

TABLE A7.6.1 Direction-wise Offshore Wave Heights Occurrence (1)
Quang Tri Offshore (N17.5° E107.5°)

Wave Height	0.00-0.49 m	0.50-0.99 m	1.00-1.49 m	1.50-1.99 m	2.00-2.49 m	2.50-2.99 m	3.00-3.99 m	4.00-4.99 m	5.00 m-	Total
NNE		1 0.03%	9 0.31%	10 0.34%	8 0.27%	3 0.10%				31 1.06%
NE		7 0.24%	10 0.34%	1 0.03%						18 0.62%
ENE	13 0.45%	650 22.26%	545 18.66%	170 5.82%	63 2.16%	24 0.82%	15 0.51%			1480 50.68%
E	26 0.89%	382 13.08%	109 3.73%	94 3.22%	79 2.71%	46 1.58%	13 0.45%			749 25.65%
ESE		30 1.03%	61 2.09%	3 0.10%						94 3.22%
SE		83 2.84%	75 2.57%	4 0.14%						162 5.55%
SSE	1 0.03%	46 1.58%	8 0.27%							55 1.88%
S		38 1.30%	2 0.07%	1 0.03%						41 1.40%
SSW		54 1.85%	9 0.31%	2 0.07%						65 2.23%
SW		58 1.99%	55 1.88%	4 0.14%						117 4.01%
WSW		8 0.27%	43 1.47%	5 0.17%						56 1.92%
W		4 0.14%	3 0.10%							7 0.24%
WNW										0 0.00%
NW		1 0.03%	1 0.03%							2 0.07%
NNW		1 0.03%	5 0.17%		1 0.03%					7 0.24%
N		2 0.07%	13 0.45%	18 0.62%		2 0.07%	1 0.03%			36 1.23%
Total	40 1.37%	1365 46.75%	948 32.47%	312 10.68%	151 5.17%	75 2.57%	29 0.99%	0 0.00%		2920 100.00%

Upper column: Estimated number of occurrences of the wave height

Lower column: Frequency of occurrences of the wave height

Data: 1 Jan. 1993 - 31 Dec. 1994

Site: N17.5° E107.5°

Estimated from wind data obtained by European Center for Medium Range Weather Forecast

TABLE A7.6.2 Direction-wise Offshore Wave Heights Occurrence (2)
Quang Ngai Offshore (N15° E110°)

Wave Height	0.00- 0.49 m	0.50- 0.99 m	1.00- 1.49 m	1.50- 1.99 m	2.00- 2.49 m	2.50- 2.99 m	3.00- 3.99 m	4.00- 4.99 m	5.00 m-	Total
NNE		8 0.27%	57 1.95%	57 1.95%	35 1.20%	33 1.13%	30 1.03%	1 0.03%		221 7.57%
NE		42 1.44%	146 5.00%	67 2.29%	25 0.86%	10 0.34%	5 0.17%			295 10.10%
ENE	2 0.07%	623 21.34%	465 15.92%	167 5.72%	45 1.54%	26 0.89%	23 0.79%	1 0.03%		1352 46.30%
E		2 0.07%	3 0.10%	4 0.14%	3 0.10%	2 0.07%	1 0.03%			15 0.51%
ESE	1 0.03%	2 0.07%	4 0.14%							7 0.24%
SE		42 1.44%	28 0.96%	3 0.10%						73 2.50%
SSE		118 4.04%	184 6.30%	15 0.51%	1 0.03%					318 10.89%
S		147 5.03%	159 5.45%	9 0.31%	1 0.03%					316 10.82%
SSW		68 2.33%	70 2.40%	4 0.14%	1 0.03%					143 4.90%
SW		39 1.34%	44 1.51%	8 0.27%						91 3.12%
WSW		2 0.07%	8 0.27%	1 0.03%						11 0.38%
W		2 0.07%								2 0.07%
WNW		1 0.03%								1 0.03%
NW		1 0.03%	2 0.07%	1 0.03%						4 0.14%
NNW		1 0.03%	2 0.07%	2 0.07%						5 0.17%
N			10 0.34%	17 0.58%	16 0.55%	10 0.34%	8 0.27%	5 0.17%		66 2.26%
Total	3 0.10%	1098 37.60%	1182 40.48%	355 12.16%	127 4.35%	81 2.77%	67 2.29%	7 0.24%		2920 100.00%

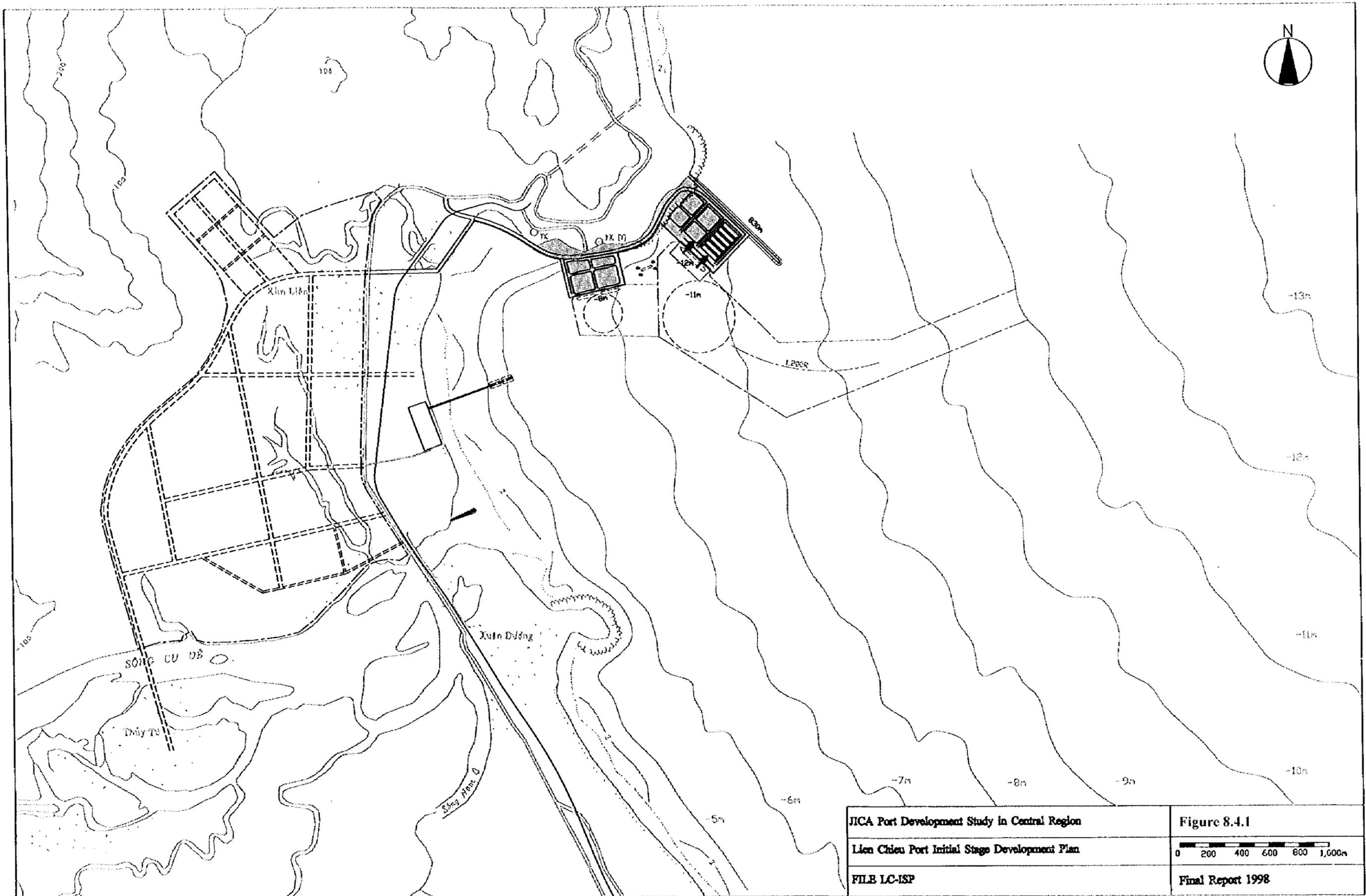
Upper column: Estimated number of occurrences of the wave height

