FAP24

Government of the People's Republic of Bangladesh

Water Resources Planning Organization

European Commission

Delft Hydraulics

Danish Hydraulic Institute

Hydroland

Approtech

Osiris

RIVER SURVEY PROJECT

Special Report No.22

River Data Book January 1993 - March 1995

Part B.6: Mawa

October 1996

Special Report 22

River Data Book
January 1993 - March 1995

Part B.6: Mawa

October 1996

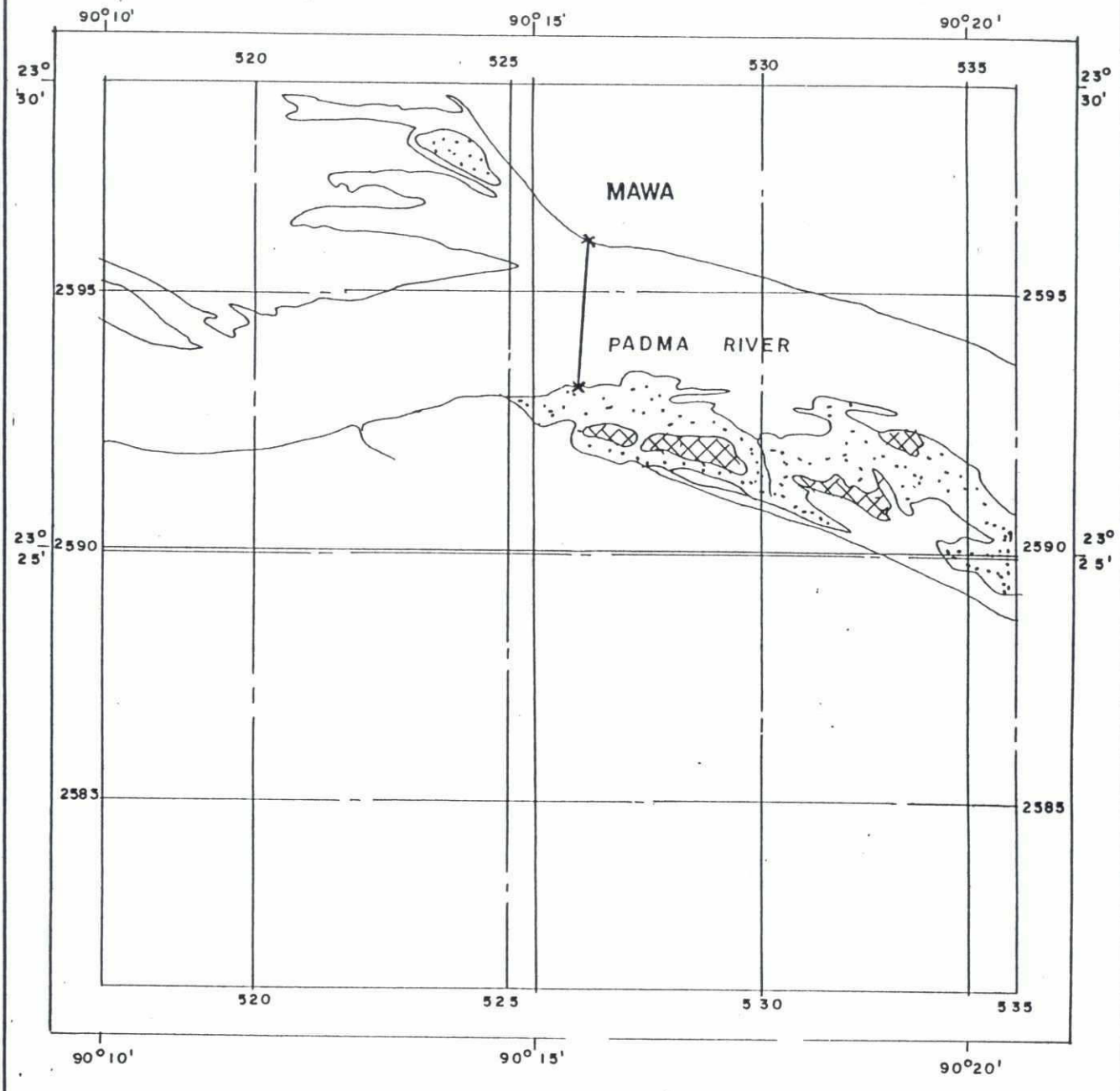
Contents of entire Data Book

Part A: Text volume

Part B: Routine gauging January 1993 - March 1995

Part C: Special surveys June 1994 - March 1995

Contents of Part B.6



FAP 24 RIVER SURVEY PROJECT DELFT-DHI Delft Hydraulics/Danish Hydraulic Institute in association with Osiris/Approtech/Hydroland		Survey Bulletin No. 18 - Oct., 1993
		Location No.6 : Padma River at Mawa
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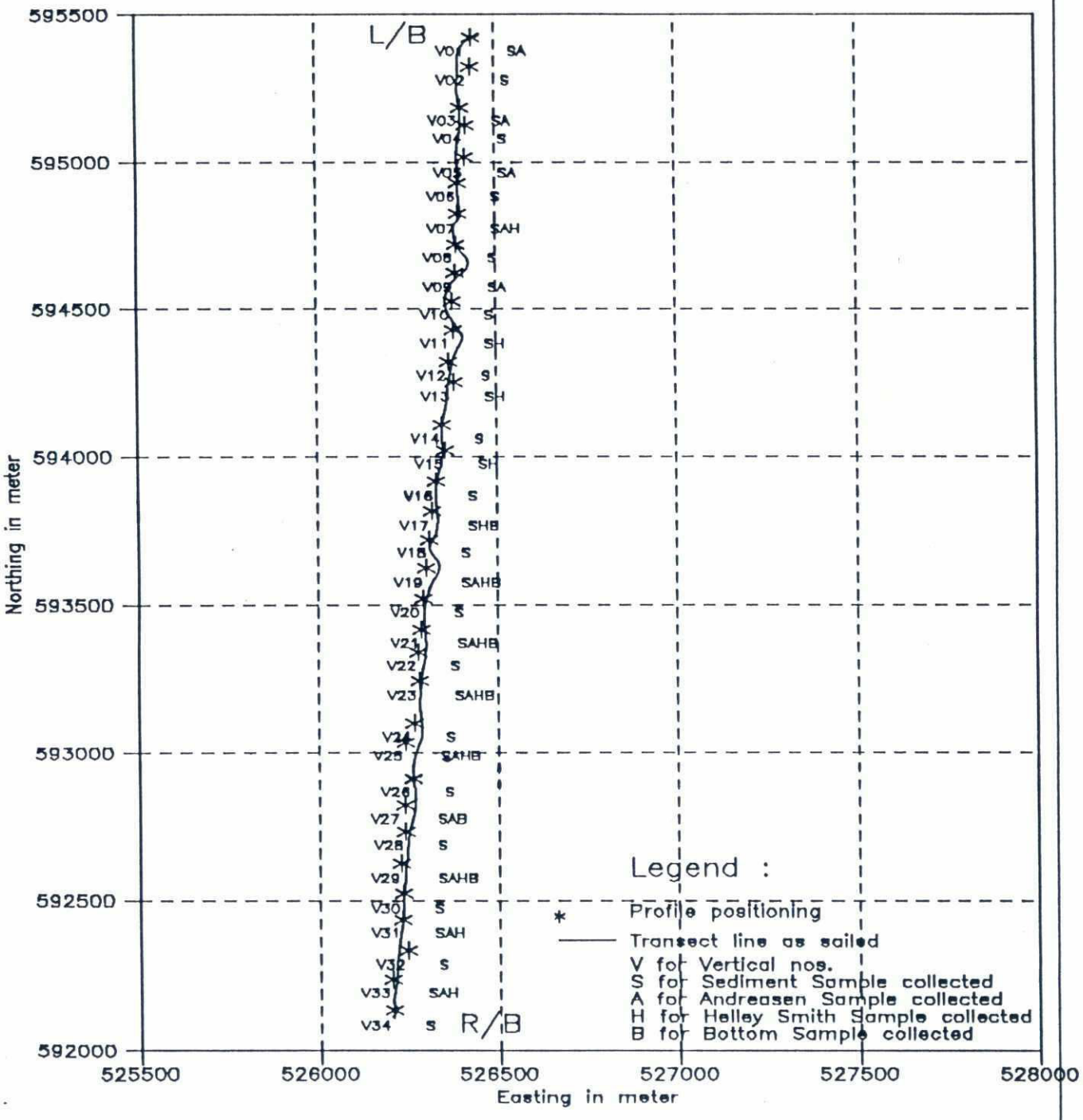


FAP 24 DELFT · DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 18 : October 1993
		Location 06 : Padma River , Mawa
	Date : Init :	Location of Measurments

River : Padma
ADCP/EMF : Discharge

Date of Survey : 03-07 October 1993
Location : Padma River at Mawa
Station No. 6

Date	Transect	Bank		Level	Width	Area	Discharge
		From	To	(m+PWD)	(m)	(sq.m)	(cumec)
03-10-93	M3A31T01	Left	Right	5.52	3486	36670	62254
03-10-93	M3A31T02	Right	Left	5.54	3494	36504	62821
04-10-93	M3A41T01	Left	Right	5.47	3494	35582	61605
04-10-93	M3A41T02	Right	Left	5.46	3495	36244	62029
04-10-93	M3A41T03	Left	Right	5.44	3482	36194	61480
06-10-93	M3A61T01	Left	Right	5.42	3492	36594	59267
06-10-93	M3A61T02	Right	Left	5.45	3489	36364	62289
06-10-93	M3A61T03	Right	Left	5.39	3471	36287	62733
06-10-93	M3A61T04	Left	Right	5.37	3476	36047	61137
07-10-93	M3A71T01	Left	Right	5.26	3471	35624	58692
07-10-93	M3A71T02	Right	Left	5.27	3471	35286	58141
07-10-93	M3A71T04	Right	Left	5.27	3501	35733	61665

Table 3.1 SUMMARY OF RESULTS (ADCP/EMF-discharge)

River : Padma
S4 Velocity

Date of survey : 03-07 October 1993
Location : Padma River at Mawa
Station No. 6

Vertical 1	
Total depth = 8.20	
Depth [m]	Velocity [m/s]
1.64	0.65
3.30	0.56
4.94	0.63
6.45	0.40
7.56	0.44

Vertical 2	
Total depth = 24.40	
Depth [m]	Velocity [m/s]
4.89	0.69
9.78	0.61
14.61	0.59
19.49	0.61
23.27	0.37

Vertical 3	
Total depth = 24.60	
Depth [m]	Velocity [m/s]
4.93	0.52
9.85	0.49
14.75	0.47
19.63	0.54
23.91	0.33

Vertical 4	
Total depth = 21.20	
Depth [m]	Velocity [m/s]
4.25	0.47
8.47	0.50
12.71	0.46
16.93	0.48
20.99	0.35

Vertical 5	
Total depth = 18.40	
Depth [m]	Velocity [m/s]
3.67	0.54
7.36	0.31
11.03	0.31
14.65	0.13
17.04	0.35

Vertical 6	
Total depth = 9.30	
Depth [m]	Velocity [m/s]
1.85	1.00
3.73	0.67
5.57	0.65
7.42	0.46
8.80	0.32

Vertical 7	
Total depth = 6.50	
Depth [m]	Velocity [m/s]
1.30	1.91
2.60	1.63
3.77	1.47
5.15	1.54
6.21	1.15

Vertical 8	
Total depth = 5.50	
Depth [m]	Velocity [m/s]
1.08	1.27
3.33	1.80
4.61	1.37
4.84	1.14

Vertical 9	
Total depth = 5.20	
Depth [m]	Velocity [m/s]
1.04	1.58
3.13	1.81
4.37	1.37
4.52	1.10

Vertical 10	
Total depth = 4.90	
Depth [m]	Velocity [m/s]
1.95	1.50
2.99	2.05
4.28	1.43
4.60	1.17

Vertical 11	
Total depth = 5.00	
Depth [m]	Velocity [m/s]
2.09	1.77
3.02	1.74
3.93	1.65
4.58	1.34

Vertical 12	
Total depth = 5.20	
Depth [m]	Velocity [m/s]
2.00	1.74
3.02	1.70
3.97	1.49
4.59	1.36

Vertical 13	
Total depth = 5.00	
Depth [m]	Velocity [m/s]
1.98	1.95
3.00	1.90
4.01	1.59
4.47	1.40

Vertical 14	
Total depth = 6.30	
Depth [m]	Velocity [m/s]
1.29	2.11
2.60	2.02
3.89	1.86
5.24	1.55
6.05	1.18

Vertical 15	
Total depth = 8.30	
Depth [m]	Velocity [m/s]
2.05	1.73
3.29	1.93
4.88	1.75
6.46	1.52
7.49	1.30

Vertical 16	
Total depth = 9.90	
Depth [m]	Velocity [m/s]
0.50	2.10
2.08	2.05
4.05	1.92
5.96	1.79
7.97	1.57
9.45	1.25

Vertical 17	
Total depth = 10.90	
Depth [m]	Velocity [m/s]
0.50	2.23
2.26	2.28
4.36	2.11
6.48	1.97
8.70	1.76
10.56	1.34

Vertical 18	
Total depth = 11.90	
Depth [m]	Velocity [m/s]
0.50	2.25
2.37	2.36
4.73	2.28
7.12	2.09
9.04	1.94
11.40	1.33

Vertical 19	
Total depth = 12.60	
Depth [m]	Velocity [m/s]
0.50	2.25
2.45	2.37
4.88	2.33
7.54	2.10
10.03	1.94
12.28	1.39

Vertical 20	
Total depth = 12.90	
Depth [m]	Velocity [m/s]
0.50	2.37
2.49	2.52
5.26	2.32
7.60	2.31
10.49	1.95
12.84	1.26

Table 3.2 SUMMARY OF RESULTS (S4 Current)

River : Padma
S4 Velocity

Date of survey : 03-07 October 1993
Location : Padma River at Mawa
Station No. 6

Vertical 21	
Total depth = 13.60	
Depth [m]	Velocity [m/s]
0.50	2.41
2.76	2.54
5.45	2.38
8.17	2.24
10.71	2.02
13.49	1.53

Vertical 22	
Total depth = 14.40	
Depth [m]	Velocity [m/s]
0.50	2.59
2.80	2.31
5.80	2.20
8.70	2.06
11.40	1.87
14.00	1.28

Vertical 23	
Total depth = 14.70	
Depth [m]	Velocity [m/s]
0.50	2.77
2.90	2.44
5.80	2.26
8.70	2.19
11.60	1.98
14.40	1.42

Vertical 24	
Total depth = 14.60	
Depth [m]	Velocity [m/s]
0.50	2.88
2.90	2.57
5.80	2.43
8.70	2.33
11.60	3.01
14.40	1.34

Vertical 25	
Total depth = 14.70	
Depth [m]	Velocity [m/s]
0.50	2.92
2.90	2.58
7.50	2.30
8.70	2.23
11.60	1.98
14.40	1.40

Vertical 26	
Total depth = 14.60	
Depth [m]	Velocity [m/s]
0.50	2.85
2.89	2.49
5.88	2.40
8.88	2.19
11.61	1.96
14.31	1.37

Vertical 27	
Total depth = 14.60	
Depth [m]	Velocity [m/s]
0.50	2.88
2.90	2.78
5.84	2.54
8.71	2.38
11.88	2.20
14.20	1.41

Vertical 28	
Total depth = 12.00	
Depth [m]	Velocity [m/s]
0.54	2.87
2.46	2.64
4.92	2.52
7.27	2.32
9.64	2.12
11.75	1.40

Vertical 29	
Total depth = 9.60	
Depth [m]	Velocity [m/s]
0.57	2.85
2.07	2.65
3.81	2.54
5.81	2.44
7.76	2.23
9.11	1.76

Vertical 30	
Total depth = 8.00	
Depth [m]	Velocity [m/s]
0.50	-
1.60	2.48
2.99	2.73
4.76	2.20
6.42	2.20
7.75	1.88

Vertical 31	
Total depth = 7.50	
Depth [m]	Velocity [m/s]
1.58	2.51
3.03	2.44
4.55	2.17
5.97	1.97
7.24	1.63

Vertical 32	
Total depth = 6.70	
Depth [m]	Velocity [m/s]
1.46	2.07
2.68	2.42
4.09	2.35
5.38	2.09
6.16	1.75

Vertical 33	
Total depth = 6.00	
Depth [m]	Velocity [m/s]
1.20	2.31
2.40	2.35
3.60	2.14
4.81	1.89
5.55	1.49

Vertical 34	
Total depth = 4.80	
Depth [m]	Velocity [m/s]
1.01	1.98
2.88	1.59
3.83	1.44
4.44	1.10

Qw = 64471(m³/s)

Table 3.3 SUMMARY OF RESULTS (S4 Current)

River : Padma
Concentration

Date of survey : 03-07 October 1993
Location : Padma River at Mawa
Station No. 6

Vertical 1	
Total depth = 8.20	
Depth [m]	Conc. [mg/l]
0.50	17.28
1.64	131.08
3.30	204.71
4.94	362.50
6.45	643.27
7.56	652.41

Vertical 2	
Total depth = 24.40	
Depth [m]	Conc. [mg/l]
0.50	185.71
4.89	262.41
9.78	411.76
14.61	411.67
19.49	701.96

Vertical 3	
Total depth = 24.60	
Depth [m]	Conc. [mg/l]
0.50	183.78
4.93	240.48
9.85	335.03
14.75	360.00
19.63	553.29
23.91	1647.95

Vertical 4	
Total depth = 21.20	
Depth [m]	Conc. [mg/l]
0.50	225.43
4.25	255.56
8.47	237.98
12.71	325.97
16.93	450.59
20.99	1106.01

Vertical 5	
Total depth = 18.40	
Depth [m]	Conc. [mg/l]
0.50	202.43
3.67	323.50
7.36	397.48
11.03	483.97
14.65	719.53
17.04	822.49

Vertical 6	
Total depth = 9.30	
Depth [m]	Conc. [mg/l]
0.50	664.67
1.85	597.30
3.73	622.39
5.57	843.21
7.42	1186.67
8.80	1335.76

Vertical 7	
Total depth = 6.50	
Depth [m]	Conc. [mg/l]
0.50	551.22
1.30	619.05
2.60	1027.16
3.77	1441.77
5.15	2071.86
6.21	5066.67

Vertical 8	
Total depth = 5.50	
Depth [m]	Conc. [mg/l]
0.50	653.41
1.08	685.88
3.33	1570.76
4.61	2802.84
4.84	5809.72

Vertical 9	
Total depth = 5.20	
Depth [m]	Conc. [mg/l]
0.50	694.12
1.04	777.01
3.13	1585.28
4.37	3437.33
4.52	2204.51

Vertical 10	
Total depth = 4.90	
Depth [m]	Conc. [mg/l]
0.50	767.41
1.95	1103.50
2.99	1463.75
4.28	2576.55
4.60	3823.53

