

opdrachtgever:
Rijkswaterstaat
Dienst Getijdewateren

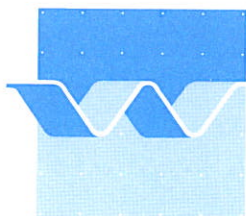
TRISULA berekeningen Seiches Europoort

Seiches- berekeningen in het kader van
de tracé-nota Europoortkering

deel II: figuren
november 1991

TRISULA berekeningen Seiches Europoort

Seiches- berekeningen in het kader van
de tracé-nota Europoortkering



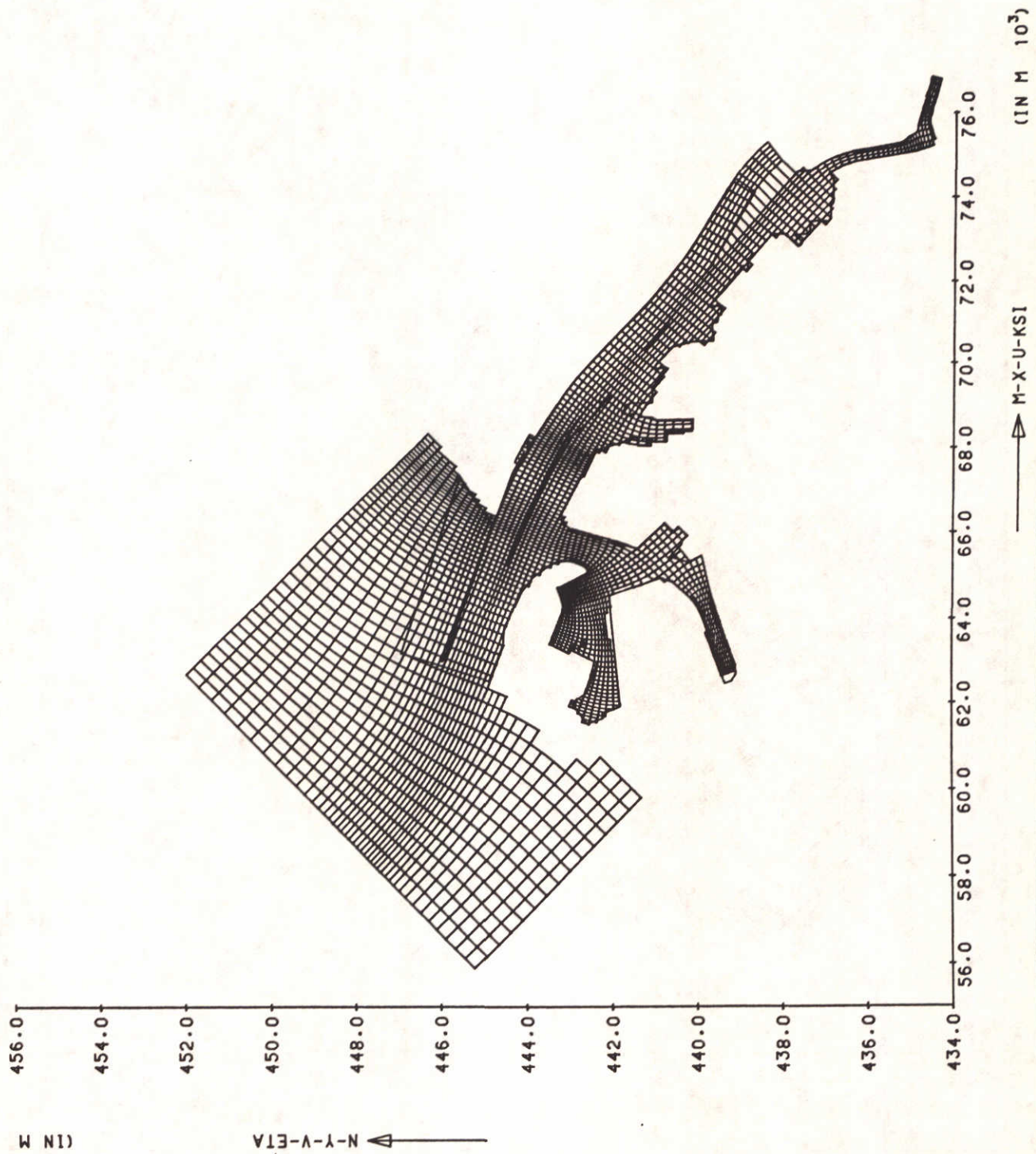
Lijst van figuren

Figuur nr

1. Roosterschematisering van het originele WAQUA SEUR-model	
2. Roosterschematisering van het huidige SEUR-model met het Hartelkanaal en de haventerreinen	
3. Diepteschematisering	
4. Diepteschematisering haventerreinen	
5. Posities van stations	
6. Schematisering DODD	
7. Schematisering ODDD	
8. Schematisering ODDD + damlijn	
9. SO1, (DODD + 5 m); tijdreeksen van waterstanden	1, 3, 4
10. "	7, 11, 12
11. "	13, 18, 19
12. "	21, 25, 27
13. "	29, 31, 32
14. "	Z1, Z2, Z3
15. "	Z4, Z5, 12A
16. SO1, (DODD + 5 m); amplitudespectra van	1, 3, 4
17. "	7, 11, 12
18. "	13, 18, 19
19. "	21, 25, 27
20. "	29, 31, 32
21. "	Z1, Z2, Z3
22. "	Z4, Z5, 12A
23. SO2, (DODD + 2.5); amplitudespectra van	1, 3, 4
24. "	7, 11, 12
25. "	13, 18, 19
26. "	21, 25, 27
27. "	29, 31, 32
28. OD6, (ODDD + 5.0); amplitudespectra van	1, 3, 4
29. "	7, 11, 12
30. "	13, 18, 19
31. "	21, 25, 27
32. "	29, 31, 32
33. OD7, (ODDD + 5.0 + damlijn); spectra	1, 3, 4
34. "	7, 11, 12
35. "	13, 18, 19
36. "	Z1, Z2, Z3
37. "	Z4, Z5, 12A
38. DM8, (DODD + 5.0); tijdreeksen van waterstanden	1, 3, 4
39. "	7, 11, 12
40. "	13, 18, 19
41. "	21, 25, 27
42. "	29, 31, 32
43. "	Z1, Z2, Z3
44. "	Z4, Z5, 12A
45. DM8, (DODD + 5.0); isolijnen amplitudes	veld 1
46. "	2
47. "	3
48. "	4
49. "	5
50. "	6
51. DM8, (DODD + 5.0); vectorveld van snelheden	veld 1
52. "	2
53. "	3

54.	''	veld	4
55.	''		5
56.	''		6
57.	DM7, (DODD + 5.0); tijdreeksen van waterstanden	1, 3, 4	
58.	''	7, 11, 12	
59.	''	13, 18, 19	
60.	''	21, 25, 27	
61.	''	29, 31, 32	
62.	DM7, (DODD + 5.0); isolijnen amplitudes		
63.	''		
64.	DM7, (DODD + 5.0); vectorveld van snelheden		
65.	''		
66.	DM9, (DODD + 5.0); tijdreeksen van waterstanden	1, 3, 4	
67.	''	7, 11, 12	
68.	''	13, 18, 19	
69.	''	21, 25, 27	
70.	''	29, 31, 32	
71.	DM9, (DODD + 5.0); isolijnen amplitudes		
72.	''		
73.	DM9, (DODD + 5.0); vectorveld van snelheden		
74.	''		
75.	OM1, (ODDD + 5.0); tijdreeksen van waterstanden	1, 3, 4	
76.	''	7, 11, 12	
77.	''	13, 18, 19	
78.	OM1, (ODDD + 5.0); isolijnen amplitudes		
79.	''		
80.	OM1, (ODDD + 5.0); vectorveld van snelheden		
81.	''		
82.	OM2, (ODDD + 5.0); tijdreeksen van waterstanden	1, 3, 4	
83.	''	7, 11, 12	
84.	''	13, 18, 19	
85.	OM2, (ODDD + 5.0); isolijnen amplitudes		
86.	''		
87.	OM2, (ODDD + 5.0); vectorveld van snelheden		
88.	''		
89.	OM3, (ODDD + 5.0); tijdreeksen van waterstanden	1, 3, 4	
90.	''	7, 11, 12	
91.	''	13, 18, 19	
92.	OM3, (ODDD + 5.0); isolijnen amplitudes		
93.	''		
94.	OM3, (ODDD + 5.0); vectorveld van snelheden		
95.	''		
96.	DL1, (DODD + 2.5); tijdreeksen van waterstanden	1, 3, 4	
97.	''	7, 11, 12	
98.	''	13, 18, 19	
99.	''	21, 25, 27	
100.	''	29, 31, 32	
101.	DL1, (DODD + 2.5); tijdreeksen van snelheden	A, B, C	
102.	''	D, E, F	
103.	DL1, (DODD + 2.5); isolijnen amplitudes		
104.	''		
105.	DL1, (DODD + 2.5); vectorveld van snelheden		
106.	''		
107.	OL1, (DODD + 2.5); tijdreeksen van waterstanden	1, 3, 4	
108.	''	7, 11, 12	
109.	''	13, 18, 19	
110.	''	21, 25, 27	
111.	''	29, 31, 32	

112	OL1, (DODD + 2.5); tijdreeksen van snelheden	A, B, C
113	" "	D, E, F
114	OL1, (DODD + 2.5); isolijnen amplitudes	
115	" "	
116	OL1, (DODD + 2.5); vectorveld van snelheden	
117	" "	
118	TST testsom filter spectra van	Z1, Z2, Z3
129	" "	Z4, Z5
120	TSO testsom filter spectra van	Z1, Z2, Z3
121	" "	Z4, Z5
122	TSO testsom filter spectra van	Z1, Z2, Z3
123	" "	Z4, Z5
124	TST filterresultaat	Z1-Z2, Z2-Z4, Z3-Z5
125	" "	Z1-Z3, Z1-Z4, Z1-Z5
126	TSO filterresultaat	Z1-Z2, Z2-Z4, Z3-Z5
127	" "	Z1-Z3, Z1-Z4, Z1-Z5
128	TSO filterresultaat	Z1-Z2, Z2-Z4, Z3-Z5
129	" "	Z1-Z3, Z1-Z4, Z1-Z5
130	S01 filterresultaat	Z2-Z3, Z3-Z4, Z4-Z5
131	" "	Z1-Z3, Z1-Z4, Z1-Z5
132	" "	Z2-Z3, Z3-Z4, Z4-Z5
133	SD2, afgesloten S01, geometrie met afgeloten haveningang	
134	" " spectra van	Z1, Z2, Z3
135	" "	Z4, Z5



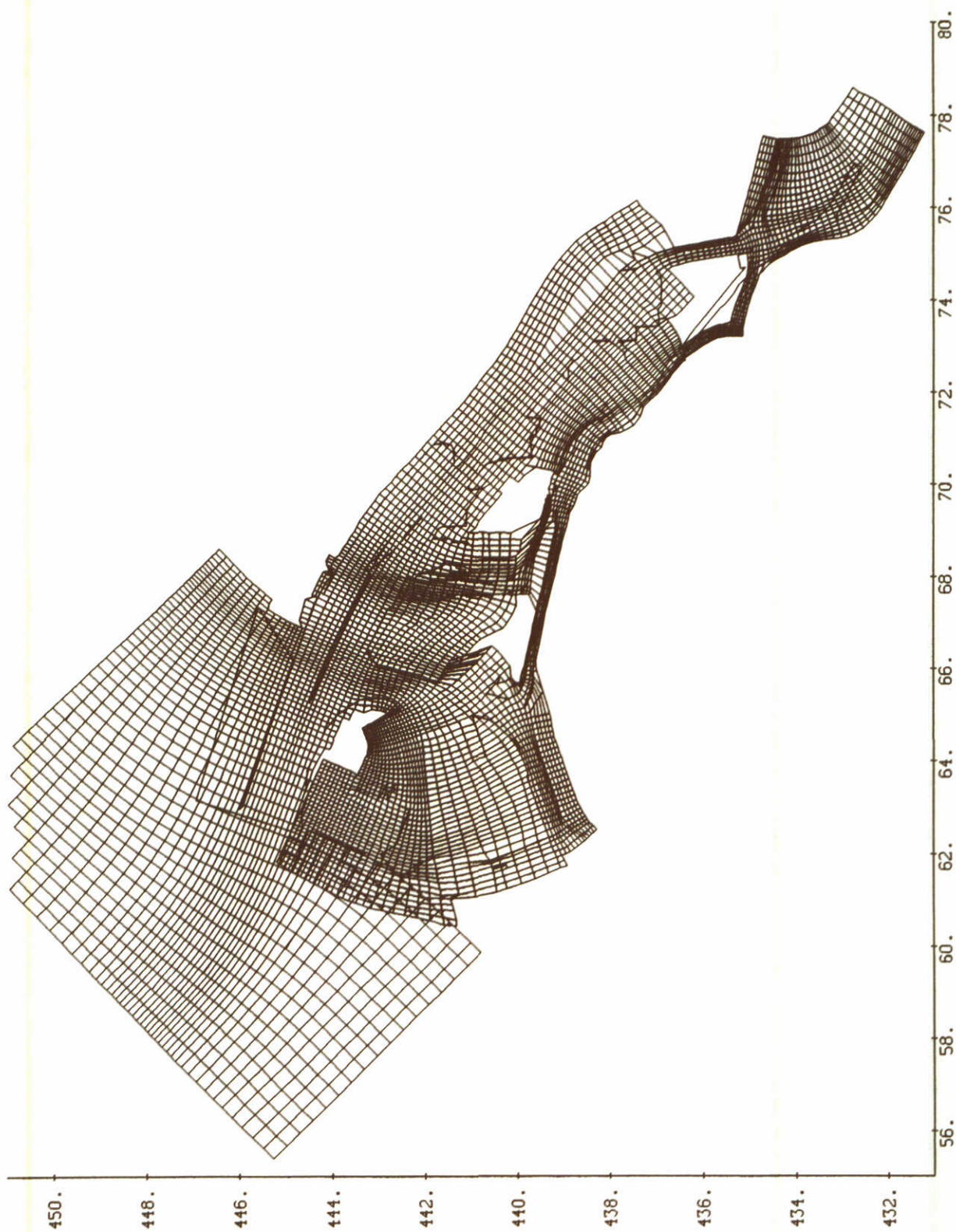
MODEL SEICHES EUROPOORT
 COMPUTATIONAL GRID, LAND BOUNDARY

9-6-88

DELFT HYDRAULICS

Z279

FIG. 1



SEICHES EUROPOORT
REKENROOSTER

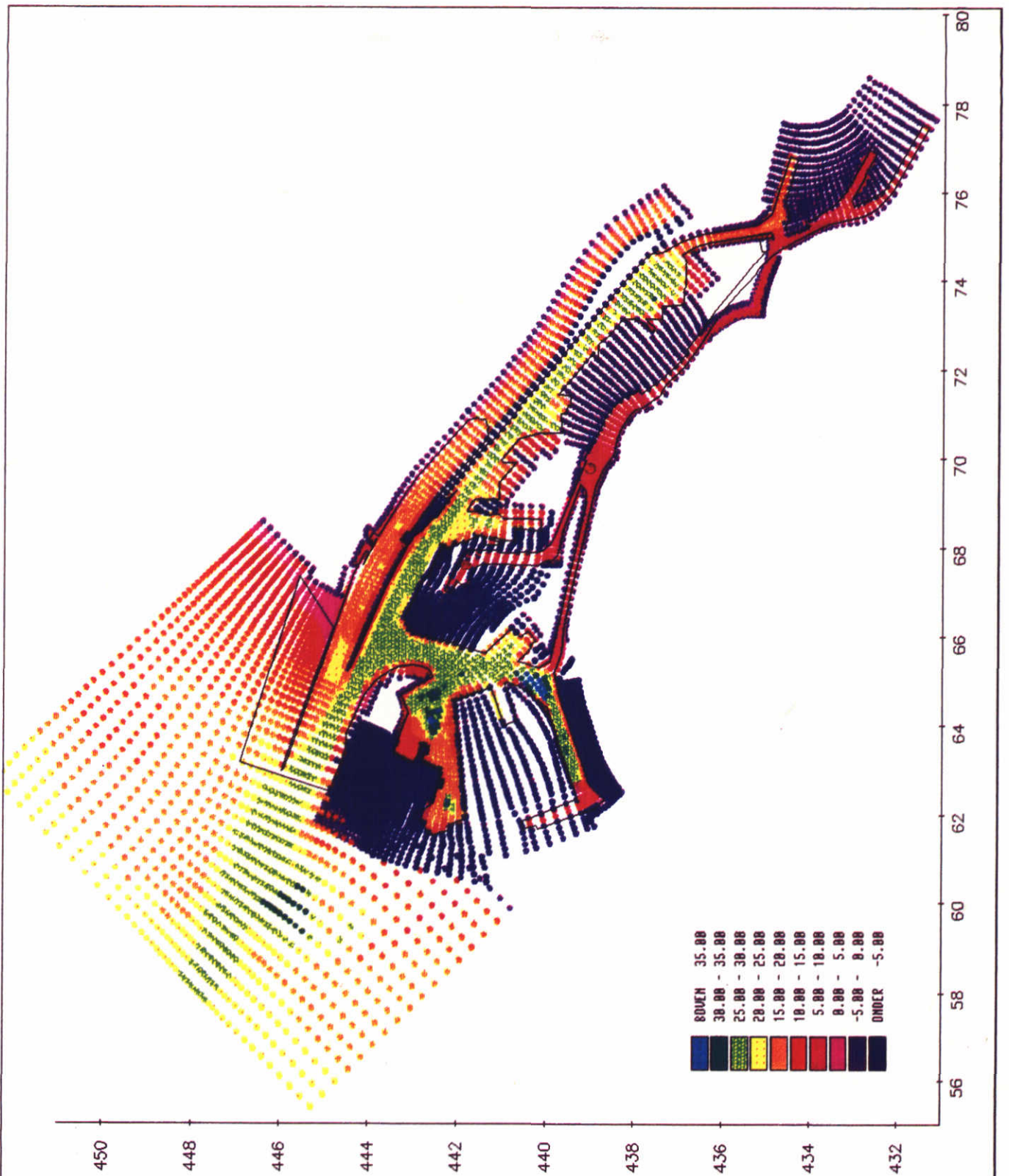
19-07-91 veld 1

OPC - STA

DELFT HYDRAULICS

Z-434

FIG.2



SEICHES EUROPOORT
ISOLIJNEN BODEMDIEPTE

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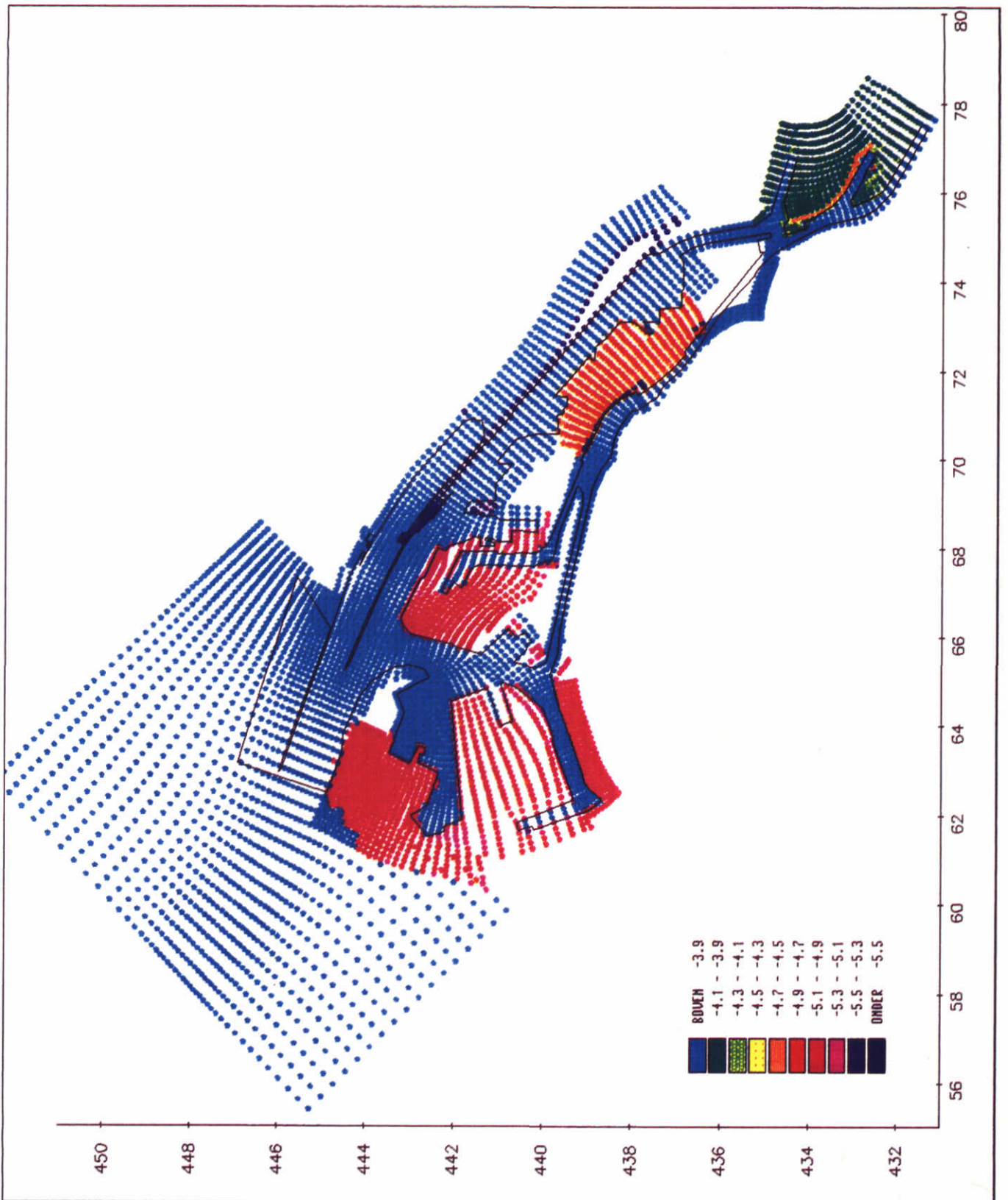
veld 1

OPC = od7

DELFT HYDRAULICS

Z-434

FIG. 3



SEICHES EUROPOORT
 ISOLIJNEN BODEMDIEPTE

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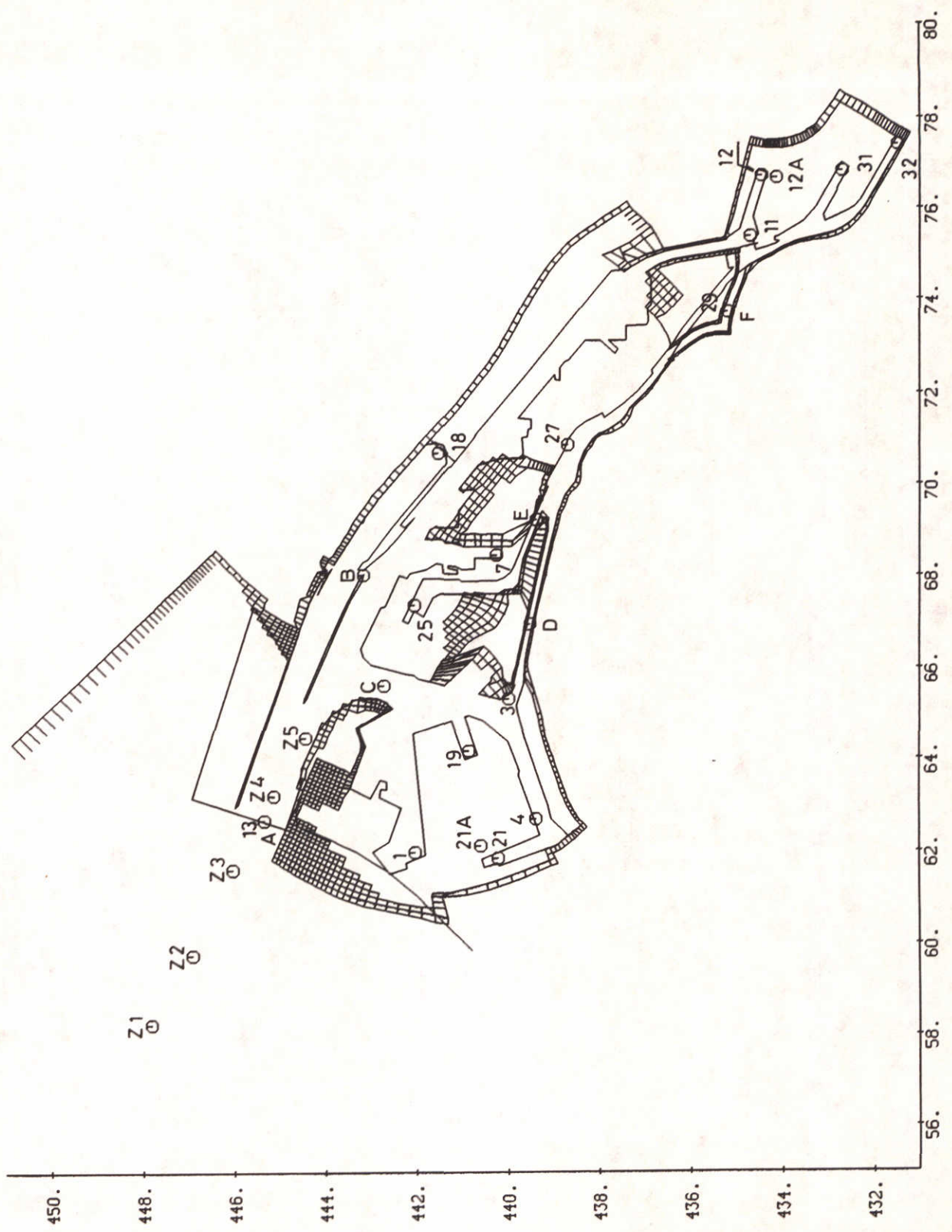
veld 1

OPC = od7

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Z-434

FIG. 4



SEICHES EUROPOORTGEBIED
 UITVOER POSITIES

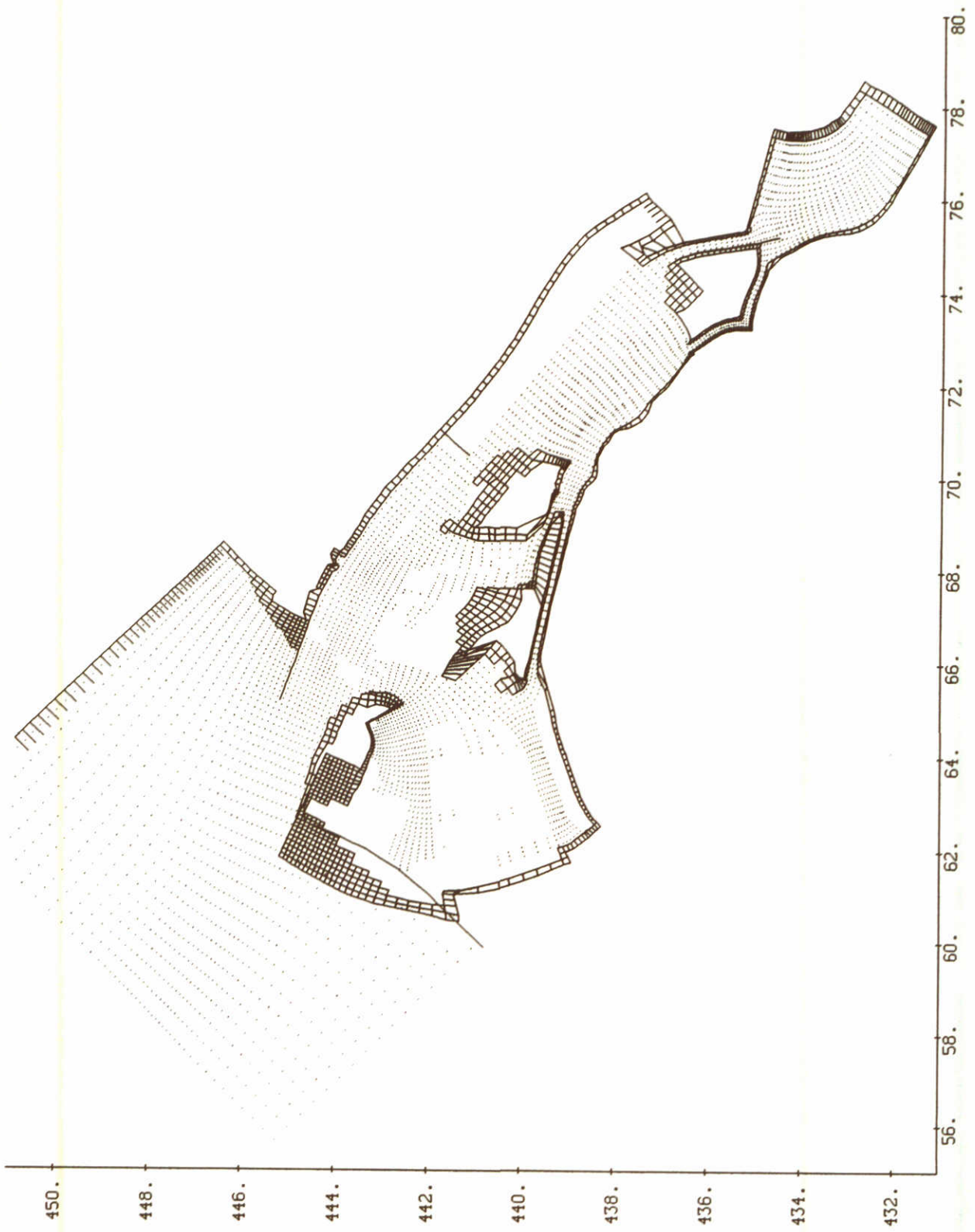
19-07-91 veld 1

OPC - STA

DELFT HYDRAULICS

Z-434

FIG. 5



SEICHES EUROPOORT
SCHEMATISERING DODD

datum

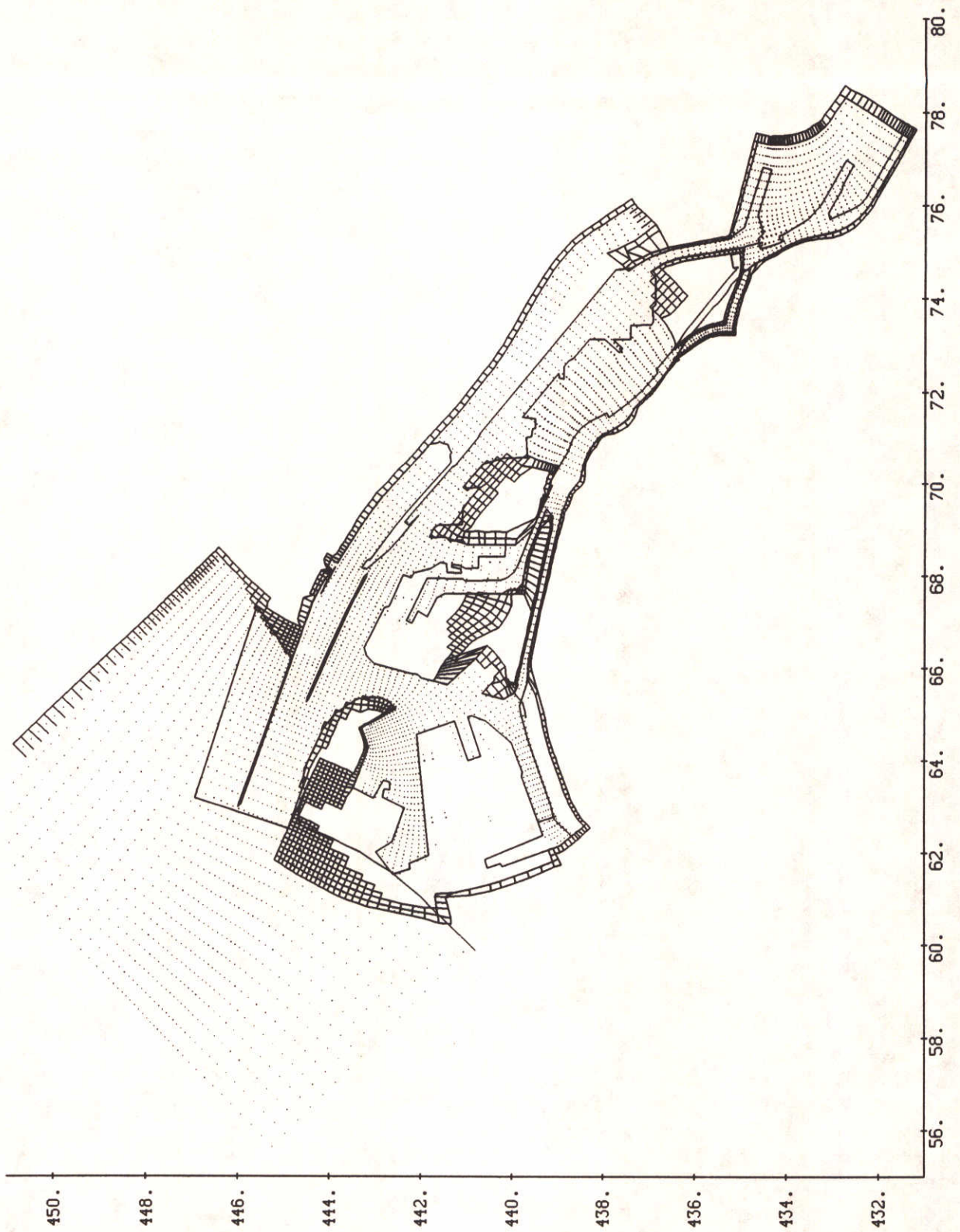
veld 1

OPC - so1

DELFT HYDRAULICS

Z-434

FIG. 6



SEICHES EUROPOORT
SCHEMATISERING ODDD

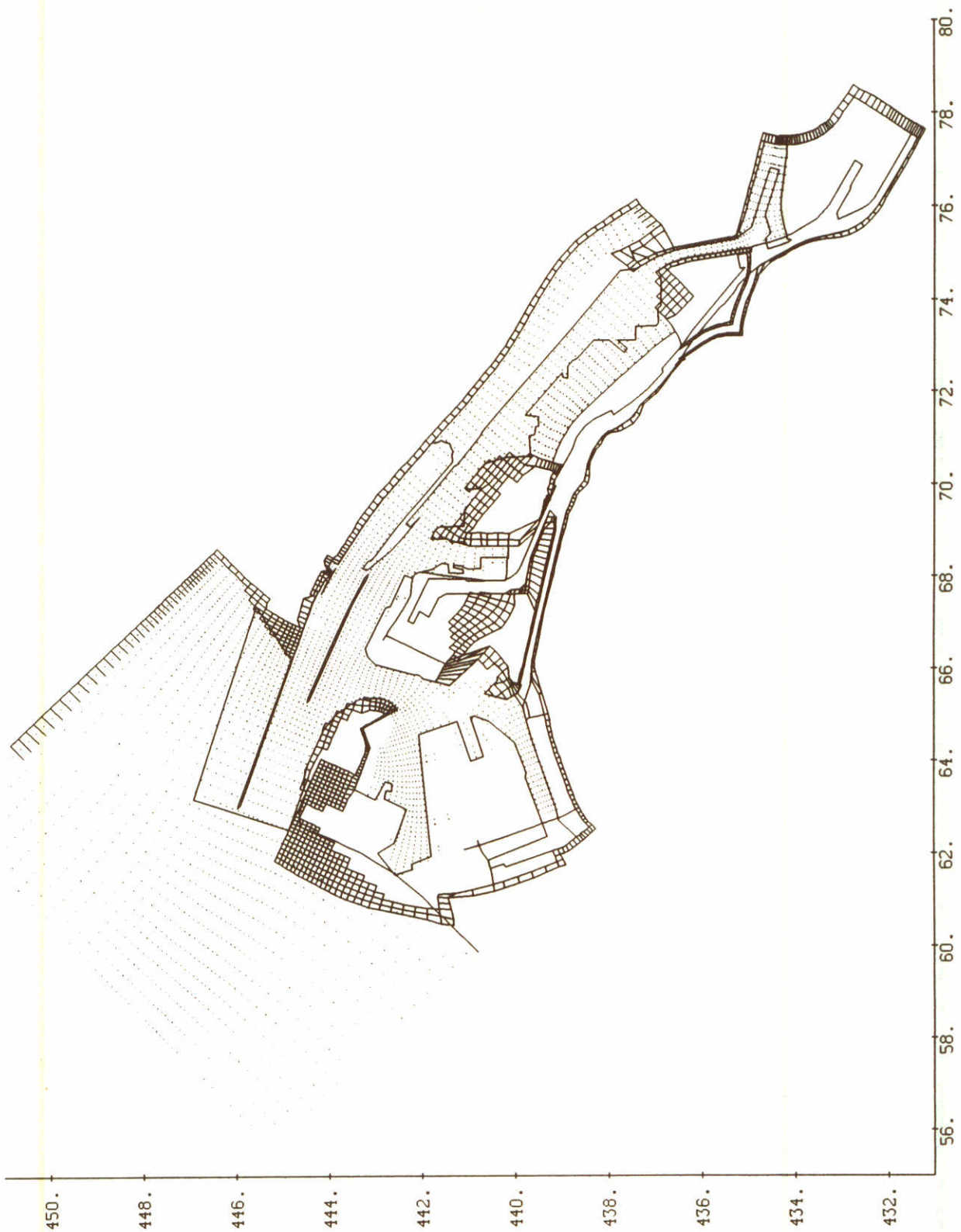
06/14/91 veld 1

OPC - od6

DELFT HYDRAULICS

Z-434

FIG. 7



SEICHES EUROPOORT

SCHEMATISERING ODDD + DAMLIJN

DELFT HYDRAULICS

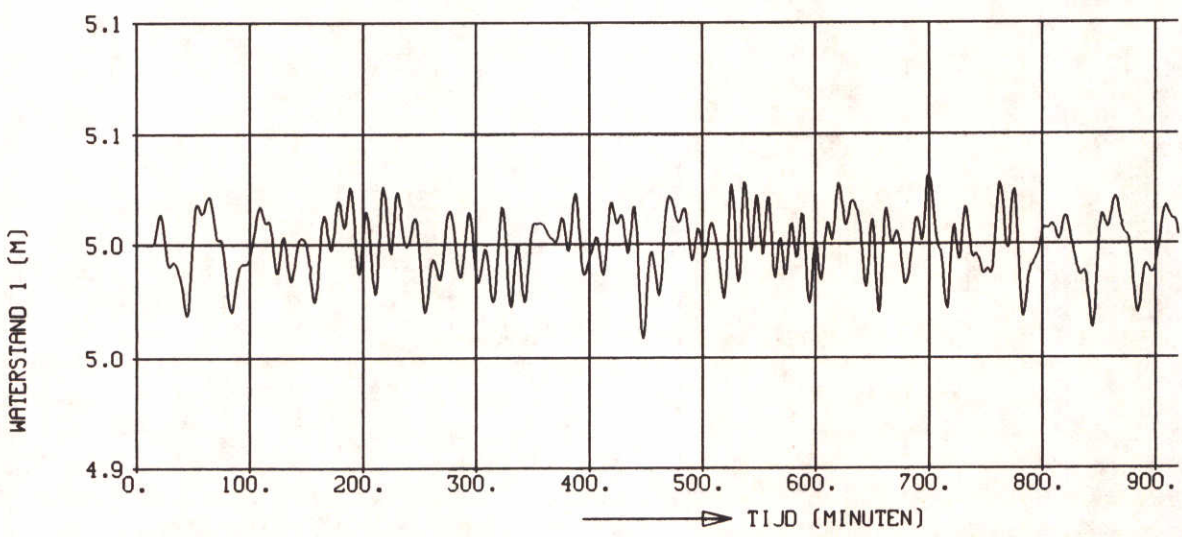
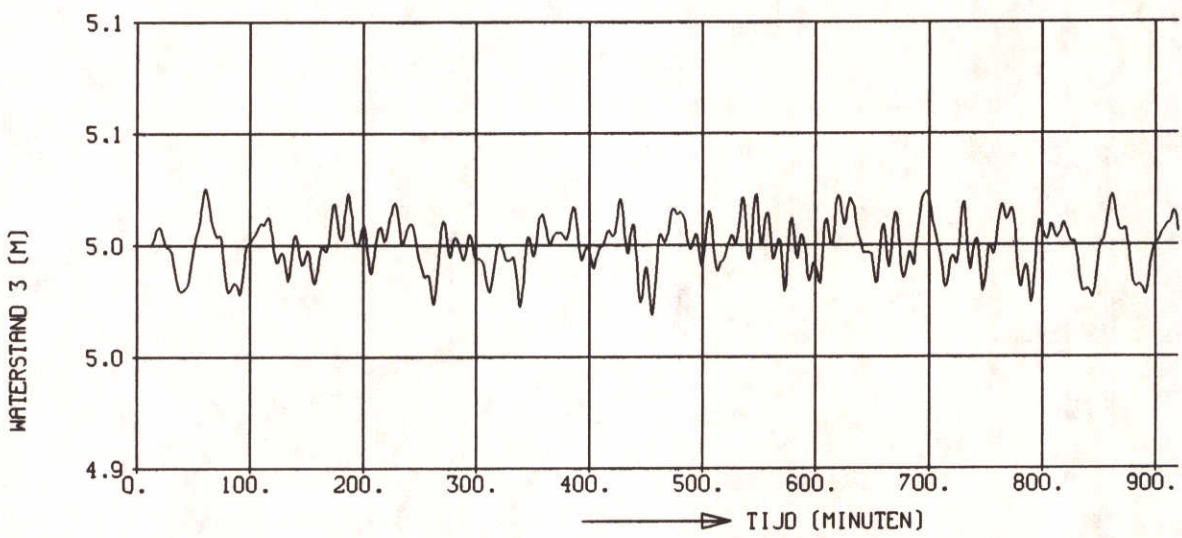
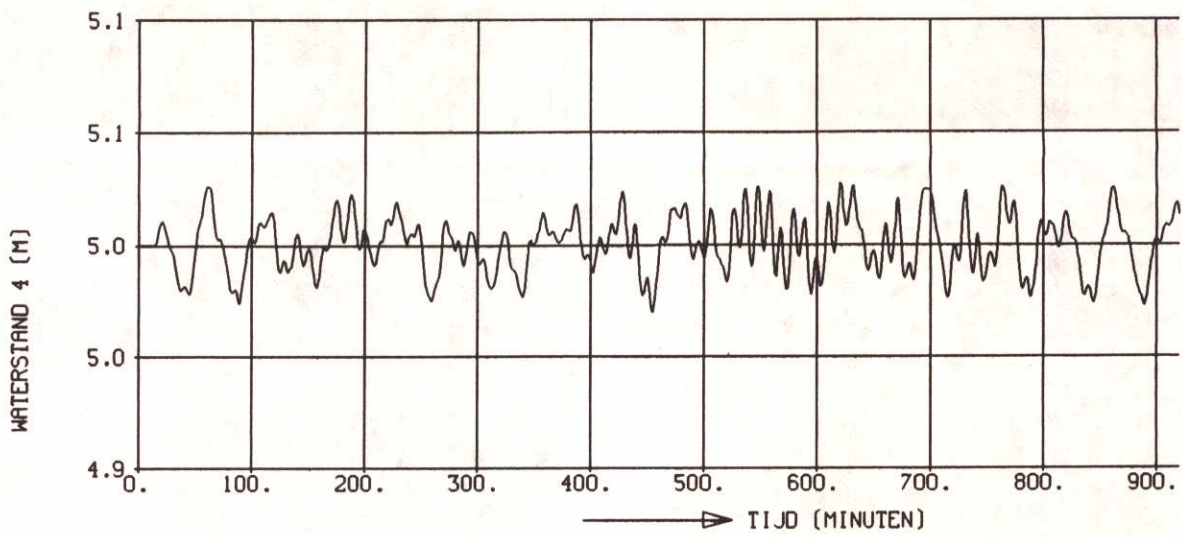
07/01/91

veld 1

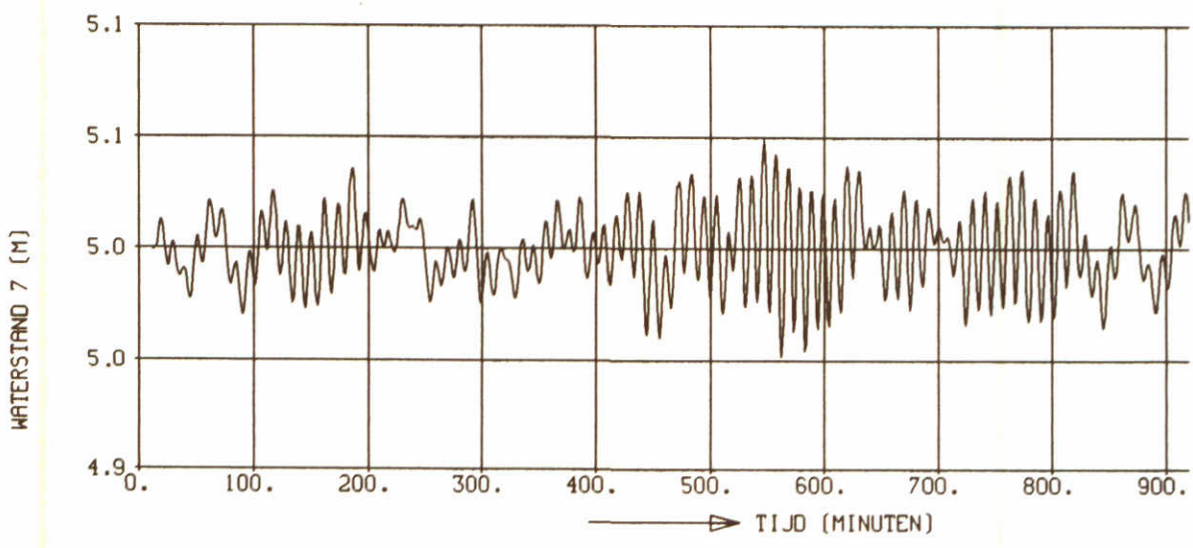
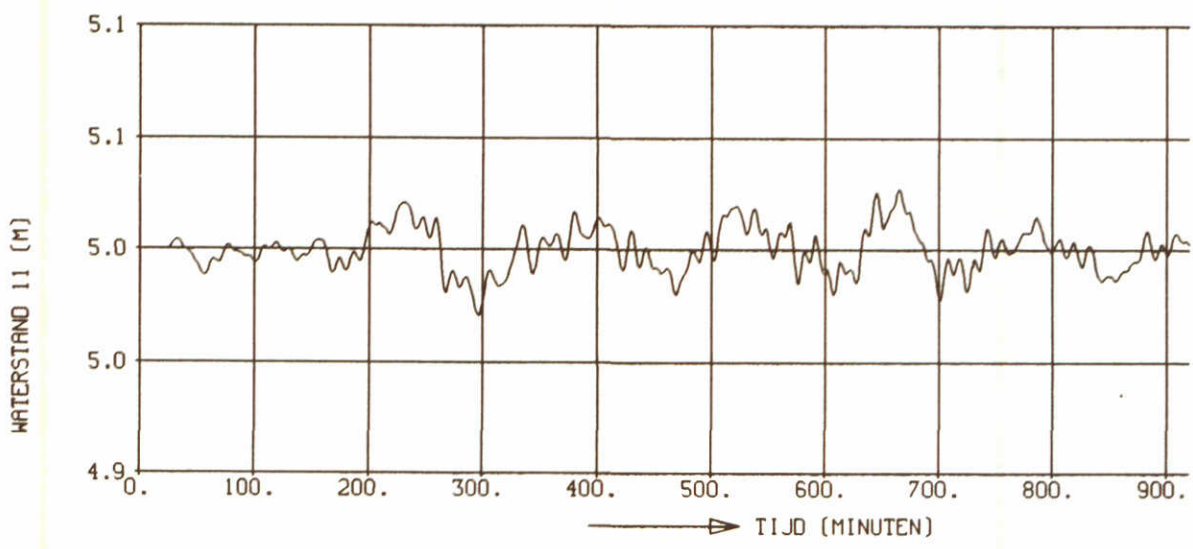
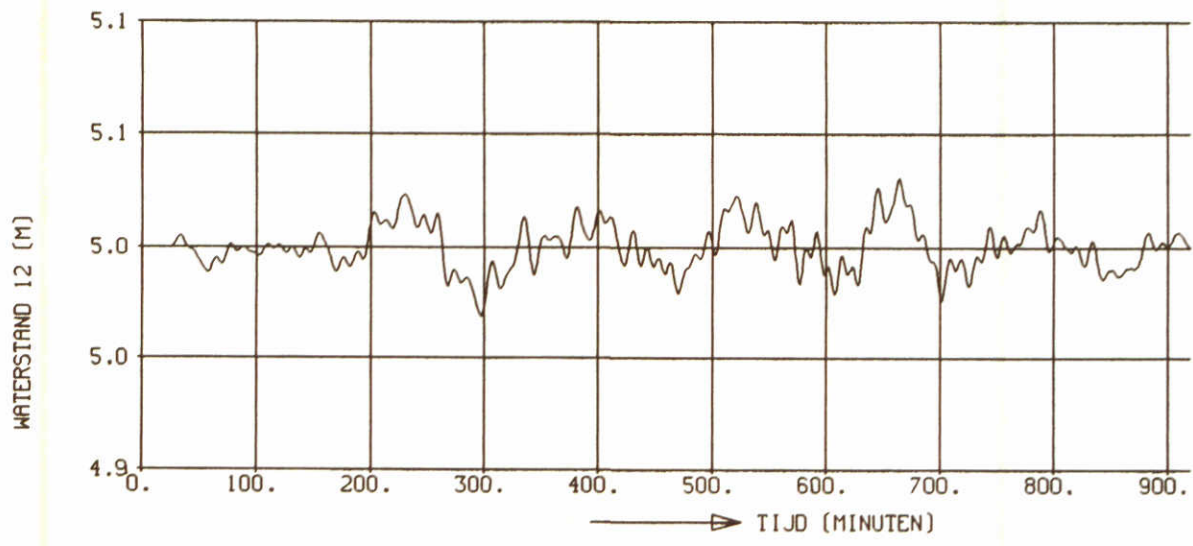
OPC - od7

Z-434

FIG. 8



SEICHES EUROPOORT TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4	24-07-91
	OPC - S01
DELFT HYDRAULICS	FIG. 9



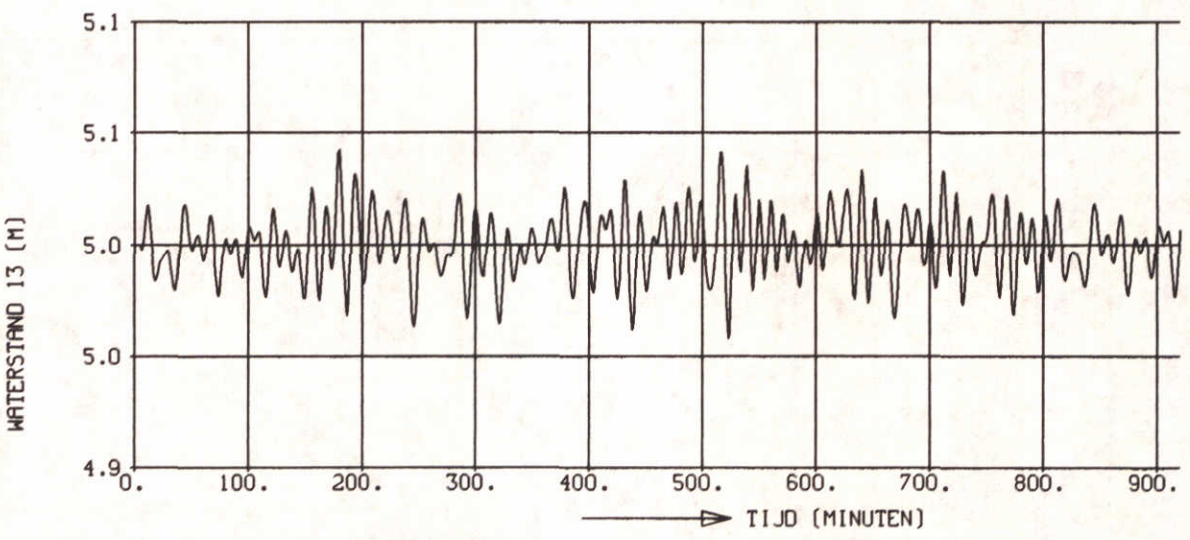
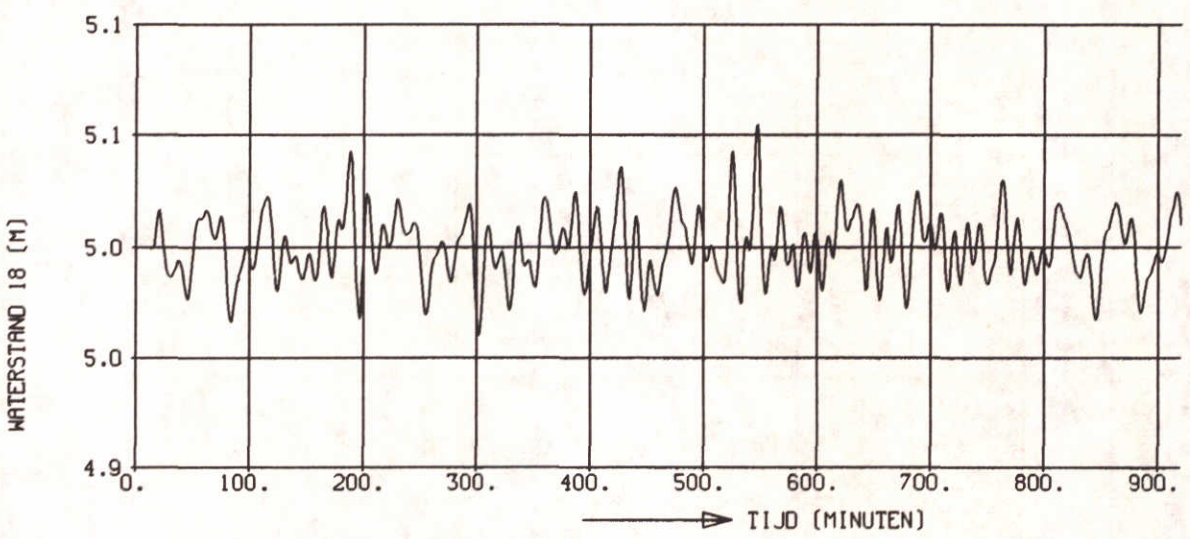
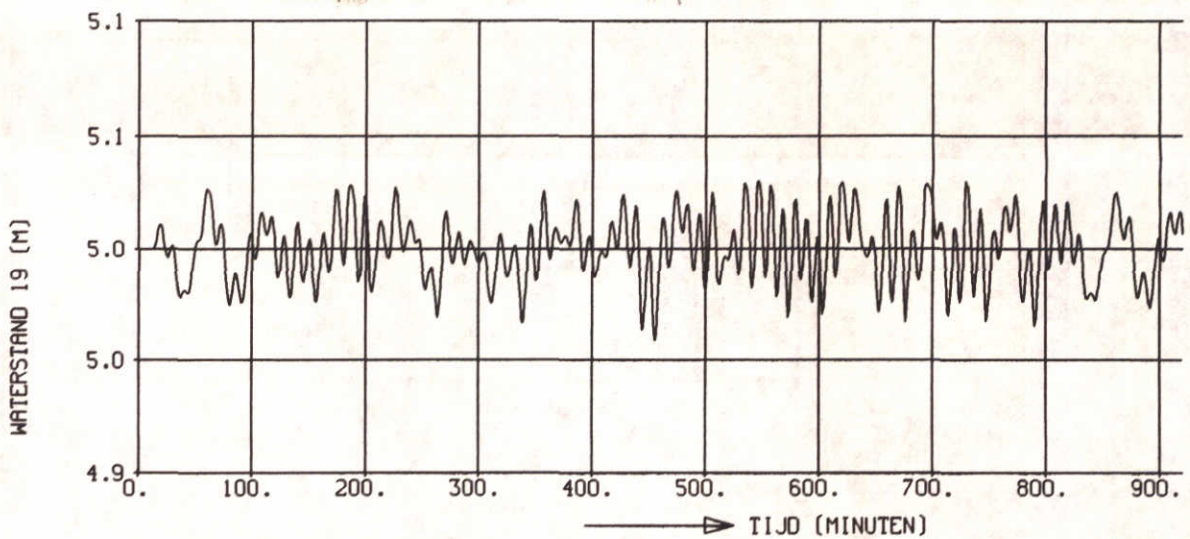
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

24-07-91

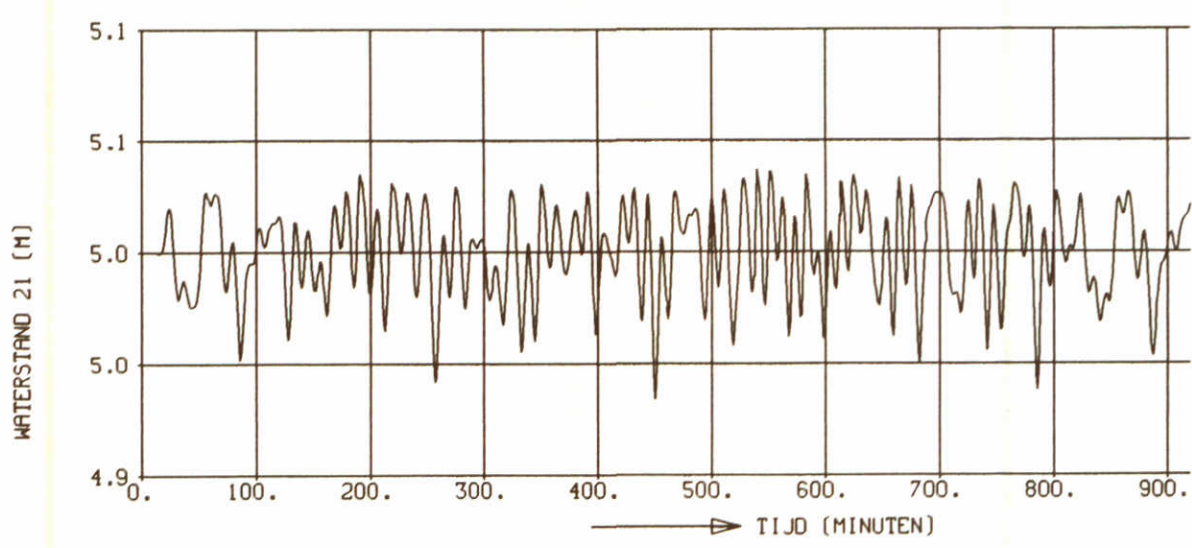
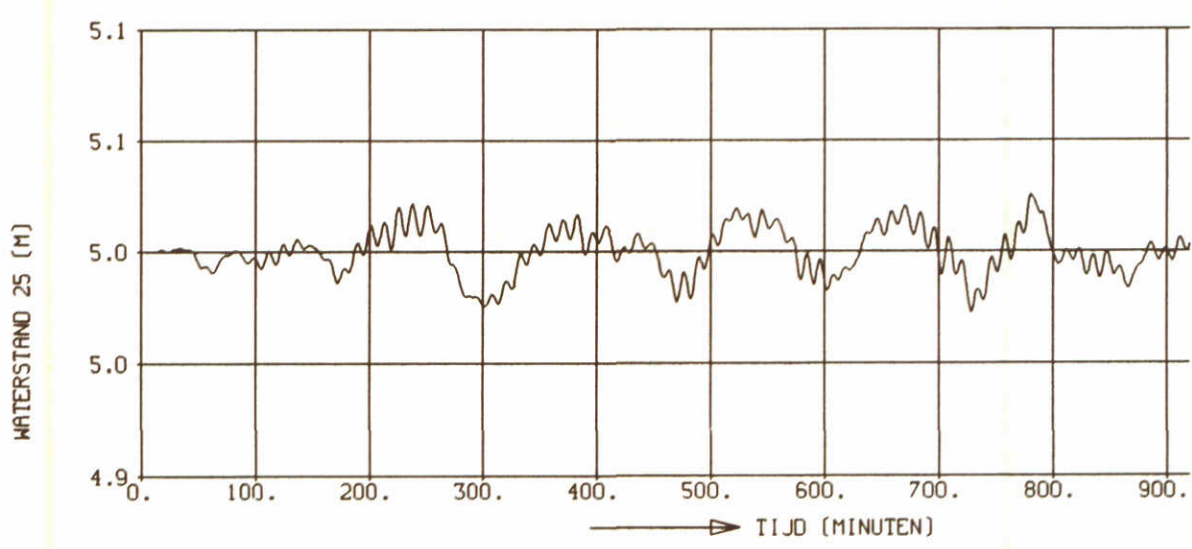
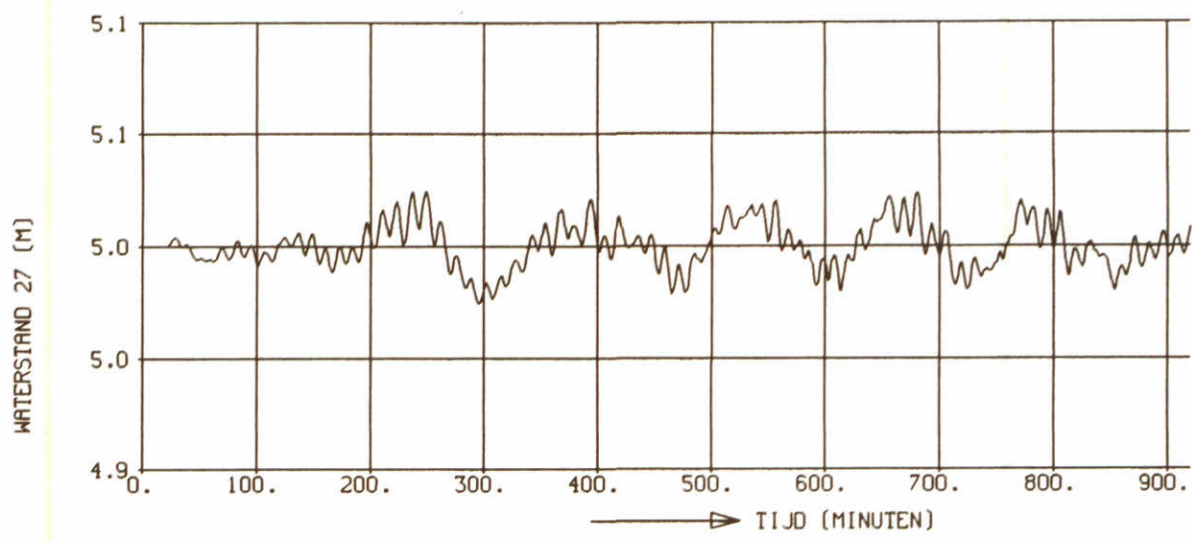
OPC - S01

DELFT HYDRAULICS

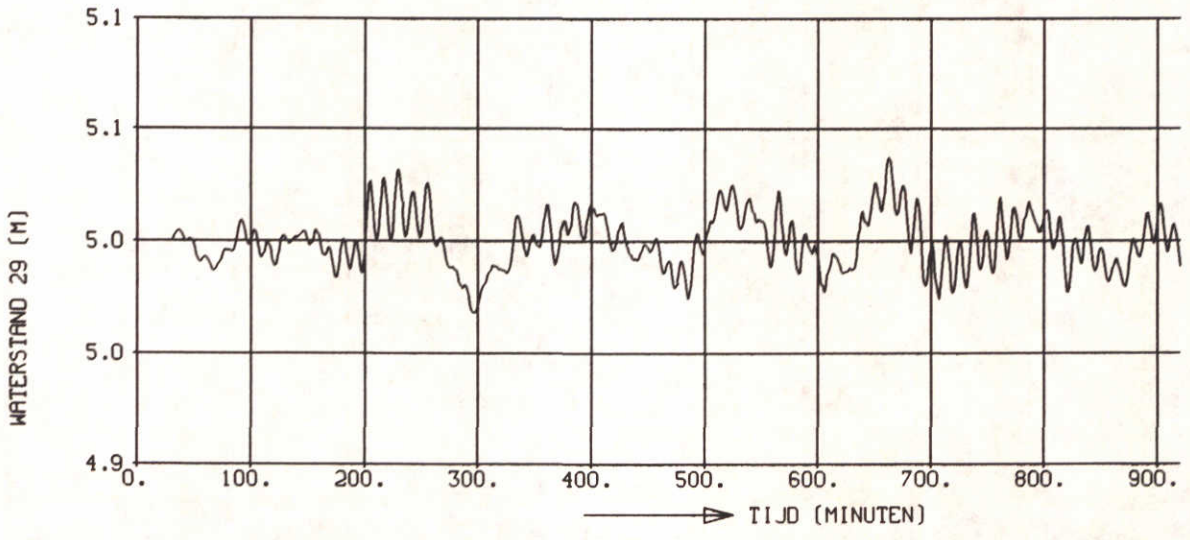
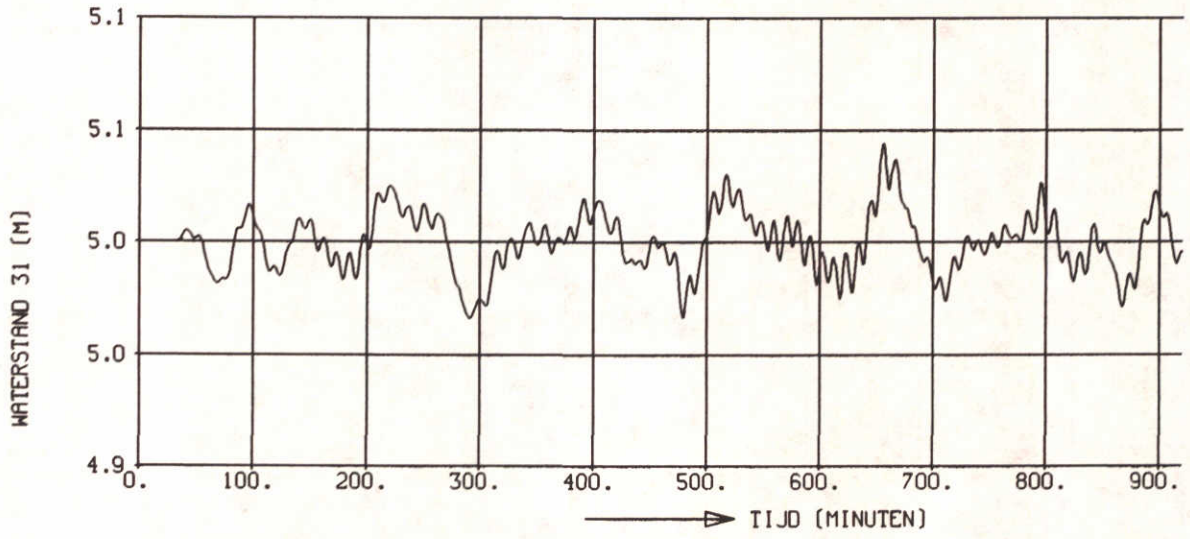
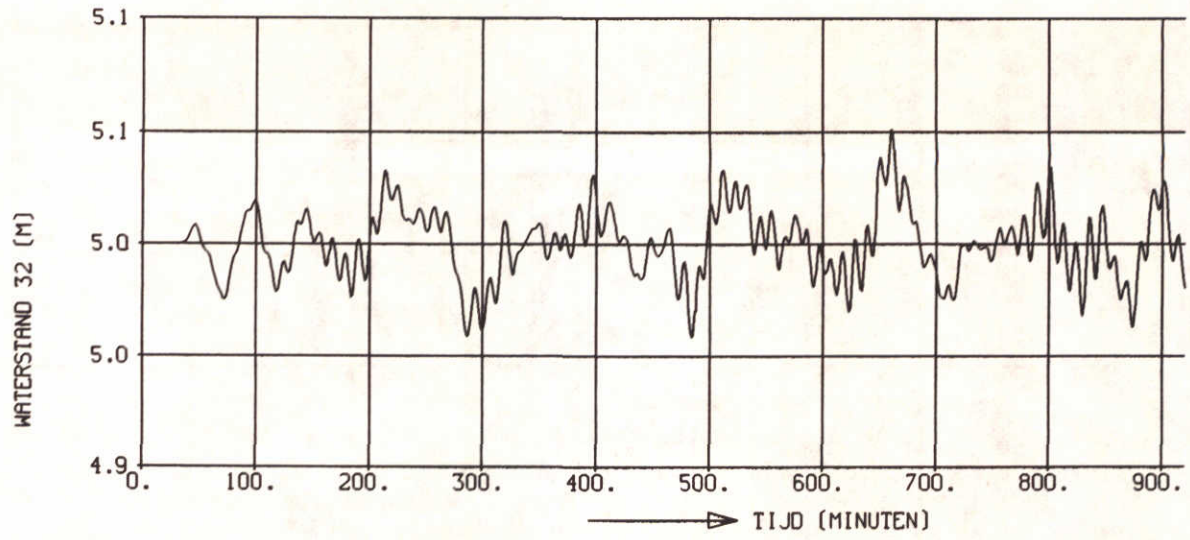
FIG.10



SEICHES EUROPOORT TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19	24-07-91
	OPC - S01
DELFT HYDRAULICS	FIG. 11



SEICHES EUROPOORT TIJDREKSEN VAN WATERSTANDEN 21, 25, 27	24-07-91	
	OPC - S01	
DELFT HYDRAULICS		FIG.12



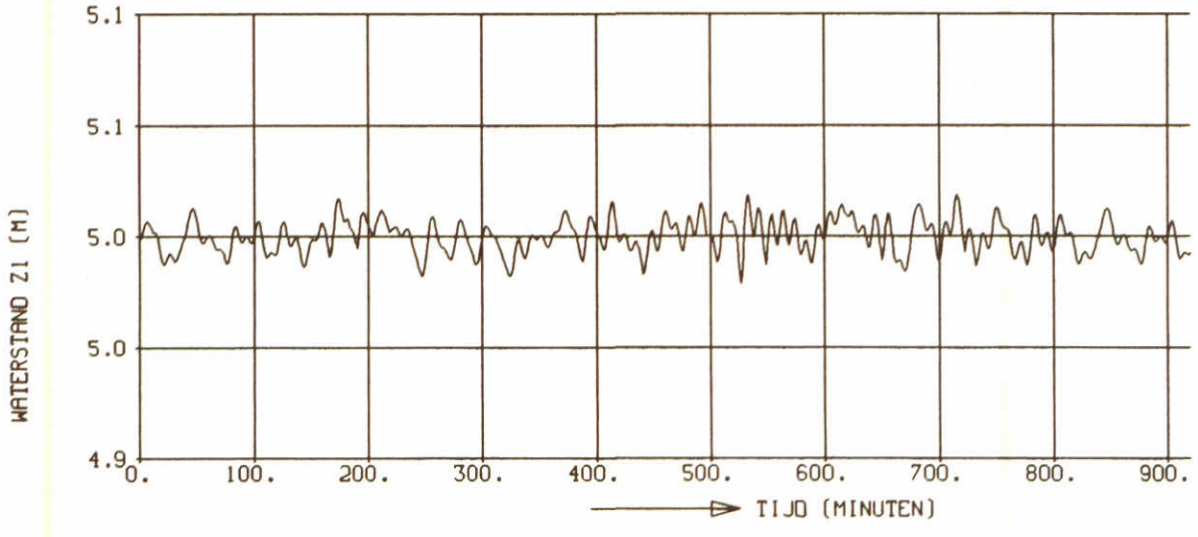
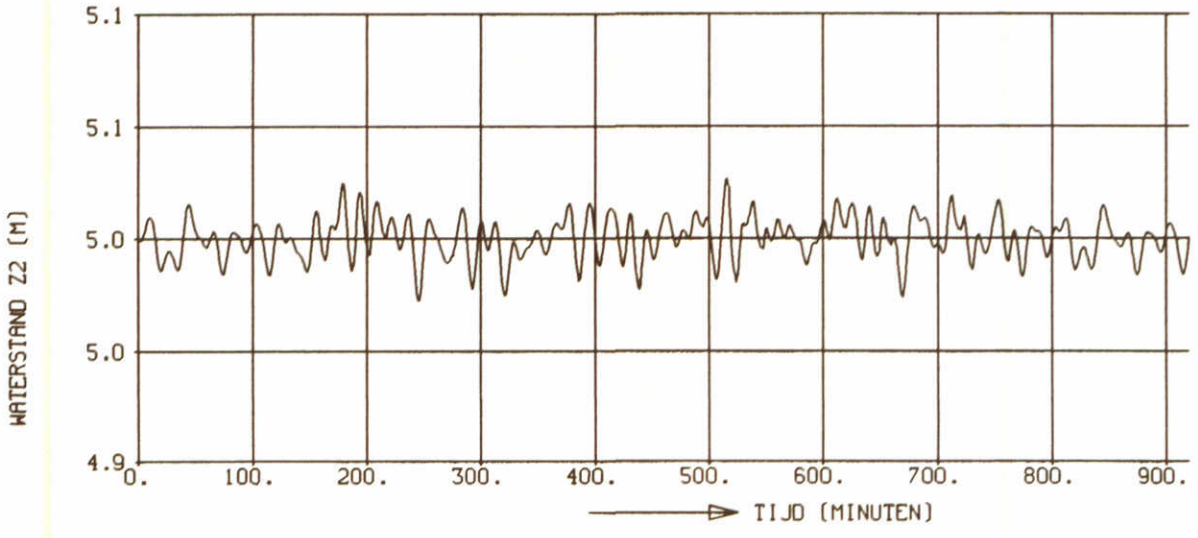
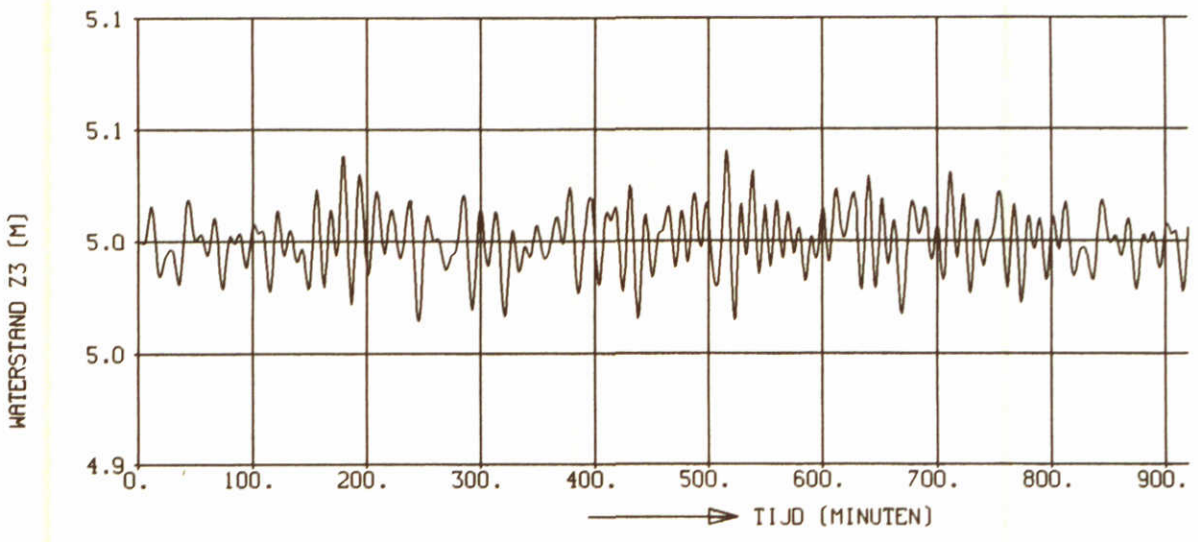
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 29, 31, 32

24-07-91

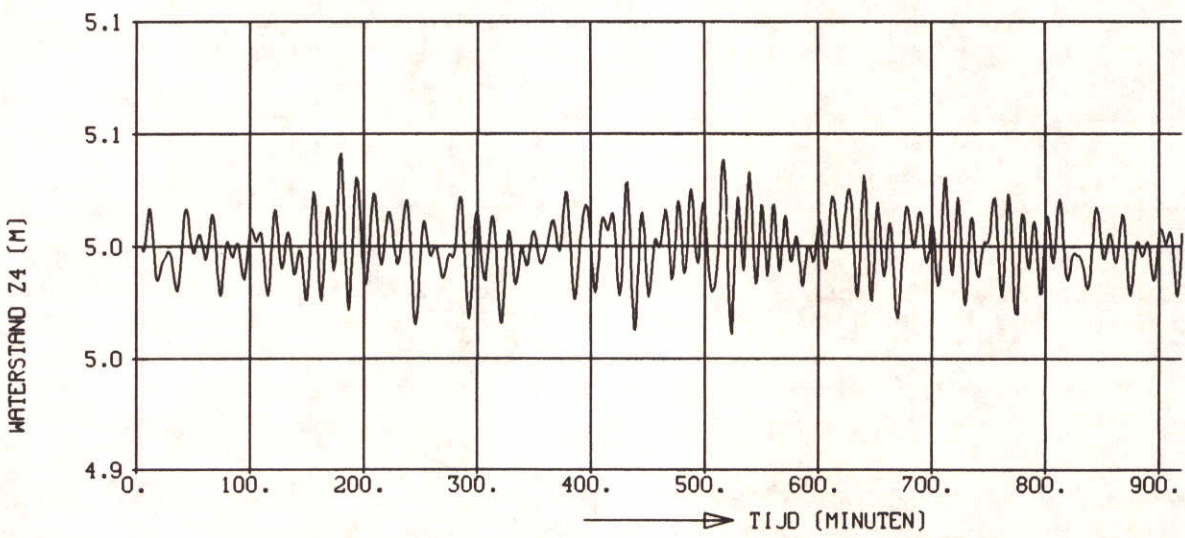
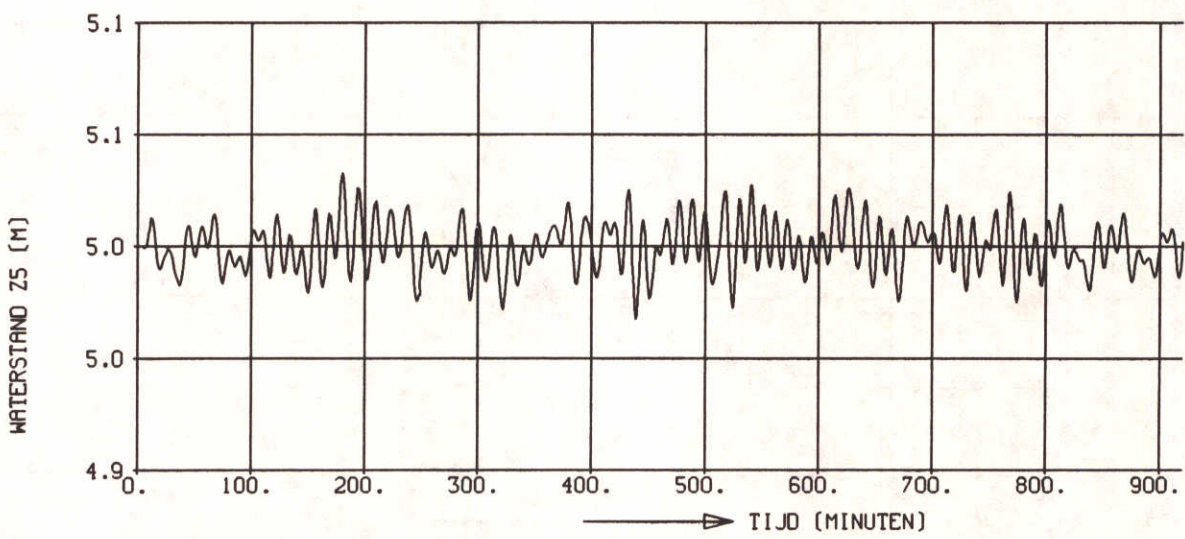
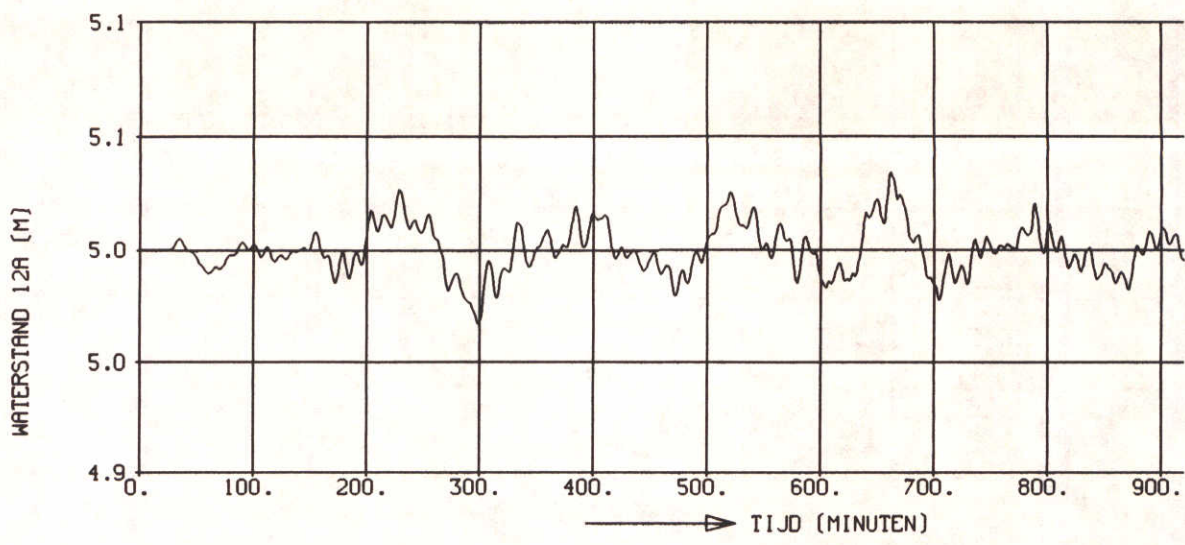
OPC - S01

DELFT HYDRAULICS

FIG. 13



SEICHES EUROPOORT TIJDREEKSEN VAN WATERSTANDEN Z1, Z2, Z3	24-07-91	
	OPC - S01	
DELFT HYDRAULICS		FIG. 14



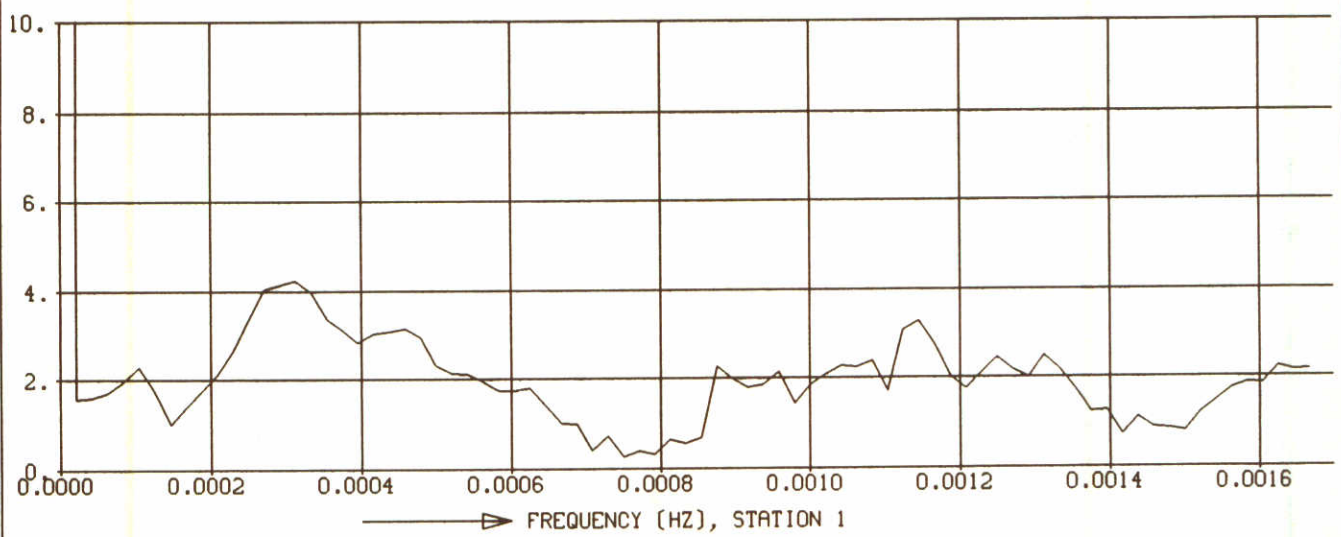
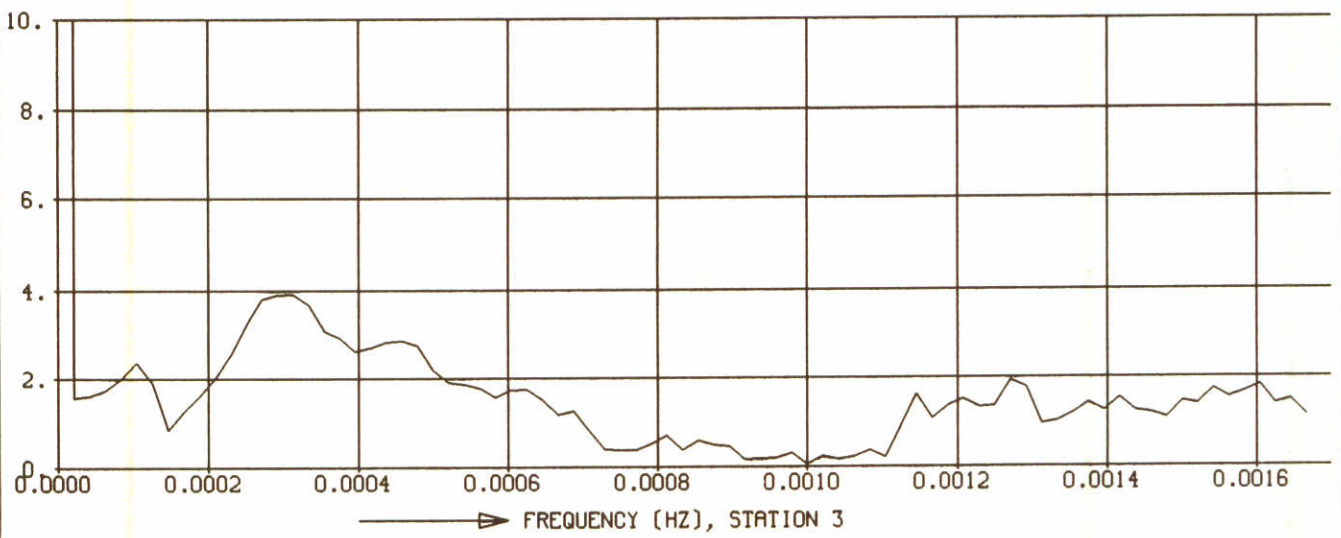
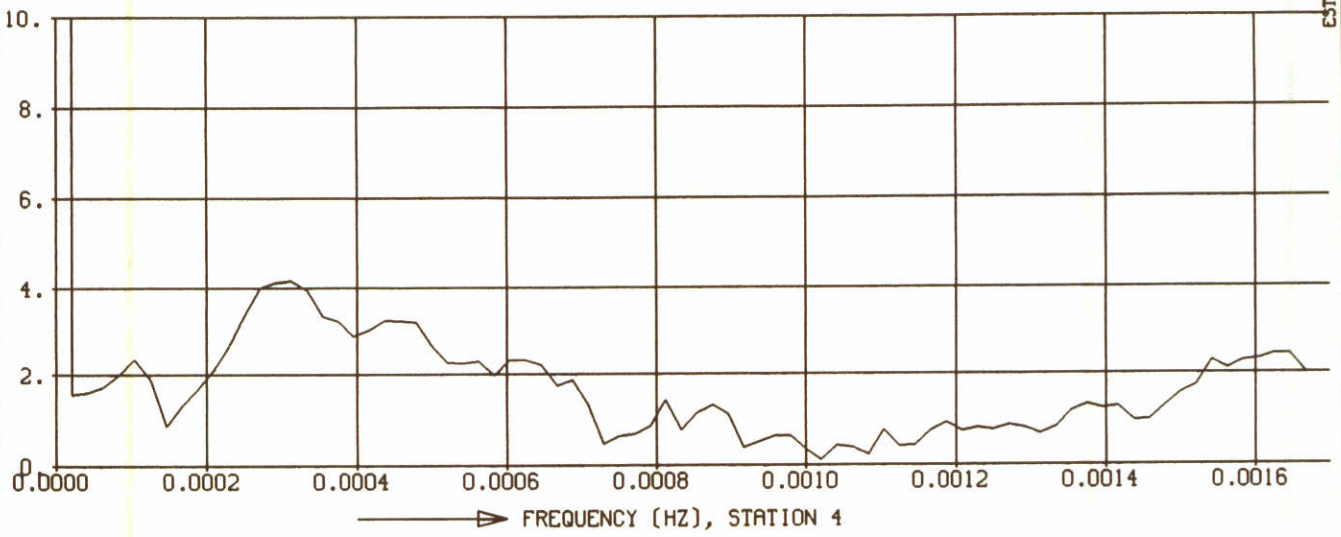
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN Z4, Z5, 12A

24-07-91

OPC - S01

DELFT HYDRAULICS

FIG. 15



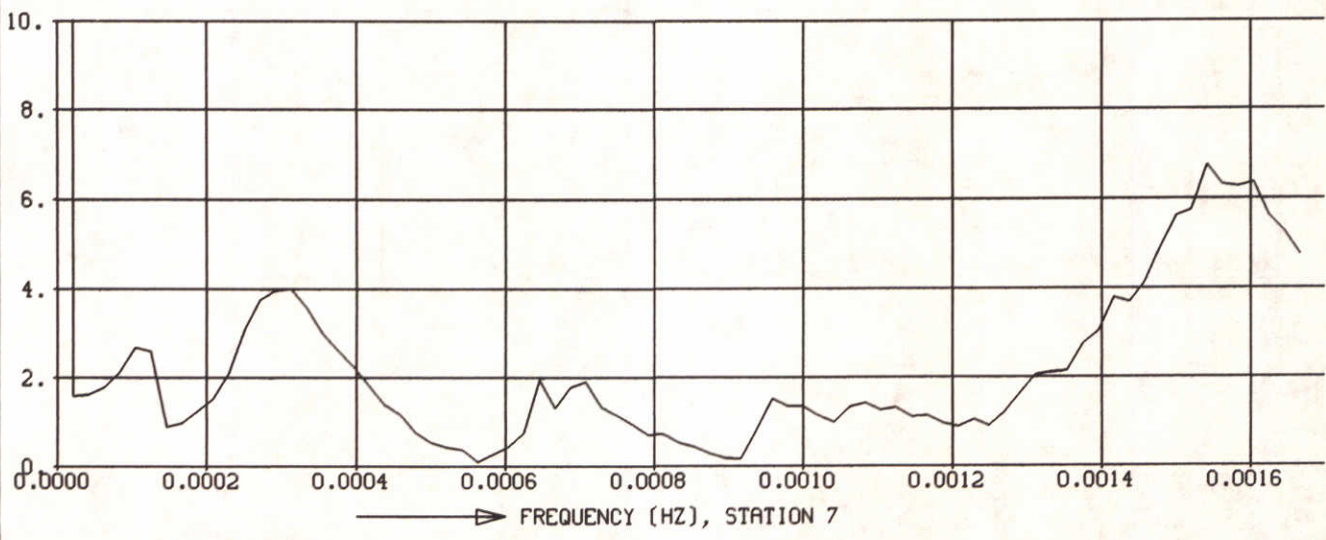
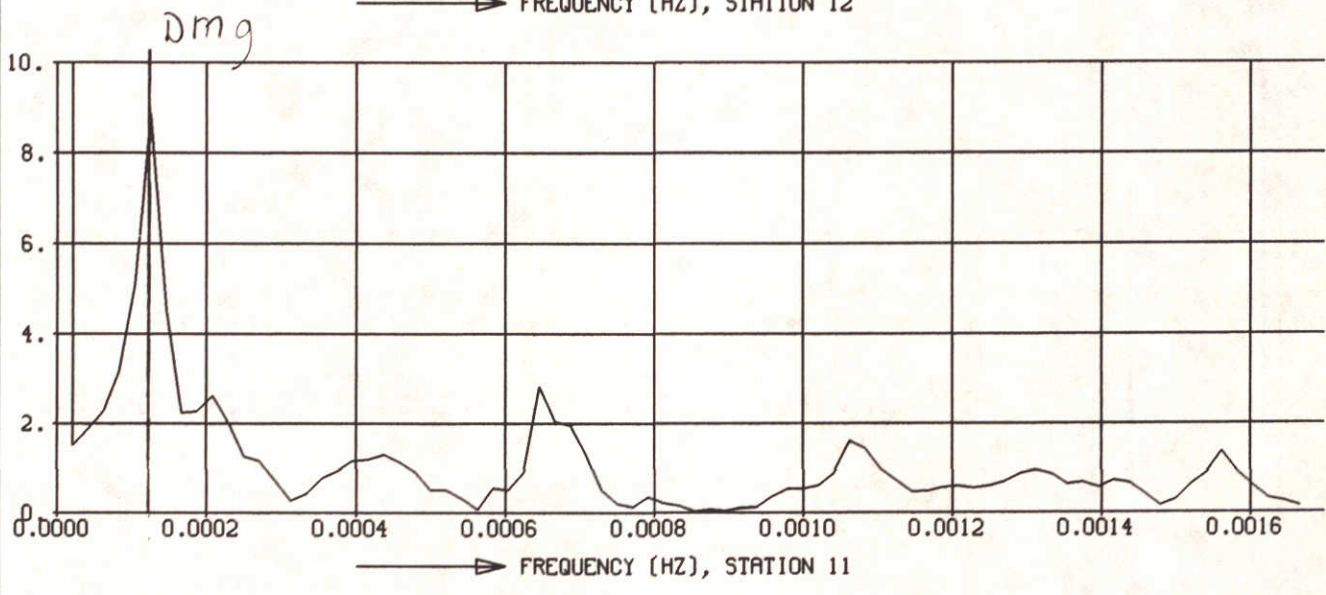
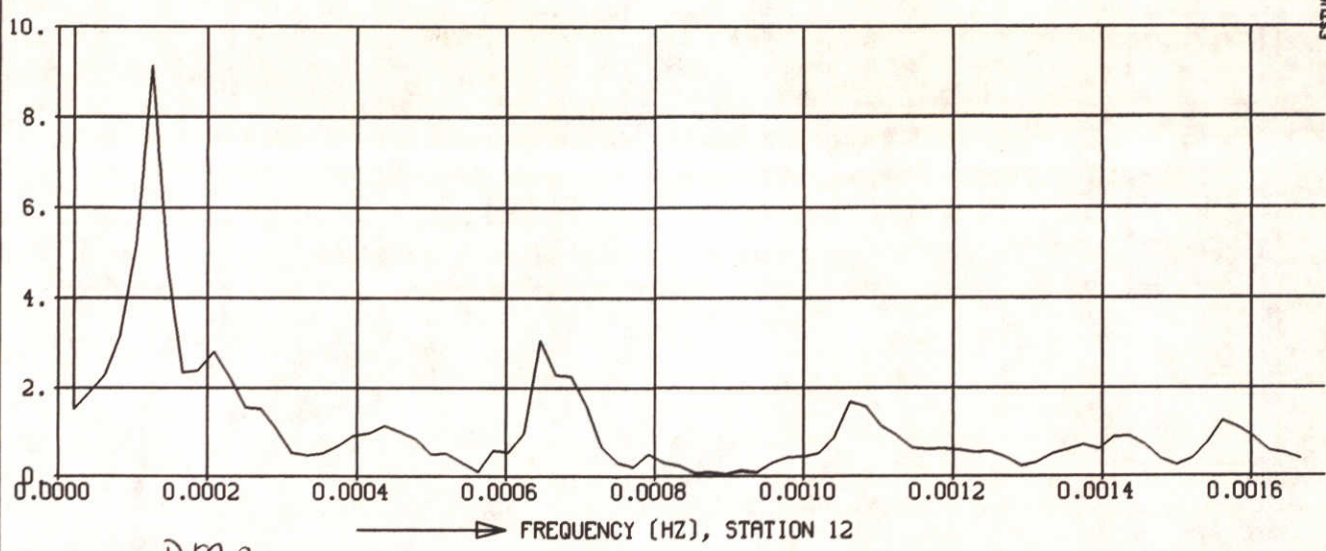
SEICHES EUROPOORT
SPECTRA VAN STATIONS 1, 3, 4 IN MM

