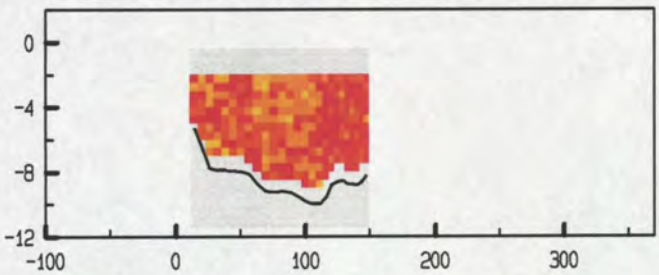
adcpfile : data/gevalid/1826/dw/1826010a.valtijd : 2151 - 2155



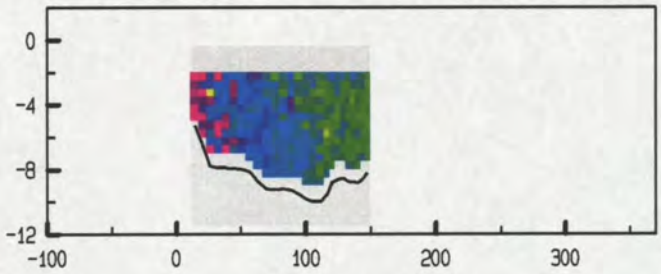
adcpfile : data/gevalid/1826/dw/1826010a.valtijd : 2151 - 2155

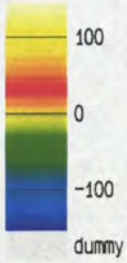


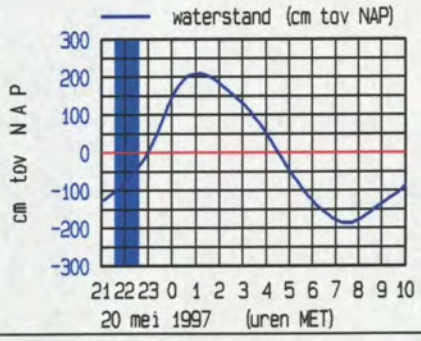
adcpfile : data/gevalid/1826/dw/1826013a.valtijd : 2235 - 2236



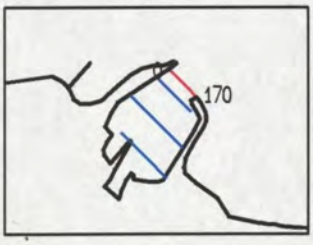
adcpfile : data/gevalid/1826/dw/1826013a.valtijd : 2235 - 2236

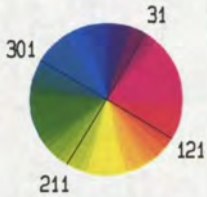






meetgebied

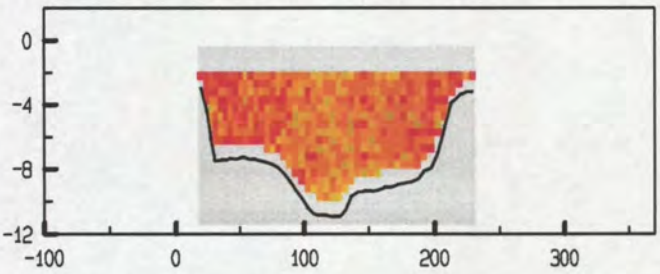




Veerhaven Breskens dd 20 mei 1997
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

adcpfile : data/gevalid/1826/dw/1826014a.valtijd : 2238 - 2240



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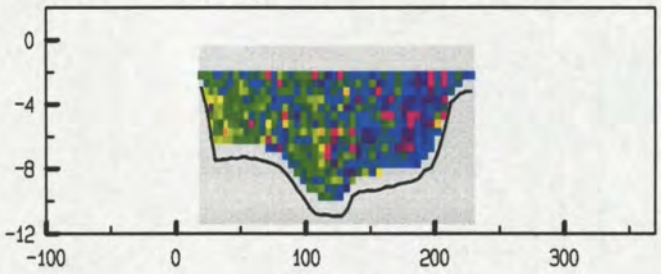

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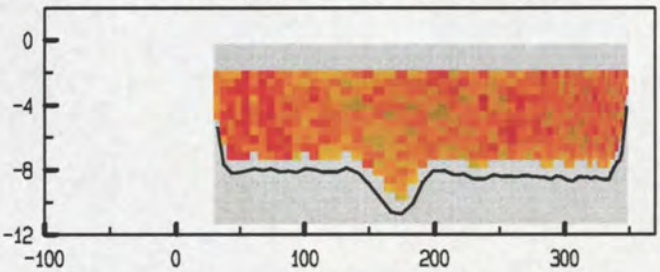
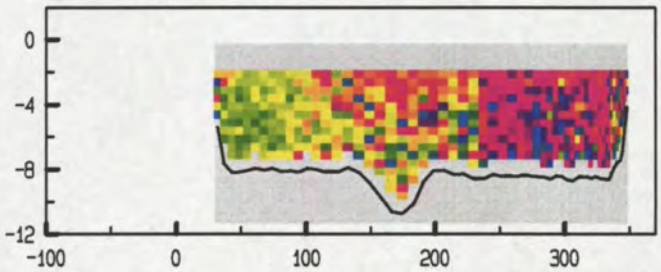
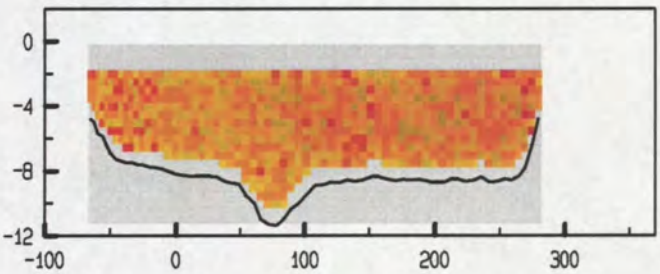


adcpfile : data/gevalid/1826/dw/1826015a.valtijd : 2242 - 2246



adcpfile : data/gevalid/1826/dw/1826016a.valtijd : 2249 - 2252



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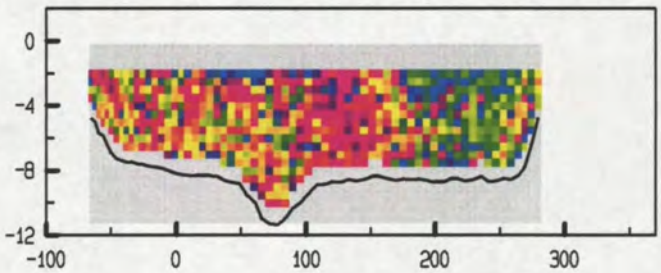
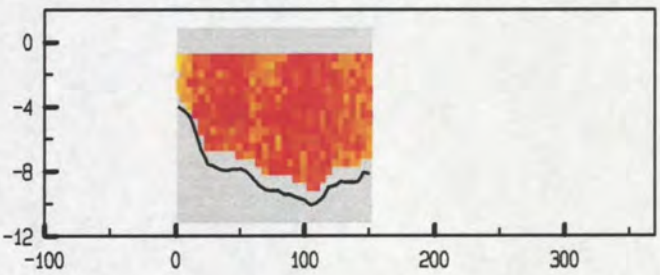
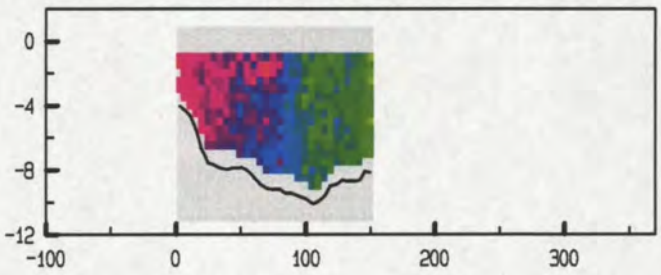


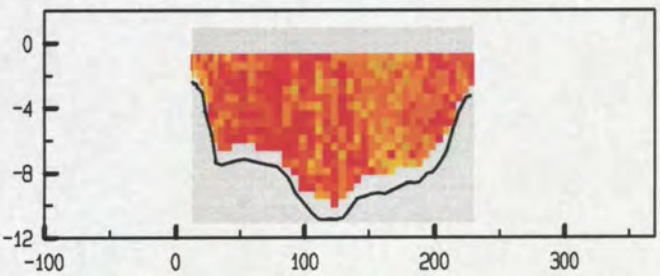
adcpfile : data/gevalid/1826/dw/1826019a.valtijd : 2336 - 2338



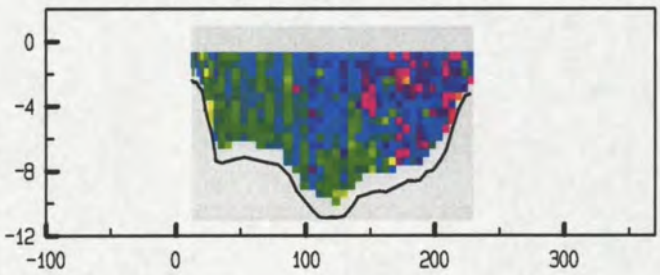
adcpfile : data/gevalid/1826/dw/1826019a.valtijd : 2336 - 2338

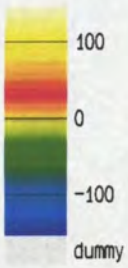


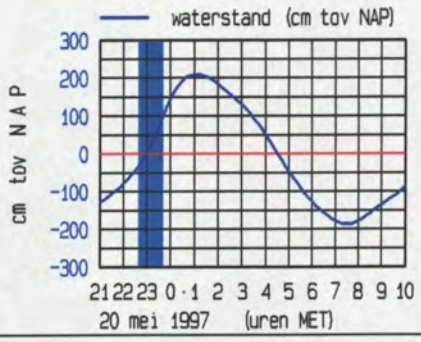
adcpfile : data/gevalid/1826/dw/1826020a.valtijd : 2339 - 2341



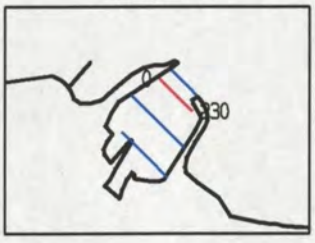
adcpfile : data/gevalid/1826/dw/1826020a.valtijd : 2339 - 2341

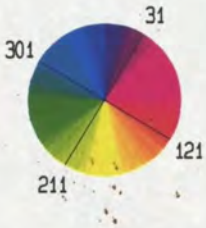






meetgebied

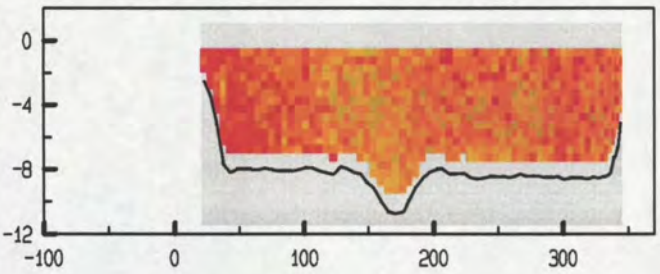




Veerhaven Breskens dd 21 mei 1997
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

adcpfile : data/gevalid/1826/dw/1826021a.valtijd : 2344 - 2348



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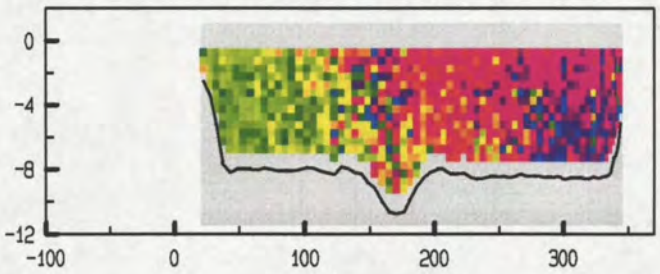
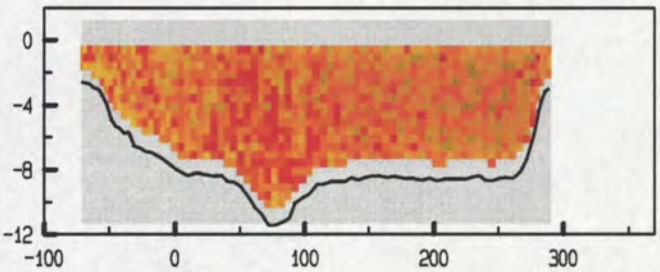
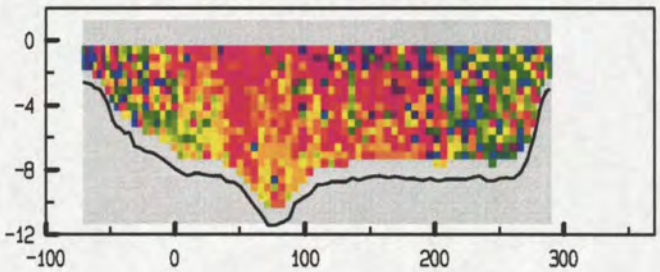


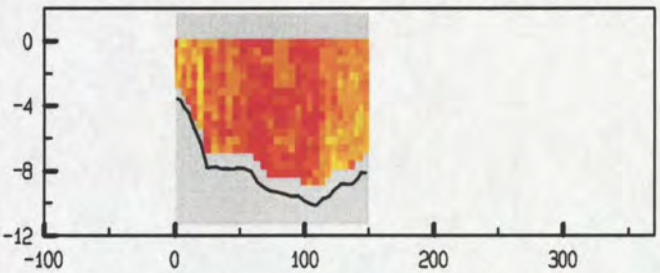
adcpfile : data/gevalid/1826/dw/1826022a.valtijd : 2350 - 2355



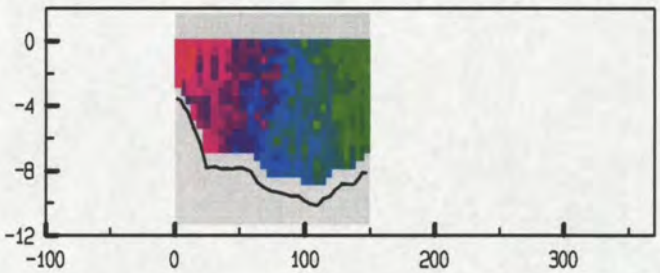
adcpfile : data/gevalid/1826/dw/1826022a.valtijd : 2350 - 2355



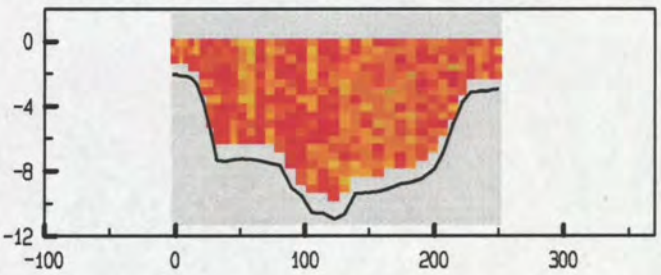
adcpfile : data/gevalid/1826/dw/1826025a.valtijd : 0014 - 0016



adcpfile : data/gevalid/1826/dw/1826025a.valtijd : 0014 - 0016



adcpfile : data/gevalid/1826/dw/1826026a.valtijd : 0016 - 0019



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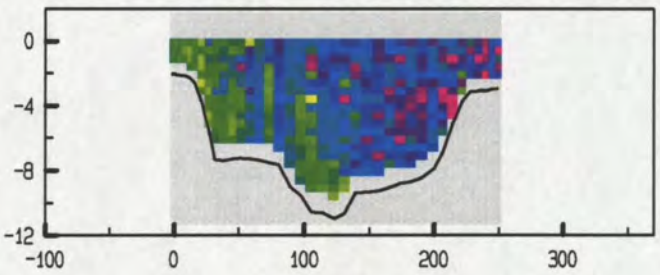
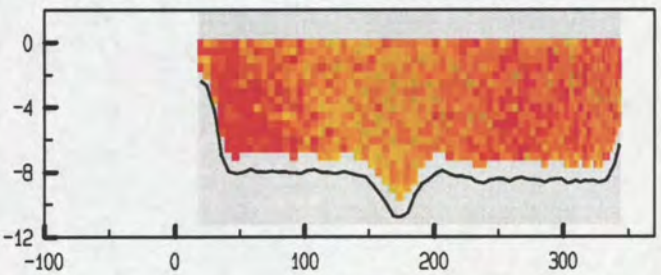
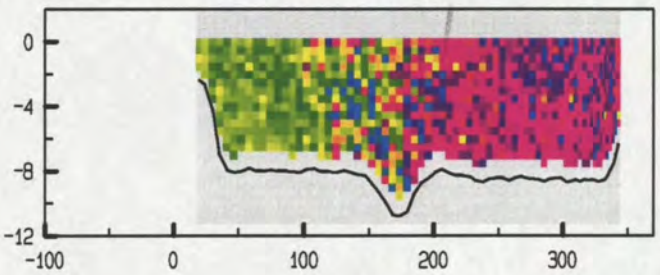
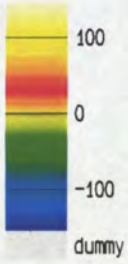


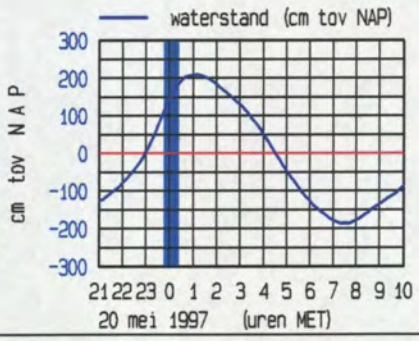
adcpfile : data/gevalid/1826/dw/1826027a.valtijd : 0020 - 0025



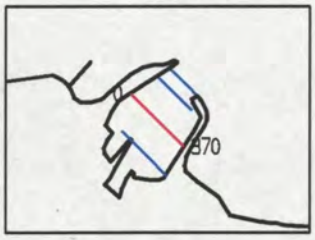
adcpfile : data/gevalid/1826/dw/1826027a.valtijd : 0020 - 0025

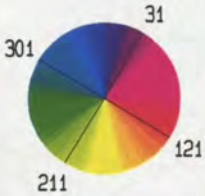






meetgebied

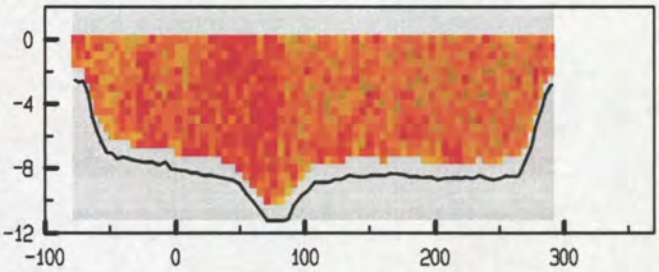




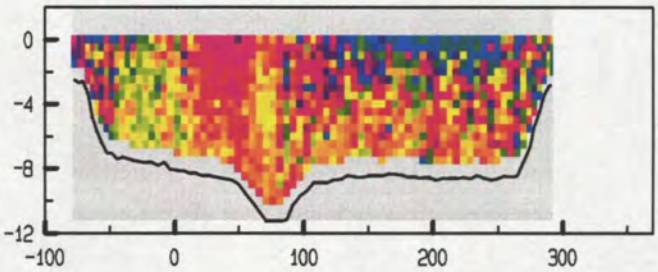
Veerhaven Breskens dd 21 mei 1997
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

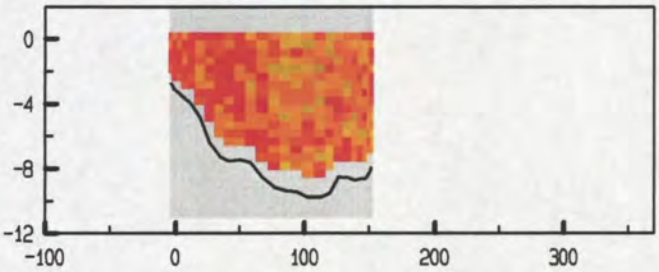
adcpfile : data/gevalid/1826/dw/1826028a.valtijd : 0027 - 0032



adcpfile : data/gevalid/1826/dw/1826028a.valtijd : 0027 - 0032



adcpfile : data/gevalid/1826/dw/1826031a.valtijd : 0050 - 0051



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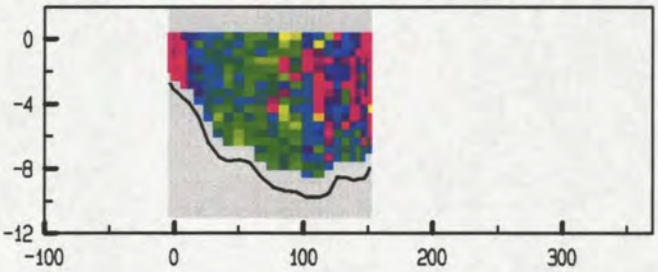
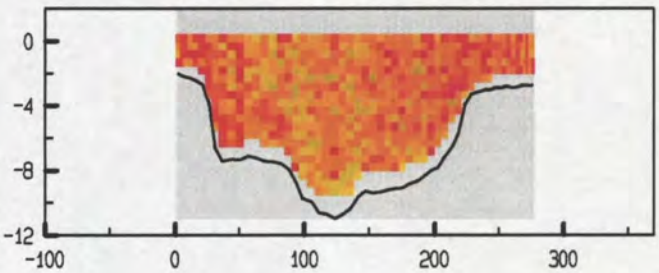
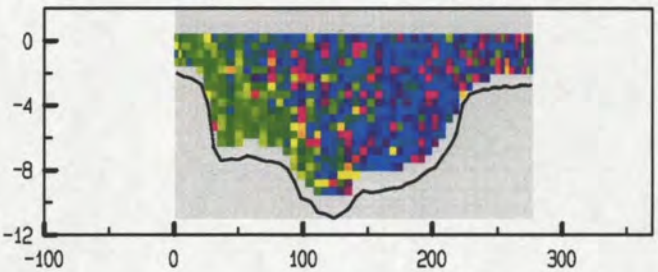


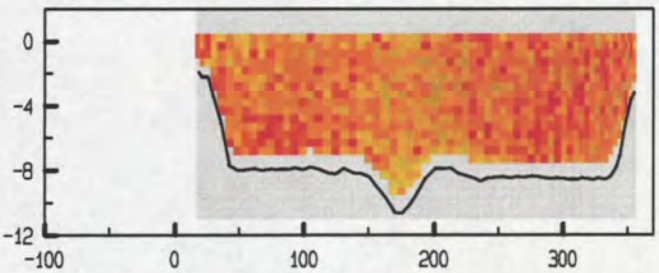
adcpfile : data/gevalid/1826/dw/1826032a.valtijd : 0052 - 0056



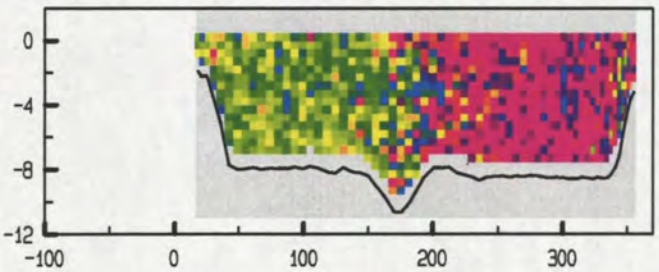
adcpfile : data/gevalid/1826/dw/1826032a.valtijd : 0052 - 0056



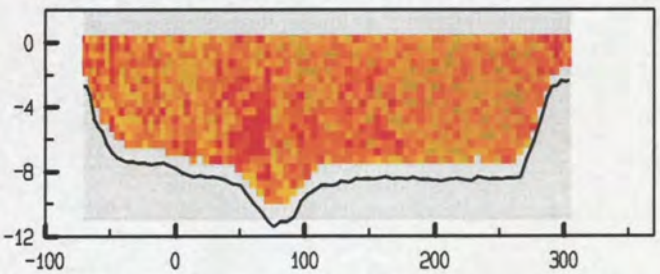
adcpfile : data/gevalid/1826/dw/1826033a.valtijd : 0058 - 0102



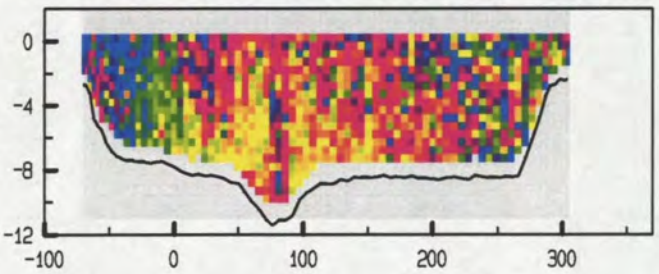
adcpfile : data/gevalid/1826/dw/1826033a.valtijd : 0058 - 0102

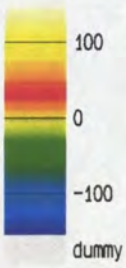


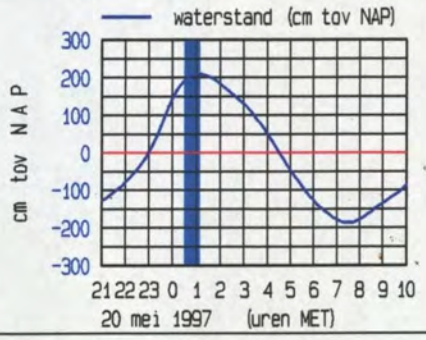
adcpfile : data/gevalid/1826/dw/1826034a.valtijd : 0104 - 0109



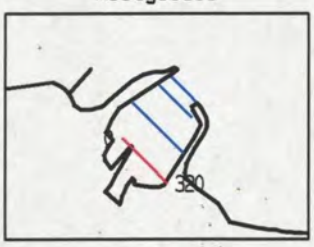
adcpfile : data/gevalid/1826/dw/1826034a.valtijd : 0104 - 0109

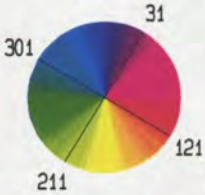






meetgebied

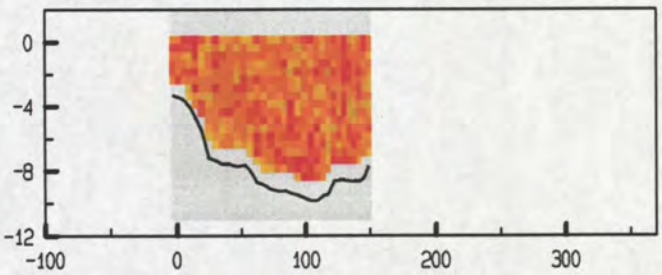




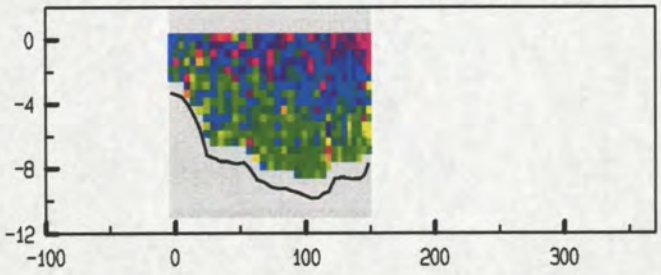
Veerhaven Breskens dd 21 mei 1997
gemeten snelheid (cm/sec)

gemeten richting (° tov N)

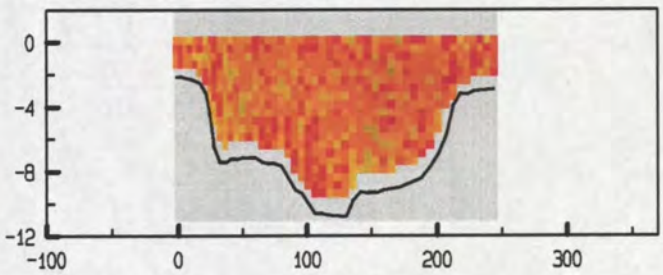
adcpfile : data/gevalid/1826/dw/1826037a.valtijd : 0128 - 0130



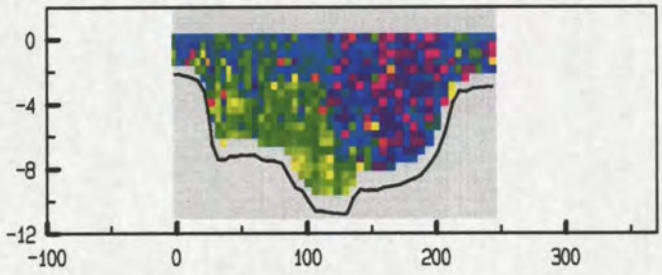
adcpfile : data/gevalid/1826/dw/1826037a.valtijd : 0128 - 0130



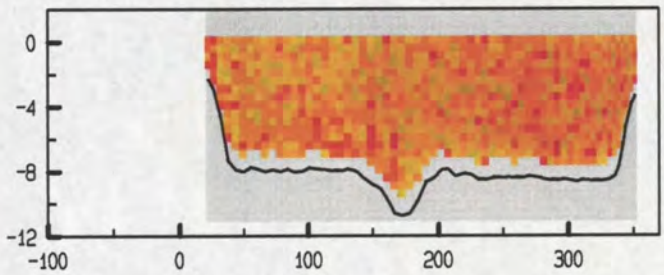
adcpfile : data/gevalid/1826/dw/1826038a.valtijd : 0130 - 0133



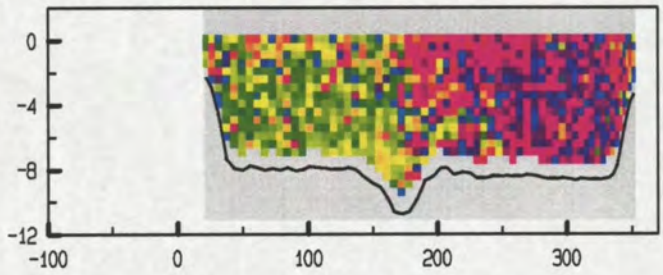
adcpfile : data/gevalid/1826/dw/1826038a.valtijd : 0130 - 0133



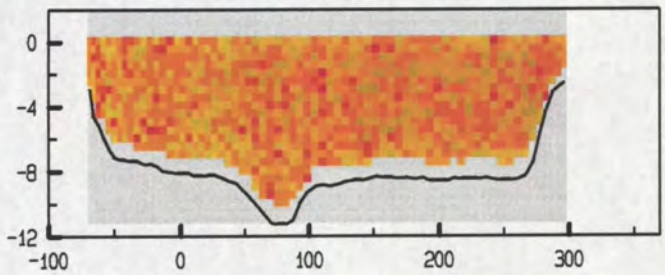
adcpfile : data/gevalid/1826/dw/1826039a.valtijd : 0136 - 0139



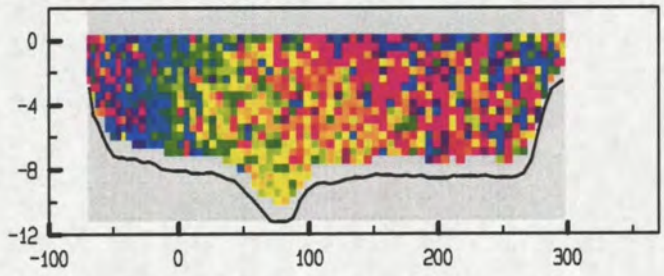
adcpfile : data/gevalid/1826/dw/1826039a.valtijd : 0136 - 0139

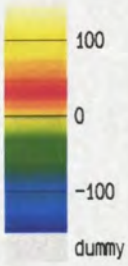


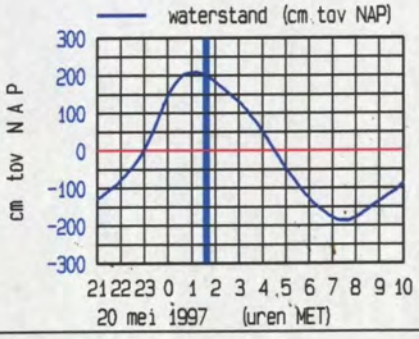
adcpfile : data/gevalid/1826/dw/1826040a.valtijd : 0141 - 0145



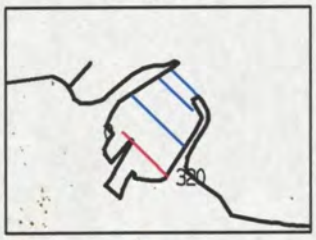
adcpfile : data/gevalid/1826/dw/1826040a.valtijd : 0141 - 0145

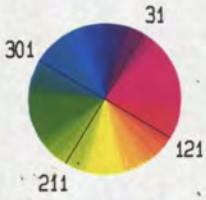






meetgebied

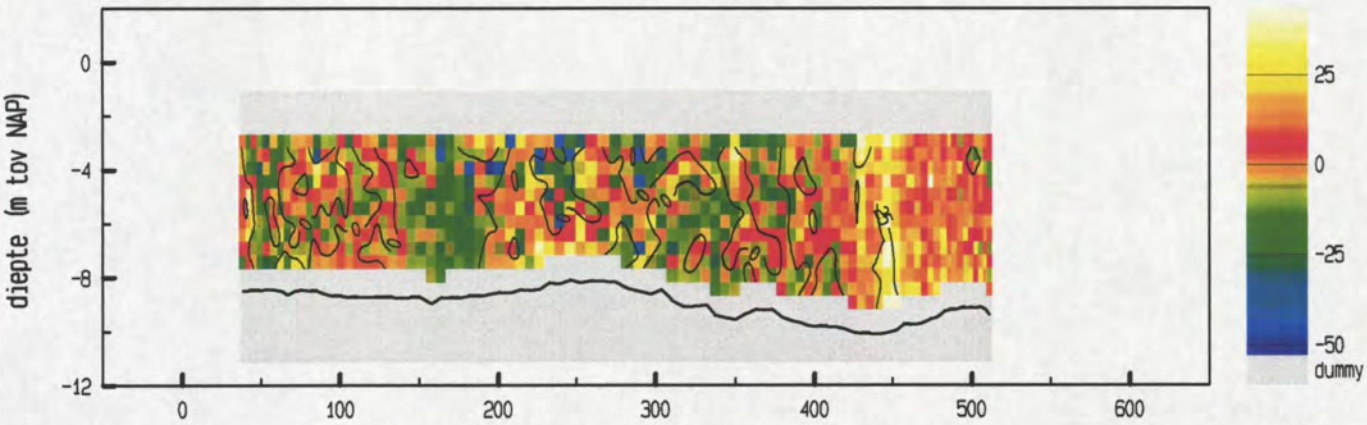




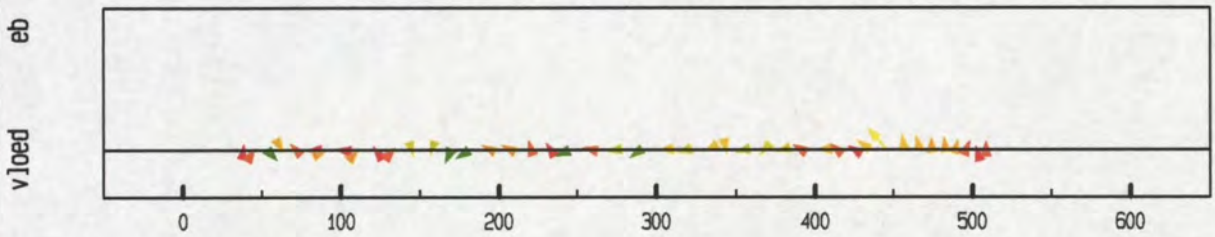
23a. Gemeten gegevens raai-1.

Veerhaven Breskens dd 20 mei 1997 tijd : 2128 - 2133
adcpfile : data/gevalid/1826/ln/1826006a.val

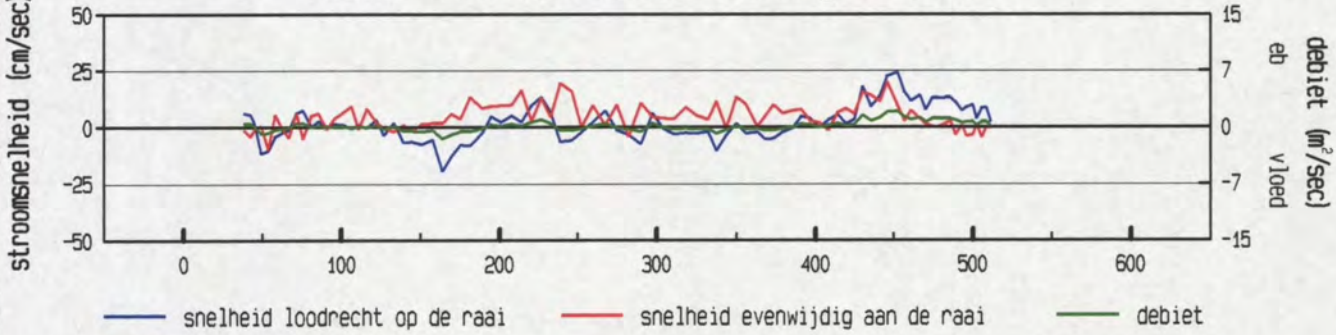
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



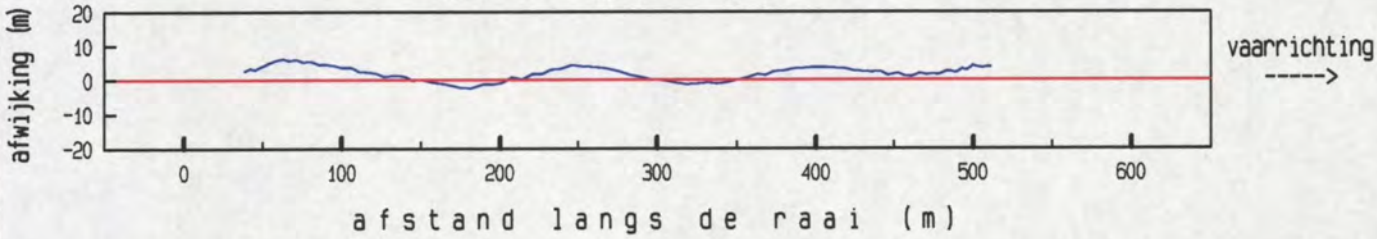
gemiddelde stroomsnelheid in de vertikaal

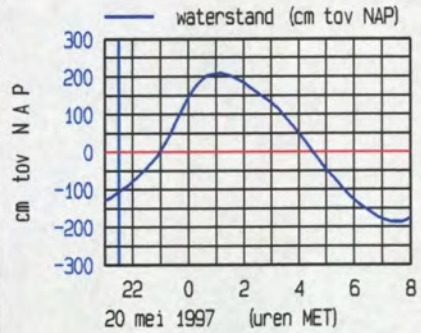


debiet- en stroomsnelheidsverdeling in de raai

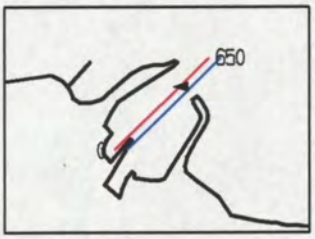


gevaren traject langs de raai





meetgebied



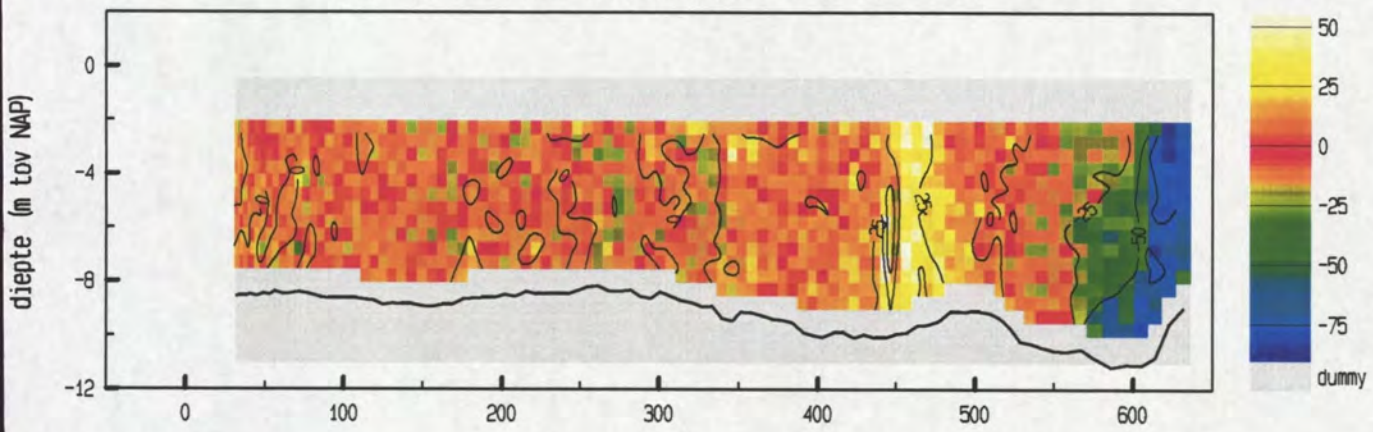
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	446 m
stroomsnelheid	:	30 cm/sec
stroomrichting	:	269 °
doorstroomoppervlak	:	3766 m²
raaidebiet	:	63 m³/sec

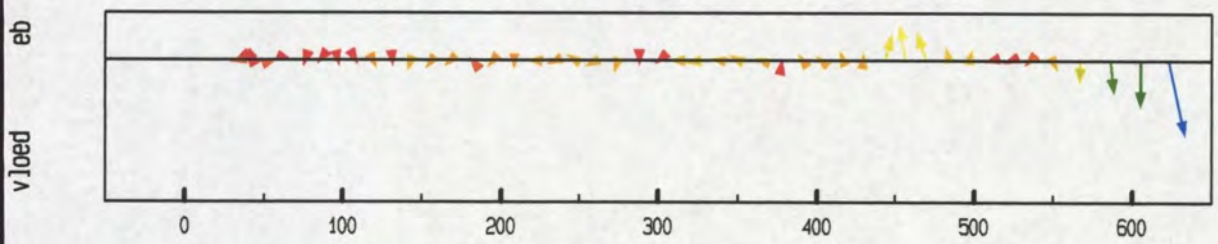
adcpfile : data/gevalid/1826/ln/1826006a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2227 - 2233
adcpfile : data/gevalid/1826/ln/1826012a.val

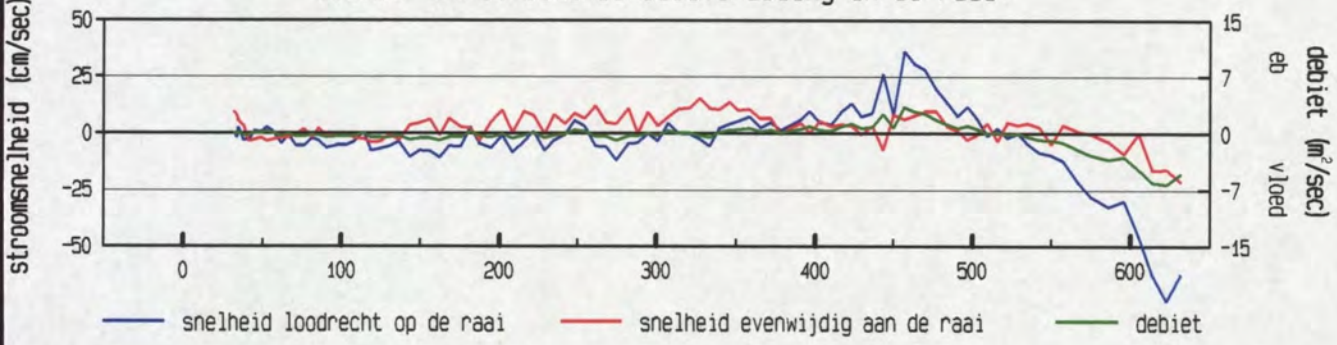
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



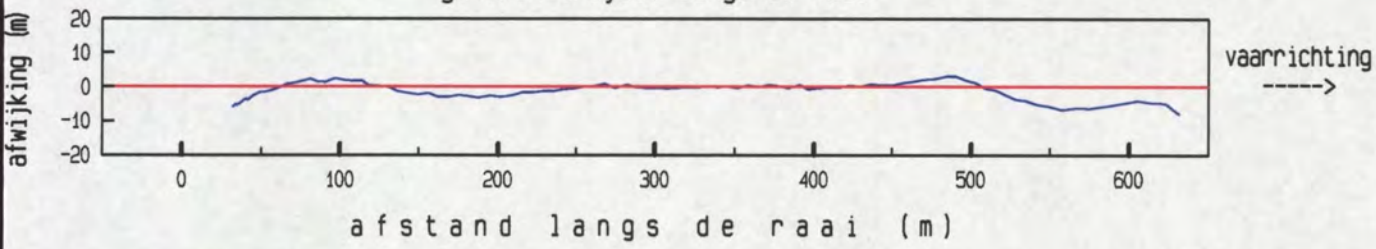
gemiddelde stroomsnelheid in de vertikaal

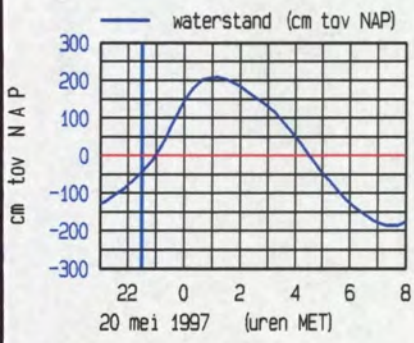


debiet- en stroomsnelheidsverdeling in de raai

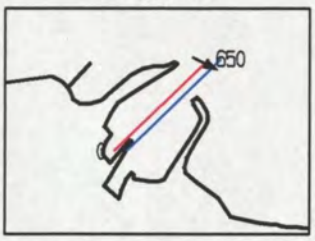


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

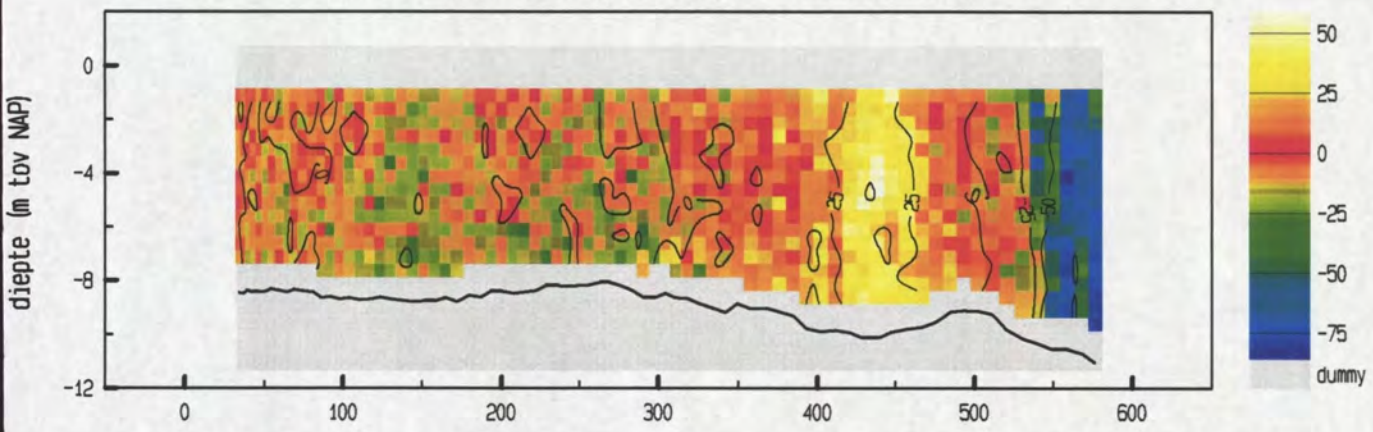
afstand uit nulpunt : 623 m
stroomsnelheid : 76 cm/sec
stroomrichting : 118 °

doorstroomoppervlak : 5344 m²
raaidebiet : -267 m³/sec

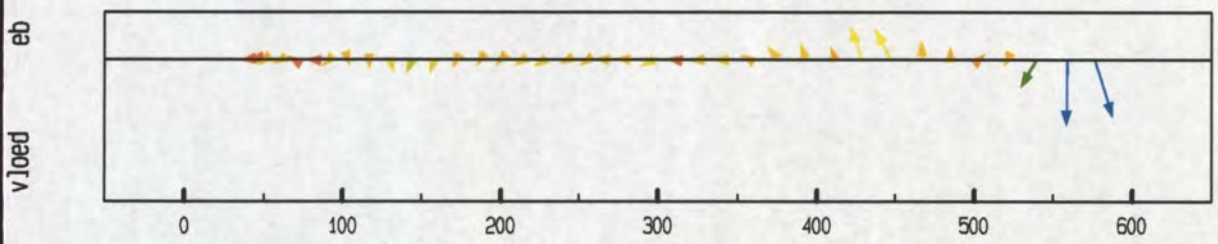
adcpfile : data/gevalid/1826/ln/1826012a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2329 - 2333
adcpfile : data/gevalid/1826/ln/1826018a.val

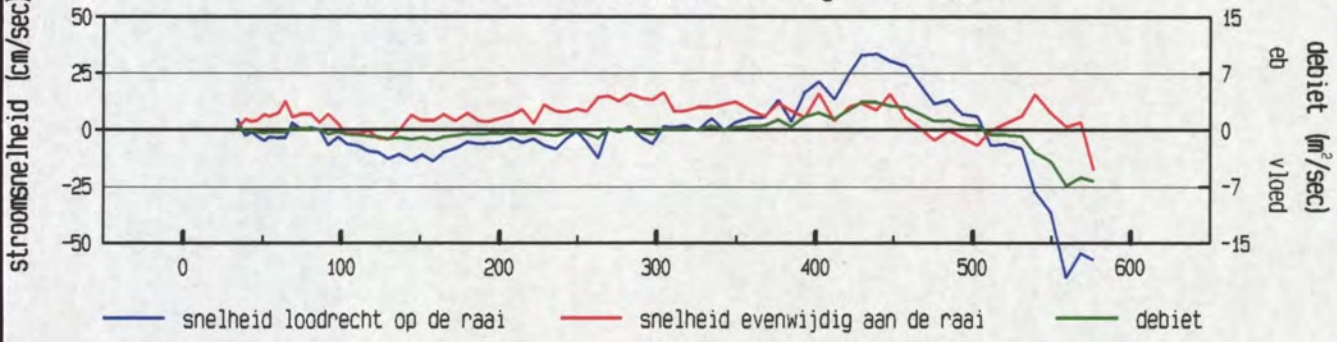
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



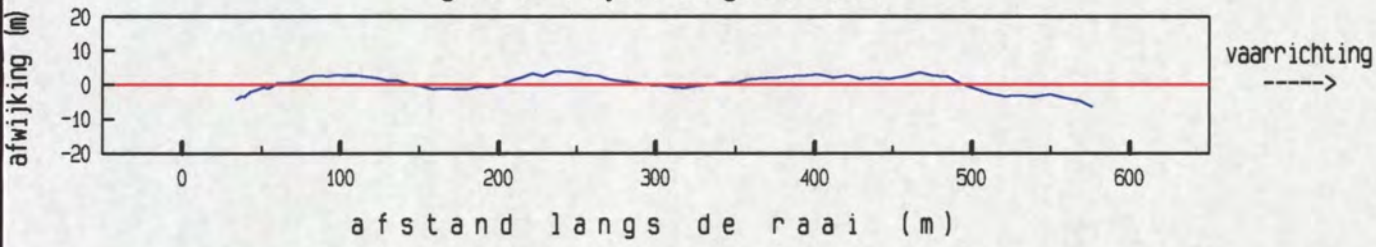
gemiddelde stroomsnelheid in de vertikaal

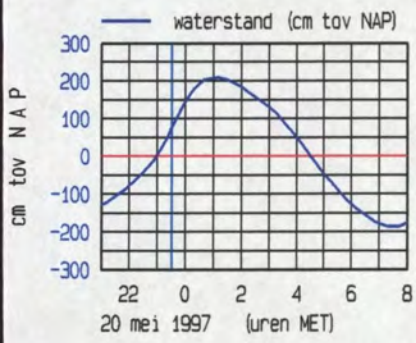


debiet- en stroomsnelheidsverdeling in de raai

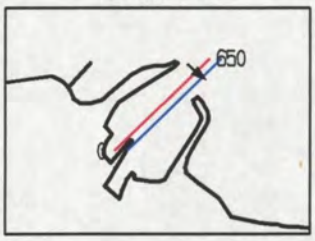


gevaren traject langs de raai





meetgebied



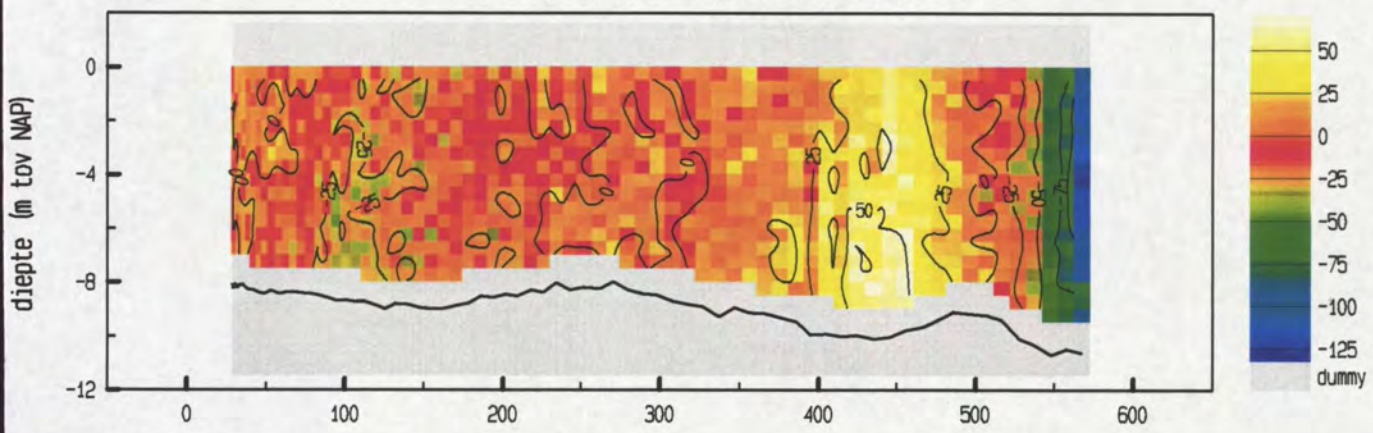
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	559 m
stroomsnelheid	:	65 cm/sec
stroomrichting	:	131 °
doorstroomoppervlak	:	5378 m²
raaidebiet	:	-120 m³/sec

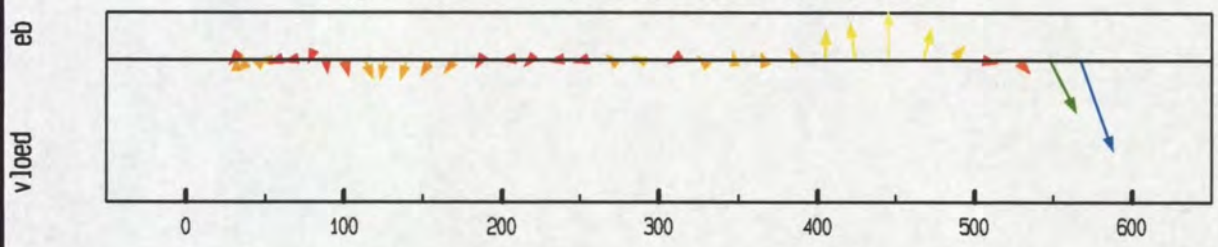
adcpfile : data/gevalid/1826/ln/1826018a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0007 - 0012
adcpfile : data/gevalid/1826/ln/1826024a.val

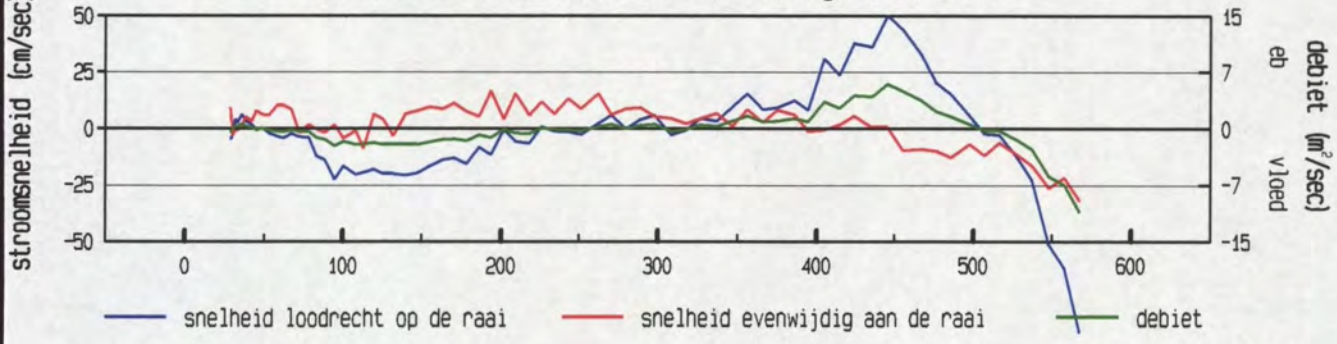
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



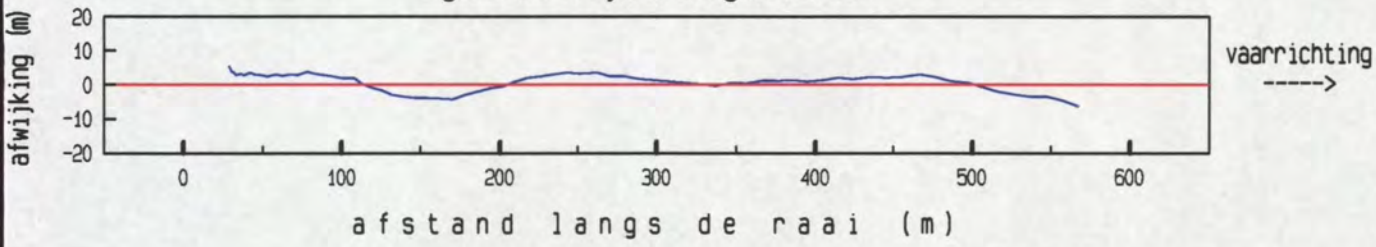
gemiddelde stroomsnelheid in de vertikaal

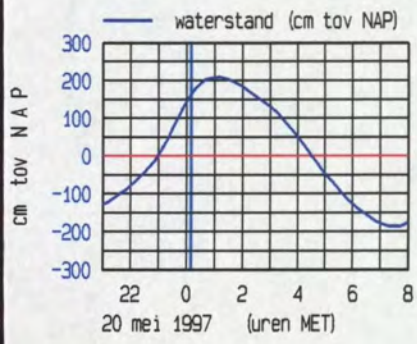


debiet- en stroomsnelheidsverdeling in de raai

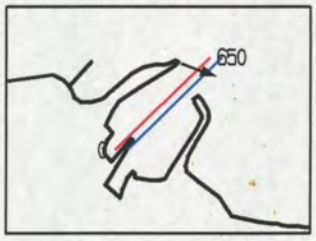


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

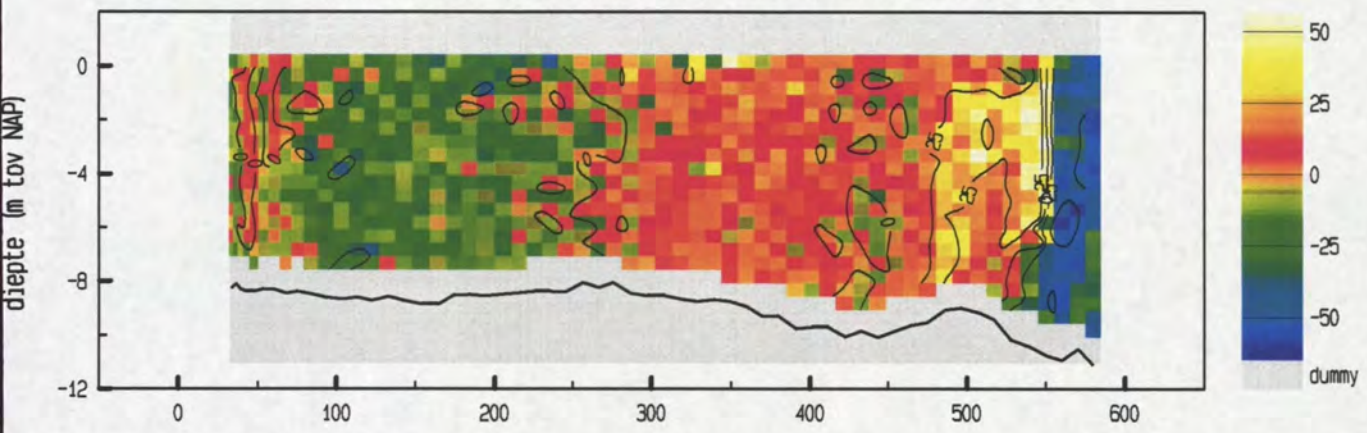
afstand uit nulpunt : 567 m
stroomsnelheid : 96 cm/sec
stroomrichting : 111 °

doorstroomoppervlak : 5824 m²
raaidebiet : -77 m³/sec

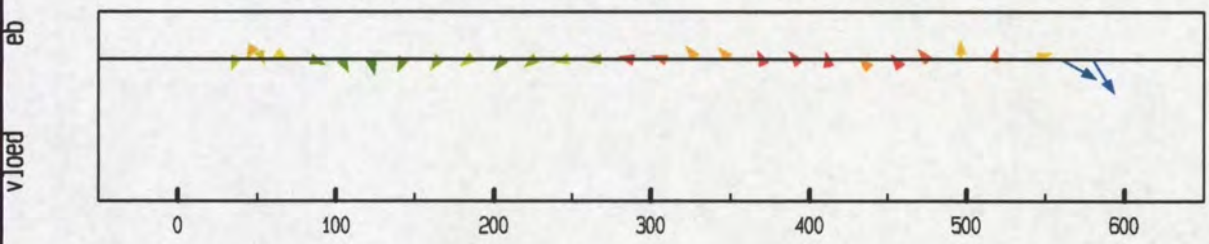
adcpfile : data/gevalid/1826/ln/1826024a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0044 - 0048
adcpfile : data/gevalid/1826/ln/1826030a.val

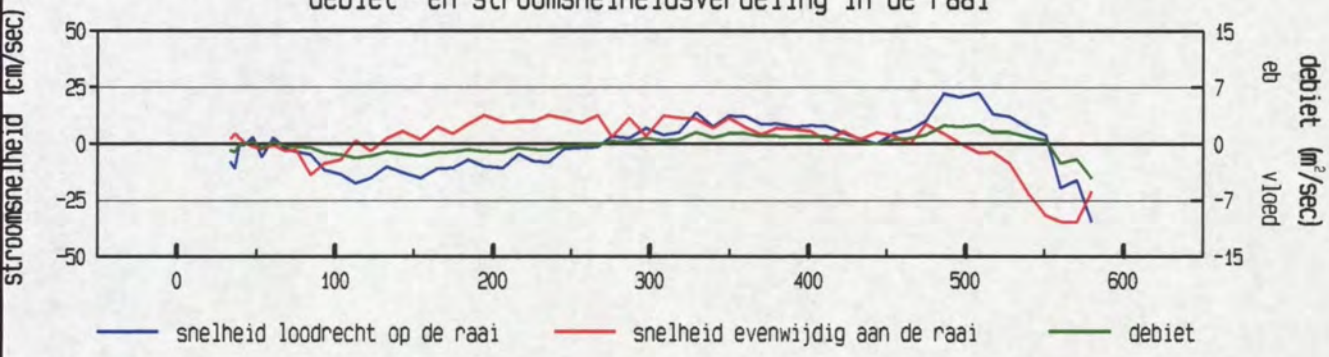
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



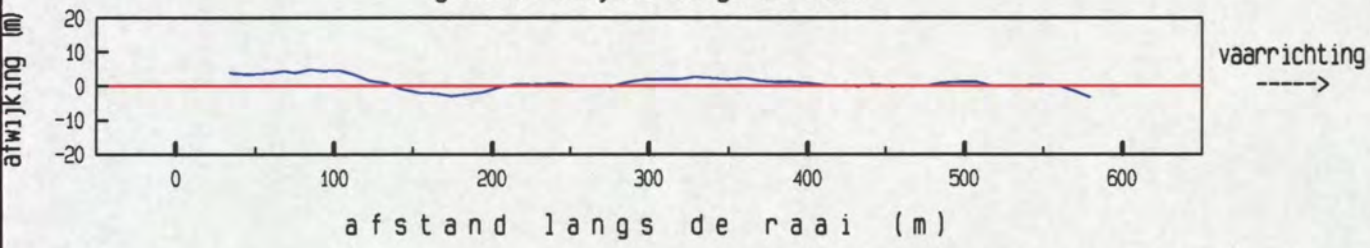
gemiddelde stroomsnelheid in de vertikaal

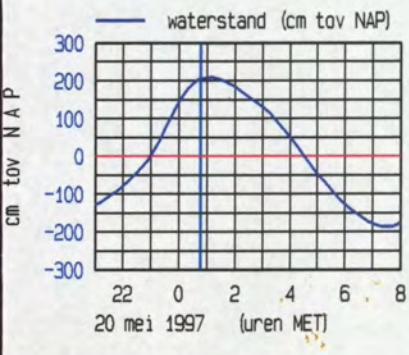


debiet- en stroomsnelheidsverdeling in de raai

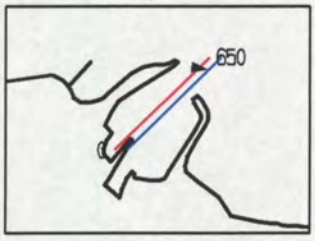


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

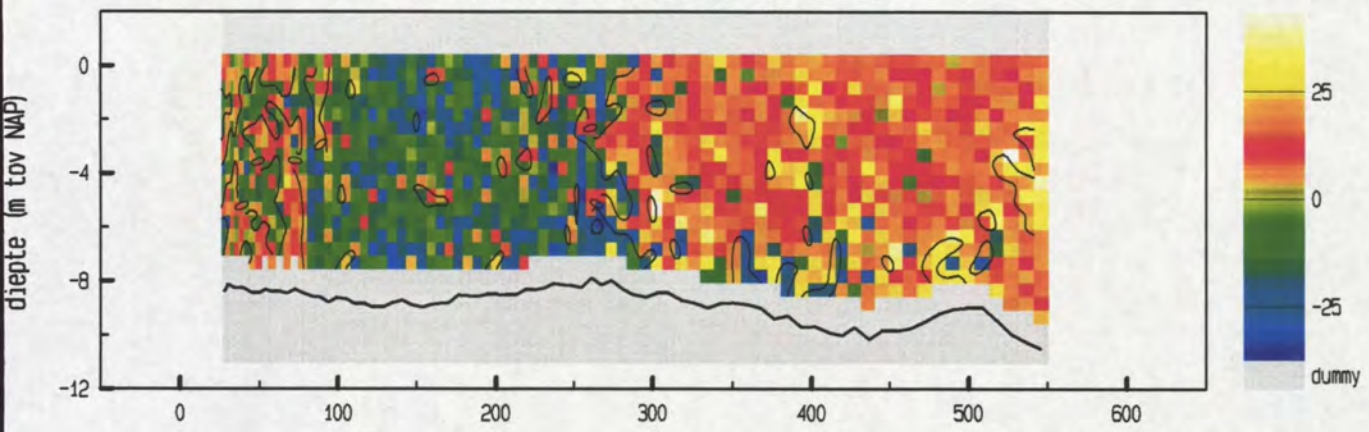
afstand uit nulpunt : 580 m
stroomsnelheid : 40 cm/sec
stroomrichting : 98 °

doorstroomoppervlak : 6132 m²
raaidebiet : 0 m³/sec

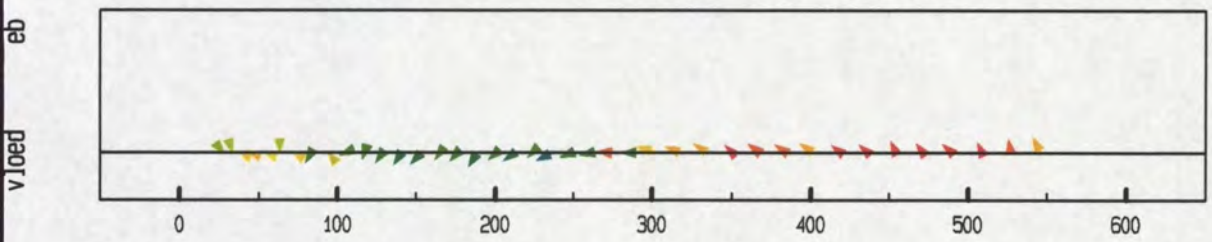
adcpfile : data/gevalid/1826/ln/1826030a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0121 - 0126
adcpfile : data/gevalid/1826/ln/1826036a.val

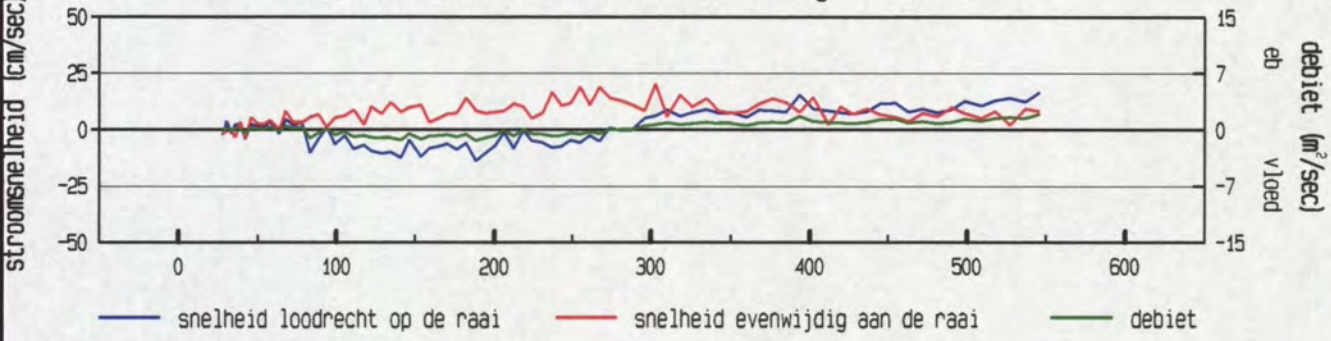
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



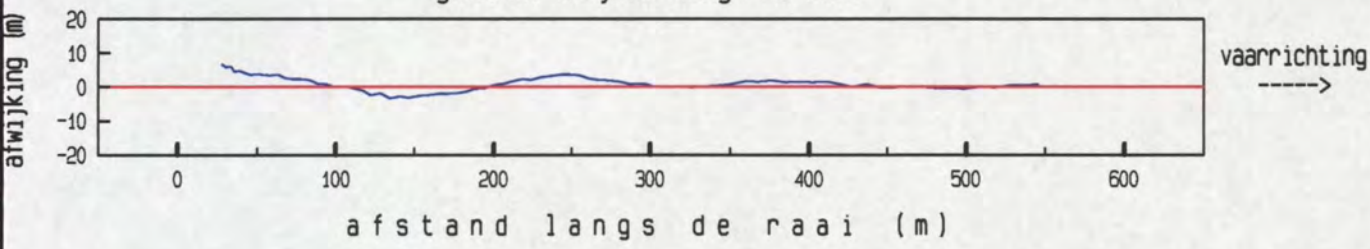
gemiddelde stroomsnelheid in de vertikaal

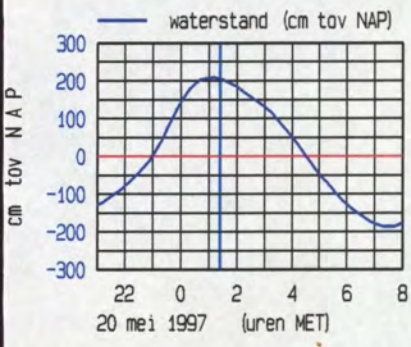


debiet- en stroomsnelheidsverdeling in de raai

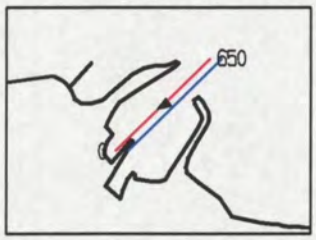


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt : 303 m
stroomsnelheid : 21 cm/sec
stroomrichting : 237 °

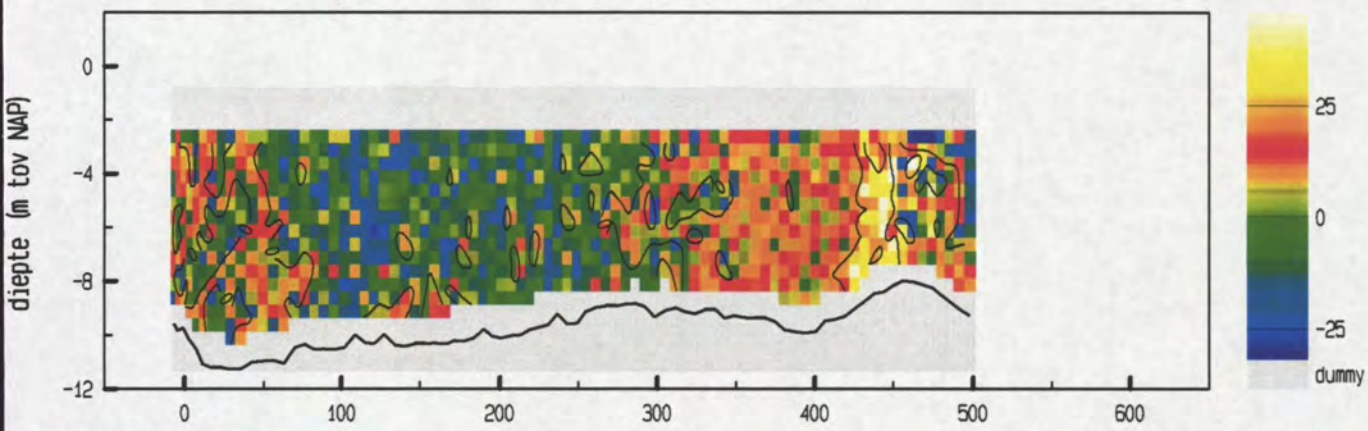
doorstroomoppervlak : 5754 m²
raaidebiet : 153 m³/sec

adcpfile : data/gevalid/1826/ln/1826036a.val

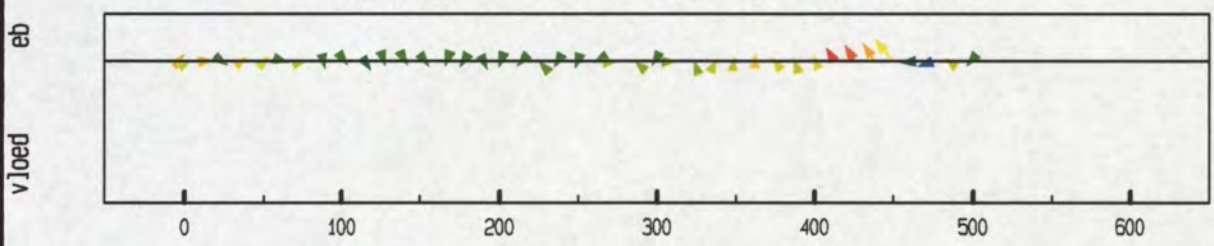
23b. Gemeten gegevens raai-6.