Lower column: Frequency of occurrences of the wave height

Data: 1 Jan. 1993 - 31 Dec. 1994

Site: N15° E110°

Estimated from wind data obtained by European Center for Medium Range Weather Forecast



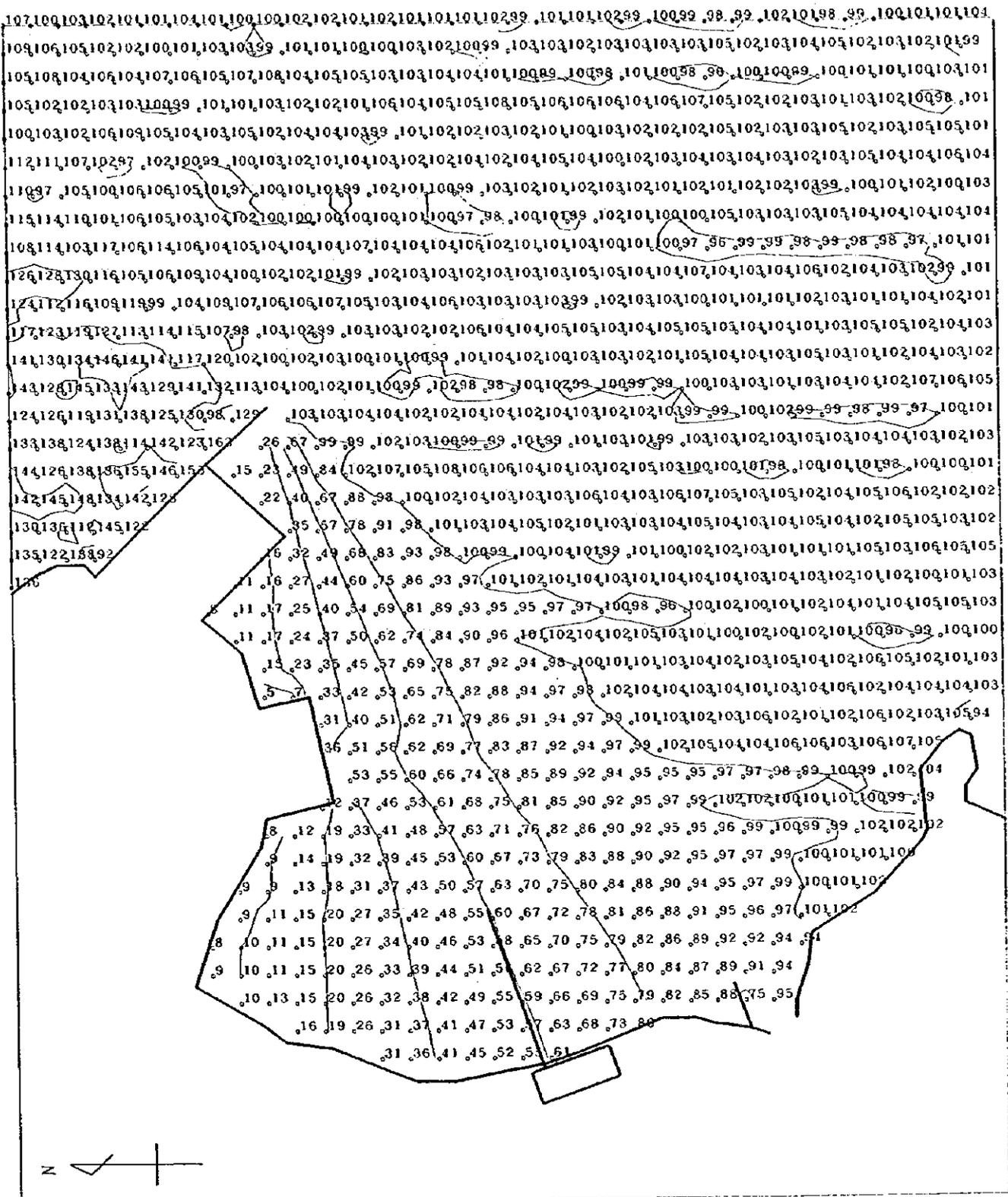


Figure A8.4.2 Wave Diffraction at the Stage of ISP (NE)