14-06-91

OPC - S01

DELFT HYDRAULICS

FIG. 16



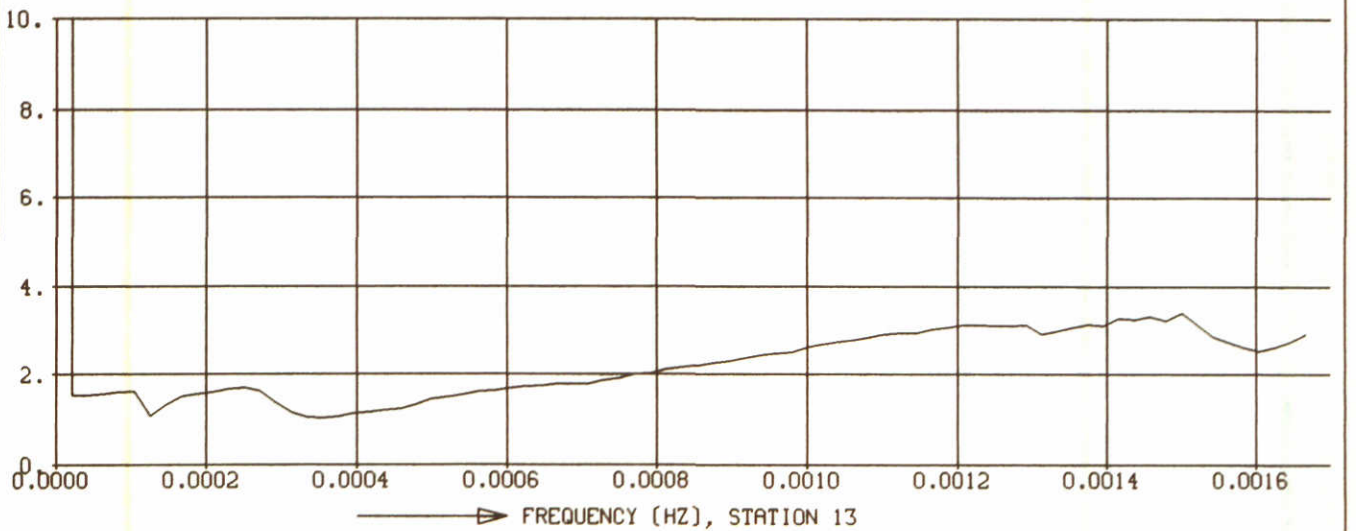
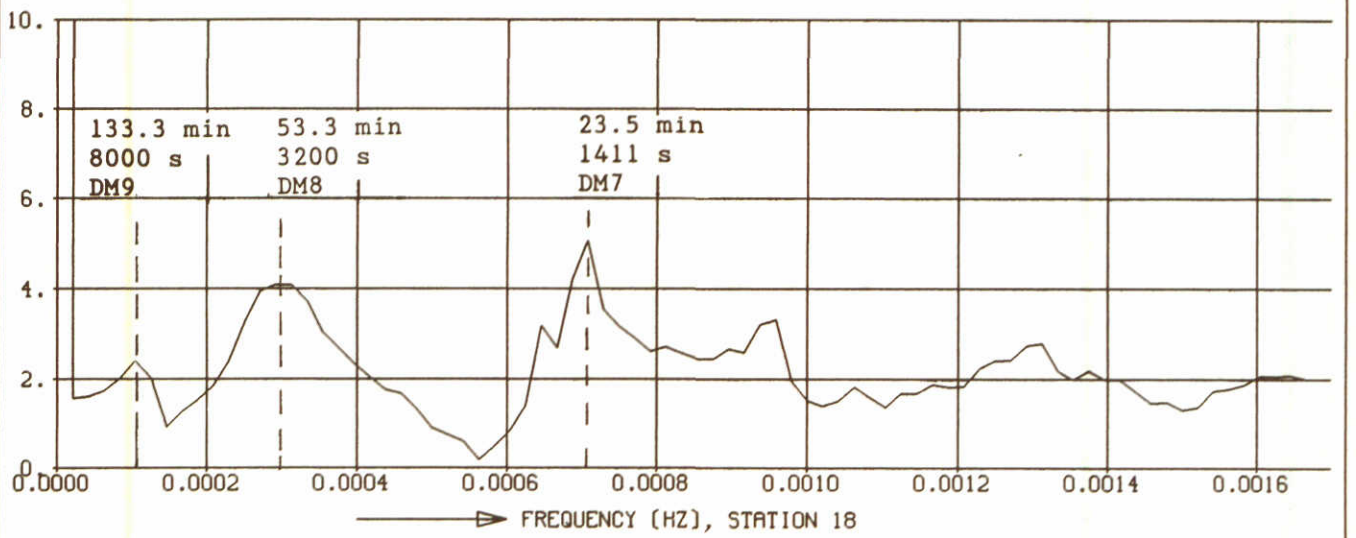
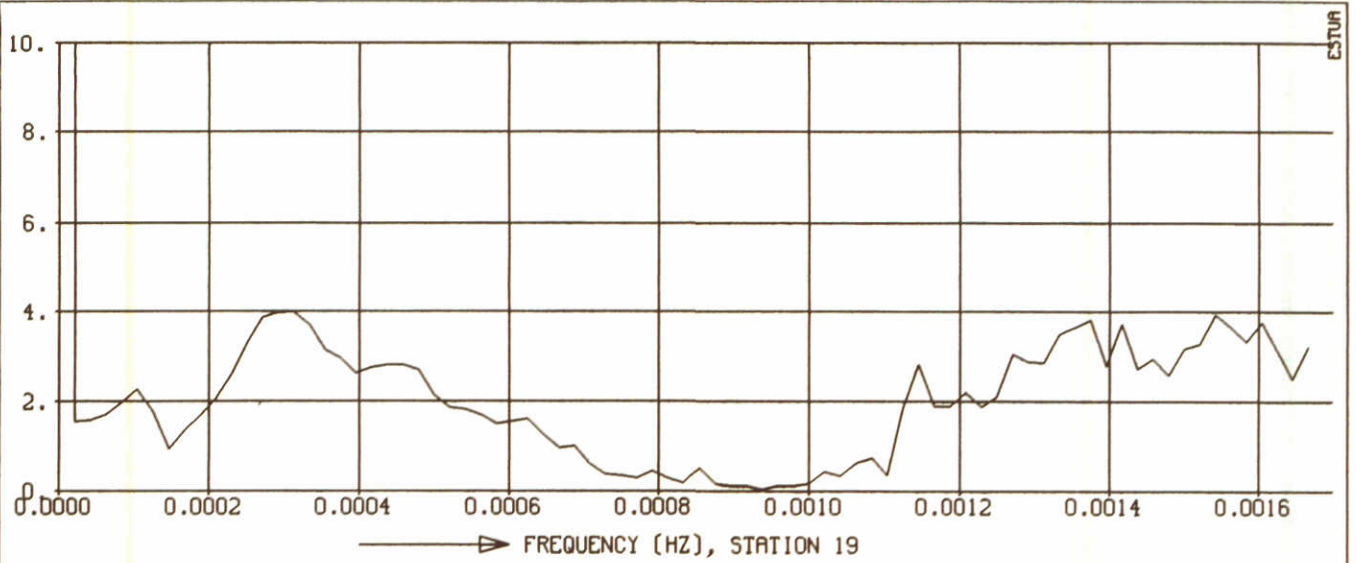
SEICHES EUROPOORT
SPECTRA VAN STATIONS 7, 11, 12 IN MM

14-06-91

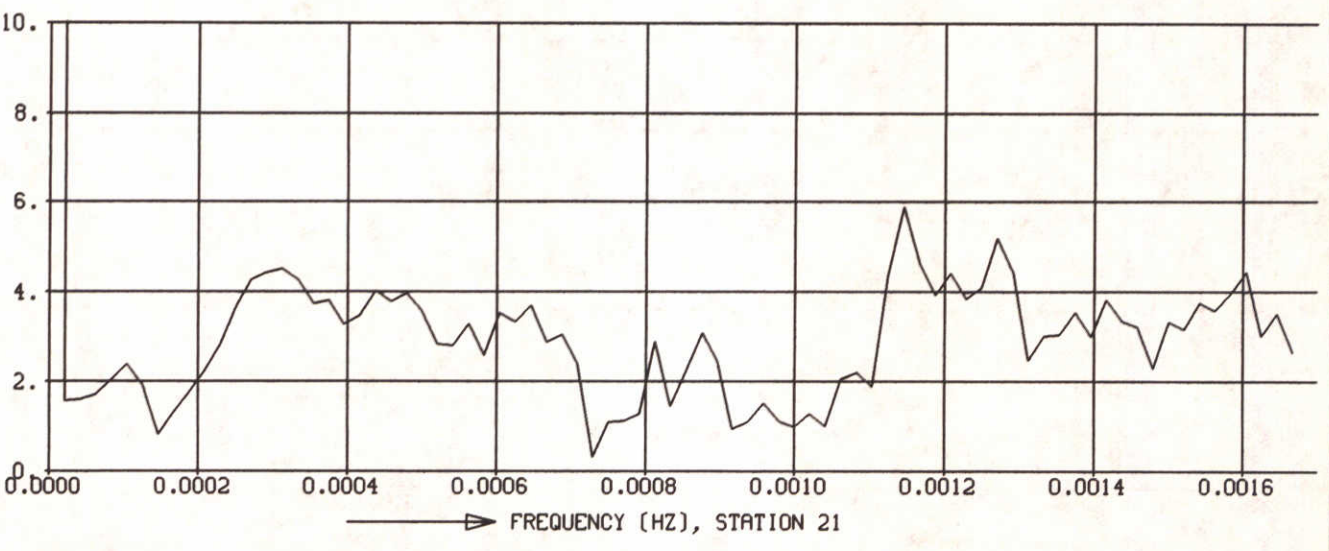
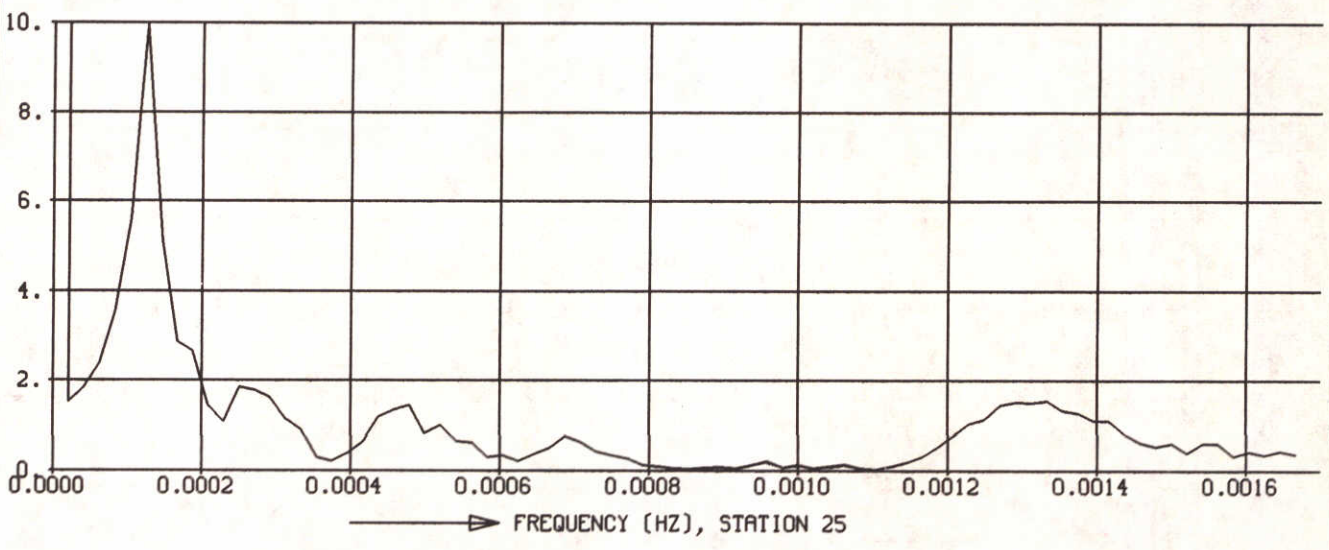
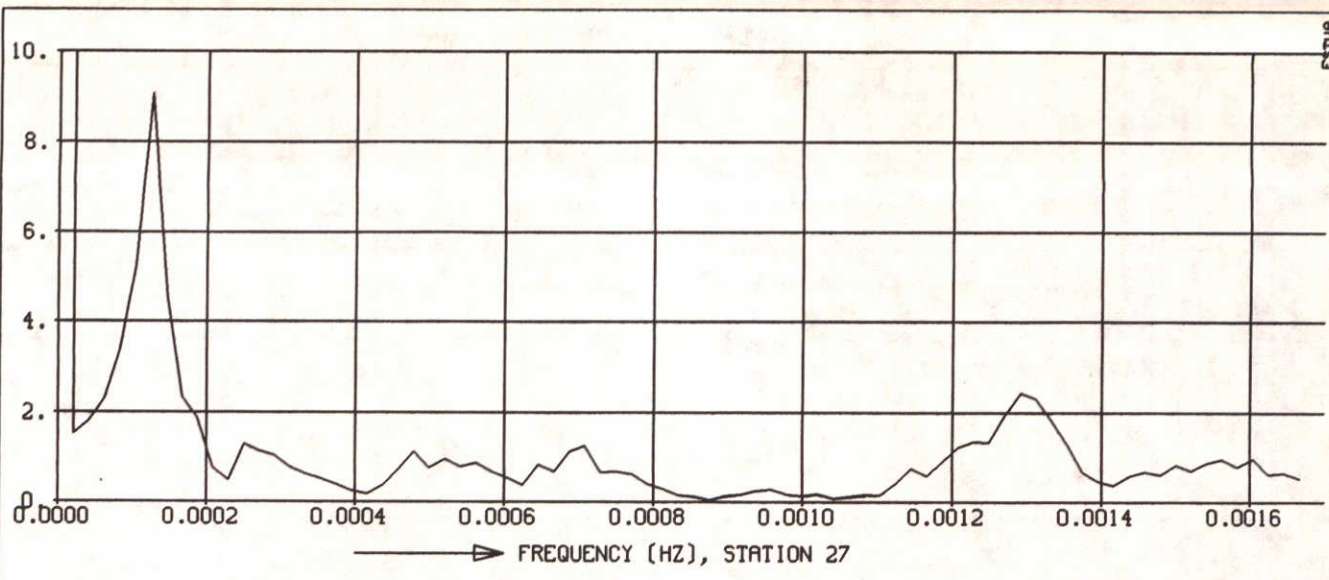
OPC - S01

DELFT HYDRAULICS

FIG. 17



SEICHES EUROPOORT SPECTRA VAN STATIONS 13, 18, 19 IN MM	14-06-91	
	OPC - S01	
DELFT HYDRAULICS		FIG.18



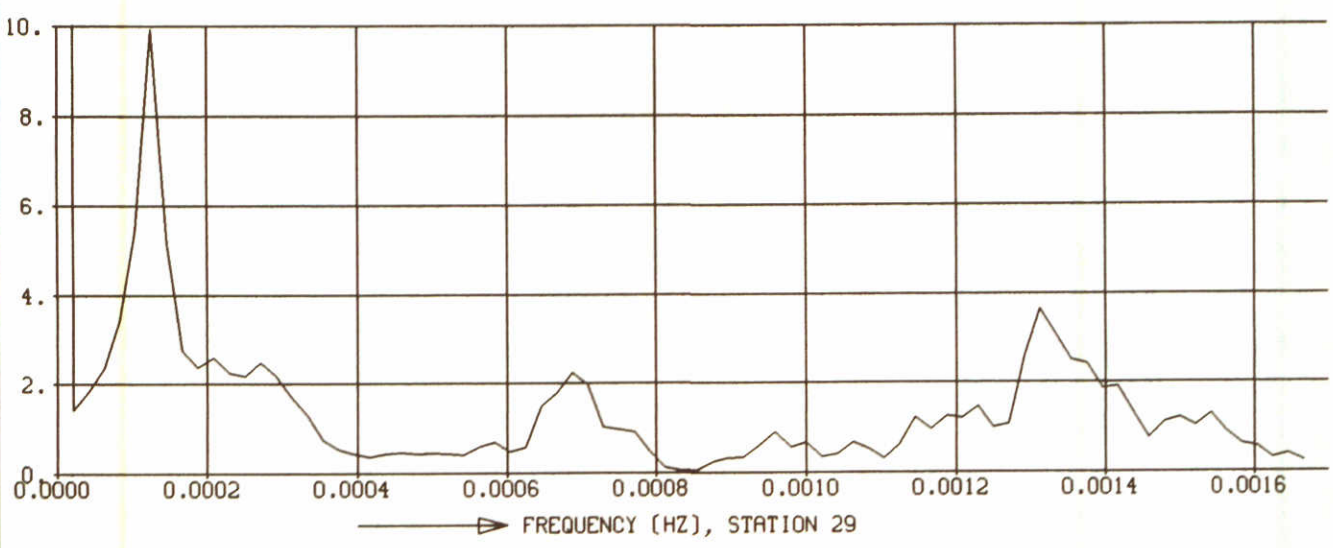
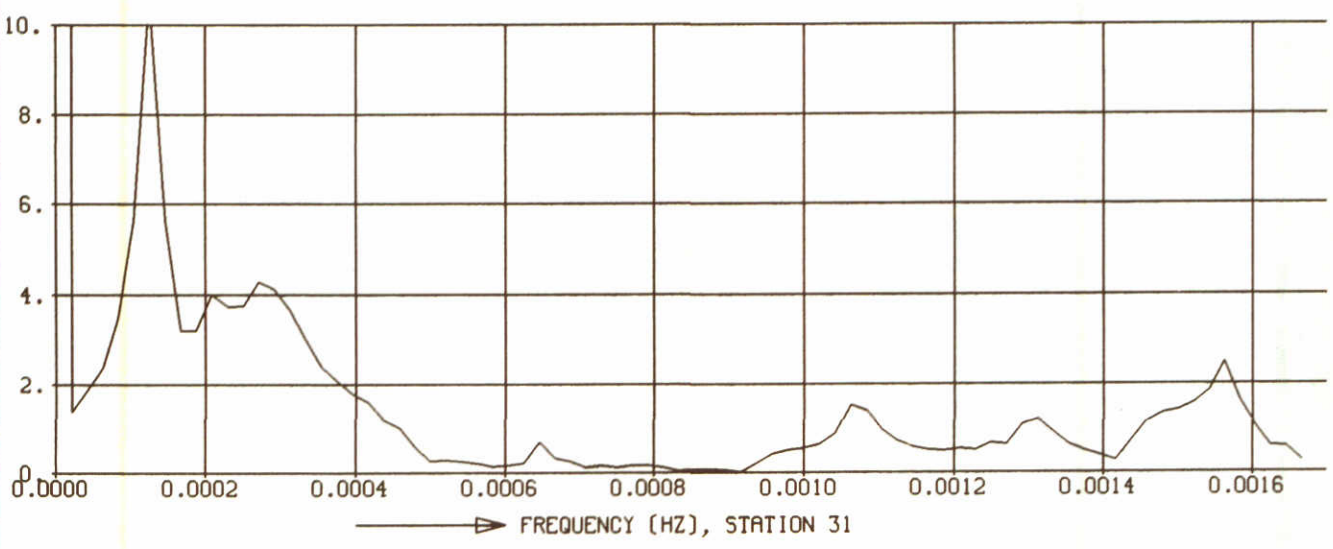
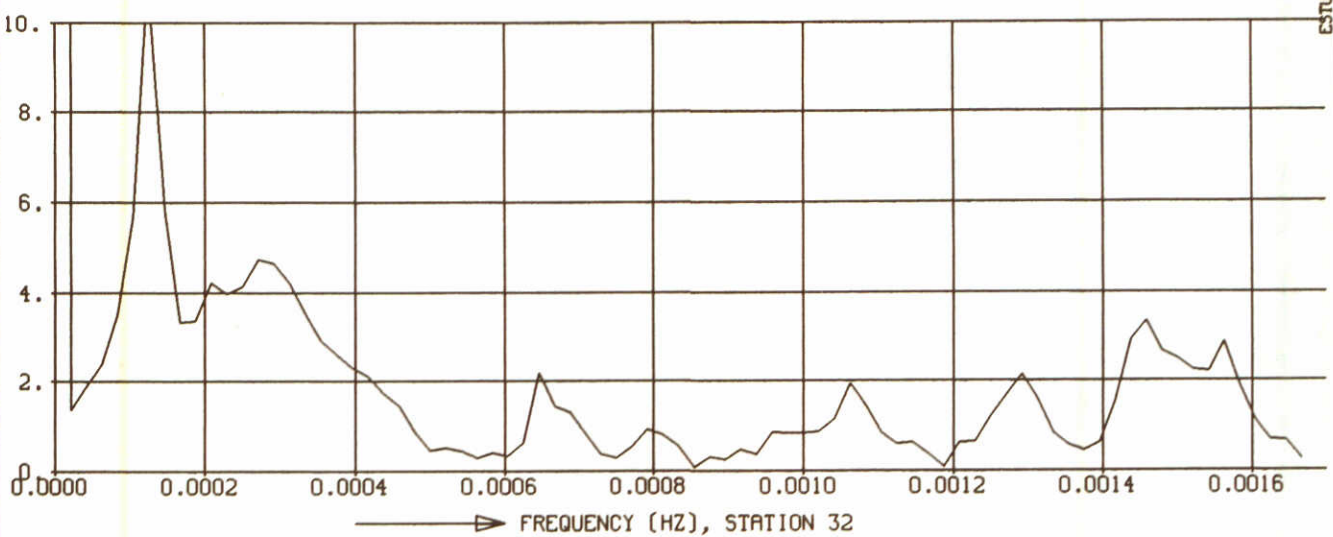
SEICHES EUROPOORT
SPECTRA VAN STATIONS 21, 25, 27 IN MM

14-06-91

OPC - S01

DELFT HYDRAULICS

FIG.19



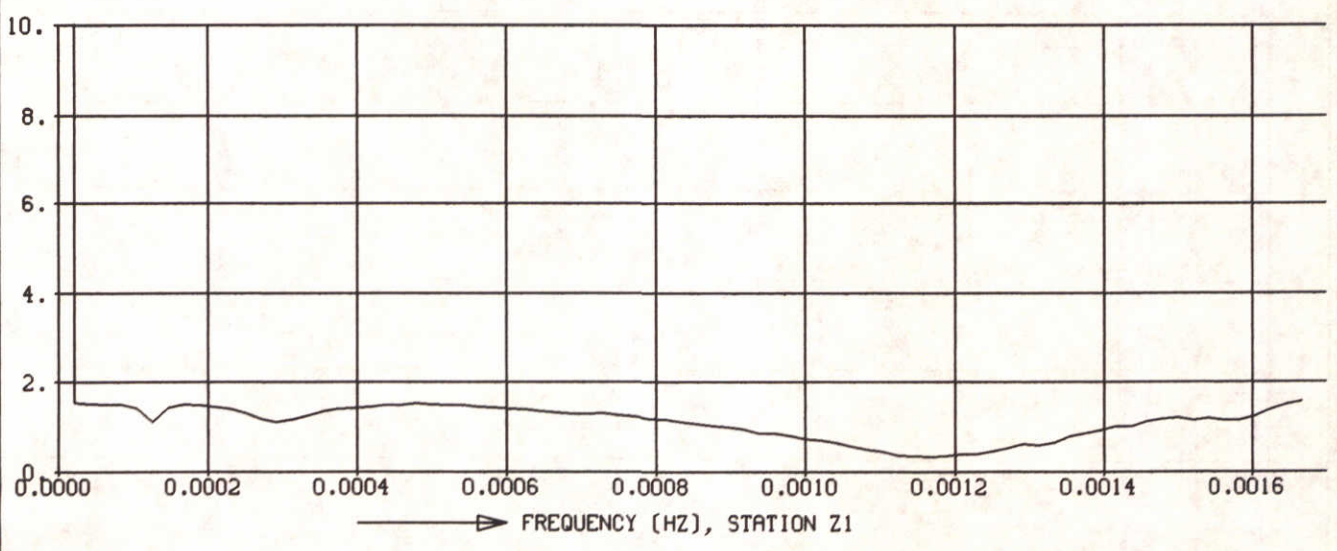
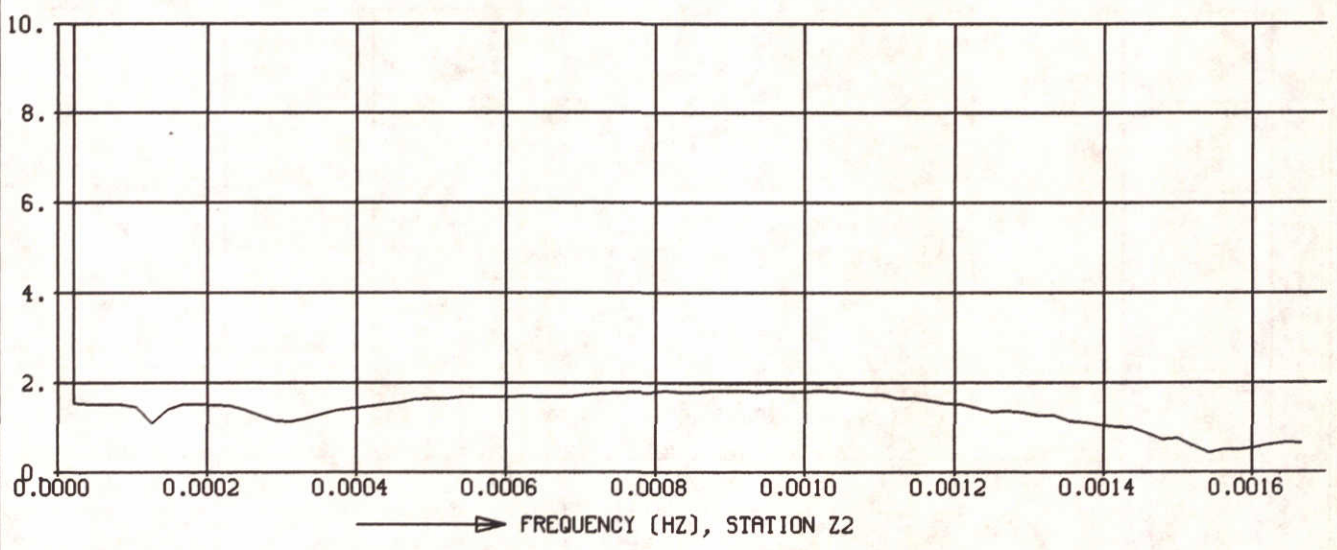
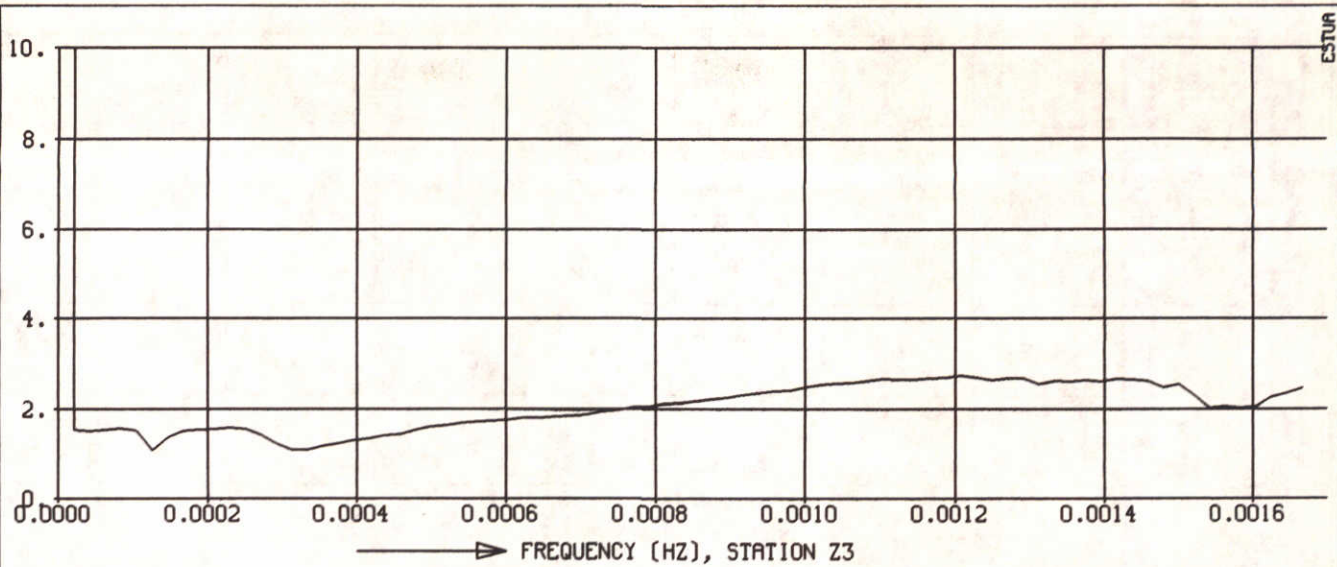
SEICHES EUROPOORT
SPECTRA VAN STATIONS 29, 31, 32 IN MM

14-06-91

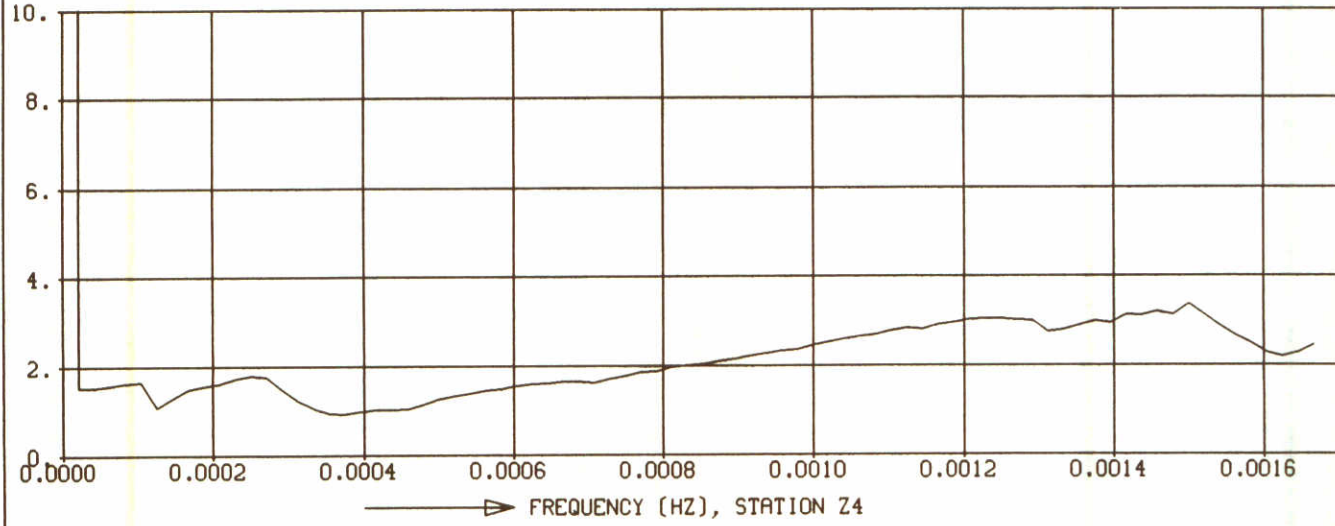
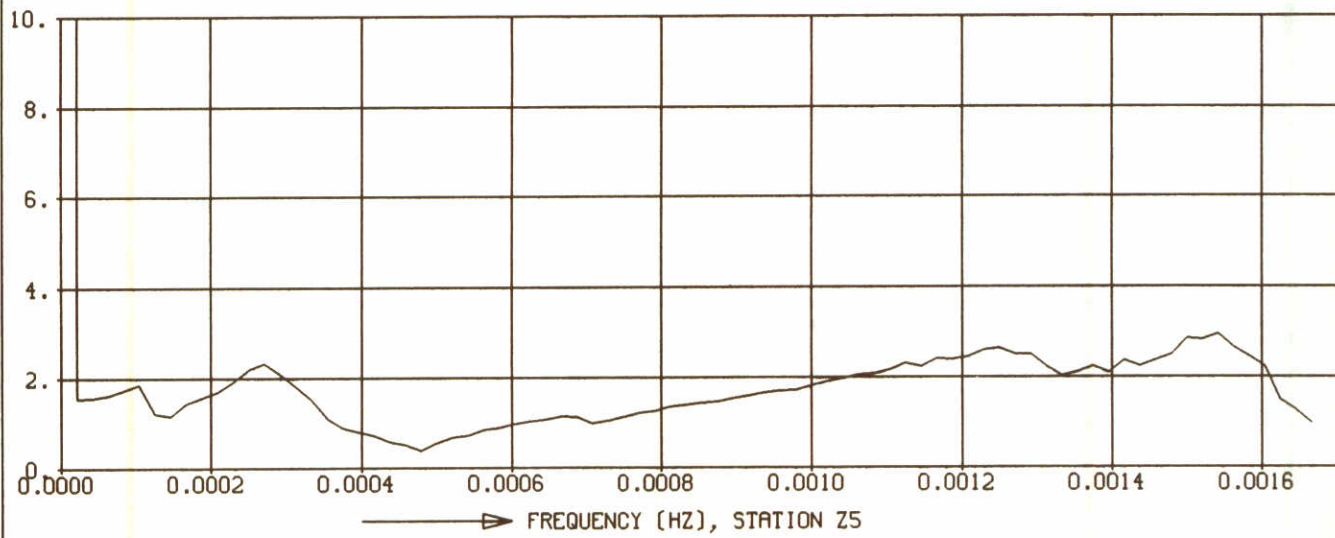
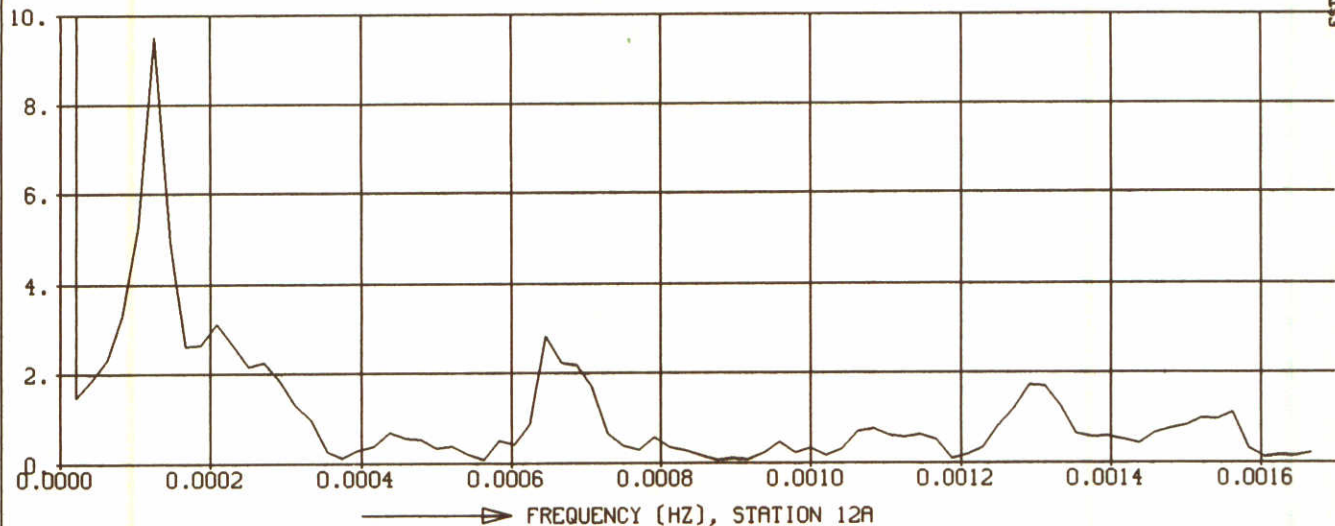
OPC - S01

DELFT HYDRAULICS

FIG.20



SEICHES EUROPOORT SPECTRA VAN STATIONS Z1, Z2, Z3 IN MM	14-06-91	
	OPC - S01	
DELFT HYDRAULICS		FIG. 21



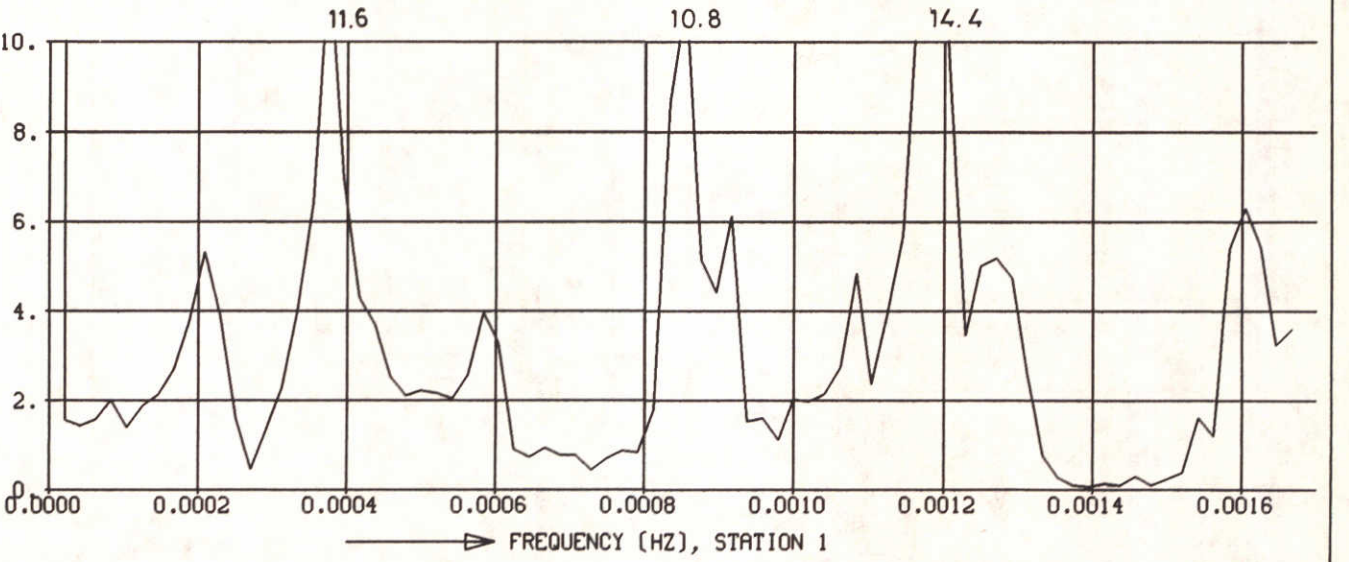
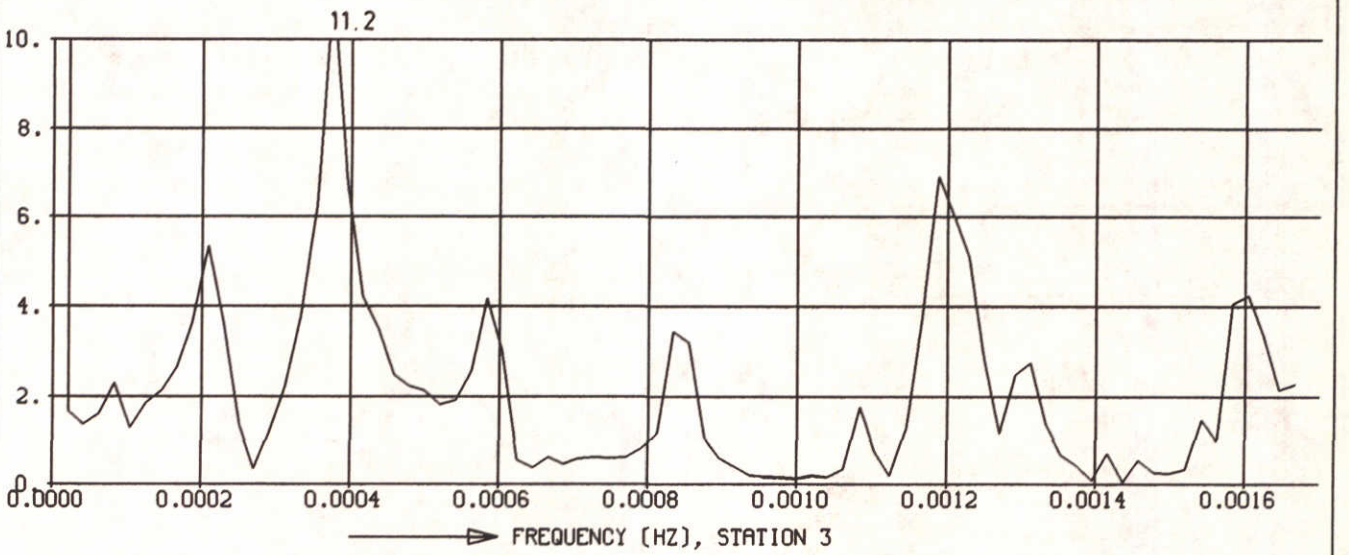
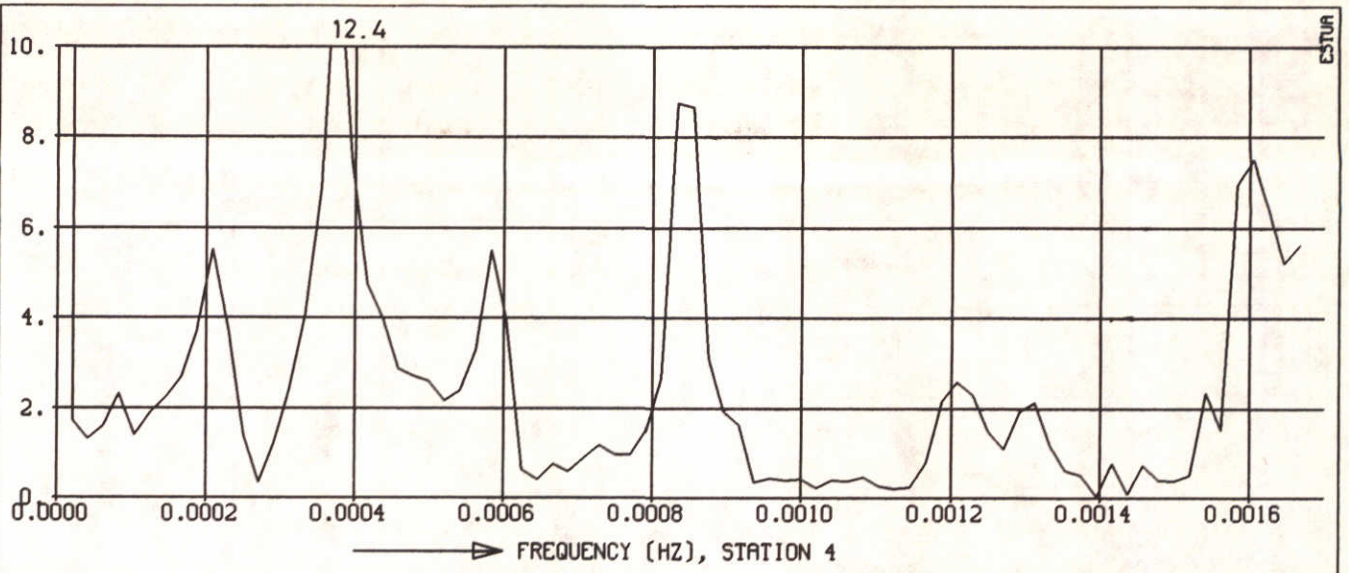
SEICHES EUROPOORT
SPECTRA VAN STATIONS Z4, Z5, 12A IN MM

14-06-91

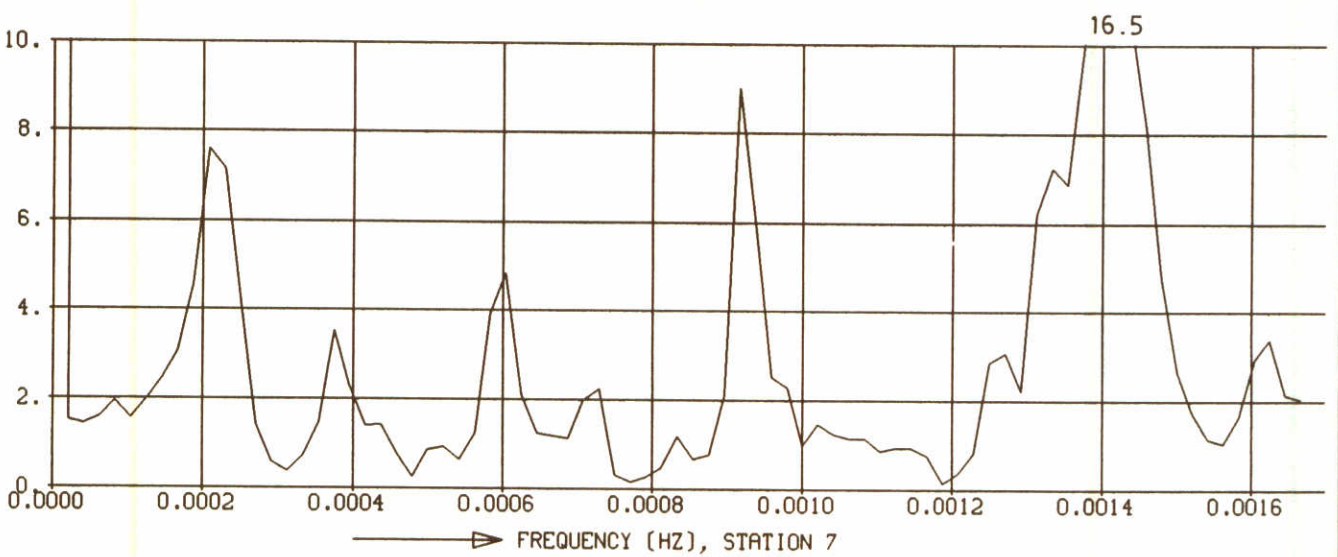
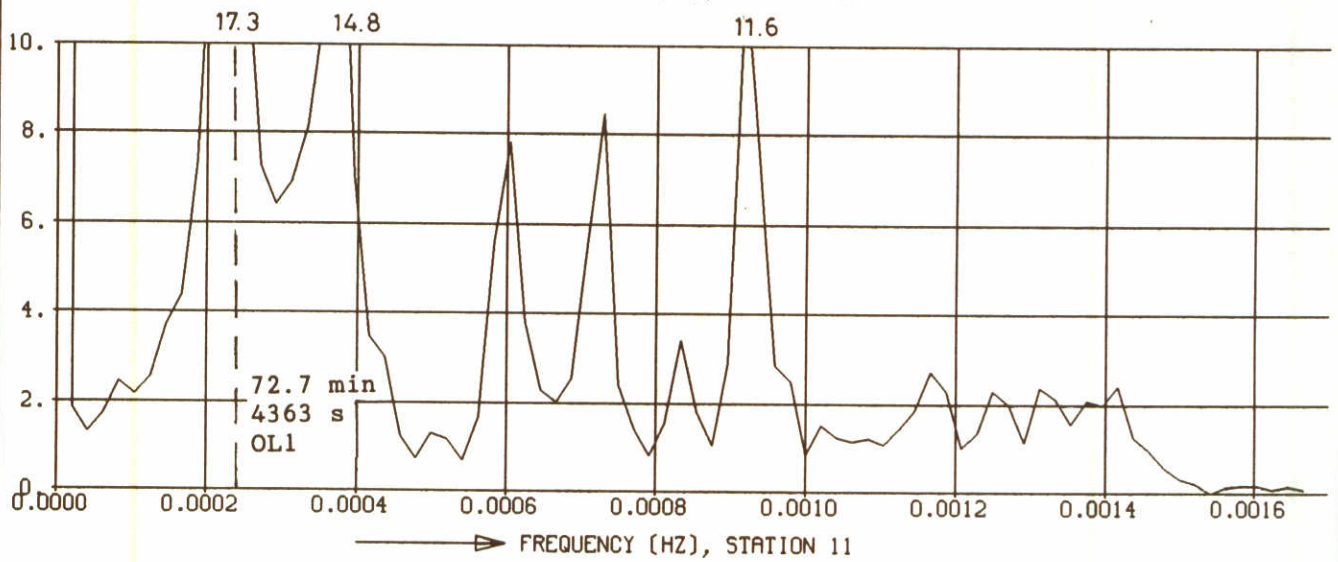
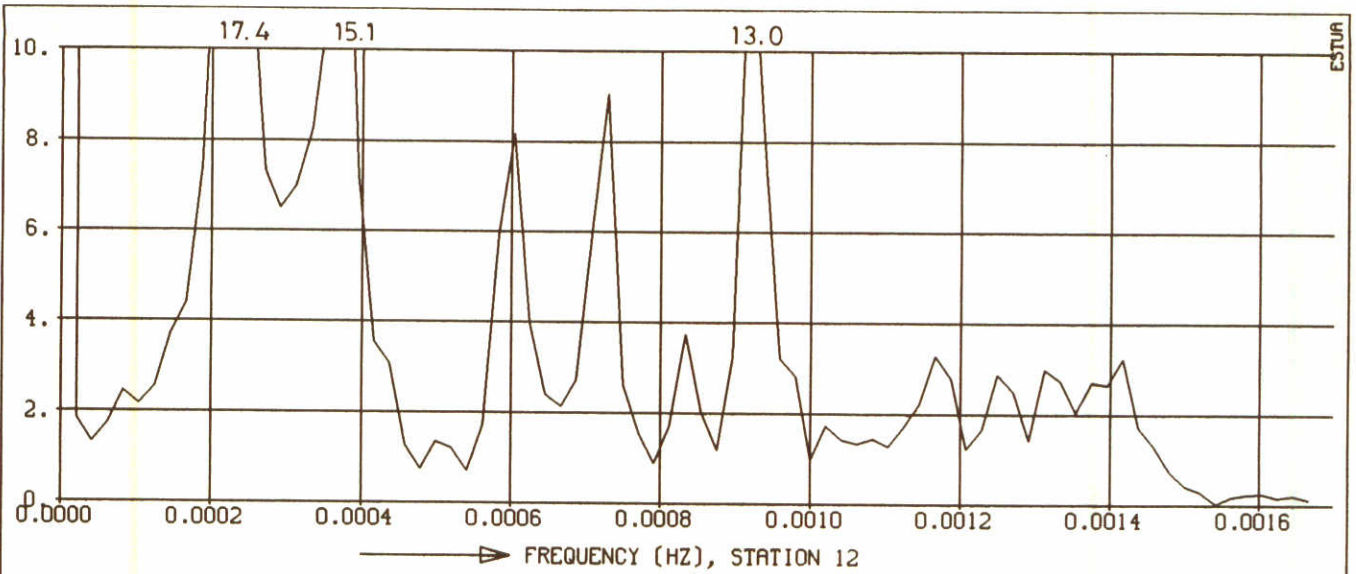
OPC - S01

DELFT HYDRAULICS

FIG. 22



SEICHES EUROPOORT SPECTRA VAN STATIONS 1, 3, 4 IN MM	14-06-91
	OPC - S02
DELFT HYDRAULICS	FIG. 23



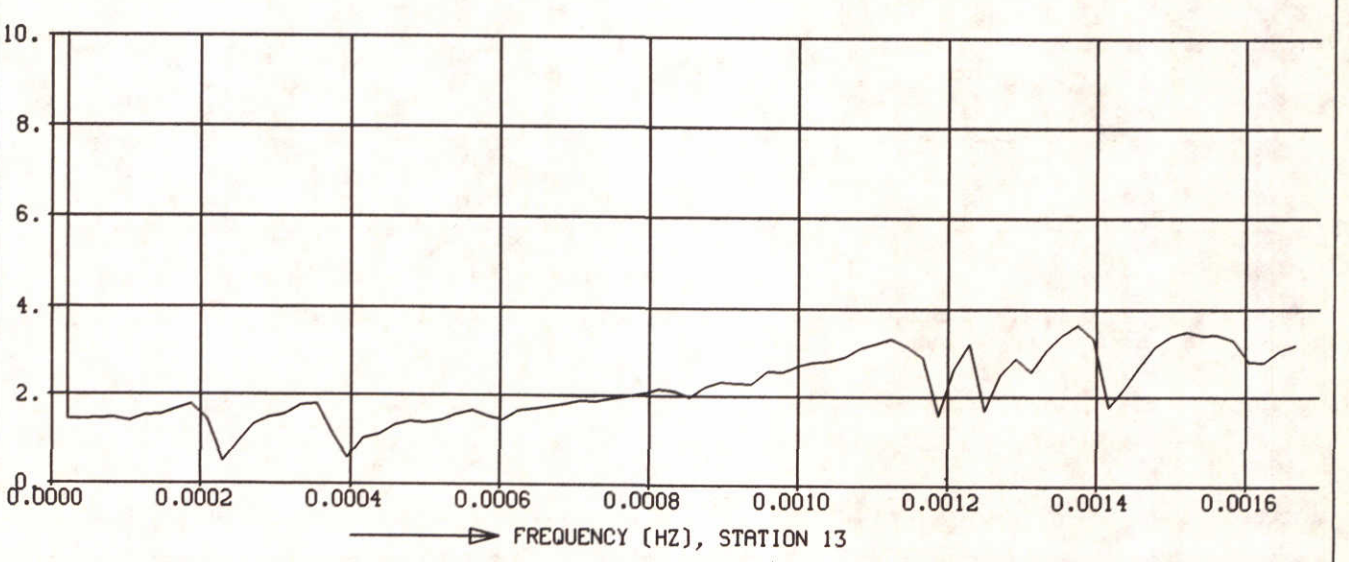
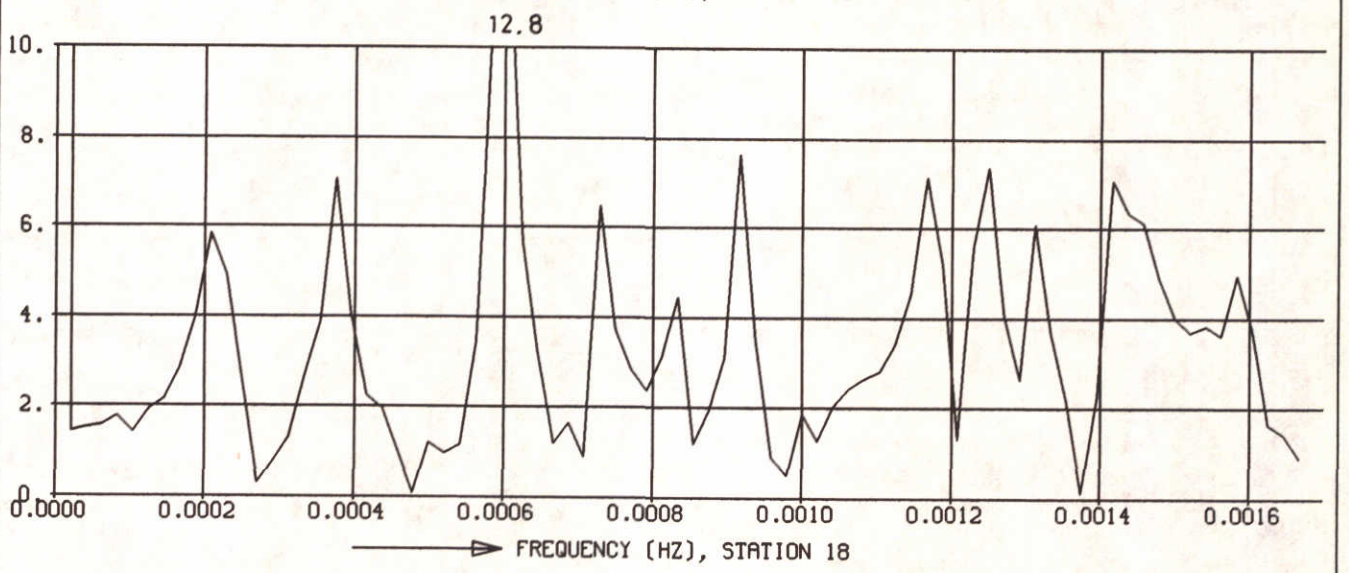
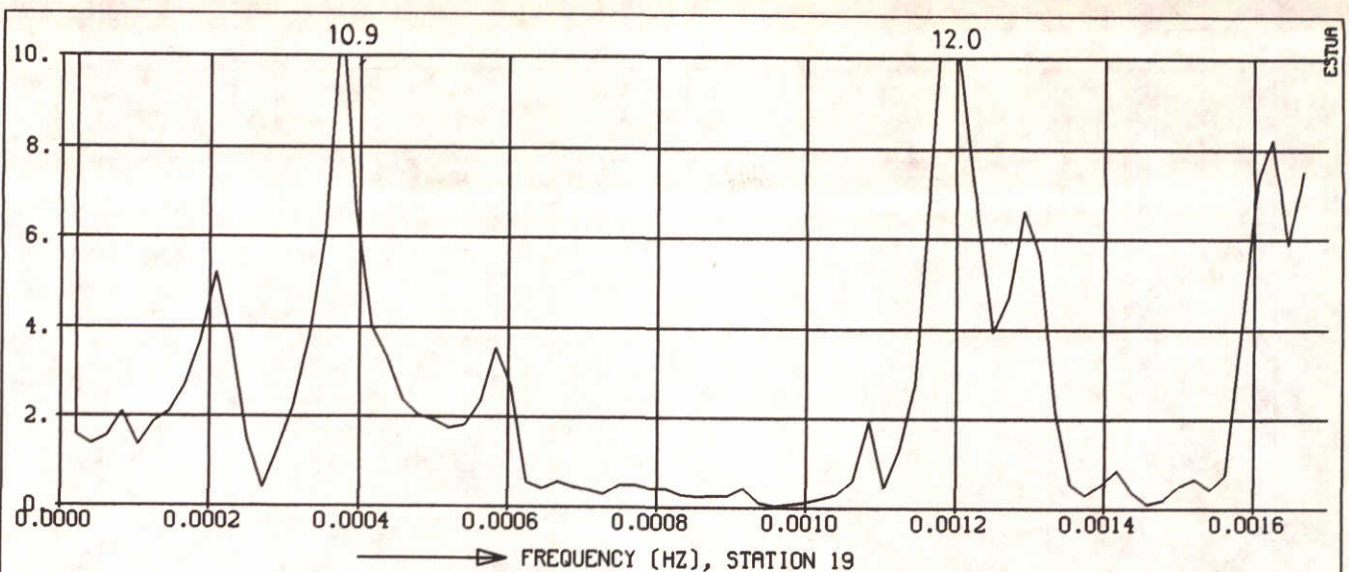
SEICHES EUROPOORT
SPECTRA VAN STATIONS 7, 11, 12 IN MM

14-06-91

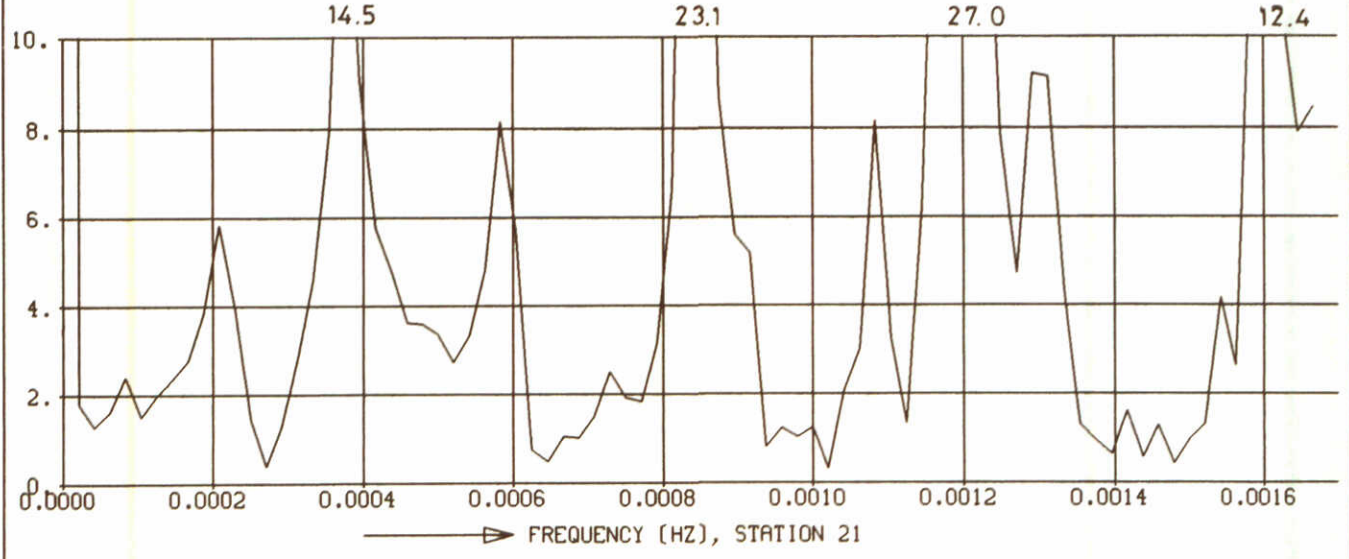
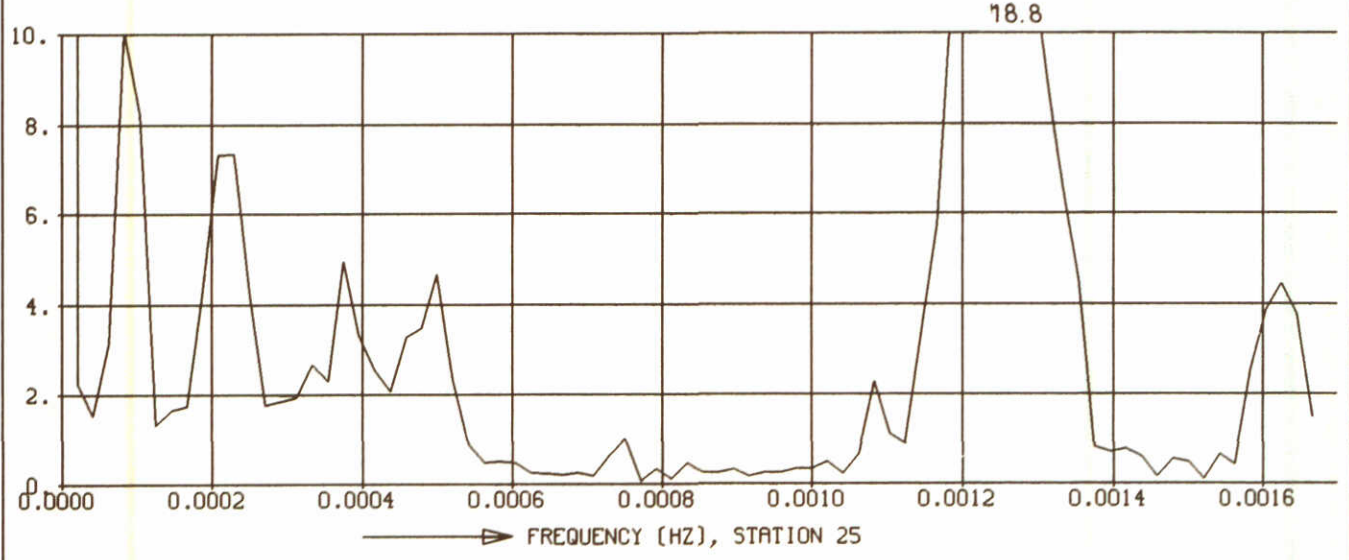
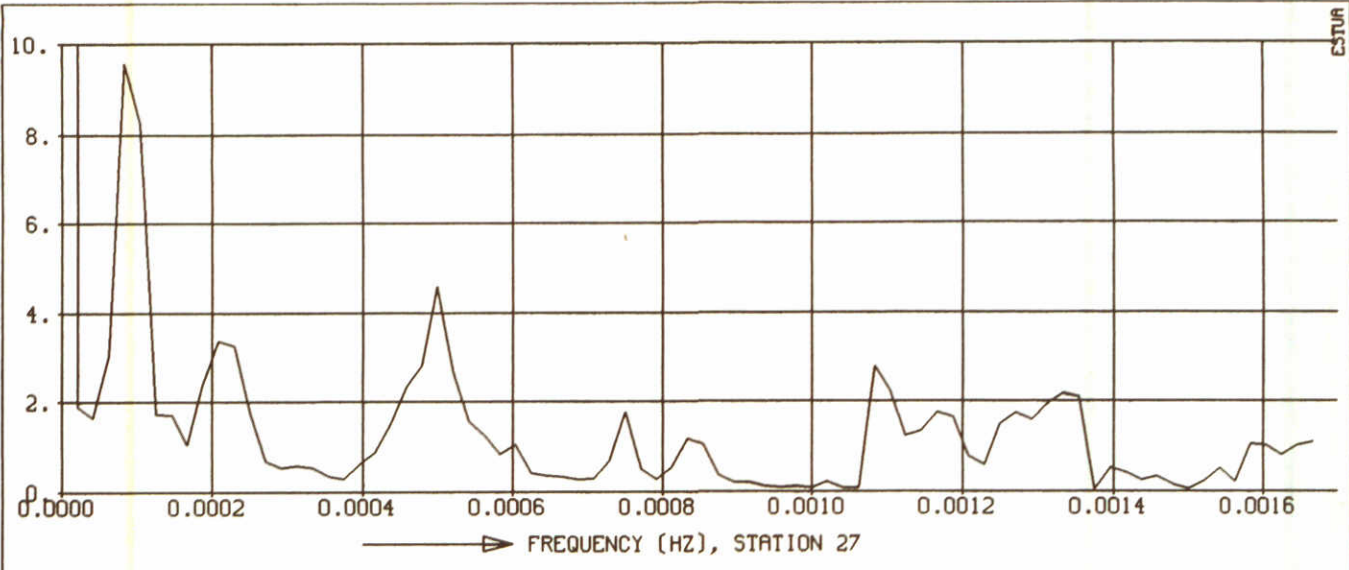
OPC - S02

DELFT HYDRAULICS

FIG. 24



SEICHES EUROPOORT SPECTRA VAN STATIONS 13, 18, 19 IN MM	14-06-91
	OPC - S02
DELFT HYDRAULICS	FIG.25



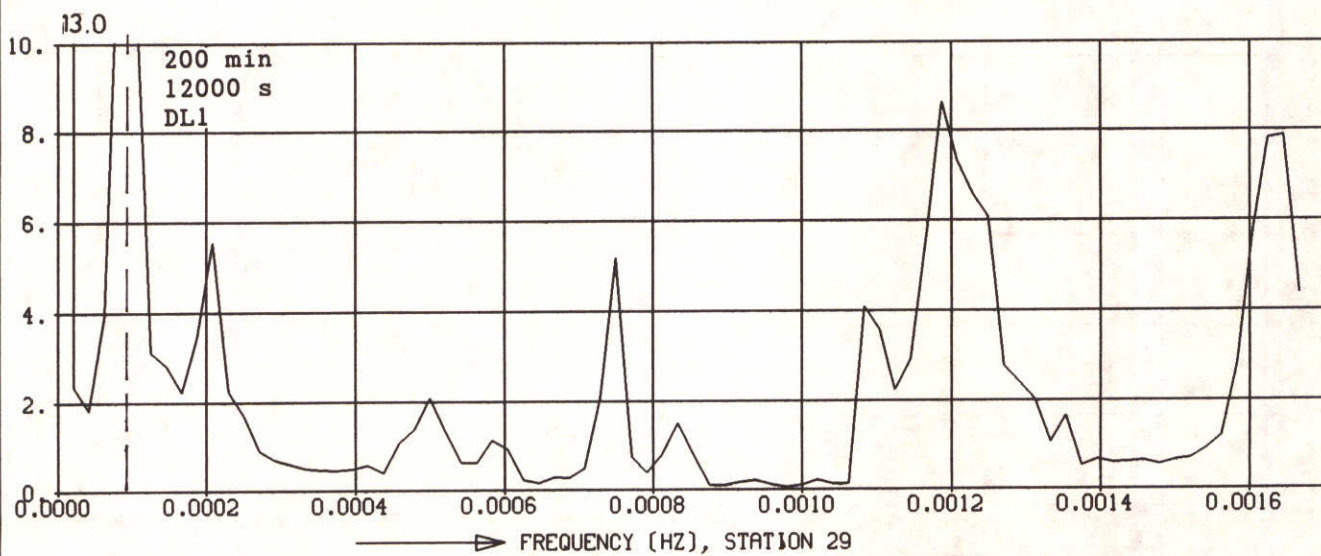
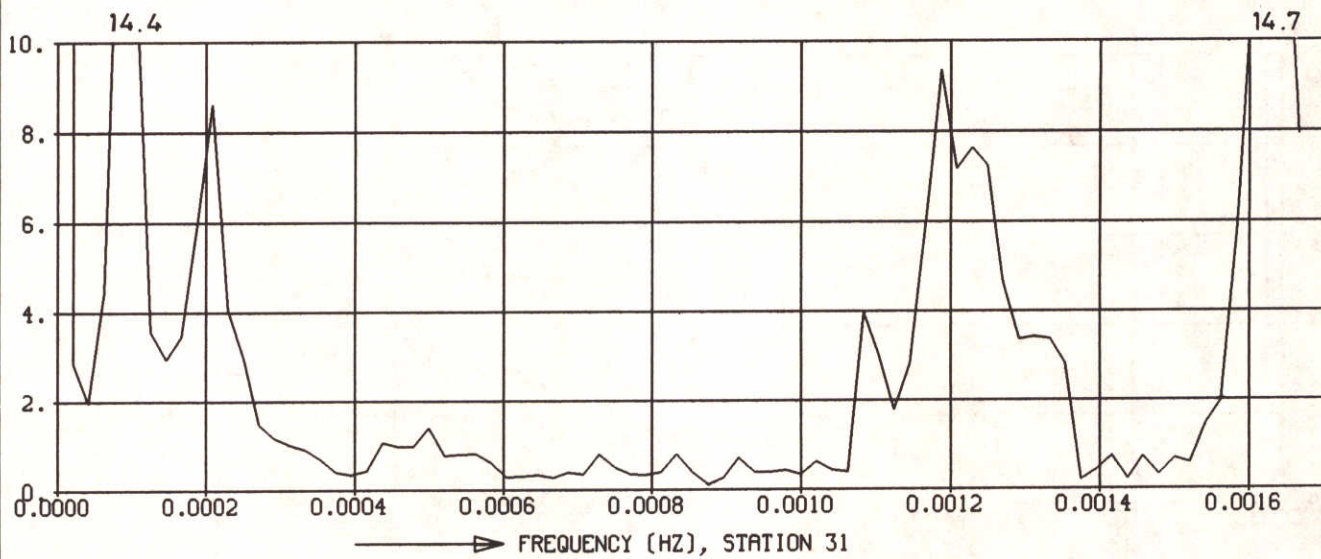
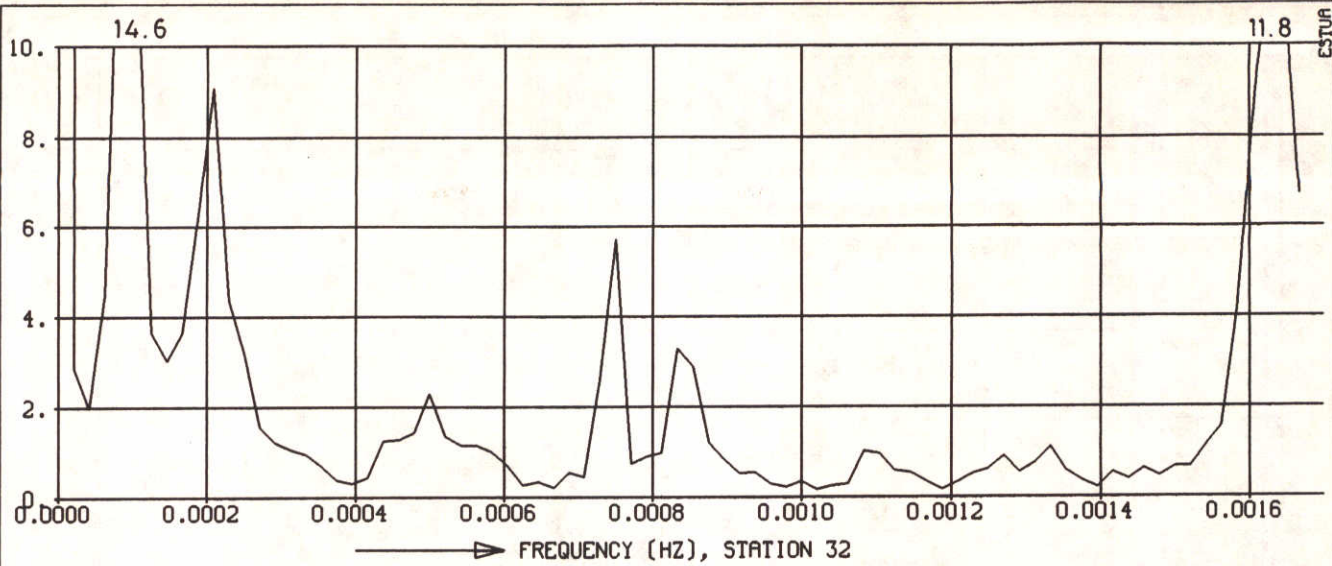
SEICHES EUROPOORT
SPECTRA VAN STATIONS 21, 25, 27 IN MM

14-06-91

OPC - S02

DELFT HYDRAULICS

FIG. 26



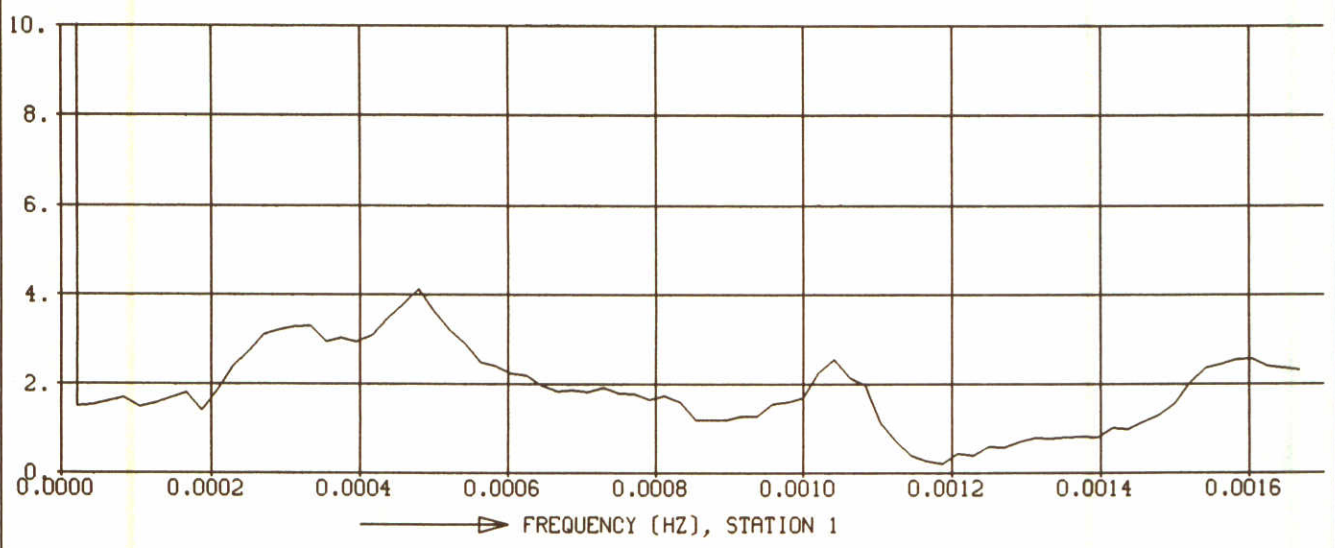
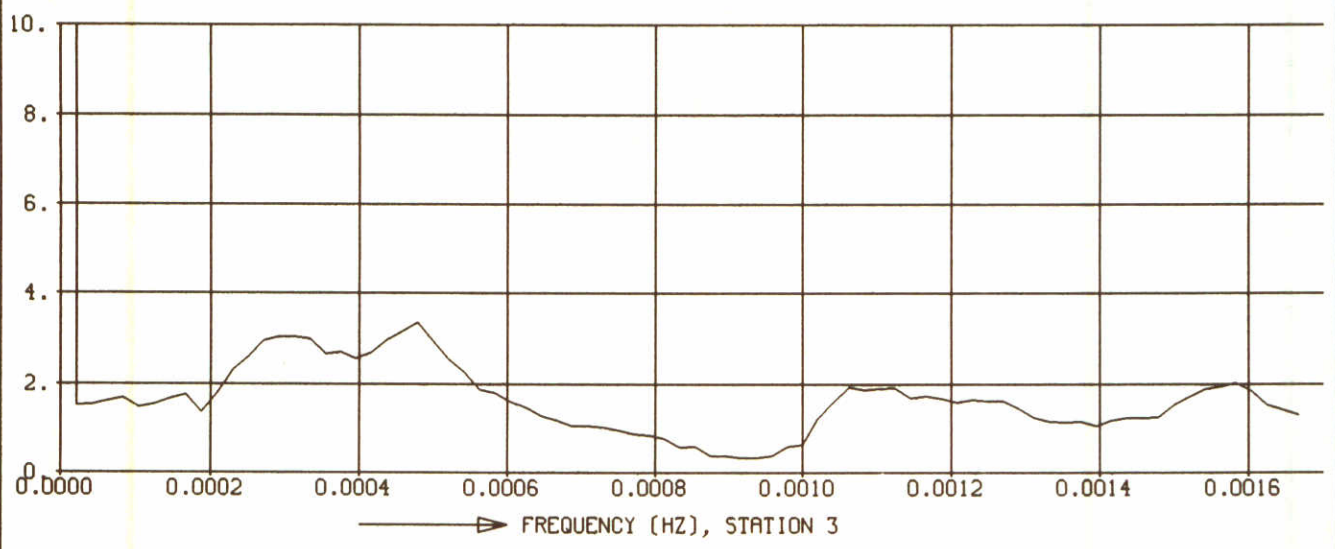
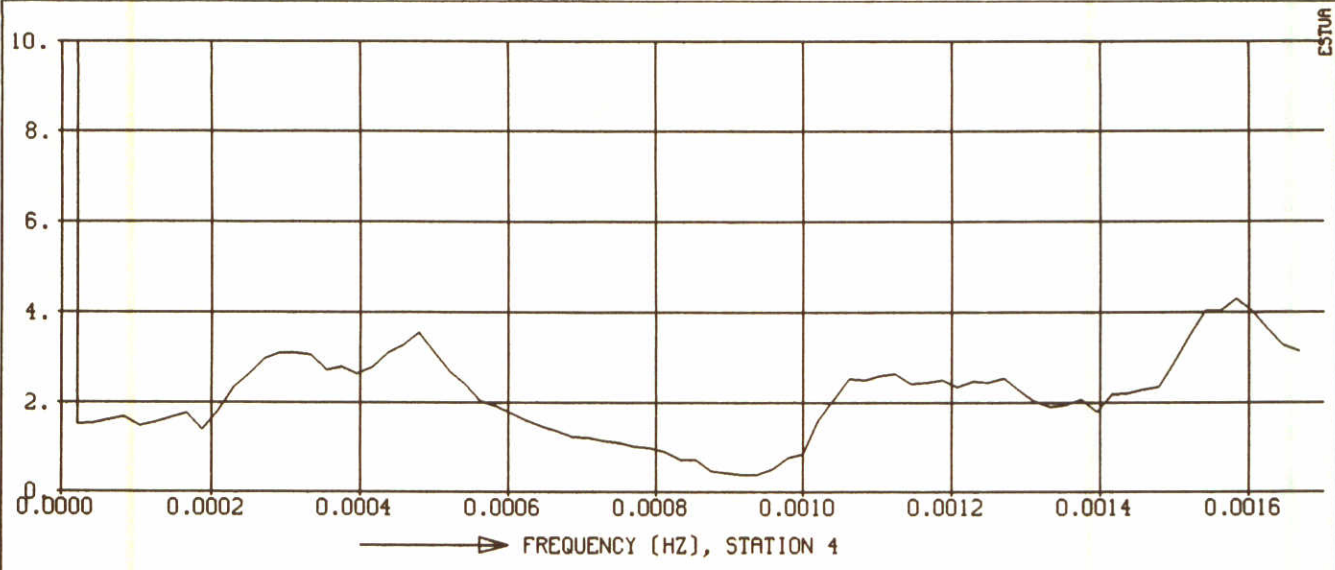
SEICHES EUROPOORT
SPECTRA VAN STATIONS 29, 31, 32 IN MM

14-06-91

OPC - S02

DELFT HYDRAULICS

FIG. 27



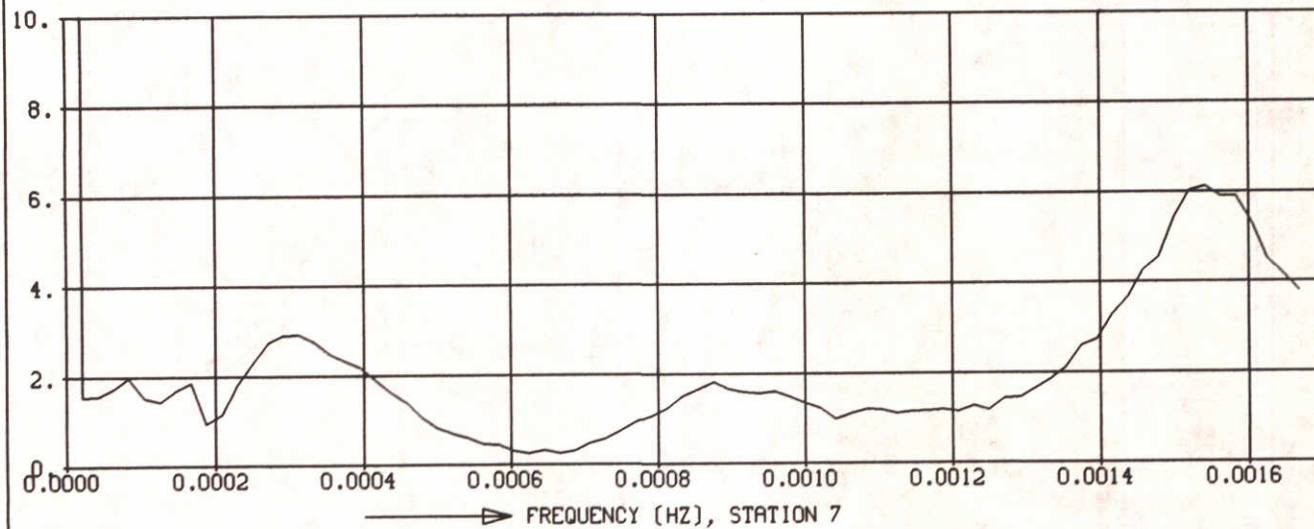
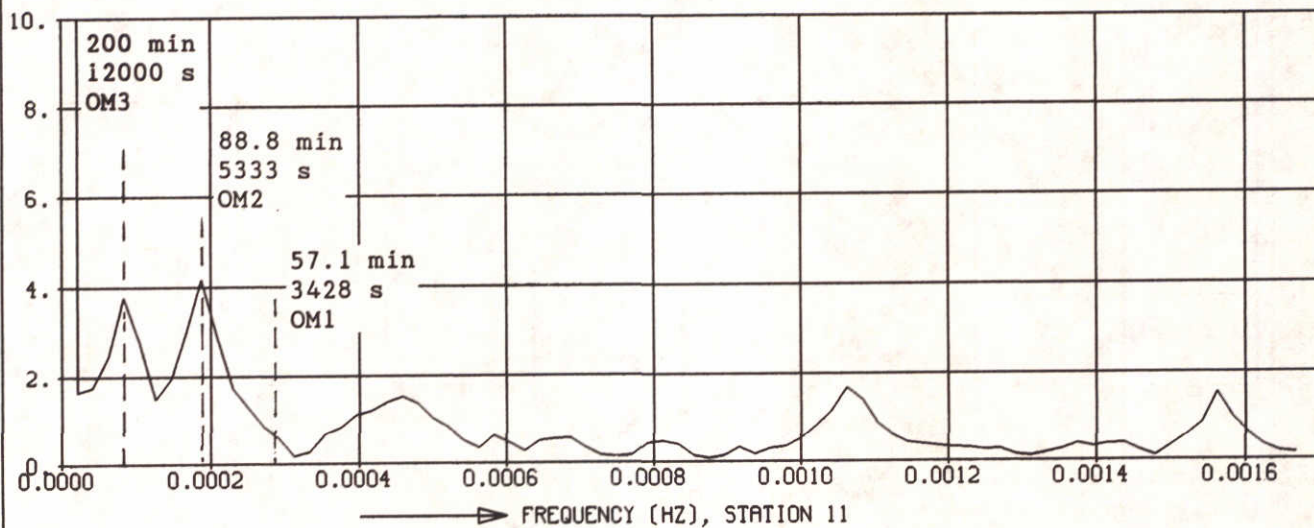
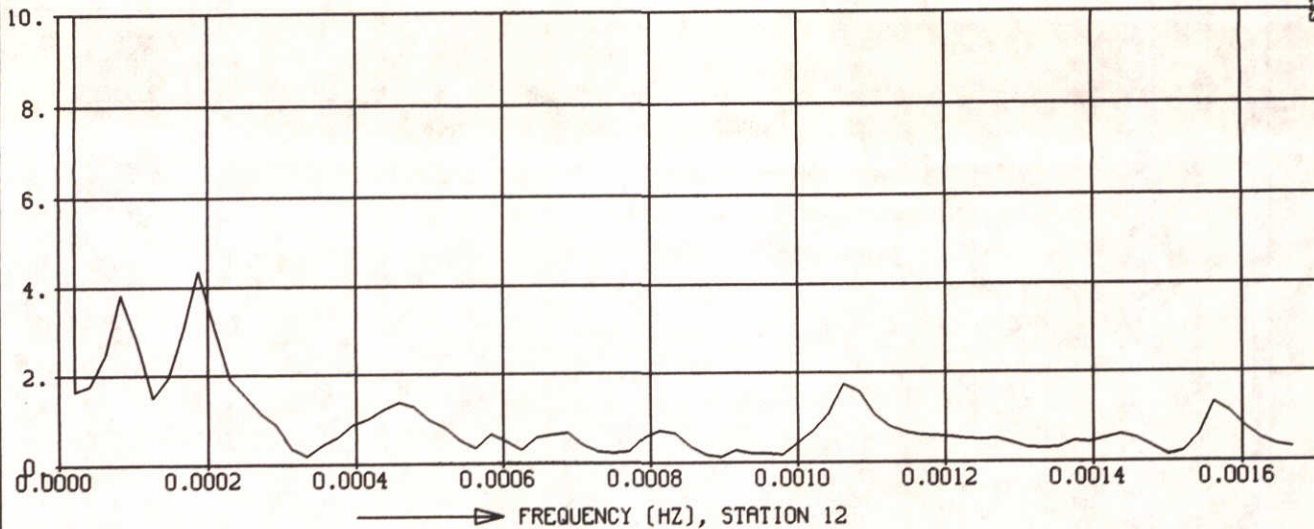
SEICHES EUROPOORT
SPECTRA VAN STATIONS 1, 3, 4 IN MM

06/14/91

OPC - od6

DELFT HYDRAULICS

FIG.28



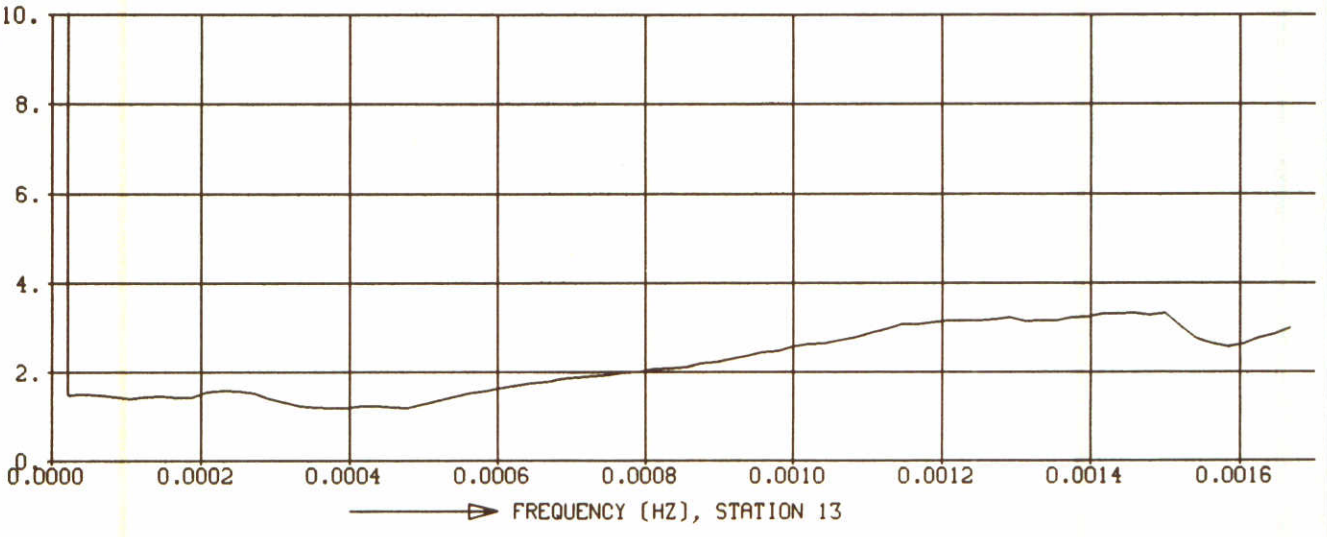
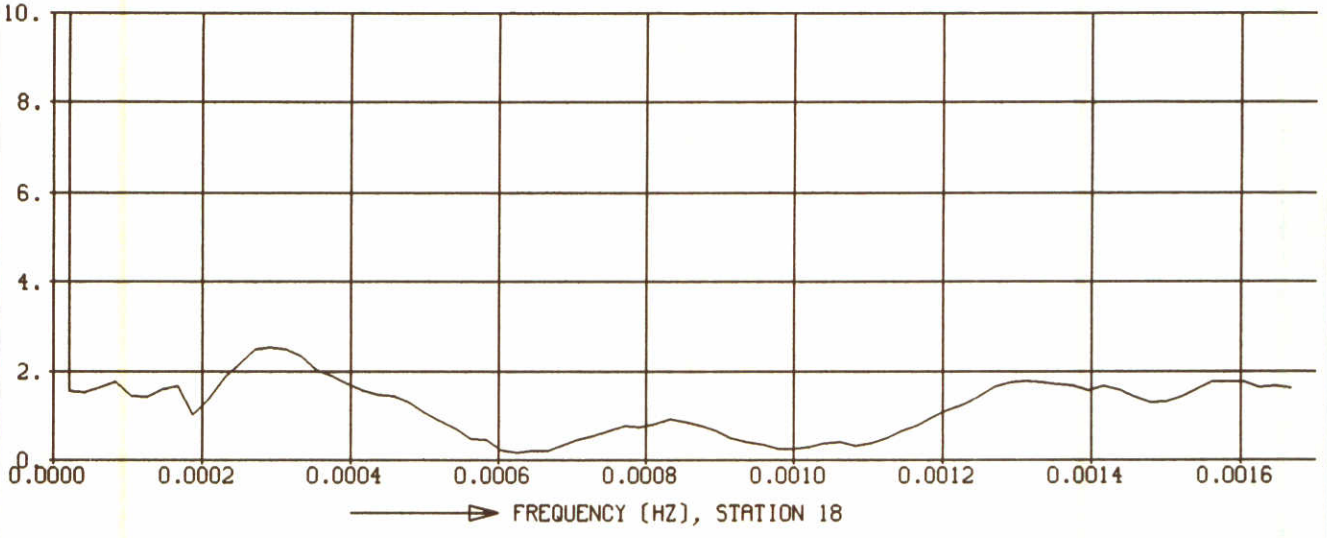
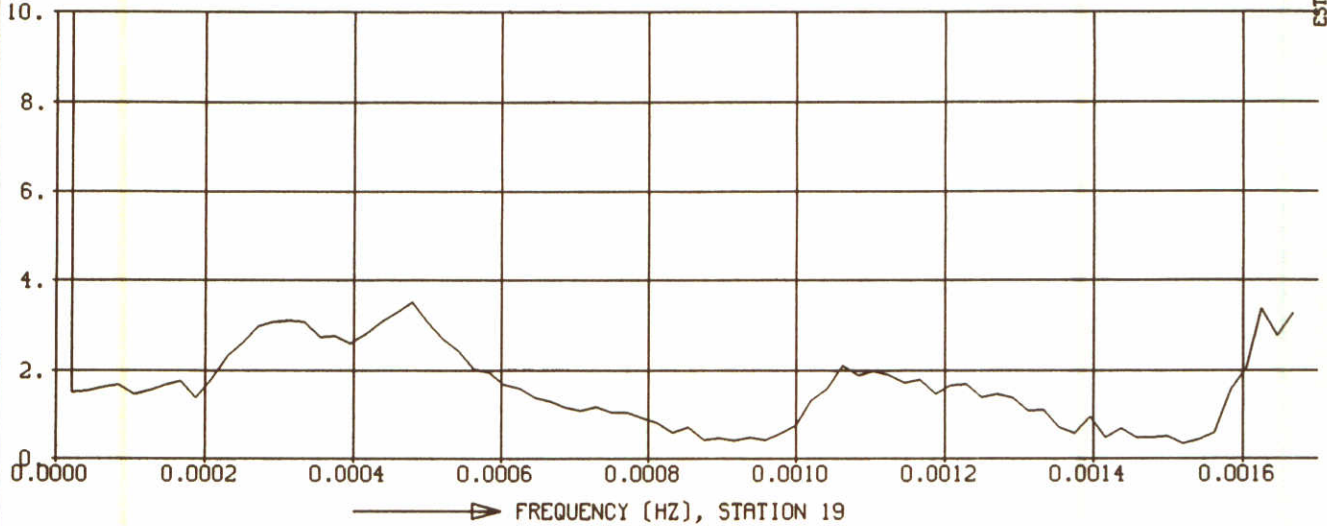
SEICHES EUROPOORT
SPECTRA VAN STATIONS 7, 11, 12 IN MM

06/14/91

OPC - od6

DELFT HYDRAULICS

FIG.29



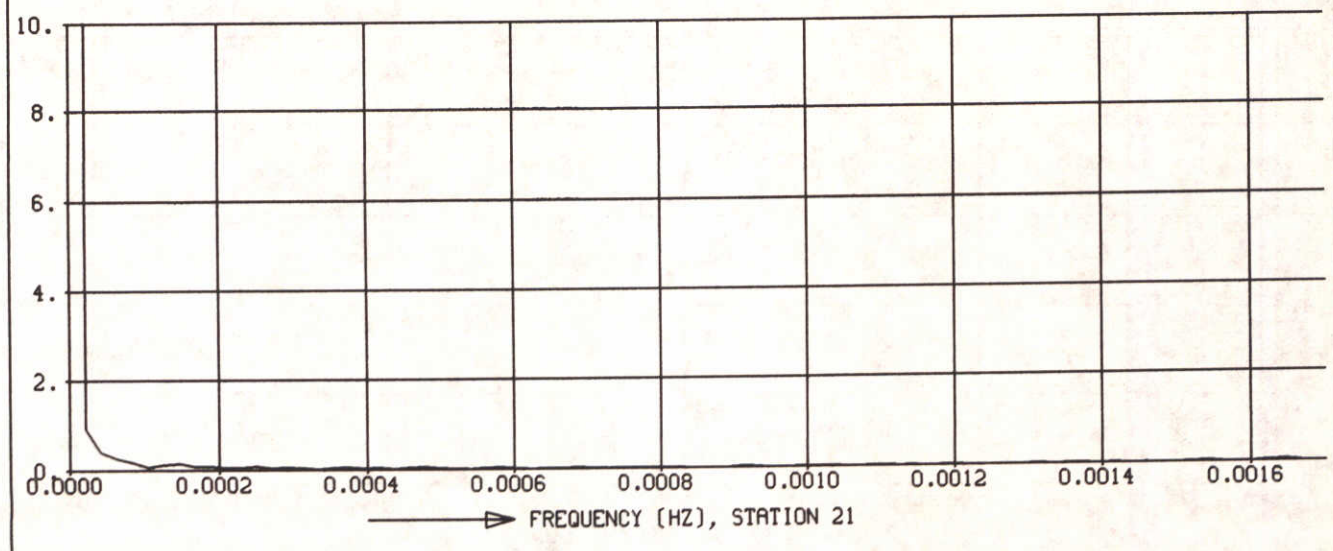
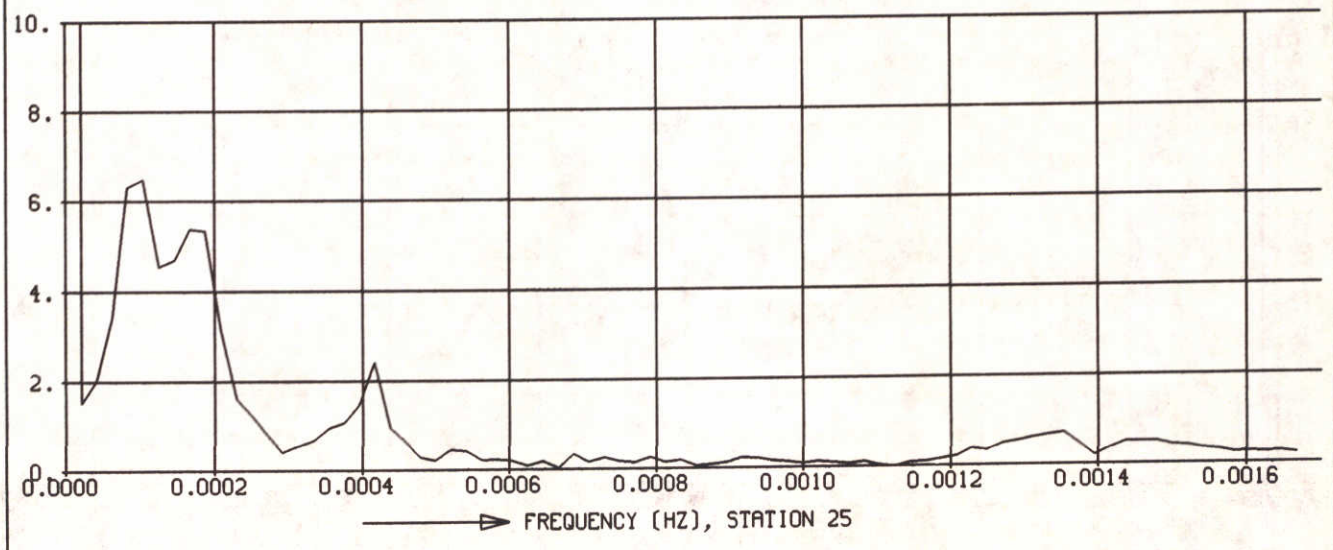
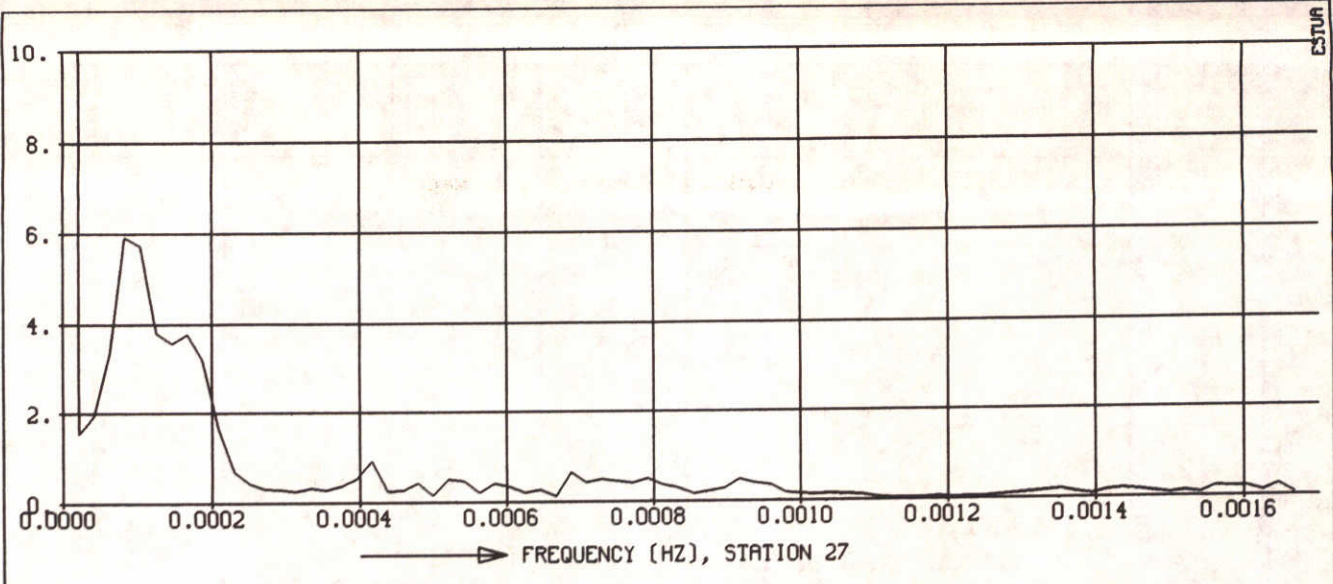
SEICHES EUROPOORT
SPECTRA VAN STATIONS 13, 18, 19 IN MM