Vertical 11	
Total depth = 5.00	
Depth [m]	Conc. [mg/l]
0.50	584.17
2.09	1136.76
3.02	1401.36
3.93	2245.05
4.58	5740.46

Vertical 12	
Total depth = 5.20	
Depth [m]	Conc. [mg/l]
0.50	906.21
2.00	1104.00
3.02	1527.85
3.97	2210.29
4.59	4389.47

Vertical 13	
Total depth = 5.00	
Depth [m]	Conc. [mg/l]
0.50	868.46
1.98	1131.03
3.00	1487.08
4.01	2161.90
4.47	3896.15

Vertical 14	
Total depth = 6.30	
Depth [m]	Conc. [mg/l]
0.50	840.72
1.29	998.50
2.60	1268.67
3.89	1557.06
5.24	2109.68
6.05	4753.25

Vertical 15	
Total depth = 8.30	
Depth [m]	Conc. [mg/l]
0.50	763.27
2.05	951.11
3.29	1189.47
4.88	1653.24
6.46	2261.11
7.49	2868.03

Vertical 16	
Total depth = 9.90	
Depth [m]	Conc. [mg/l]
0.50	471.86
2.08	580.28
4.05	677.86
5.96	752.67
7.97	837.09
9.45	898.81

Vertical 17	
Total depth = 10.90	
Depth [m]	Conc. [mg/l]
0.50	768.24
2.26	903.23
4.36	1055.21
6.48	1085.25
10.56	1171.43

Vertical 18	
Total depth = 11.90	
Depth [m]	Conc. [mg/l]
0.50	1427.43
2.37	1510.24
4.73	1678.65
7.12	1748.94
9.04	2550.62
11.40	3588.57

Vertical 19	
Total depth = 12.60	
Depth [m]	Conc. [mg/l]
0.50	433.75
2.45	623.13
4.88	654.01
7.54	724.84
10.03	743.26
12.28	1007.69

Vertical 20	
Total depth = 12.90	
Depth [m]	Conc. [mg/l]
0.50	858.11
2.49	832.30
5.26	873.76
7.60	1049.38
10.49	1012.35
12.84	1431.17

Table 3.4 SUMMARY of RESULTS (Suspended Sediment Concentration)

River : Padma
Concentration

Date of survey : 03-07 October 1993
Location : Padma River at Mawa
Station No. 6

Vertical 21	
Total depth = 13.60	
Depth [m]	Conc. [mg/l]
0.50	951.85
2.76	964.23
5.45	996.34
8.17	1500.00
10.71	1601.37
13.49	1790.08

Vertical 22	
Total depth = 14.40	
Depth [m]	Conc. [mg/l]
0.50	917.50
2.80	1033.80
5.80	1097.08
8.70	1119.55
11.40	1395.48
14.00	2038.32

Vertical 23	
Total depth = 14.70	
Depth [m]	Conc. [mg/l]
0.50	861.90
2.90	913.73
5.80	1170.76
8.70	1289.61
11.60	1244.03
14.40	3482.50

Vertical 24	
Total depth = 14.60	
Depth [m]	Conc. [mg/l]
0.50	890.91
2.90	1235.71
5.80	1274.24
8.70	1731.79
11.60	2131.13
14.40	4703.76

Vertical 25	
Total depth = 14.70	
Depth [m]	Conc. [mg/l]
0.50	1250.00
2.90	1314.10
7.50	1548.65
8.70	1640.00
11.60	2056.00
14.40	3530.86

Vertical 26	
Total depth = 14.60	
Depth [m]	Conc. [mg/l]
0.50	1103.23
2.89	1126.11
5.88	1128.49
8.88	1410.06
11.61	1924.14
14.31	2456.93

Vertical 27	
Total depth = 14.60	
Depth [m]	Conc. [mg/l]
0.50	666.27
2.90	646.75
5.84	635.76
8.71	639.69
11.88	811.19
14.20	944.97

Vertical 28	
Total depth = 12.00	
Depth [m]	Conc. [mg/l]
0.54	1080.00
2.46	1060.53
4.92	1068.42
7.27	1373.24
9.64	1860.15
11.75	2176.87

Vertical 29	
Total depth = 9.60	
Depth [m]	Conc. [mg/l]
0.57	883.24
2.07	962.32
3.81	1104.83
5.81	1108.98
7.76	1317.48
9.11	1583.23

Vertical 30	
Total depth = 8.00	
Depth [m]	Conc. [mg/l]
0.50	972.79
1.60	1087.43
2.99	1109.92
4.76	1252.44
6.42	1333.33
7.75	2365.16

Vertical 31	
Total depth = 7.50	
Depth [m]	Conc. [mg/l]
0.50	1117.65
1.58	1266.21
3.03	1301.28
4.55	1555.04
5.97	1657.14
7.24	4598.79

Vertical 32	
Total depth = 6.70	
Depth [m]	Conc. [mg/l]
0.50	1276.54
1.46	1292.54
2.68	1528.30
4.09	1909.72
5.38	2301.27
6.16	7986.67

Vertical 33	
Total depth = 6.00	
Depth [m]	Conc. [mg/l]
0.50	1701.30
1.20	1636.74
2.40	1855.62
3.60	2200.00
4.81	2960.56
5.55	6958.11

Vertical 34	
Total depth = 4.80	
Depth [m]	Conc. [mg/l]
0.50	1809.16
1.01	1982.14
2.88	2481.25
3.83	3069.80
4.44	7527.27

Ss = 84510 (kg/s)

Table 3.5 SUMMARY of RESULTS (Suspended Sediment Concentration)

River : Padma
Bed load

Date of survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Helley-Smith samples		
Vertical no.	Bed load sb in Kg/ms	
	1	2
7	0.192050	0.105153
9	0.420614	0.299342
11	0.150165	0.057127
13	0.000274	0.000306
15	0.006259	0.002138
17	0.000875	0.010088
19	0.129824	0.103893
21	0.005318	0.099424
23	0.008525	0.101425
25	0.042708	0.041941
29	0.000109	0.000497
31	0.022862	0.000628
33	0.003015	0.001755

Table 3.6 SUMMARY of RESULTS (sediment transport, bed load)

River : Padma
Grain size of bed material

Date of survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Sample No	Date	Time	D16 (mm)	D35 (mm)	D50 (mm)	D90 (mm)	Standard Deviation
DHA-12	08/10/93	--	0.006	0.011	0.016	0.069	2.771
DHA-11	08/10/93	--	0.029	0.042	0.051	0.101	1.732
DHA-10	08/10/93	--	0.052	0.080	0.108	0.215	1.941
DHA-9	08/10/93	--	0.052	0.061	0.071	0.115	1.436
DHA-9	08/10/93	--	0.055	0.068	0.080	0.123	1.446
DHA-7	08/10/93	--	0.126	0.147	0.166	0.231	1.321
DHA-6	08/10/93	--	0.069	0.086	0.102	0.201	1.607
DHA-5	08/10/93	--	0.076	0.098	0.121	0.217	1.614
DHA-1	03/10/93	15:15	0.071	0.088	0.103	0.203	1.589
DHA-1	04/10/93	14:00	0.076	0.101	0.127	0.220	1.631
DHA-2	04/10/93	16:00	0.098	0.139	0.159	0.231	1.497
DHA-1	06/10/93	15:14	0.076	0.103	0.129	0.221	1.639
DHA-1	07/10/93	11:50	0.087	0.130	0.152	0.230	1.584
DHA-1	05/10/93	15:25	0.087	0.129	0.151	0.229	1.580
DHA-01	07/10/93	16:36	0.104	0.141	0.161	0.231	1.454
DHA-4	08/10/93	--	0.106	0.142	0.162	0.232	1.443
DHA-3	08/10/93	--	0.084	0.124	0.146	0.225	1.592

Table 3.7 SUMMARY of RESULTS (grain size bed material)

River : Padma
Grain size of Suspended Sediment

Date of survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Sample No	Date	Time	D16 (mm)	D35 (mm)	D50 (mm)	D90 (mm)	Standard Deviation
A9	05/10/93	08:35	0.007	0.012	0.016	0.038	2.143
A473	04/10/93	09:45	0.010	0.022	0.030	0.066	2.400
A457	04/10/93	15:30	0.019	0.032	0.038	0.080	1.658
A734	05/10/93	09:30	0.025	0.041	0.065	0.121	2.146
A10	03/10/93	12:50	0.026	0.058	0.075	0.123	2.202
A738	05/10/93	13:30	0.026	0.064	0.077	0.125	2.234
A728	05/10/93	15:43	0.022	0.043	0.066	0.119	2.326
A736	03/10/93	15:15	0.010	0.026	0.033	0.061	2.529
A732	04/10/93	14:13	0.003	0.010	0.016	0.041	3.698
A733	04/10/93	16:11	0.006	0.018	0.039	0.119	4.622
A724	06/10/93	15:20	0.016	0.049	0.081	0.198	3.568
A856	07/10/93	12:05	0.016	0.038	0.072	0.140	3.069
A725	05/10/93	15:27	0.003	0.007	0.012	0.031	3.125
A723	07/10/93	16:41	0.013	0.064	0.122	0.227	5.541
A730	06/10/93	12:25	0.022	0.063	0.104	0.218	3.316
A458	06/10/93	10:09	0.014	0.051	0.074	0.155	3.670

Table 3.8 SUMMARY OF RESULTS (grain size suspended sediment)

River : Padma
Grain size of Bed load

Date of survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Sample No	Date	Time	D35 (mm)	D50 (mm)	D65 (mm)	Standard Deviation
A87	05/10/93	08:55	0.070	0.086	0.107	--
A115	05/10/93	09:05	0.075	0.089	0.106	--
A89	03/10/93	12:35	0.076	0.089	0.105	--
A97	03/10/93	12:40	0.075	0.089	0.105	--
A77	05/10/93	11:42	0.078	0.091	0.107	1.508
A94	05/10/93	11:50	0.077	0.089	0.104	1.420
A352	05/10/93	13:30	0.086	0.104	0.125	1.697
A356	05/10/93	13:37	0.084	0.100	0.119	1.635
A348	05/10/93	15:40	0.093	0.116	0.157	1.859
A355	05/10/93	15:49	0.091	0.112	0.147	1.796
A53	03/10/93	15:10	0.090	0.110	0.142	1.781
A47	03/10/93	15:22	0.086	0.104	0.125	1.697
A741	04/10/93	13:49	0.103	0.132	0.167	1.728
A742	04/10/93	14:02	0.113	0.144	0.178	1.732
A719	04/10/93	16:11	0.143	0.168	0.198	1.566
A714	04/10/93	16:00	0.142	0.168	0.199	1.607
A700	06/10/93	15:15	0.124	0.149	0.179	1.656
A49	06/10/93	15:00	0.126	0.150	0.178	1.644
A464	07/10/93	12:00	0.108	0.138	0.172	1.739
A86	07/10/93	11:49	0.116	0.146	0.178	1.727
A743	07/10/93	16:35	0.279	0.321	0.369	1.513
A122	07/10/93	16:30	0.151	0.172	0.195	1.329
A342	06/10/93	12:13	0.301	0.339	0.381	1.304
A462	06/10/93	12:20	0.152	0.174	0.198	1.344
A351	06/10/93	10:05	0.092	0.111	0.138	1.640
A347	06/10/93	09:55	0.098	0.121	0.151	1.637

Table 3.9 SUMMARY of RESULTS (grain size bed load)

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING				
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Transect	07:48:31	08:26:13	M3A31T01*				T	T	T							
Transect	08:32:21	09:00:30	M3A31T02				T	T	T							
Profile	08:11:48	08:45:46	M3A32P01	1	526438	595420		P		P		6	1	-	-	1
Profile	11:42:24	12:06:13	M3A32P02	8	526392	594720		P		P		5	-	-	-	-
Profile	12:09:17	14:39:41	M3A31P02	16	526331	593914						6	-	-	-	-
Profile	12:18:32	13:02:47	M3A32P03	9	526388	594624		P		P		5	1	2	-	1
Profile	14:35:31	15:22:40	M3A32P04	2	526466	593320	P	P	P	P		5	-	-	-	-
Profile	14:40:19	15:30:38	M3A31P04	17	526318	593814		P		P		5	1	2	-	1
Profile	16:24:41	17:34:45	M3A31P05	18	526311	593717		P		P		6	-	-	-	-

* transect in PSD 24 data base

Date of Survey : 03 October 1993
Location : Padma River at Mawa

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING				
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Transect	08:22:50	09:02:36	M3A41T01				T	T	T							
Transect	17:17:02	17:44:12	M3A41T02				T	T	T							
Transect	17:45:36	18:17:21	M3A41T03				T	T	T							
Profile	09:26:29	10:00:20	M3A42P02	3	526405	595184		P		P		6	1	-	-	1
Profile	13:20:23	14:28:26	M3A41P01	19	526303	593623	P	P	P	P		6	1	2	-	1
Profile	14:17:42	14:49:27	M3A42P03	4	526420	595123		P		P		6	-	-	-	-
Profile	15:10:23	15:49:28	M3A42P04	5	526418	595016		P		P		6	1	-	-	1
Profile	15:24:12	16:22:40	M3A41P02	21	526288	593415	P	P	P	P		6	1	2	-	1
Profile	16:34:59	17:05:04	M3A42P05	6	526397	594929		P		P		6	-	-	-	-

Date of Survey : 04 October 1993
Location : Padma River at Mawa
Station No. : 6

Table 2.1 SURVEY PROGRAMME AS MADE

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING				
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Transect	07:44:44	08:18:03	M3A51T01				T	T	T							
Transect	08:23:38	08:53:48	M3A51T02				T	T	T							
Profile	09:21:41	09:44:40	M3A52P02	7	526398	594826		P		P		6	1	2	-	1
Profile	09:33:17	10:30:39	M3A51P01	20	526293	593520	P	P	P	P		6	-	-	-	
Profile	10:36:49	11:16:35	M3A52P03	10	526381	594525		P		P		5	-	-	-	
Profile	11:30:58	12:03:26	M3A52P04	11	526383	594429		P		P		5	-	2	-	1
Profile	12:27:07	13:01:03	M3A52P05	12	526368	594322		P		P		5	-	-	-	
Profile	13:16:17	13:46:23	M3A52P06	13	526382	594252		P		P		5	1	2	-	1
Profile	14:23:13	14:57:15	M3A52P07	14	526348	594106		P		P		6	-	-	-	
Profile	14:47:55	15:43:53	M3A51P02	27	526238	592819	P	P	P			6	1	-	1	1
Profile	15:21:34	15:57:12	M3A52P08	15	526357	594022		P		P		6	1	2	-	1

Date of Survey : 05 October 1993
Location : Padma River at Mawa

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING				
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Transect	11:02:15	11:38:20	M3A61T01				T	T	T							
Transect	11:42:10	12:08:33	M3A61T02				T	T	T							
Transect	16:20:02	16:48:29	M3A61T03				T	T	T							
Transect	17:09:03	17:44:30	M3A61T04				T	T	T							
Profile	08:44:25	09:14:50	M3A62P01	34	526204	592134		P		P		5	-	-	-	-
Profile	09:48:44	10:17:45	M3A62P02	33	526202	592238		P		P		6	1	2	-	1
Profile	11:12:42	11:40:51	M3A62P03	32	526244	592335		P		P		6	-	-	-	-
Profile	12:02:20	12:34:35	M3A62P04	31	526231	592438		P		P		6	1	2	-	1
Profile	13:10:45	14:08:52	M3A61P01	22	526279	593339	P	P	P			6	-	-	-	-
Profile	13:59:11	14:32:24	M3A62P05	30	526232	592523		P		P		6	-	-	-	-
Profile	14:37:36	15:31:38	M3A61P02	23	526282	593241	P	P	P			6	1	2	-	1

Date of Survey : 06 October 1993
Location : Padma River at Mawa
Station No. : 6

Table 2.2 SURVEY PROGRAMME AS MADE

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING				
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Transect	08:30:55	09:06:09	M3A71T01				T	T	T							
Transect	09:08:45	09:38:07	M3A71T02				T	T	T							
Transect	17:32:49	18:01:31	M3A71T04				T	T	T							
Profile	10:11:39	10:52:11	M3A71P01	24	526266	593099	P	P	P			6	-	-	-	-
Profile	11:25:52	12:13:55	M3A71P02	25	526241	593034	P	P	P			6	1	2	-	1
Profile	13:46:48	14:22:55	M3A71P03	26	526261	592911	P	P	P			6	-	-	-	-
Profile	14:54:49	15:36:51	M3A71P04	28	526240	592730	P	P	P			6	-	-	-	-
Profile	16:15:34	16:55:36	M3A71P05	29	526227	592623	P	P	P			6	1	2	-	1

Date of Survey : 07 October 1993
Location : Padma River at Mawa
Station No. : 6

Table 2.3 SURVEY PROGRAMME AS MADE

Type Of Samples	Sample Nos.	Total Sample Nos.	Vertical No.
Point Integrated Samples	A155,A180,A486,A498,A500,A512	6	1
	A540,A535,A531,A536,A539	5	2
	A651,A653,A652,A656,A670,A671	6	3
	A672,A673,A674,A675,A676,A677	6	4
	A595,A598,A631,A624,A632,A600	6	5
	A610,A597,A627,A626,A621,A629	6	6
	A686,A654,A655,A669,A625,A533	6	7
	A523,A503,A496,A501,A491	5	8
	A478,A487,A488,A532,A557	5	9
	A530,A665,A679,A680,A681	5	10
	A678,A683,A682,A685,A684	5	11
	A628,A599,A596,A633,A620	5	12
	A623,A622,A630,A650,A641	5	13
	A640,A645,A642,A638,A658,A649	6	14
	A657,A618,A659,A668,A662,A661	6	15
	AB01,AB02,AB03,AB04,AB05,AB06	6	16
	A602,A603,A605,A606,A611	5	17
	A612,A613,A615,A616,A617,A636	6	18
	A634,A635,A637,A646,A647,A648	6	19
	A687,A138,A137,A139,A140,A134	6	20
	A639,A643,A644,A666,A667,A607	6	21
	A90,A78,A715,A744,A739,A747	6	22
	A718,A711,A703,A702,A716,A701	6	23
	A374,A157,A158,A238,A146,A170	6	24
	A151,A168,A131,A174,A154,A167	6	25
	A153,A169,A847,A172,A148,A150	6	26
	A144,A608,A609,A604,A142,A145	6	27
	A768,A132,A769,A770,A762,A771	6	28
	A764,A772,A761,A765,A767,A766	6	29
	A575,A581,A694,A746,A699,A697	6	30
	A587,A589,A578,A594,A586,A619	6	31
	A664,A583,A582,A592,A574,A585	6	32
	A663,A579,A572,A593,A573,A580	6	33
	A576,A660,A591,A577,A590	5	34