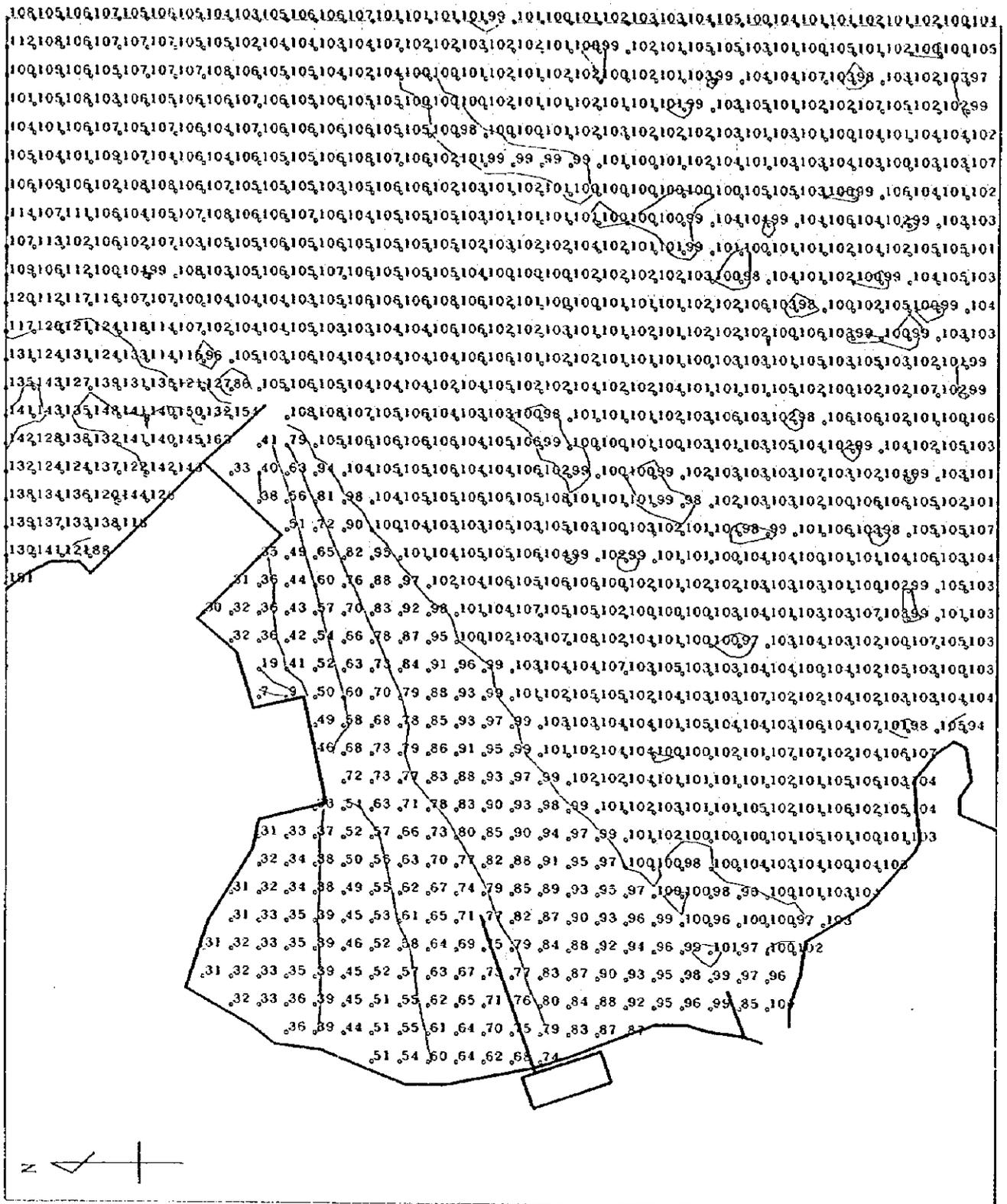


Figure A8.4.3 Wave Diffraction at the Stage of ISP (ENE)

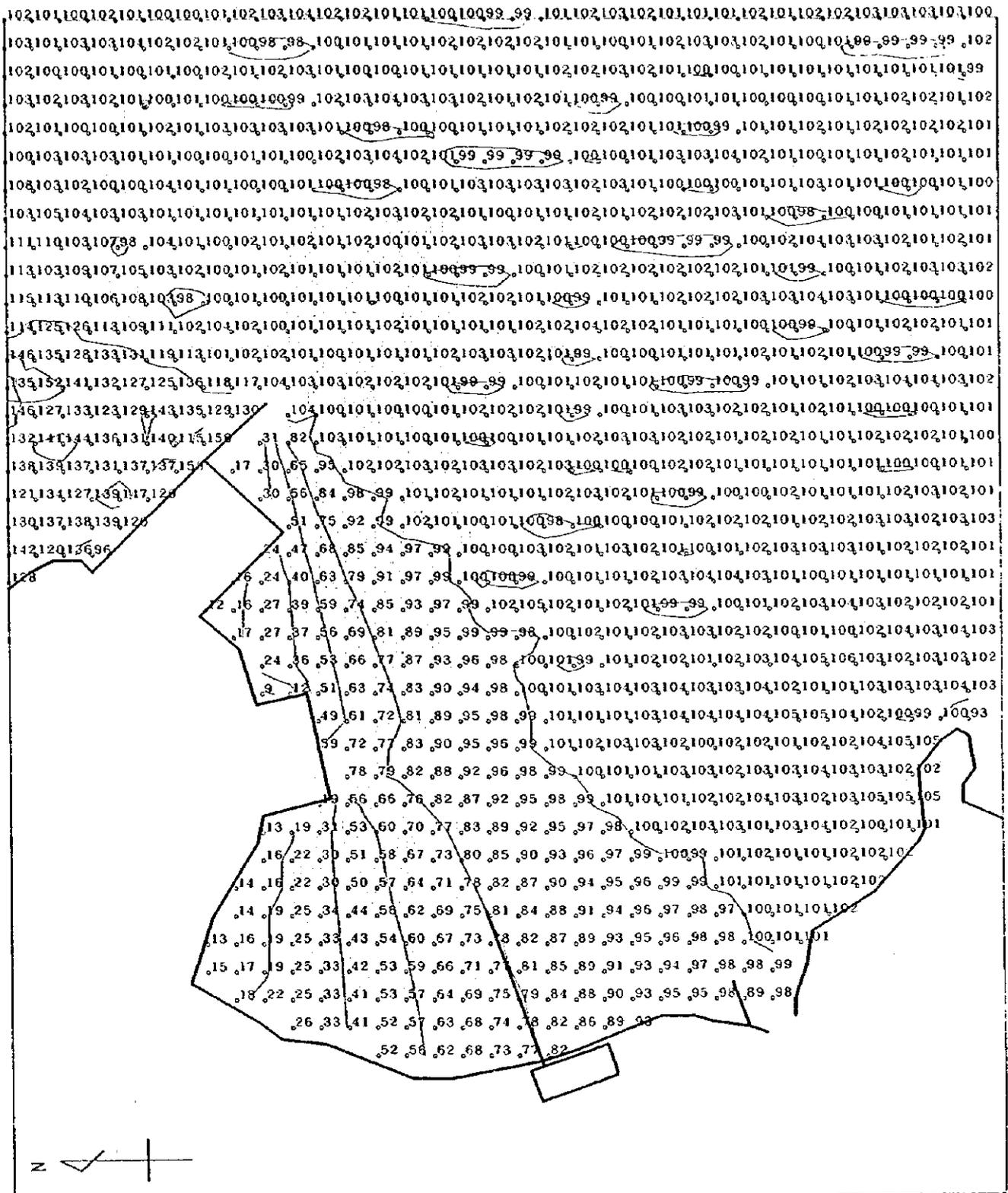


Figure A8.4.4 Wave Diffraction at the Stage of ISP (E)