06/14/91

OPC - od6

DELFT HYDRAULICS

FIG. 30



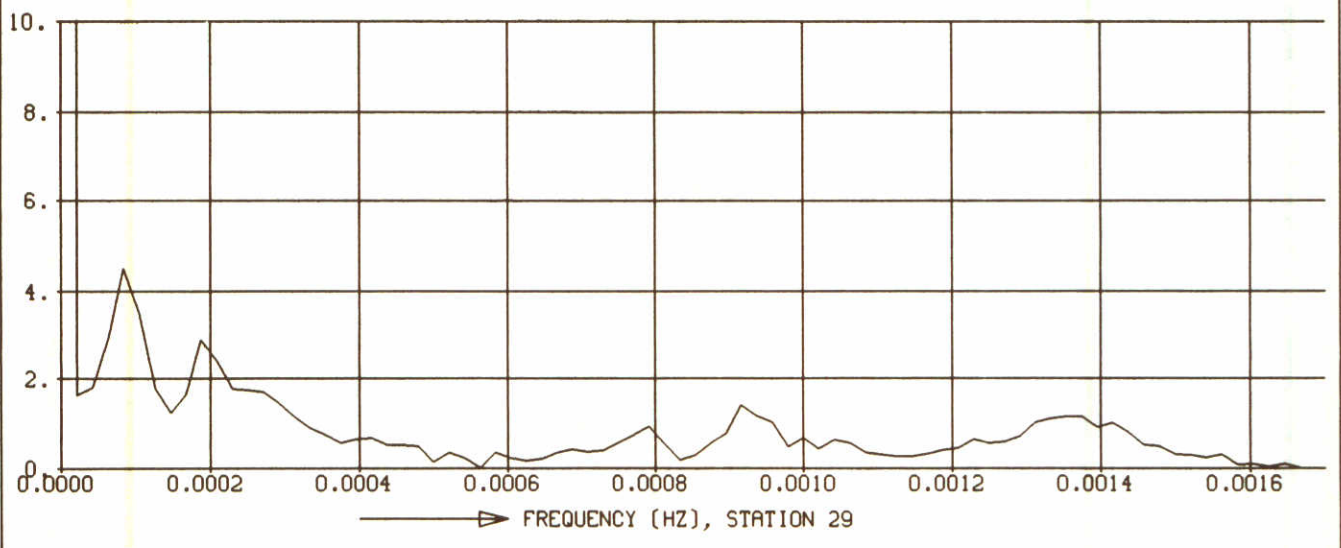
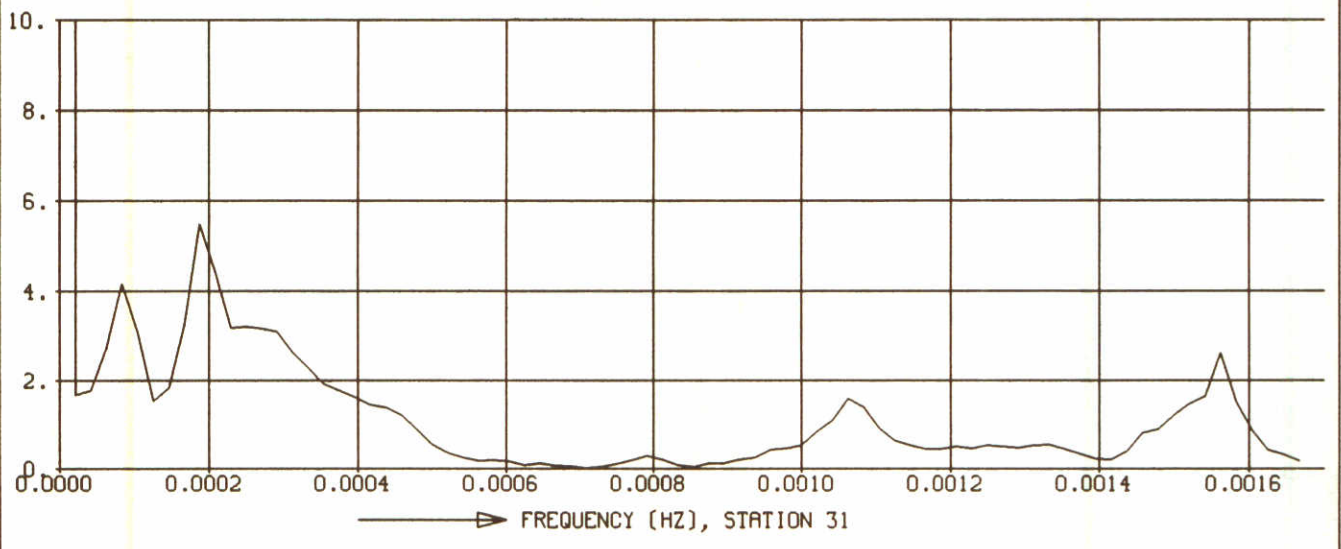
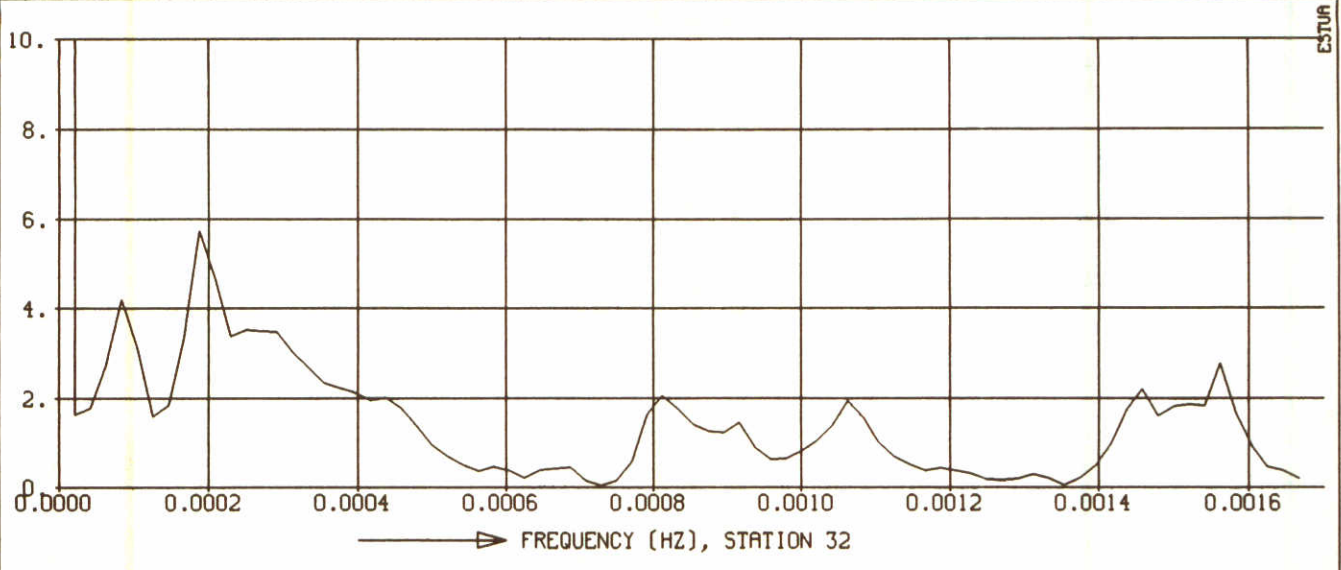
SEICHES EUROPOORT
SPECTRA VAN STATIONS 21, 25, 27 IN MM

06/14/91

OPC - od6

DELFT HYDRAULICS

FIG. 31



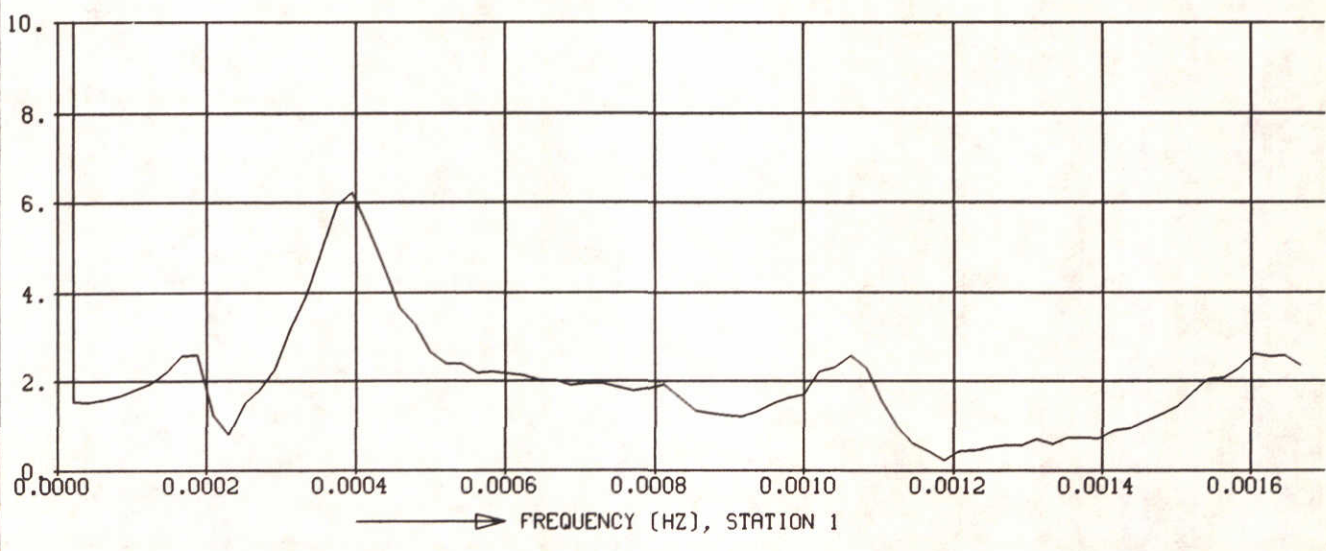
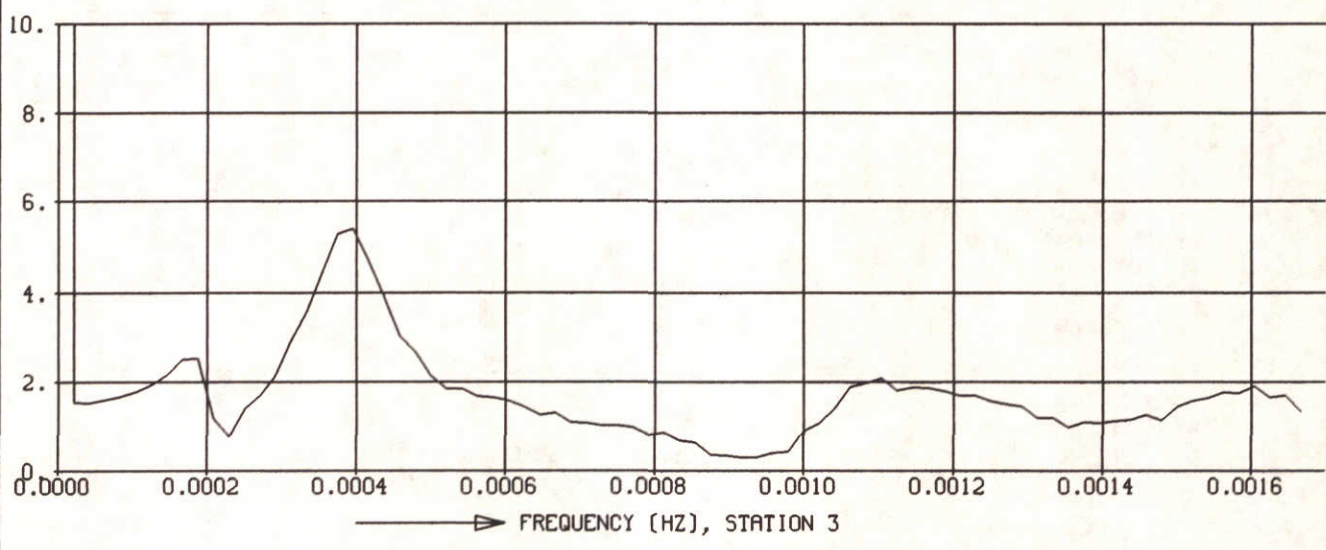
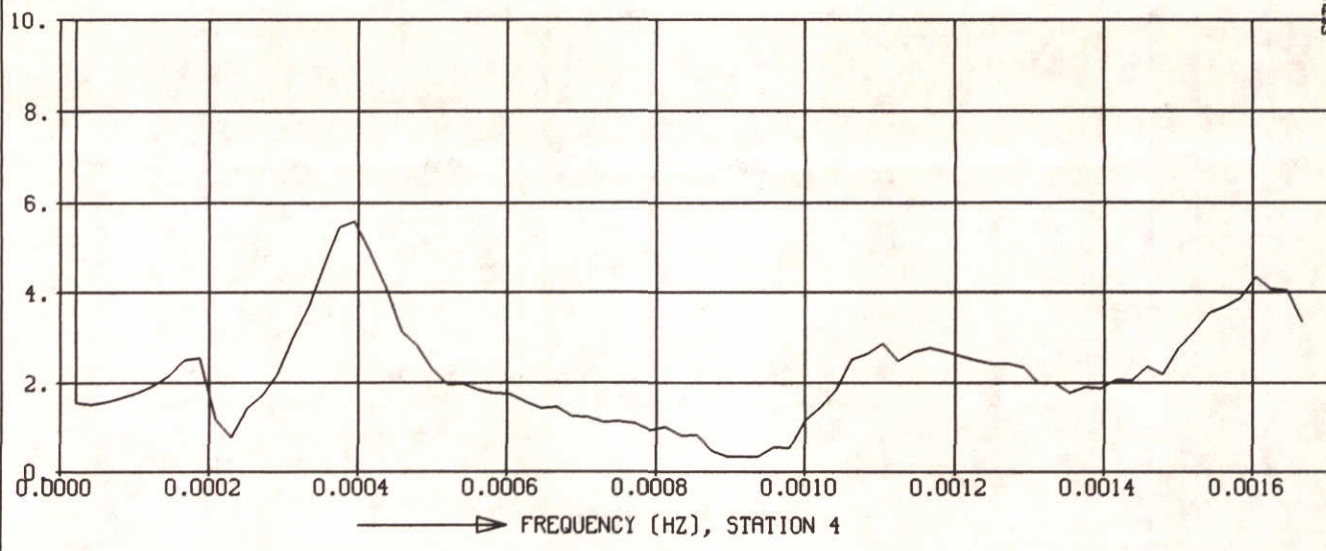
SEICHES EUROPOORT
SPECTRA VAN STATIONS 29, 31, 32 IN MM

06/14/91

OPC - od6

DELFT HYDRAULICS

FIG. 32



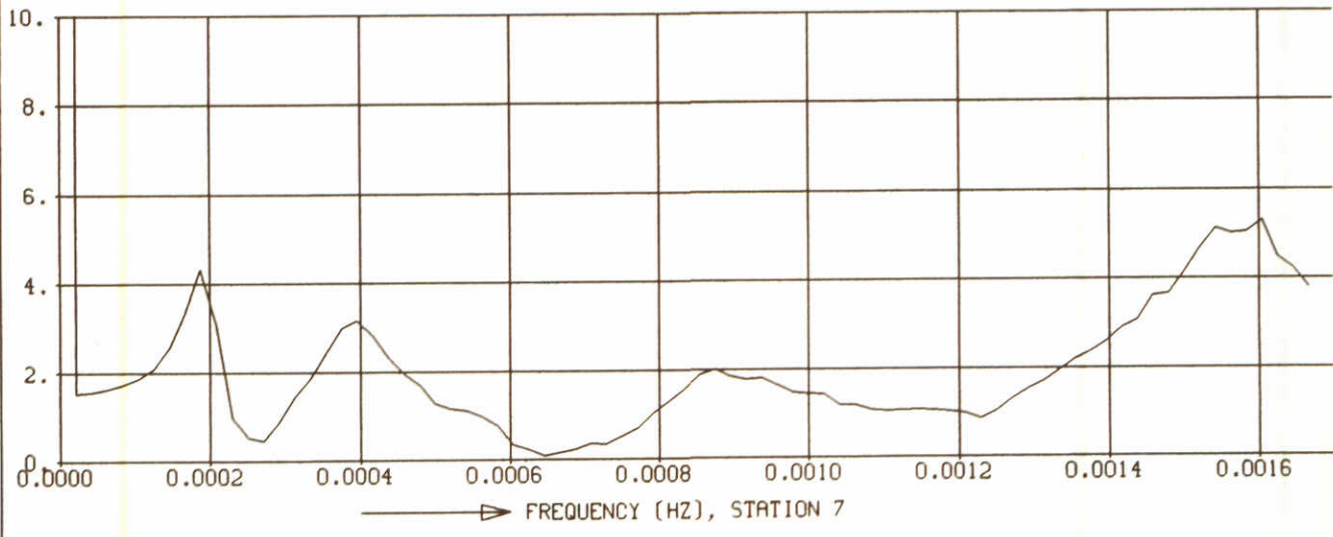
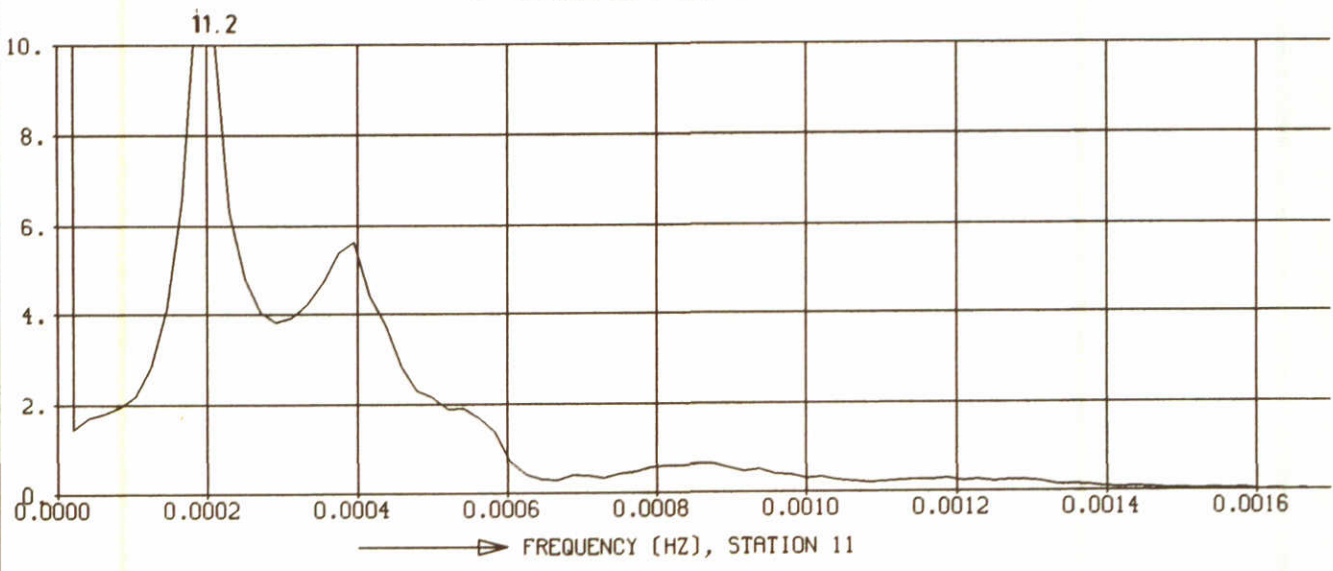
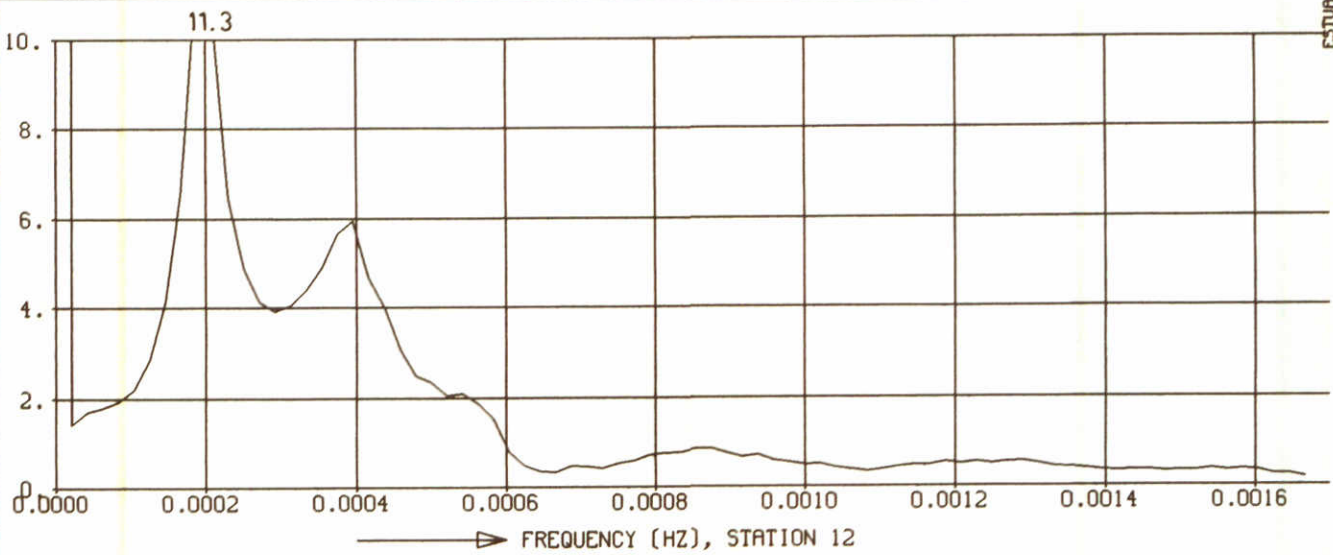
SEICHES EUROPOORT
SPECTRA VAN STATIONS 1, 3, 4 IN MM

07/01/91

OPC = od7

DELFT HYDRAULICS

FIG. 33



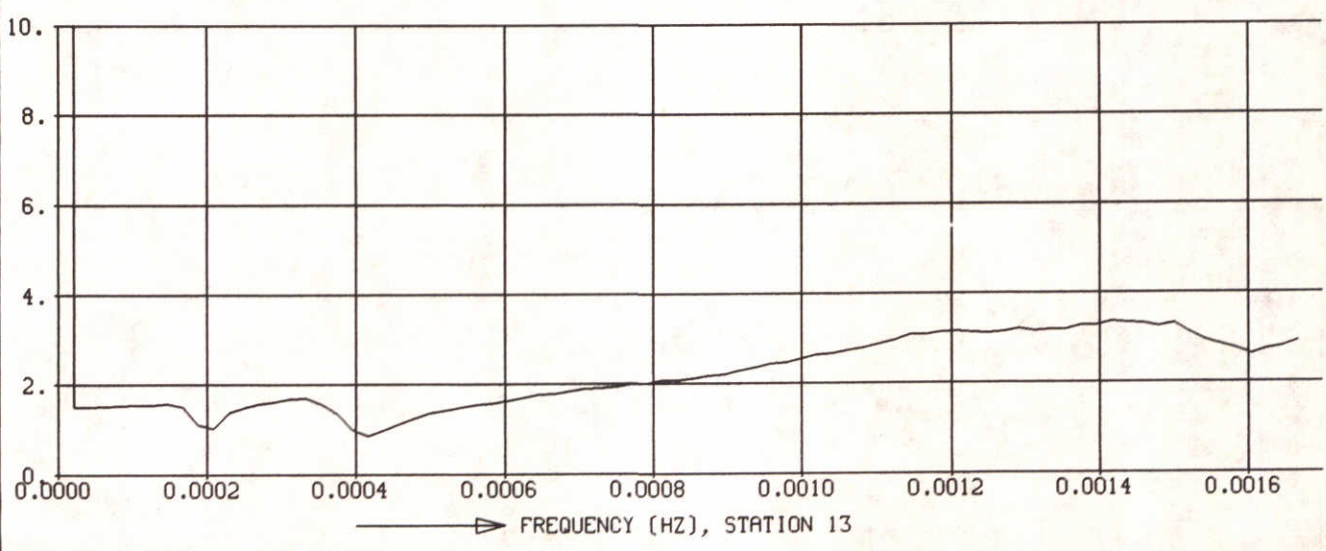
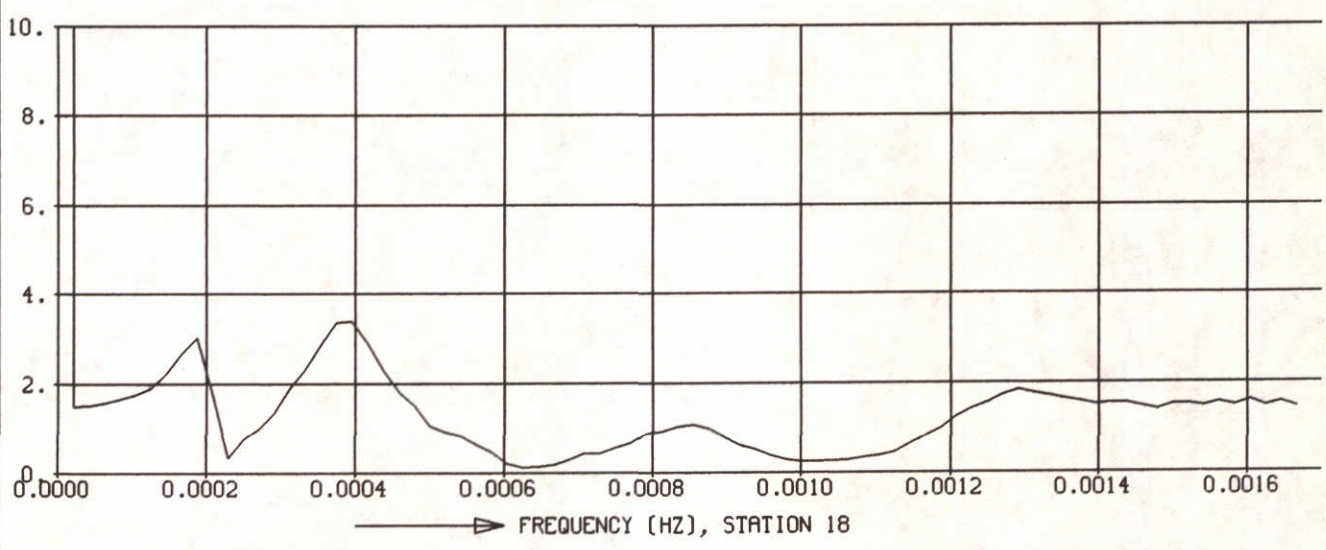
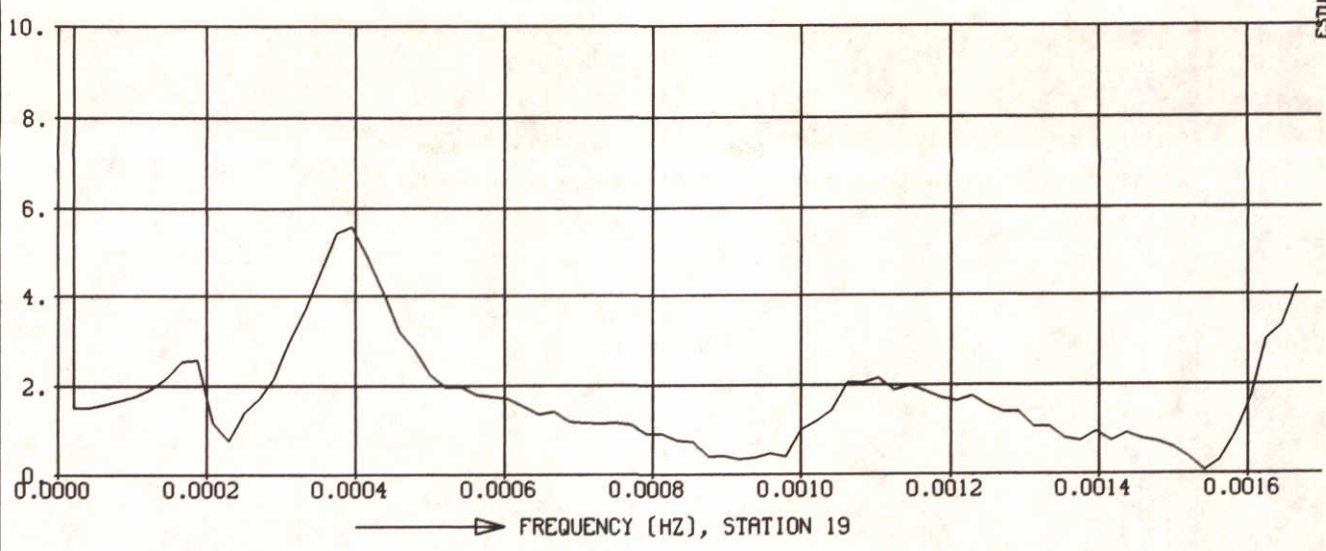
SEICHES EUROPOORT
SPECTRA VAN STATIONS 7, 11, 12 IN MM

07/01/91

OPC - od7

DELFT HYDRAULICS

FIG. 34



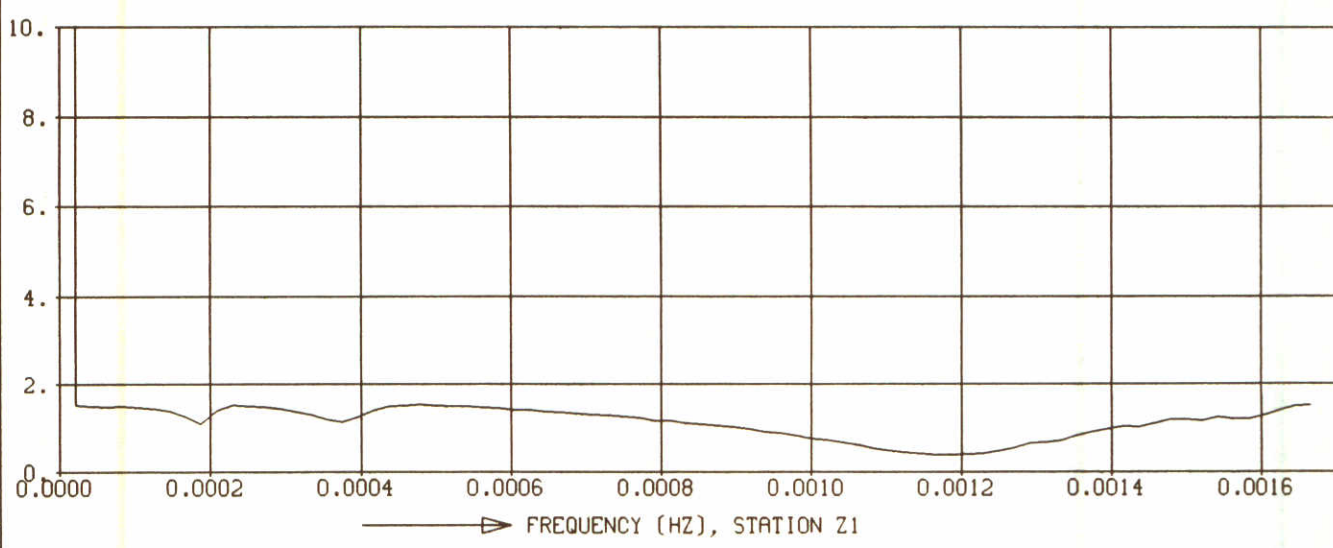
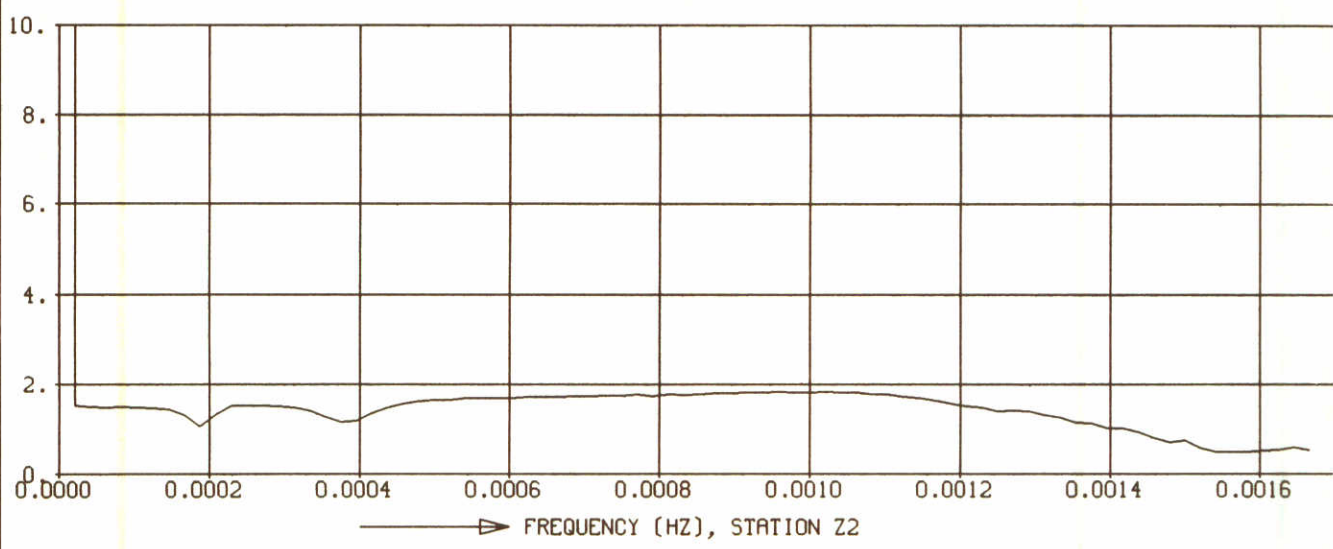
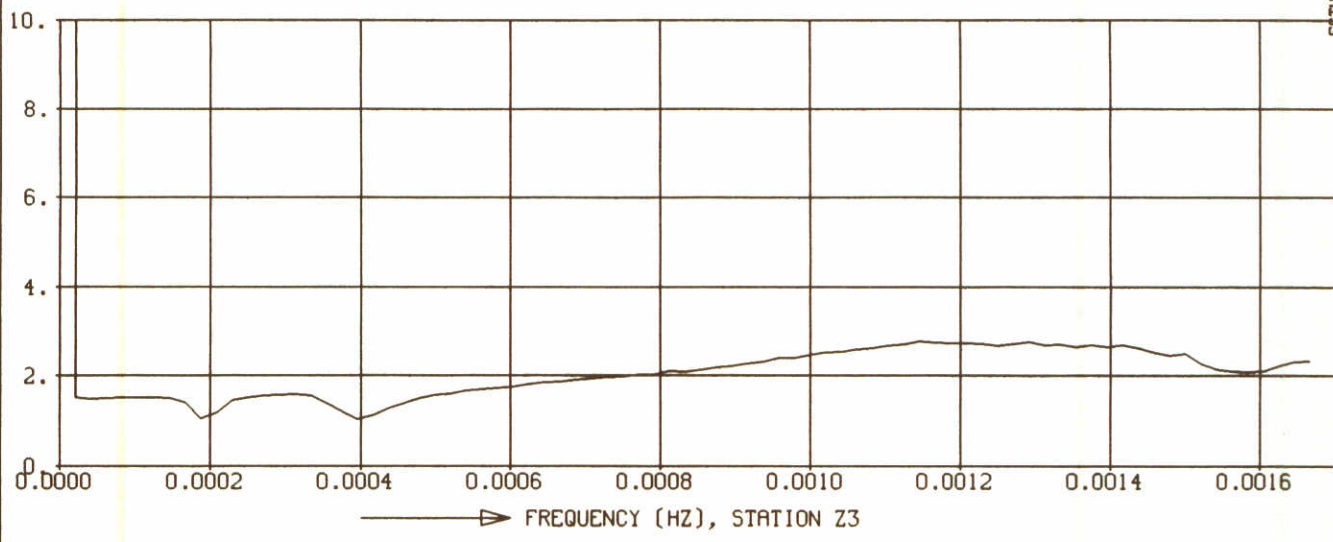
SEICHES EUROPOORT
SPECTRA VAN STATIONS 13, 18, 19 IN MM

07/01/91

OPC - od7

DELFT HYDRAULICS

FIG. 35



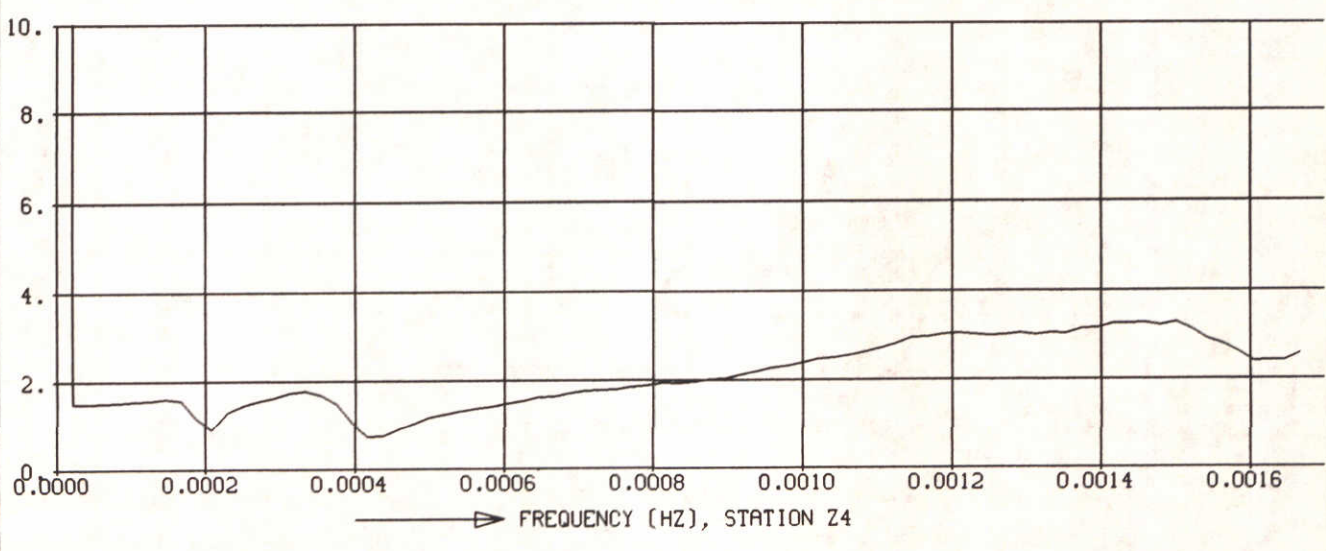
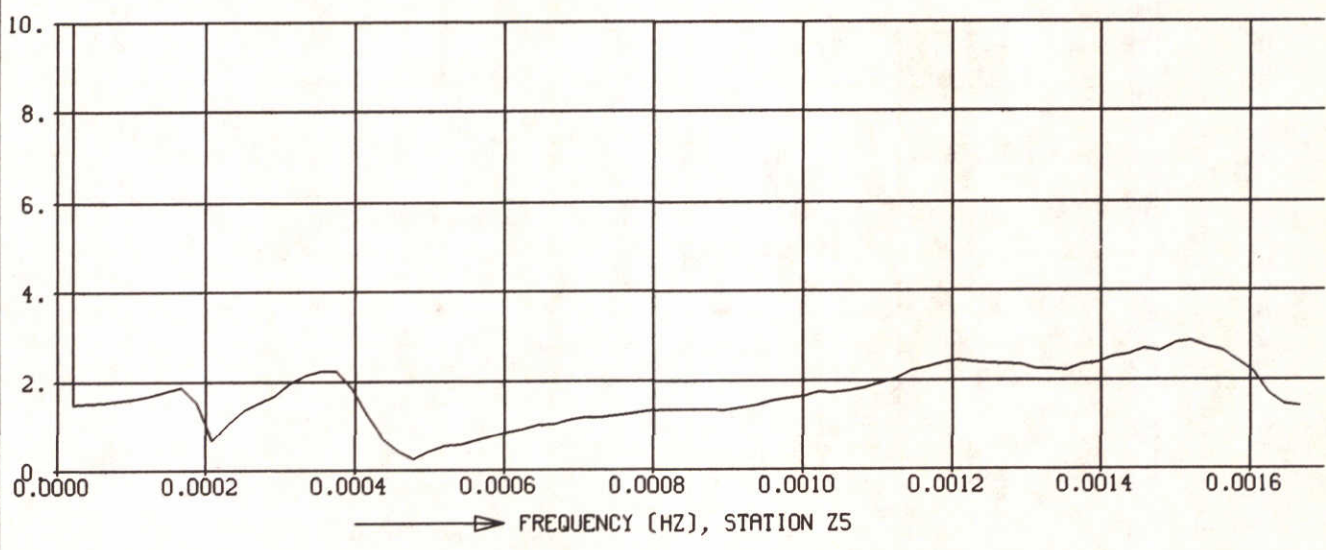
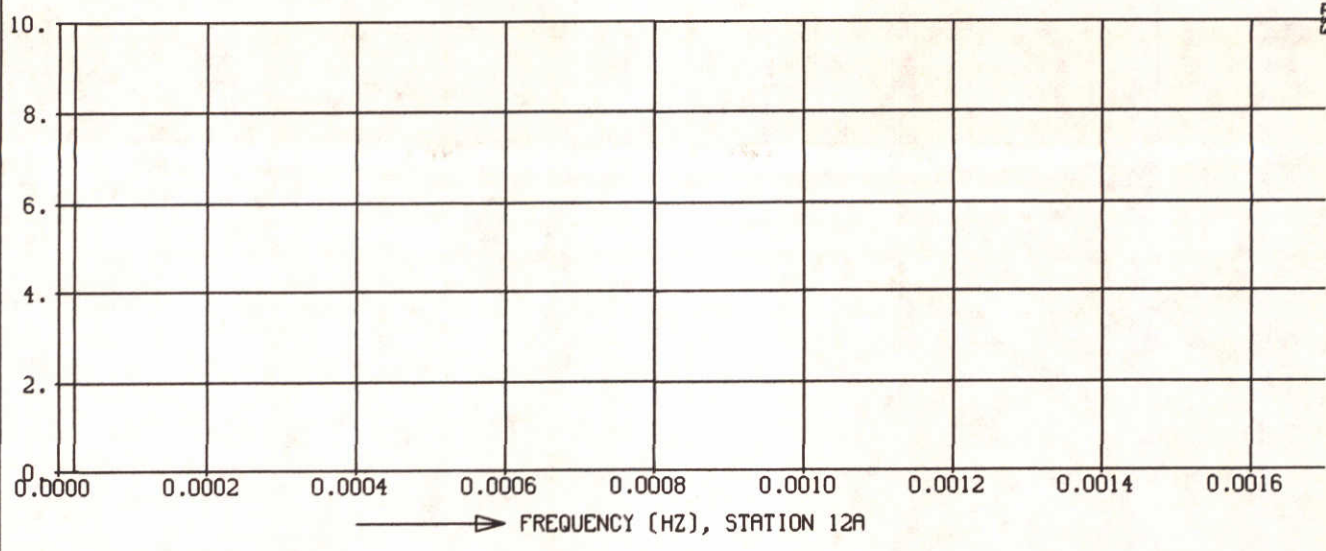
SEICHES EUROPOORT
SPECTRA VAN STATIONS Z1, Z2, Z3 IN MM

07/01/91

OPC - od7

DELFT HYDRAULICS

FIG. 36



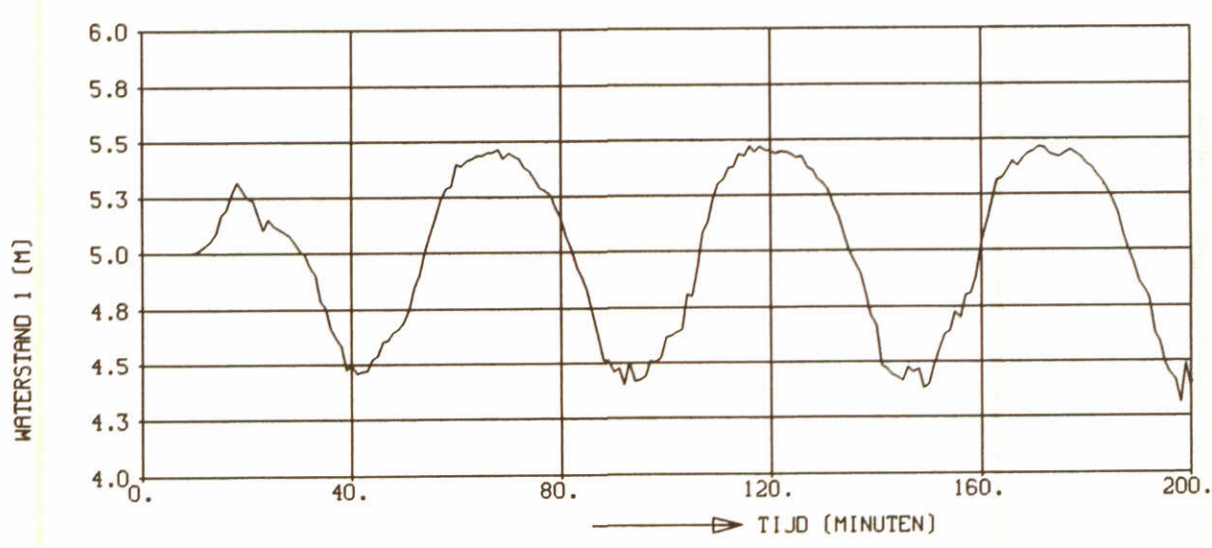
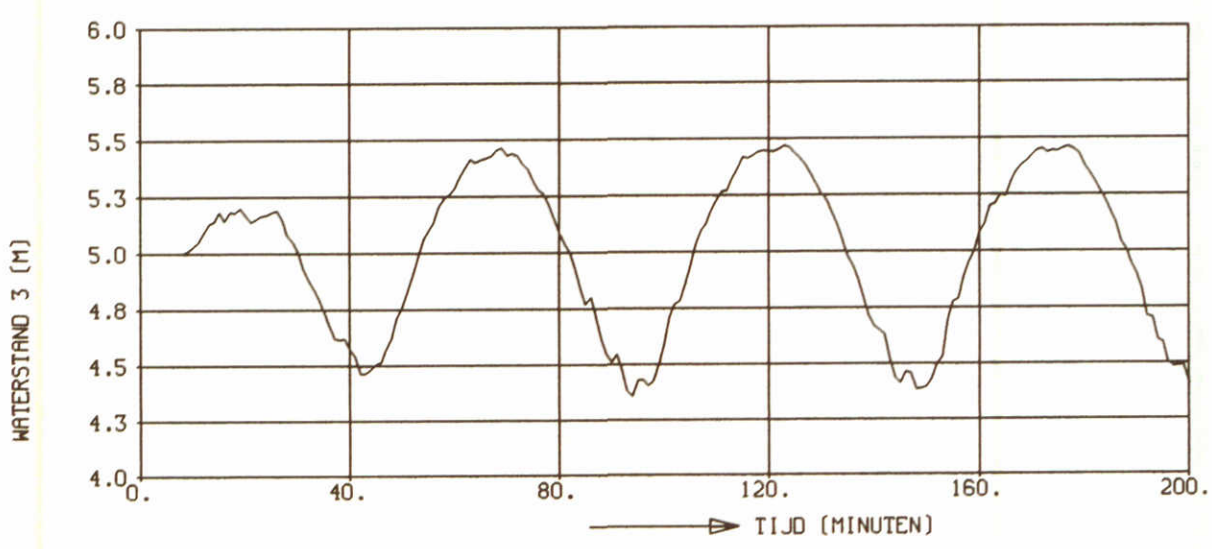
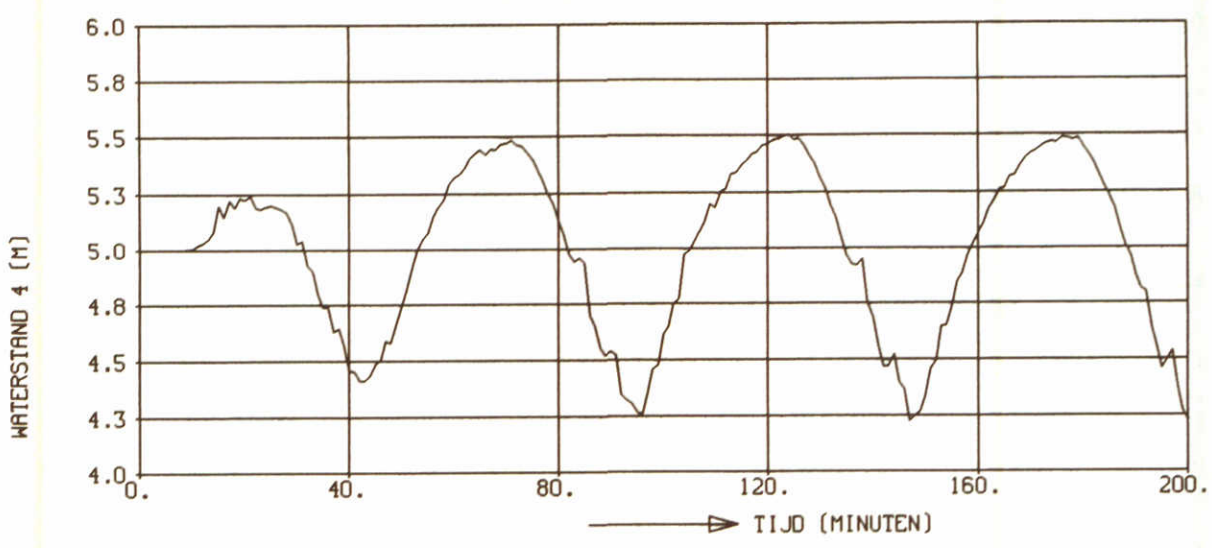
SEICHES EUROPOORT
SPECTRA VAN STATIONS Z4, Z5, 12A IN MM

07/01/91

OPC - od7

DELFT HYDRAULICS

FIG. 37



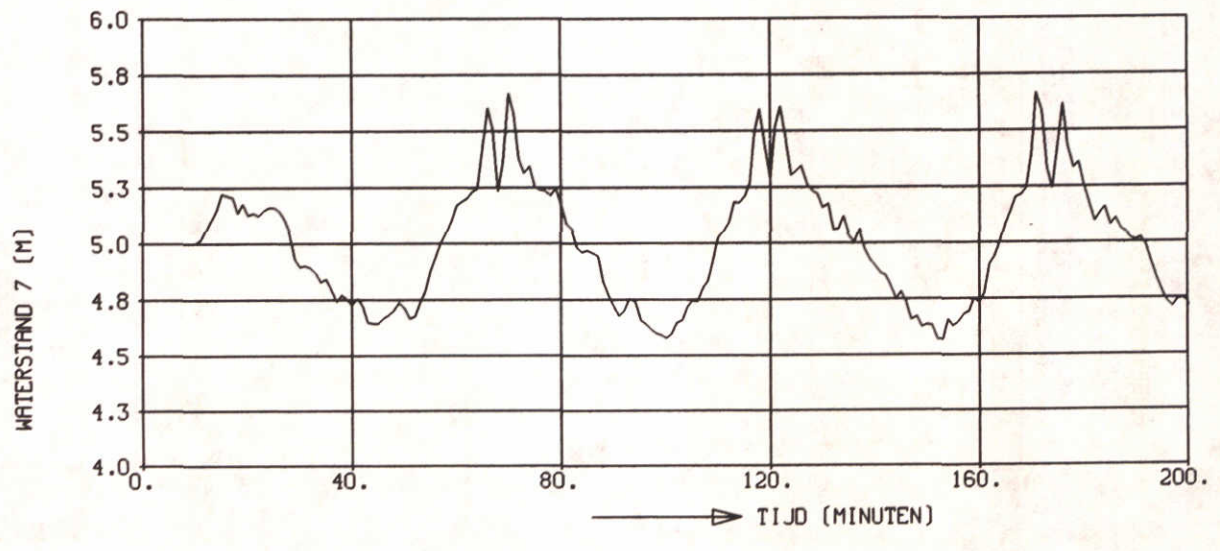
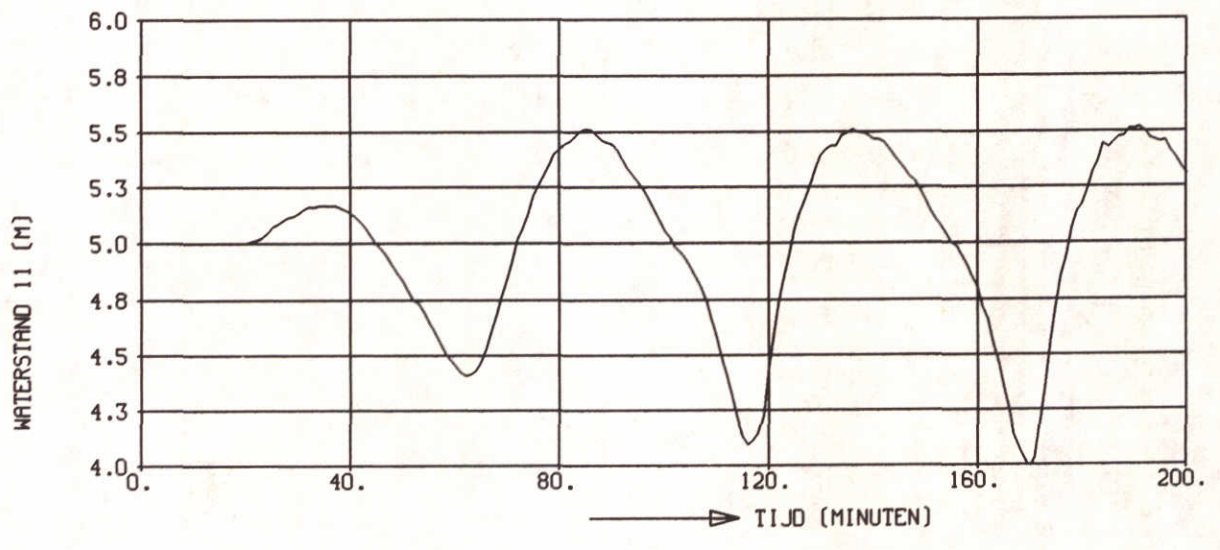
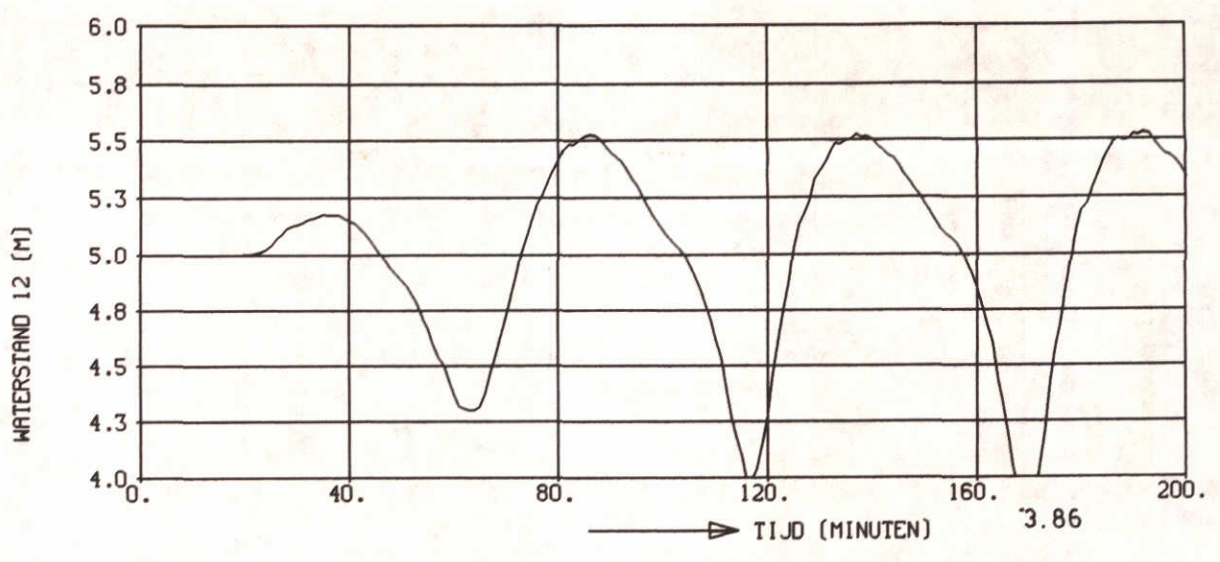
SEICHES EUROPOORT
TIJDREKSEN VAN WATERSTANDEN 1, 3, 4

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG. 38



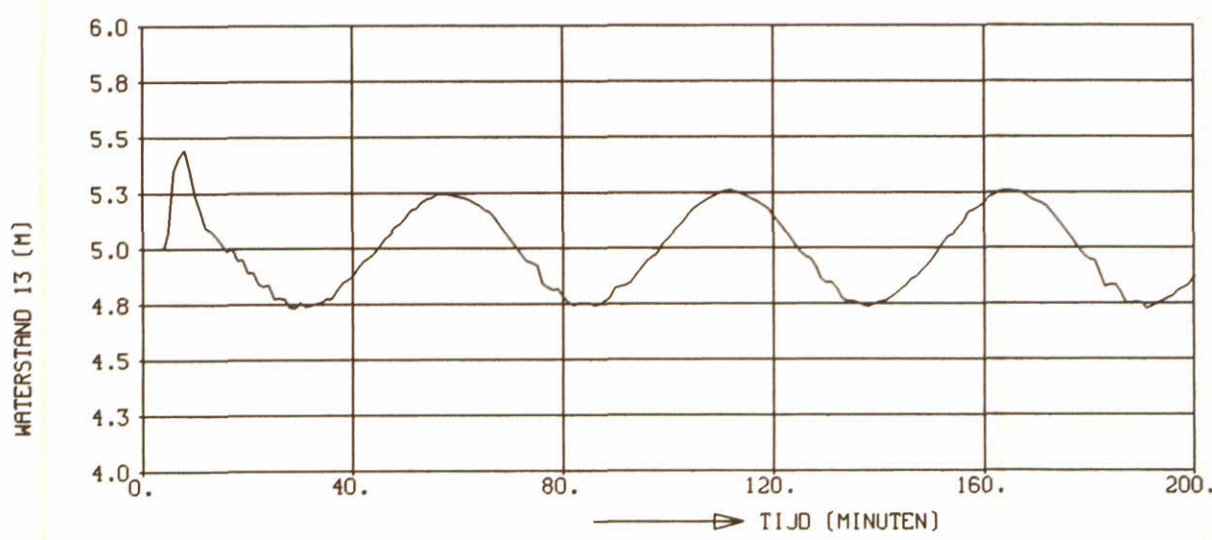
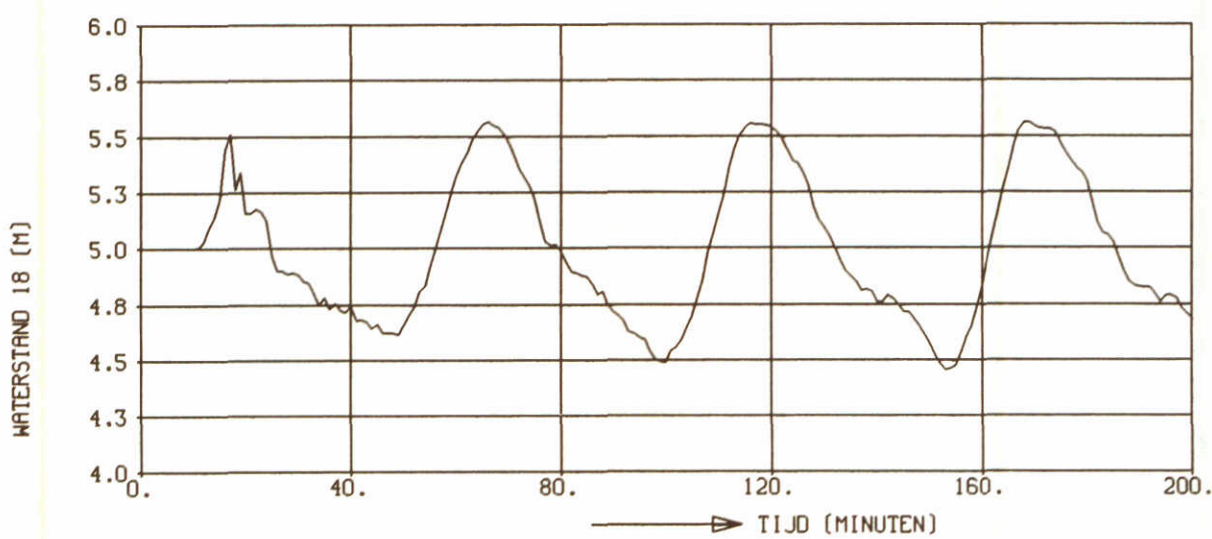
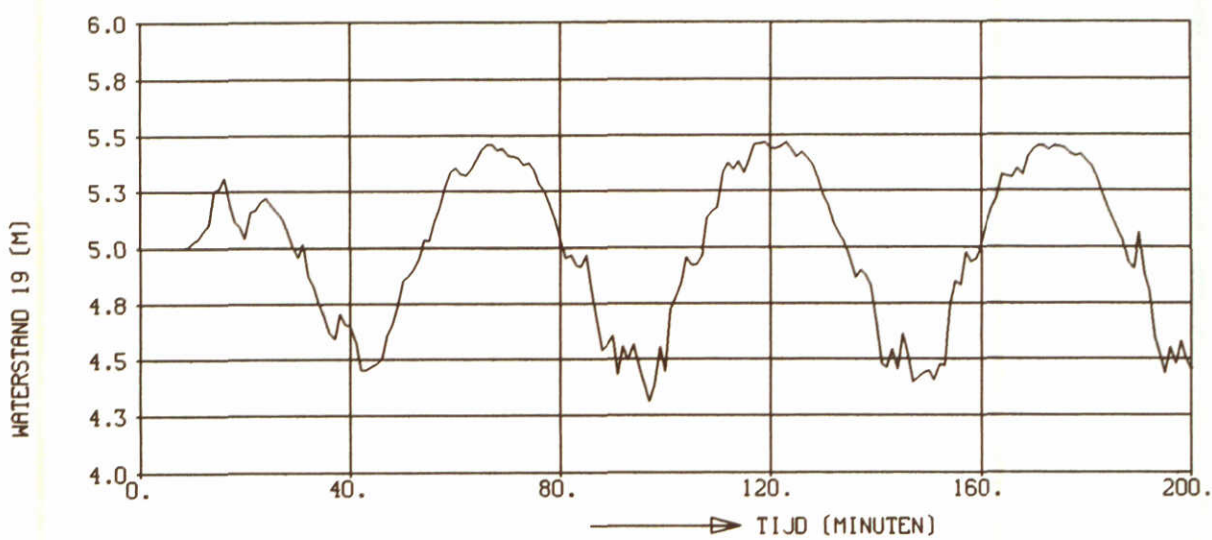
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/15/91

OPC = dm8

DELFT HYDRAULICS

FIG. 39



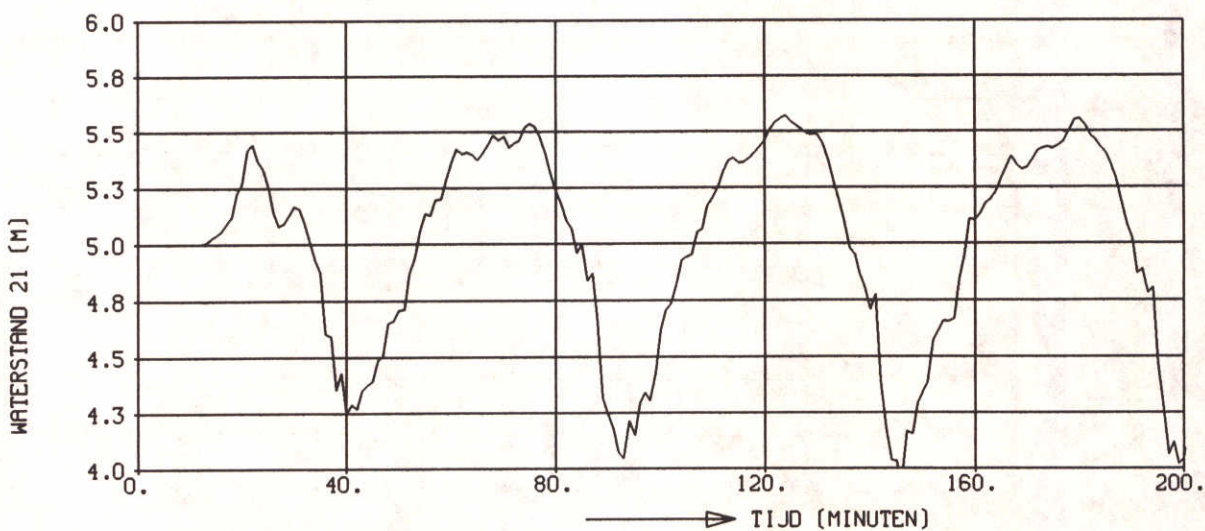
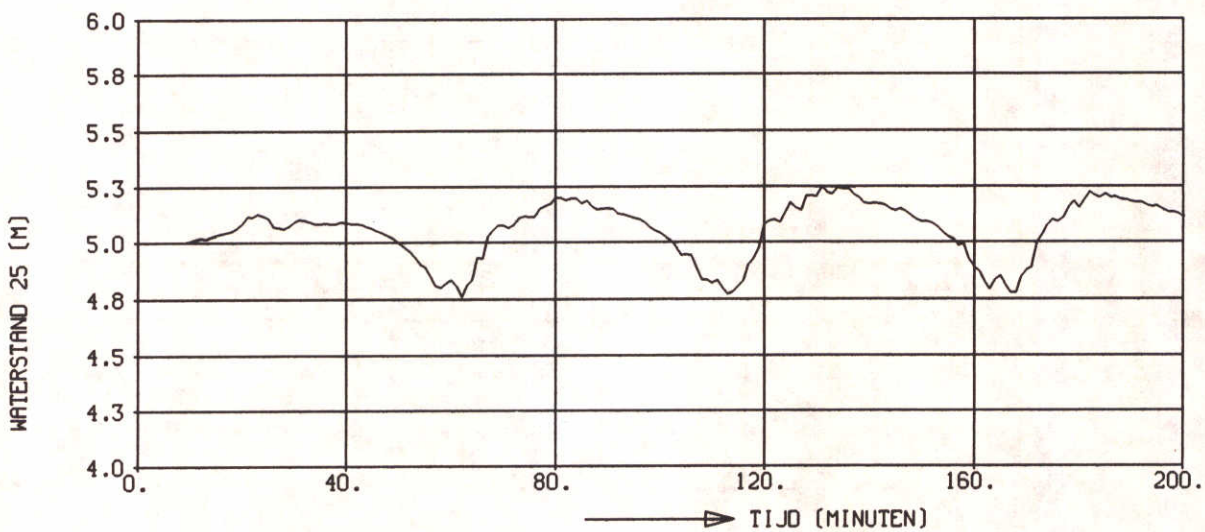
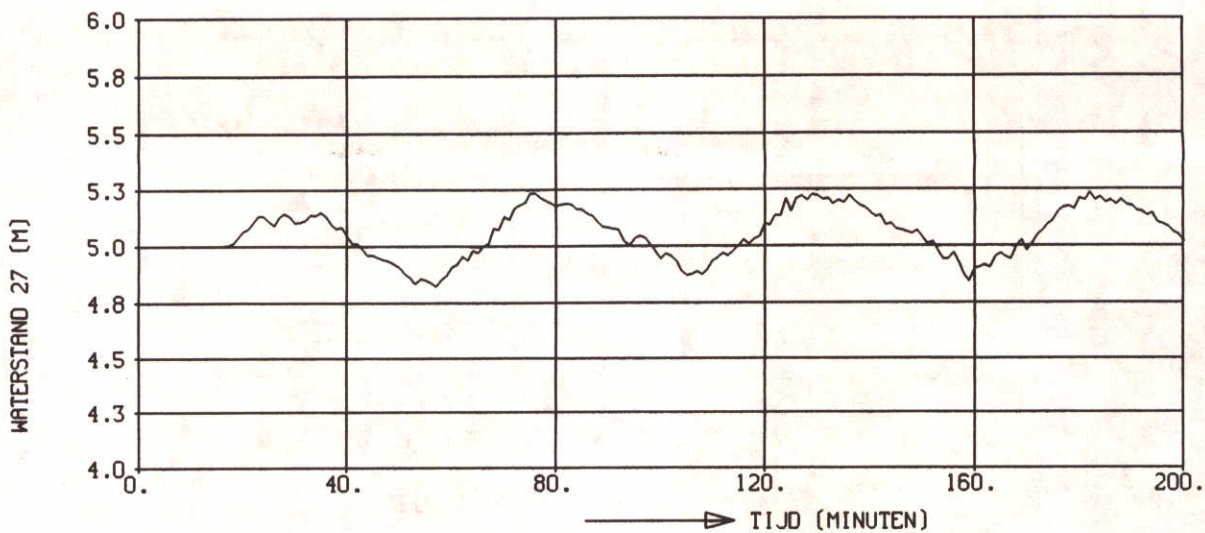
SEICHES EUROPOORT
TIJDREKSEN VAN WATERSTANDEN 13, 18, 19

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG.40



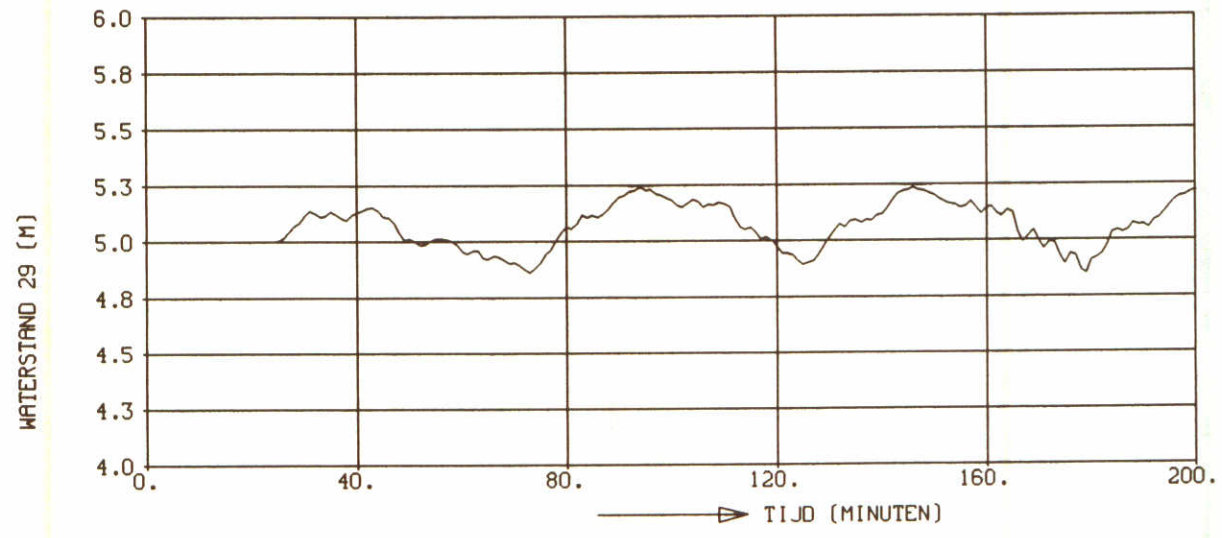
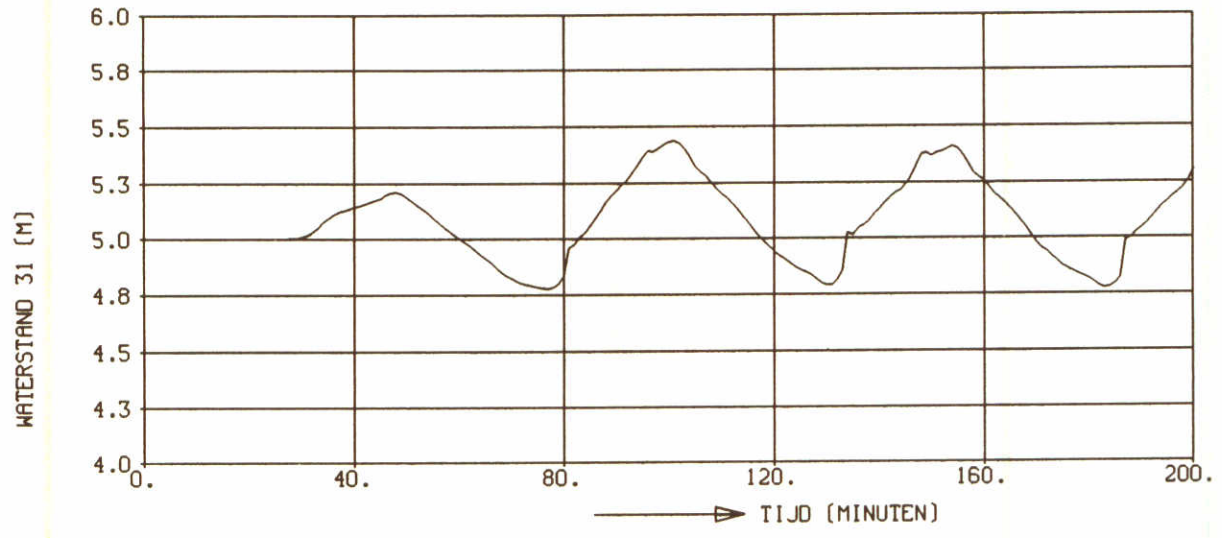
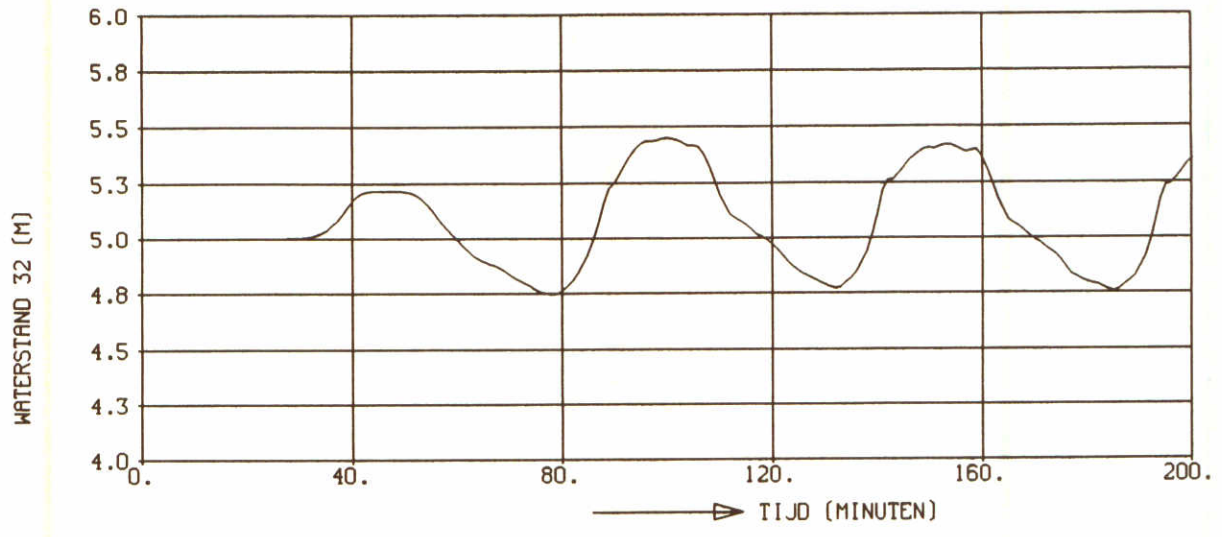
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 21, 25, 27

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG.41



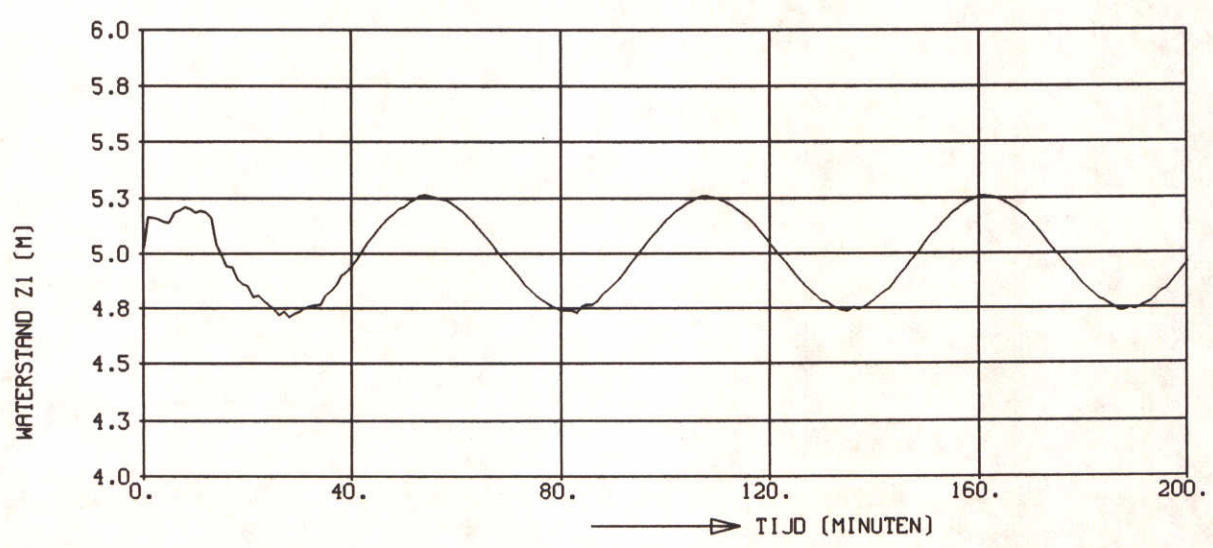
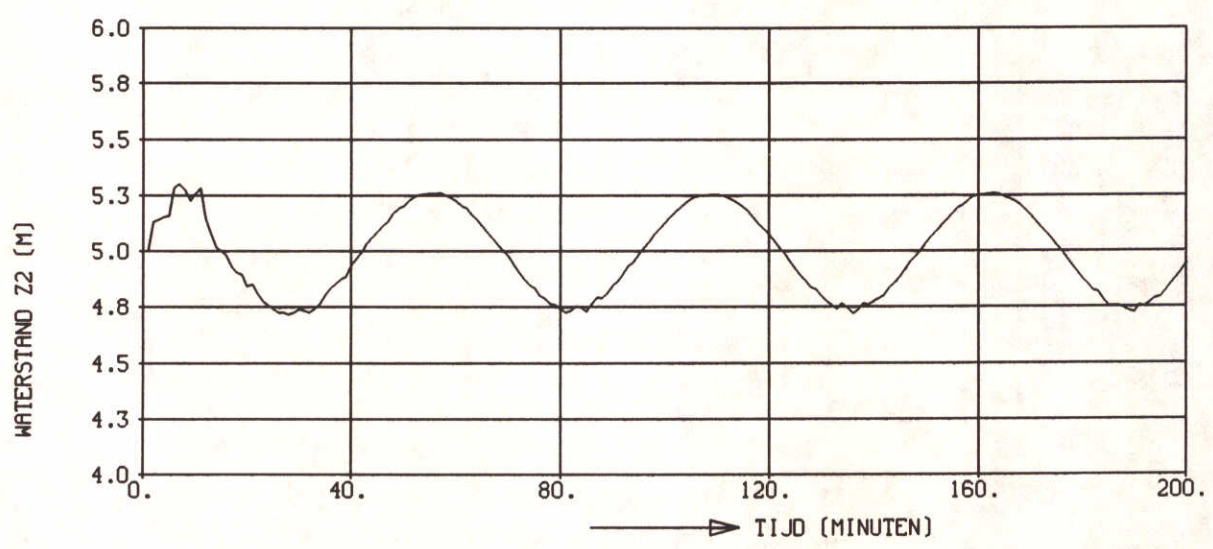
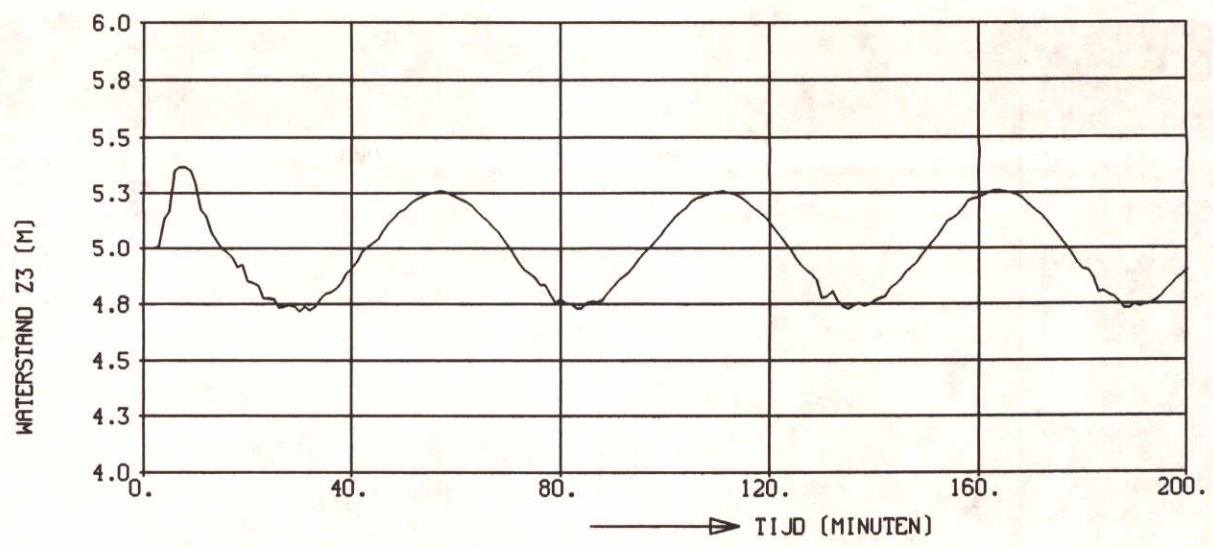
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 29, 31, 32

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG. 42



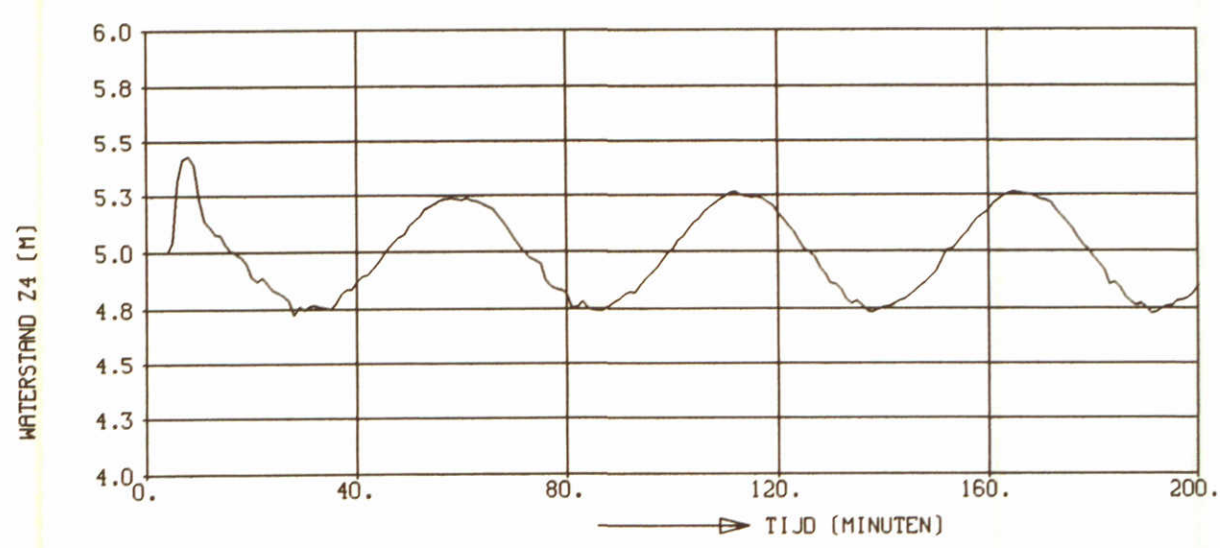
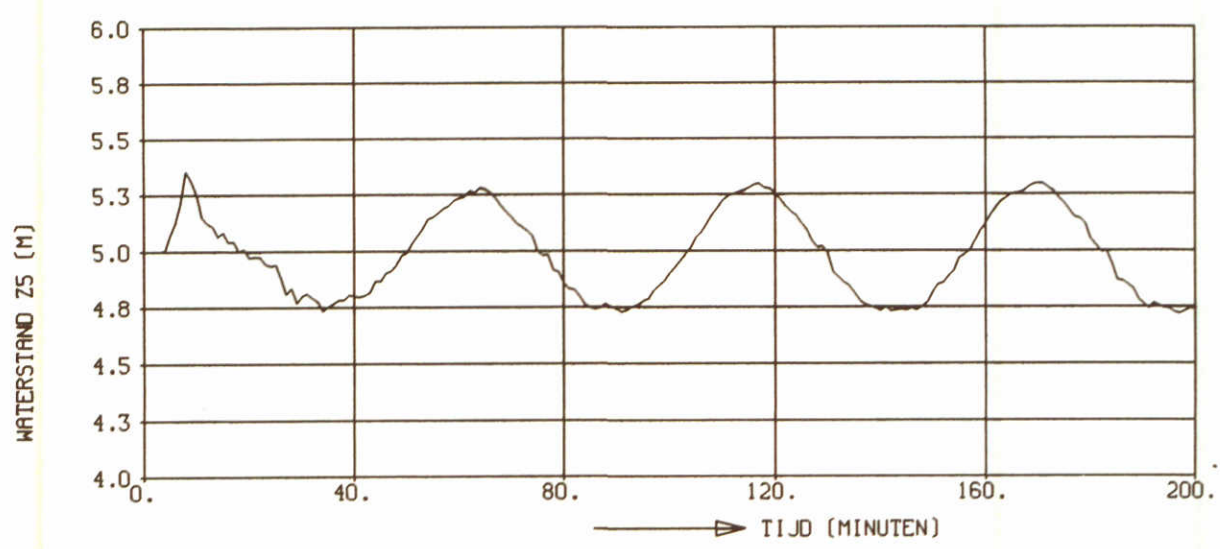
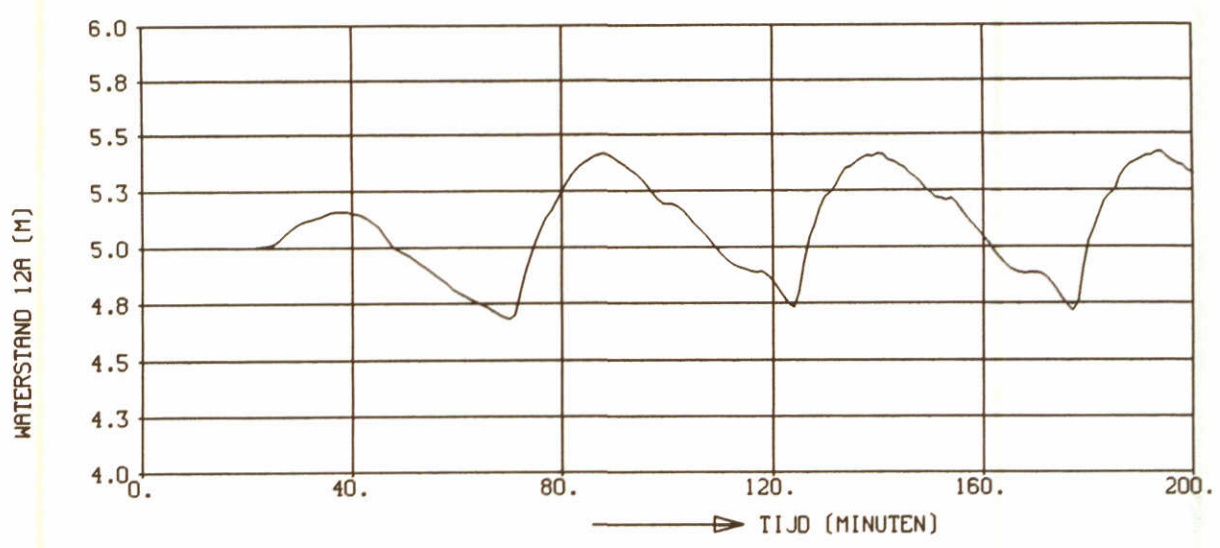
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN Z1, Z2, Z3

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG.43



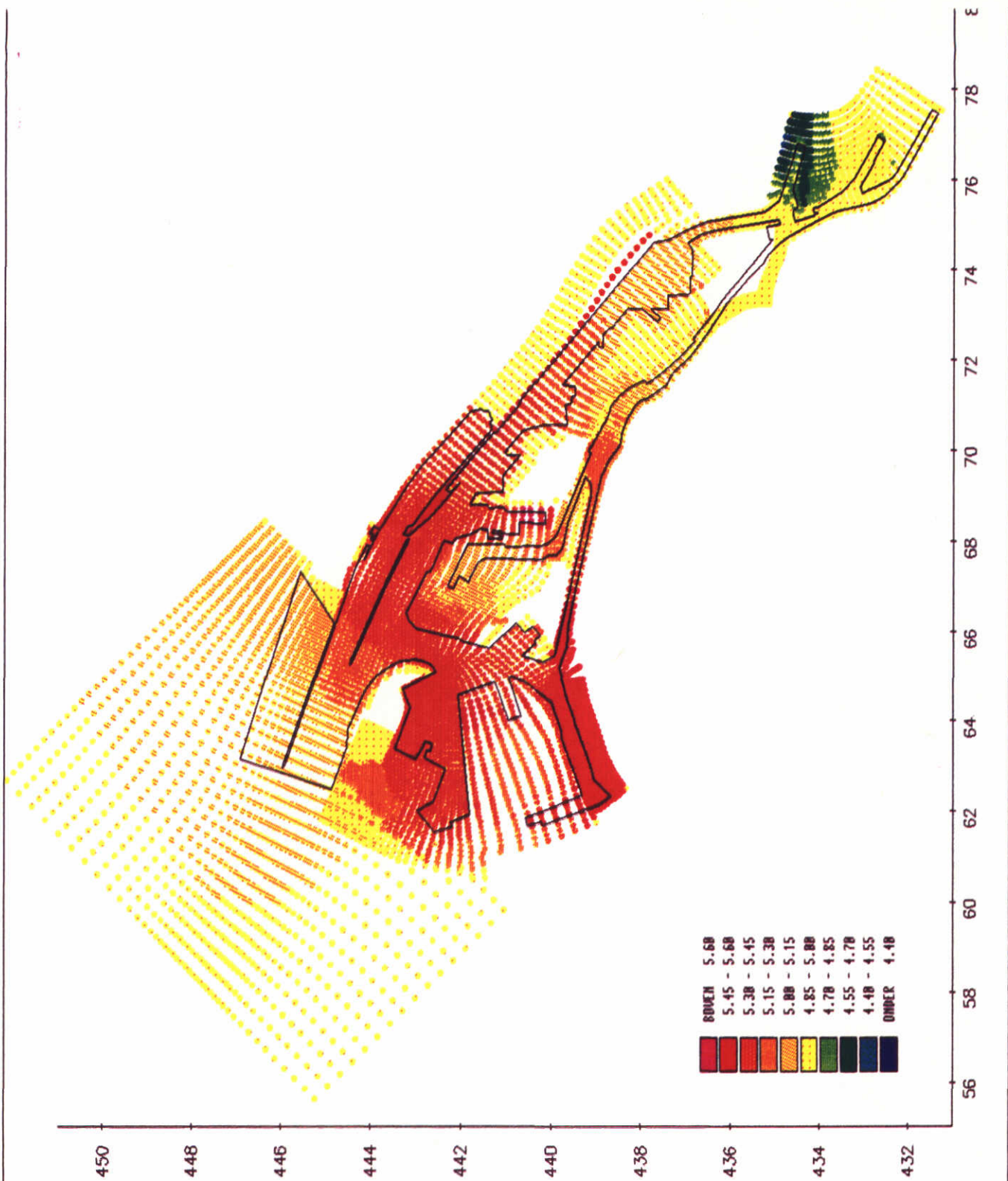
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN Z4, Z5, 12A