Date of Survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Table 2.4 List of Sediment Samples

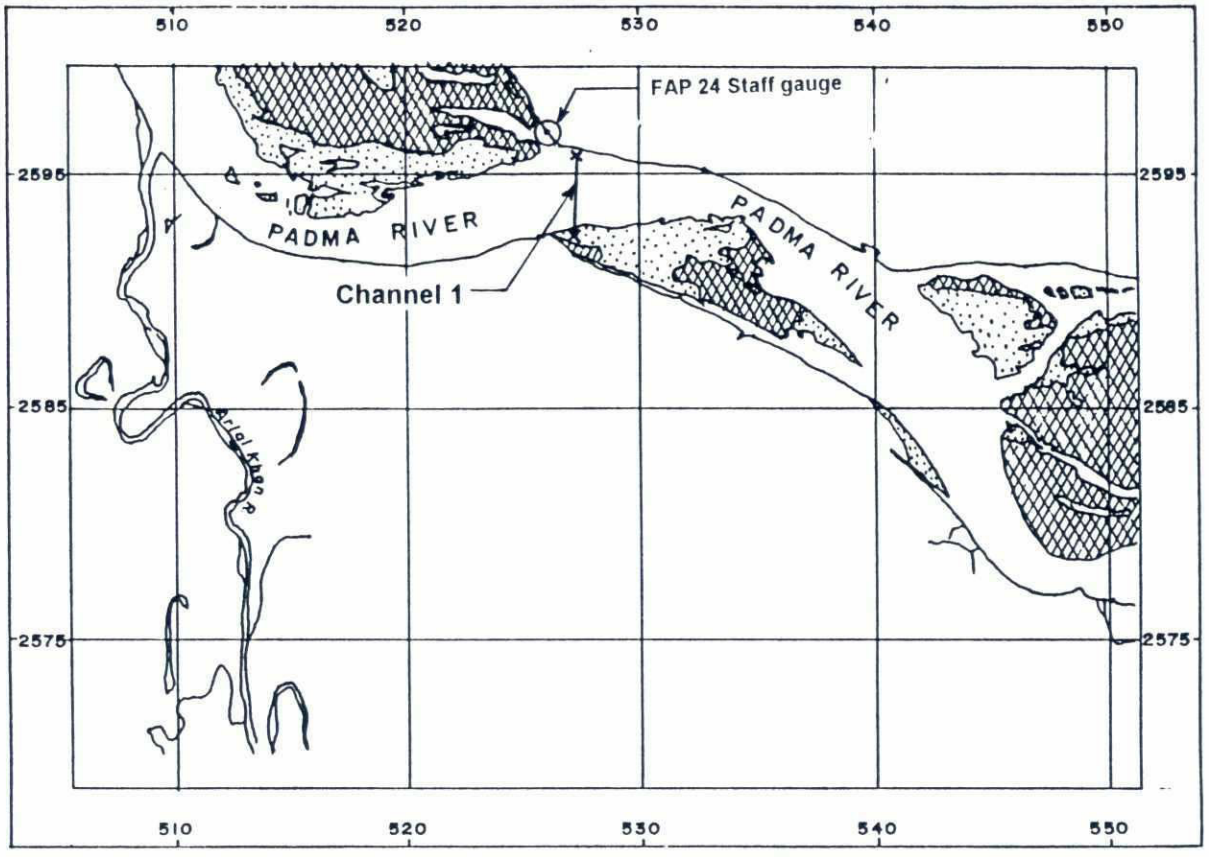
Type Of Samples	Sample Nos.	Total Sample Nos.	Vertical No.
Andreasen Tube Samples	A9	1	1
	A473	1	3
	A457	1	5
	A734	1	7
	A10	1	9
	A738	1	13
	A728	1	15
	A736	1	17
	A732	1	19
	A733	1	21
	A724	1	23
	A856	1	25
	A725	1	27
	A723	1	29
	A730	1	31
	A458	1	33
Helley-Smith Samples	A115,A87	2	7
	A89,A97	2	9
	A94,A77	2	11
	A352,A356	2	13
	A348,355	2	15
	A53,A47	2	17
	A741,A719	2	19
	A714,A719	2	21
	A49,A700	2	23
	A86,A464	2	25
	A122,A743	2	29
	A342,A462	2	31
	A347,A351	2	33
Vanveen Samples	DHA-12	1	1
	DHA-11	1	3
	DHA-10	1	5
	DHA-9	1	7
	DHA-8	1	9
	DHA-7	1	11
	DHA-6	1	13
	DHA-5	1	15
	DHA-1	1	17
	DHA-1	1	19
	DHA-2	1	21
	DHA-1	1	23
	DHA-1	1	25
	DHA-1	1	27
	DHA-1	1	29
	DHA-4	1	31
	DHA-3	1	33

Date of Survey : 03-08 October 1993
Location : Padma River at Mawa
Station No. 6

Table 2.5 List of Sediment Samples

Types of Data	Channel	Format	Filename
ADCP/S4/EMF	1	QUATTRO	M3A31T01 .ase
Echosounder	1	QUATTRO	M3A31T01 .ech
Sediment transport data	1	QUATTRO	M3A31T01 .sed
Bed load sediment analysis	1	QUATTRO	M3A31T01 .bdl
Suspended sed. conc. analysis	1	QUATTRO	M3A31T01 .ssc
Transect plot data	1	QUATTRO	M3A31T01 .trs
Iso-velocity plot data	1	MIKE 21	M3A31T01 .ct2 M3A31T01 .dt2

Table 5.1 PSD 24 Database file description



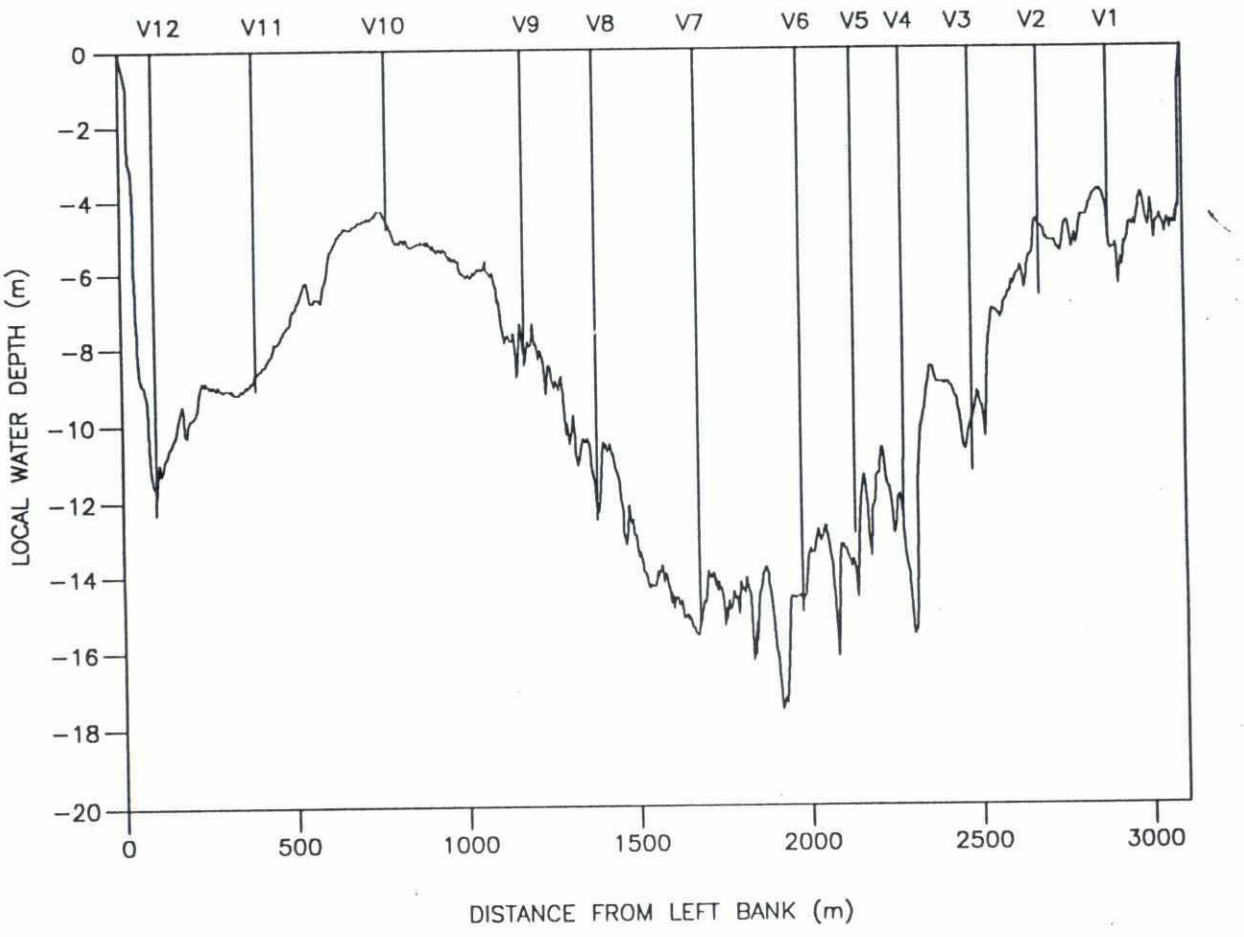
LEGEND:

- Cross section
- High land
- Unstable/law char
- FAP 24 Staff gauge

5000m 2500m 0

Map is based on satellite images of March 1994

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 84 : 25 July, 1994	
		Location 6 : Padma River, Mawa	
	Date : 18 Oct 1994	Location map	page 1.1
	Init : mzh		



Water level : 4.77 m + PWD measured at the station indicated on page 1.1

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 84 : 25 July, 1994	
		Location 6 : Padma River, Mawa	
File : M47P1T01	Date : 18 Oct 1994 Init : mzh	Cross-sections and measured verticals Channel 1	page 1.2

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	4	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	-	-	-	-
Vertical current profile	No.of verticals in channel	12	-	-	-
	ADCP	12	-	-	-
	S4 current meter	1	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	6	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	12	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	24	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-

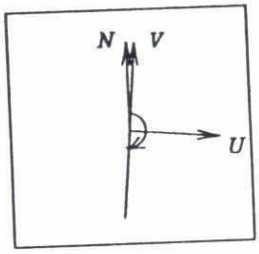
Table 2.1: Survey programme as made

	Width (m)	Area (m^2)	Stage h (m+PWD)	Discharge Q (m^3/s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	3099	28002	4.77	34550	152	23821

Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m+PWD)	Gauge
Mawa	Channel 1	25 Jul 94	4.77	FAP 24

Table 2.3: Water-levels

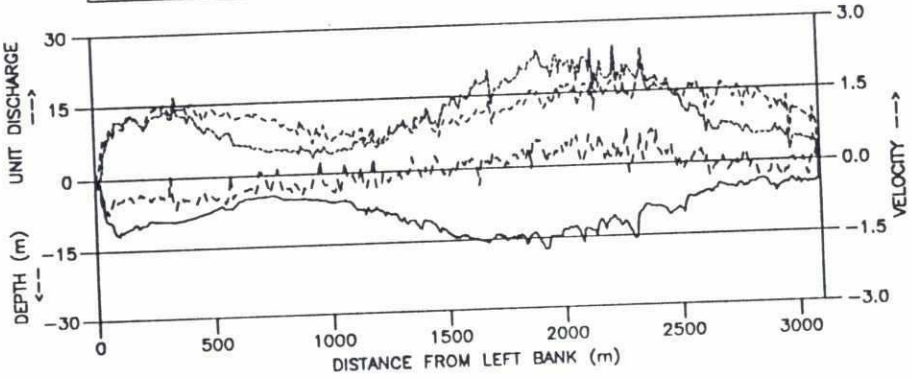


TRANSECT AZIMUTH = 185°

U – VELOCITY NORMAL TO TRANSECT (m/s)

V – VELOCITY PARALLEL TO TRANSECT (m/s)

N – MAGNETIC NORTH



LEGEND :

—— WATER DEPTH (m below STAGE)

—— UNIT DISCHARGE (m^2/s.m)

---- U (m/s)

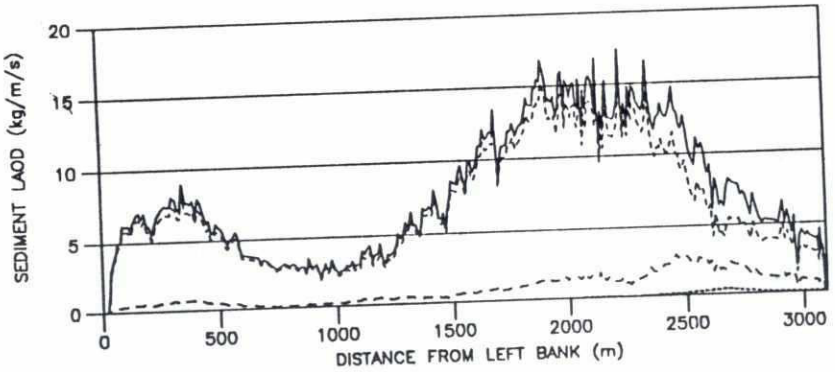
- - - V (m/s)

STAGE = 4.77 (m+PWD)

A = 28002 (m^2)

Q = 34550 (m^2/s)

FLOW



LEGEND :

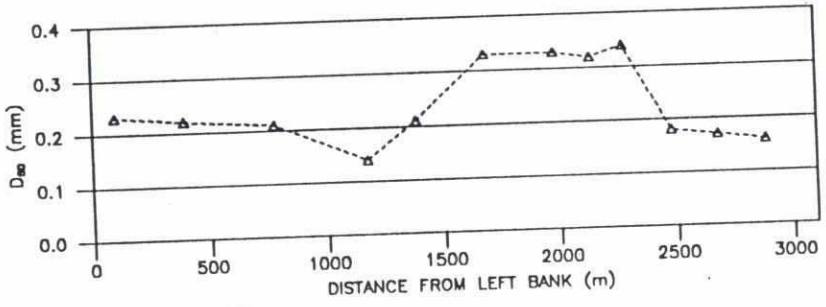
—— S_{TOTAL} 23973 (kg/s)

----- $S_{WASH\ LOAD}$ 21025 (kg/s)

- - - $S_{SUSP.\ BED}$ 2796 (kg/s)

------ $S_{BED\ LOAD}$ 152 (kg/s)

SEDIMENT TRANSPORT



LEGEND :

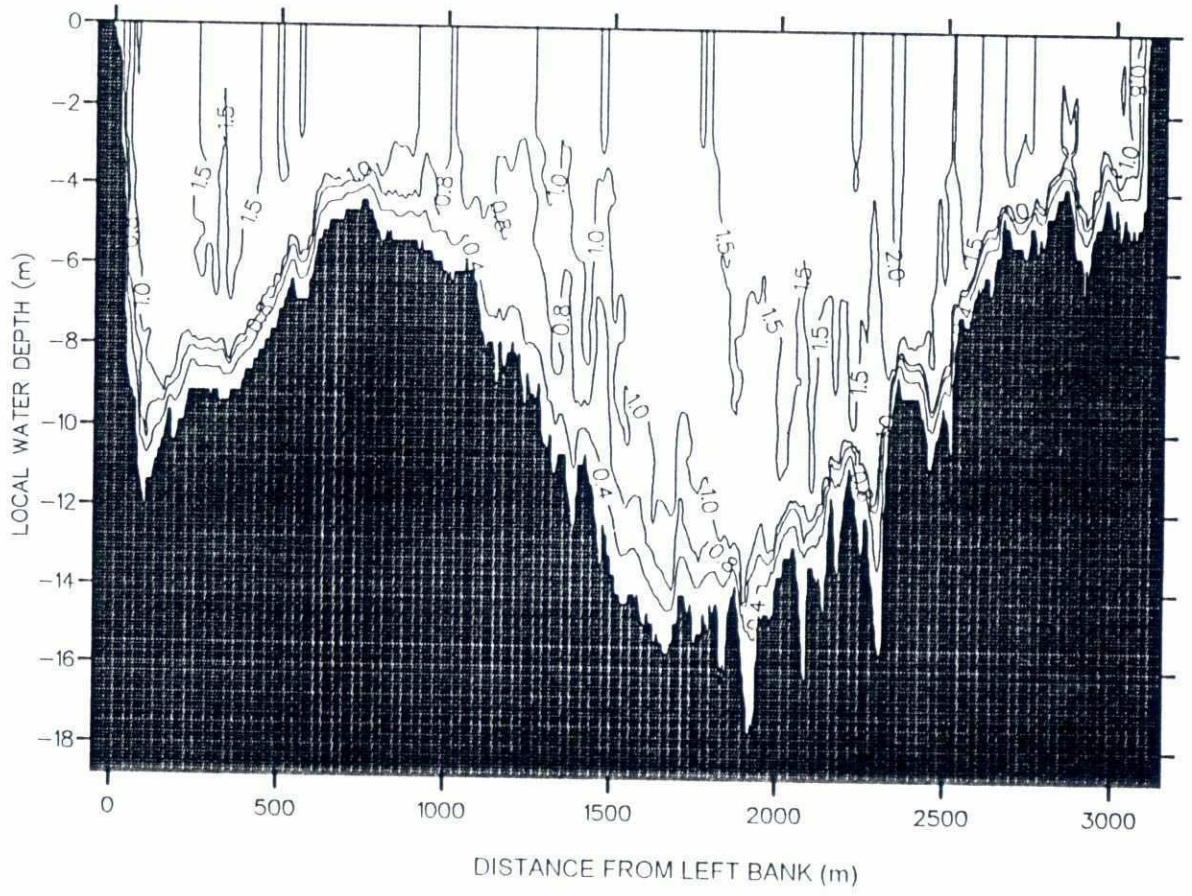
◊◊◊◊ $D_{50\ SUSP.}$ (mm)

△△△△ $D_{50\ BED\ LOAD}$ (mm)

□□□□ $D_{50\ BED\ MAT.}$ (mm)

GRAIN SIZE

FAP 24 DELFT - DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 84 : 25 July, 1994 Location 6 : Padma River, Mawa	
File : M47P1T01	Date : 18 Oct 1994 Init : mzh	Horizontal distribution of flow and sediments Channel 1	page 3.1



Iso-velocity contours (m/s)
Water level : 4.77 m + PWD measured at the station indicated on page 1.1

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 84 : 25 July, 1994	
		Location 6 : Padma River, Mawa	
File : M47P1T01	Date : 18 Oct 1994	Cross-sectional distribution of flow velocity	pago 4.1
	Init : mzh	Channel 1	

Andreasen settling tube

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent < 0.06 mm > 0.06 mm	D10 (mm)	D50 (mm)	D90 (mm)
Sample not collected							

Table 5.1: Grain size of near bed suspended sediment (0.3 m above river bed)

US BM-54 bed samples

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent < 0.06 mm > 0.06 mm	D10 (mm)	D50 (mm)	D90 (mm)
Sample not collected							