Veerhaven Breskens dd 20 mei 1997 tijd : 2158 - 2203
adcpfile : data/gevalid/1826/ln/1826011a.val

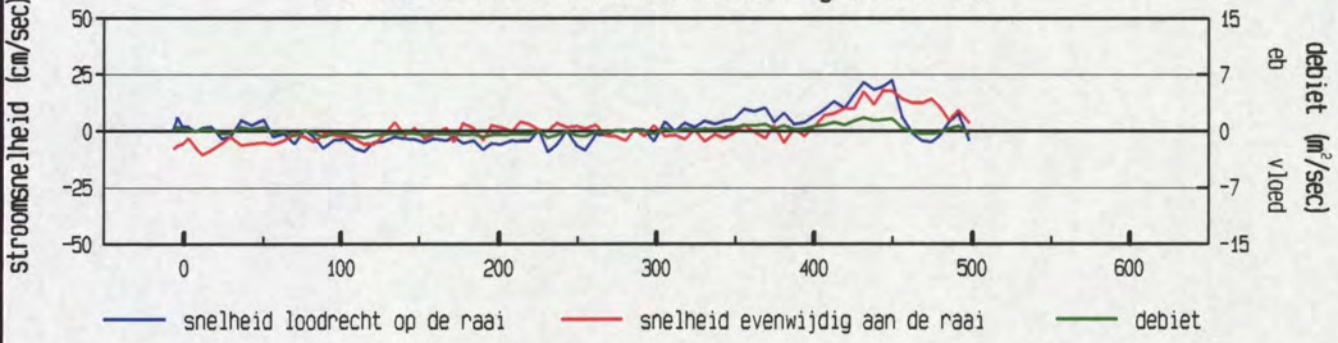
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



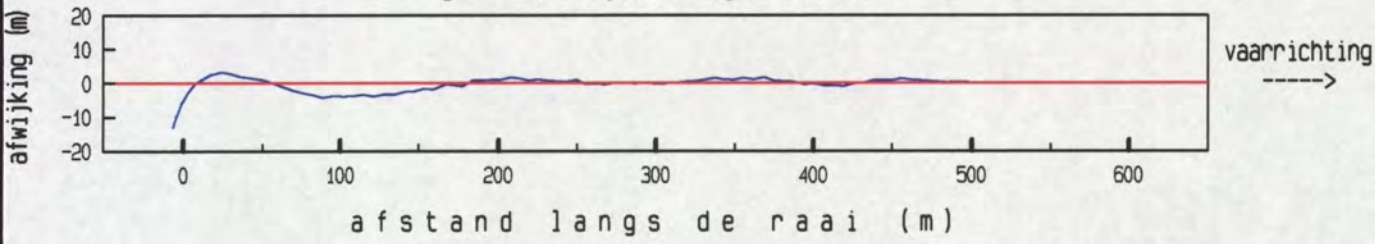
gemiddelde stroomsnelheid in de vertikaal

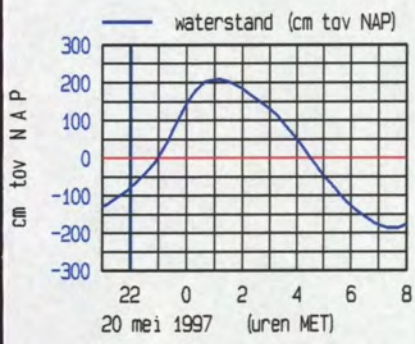


debiet- en stroomsnelheidsverdeling in de raai

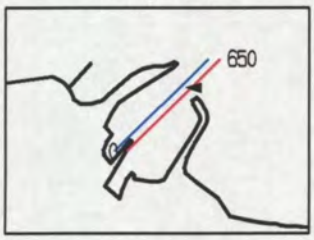


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

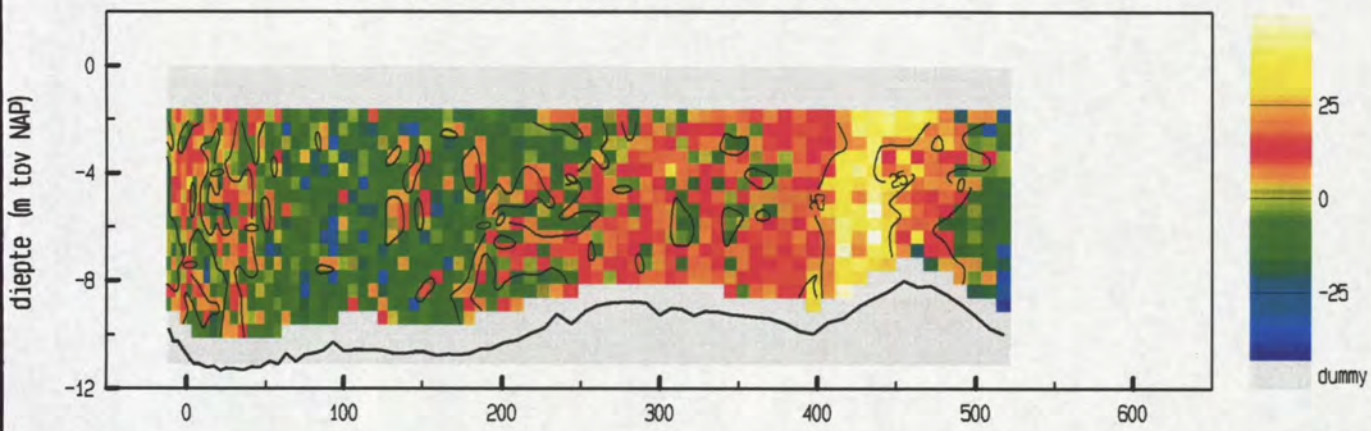
afstand uit nulpunt : 450 m
stroomsnelheid : 29 cm/sec
stroomrichting : 271 °

doorstroomoppervlak : 4560 m²
raaidebiet : 30 m³/sec

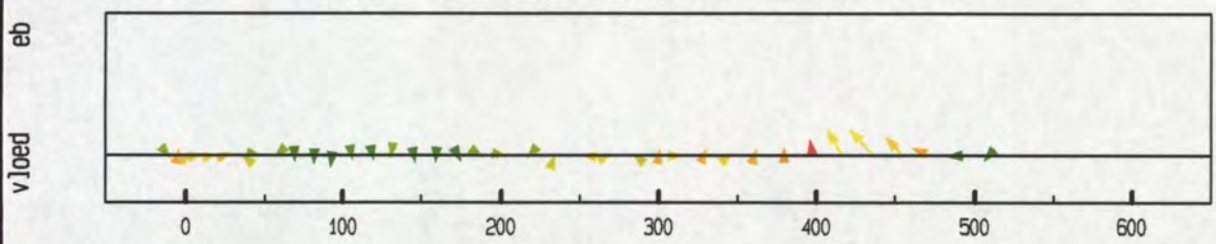
adcpfile : data/gevalid/1826/ln/1826011a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2255 - 2259
adcpfile : data/gevalid/1826/ln/1826017a.val

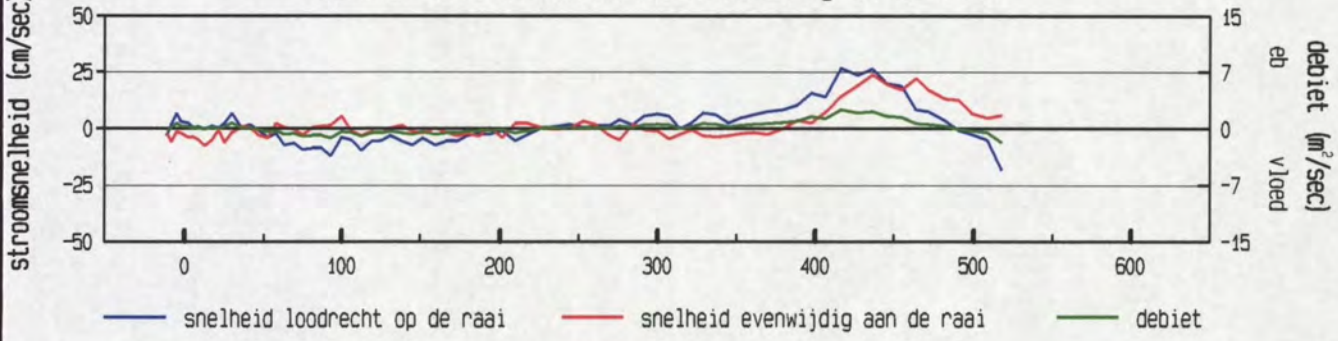
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



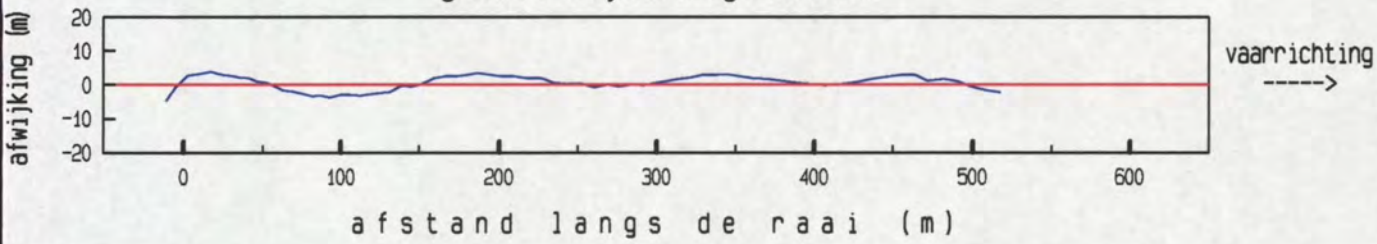
gemiddelde stroomsnelheid in de vertikaal

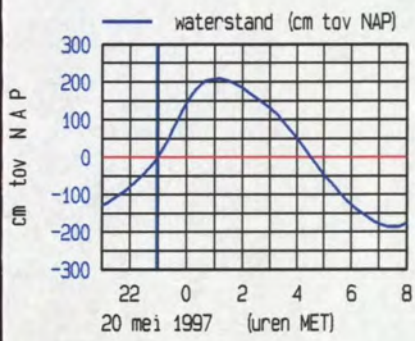


debiet- en stroomsnelheidsverdeling in de raai

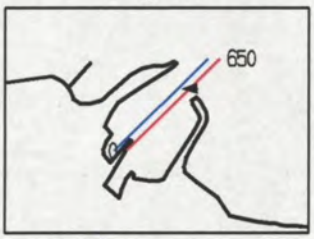


gevaren traject langs de raai





meetgebied



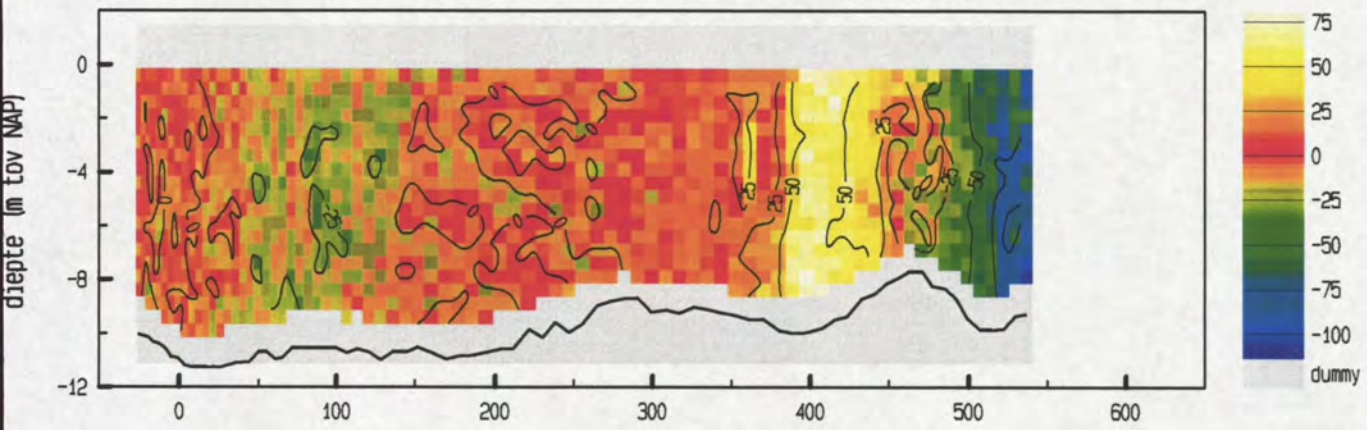
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	436 m
stroomsnelheid	:	36 cm/sec
stroomrichting	:	268 °
doorstroomoppervlak	:	5246 m²
raaidebiet	:	91 m³/sec

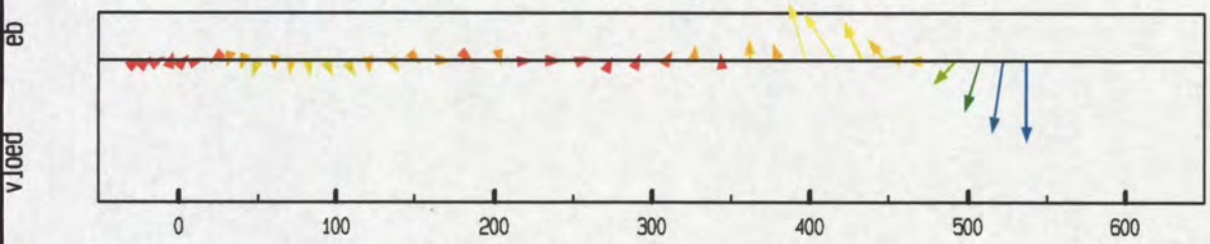
adcpfile : data/gevalid/1826/ln/1826017a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2358 - 0002
adcpfile : data/gevalid/1826/ln/1826023a.val

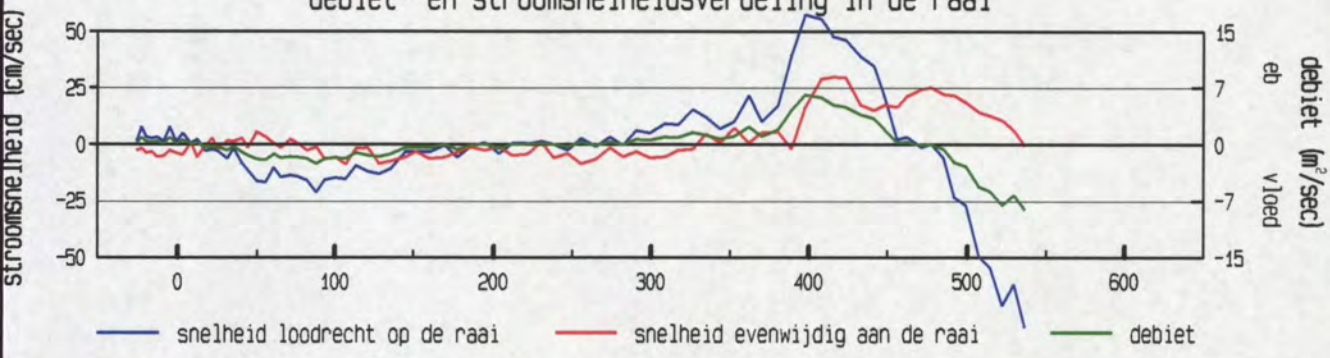
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



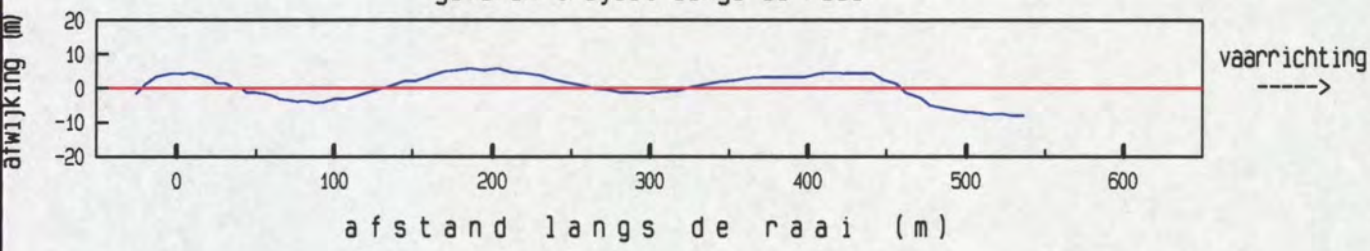
gemiddelde stroomsnelheid in de vertikaal

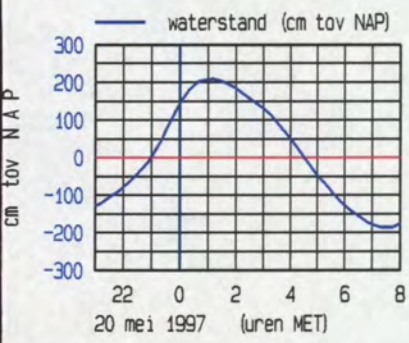


debiet- en stroomsnelheidsverdeling in de raai

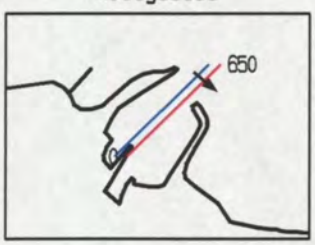


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

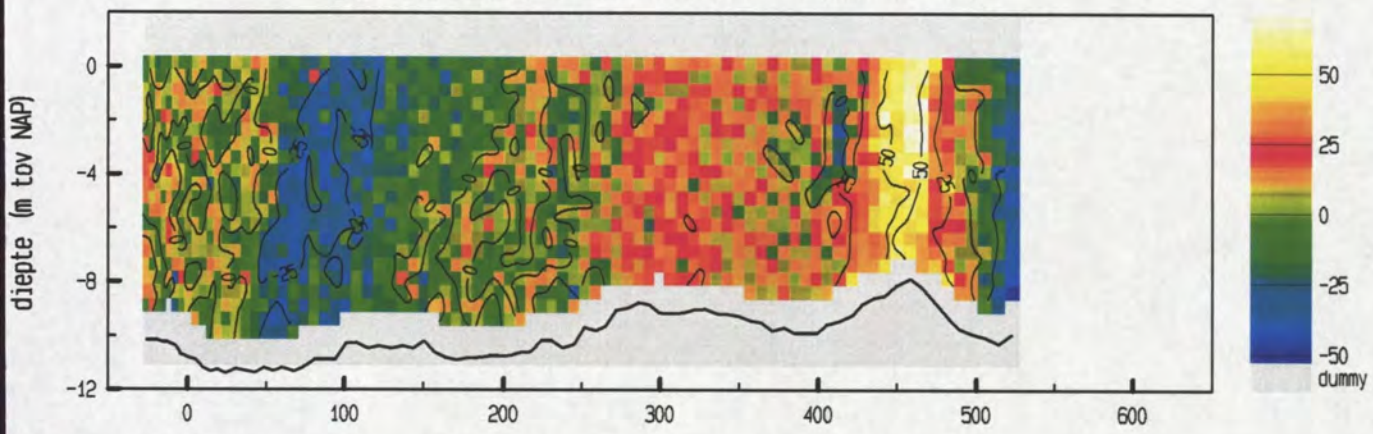
afstand uit nulpunt : 537 m
stroomsnelheid : 81 cm/sec
stroomrichting : 130 °

doorstroomoppervlak : 6432 m²
raaidebiet : -39 m³/sec

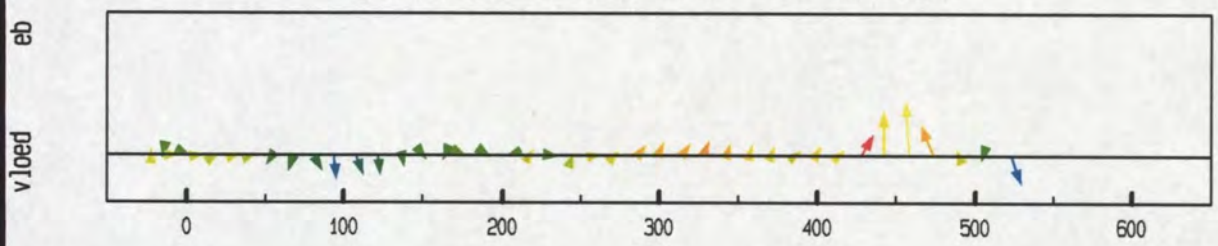
adcpfile : data/gevalid/1826/ln/1826023a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0035 - 0040
adcpfile : data/gevalid/1826/ln/1826029a.val

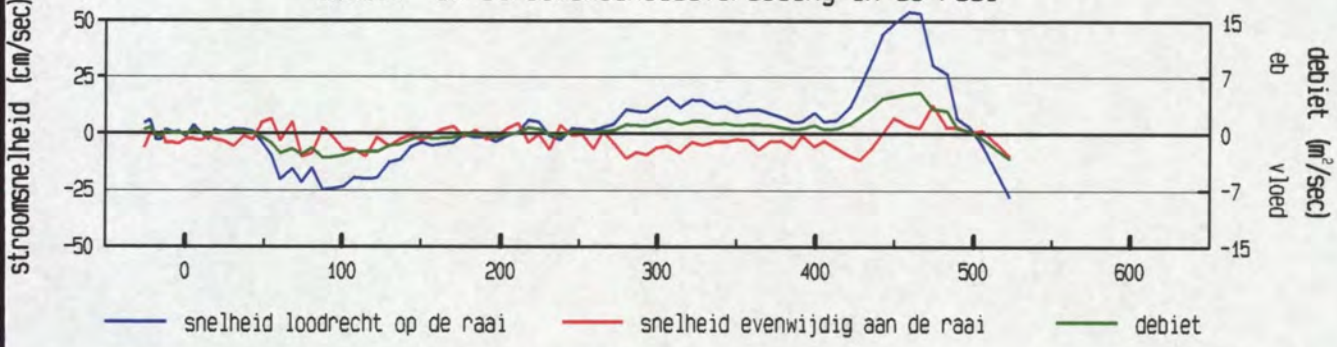
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



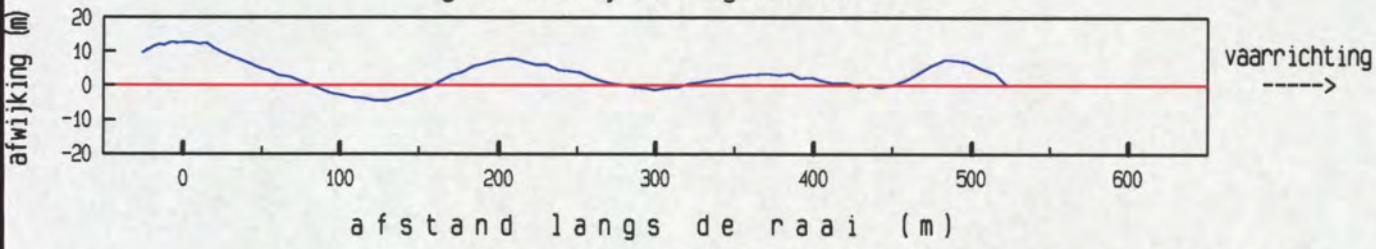
gemiddelde stroomsnelheid in de vertikaal

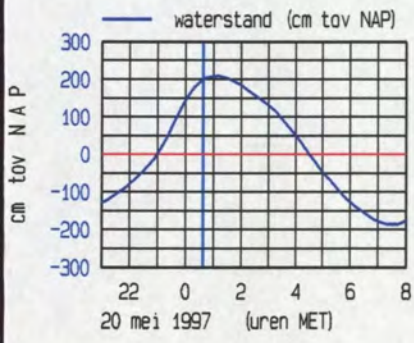


debiet- en stroomsnelheidsverdeling in de raai

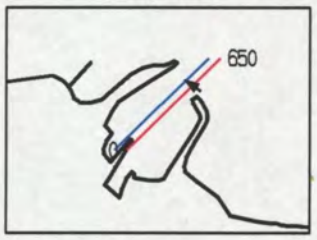


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

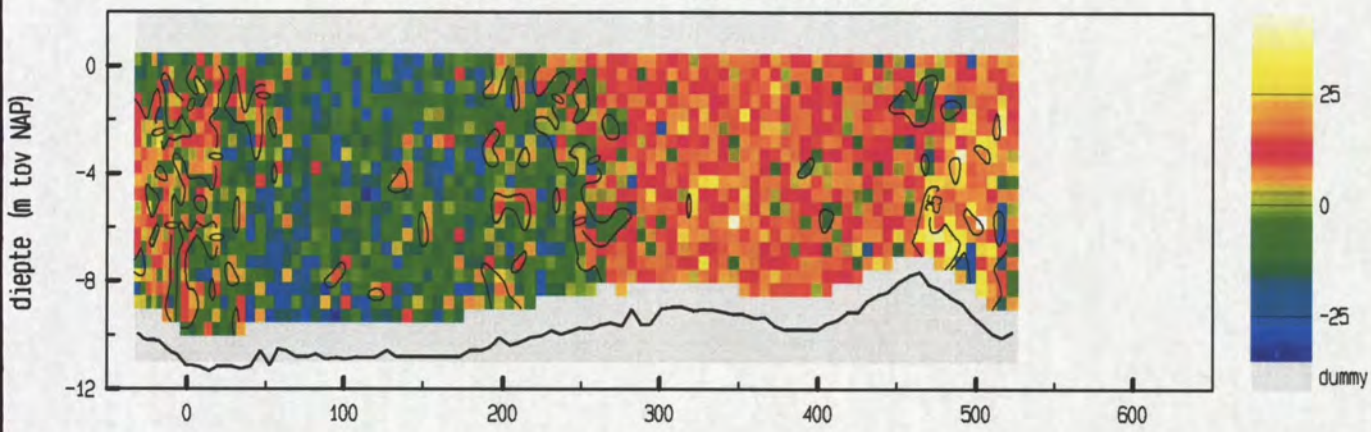
afstand uit nulpunt : 458 m
stroomsnelheid : 54 cm/sec
stroomrichting : 306 °

doorstroomoppervlak : 6657 m²
raaidebiet : 164 m³/sec

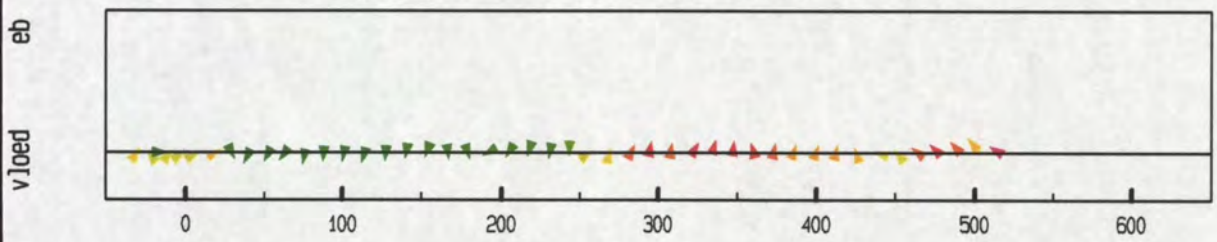
adcpfile : data/gevalid/1826/ln/1826029a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0112 - 0117
adcpfile : data/gevalid/1826/ln/1826035a.val

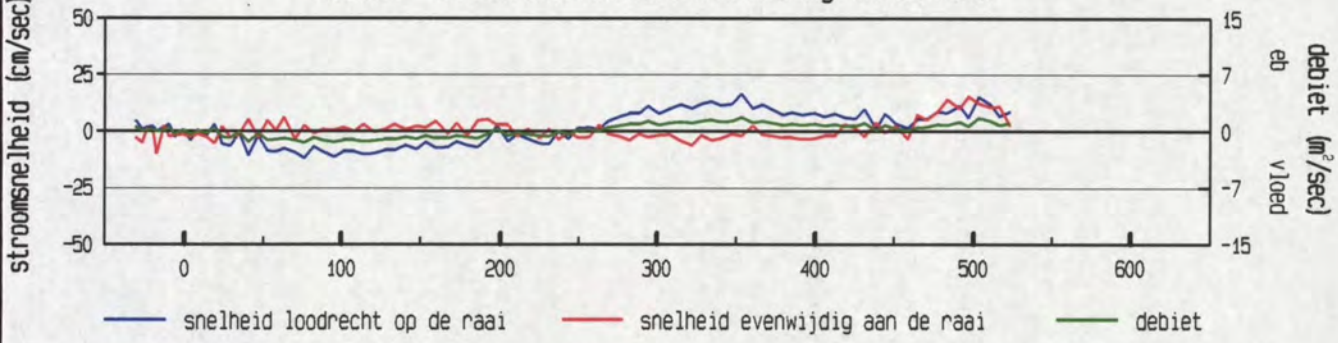
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



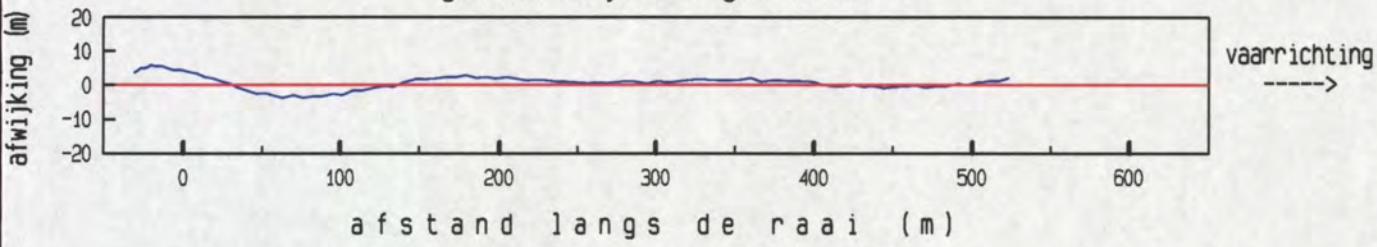
gemiddelde stroomsnelheid in de vertikaal

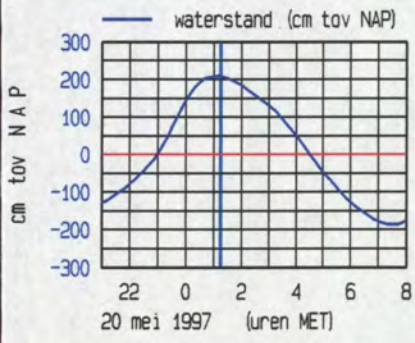


debiet- en stroomsnelheidsverdeling in de raai

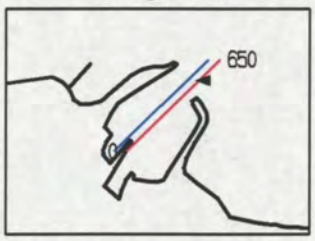


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

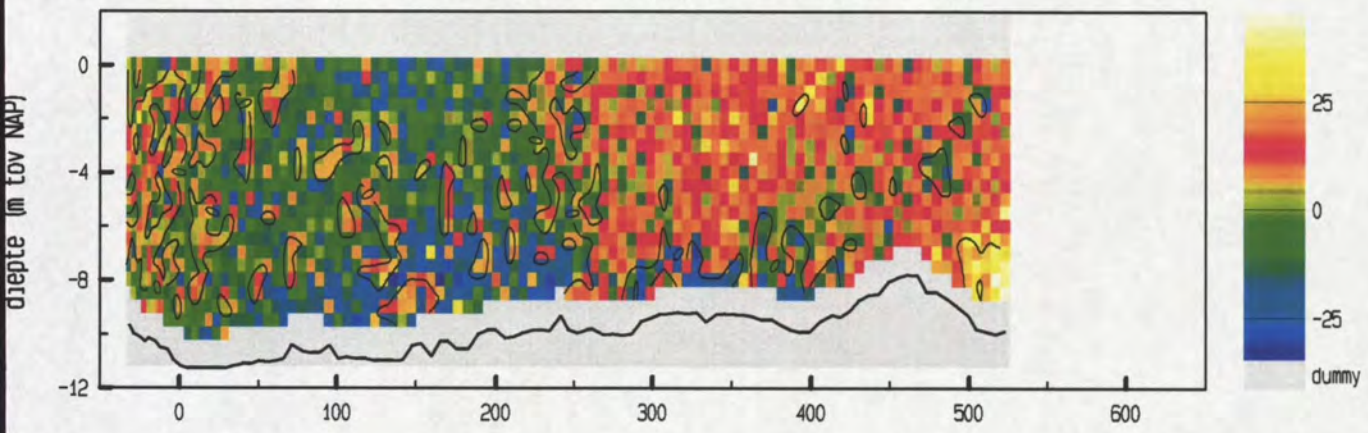
afstand uit nulpunt : 504 m
stroomsnelheid : 20 cm/sec
stroomrichting : 270 °

doorstroomoppervlak : 6715 m²
raaidebiet : 75 m³/sec

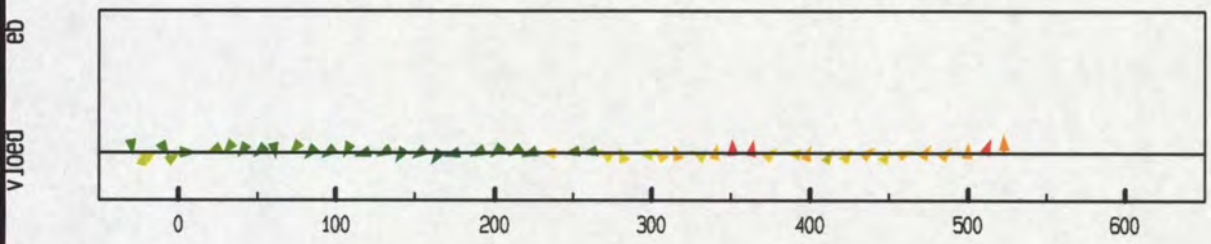
adcpfile : data/gevalid/1826/ln/1826035a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0148 - 0154
adcpfile : data/gevalid/1826/ln/1826041a.val

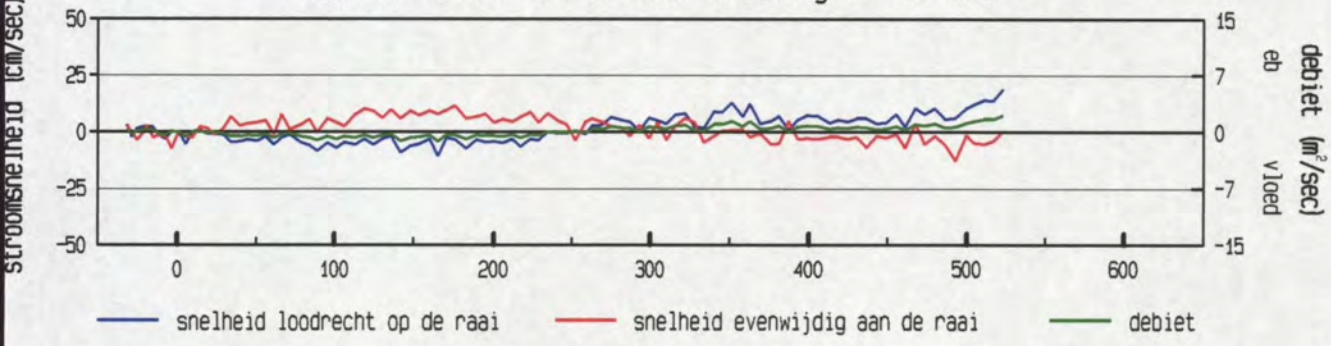
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



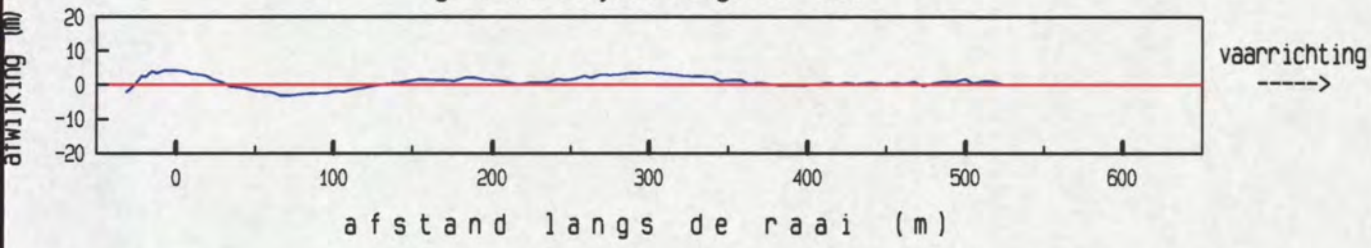
gemiddelde stroomsnelheid in de vertikaal

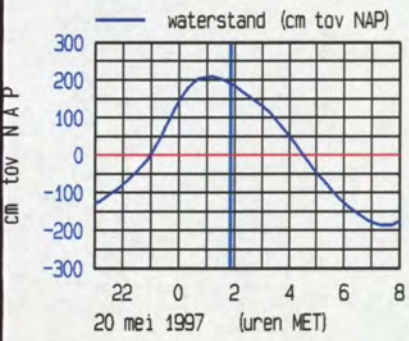


debiet- en stroomsnelheidsverdeling in de raai

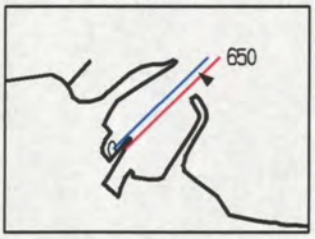


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt : 523 m
stroomsnelheid : 19 cm/sec
stroomrichting : 309 °

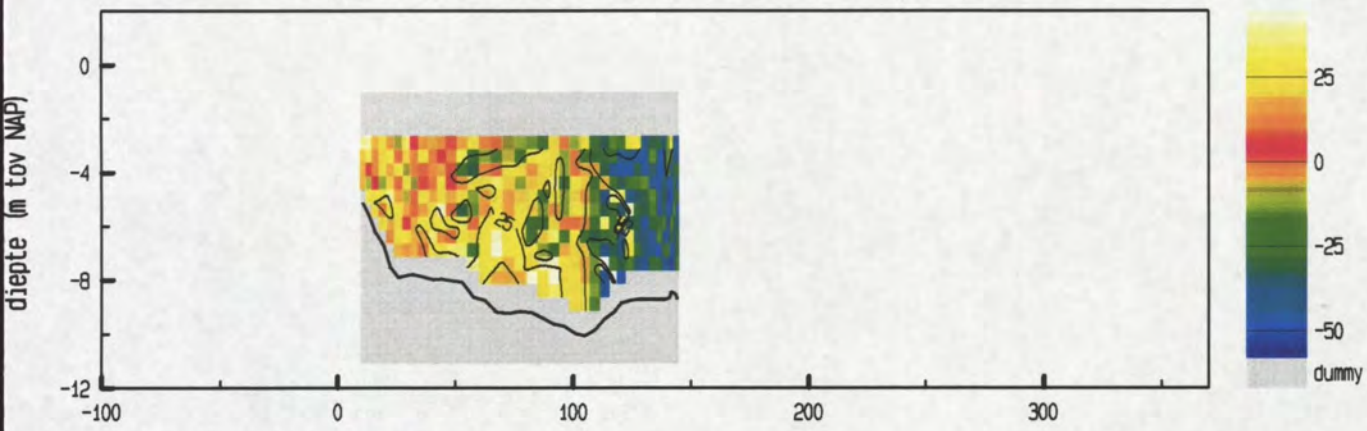
doorstroomoppervlak : 6611 m²
raaidebiet : 78 m³/sec

adcpfile : data/gevalid/1826/ln/1826041a.val

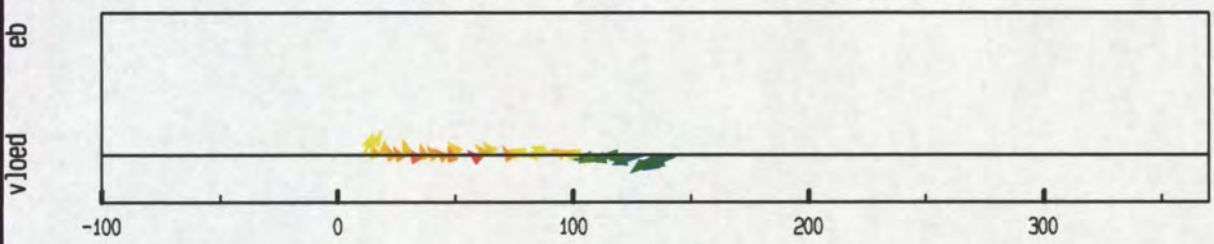
23c. Gemeten gegevens raai-2.

Veerhaven Breskens dd 20 mei 1997 tijd : 2134 - 2137
adcpfile : data/gevalid/1826/dw/1826007a.val

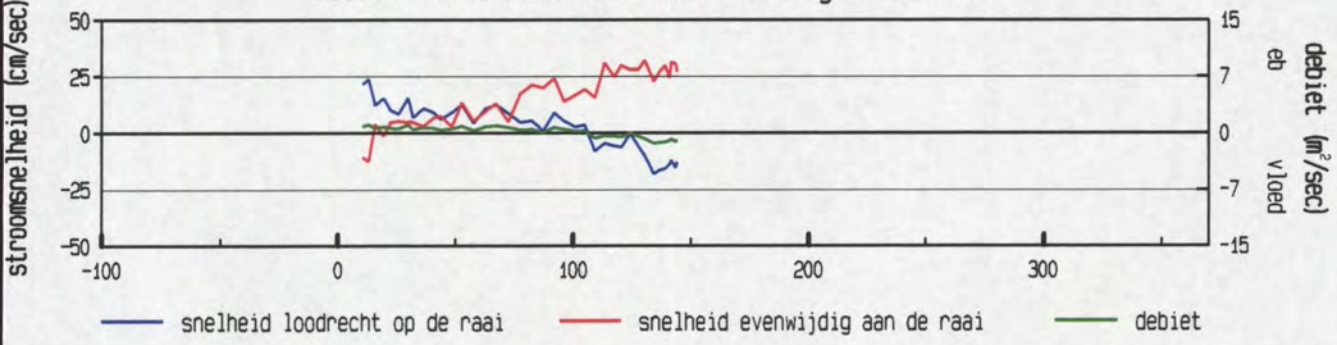
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



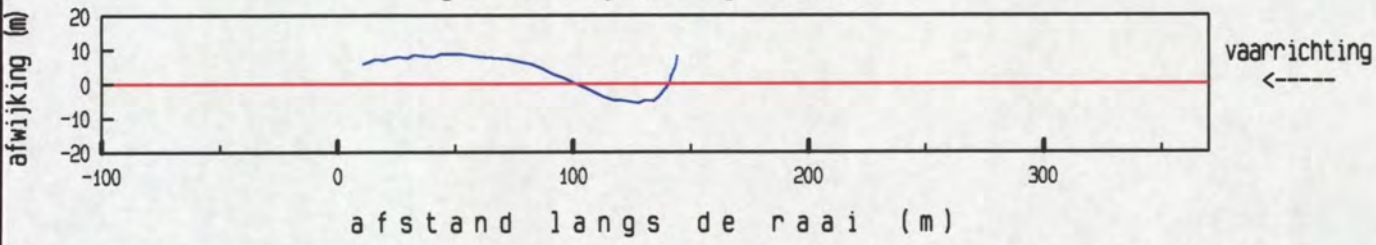
gemiddelde stroomsnelheid in de vertikaal

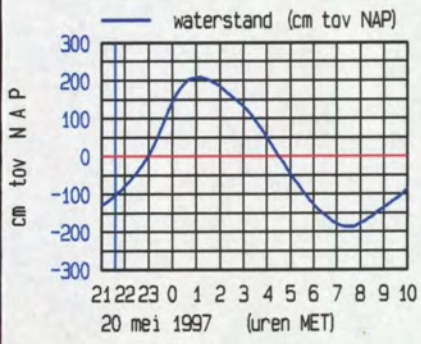


debiet- en stroomsnelheidsverdeling in de raai

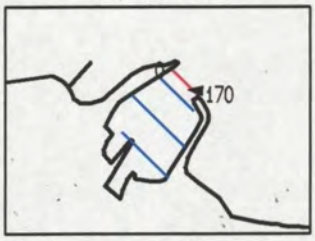


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

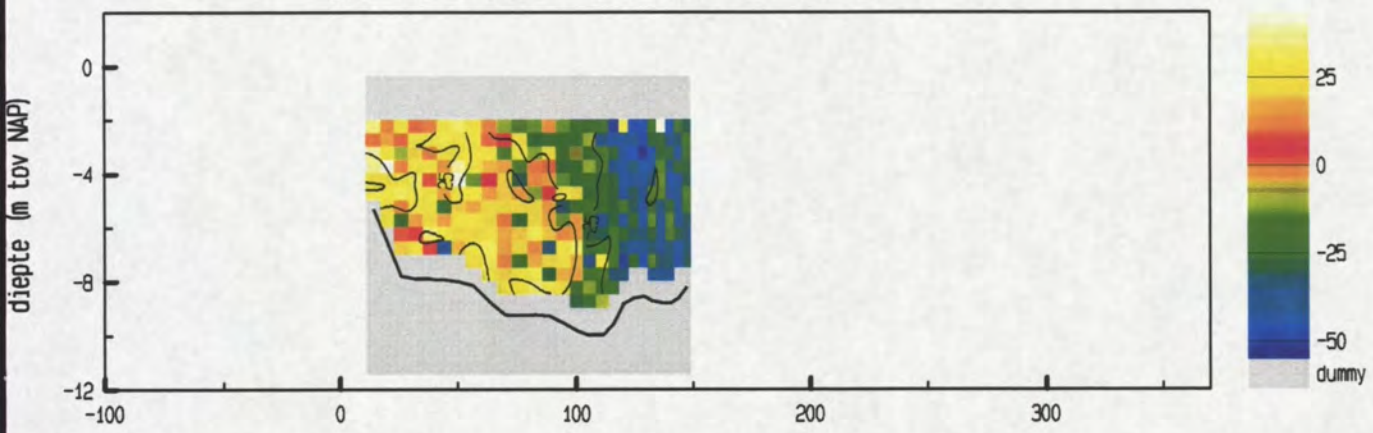
afstand uit nulpunt : 143 m
stroomsnelheid : 34 cm/sec
stroomrichting : 275 °

doorstroomoppervlak : 1024 m²
raaidebiet : 34 m³/sec

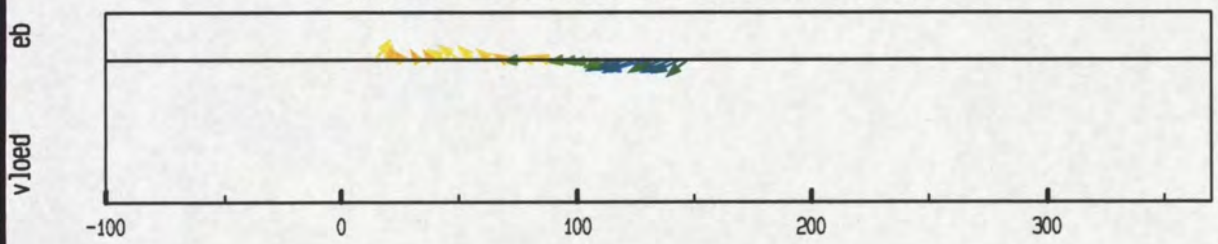
adcpfile : data/gevalid/1826/dw/1826007a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2235 - 2236
adcpfile : data/gevalid/1826/dw/1826013a.val

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

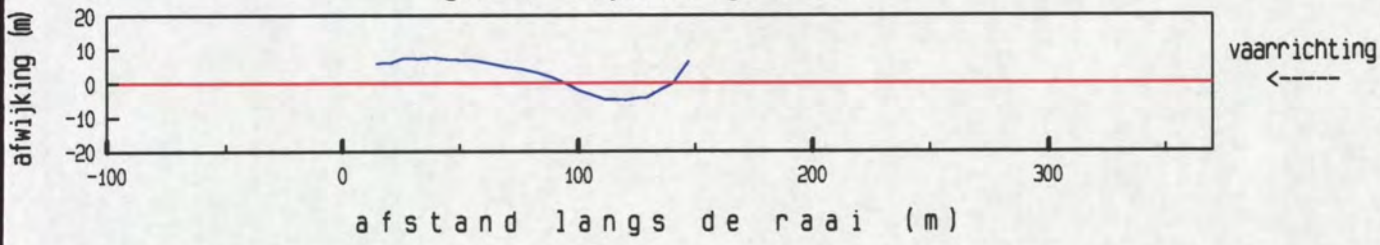


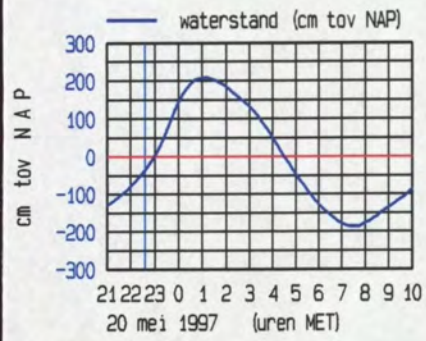
gemiddelde stroomsnelheid in de vertikaal



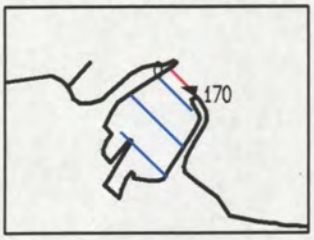
debiet- en stroomsnelheidsverdeling in de raai

gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

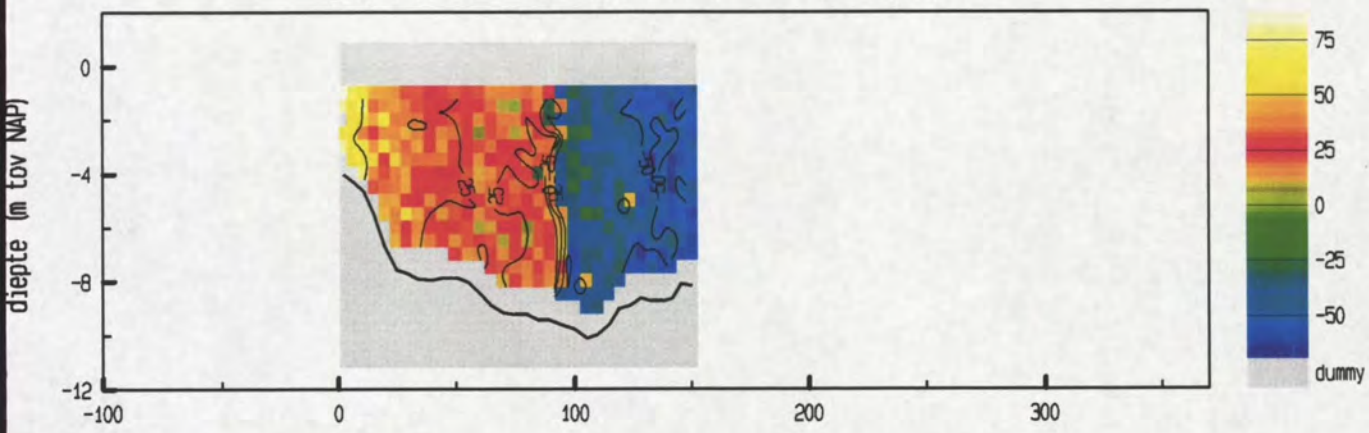
afstand uit nulpunt : 129 m
stroomsnelheid : 41 cm/sec
stroomrichting : 285 °

doorstroomoppervlak : 1131 m²
raaidebiet : 16 m³/sec

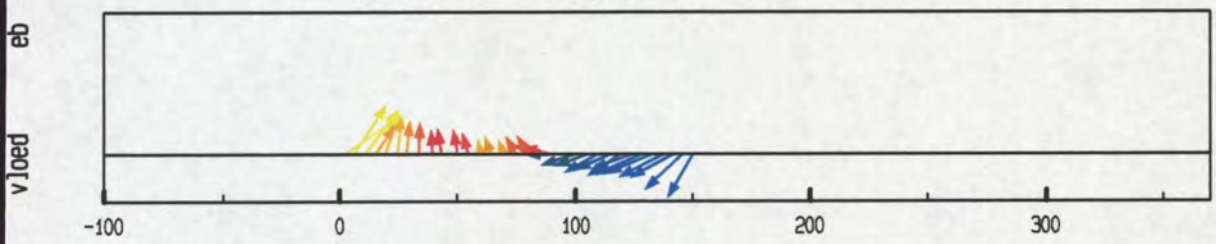
adcpfile : data/gevalid/1826/dw/1826013a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2336 - 2338
adcpfile : data/gevalid/1826/dw/1826019a.val

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

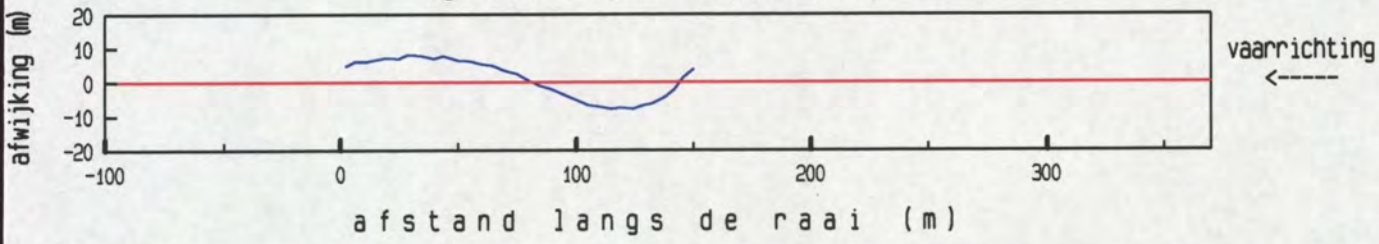


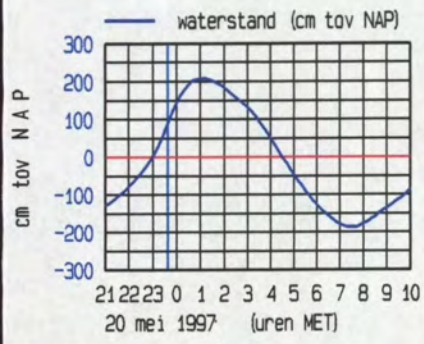
gemiddelde stroomsnelheid in de vertikaal



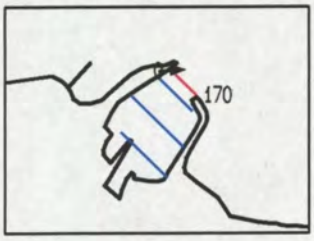
debiet- en stroomsnelheidsverdeling in de raai

gevaren traject langs de raai





meetgebied



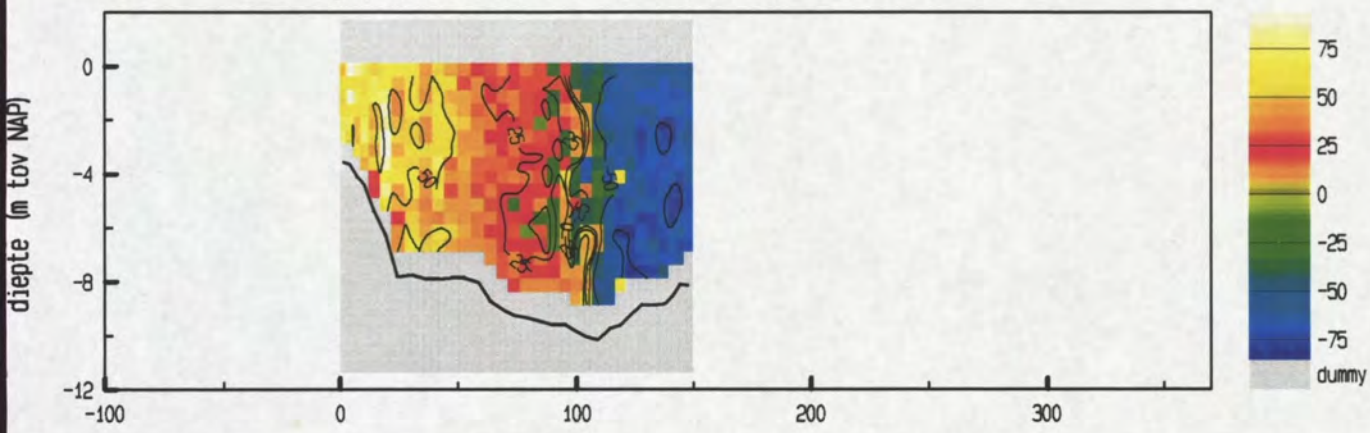
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	2 m
stroomsnelheid	:	71 cm/sec
stroomrichting	:	86 °
doorstroomoppervlak	:	1390 m²
raaidebiet	:	75 m³/sec

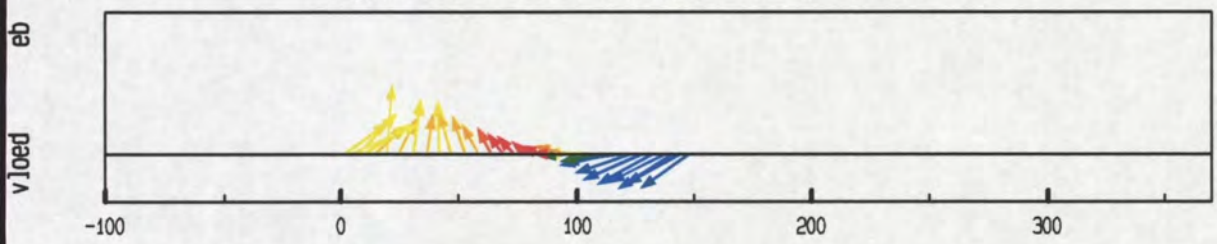
adcpfile : data/gevalid/1826/dw/1826019a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0014 - 0016
adcpfile : data/gevalid/1826/dw/1826025a.val

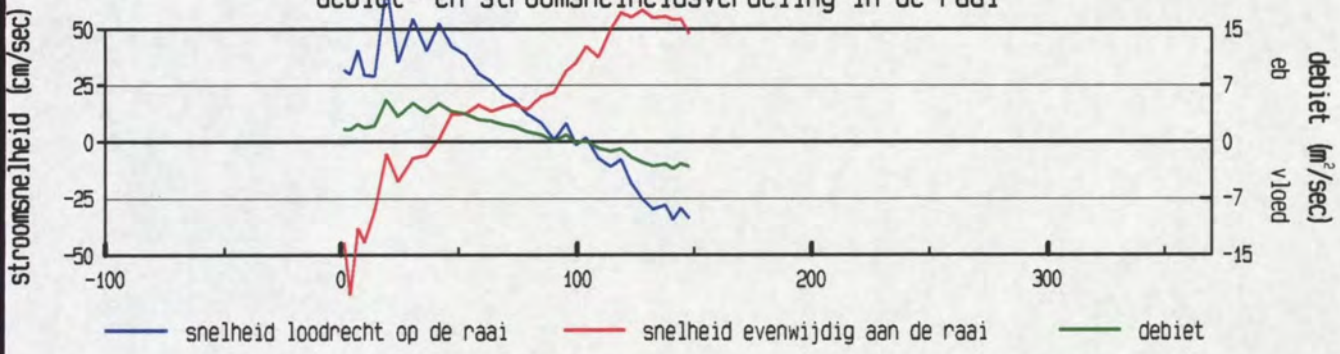
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



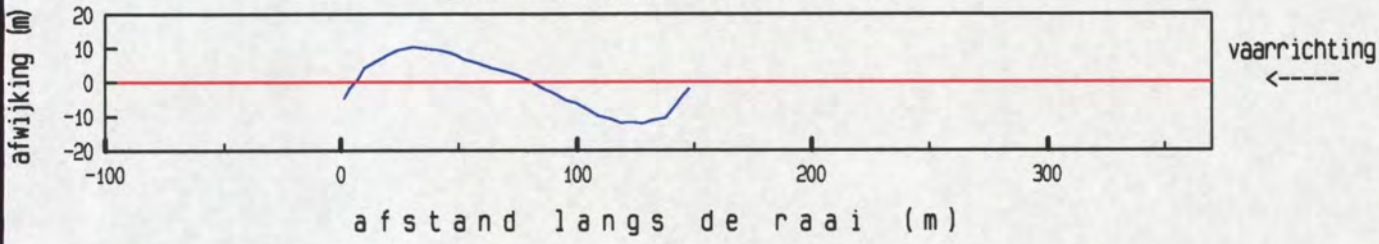
gemiddelde stroomsnelheid in de vertikaal

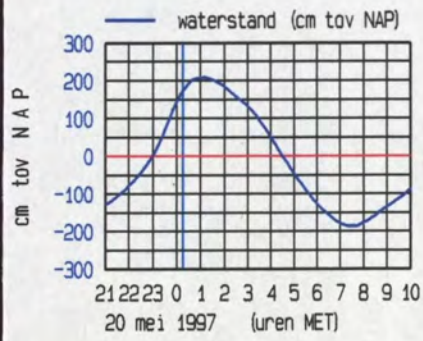


debiet- en stroomsnelheidsverdeling in de raai

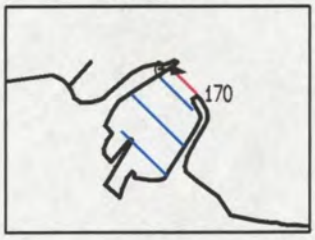


gevaren traject langs de raai





meetgebied



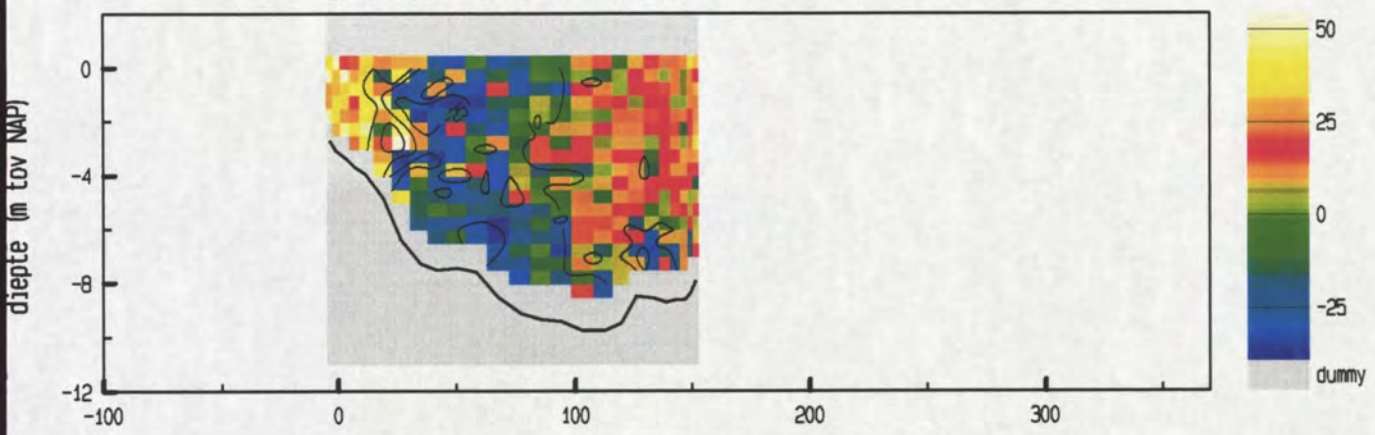
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	4 m
stroomsnelheid	:	74 cm/sec
stroomrichting	:	97 °
doorstroomoppervlak	:	1492 m²
raaidebiet	:	173 m³/sec

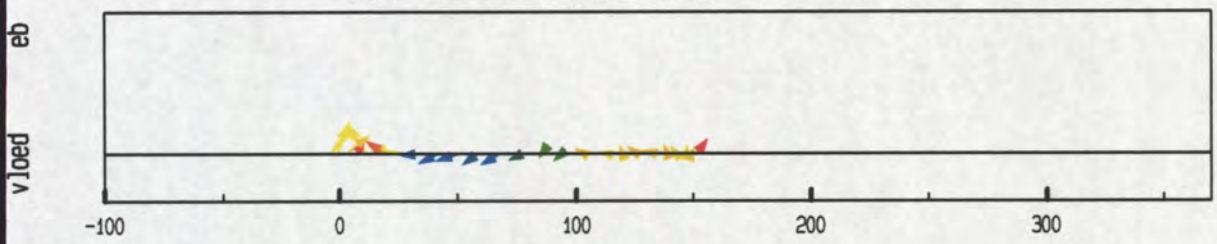
adcpfile : data/gevalid/1826/dw/1826025a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0050 - 0051
adcpfile : data/gevalid/1826/dw/1826031a.val

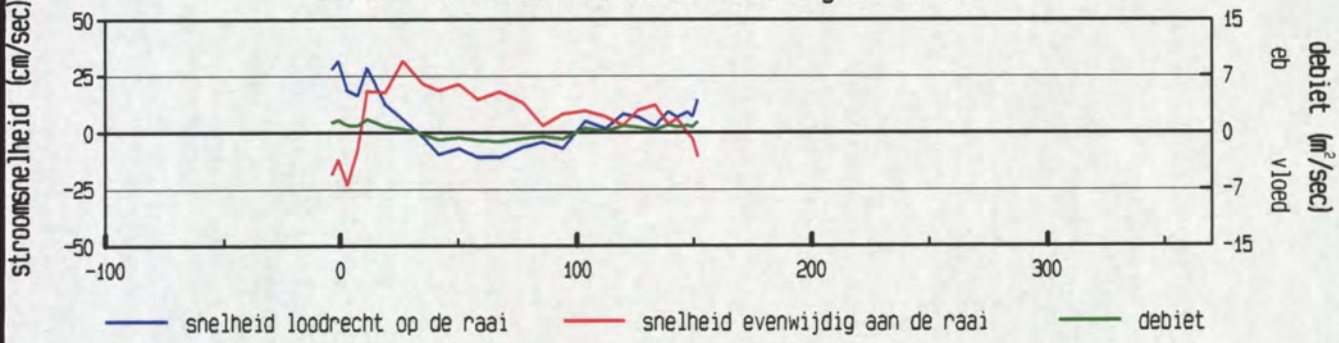
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



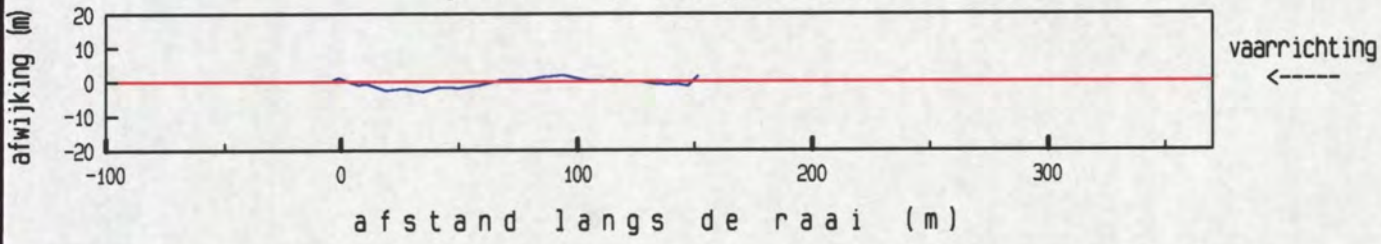
gemiddelde stroomsnelheid in de vertikaal

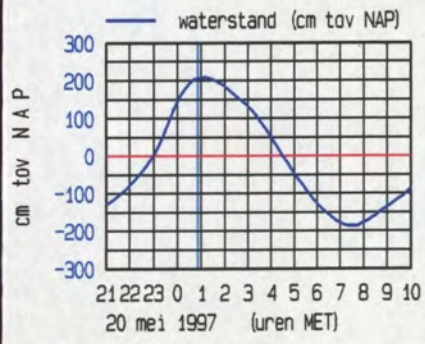


debiet- en stroomsnelheidsverdeling in de raai

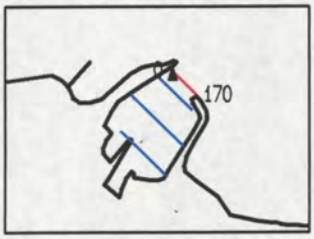


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

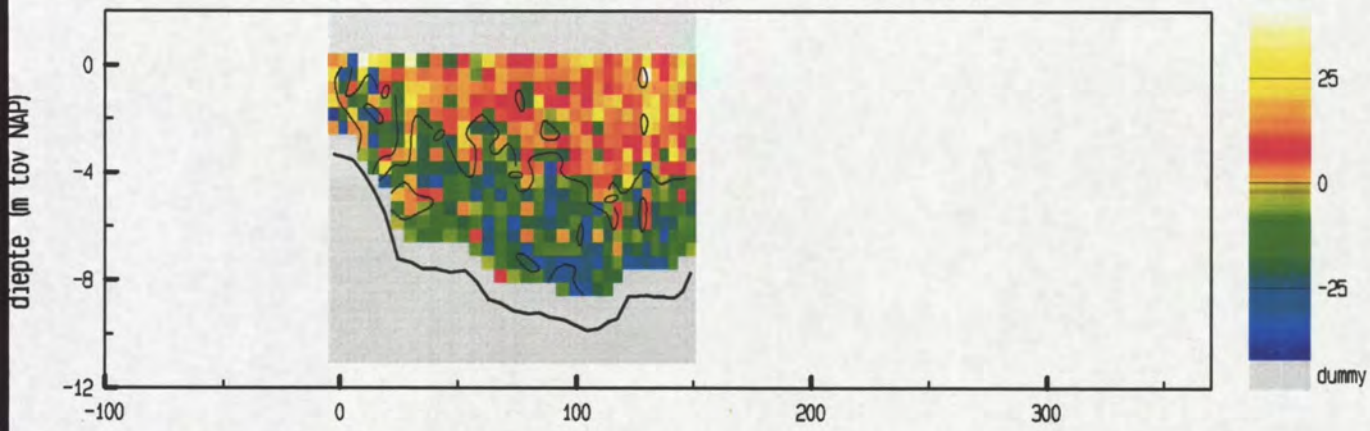
afstand uit nulpunt : 11 m
stroomsnelheid : 34 cm/sec
stroomrichting : 359 °

doorstroomoppervlak : 1538 m²
raaidebiet : 21 m³/sec

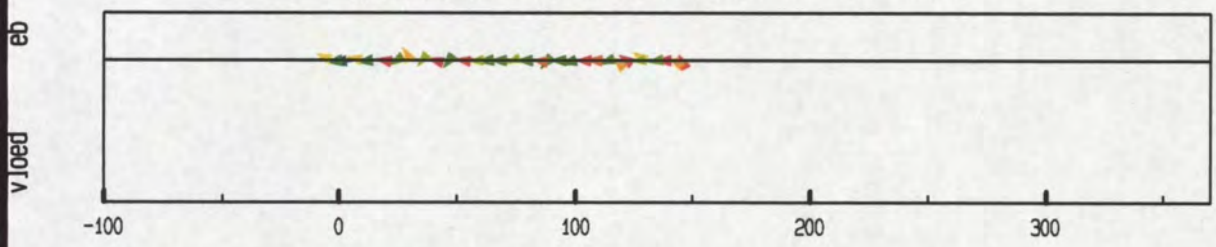
adcpfile : data/gevalid/1826/dw/1826031a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0128 - 0130
adcpfile : data/gevalid/1826/dw/1826037a.val

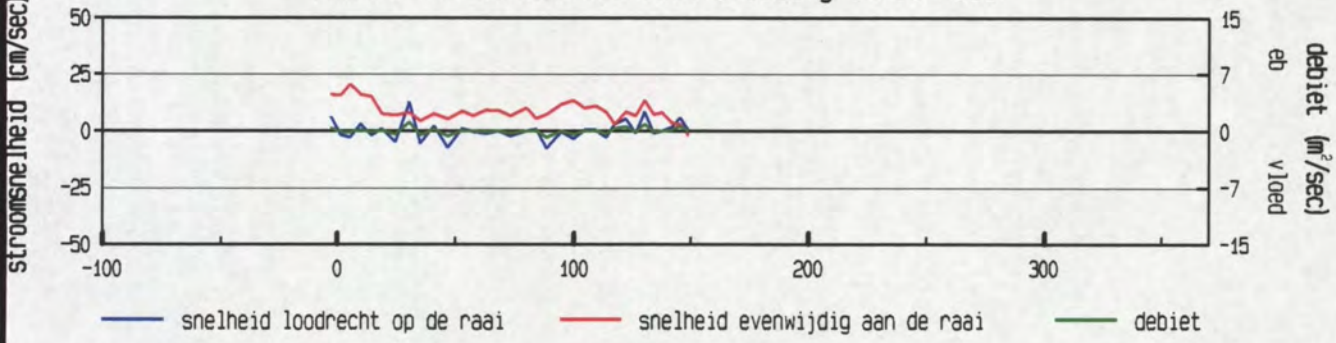
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



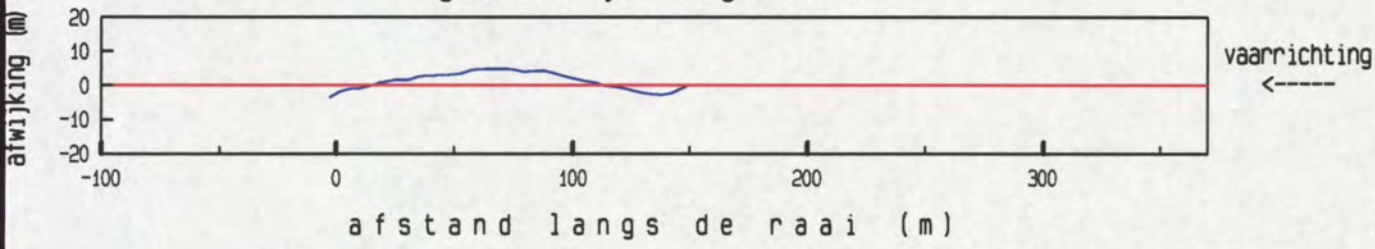
gemiddelde stroomsnelheid in de vertikaal

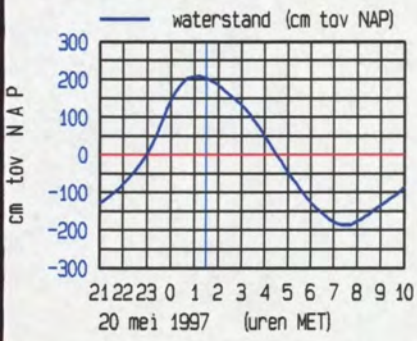


debiet- en stroomsnelheidsverdeling in de raai

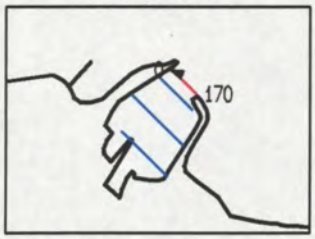


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

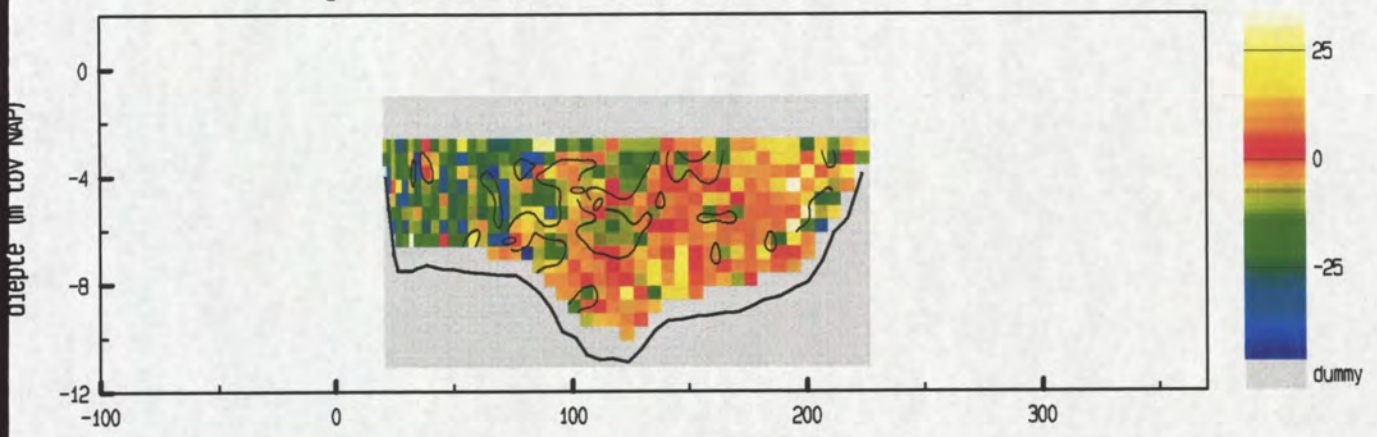
afstand uit nulpunt	:	5 m
stroomsnelheid	:	21 cm/sec
stroomrichting	:	293 °
doorstroomoppervlak	:	1539 m²
raaidebiet	:	0 m³/sec

adcpfile : data/gevalid/1826/dw/1826037a.val

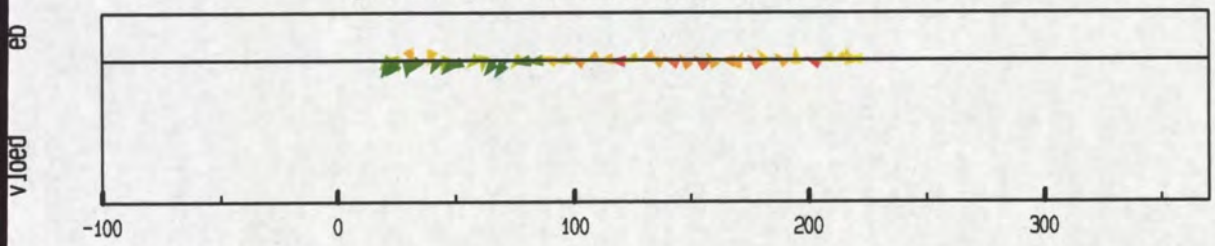
23d. Gemeten gegevens raai-3.