06/15/91

OPC - dm8

DELFT HYDRAULICS

FIG.44



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

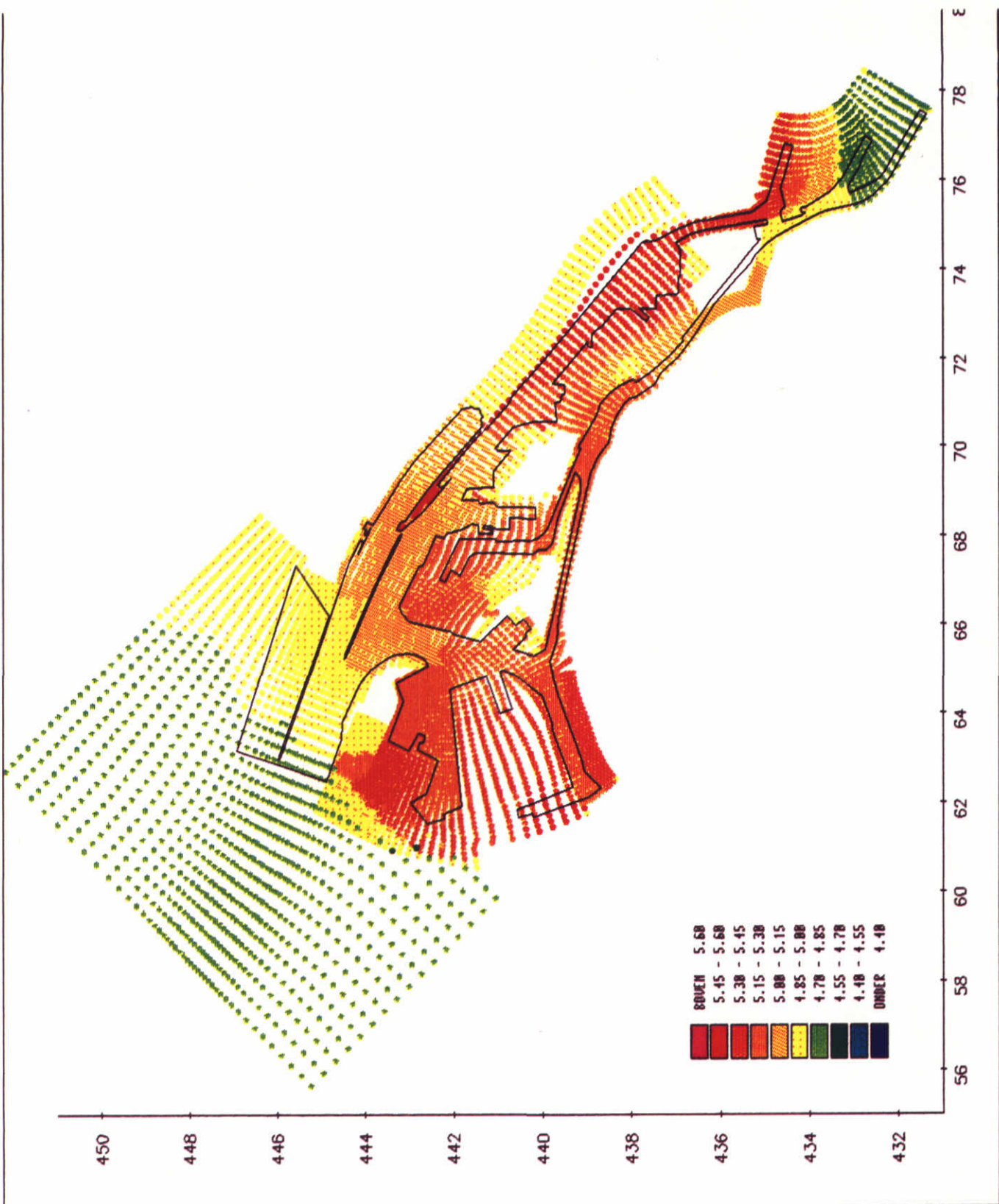
veld 1

DPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 45



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

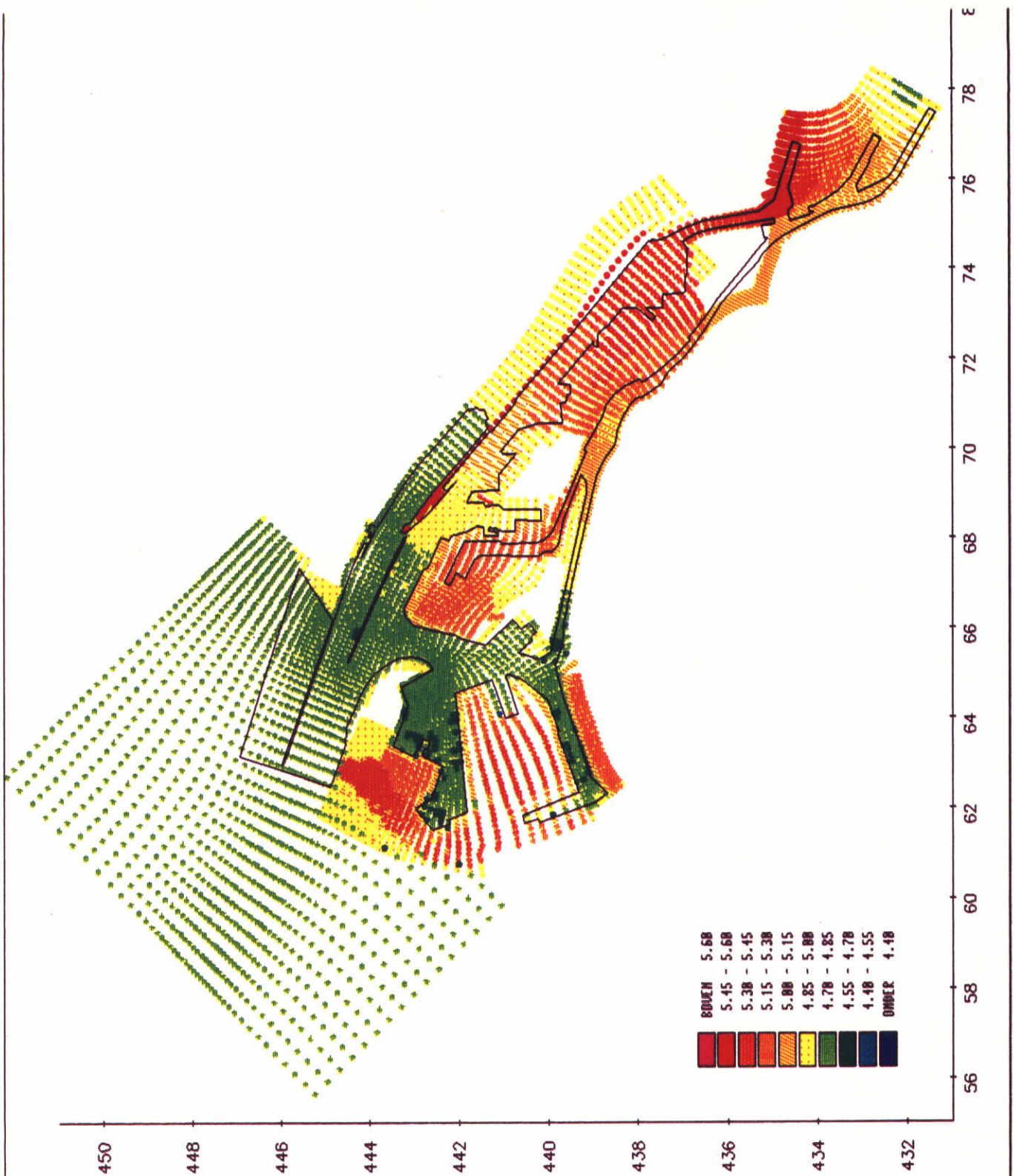
veld 2

OPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 46



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

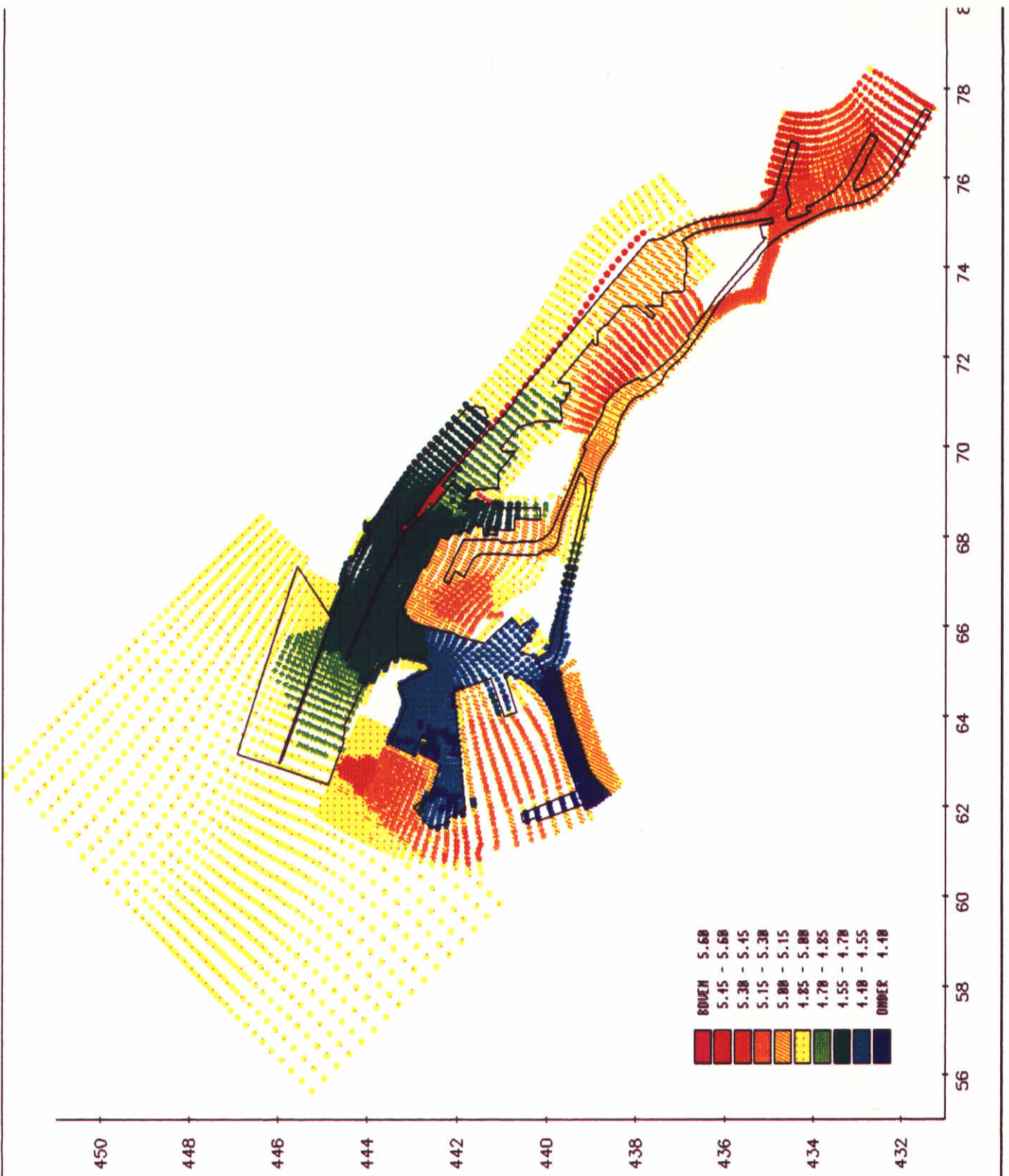
veld 3

OPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 47



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

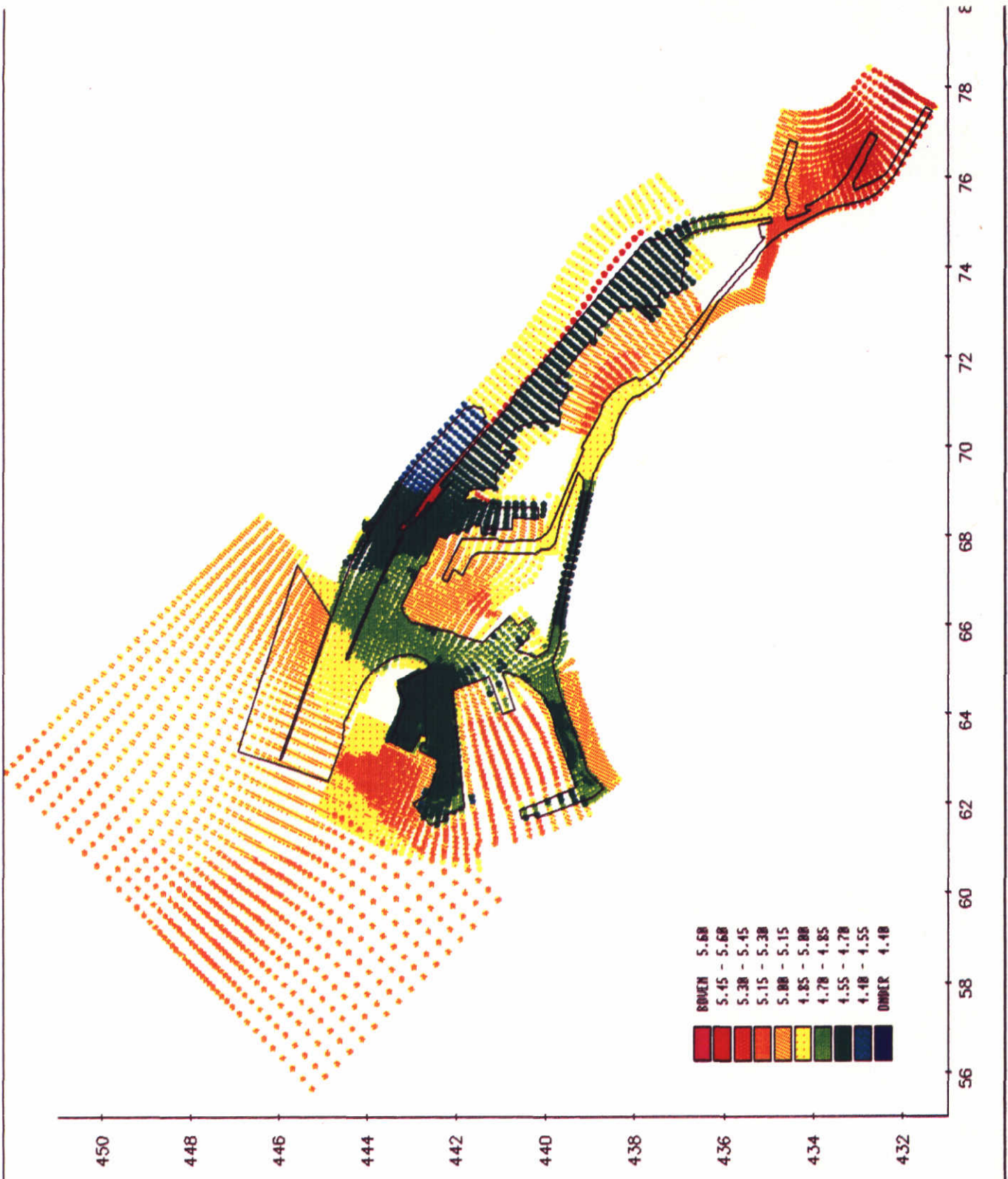
veld 4

OPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 48



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

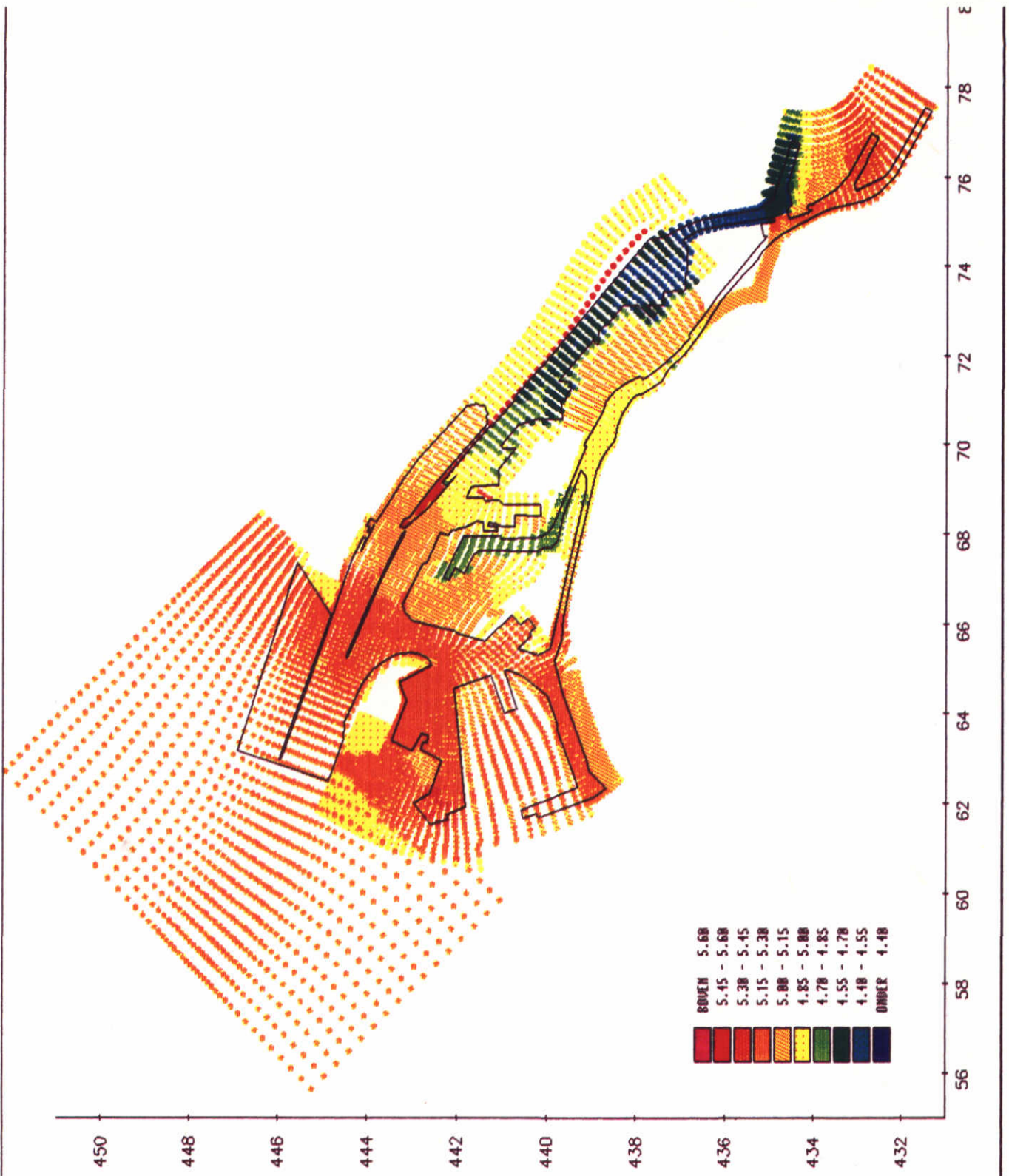
veld 5

OPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 49



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

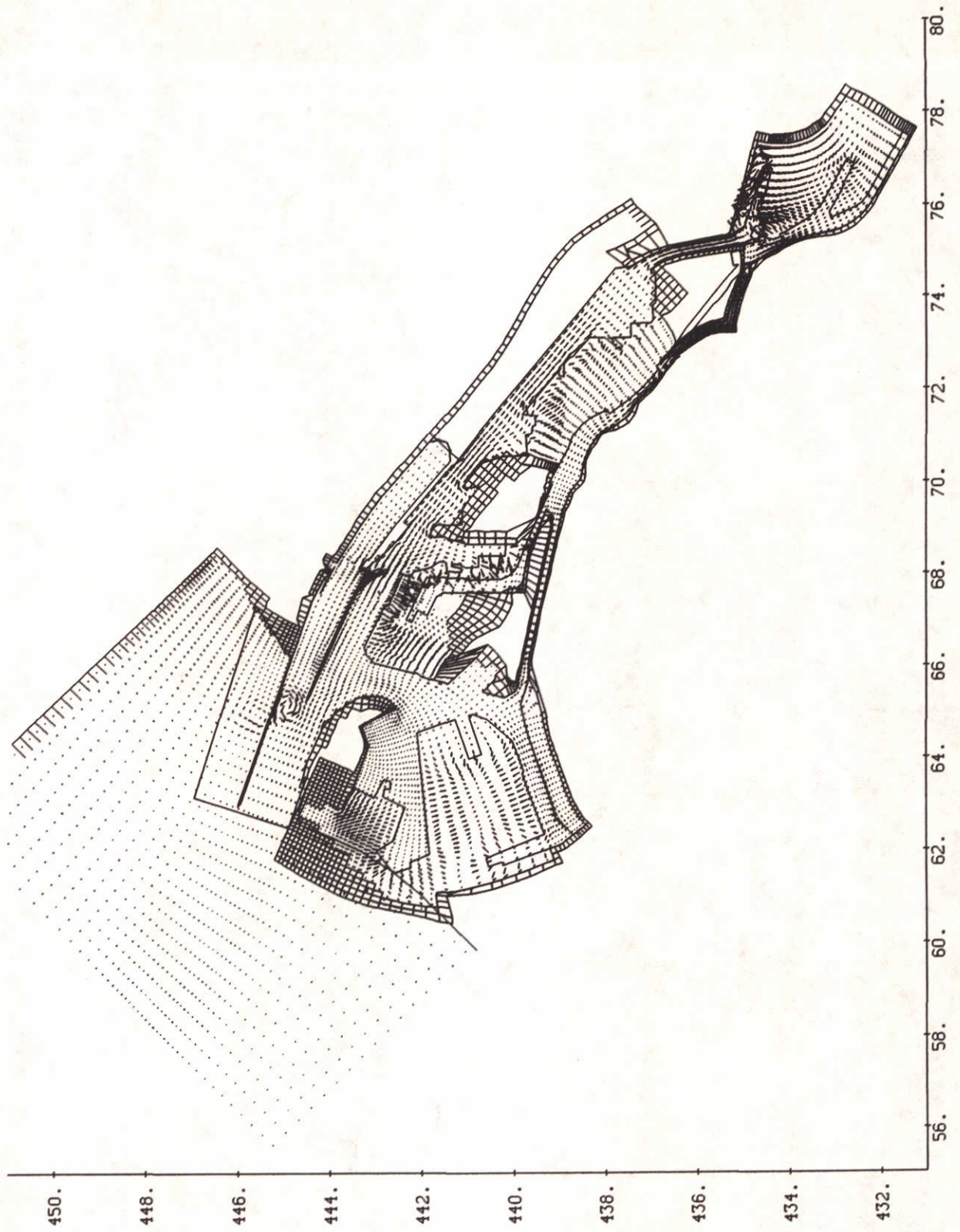
veld 6

OPC = dm8

DELFT HYDRAULICS

Z-434

FIG. 50



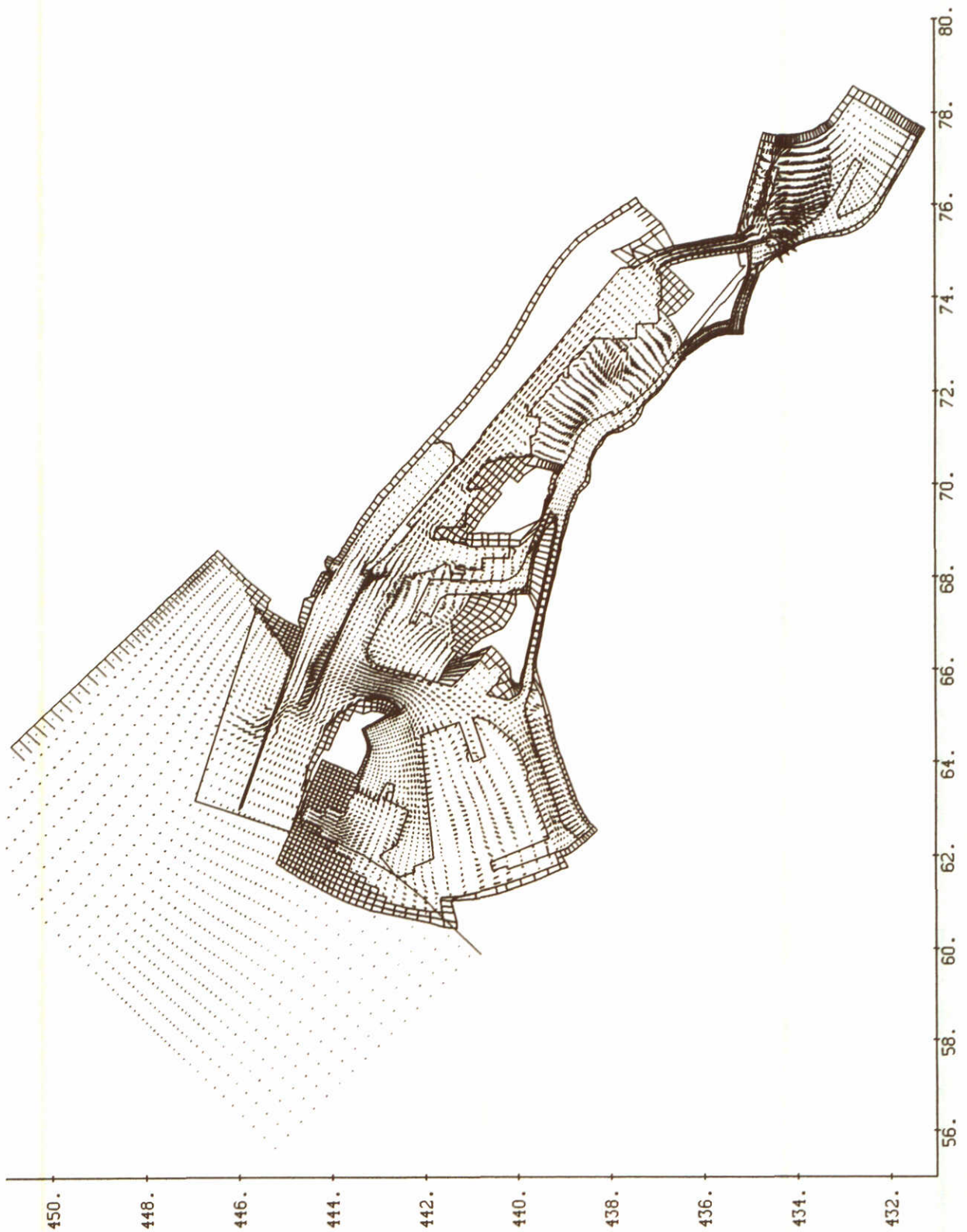
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91 veld 1

OPC - dm8

Z-434

FIG. 51



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

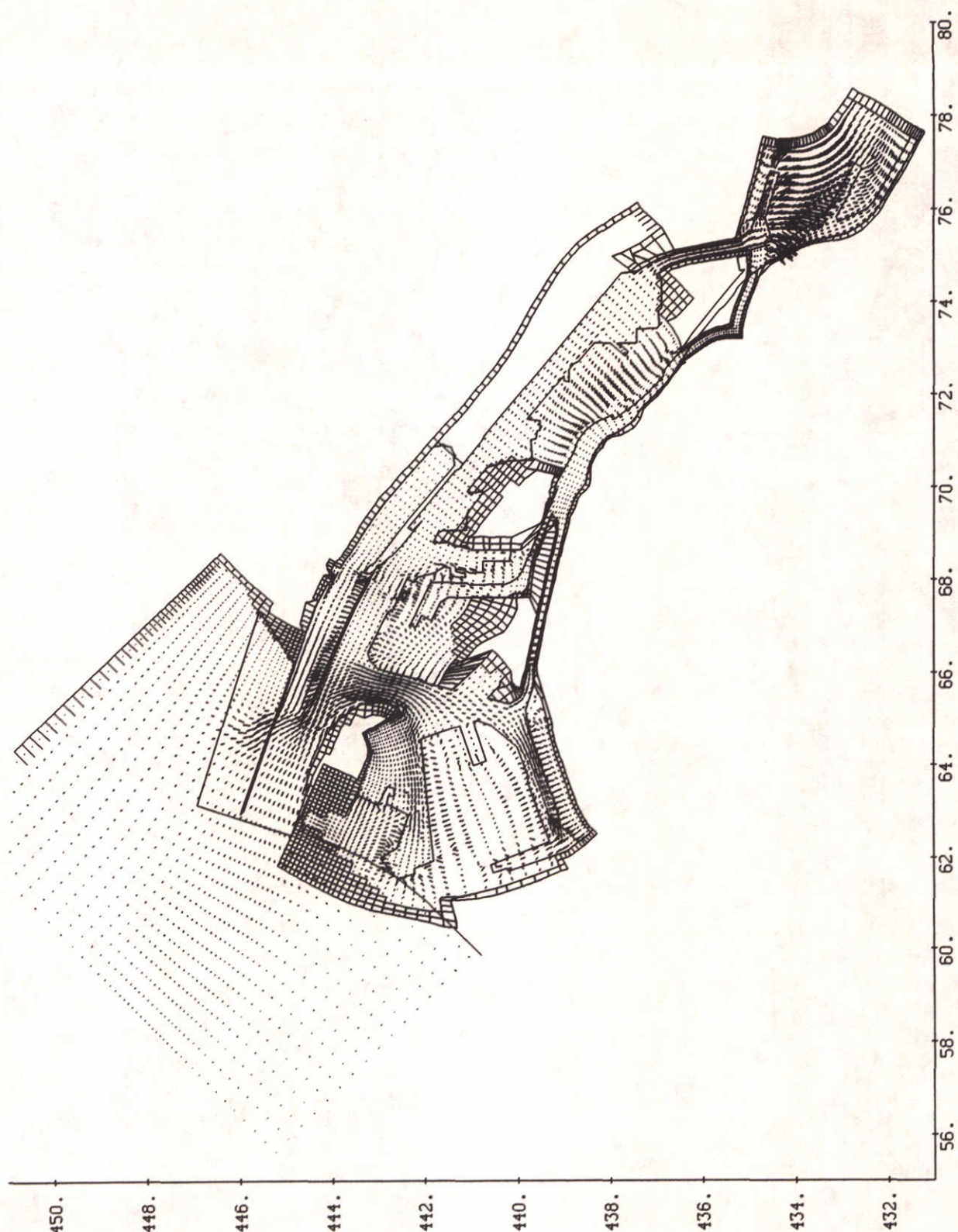
06/15/91 veld 2

OPC - dm8

DELFT HYDRAULICS

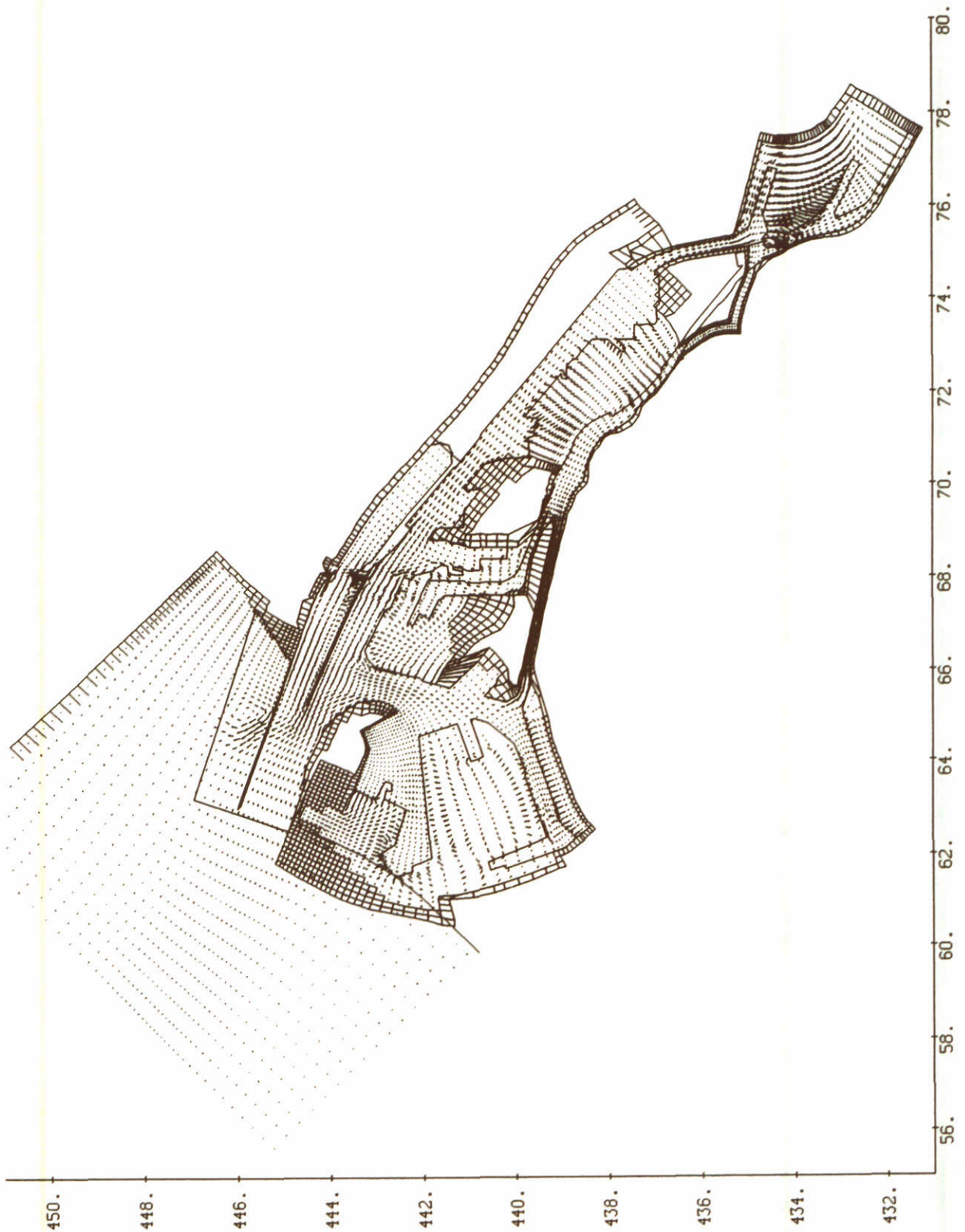
Z-434

FIG. 52



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91	veld 3
OPC - dm8	
Z-434	FIG. 53



SEICHES EUROPOORT

VECTORVELD 1 CM = 4.0 M/S

DELFT HYDRAULICS

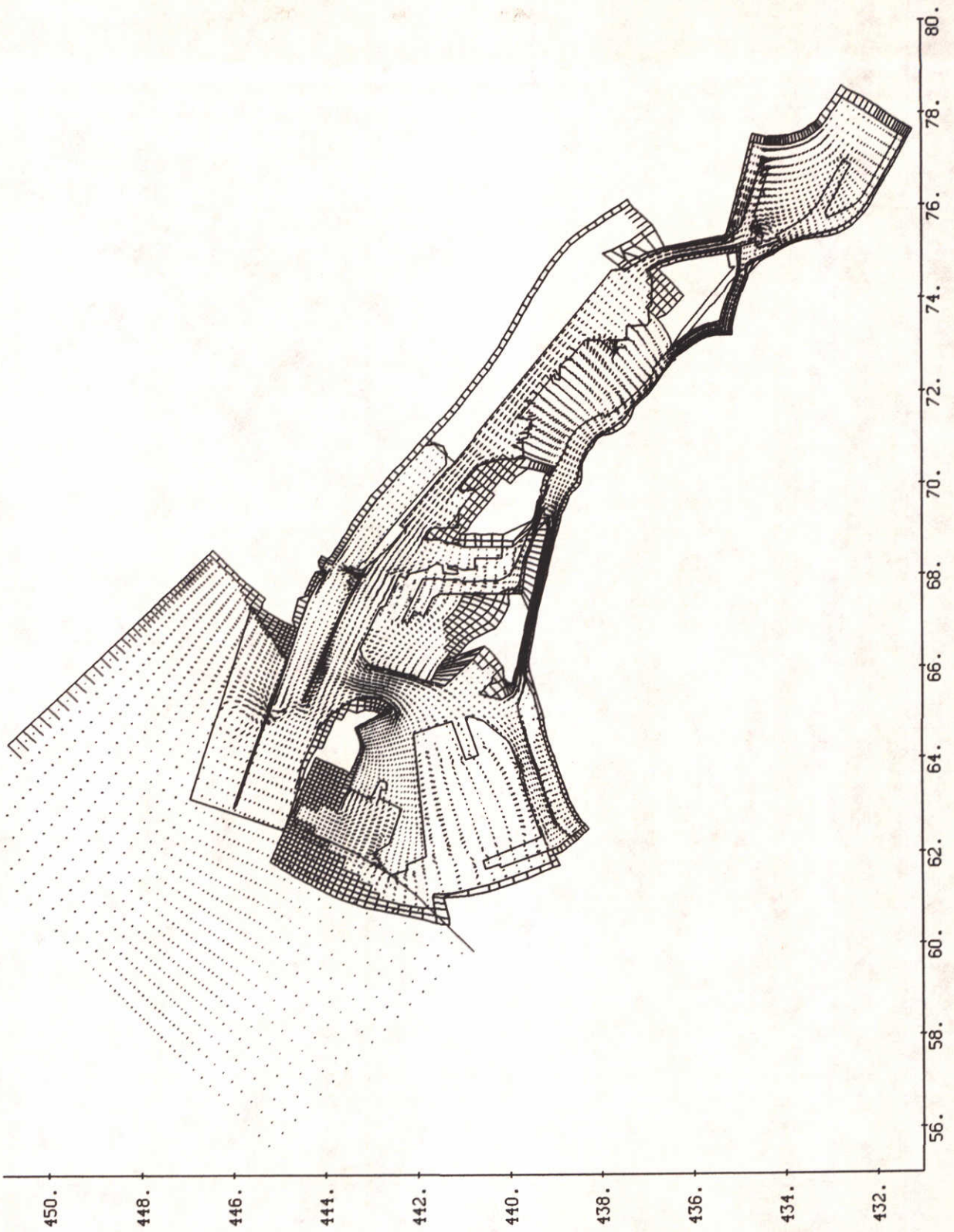
06/15/91

veld 4

OPC - dm8

Z-434

FIG. 54



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

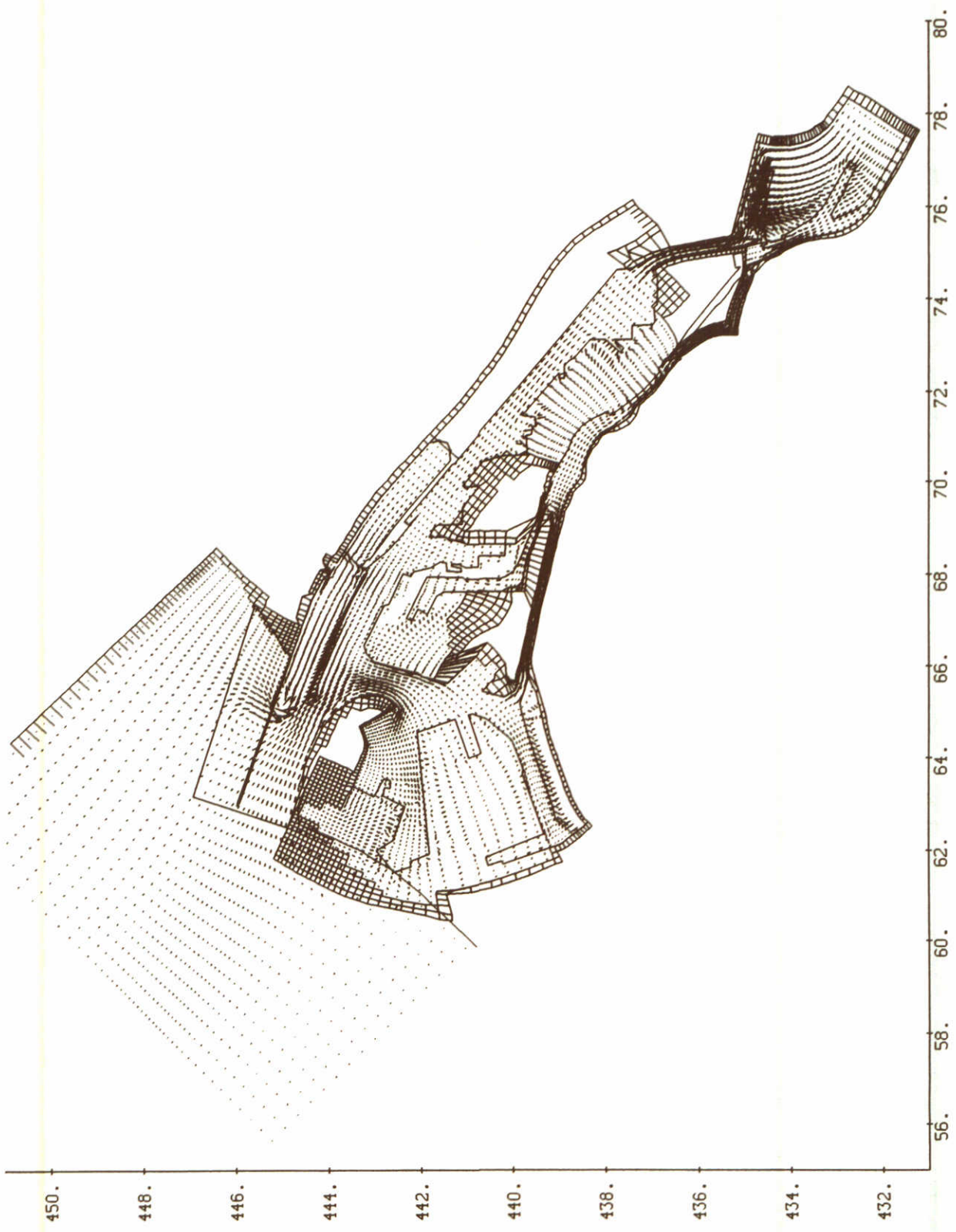
06/15/91 veld 5

OPC - dm8

DELFT HYDRAULICS

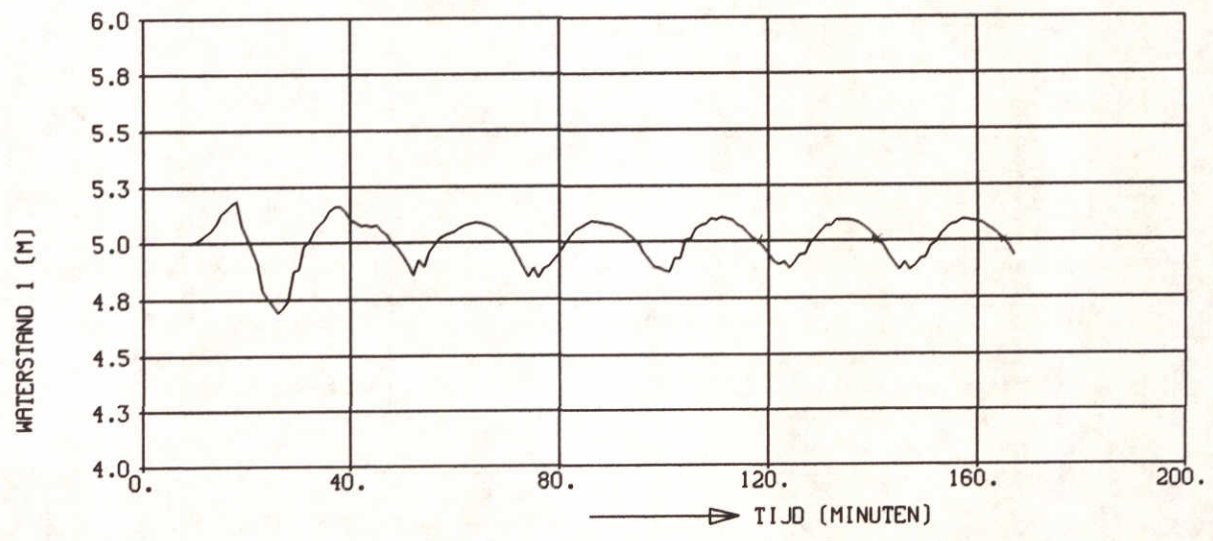
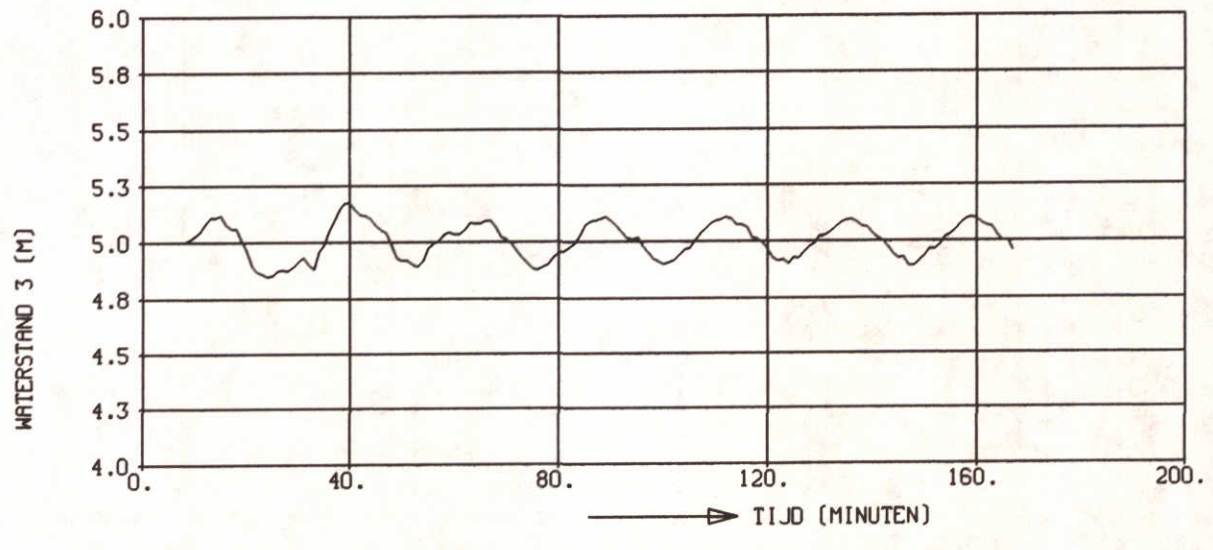
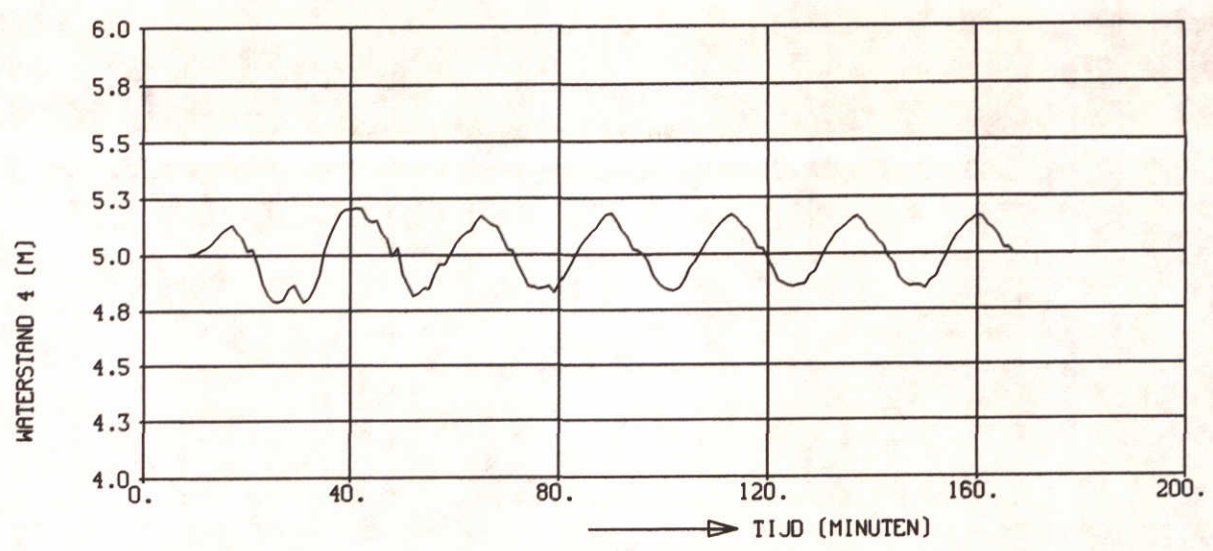
Z-434

FIG. 55



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91	velD 6
OPC - dm8	
Z-434	FIG. 56



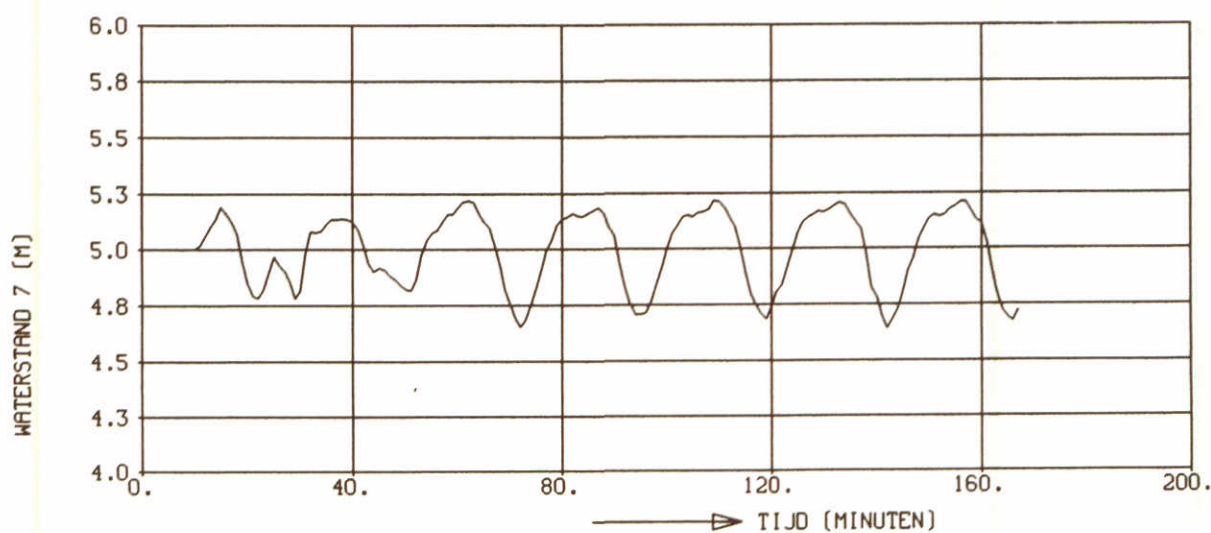
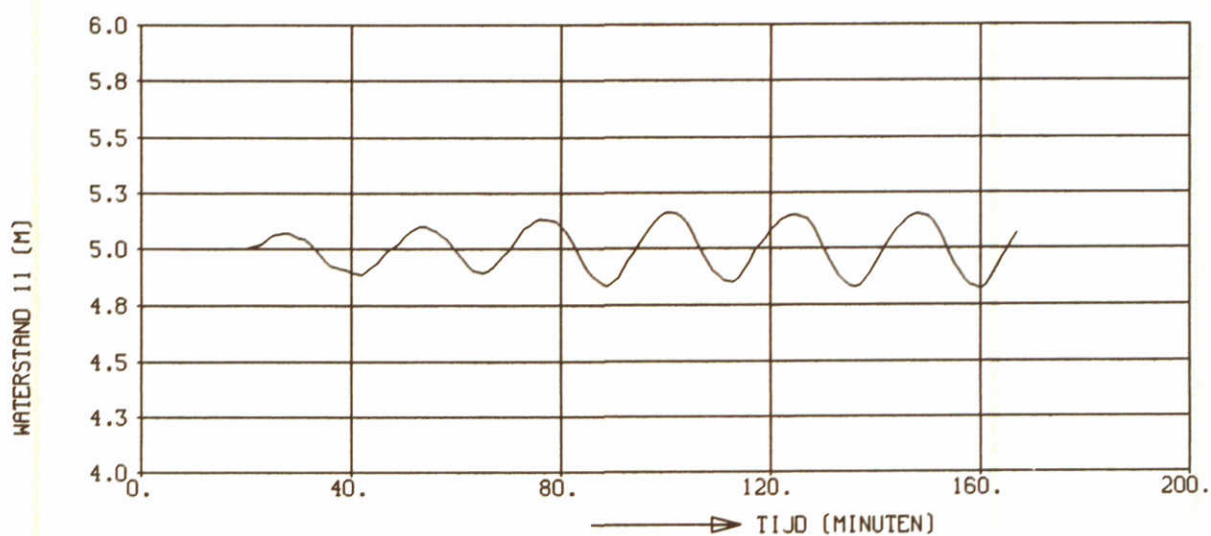
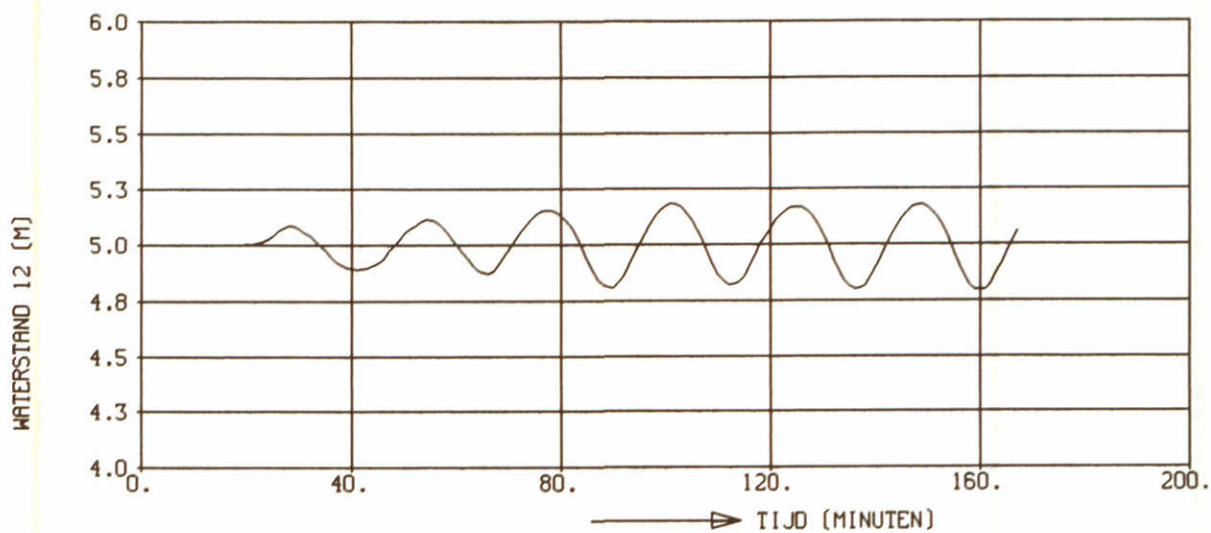
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4

06/15/91

OPC - dm7

DELFT HYDRAULICS

FIG. 57



SEICHES EUROPOORT

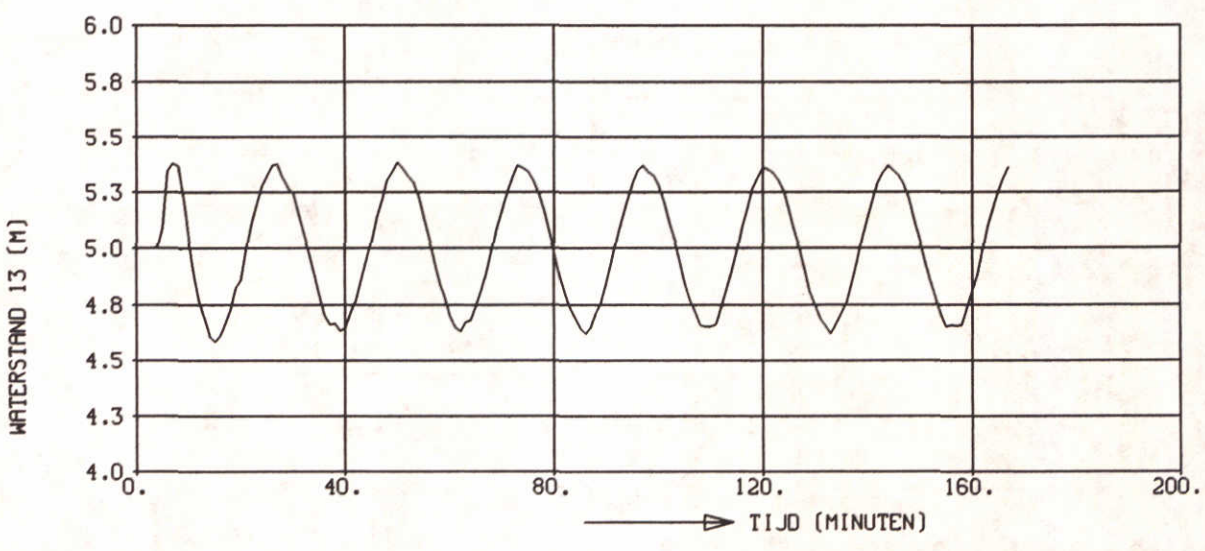
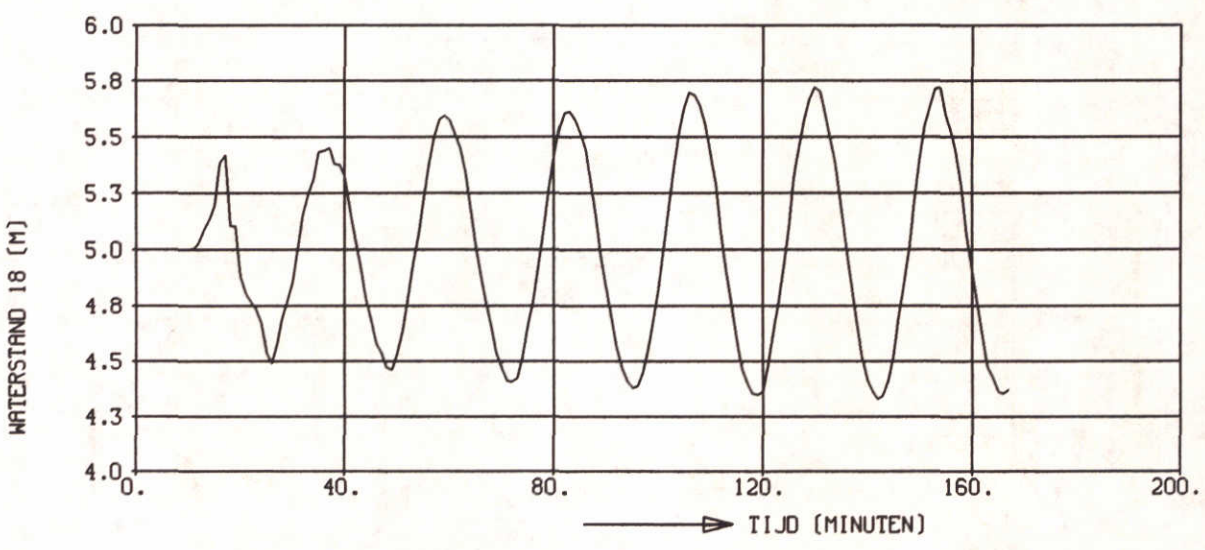
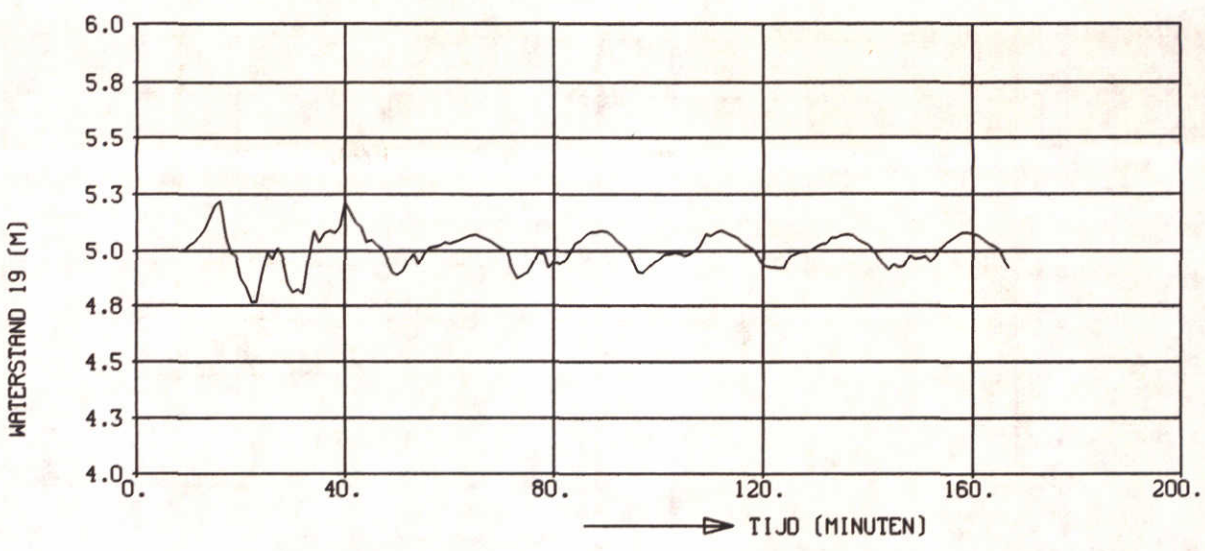
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/15/91

OPC - dm7

DELFT HYDRAULICS

FIG.58



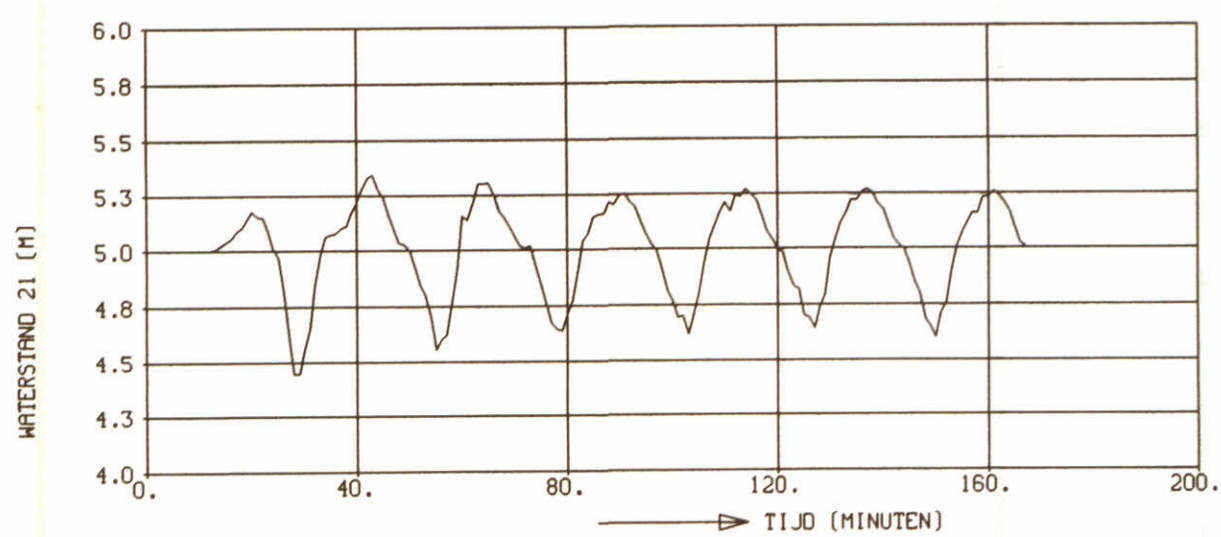
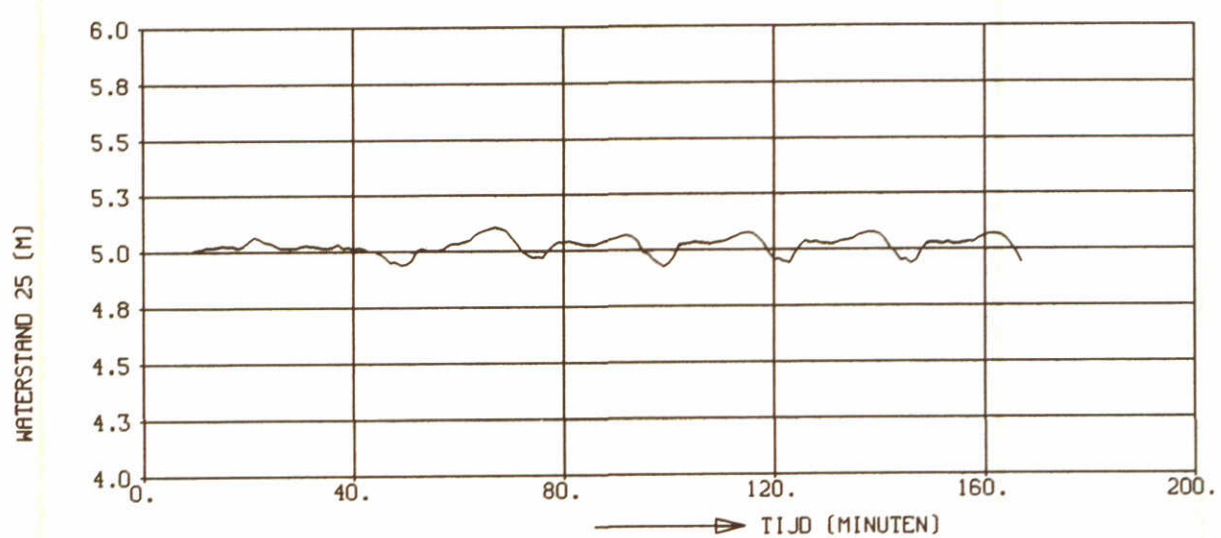
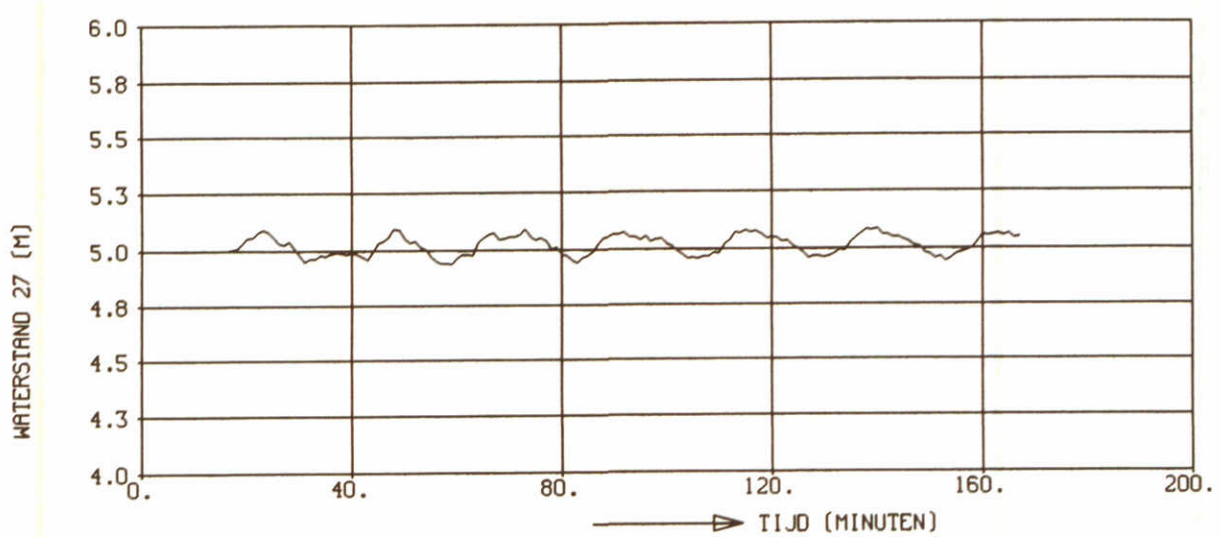
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19

06/15/91

OPC - dm7

DELFT HYDRAULICS

FIG. 59



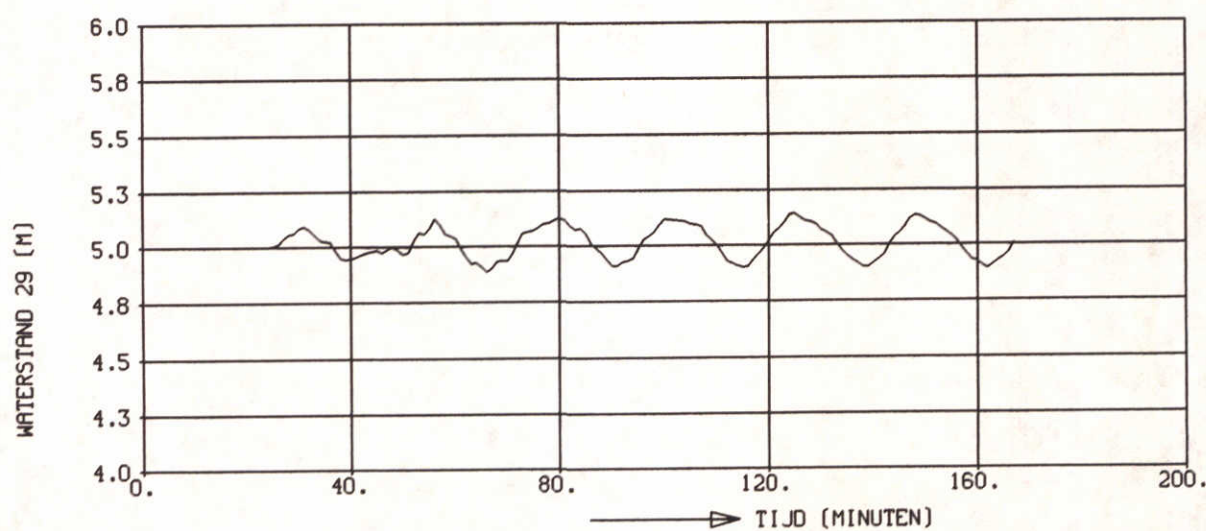
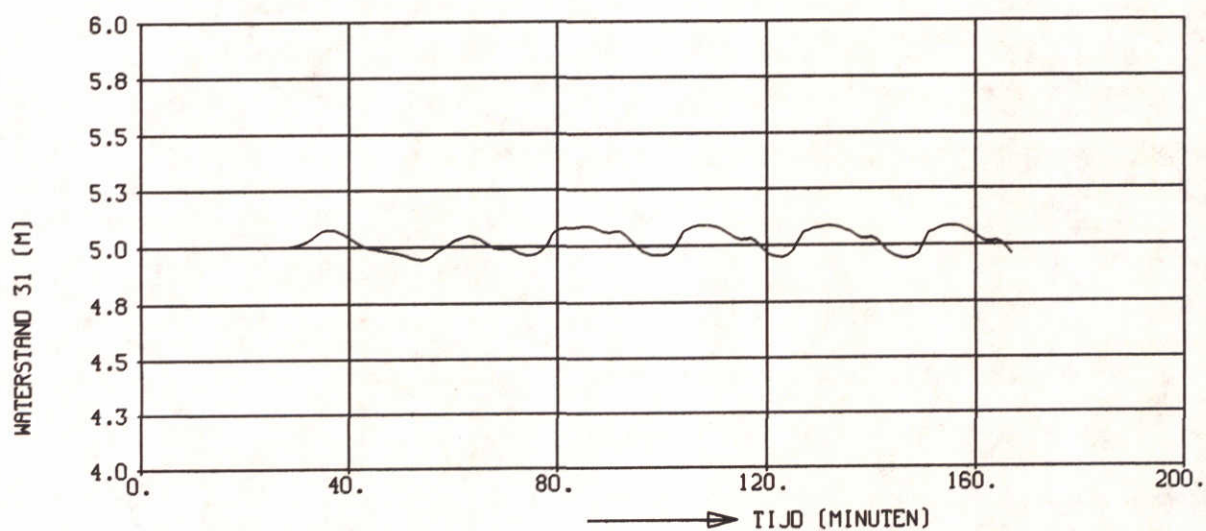
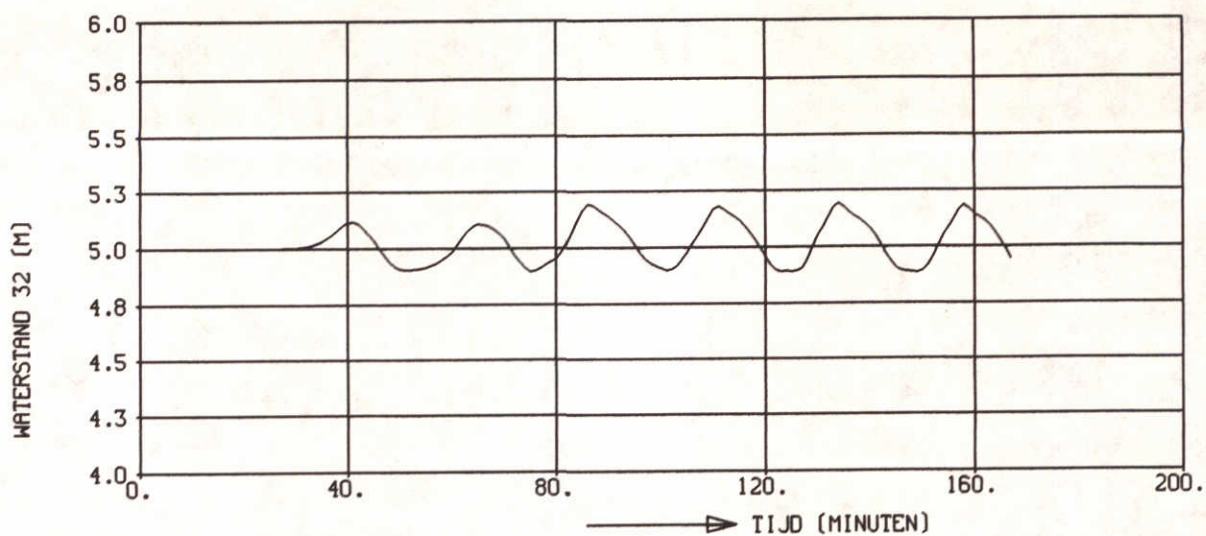
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 21, 25, 27

06/15/91

OPC - dm7

DELFT HYDRAULICS

FIG. 60



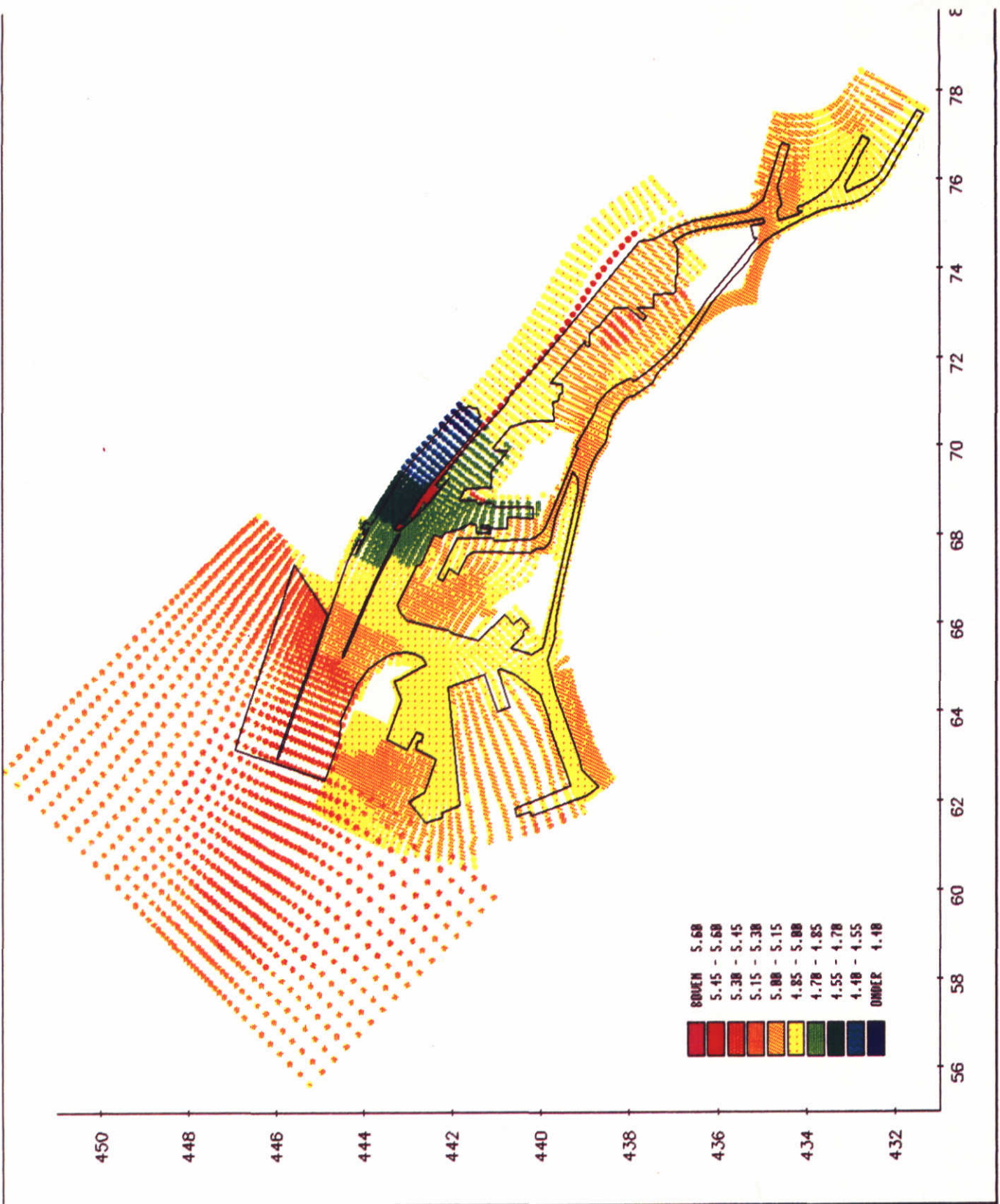
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 29, 31, 32

06/15/91

OPC - dm7

DELFT HYDRAULICS

FIG. 61



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

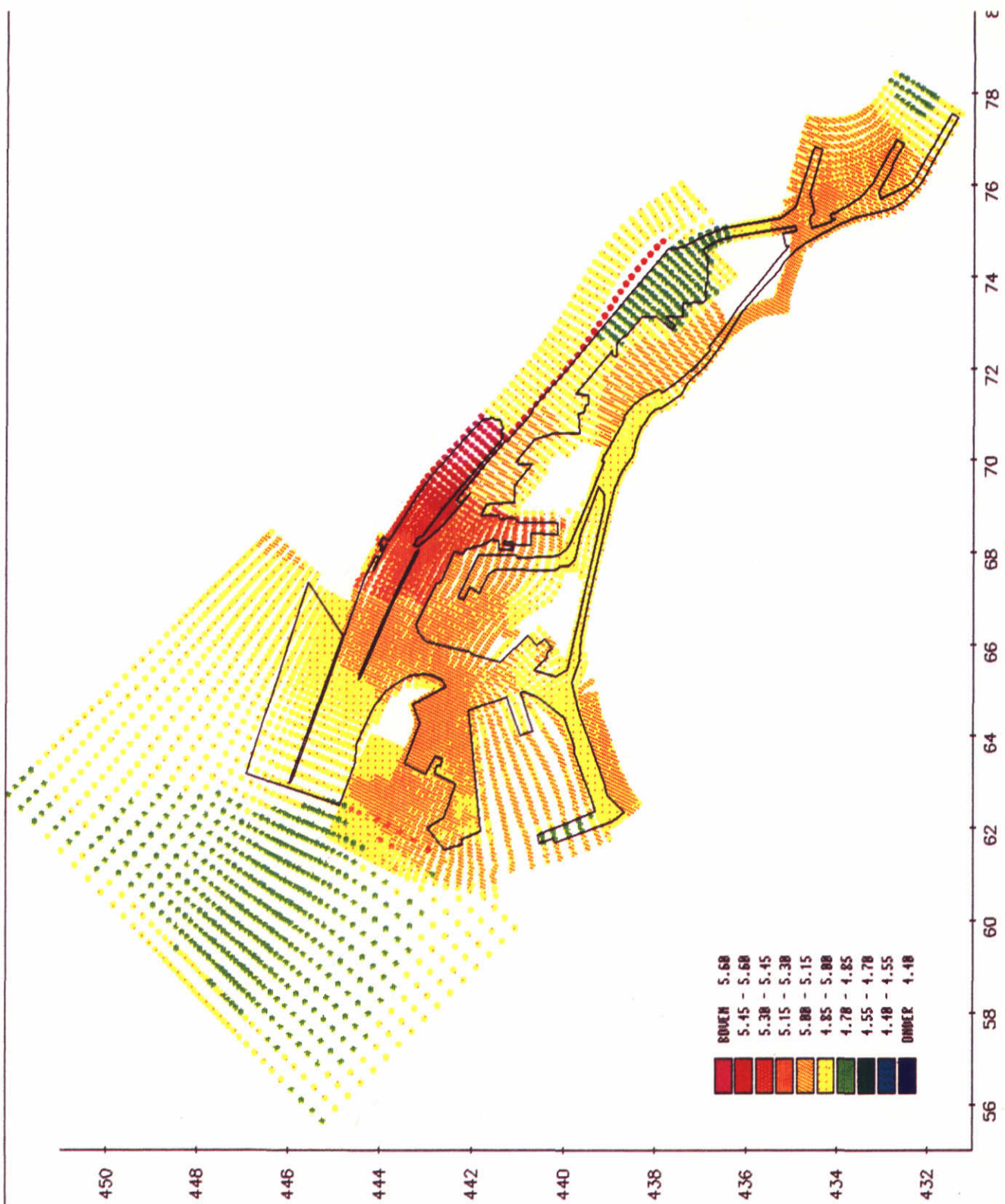
06/17/91 veld 1

OPC = dm?

DELFT HYDRAULICS

Z-434

FIG. 62



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

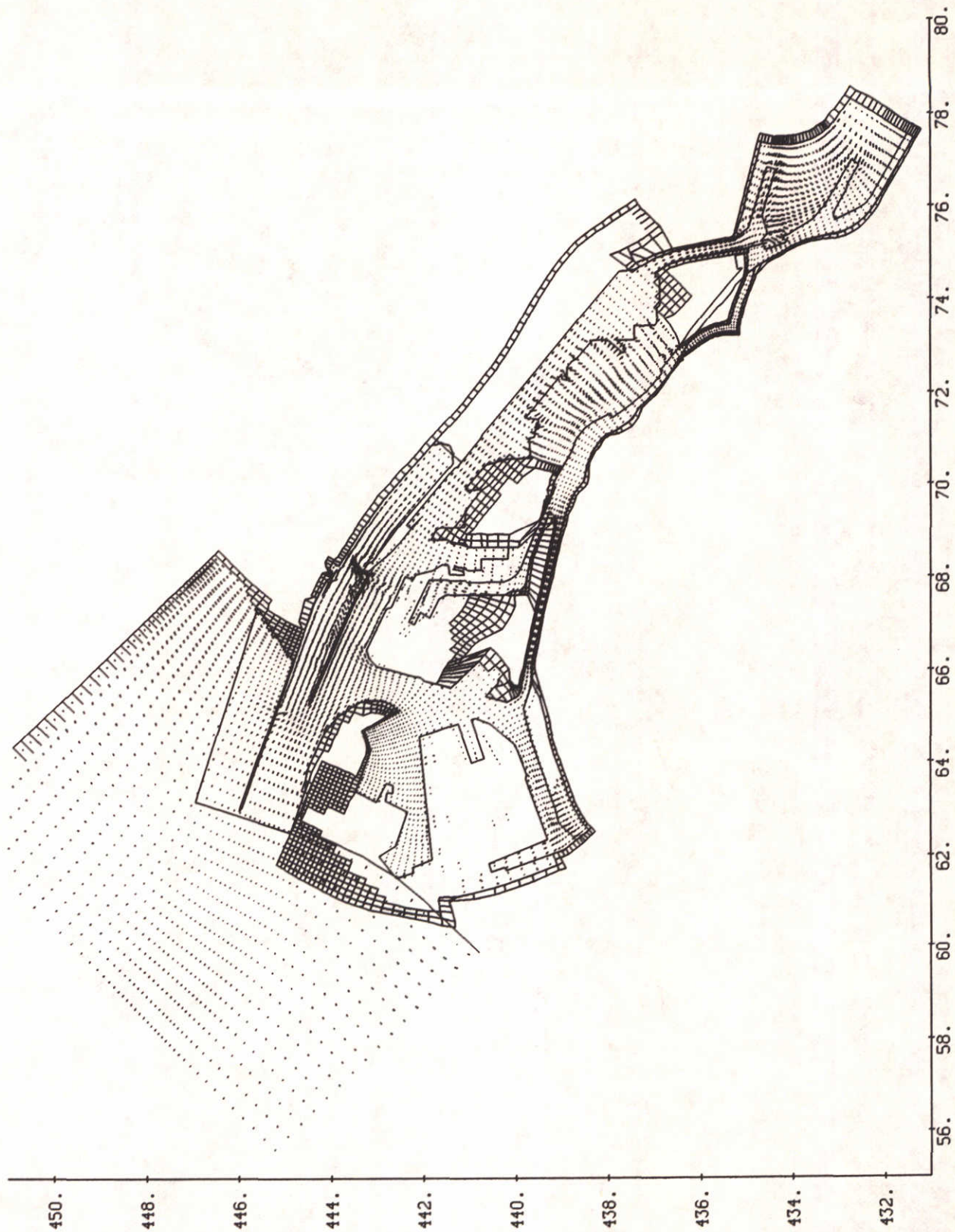
veld 3

DPC = dm7

DELFT HYDRAULICS

Z-434

FIG. 63



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

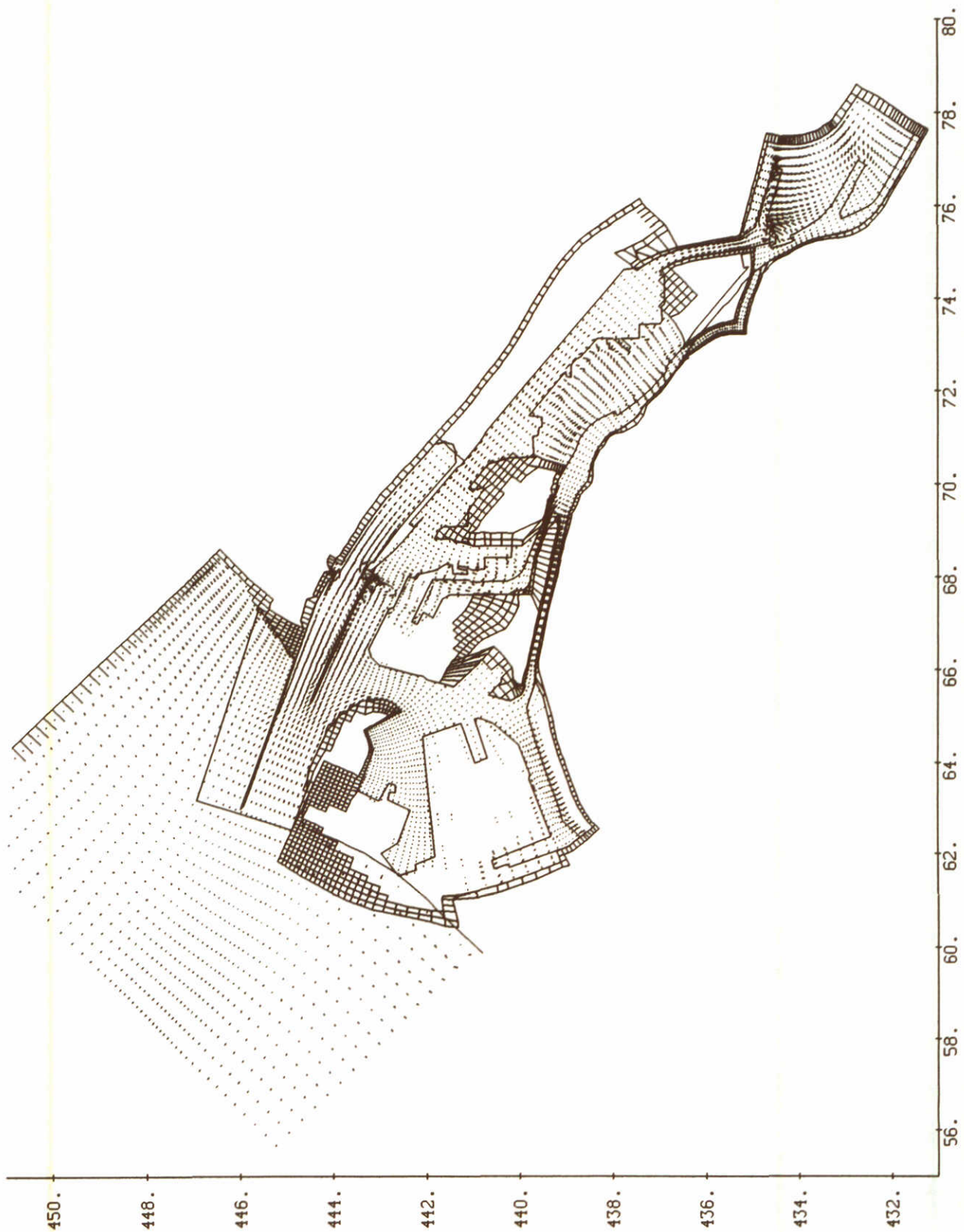
06/15/91 | veld 2

OPC - dm7

DELFT HYDRAULICS

Z-434

FIG. 64



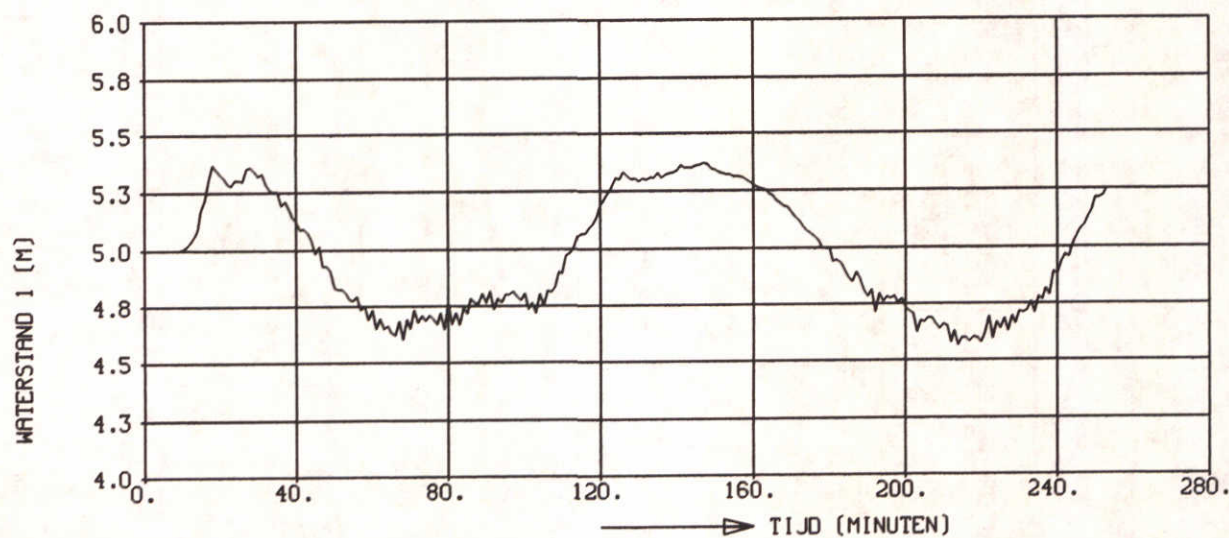
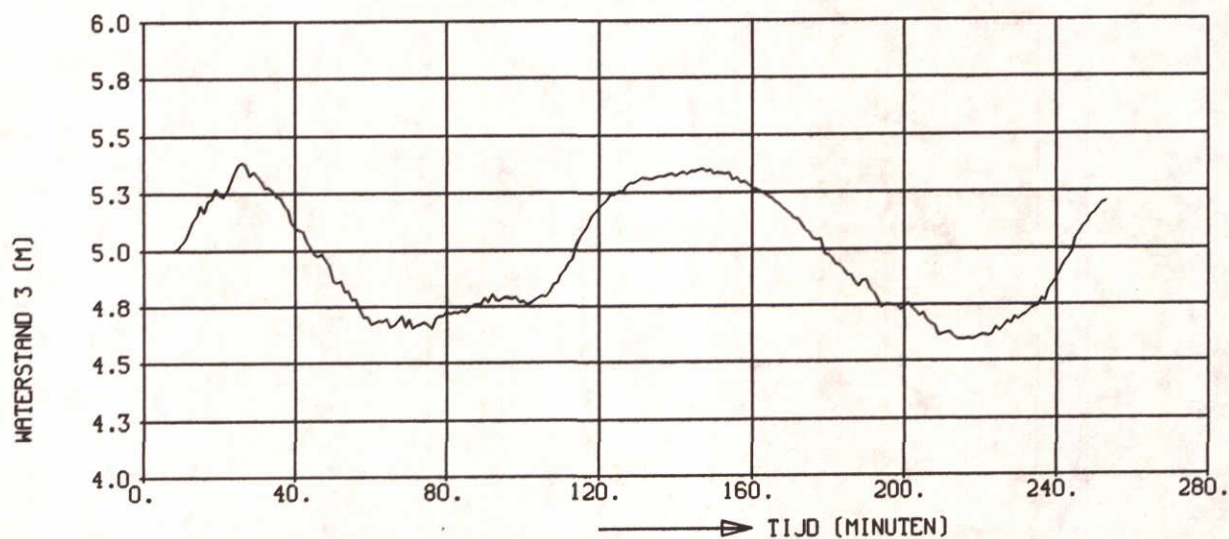
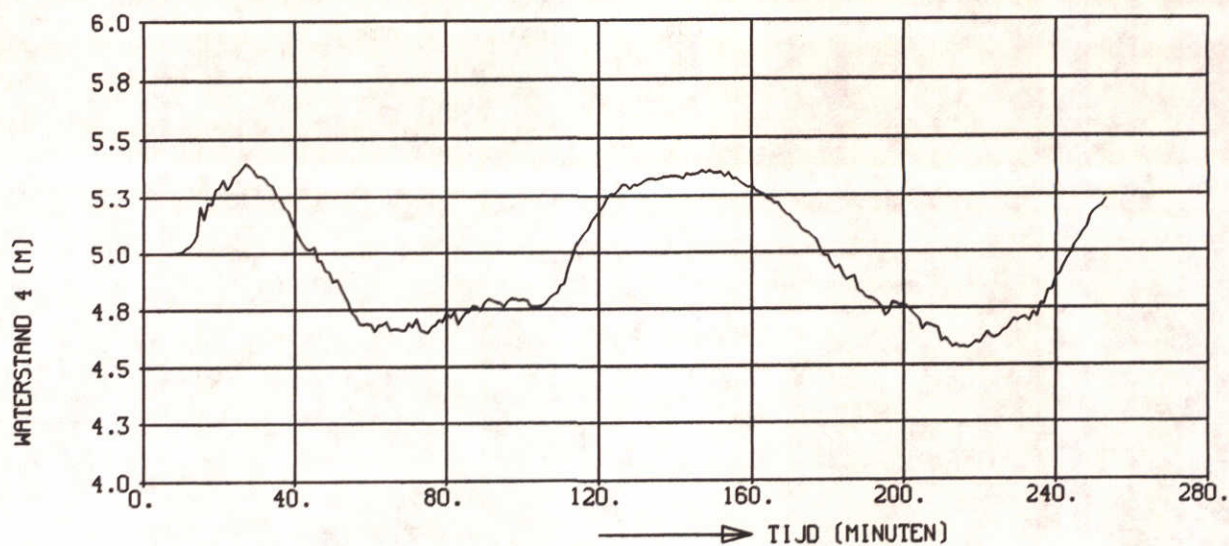
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91 veld 5

OPC - dm7

Z-434

FIG. 65



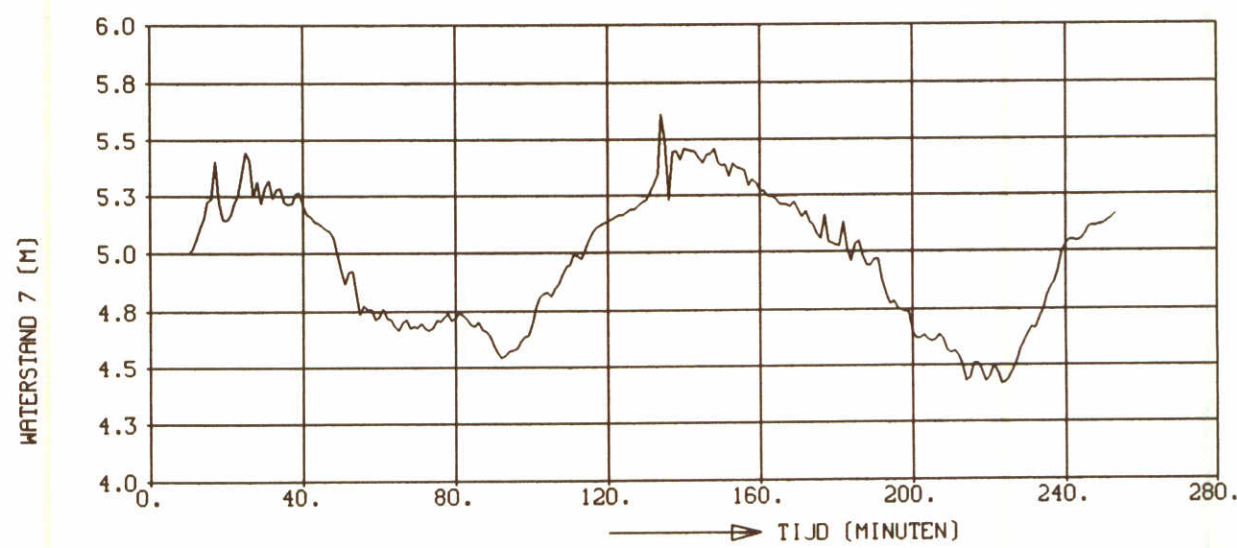
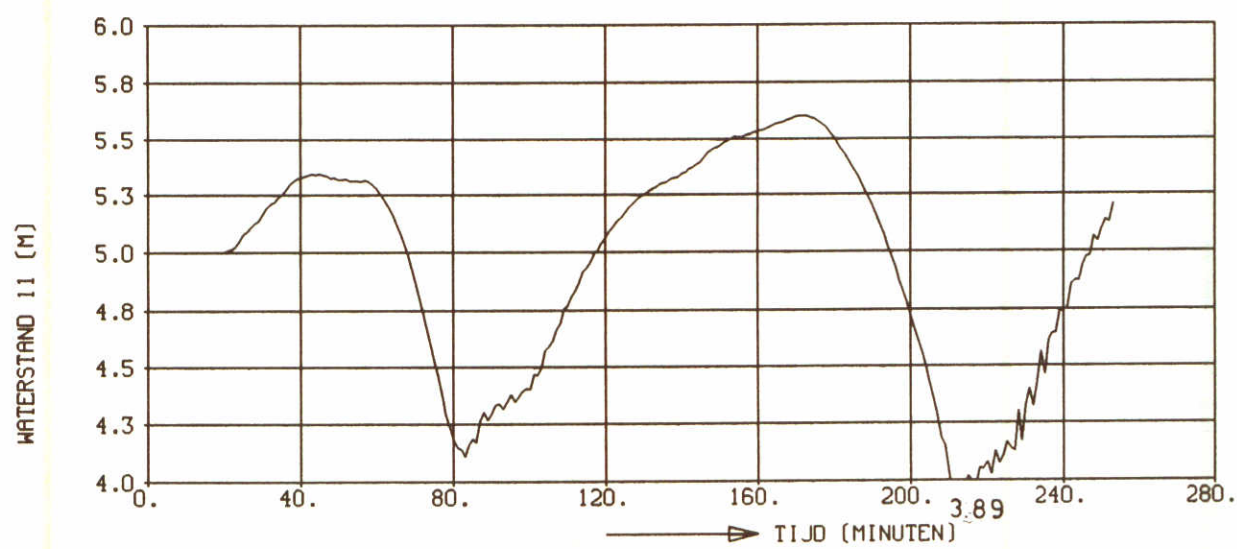
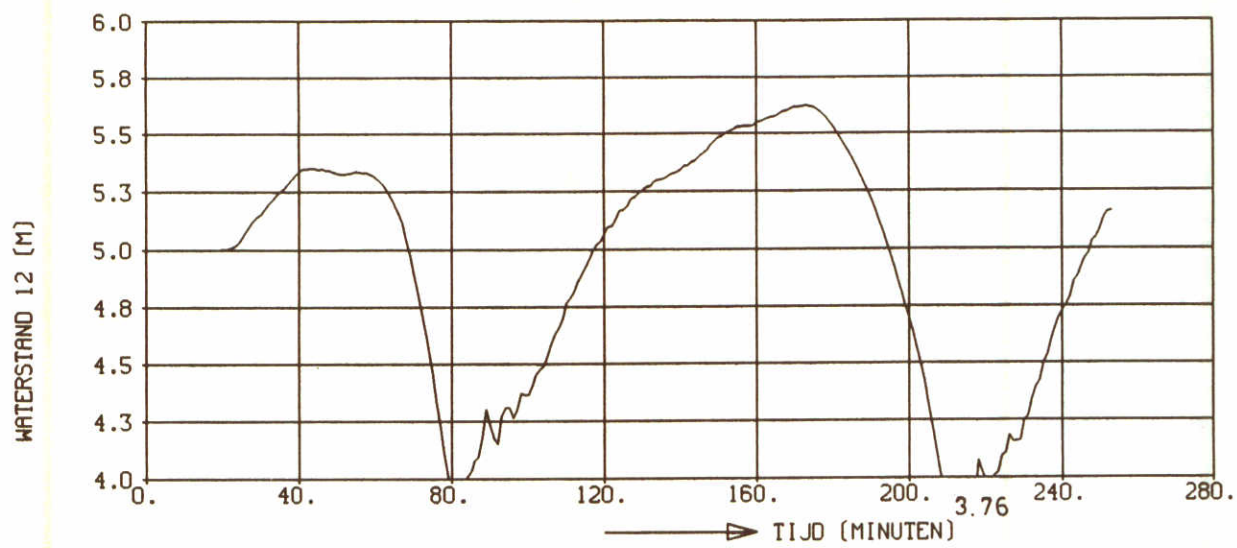
SEICHES EUROPOORT
TIJDREKSEN VAN WATERSTANDEN 1, 3, 4