Table 5.2 : Grain size of bed material

Helley - Smith

Channel	Vertical	Time (YYMMDDHHMM)	Depth	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9407251610-1622	4.90	0.718	99.282	0.144	0.166	0.191
	2	9407251544-1555	6.70	0.603	99.397	0.154	0.173	0.195
	3	9407251513-1524	11.30	0.987	99.013	0.152	0.173	0.197
	4	9407251424-1439	12.70	0.219	99.781	0.294	0.334	0.379
	5	9407251353-1405	12.90	0.256	99.744	0.288	0.328	0.374
	6	9407251136-1305	15.00	0.428	99.572	0.283	0.323	0.370
	7	9407251109-1117	15.40	0.389	99.611	0.287	0.327	0.373
	8	9407251037-1047	12.50	6.857	93.143	0.161	0.204	0.262
	9	9407250957-1009	8.50	3.412	96.588	0.140	0.180	0.231
	10	9407250928-0937	4.80	3.208	96.792	0.176	0.221	0.281
	11	9407250857-0906	9.10	6.214	93.786	0.161	0.207	0.269
	12	9407250825-0833	12.30	8.628	91.372	0.162	0.204	0.260
	1	9407251610-1622	4.90	0.919	99.081	0.141	0.162	0.186
	2	9407251544-1555	6.70	0.866	99.134	0.153	0.172	0.194
	3	9407251513-1524	11.30	1.158	98.842	0.157	0.182	0.211
	4	9407251424-1439	12.70	0.201	99.799	0.297	0.336	0.381
	5	9407251353-1405	12.90	1.206	98.794	0.275	0.316	0.364
	6	9407251136-1305	15.00	0.156	99.844	0.299	0.338	0.382
	7	9407251109-1117	15.40	0.532	99.468	0.283	0.324	0.370
	8	9407251037-1047	12.50	5.568	94.432	0.162	0.215	0.281
	9	9407250957-1009	8.50	3.263	96.737	0.086	0.100	0.116
	10	9407250928-0937	4.80	4.691	95.309	0.159	0.201	0.253
	11	9407250857-0906	9.10	5.480	94.520	0.183	0.239	0.303
	12	9407250825-0833	12.30	4.687	95.313	0.204	0.266	0.327

Table 5.3 : Grain sizes of bed load

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
ADCP & EMF transect	1	9407250712-0740 9407250743-0807 9407251645-1708 9407251710-1741	M47P1T01 * M47P1T02 M47P1T03 M47P1T04

Table 6.1: ADCP & EMF transects * : transect in Engineering data base and presented in Sections 3 and 4

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9407251610-1622	527327	592397	4.90	M47P1P12 *
		2	9407251544-1555	527344	592600	6.70	M47P1P11 *
		3	9407251513-1524	527365	592797	11.30	M47P1P10 *
		4	9407251424-1439	527379	593000	12.70	M47P1P09 *
		5	9407251353-1405	527395	593139	12.90	M47P1P08 *
		6	9407251136-1305	527405	593295	15.00	M47P1P07 **
		7	9407251109-1117	527436	593592	15.40	M47P1P06 *
		8	9407251037-1047	527458	593889	12.50	M47P1P05 *
		9	9407250957-1009	527471	594098	8.50	M47P1P04 *
		10	9407250928-0937	527512	594494	4.80	M47P1P03 *
		11	9407250857-0906	527539	594878	9.10	M47P1P02 *
		12	9407250825-0833	527564	595171	12.30	M47P1P01 *

Table 6.2: Vertical profiles * S4 & MEX not availbale ** MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	6	6	9407251136-1305	527405	593295	15.00

Table 6.3: Suspended sediment - point sampled

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments	1	1	1	9407251610-1622	527327	592397	4.90
		2	1	9407251544-1555	527344	592600	6.70
		3	1	9407251513-1524	527365	592797	11.30
		4	1	9407251424-1439	527379	593000	12.70
		5	1	9407251353-1405	527395	593139	12.90
		6	1	9407251136-1305	527405	593295	15.00
		7	1	9407251109-1117	527436	593592	15.40
		8	1	9407251037-1047	527458	593889	12.50
		9	1	9407250957-1009	527471	594098	8.50
		10	1	9407250928-0937	527512	594494	4.80
		11	1	9407250857-0906	527539	594878	9.10
		12	1	9407250825-0833	527564	595171	12.30

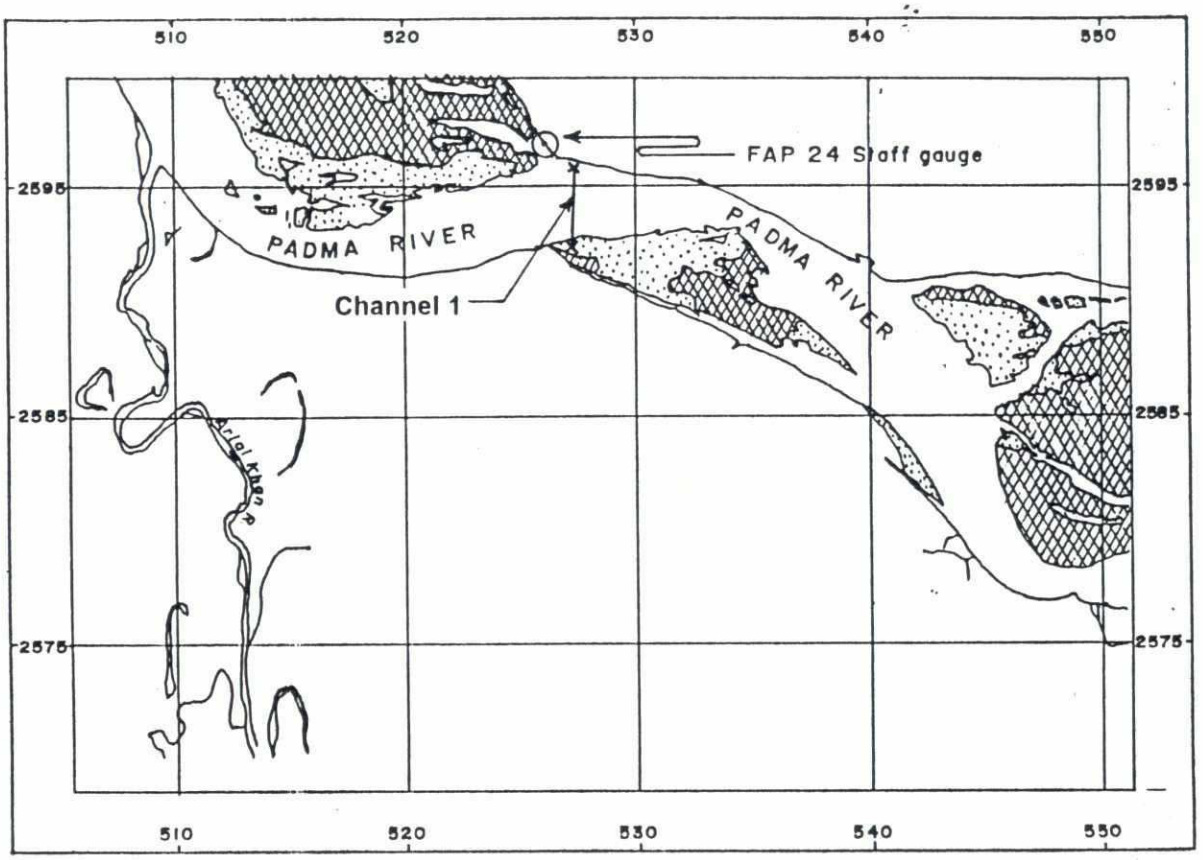
Table 6.4: Suspended sediment - depth integrated

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Helley-Smith Sample	1	1	9407251610-1622	527327	592397	4.90	A1654
		2	9407251544-1555	527344	592600	6.70	A2169
		3	9407251513-1524	527365	592797	11.30	A2187
		4	9407251424-1439	527379	593000	12.70	A1938
		5	9407251353-1405	527395	593139	12.90	A2172
		6	9407251136-1305	527405	593295	15.00	A1959
		7	9407251109-1117	527436	593592	15.40	A2179
		8	9407251037-1047	527458	593889	12.50	A2030
		9	9407250957-1009	527471	594098	8.50	A1945
		10	9407250928-0937	527512	594494	4.80	A2153
		11	9407250857-0906	527539	594878	9.10	A1801
		12	9407250825-0833	527564	595171	12.30	A1956
		1	9407251610-1622	527327	592397	4.90	A1638
		2	9407251544-1555	527344	592600	6.70	A1374
		3	9407251513-1524	527365	592797	11.30	A2182
		4	9407251424-1439	527379	593000	12.70	A2178
		5	9407251353-1405	527395	593139	12.90	A2163
		6	9407251136-1305	527405	593295	15.00	A2109
		7	9407251109-1117	527436	593592	15.40	A1881
		8	9407251037-1047	527458	593889	12.50	A2033
		9	9407250957-1009	527471	594098	8.50	A2175
		10	9407250928-0937	527512	594494	4.80	A1888
		11	9407250857-0906	527539	594878	9.10	A1961
		12	9407250825-0833	527564	595171	12.30	A1927

Table 6.5: Bed load

Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	M47P1T01.ase
Echosounder data	1	QUATTRO	M47P1T01.ech
Sediment transport data	1	QUATTRO	M47P1T01.sed
Susp. sed. conc. analysis	1	QUATTRO	M47P1T01.ssc
Bed load sediment analysis	1	QUATTRO	M47P1T01.bdl
Transect plot data	1	QUATTRO	M47P1T01.trs
Iso-velocity plot data	1	MIKE 21	M47P1T01.dt2 M47P1T01.ct2

Table 7.1 PSD 24 Database file description



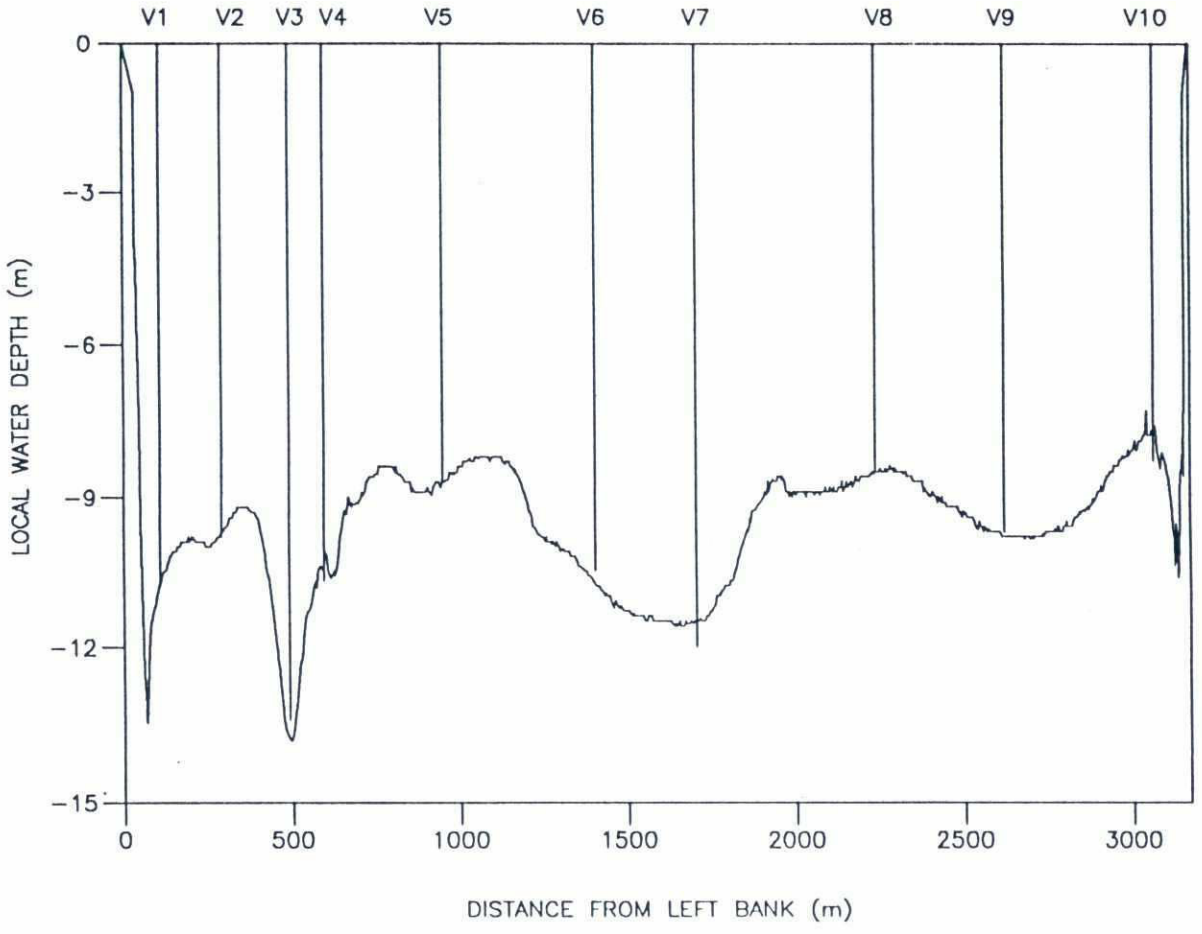
LEGEND:

- Cross section
- High land
- Unstable/law char
- FAP 24 Staff gauge

5000m 2500m 0

Map is based on satellite images of March 1994

FAP 24 DELFT - DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 93 : 25-26 August , 1994	
	Location 6 : Padma River, Mawa	
Date : 05 Dec 1994 Init : sjr	Location map	page 1.1



Water level : 5.87 m + PWD measured at the station indicated on page 1.1

FAP 24 DELFT - DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 93 : 25-26 August , 1994 Location 6 : Padma River, Mawa	
File : M48P1T08	Date : 05 Dec 1994 Init : sjr	Cross-sections and measured verticals Channel 1	page 1.2

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	8	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	-	-	-	-
Vertical current profile	No.of verticals in channel	10	-	-	-
	ADCP	10	-	-	-
	S4 current meter	1	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	2	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	10	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	20	-	-	-
	Delft Bottle	20	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-

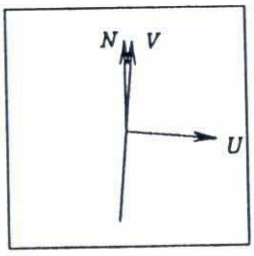
Table 2.1: Survey programme as made

	Width (m)	Area (m^2)	Stage h (m+PWD)	Discharge Q (m^3/s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	3171	29991	5.87	70291	449	95119

Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m+PWD)	Gauge
Mawa	Channel 1	25 Aug 94	5.87	FAP 24
		26 Aug 94	5.71	

Table 2.3: Water-levels

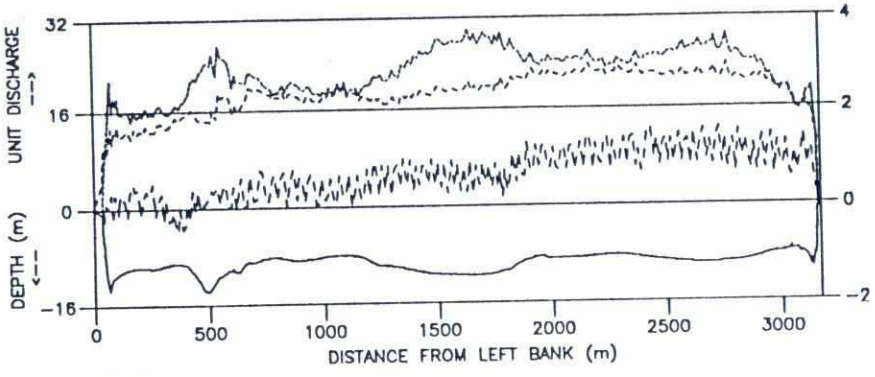


TRANSECT AZIMUTH = 5°

U – VELOCITY NORMAL TO TRANSECT (m/s)

V – VELOCITY PARALLEL TO TRANSECT (m/s)

N – MAGNETIC NORTH



FLOW

LEGEND :

——— WATER DEPTH (m below STAGE)

------ UNIT DISCHARGE (m^2/s.m)

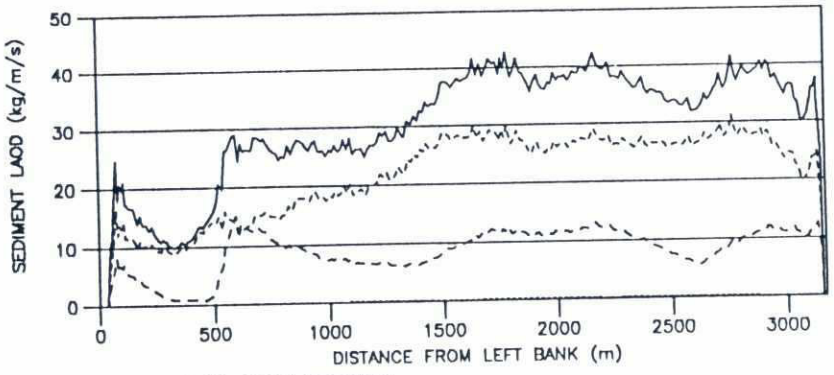
---- U (m/s)

- - - V (m/s)

STAGE = 5.87 (m+PWD)

A = 29991 (m^2)

Q = 70291 (m^3/s)



SEDIMENT TRANSPORT

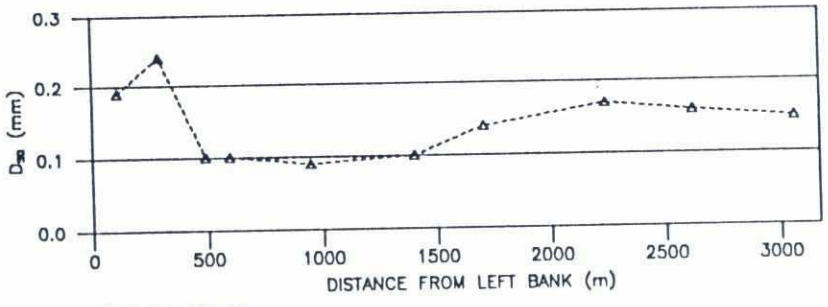
LEGEND :

——— S_{TOTAL} 95568 (kg/s)

----- $S_{WASH\ LOAD}$ 68040 (kg/s)

- - - - $S_{SUSP.\ BED}$ 27079 (kg/s)

------ $S_{BED\ LOAD}$ 449 (kg/s)