Veerhaven Breskens dd 20 mei 1997 tijd : 2138 - 2141
adcpfile : data/gevalid/1826/dw/1826008a.val

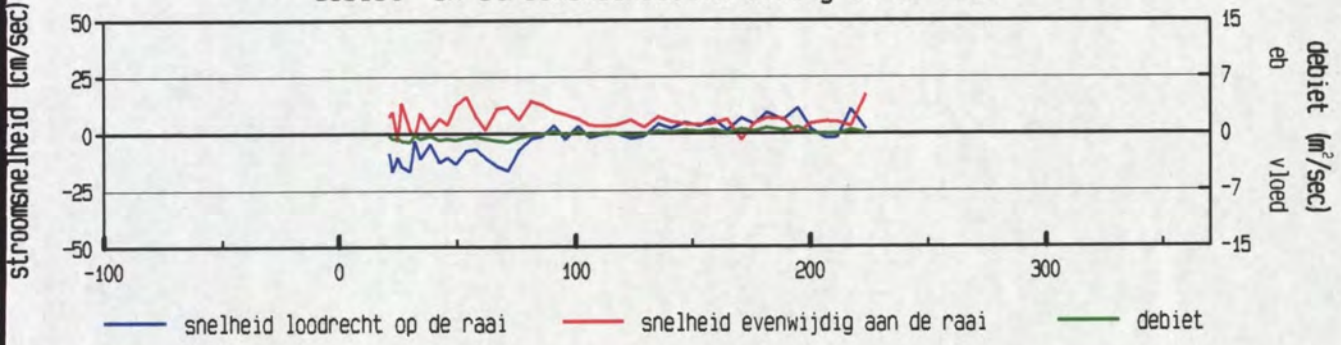
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



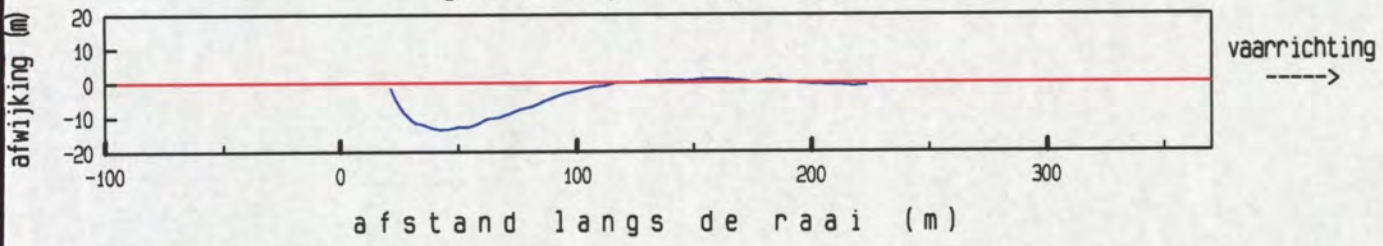
gemiddelde stroomsnelheid in de vertikaal

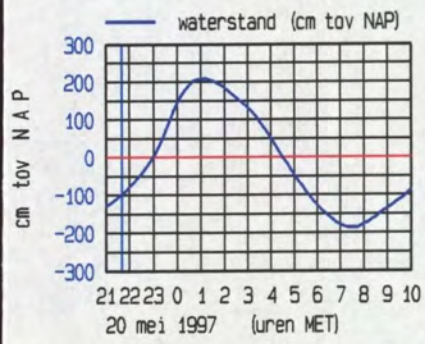


debiet- en stroomsnelheidsverdeling in de raai

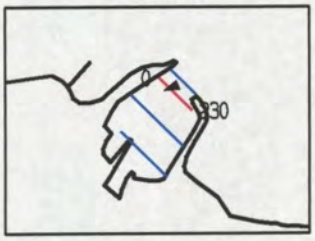


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

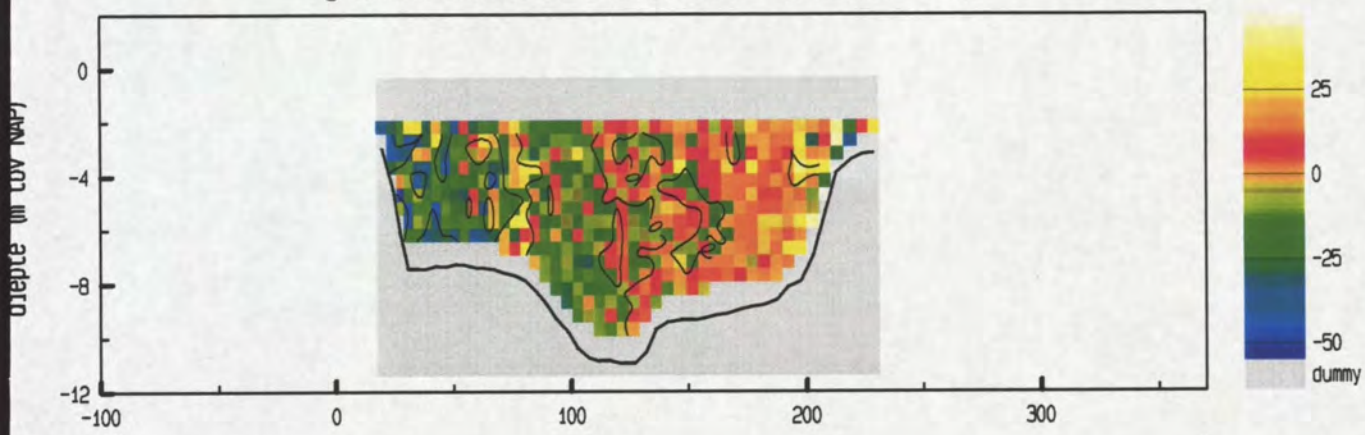
afstand uit nulpunt : 71 m
stroomsnelheid : 20 cm/sec
stroomrichting : 247 °

doorstroomoppervlak : 1524 m²
raaidebiet : -11 m³/sec

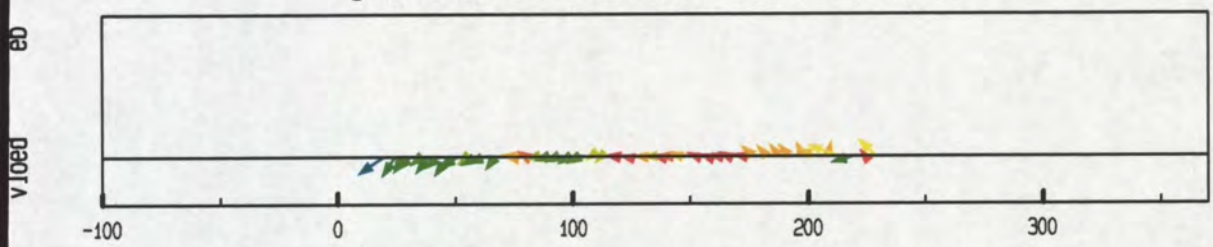
adcpfile : data/gevalid/1826/dw/1826008a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2238 - 2240
adcpfile : data/gevalid/1826/dw/1826014a.val

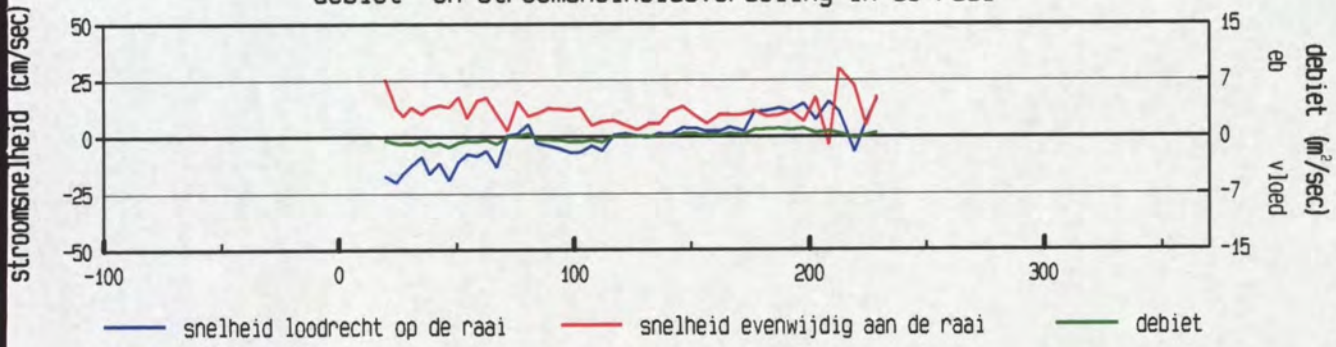
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



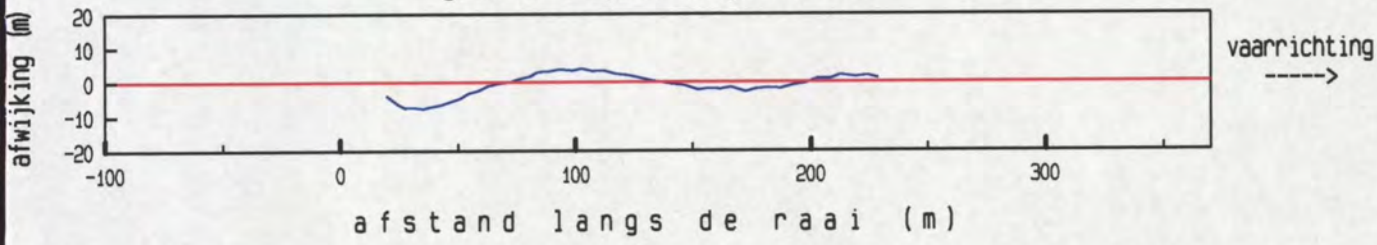
gemiddelde stroomsnelheid in de vertikaal

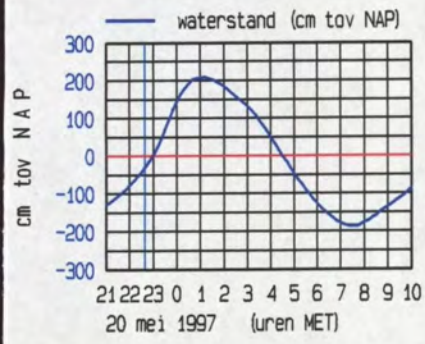


debiet- en stroomsnelheidsverdeling in de raai

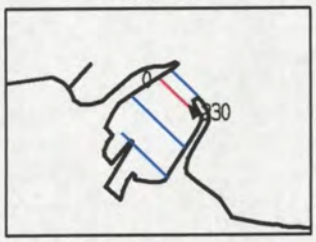


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

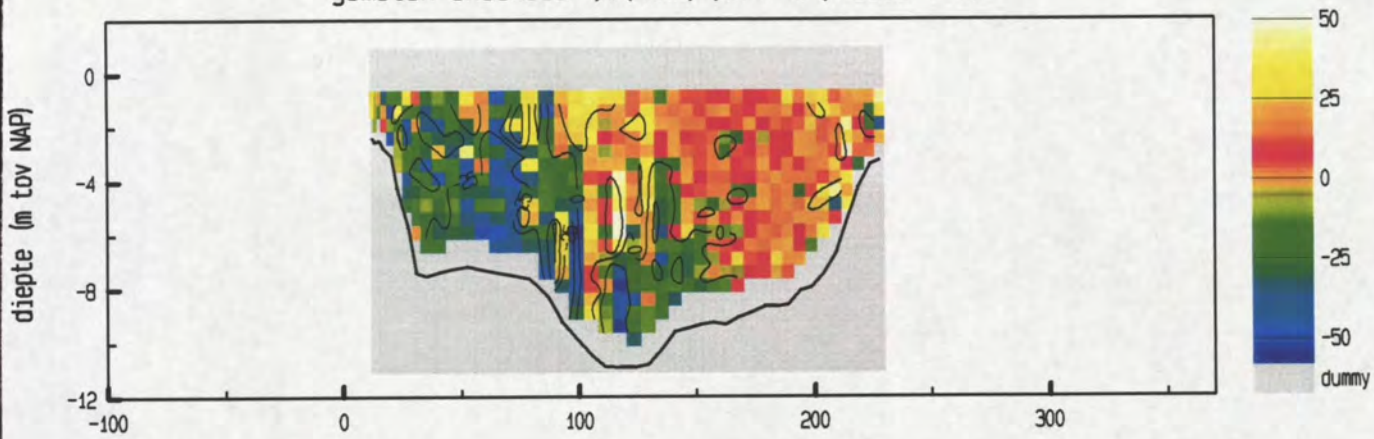
afstand uit nulpunt : 213 m
stroomsnelheid : 32 cm/sec
stroomrichting : 322 °

doorstroomoppervlak : 1633 m²
raaidebiet : -7 m³/sec

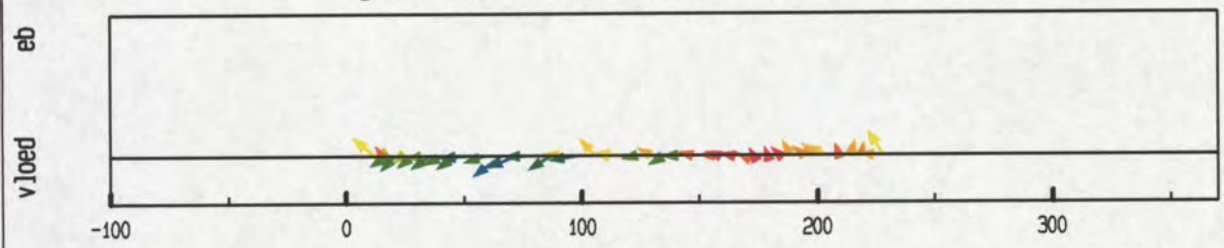
adcpfile : data/gevalid/1826/dw/1826014a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2339 - 2341
adcpfile : data/gevalid/1826/dw/1826020a.val

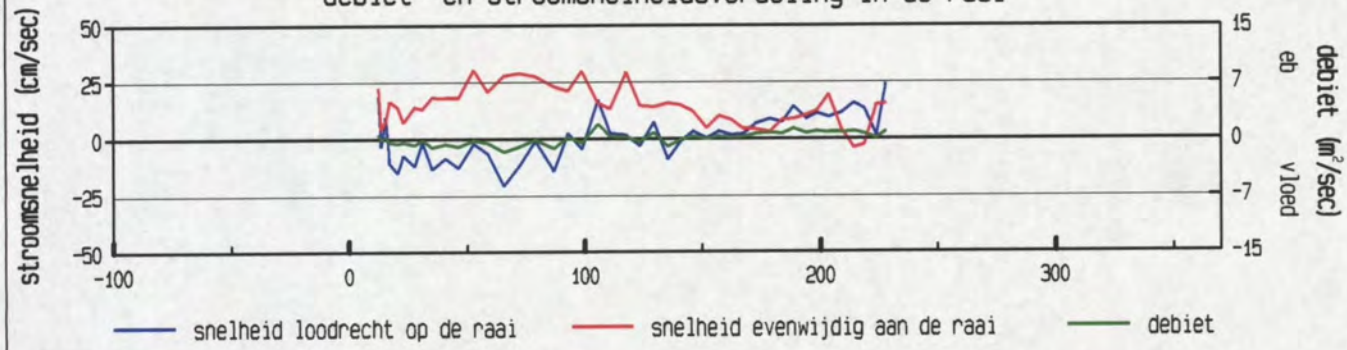
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



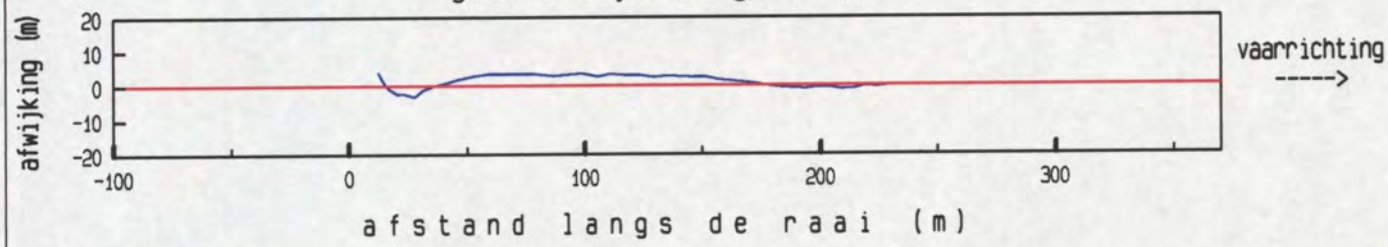
gemiddelde stroomsnelheid in de vertikaal

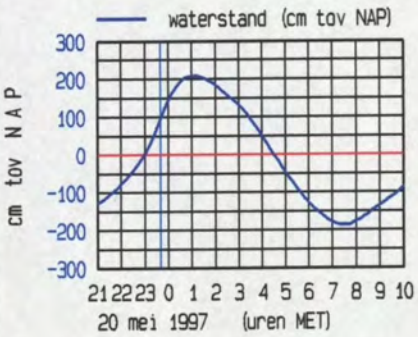


debiet- en stroomsnelheidsverdeling in de raai

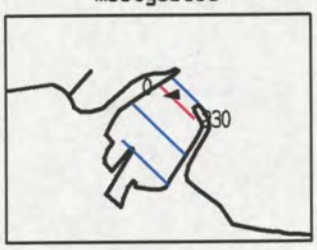


gevaren traject langs de raai





meetgebied



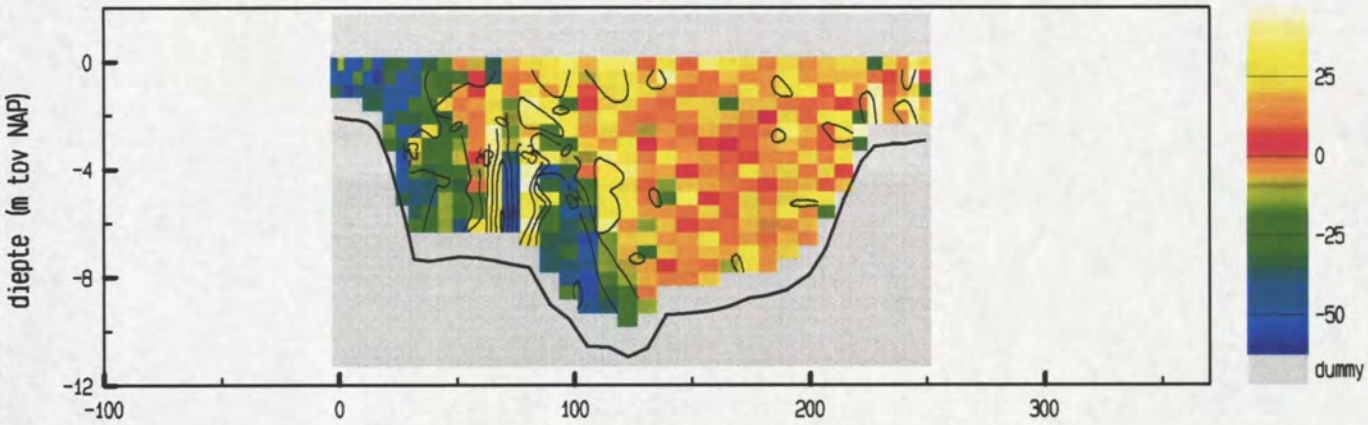
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	65 m
stroomsnelheid	:	35 cm/sec
stroomrichting	:	265 °
doorstroomoppervlak	:	1946 m²
raaidebiet	:	10 m³/sec

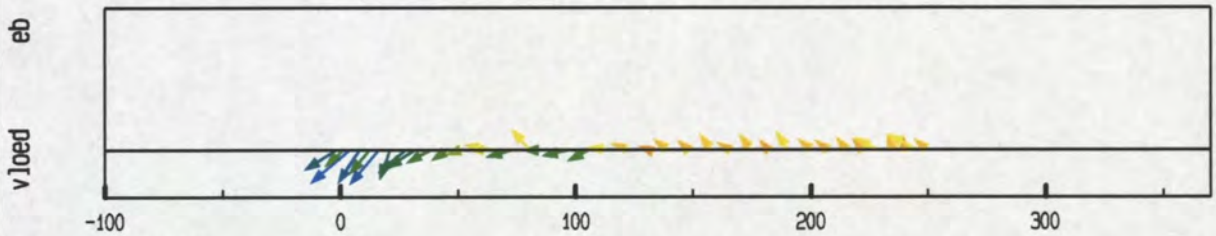
adcpfile : data/gevalid/1826/dw/1826020a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0016 - 0019
adcpfile : data/gevalid/1826/dw/1826026a.val

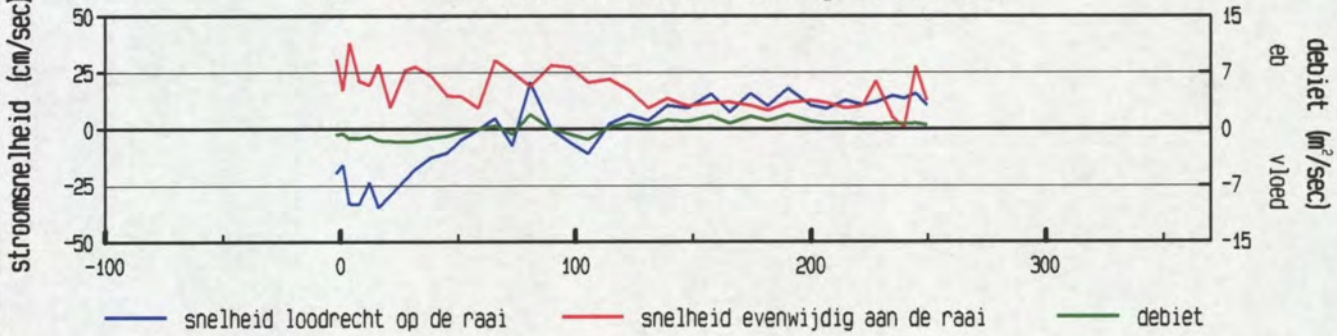
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



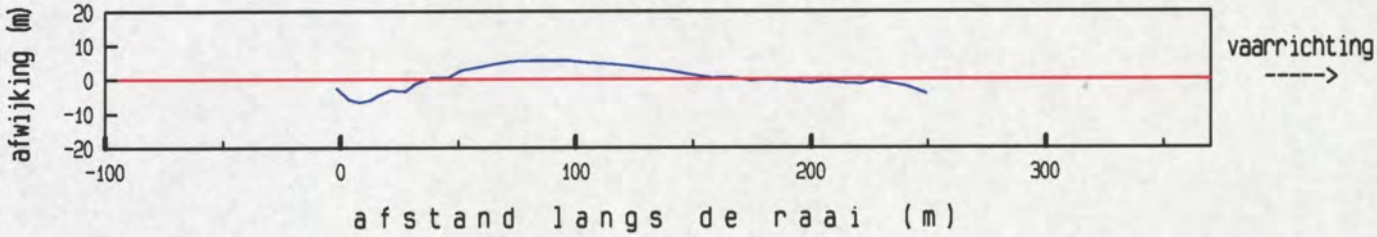
gemiddelde stroomsnelheid in de vertikaal

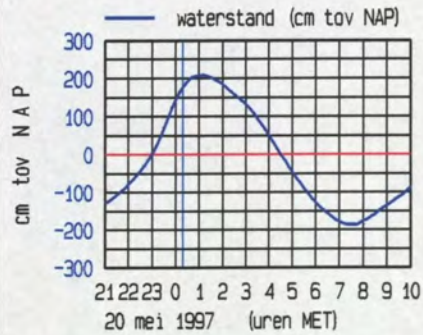


debiet- en stroomsnelheidsverdeling in de raai

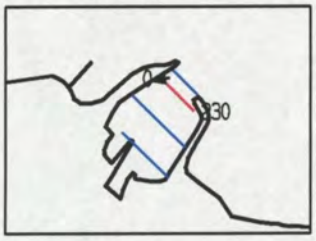


gevaren traject langs de raai





meetgebied



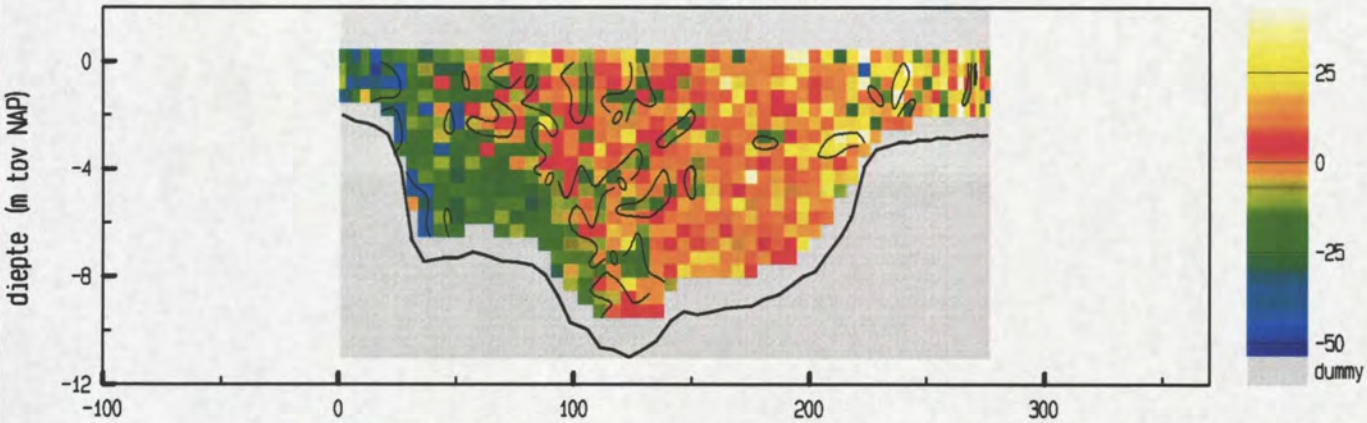
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	4 m
stroomsnelheid	:	50 cm/sec
stroomrichting	:	260 °
doorstroomoppervlak	:	2280 m²
raaidebiet	:	63 m³/sec

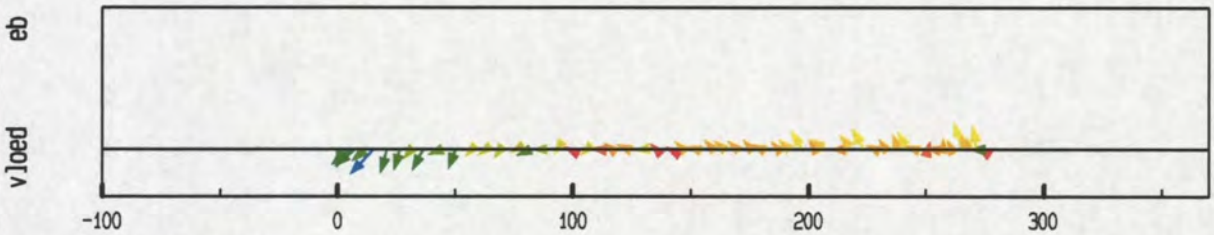
adcpfile : data/gevalid/1826/dw/1826026a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0052 - 0056
adcpfile : data/gevalid/1826/dw/1826032a.val

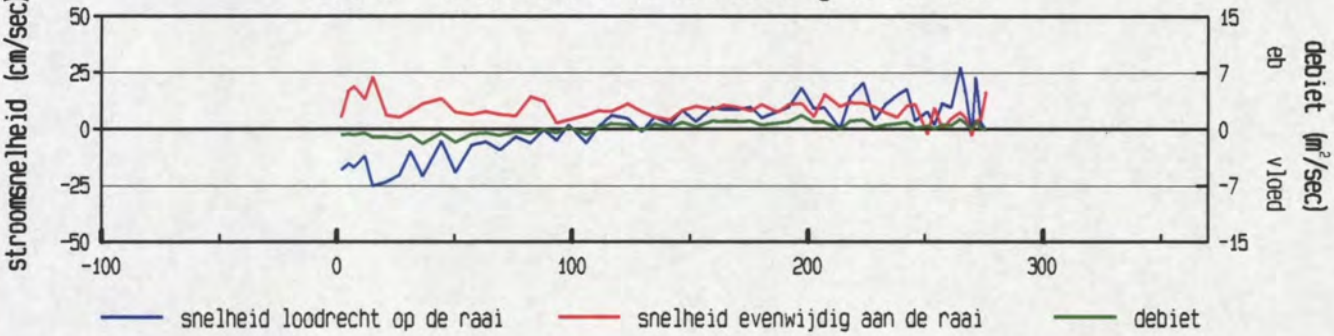
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



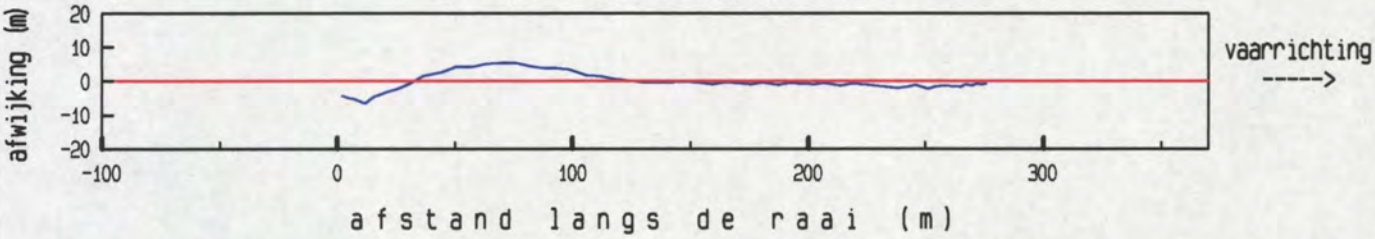
gemiddelde stroomsnelheid in de vertikaal

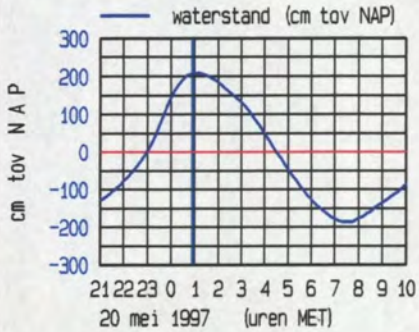


debiet- en stroomsnelheidsverdeling in de raai

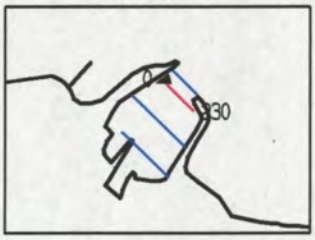


gevaren traject langs de raai





meetgebied



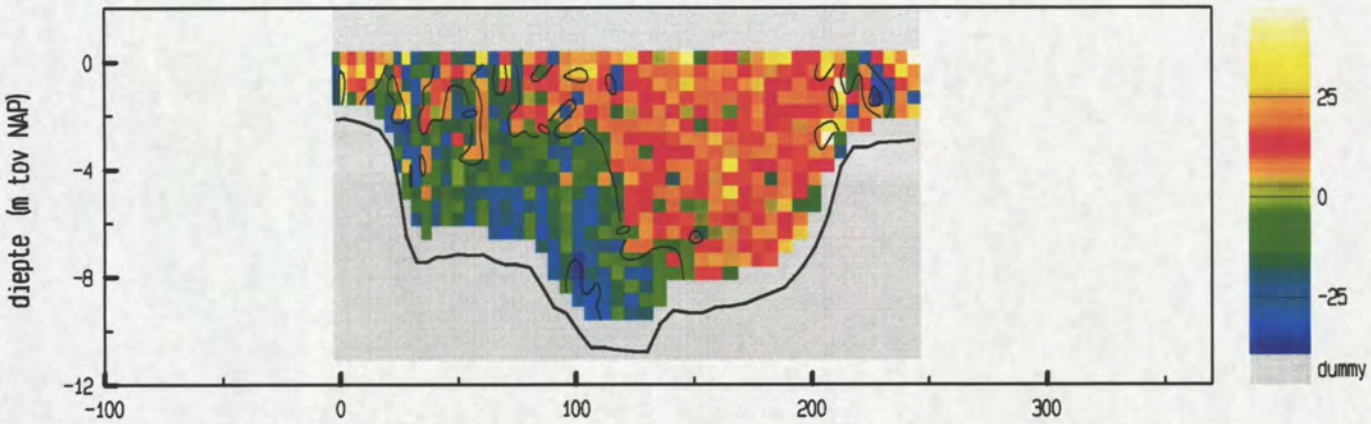
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	15 m
stroomsnelheid	:	34 cm/sec
stroomrichting	:	253 °
doorstroomoppervlak	:	2460 m²
raaidebiet	:	31 m³/sec

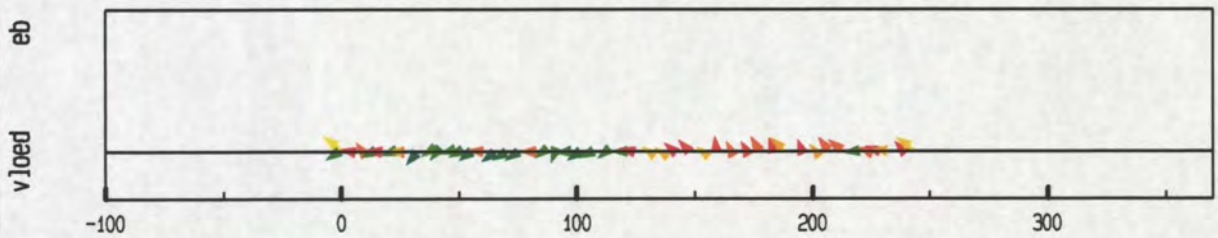
adcpfile : data/gevalid/1826/dw/1826032a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0130 - 0133
adcpfile : data/gevalid/1826/dw/1826038a.val

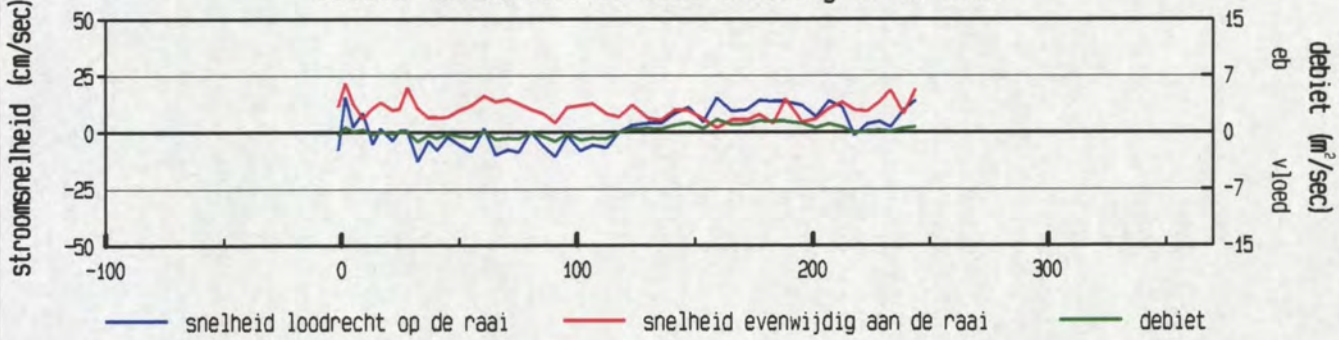
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



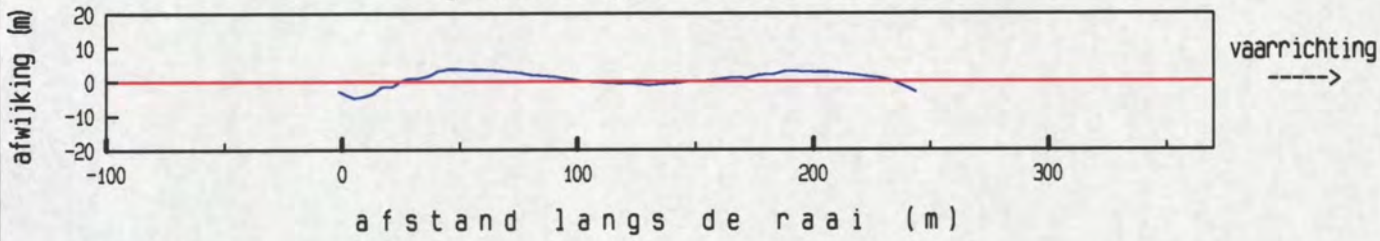
gemiddelde stroomsnelheid in de vertikaal

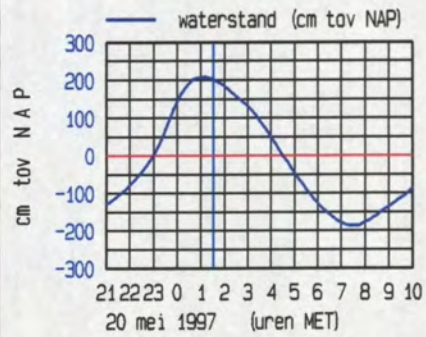


debiet- en stroomsnelheidsverdeling in de raai

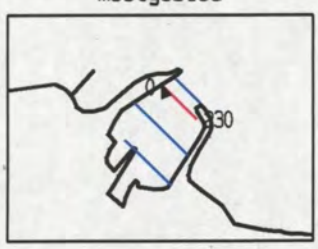


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

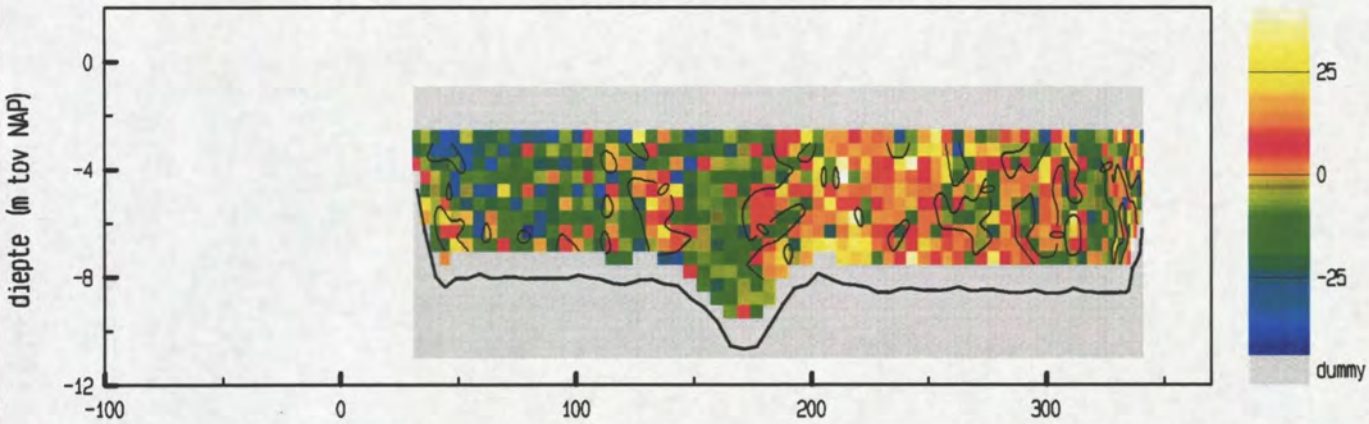
afstand uit nulpunt	:	2 m
stroomsnelheid	:	27 cm/sec
stroomrichting	:	336 °
doorstroomoppervlak	:	2274 m²
raaidebiet	:	50 m³/sec

adcpfile : data/gevalid/1826/dw/1826038a.val

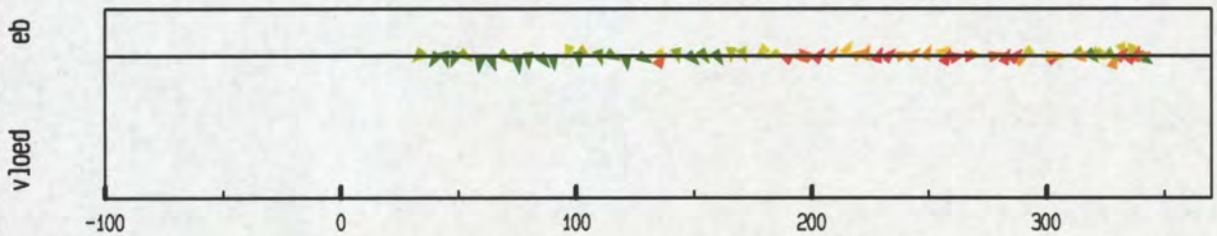
23e. Gemeten gegevens raai-4.

Veerhaven Breskens dd 20 mei 1997 tijd : 2143 - 2147
adcpfile : data/gevalid/1826/dw/1826009a.val

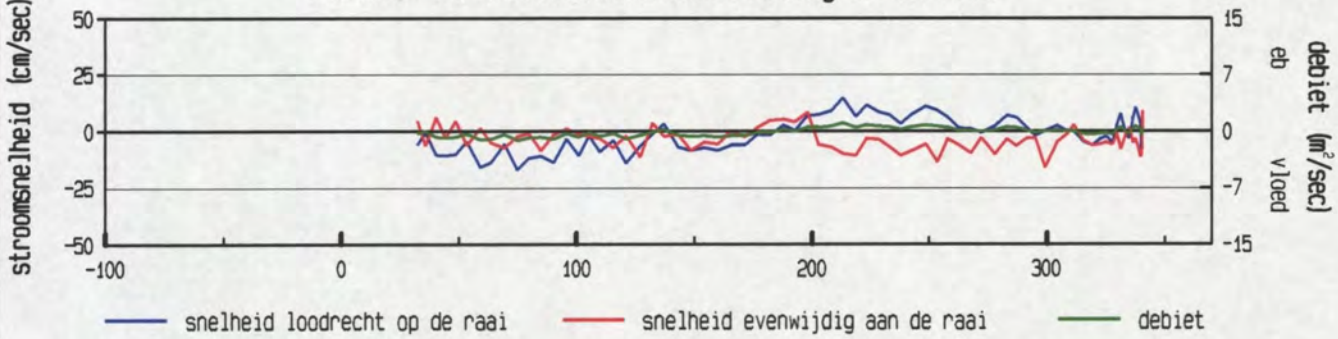
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



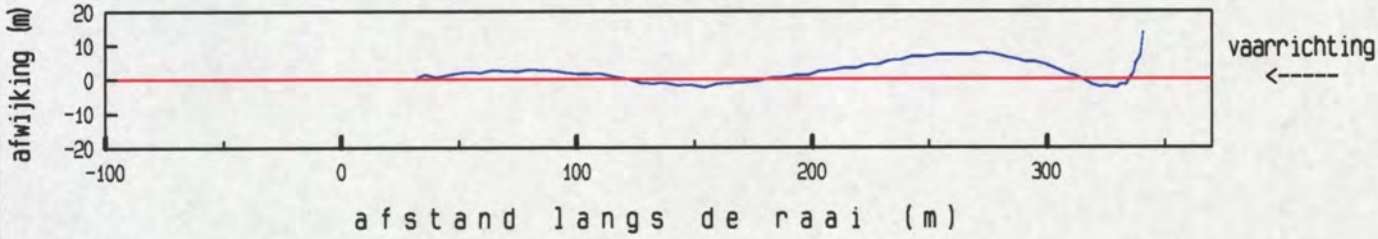
gemiddelde stroomsnelheid in de vertikaal

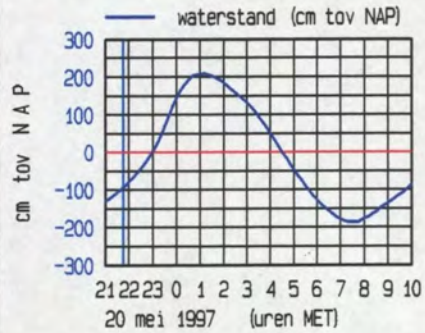


debiet- en stroomsnelheidsverdeling in de raai

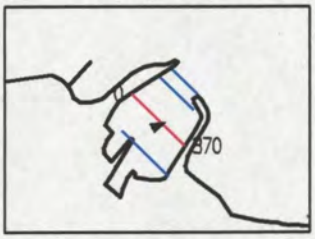


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

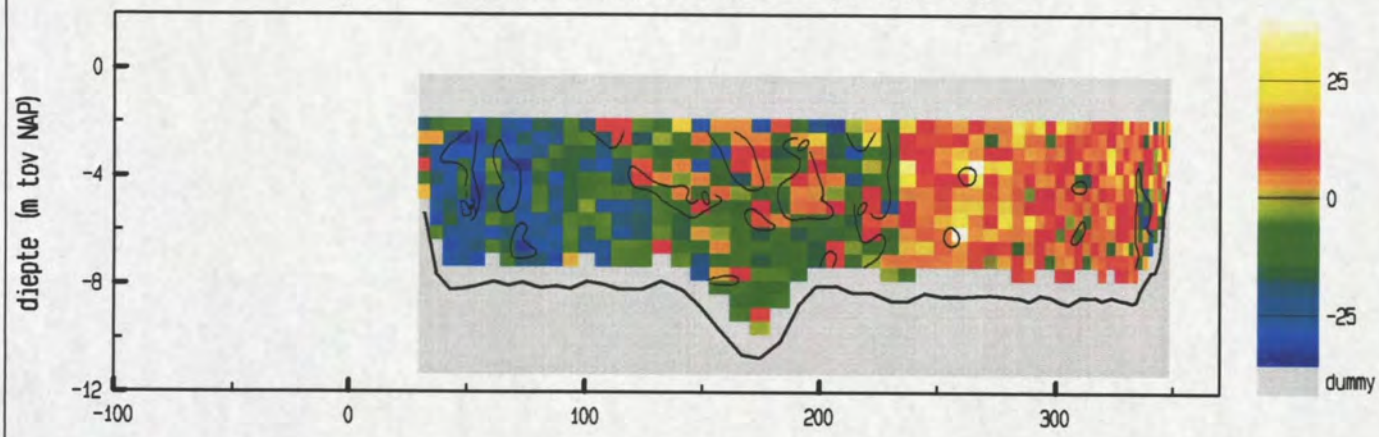
afstand uit nulpunt : 213 m
stroomsnelheid : 18 cm/sec
stroomrichting : 65 °

doorstroomoppervlak : 2332 m²
raaidebiet : -39 m³/sec

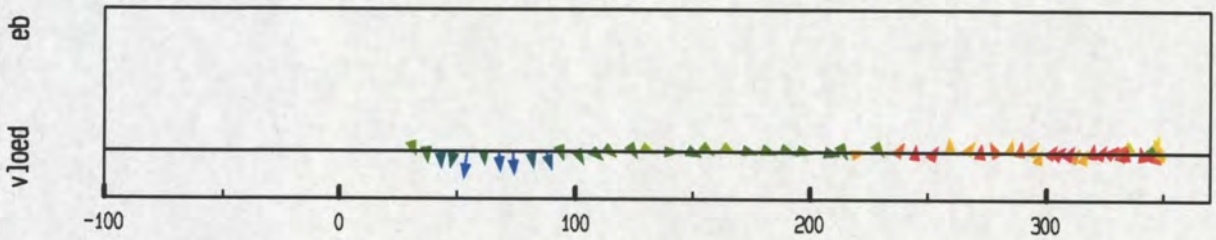
adcpfile : data/gevalid/1826/dw/1826009a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2242 - 2246
adcpfile : data/gevalid/1826/dw/1826015a.val

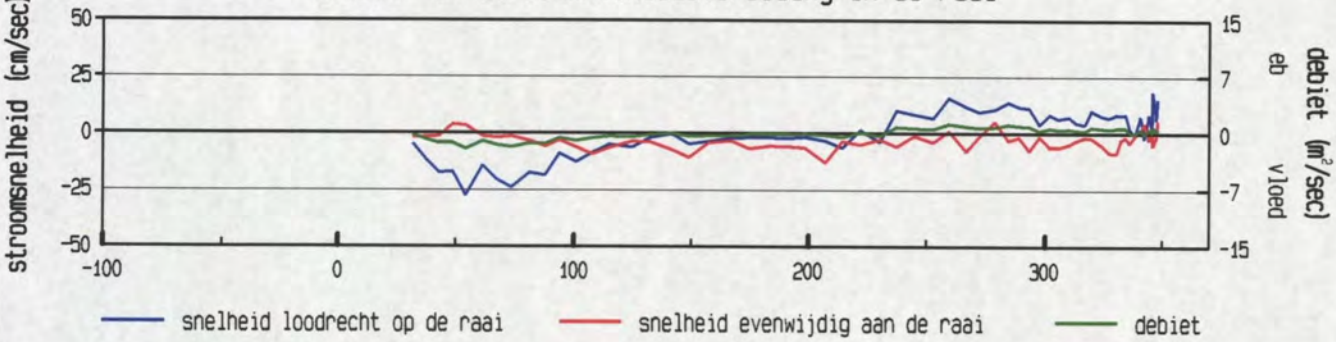
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



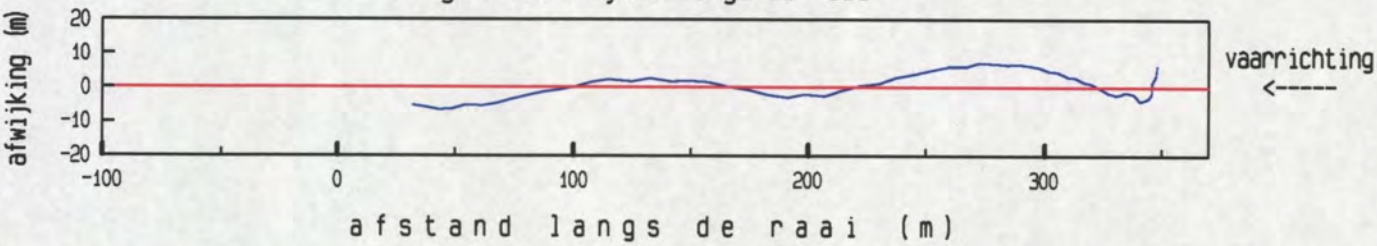
gemiddelde stroomsnelheid in de vertikaal

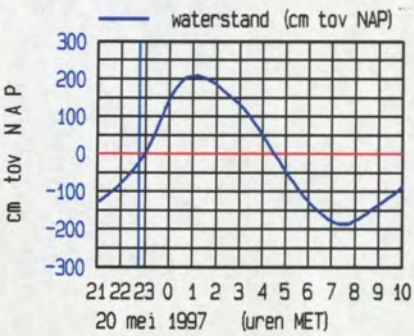


debiet- en stroomsnelheidsverdeling in de raai

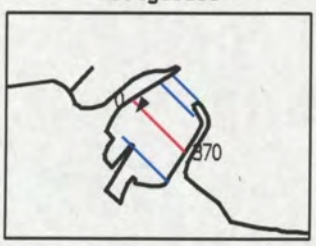


gevaren traject langs de raai





meetgebied



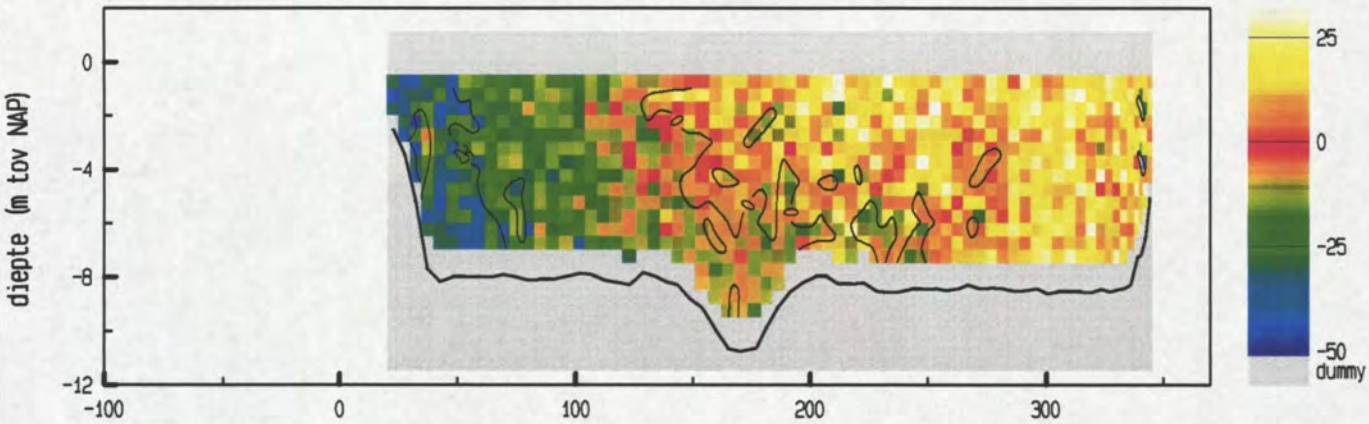
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	54 m
stroomsnelheid	:	28 cm/sec
stroomrichting	:	218 °
doorstroomoppervlak	:	2606 m²
raaidebiet	:	-49 m³/sec

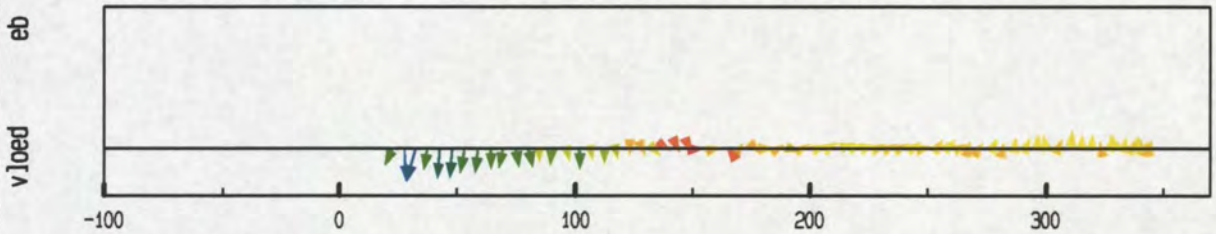
adcpfile : data/gevalid/1826/dw/1826015a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2344 - 2348
adcpfile : data/gevalid/1826/dw/1826021a.val

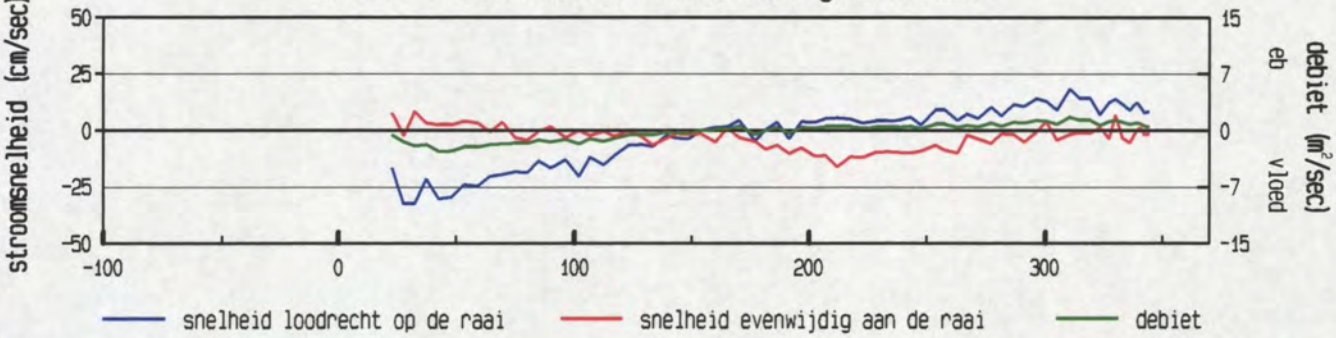
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



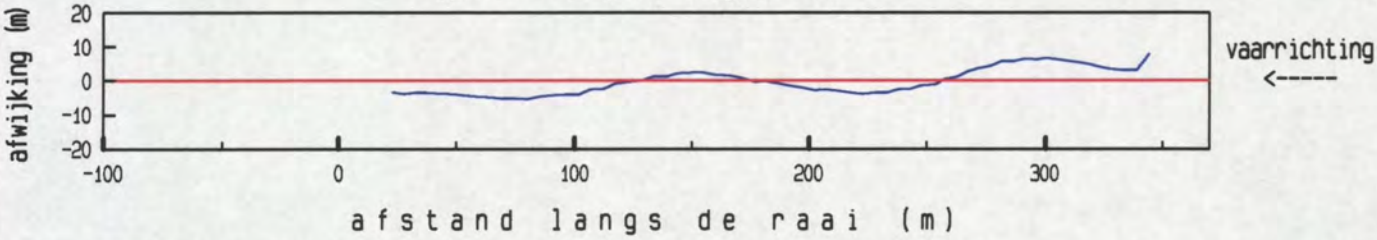
gemiddelde stroomsnelheid in de vertikaal

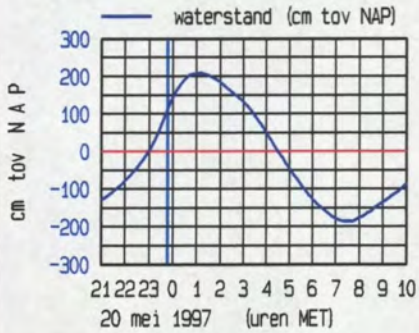


debiet- en stroomsnelheidsverdeling in de raai

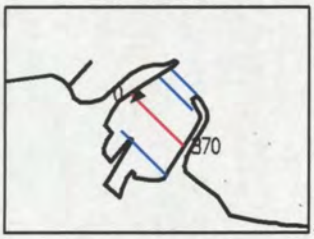


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

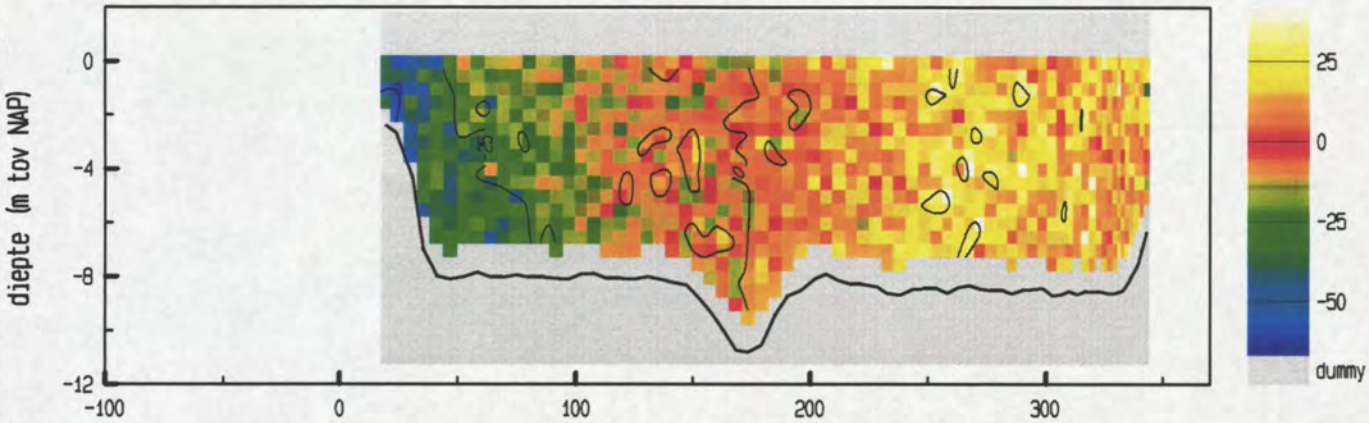
afstand uit nulpunt : 32 m
stroomsnelheid : 33 cm/sec
stroomrichting : 225 °

doorstroomoppervlak : 3041 m²
raaidebiet : -65 m³/sec

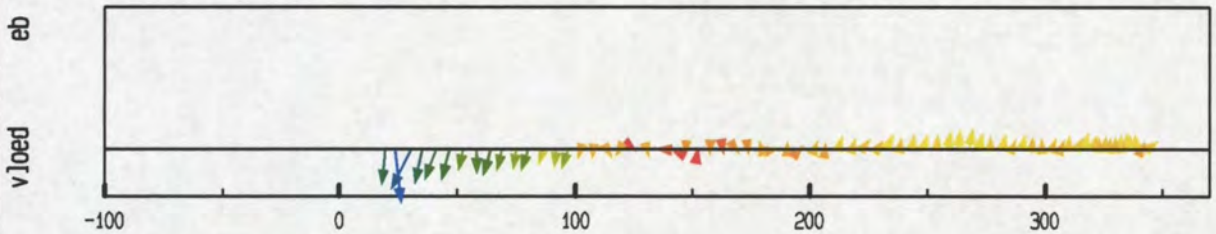
adcpfile : data/gevalid/1826/dw/1826021a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0020 - 0025
adcpfile : data/gevalid/1826/dw/1826027a.val

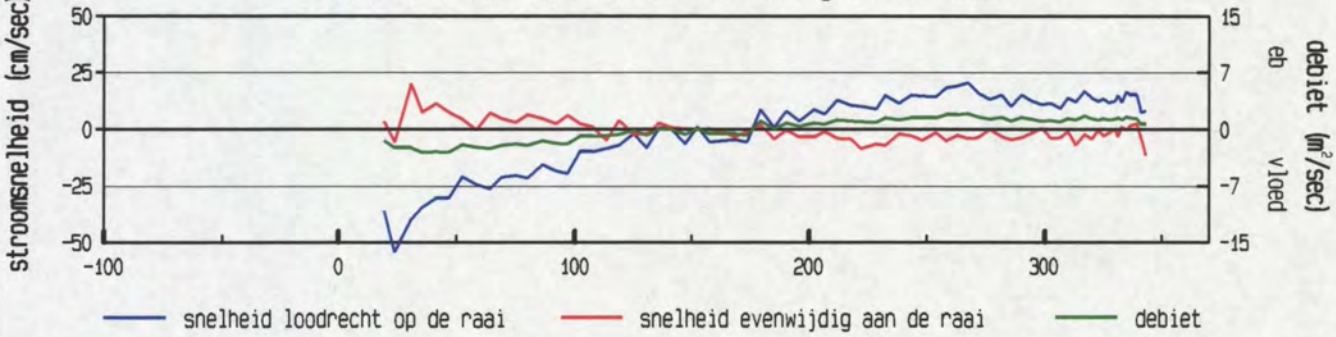
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



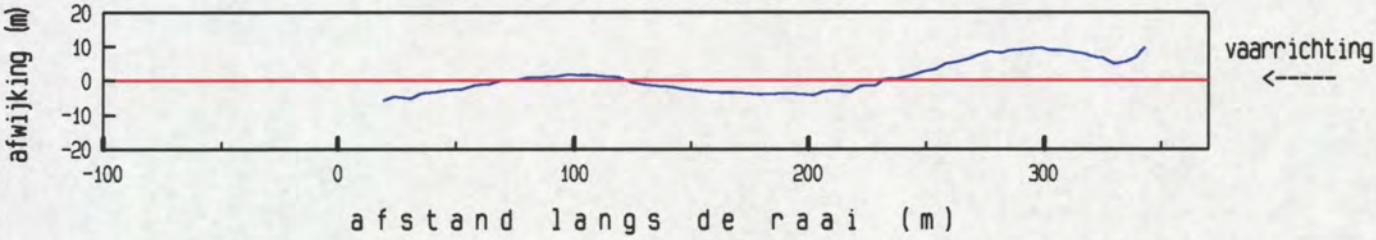
gemiddelde stroomsnelheid in de vertikaal

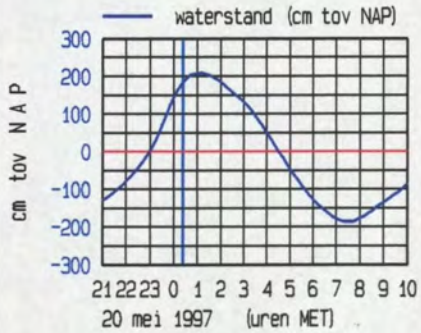


debiet- en stroomsnelheidsverdeling in de raai

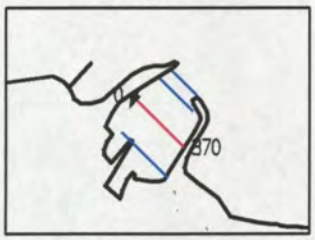


gevaren traject langs de raai





meetgebied



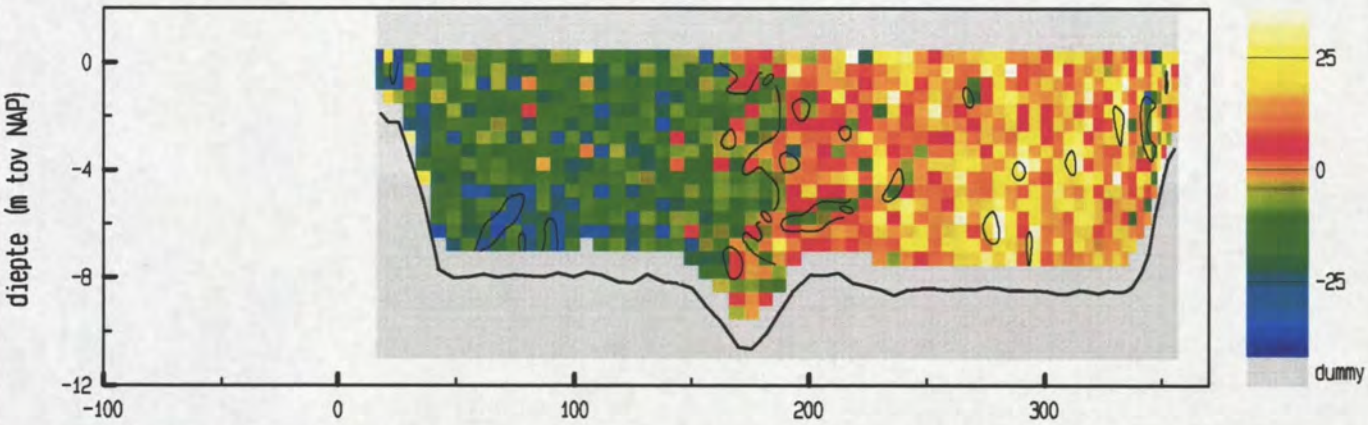
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	24 m
stroomsnelheid	:	54 cm/sec
stroomrichting	:	205 °
doorstroomoppervlak	:	3276 m²
raaidebiet	:	-19 m³/sec

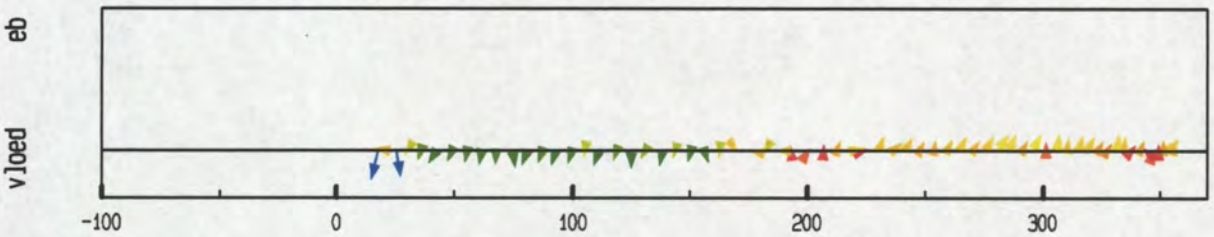
adcpfile : data/gevalid/1826/dw/1826027a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0058 - 0102
adcpfile : data/gevalid/1826/dw/1826033a.val

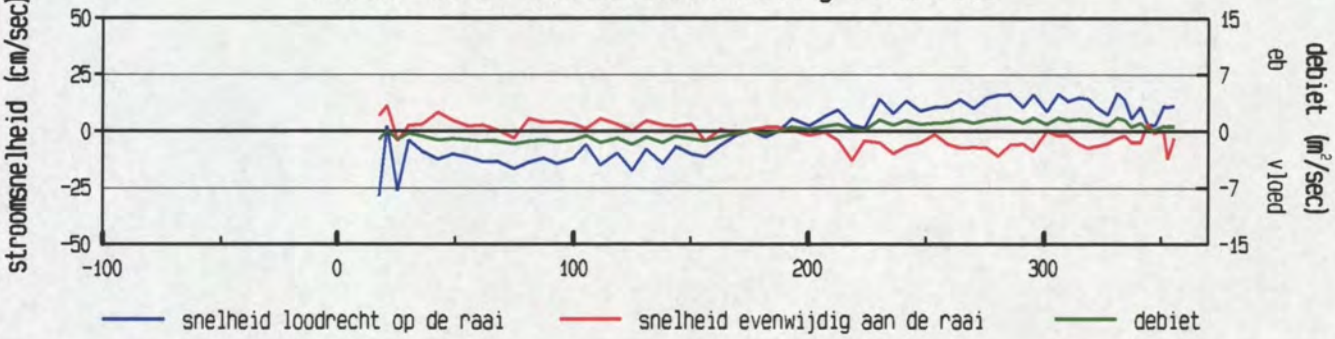
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



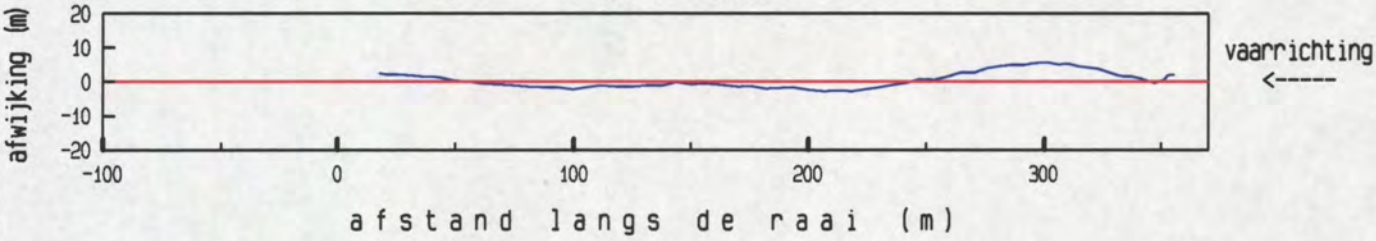
gemiddelde stroomsnelheid in de vertikaal

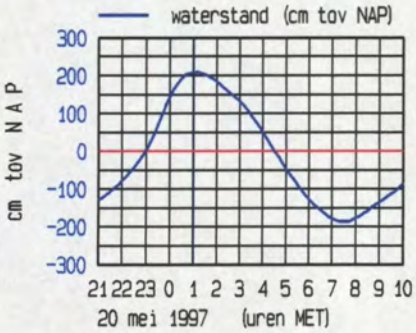


debiet- en stroomsnelheidsverdeling in de raai

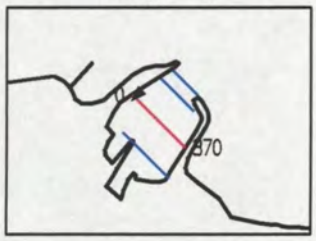


gevaren traject langs de raai





meetgebied



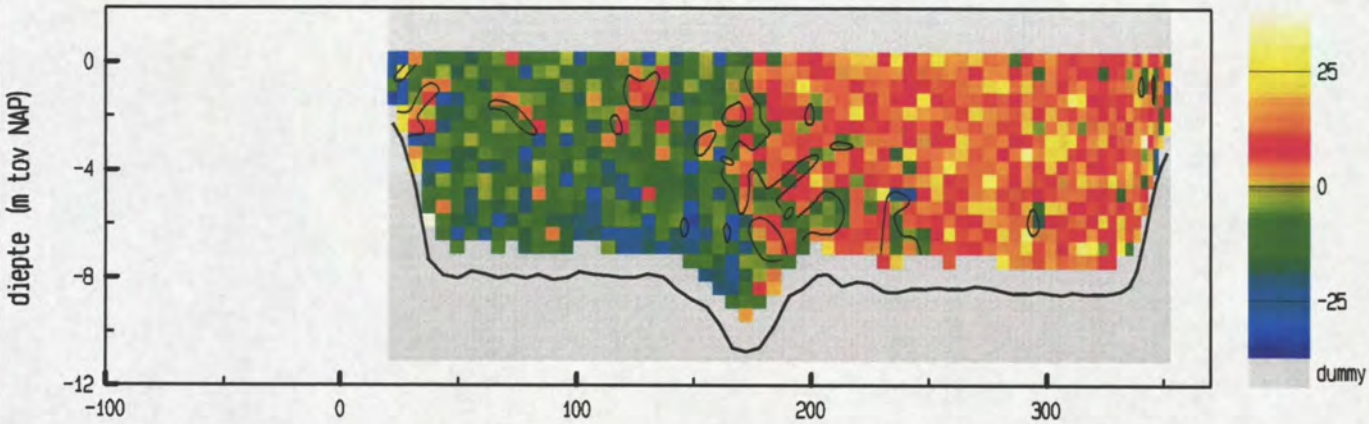
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	18 m
stroomsnelheid	:	29 cm/sec
stroomrichting	:	225 °
doorstroomoppervlak	:	3411 m²
raaidebiet	:	6 m³/sec

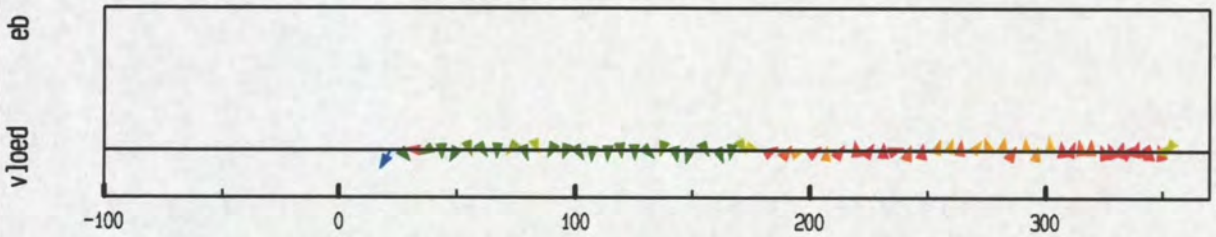
adcpfile : data/gevalid/1826/dw/1826033a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0136 - 0139
adcpfile : data/gevalid/1826/dw/1826039a.val

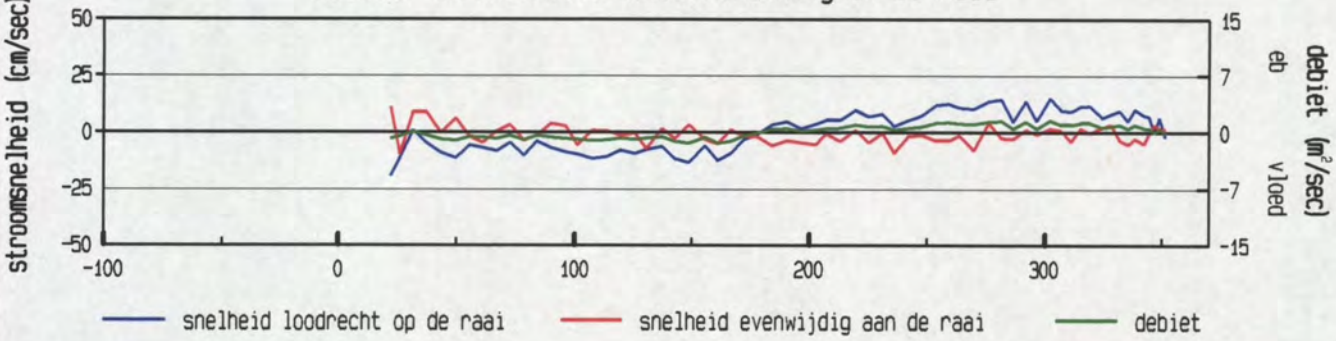
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



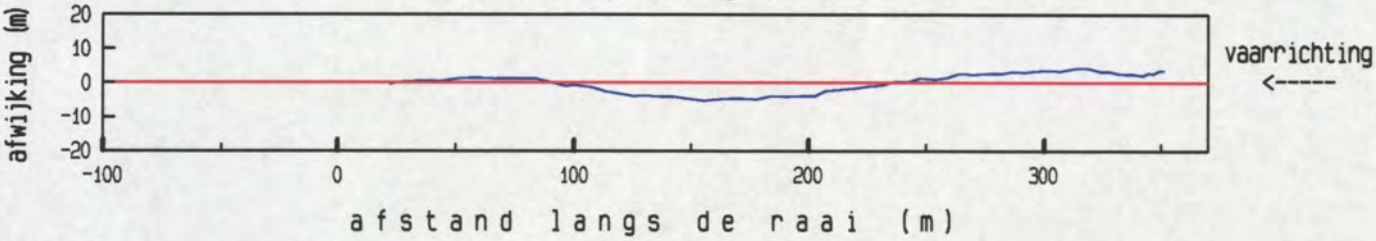
gemiddelde stroomsnelheid in de vertikaal

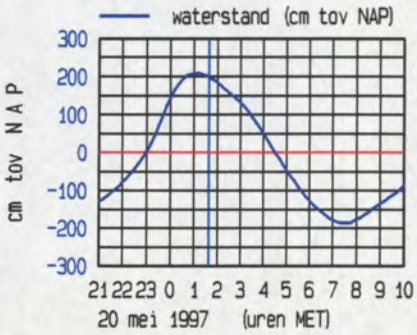


debiet- en stroomsnelheidsverdeling in de raai

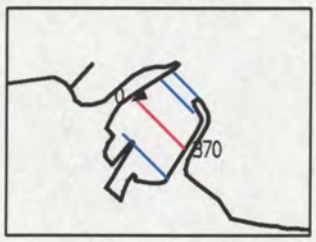


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt : 22 m
stroomsnelheid : 22 cm/sec
stroomrichting : 241 °

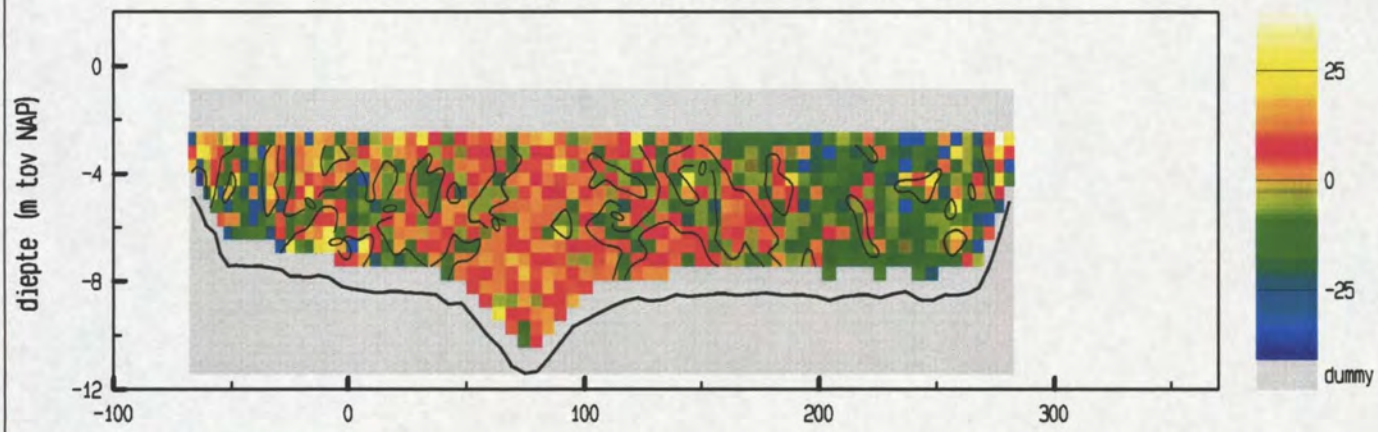
doorstroomoppervlak : 3349 m²
raaidebiet : 14 m³/sec

adcpfile : data/gevalid/1826/dw/1826039a.val

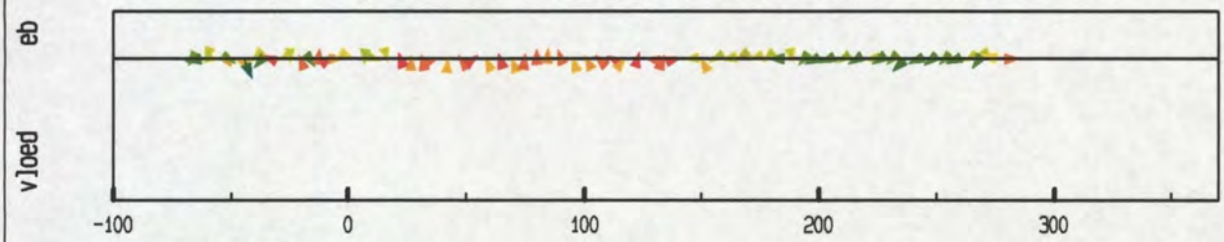
23f. Gemeten gegevens raai-5.