06/16/91

OPC - dm9

DELFT HYDRAULICS

FIG.66



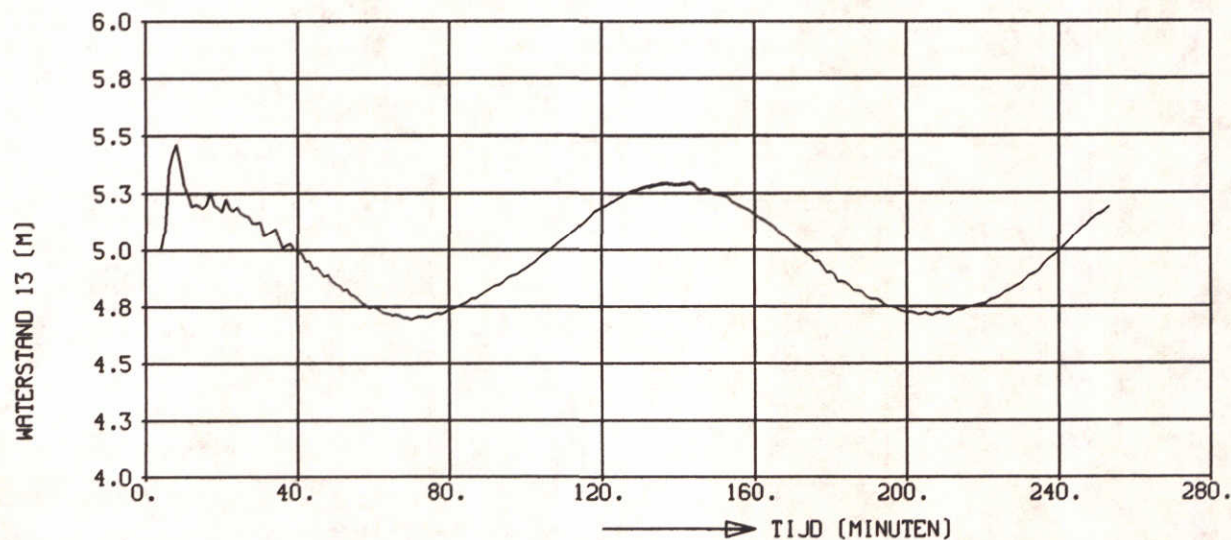
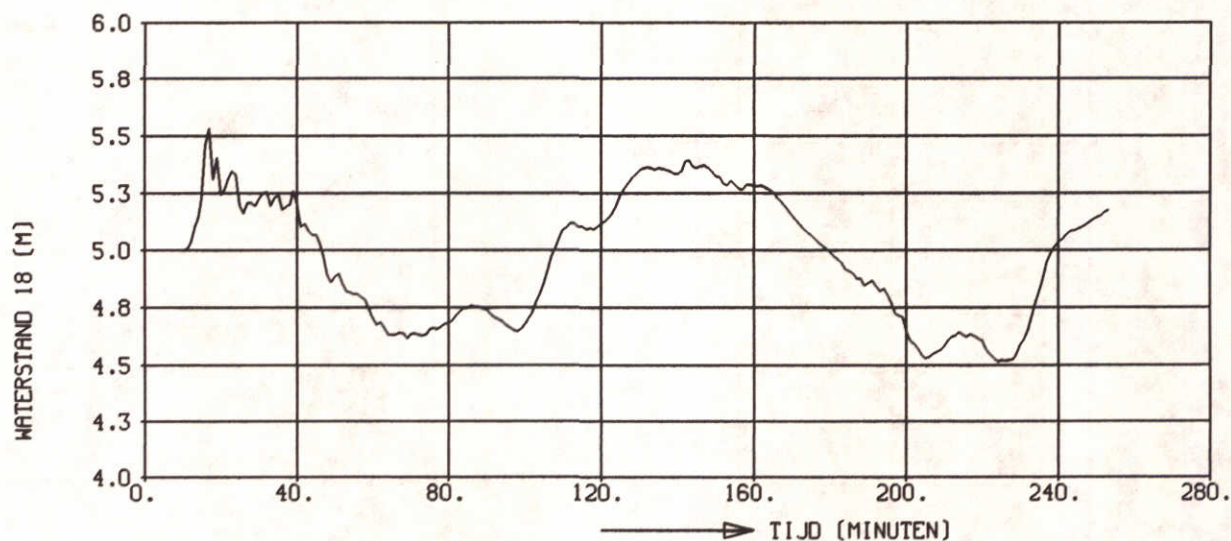
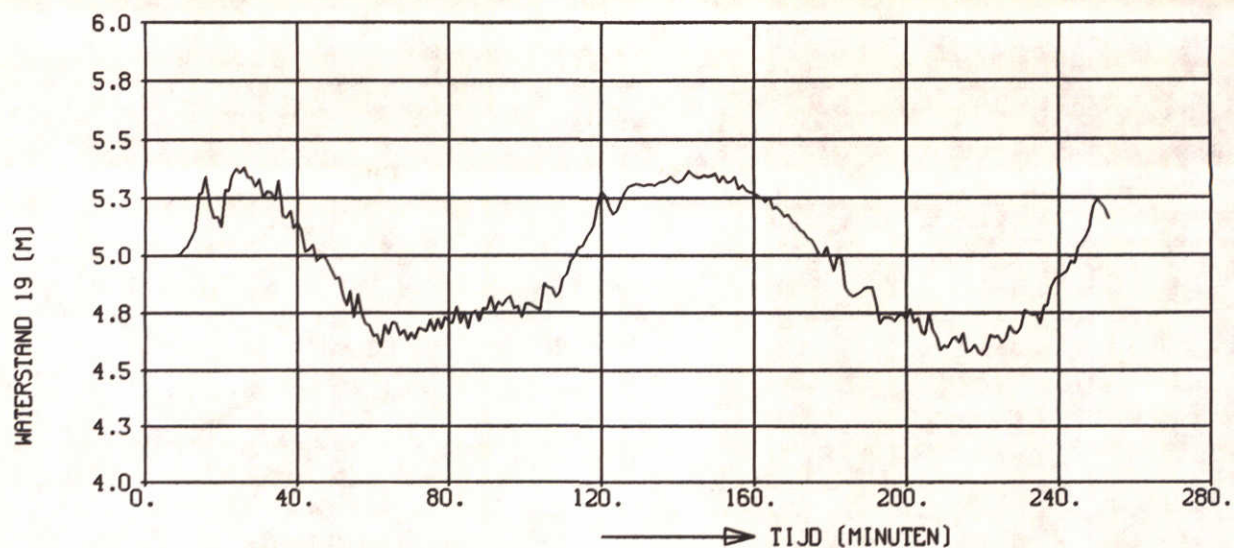
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/16/91

OPC - dm9

DELFT HYDRAULICS

FIG. 67



SEICHES EUROPOORT

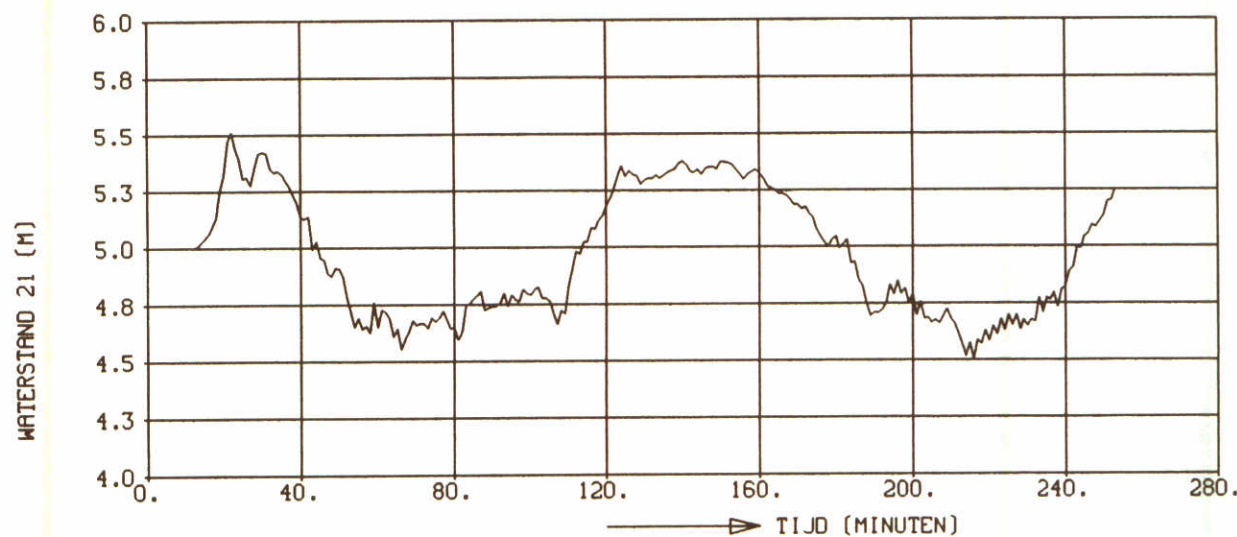
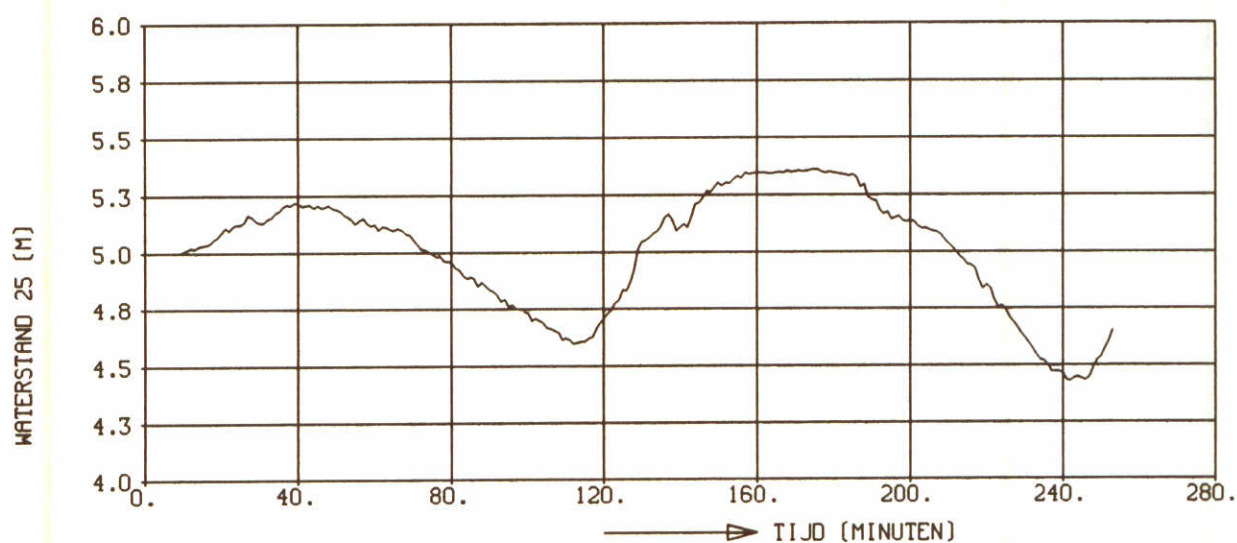
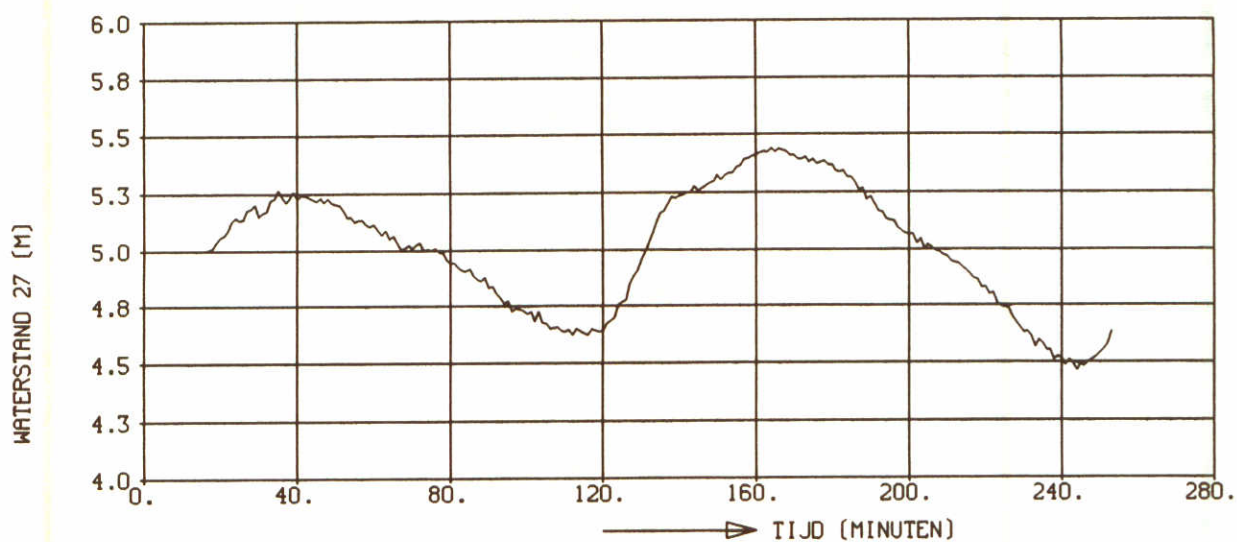
TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19

06/16/91

OPC - dm9

DELFT HYDRAULICS

FIG. 68



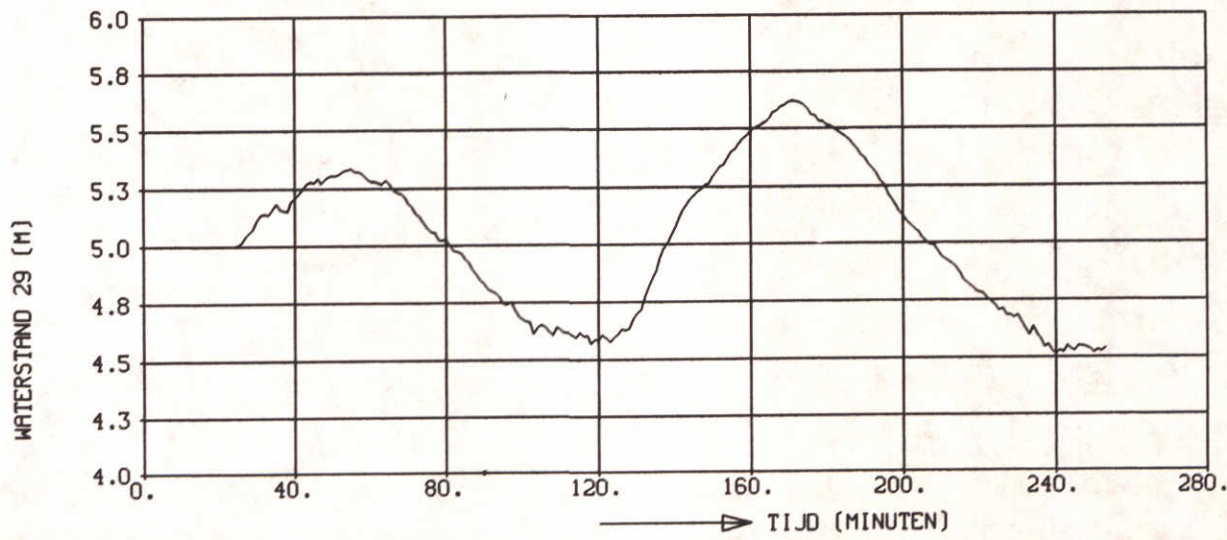
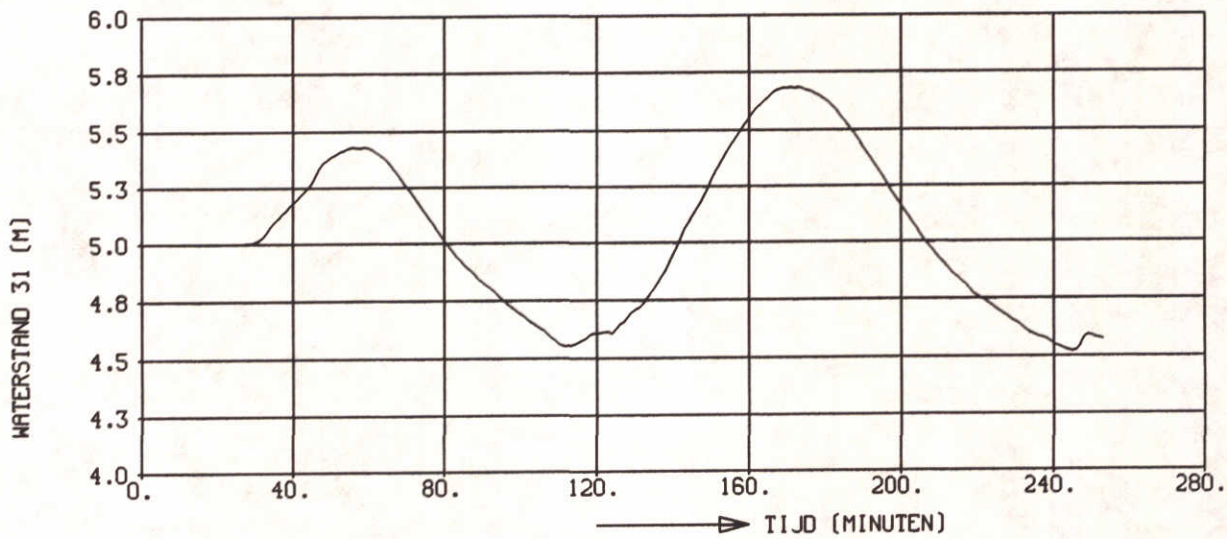
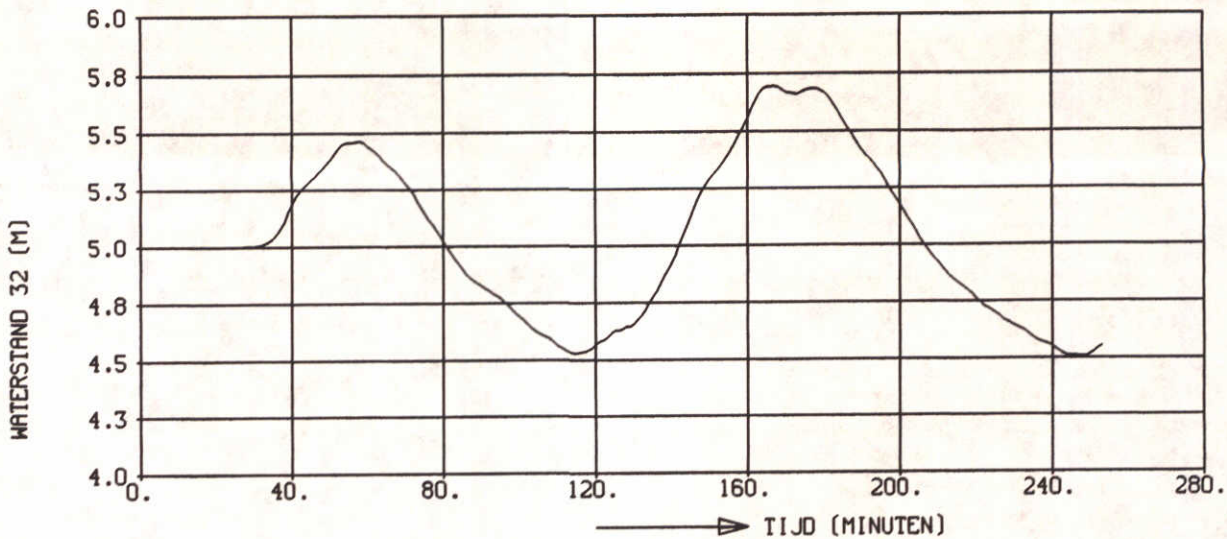
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 21, 25, 27

06/16/91

OPC - dm9

DELFT HYDRAULICS

FIG.69



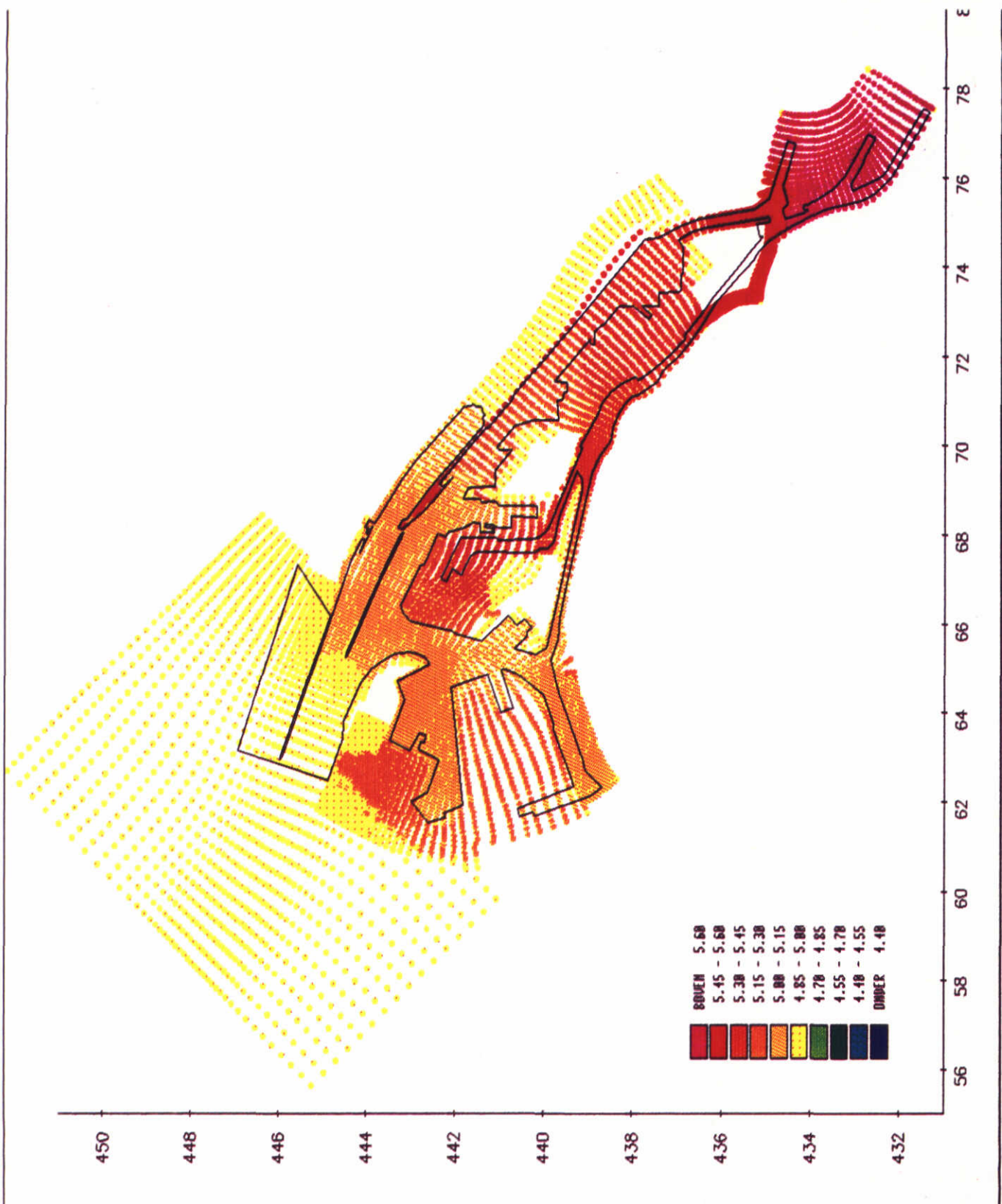
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 29, 31, 32

06/16/91

OPC - dm9

DELFT HYDRAULICS

FIG.70



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

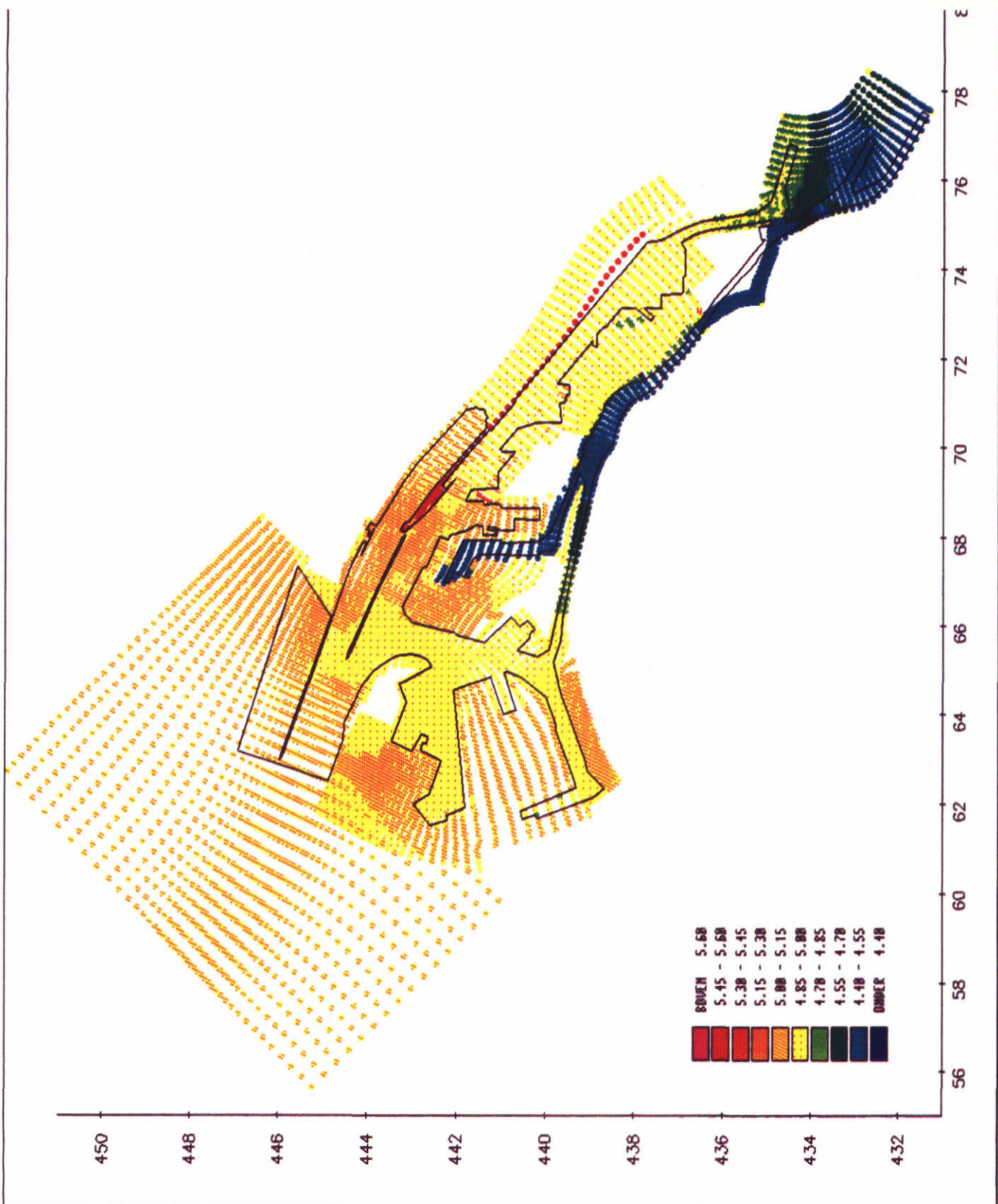
veld 3

OPC = dm9

DELFT HYDRAULICS

Z-434

FIG. 71



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

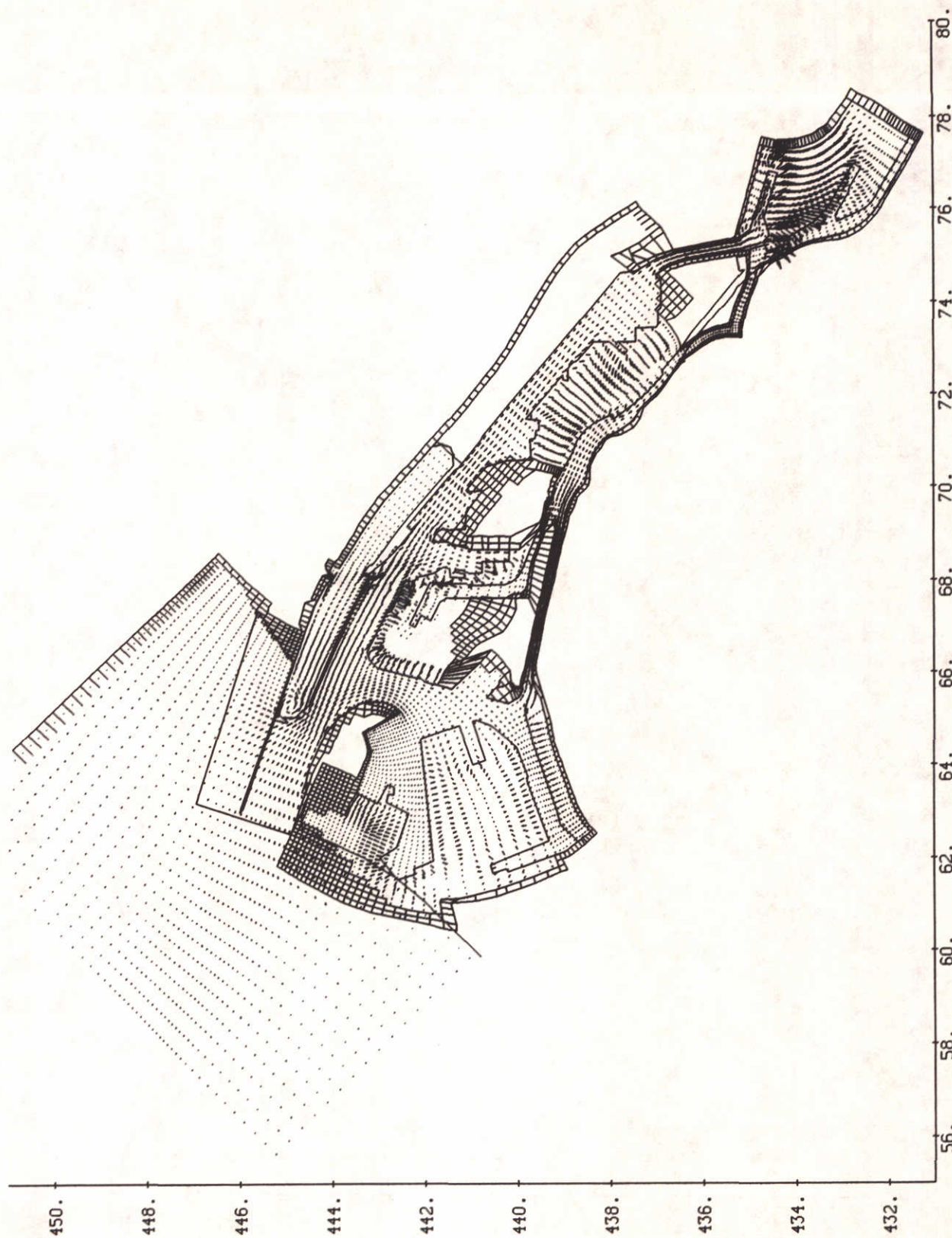
veld 6

OPC = dm9

DELFT HYDRAULICS

Z-434

FIG. 72



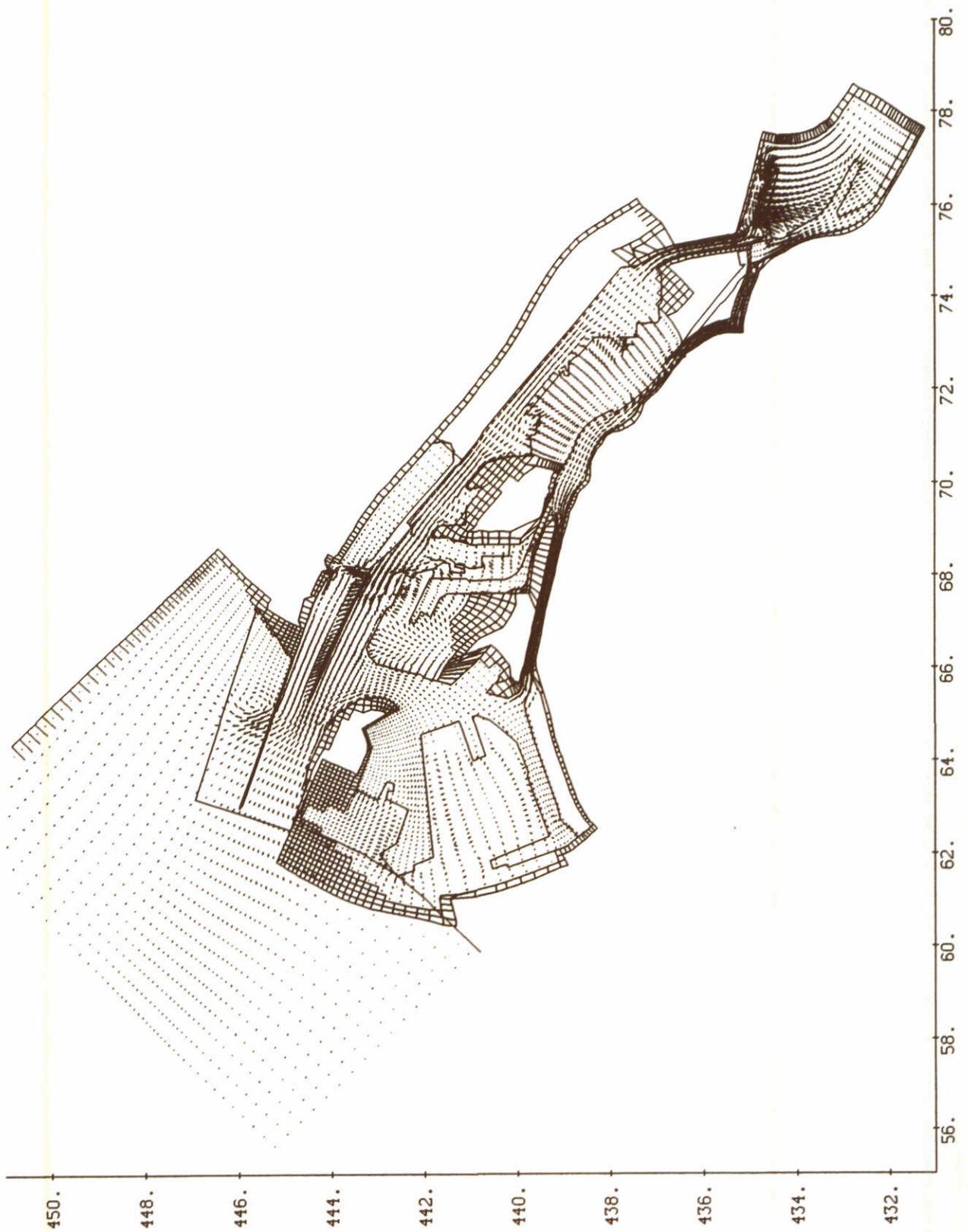
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91 veld 1

OPC - dm9

Z-434

FIG. 73



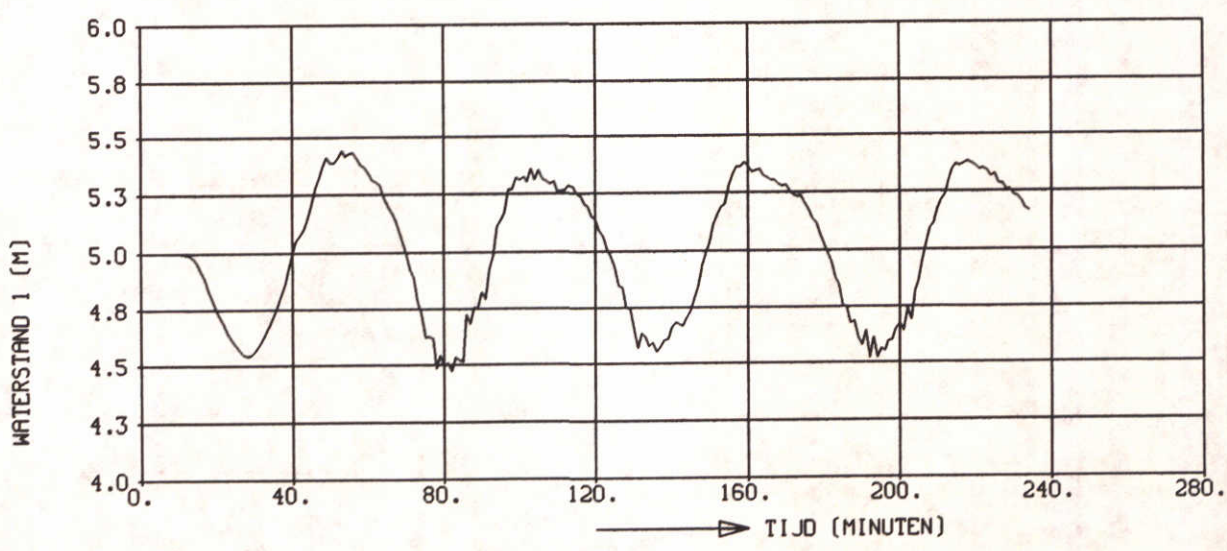
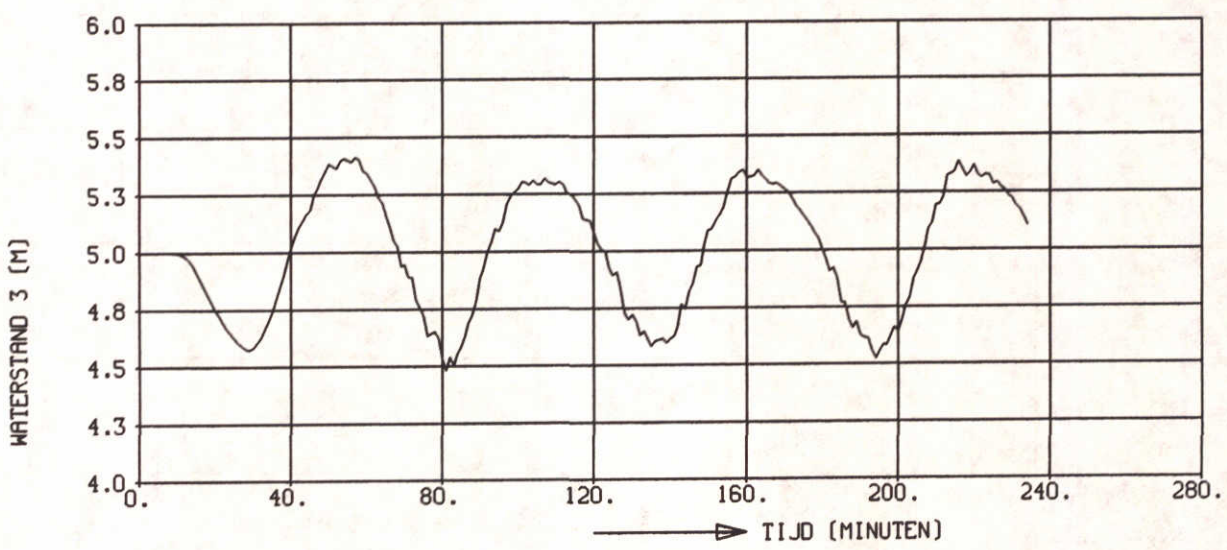
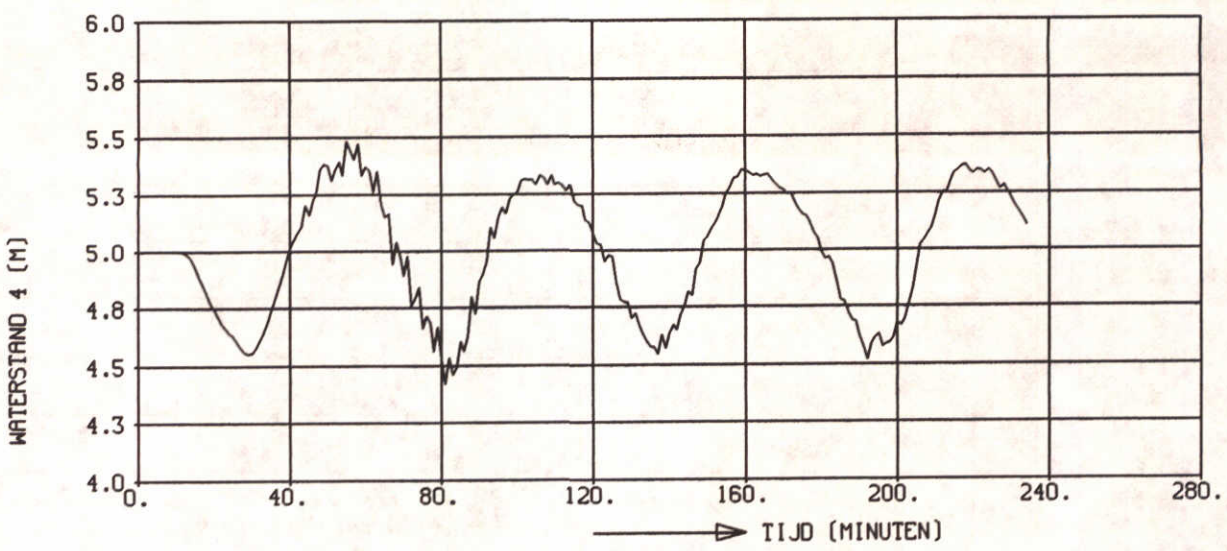
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/15/91 veld 4

OPC - dm9

Z-434

FIG. 74



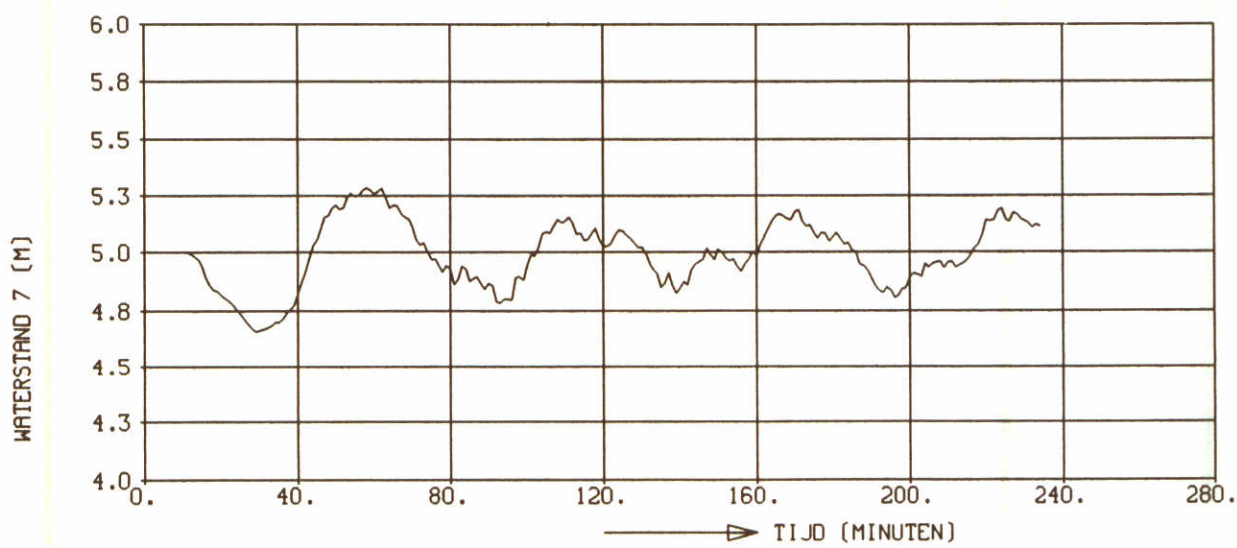
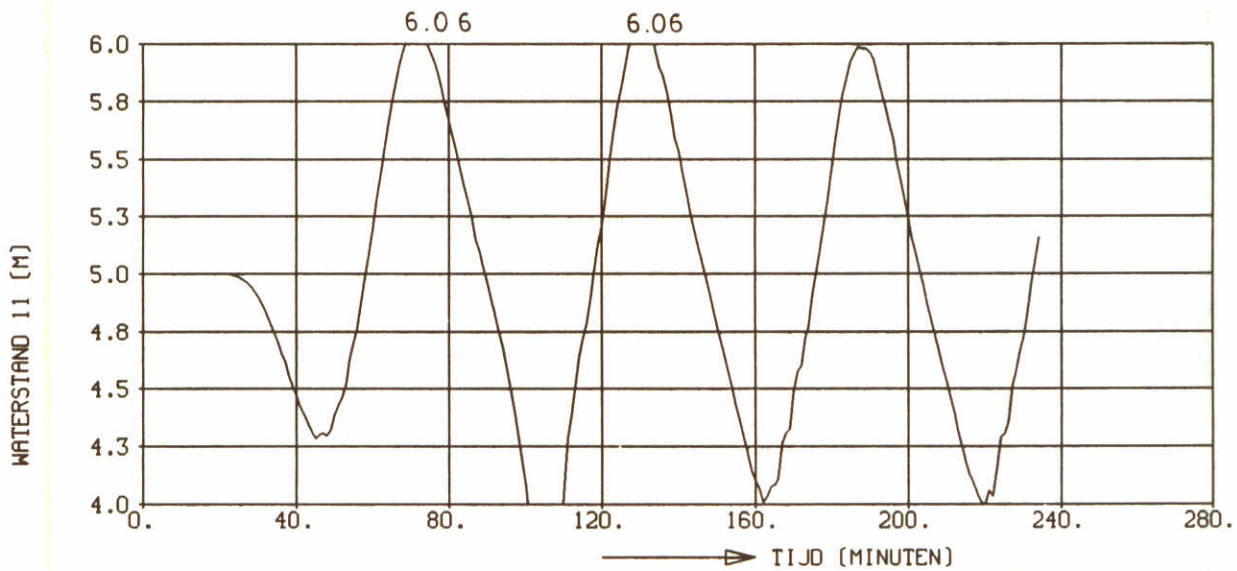
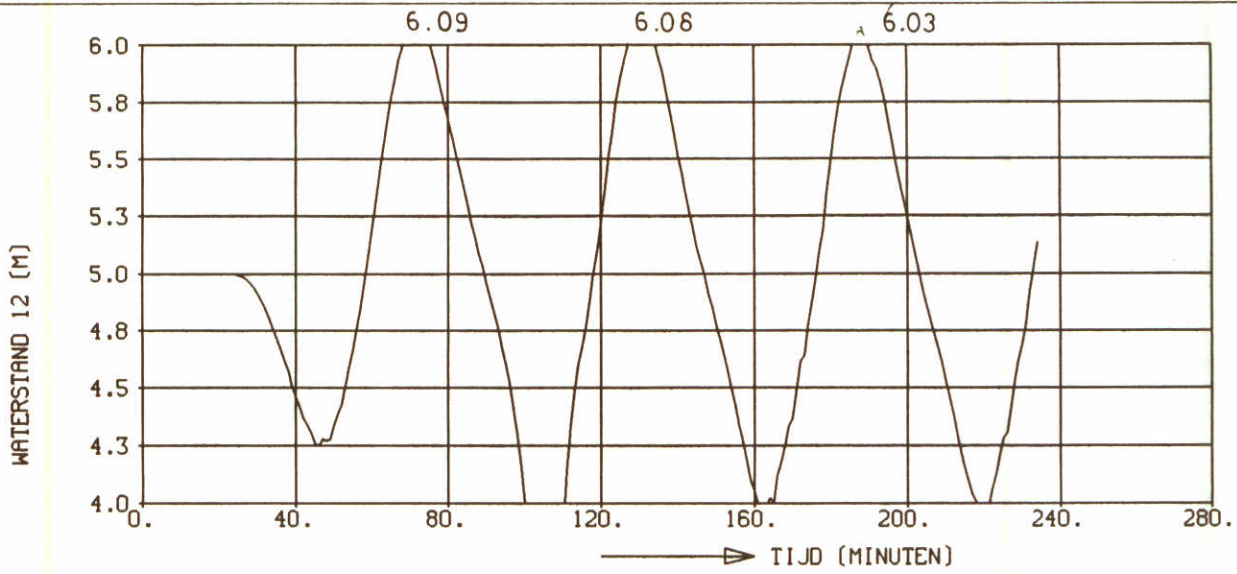
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4

06/17/91

OPC - om1

DELFT HYDRAULICS

FIG. 75



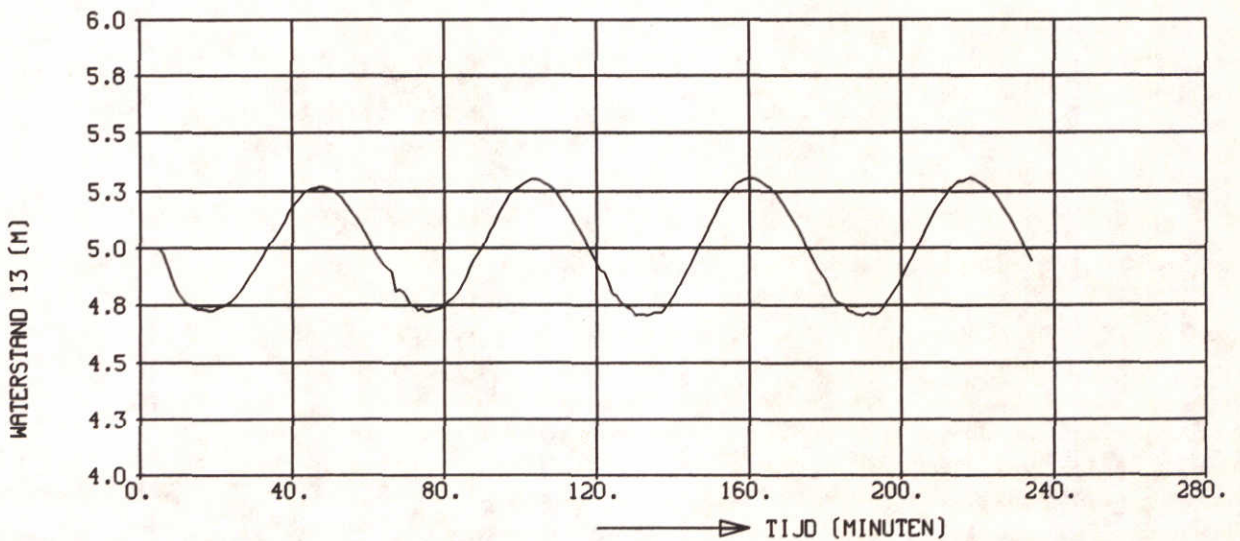
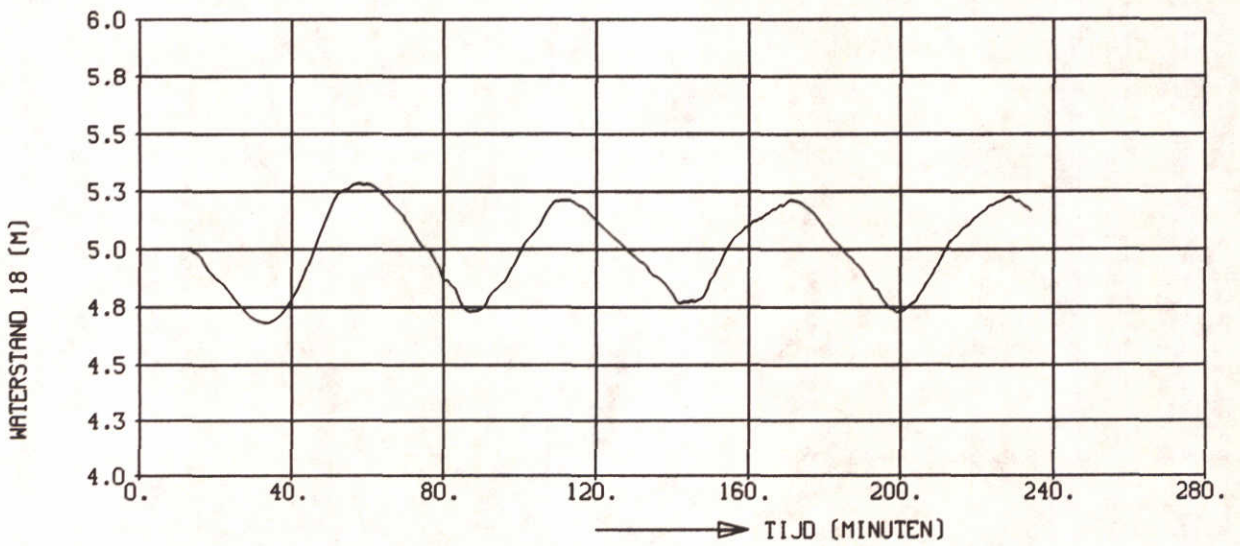
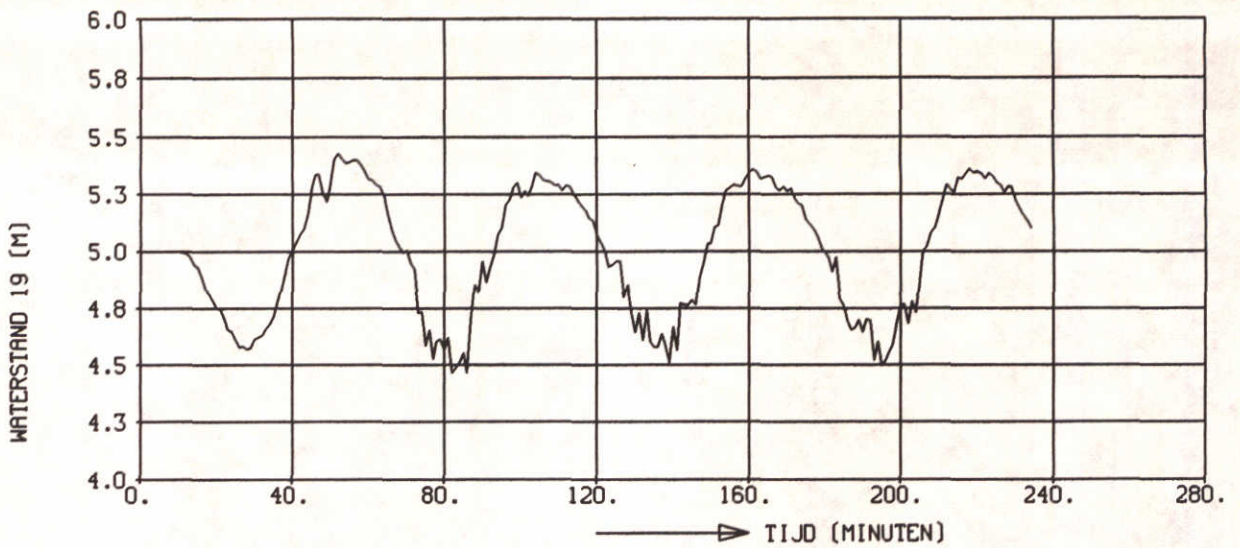
SEICHES EUROPOORT
 TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/17/91

OPC - om1

DELFT HYDRAULICS

FIG. 76



SEICHES EUROPOORT

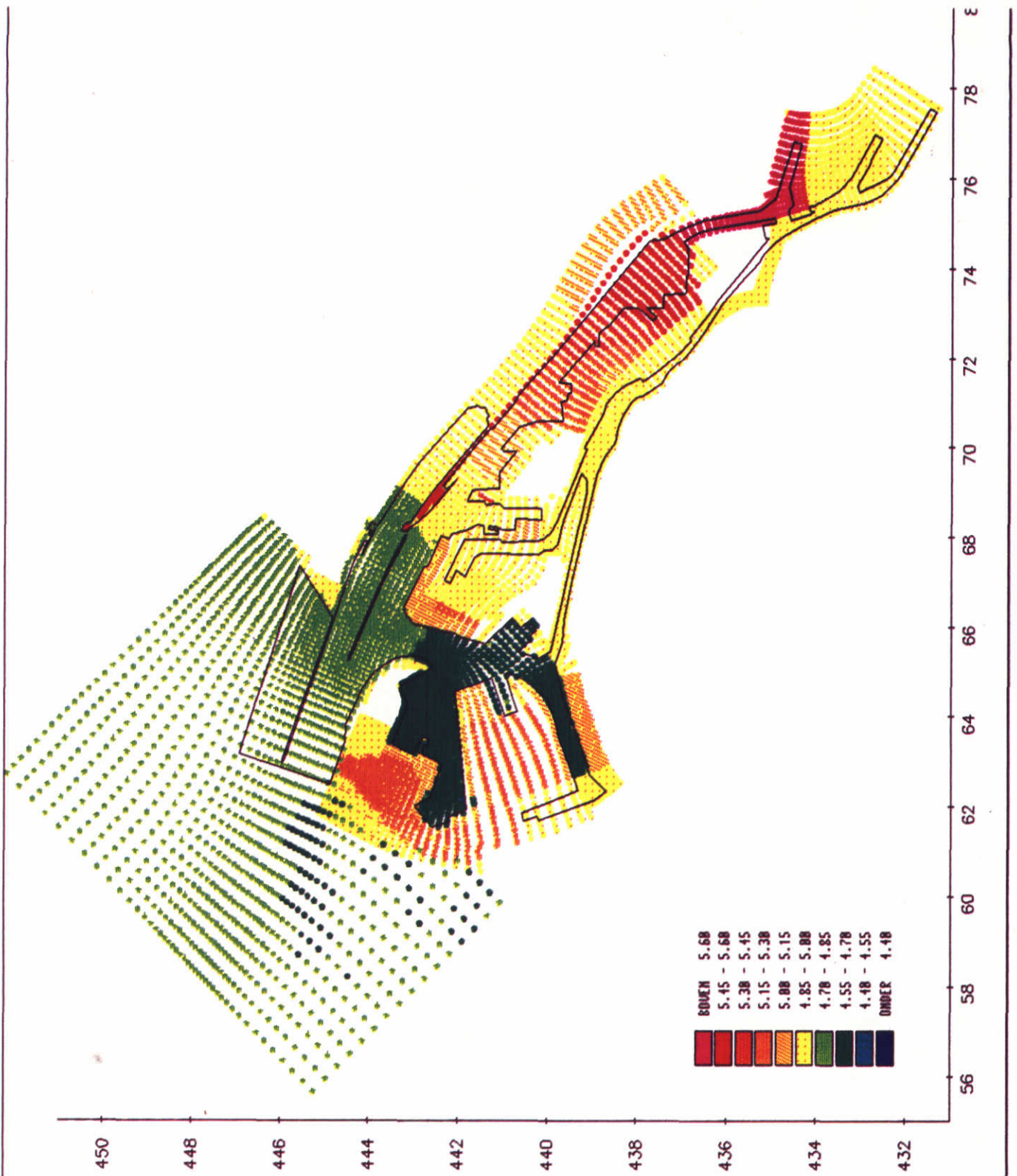
TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19

06/17/91

OPC - om1

DELFT HYDRAULICS

FIG.77



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

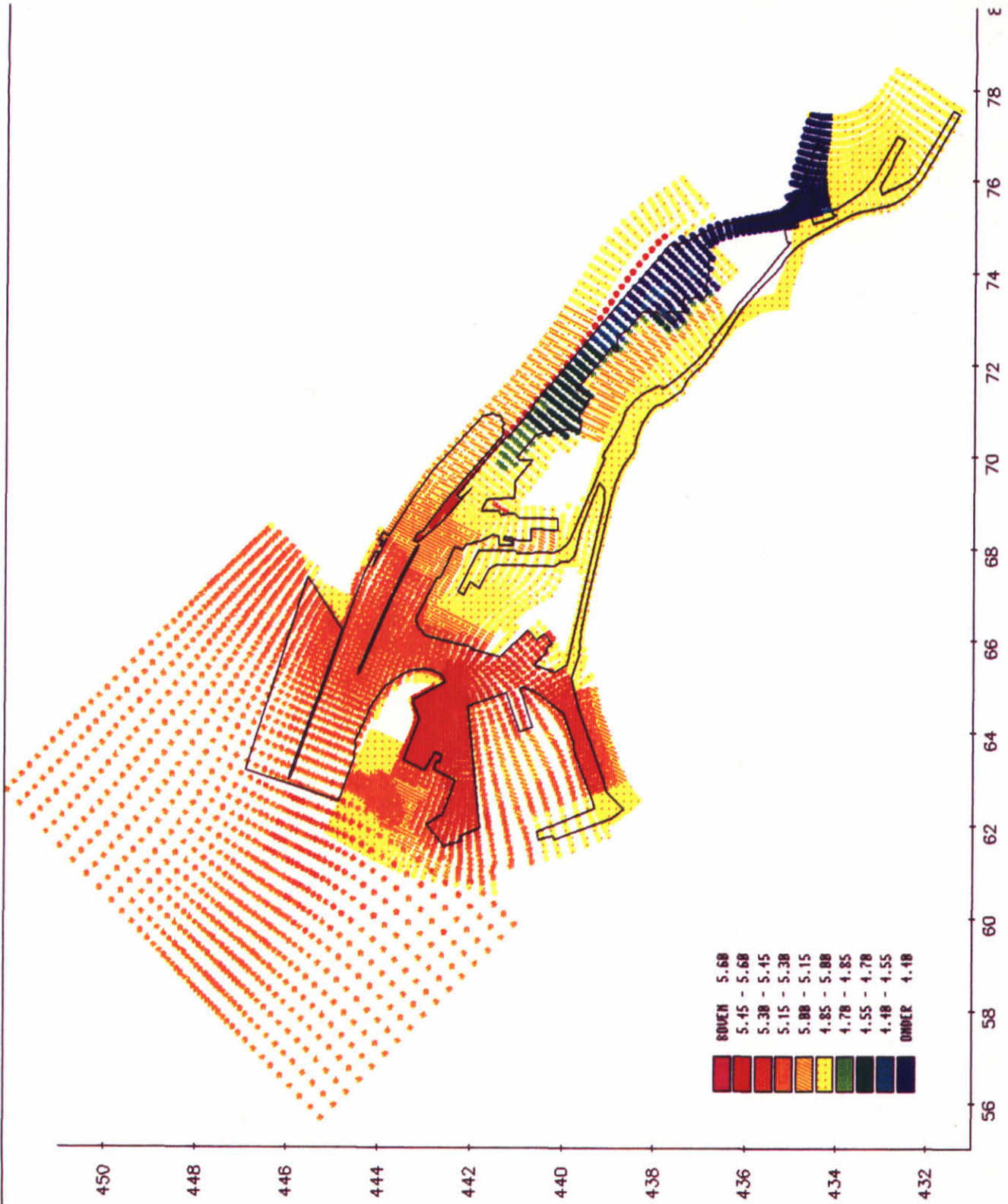
veld 2

OPC = om1

DELFT HYDRAULICS

Z-434

FIG. 78



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

DELFT HYDRAULICS

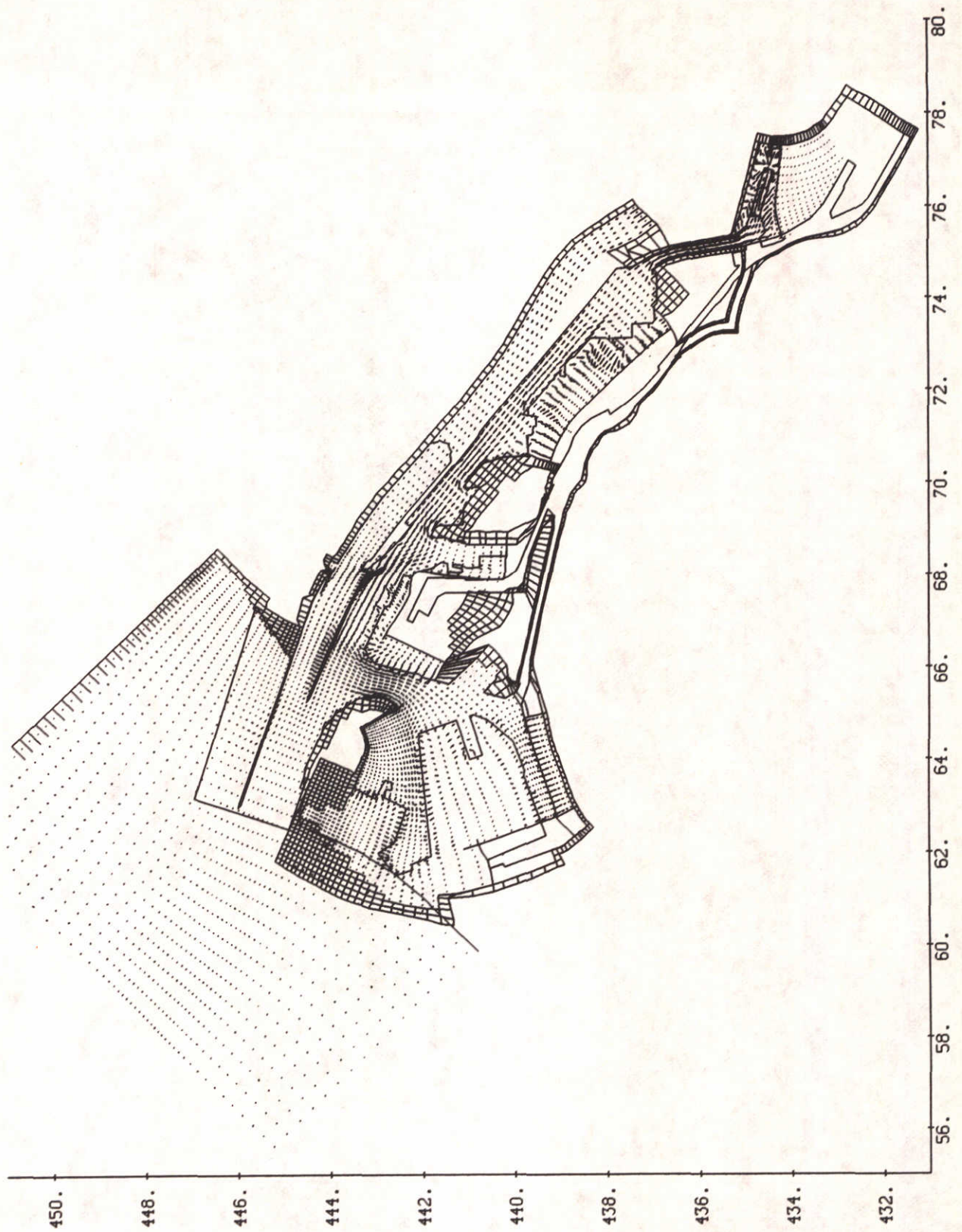
06/17/91

veld 5

OPC = om1

Z-434

FIG. 79



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

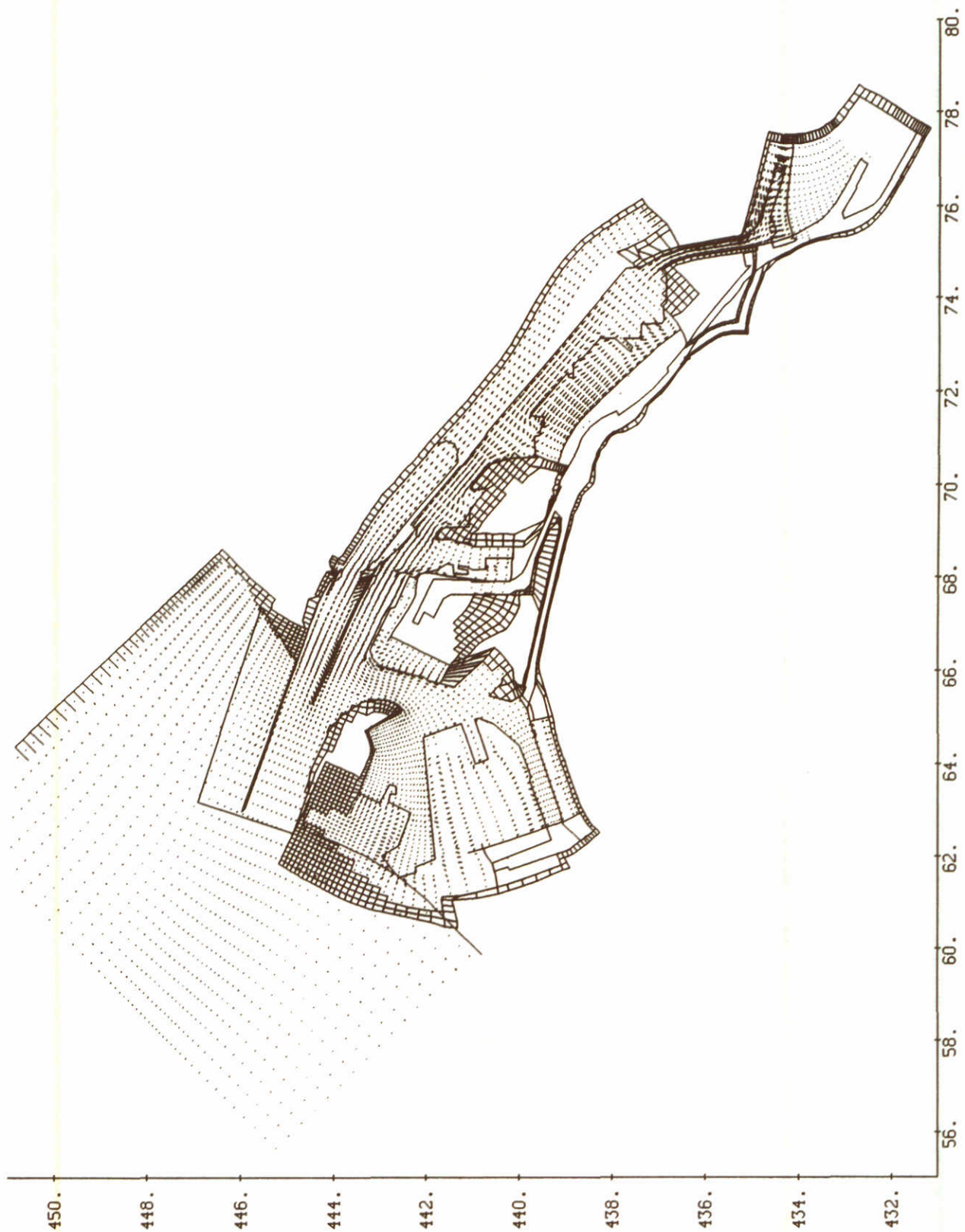
06/17/91

veld 1

OPC - om1

Z-434

FIG. 80



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

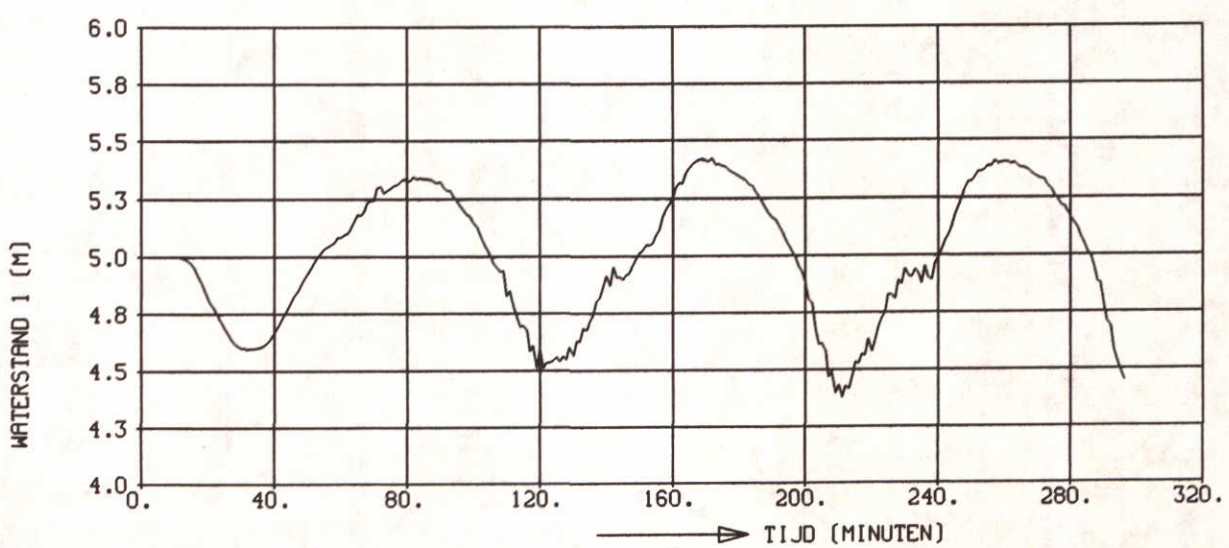
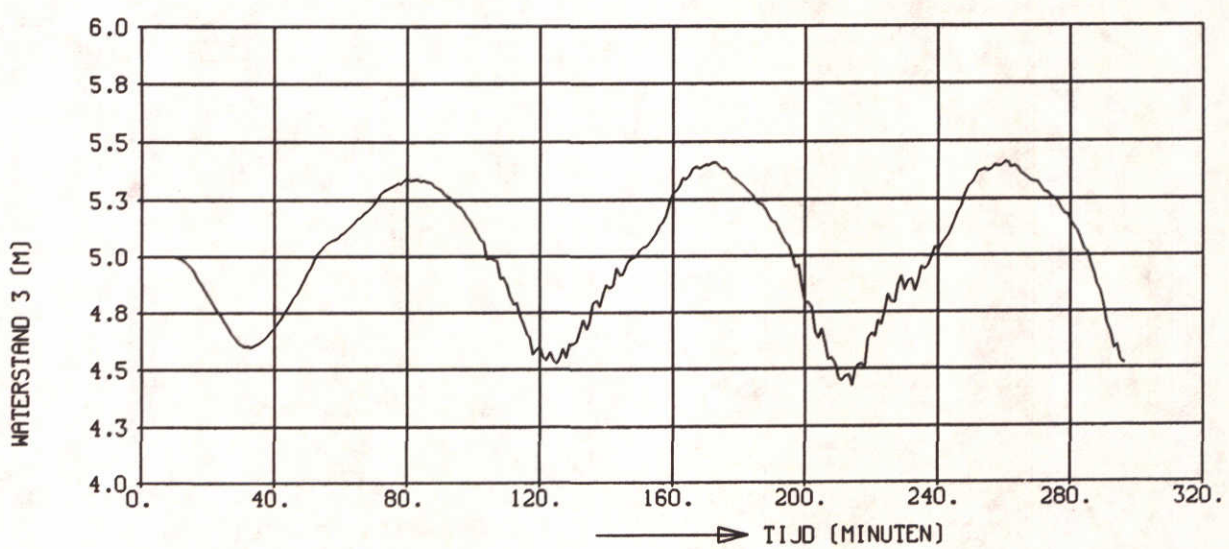
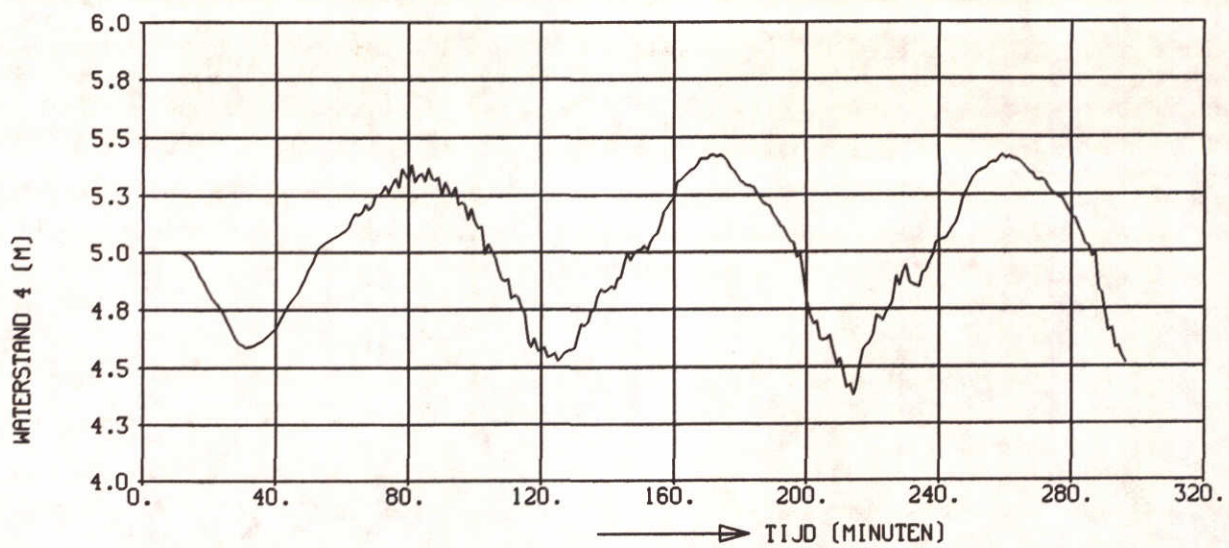
06/17/91 veld 3

OPC - om1

DELFT HYDRAULICS

Z-434

FIG. 81



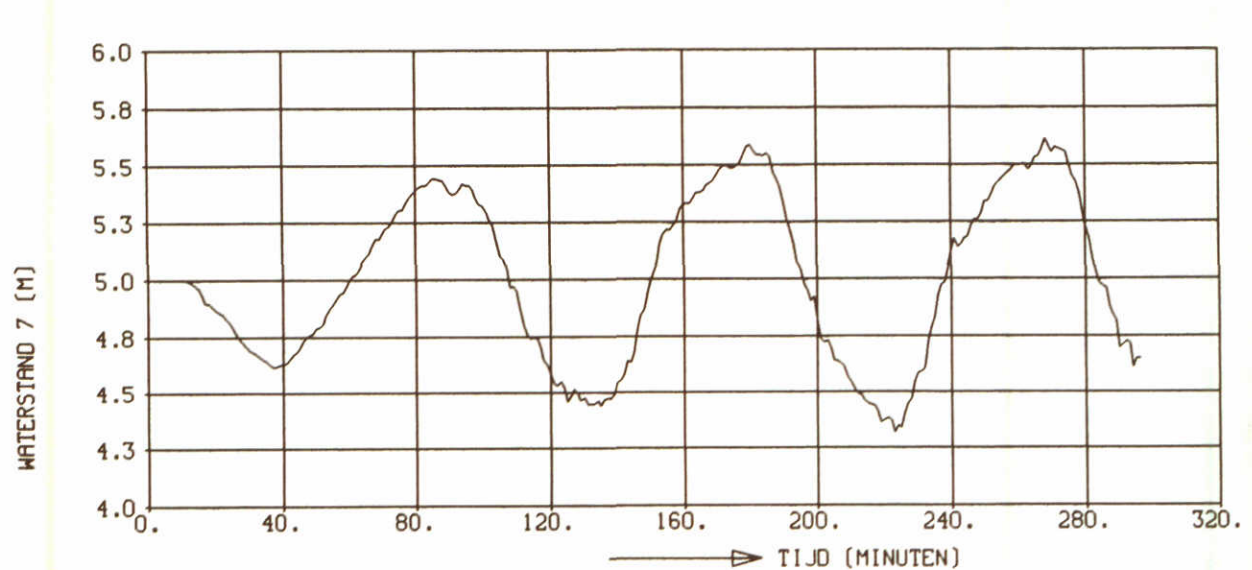
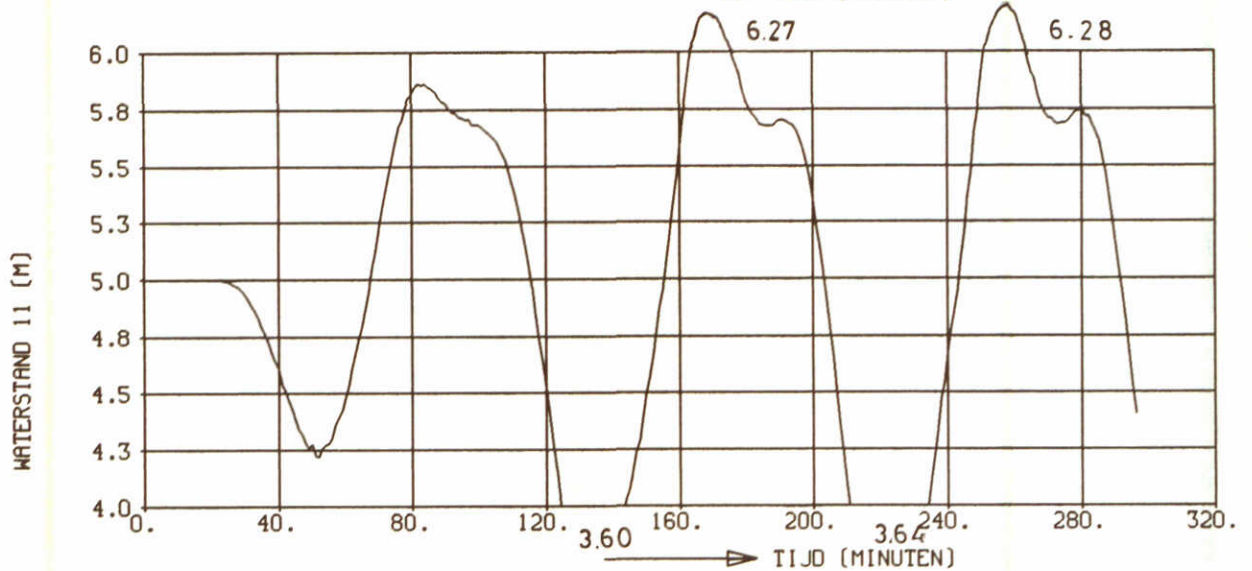
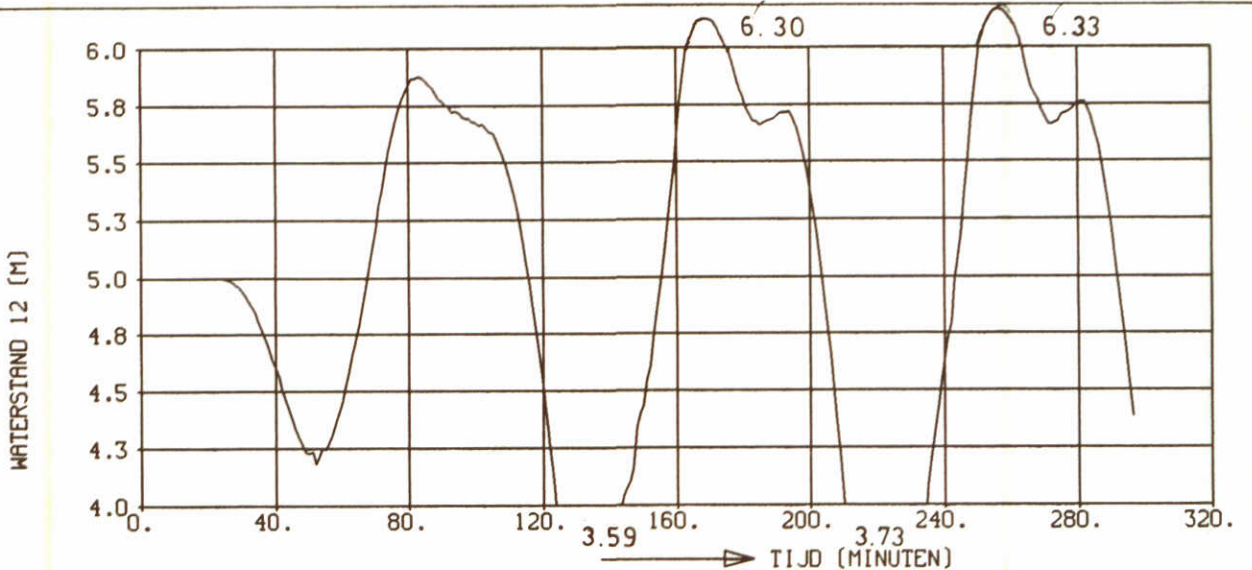
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4

06/17/91

OPC - om2

DELFT HYDRAULICS

FIG. 82



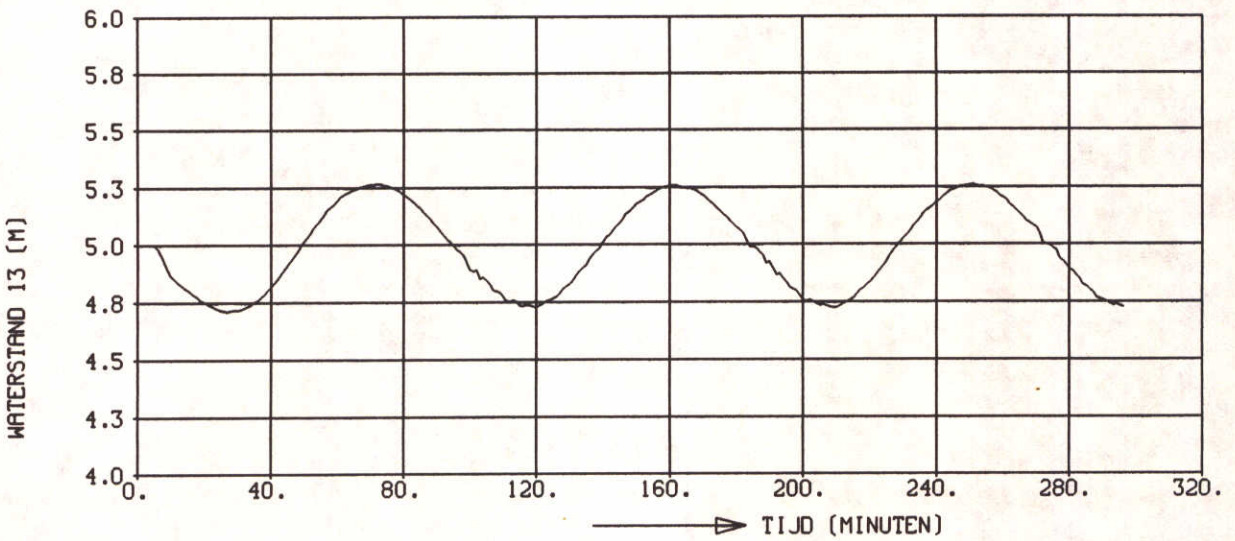
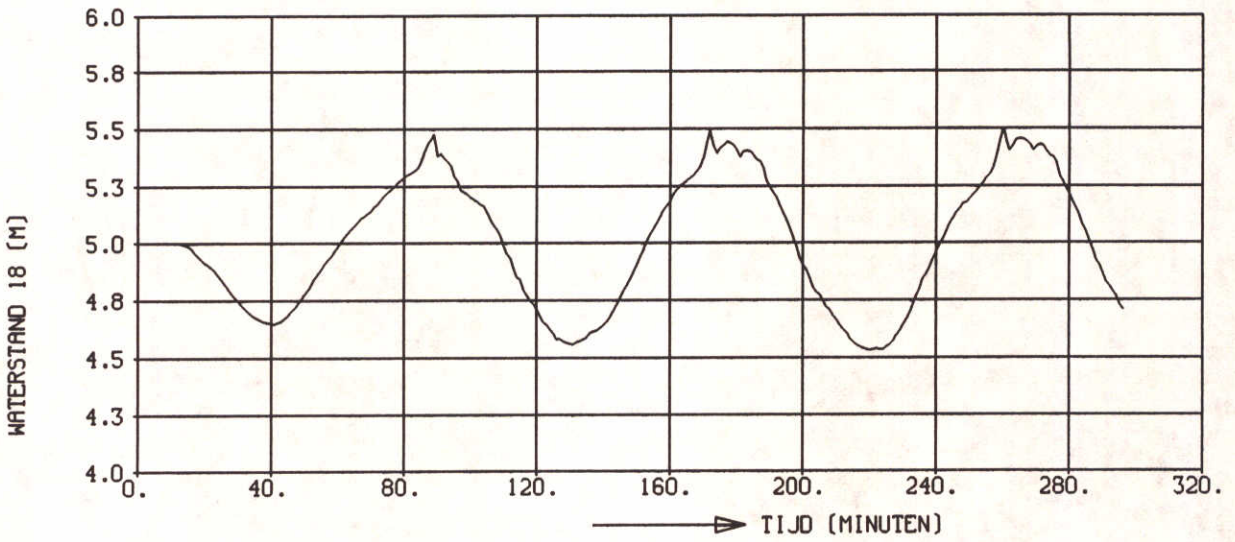
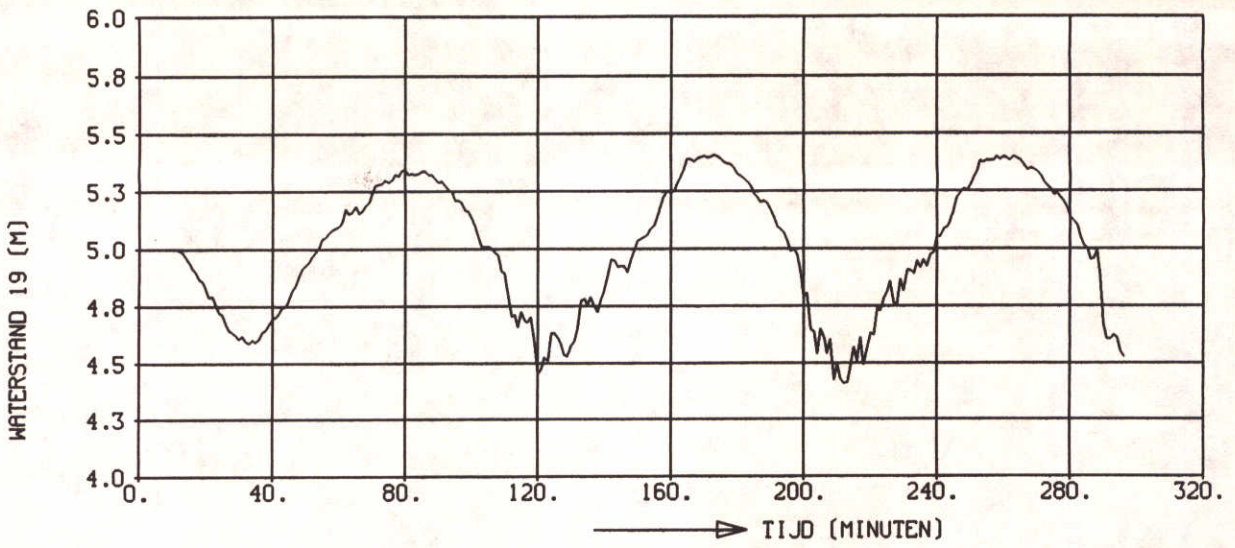
SEICHES EUROPOORT
 TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/17/91

OPC - om2

DELFT HYDRAULICS

FIG. 83



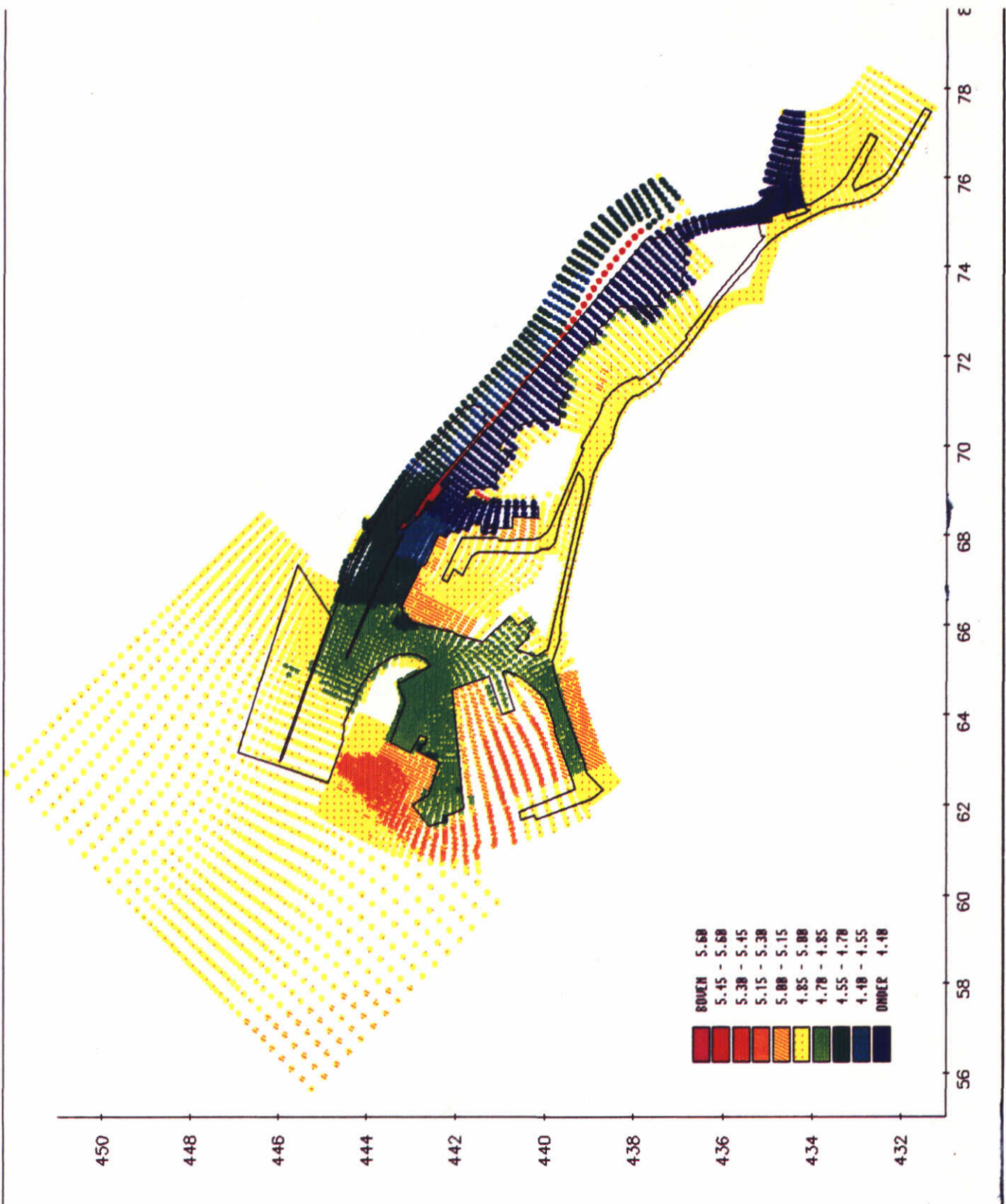
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19