GRAIN SIZE

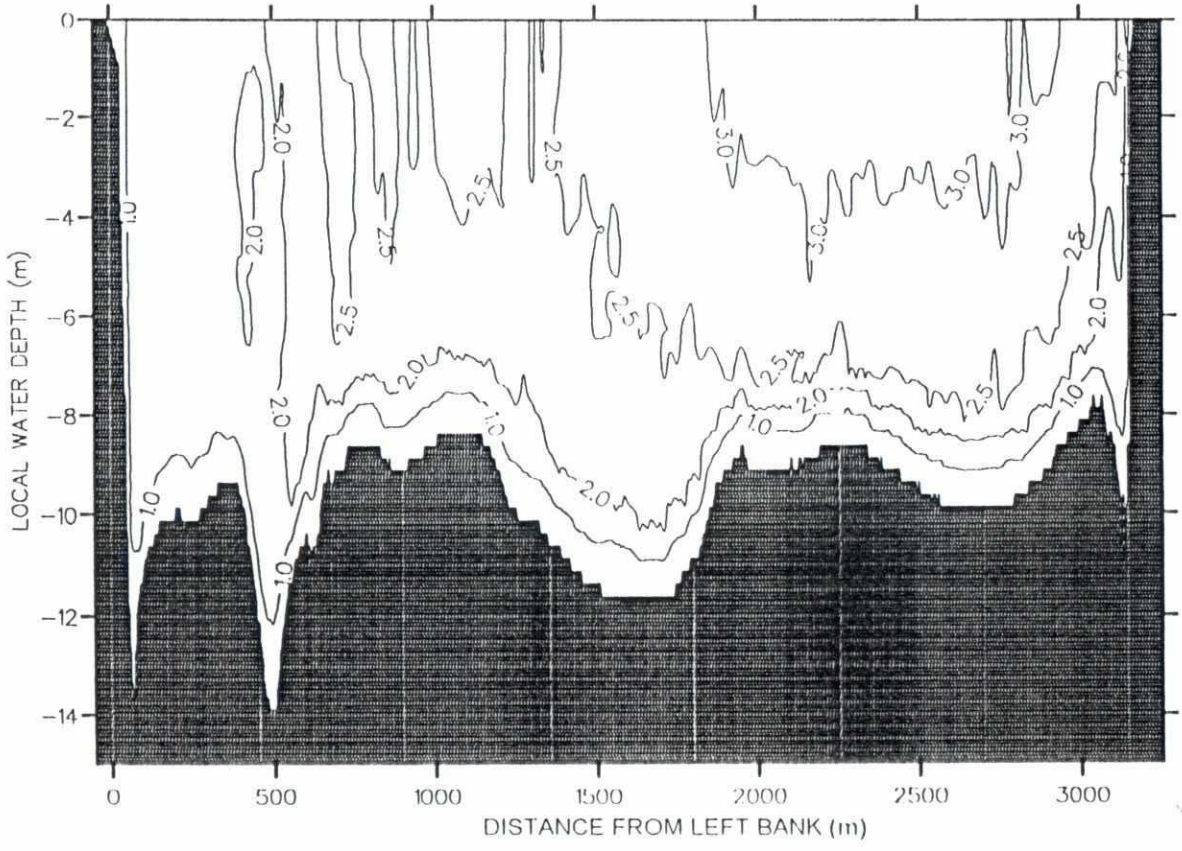
LEGEND :

◇◇◇◇◇ $D_{50\ SUSP.}$ (mm)

△△△△△ $D_{50\ BED\ LOAD}$ (mm)

□□□□□ $D_{50\ BED\ MAT.}$ (mm)

FAP 24 DELFT - DHI / RIVER SURVEY PROJECT, Flood Plan Coordination Organization, Commission of the European Communities		Survey Bulletin 93 : 25-26 August , 1994	
		Location 6 : Padma River, Mawa	
File : M48P1T08	Date : 05 Dec 1994	Horizontal distribution of flow and sediments	page
	Init : sjr	Channel 1	3.1



Iso-velocity contours (m/s)
Water level : 5.87 m + PWD measured at the station indicated on page 1.1

FAP 24 DELFT - DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 93 : 25-26 August , 1994	
		Location 6 : Padma River, Mawa	
File : M48P1T08	Date : 05 Dec 1994 Init : sjr	Cross-sectional distribution of flow velocity Channel 1	page 4.1

Andreasen settling tube							
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
Sample not collected							

Table 5.1: Grain size of near bed suspended sediment (0.3 m above river bed)

US BM-54 bed samples							
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
Sample not collected							

Table 5.2 : Grain size of bed material

Helley - Smith								
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	> 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9408251325-1332	10.80	3.531	96.469	0.165	0.263	0.323
	2	9408251418-1430	9.80	1.466	98.534	0.259	0.305	0.359
	3	9408261502-1513	13.40	12.912	87.088	0.087	0.109	0.142
	4	9408261418-1427	10.70	23.642	76.358	0.079	0.107	0.148
	5	9408251534-1544	8.70	21.372	78.628	0.074	0.089	0.107
	6	9408251616-1627	10.50	8.070	91.930	0.083	0.097	0.113
	7	9408260922-1045	12.00	3.016	96.984	0.114	0.142	0.172
	8	9408261121-1132	8.50	1.622	98.378	0.144	0.164	0.187
	9	9408261203-1221	9.70	1.372	98.628	0.138	0.160	0.185
	10	9408261250-1259	8.30	2.541	97.459	0.125	0.149	0.176
	1	9408251325-1332	10.80	12.120	87.880	0.090	0.114	0.158
	2	9408251418-1430	9.80	7.995	92.005	0.140	0.179	0.227
	3	9408261502-1513	13.40	19.743	80.257	0.076	0.091	0.109
	4	9408261418-1427	10.70	21.173	78.827	0.076	0.092	0.112
	5	9408251534-1544	8.70	17.840	82.160	0.076	0.089	0.105
	6	9408251616-1627	10.50	5.424	94.576	0.086	0.100	0.117
	7	9408260922-1045	12.00	2.554	97.446	0.111	0.139	0.168
	8	9408261121-1132	8.50	1.425	98.575	0.145	0.165	0.189
	9	9408261203-1221	9.70	1.547	98.453	0.140	0.162	0.188
	10	9408261250-1259	8.30	3.189	96.811	0.130	0.152	0.179

Table 5.3 : Grain sizes of bed load

Delft - Bottle

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9408251325-1332	10.80	7.807	92.193	0.084	0.099	0.116
	2	9408251418-1430	9.80	22.156	77.844	0.075	0.092	0.114
	3	9408261502-1513	13.40	38.173	61.827	-	0.074	0.091
	4	9408261418-1427	10.70	11.125	88.875	0.080	0.093	0.108
	5	9408251534-1544	8.70	19.633	80.367	0.075	0.090	0.107
	6	9408251616-1627	10.50	7.854	92.146	0.084	0.099	0.117
	7	9408260922-1045	12.00	2.071	97.929	0.114	0.141	0.169
	8	9408261121-1132	8.50	0.927	99.073	0.142	0.162	0.185
	9	9408261203-1221	9.70	0.887	99.113	0.135	0.157	0.182
	10	9408261250-1259	8.30	3.889	96.111	0.097	0.119	0.150
	1	9408251325-1332	10.80	38.980	61.020	-	0.073	0.089
	2	9408251418-1430	9.80	25.094	74.906	0.070	0.082	0.097
	3	9408261502-1513	13.40	49.096	50.904	-	0.064	0.081
	4	9408261418-1427	10.70	21.295	78.705	0.072	0.084	0.098
	5	9408251534-1544	8.70	33.420	66.580	0.064	0.078	0.095
	6	9408251616-1627	10.50	14.725	85.275	0.077	0.089	0.102
	7	9408260922-1045	12.00	6.654	93.346	0.088	0.105	0.125
	8	9408261121-1132	8.50	2.160	97.840	0.130	0.152	0.177
	9	9408261203-1221	9.70	1.788	98.212	0.135	0.157	0.182
	10	9408261250-1259	8.30	6.754	93.246	0.089	0.108	0.132

Table 5.4 : Grain sizes of bed load

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
ADCP & EMF transect	1	9408250916-0949	M48P1T02
		9408251015-1037	M48P1T03
		9408251658-1732	M48P1T07
		9408251734-1757	M48P1T08 *
		9408260748-0815	M48Q1T01
		9408260822-0846	M48Q1T02
		9408261537-1602	M48Q1T03
		9408261605-1628	M48Q1T04

Table 6.1: ADCP & EMF transects

* : transect in PSD 24 data base and presented in Sections 3 and 4

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9408251325-1332	527565	595178	10.80	M48P1P02 *
		2	9408251418-1430	527546	594997	9.80	M48P1P03 *
		3	9408261502-1513	527541	594797	13.40	M48Q1P06 *
		4	9408261418-1427	527526	594694	10.70	M48Q1P05 *
		5	9408251534-1544	527495	594341	8.70	M48P1P04 *
		6	9408251616-1627	527454	593890	10.50	M48P1P05 *
		7	9408260922-1045	527437	593588	12.00	M48Q1P01 **
		8	9408261121-1132	527386	593059	8.50	M48Q1P02 *
		9	9408261203-1221	527358	592679	9.70	M48Q1P03 *
		10	9408261250-1259	527317	592236	8.30	M48Q1P04 *

Table 6.2: Vertical profiles

* S4 & MEX not available

** MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	7	2	9408260922-1045	527437	593588	12.00

Table 6.3: Suspended sediment - point sampled

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments	1	1	1	9408251325-1332	527565	595178	10.80
		2	1	9408251418-1430	527546	594997	9.80
		3	1	9408261502-1513	527541	594797	13.40
		4	1	9408261418-1427	527526	594694	10.70
		5	1	9408251534-1544	527495	594341	8.70
		6	1	9408251616-1627	527454	593890	10.50
		7	1	9408260922-1045	527437	593588	12.00
		8	1	9408261121-1132	527386	593059	8.50
		9	1	9408261203-1221	527358	592679	9.70
		10	1	9408261250-1259	527317	592236	8.30

Table 6.4: Suspended sediment - depth integrated

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Helley-Smith Sample	1	1	9408251325-1332	527565	595178	10.80	A2163
		2	9408251418-1430	527546	594997	9.80	A2149
		3	9408261502-1513	527541	594797	13.40	A1988
		4	9408261418-1427	527526	594694	10.70	A2145
		5	9408251534-1544	527495	594341	8.70	A865
		6	9408251616-1627	527454	593890	10.50	A112
		7	9408260922-1045	527437	593588	12.00	A1940
		8	9408261121-1132	527386	593059	8.50	A913
		9	9408261203-1221	527358	592679	9.70	A2024
		10	9408261250-1259	527317	592236	8.30	A107
		1	9408251325-1332	527565	595178	10.80	A2172
		2	9408251418-1430	527546	594997	9.80	A2164
		3	9408261502-1513	527541	594797	13.40	A2022
		4	9408261418-1427	527526	594694	10.70	A1593
		5	9408251534-1544	527495	594341	8.70	A2170
		6	9408251616-1627	527454	593890	10.50	A886
		7	9408260922-1045	527437	593588	12.00	A92
		8	9408261121-1132	527386	593059	8.50	A1951
		9	9408261203-1221	527358	592679	9.70	A2014
		10	9408261250-1259	527317	592236	8.30	A1933

Table 6.5: Bed load

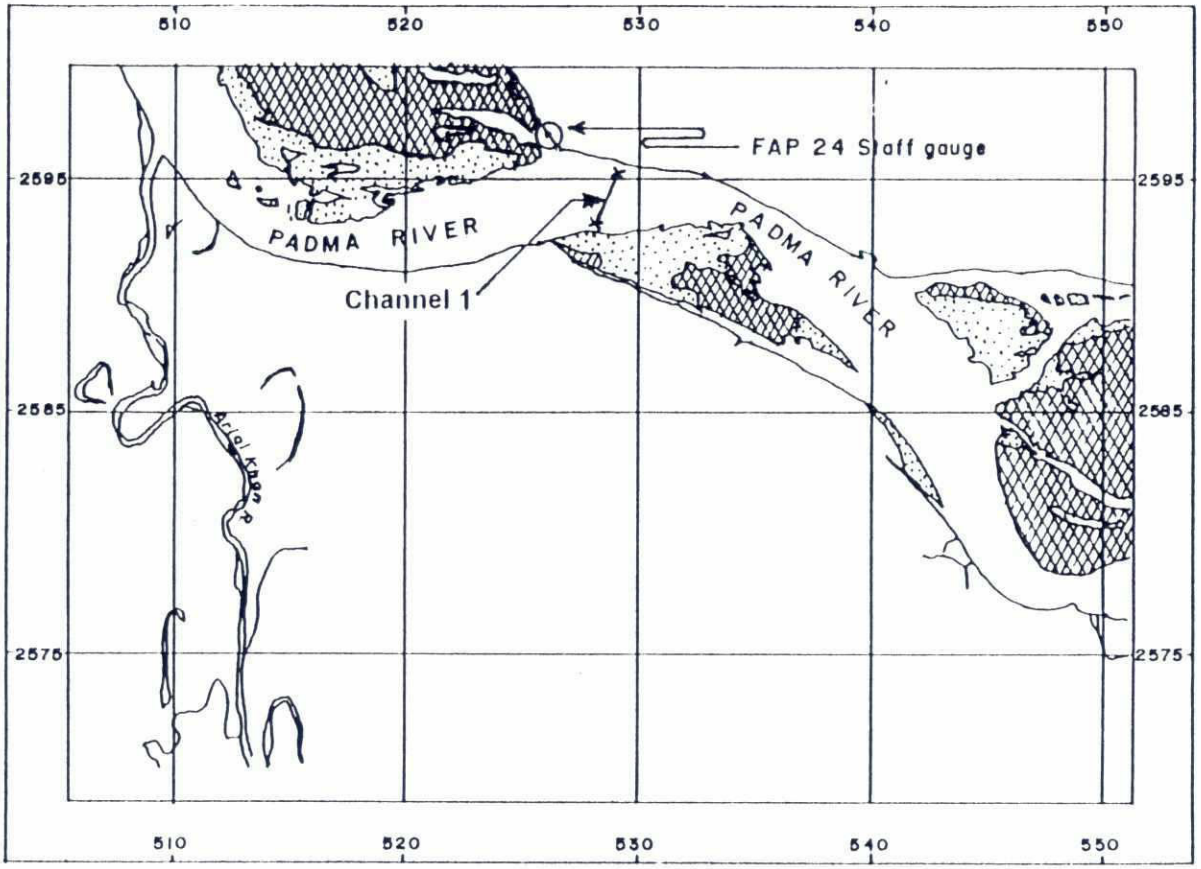
Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Delft - Bottle Sample	1	1	9408251325-1332	527565	595178	10.80	A1027
		2	9408251418-1430	527546	594997	9.80	A1009
		3	9408261502-1513	527541	594797	13.40	A991
		4	9408261418-1427	527526	594694	10.70	A754
		5	9408251534-1544	527495	594341	8.70	A953
		6	9408251616-1627	527454	593890	10.50	A795
		7	9408260922-1045	527437	593588	12.00	A949
		8	9408261121-1132	527386	593059	8.50	A1013
		9	9408261203-1221	527358	592679	9.70	A787
		10	9408261250-1259	527317	592236	8.30	A1051
		1	9408251325-1332	527565	595178	10.80	A785
		2	9408251418-1430	527546	594997	9.80	A950
		3	9408261502-1513	527541	594797	13.40	A1025
		4	9408261418-1427	527526	594694	10.70	A999
		5	9408251534-1544	527495	594341	8.70	A759
		6	9408251616-1627	527454	593890	10.50	A964
		7	9408260922-1045	527437	593588	12.00	A1022
		8	9408261121-1132	527386	593059	8.50	A1060
		9	9408261203-1221	527358	592679	9.70	A977
		10	9408261250-1259	527317	592236	8.30	A937

Table 6.6: Bed load

Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	M48P1T08 .ase
Echosounder data	1	QUATTRO	M48P1T08 .ech
Sediment transport data	1	QUATTRO	M48P1T08 .sed
Bed load sediment analysis	1	QUATTRO	M48P1T08 .bdl
Susp. sed. conc. analysis	1	QUATTRO	M48P1T08 .ssc
Transect plot data	1	QUATTRO	M48P1T08 .trs
Iso-velocity plot data	1	MIKE 21 MIKE 21	M48P1T08 .dt2 M48P1T08 .ct2

Table 7.1 PSD 24 Database file description

82



LEGEND:

- Cross section
- High land
- Unstable/low char
- FAP 24 Staff gauge

10000 5000 0

Map is based on satellite images of March 1994

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
	Date : 07 August 1995	Location map	page 11
	Init : mzh/sjr		

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	50	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	9	-	-	-
Vertical current profile	No of verticals in channel	2	-	-	-
	ADCP	58	-	-	-
	S4 current meter	52	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	156	-	-	-
	Andreasen settling tube	35	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	27	-	-	-
	Delft Bottle	53	-	-	-
Bed material	US BM-54 bed sampler	5	-	-	-
	Van Veen bed sampler	5	-	-	-

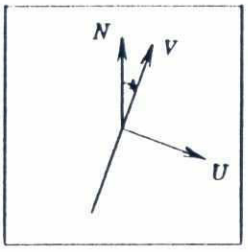
Table 2.1: Survey programme as made

Channel 1 File Names	Width (m)	Area (m^2)	AWLR h (m+PWD)	Discharge Q (m^3/s)
M52H3T02	2459	15222	1.32	6347
M52H3T04	2461	15018	1.23	6483
M52H3T06	2455	14910	1.19	6539
M52H3T08	2448	15181	1.24	3043
M52H3T10	2438	15807	1.52	8
* M52H3T12	2446	16051	1.63	451
M52H3T14	2438	16020	1.66	1628
* M52H3T16	2439	15753	1.57	4710
M52I3T01	2257	14746	1.47	5713
M52I3T03	2445	15375	1.43	5963
* M52I3T05	2473	15230	1.35	6106
M52I3T07	2465	15042	1.30	6145
* M52I3T09	2428	14886	1.24	6222
M52I3T11	2462	14706	1.15	6442
M52I3T13	2441	14767	1.16	5148
* M52I3T15	2456	15314	1.29	2262
M52I3T17	2523	15849	1.51	151
M52I3T19	2508	16195	1.56	1112
M52I3T21	2527	16238	1.71	294
M52I3T23	2485	16007	1.65	3981
M52I3T25	2465	15625	1.54	5686
M52I3T27	2478	15566	1.48	6026
M52I3T30	2437	15256	1.39	6160
M52I3T32	2448	15148	1.35	6233
M52I3T34	2453	15103	1.30	6014

Table 2.2: Key figures

* iso-velocity plots & velocity distribution presented.