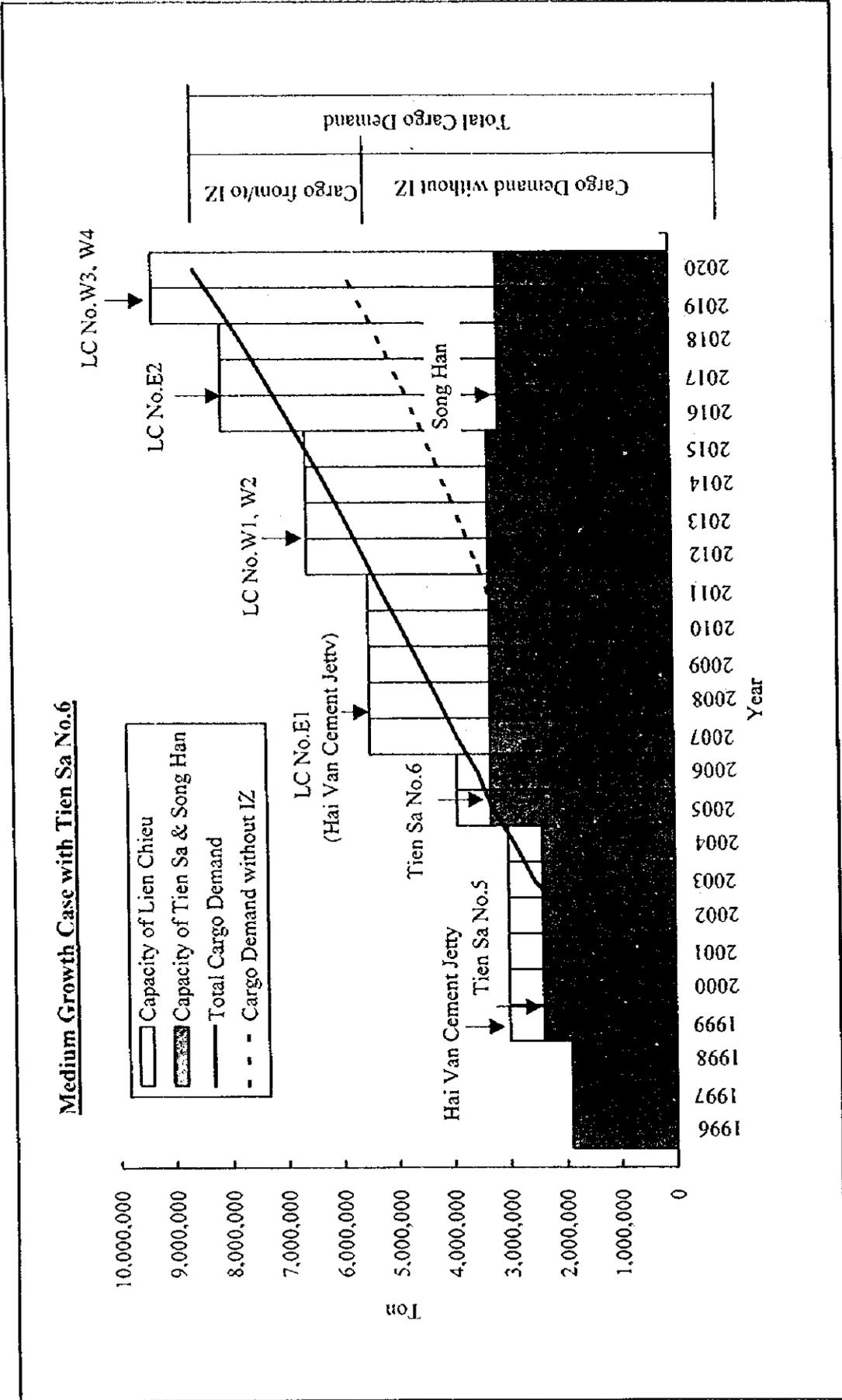


Figure A 8.5.1 Capacity and Cargo Throughput in Danang Port (Tien Sa, Song Han and Lien Chieu Area)

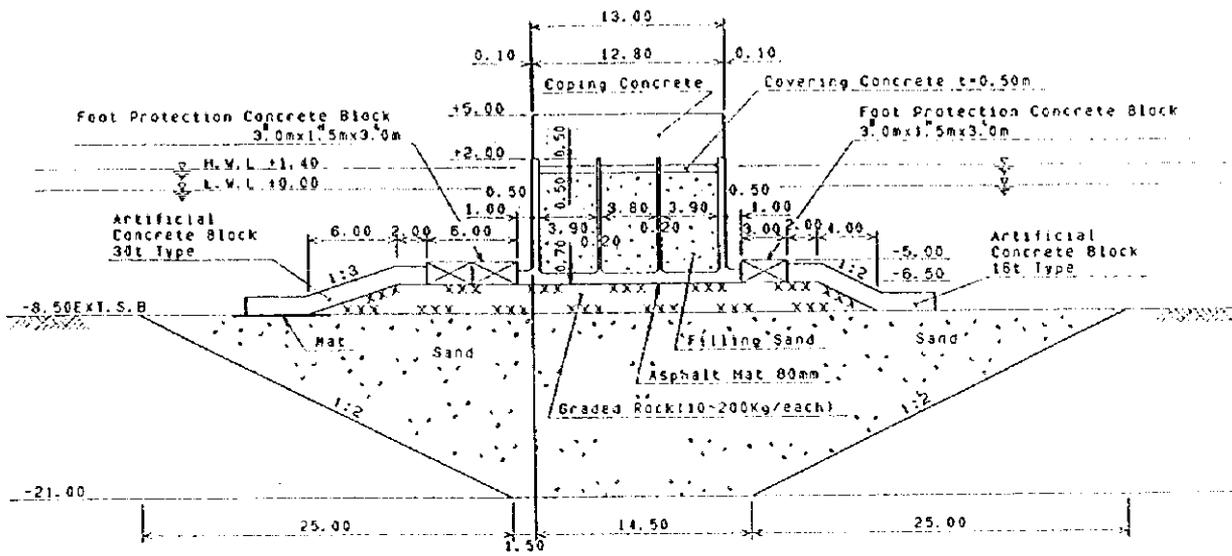


Figure A9.5.1(1) Typical Cross Section of Breakwater (RC Caisson)

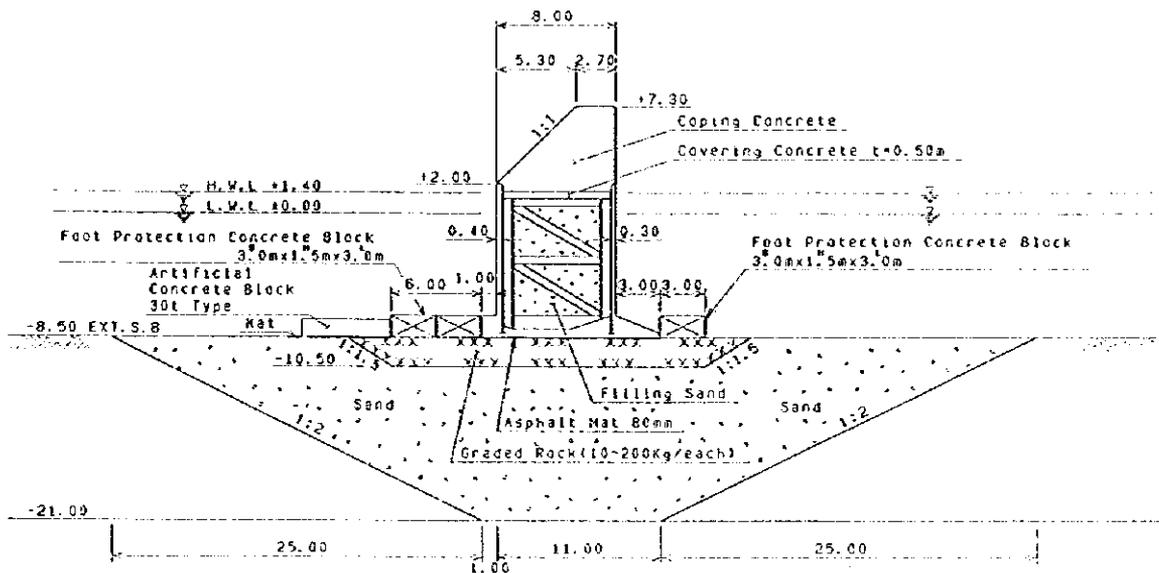


Figure A9.5.1(2) Typical Cross Section of Breakwater (Hybrid Caisson)