Veerhaven Breskens dd 20 mei 1997 tijd : 2151 - 2155
adcpfile : data/gevalid/1826/dw/1826010a.val

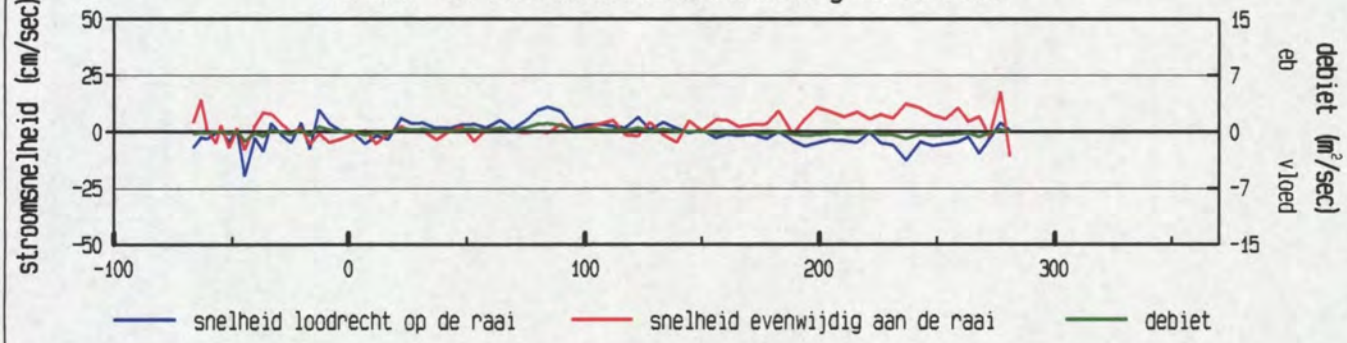
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



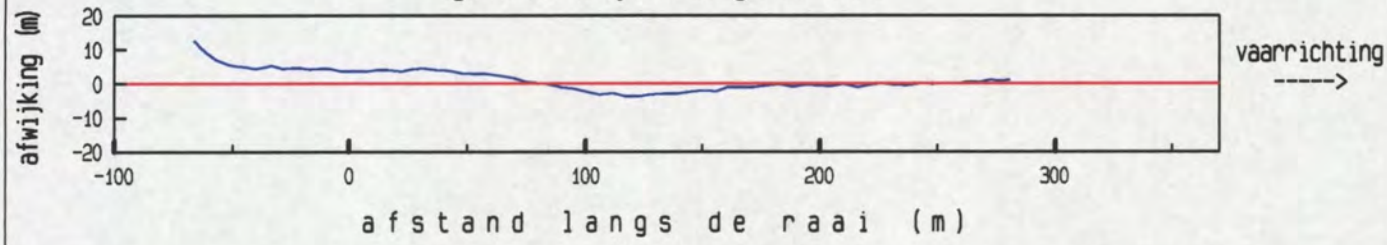
gemiddelde stroomsnelheid in de vertikaal

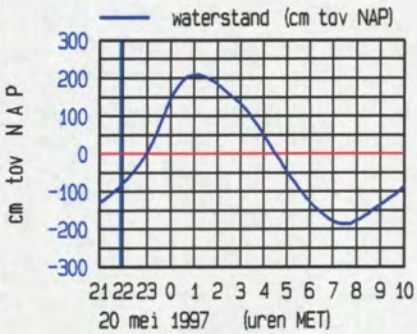


debiet- en stroomsnelheidsverdeling in de raai

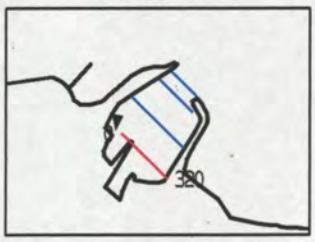


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

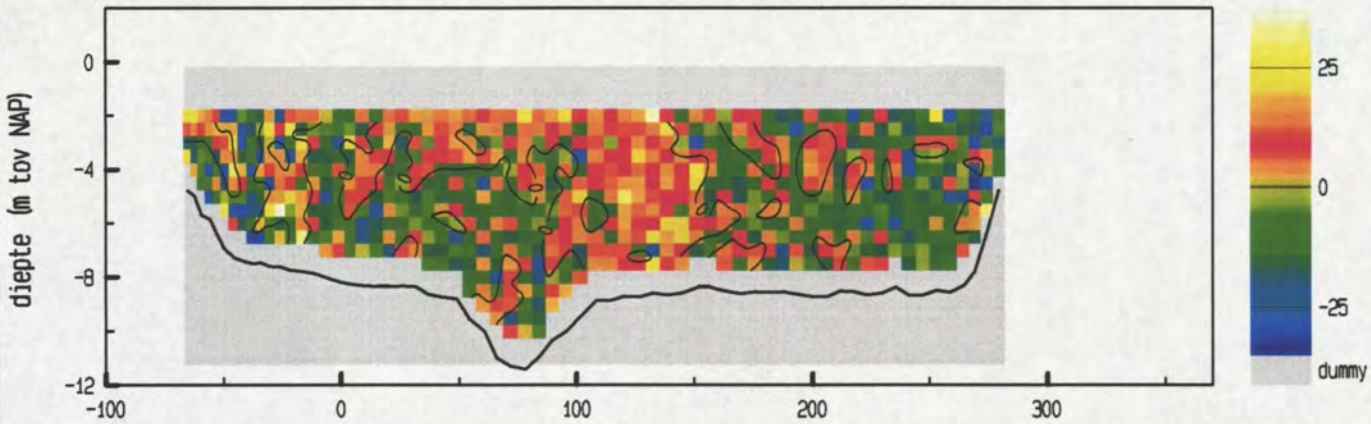
afstand uit nulpunt : -45 m
stroomsnelheid : 21 cm/sec
stroomrichting : 189 °

doorstroomoppervlak : 2691 m²
raaidebiet : -8 m³/sec

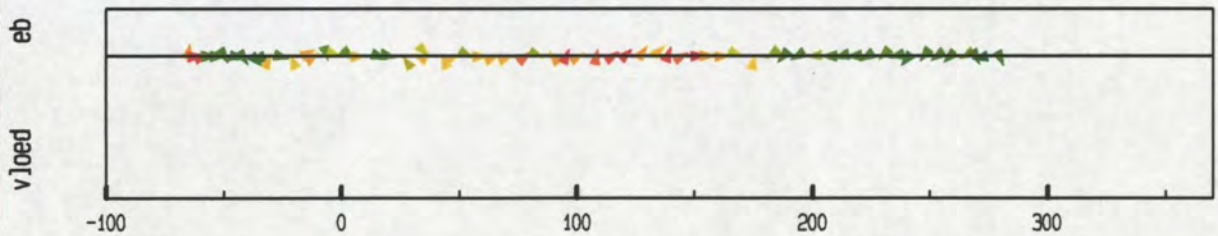
adcpfile : data/gevalid/1826/dw/1826010a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2249 - 2252
adcpfile : data/gevalid/1826/dw/1826016a.val

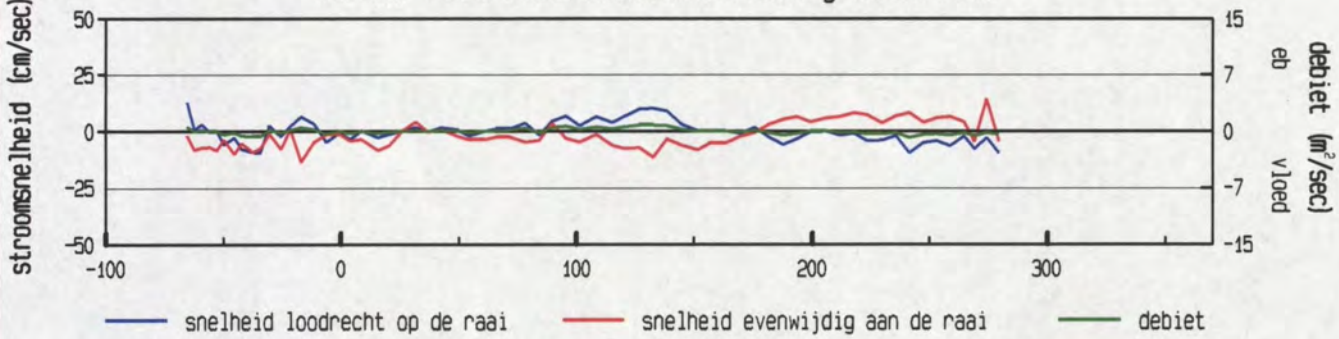
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



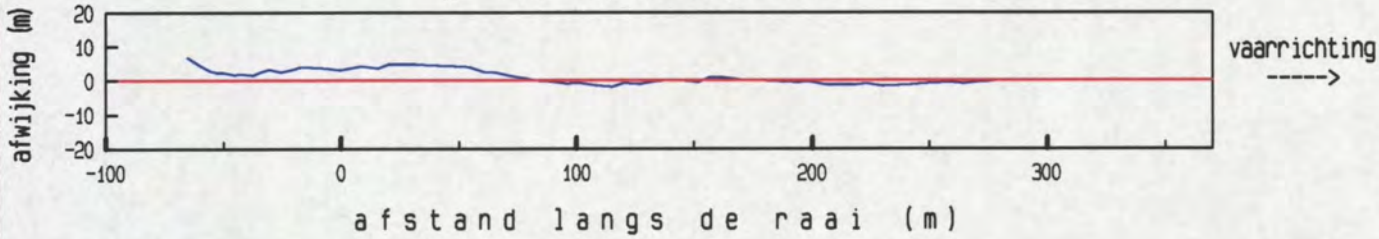
gemiddelde stroomsnelheid in de vertikaal

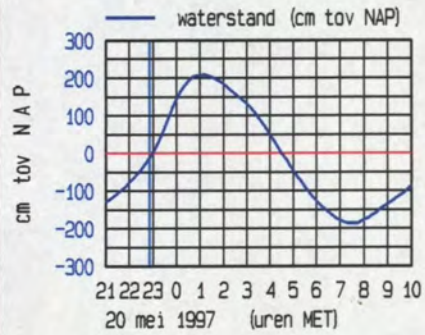


debiet- en stroomsnelheidsverdeling in de raai

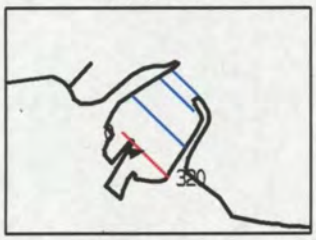


gevaren traject langs de raai





meetgebied



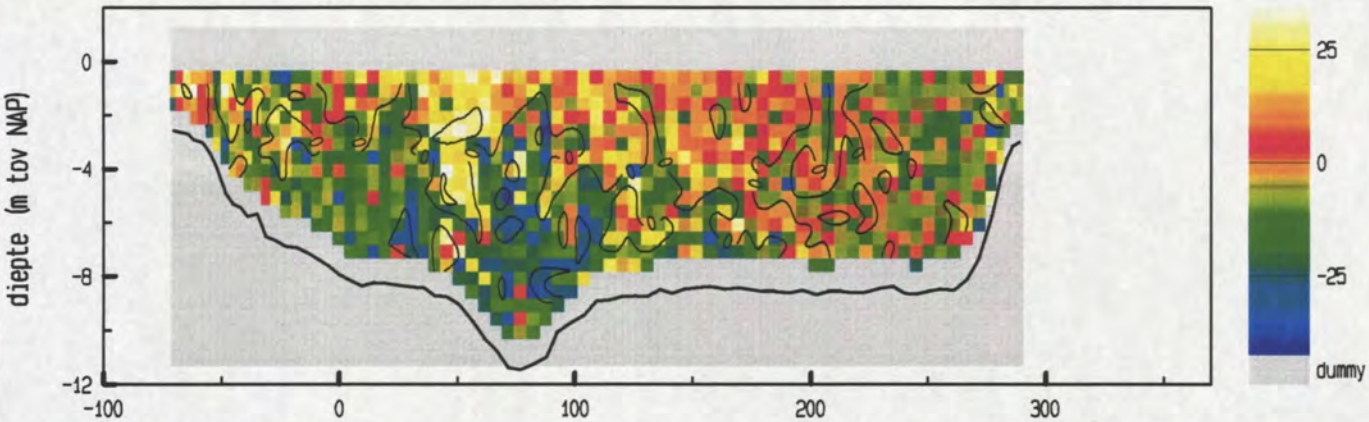
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	133 m
stroomsnelheid	:	15 cm/sec
stroomrichting	:	79 °
doorstroomoppervlak	:	2911 m²
raaidebiet	:	-1 m³/sec

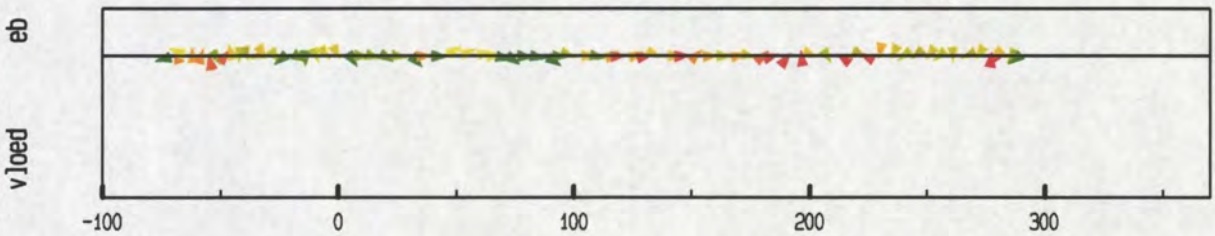
adcpfile : data/gevalid/1826/dw/1826016a.val

Veerhaven Breskens dd 20 mei 1997 tijd : 2350 - 2355
adcpfile : data/gevalid/1826/dw/1826022a.val

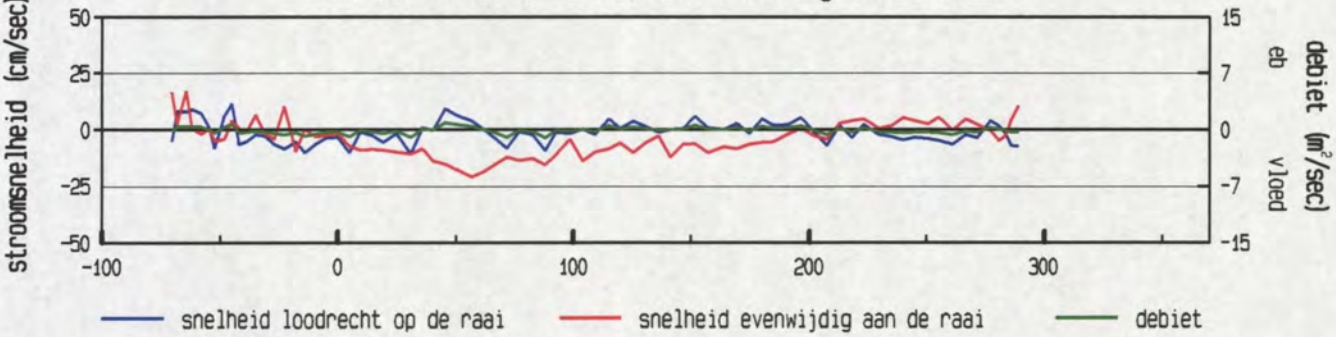
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



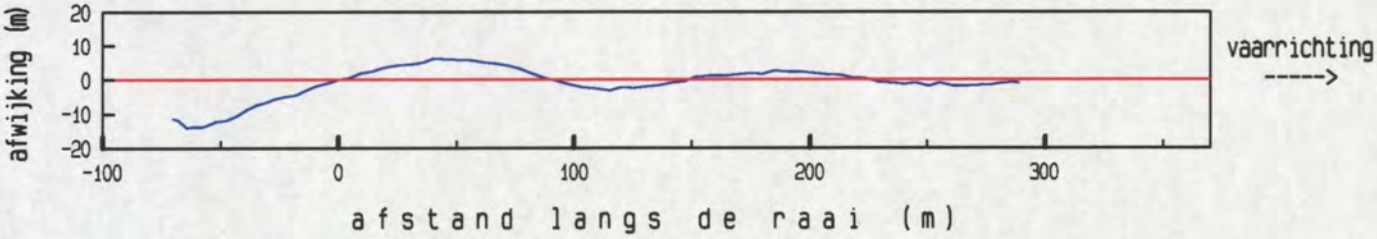
gemiddelde stroomsnelheid in de vertikaal

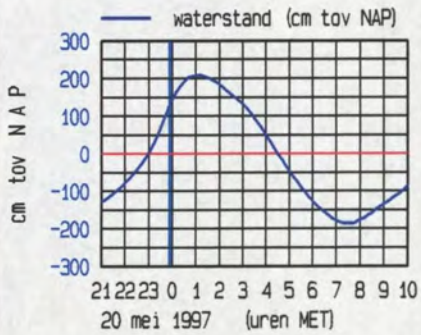


debiet- en stroomsnelheidsverdeling in de raai

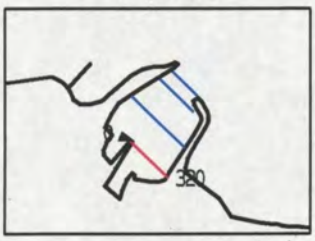


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

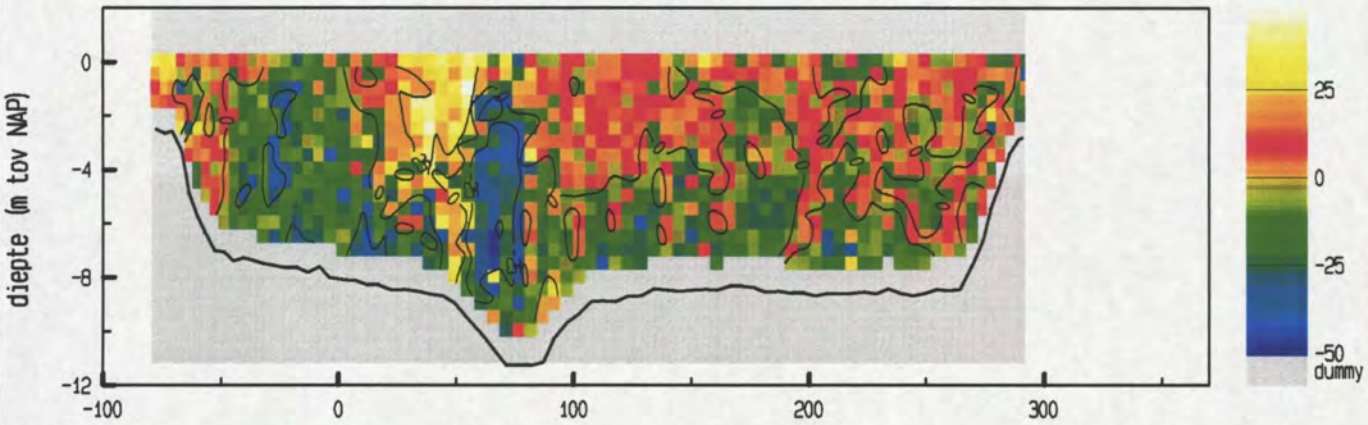
afstand uit nulpunt : 56 m
stroomsnelheid : 21 cm/sec
stroomrichting : 111 °

doorstroomoppervlak : 3369 m²
raaidebiet : -42 m³/sec

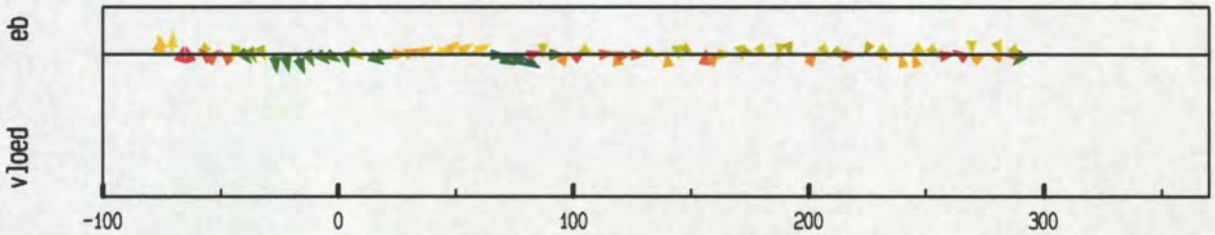
adcpfile : data/gevalid/1826/dw/1826022a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0027 - 0032
adcpfile : data/gevalid/1826/dw/1826028a.val

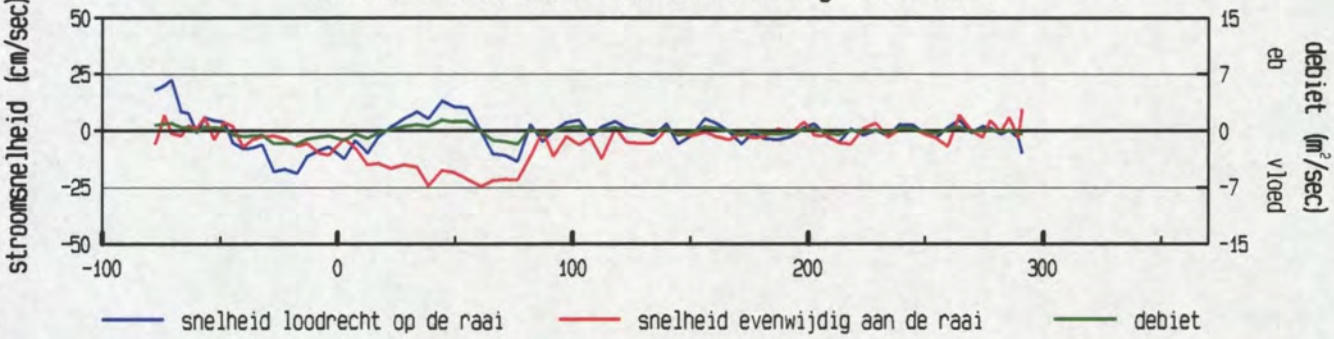
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



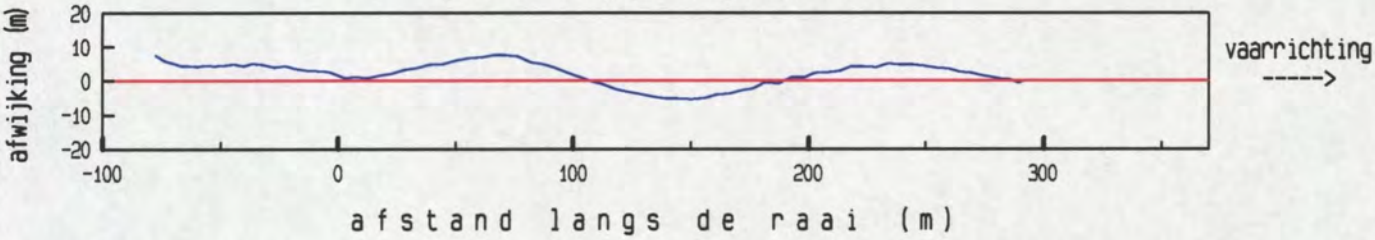
gemiddelde stroomsnelheid in de vertikaal

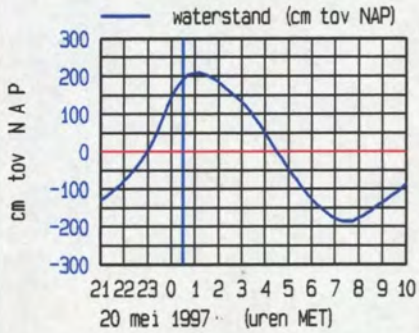


debiet- en stroomsnelheidsverdeling in de raai

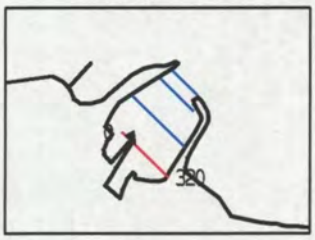


gevaren traject langs de raai





meetgebied



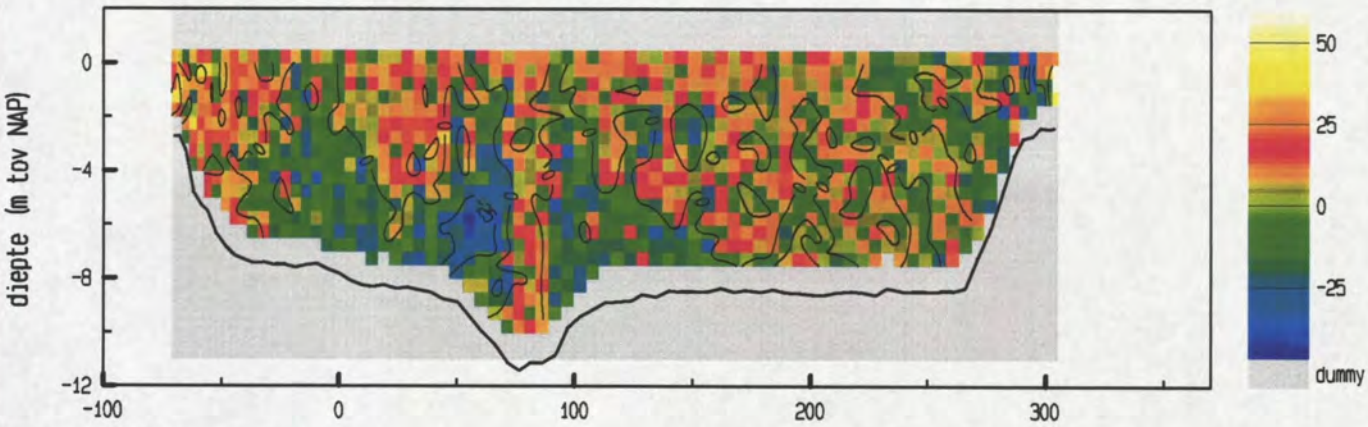
maximum gemiddelde stroomsnelheid in de vertikaal

afstand uit nulpunt	:	76 m
stroomsnelheid	:	26 cm/sec
stroomrichting	:	153 °
doorstroomoppervlak	:	3731 m²
raaidebiet	:	-40 m³/sec

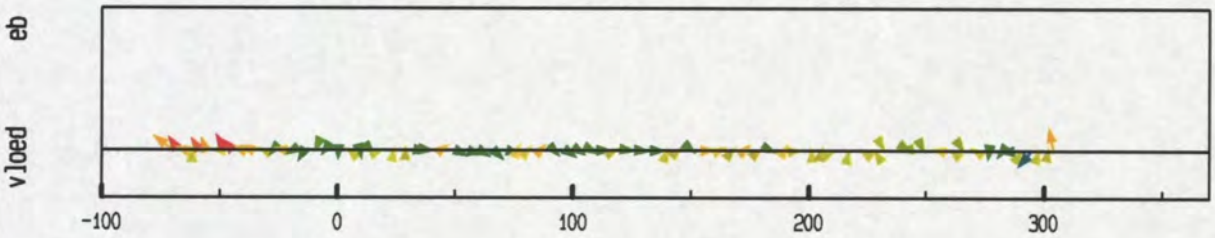
adcpfile : data/gevalid/1826/dw/1826028a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0104 - 0109
adcpfile : data/gevalid/1826/dw/1826034a.val

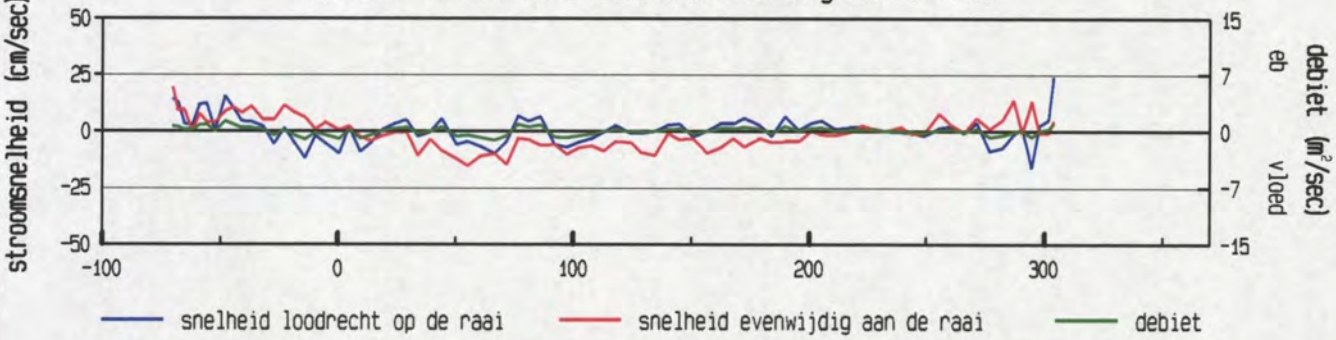
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



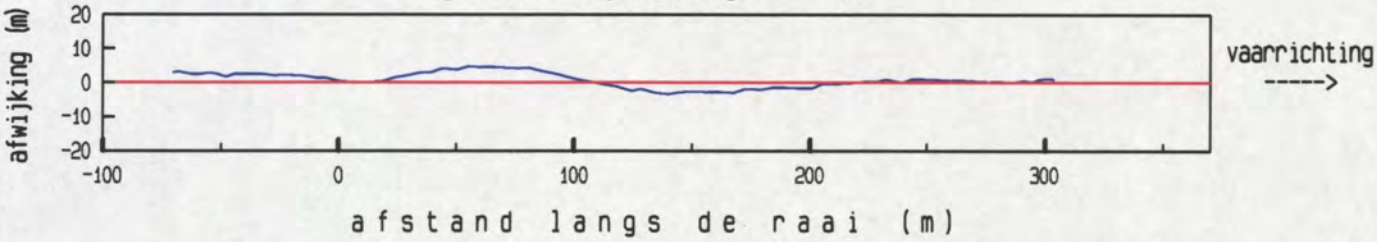
gemiddelde stroomsnelheid in de vertikaal

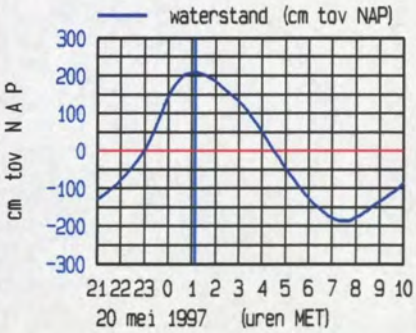


debiet- en stroomsnelheidsverdeling in de raai

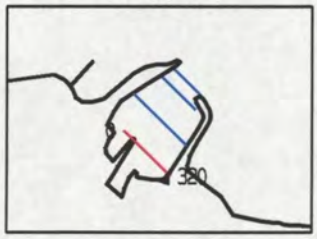


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroomsnelheid in de vertikaal

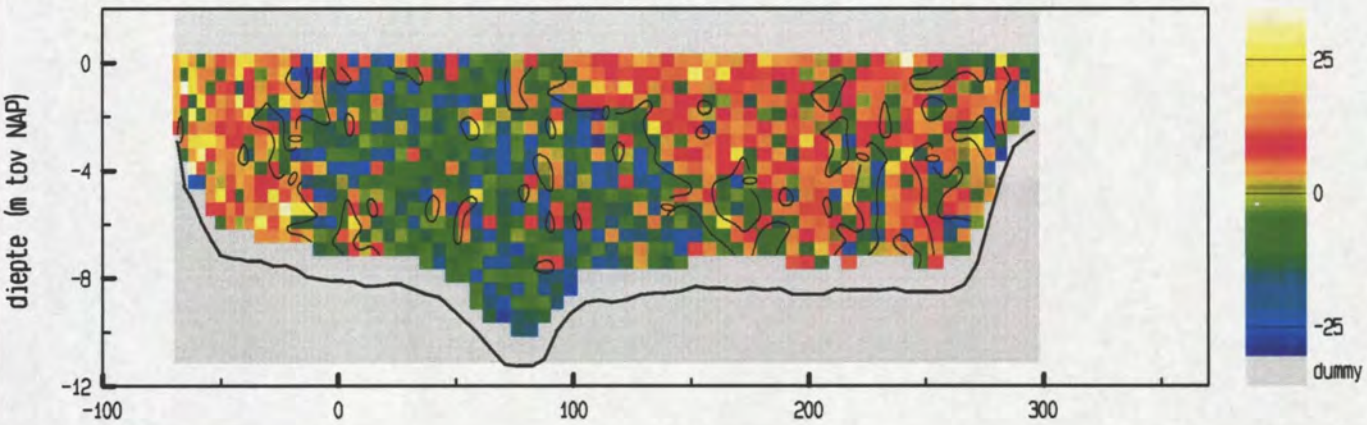
afstand uit nulpunt : 304 m
stroomsnelheid : 25 cm/sec
stroomrichting : 20 °

doorstroomoppervlak : 3801 m²
raaidebiet : 2 m³/sec

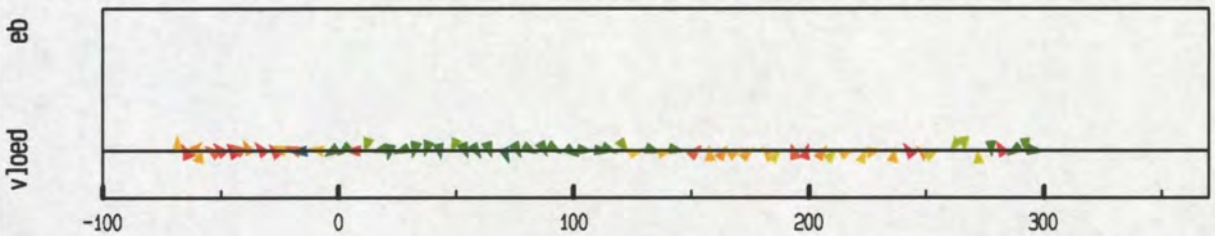
adcpfile : data/gevalid/1826/dw/1826034a.val

Veerhaven Breskens dd 21 mei 1997 tijd : 0141 - 0145
adcpfile : data/gevalid/1826/dw/1826040a.val

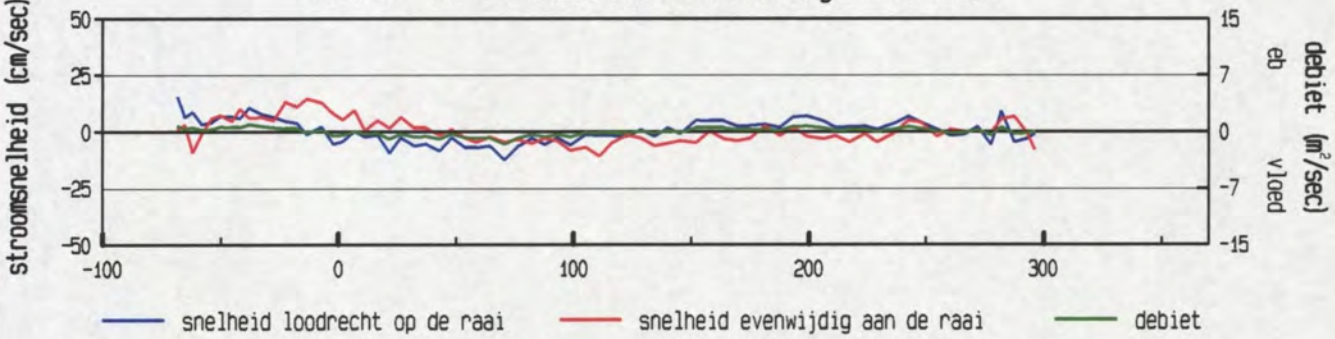
gemeten snelheid (cm/sec) (eb > 0 , vloed < 0)



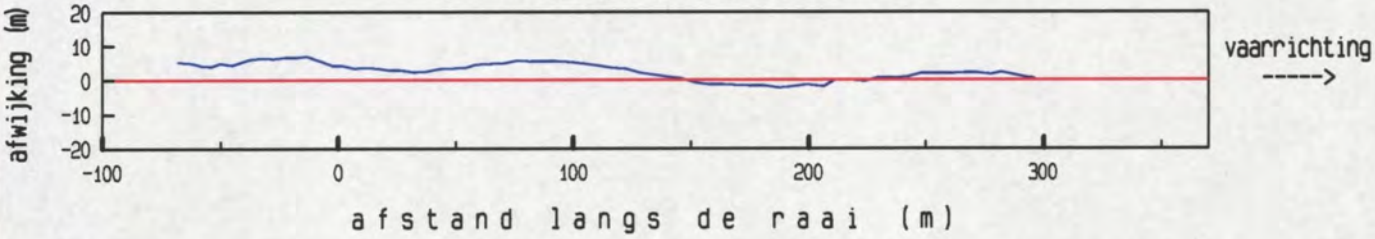
gemiddelde stroomsnelheid in de vertikaal

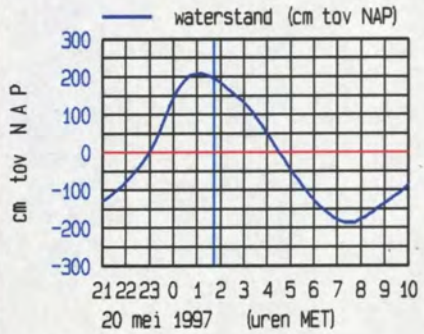


debiet- en stroomsnelheidsverdeling in de raai

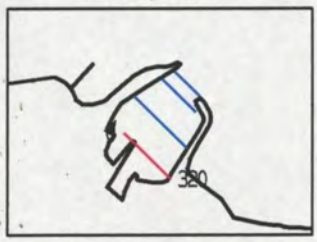


gevaren traject langs de raai





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

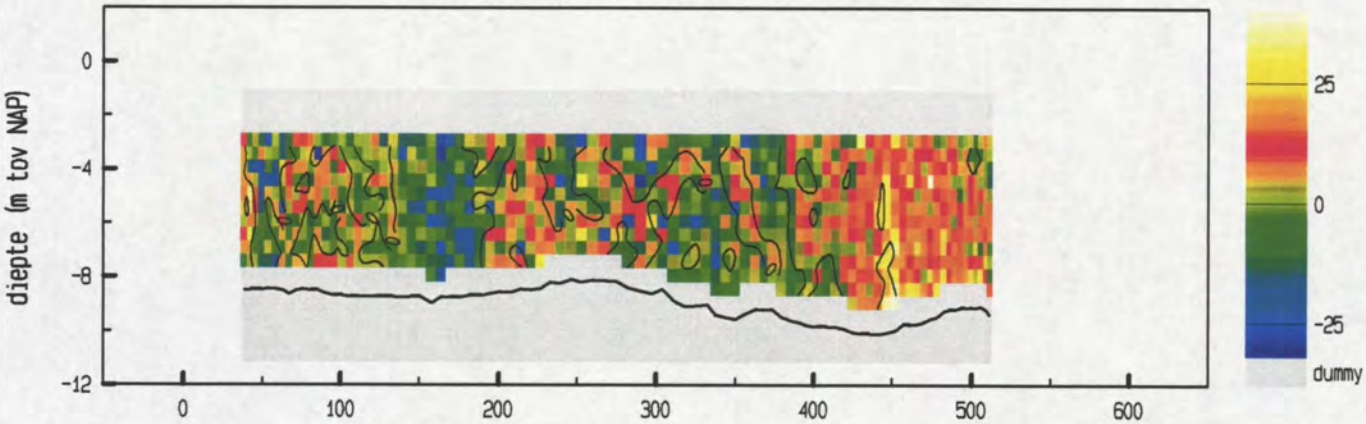
afstand uit nulpunt	:	-68 m
stroomsnelheid	:	16 cm/sec
stroomrichting	:	28 °
doorstroomoppervlak	:	3729 m²
raaidebiet	:	2 m³/sec

adcpfile : data/gevalid/1826/dw/1826040a.val

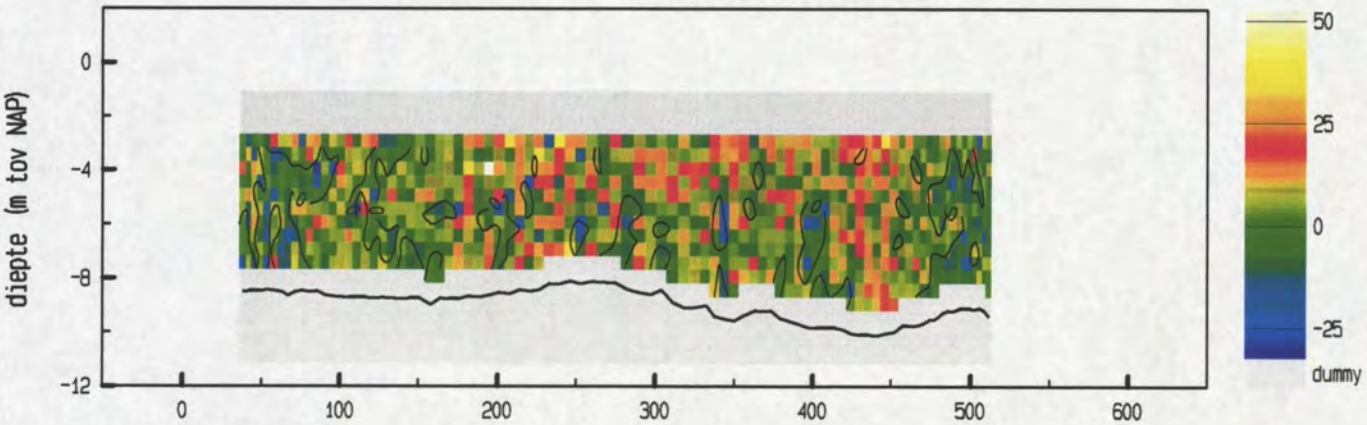
24a. Ontbonden gegevens raai-1.

Veerhaven Breskens20 mei 1997 tijd : 2128 - 2133
adcpfile : data/gevalid/1826/ln/1826006a.val

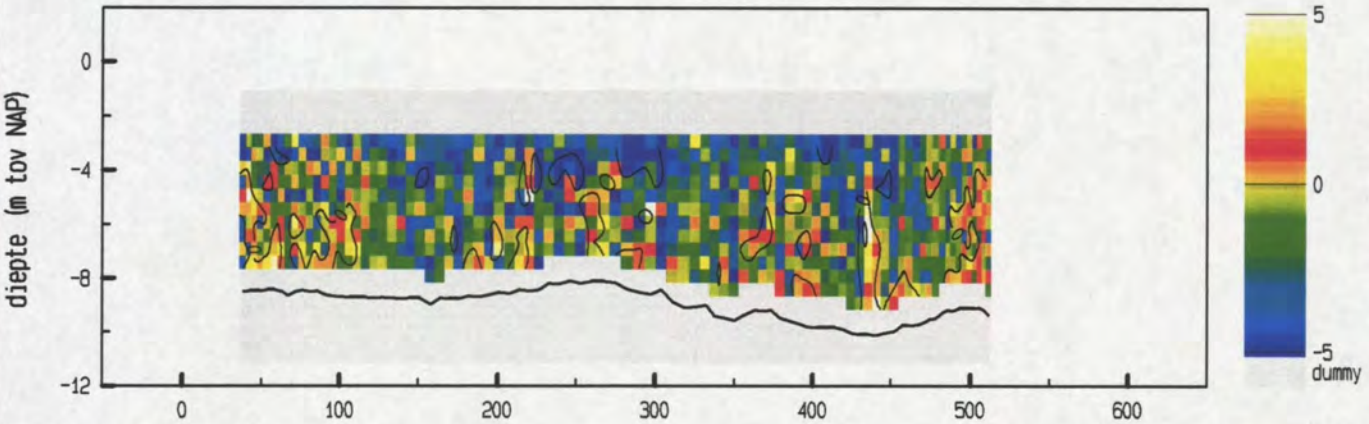
snelheid loodrecht op de raai (cm/sec)

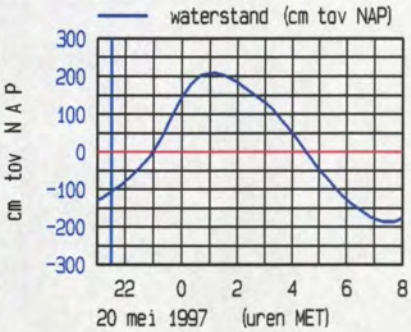


snelheid evenwijdig aan de raai (cm/sec)

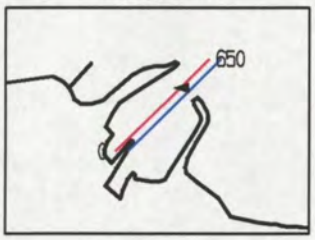


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

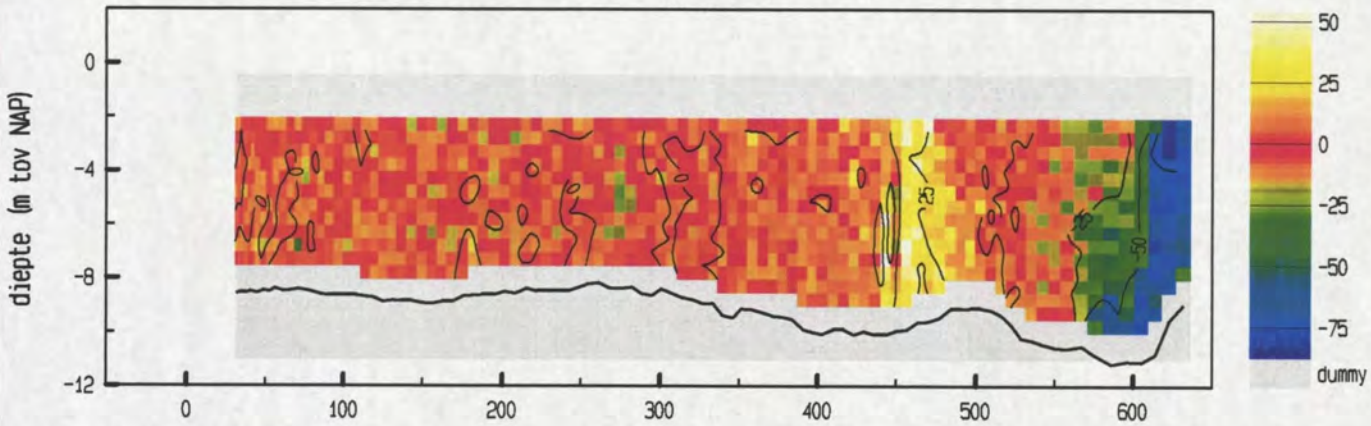
afstand uit nulpunt : 446 m
stroomsnelheid : 30 cm/sec
stroomrichting : 269 °

doorstroomoppervlak : 3766 m^2
raaidebiet : 63 m^3/sec

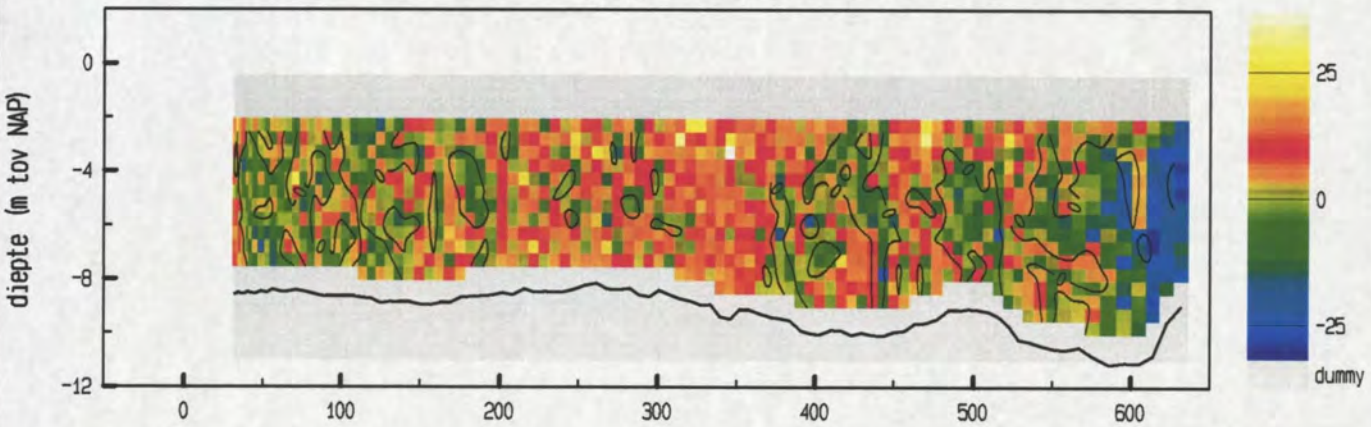
adcpfile : data/gevalid/1826/ln/1826006a.val

Veerhaven Breskens20 mei 1997 tijd : 2227 - 2233
adcpfile : data/gevalid/1826/ln/1826012a.val

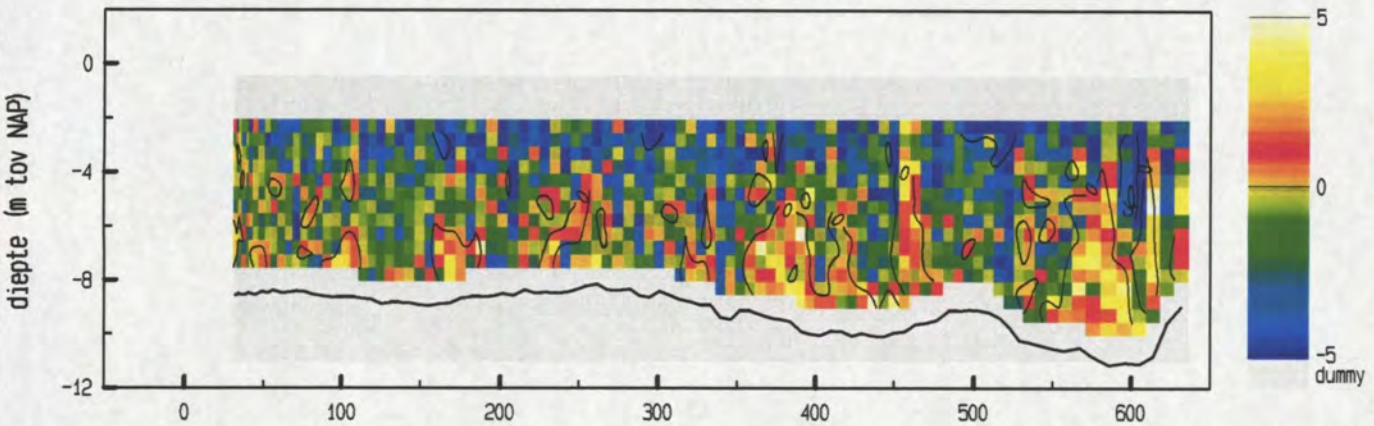
snelheid loodrecht op de raai (cm/sec)

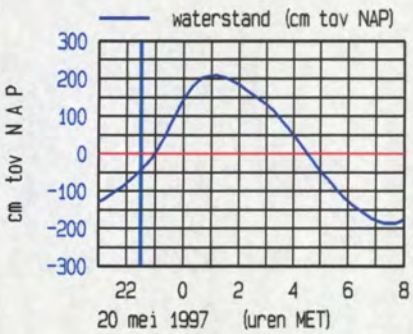


snelheid evenwijdig aan de raai (cm/sec)

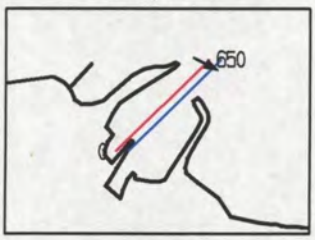


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

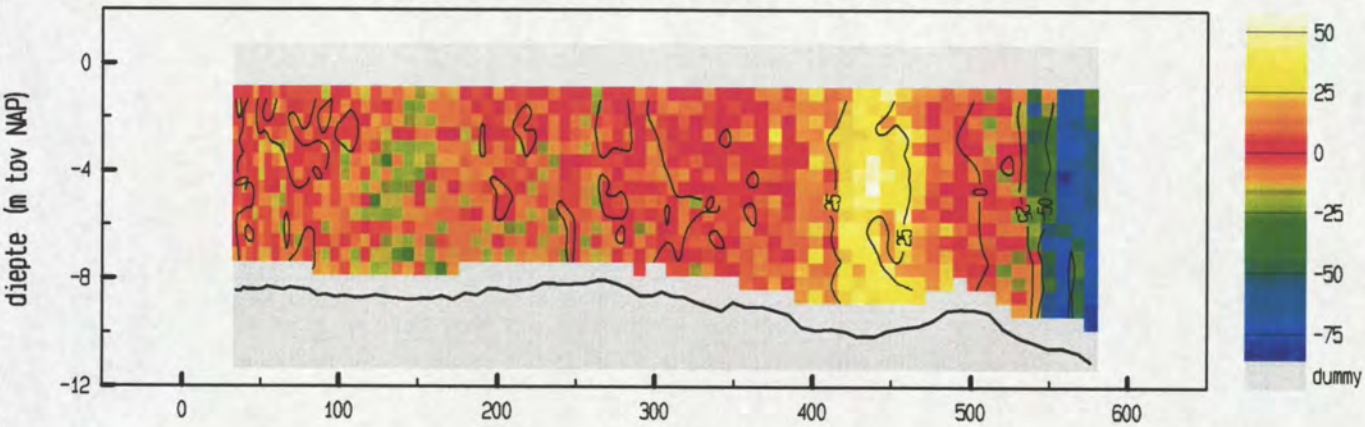
afstand uit nulpunt : 623 m
stroomsnelheid : 76 cm/sec
stroomrichting : 118 °

doorstroomoppervlak : 5344 m^2
raaidebiet : -267 m^3/sec

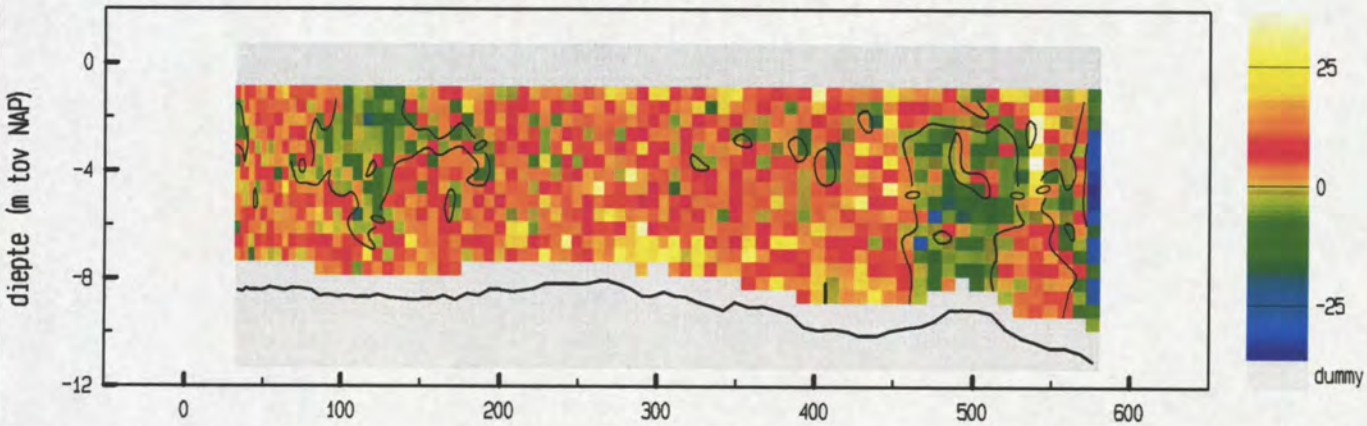
adcpfile : data/gevalid/1826/ln/1826012a.val

Veerhaven Breskens20 mei 1997 tijd : 2329 - 2333
adcpfile : data/gevalid/1826/ln/1826018a.val

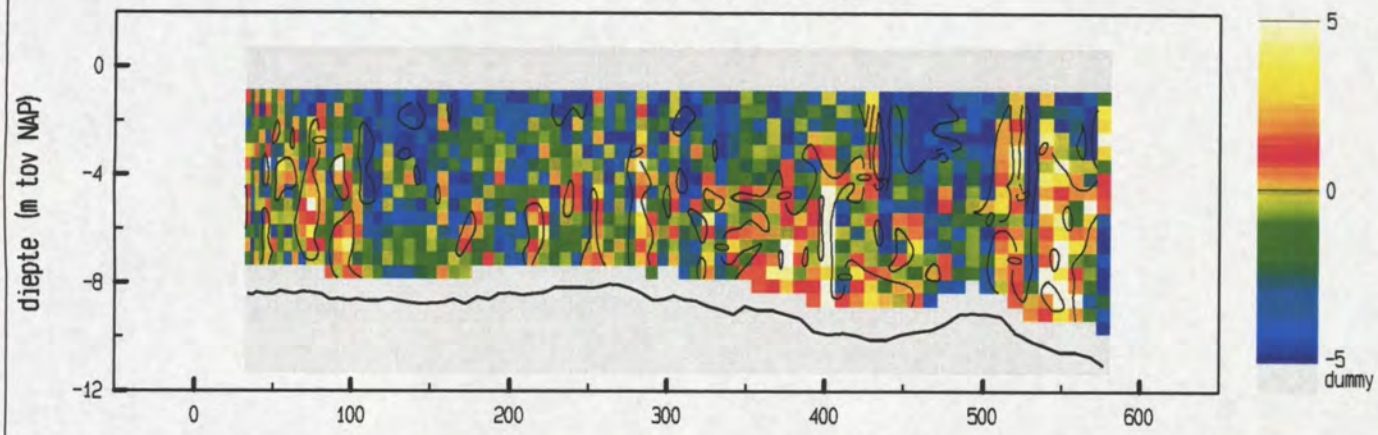
snelheid loodrecht op de raai (cm/sec)

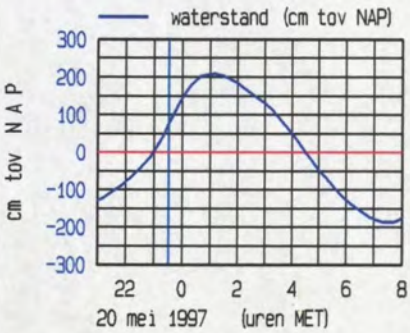


snelheid evenwijdig aan de raai (cm/sec)

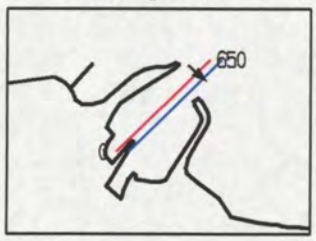


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

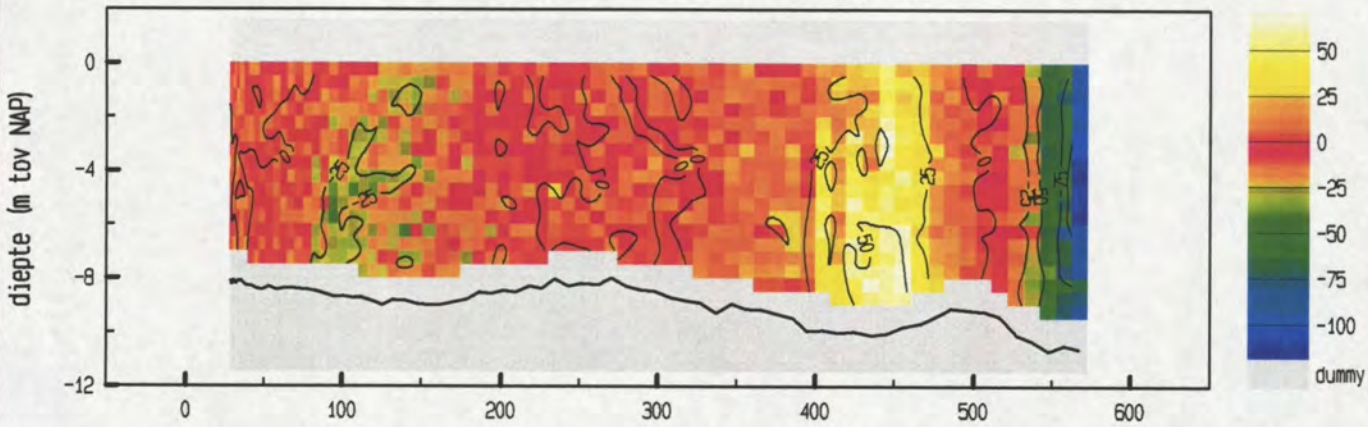
afstand uit nulpunt : 559 m
stroomsnelheid : 65 cm/sec
stroomrichting : 131 °

doorstroomoppervlak : 5378 m^2
raaidebiet : -120 m^3/sec

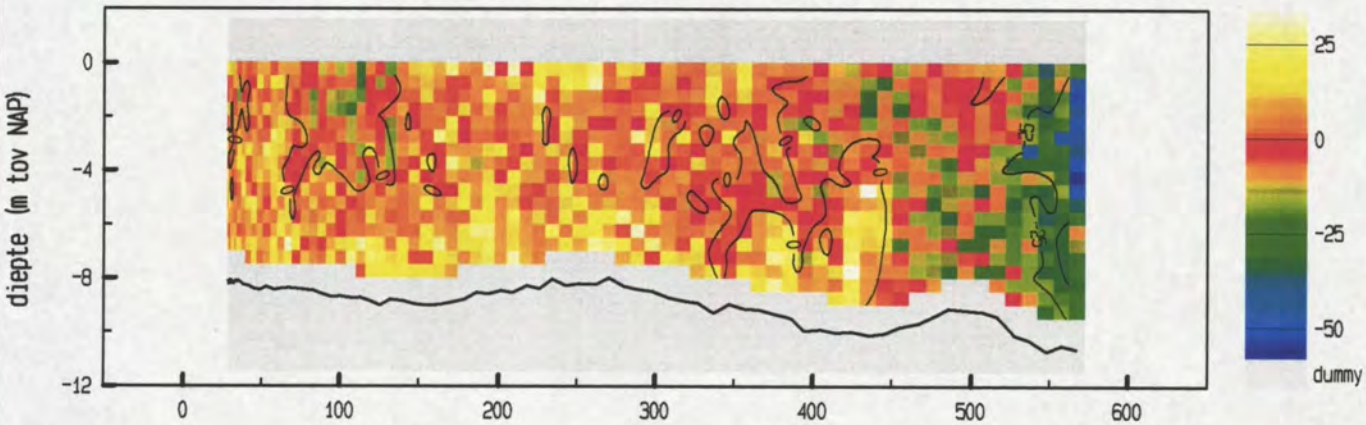
adcpfile : data/gevalid/1826/ln/1826018a.val

Veerhaven Breskens21 mei 1997 tijd : 0007 - 0012
adcpfile : data/gevalid/1826/ln/1826024a.val

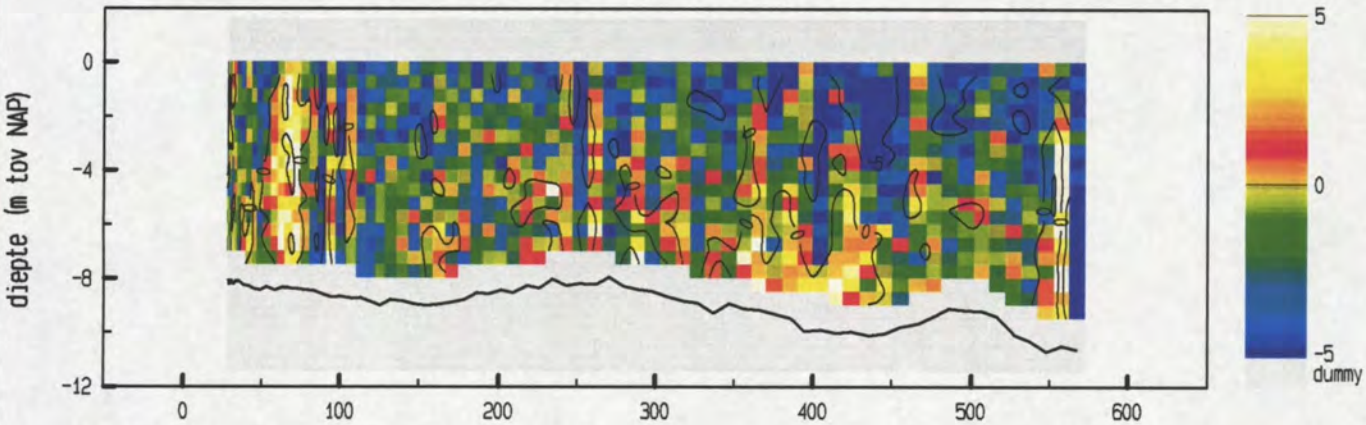
snelheid loodrecht op de raai (cm/sec)

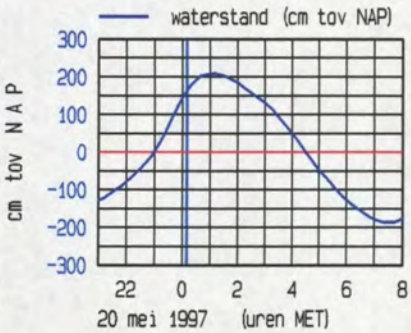


snelheid evenwijdig aan de raai (cm/sec)

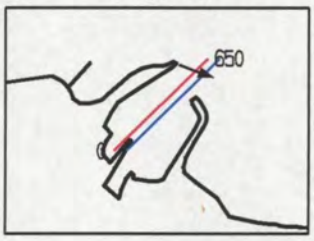


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

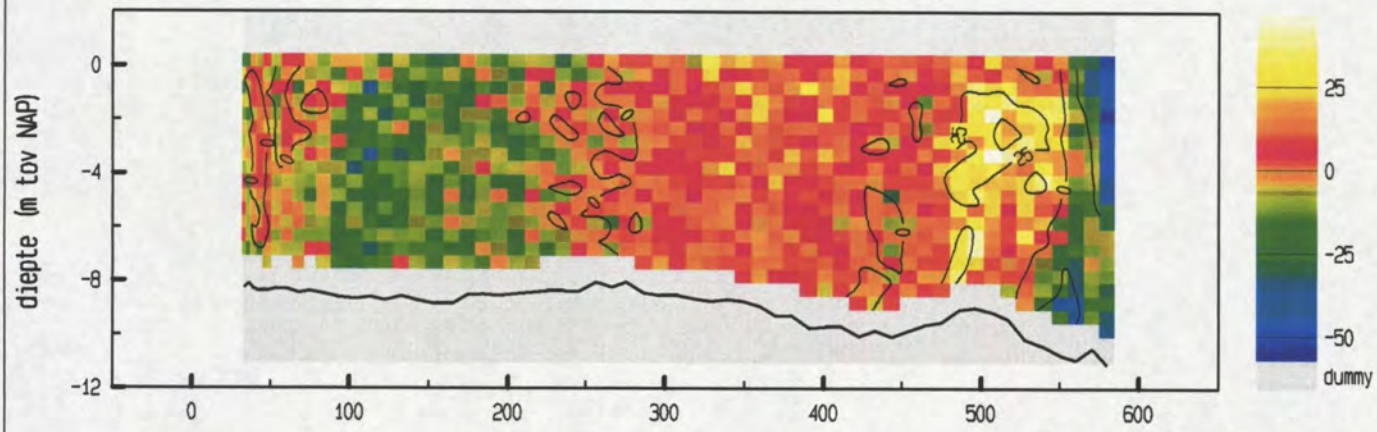
afstand uit nulpunt : 567 m
stroomsnelheid : 96 cm/sec
stroomrichting : 111 °

doorstroomoppervlak : 5824 m^2
raaidebiet : -77 m^3/sec

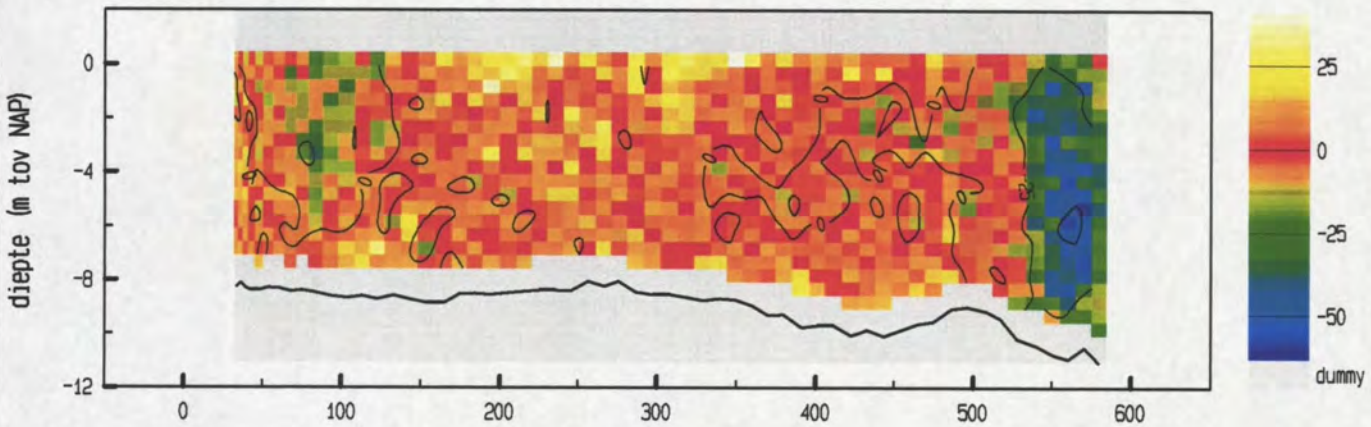
adcpfile : data/gevalid/1826/ln/1826024a.val

Veerhaven Breskens21 mei 1997 tijd : 0044 - 0048
adcpfile : data/gevalid/1826/ln/1826030a.val

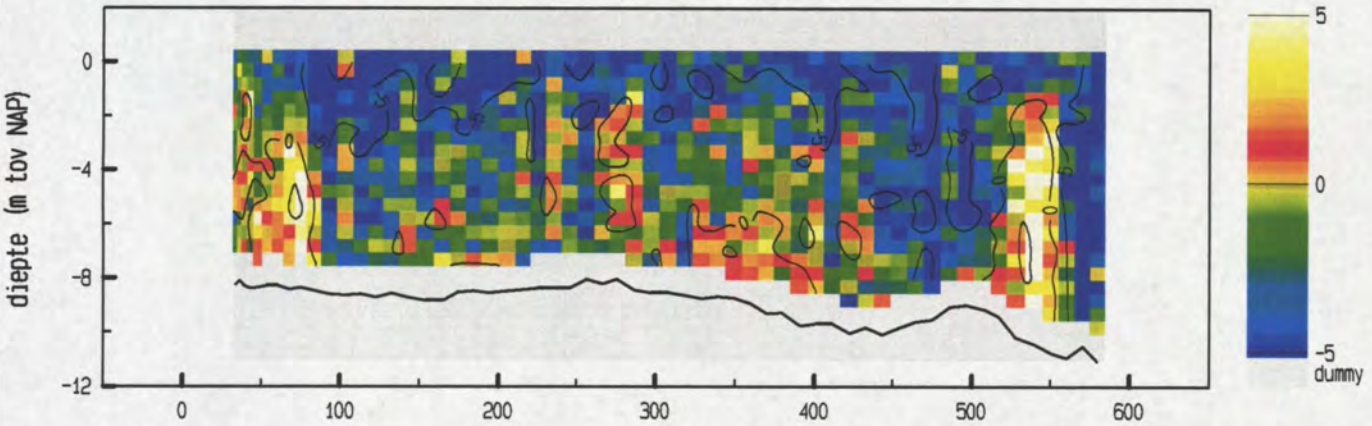
snelheid loodrecht op de raai (cm/sec)

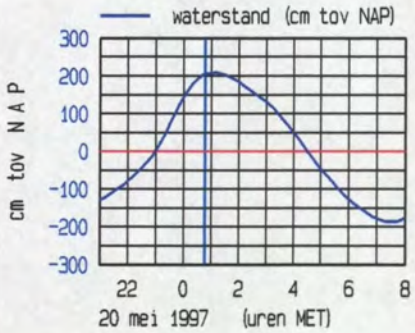


snelheid evenwijdig aan de raai (cm/sec)

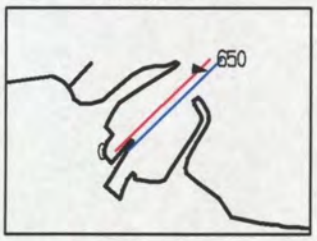


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

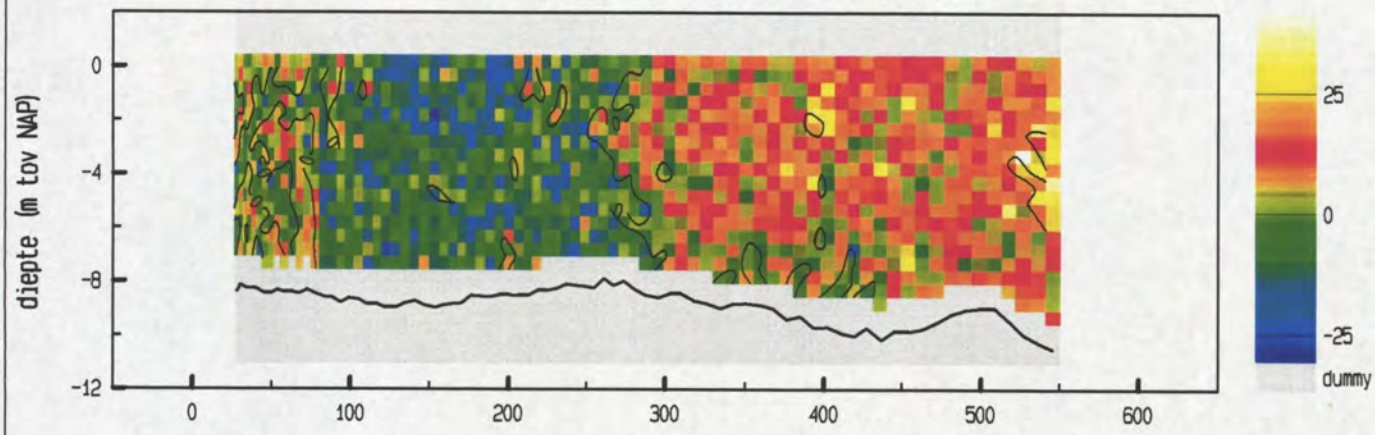
afstand uit nulpunt : 580 m
stroomsnelheid : 40 cm/sec
stroomrichting : 98 °

doorstroomoppervlak : 6132 m^2
raaidebiet : 0 m^3/sec

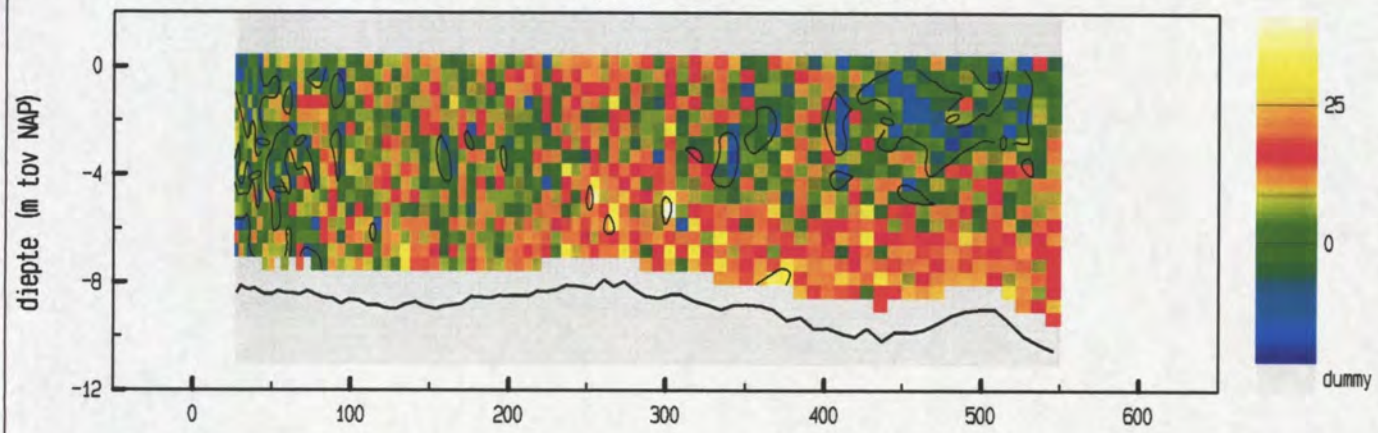
adcpfile : data/gevalid/1826/ln/1826030a.val

Veerhaven Breskens21 mei 1997 tijd : 0121 - 0126
adcpfile : data/gevalid/1826/ln/1826036a.val

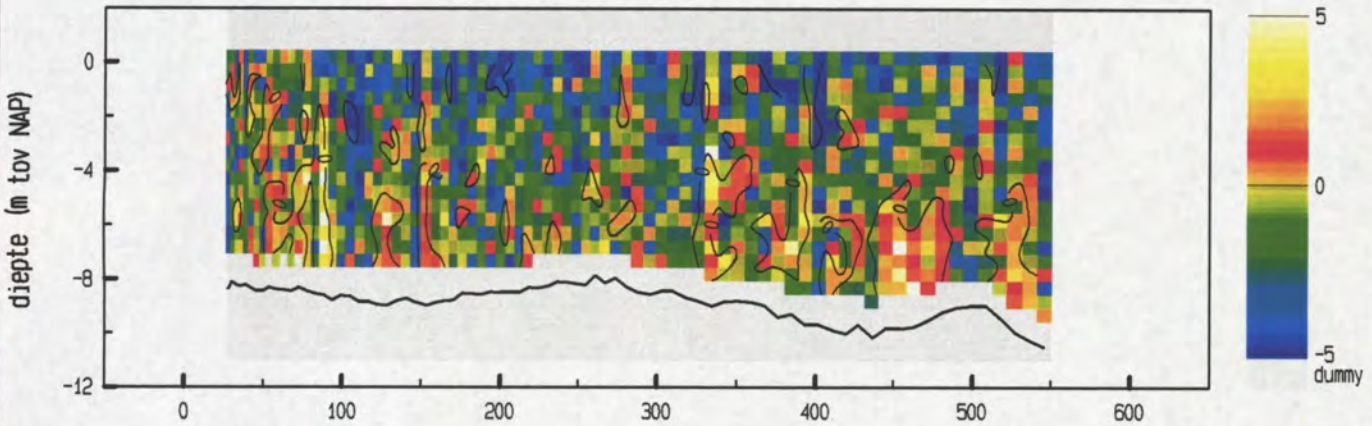
snelheid loodrecht op de raai (cm/sec)

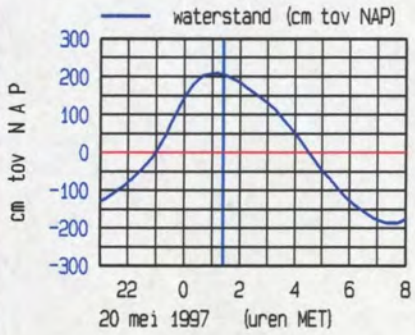


snelheid evenwijdig aan de raai (cm/sec)

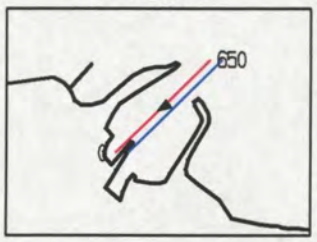


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt : 303 m
stroomsnelheid : 21 cm/sec
stroomrichting : 237 °

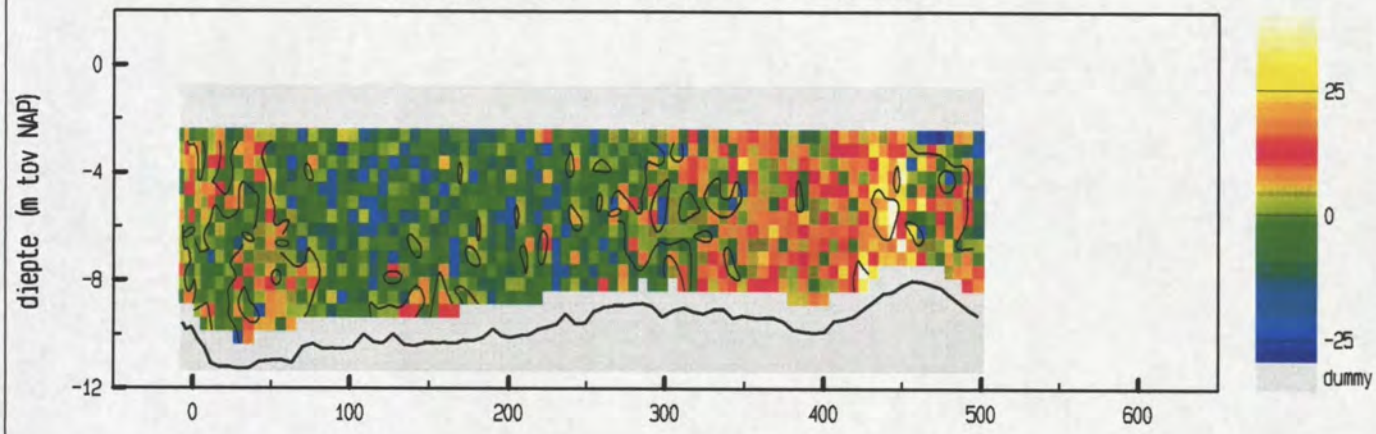
doorstroomoppervlak : 5754 m^2
raaidebiet : 153 m^3/sec

adcpfile : data/gevalid/1826/ln/1826036a.val

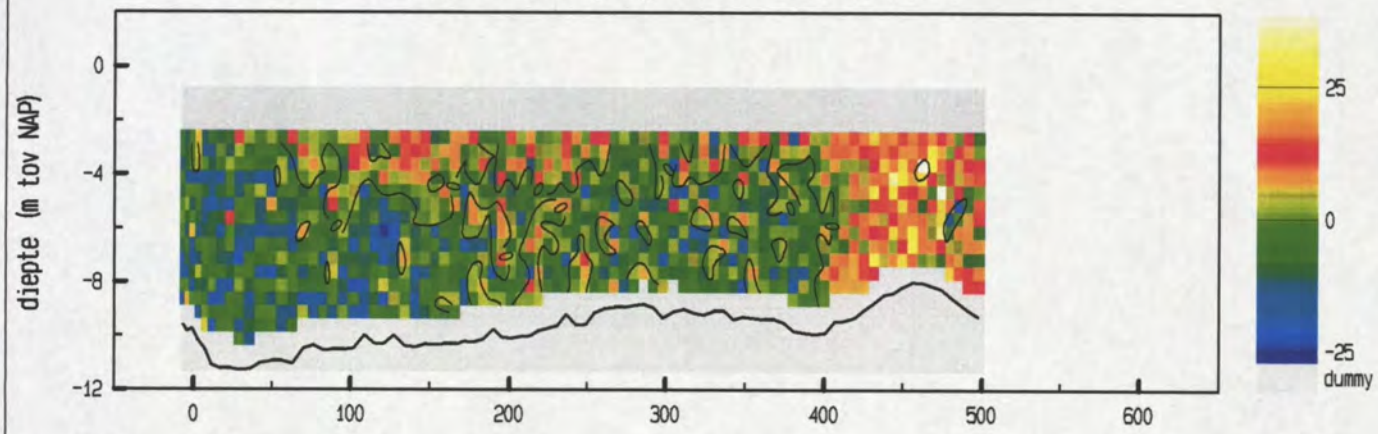
24b. Ontbonden gegevens raai-6.