06/17/91

OPC - om2

DELFT HYDRAULICS

FIG.84



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

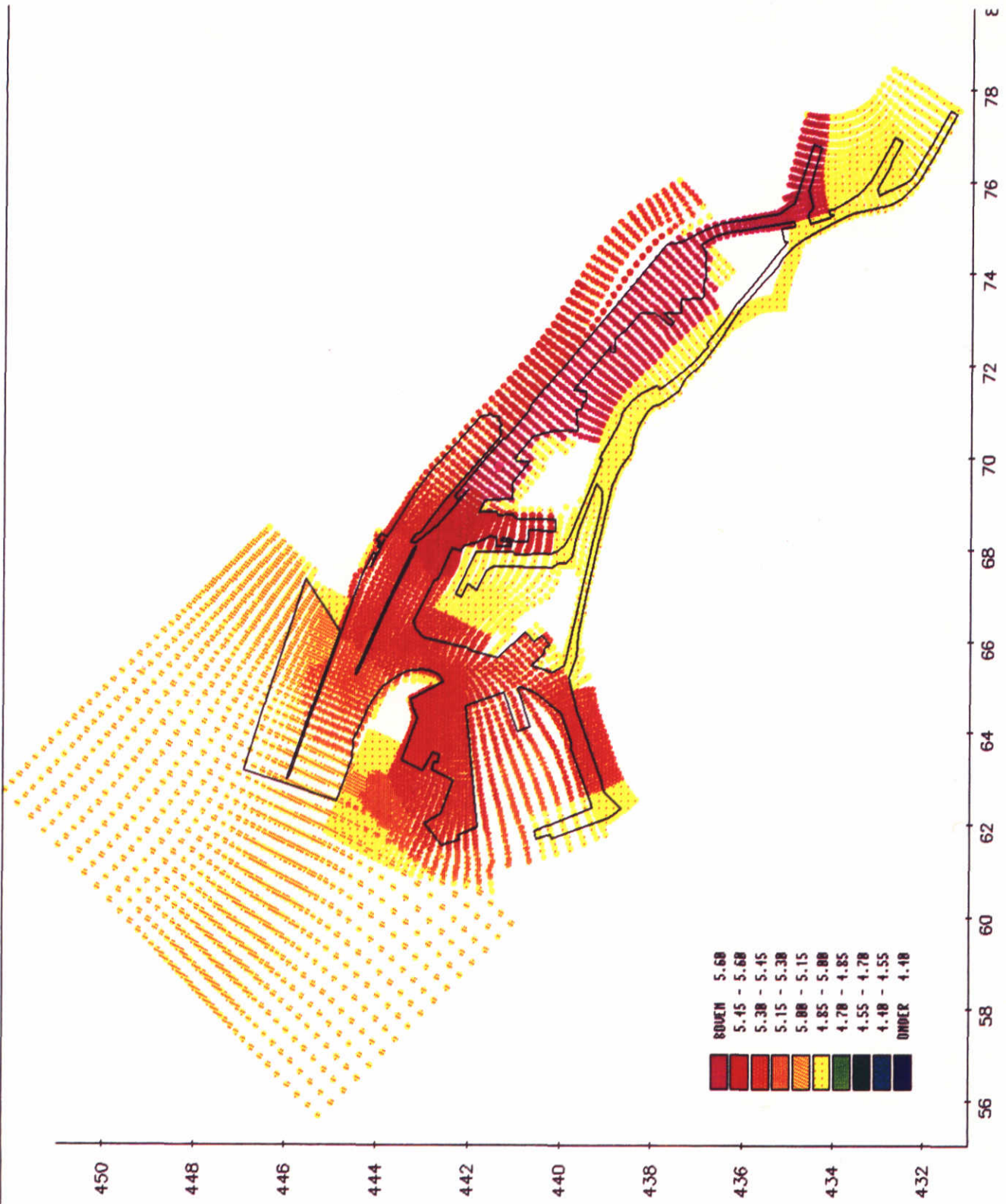
veld 1

OPC = om2

DELFT HYDRAULICS

Z-434

FIG. 85



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

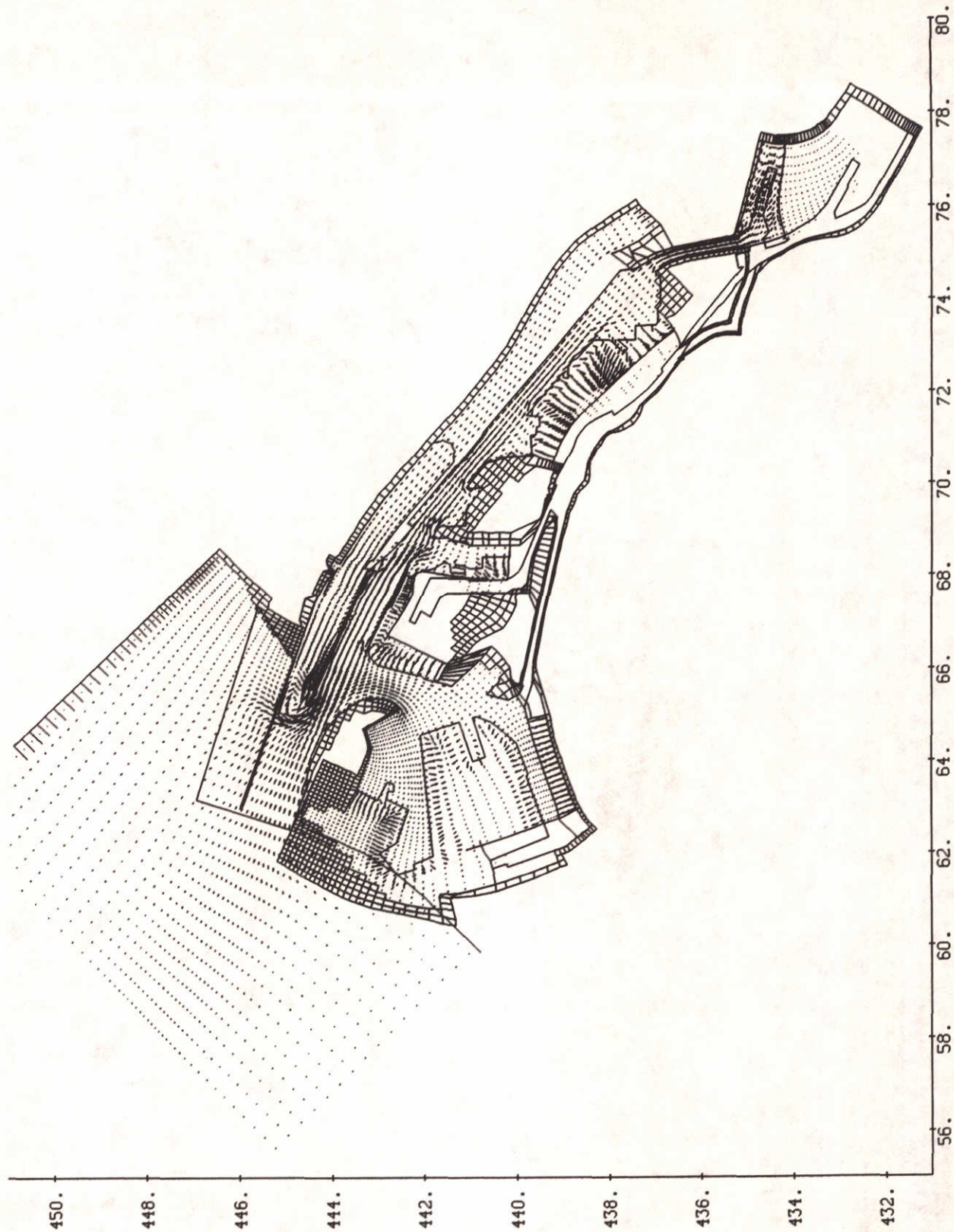
veld 4

DPC = om2

DELFT HYDRAULICS

Z-434

FIG. 86



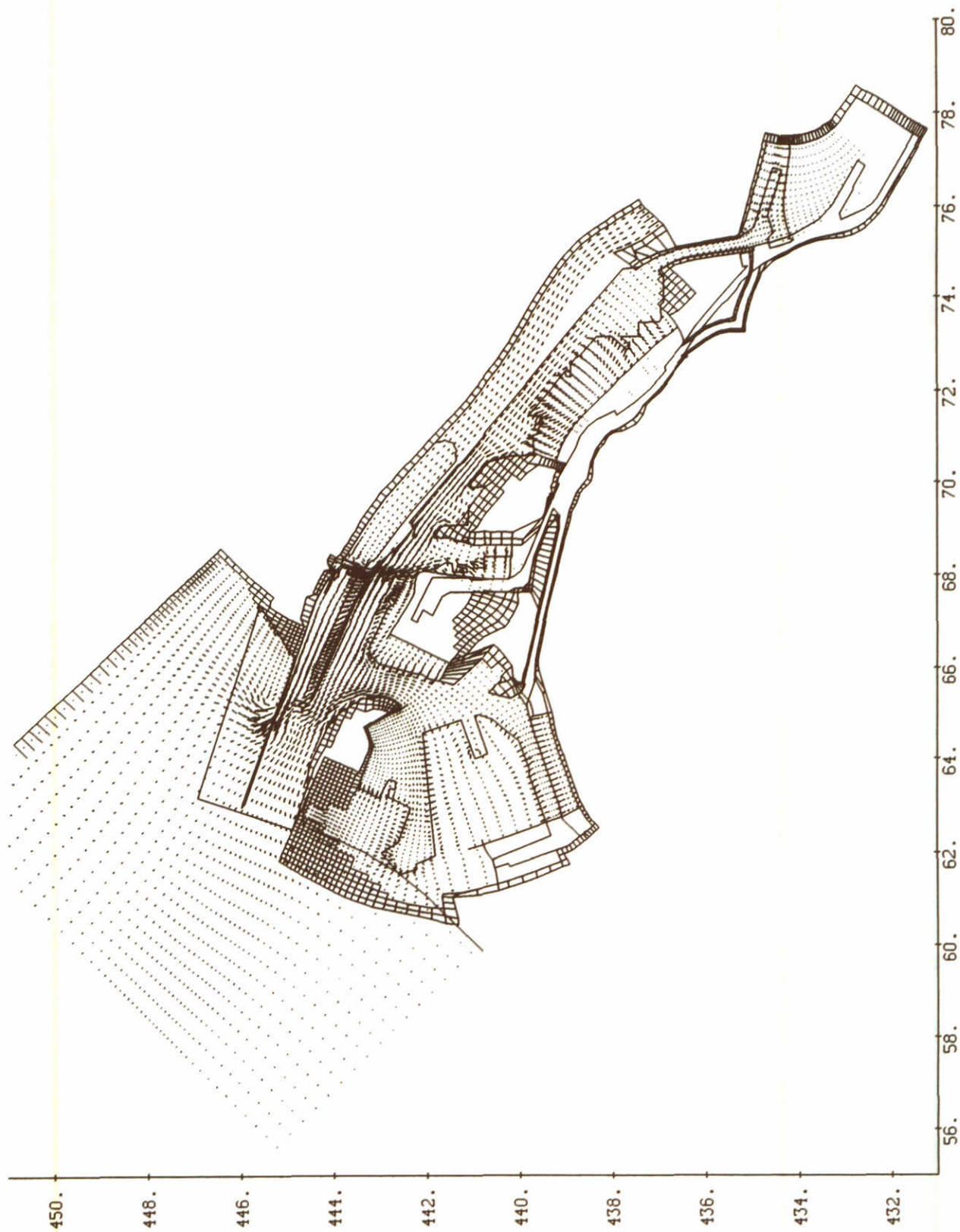
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/17/91 veld 3

OPC - om2

Z-434

FIG. 87



SEICHES EUROPOORT

VECTORVELD 1 CM = 4.0 M/S

DELFT HYDRAULICS

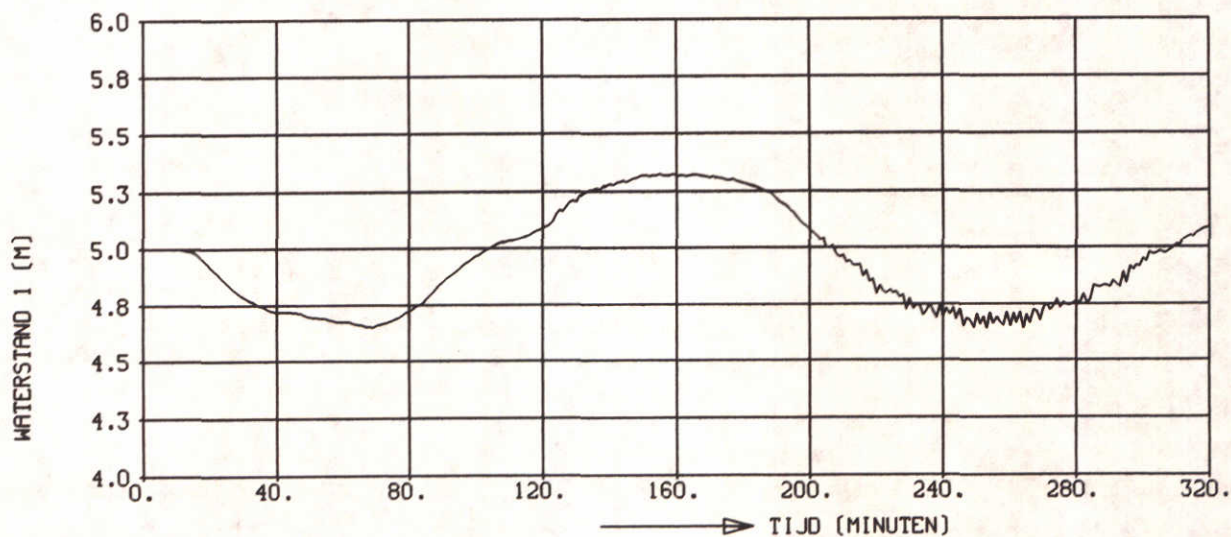
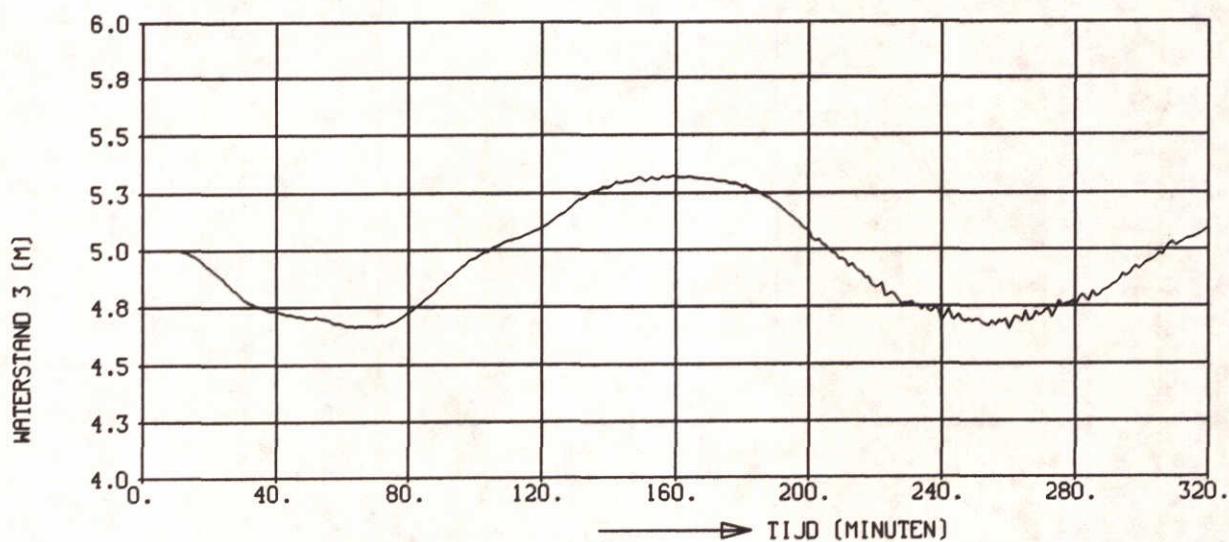
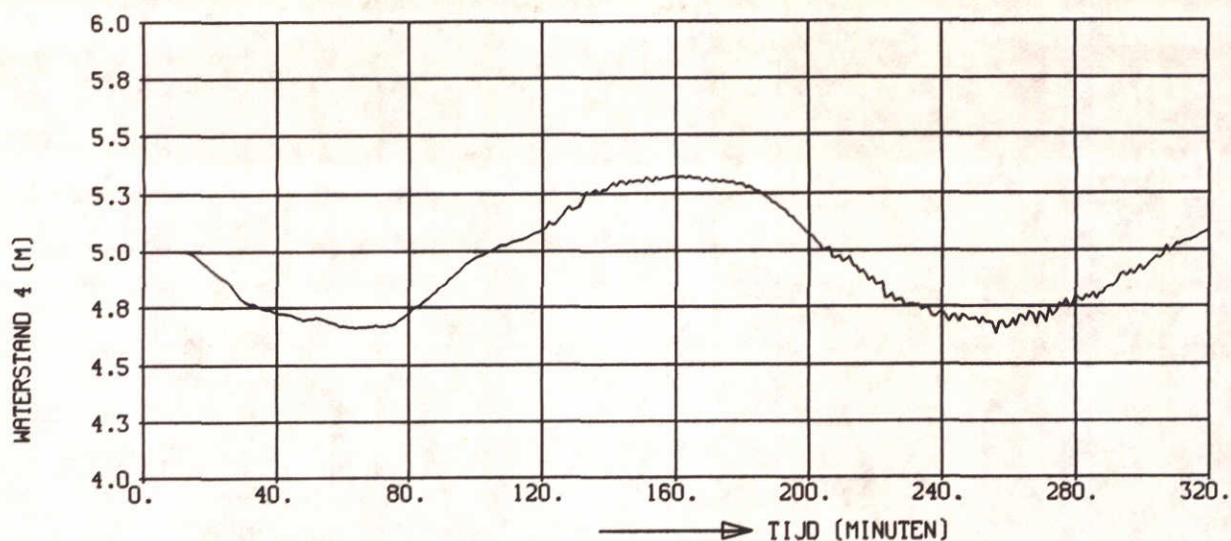
06/17/91

veld 5

OPC - om2

Z-434

FIG. 88



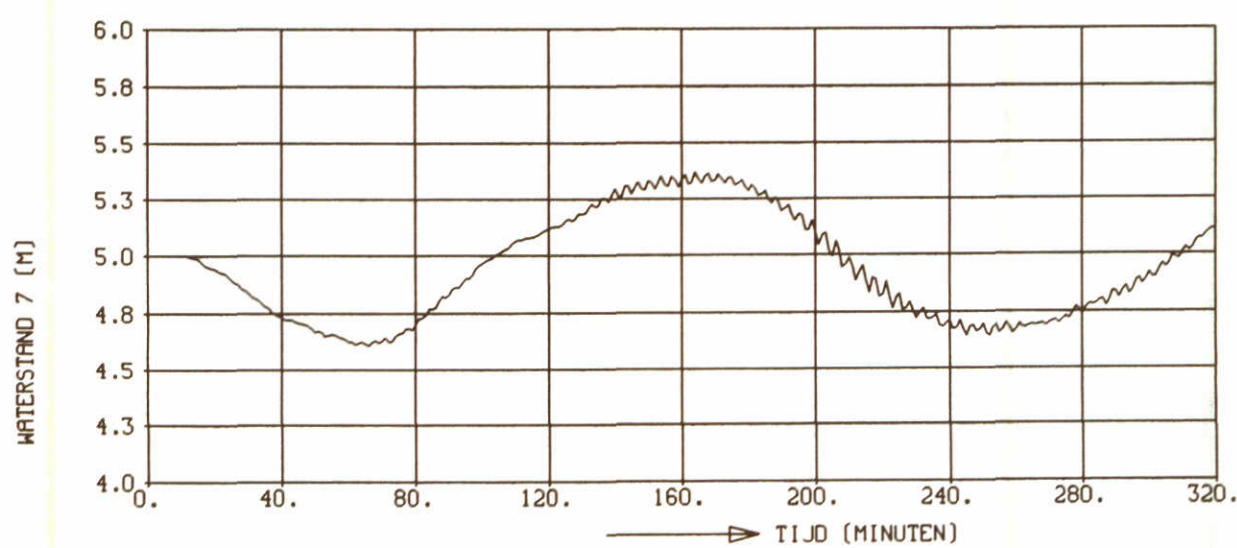
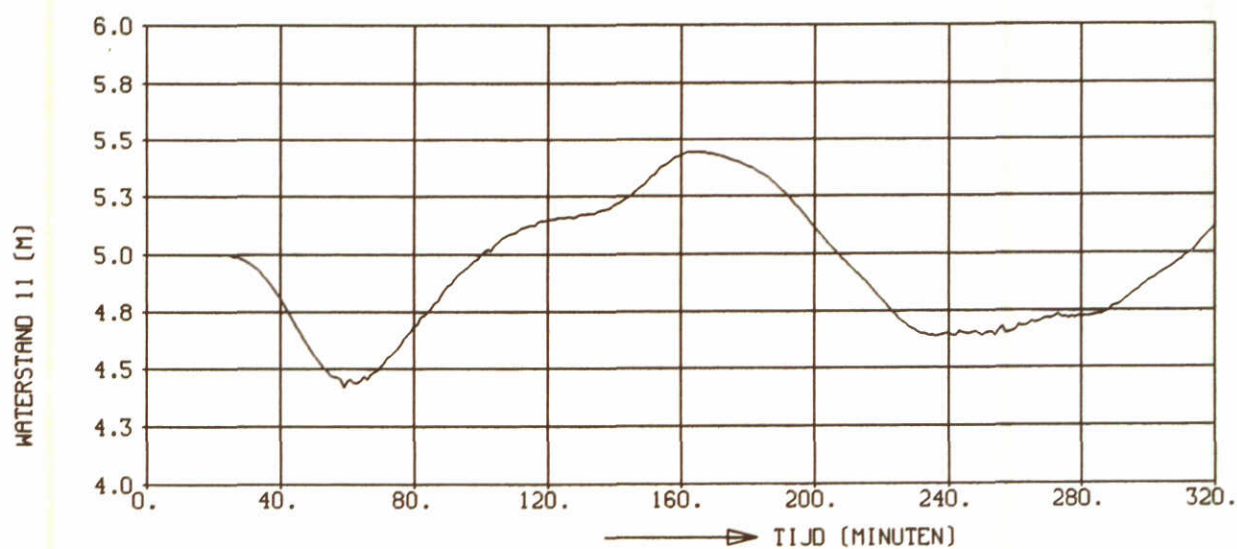
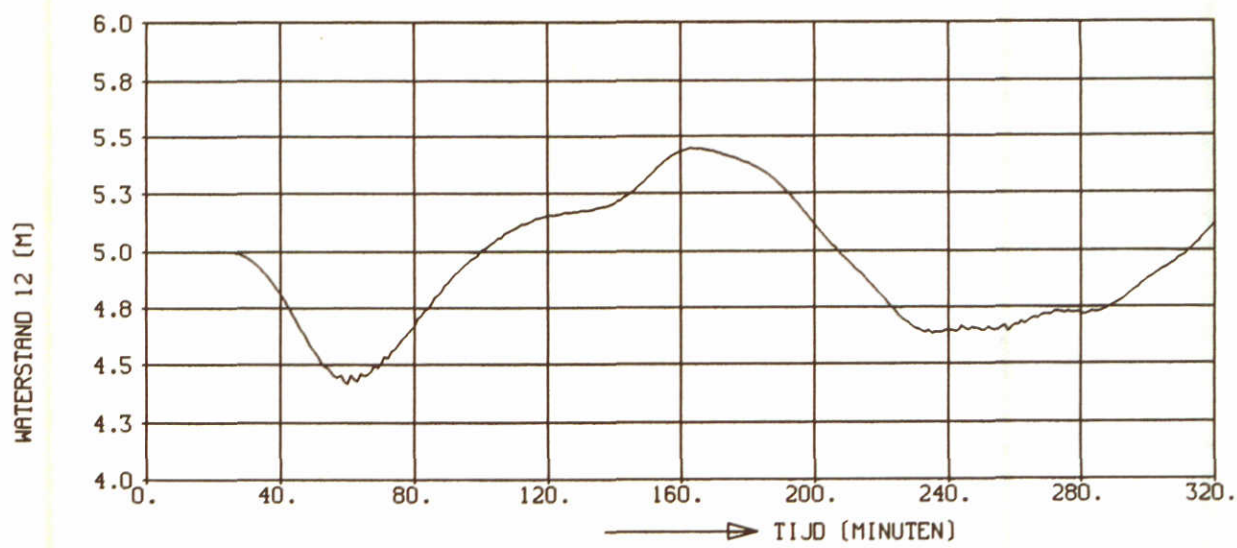
SEICHES EUROPOORT
TIJDREKSEN VAN WATERSTANDEN 1, 3, 4

06/17/91

OPC - om3

DELFT HYDRAULICS

FIG. 87



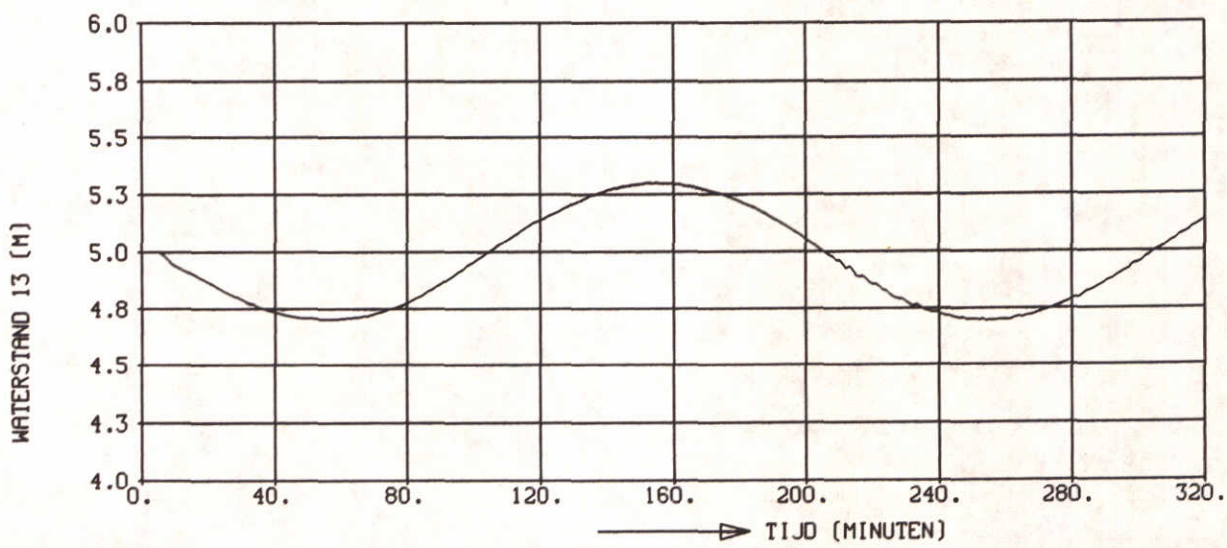
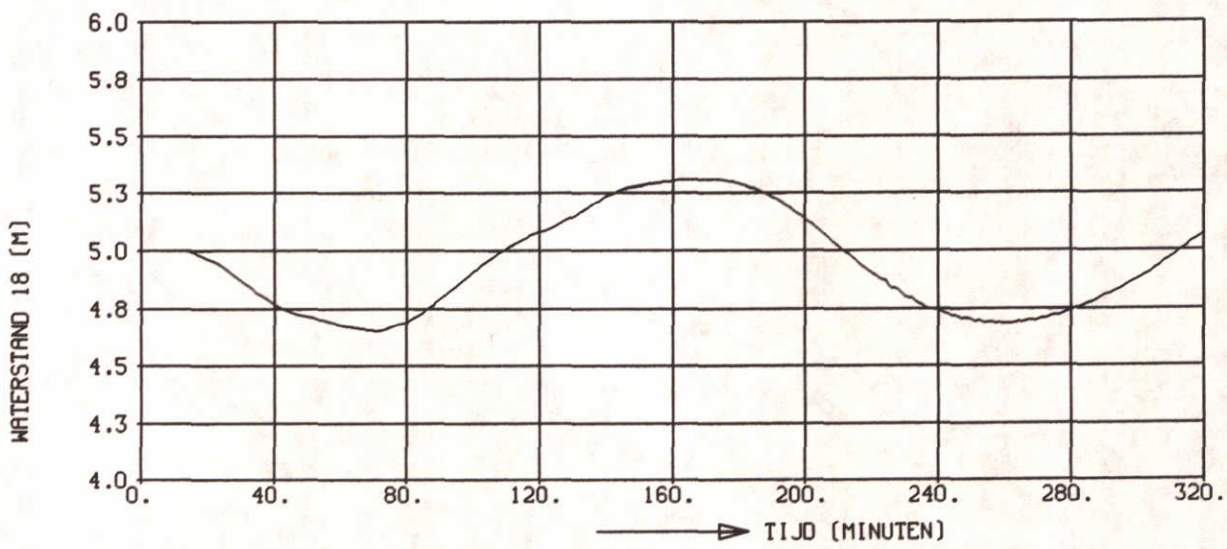
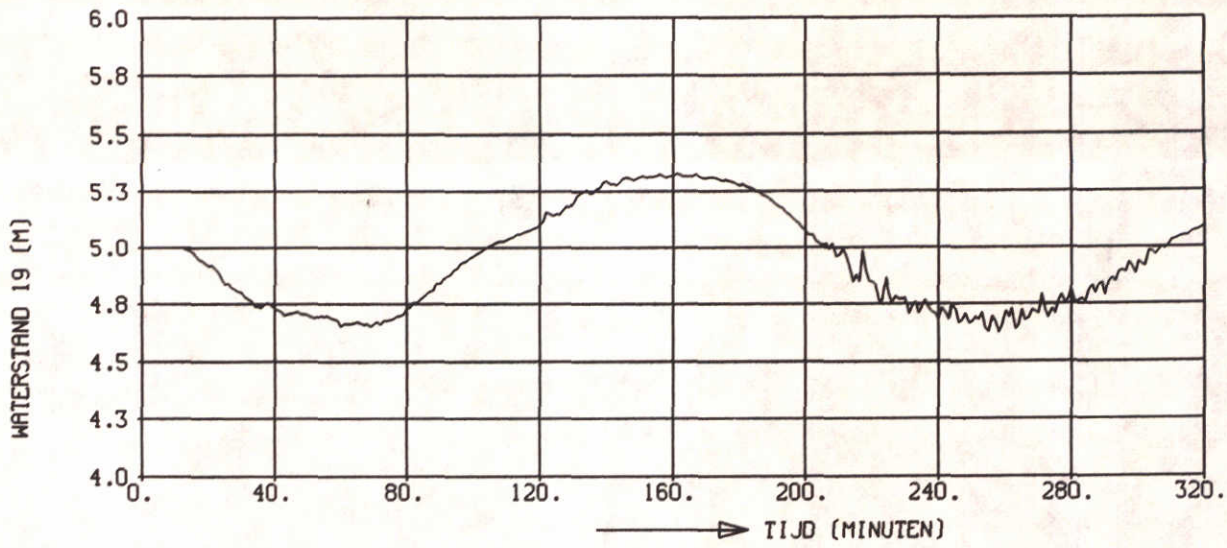
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

06/17/91

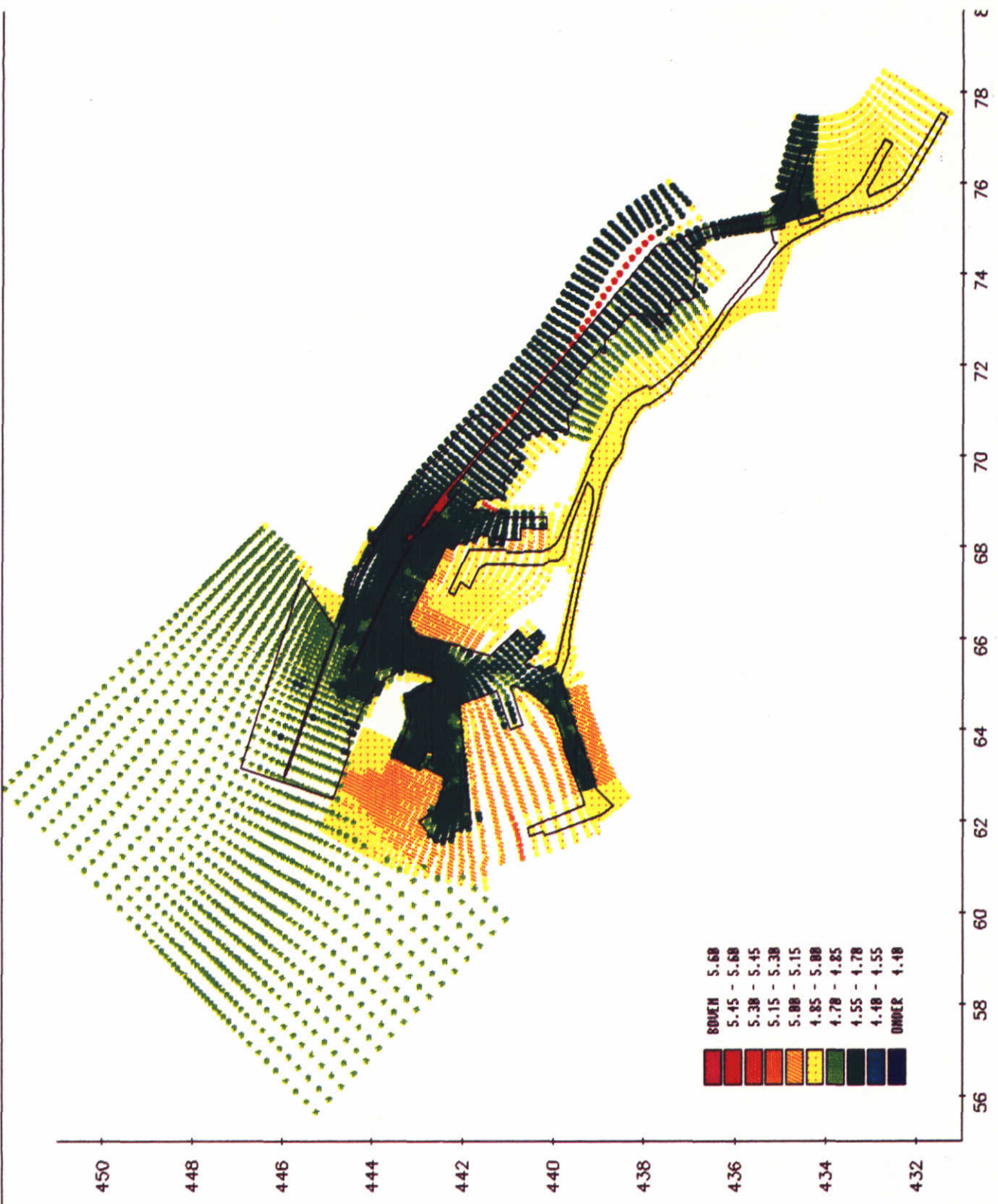
OPC - om3

DELFT HYDRAULICS

FIG.90



SEICHES EUROPOORT TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19	06/17/91	
	OPC - om3	
DELFT HYDRAULICS		FIG.91



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

06/17/91

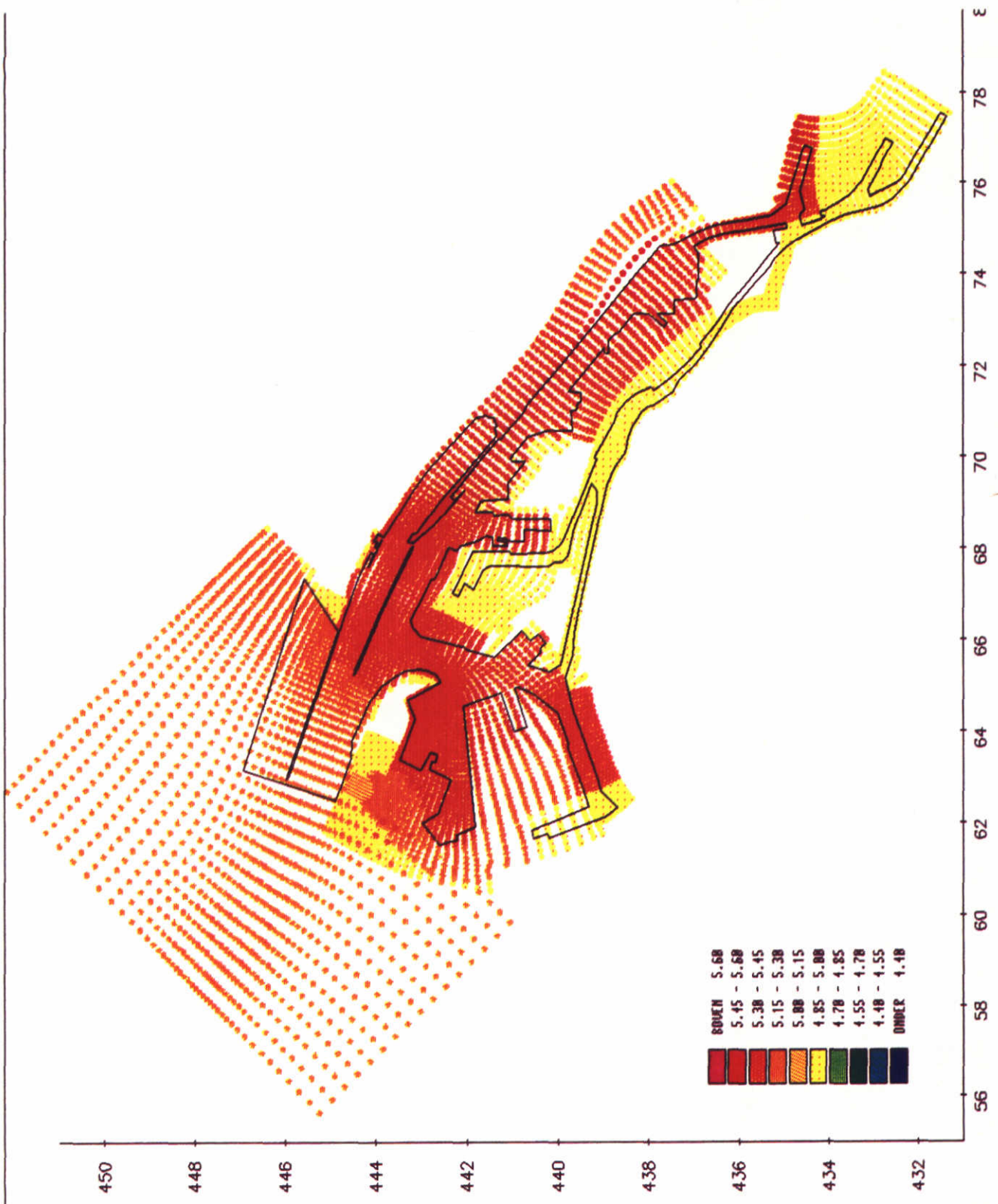
veld 5

OPC = om3

DELFT HYDRAULICS

Z-434

FIG. 92



SEICHES EUROPOORT
 ISOLIJNEN WATERSTAND

06/17/91

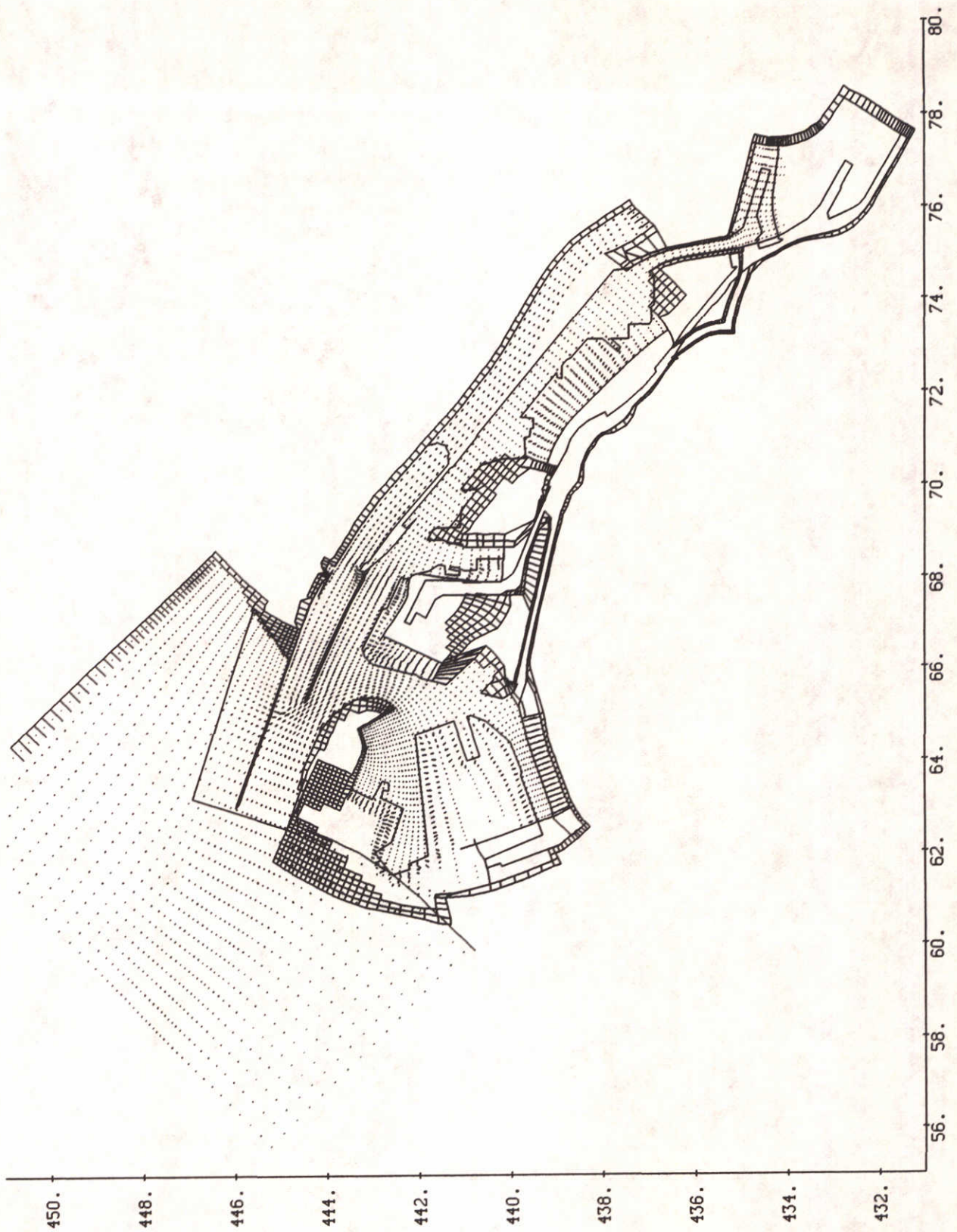
veld 2

OPC = om3

DELFT HYDRAULICS

Z-434

FIG. 93



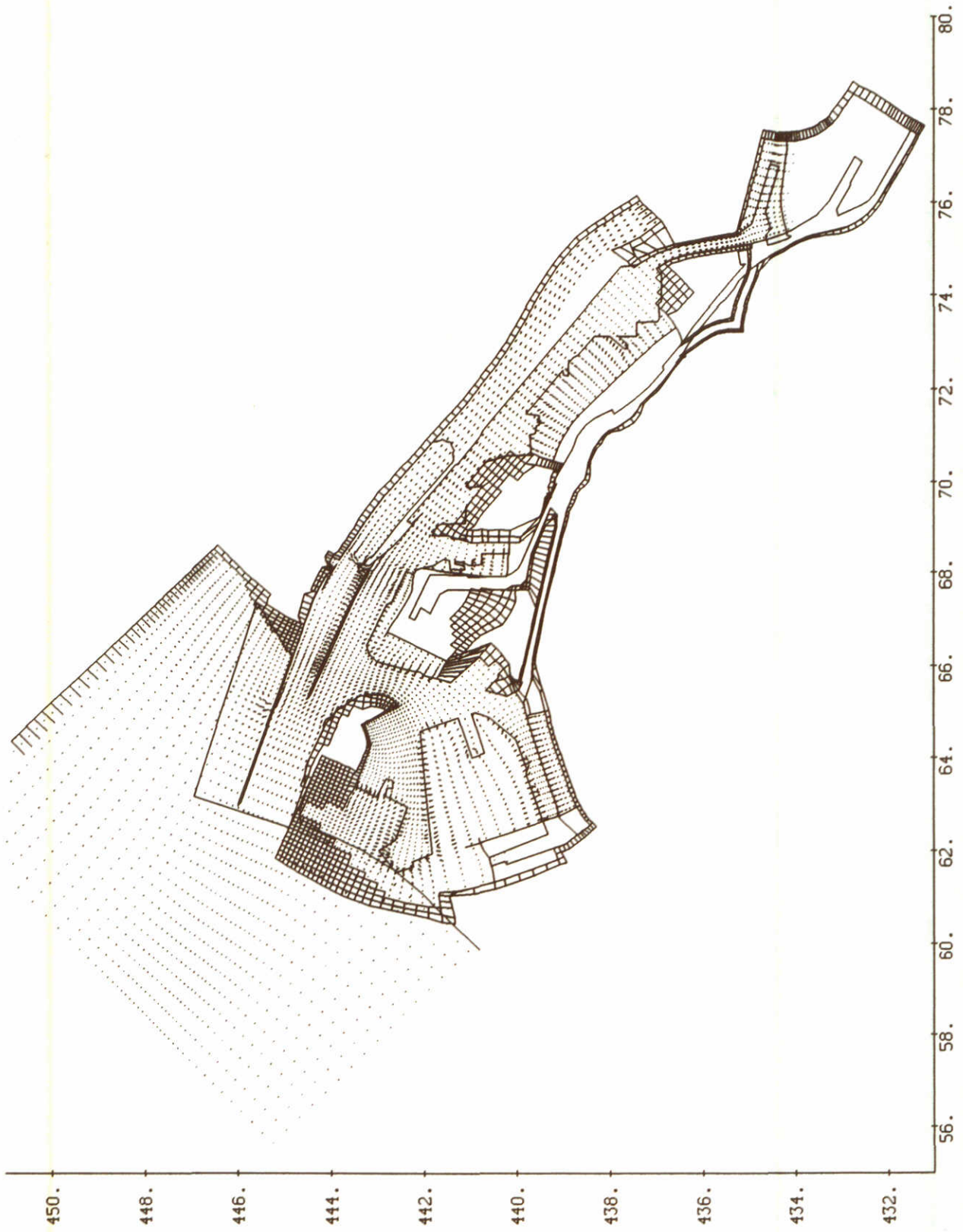
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/17/91 veld 1

OPC - om3

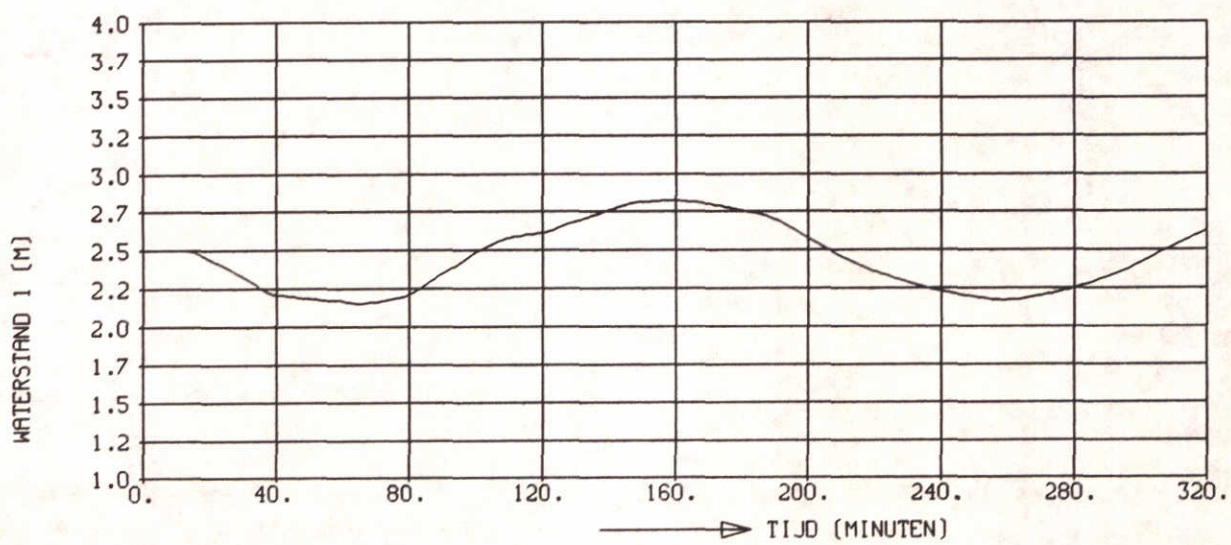
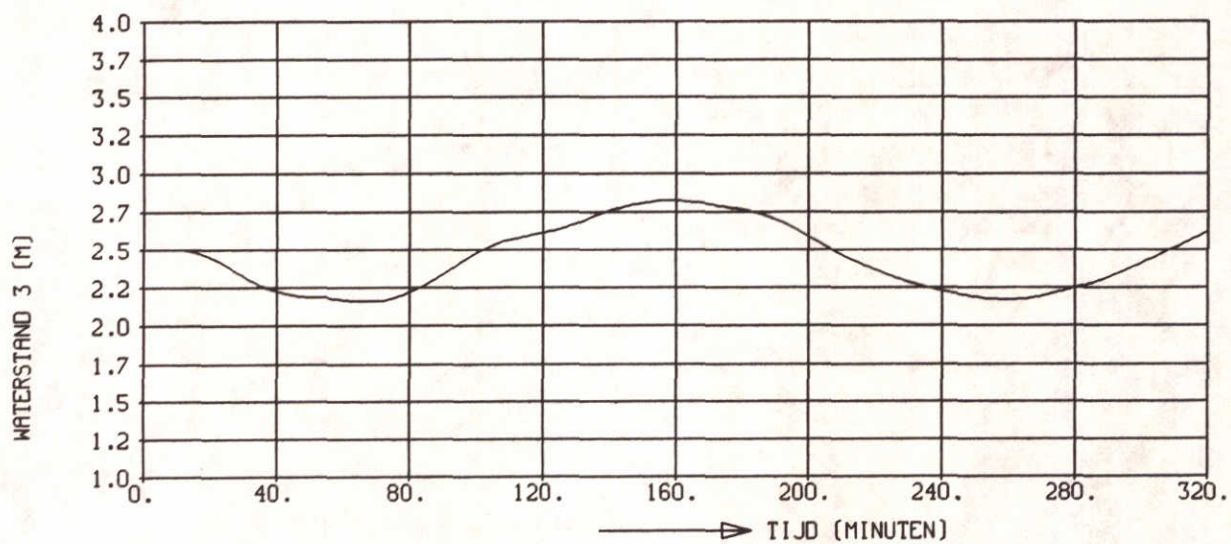
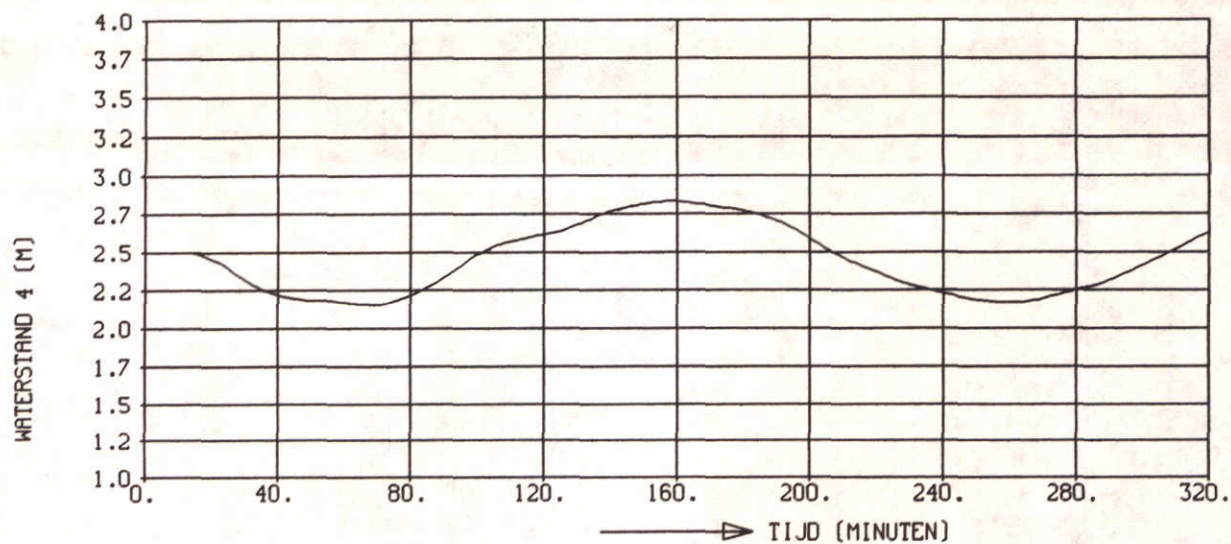
Z-434

FIG.94



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

06/17/91	veld 3
OPC - om3	
Z-434	FIG. 95



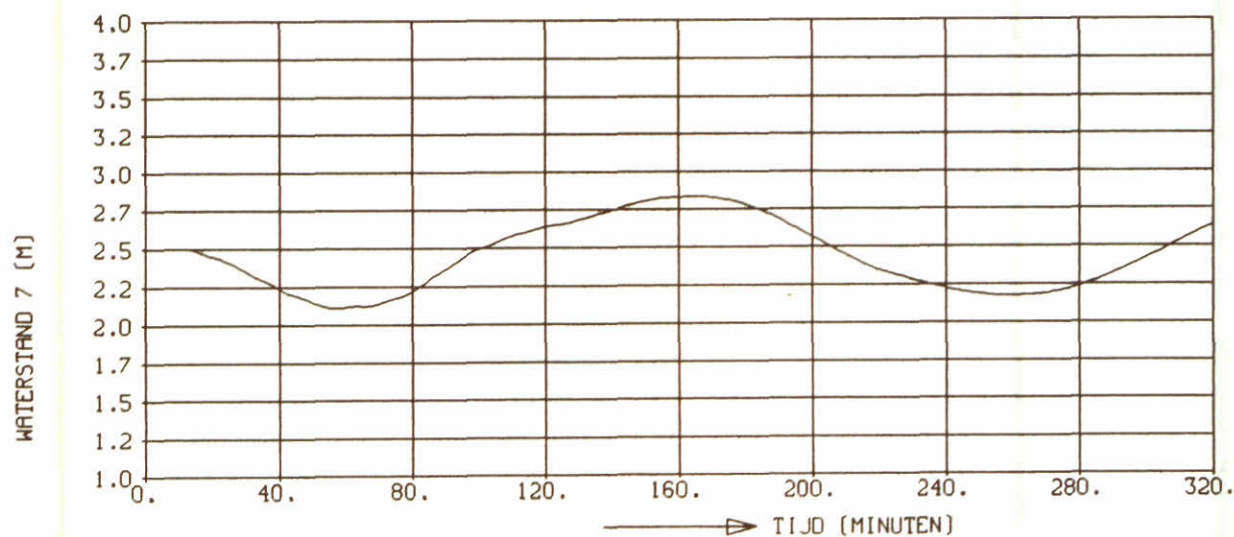
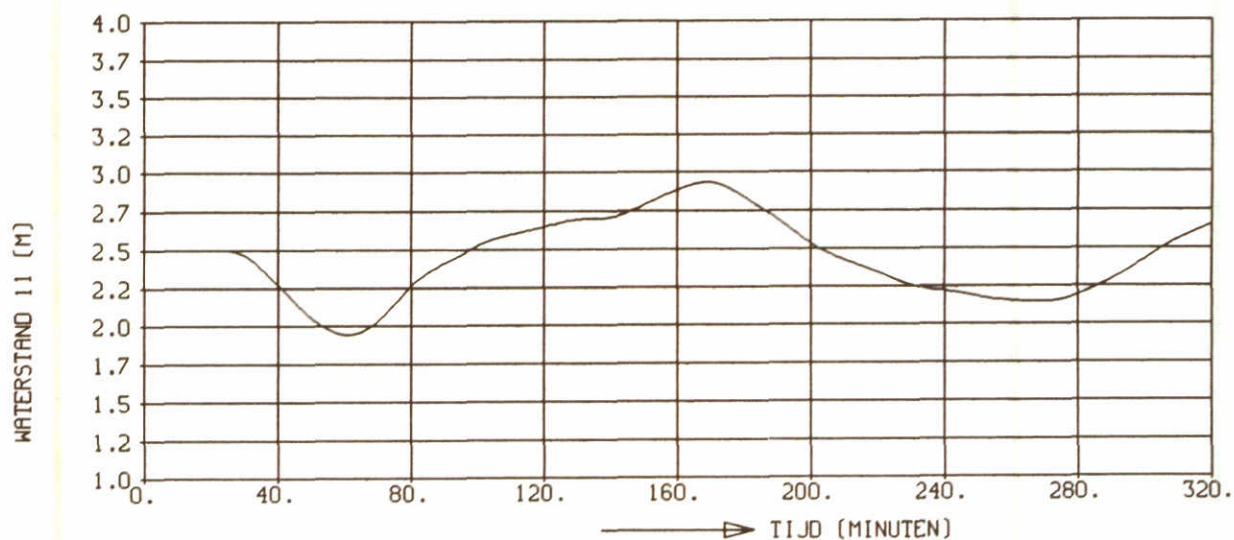
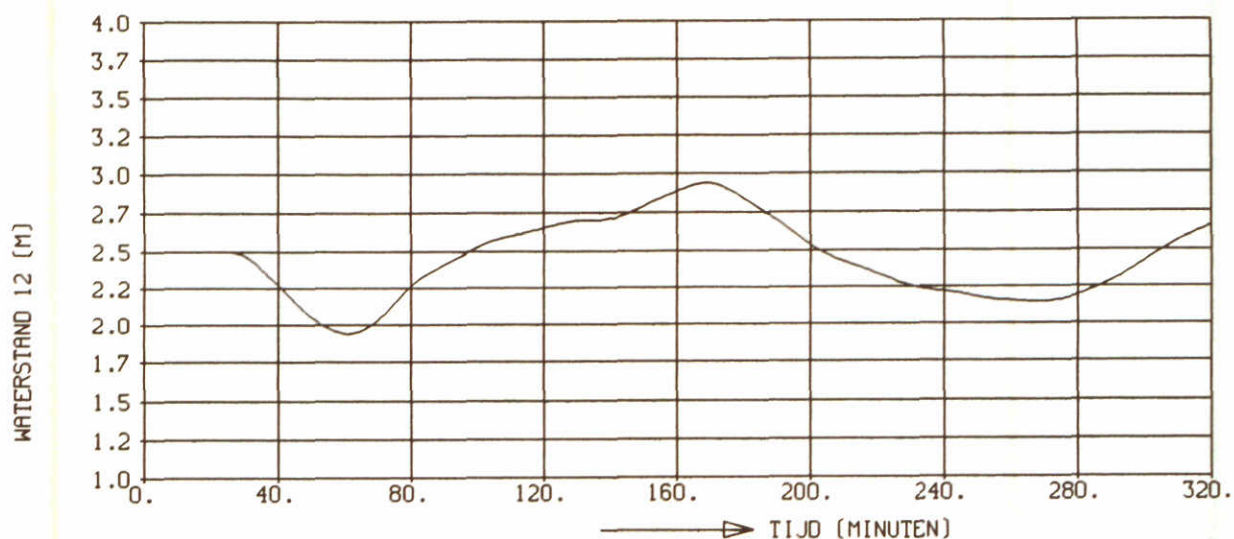
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4

07/01/91

OPC - dL1

DELFT HYDRAULICS

FIG.96



SEICHES EUROPOORT

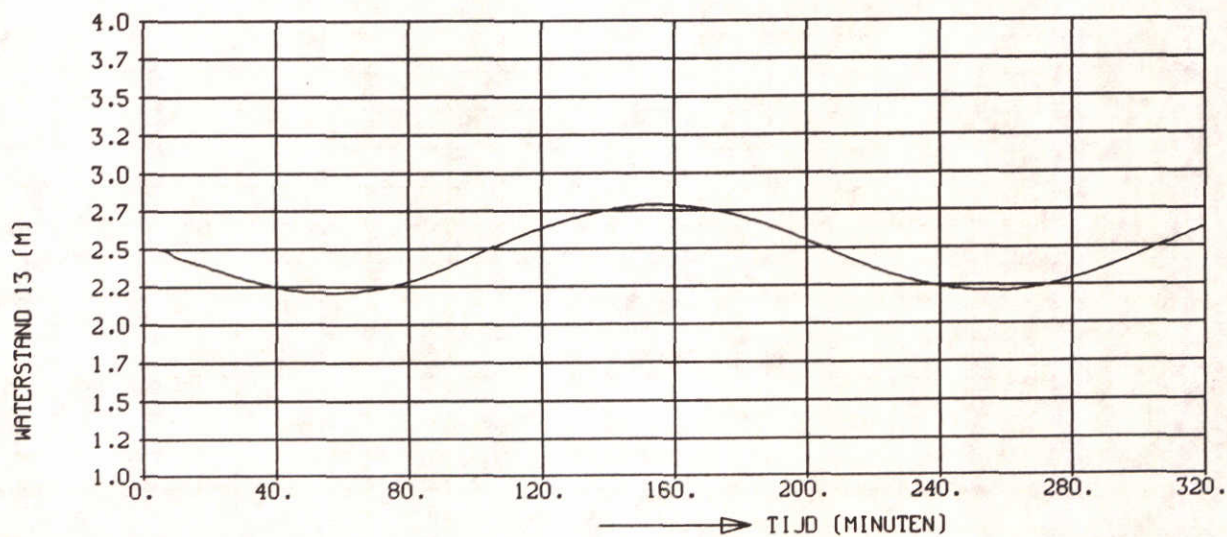
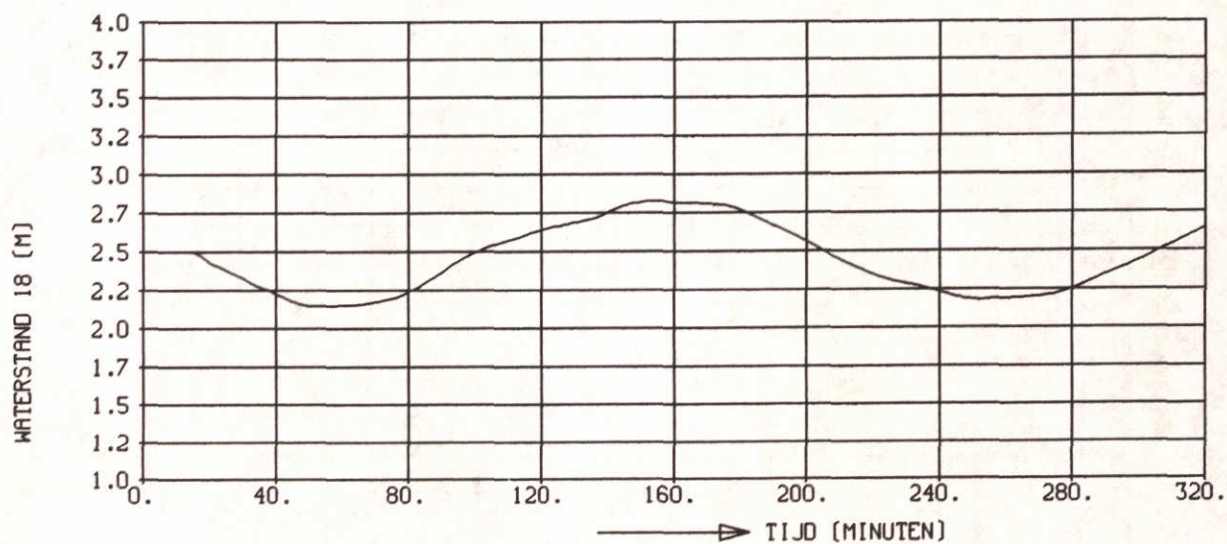
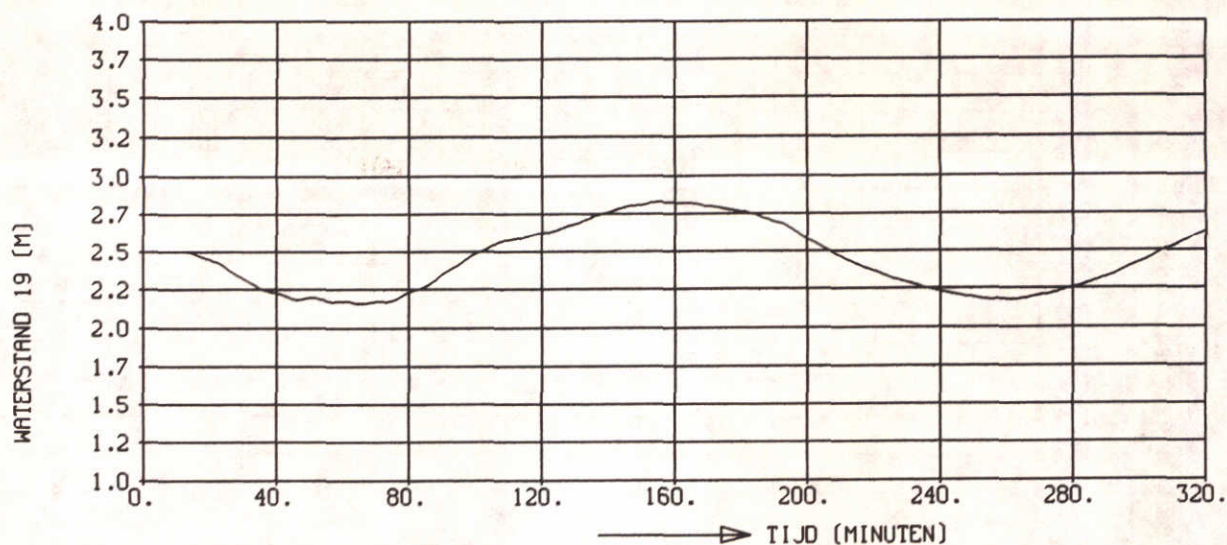
07/01/91

TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

OPC - d11

DELFT HYDRAULICS

FIG. 97



SEICHES EUROPOORT

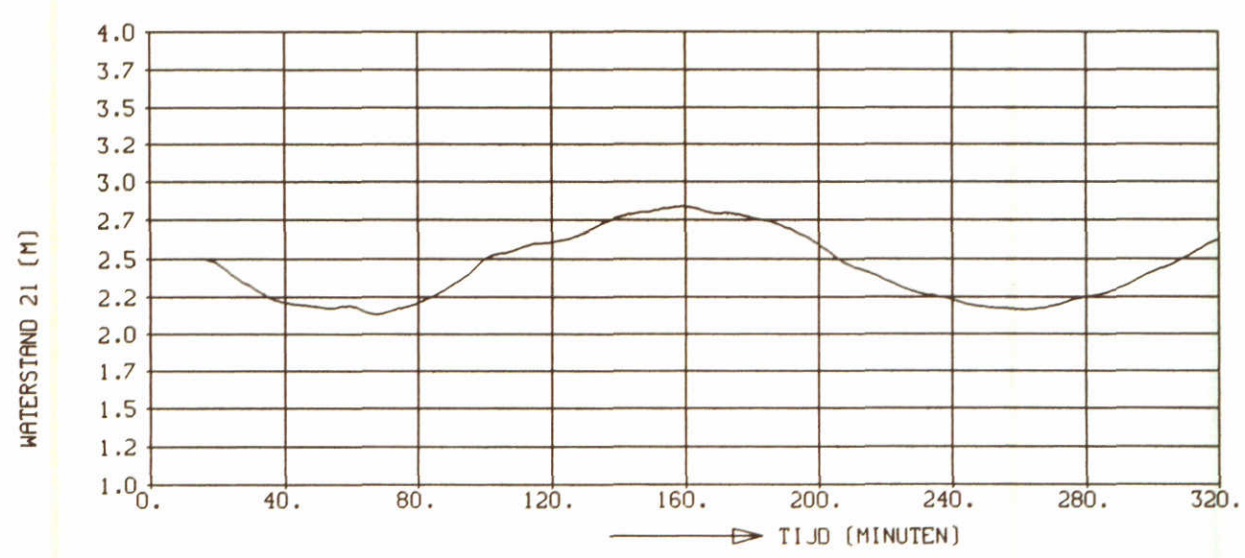
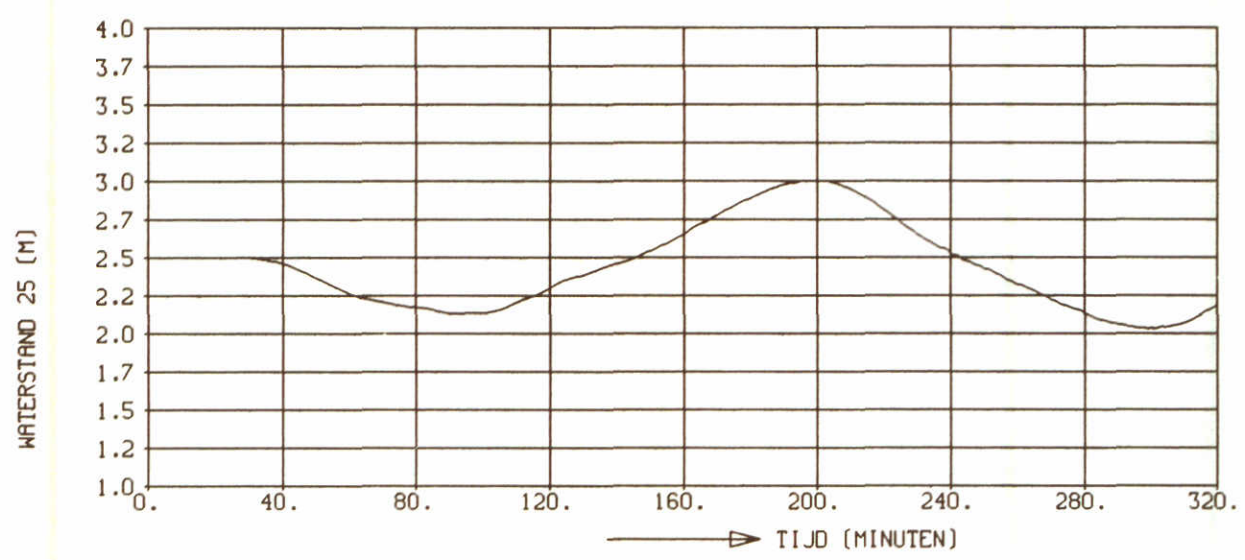
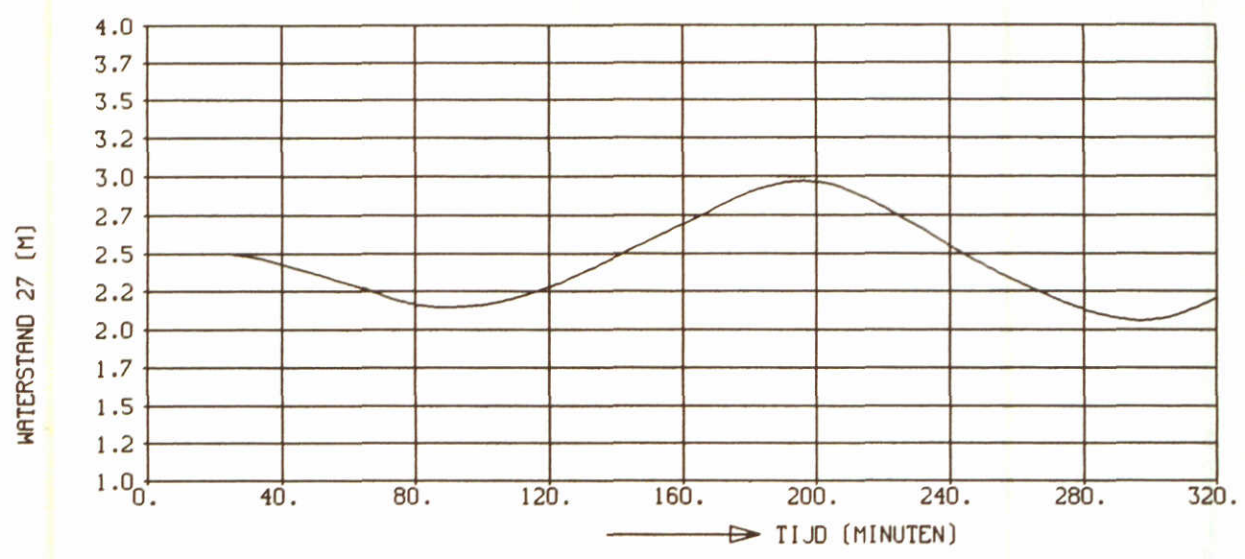
TIJDREKSEN VAN WATERSTANDEN 13, 18, 19

07/01/91

OPC - dl1

DELFT HYDRAULICS

FIG. 98



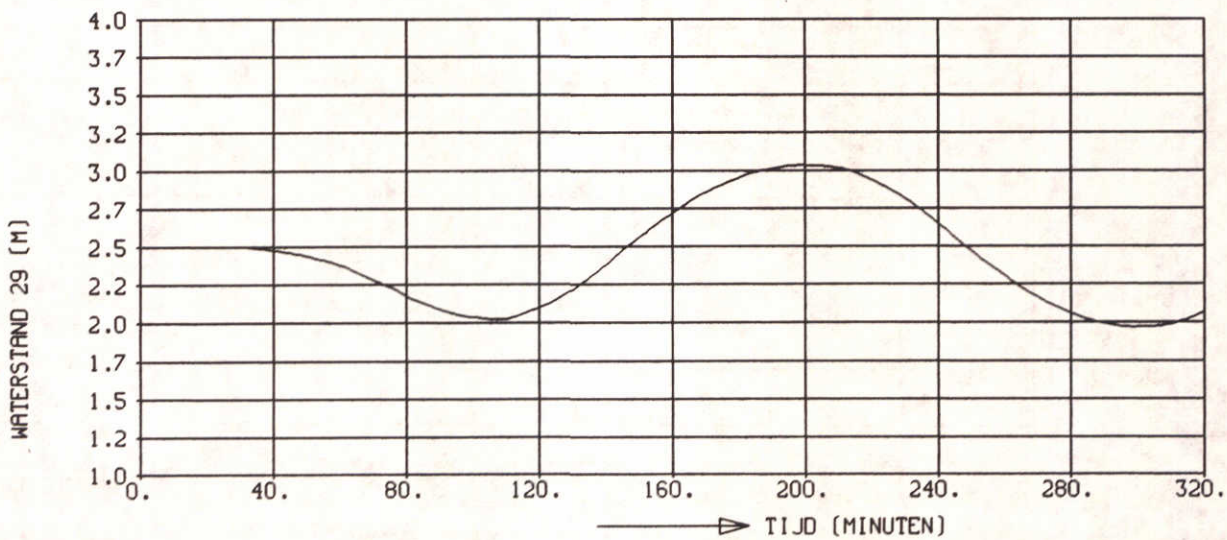
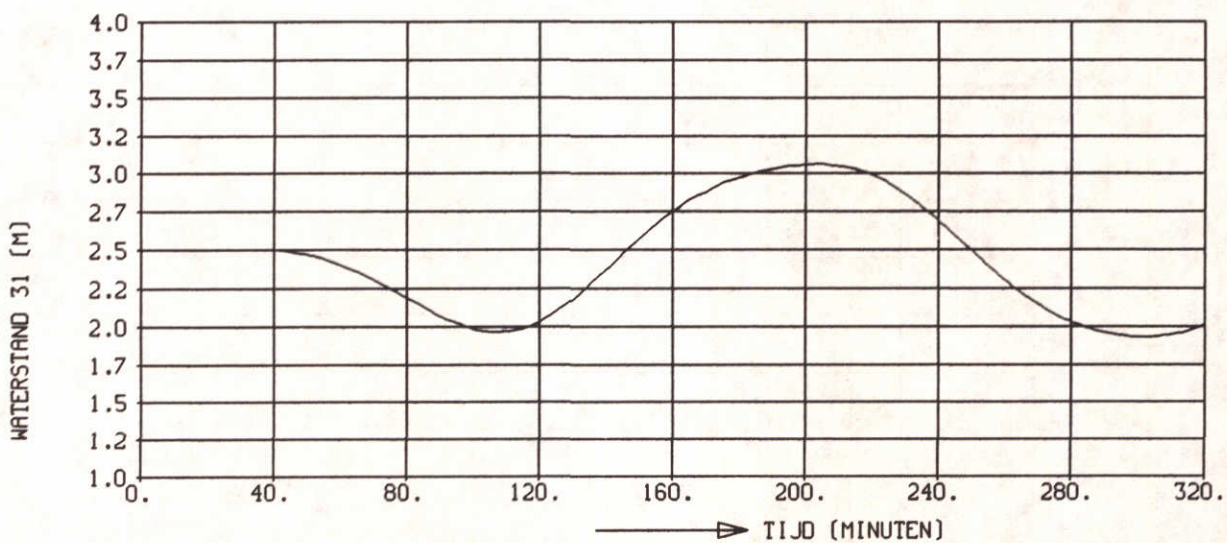
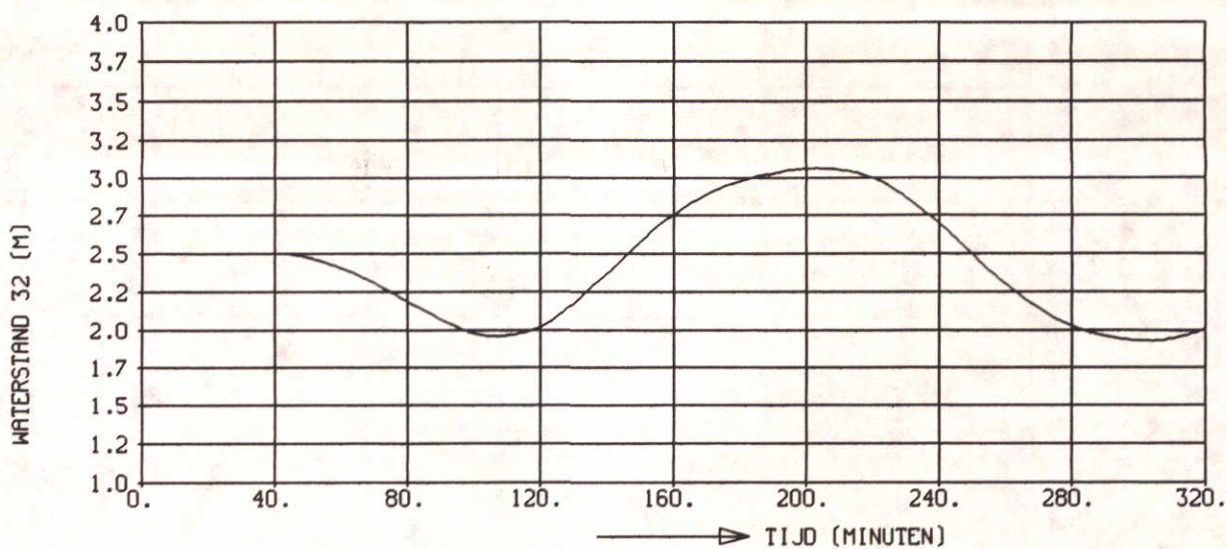
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 21, 25, 27

07/01/91

OPC - dL1

DELFT HYDRAULICS

FIG.99



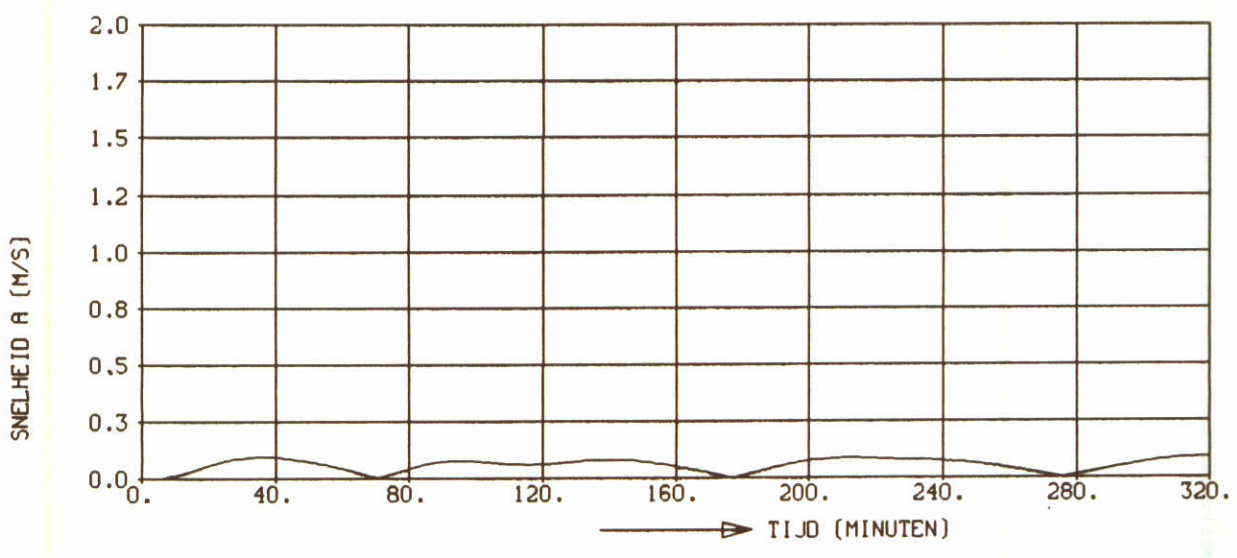
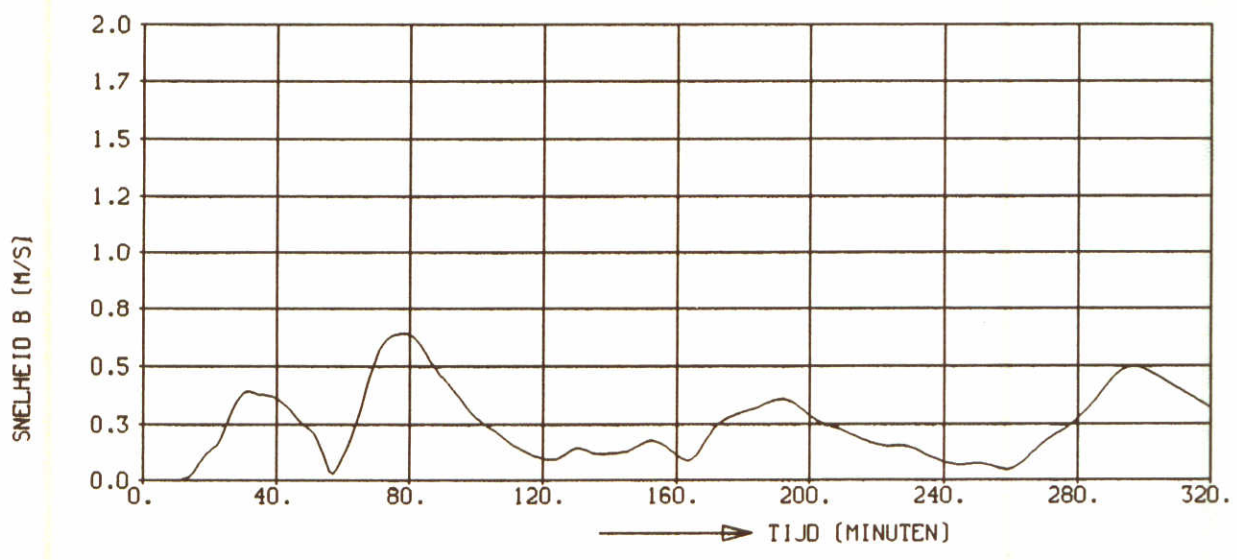
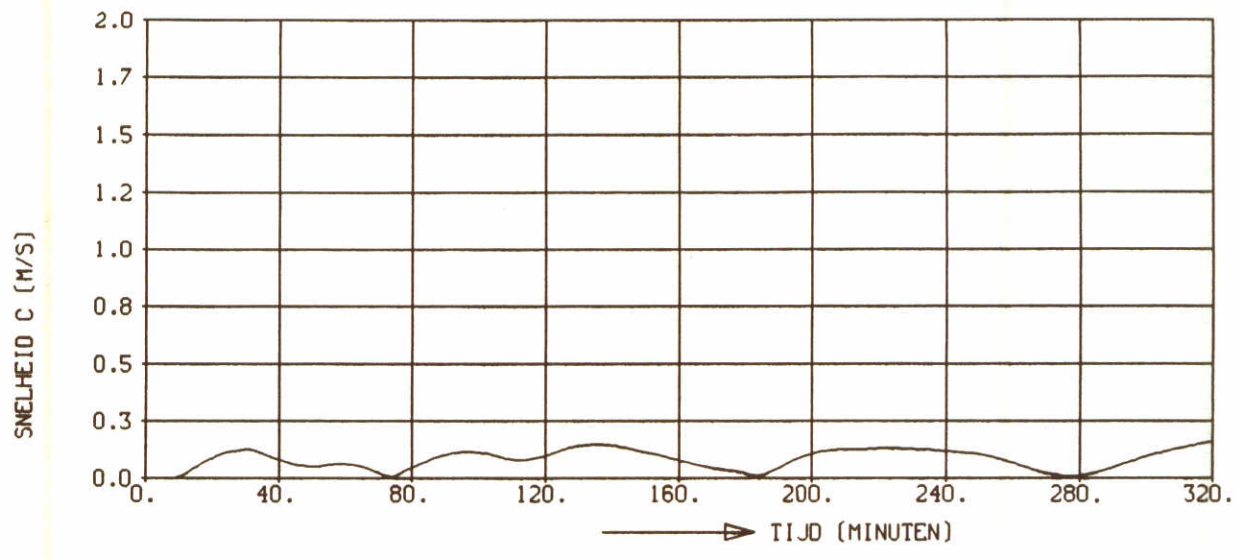
SEICHES EUROPOORT
TIJDREKSEN VAN WATERSTANDEN 29, 31, 32

07/01/91

OPC - dL1

DELFT HYDRAULICS

FIG.100



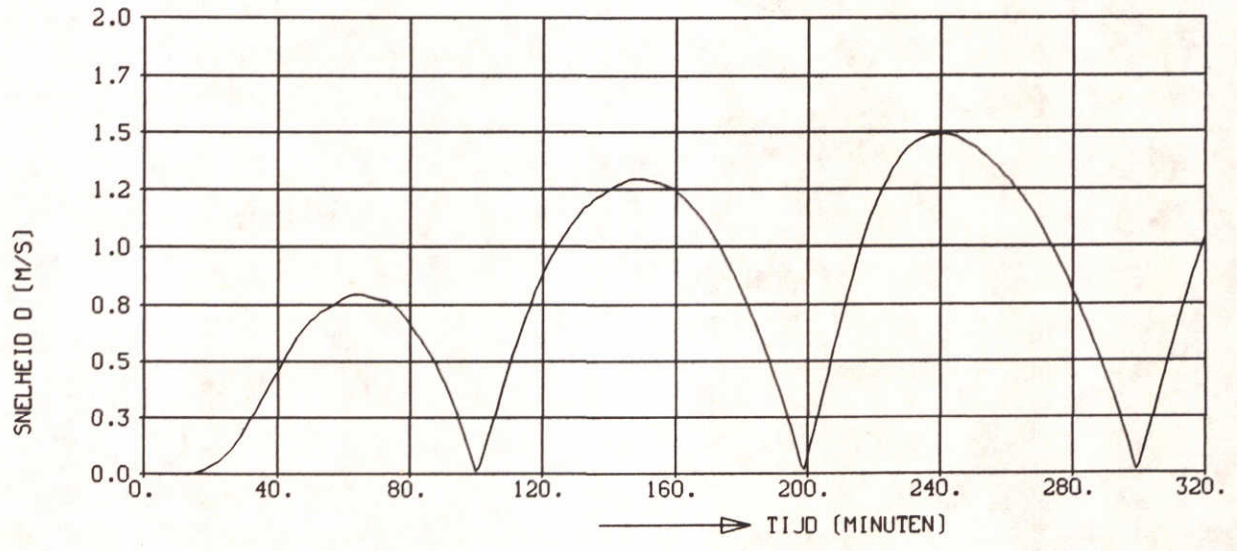
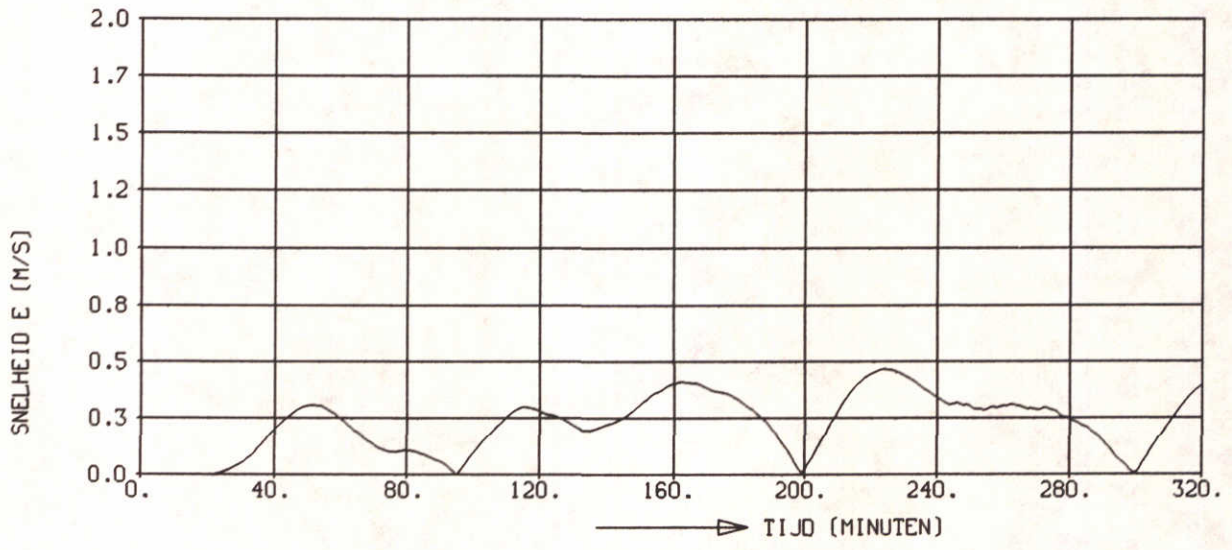
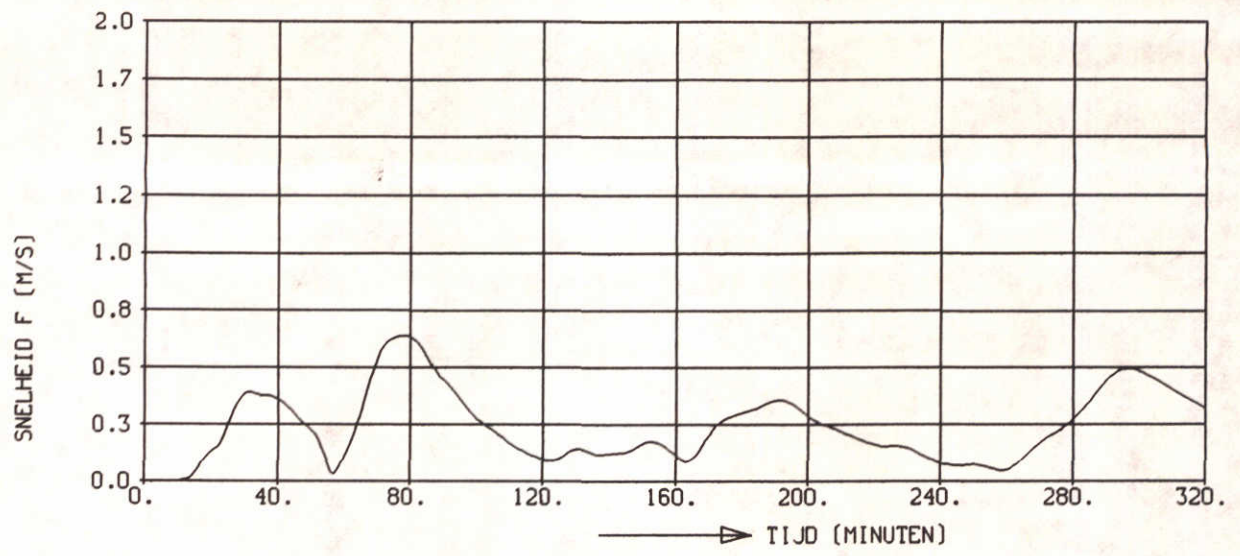
SEICHES EUROPOORT
 TIJDREEKSEN VAN SNELHEDEN A, B, C

02-07-91

OPC - DL1

DELFT HYDRAULICS

FIG.101



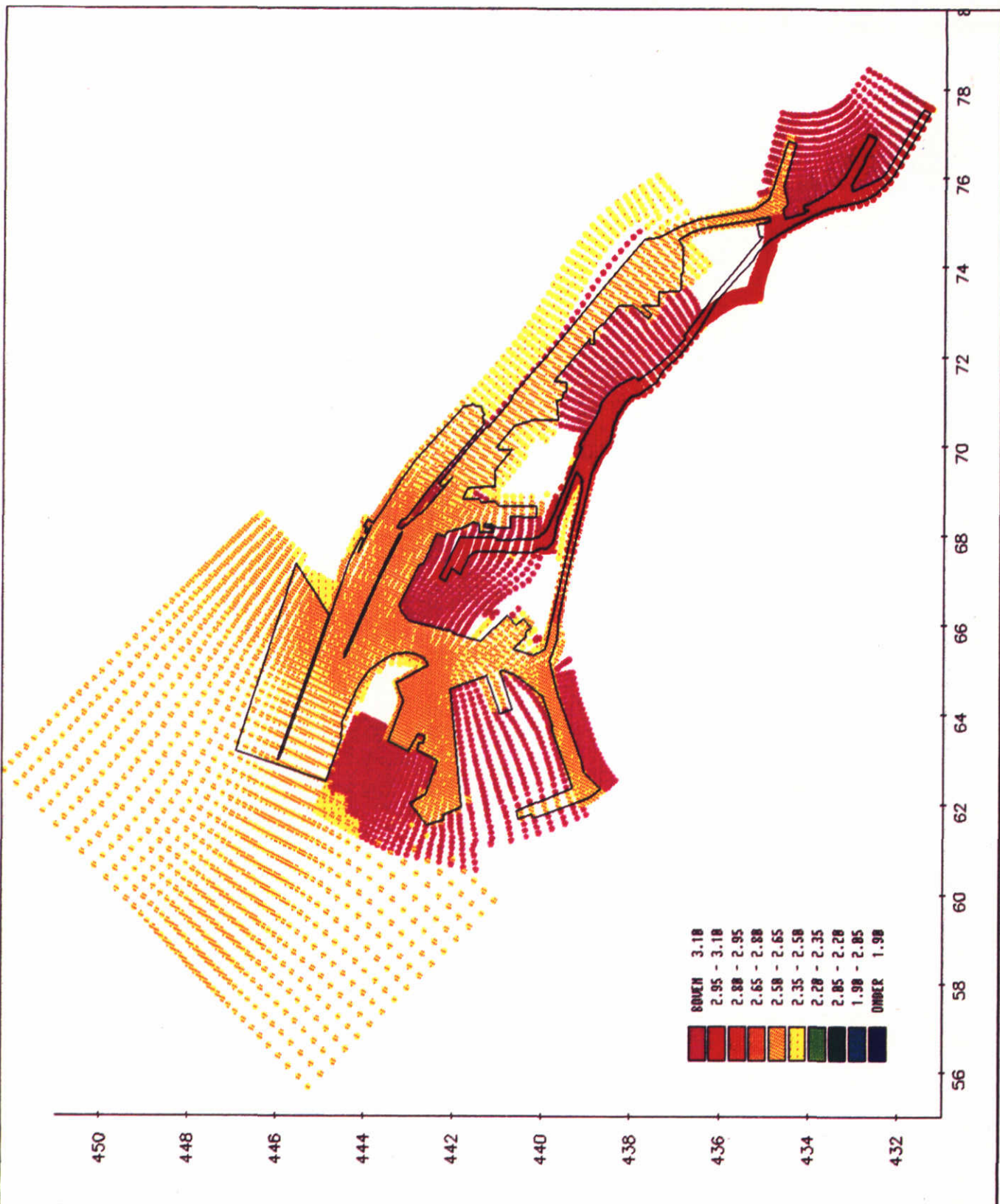
SEICHES EUROPOORT
TIJDREEKSEN VAN SNELHEDEN D, E, F