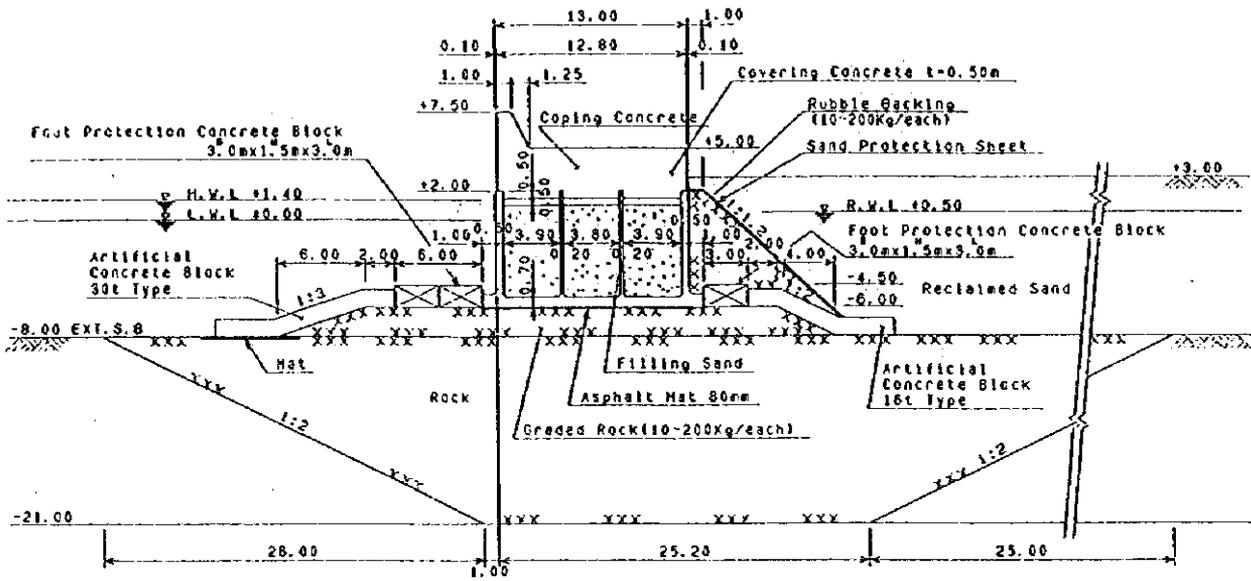


Figure A9.5.2(1) Typical Cross Section of Seawall (RC Caisson)

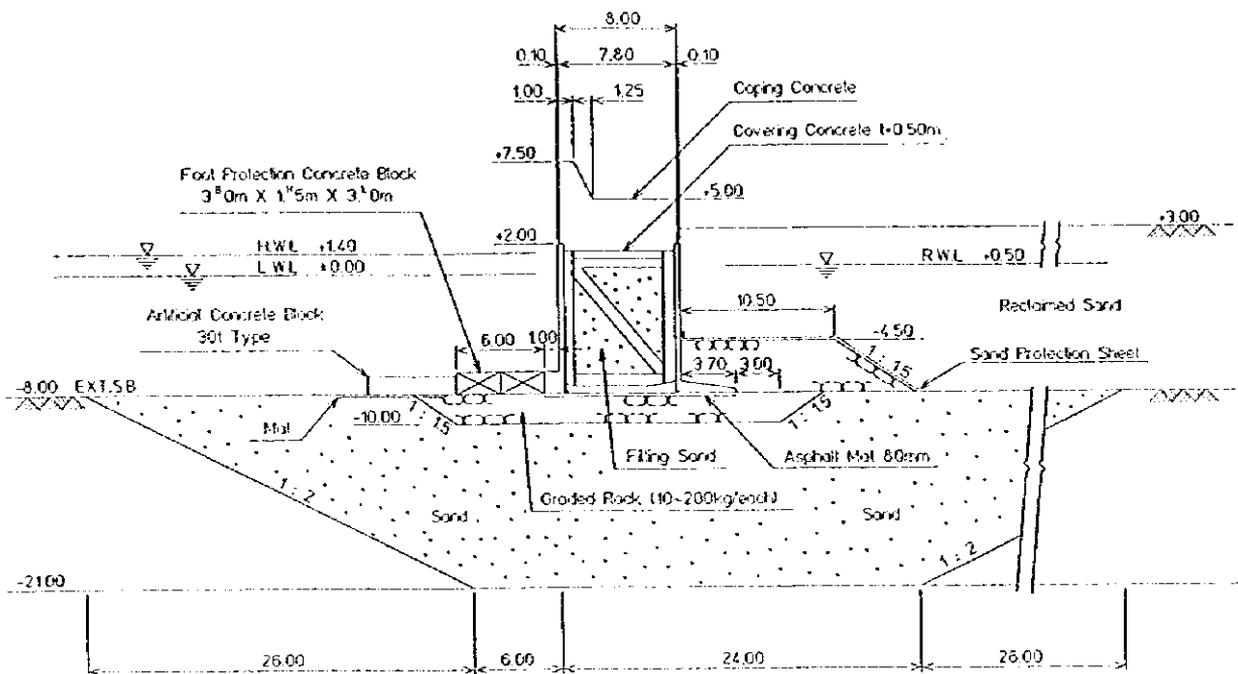


Figure A9.5.2(2) Typical Cross Section of Seawall (Hybrid Caisson)

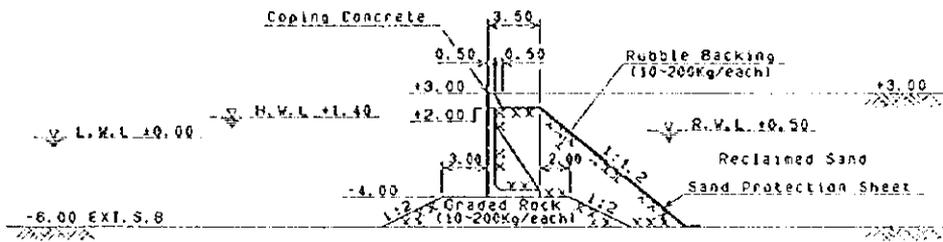


Figure 9.5.3(1) A Typical Cross Section of Revetment 1,3,4(L-Shaped Concrete Block)

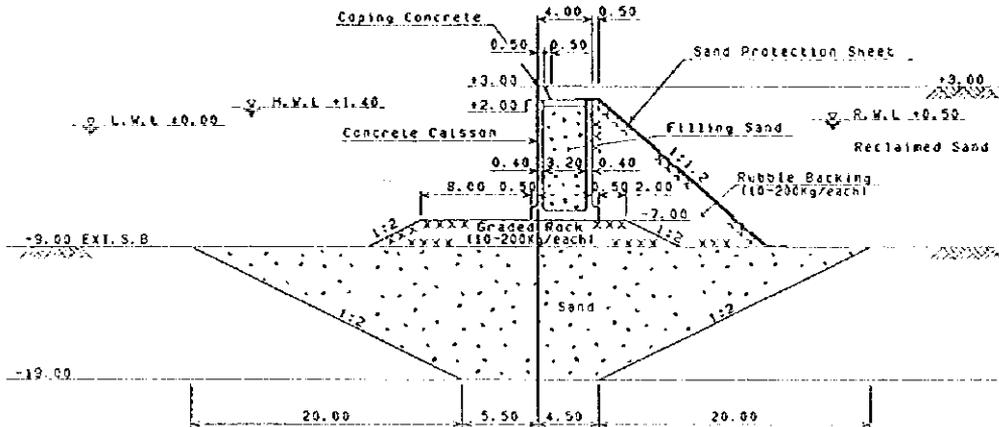


Figure A9.5.3(2) Typical Cross Section of Revetment 2 (RC Caisson)