Veerhaven Breskens20 mei 1997 tijd : 2158 - 2203
adcpfile : data/gevalid/1826/ln/1826011a.val

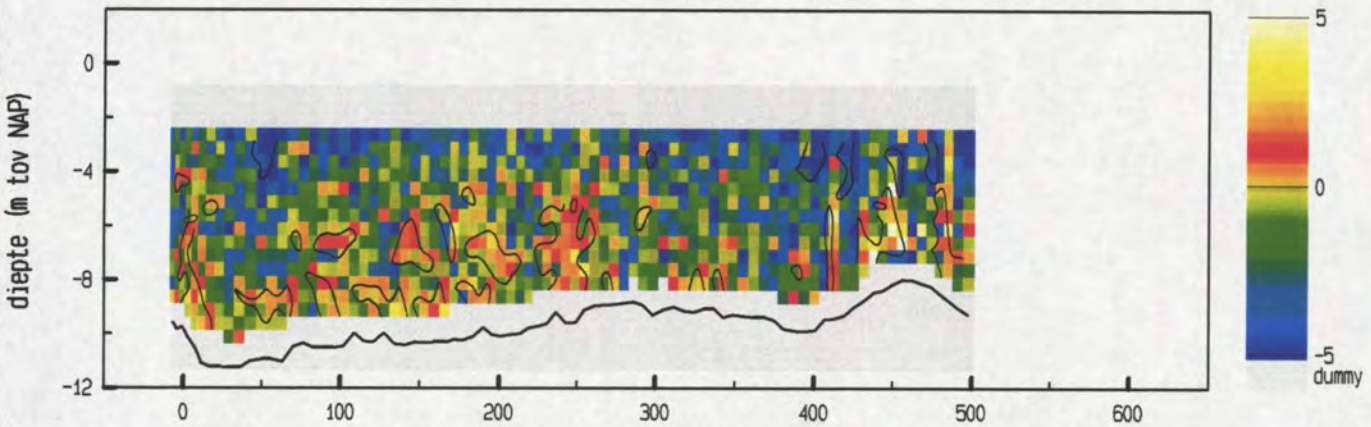
snelheid loodrecht op de raai (cm/sec)

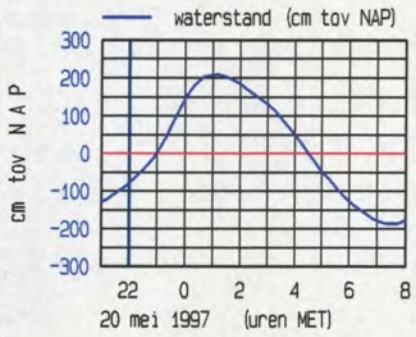


snelheid evenwijdig aan de raai (cm/sec)

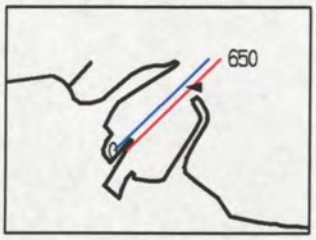


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

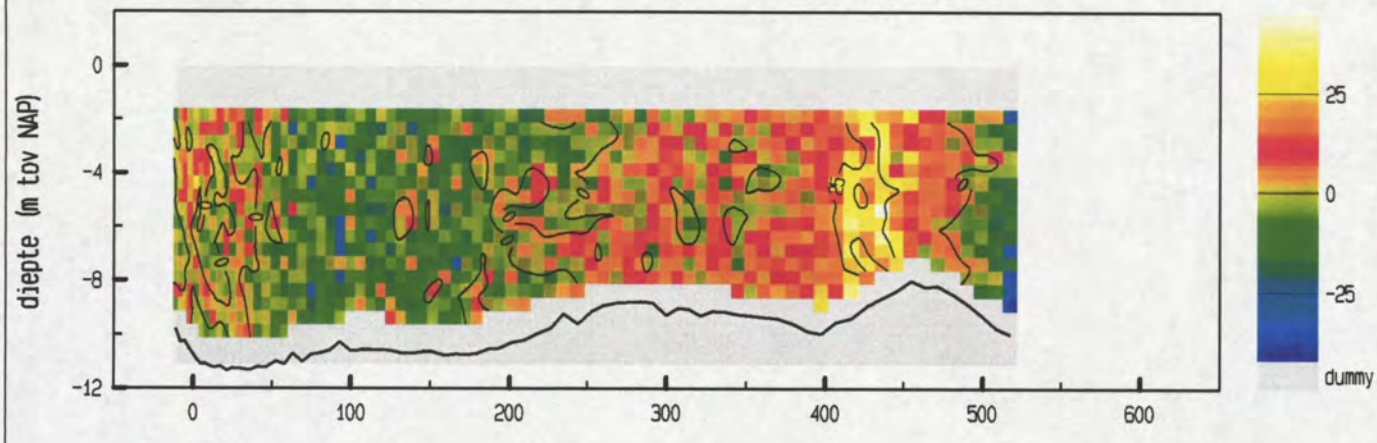
afstand uit nulpunt : 450 m
stroomsnelheid : 29 cm/sec
stroomrichting : 271 °

doorstroomoppervlak : 4560 m^2
raaidebiet : 30 m^3/sec

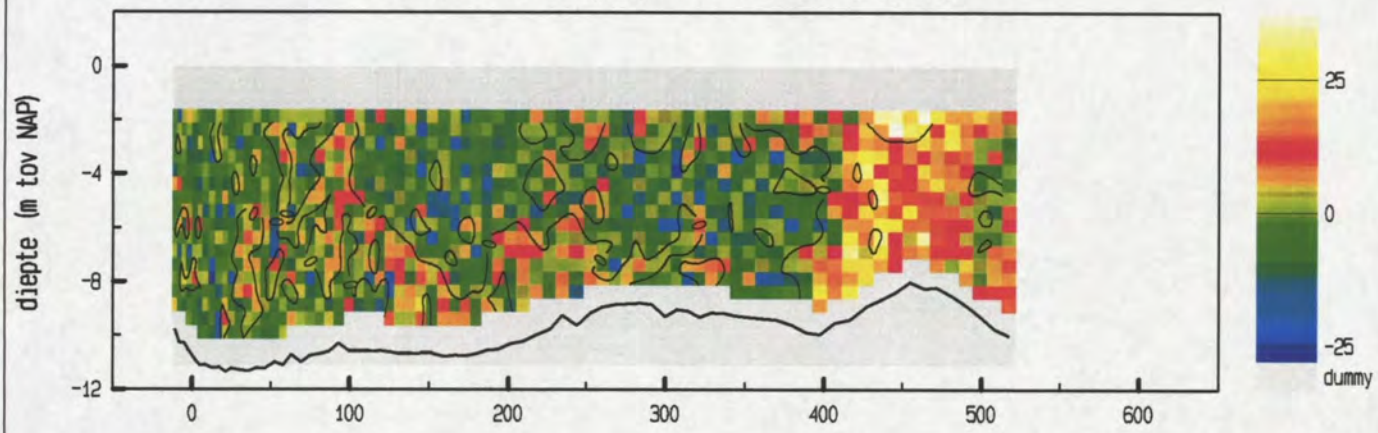
adcpfile : data/gevalid/1826/ln/1826011a.val

Veerhaven Breskens20 mei 1997 tijd : 2255 - 2259
adcpfile : data/gevalid/1826/ln/1826017a.val

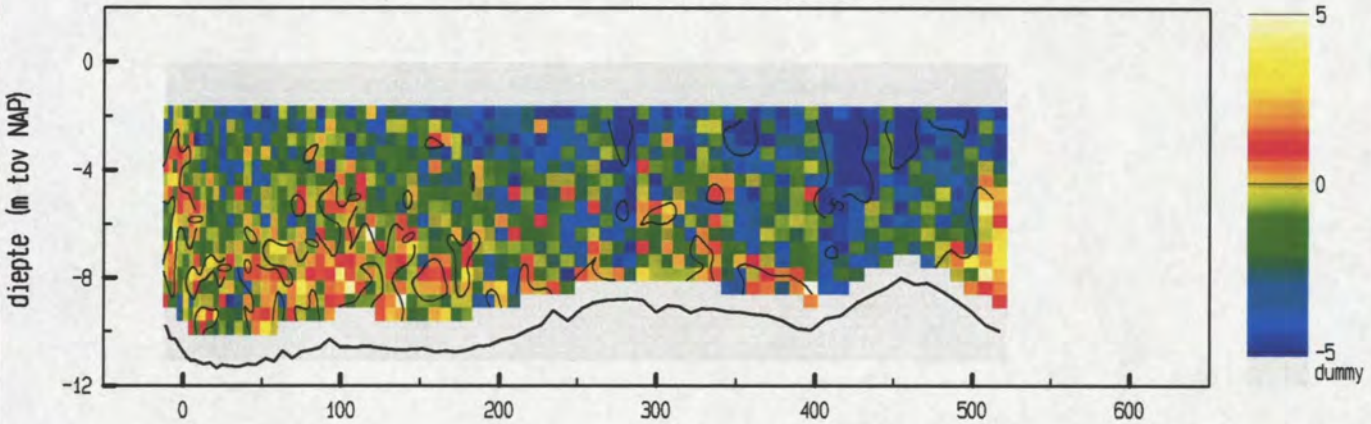
snelheid loodrecht op de raai (cm/sec)

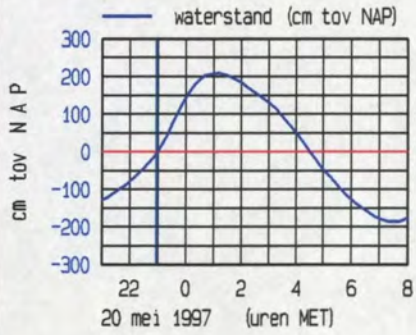


snelheid evenwijdig aan de raai (cm/sec)

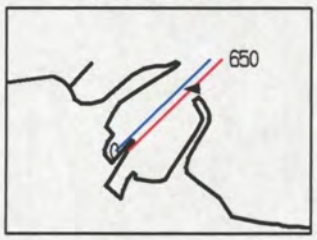


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

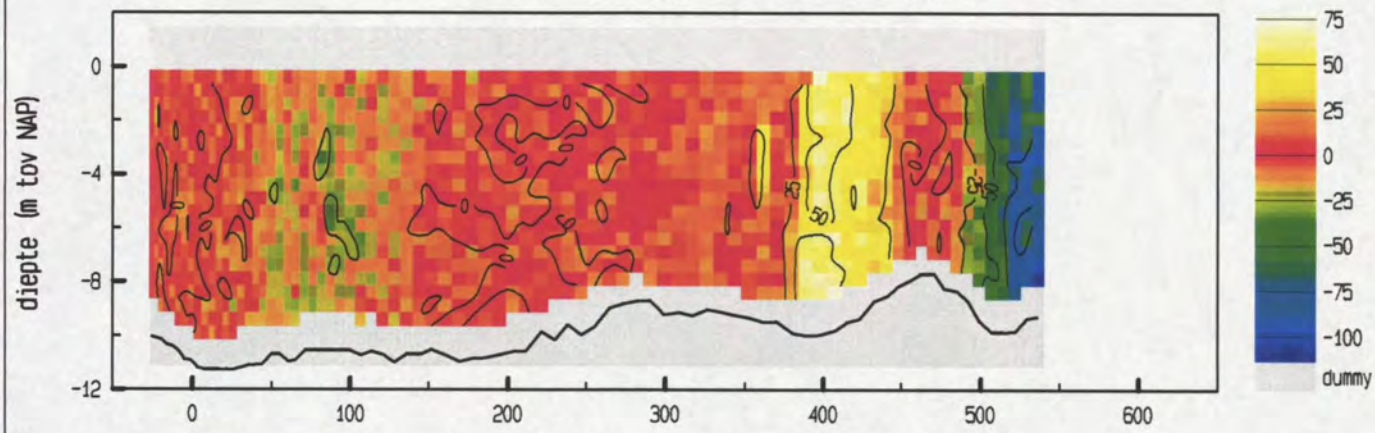
afstand uit nulpunt : 436 m
stroomsnelheid : 36 cm/sec
stroomrichting : 268 °

doorstroomoppervlak : 5246 m^2
raaidebiet : 91 m^3/sec

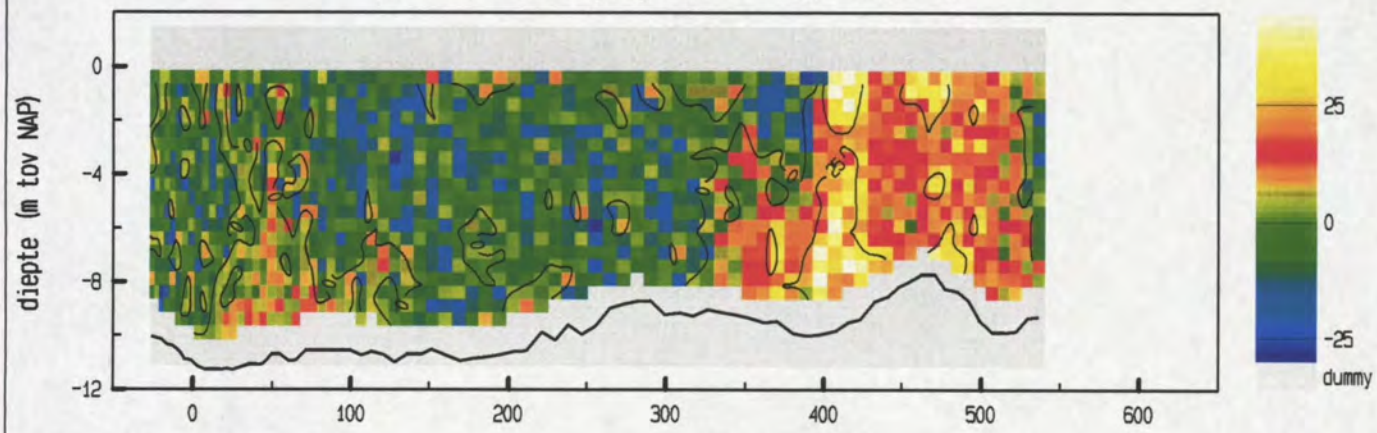
adcpfile : data/gevalid/1826/ln/1826017a.val

Veerhaven Breskens20 mei 1997 tijd : 2358 - 0002
adcpfile : data/gevalid/1826/ln/1826023a.val

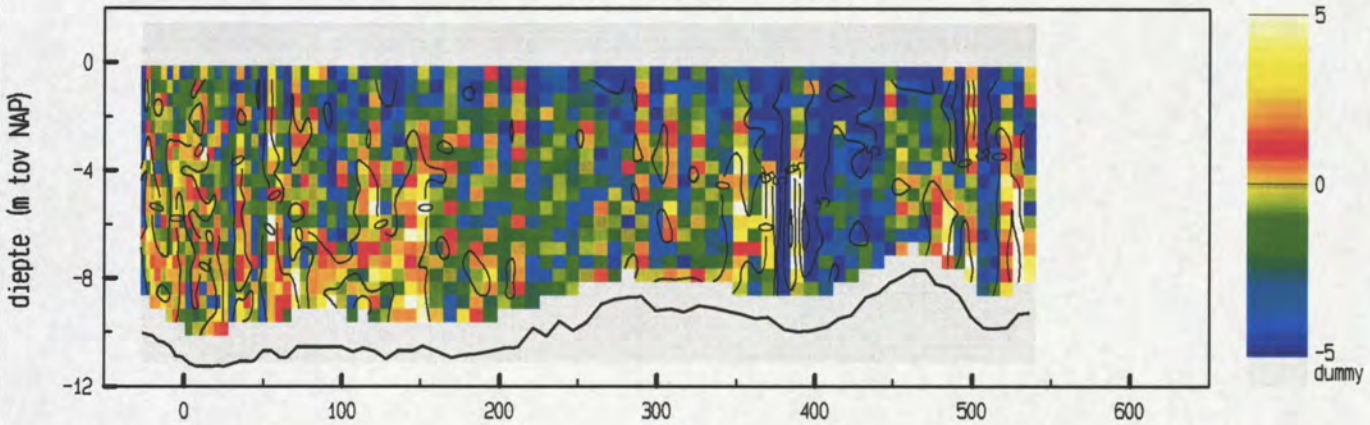
snelheid loodrecht op de raai (cm/sec)

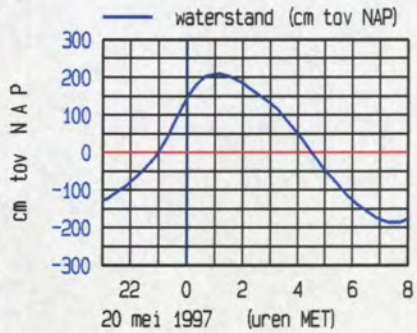


snelheid evenwijdig aan de raai (cm/sec)

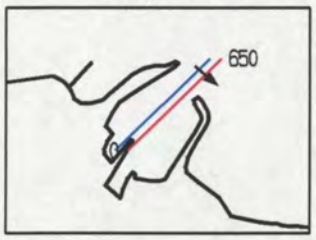


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

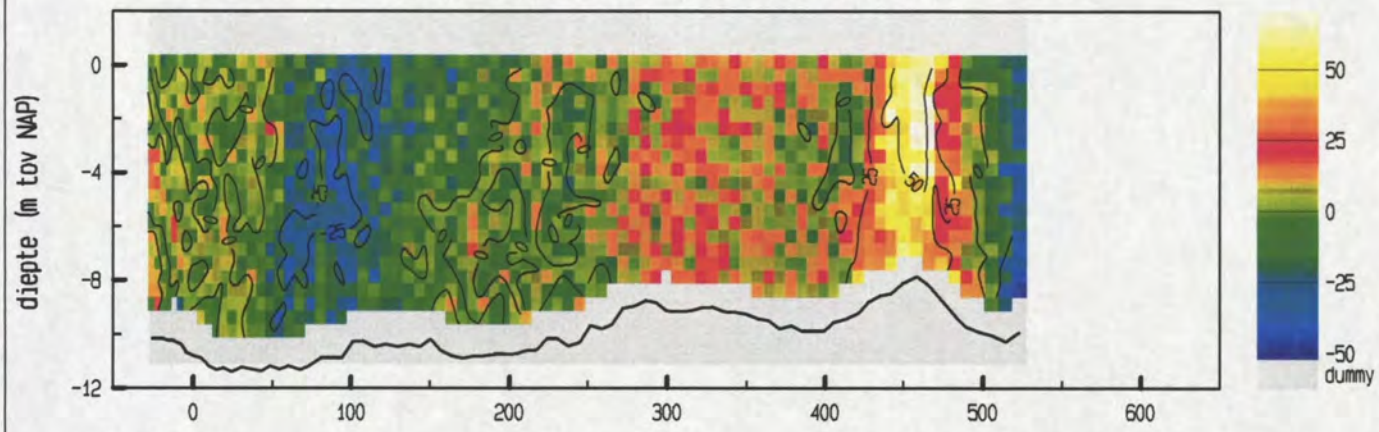
afstand uit nulpunt : 537 m
stroomsnelheid : 81 cm/sec
stroomrichting : 130 °

doorstroomoppervlak : 6432 m^2
raaidebiet : -39 m^3/sec

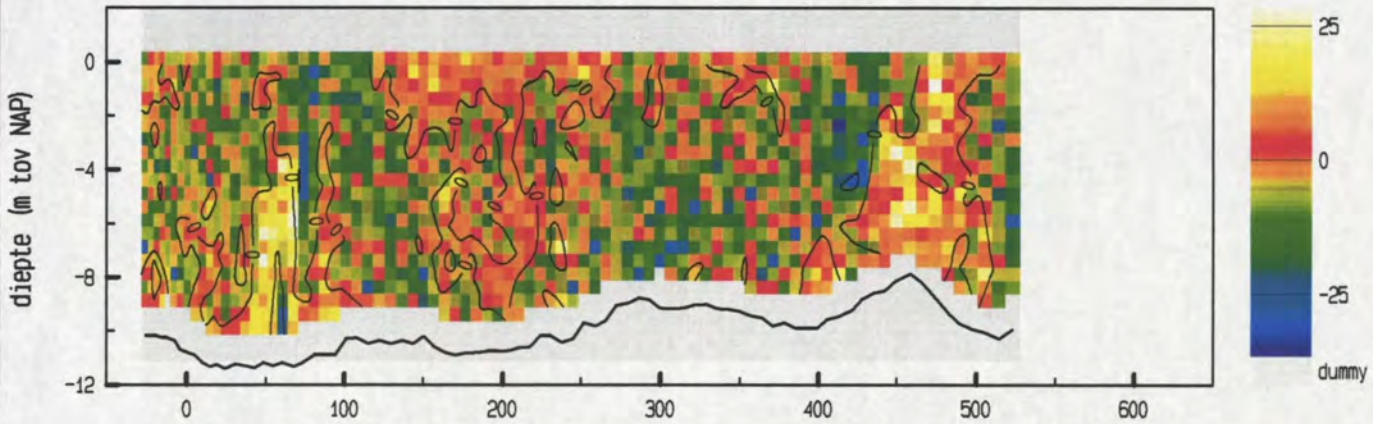
adcpfile : data/gevalid/1826/ln/1826023a.val

Veerhaven Breskens21 mei 1997 tijd : 0035 - 0040
adcpfile : data/gevalid/1826/ln/1826029a.val

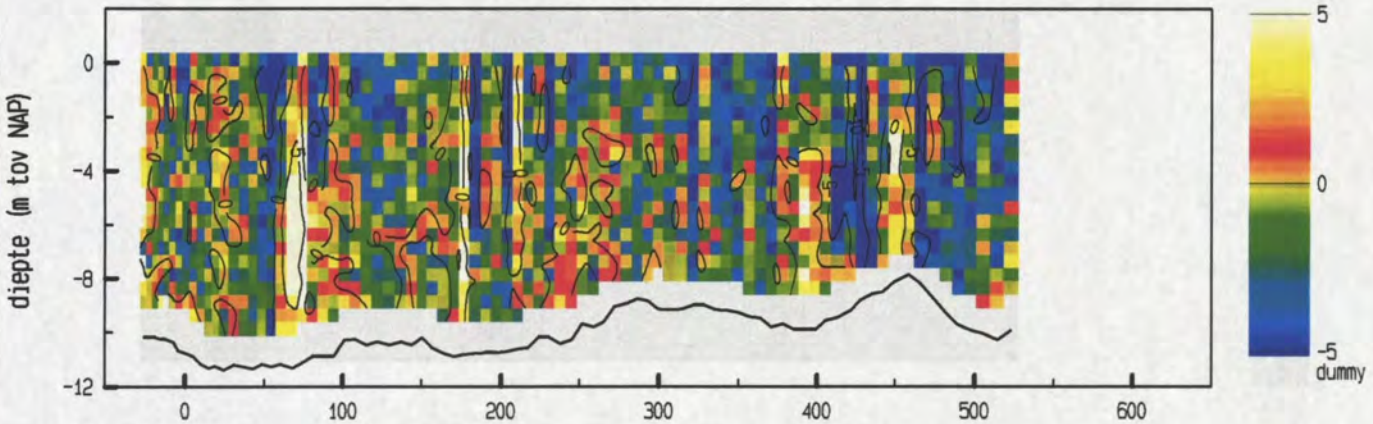
snelheid loodrecht op de raai (cm/sec)

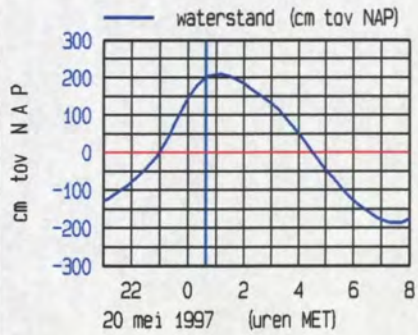


snelheid evenwijdig aan de raai (cm/sec)

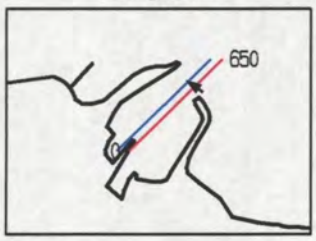


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

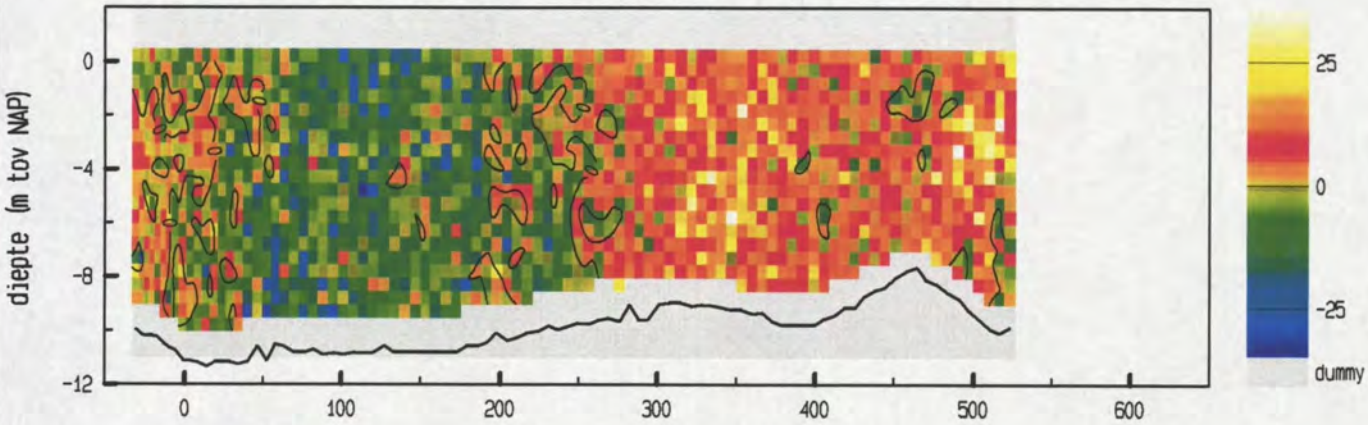
afstand uit nulpunt : 458 m
stroomsnelheid : 54 cm/sec
stroomrichting : 306 °

doorstroomoppervlak : 6657 m^2
raaidebiet : 164 m^3/sec

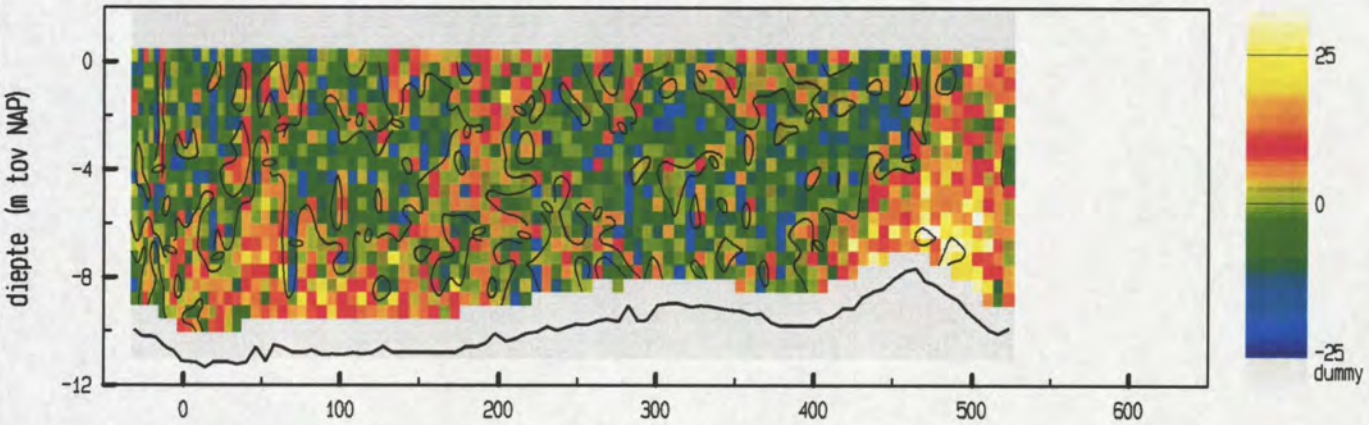
adcpfile : data/gevalid/1826/ln/1826029a.val

Veerhaven Breskens21 mei 1997 tijd : 0112 - 0117
adcpfile : data/gevalid/1826/ln/1826035a.val

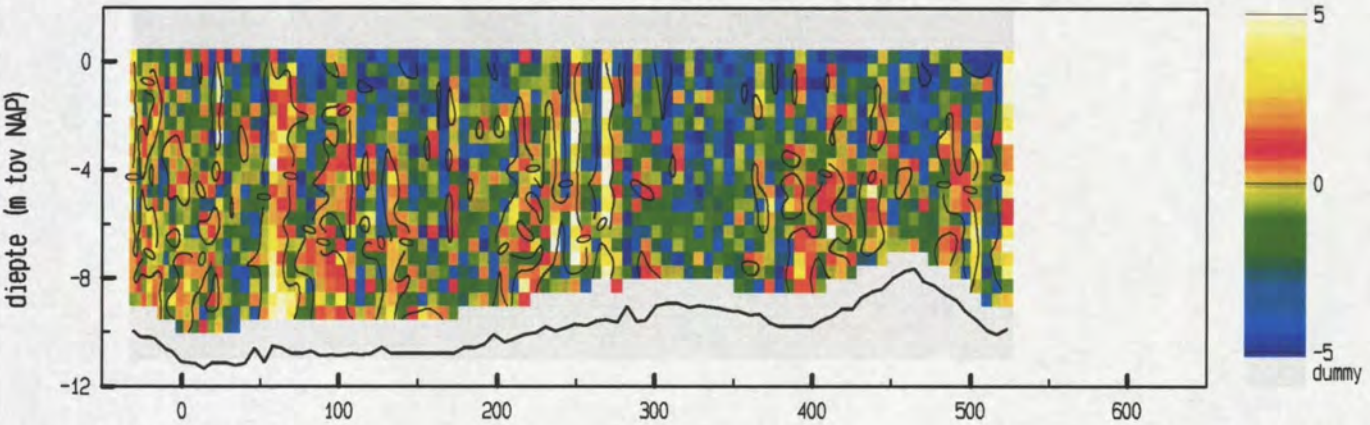
snelheid loodrecht op de raai (cm/sec)

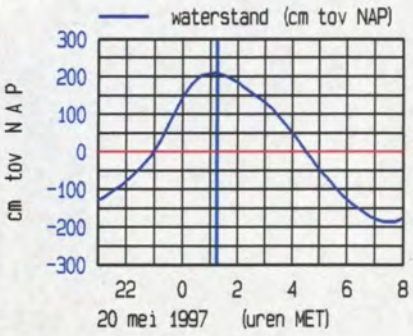


snelheid evenwijdig aan de raai (cm/sec)

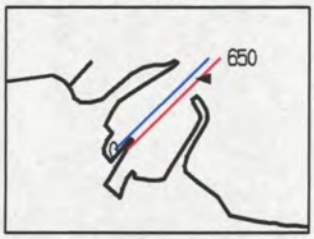


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

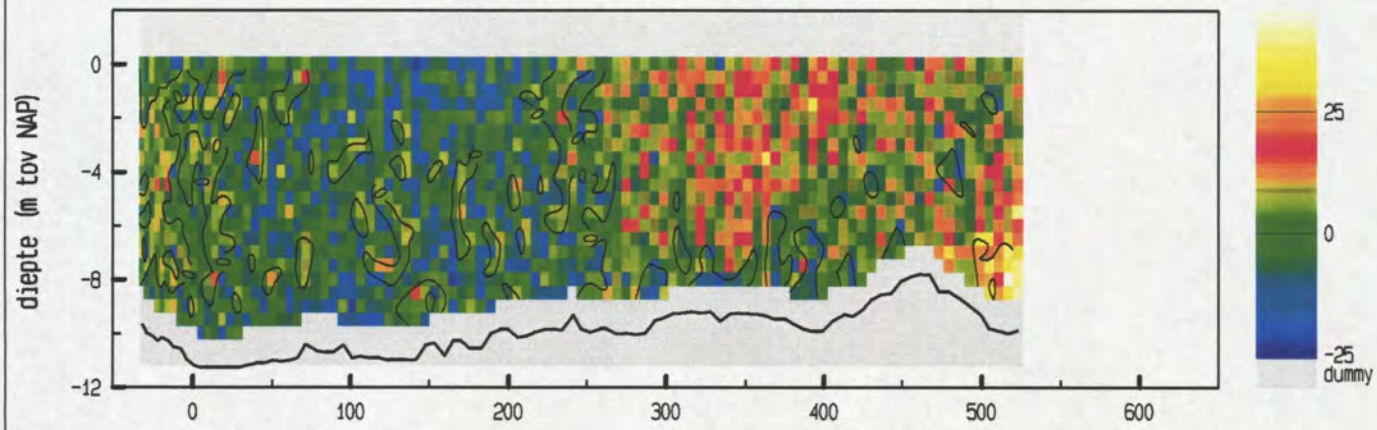
afstand uit nulpunt : 504 m
stroomsnelheid : 20 cm/sec
stroomrichting : 270 °

doorstroomoppervlak : 6715 m^2
raaidebiet : 75 m^3/sec

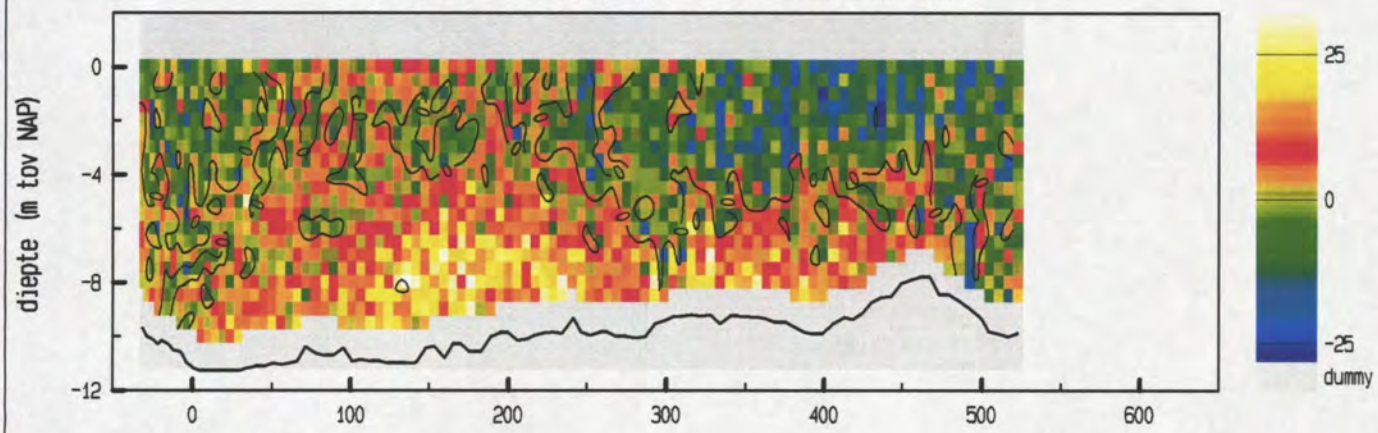
adcpfile : data/gevalid/1826/ln/1826035a.val

Veerhaven Breskens21 mei 1997 tijd : 0148 - 0154
adcpfile : data/gevalid/1826/ln/1826041a.val

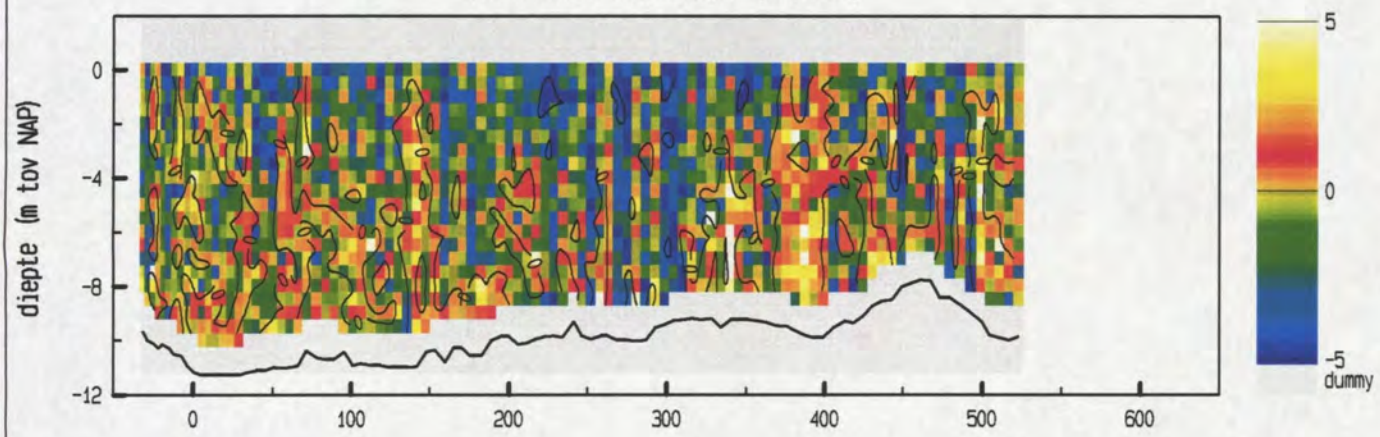
snelheid loodrecht op de raai (cm/sec)

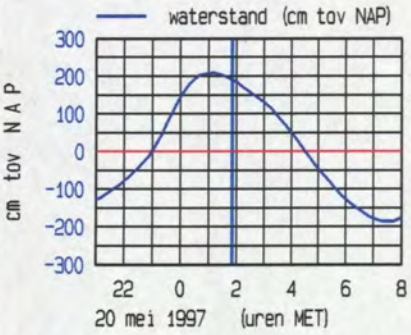


snelheid evenwijdig aan de raai (cm/sec)

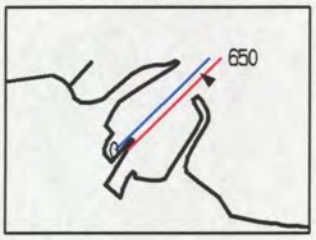


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt : 523 m
stroomsnelheid : 19 cm/sec
stroomrichting : 309 °

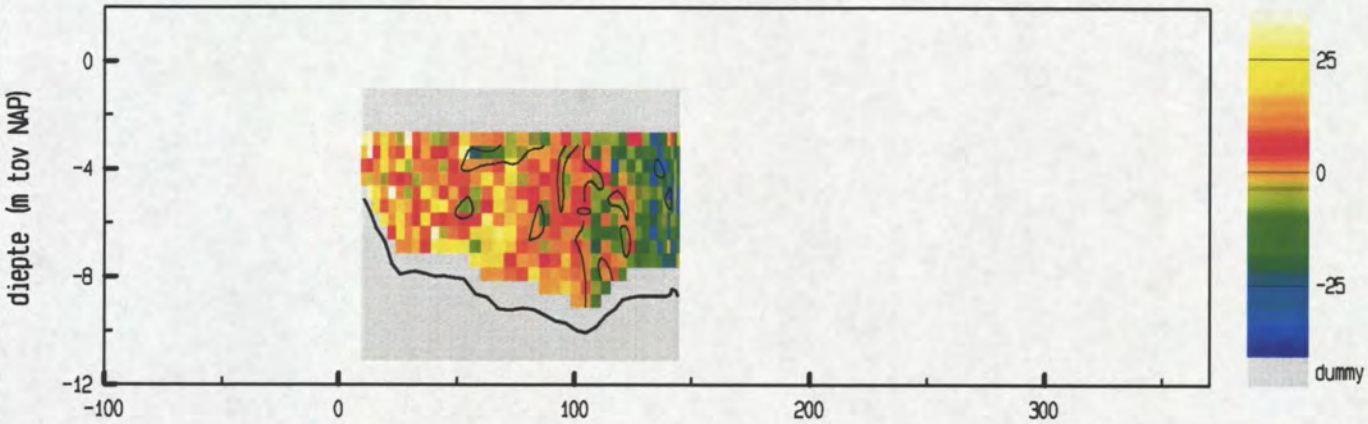
doorstroomoppervlak : 6611 m^2
raaidebiet : 78 m^3/sec

adcpfile : data/gevalid/1826/ln/1826041a.val

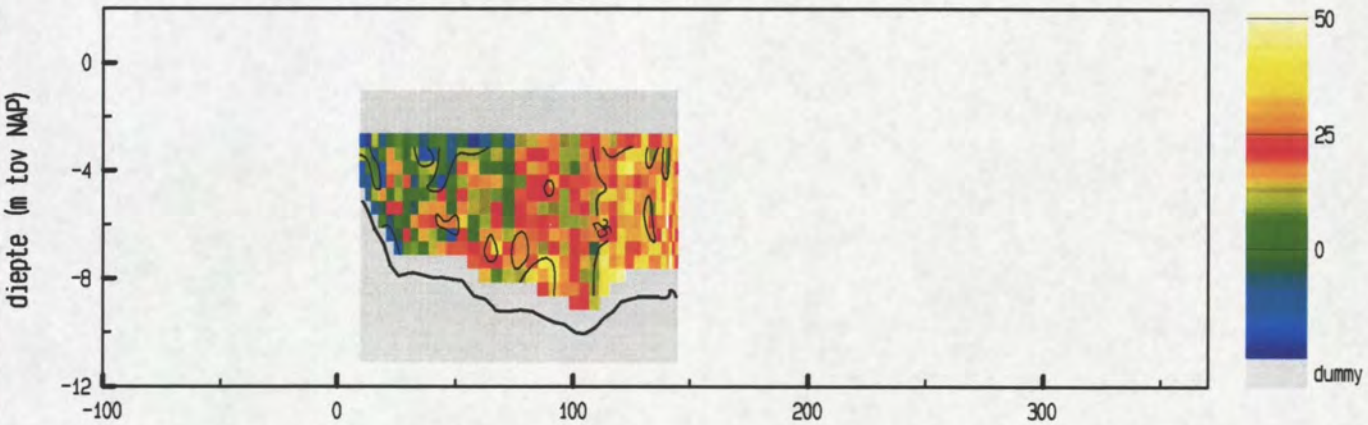
24c. Ontbonden gegevens raai-2.

Veerhaven Breskens20 mei 1997 tijd : 2134 - 2137
adcpfile : data/gevalid/1826/dw/1826007a.val

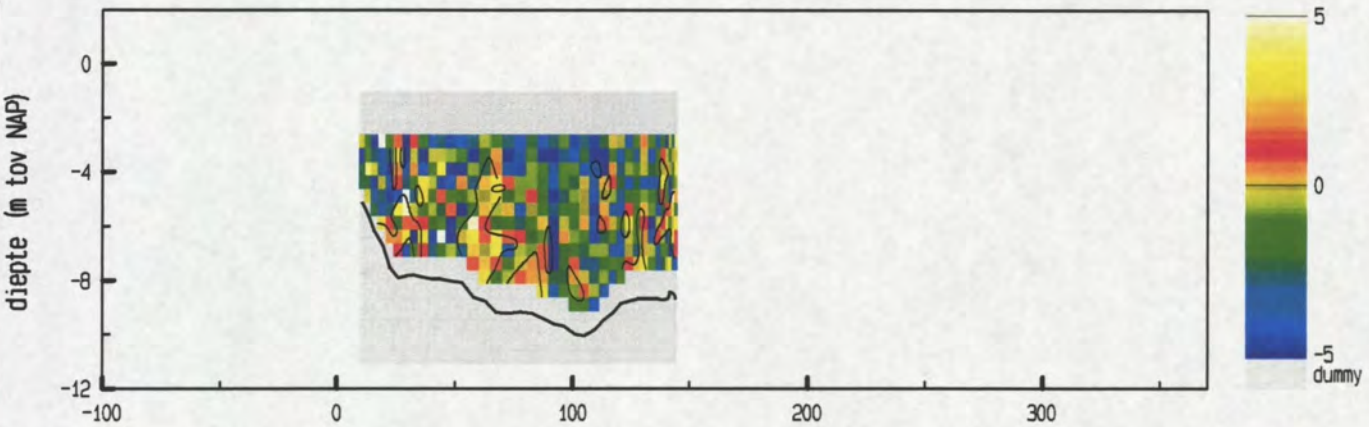
snelheid loodrecht op de raai (cm/sec)

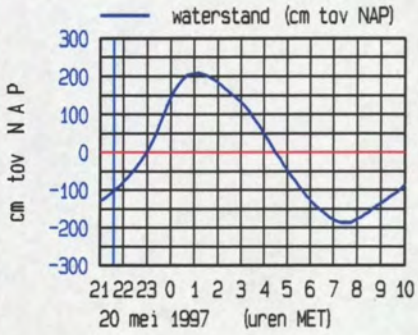


snelheid evenwijdig aan de raai (cm/sec)

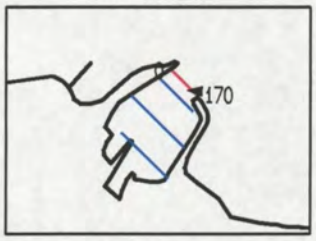


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

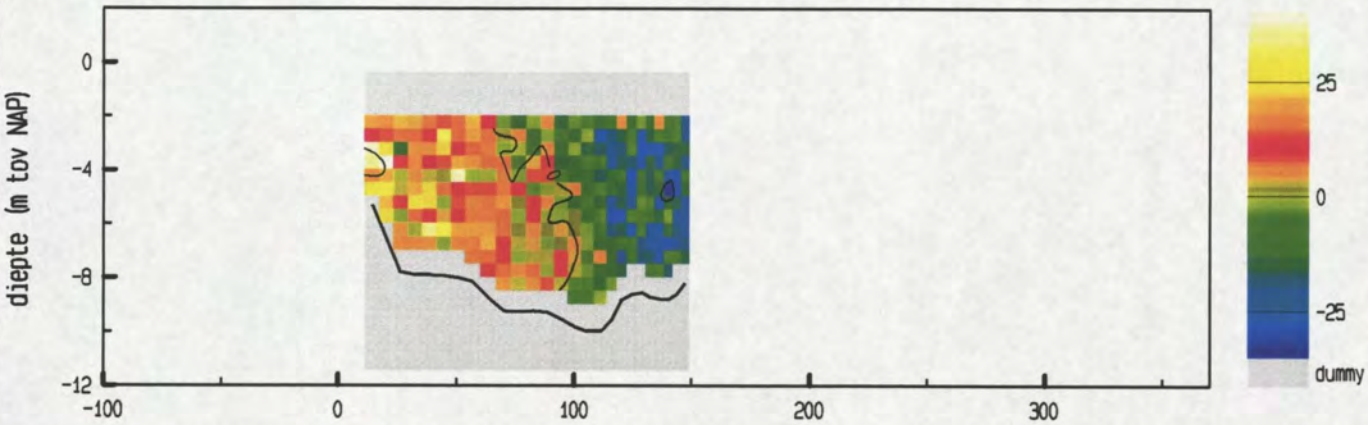
afstand uit nulpunt : 143 m
stroomsnelheid : 34 cm/sec
stroomrichting : 275 °

doorstroomoppervlak : 1024 m^2
raaidebiet : 34 m^3/sec

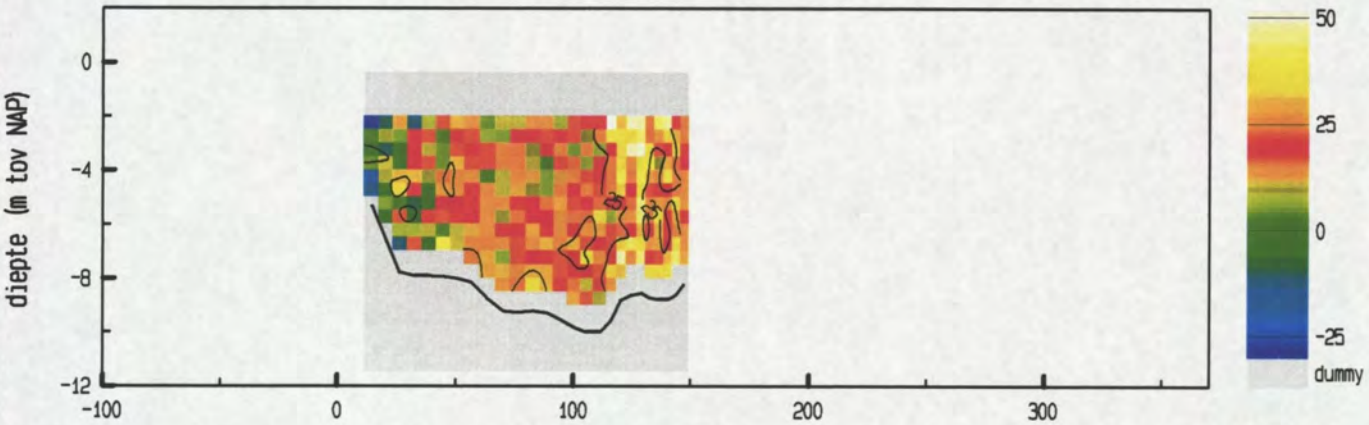
adcpfile : data/gevalid/1826/dw/1826007a.val

Veerhaven Breskens20 mei 1997 tijd : 2235 - 2236
adcpfile : data/gevalid/1826/dw/1826013a.val

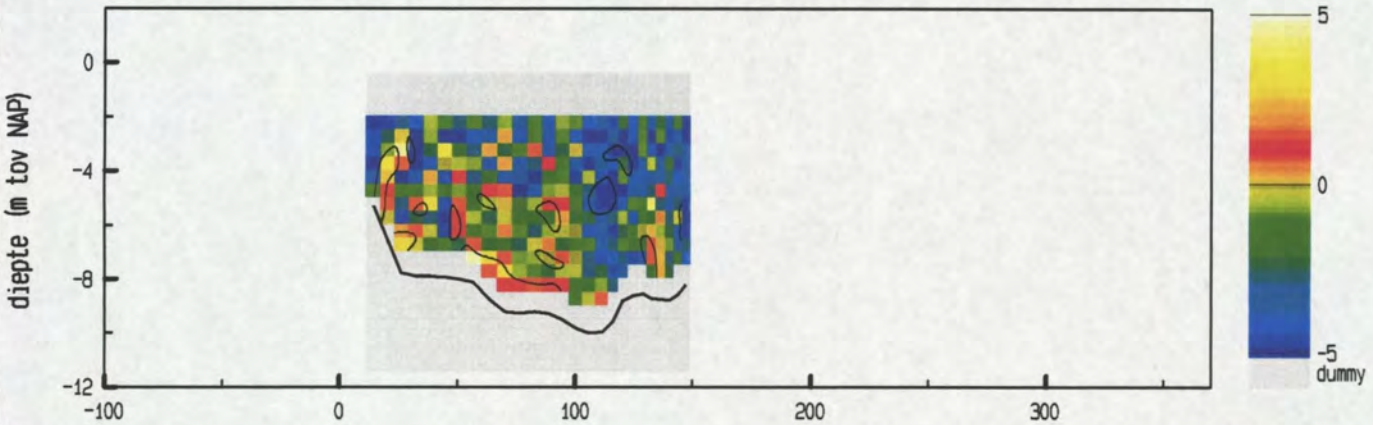
snelheid loodrecht op de raai (cm/sec)

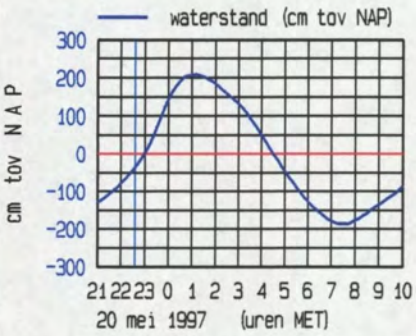


snelheid evenwijdig aan de raai (cm/sec)

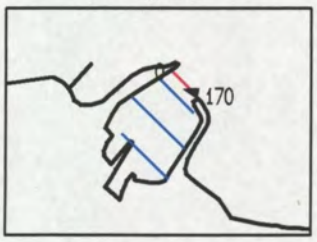


vertikale snelheid (cm/sec)





meetgebied



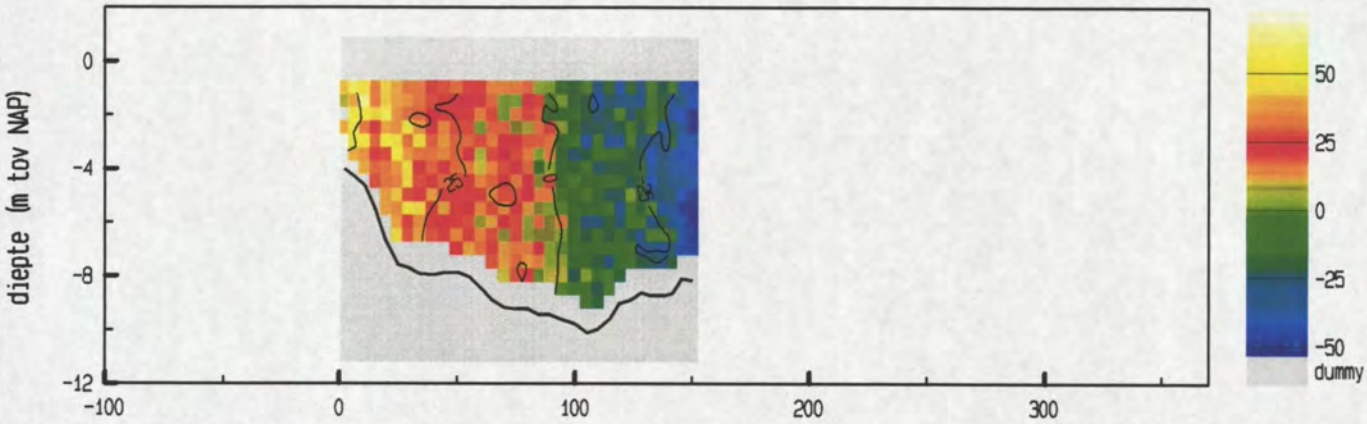
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	129 m
stroomsnelheid	:	41 cm/sec
stroomrichting	:	285 °
doorstroomoppervlak	:	1131 m^2
raaidebiet	:	16 m^3/sec

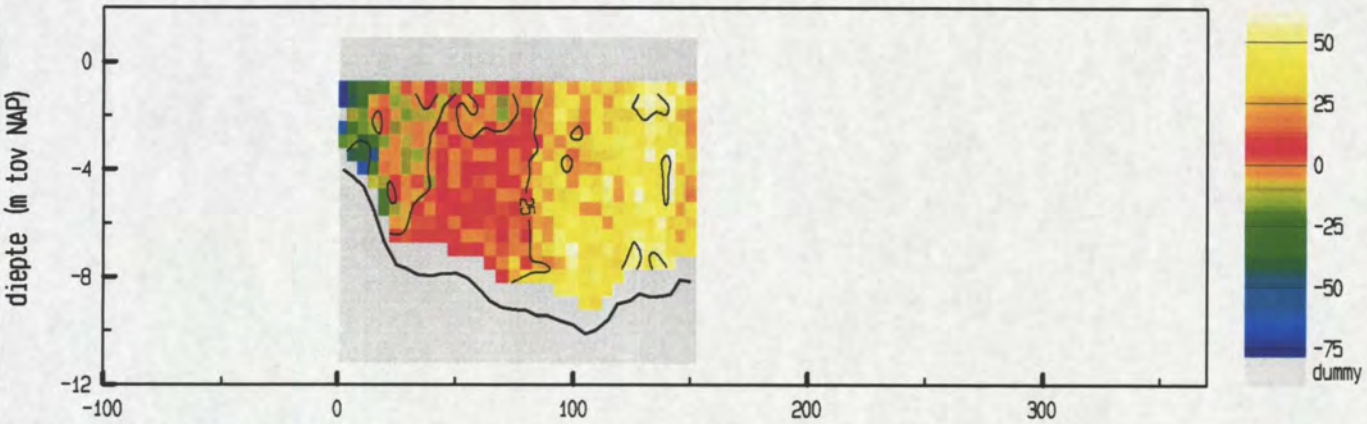
adcpfile : data/gevalid/1826/dw/1826013a.val

Veerhaven Breskens20 mei 1997 tijd : 2336 - 2338
adcpfile : data/gevalid/1826/dw/1826019a.val

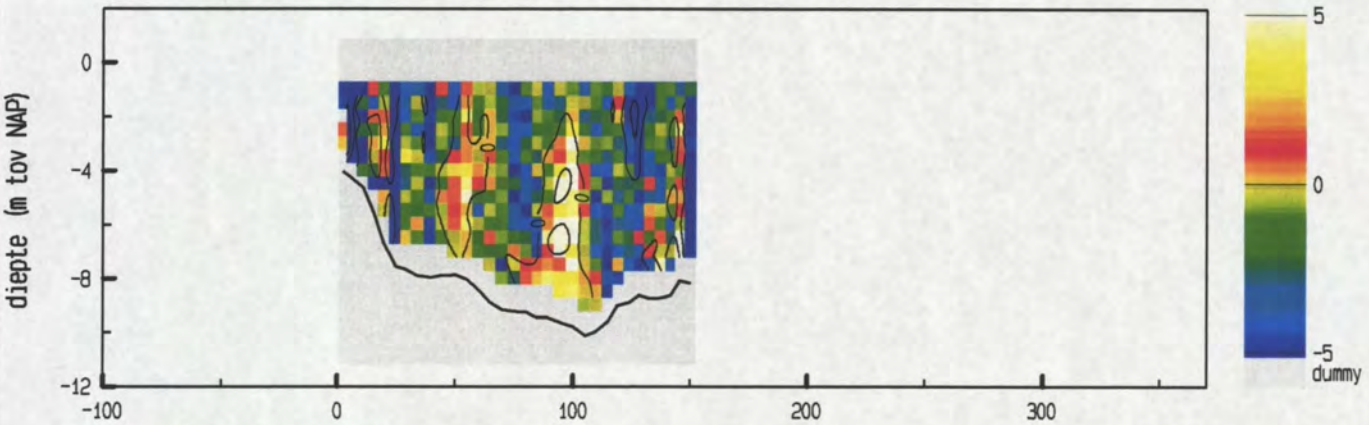
snelheid loodrecht op de raai (cm/sec)

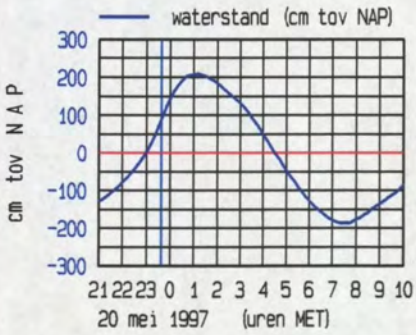


snelheid evenwijdig aan de raai (cm/sec)

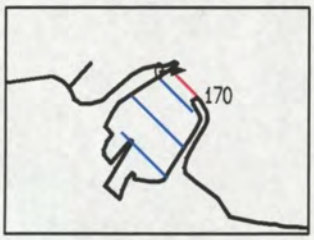


vertikale snelheid (cm/sec)





meetgebied



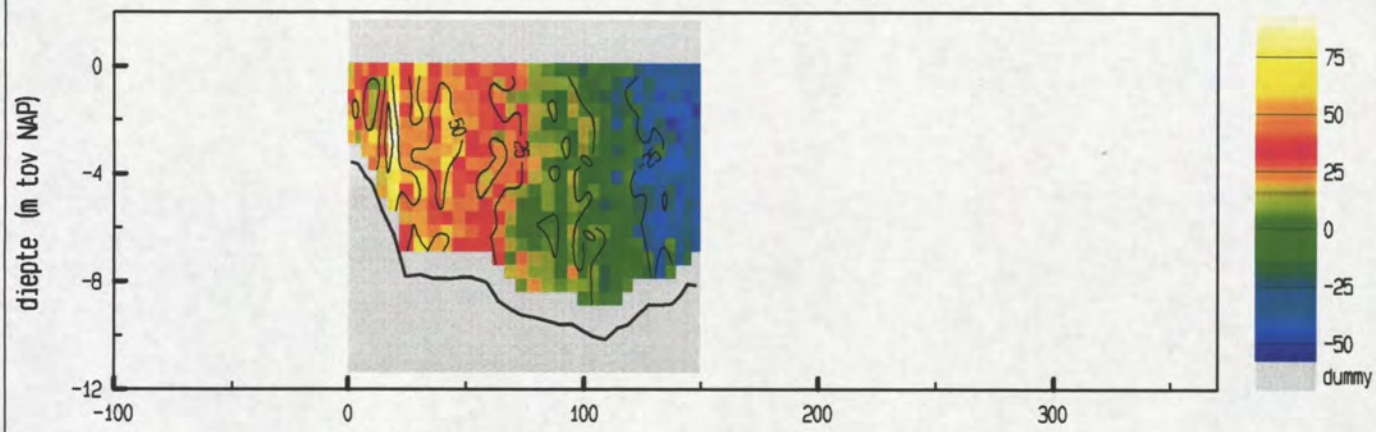
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	2 m
stroomsnelheid	:	71 cm/sec
stroomrichting	:	86 °
doorstroomoppervlak	:	1390 m^2
raaidebiet	:	75 m^3/sec

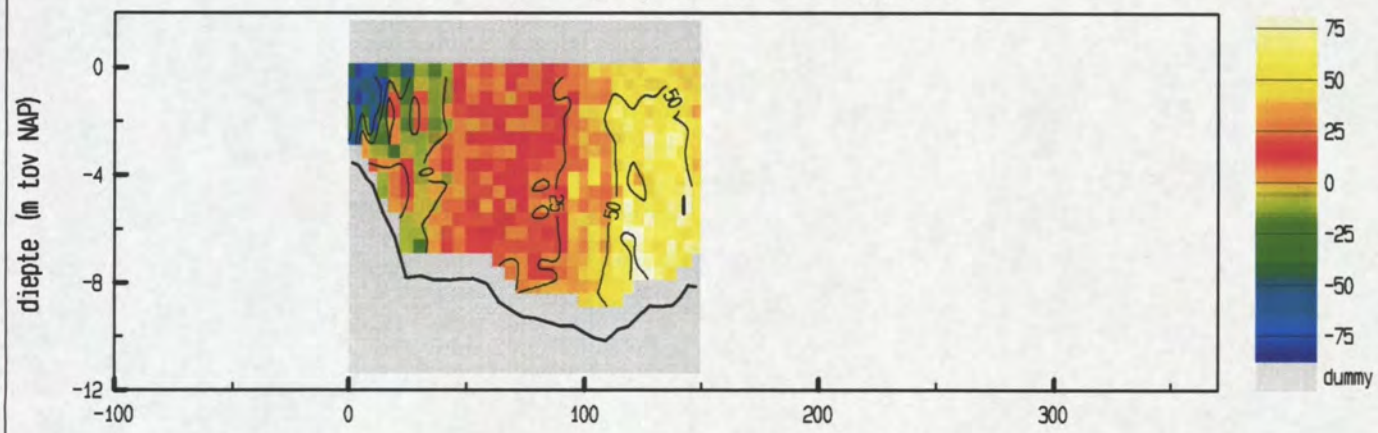
adcpfile : data/gevalid/1826/dw/1826019a.val

Veerhaven Breskens21 mei 1997 tijd : 0014 - 0016
adcpfile : data/gevalid/1826/dw/1826025a.val

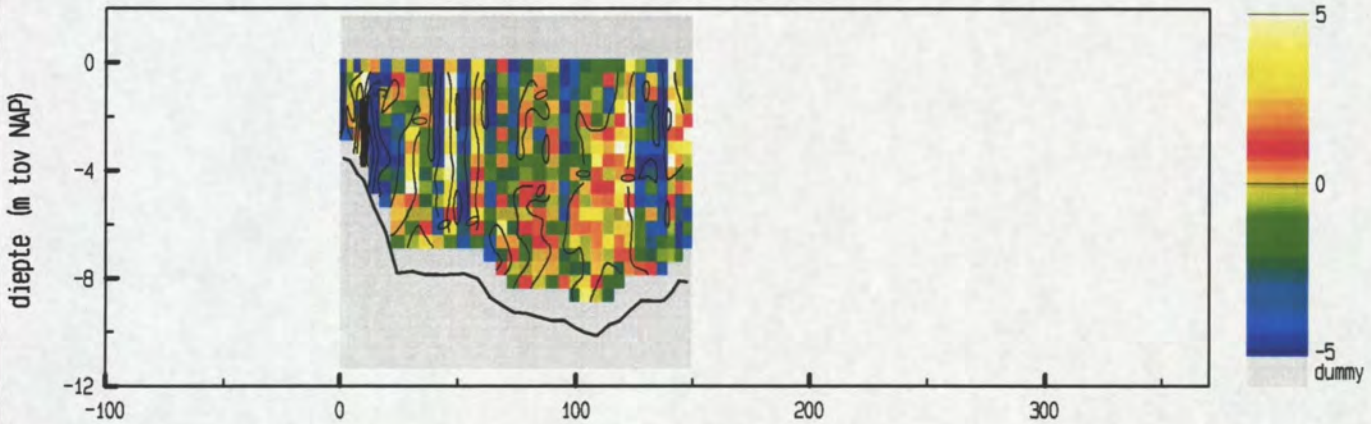
snelheid loodrecht op de raai (cm/sec)

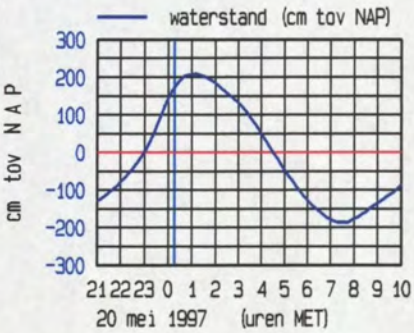


snelheid evenwijdig aan de raai (cm/sec)

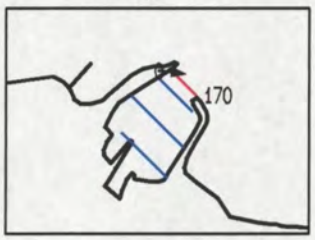


vertikale snelheid (cm/sec)





meetgebied



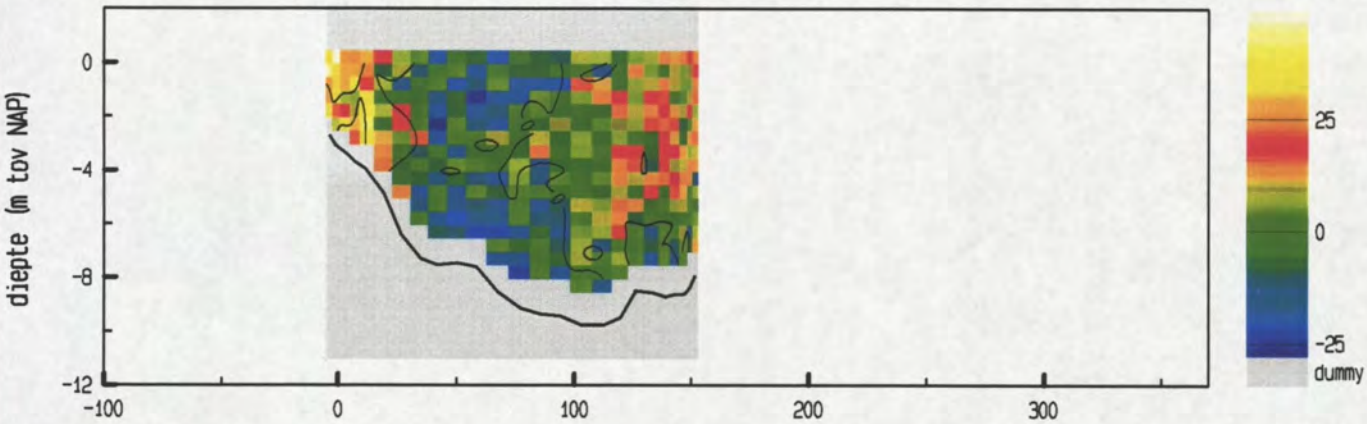
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	4 m
stroomsnelheid	:	74 cm/sec
stroomrichting	:	97 °
doorstroomoppervlak	:	1492 m^2
raaidebiet	:	173 m^3/sec

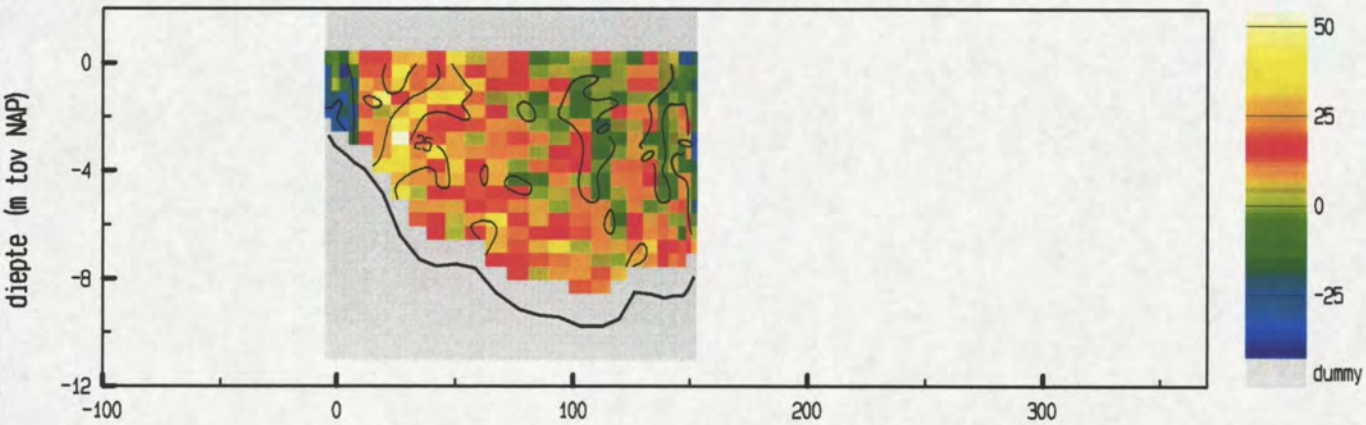
adcpfile : data/gevalid/1826/dw/1826025a.val