02-07-91

OPC - DL1

DELFT HYDRAULICS

FIG.102



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

07/02/91

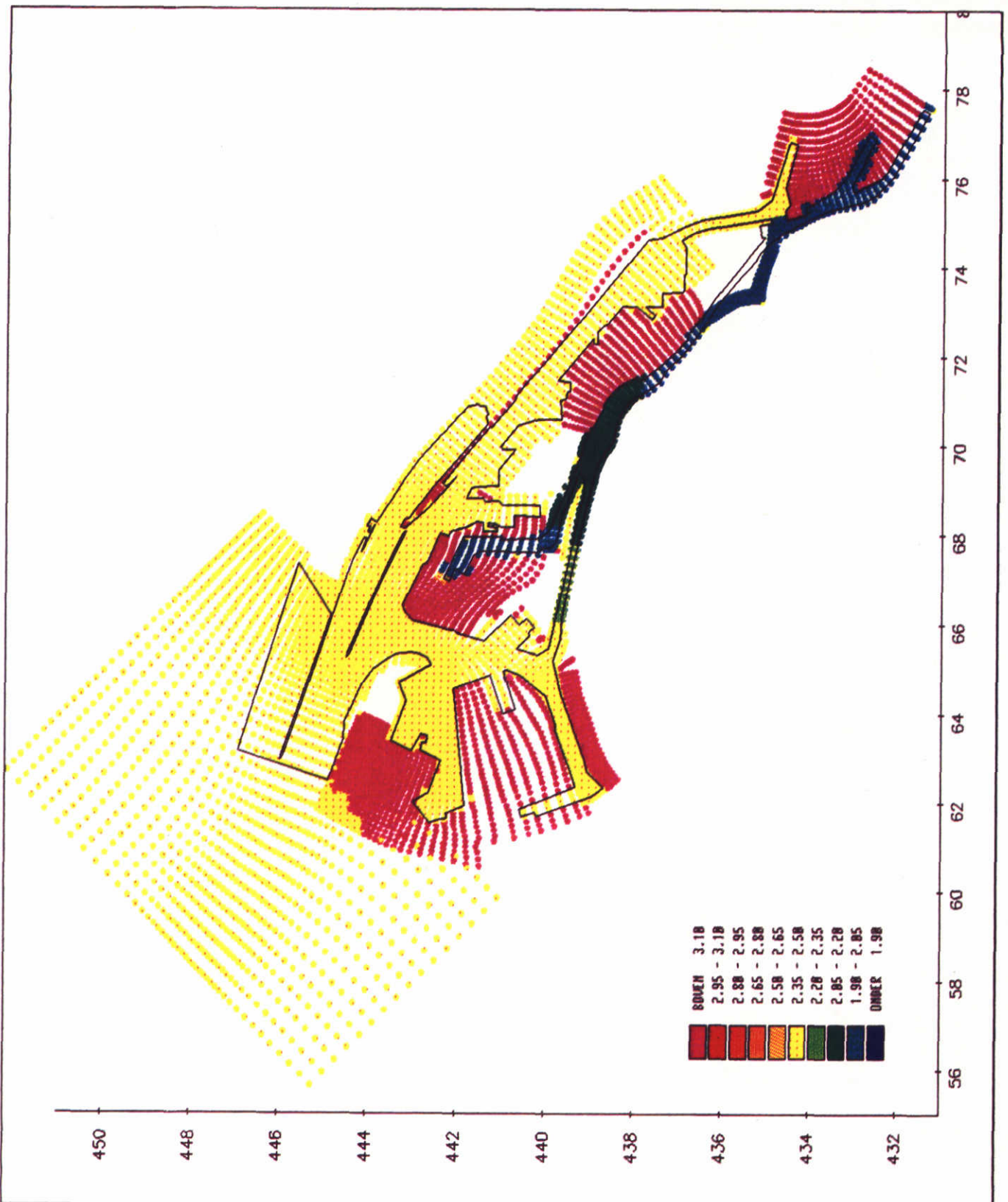
veld 3

DPC = d11

DELFT HYDRAULICS

Z-434

FIG. 103



SEICHES, EUROPOORT
ISOLIJNEN WATERSTAND

07/02/91

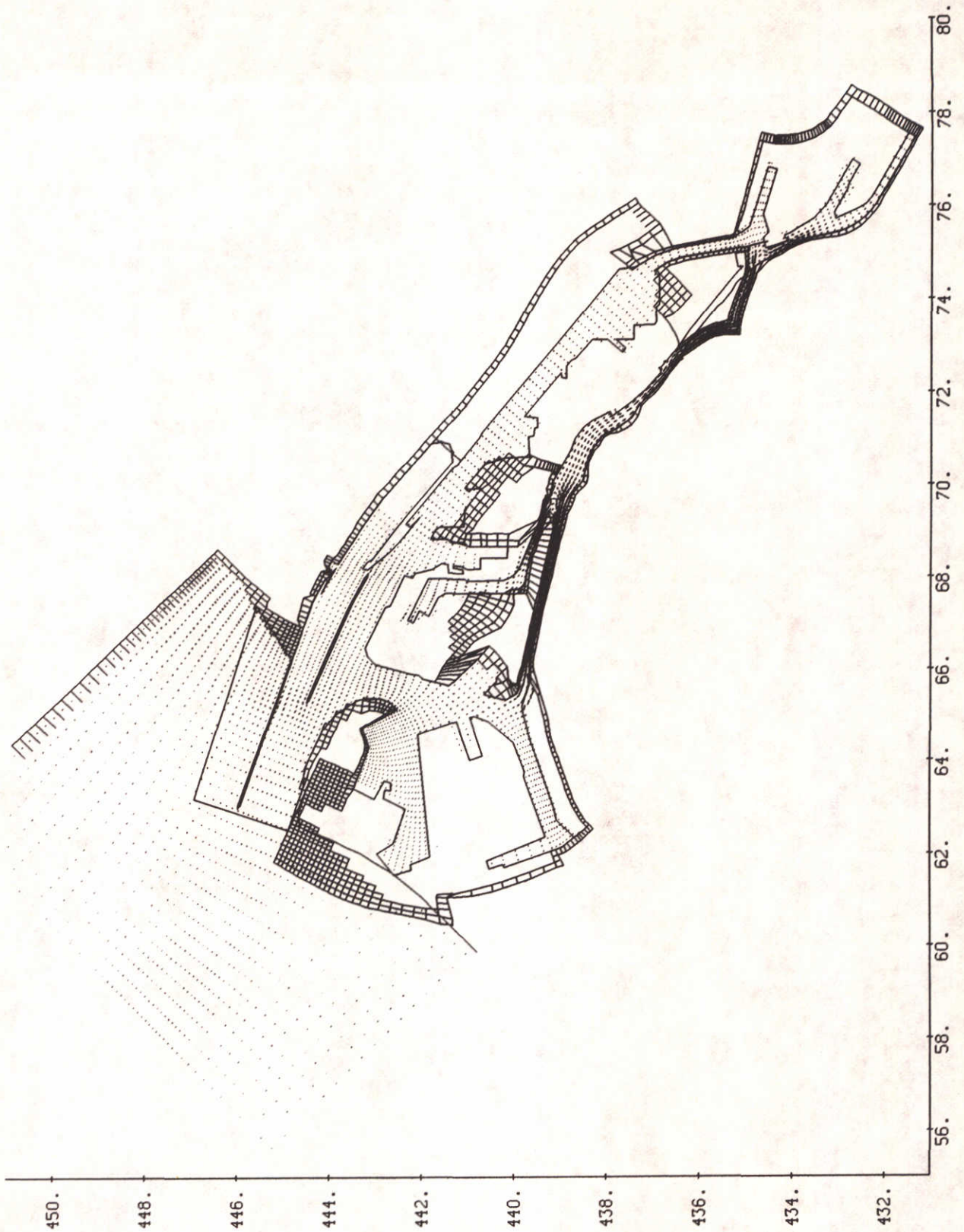
veld 6

DPC = d11

DELFT HYDRAULICS

Z-434

FIG. 104



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

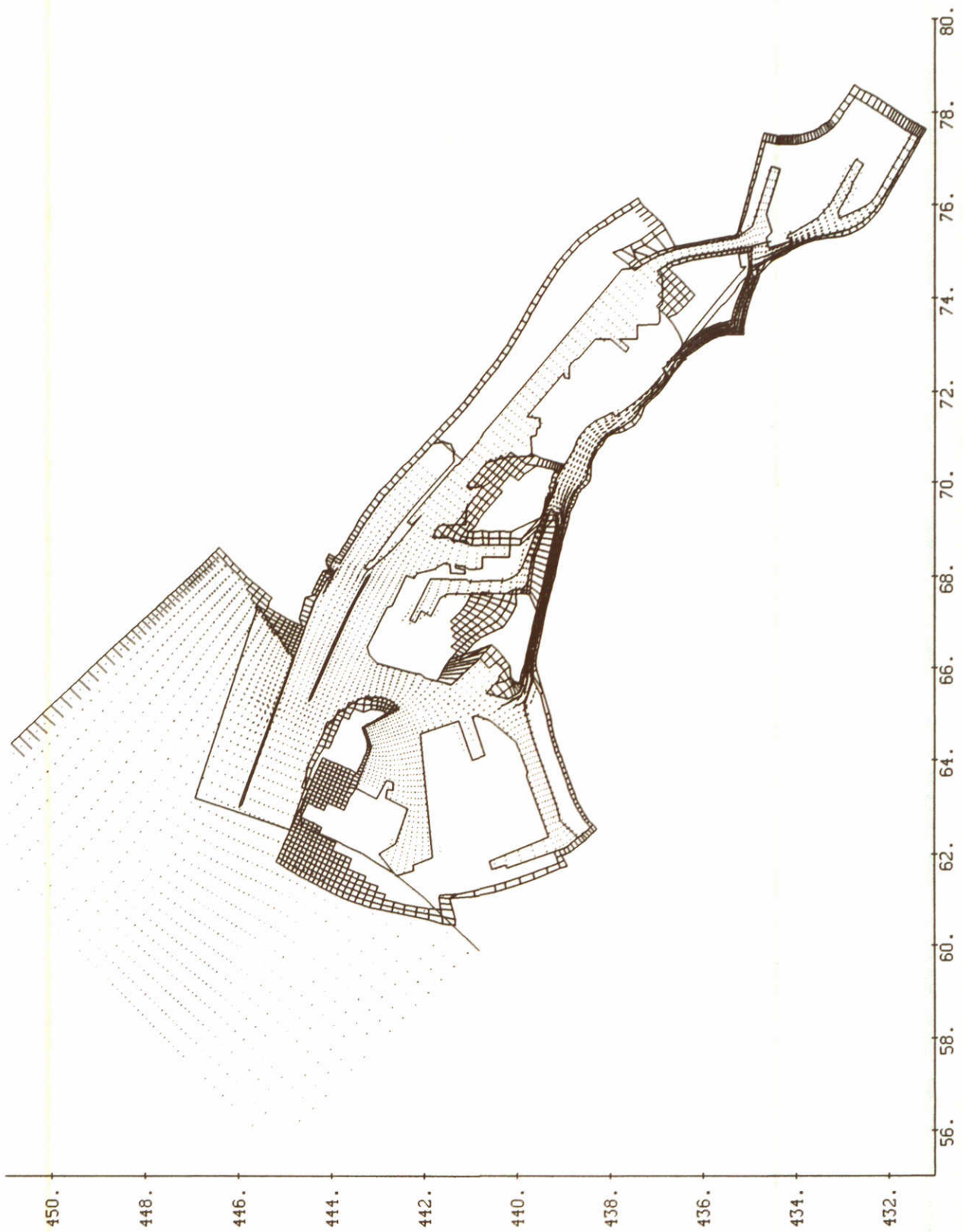
DELFT HYDRAULICS

07/01/91 veld 2

OPC - d11

Z-434

FIG.105



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

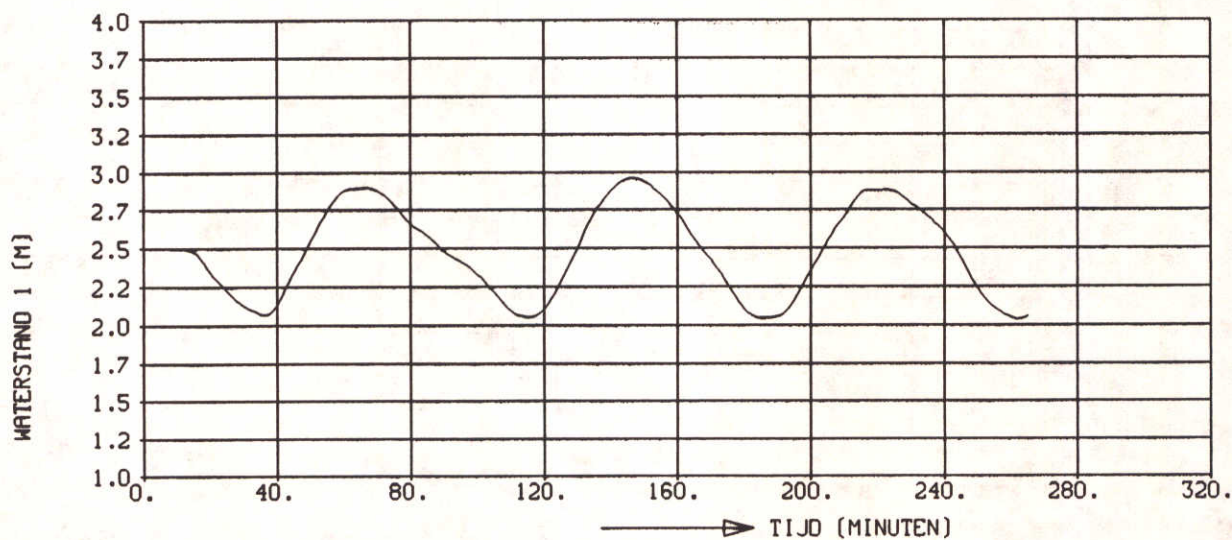
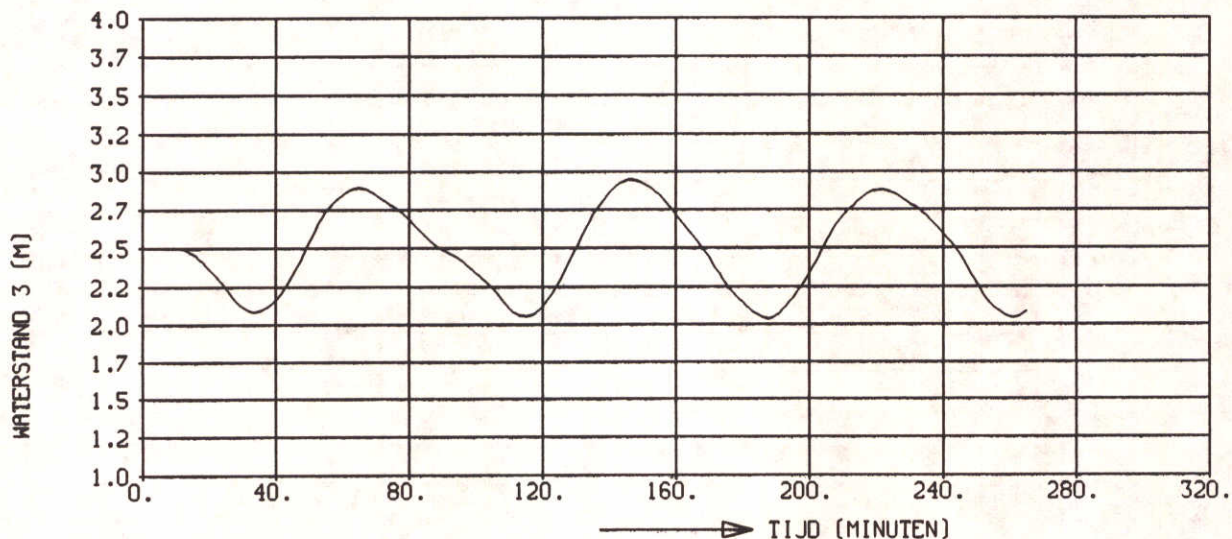
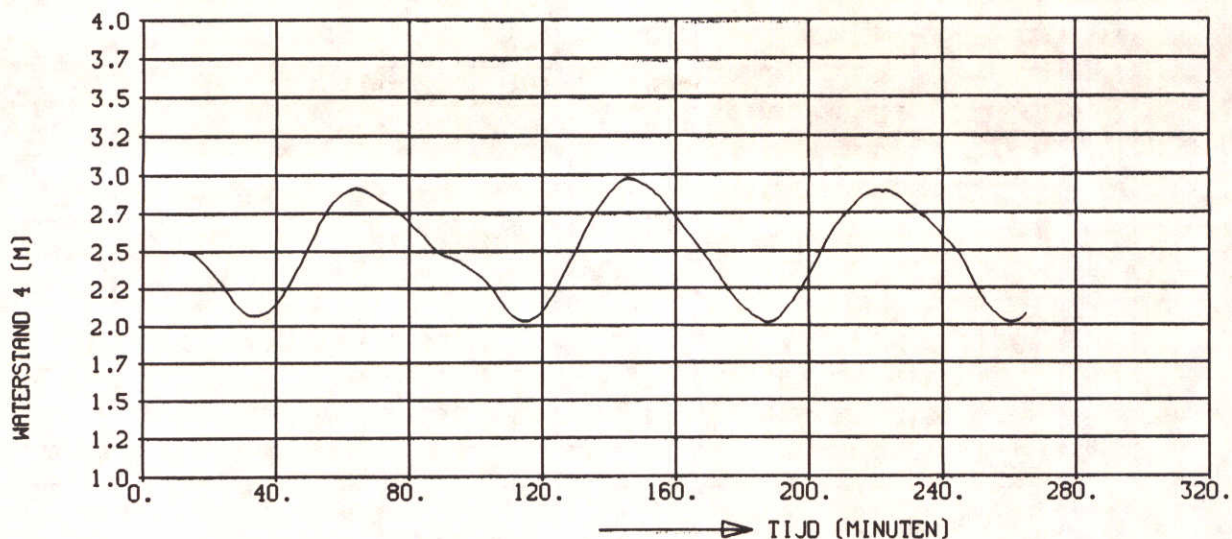
07/01/91 veld 5

OPC - dl1

DELFT HYDRAULICS

Z-434

FIG. 106



SEICHES EUROPOORT

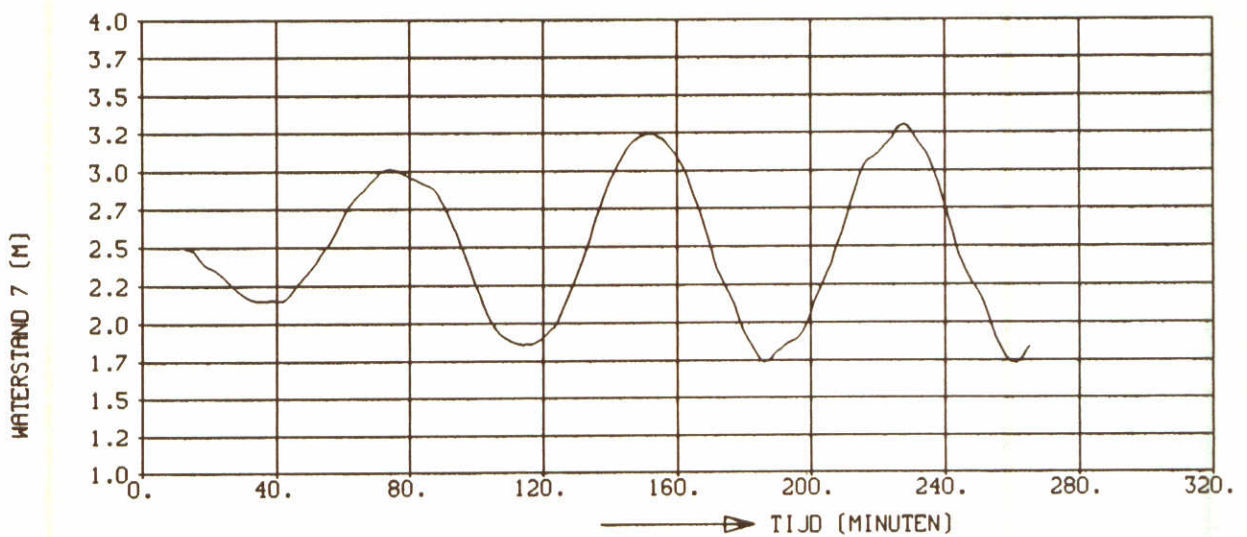
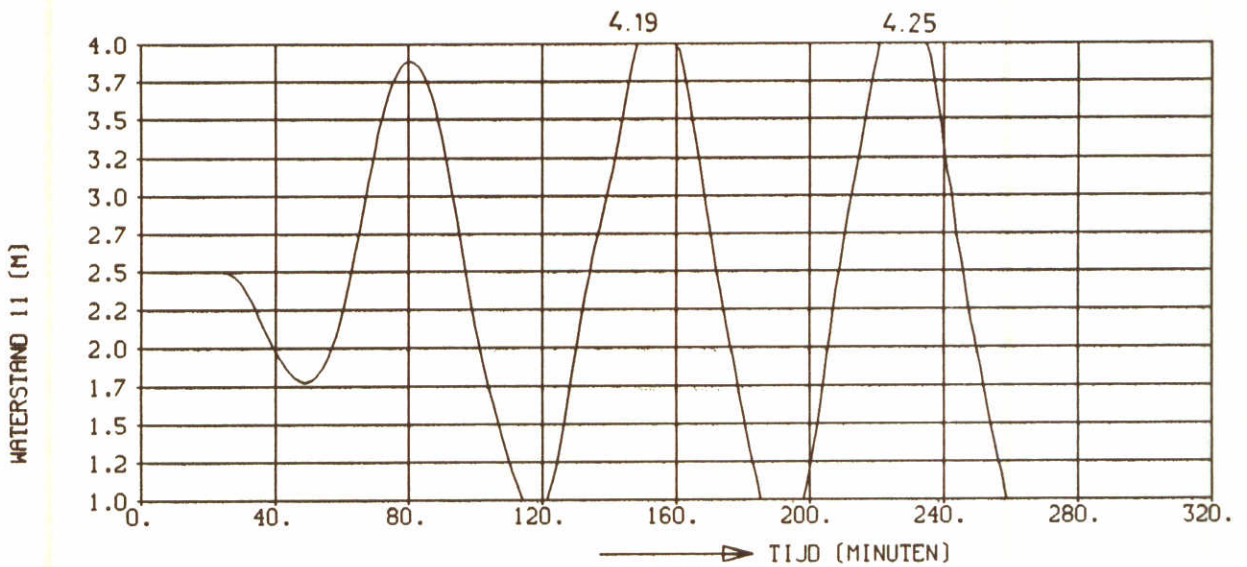
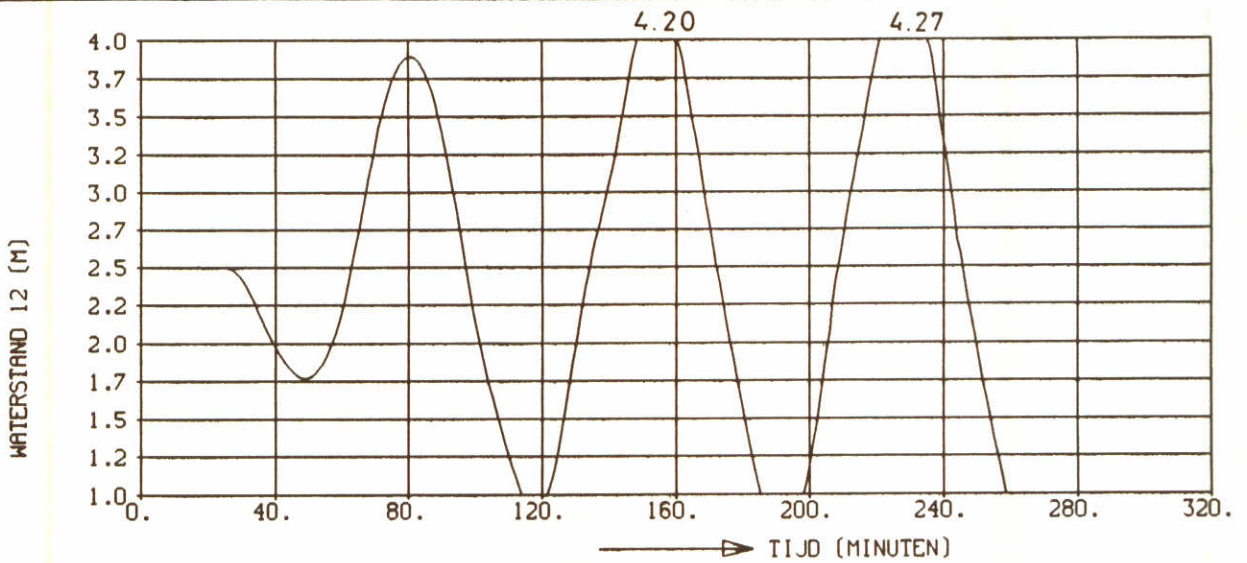
TIJDREEKSEN VAN WATERSTANDEN 1, 3, 4

07/09/91

OPC - 011

DELFT HYDRAULICS

FIG.107



SEICHES EUROPOORT

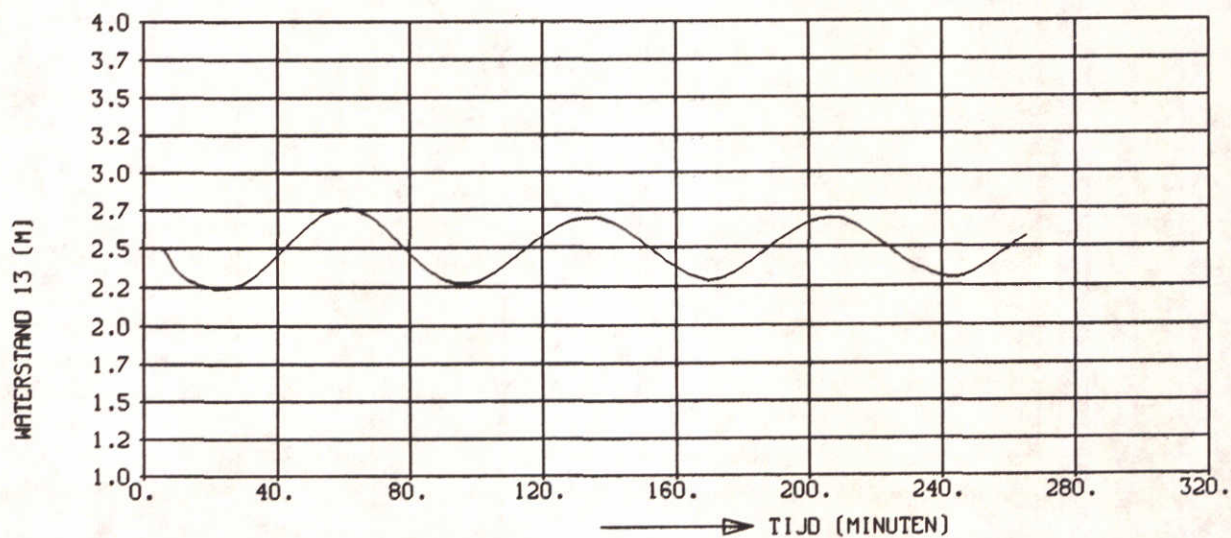
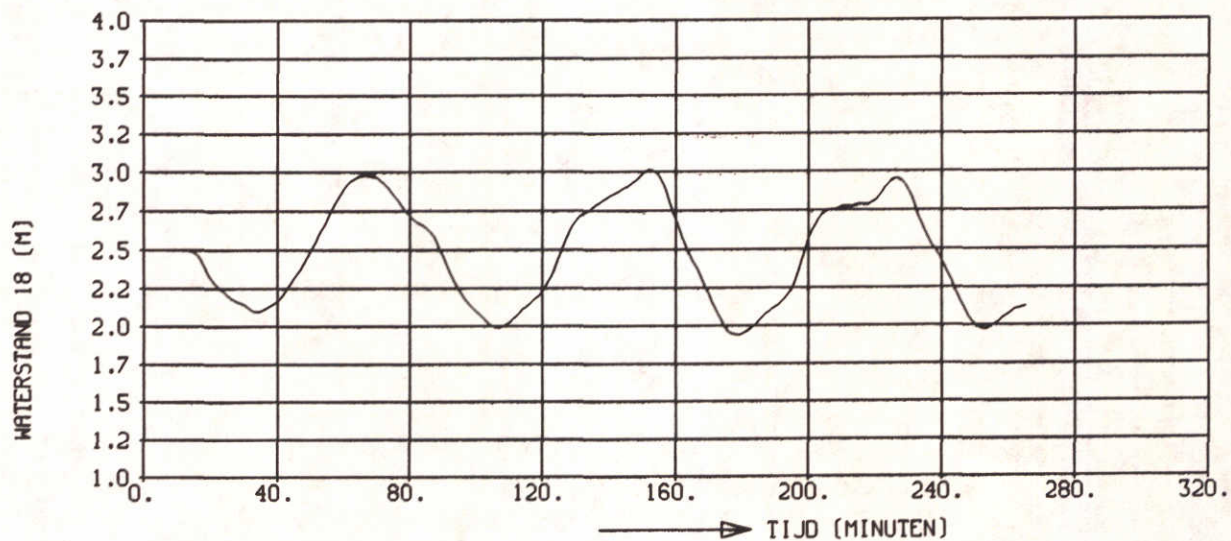
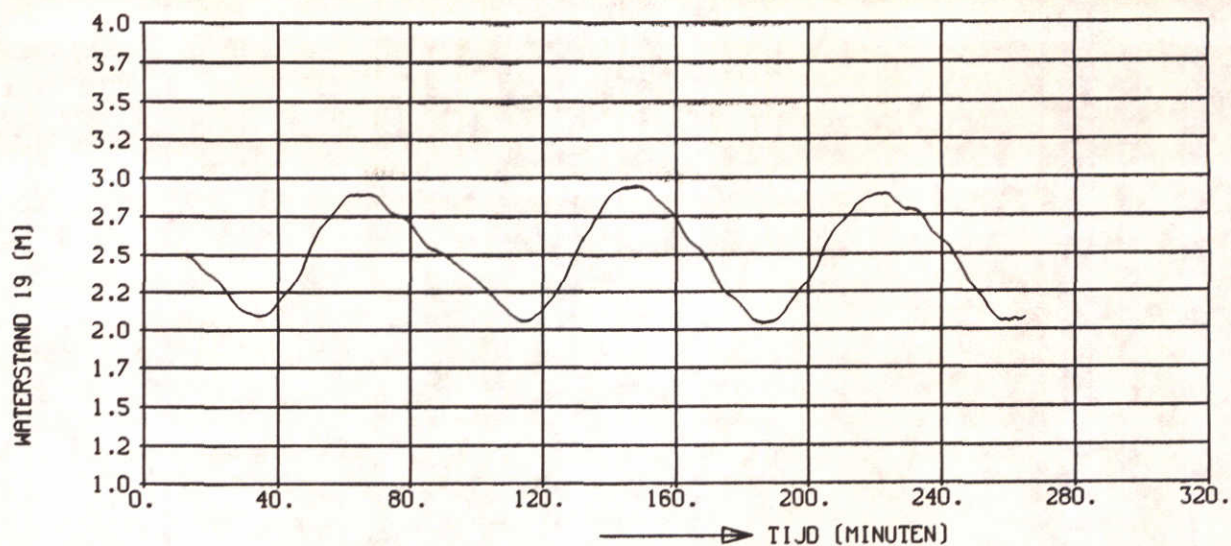
TIJDREEKSEN VAN WATERSTANDEN 7, 11, 12

07/09/91

OPC - 011

DELFT HYDRAULICS

FIG. 108



SEICHES EUROPOORT

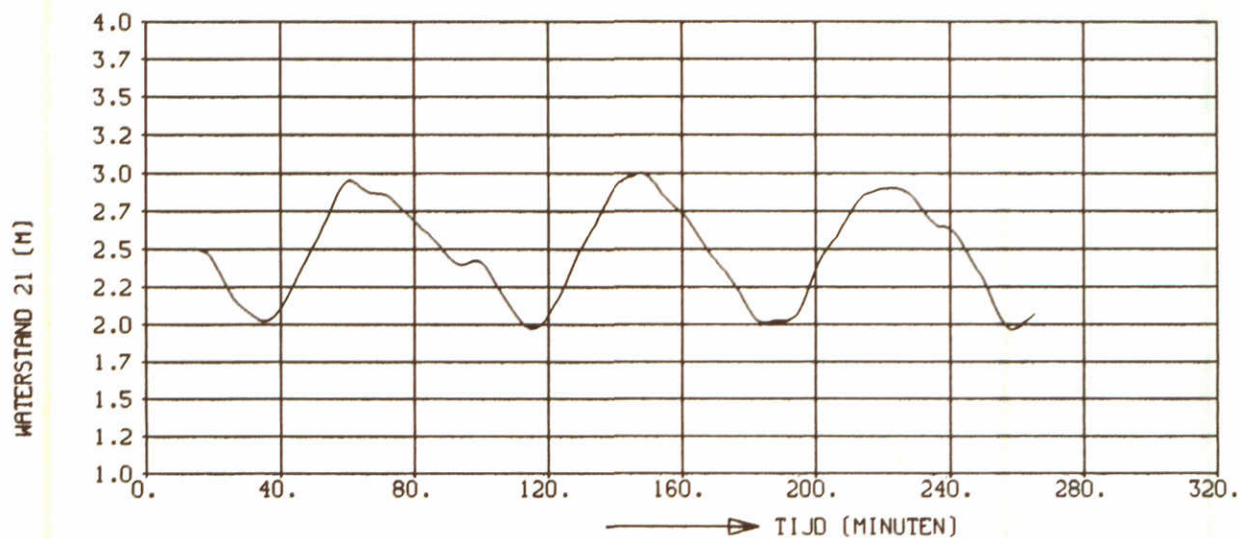
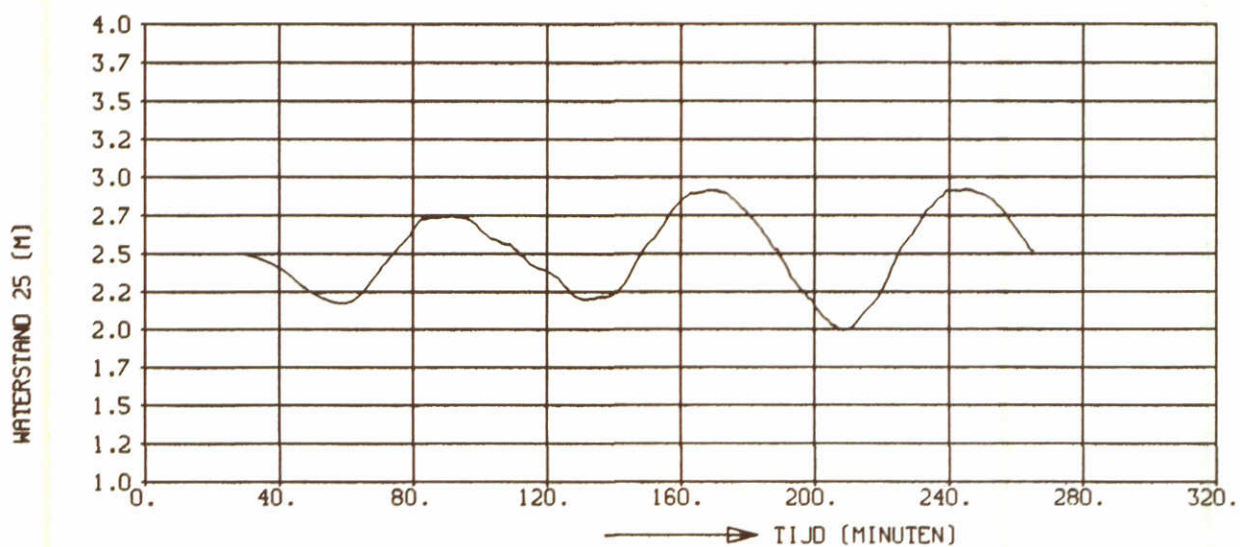
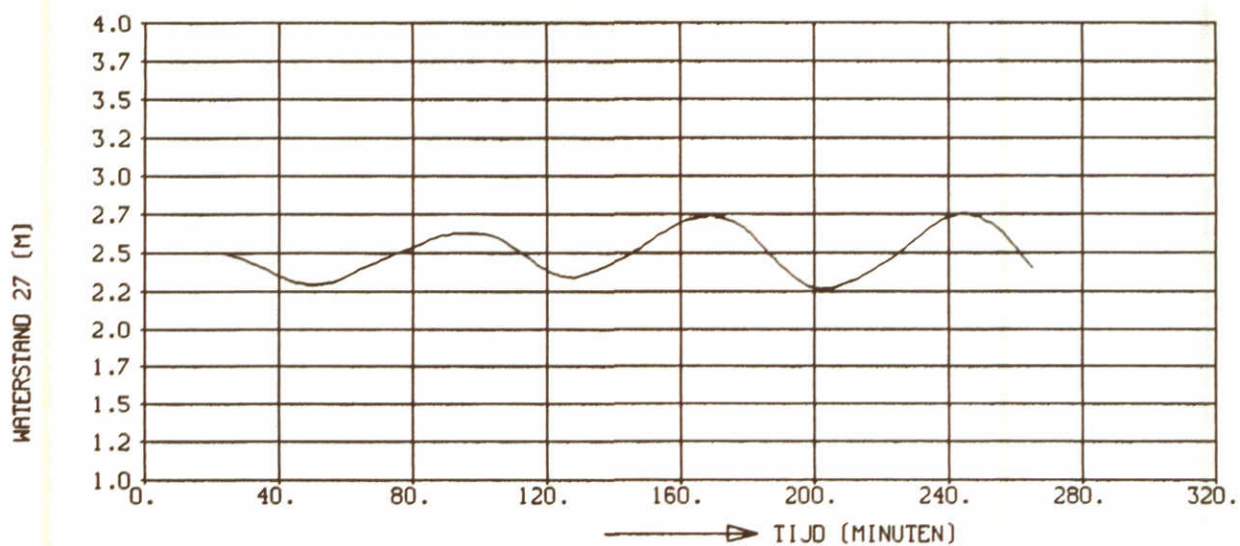
TIJDREEKSEN VAN WATERSTANDEN 13, 18, 19

07/09/91

OPC - 011

DELFT HYDRAULICS

FIG. 109



SEICHES EUROPOORT

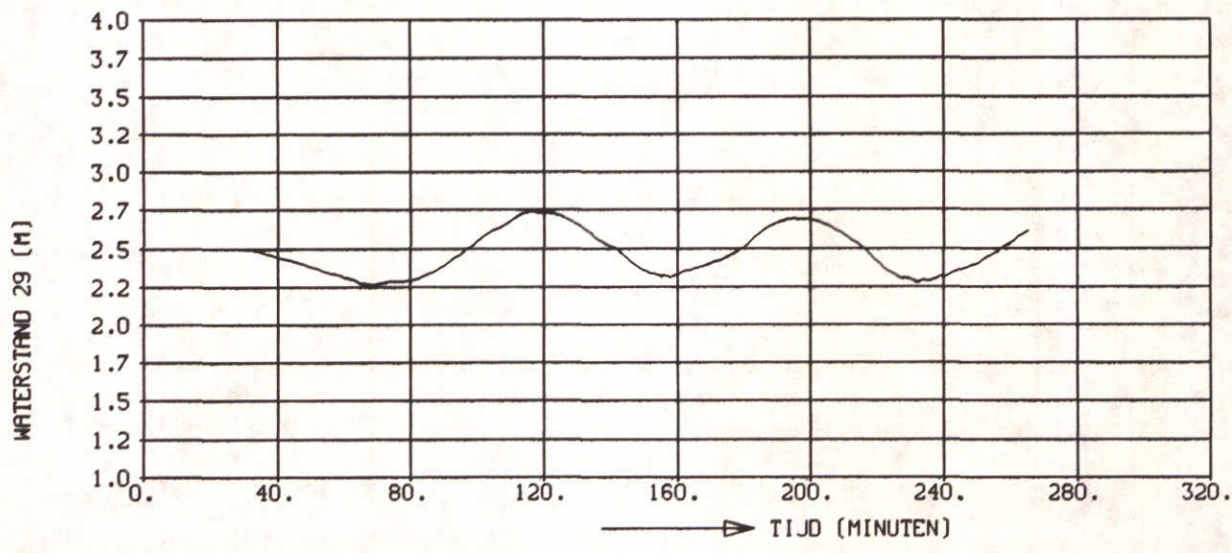
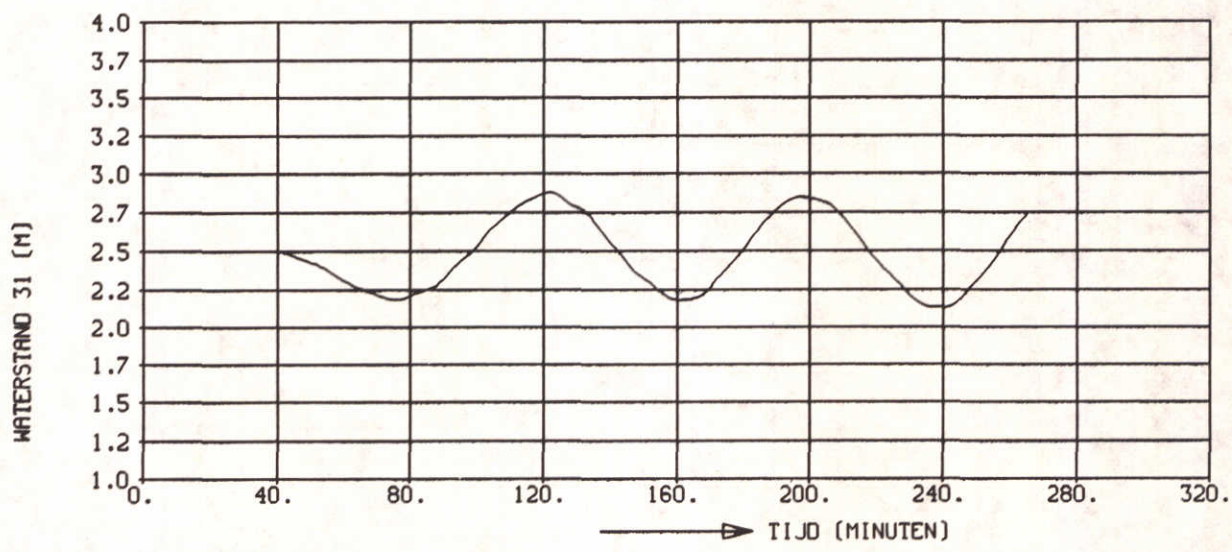
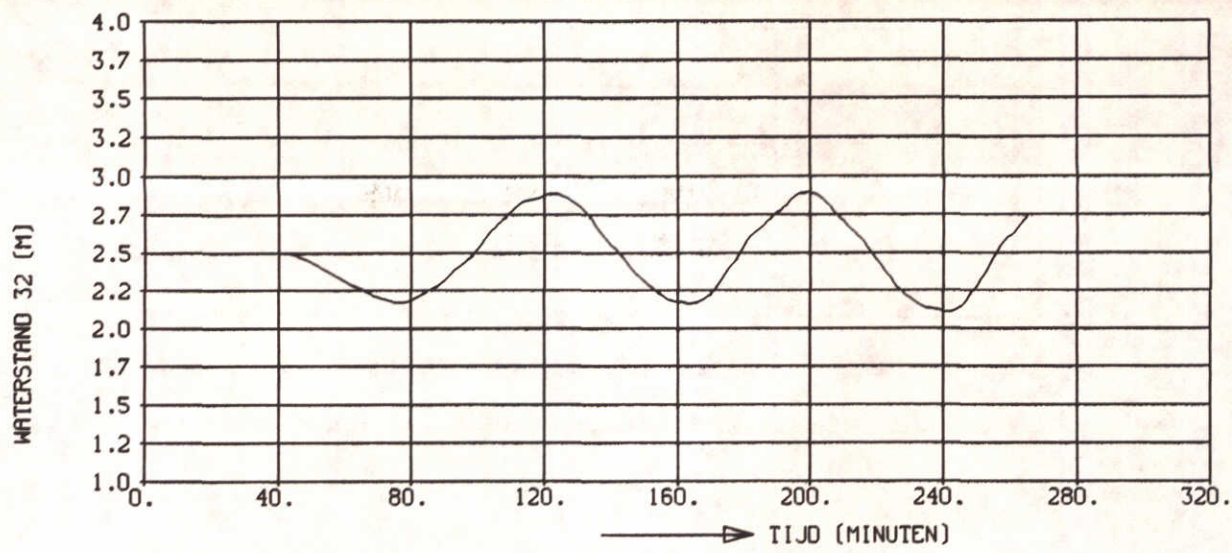
TIJDREKSEN VAN WATERSTANDEN 21, 25, 27

07/09/91

OPC - 011

DELFT HYDRAULICS

FIG.110



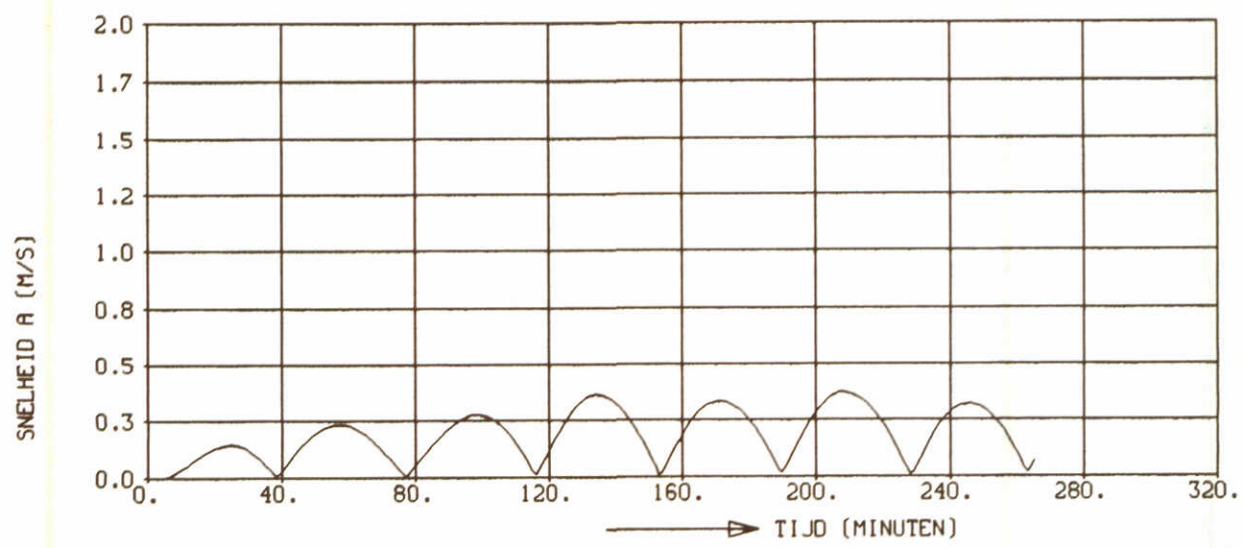
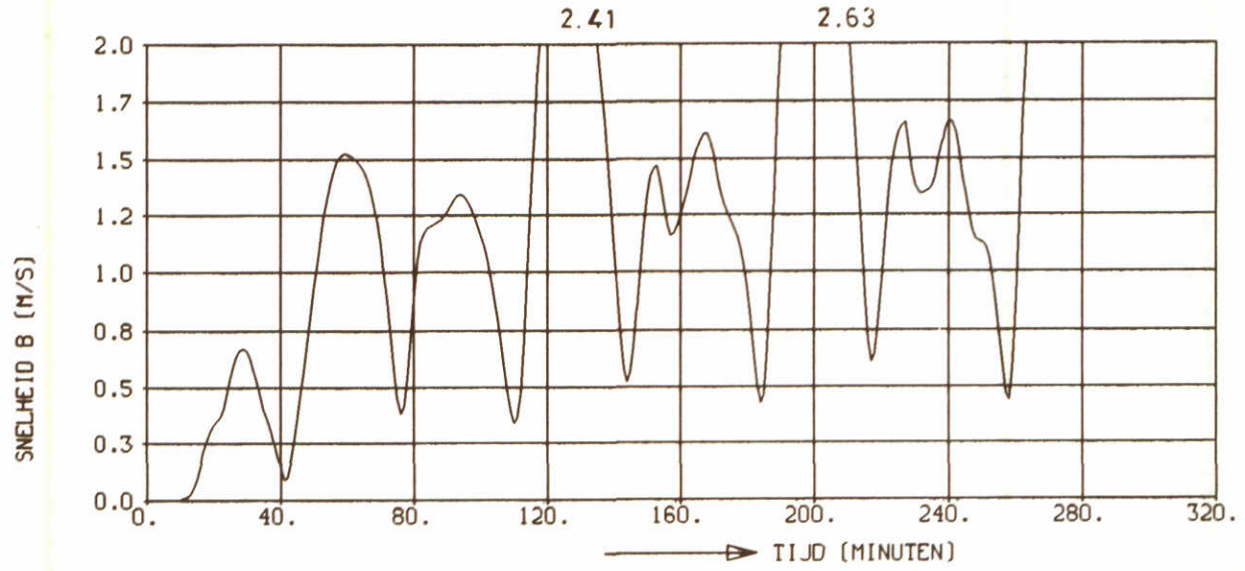
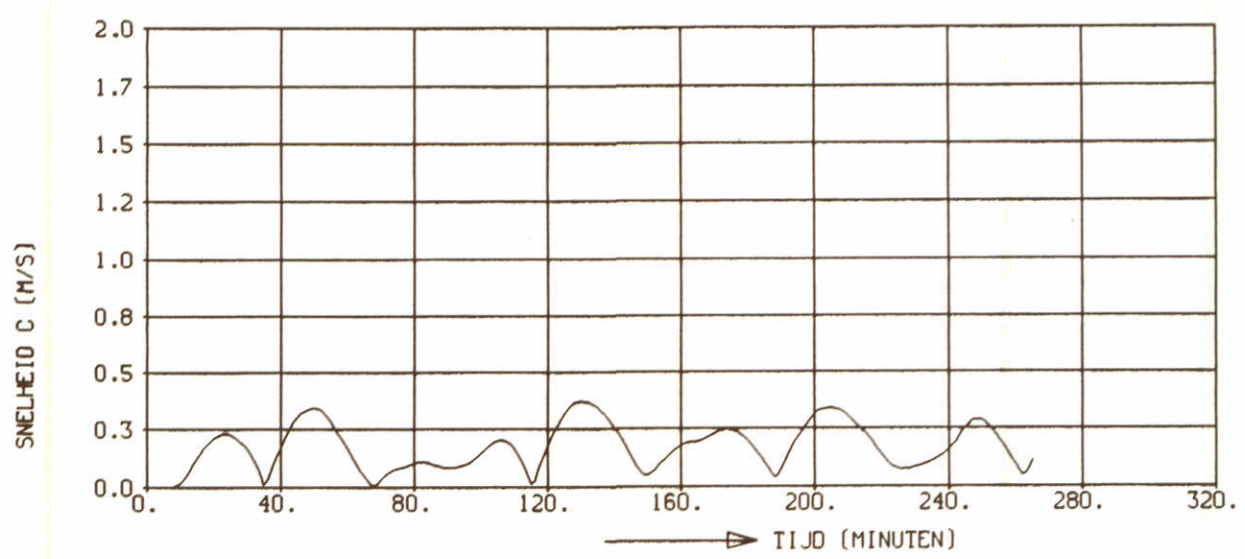
SEICHES EUROPOORT
TIJDREEKSEN VAN WATERSTANDEN 29, 31, 32

07/09/91

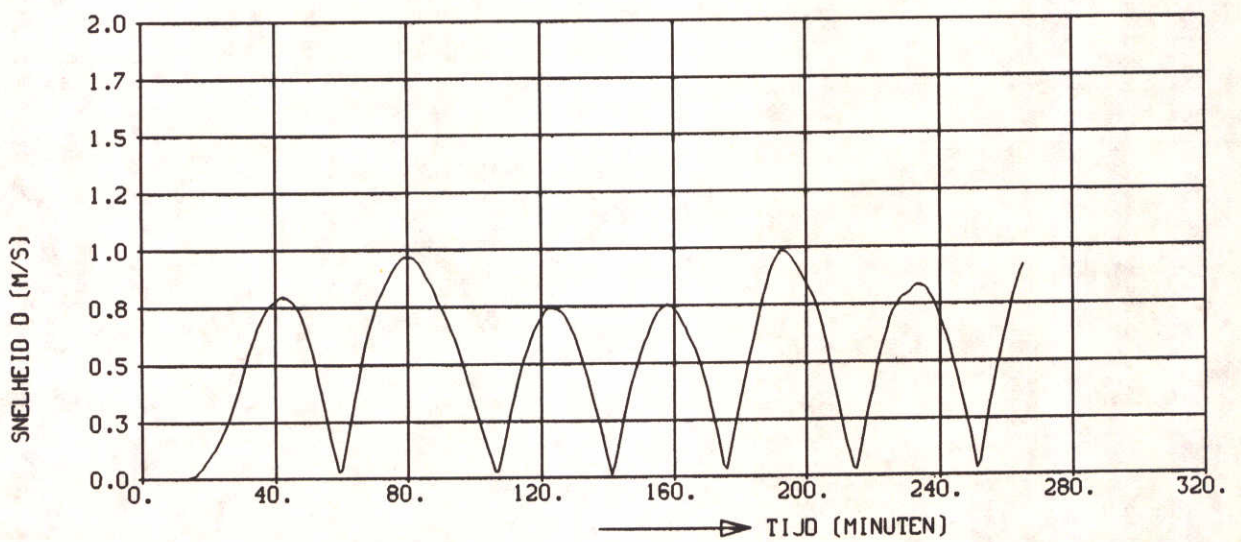
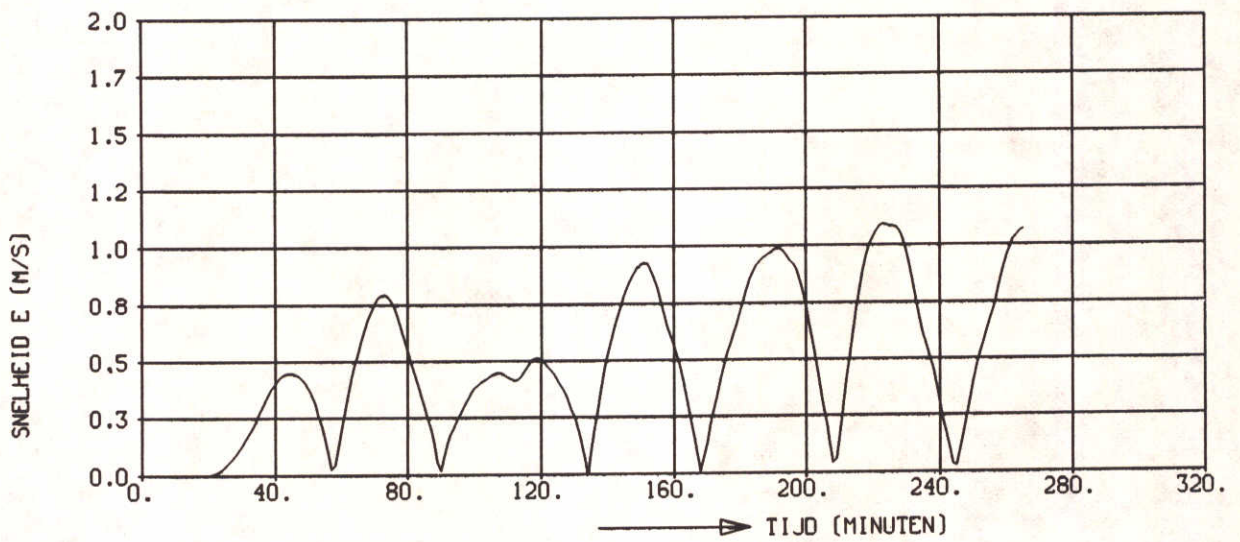
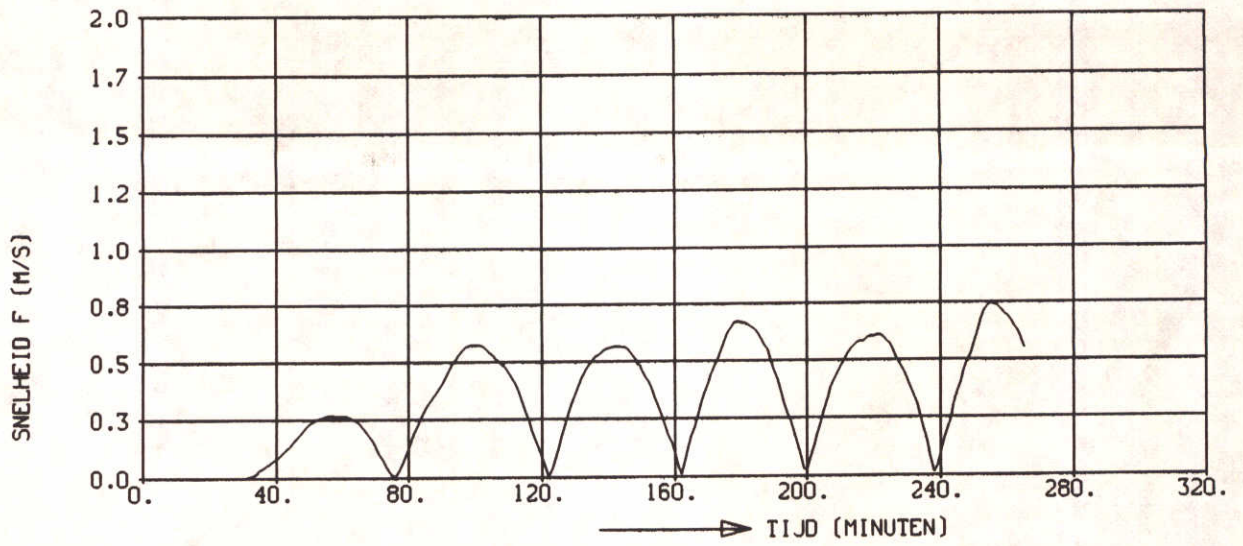
OPC - 011

DELFT HYDRAULICS

FIG.111



SEICHES EUROPOORT TIJDREKSEN VAN SNELHEDEN A, B, C	09-07-91	
	OPC - OL1	
DELFT HYDRAULICS		FIG.112



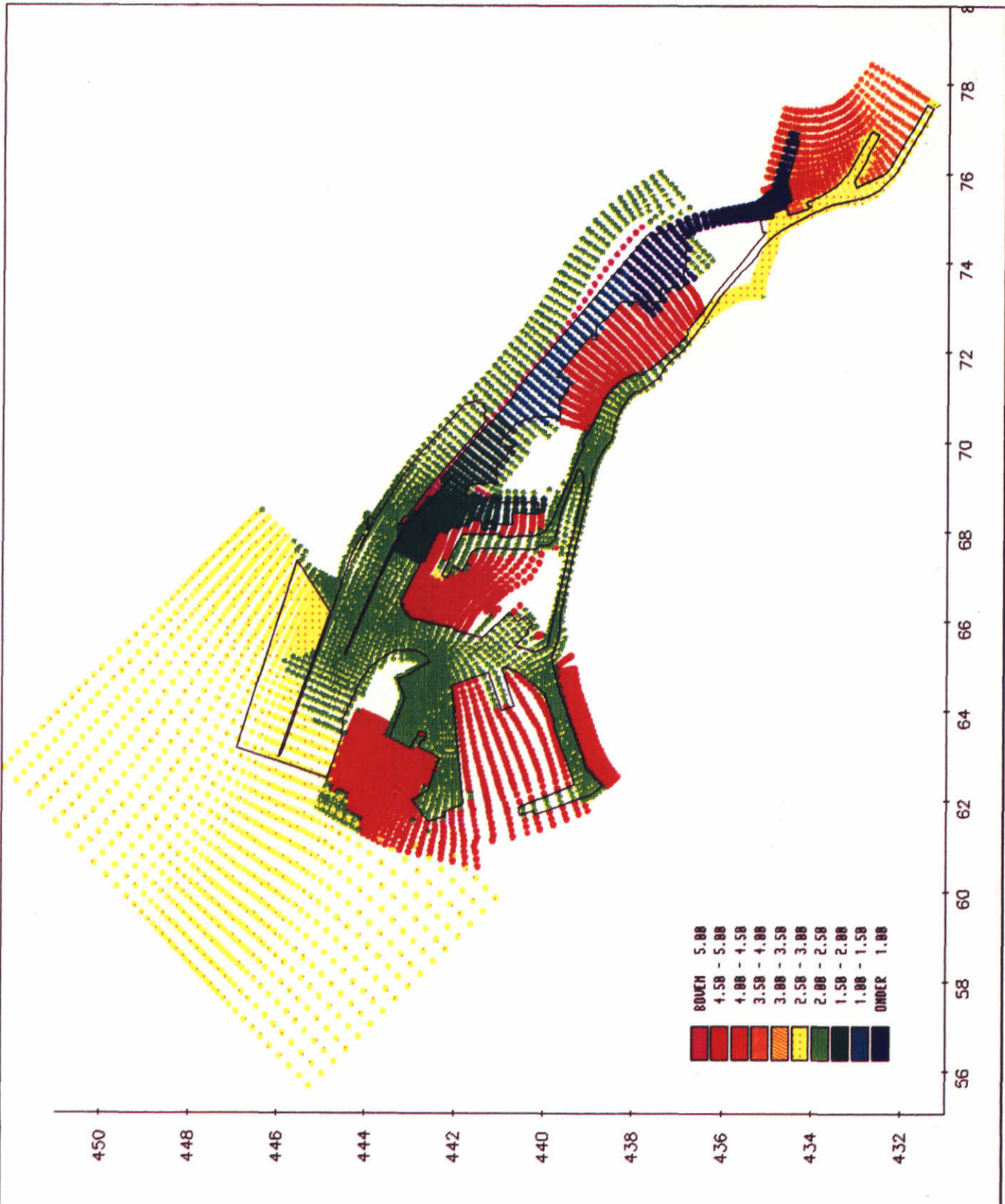
SEICHES EUROPOORT
 TIJDREEKSEN VAN SNELHEDEN D, E, F

09-07-91

OPC - OL1

DELFT HYDRAULICS

FIG.113



SEICHES EUROPOORT
ISOLIJNEN DIEPTE

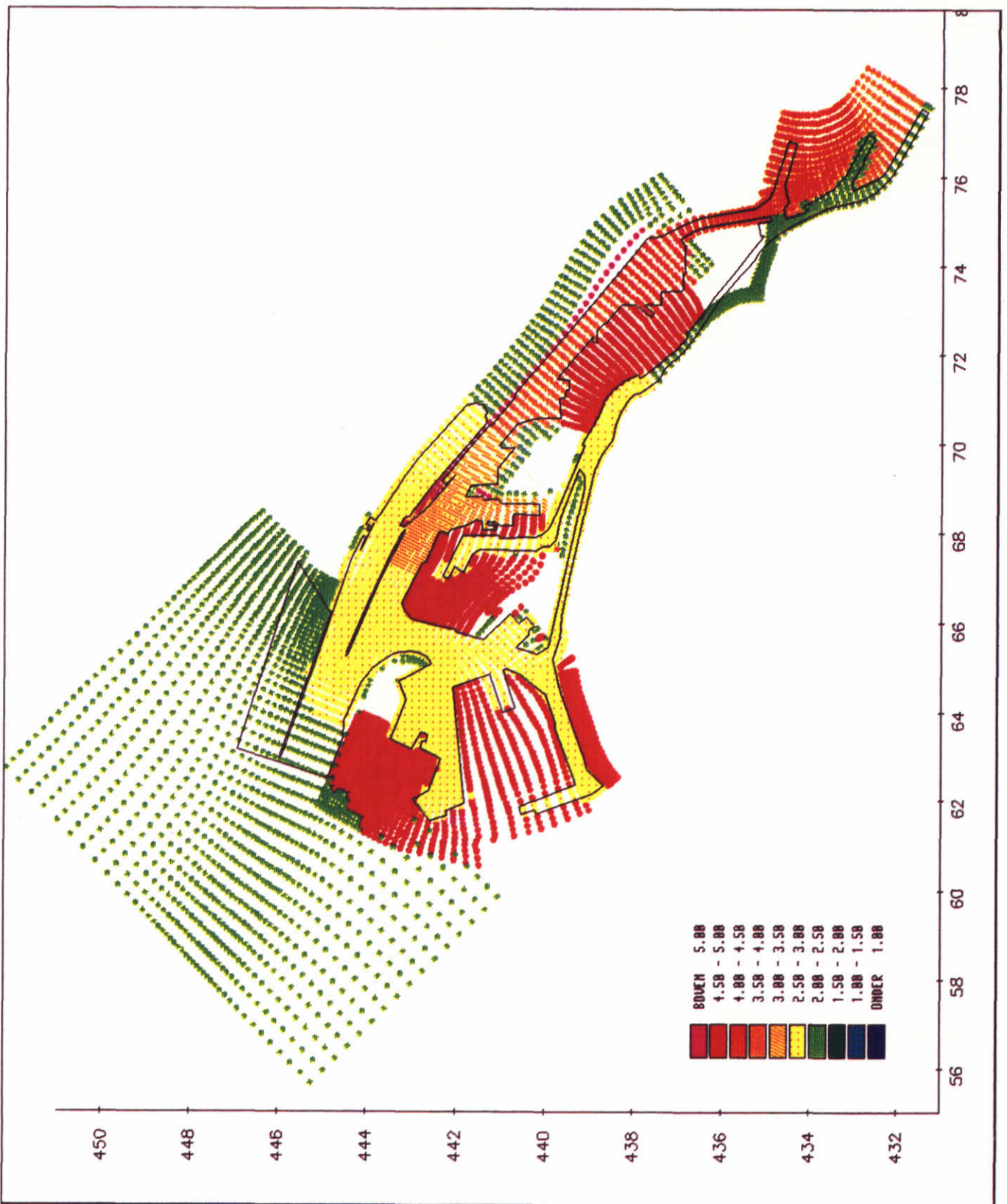
07/12/91 veld 1

OPC = o11

DELFT HYDRAULICS

Z-434

FIG. 114



SEICHES EUROPOORT
ISOLIJNEN WATERSTAND

07/12/91

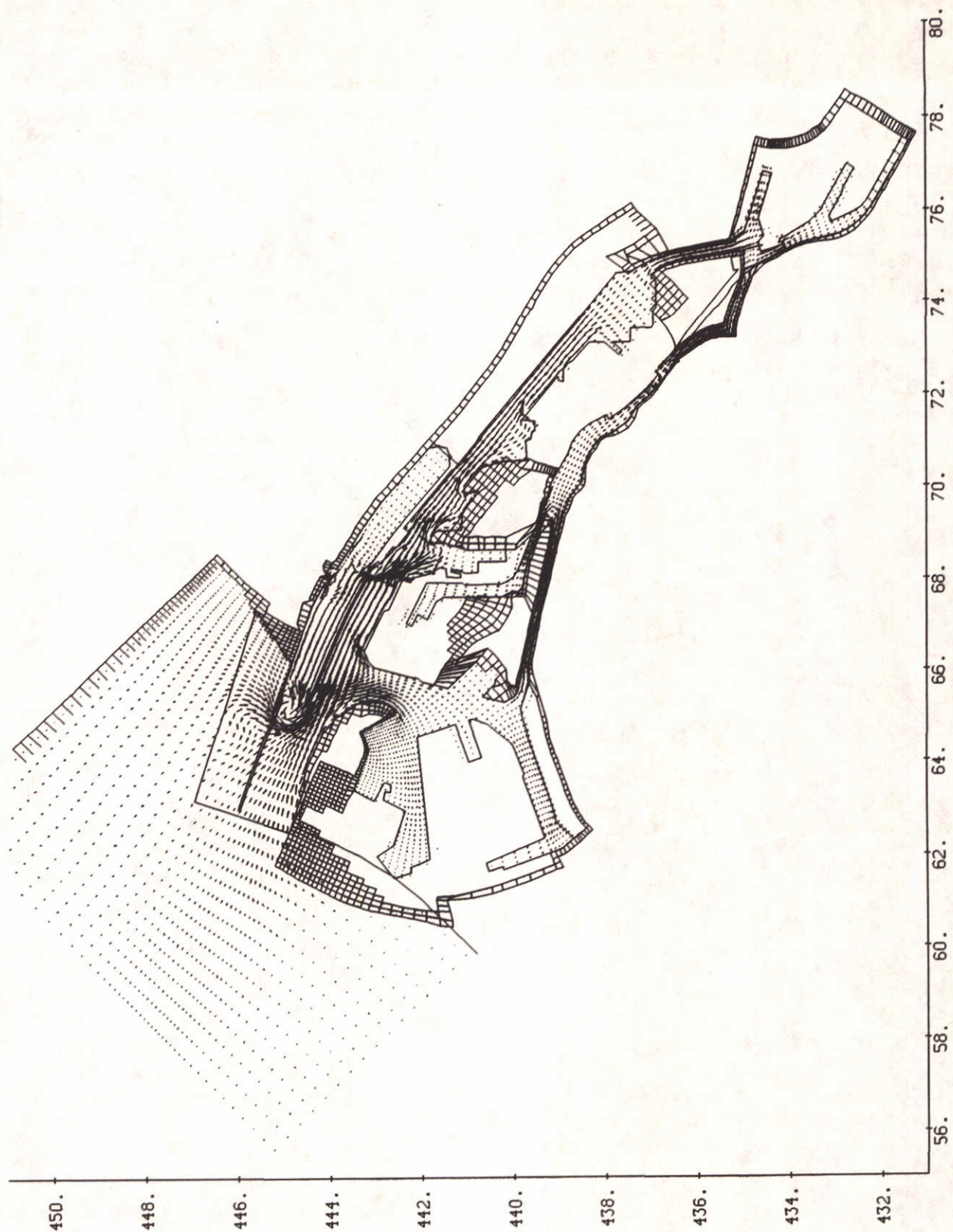
veld 4

OPC = o11

DELFT HYDRAULICS

Z-434

FIG. 115



SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S

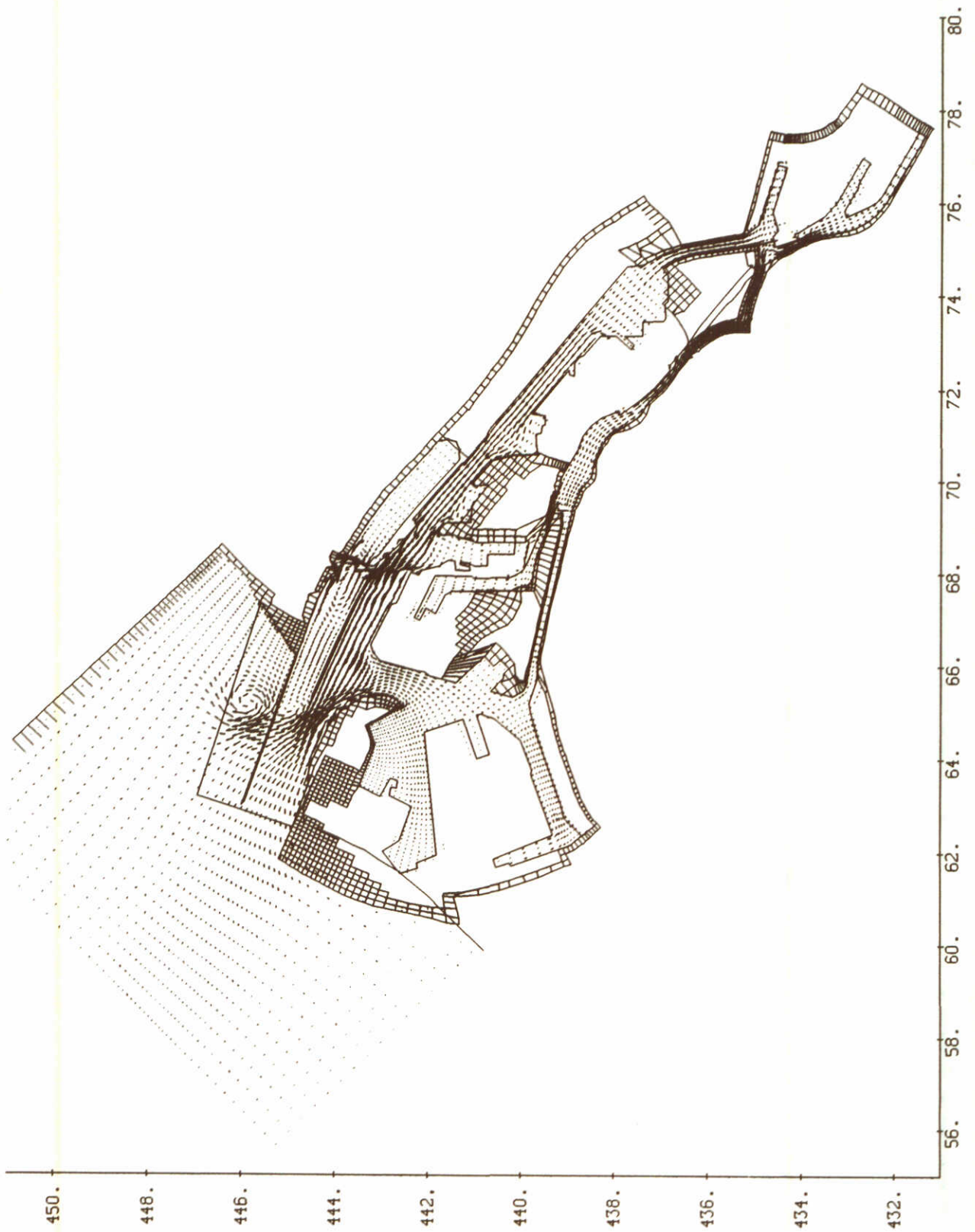
07/25/90 veld 2

OPC - oL1

DELFT HYDRAULICS

Z-434

FIG.116



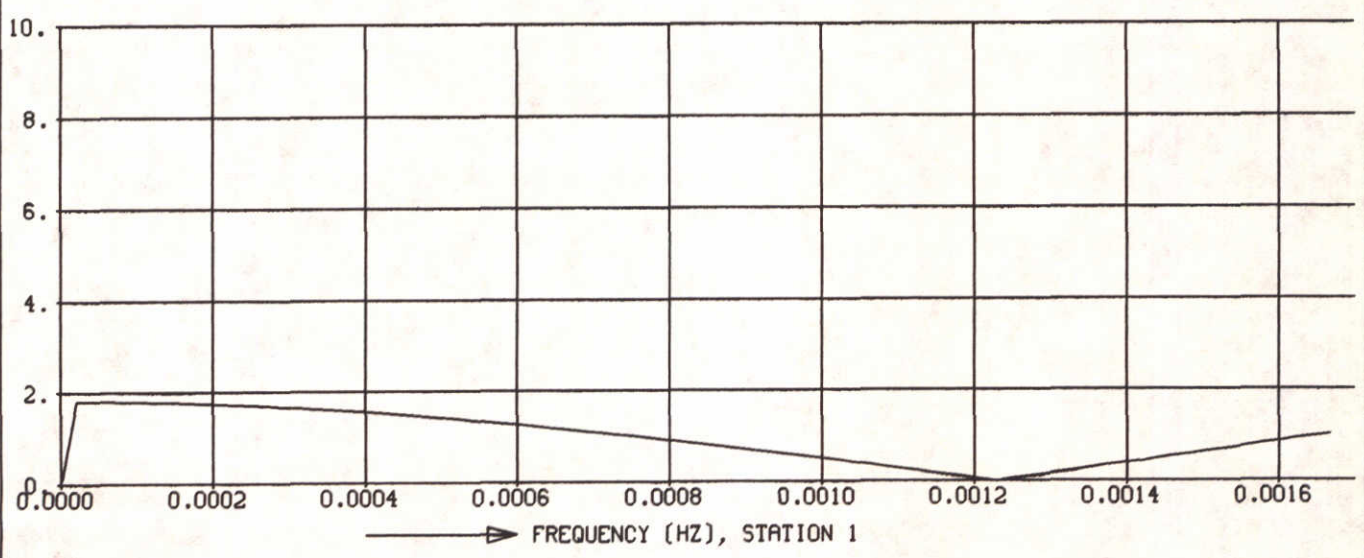
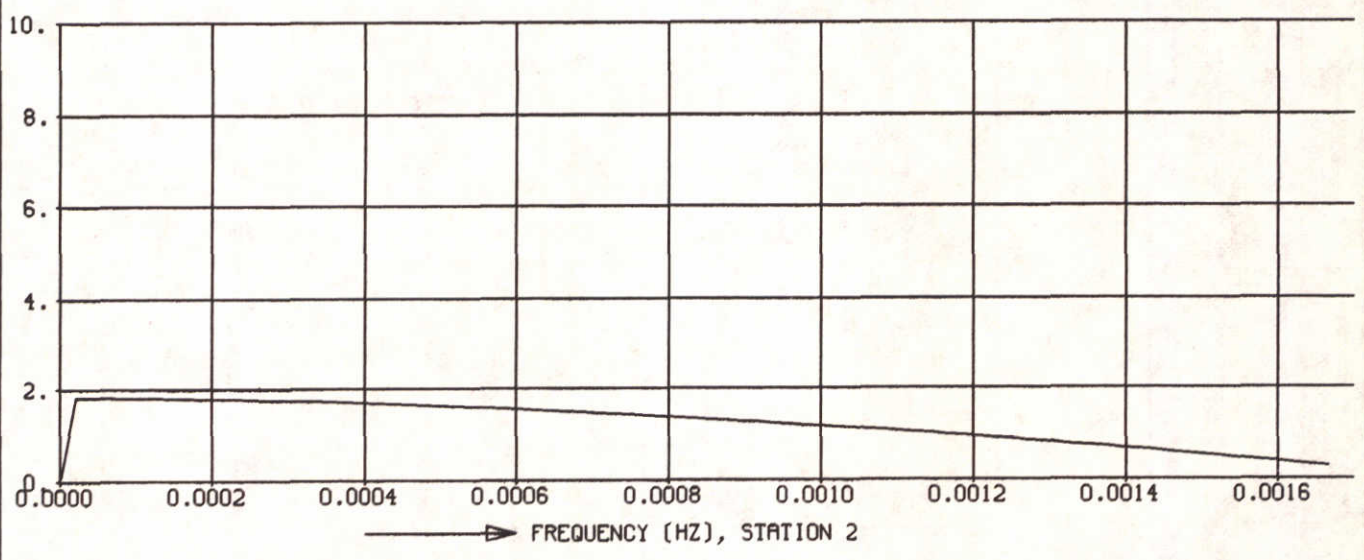
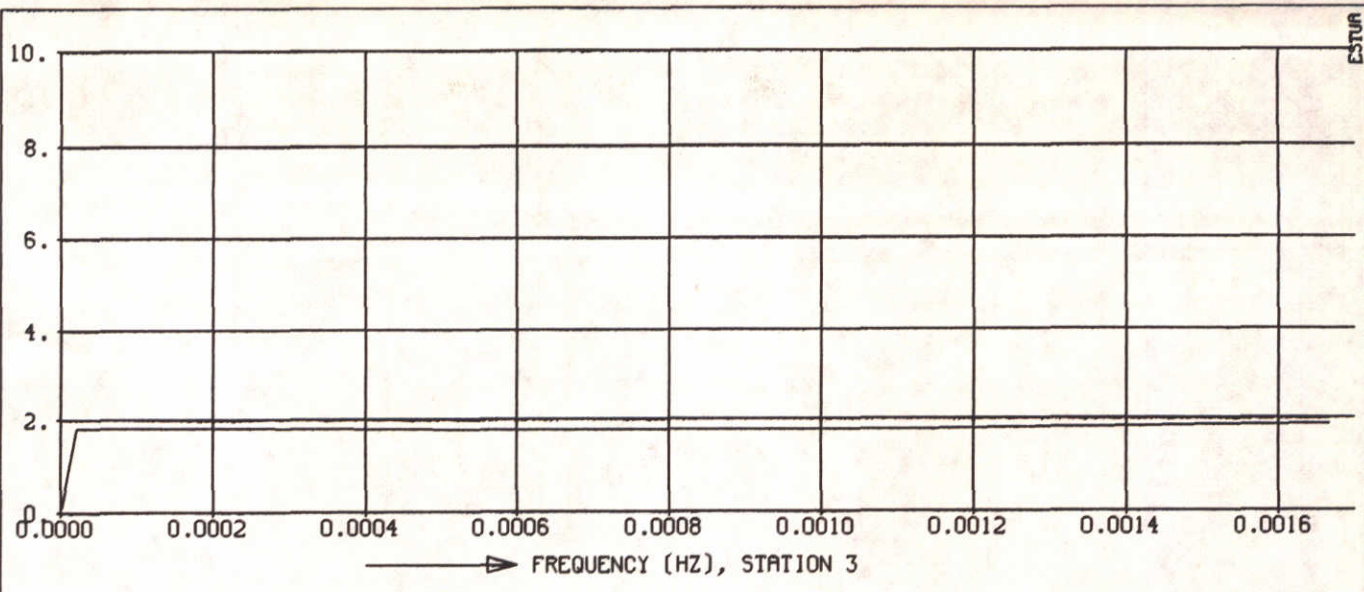
SEICHES EUROPOORT
 VECTORVELD 1 CM = 4.0 M/S
 DELFT HYDRAULICS

07/25/90 veld 6

OPC - o11

Z-434

FIG. 117



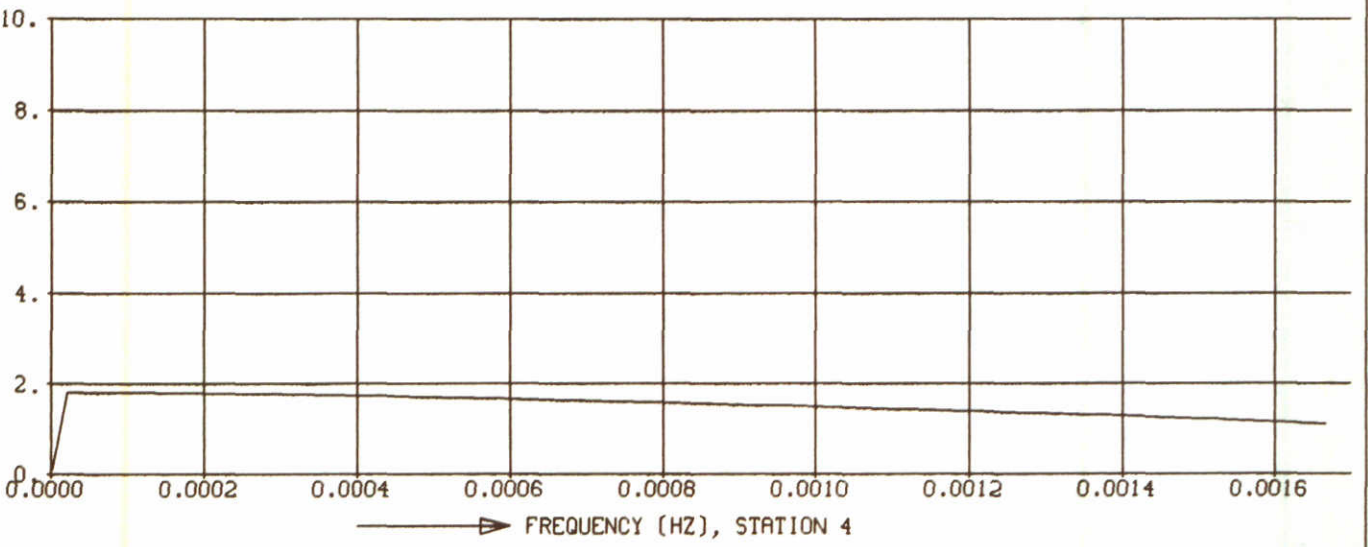
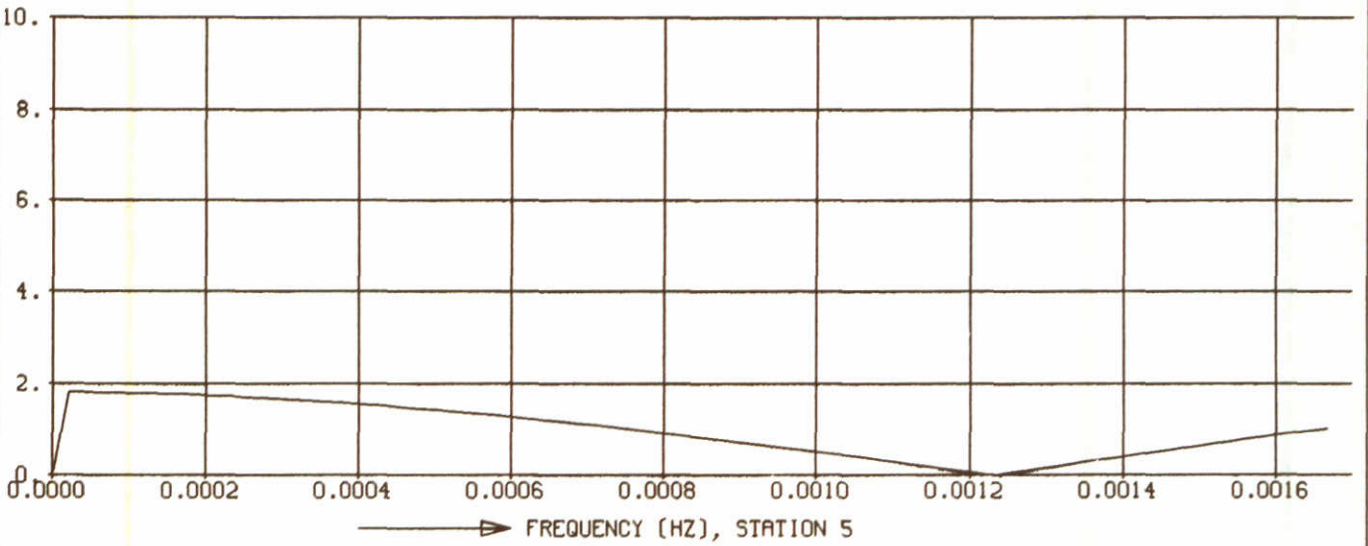
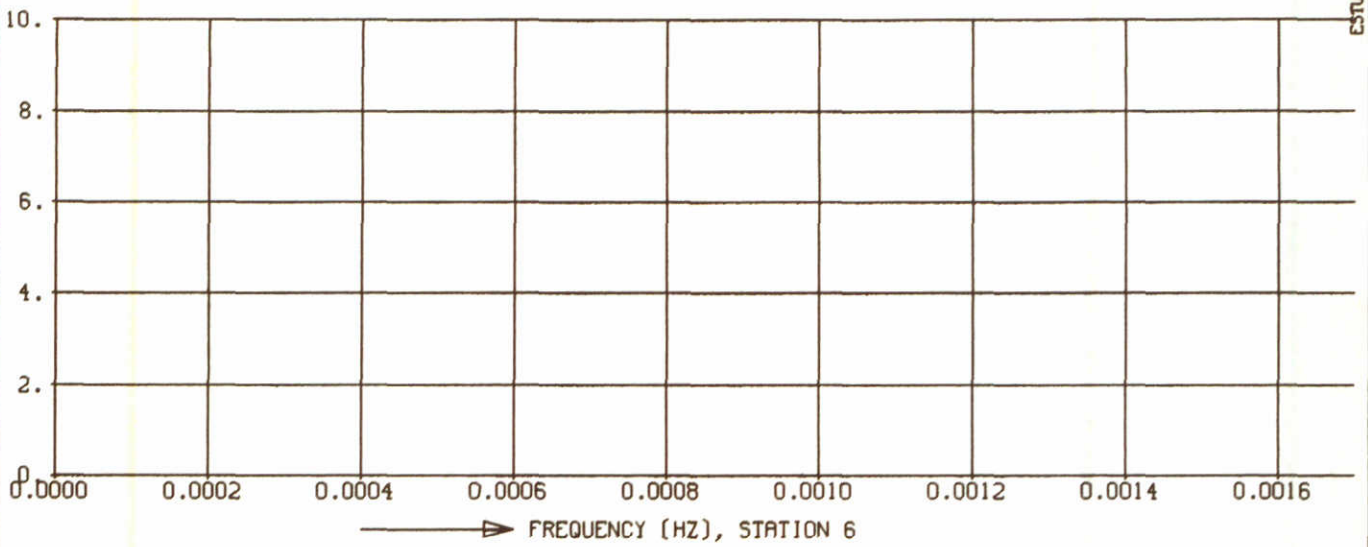
SEICHES EUROPOORT
SPECTRA VAN STATIONS 1, 2, 3 IN MM

12-07-91

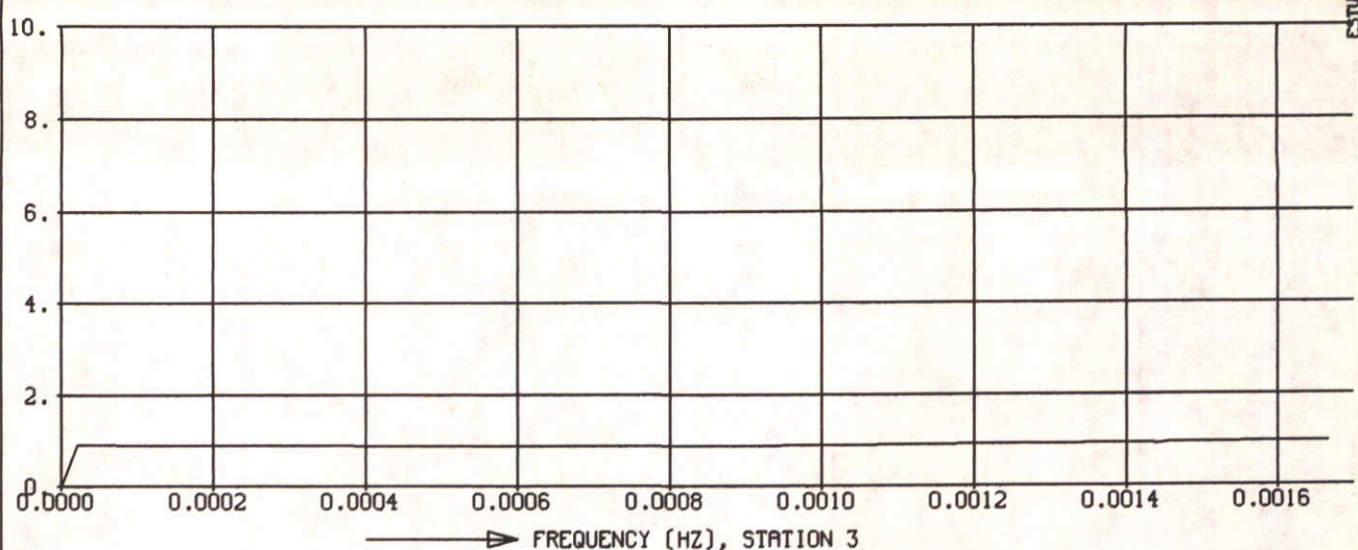
OPC - TST

DELFT HYDRAULICS

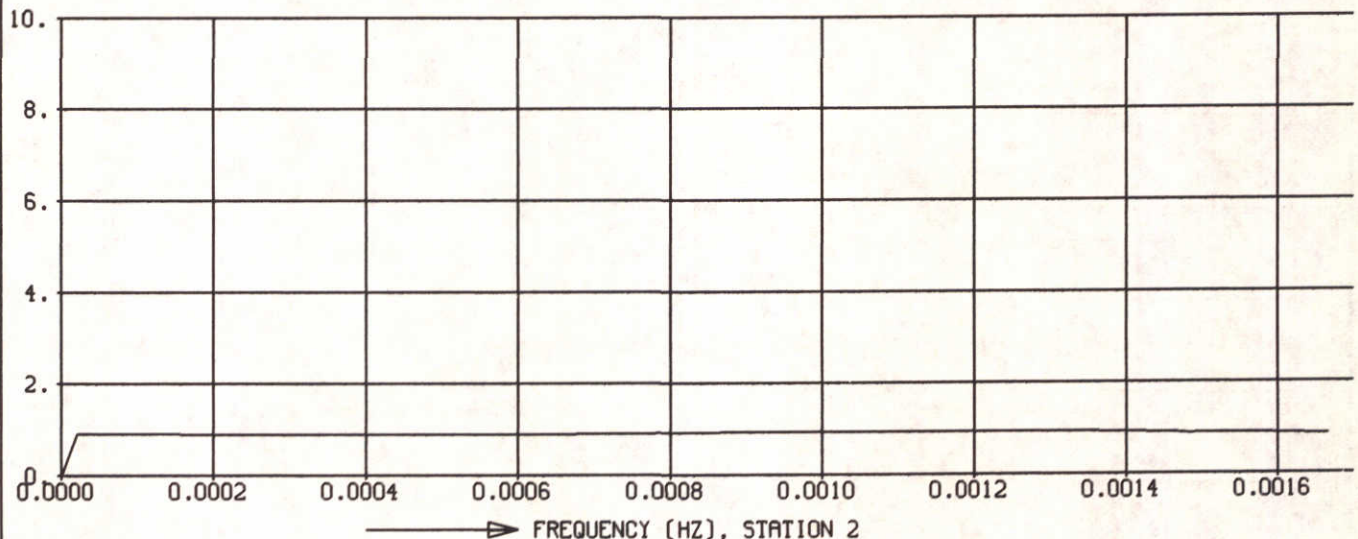
FIG.118



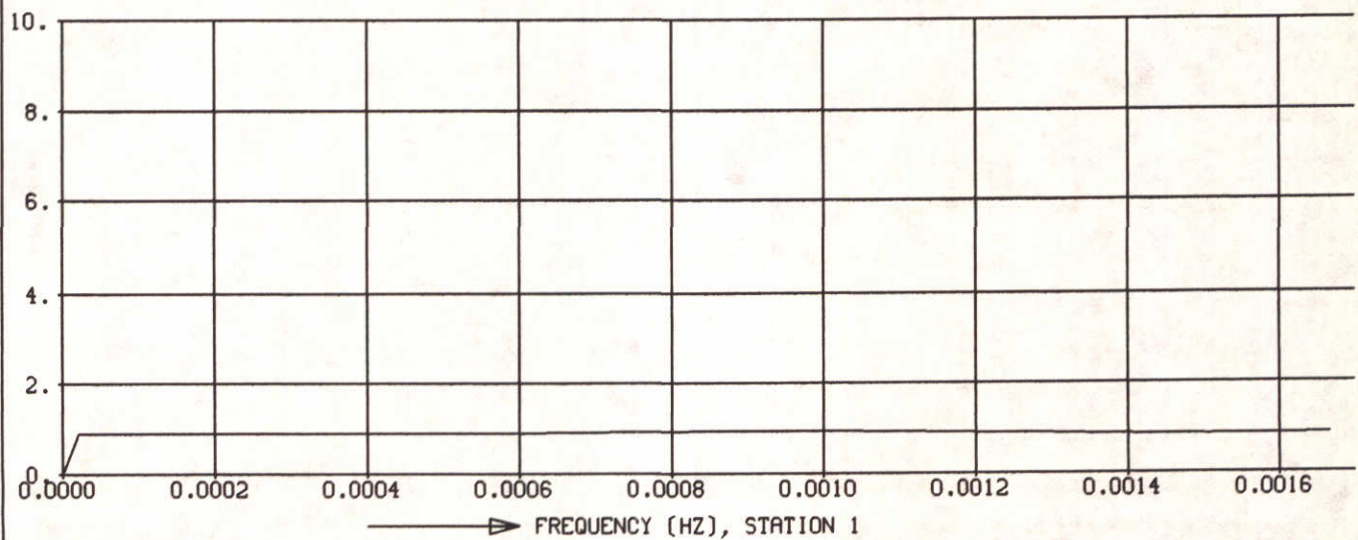
SEICHES EUROPOORT SPECTRA VAN STATIONS 4, 5 IN MM	12-07-91
	OPC - TST
DELFT HYDRAULICS	FIG. 119



→ FREQUENCY (HZ), STATION 3

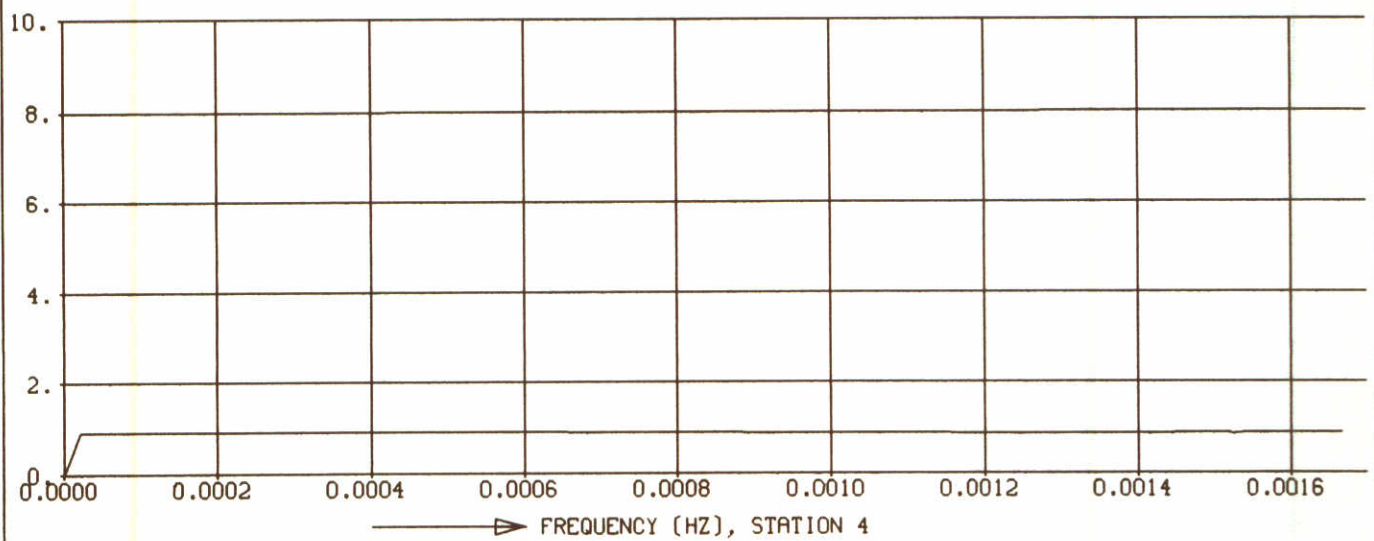
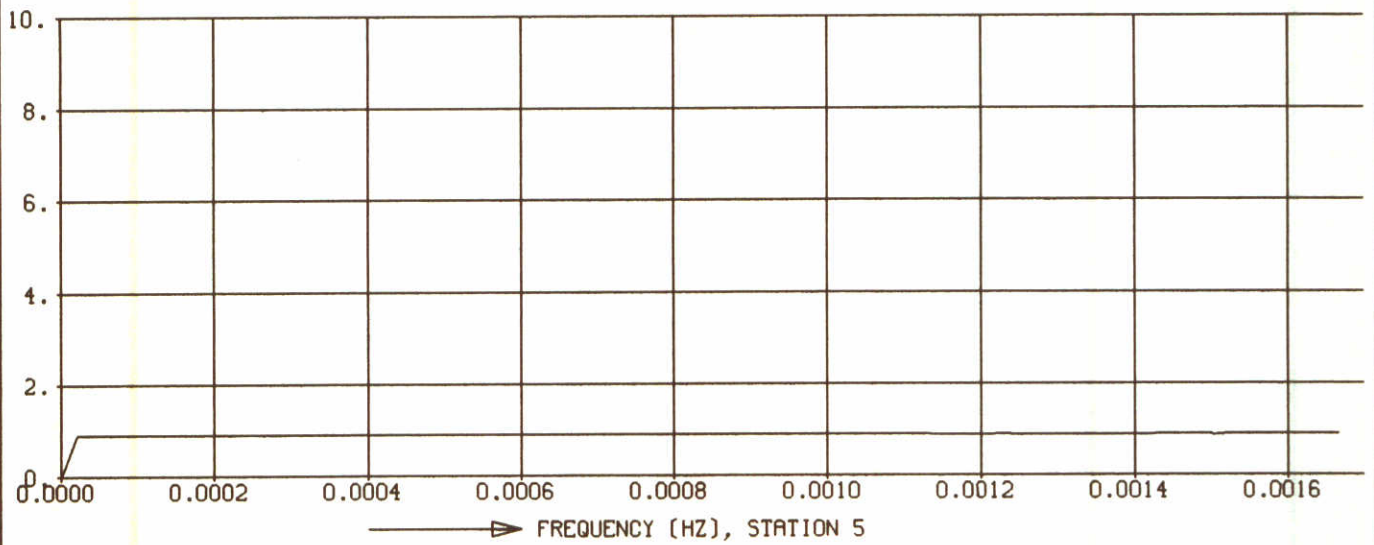
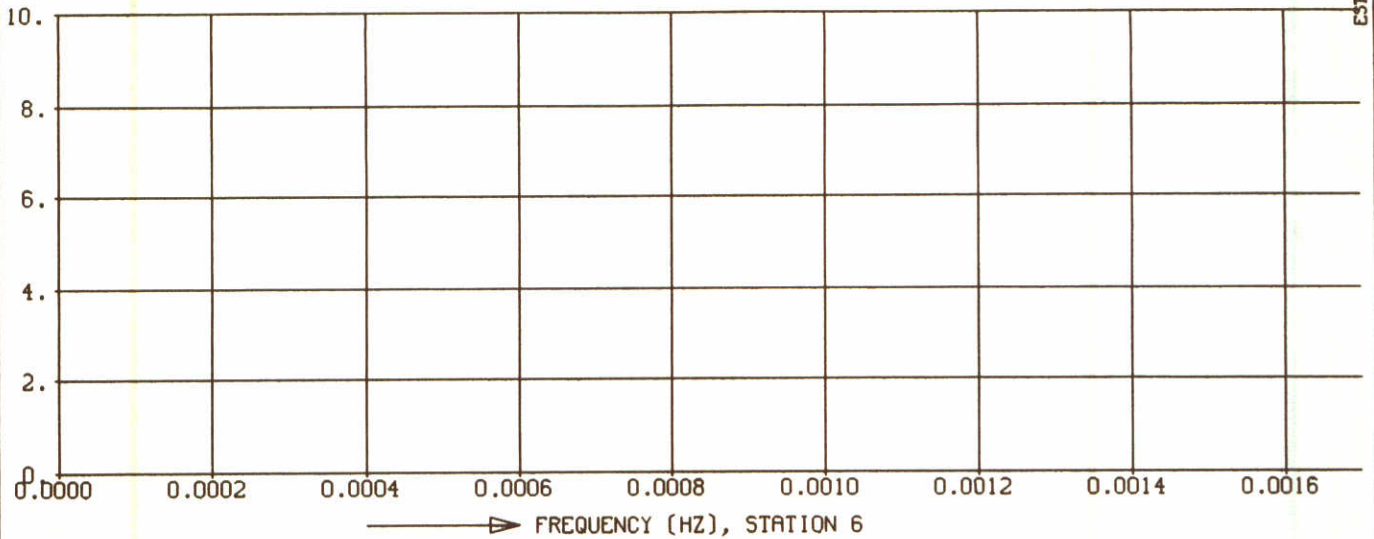