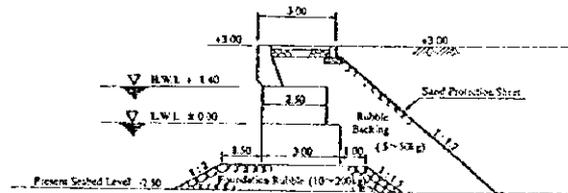


Figure A9.5.3(3) Typical Cross Section of Revetment for Road (Concrete Block)

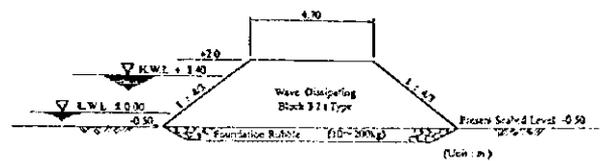


Figure A9.5.4 Typical Cross Section of Training Wall (Rubble Mound with Dissipating Concrete Block)

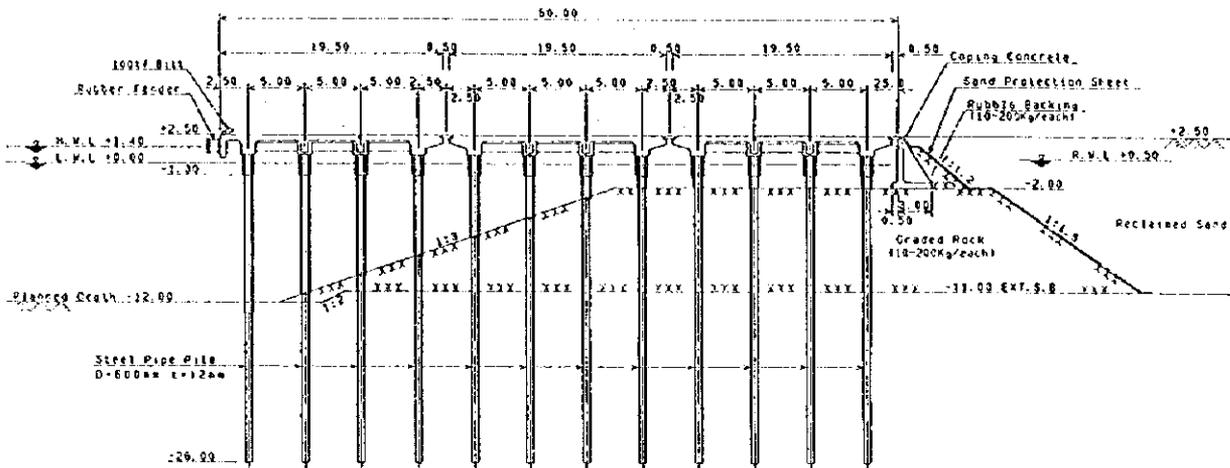


Figure A9.5.5(1) Typical Cross Section of Quaywall E1 (Open Pier with Retaining Wall)

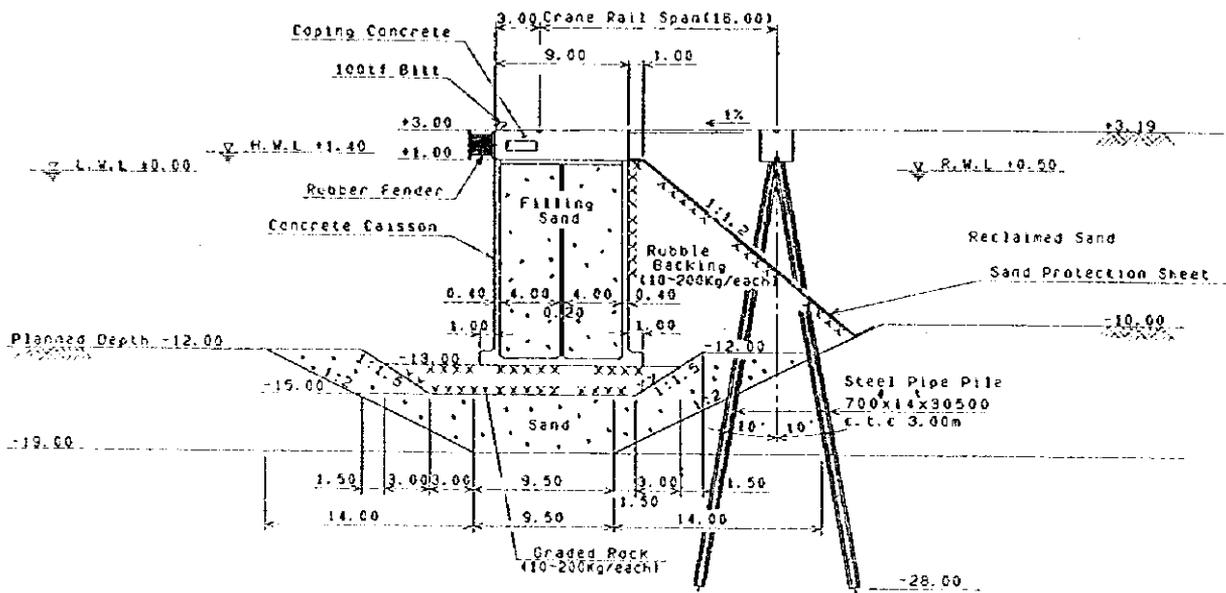


Figure A9.5.5(2) Typical Cross Section of Quaywall E1 (RC Caisson)