Veerhaven Breskens21 mei 1997 tijd : 0050 - 0051
adcpfile : data/gevalid/1826/dw/1826031a.val

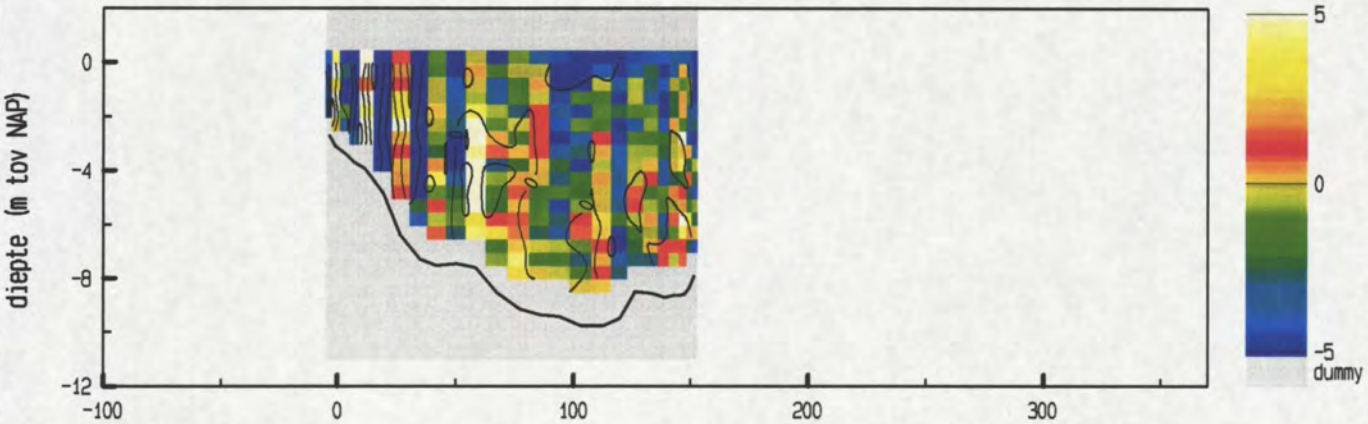
snelheid loodrecht op de raai (cm/sec)

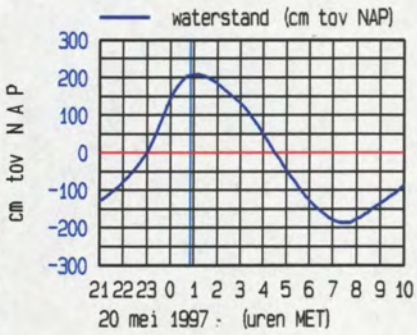


snelheid evenwijdig aan de raai (cm/sec)

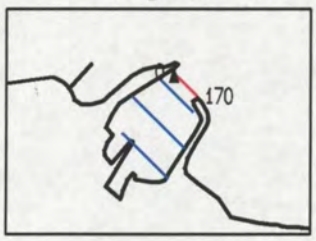


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

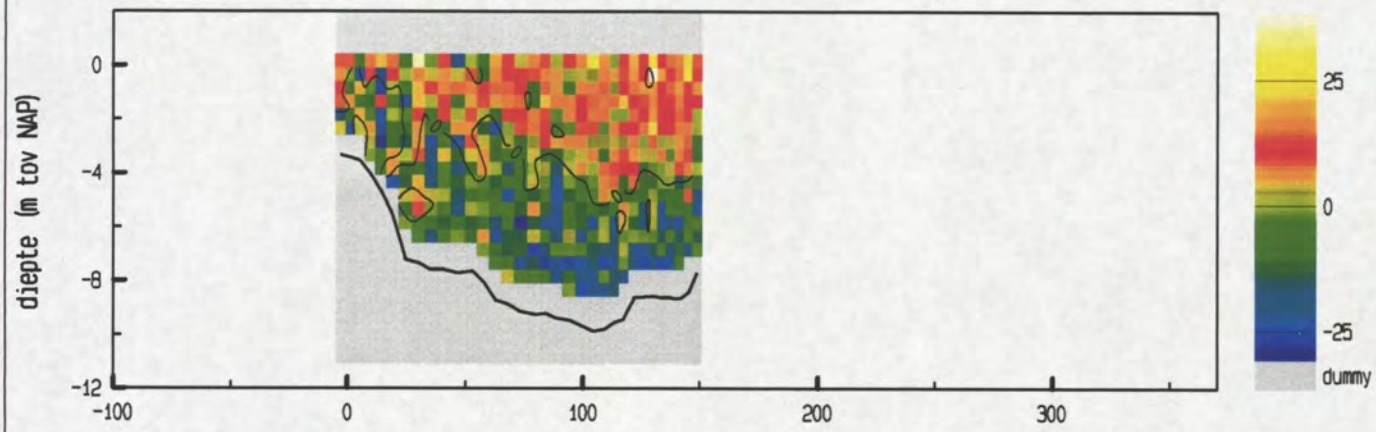
afstand uit nulpunt : 11 m
stroomsnelheid : 34 cm/sec
stroomrichting : 359 °

doorstroomoppervlak : 1538 m^2
raaidebiet : 21 m^3/sec

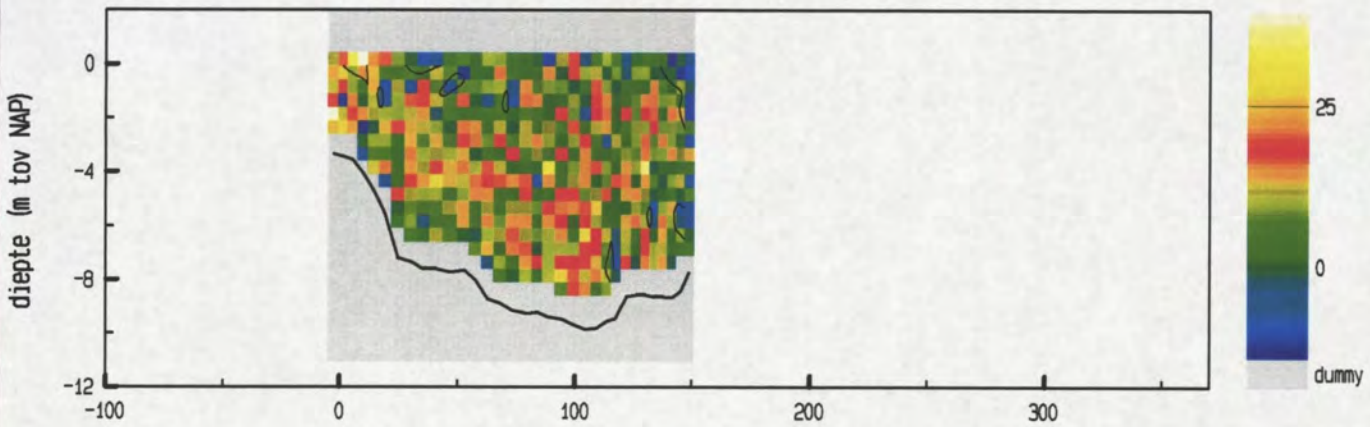
adcpfile : data/gevalid/1826/dw/1826031a.val

Veerhaven Breskens21 mei 1997 tijd : 0128 - 0130
adcpfile : data/gevalid/1826/dw/1826037a.val

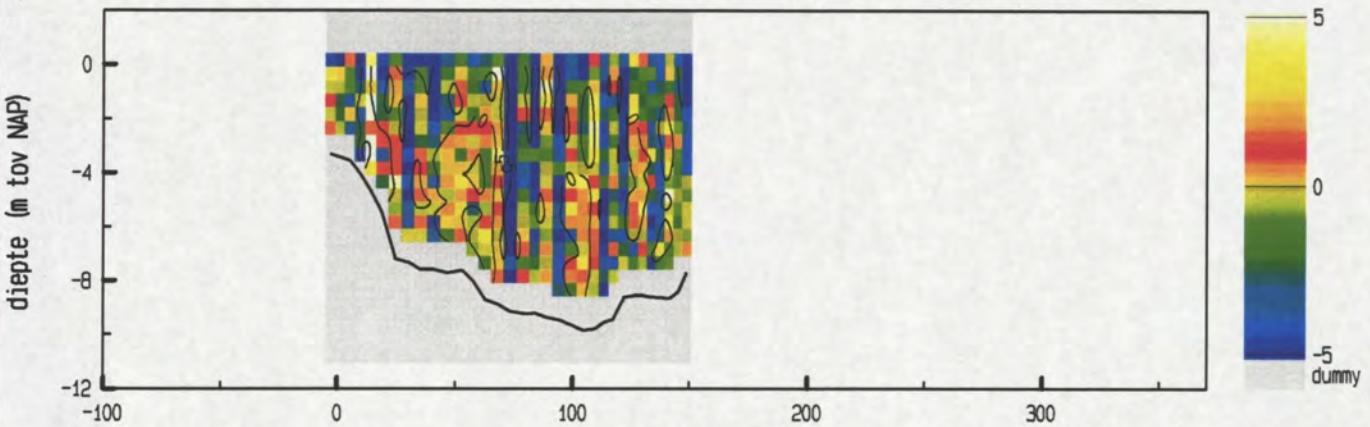
snelheid loodrecht op de raai (cm/sec)

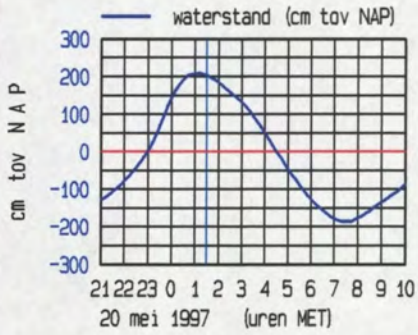


snelheid evenwijdig aan de raai (cm/sec)

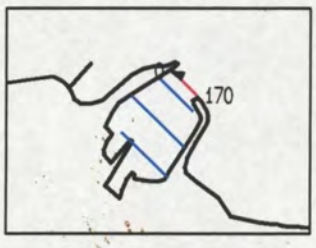


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt : 5 m
stroomsnelheid : 21 cm/sec
stroomrichting : 293 °

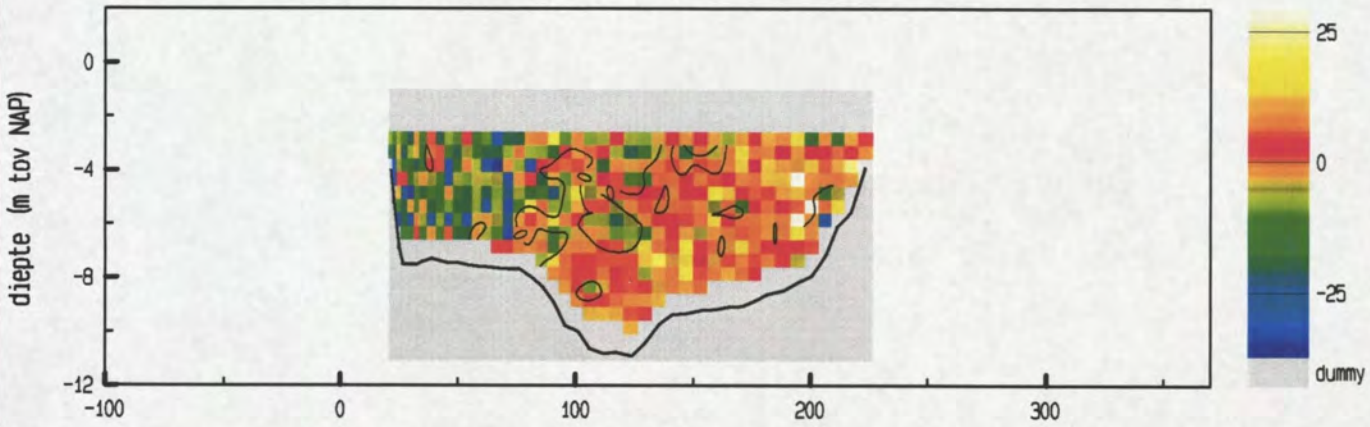
doorstroomoppervlak : 1539 m^2
raaidebiet : 0 m^3/sec

adcpfile : data/gevalid/1826/dw/1826037a.val

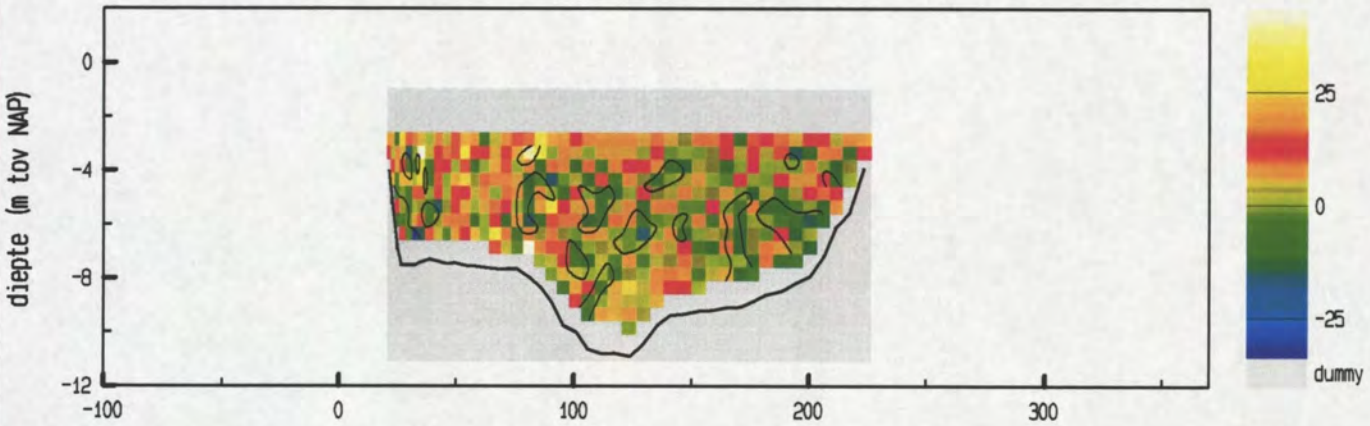
24d. Ontbonden gegevens raai-3.

Veerhaven Breskens20 mei 1997 tijd : 2138 - 2141
adcpfile : data/gevalid/1826/dw/1826008a.val

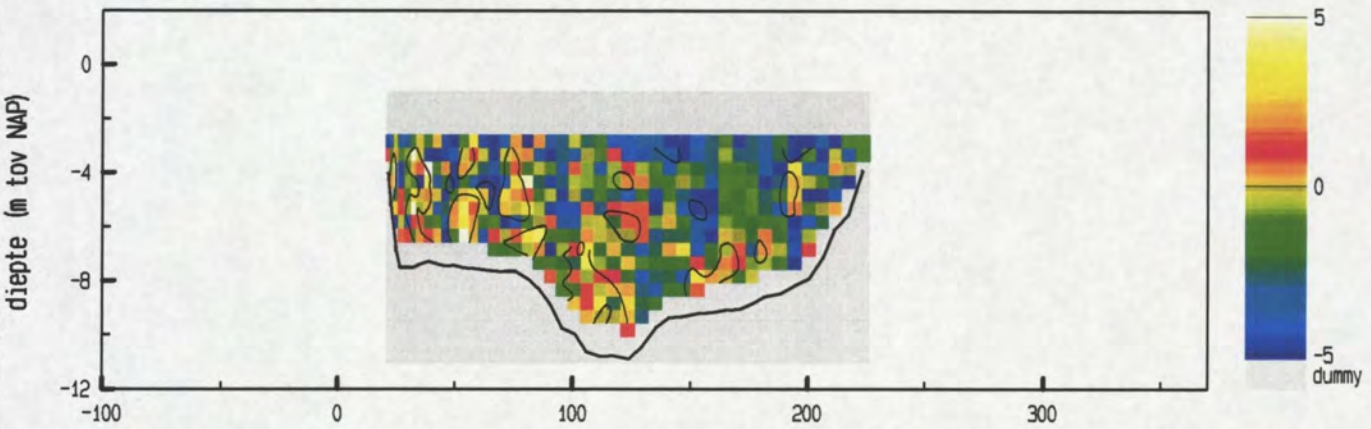
snelheid loodrecht op de raai (cm/sec)

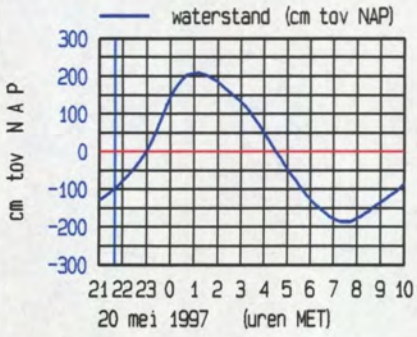


snelheid evenwijdig aan de raai (cm/sec)

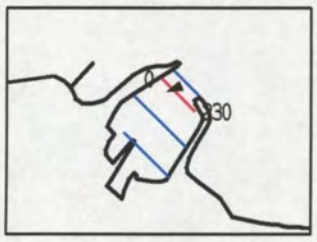


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

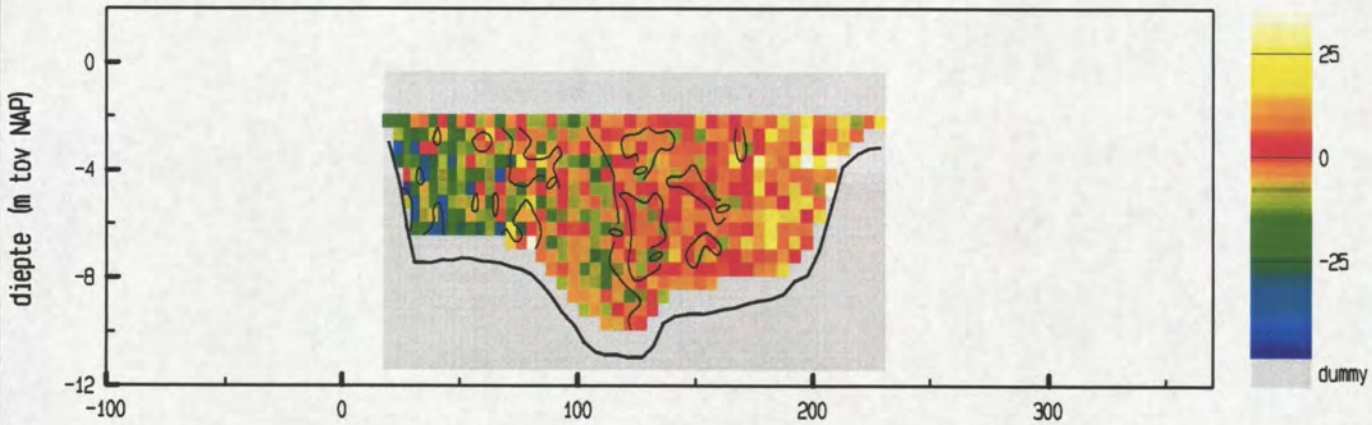
afstand uit nulpunt : 71 m
stroomsnelheid : 20 cm/sec
stroomrichting : 247 °

doorstroomoppervlak : 1524 m^2
raaidebiet : -11 m^3/sec

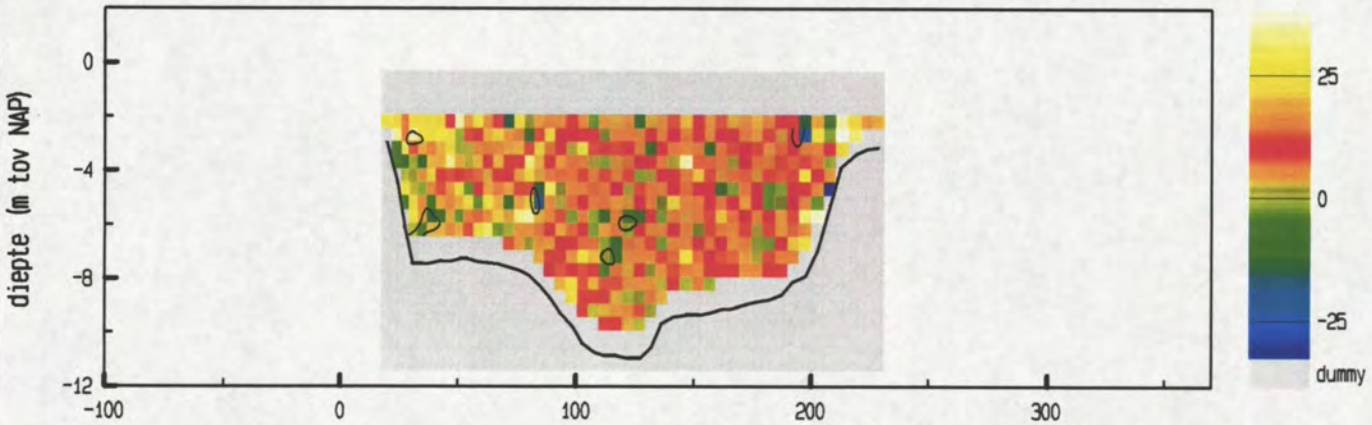
adcpfile : data/gevalid/1826/dw/1826008a.val

Veerhaven Breskens20 mei 1997 tijd : 2238 - 2240
adcpfile : data/gevalid/1826/dw/1826014a.val

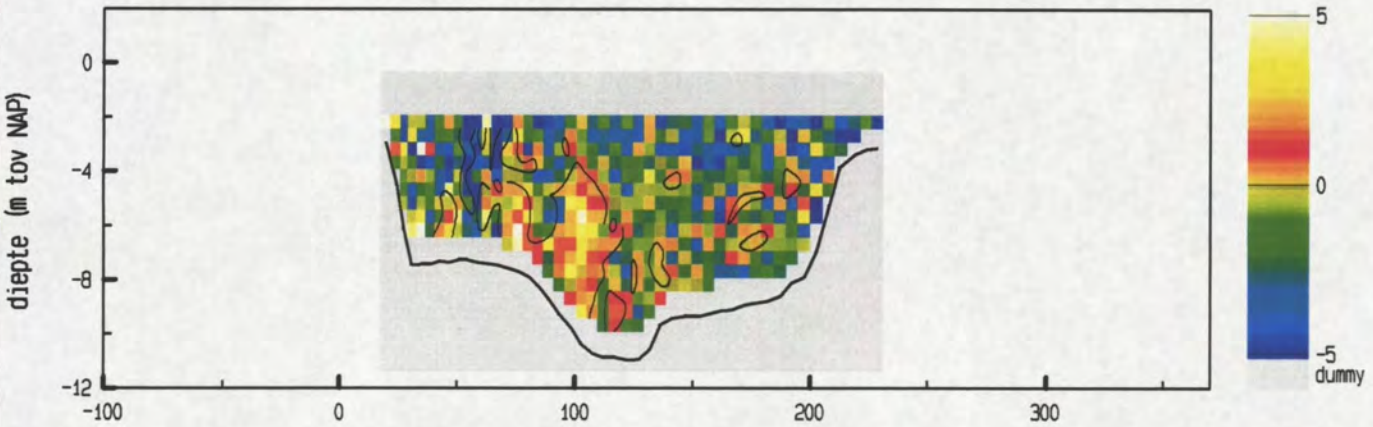
snelheid loodrecht op de raai (cm/sec)

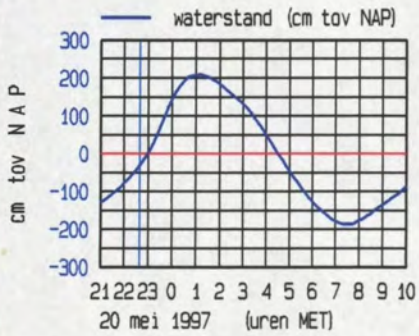


snelheid evenwijdig aan de raai (cm/sec)

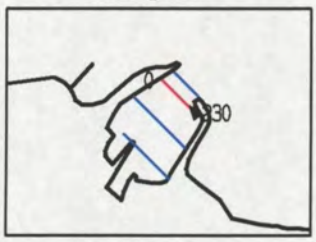


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

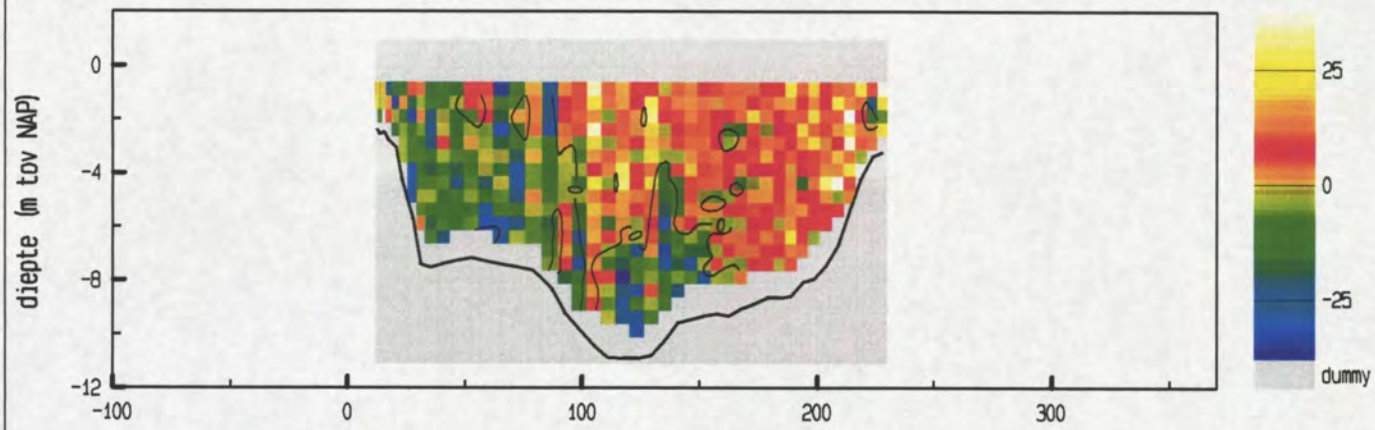
afstand uit nulpunt : 213 m
stroomsnelheid : 32 cm/sec
stroomrichting : 322 °

doorstroomoppervlak : 1633 m^2
raaidebiet : -7 m^3/sec

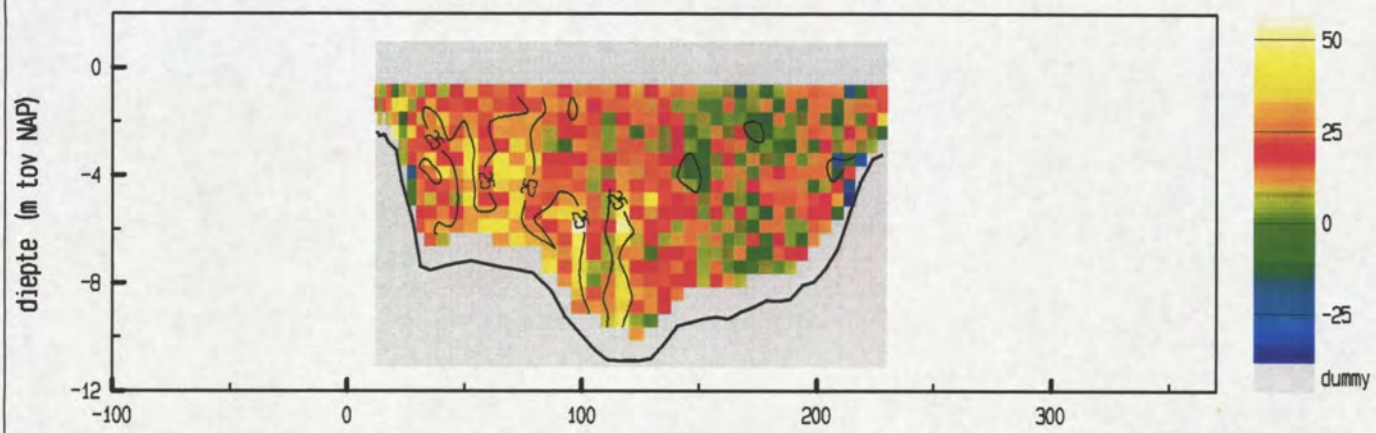
adcpfile : data/gevalid/1826/dw/1826014a.val

Veerhaven Breskens20 mei 1997 tijd : 2339 - 2341
adcpfile : data/gevalid/1826/dw/1826020a.val

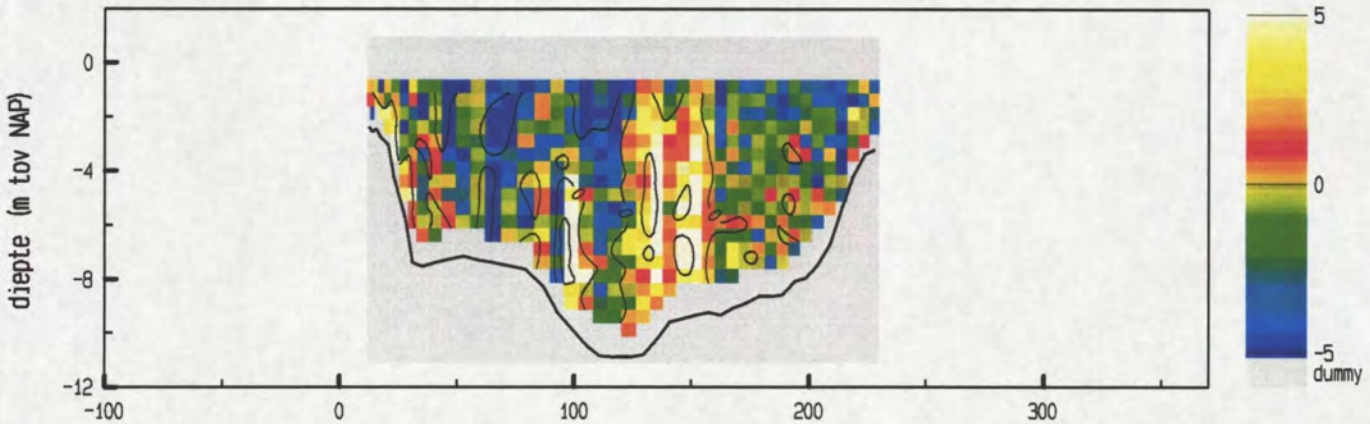
snelheid loodrecht op de raai (cm/sec)

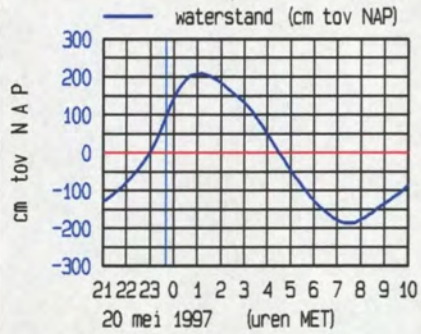


snelheid evenwijdig aan de raai (cm/sec)

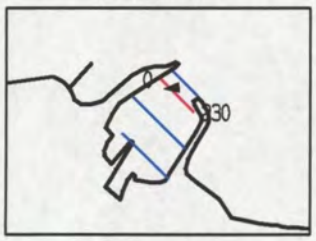


vertikale snelheid (cm/sec)





meetgebied



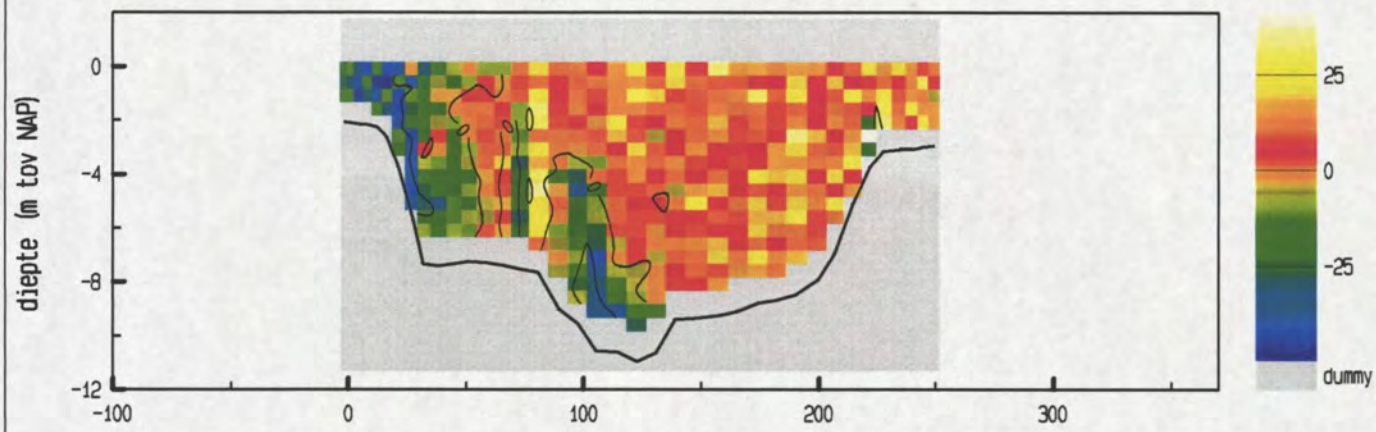
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	65 m
stroomsnelheid	:	35 cm/sec
stroomrichting	:	265 °
doorstroomoppervlak	:	1946 m^2
raaidebiet	:	10 m^3/sec

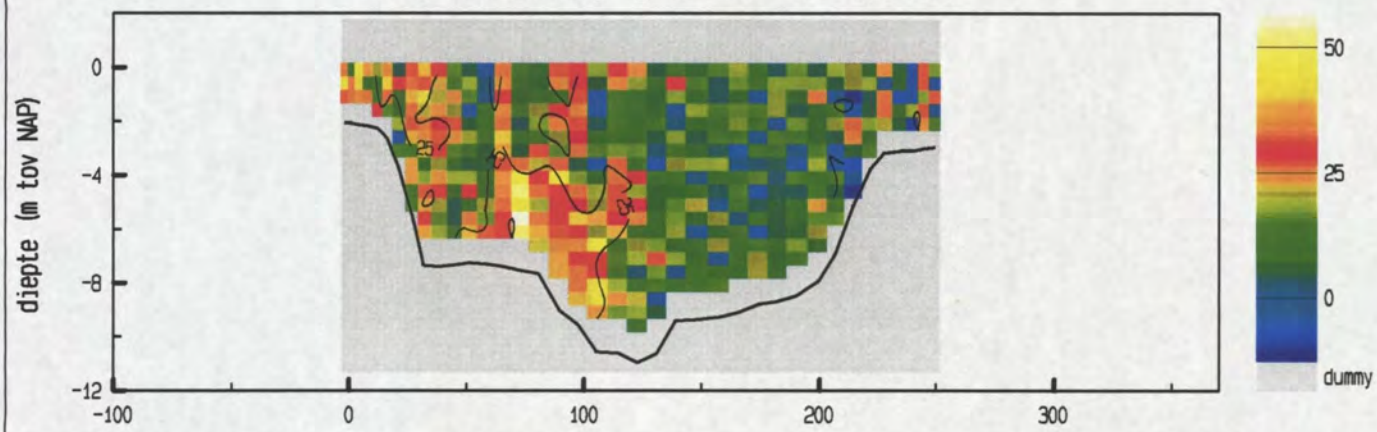
adcpfile : data/gevalid/1826/dw/1826020a.val

Veerhaven Breskens21 mei 1997 tijd : 0016 - 0019
adcpfile : data/gevalid/1826/dw/1826026a.val

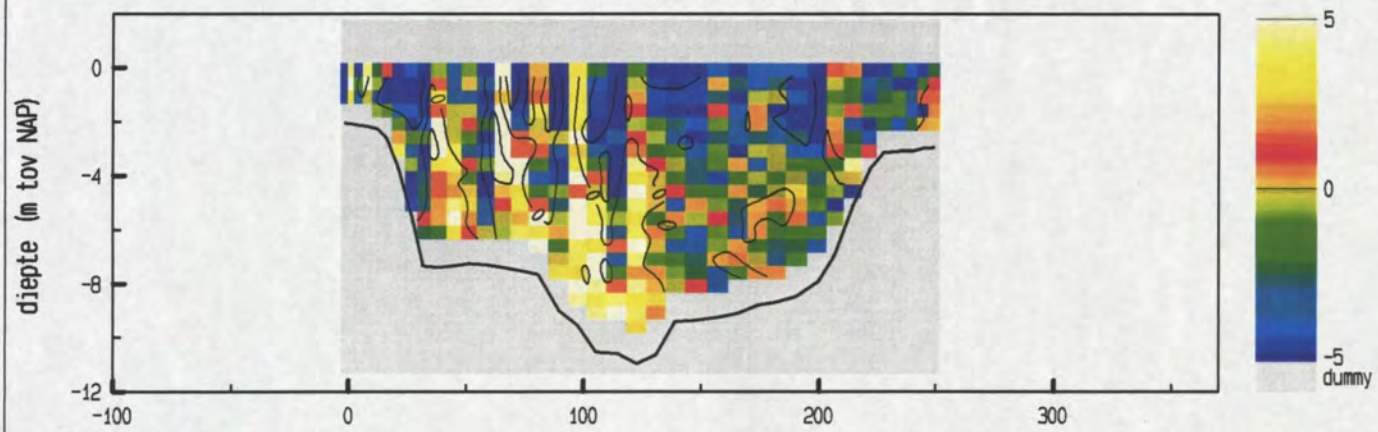
snelheid loodrecht op de raai (cm/sec)

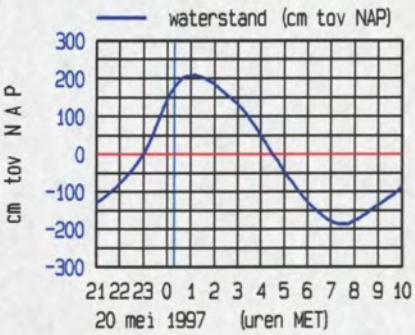


snelheid evenwijdig aan de raai (cm/sec)

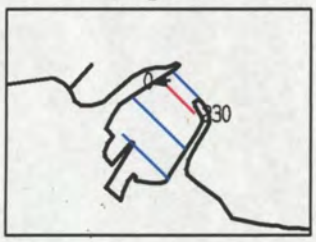


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

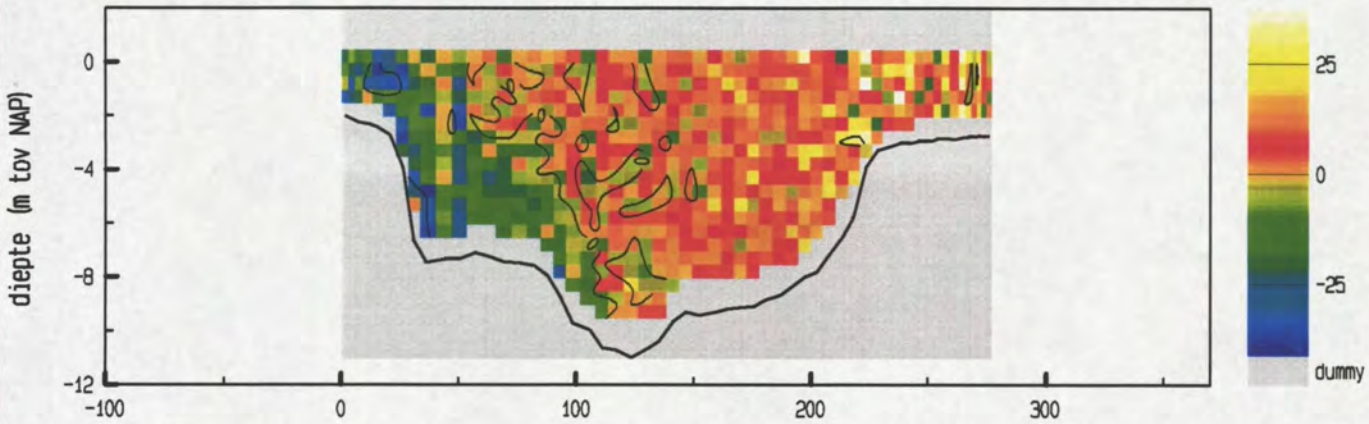
afstand uit nulpunt : 4 m
stroomsnelheid : 50 cm/sec
stroomrichting : 260 °

doorstroomoppervlak : 2280 m²
raaidebiet : 63 m³/sec

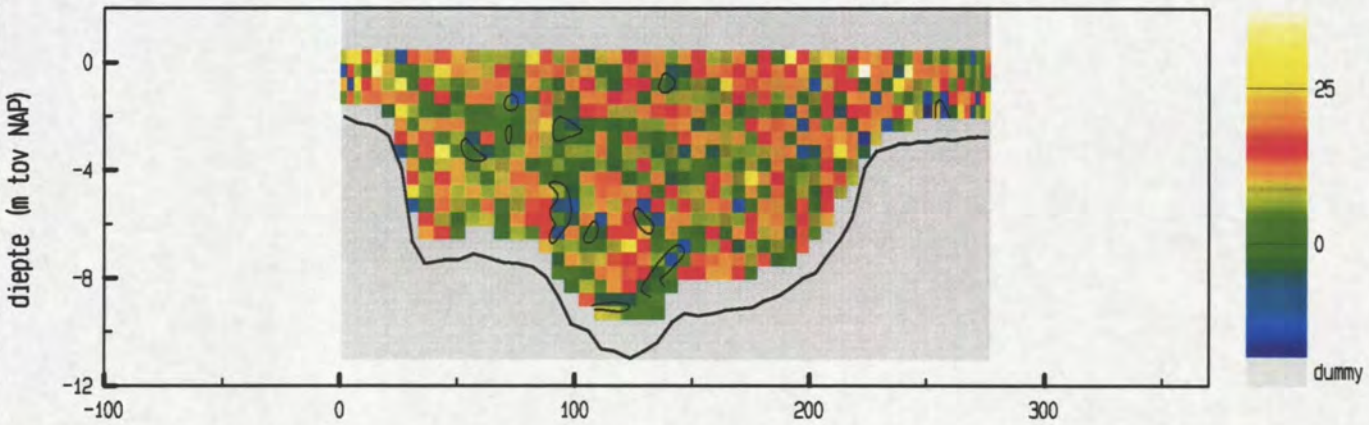
adcpfile : data/gevalid/1826/dw/1826026a.val

Veerhaven Breskens21 mei 1997 tijd : 0052 - 0056
adcpfile : data/gevalid/1826/dw/1826032a.val

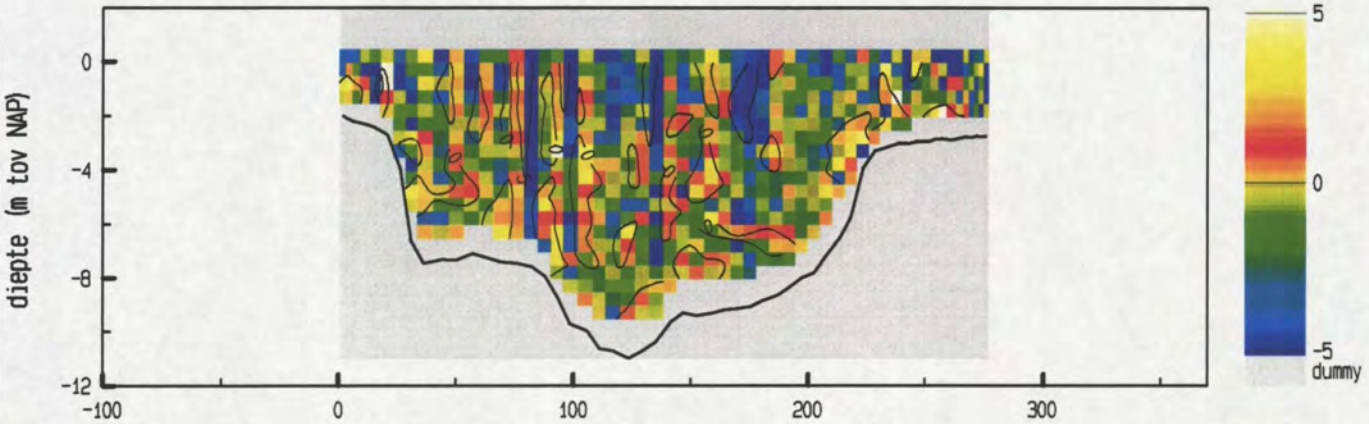
snelheid loodrecht op de raai (cm/sec)

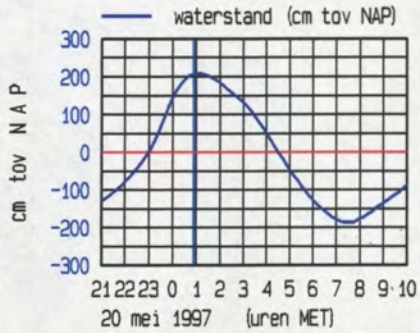


snelheid evenwijdig aan de raai (cm/sec)

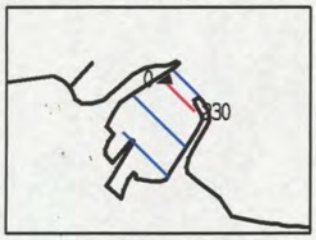


vertikale snelheid (cm/sec)





meetgebied



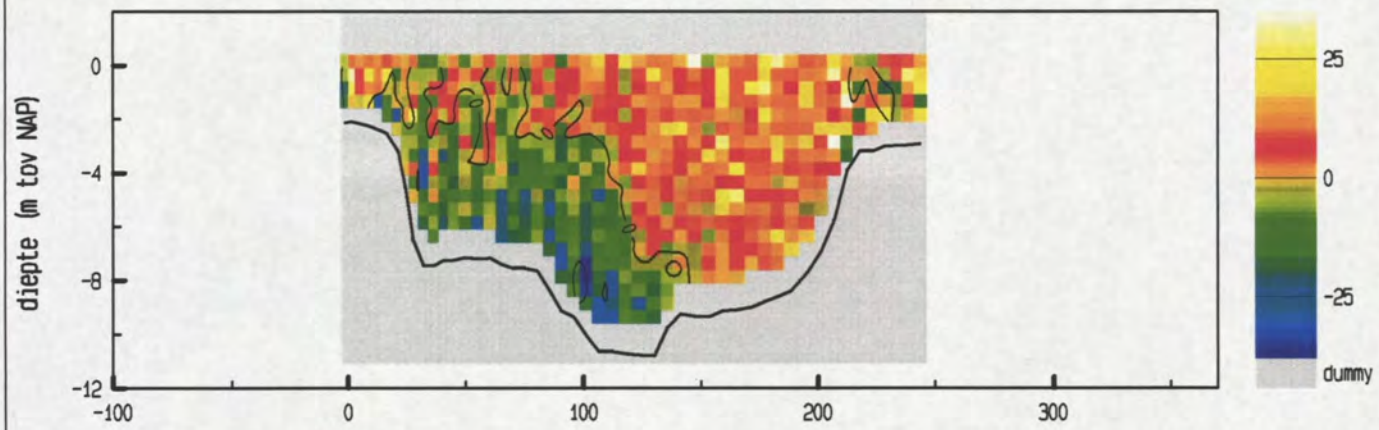
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	15 m
stroomsnelheid	:	34 cm/sec
stroomrichting	:	253 °
doorstroomoppervlak	:	2460 m^2
raaidebiet	:	31 m^3/sec

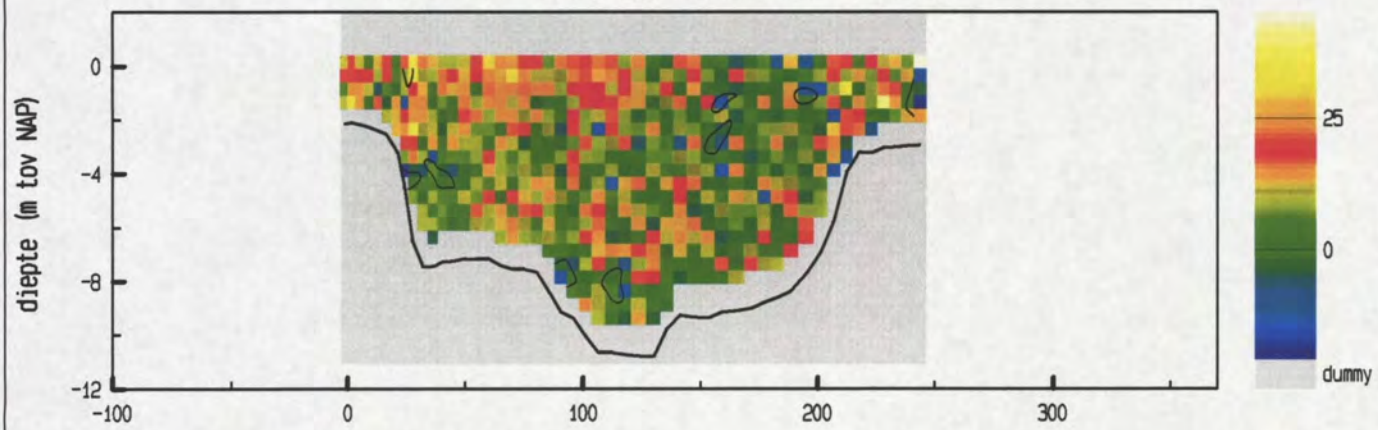
adcpfile : data/gevalid/1826/dw/1826032a.val

Veerhaven Breskens21 mei 1997 tijd : 0130 - 0133
adcpfile : data/gevalid/1826/dw/1826038a.val

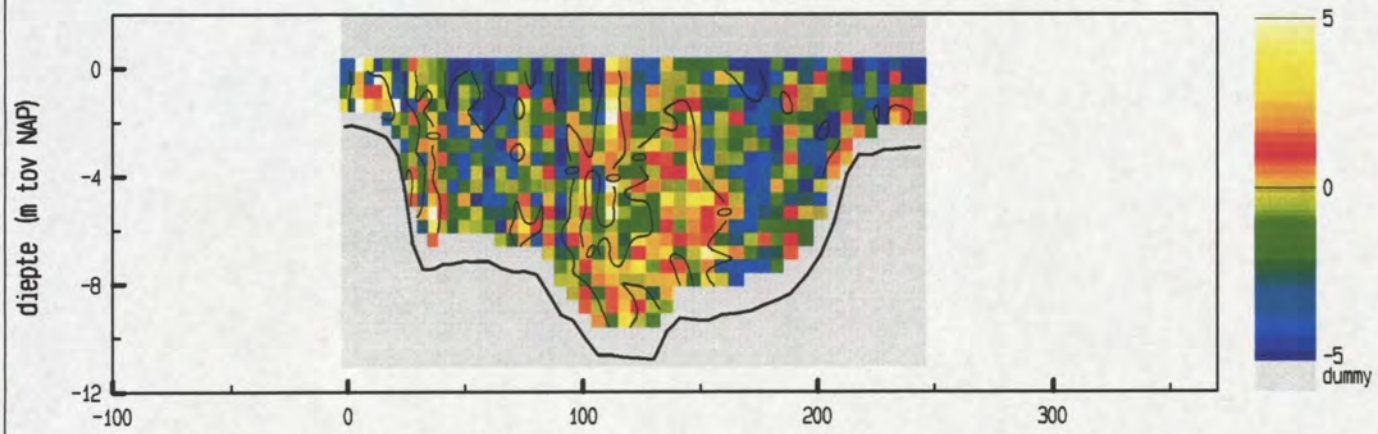
snelheid loodrecht op de raai (cm/sec)

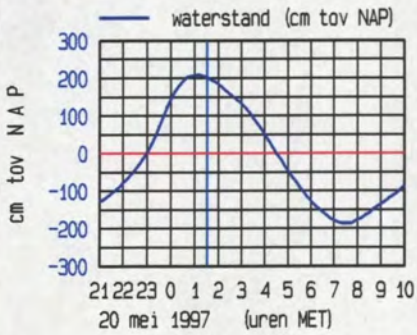


snelheid evenwijdig aan de raai (cm/sec)

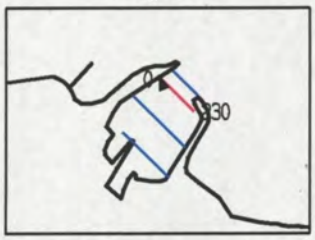


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

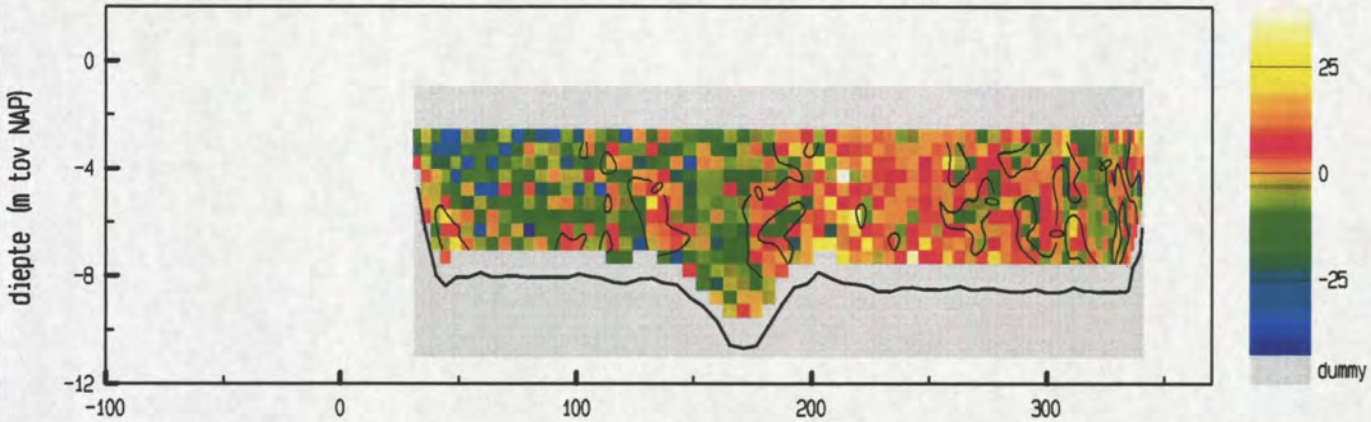
afstand uit nulpunt	:	2 m
stroomsnelheid	:	27 cm/sec
stroomrichting	:	336 °
doorstroomoppervlak	:	2274 m^2
raaidebiet	:	50 m^3/sec

adcpfile : data/gevalid/1826/dw/1826038a.val

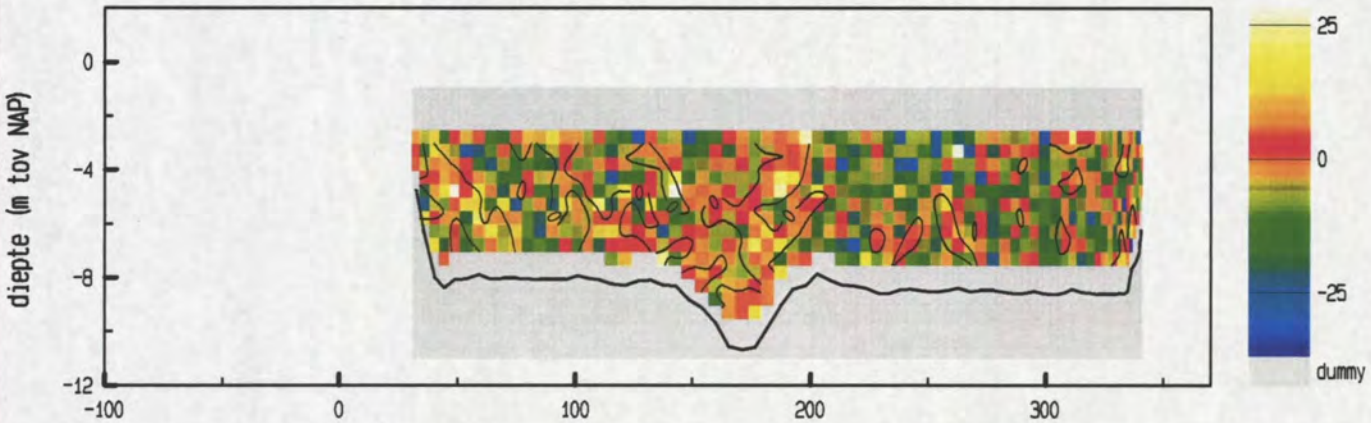
24e. Ontbonden gegevens raai-4.

Veerhaven Breskens20 mei 1997 tijd : 2143 - 2147
adcpfile : data/gevalid/1826/dw/1826009a.val

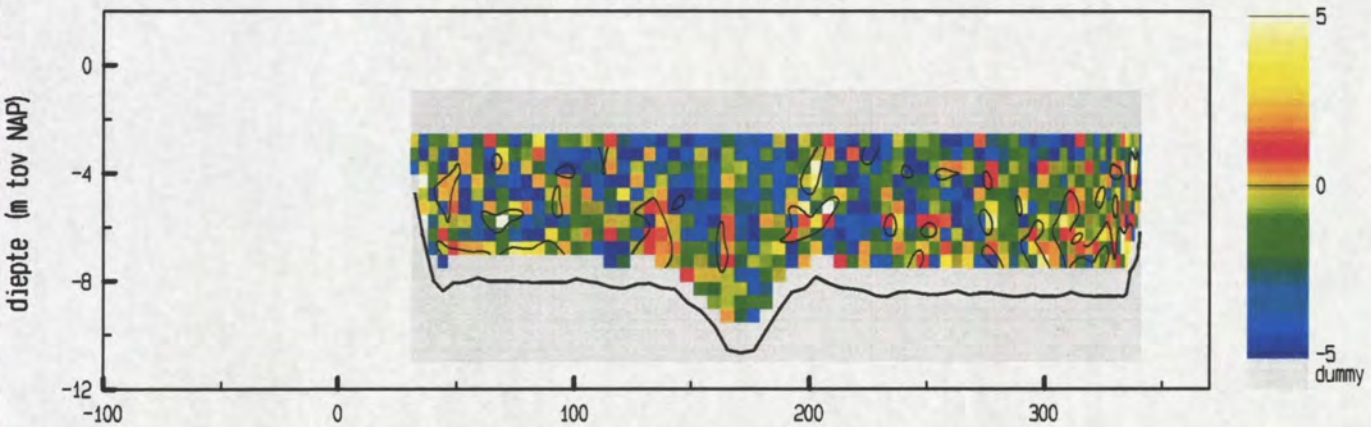
snelheid loodrecht op de raai (cm/sec)

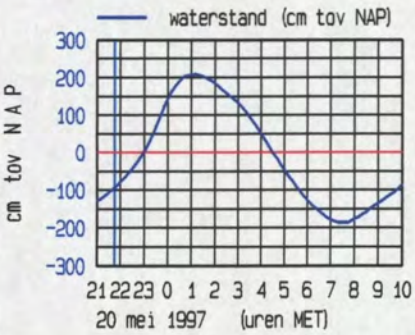


snelheid evenwijdig aan de raai (cm/sec)

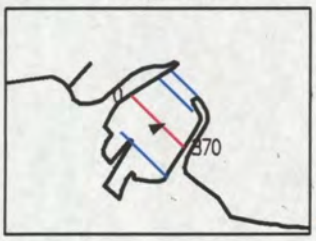


vertikale snelheid (cm/sec)





meetgebied



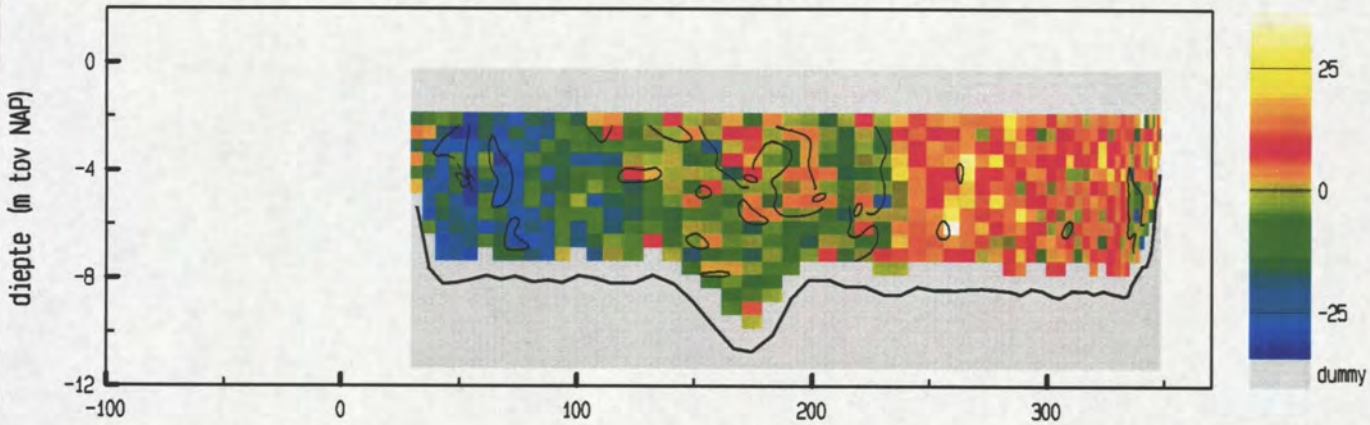
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	213 m
stroomsnelheid	:	18 cm/sec
stroomrichting	:	65 °
doorstroomoppervlak	:	2332 m^2
raaidebiet	:	-39 m^3/sec

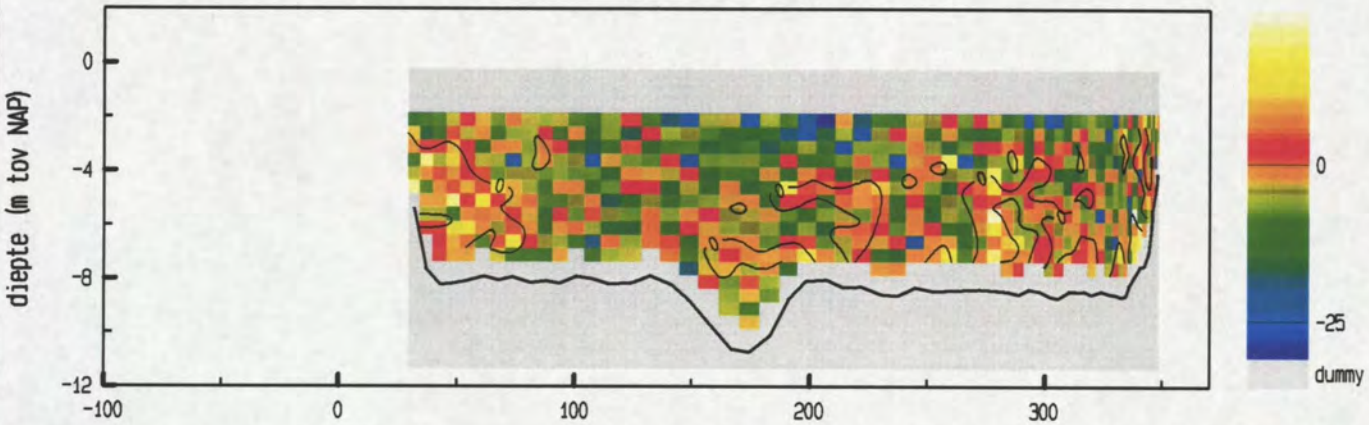
adcpfile : data/gevalid/1826/dw/1826009a.val

Veerhaven Breskens20 mei 1997 tijd : 2242 - 2246
adcpfile : data/gevalid/1826/dw/1826015a.val

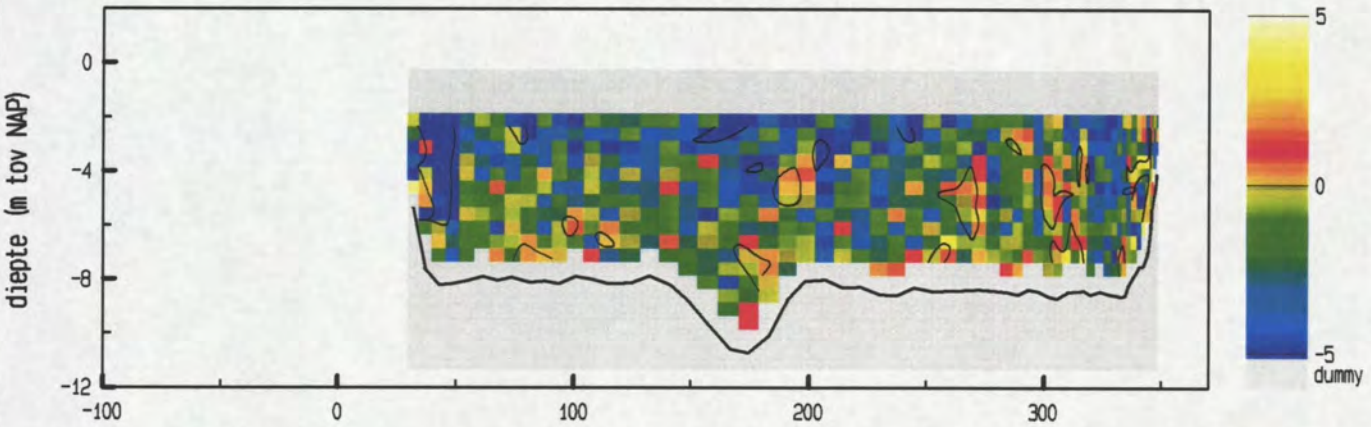
snelheid loodrecht op de raai (cm/sec)

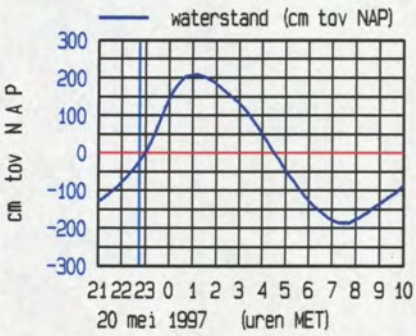


snelheid evenwijdig aan de raai (cm/sec)

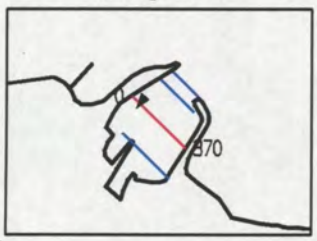


vertikale snelheid (cm/sec)





meetgebied



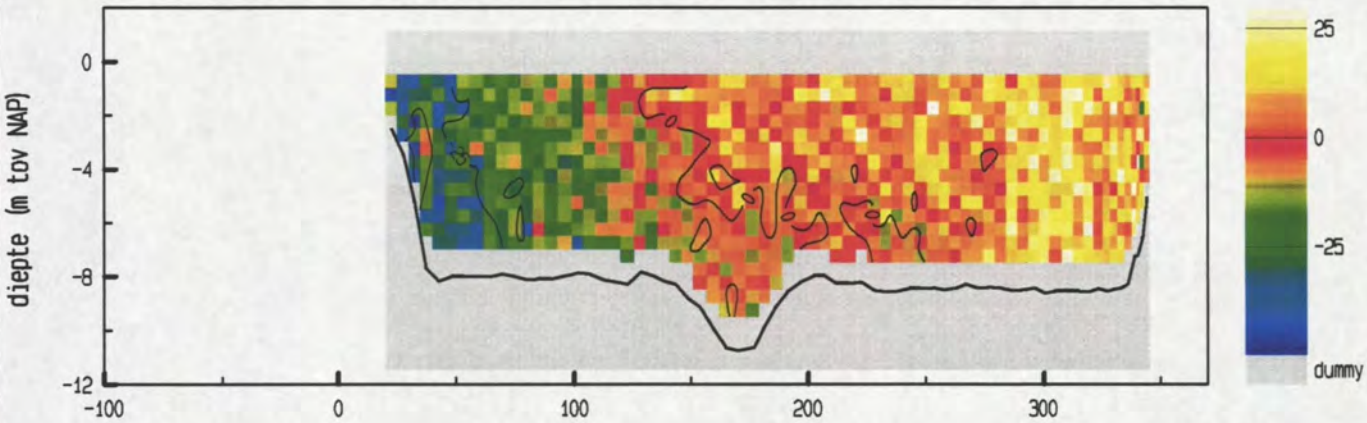
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	54 m
stroomsnelheid	:	28 cm/sec
stroomrichting	:	218 °
doorstroomoppervlak	:	2606 m^2
raaidebiet	:	-49 m^3/sec

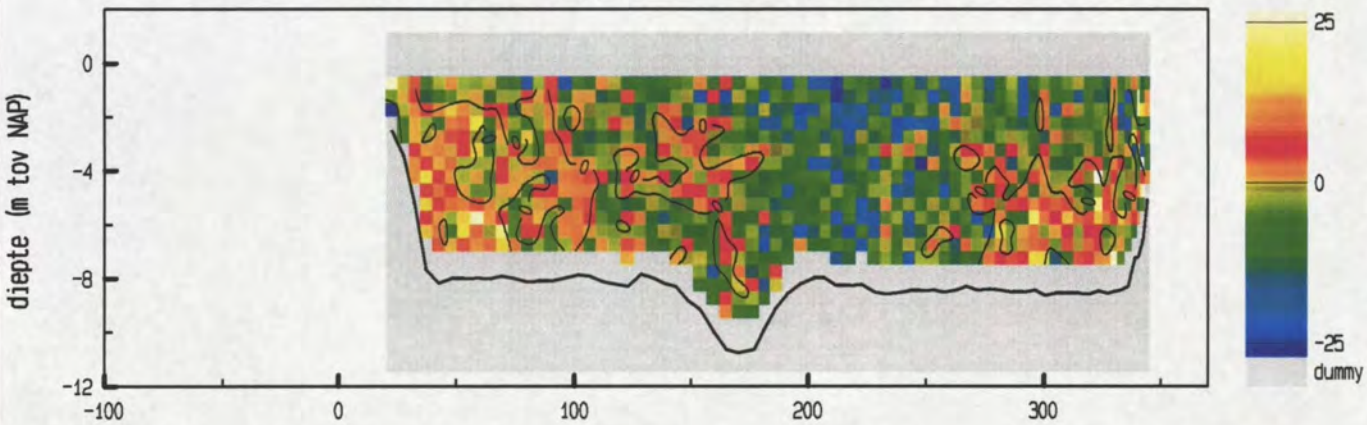
adcpfile : data/gevalid/1826/dw/1826015a.val

Veerhaven Breskens20 mei 1997 tijd : 2344 - 2348
adcpfile : data/gevalid/1826/dw/1826021a.val

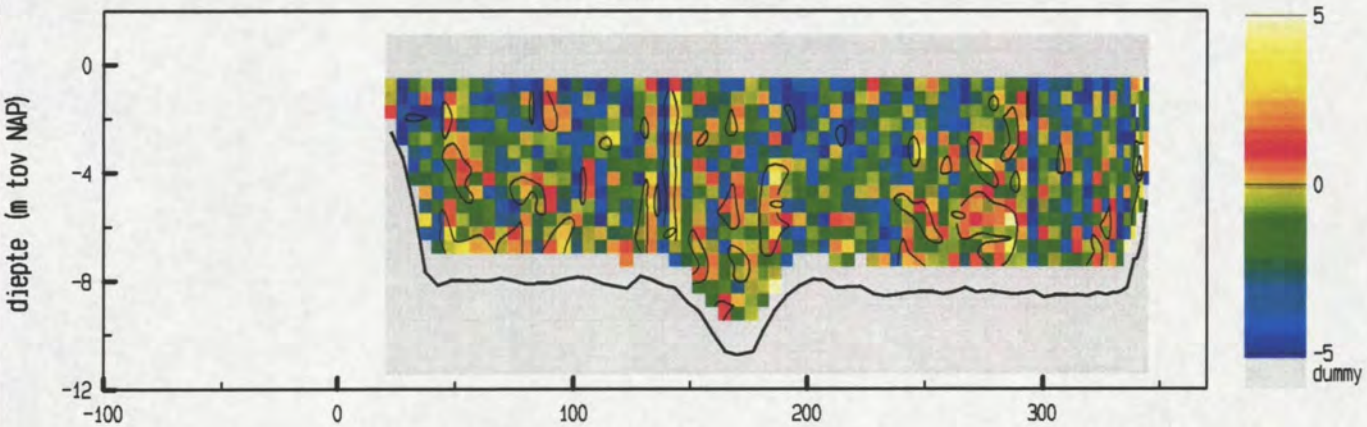
snelheid loodrecht op de raai (cm/sec)

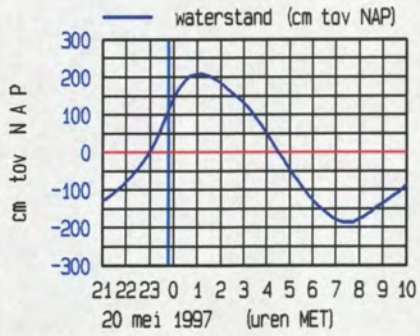


snelheid evenwijdig aan de raai (cm/sec)

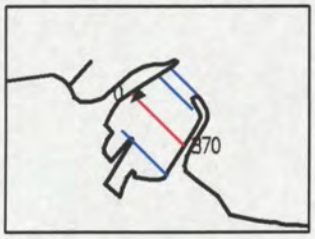


vertikale snelheid (cm/sec)





meetgebied



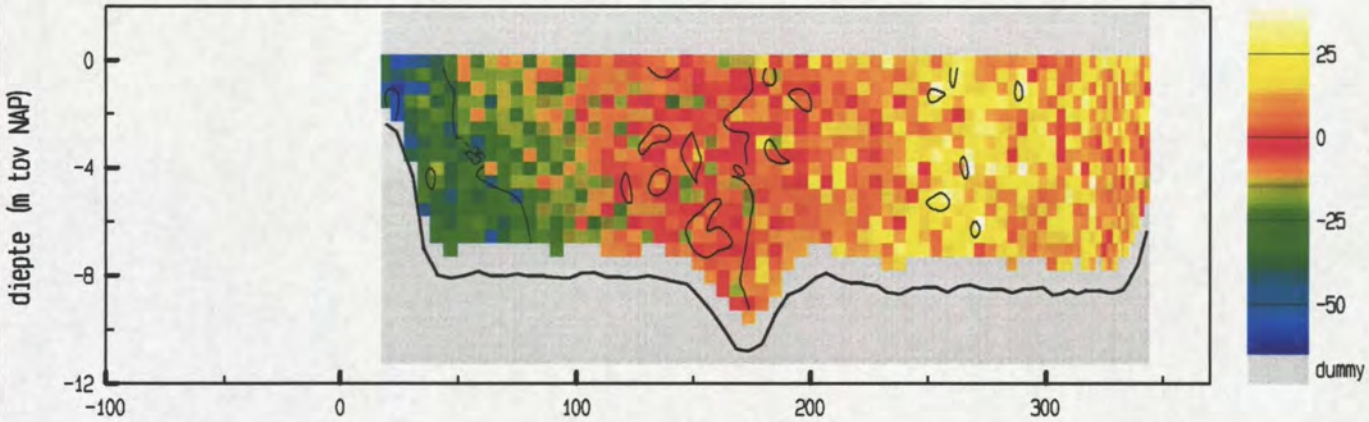
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	32 m
stroomsnelheid	:	33 cm/sec
stroomrichting	:	225 °
doorstroomoppervlak	:	3041 m^2
raaidebiet	:	-65 m^3/sec

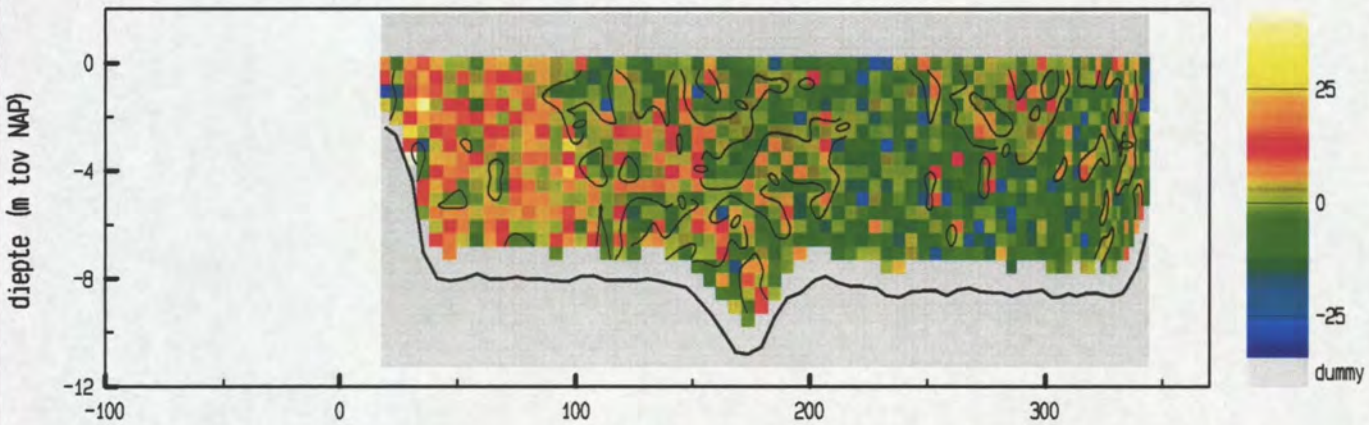
adcpfile : data/gevalid/1826/dw/1826021a.val

Veerhaven Breskens21 mei 1997 tijd : 0020 - 0025
adcpfile : data/gevalid/1826/dw/1826027a.val