→ FREQUENCY (HZ), STATION 2



→ FREQUENCY (HZ), STATION 1

SEICHES EUROPOORT SPECTRA VAN STATIONS 1, 2, 3 IN MM	18-07-91	
	OPC - TSO	
DELFT HYDRAULICS		FIG.120



SEICHES EUROPOORT

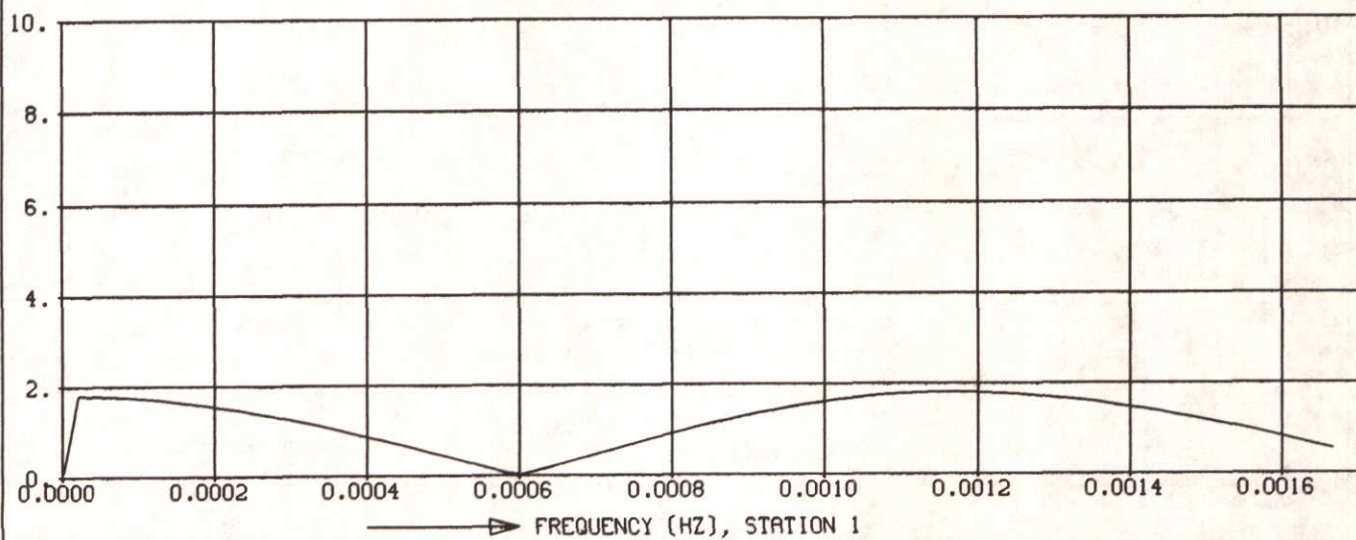
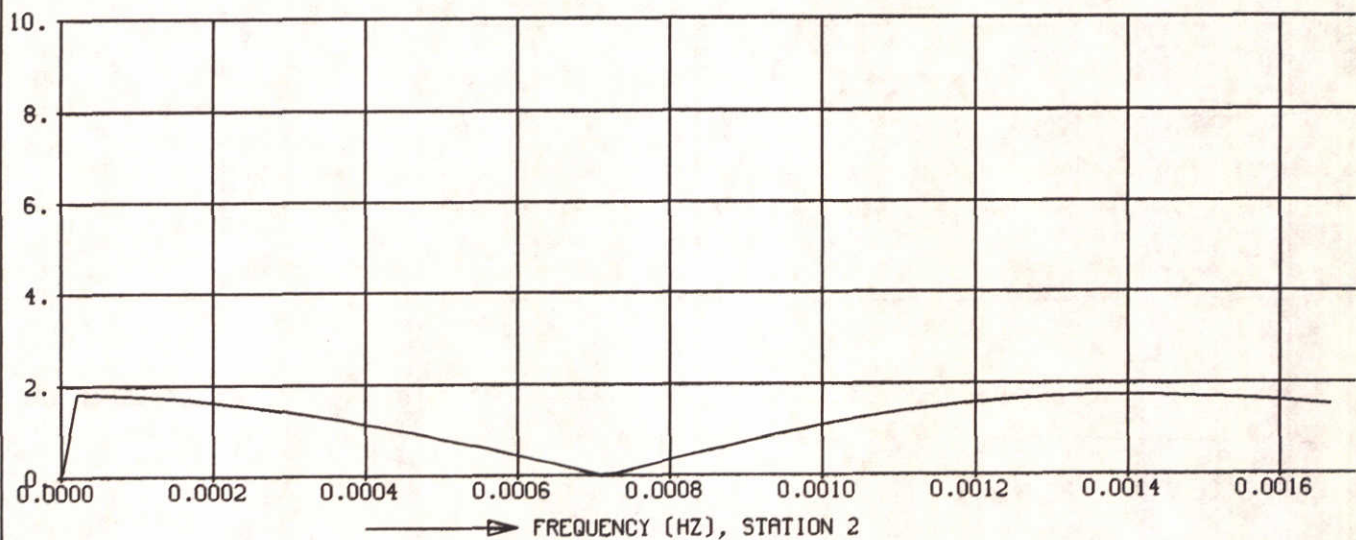
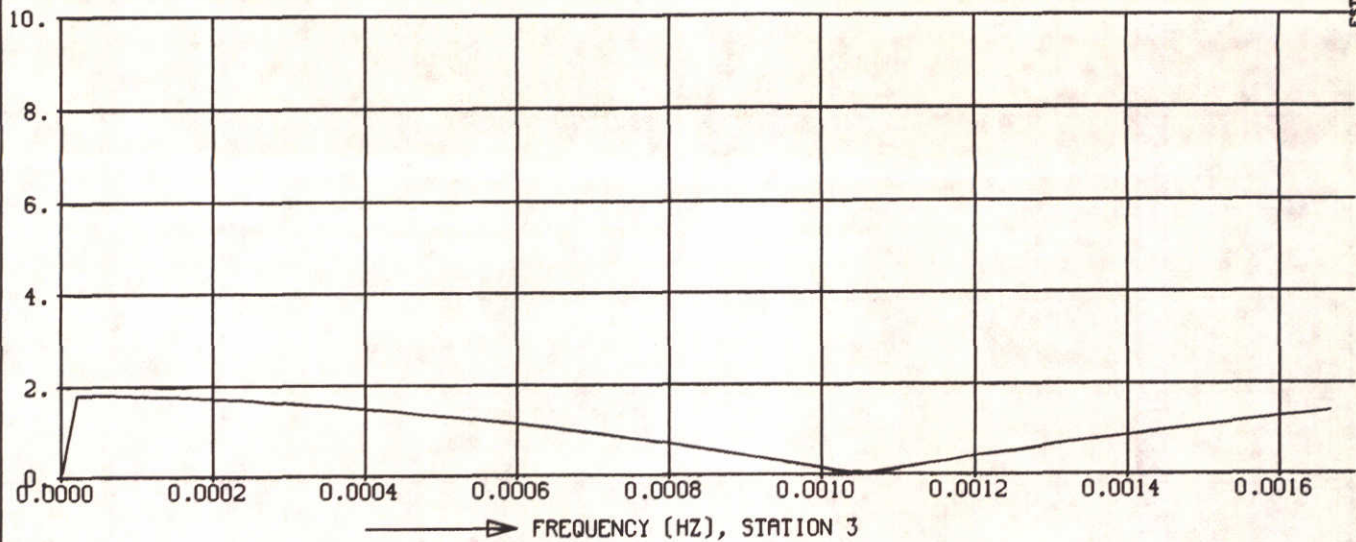
18-07-91

SPECTRA VAN STATIONS 4, 5 IN MM

OPC - TSO

DELFT HYDRAULICS

FIG. 121



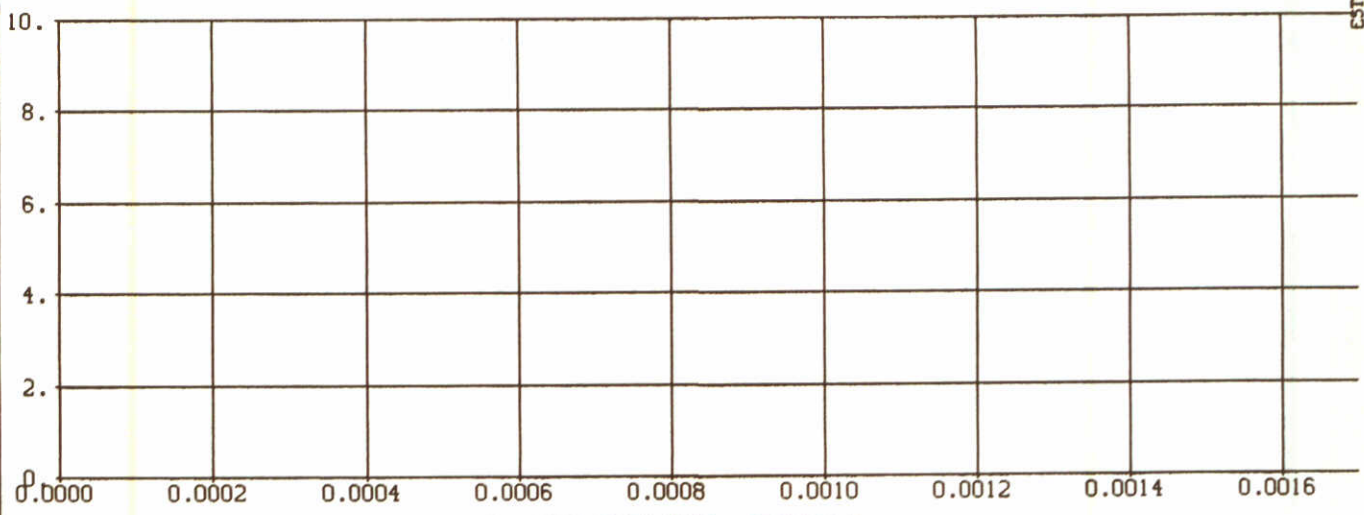
SEICHES EUROPOORT
SPECTRA VAN STATIONS 1, 2, 3 IN MM

19-07-91

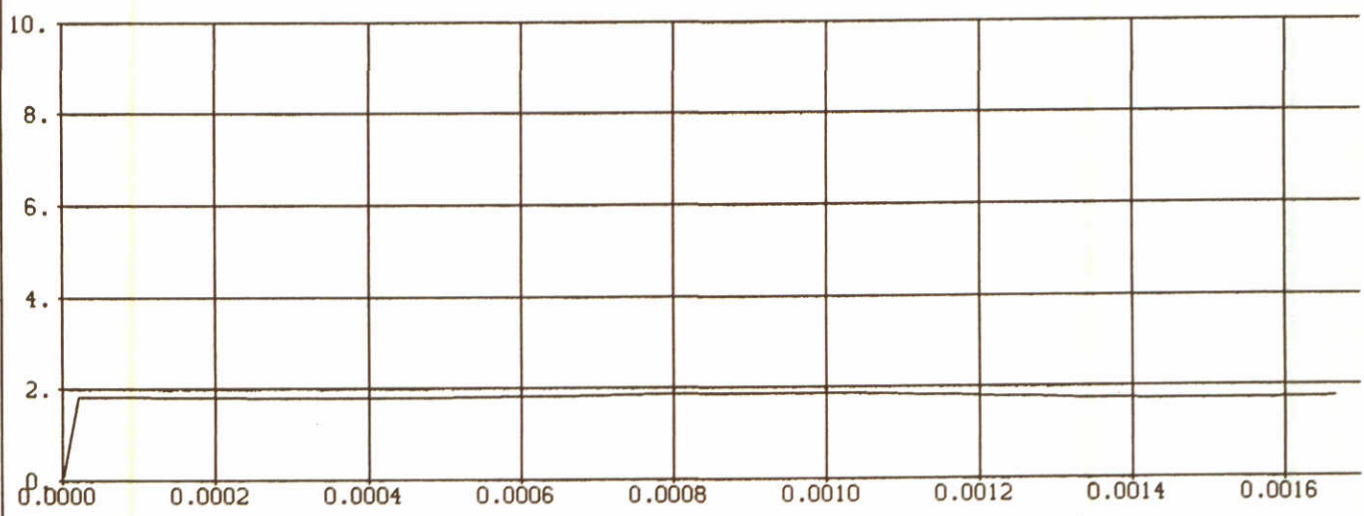
OPC - TSD

DELFT HYDRAULICS

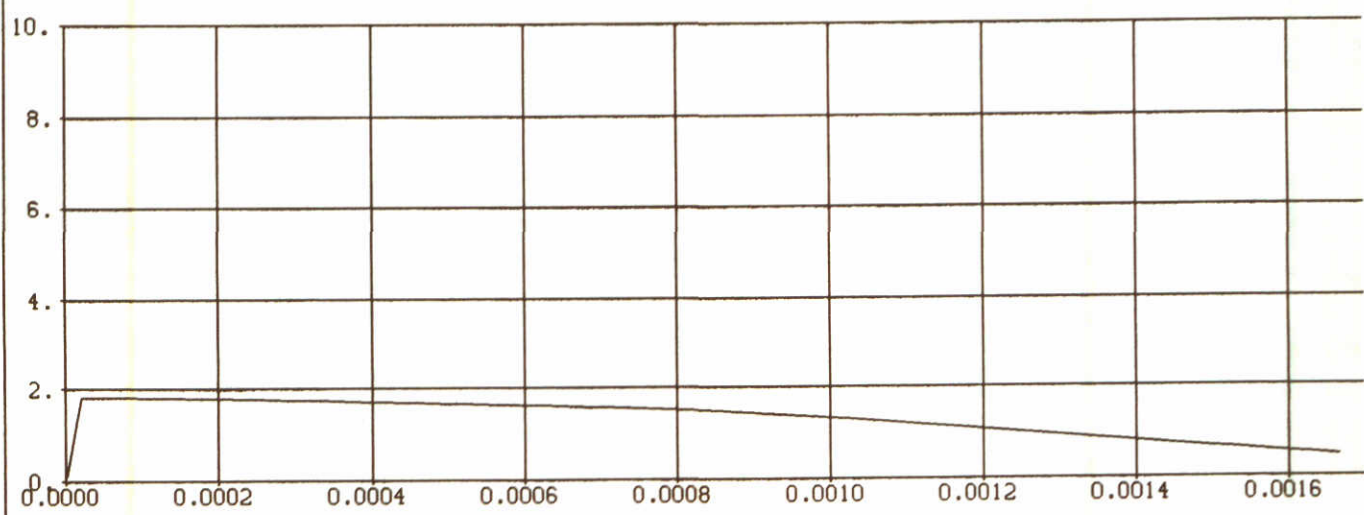
FIG.122



→ FREQUENCY (HZ), STATION 6



→ FREQUENCY (HZ), STATION 5



→ FREQUENCY (HZ), STATION 4

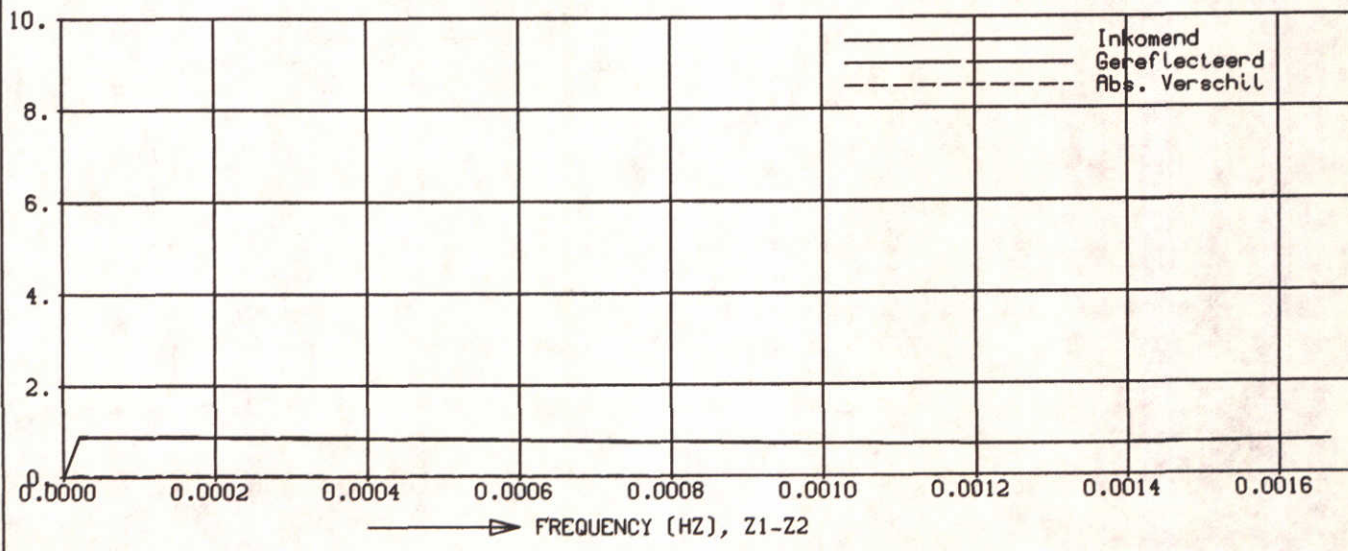
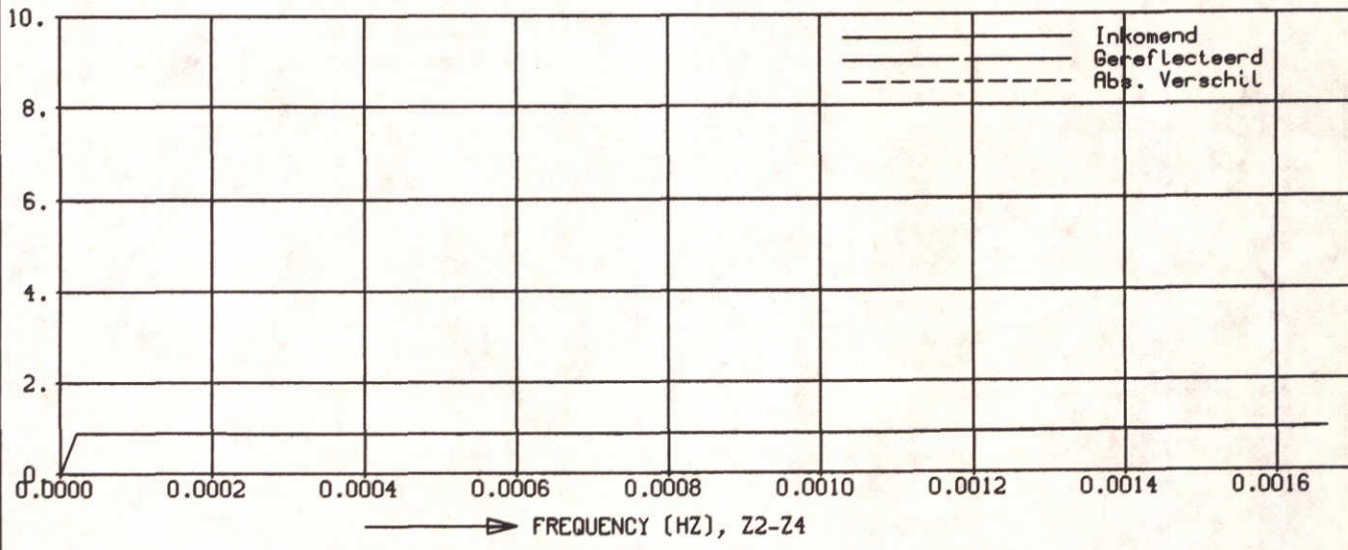
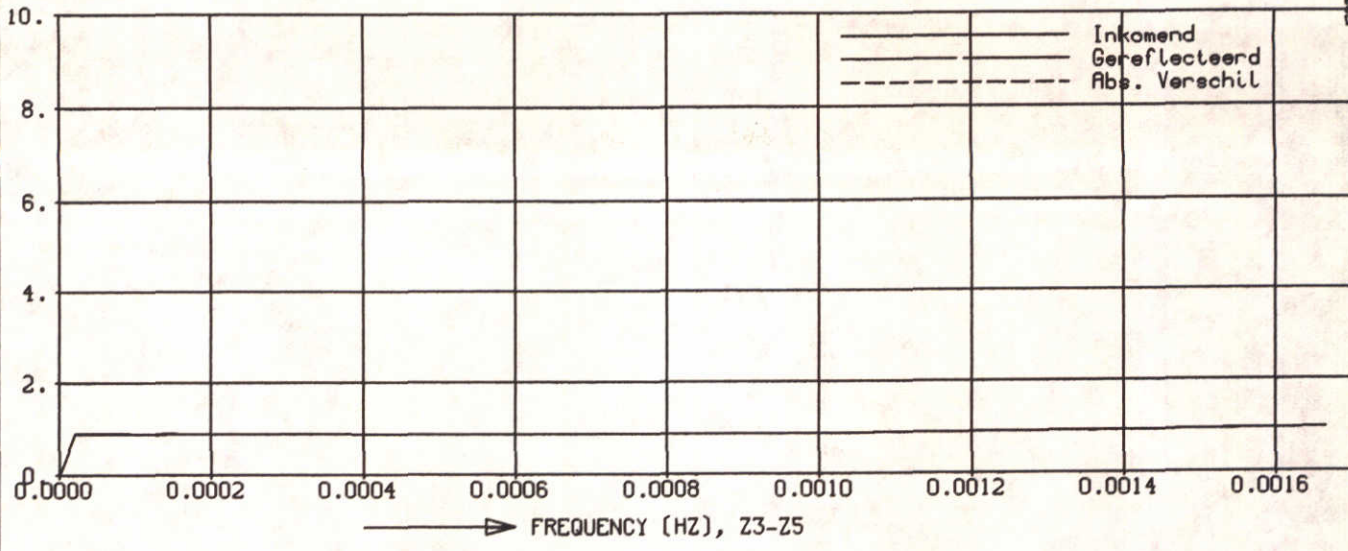
SEICHES EUROPOORT
SPECTRA VAN STATIONS 4, 5 IN MM

19-07-91

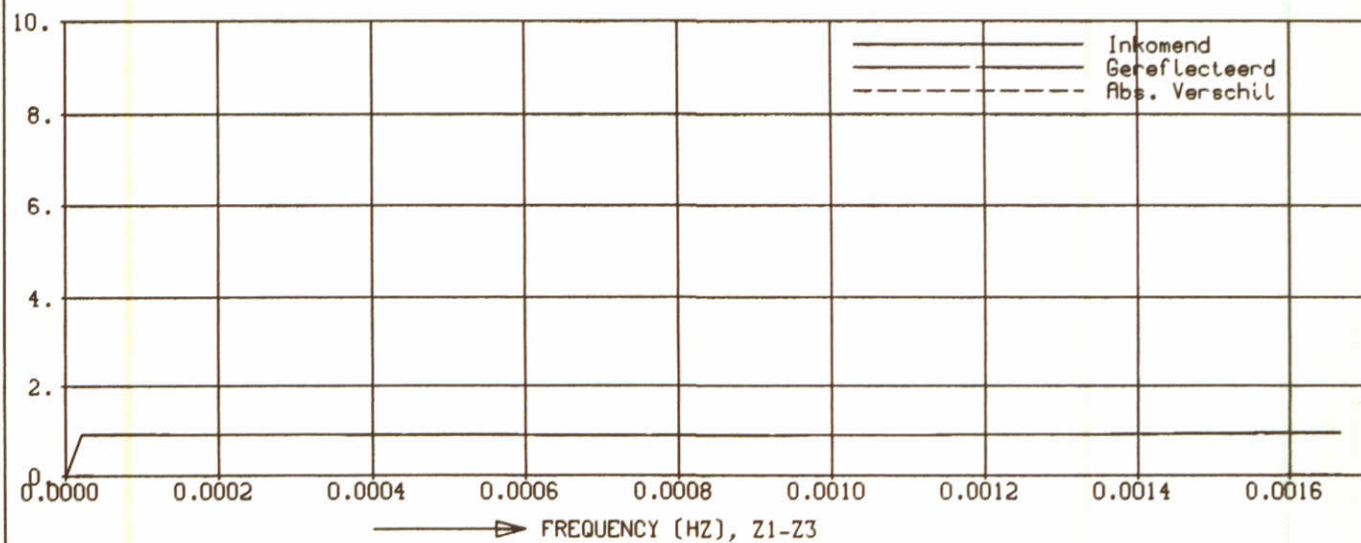
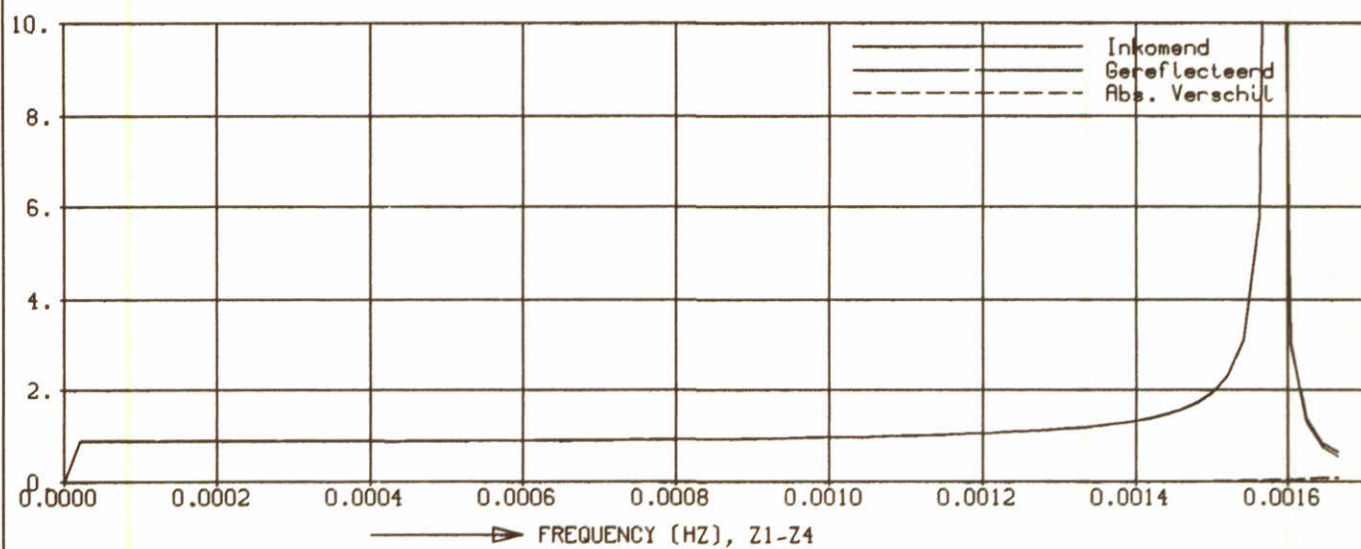
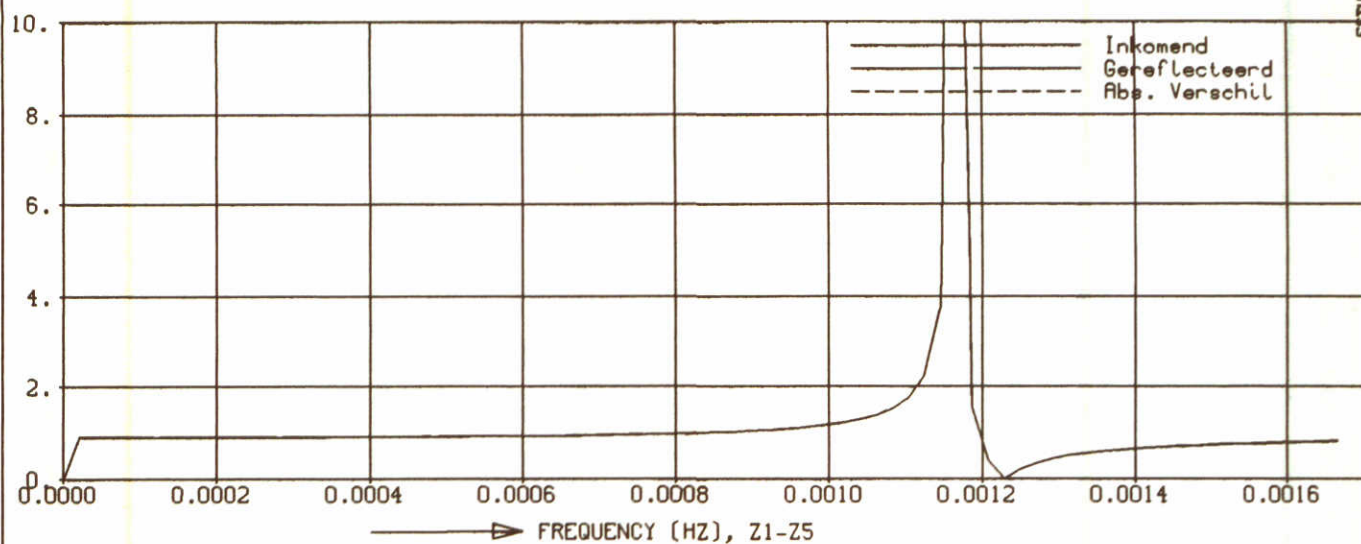
OPC - TSD

DELFT HYDRAULICS

FIG.123



SEICHES EUROPOORT GESCHEIDEN SPECTRA IN MM	datum	
	OPC - TST	
DELFT HYDRAULICS		FIG.124



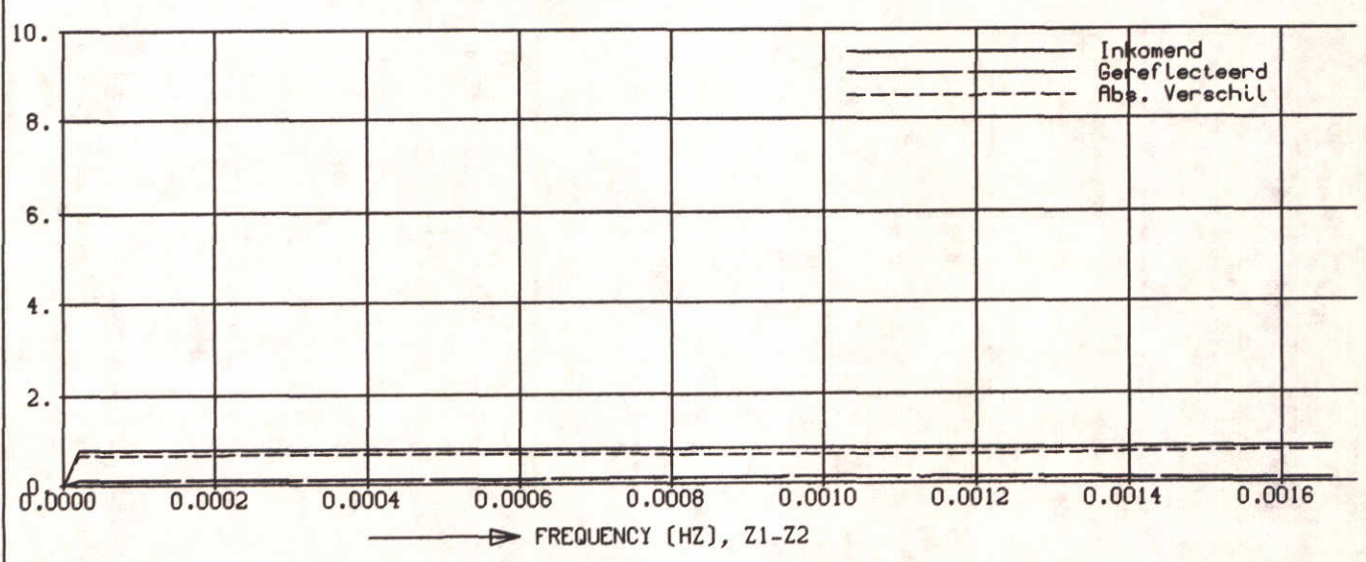
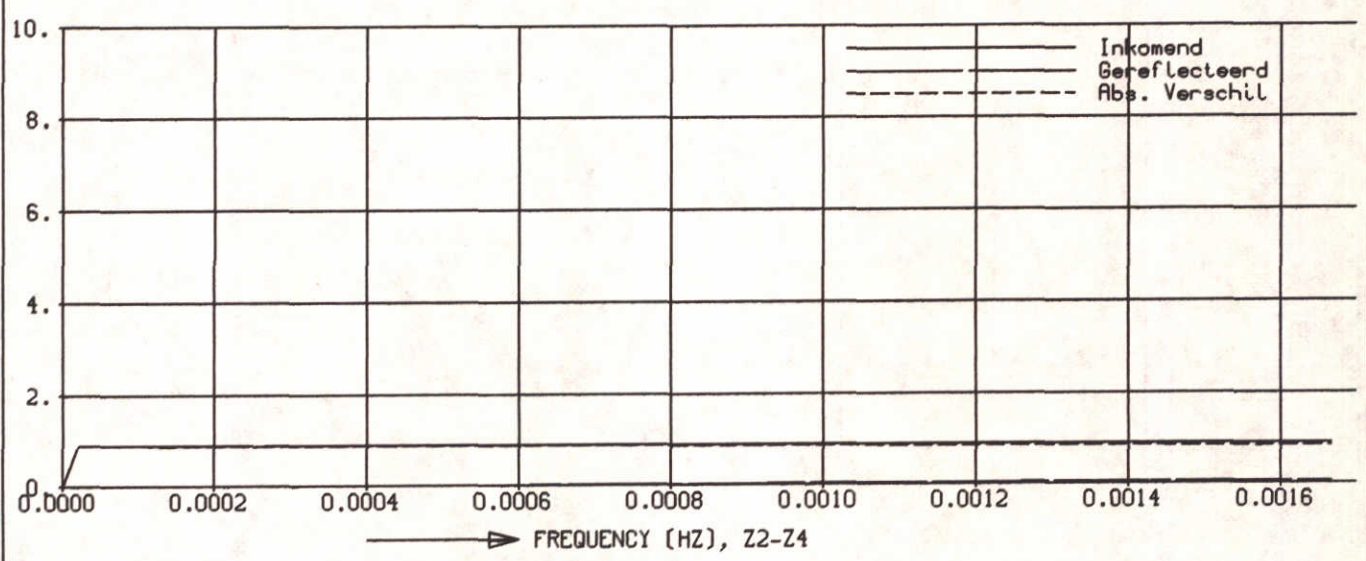
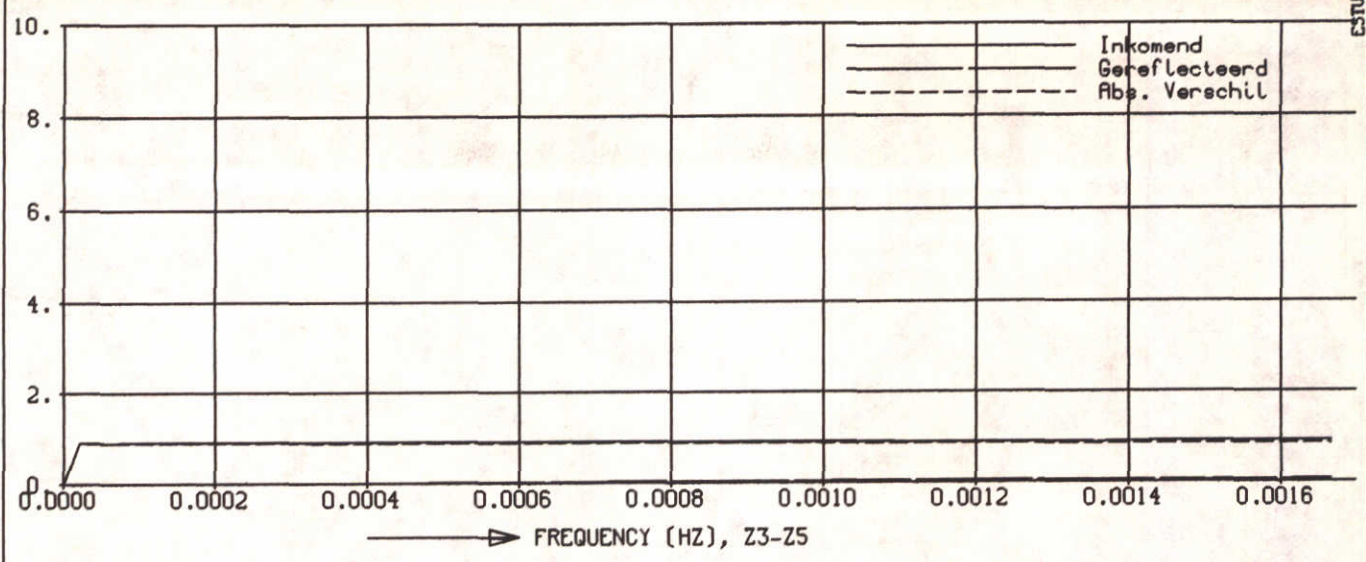
SEICHES EUROPOORT
 GESCHIEDEN SPECTRA IN MM

datum

OPC - TST

DELFT HYDRAULICS

FIG.125



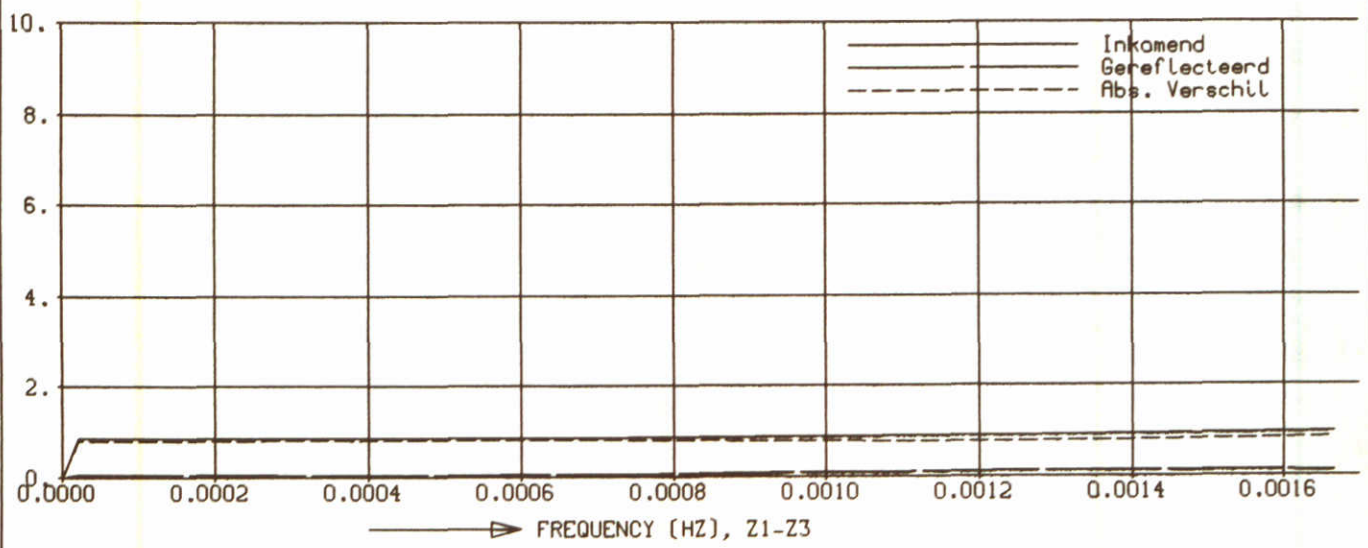
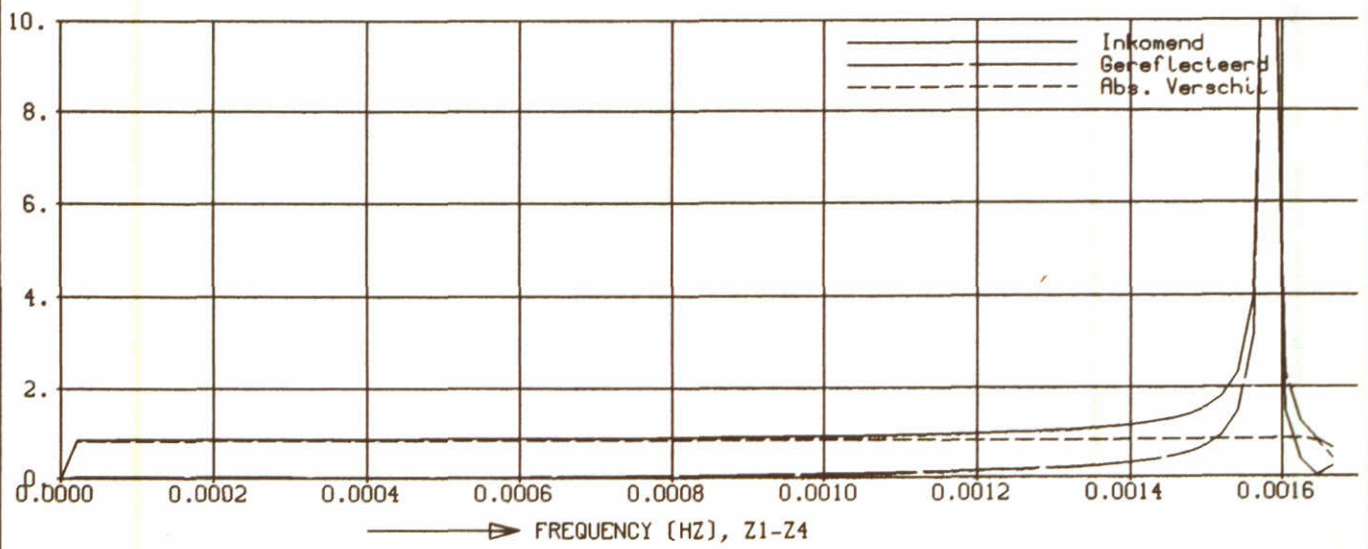
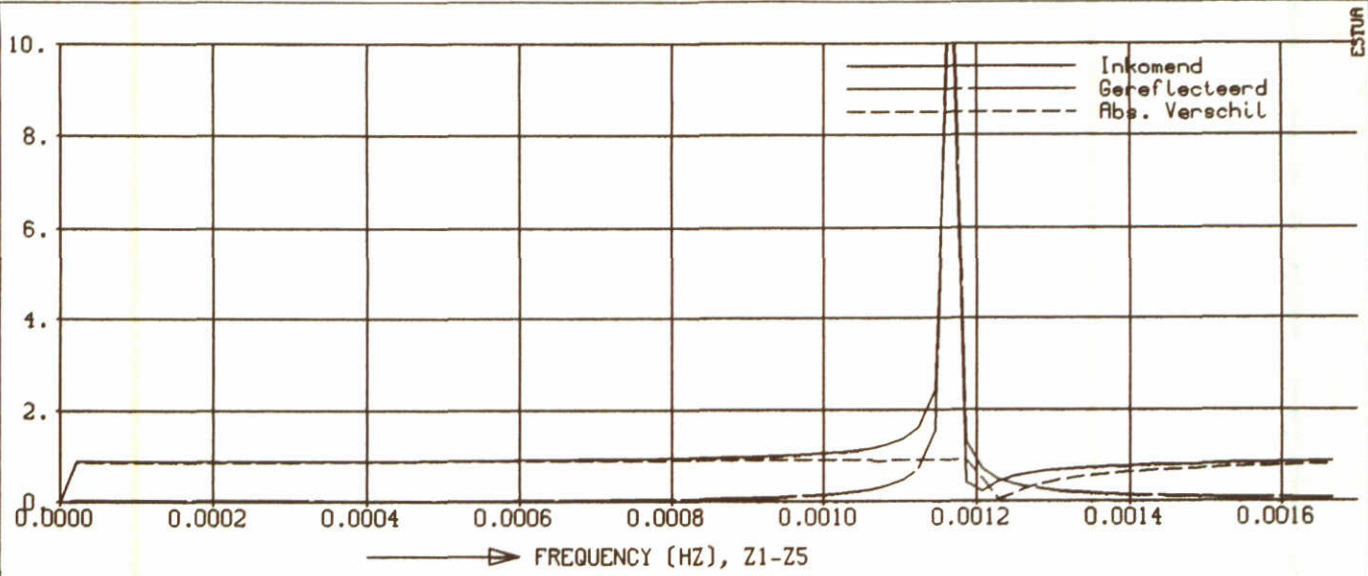
SEICHES EUROPOORT
GESCHEIDEN SPECTRA IN MM

datum

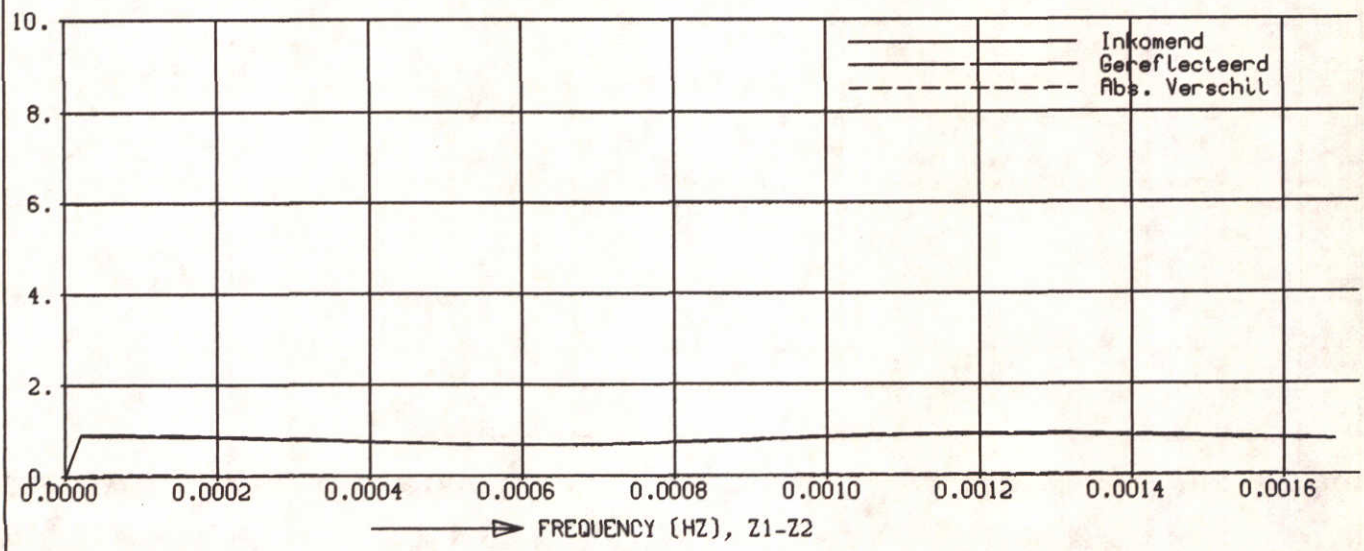
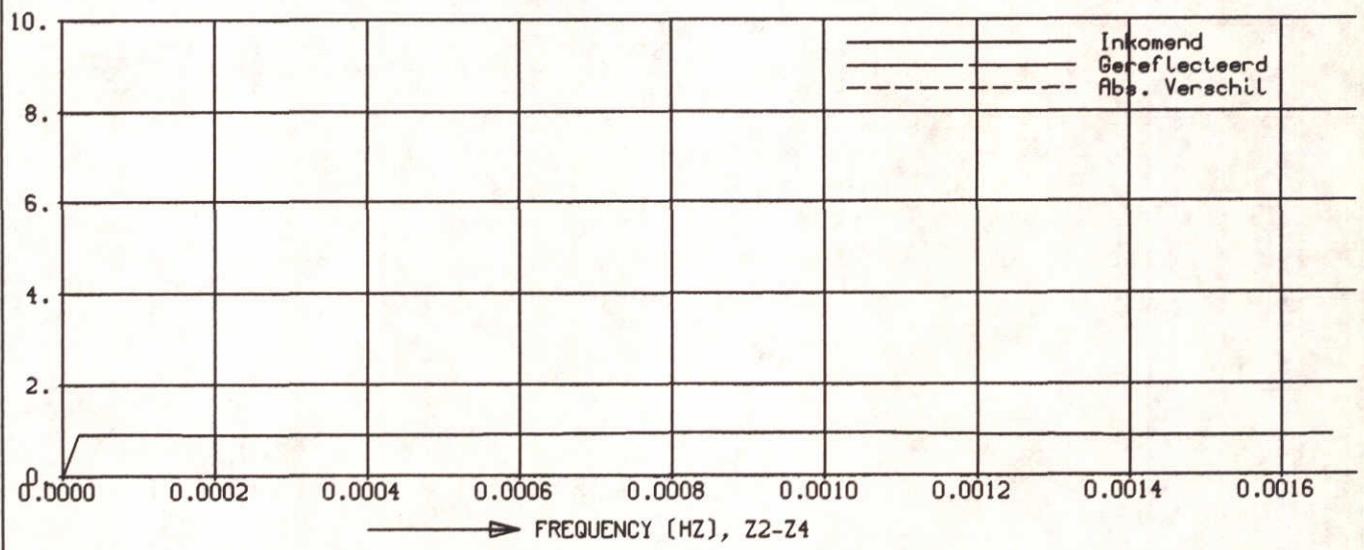
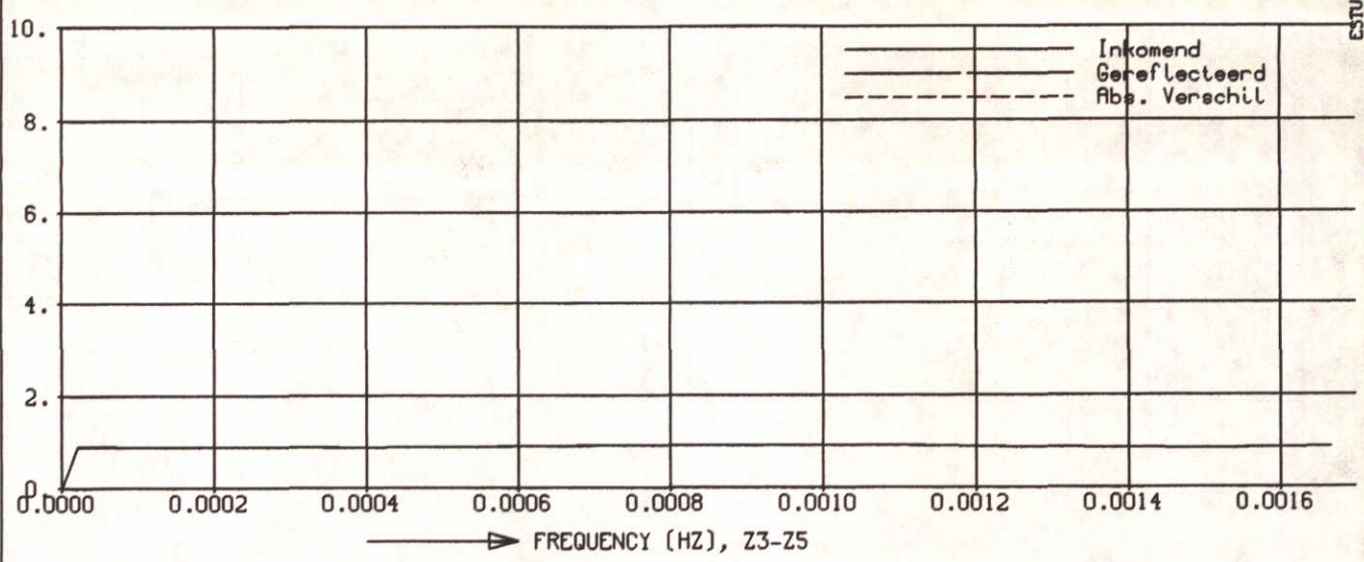
OPC - TSO

DELFT HYDRAULICS

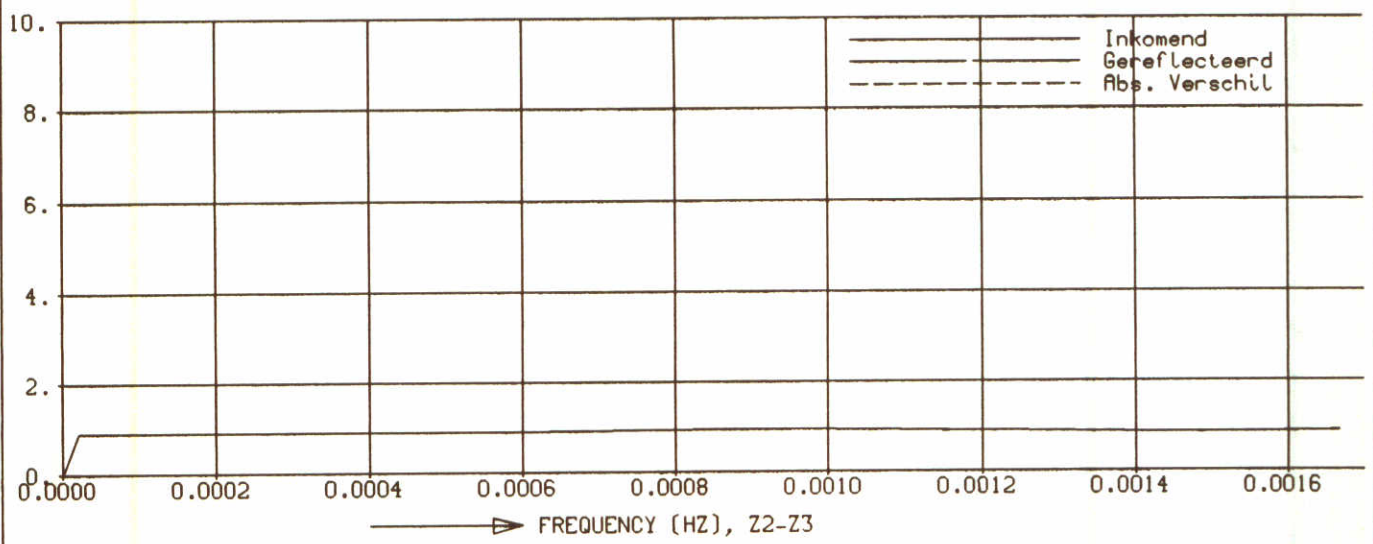
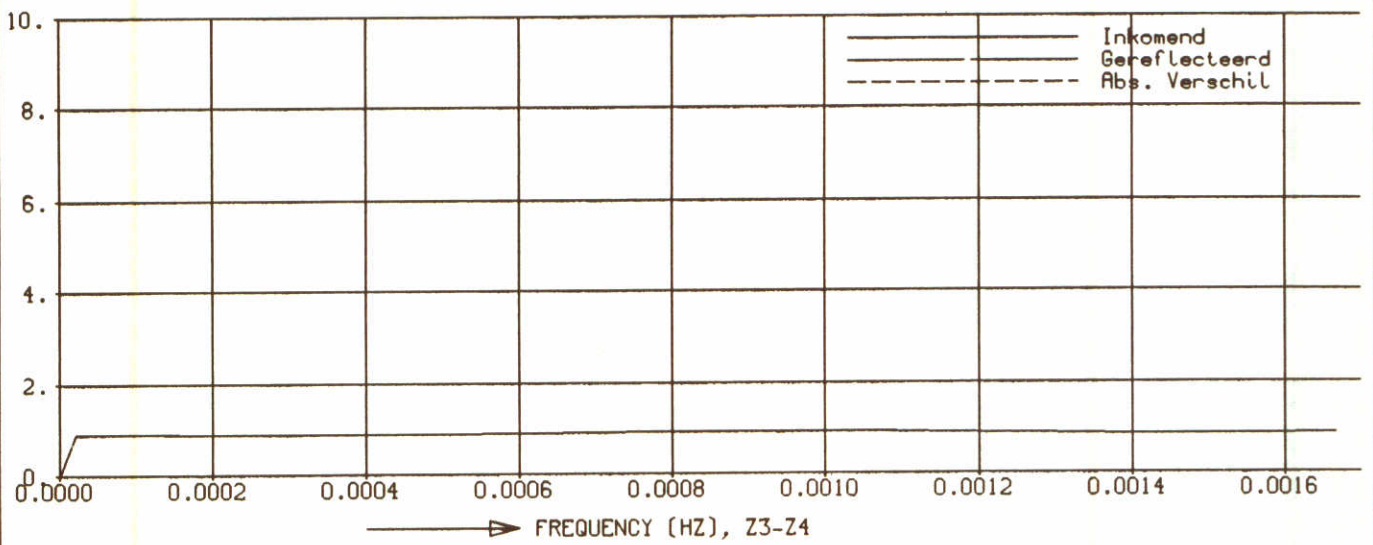
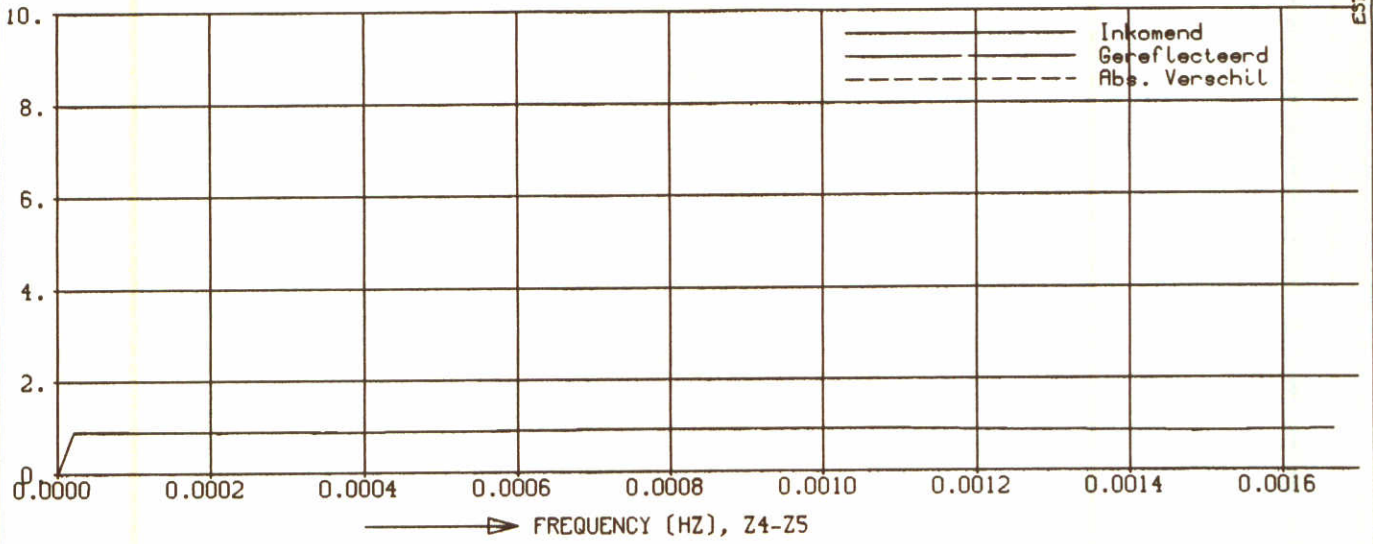
FIG.126



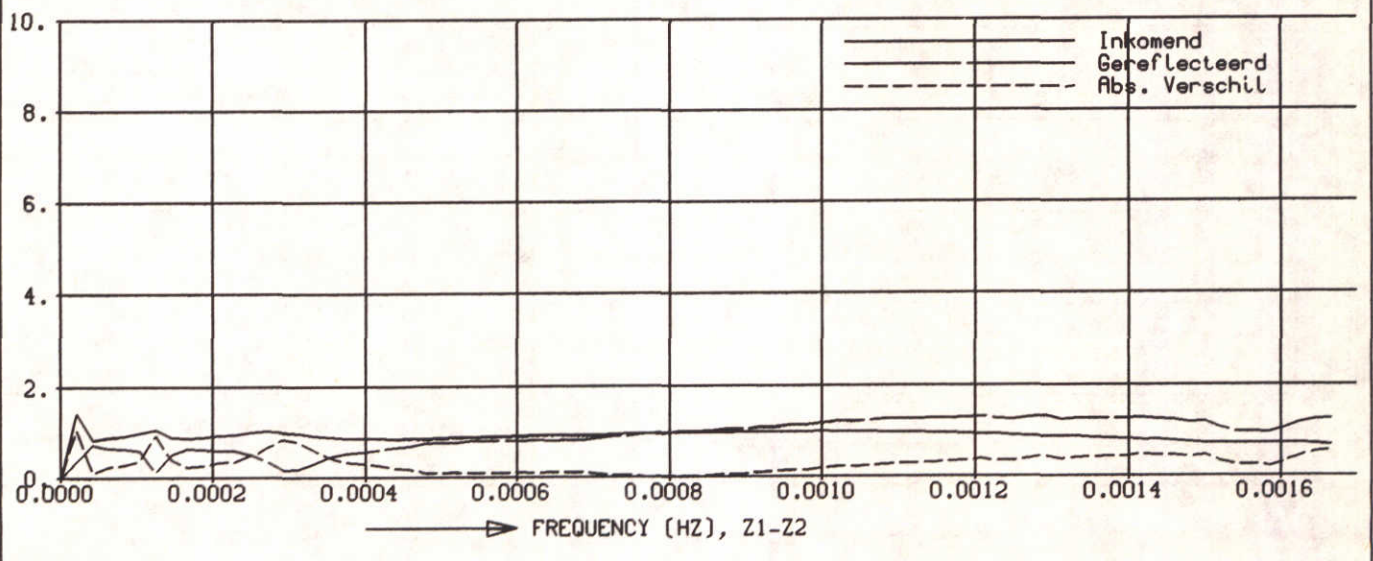
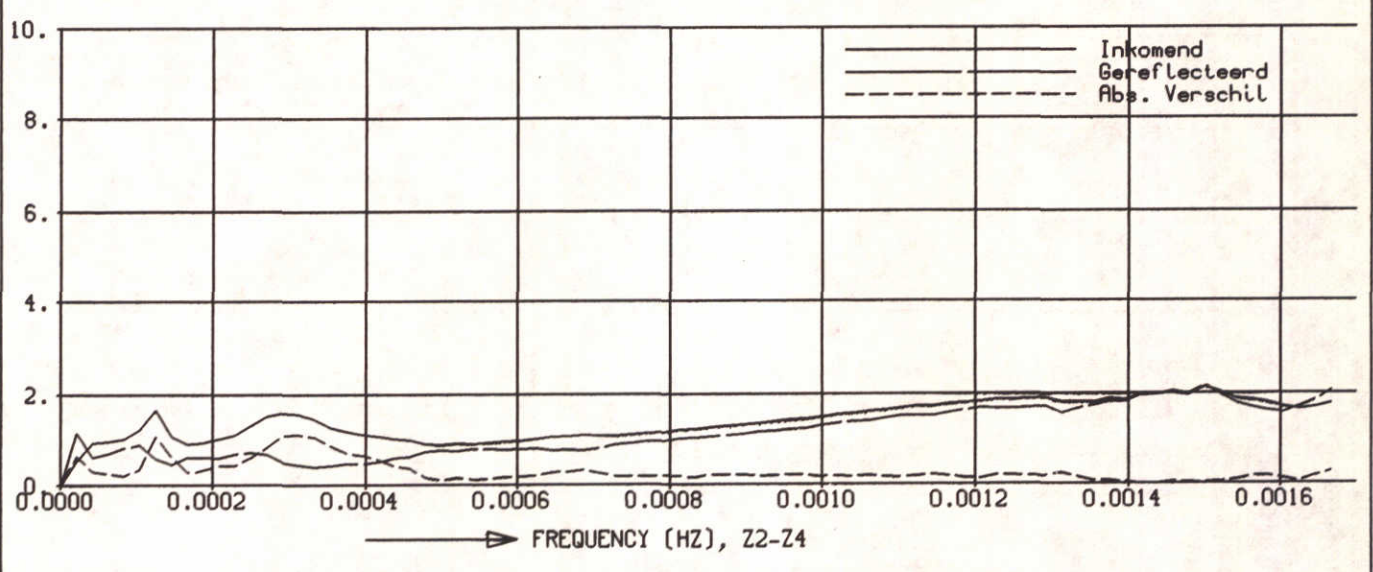
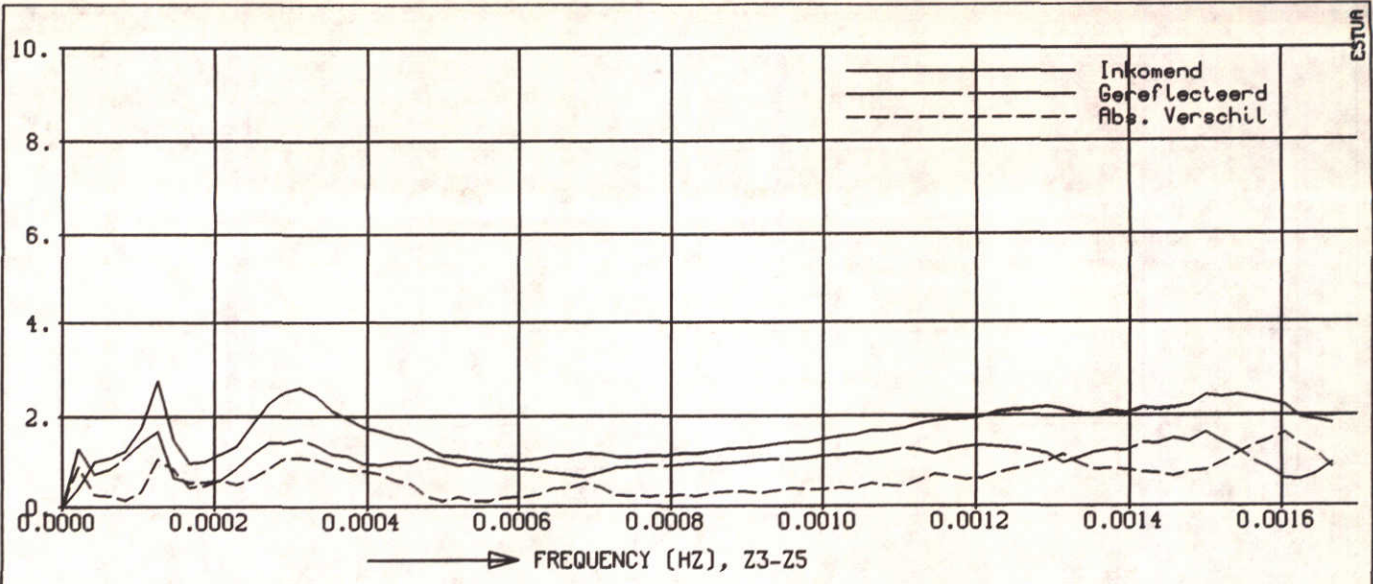
SEICHES EUROPOORT GESCHEIDEN SPECTRA IN MM	datum	
	OPC - TSO	
DELFT HYDRAULICS		FIG.127



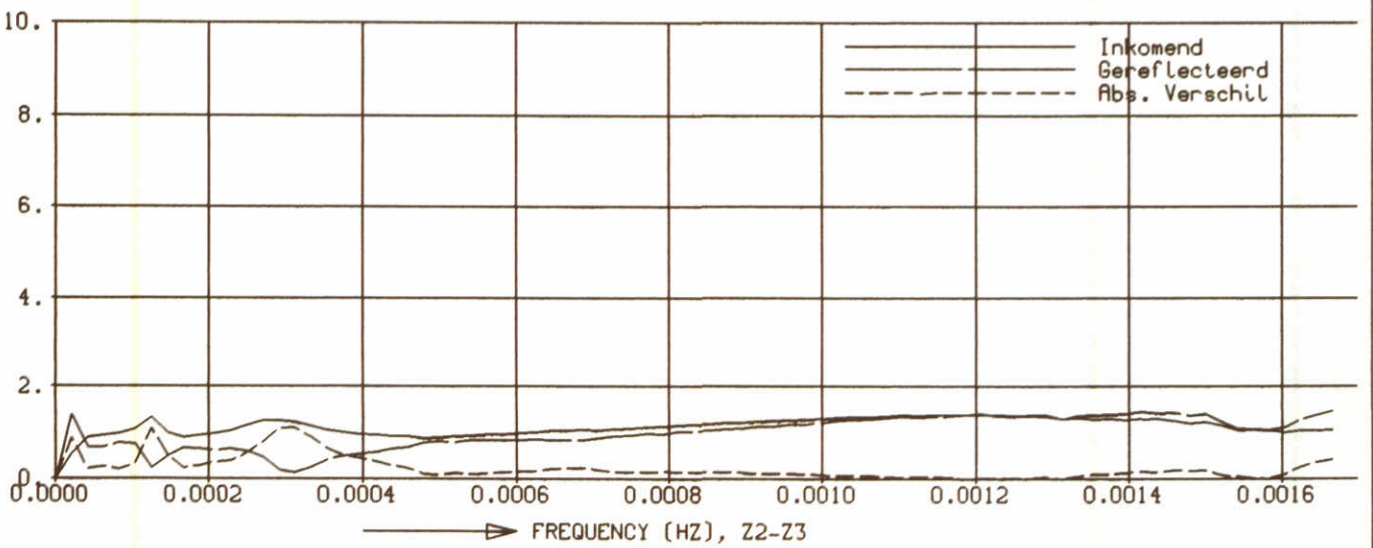
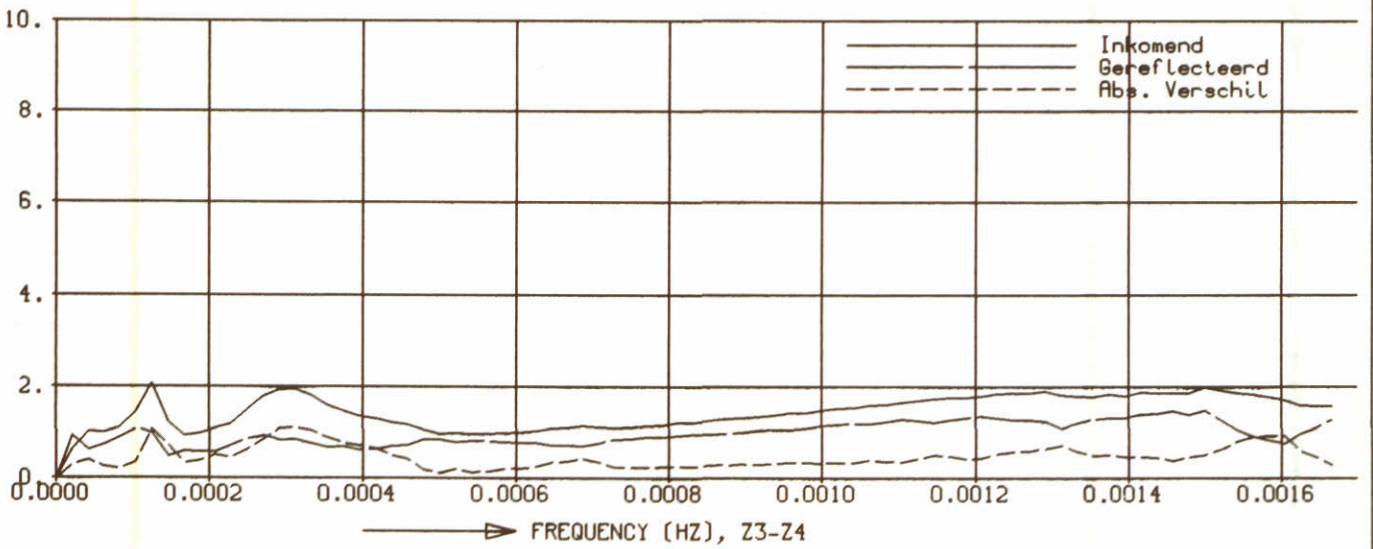
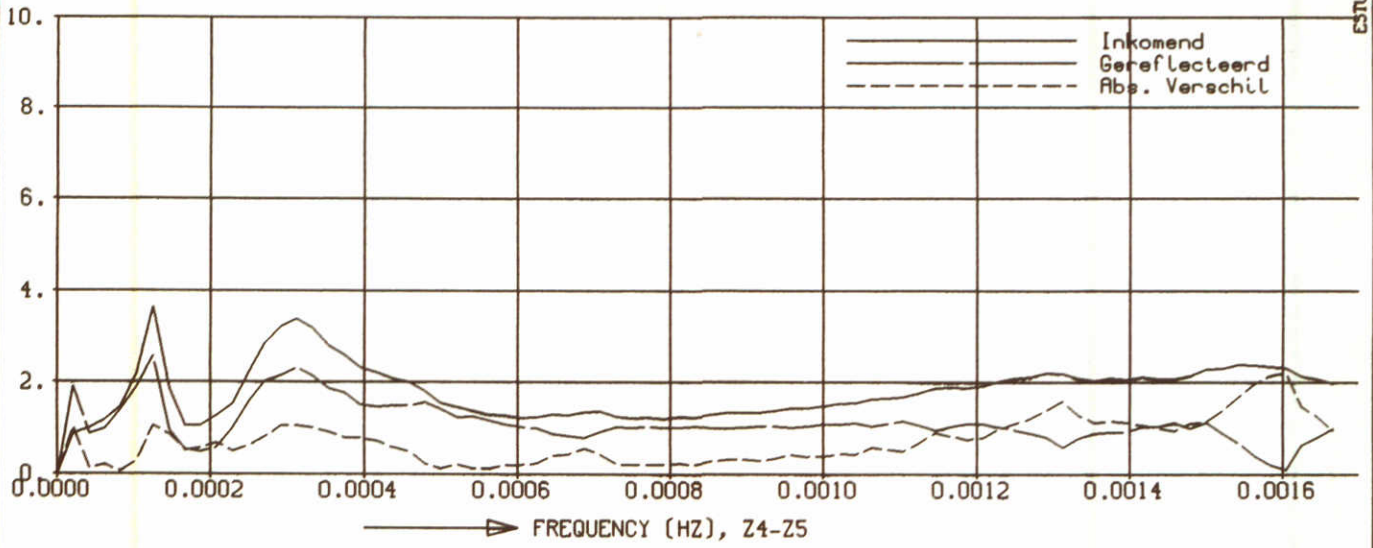
SEICHES EUROPOORT GESCHEIDEN SPECTRA IN MM	datum	
	OPC - TSD	
DELFT HYDRAULICS		FIG.128



SEICHES EUROPOORT GESCHEIDEN SPECTRA IN MM	datum	
	OPC - TSD	
DELFT HYDRAULICS		FIG.129



SEICHES EUROPOORT GESCHIEDEN SPECTRA IN MM	datum	
	OPC - SO 1	
DELFT HYDRAULICS		FIG. 130



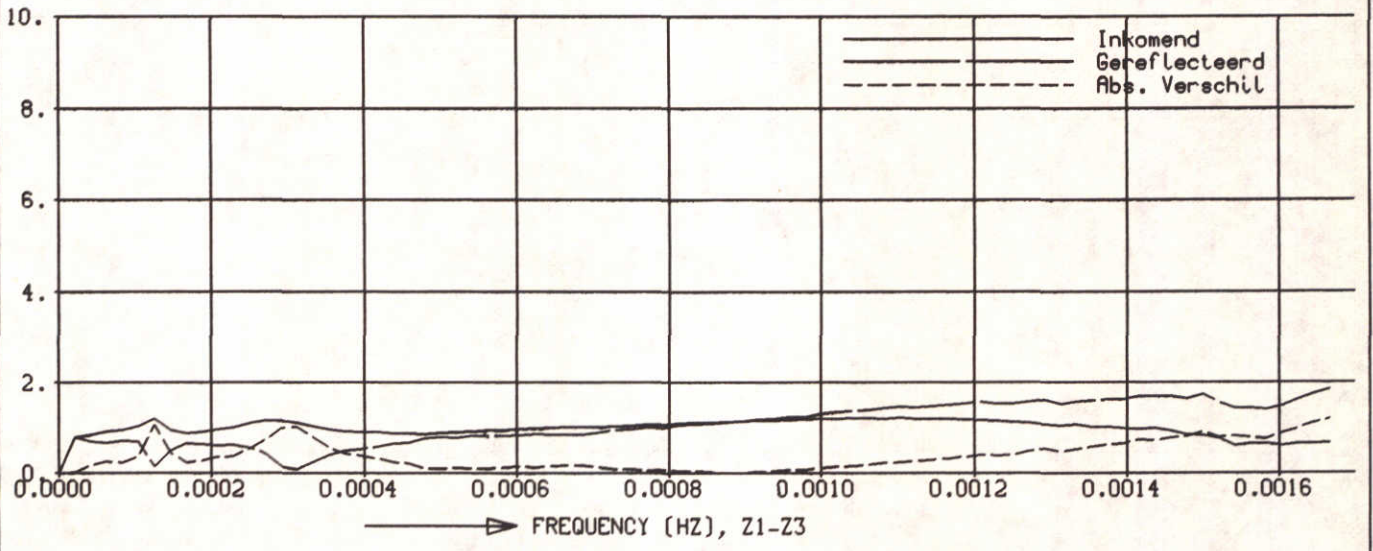
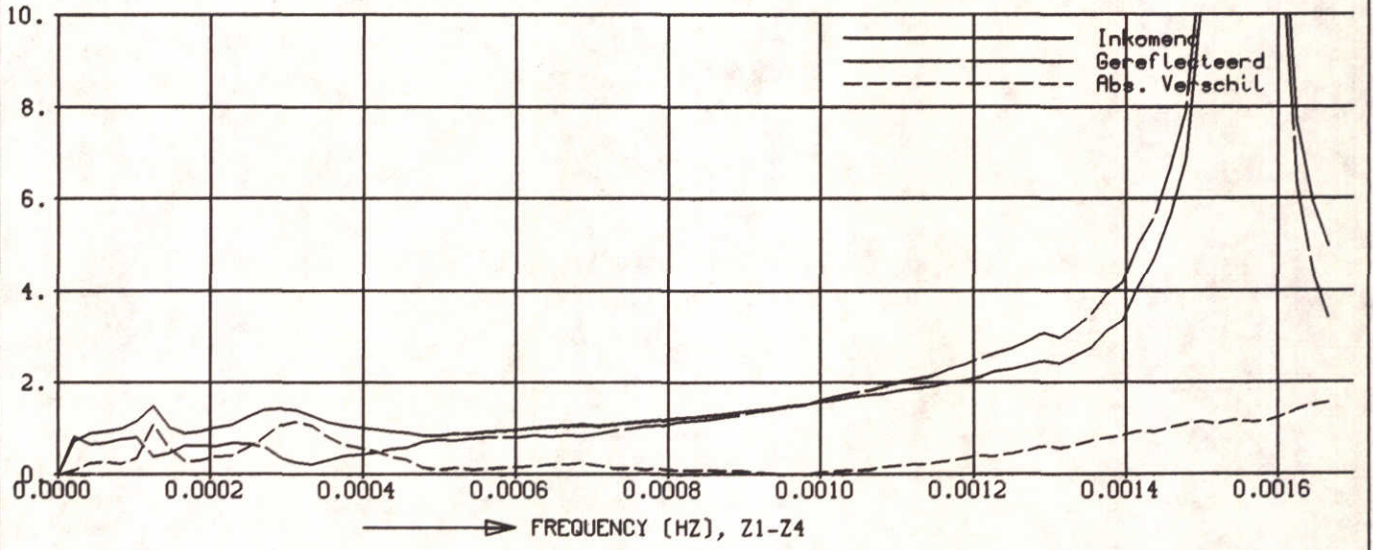
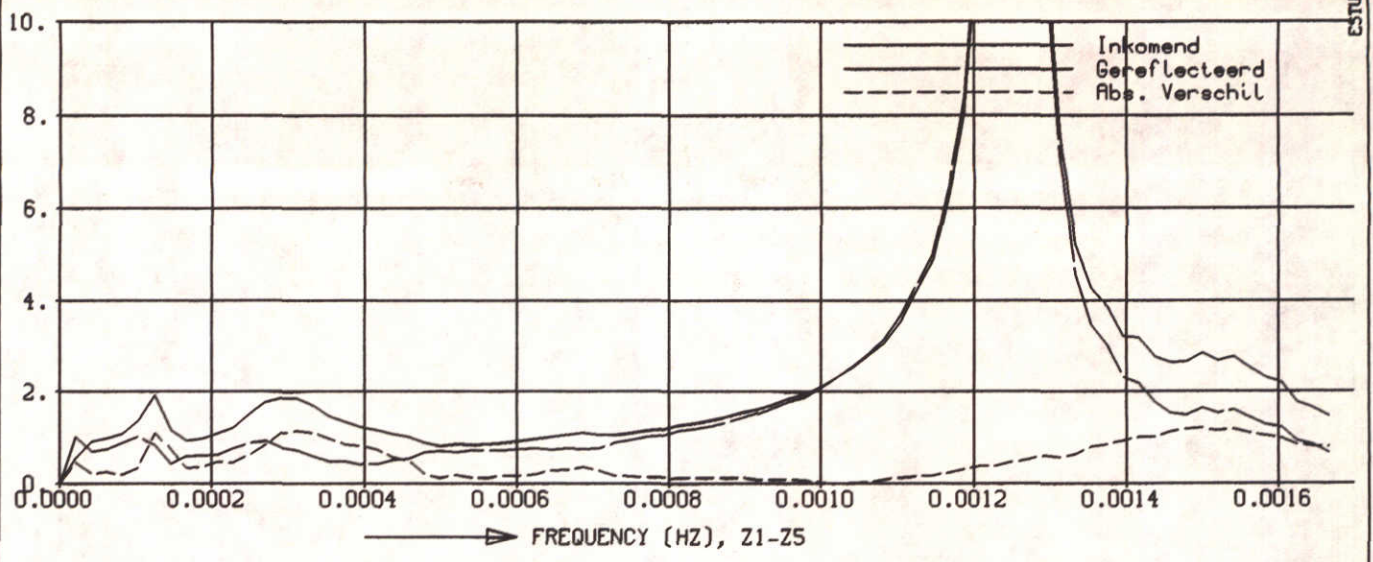
SEICHES EUROPOORT
 GESCHIEDEN SPECTRA IN MM

datum

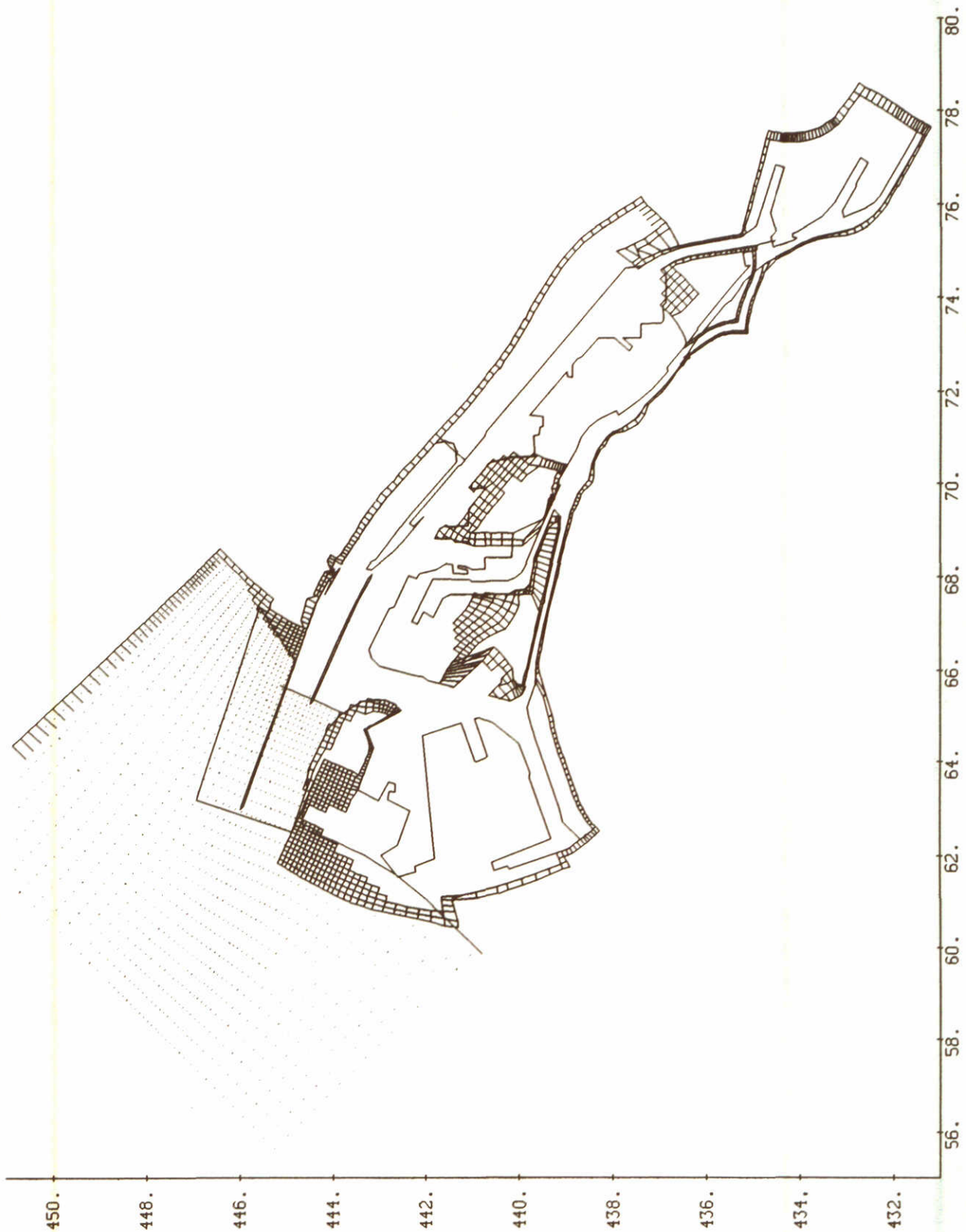
OPC - SO 1

DELFT HYDRAULICS

FIG. 131



SEICHES EUROPOORT GESCHEIDEN SPECTRA IN MM	datum	
	OPC - SO1	
DELFT HYDRAULICS	FIG.132	



SEICHES EUROPOORT
 VECTORVELD 1 CM - 4.0 M/S

07/24/90

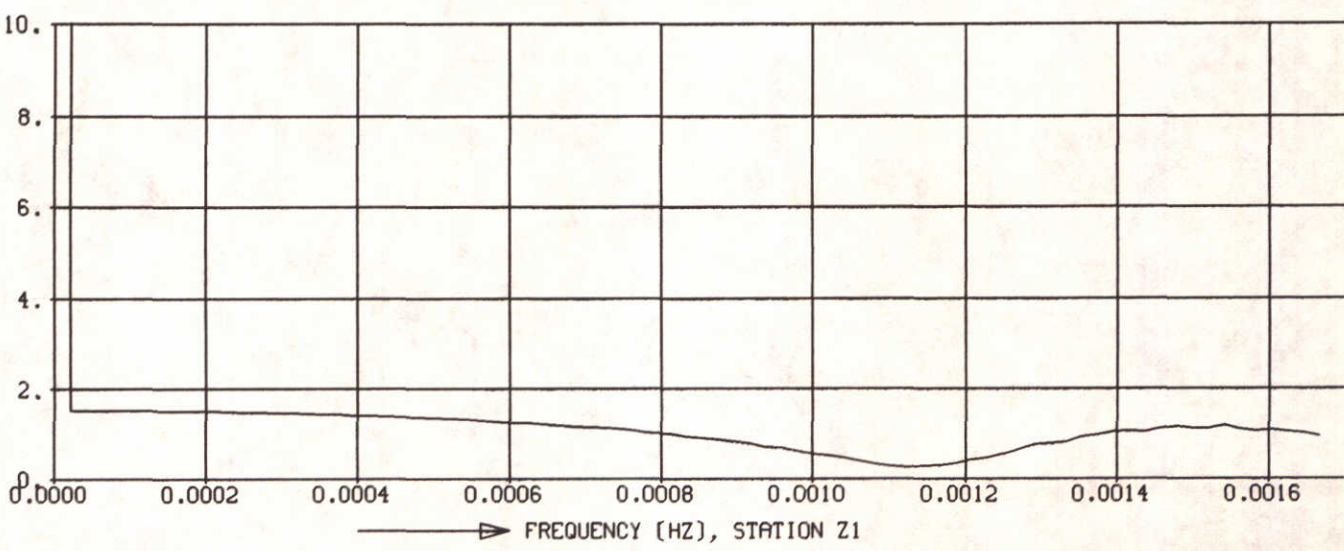
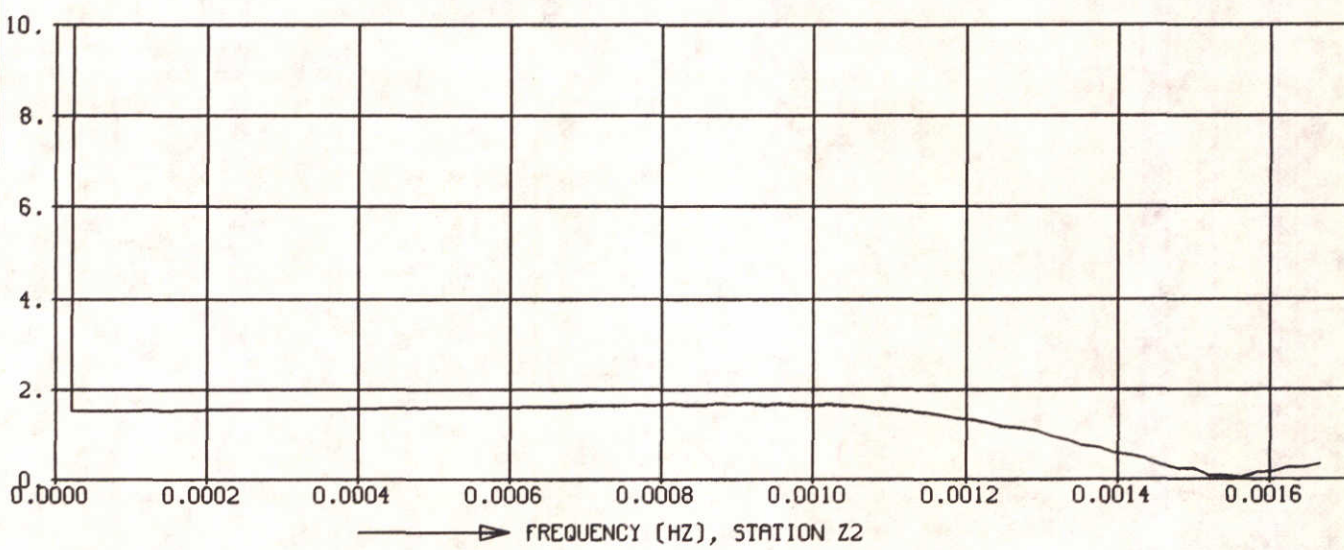
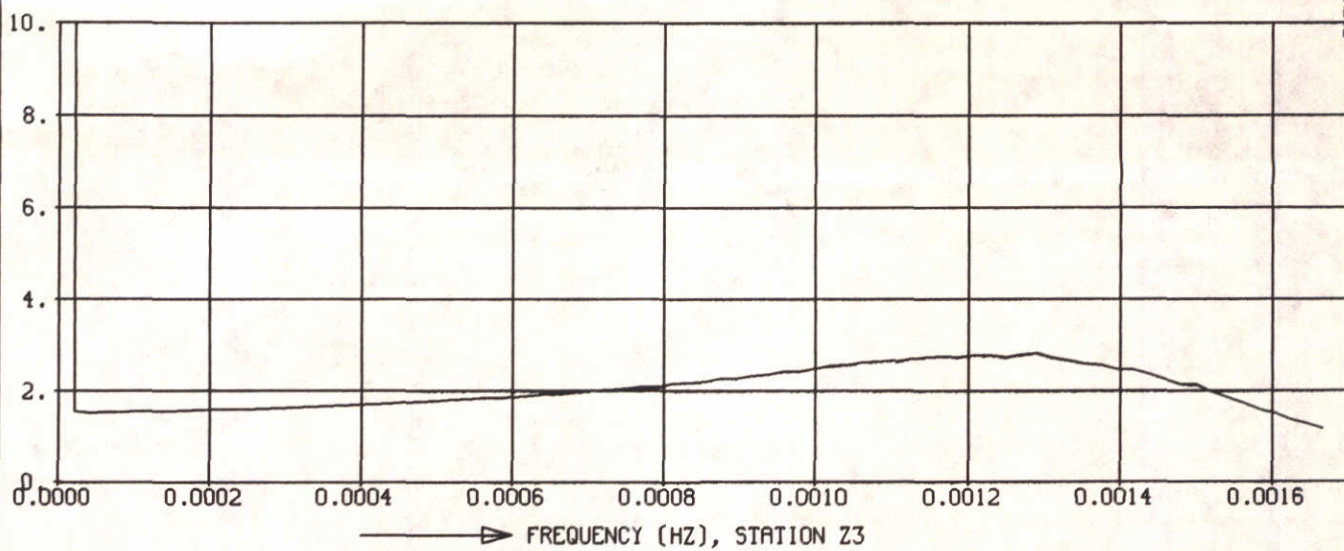
veld 1

OPC - sd2

DELFT HYDRAULICS

Z-434

FIG. 133



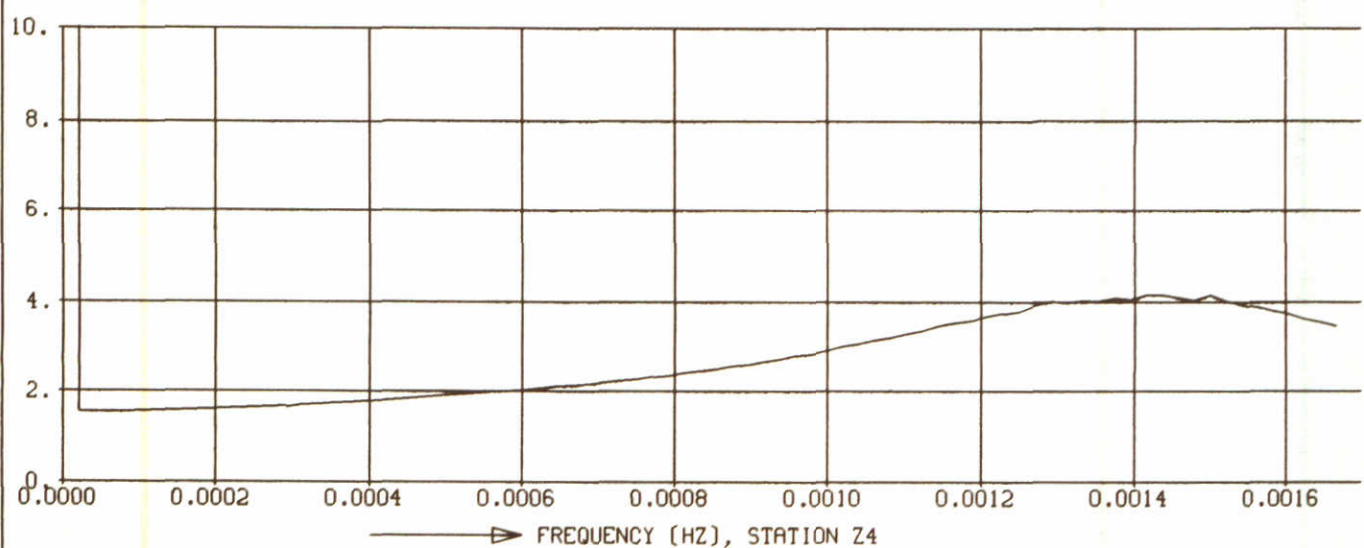
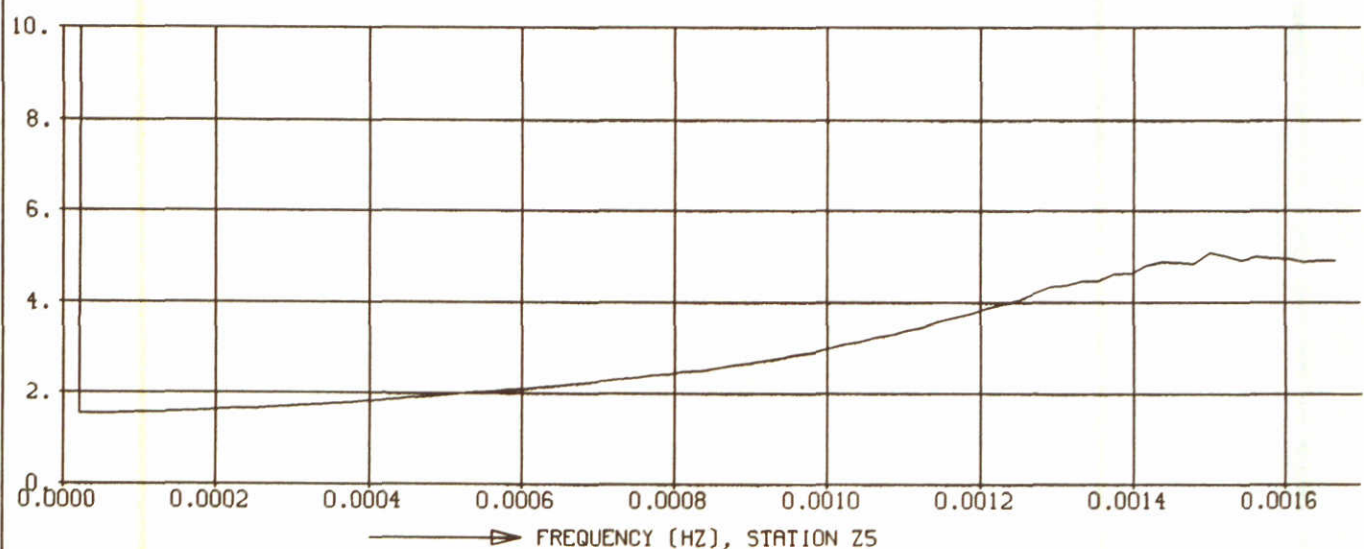
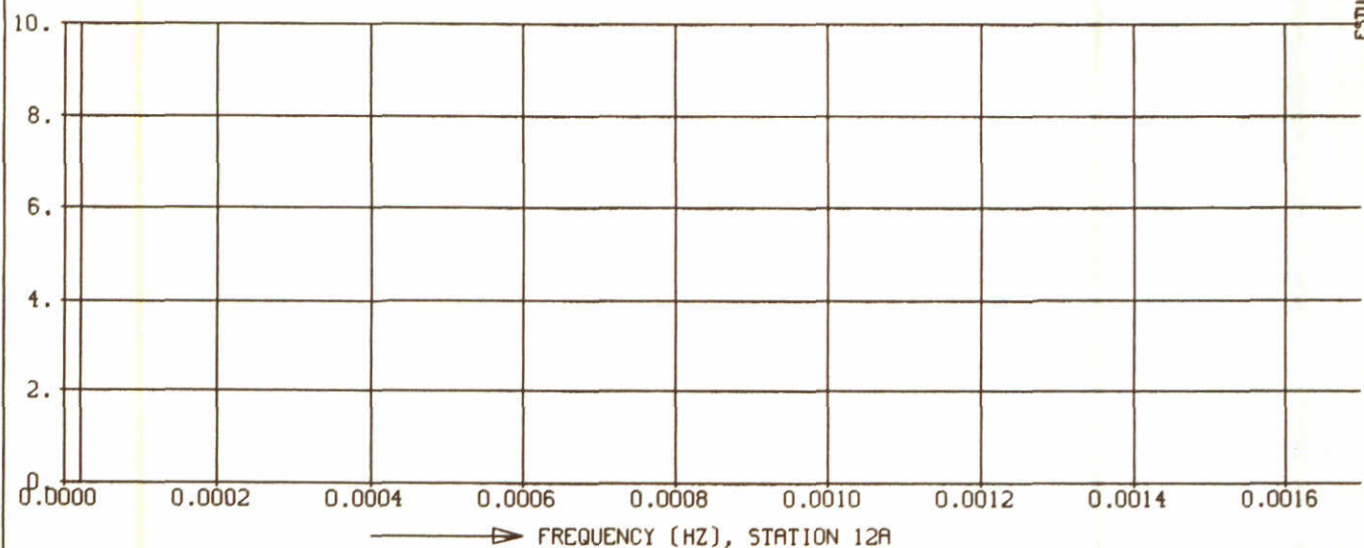
SEICHES EUROPOORT
SPECTRA VAN STATIONS Z1, Z2, Z3 IN MM

07/24/90

OPC - sd2

DELFT HYDRAULICS

FIG. 134



SEICHES EUROPOORT
SPECTRA VAN STATIONS Z4, Z5, 12A IN MM

07/24/90

OPC - sd2

DELFT HYDRAULICS

FIG. 135



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