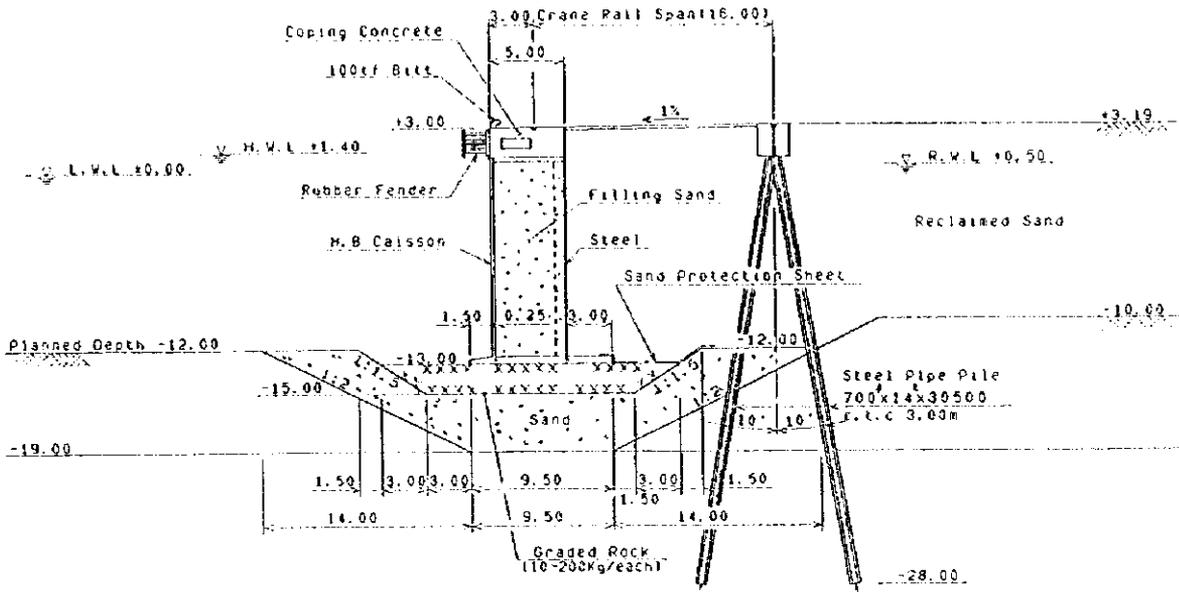


Figure A9.5.5(3) Typical Cross Section of Quaywall E1 (Hybrid Caisson)

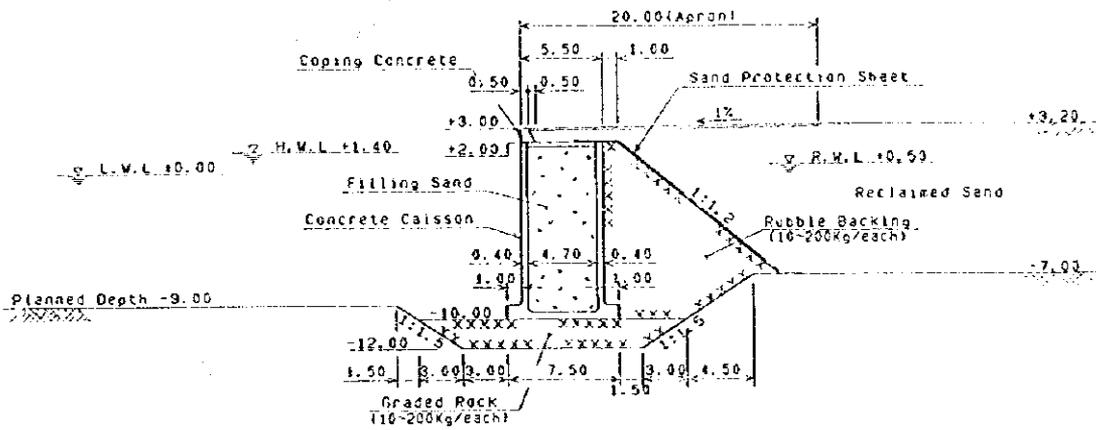
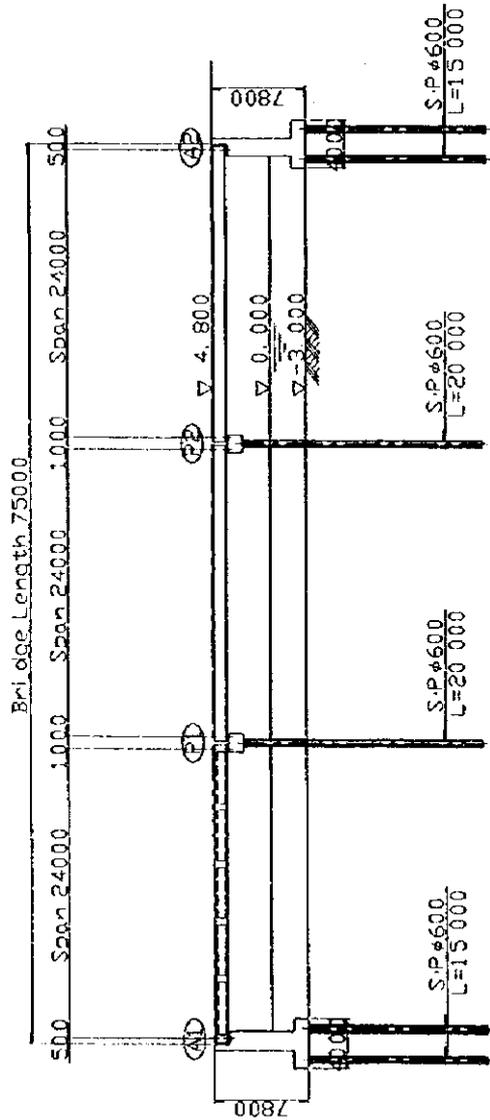


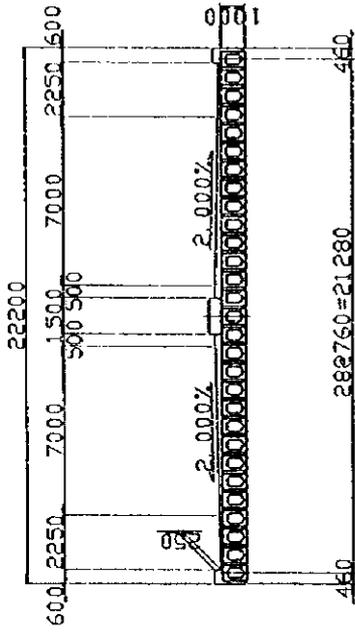
Figure A9.5.5(4) Typical Cross Section of Quaywall W1,W2 (RC Caisson)

PC-BRIDGE

Side View



Section 1-1



Plane

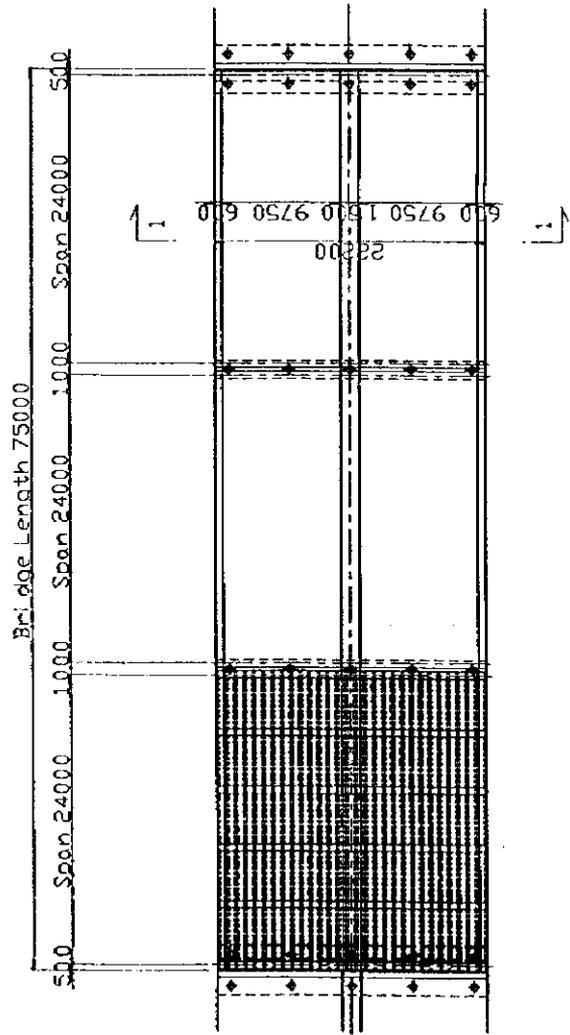


Figure A9.5.6 Typical Cross Section of Bridge (PC Girder)