Note : Each transect measurment performed twice (reverse direction)

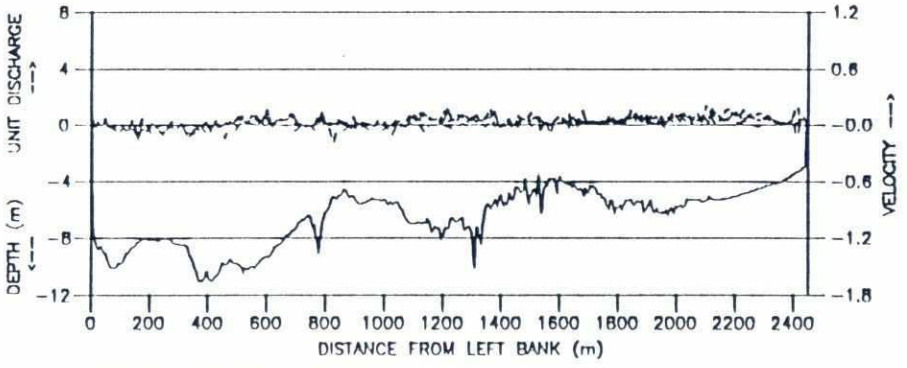


TRANSECT AZIMUTH = 20°

U – VELOCITY NORMAL TO TRANSECT (m/s)

V – VELOCITY PARALLEL TO TRANSECT (m/s)

N – MAGNETIC NORTH

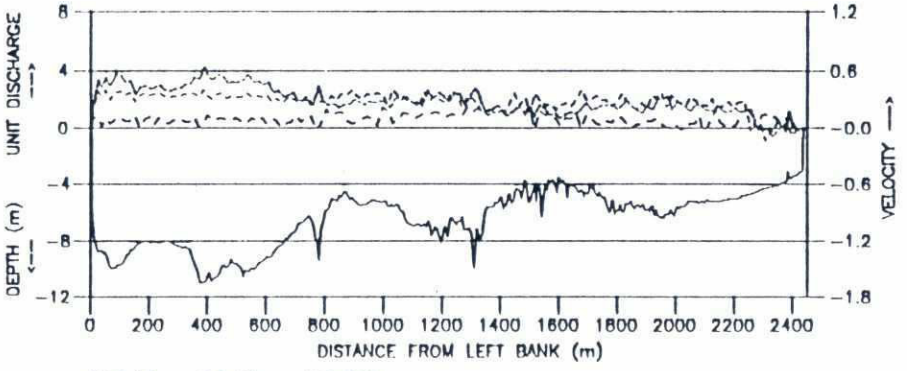


LEGEND :

WATER DEPTH (m below STAGE)
UNIT DISCHARGE (m²/s.m)
U – (m/s)
V – (m/s)

STAGE = 1.63 (m+PWD)
A = 16051 (m²)
Q = – 451 (m³/s)

(17/2 21:20 – 21:38)



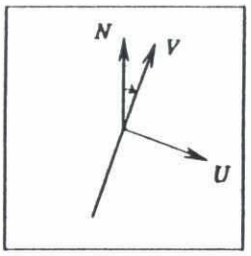
LEGEND :

WATER DEPTH (m below STAGE)
UNIT DISCHARGE (m²/s.m)
U – (m/s)
V – (m/s)

STAGE = 1.57 (m+PWD)
A = 15763 (m²)
Q = 4710 (m³/s)

(17/2 23:21 – 23:39)

FAP 24 DELFT - DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 134 : 17 - 18 February, 1995 Location 6 : Padma River, Mawa	
Files M52H3T12 M52H3T16	Date : 07 August 1995 Init : mzh/sjr	Horizontal distribution of flow Channel 1	page 3.1

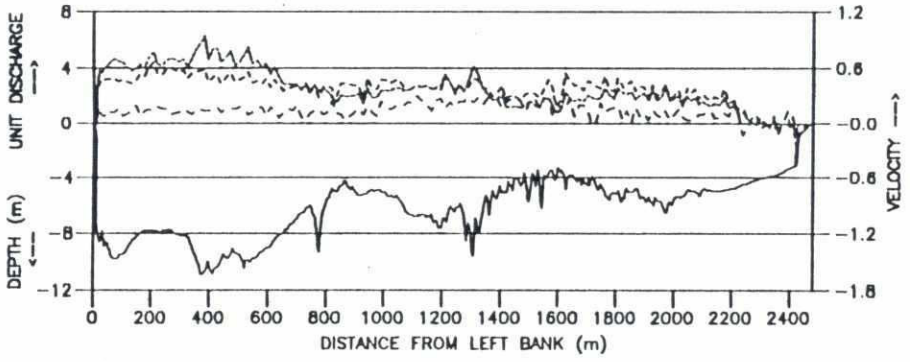


TRANSECT AZIMUTH = 20°

U – VELOCITY NORMAL TO TRANSECT (m/s)

V – VELOCITY PARALLEL TO TRANSECT (m/s)

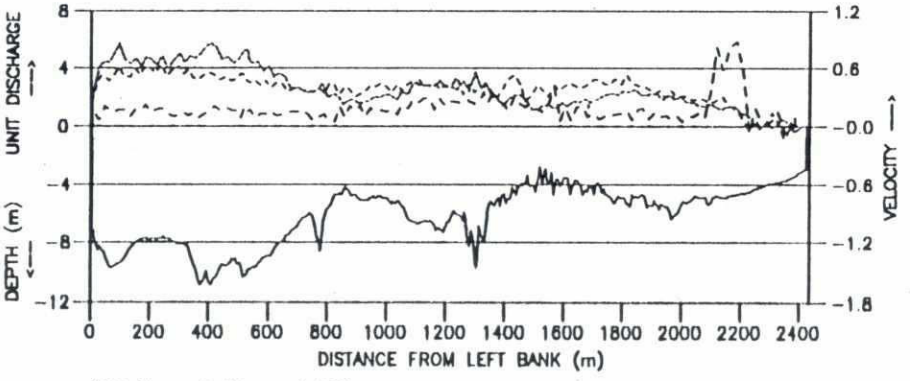
N – MAGNETIC NORTH



LEGEND :

WATER DEPTH (m below STAGE)
UNIT DISCHARGE (m²/s.m)
U – (m/s)
V – (m/s)
STAGE = 1.35 (m+PWD)
A = 15230 (m²)
Q = 6106 (m³/s)

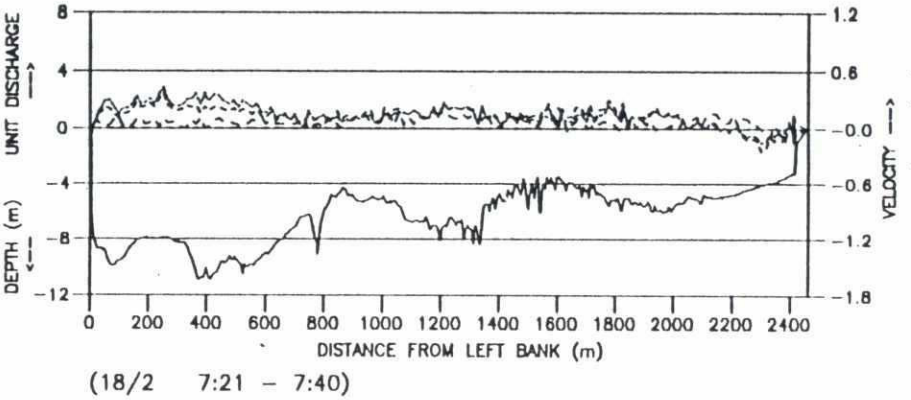
(18/2 2:28 – 2:48)



LEGEND :

WATER DEPTH (m below STAGE)
UNIT DISCHARGE (m²/s.m)
U – (m/s)
V – (m/s)
STAGE = 1.24 (m+PWD)
A = 14886 (m²)
Q = 6222 (m³/s)

(18/2 4:25 – 4:42)

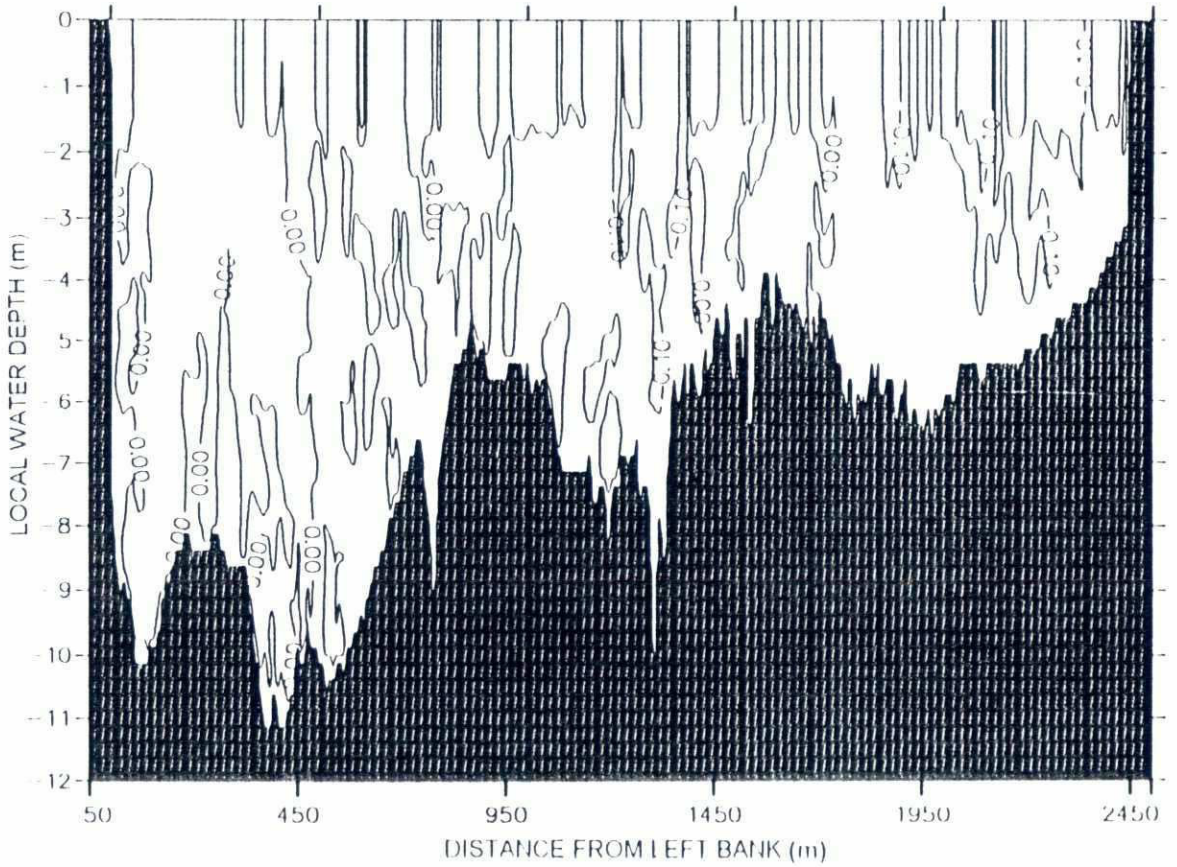


LEGEND :

WATER DEPTH (m below STAGE)
UNIT DISCHARGE (m²/s.m)
U – (m/s)
V – (m/s)
STAGE = 1.29 (m+PWD)
A = 15314 (m²)
Q = 2282 (m³/s)

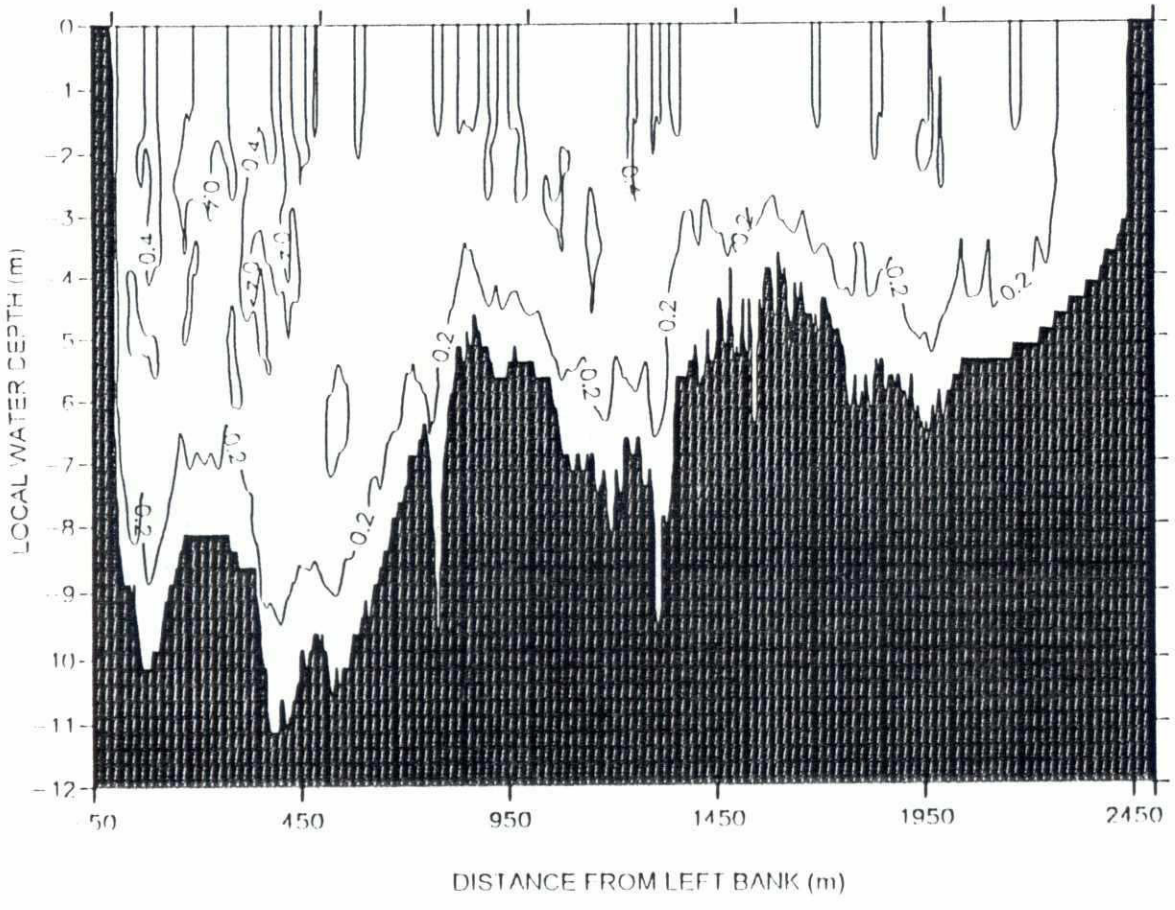
(18/2 7:21 – 7:40)

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
Files : M52I3T05 M52I3T09 M52I3T15	Date : 07 August 1995 Init : mzh/sjr	Horizontal distribution of flow Channel 1	page 32



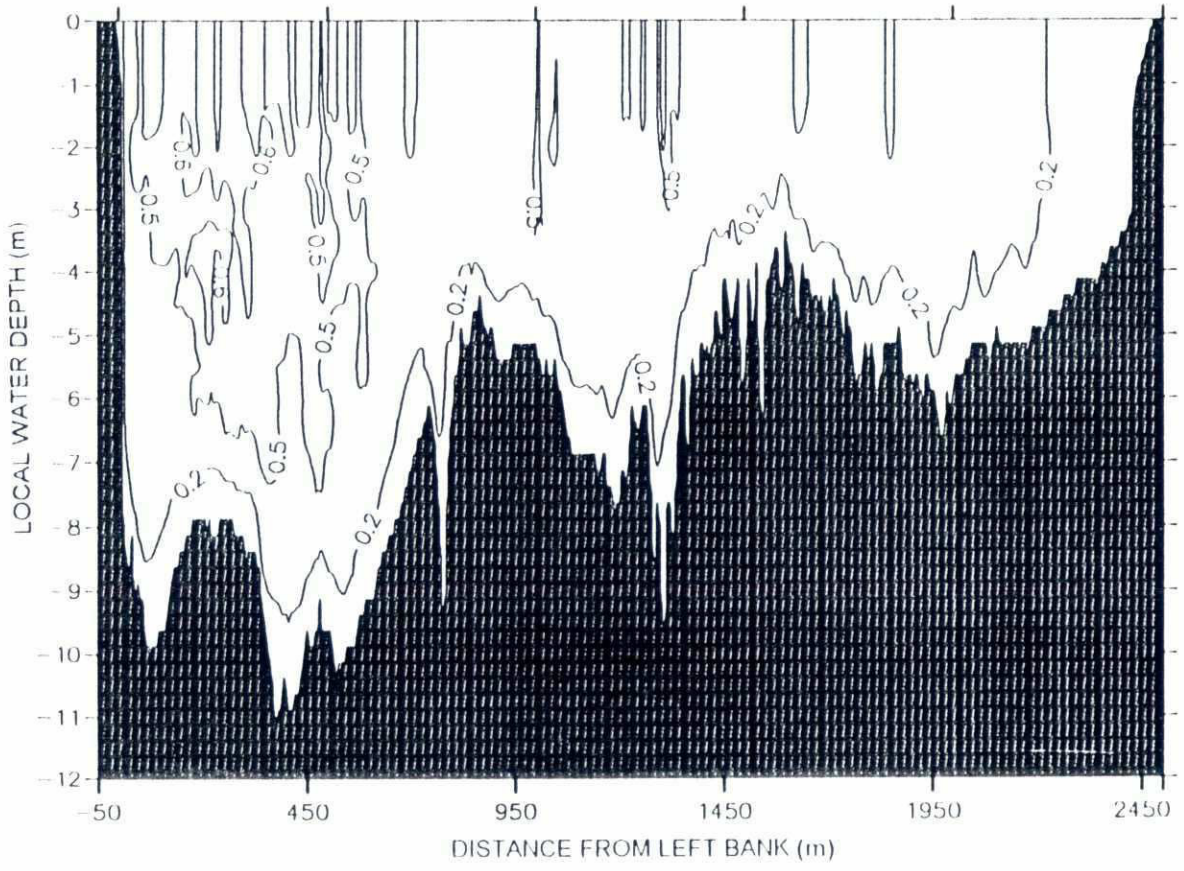
Iso-velocity contours (m/s)
Water-level : 1.63 m + PWD measured at the station indicated on Page 1.1 at 21:20 hours on 17 Feb 95

FAP 24 DELFT DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
File : M52H3112	Date : 07 August 1995	Cross-sectional distribution of flow velocity	page 4.1
	Init : mzh/sjr	Channel 1	