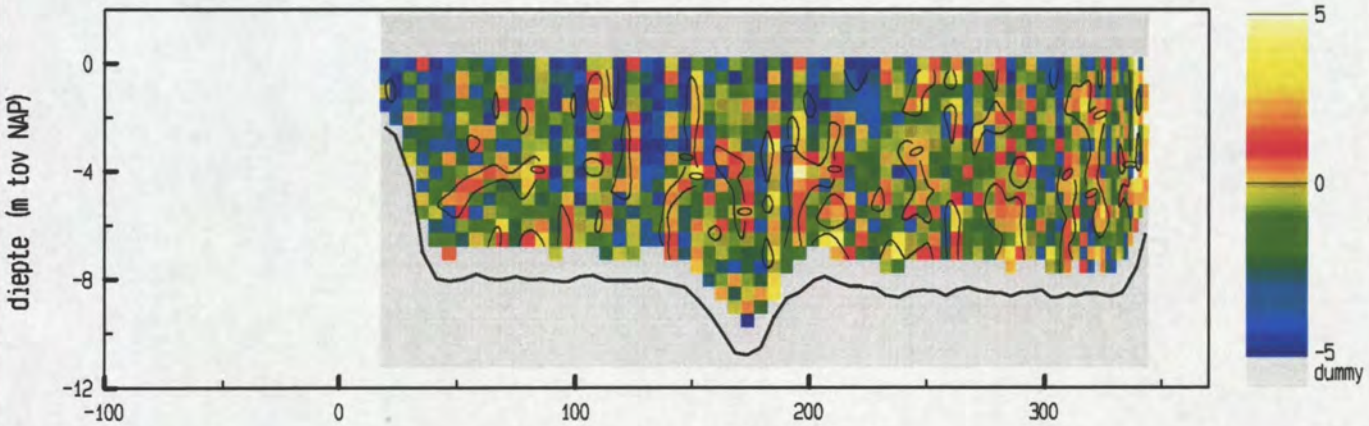
snelheid loodrecht op de raai (cm/sec)

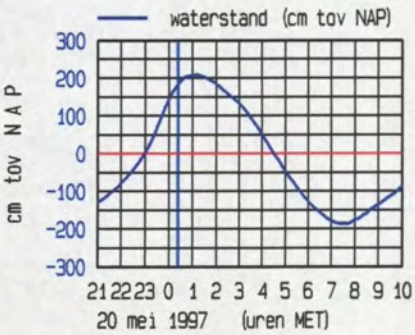


snelheid evenwijdig aan de raai (cm/sec)

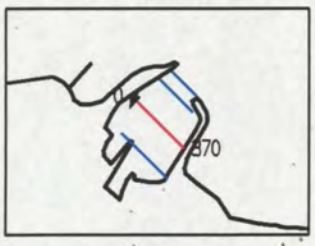


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

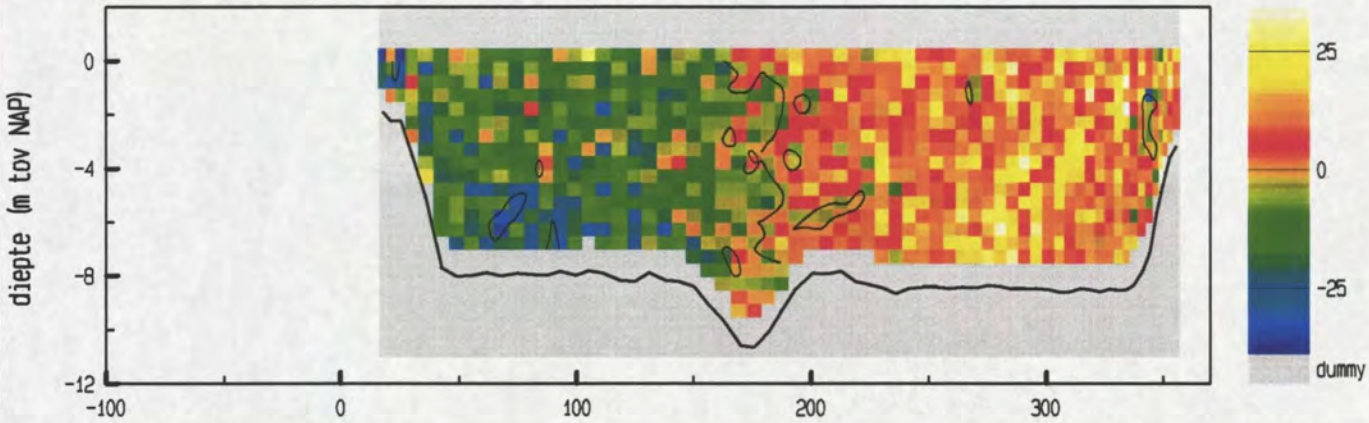
afstand uit nulpunt : 24 m
stroomsnelheid : 54 cm/sec
stroomrichting : 205 °

doorstroomoppervlak : 3276 m^2
raaidebiet : -19 m^3/sec

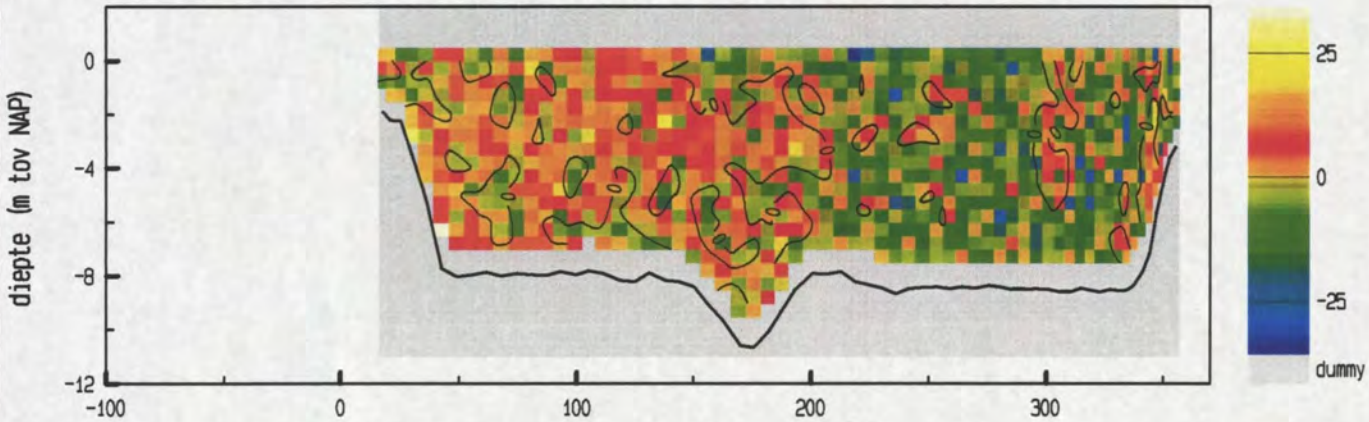
adcpfile : data/gevalid/1826/dw/1826027a.val

Veerhaven Breskens21 mei 1997 tijd : 0058 - 0102
adcpfile : data/gevalid/1826/dw/1826033a.val

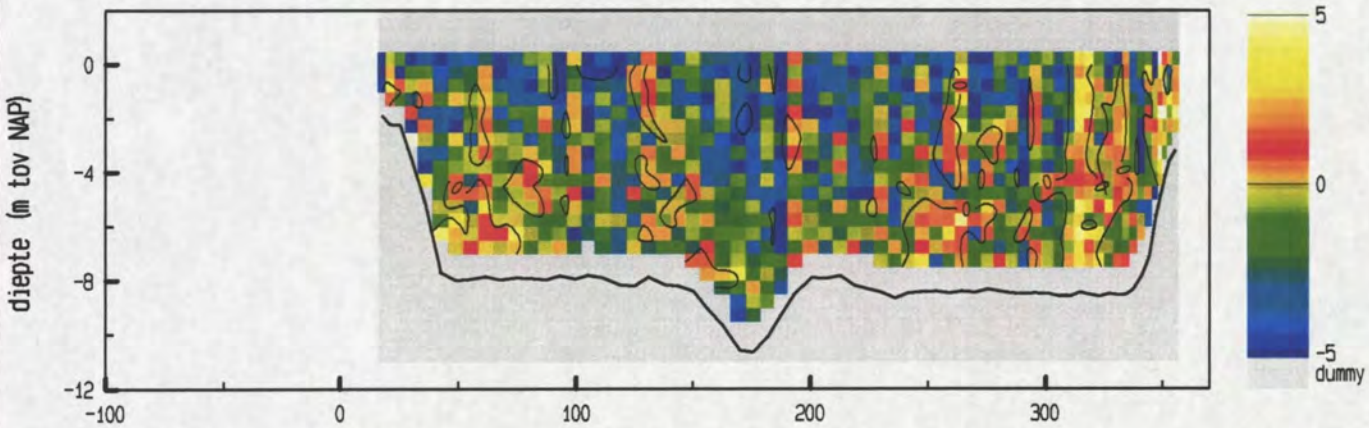
snelheid loodrecht op de raai (cm/sec)

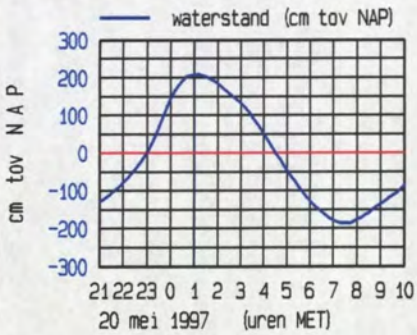


snelheid evenwijdig aan de raai (cm/sec)

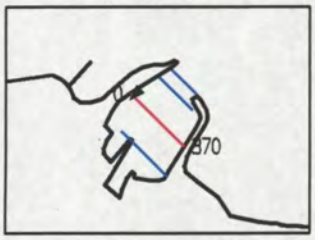


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

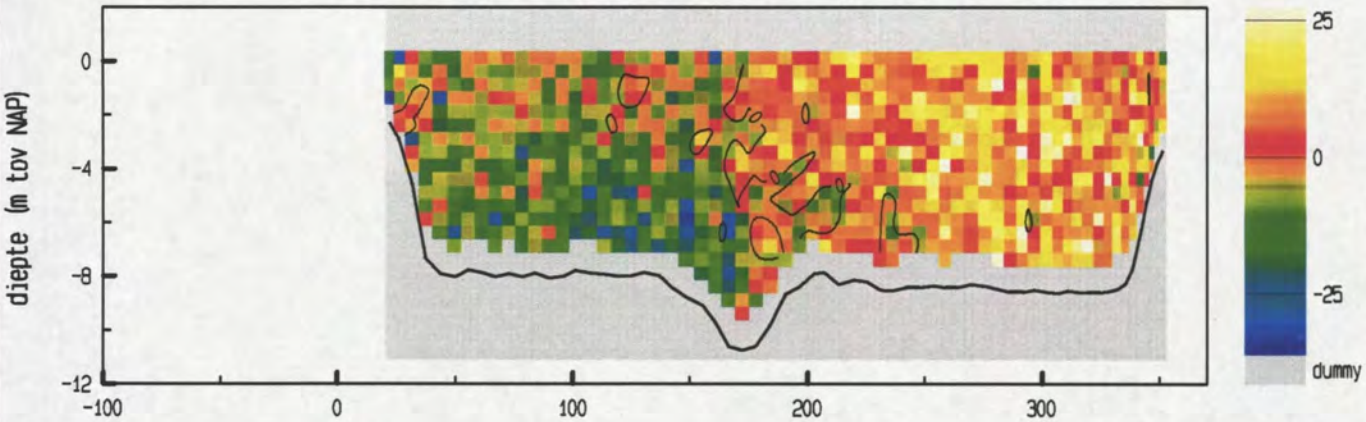
afstand uit nulpunt : 18 m
stroomsnelheid : 29 cm/sec
stroomrichting : 225 °

doorstroomoppervlak : 3411 m^2
raaidebiet : 6 m^3/sec

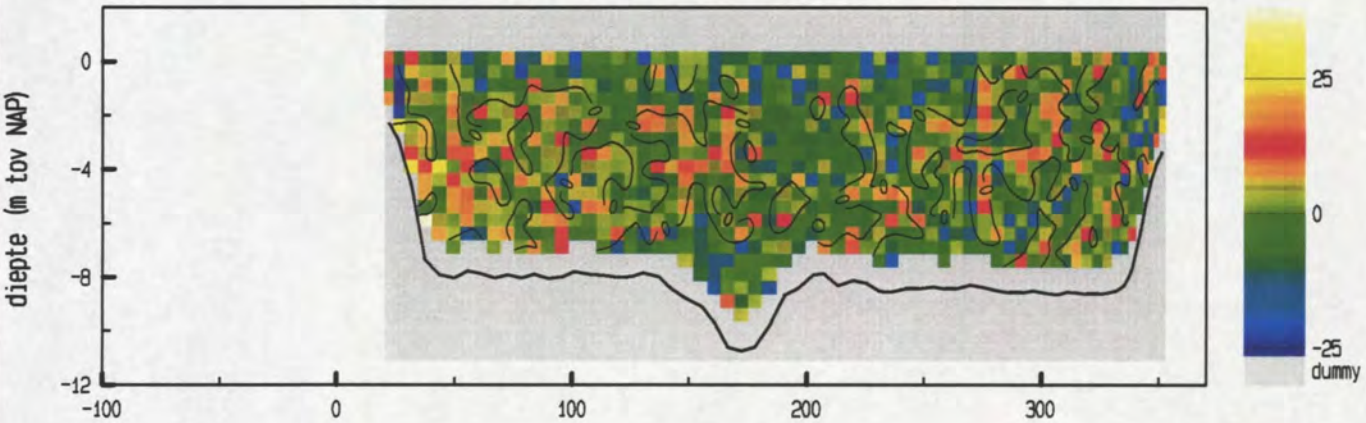
adcpfile : data/gevalid/1826/dw/1826033a.val

Veerhaven Breskens21 mei 1997 tijd : 0136 - 0139
adcpfile : data/gevalid/1826/dw/1826039a.val

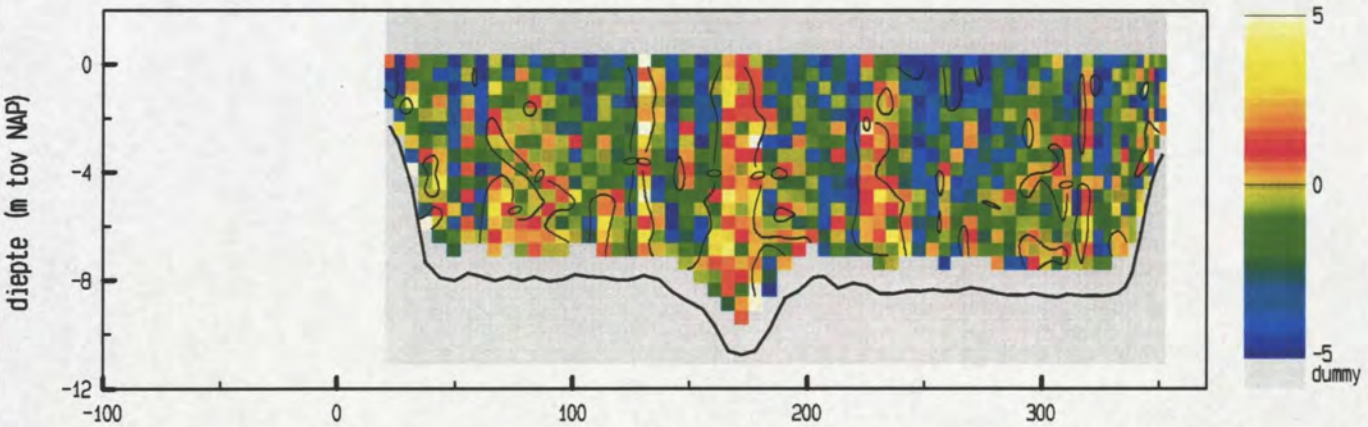
snelheid loodrecht op de raai (cm/sec)

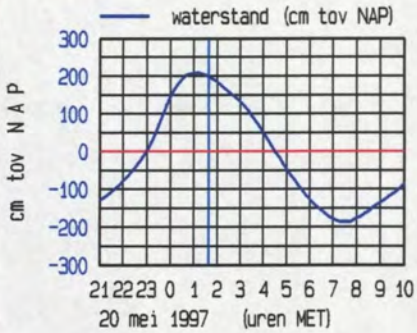


snelheid evenwijdig aan de raai (cm/sec)

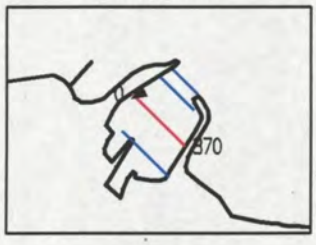


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt : 22 m
stroomsnelheid : 22 cm/sec
stroomrichting : 241 °

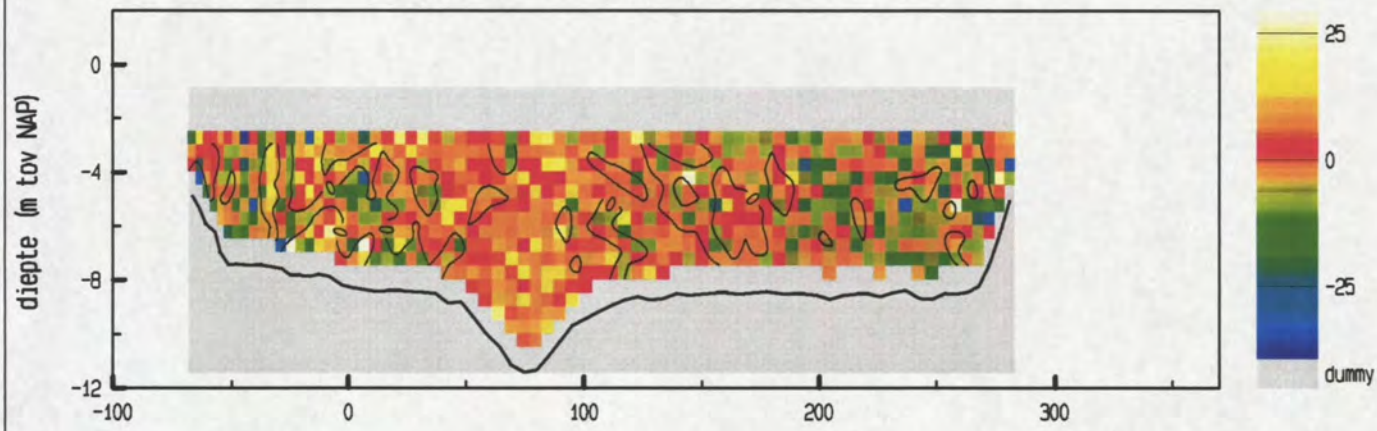
doorstroomoppervlak : 3349 m^2
raaidebiet : 14 m^3/sec

adcpfile : data/gevalid/1826/dw/1826039a.val

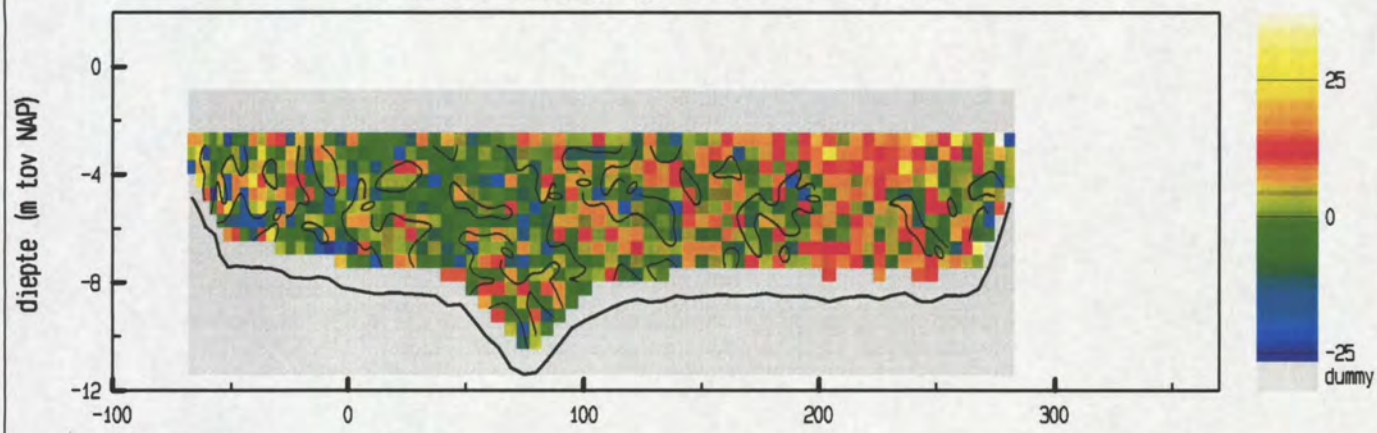
24f. Ontbonden gegevens raai-5.

Veerhaven Breskens20 mei 1997 tijd : 2151 - 2155
adcpfile : data/gevalid/1826/dw/1826010a.val

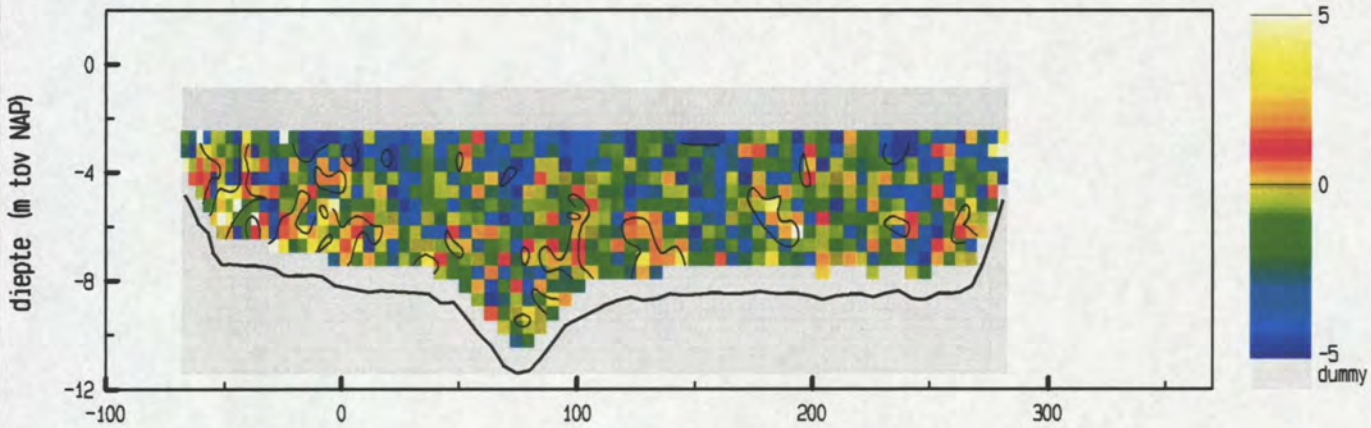
snelheid loodrecht op de raai (cm/sec)

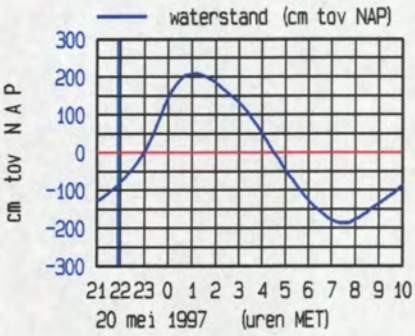


snelheid evenwijdig aan de raai (cm/sec)

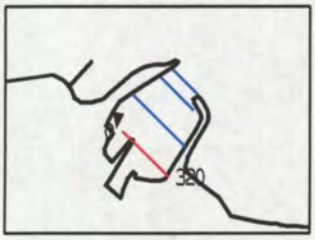


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

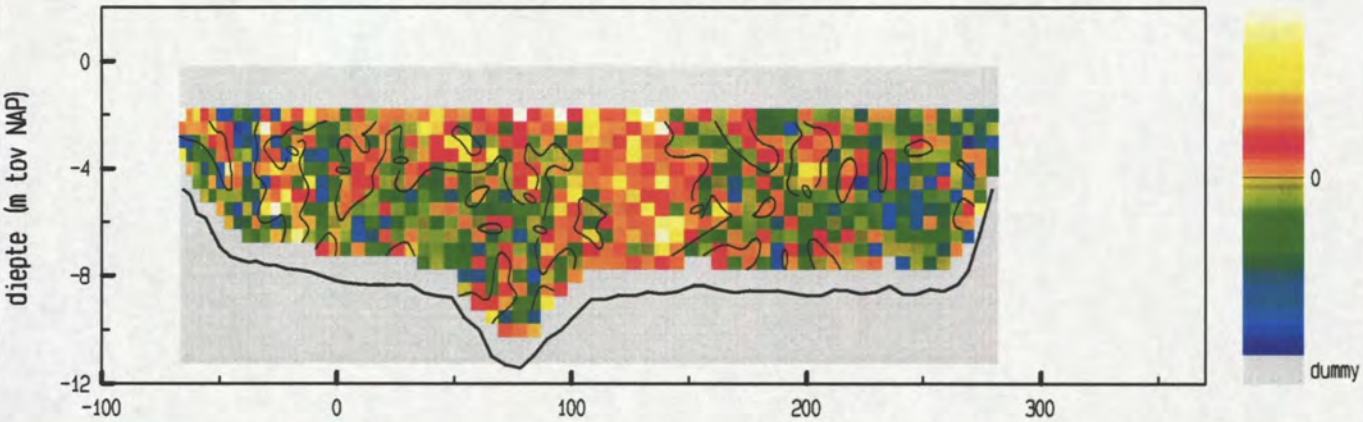
afstand uit nulpunt : -45 m
stroomsnelheid : 21 cm/sec
stroomrichting : 189 °

doorstroomoppervlak : 2691 m^2
raaidebiet : -8 m^3/sec

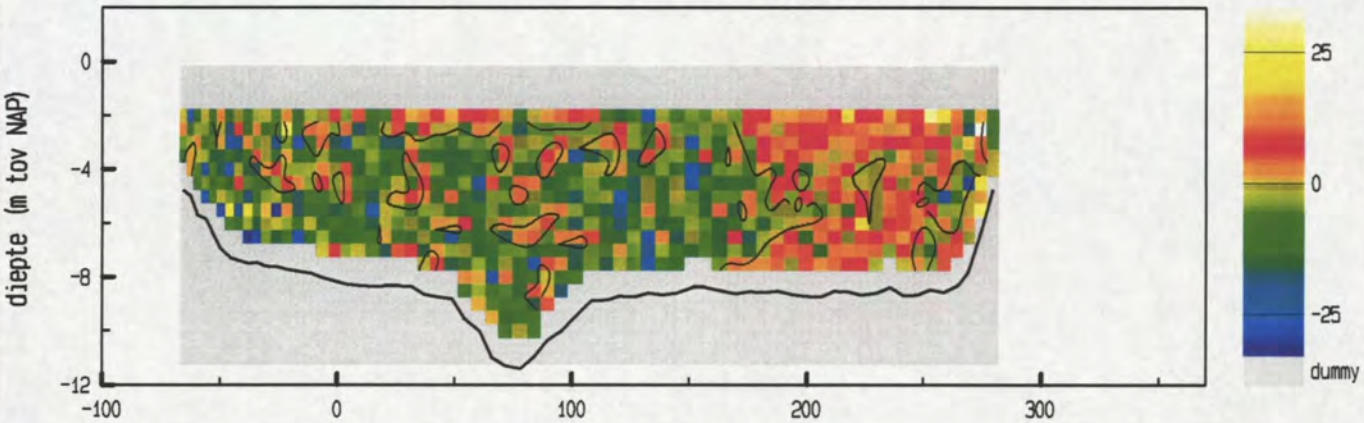
adcpfile : data/gevalid/1826/dw/1826010a.val

Veerhaven Breskens20 mei 1997 tijd : 2249 - 2252
adcpfile : data/gevalid/1826/dw/1826016a.val

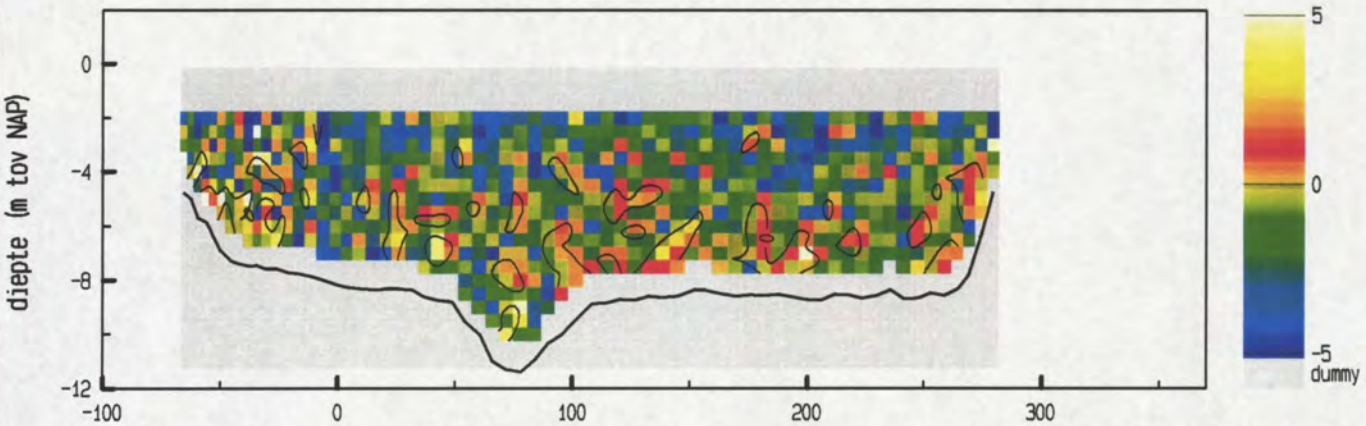
snelheid loodrecht op de raai (cm/sec)

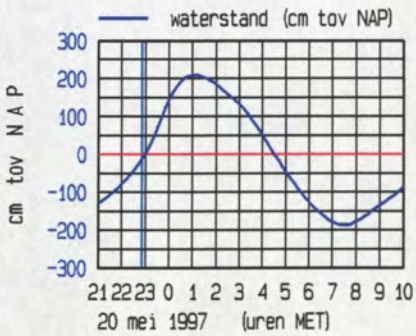


snelheid evenwijdig aan de raai (cm/sec)

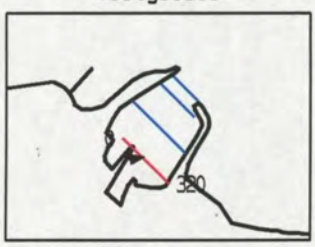


vertikale snelheid (cm/sec)





meetgebied



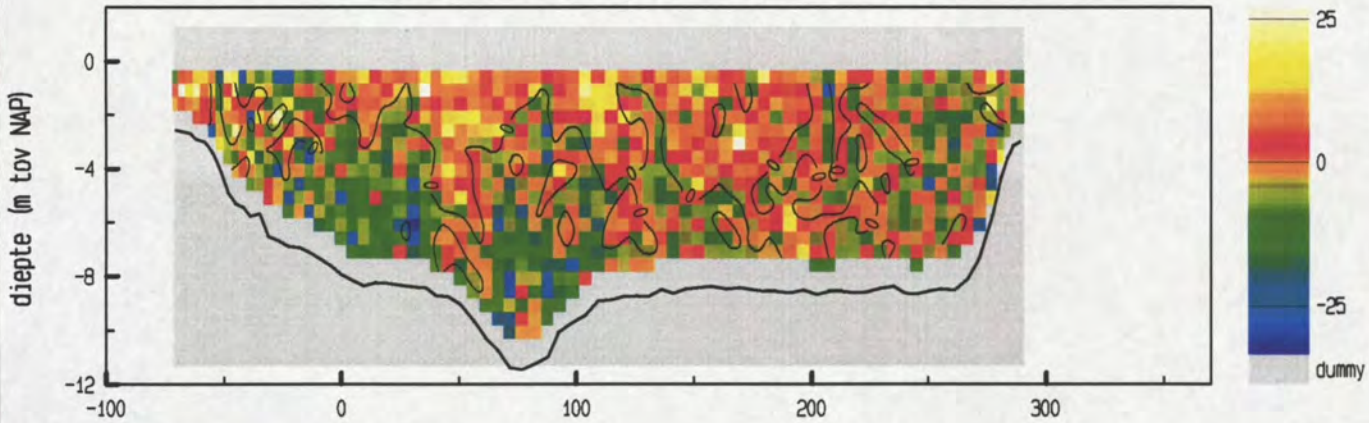
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	133 m
stroomsnelheid	:	15 cm/sec
stroomrichting	:	79 °
doorstroomoppervlak	:	2911 m^2
raaidebiet	:	-1 m^3/sec

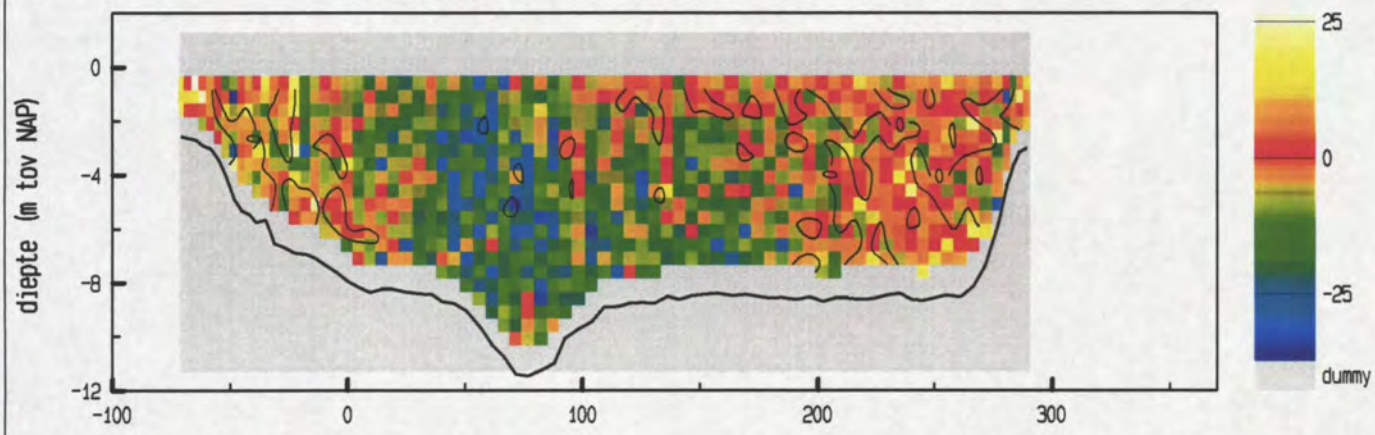
adcpfile : data/gevalid/1826/dw/1826016a.val

Veerhaven Breskens20 mei 1997 tijd : 2350 - 2355
adcpfile : data/gevalid/1826/dw/1826022a.val

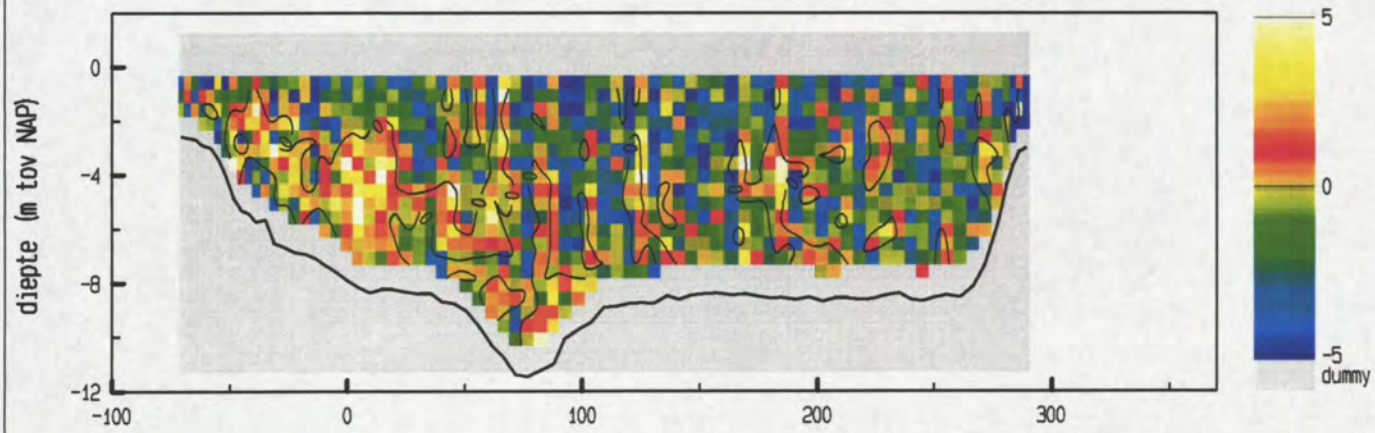
snelheid loodrecht op de raai (cm/sec)

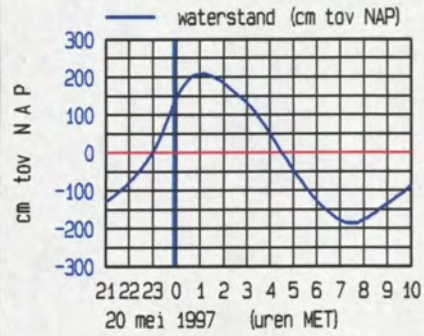


snelheid evenwijdig aan de raai (cm/sec)

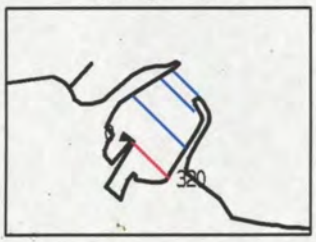


vertikale snelheid (cm/sec)





meetgebied



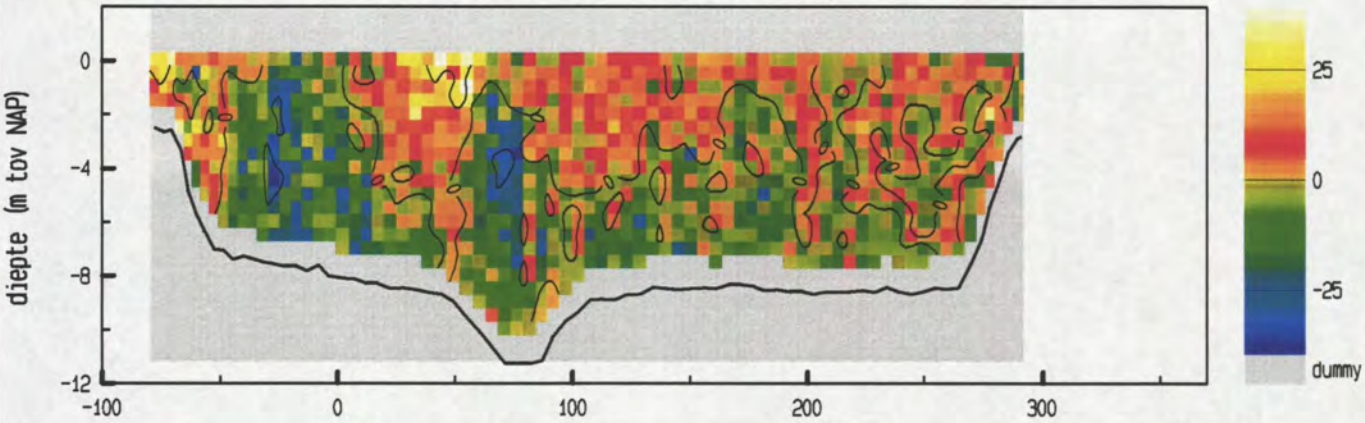
maximum gemiddelde stroom-
snelheid in de vertikaal

afstand uit nulpunt	:	56 m
stroomsnelheid	:	21 cm/sec
stroomrichting	:	111 °
doorstroomoppervlak	:	3369 m^2
raaidebiet	:	-42 m^3/sec

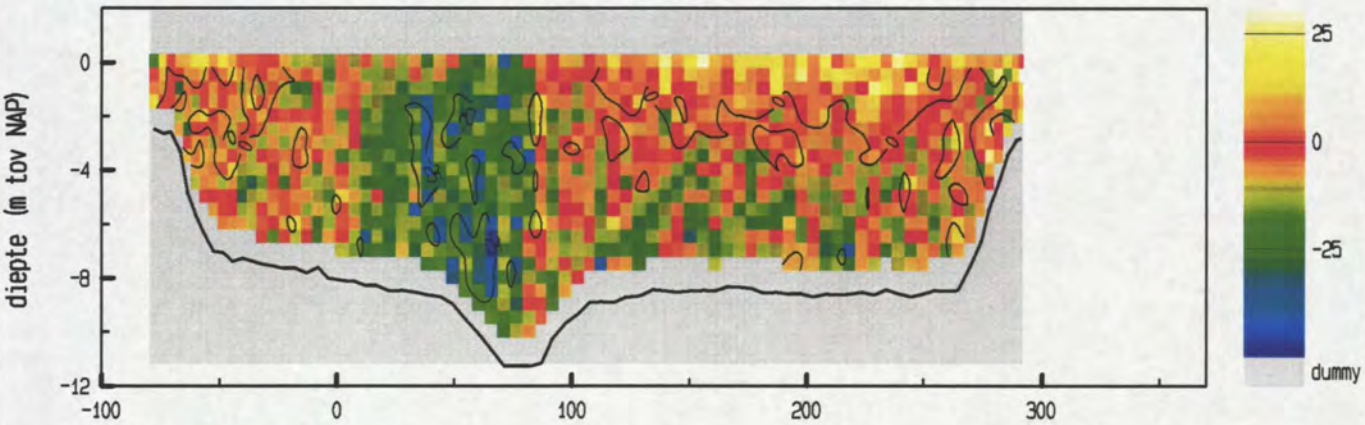
adcpfile : data/gevalid/1826/dw/1826022a.val

Veerhaven Breskens21 mei 1997 tijd : 0027 - 0032
adcpfile : data/gevalid/1826/dw/1826028a.val

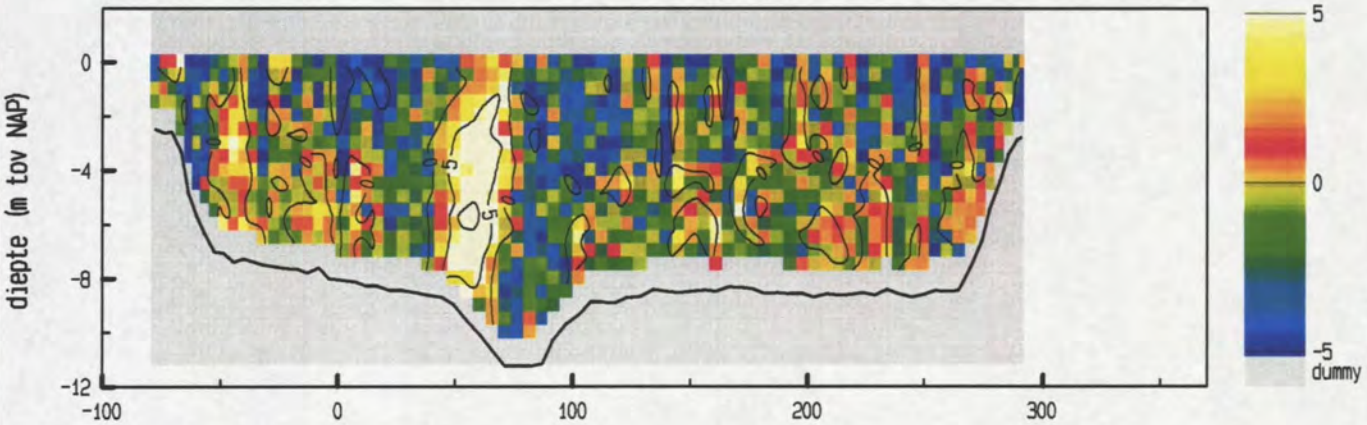
snelheid loodrecht op de raai (cm/sec)

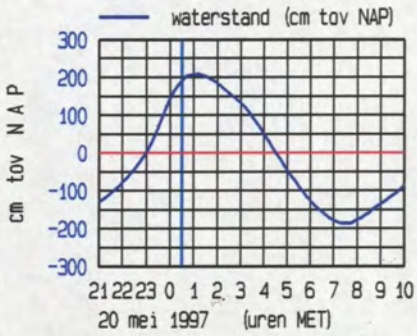


snelheid evenwijdig aan de raai (cm/sec)

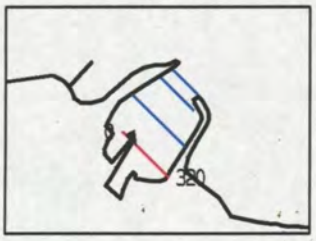


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

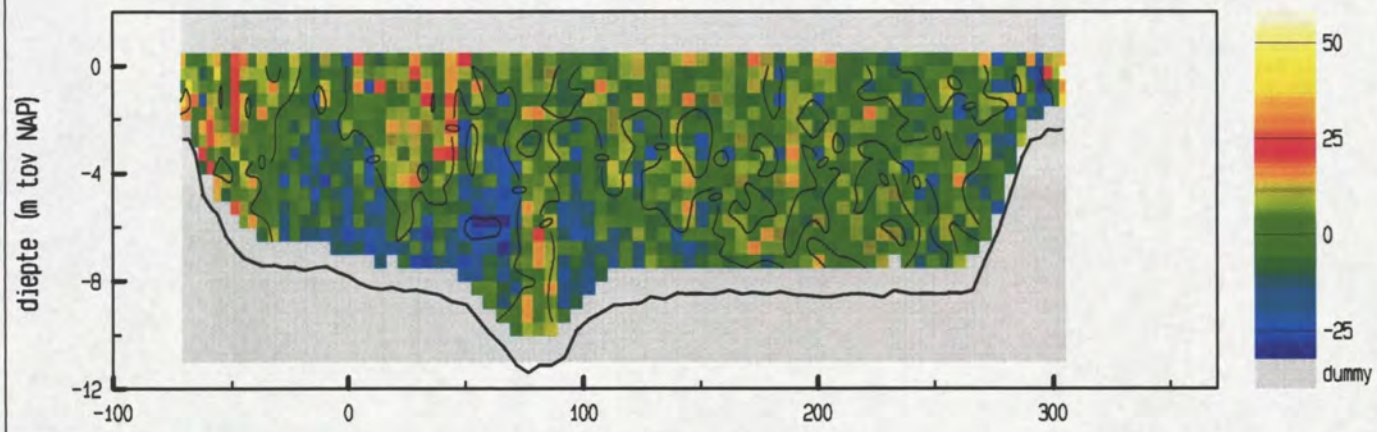
afstand uit nulpunt : 76 m
stroomsnelheid : 26 cm/sec
stroomrichting : 153 °

doorstroomoppervlak : 3731 m^2
raaidebiet : -40 m^3/sec

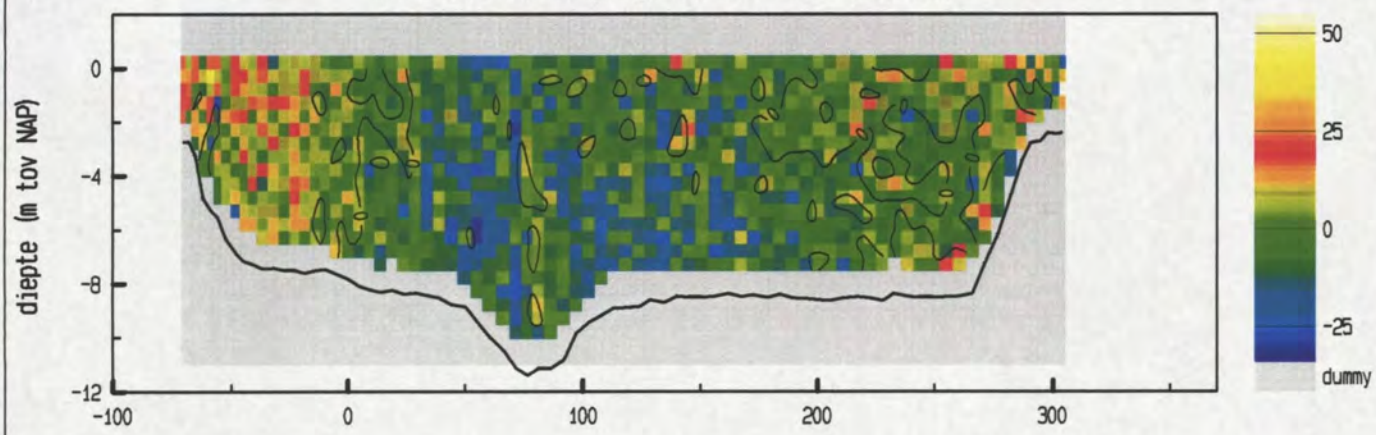
adcpfile : data/gevalid/1826/dw/1826028a.val

Veerhaven Breskens21 mei 1997 tijd : 0104 - 0109
adcpfile : data/gevalid/1826/dw/1826034a.val

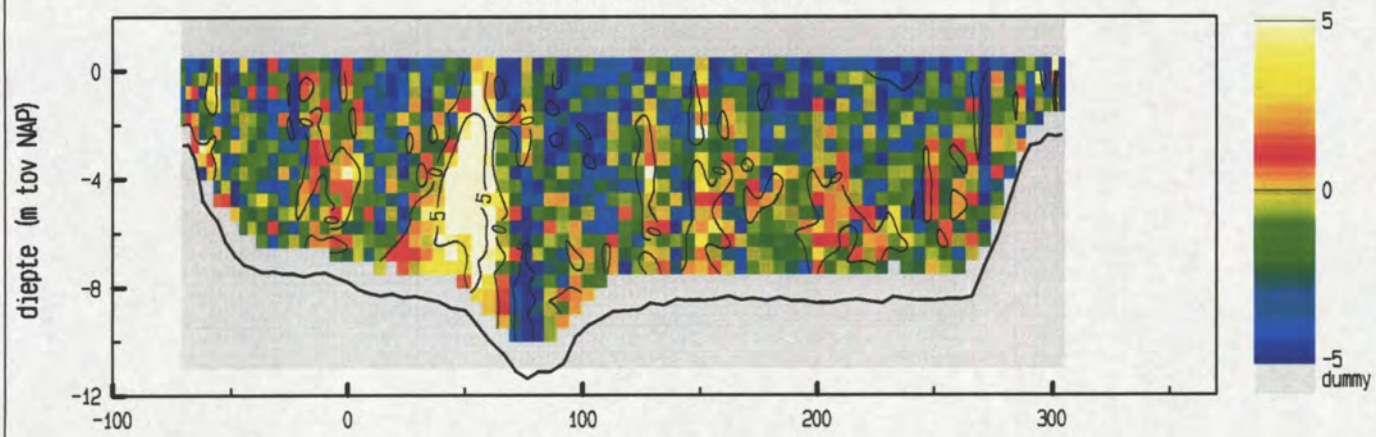
snelheid loodrecht op de raai (cm/sec)

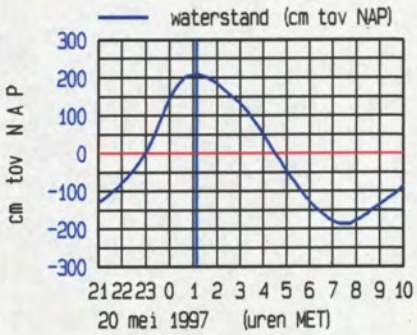


snelheid evenwijdig aan de raai (cm/sec)

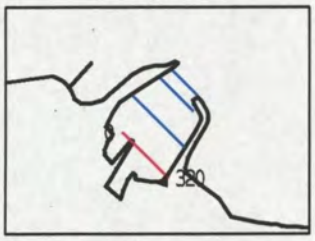


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

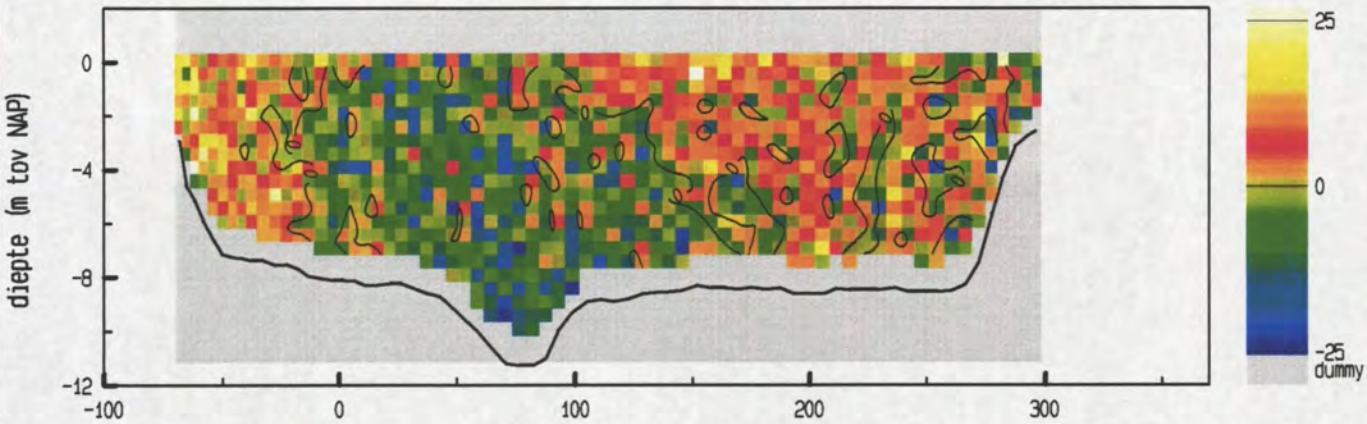
afstand uit nulpunt : 304 m
stroomsnelheid : 25 cm/sec
stroomrichting : 20 °

doorstroomoppervlak : 3801 m^2
raaidebiet : 2 m^3/sec

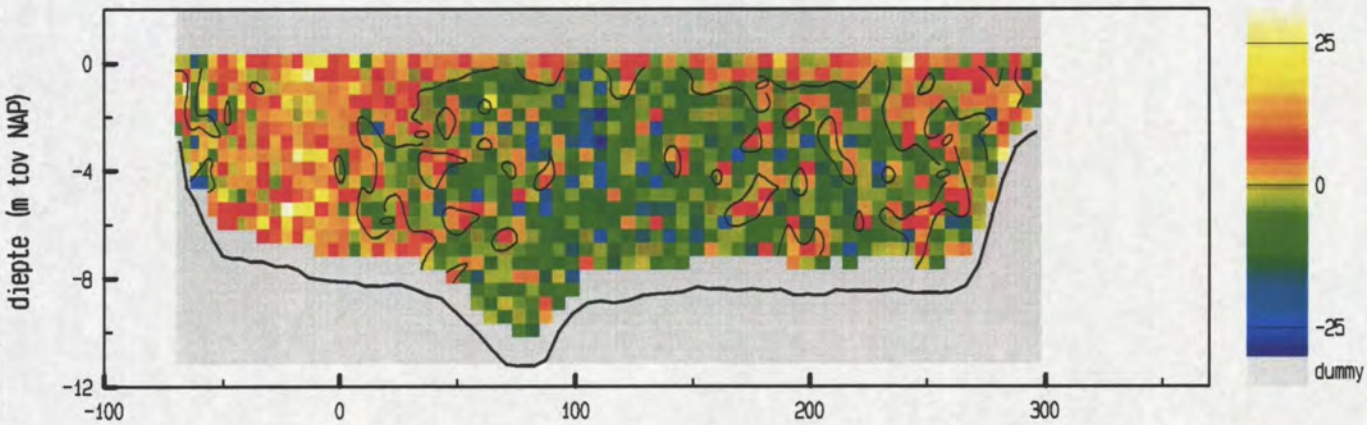
adcpfile : data/gevalid/1826/dw/1826034a.val

Veerhaven Breskens21 mei 1997 tijd : 0141 - 0145
adcpfile : data/gevalid/1826/dw/1826040a.val

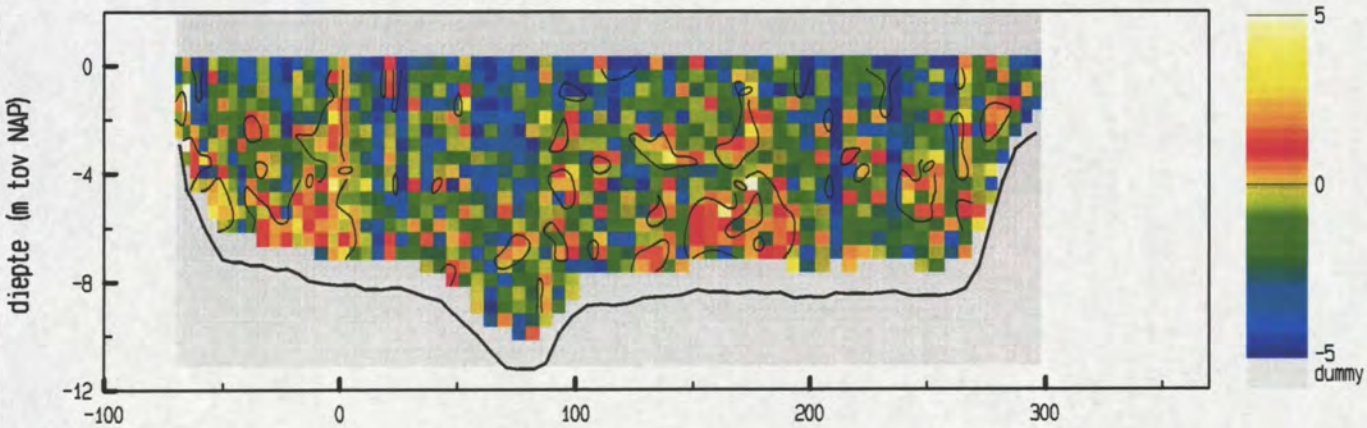
snelheid loodrecht op de raai (cm/sec)

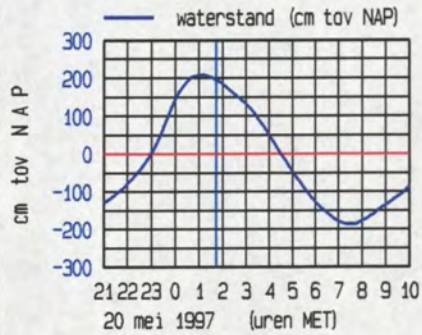


snelheid evenwijdig aan de raai (cm/sec)

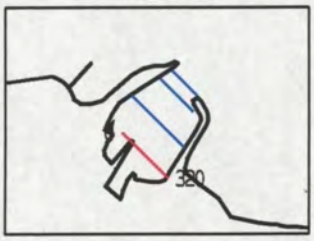


vertikale snelheid (cm/sec)





meetgebied



maximum gemiddelde stroom-
snelheid in de vertikaal

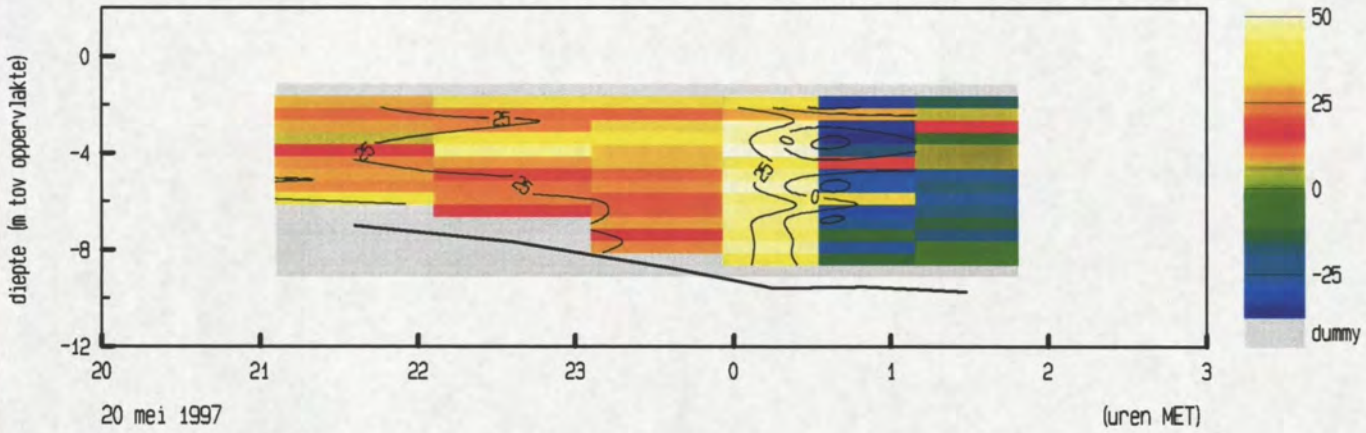
afstand uit nulpunt	:	-68 m
stroomsnelheid	:	16 cm/sec
stroomrichting	:	28 °
doorstroomoppervlak	:	3729 m^2
raaidebiet	:	2 m^3/sec

adcpfile : data/gevalid/1826/dw/1826040a.val

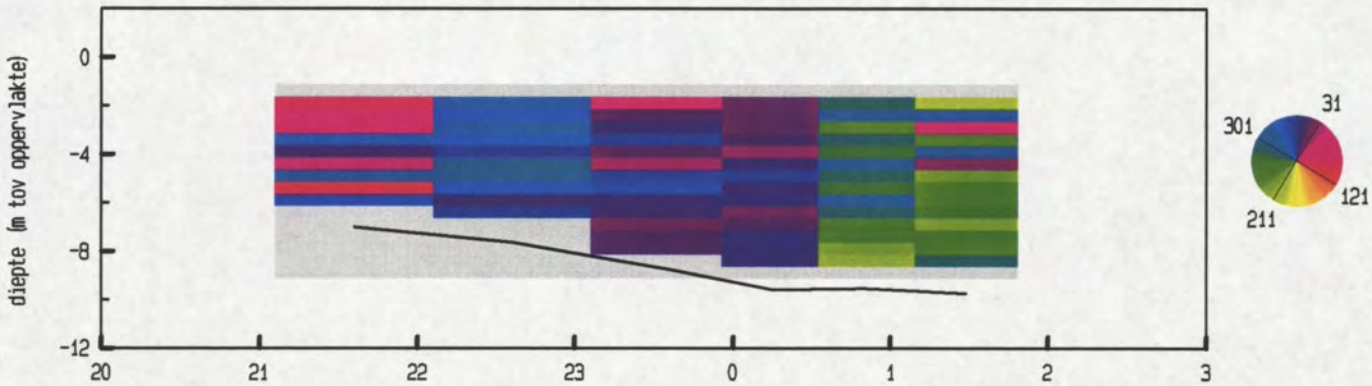
25. Vertikalen meetpunten

Veerhaven Breskens dd 20 mei 1997

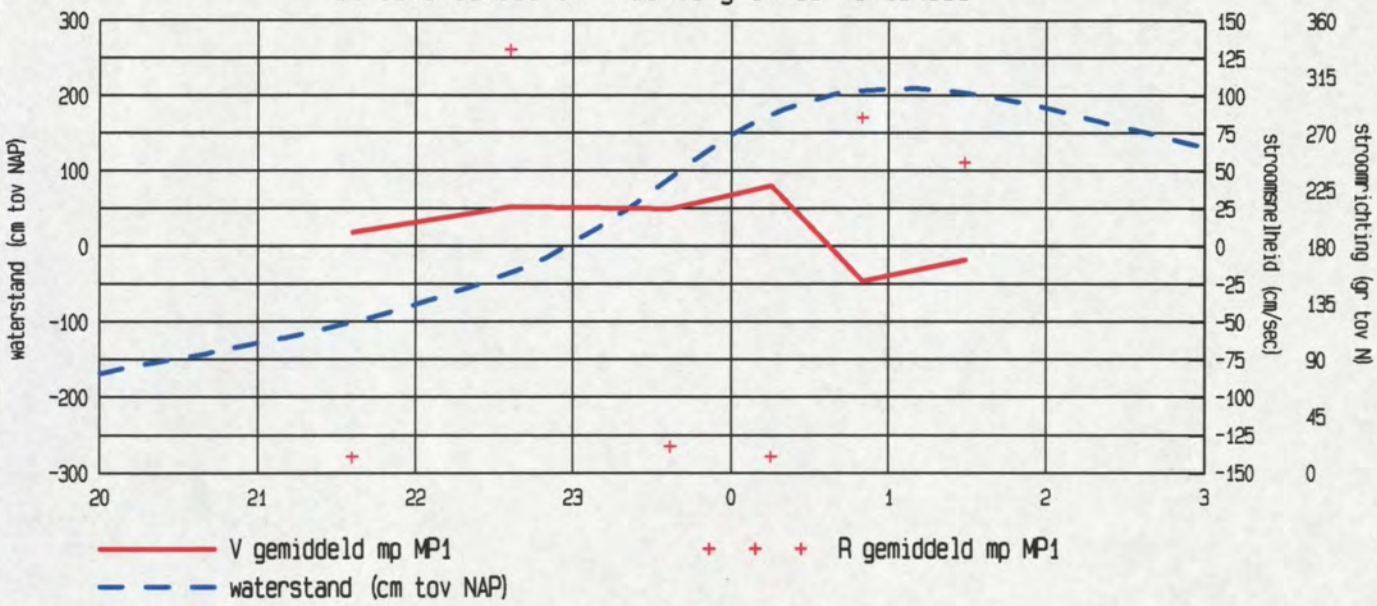
gemeten stroomsnelheid (cm/sec)



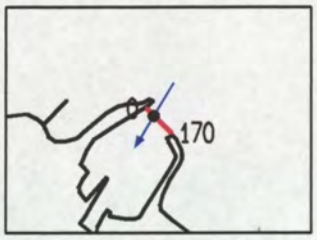
gemeten stroomrichting (gr. tov N)



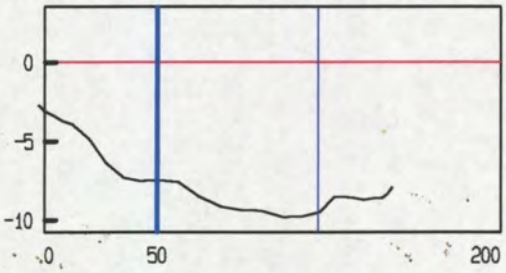
stroomsnelheid en -richting in de vertikaal



meetgebied



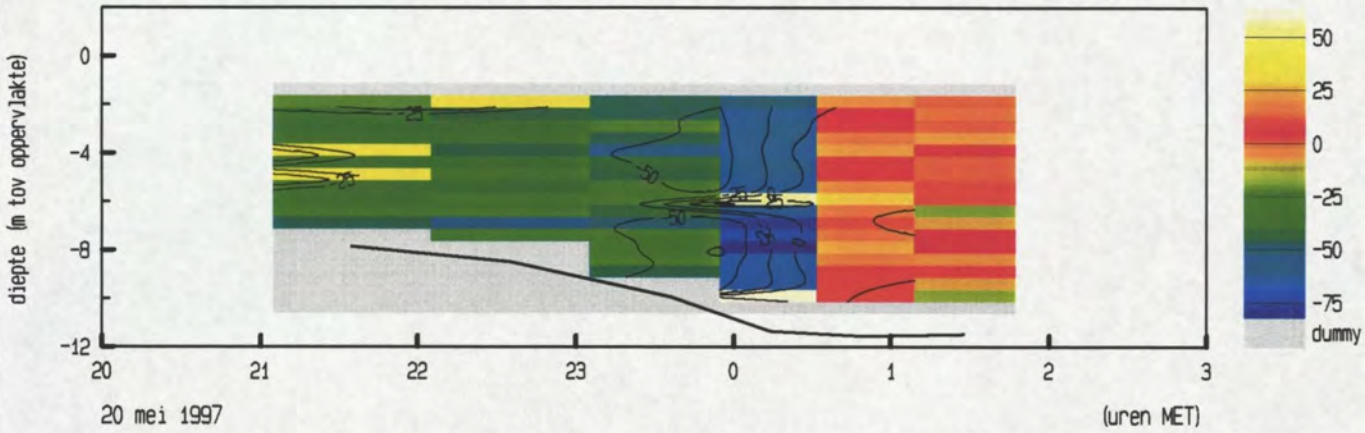
bodemligging



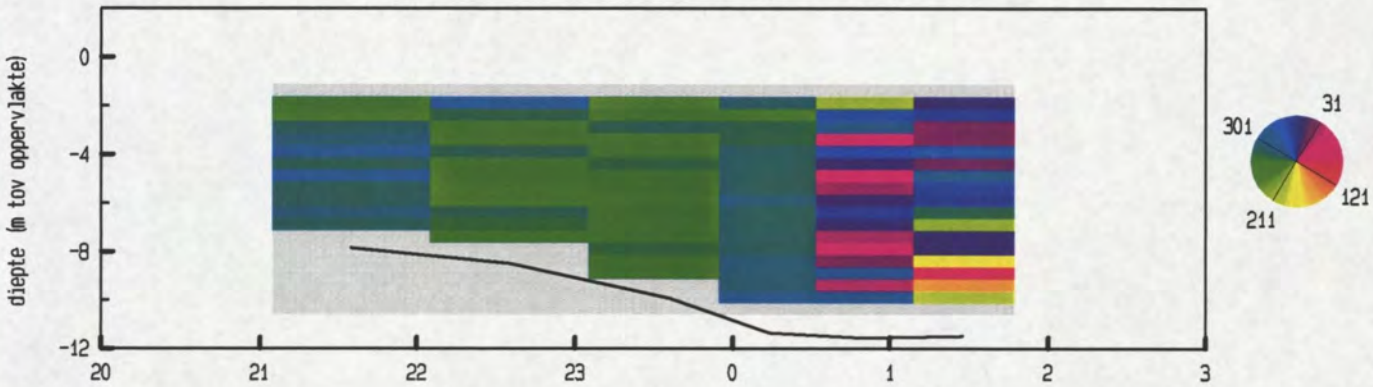
meetpunt	MP1	
vloedrichting	:	211°
positie	x :	27305
	y :	381215
afstand uit 0-punt	:	50 m
bodem tov NAP	:	- 7.81 m

Veerhaven Breskens dd 20 mei 1997

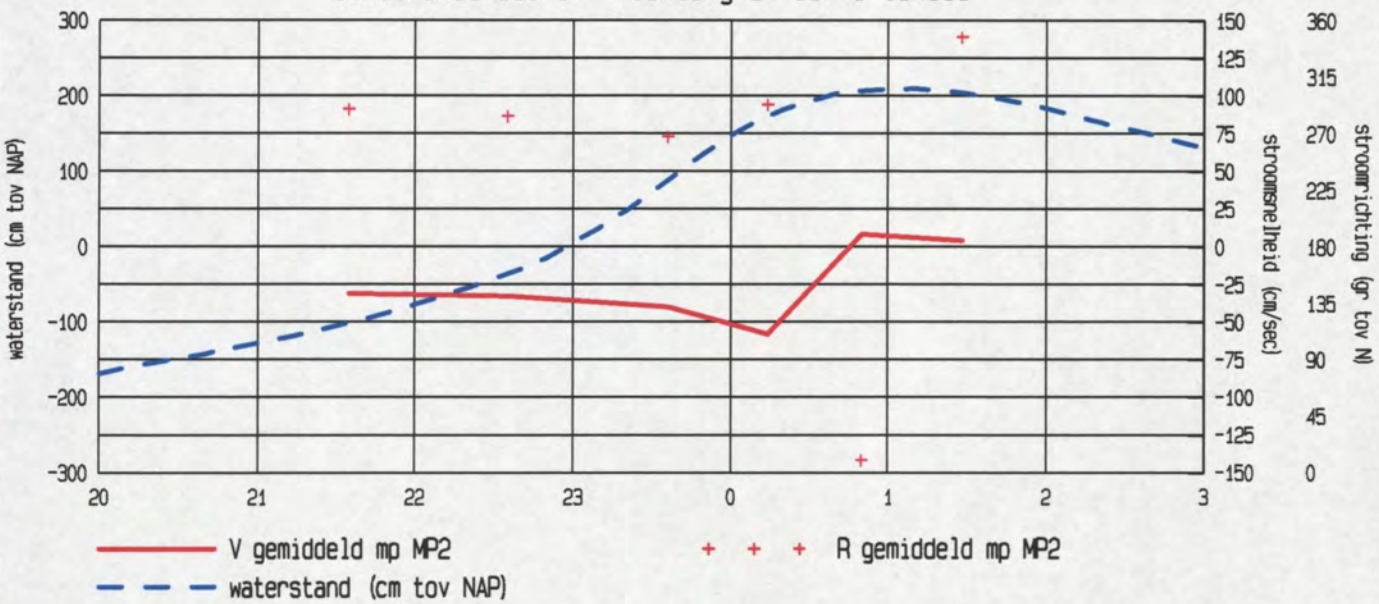
gemeten stroomsnelheid (cm/sec)



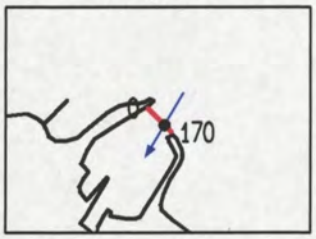
gemeten stroomrichting (gr. tov N)



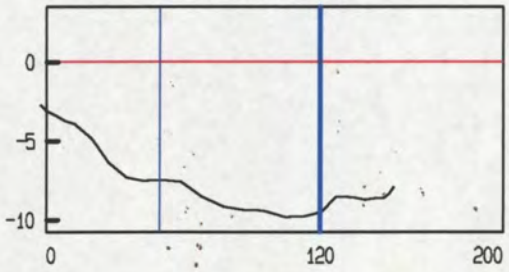
stroomsnelheid en -richting in de vertikaal



meetgebied



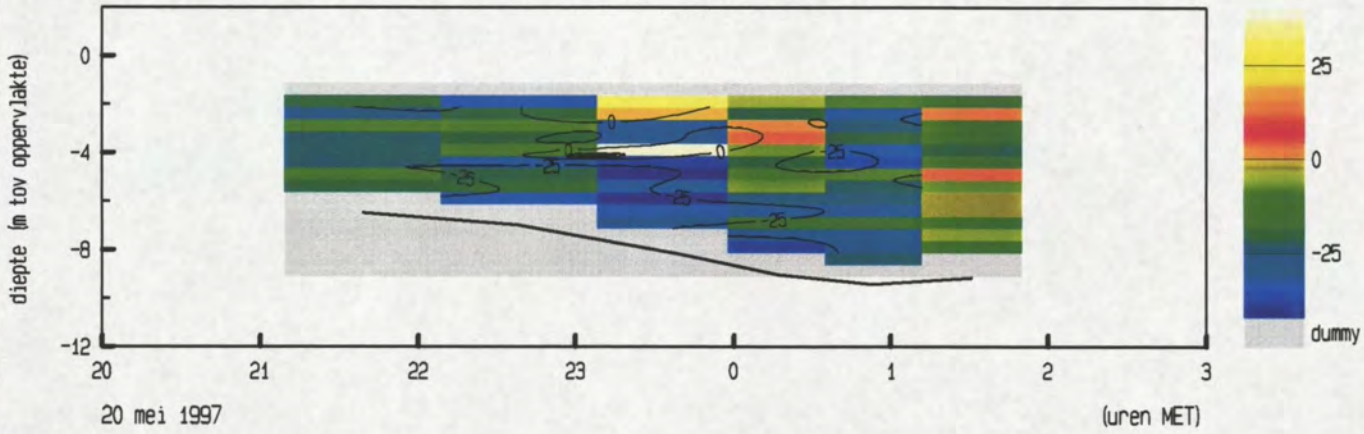
bodemligging



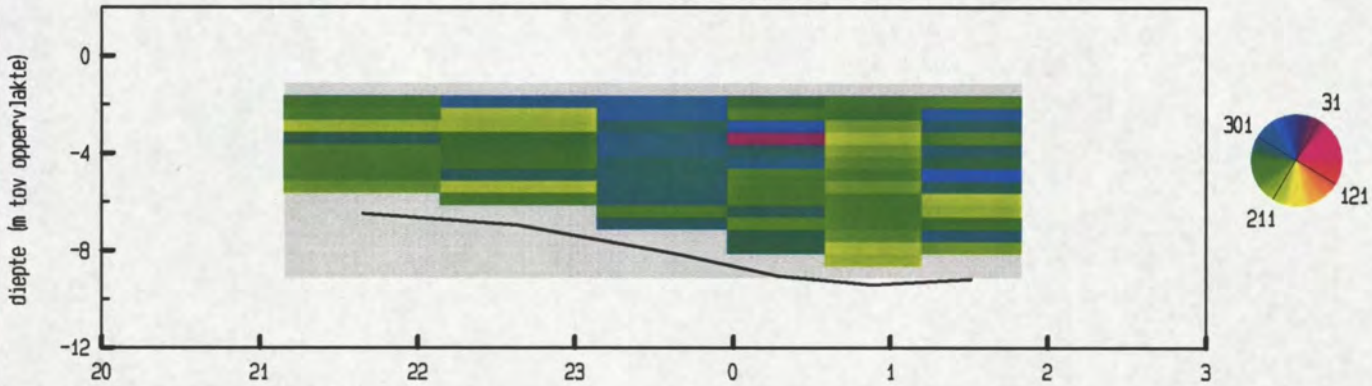
meetpunt MP2
vloedrichting : 211°
positie x : 27355
y : 381165
afstand uit 0-punt : 120 m
bodem tov NAP : - 9.21 m