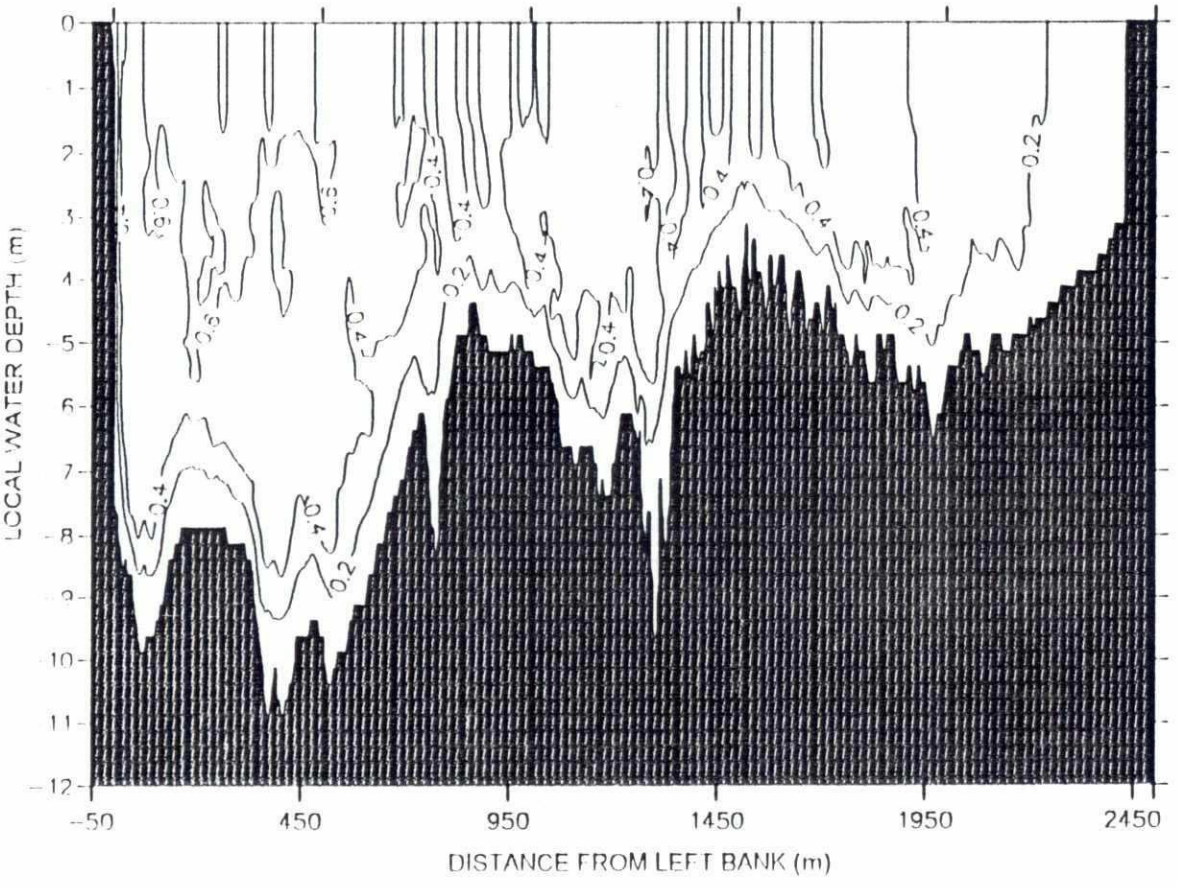
Iso-velocity contours (m/s)
Water-level : 1.57 m + PWD measured at the station indicated on Page 1.1 at 23:21 hours on 17 Feb 95

FAP 24 DELFT DHI RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 134 : 17 - 18 February, 1995 Location 6 : Padma River, Mawa	
File : M52H3T16	Date : 07 August 1995 Init : mzh/sjr	Cross-sectional distribution of flow velocity Channel 1	page 4.2



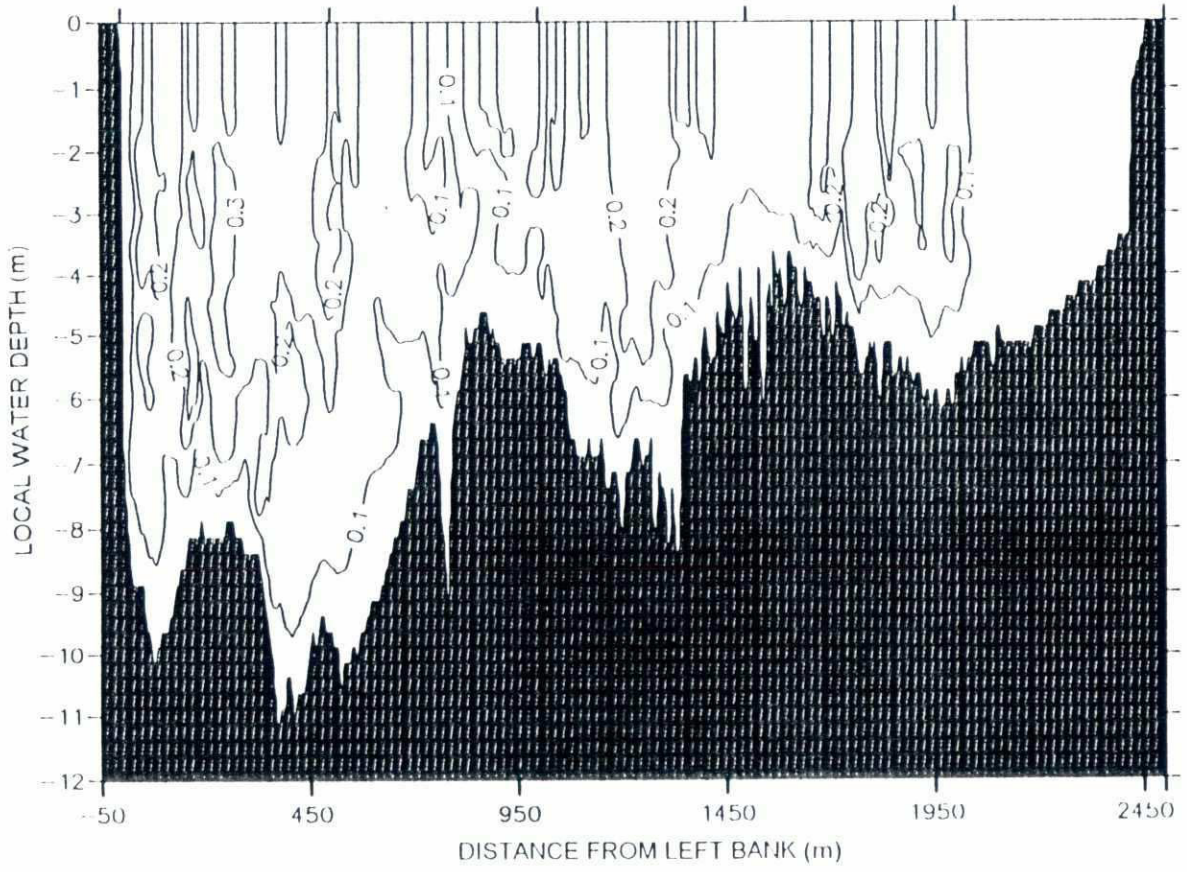
Iso-velocity contours (m/s)
Water-level : 1.35 m + PWD measured at the station indicated on Page 1.1 at 02:28 hours on 18 Feb 95

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
File : M52I3T05	Date : 07 August 1995	Cross-sectional distribution of flow velocity	page
	Init : mzh/sjr	Channel 1	4 3



Iso-velocity contours (m/s)
Water-level : 1.24 m + PWD measured at the station indicated on Page 1.1
at 04:25 hours on 18 Feb 95

FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
File : M52I3T09	Date : 07 August 1995	Cross-sectional distribution of flow velocity	page
	Init : mzh/sjr	Channel 1	4.4



Iso-velocity contours (m/s)
Water-level : 1.29 m + PWD measured at the station indicated on Page 1.1
at 07:21 hours on 18 Feb 95

FAP 24 DELFT · DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 134 : 17 - 18 February, 1995	
		Location 6 : Padma River, Mawa	
File : M5213T15	Date : 07 August 1995	Cross-sectional distribution of flow velocity	page
	Init : mzh/sjr	Channel 1	45

Andreasen settling tube

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9502171500-1543	5.80	87.35	12.65	0.004	0.016	0.046
		9502171500-1543	5.80	93.01	6.99	0.006	0.007	0.012
		9502171822-1850	5.70	88.25	11.75	0.004	0.007	0.019
		9502171822-1850	5.70	87.20	12.80	0.005	0.011	0.020
		9502172100-2128	5.50	94.88	5.12	0.003	0.004	0.006
		9502172100-2128	5.50	93.51	6.49	0.007	0.011	0.015
		9502180001-0031	6.10	97.34	2.66	0.003	0.005	0.007
		9502180001-0031	6.10	94.28	5.72	-	0.006	0.041
		9502180301-0347	5.90	87.19	12.81	0.007	0.010	0.015
		9502180601-0637	5.70	76.69	23.31	0.006	0.008	0.014
		9502180601-0637	5.70	95.28	4.72	0.004	0.006	0.008
		9502180906-0937	5.80	97.92	2.08	0.007	0.008	0.011
		9502180906-0937	5.80	85.94	14.06	0.012	0.014	0.018
		9502181202-1250	6.10	95.03	4.97	-	0.005	0.008
		9502181202-1250	6.10	90.14	9.86	0.007	0.008	0.016
		9502181600-1630	5.90	94.62	5.38	0.008	0.014	0.025
		9502181600-1630	5.90	78.53	21.47	0.005	0.009	0.021
	2	9502171500-1527	11.00	74.05	25.95	0.011	0.020	0.031
		9502171500-1527	11.00	91.81	8.19	0.004	0.014	0.031
		9502171800-1830	11.00	69.69	30.31	0.014	0.038	0.058
		9502171800-1830	11.00	83.37	16.63	0.008	0.016	0.040
		9502172100-2113	10.60	94.94	5.06	0.004	0.006	0.012
		9502172100-2113	10.60	89.50	10.50	0.004	0.008	0.015
		9502180004-0041	11.20	93.78	6.22	0.012	0.020	0.029
		9502180004-0041	11.20	91.13	8.87	0.009	0.011	0.013
		9502180302-0330	11.00	80.48	19.52	0.007	0.012	0.024
		9502180302-0330	11.00	90.99	9.01	0.007	0.009	0.017
		9502180602-0624	10.90	75.38	24.62	0.005	0.010	0.032
		9502180602-0624	10.90	85.04	14.96	0.008	0.017	0.026
		9502180900-0930	10.70	92.68	7.32	0.006	0.009	0.014
		9502180900-0930	10.70	91.10	8.90	0.007	0.008	0.011
		9502181200-1230	11.50	92.80	7.20	0.007	0.009	0.023
		9502181200-1230	11.50	92.50	7.50	0.007	0.009	0.011
		9502181500-1530	11.00	86.00	14.00	0.005	0.006	0.009
		9502181500-1530	11.00	94.23	5.77	0.007	0.014	0.025

Table 5.1 Grain size of near bed suspended sediment (0.3 m above river bed)

Van Veen bed samples

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9502171500-1543	5.80	0.640	99.360	0.136	0.156	0.180
		9502172200-2223	5.60	3.188	96.812	0.101	0.126	0.155
		9502180301-0347	5.90	0.946	99.054	0.129	0.150	0.175
		9502181000-1055	6.10	1.083	98.917	0.115	0.141	0.167
		9502181600-1630	5.90	0.578	99.422	0.139	0.159	0.183

Table 5.2 Grain size of bed material (continued)

US BM-54 bed samples

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	2	9502171603-1630	11.00	27.897	72.103	0.069	0.084	0.103
		9502172100-2113	10.60	1.715	98.285	0.095	0.114	0.141
		9502180302-0330	11.00	31.905	68.095	0.066	0.081	0.100
		9502180900-0930	10.70	1.947	98.053	0.103	0.128	0.157
		9502181500-1530	11.00	23.564	76.436	0.072	0.087	0.105

Table 5.2 : Grain size of bed material

Helley - Smith

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	1	9502180109-0139	6.00	2.866	97.134	0.150	0.180	0.215
		9502180204-0234	6.00	2.349	97.651	0.128	0.155	0.189
		9502180301-0347	5.90	-	-	-	-	-
		9502180404-0441	5.80	1.767	98.233	0.166	0.195	0.229
		9502180515-0545	5.80	1.150	98.850	0.160	0.184	0.212
		9502180601-0637	5.70	1.421	98.579	0.159	0.184	0.214
		9502180703-0738	5.70	-	-	-	-	-
	2	9502171500-1527	11.00	2.196	97.804	0.182	0.236	0.303
		9502171603-1630	11.00	3.716	96.284	0.152	0.200	0.266
		9502171654-1725	11.00	3.459	96.541	0.147	0.189	0.242
		9502171800-1830	11.00	4.082	95.918	0.168	0.216	0.283
		9502171907-1930	11.00	-	-	-	-	-
		9502180004-0041	11.20	1.601	98.399	0.199	0.260	0.326
		9502180102-0143	10.90	1.057	98.943	0.207	0.265	0.326
		9502180202-0228	11.20	1.123	98.877	0.205	0.265	0.330
		9502180302-0330	11.00	1.149	98.851	0.219	0.277	0.338
		9502180357-0437	11.00	0.598	99.402	0.228	0.285	0.348
		9502180506-0530	11.00	2.164	97.836	0.196	0.254	0.319
		9502180602-0624	10.90	1.059	98.941	0.199	0.251	0.316
		9502180703-0736	11.00	5.862	94.138	0.159	0.203	0.265
		9502181100-1130	11.30	6.800	93.200	0.105	0.138	0.182
		9502181200-1230	11.50	0.618	99.382	0.204	0.260	0.320
		9502181300-1330	11.00	2.227	97.773	0.170	0.221	0.288
		9502181400-1430	11.00	1.995	98.005	0.196	0.266	0.340
		9502181500-1530	11.00	2.797	97.203	0.179	0.237	0.306
		9502181600-1615	11.00	2.695	97.305	0.181	0.241	0.309
		9502171500-1527	11.00	3.527	96.473	0.170	0.219	0.286

Table 5.3 : Grain sizes of bed load

Delft Bottle

Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth (m)	Weight percent < 0.06 mm	Weight percent > 0.06 mm	D35 (mm)	D50 (mm)	D65 (mm)
1	2	9502171500-1527	11.00	5.078	94.922	0.099	0.124	0.173
		9502171603-1630	11.00	5.294	94.706	0.104	0.142	0.238
		9502171654-1725	11.00	7.952	92.048	0.087	0.104	0.125
		9502171800-1830	11.00	12.051	87.949	0.080	0.093	0.108
		9502171907-1930	11.00	5.533	94.467	0.088	0.104	0.123
		9502172000-2030	11.00	7.471	92.529	0.087	0.104	0.123
		9502172100-2113	10.60	-	-	-	-	-
		9502172200-2230	10.20	-	-	-	-	-
		9502172300-2330	11.30	2.906	97.094	0.091	0.108	0.131
		9502180004-0041	11.20	-	-	-	-	-
		9502180102-0143	10.90	6.940	93.060	0.084	0.097	0.113
		9502180202-0228	11.20	8.665	91.335	0.082	0.095	0.110
		9502180302-0330	11.00	5.069	94.931	0.087	0.102	0.119
		9502180357-0437	11.00	8.270	91.730	0.083	0.096	0.112
		9502180506-0530	11.00	8.433	91.567	0.084	0.098	0.115
		9502180602-0624	10.90	14.880	85.120	0.079	0.093	0.109
		9502180703-0736	11.00	4.144	95.856	0.087	0.102	0.119
		9502180803-0827	11.20	1.266	98.734	0.088	0.103	0.120
		9502180900-0930	10.70	0.449	99.551	0.094	0.111	0.137
		9502180900-0930	10.70	1.001	98.999	0.101	0.125	0.166
		9502181000-1030	10.70	-	-	-	-	-
		9502181100-1130	11.30	2.888	97.112	0.093	0.111	0.139
		9502181200-1230	11.50	-	-	-	-	-
		9502181300-1330	11.00	-	-	-	-	-
		9502181400-1430	11.00	4.741	95.259	0.090	0.107	0.131
		9502181500-1530	11.00	7.897	92.103	0.086	0.101	0.120
		9502181600-1615	11.00	6.944	93.056	0.086	0.101	0.119
		9502171500-1527	11.00	5.033	94.967	0.106	0.147	0.227
		9502171603-1630	11.00	6.165	93.835	0.104	0.146	0.244
		9502171654-1725	11.00	6.614	93.386	0.089	0.106	0.133
		9502171800-1830	11.00	-	-	-	-	-
		9502171907-1930	11.00	13.359	86.641	0.080	0.094	0.110
		9502172000-2030	11.00	-	-	-	-	-
		9502172100-2113	10.60	4.078	95.922	0.104	0.139	0.208
		9502172200-2230	10.20	-	-	-	-	-
		9502172300-2330	11.30	-	-	-	-	-
		9502180004-0041	11.20	-	-	-	-	-
		9502180102-0143	10.90	12.824	87.176	0.079	0.092	0.107
		9502180202-0228	11.20	14.715	85.285	0.079	0.093	0.110
		9502180302-0330	11.00	13.033	86.967	0.079	0.091	0.106
		9502180357-0437	11.00	14.805	85.195	0.079	0.092	0.109
		9502180506-0530	11.00	13.377	86.623	0.079	0.092	0.107
		9502180602-0624	10.90	14.165	85.835	0.078	0.091	0.106
		9502180703-0736	11.00	6.728	93.272	0.085	0.100	0.118
		9502180803-0827	11.20	3.368	96.632	0.088	0.103	0.120
		9502180900-0930	11.70	-	-	-	-	-
		9502181000-1030	11.70	-	-	-	-	-
		9502181100-1130	11.30	-	-	-	-	-
		9502181200-1230	11.50	2.846	97.154	0.093	0.111	0.140
		9502181300-1330	11.00	-	-	-	-	-
		9502181400-1430	11.00	-	-	-	-	-
		9502181500-1530	11.00	6.813	93.187	0.086	0.102	0.120
		9502181600-1615	11.00	16.104	83.896	0.076	0.089	0.104

Table 5.4 Grain sizes of bed load

Method	Channel	Line	Time (YYMMDDHHMM-HHMM)	File name
Echo sounding	1	5	9502171548-1556	M52H3B01
			9502171934-1941	M52H3B03
			9502172144-2150	M52H3B04
			9502180149-0158	M52I3B01
			9502180348-0358	M52I3B02
			9502180746-0753	M52I3B03
			9502180944-0951	M52I3B04
			9502181248-1257	M52I3B05
			9502181556-1604	M52I3B06

Table 6.1: Echo sounding

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
ADCP & EMF transect	1	9502171501-1521	M52H3T01
		9502171523-1541	M52H3T02
		9502171612-1630	M52H3T03
		9502171639-1654	M52H3T04
		9502171701-1719	M52H3T05
		9502171721-1737	M52H3T06
		9502171818-1832	M52H3T07
		9502171909-1927	M52H3T08
		9502172004-2020	M52H3T09
		9502172023-2041	M52H3T10
		9502172101-2117	M52H3T11
		9502172120-2138	M52H3T12 *
		9502172200-2219	M52H3T13
		9502172221-2238	M52H3T14
		9502172259-2319	M52H3T15
		9502172321-2339	M52H3T16 *
		9502180005-0026	M52H3T17
		9502180037-0054	M52I3T01
		9502180058-0118	M52I3T02
		9502180120-0140	M52I3T03
		9502180205-0225	M52I3T04
		9502180228-0248	M52I3T05 *
		9502180300-0321	M52I3T06
		9502180322-0340	M52I3T07
		9502180405-0424	M52I3T08
		9502180425-0442	M52I3T09 *
		9502180532-0552	M52I3T10

Table 6.2: ADCP & EMF transects (continued) * : transect in PSD 24 data base and presented in Sections 3 and 4

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
ADCP & EMF transect	1	9502180554-0614	M52I3T11
		9502180616-0635	M52I3T12
		9502180641-0658	M52I3T13
		9502180701-0720	M52I3T14
		9502180721-0740	M52I3T15 *
		9502180800-0818	M52I3T16
		9502180819-0837	M52I3T17
		9502180901-0918	M52I3T18
		9502180920-0938	M52I3T19
		9502181000-1018	M52I3T20
		9502181020-1037	M52I3T21
		9502181100-1119	M52I3T22
		9502181120-1137	M52I3T23
		9502181202-1220	M52I3T24
		9502181223-1239	M52I3T25
		9502181301-1318	M52I3T26
		9502181321-1337	M52I3T27
		9502181401-1421	M52I3T28
		9502181452-1510	M52I3T30
		9502181514-1533	M52I3T31
		9502181534-1551	M52I3T32
		9502181608-1626	M52I3T33
		9502181629-1644	M52I3T34

Table 6.2 ADCP & EMF transects

* : transect in PSD 24 data base and presented in Sections 3 and 4

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9502171500-1543	528385	593222	5.80	M52H2P01 **
			9502171604-1630	528384	593222	5.80	M52H2P02 **
			9502171735-1756	528385	593222	5.70	M52H2P03 **
			9502171822-1850	528384	593221	5.70	M52H2P04 **
			9502171907-1925	528385	593221	5.80	M52H2P05 **
			9502172000-2021	528381	593232	5.90	M52H2P06 **
			9502172100-2128	528369	593233	5.50	M52H2P07 **
			9502172200-2223	528374	593233	5.60	M52H2P08 **
			9502172300-2316	528385	593223	6.20	M52H2P09 **
			9502180001-0031	528385	593225	6.10	M52I2P01 **
			9502180109-0139	528386	593224	6.00	M52I2P07 **
			9502180204-0234	528386	593222	6.00	M52I2P09 **
			9502180301-0347	528385	593223	5.90	M52I2P11 **
			9502180404-0441	528385	593221	5.80	M52I2P15 **
			9502180515-0545	528386	593223	5.80	M52I2P19 **
			9502180601-0637	528386	593222	5.70	M52I2P22 **
			9502180703-0738	528385	593221	5.70	M52I2P26 **
			9502180807-0856	528385	593223	6.00	M52I2P29 **

Table 6.3 Vertical profiles (continued)

* Mex not available

** ADCP and Mex not available

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9502180906-0937	528363	593223	5.80	M52I2P33 **
			9502181000-1055	528363	593216	6.10	M52I2P34 **
			9502181100-1126	528381	593219	6.20	M52I2P35 **
			9502181202-1250	528387	593225	6.10	M52I2P36 **
			9502181300-1326	528385	593225	6.10	M52I2P37 **
			9502181400-1442	528385	593225	6.10	M52I2P38 **
			9502181500-1546	528384	593218	5.80	M52I2P39 **
			9502181600-1630	528385	593227	5.90	M52I2P40 **
		2	9502171500-1527	528917	594650	11.00	M52H1P01 * M52H1P03 *
			9502171603-1630	528917	594650	11.00	M52H1P05 * M52H1P06 * M52H1P07 *
			9502171654-1725	528916	594649	11.00	M52H1P09 * M52H1P10 *
			9502171800-1830	528917	594653	11.00	M52H1P15 *
			9502171907-1930	528911	594643	11.00	M52H1P17 * M52H1P19 *
			9502172000-2030	528910	594649	11.00	M52H1P21 * M52H1P22 *
			9502172100-2113	528902	594654	10.60	M52H1P25 * M52H1P26 *
			9502172200-2230	528909	594461	10.20	M52H1P29 * M52H1P30 *
			9502172300-2330	528911	594645	11.30	M52H1P33 * M52H1P34 *
			9502180004-0041	528915	594647	11.20	M52I1P02 * M52I1P03 *

Table 6.3 Vertical profiles (continued)

* Mex not available

** ADCP and Mex not available

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	2	9502180102-0143	528916	594650	10.90	M52I1P05 * M52I1P06 * M52I1P07 *
			9502180202-0228	528916	594648	11.20	M52I1P09 * M52I1P10 * M52I1P11 *
			9502180302-0330	528916	596648	11.00	M52I1P15 * M52I1P16 *
			9502180357-0437	528916	594651	11.00	M52I1P19 * M52I1P21 *
			9502180506-0530	528917	594652	11.00	M52I1P23 * M52I1P24 * M52I1P25 *
			9502180602-0624	528917	594653	10.90	M52I1P27 * M52I1P28 * M52I1P29 *
			9502180703-0736	528915	594647	11.00	M52I1P31 * M52I1P32 * M52I1P33 *
			9502180803-0827	528909	594654	11.20	M52I1P35 * M52I1P36 * M52I1P37 *
			9502180900-0930	528895	594652	10.70	M52I1P38 * M52I1P39 *
			9502181000-1030	528882	594650	10.70	M52I1P41 * M52I1P42 *
			9502181100-1130	528928	594652	11.30	M52I1P45 * M52I1P46 *
			9502181200-1230	528929	594648	11.50	M52I1P49 * M52I1P50 *
			9502181300-1330	528916	594650	11.00	M52I1P55 * M52I1P56 *
			9502181400-1430	528918	594660	11.00	M52I1P61 * M52I1P62 *
			9502181500-1530	528916	594651	11.00	M52I1P65 * M52I1P66 *
			9502181600-1615	528916	594651	11.00	M52I1P69 * M52I1P70 *

Table 6.3 : Vertical profiles

* Mex not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1	3	9502171500-1543	528385	593222	5.80
		1	3	9502171604-1630	528384	593222	5.80
		1	3	9502171735-1756	528385	593222	5.70
		1	3	9502171822-1850	528384	593221	5.70
		1	3	9502171907-1925	528385	593221	5.80
		1	3	9502172000-2021	528381	593232	5.90
		1	3	9502172100-2128	528369	593233	5.50
		1	3	9502172200-2223	528374	593233	5.60
		1	3	9502172300-2316	528385	593223	6.20
		1	3	9502180001-0031	528385	593225	6.10
		1	3	9502180109-0139	528386	593224	6.00
		1	3	9502180204-0234	528386	593222	6.00
		1	3	9502180301-0347	528385	593223	5.90
		1	3	9502180404-0441	528385	593221	5.80
		1	3	9502180515-0545	528386	593223	5.80
		1	3	9502180601-0637	528386	593222	5.70
		1	3	9502180703-0738	528385	593221	5.70
		1	3	9502180807-0856	528385	593223	6.00
		1	3	9502180906-0937	528363	593223	5.80
		1	3	9502181000-1055	528363	593216	6.10
		1	3	9502181100-1126	528381	593219	6.20
		1	3	9502181202-1250	528387	593225	6.10
		1	3	9502181300-1326	528385	593225	6.10
		1	3	9502181400-1442	528385	593225	6.10
		1	3	9502181500-1546	528384	593218	5.80
		1	3	9502181600-1630	528385	593227	5.90
	1	2	3	9502171500-1527	528917	594650	11.00
		2	3	9502171603-1630	528917	594650	11.00
		2	3	9502171654-1725	528916	594649	11.00
		2	3	9502171800-1830	528917	594653	11.00
		2	3	9502171907-1930	528911	594643	11.00
		2	3	9502172000-2030	528910	594649	11.00
		2	3	9502172100-2113	528902	594654	10.60
		2	3	9502172200-2230	528909	594461	10.20
		2	3	9502172300-2330	528911	594645	11.30
		2	3	9502180004-0041	528915	594647	11.20
		2	3	9502180102-0143	528916	594650	10.90
		2	3	9502180202-0228	528916	594648	11.20
		2	3	9502180302-0330	528916	596648	11.00
		2	3	9502180357-0437	528916	594651	11.00
		2	3	9502180506-0530	528917	594652	11.00
		2	3	9502180602-0624	528917	594653	10.90
		2	3	9502180703-0736	528915	594647	11.00
		2	3	9502180803-0827	528909	594654	11.20
		2	3	9502180900-0930	528895	594652	10.70
		2	3	9502181000-1030	528882	594650	10.70
		2	3	9502181100-1130	528928	594652	11.30
		2	3	9502181200-1230	528929	594648	11.50
		2	3	9502181300-1330	528916	594650	11.00
		2	3	9502181400-1430	528918	594660	11.00
		2	3	9502181500-1530	528916	594651	11.00
		2	3	9502181600-1615	528916	594651	11.00

Table 6.4 Suspended sediment - point sampled

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Helley - Smith Sample	1	1	9502180109-0139	528386	593224	6.00	A3032
			9502180204-0234	528386	593222	6.00	A3030
			9502180301-0347	528385	593223	5.90	A3034
			9502180404-0441	528385	593221	5.80	A3028
			9502180515-0545	528386	593223	5.80	A2350
			9502180601-0637	528386	593222	5.70	A1984
			9502180703-0738	528385	593221	5.70	A897
		2	9502171500-1527	528917	594650	11.00	A740
			9502171603-1630	528917	594650	11.00	A1952
			9502171654-1725	528916	594649	11.00	A2201
			9502171800-1830	528917	594653	11.00	A2238
			9502171907-1930	528911	594643	11.00	A2285
			9502180004-0041	528915	594647	11.20	A1684
			9502180102-0143	528916	594650	10.90	A2017
			9502180202-0228	528916	594648	11.20	A2286
			9502180302-0330	528916	596648	11.00	A2277
			9502180357-0437	528916	594651	11.00	A2265
			9502180506-0530	528917	594652	11.00	A2333
			9502180602-0624	528917	594653	10.90	A3027
			9502180703-0736	528915	594647	11.00	A2335
			9502181100-1130	528928	594652	11.30	A2134
			9502181200-1230	528929	594648	11.50	A1888
			9502181300-1330	528916	594650	11.00	A915
			9502181400-1430	528918	594660	11.00	A1998
			9502181500-1530	528916	594651	11.00	A3015
			9502181600-1615	528916	594651	11.00	A2305
			9502171500-1527	528917	594650	11.00	A2309

Table 6.5 Bed load

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Delft Bottle Sample	1	2	9502171500-1527	528917	594650	11.00	A1030
			9502171603-1630	528917	594650	11.00	A1035
			9502171654-1725	528916	594649	11.00	A965
			9502171800-1830	528917	594653	11.00	A962
			9502171907-1930	528911	594643	11.00	A767
			9502172000-2030	528910	594649	11.00	A942
			9502172100-2113	528902	594654	10.60	A949
			9502172200-2230	528909	594461	10.20	A1054
			9502172300-2330	528911	594645	11.30	A937
			9502180004-0041	528915	594647	11.20	A137
			9502180102-0143	528916	594650	10.90	A966
			9502180202-0228	528916	594648	11.20	A793
			9502180302-0330	528916	596648	11.00	A753
			9502180357-0437	528916	594651	11.00	A957
			9502180506-0530	528917	594652	11.00	A984
			9502180602-0624	528917	594653	10.90	A750
			9502180703-0736	528915	594647	11.00	A975

Table 6.6 Bed load (continued)

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Delft Bottle Sample	1	2	9502180803-0827	528909	594654	11.20	A969
			9502180900-0930	528895	594652	10.70	A997
			9502180900-0930	528895	594652	10.70	A134
			9502181000-1030	528882	594650	10.70	A979
			9502181100-1130	528928	594652	11.30	A940
			9502181200-1230	528929	594648	11.50	A1060
			9502181300-1330	528916	594650	11.00	A964
			9502181400-1430	528918	594660	11.00	A987
			9502181500-1530	528916	594651	11.00	A1042
			9502181600-1615	528916	594651	11.00	A790
			9502171500-1527	528917	594650	11.00	A1037
			9502171603-1630	528917	594650	11.00	A1043
			9502171654-1725	528916	594649	11.00	A762
			9502171800-1830	528917	594653	11.00	A970
			9502171907-1930	528911	594643	11.00	A1015
			9502172000-2030	528910	594649	11.00	A1033
			9502172100-2113	528902	594654	10.60	A968
			9502172200-2230	528909	594461	10.20	A1047
			9502172300-2330	528911	594645	11.30	A1045
			9502180004-0041	528915	594647	11.20	A1025
			9502180102-0143	528916	594650	10.90	A785
			9502180202-0228	528916	594648	11.20	A1009
			9502180302-0330	528916	596648	11.00	A780
			9502180357-0437	528916	594651	11.00	A999
			9502180506-0530	528917	594652	11.00	A1050
			9502180602-0624	528917	594653	10.90	A971
			9502180703-0736	528915	594647	11.00	A760
			9502180803-0827	528909	594654	11.20	A139
			9502180900-0930	528895	594652	10.70	A764
			9502181000-1030	528882	594650	10.70	A954
			9502181100-1130	528928	594652	11.30	A1056
			9502181200-1230	528929	594648	11.50	A1017
			9502181300-1330	528916	594650	11.00	A939
			9502181400-1430	528918	594660	11.00	A963
			9502181500-1530	528916	594651	11.00	A974
			9502181600-1615	528916	594651	11.00	A956

Table 6.6: Bed load

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Van Veen bed samples	1	1	9502171500-1543	528385	593222	5.80	V-1
			9502172200-2223	528374	593233	5.60	V-2
			9502180301-0347	528385	593223	5.90	V-3
			9502181000-1055	528363	593216	6.10	V-4
			9502181600-1630	528385	593227	5.90	V-5
US BM-54 bed samples		2	9502171603-1630	528917	594650	11.00	U-1
			9502172100-2113	528902	594654	10.60	U-2
			9502180302-0330	528916	596648	11.00	U-3
			9502180900-0930	528895	594652	10.70	U-4
			9502181500-1530	528916	594651	11.00	U-5

Table 6.7: Bed material

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Andreasen settling tube	1	1	9502171500-1543	528385	593222	5.80	A454
			9502171500-1543	528385	593222	5.80	A453
			9502171822-1850	528384	593221	5.70	A858
			9502171822-1850	528384	593221	5.70	A10
			9502172100-2128	528369	593233	5.50	A855
			9502172100-2128	528369	593233	5.50	A720
			9502180001-0031	528385	593225	6.10	A852
			9502180001-0031	528385	593225	6.10	A851
			9502180301-0347	528385	593223	5.90	A6
			9502180601-0637	528386	593222	5.70	A7
			9502180601-0637	528386	593222	5.70	A932
			9502180906-0937	528363	593223	5.80	A930
			9502180906-0937	528363	593223	5.80	A2
			9502181202-1250	528387	593225	6.10	A727
			9502181202-1250	528387	593225	6.10	A452
			9502181500-1546	528384	593218	5.80	A725
			9502181500-1546	528384	593218	5.80	A737
		2	9502171500-1527	528917	594650	11.00	A724
			9502171500-1527	528917	594650	11.00	A3
			9502171800-1830	528917	594653	11.00	A26
			9502171800-1830	528917	594653	11.00	A457
			9502172100-2113	528902	594654	10.60	A1073
			9502172100-2113	528902	594654	10.60	A735
			9502180004-0041	528915	594647	11.20	A14
			9502180004-0041	528915	594647	11.20	A728
			9502180302-0330	528916	596648	11.00	A5
			9502180302-0330	528916	596648	11.00	A722
			9502180602-0624	528917	594653	10.90	A721
			9502180602-0624	528917	594653	10.90	A1
			9502180900-0930	528895	594652	10.70	A734
			9502180900-0930	528895	594652	10.70	A28
			9502181200-1230	528929	594648	11.50	A853
			9502181200-1230	528929	594648	11.50	A934
			9502181500-1530	528916	594651	11.00	A23
			9502181500-1530	528916	594651	11.00	A4

Table 6.8: Suspended sediment

Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	M52H3T12 ase
		QUATTRO	M52H3T16 ase
		QUATTRO	M52I3T05 ase
		QUATTRO	M52I3T09 ase
		QUATTRO	M52I3T15 ase
Echosounder data	1	QUATTRO	M52H3T12 ech
		QUATTRO	M52H3T16 ech
		QUATTRO	M52I3T05 ech
		QUATTRO	M52I3T09 ech
		QUATTRO	M52I3T15 ech
Sediment transport data	1	QUATTRO	M52H3T12 sed
		QUATTRO	M52H3T16 sed
		QUATTRO	M52I3T05 sed
		QUATTRO	M52I3T09 sed
		QUATTRO	M52I3T15 sed
Bed load sed. analysis	1	QUATTRO	M52H3T12 bdl
		QUATTRO	M52H3T16 bdl
		QUATTRO	M52I3T05 bdl
		QUATTRO	M52I3T09 bdl
		QUATTRO	M52I3T15 bdl
Suspended sed. conc. analysis	1	QUATTRO	M52H3T12 ssc
		QUATTRO	M52H3T16 ssc
		QUATTRO	M52I3T05 ssc
		QUATTRO	M52I3T09 ssc
		QUATTRO	M52I3T15 ssc
Suspended sed. size analysis	1	QUATTRO	M52H3T12 ssz
		QUATTRO	M52H3T16 ssz
		QUATTRO	M52I3T05 ssz
		QUATTRO	M52I3T09 ssz
		QUATTRO	M52I3T15 ssz
Bed material analysis	1	QUATTRO	M52H3T12 bdm
		QUATTRO	M52H3T16 bdm
		QUATTRO	M52I3T05 bdm
		QUATTRO	M52I3T09 bdm
		QUATTRO	M52I3T15 bdm

Table 7 1 PSD 24 Database file description (continued)

Types of Data	Channel	Format	Filename
Transect plot data	1	QUATTRO	M52H3T12 .trs
		QUATTRO	M52H3T16 .trs
		QUATTRO	M52I3T05 .trs
		QUATTRO	M52I3T09 .trs
		QUATTRO	M52I3T15 .trs
Iso-velocity plot data	1	MIKE 21	M52H3T12 .ct2
		MIKE 21	M52H3T12 .dt2
Iso-velocity plot data	1	MIKE 21	M52H3T16 .ct2
		MIKE 21	M52H3T16 .dt2
Iso-velocity plot data	1	MIKE 21	M52I3T05 .ct2
		MIKE 21	M52I3T05 .dt2
Iso-velocity plot data	1	MIKE 21	M52I3T09 .ct2
		MIKE 21	M52I3T09 .dt2
Iso-velocity plot data	1	MIKE 21	M52I3T15 .ct2
		MIKE 21	M52I3T15 .dt2

Table 7.1 PSD 24 Database file description