Veerhaven Breskens dd 20 mei 1997

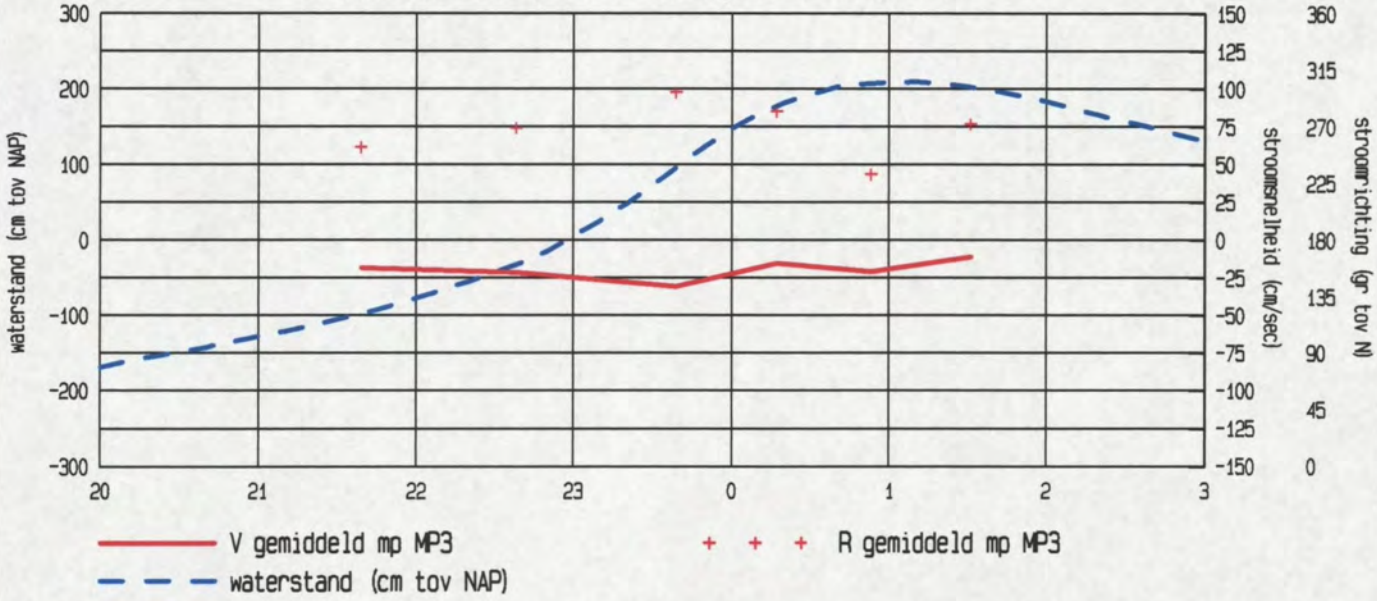
gemeten stroomsnelheid (cm/sec)



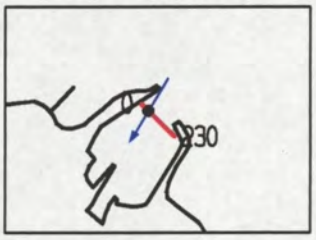
gemeten stroomrichting (gr. tov N)



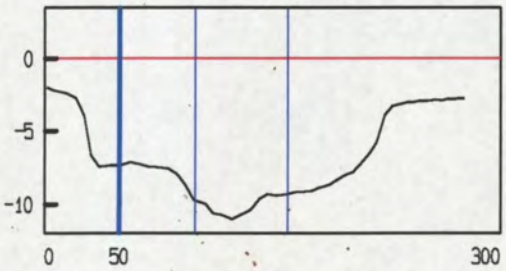
stroomsnelheid en -richting in de vertikaal



meetgebied



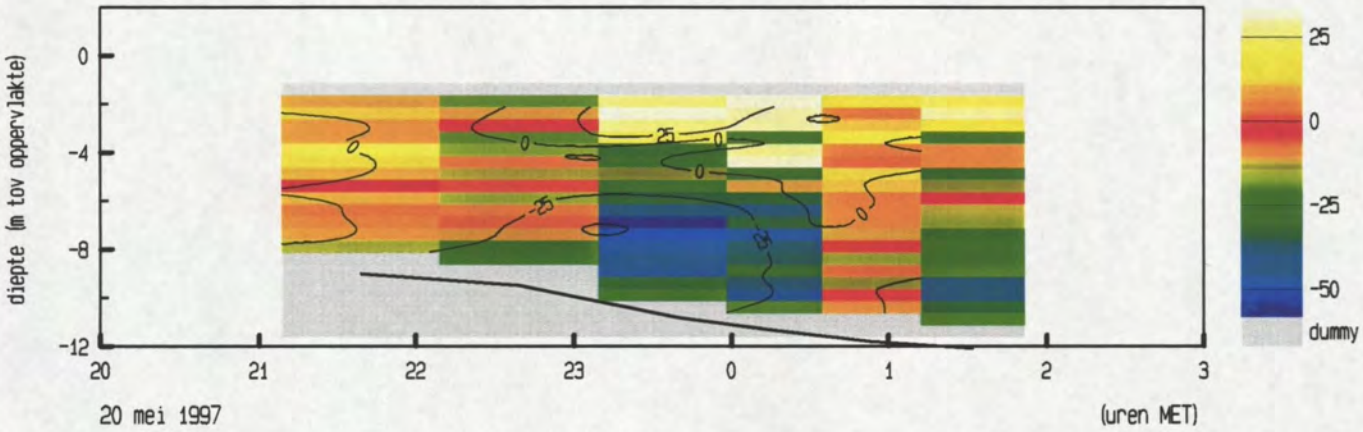
bodemligging



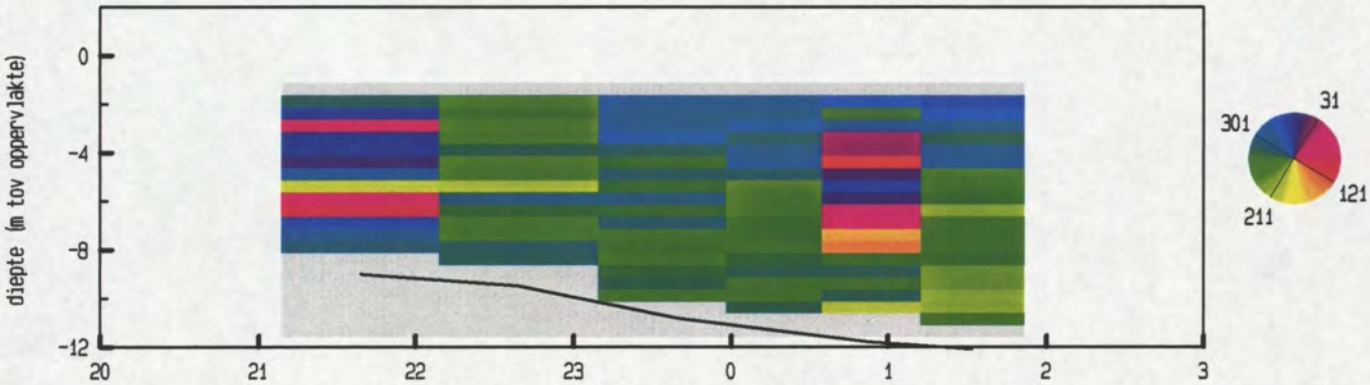
meetpunt		MP3
vloedrichting	:	211°
positie	x :	27245
	y :	381174
afstand uit 0-punt	:	50 m
bodem tov NAP	:	- 7.27 m

Veerhaven Breskens dd 20 mei 1997

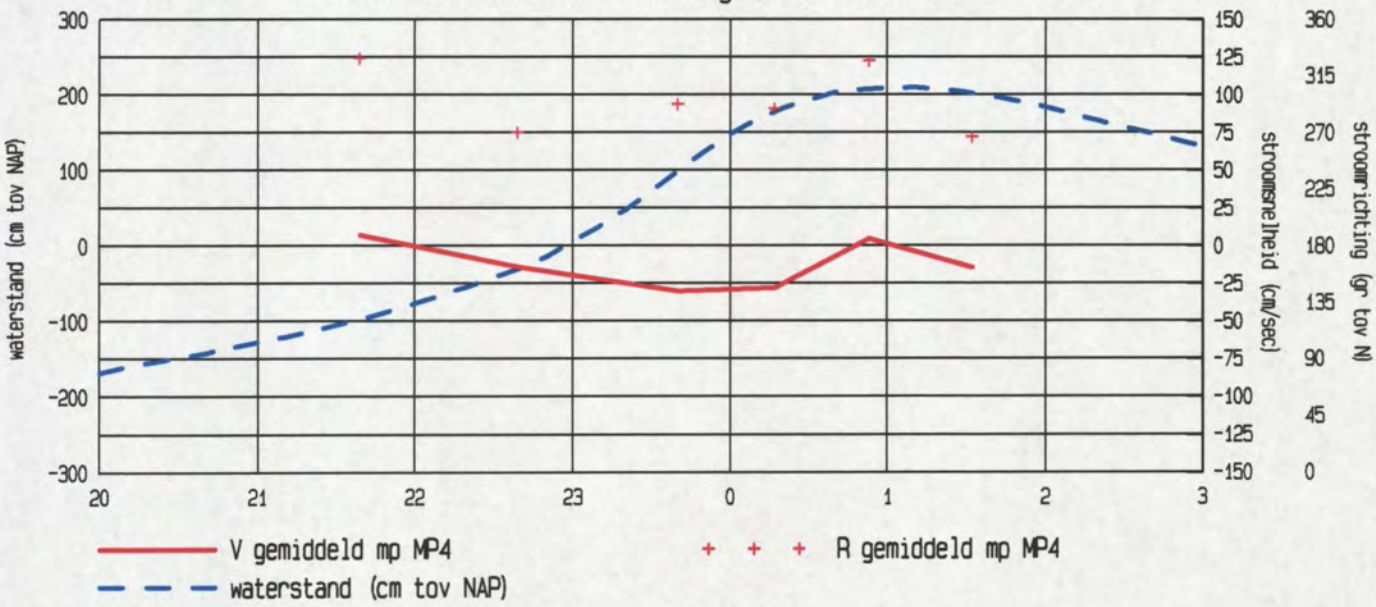
gemeten stroomsnelheid (cm/sec)



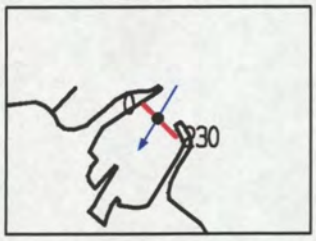
gemeten stroomrichting (gr. tov N)



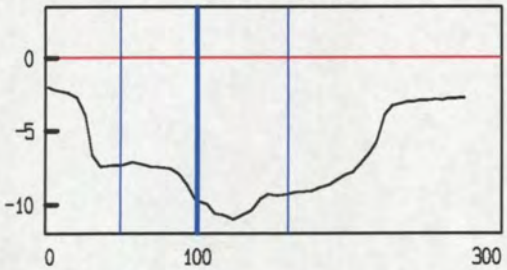
stroomsnelheid en -richting in de vertikaal



meetgebied



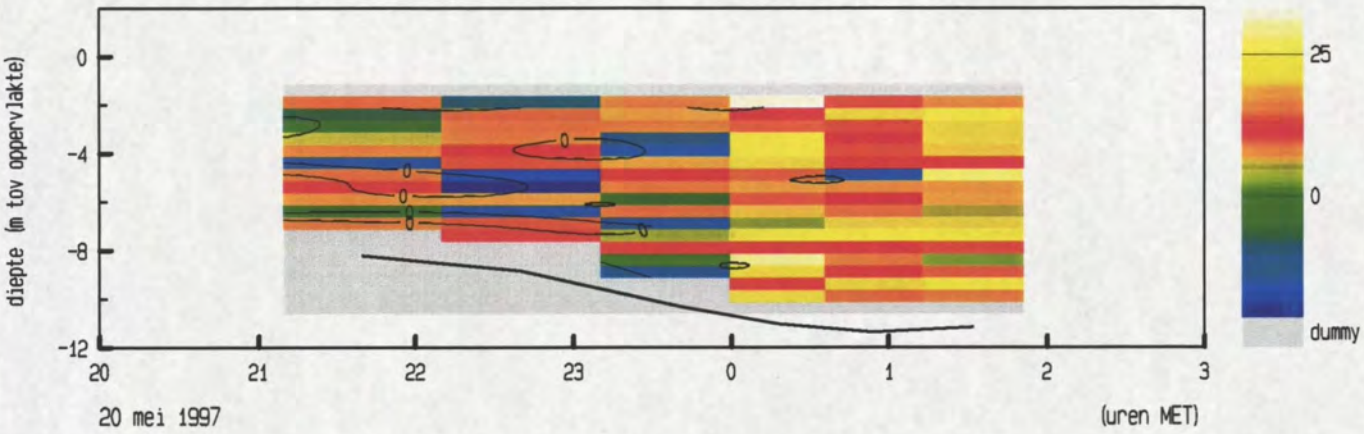
bodemligging



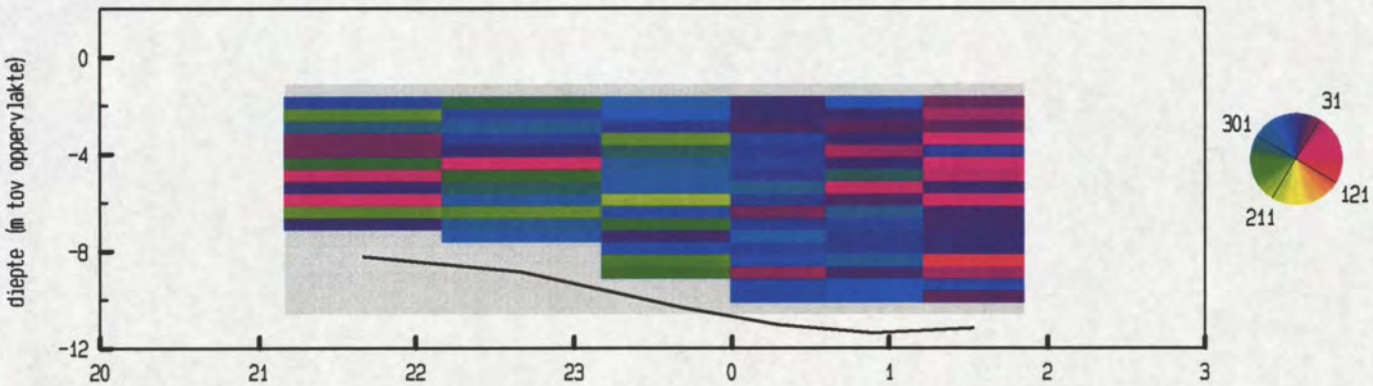
meetpunt		MP4
vloedrichting	:	211°
positie	x :	27280
	y :	381139
afstand uit 0-punt	:	100 m
bodem tov NAP	:	- 9.82 m

Veerhaven Breskens dd 20 mei 1997

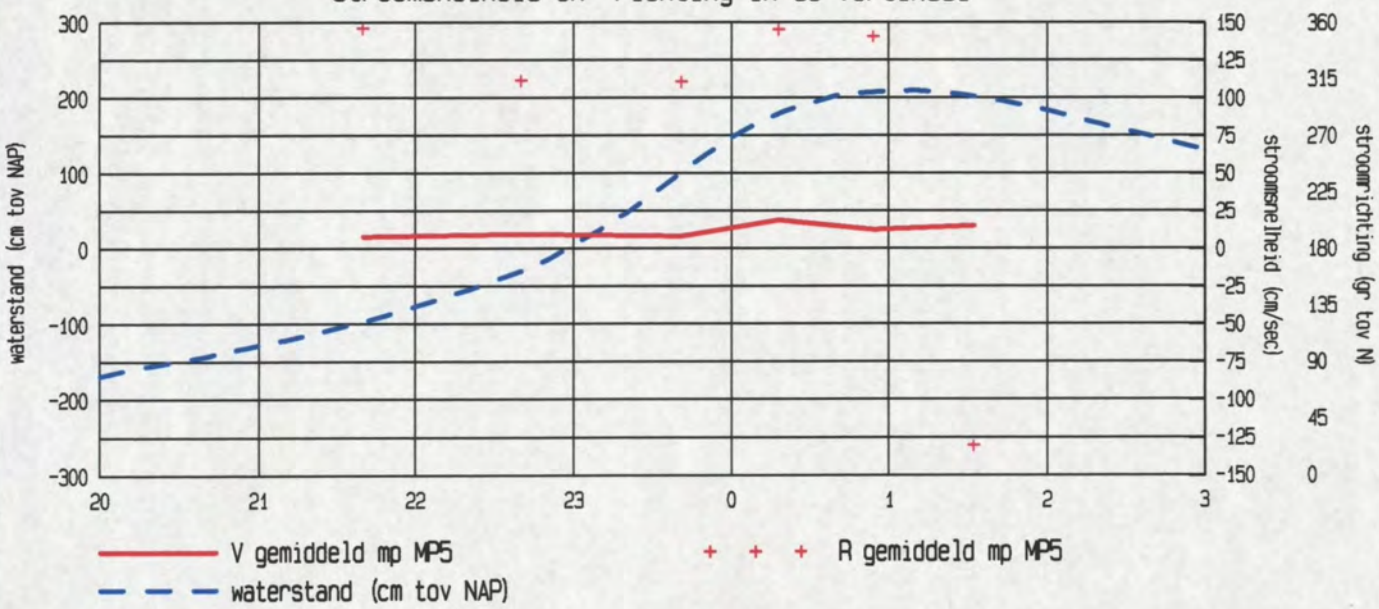
gemeten stroomsnelheid (cm/sec)



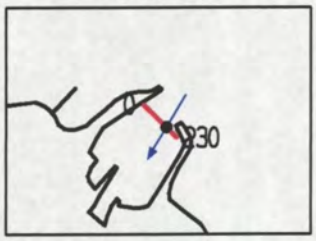
gemeten stroomrichting (gr. tov N)



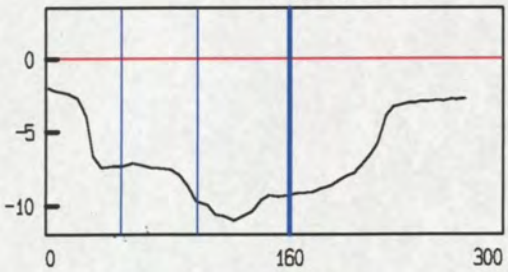
stroomsnelheid en -richting in de vertikaal



meetgebied



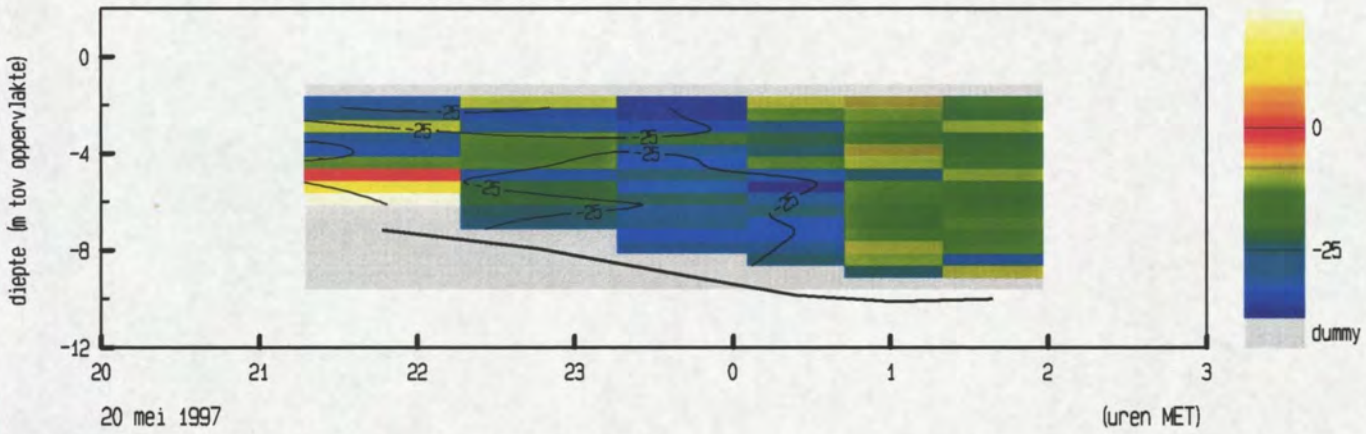
bodemligging



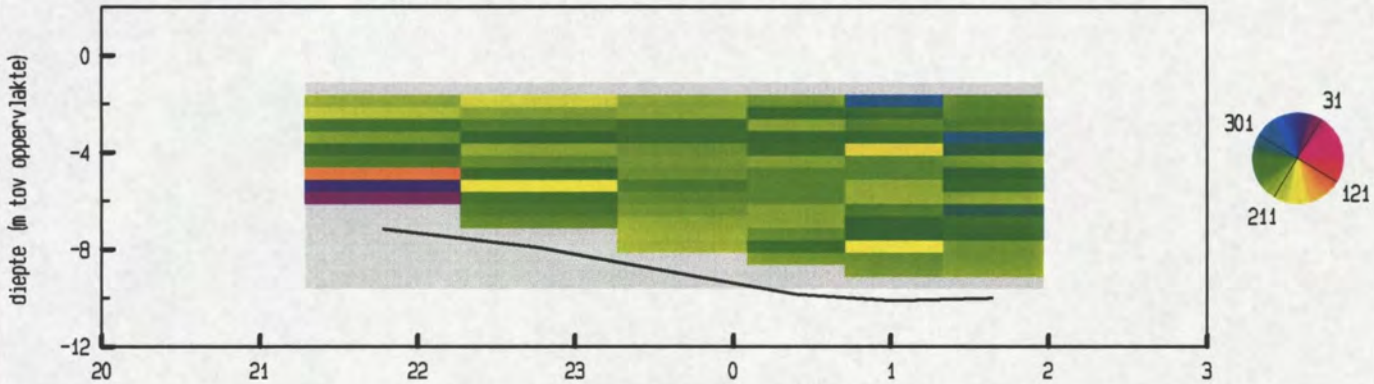
meetpunt		MP5
vloedrichting	:	211°
positie	x :	27323
	y :	381097
afstand uit 0-punt	:	160 m
bodem tov NAP	:	- 9.21 m

Veerhaven Breskens dd 20 mei 1997

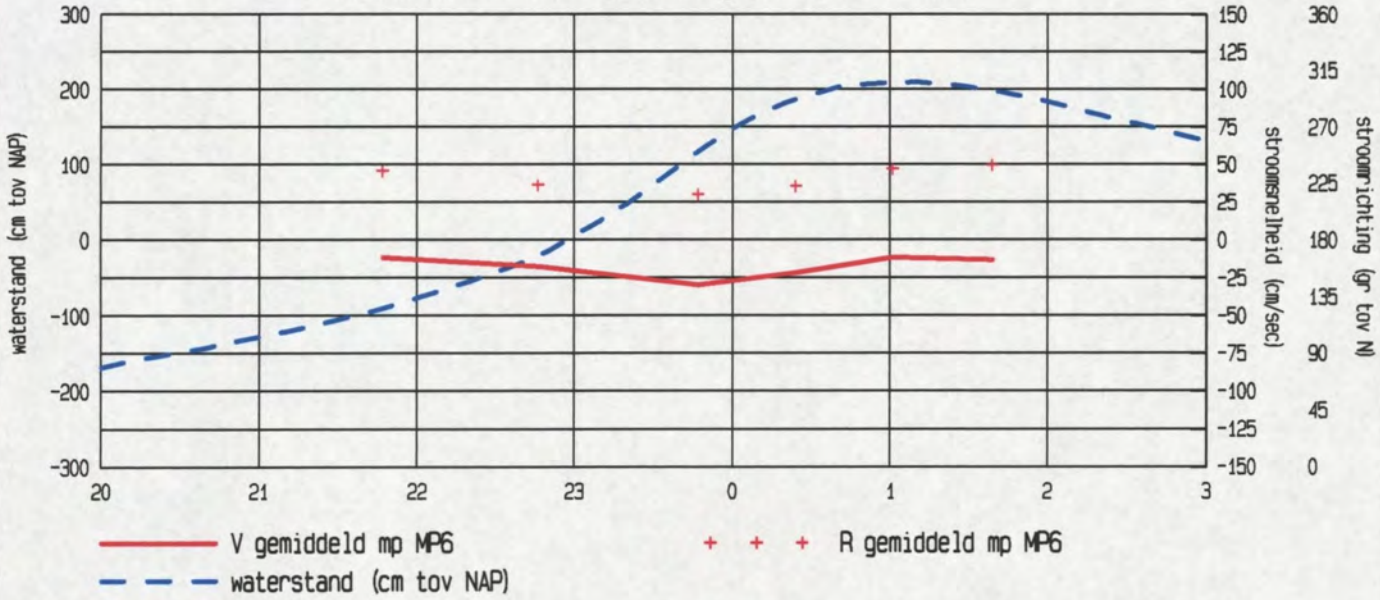
gemeten stroomsnelheid (cm/sec)



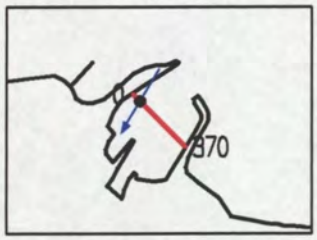
gemeten stroomrichting (gr. tov N)



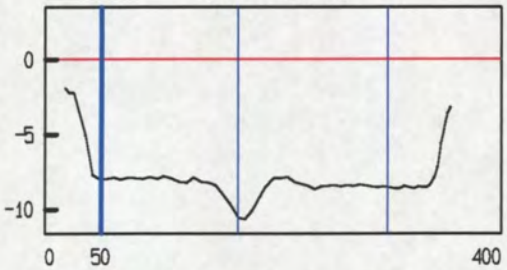
stroomsnelheid en -richting in de vertikaal



meetgebied



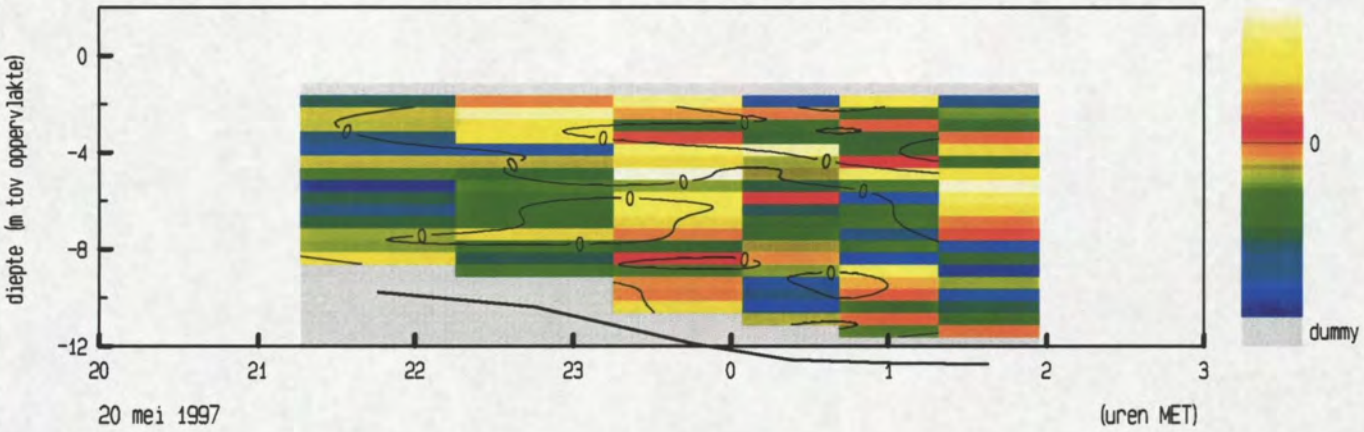
bodemligging



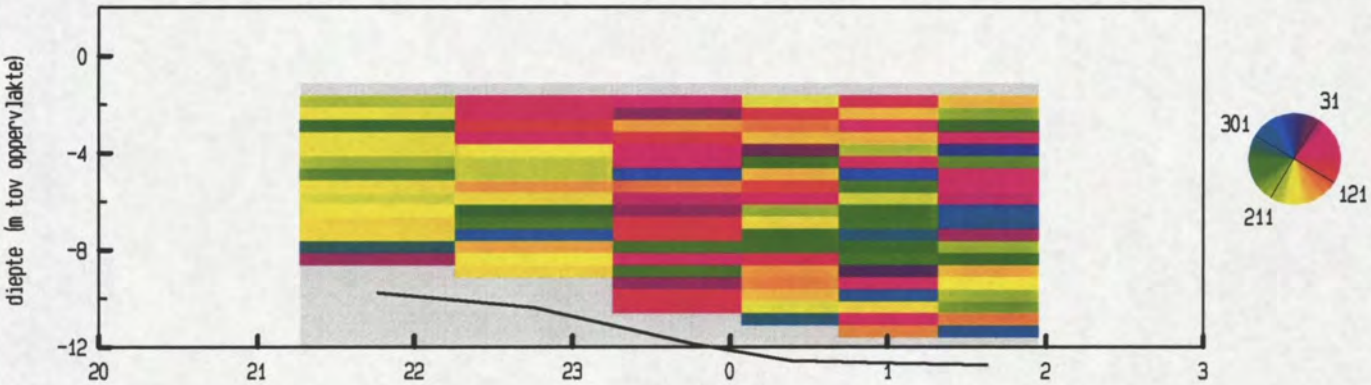
meetpunt MP6
vloedrichting : 211°
positie x : 27105
y : 381094
afstand uit 0-punt : 50 m
bodem tov NAP : - 8.03 m

Veerhaven Breskens dd 20 mei 1997

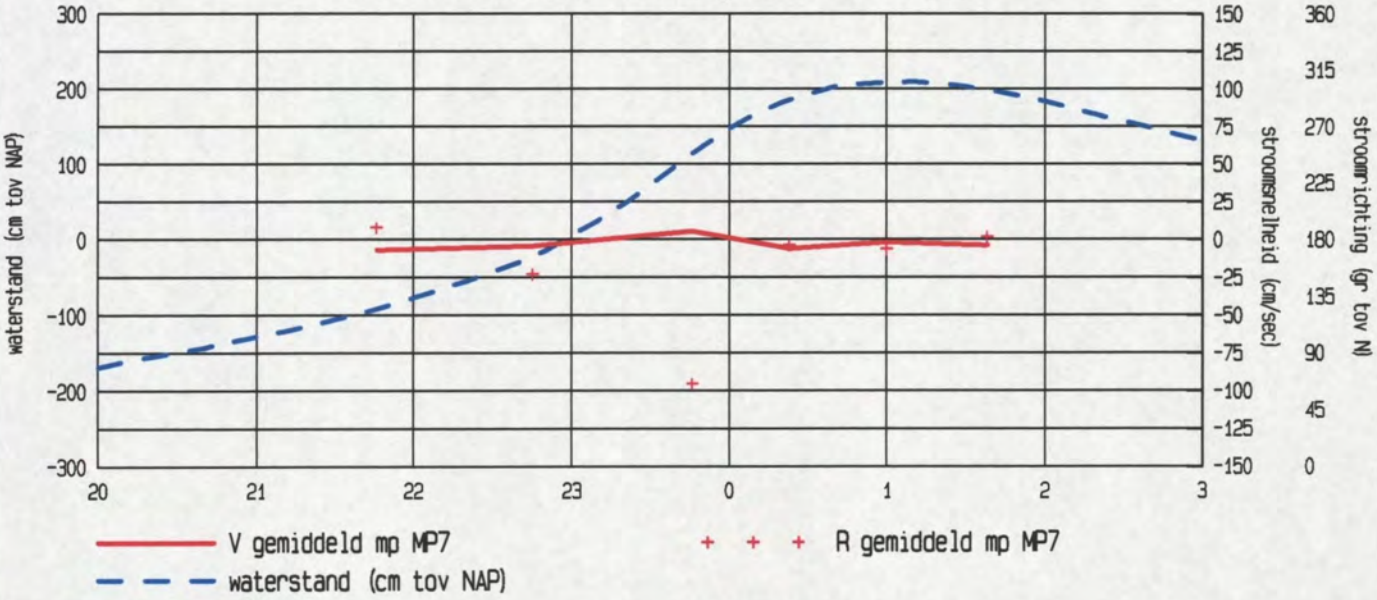
gemeten stroomsnelheid (cm/sec)



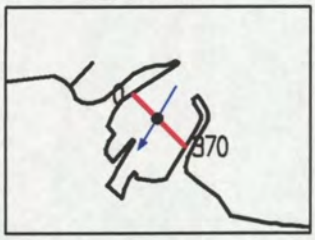
gemeten stroomrichting (gr. tov N)



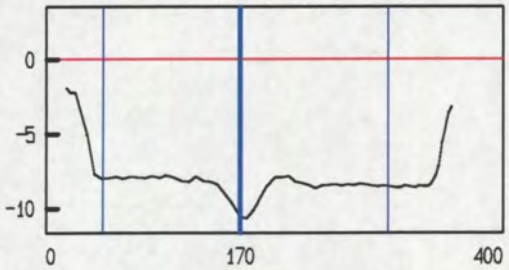
stroomsnelheid en -richting in de vertikaal



meetgebied



bodemligging



meetpunt		MP7
vloedrichting	:	211°
positie	x :	27190
	y :	381010
afstand uit 0-punt	:	170 m
bodem tov NAP	:	- 10.68 m

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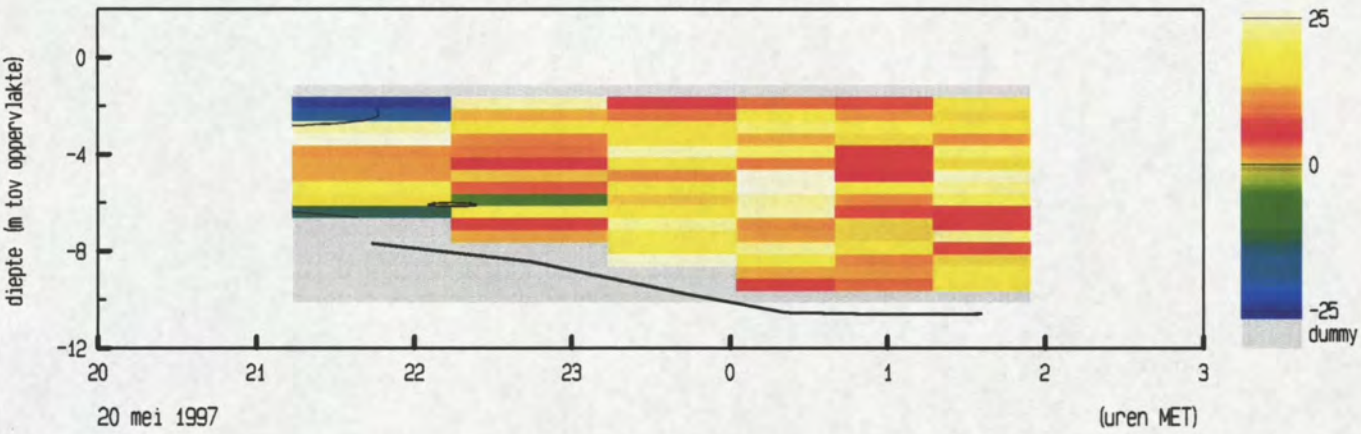
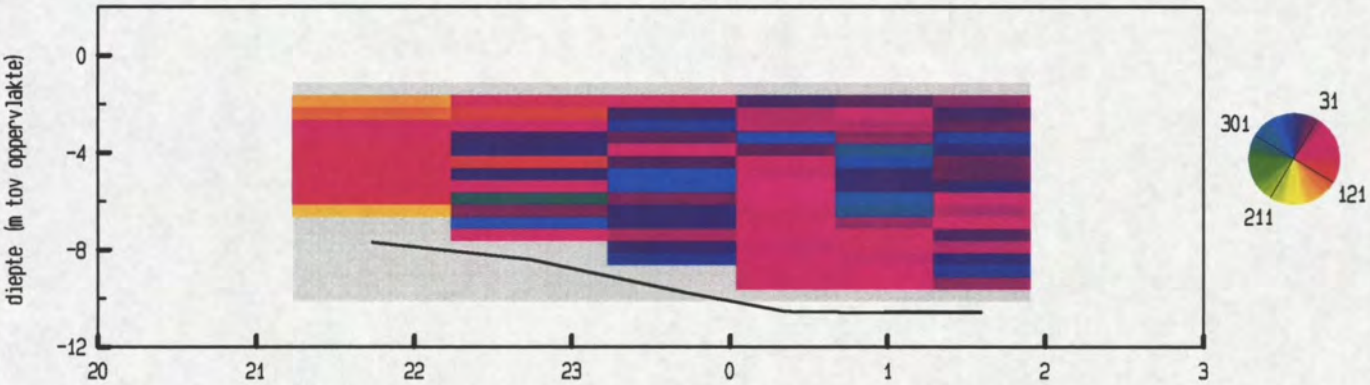
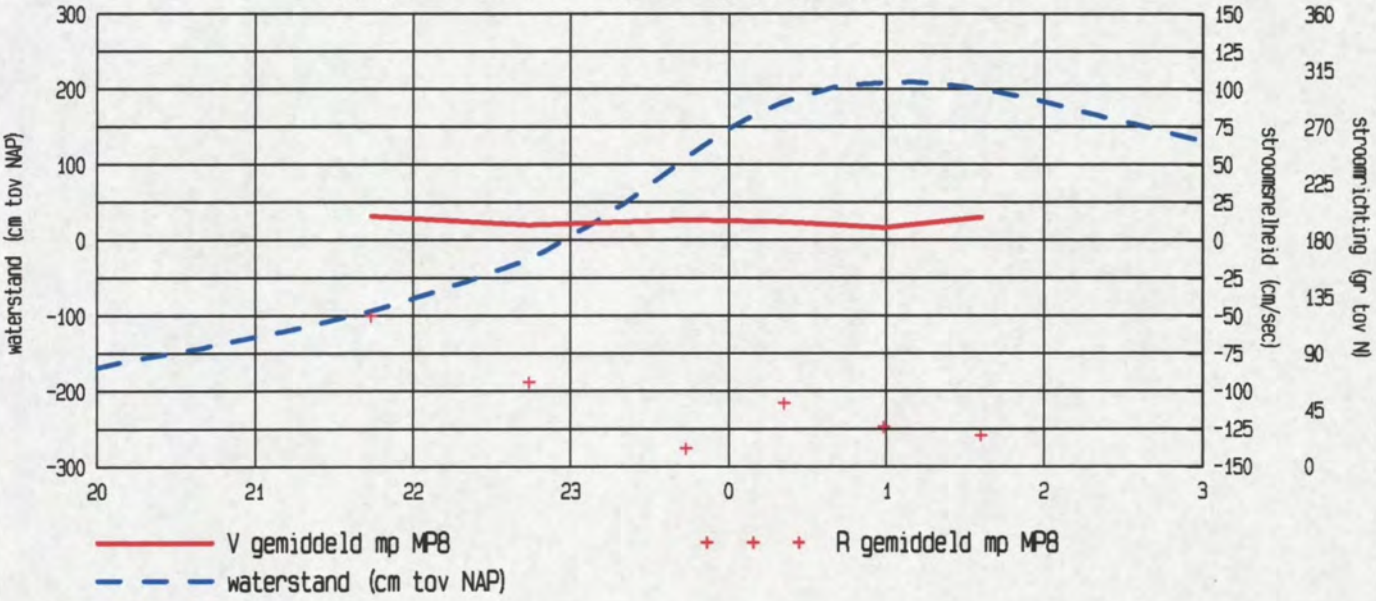
gemeten stroomsnelheid (cm/sec)



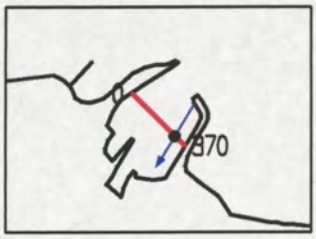
gemeten stroomrichting (gr. tov N)



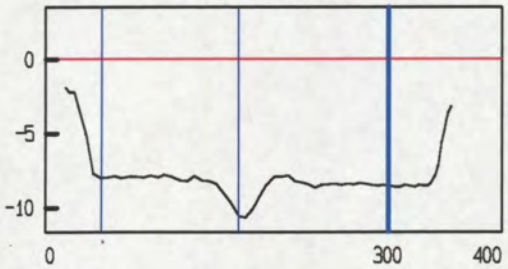
stroomsnelheid en -richting in de vertikaal



meetgebied



bodemligging



meetpunt		MP8
vloedrichting	:	211°
positie	x :	27282
	y :	380918
afstand uit 0-punt	:	300 m
bodem tov NAP	:	- 8.62 m

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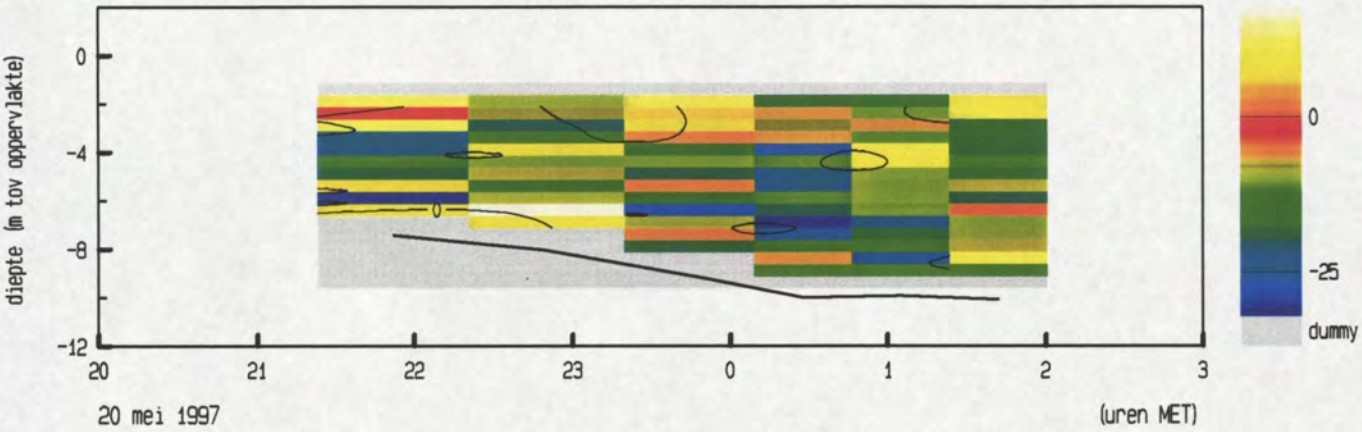
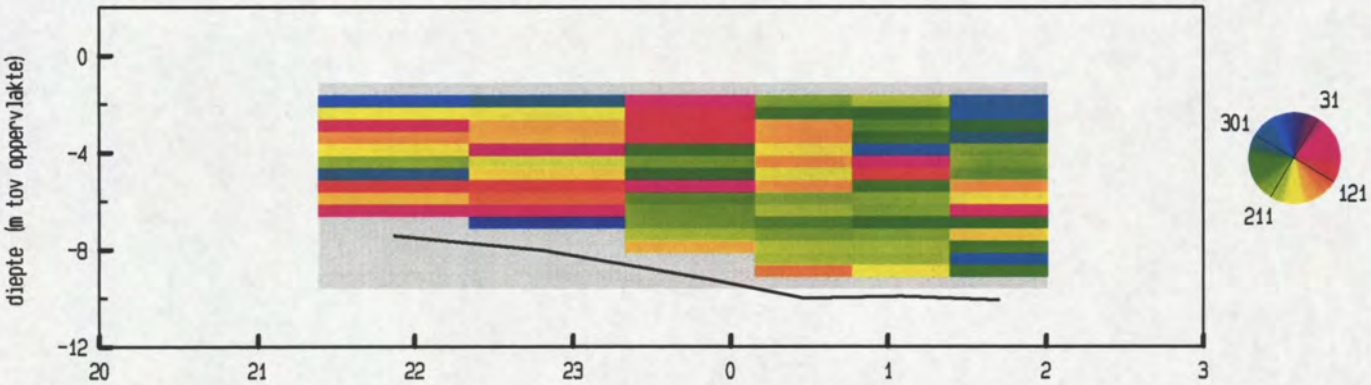
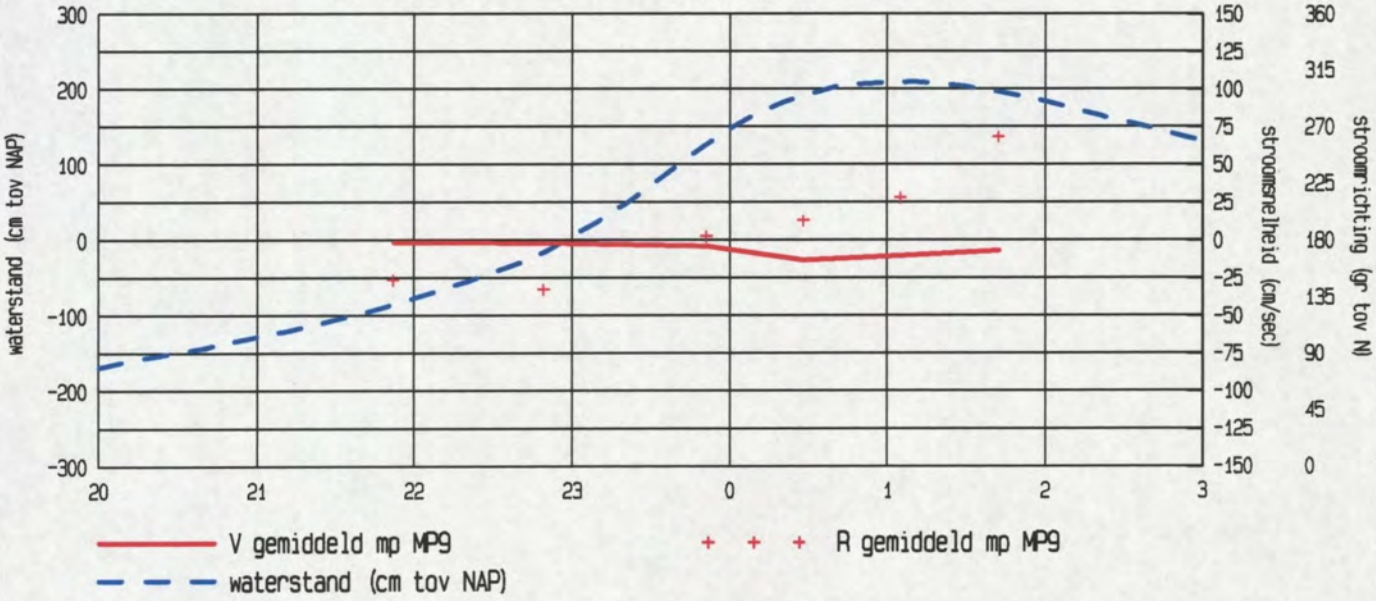
gemeten stroomsnelheid (cm/sec)



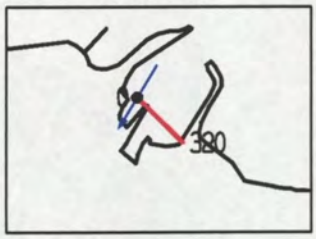
gemeten stroomrichting (gr. tov N)



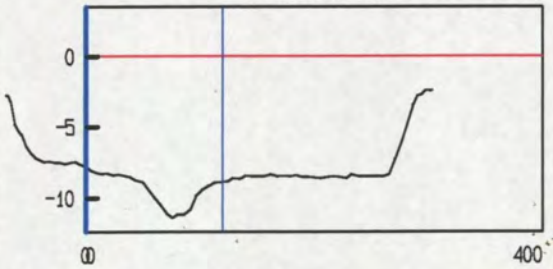
stroomsnelheid en -richting in de vertikaal



meetgebied



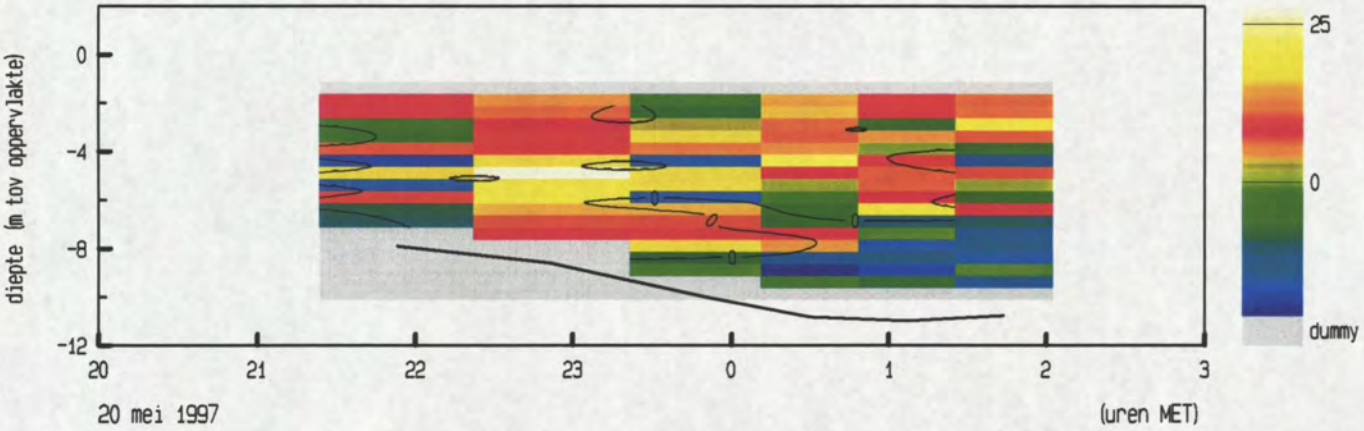
bodemligging



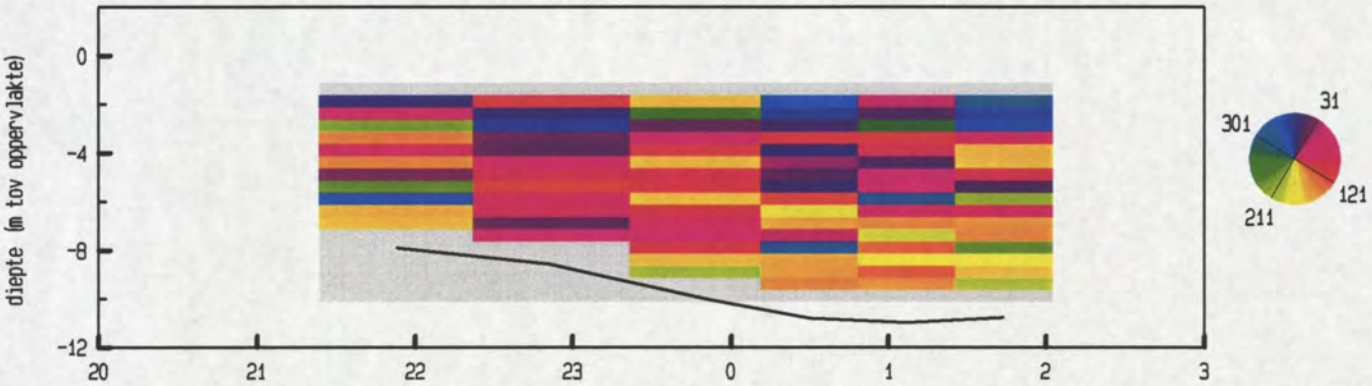
meetpunt MP9
vloedrichting : 211°
positie x : 27024
y : 380944
afstand uit 0-punt : 0 m
bodem tov NAP : - 8.07 m

Veerhaven Breskens dd 20 mei 1997

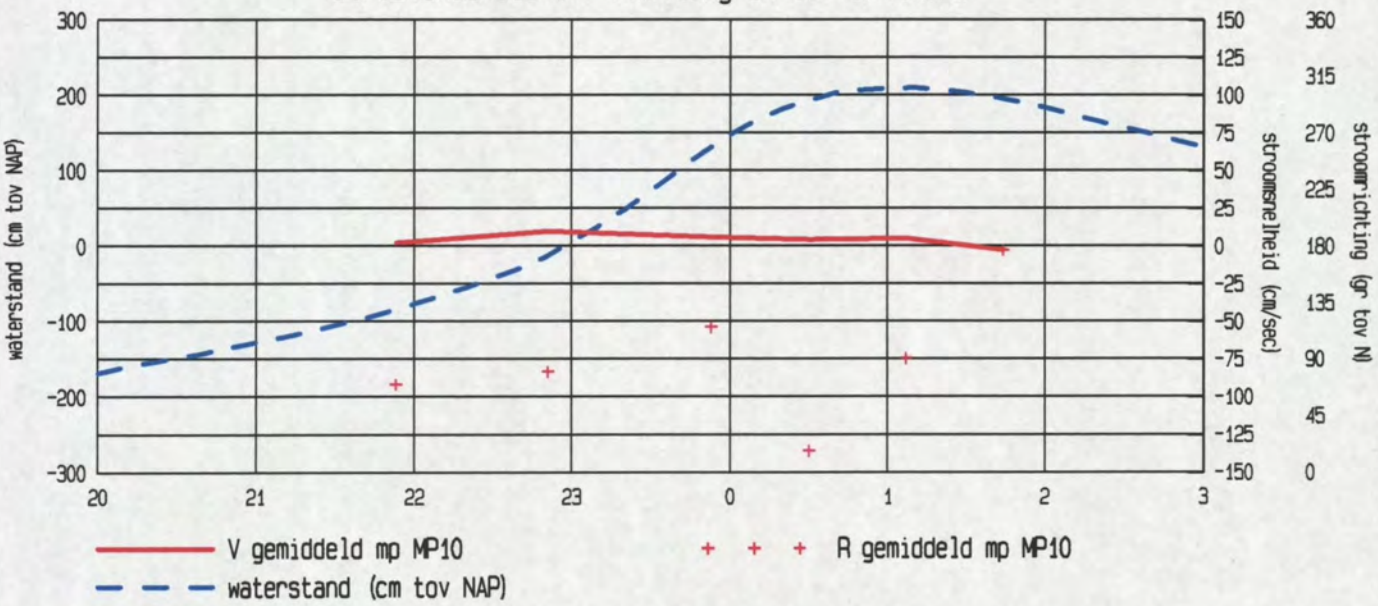
gemeten stroomsnelheid (cm/sec)



gemeten stroomrichting (gr. tov N)

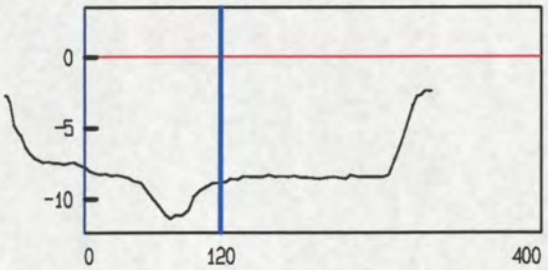


stroomsnelheid en -richting in de vertikaal



meetgebied

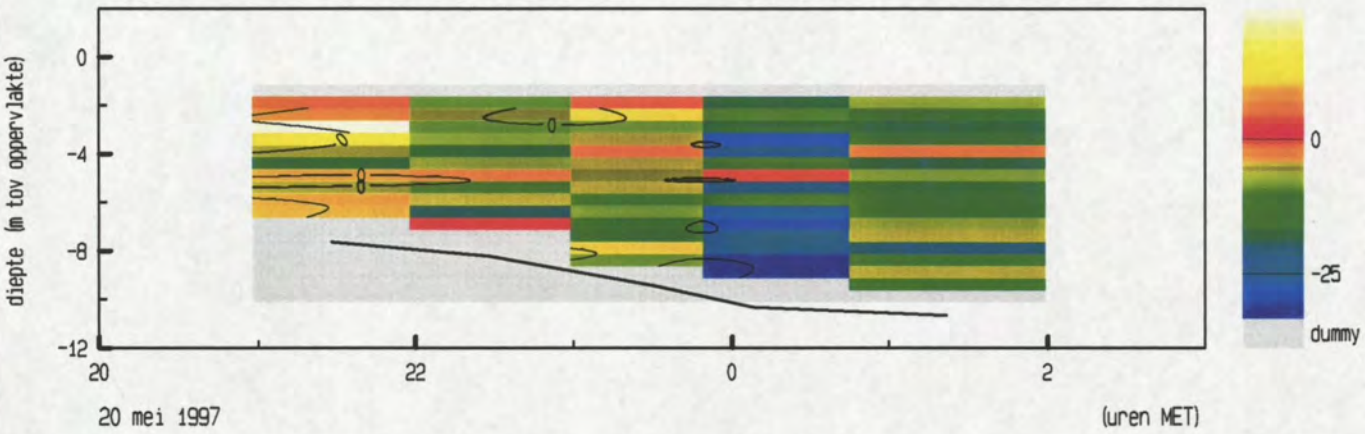
bodemligging



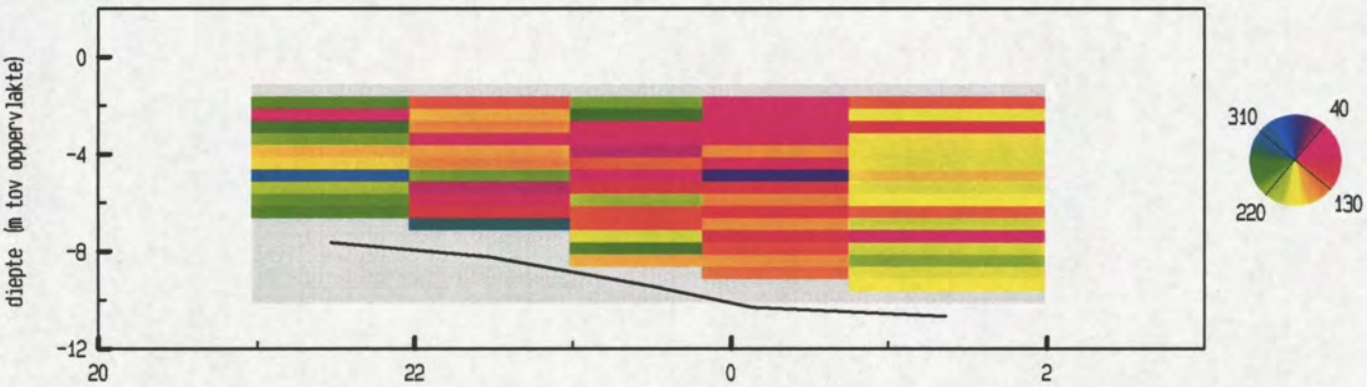
meetpunt		MP10
vloedrichting	:	211°
positie	x :	27109
	y :	380859
afstand uit 0-punt	:	120 m
bodem tov NAP	:	- 8.79 m

Veerhaven Breskens dd 20 mei 1997

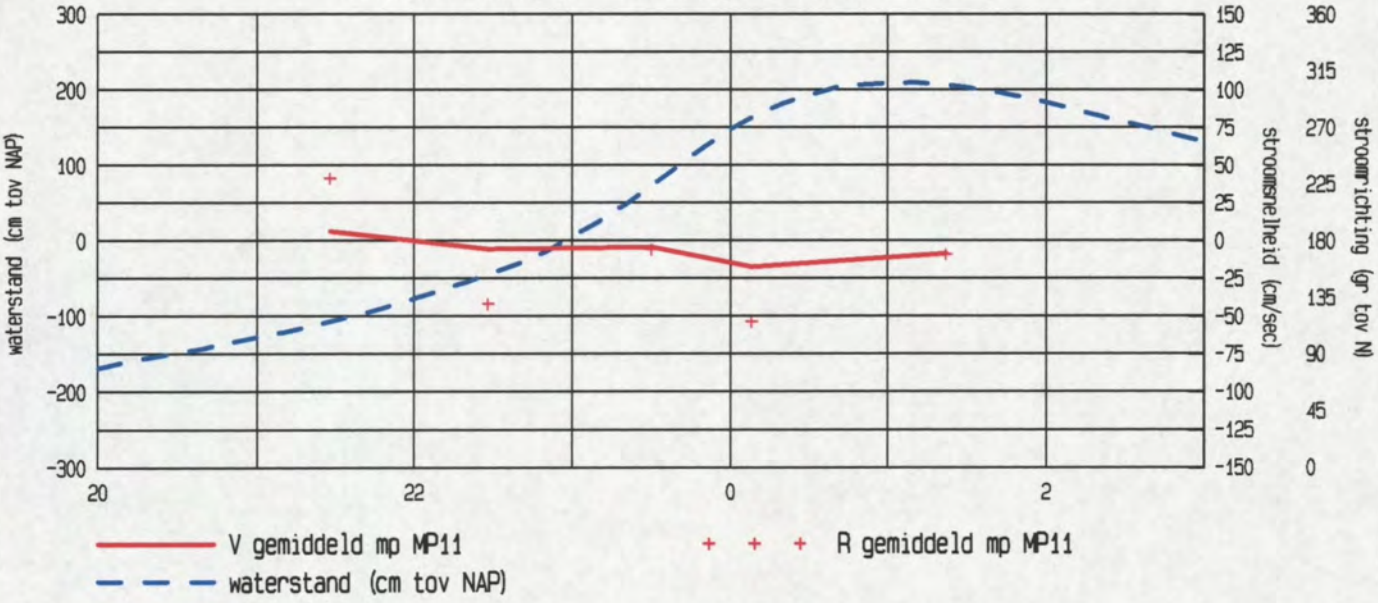
gemeten stroomsnelheid (cm/sec)



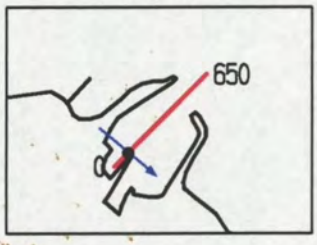
gemeten stroomrichting (gr. tov N)



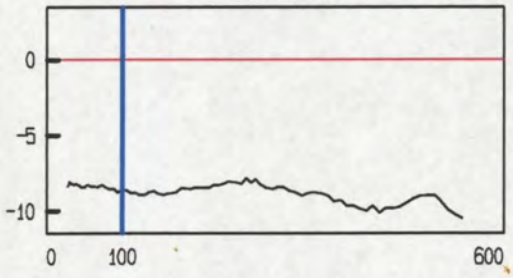
stroomsnelheid en -richting in de vertikaal



meetgebied



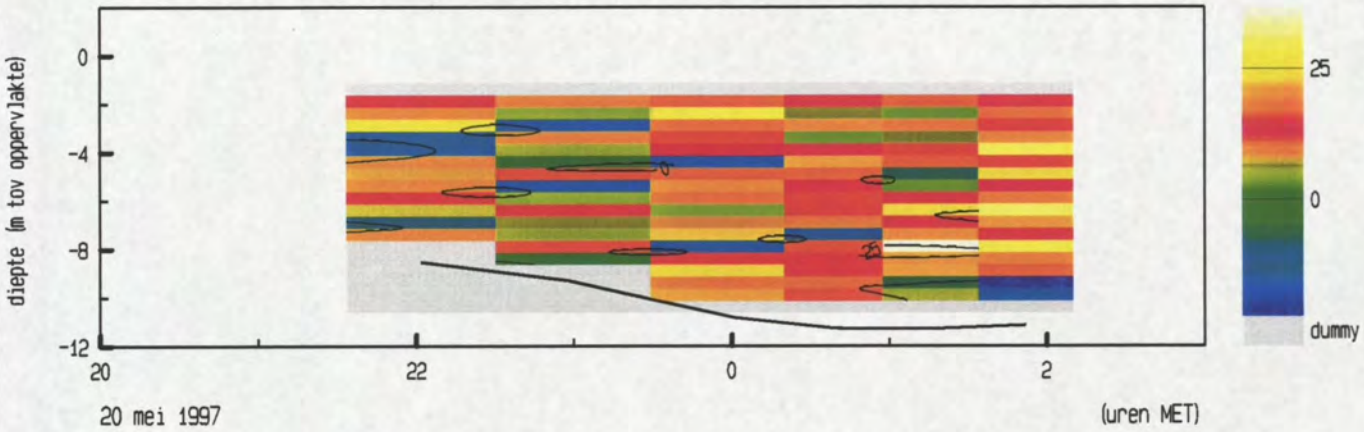
bodemligging



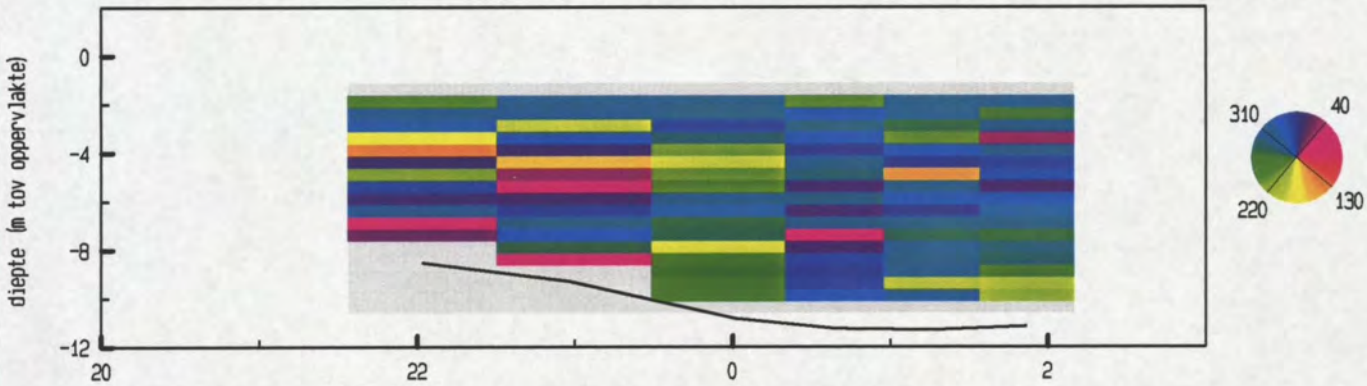
meetpunt		MP11
vloedrichting	:	130°
positie	x :	27061
	y :	380921
afstand uit 0-punt	:	100 m
bodem tov NAP	:-	8.67 m

Veerhaven Breskens dd 20 mei 1997

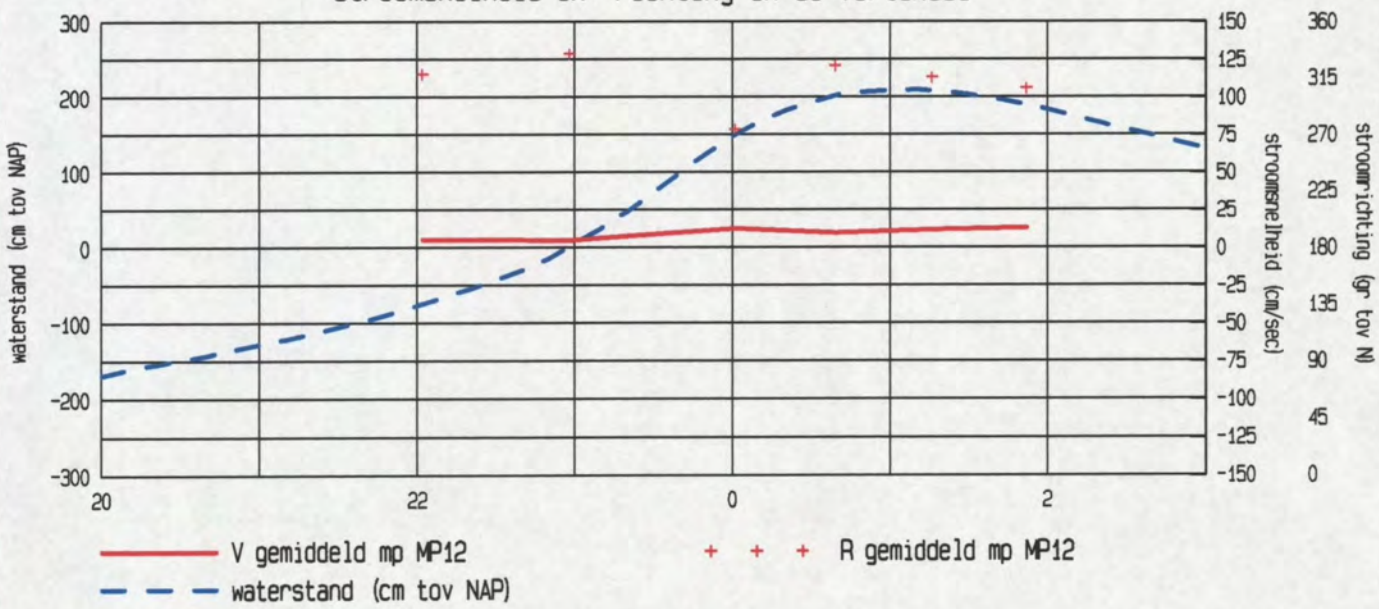
gemeten stroomsnelheid (cm/sec)



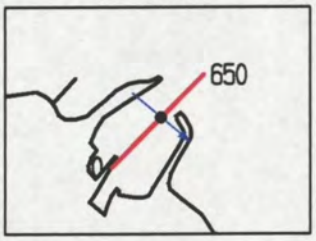
gemeten stroomrichting (gr. tov N)



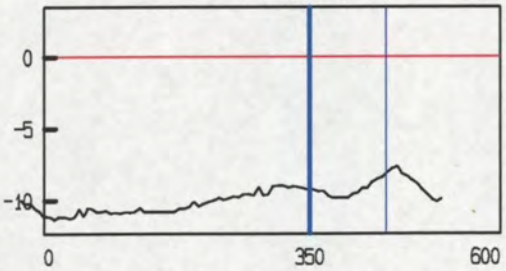
stroomsnelheid en -richting in de vertikaal



meetgebied



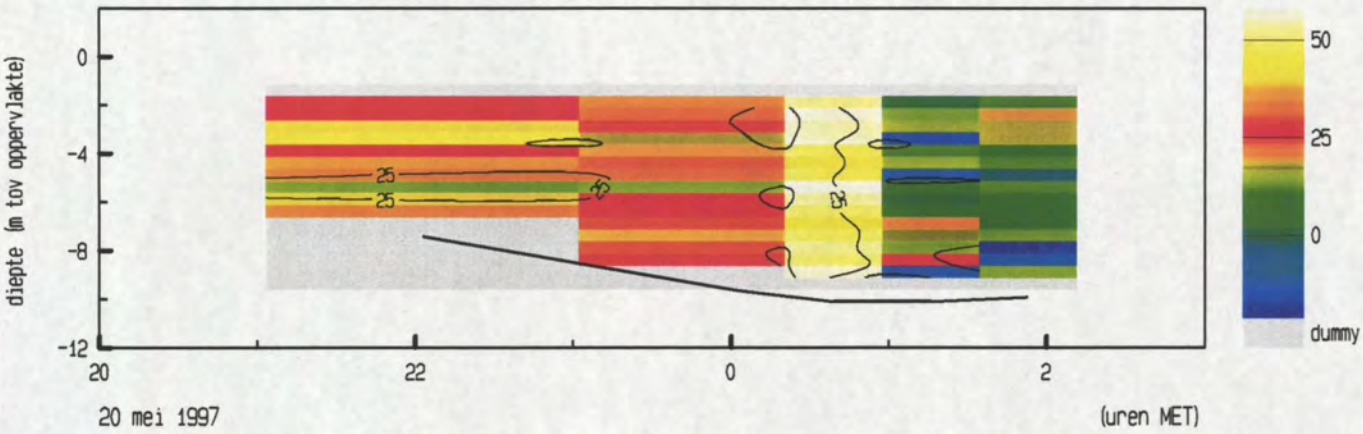
bodemligging



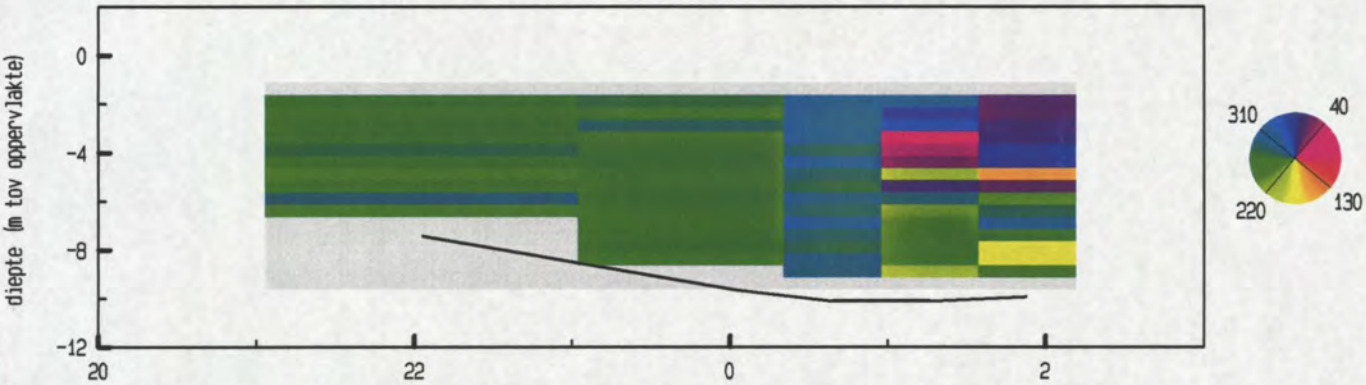
meetpunt MP12
vloedrichting : 130°
positie x : 27298
y : 381097
afstand uit 0-punt : 350 m
bodem tov NAP : - 9.26 m

Veerhaven Breskens dd 20 mei 1997

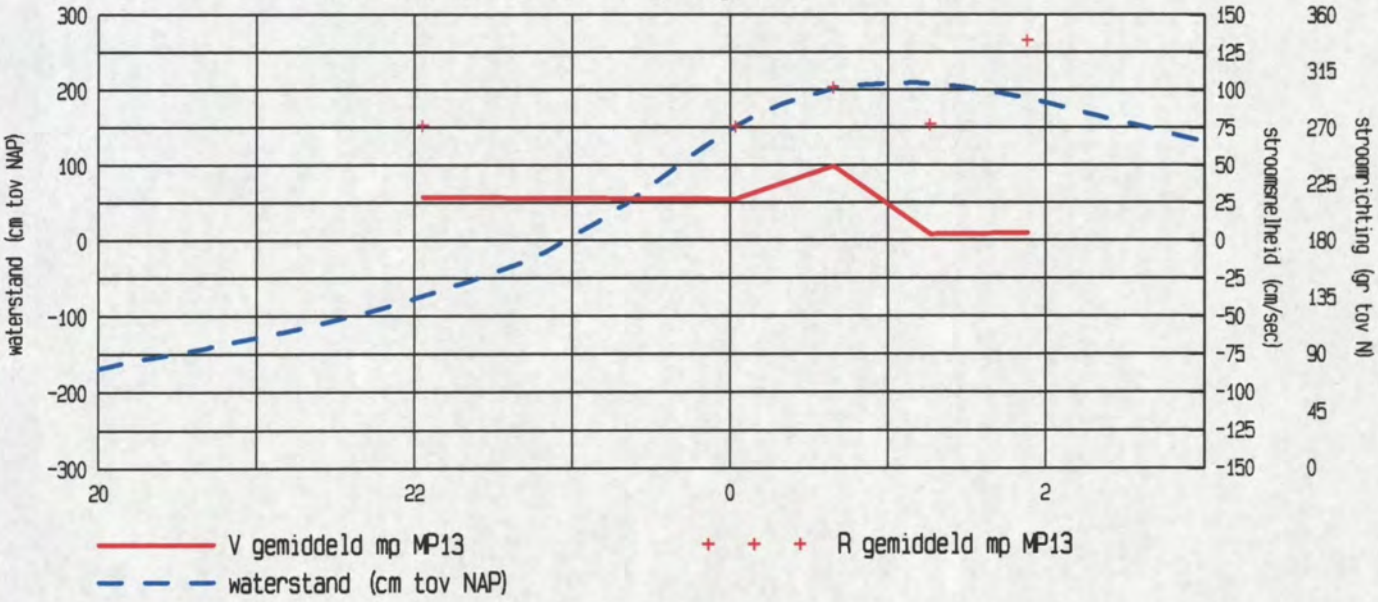
gemeten stroomsnelheid (cm/sec)



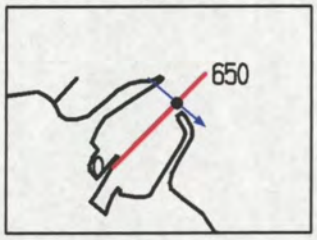
gemeten stroomrichting (gr. tov N)



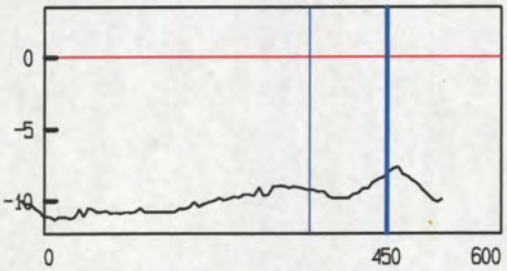
stroomsnelheid en -richting in de vertikaal



meetgebied



bodemligging



meetpunt		MP13
vloedrichting	:	130°
positie	x :	27368
	y :	381168
afstand uit 0-punt	:	450 m
bodem tov NAP	:-	8.09 m