Table A12.4.2 (I) Construction Costs in Economic Prices
(Short-term Development Plan, High Growth Case)

Unit: Thous.US\$

Year	Facilities	Cost of Investment in Market Prices	Foreign Portion (CIF)	Local Portion			Investment Costs in Economic Prices	Overall Conversion Factor	
				Total	Unskilled Labour (CFL) 0.168	Skilled Labour (CFC) 0.985			Local Products (SCF) 0.994
2000	Seawall	13,560	6,102	7,458	64	52	7,342	13,462	0.993
	Revetment for Road	1,674	670	1,004	9	7	988	1,661	0.992
	Training jetty	940	376	564	5	4	555	933	0.992
	Bridge	470	423	47	0	0	46	469	0.999
	Revetment R1	220	99	121	1	1	119	218	0.993
	Access Road	2,210	884	1,326	11	9	1,305	2,193	0.992
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,300	760	540	0	0	540	1,297	0.998
	(Total)	22,571	11,072	11,499	529	74	10,896	22,064	0.978
2001	Breakwater	4,480	2,016	2,464	21	17	2,426	4,448	0.993
	Seawall	9,040	4,068	4,972	43	35	4,894	8,975	0.993
	Revetment for Road	1,116	446	670	6	5	660	1,107	0.992
	Bridge	1,410	1,269	141	1	1	139	1,408	0.999
	Quaywall	4,230	1,904	2,326	20	16	2,290	4,199	0.993
	Rivetment	440	198	242	2	2	238	437	0.993
	Access Road	2,210	884	1,326	11	9	1,305	2,193	0.992
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,303	762	541	0	0	541	1,300	0.998
	(Total)	26,426	13,305	13,121	543	85	12,493	25,898	0.980
2002	Breakwater	4,480	2,016	2,464	21	17	2,426	4,448	0.993
	Revetment	2,903	1,161	1,742	15	12	1,715	2,880	0.992
	Dredging	800	320	480	1	2	477	797	0.996
	Quaywall E1	8,460	3,807	4,653	40	33	4,580	8,399	0.993
	Yard	5,565	3,895	1,670	2	15	1,653	5,553	0.998
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,303	762	541	0	0	541	1,300	0.998
		(Total)	25,708	13,719	11,989	518	79	11,392	25,208
2003	Revetment	968	387	581	5	4	572	960	0.992
	Revetment	1,120	448	672	6	5	662	1,111	0.992
	Revetment for Road	630	252	378	3	3	372	625	0.992
	Dredging	8,453	3,381	5,072	8	22	5,042	8,416	0.996
	Yard	1,855	1,298	557	1	5	551	1,851	0.998
	CFS	400	360	40	1	1	38	399	0.998
	Gate	167	150	17	0	1	16	167	0.998
	Crane	2,700	2,700	0	0	0	0	2,700	1.000
	Transfer Crane	825	825	0	0	0	0	825	1.000
	Chassis	83	83	0	0	0	0	83	1.000
	Yard Tractor	142	142	0	0	0	0	142	1.000
	Tug Boat	2,000	2,000	0	0	0	0	2,000	1.000
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,303	762	541	0	0	541	1,300	0.998
	(Total)	22,843	14,546	8,297	462	41	7,794	22,411	0.981

2004	Revetment R	1,260	504	756	7	5	744	1,250	0.992
	Dredging	4,227	1,691	2,536	4	11	2,521	4,209	0.996
	Quaywall W1&W2	2,526	1,137	1,389	12	10	1,367	2,508	0.993
	CFS	400	360	40	1	1	38	399	0.998
	Gate	333	300	33	0	1	31	332	0.998
	Others	4,000	3,600	400	5	14	380	3,993	0.998
	Crane	1,800	1,800	0	0	0	0	1,800	1.000
	Transfer	825	825	0	0	0	0	825	1.000
	Chassis	167	167	0	0	0	0	167	1.000
	Tractor	283	283	0	0	0	0	283	1.000
	Others	215	215	0	0	0	0	215	1.000
	Tug Boat	2,000	2,000	0	0	0	0	2,000	1.000
	Buoy	190	190	0	0	0	0	190	1.000
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
Contingency	1,303	762	541	0	0	541	1,300	0.998	
(Total)	21,726	15,592	6,134	467	43	5,623	21,303	0.981	
2005	Quaywall W1&W2	2,526	1,137	1,389	12	10	1,367	2,508	0.993
	Access Road	4,223	2,956	1,267	2	11	1,254	4,214	0.998
	Container Crane	900	900	0	0	0	0	900	1.000
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,303	762	541	0	0	541	1,300	0.998
	(Total)	11,149	7,513	3,636	452	21	3,163	10,753	0.965
2006	Dredging	1,330	532	798	1	4	793	1,324	0.996
	Yard	8,447	5,913	2,534	4	11	2,519	8,429	0.998
	Container Crane	3,600	3,600	0	0	0	0	3,600	1.000
	Transfer Crane	1,650	1,650	0	0	0	0	1,650	1.000
	Chassis	250	250	0	0	0	0	250	1.000
	Yard Tractor	425	425	0	0	0	0	425	1.000
	Others	215	215	0	0	0	0	215	1.000
	Buoy	190	190	0	0	0	0	190	1.000
	Engineering Serv.	2,197	1,758	439	439	0	0	1,832	0.834
	Contingency	1,303	762	541	0	0	541	1,300	0.998
(Total)	19,607	15,295	4,312	444	15	3,853	19,214	0.980	
(Grand Total)	150,030	91,042	58,988	3,417	357	55,214	146,851	0.979	

Table A12.4.2 (2) Cost of the Project
(Short-term Development Plan, High Growth Case)

Unit: Thous.USS

	Year	Construction	Re-investment	Maintenance	Operation	Total
	2000	22,064	0	0	0	22,064
	2001	25,898	0	0	0	25,898
	2002	25,208	0	0	0	25,208
	2003	22,411	0	0	0	22,411
	2004	21,303	0	1,152	579	23,033
	2005	10,753	0	1,152	579	12,484
	2006	19,214	0	1,152	694	21,060
1	2007	0	0	1,627	694	2,321
2	2008	0	0	1,627	755	2,382
3	2009	0	0	4,339	755	5,094
4	2010	0	0	1,627	816	2,443
5	2011	0	1,016	1,627	816	3,459
6	2012	0	0	1,627	816	2,443
7	2013	0	0	1,627	816	2,443
8	2014	0	764	4,339	816	5,919
9	2015	0	2,200	1,627	816	4,643
10	2016	0	0	1,627	816	2,443
11	2017	0	0	1,627	816	2,443
12	2018	0	5,600	1,627	816	8,043
13	2019	0	1,016	4,339	816	6,171
14	2020	0	0	1,627	816	2,443
15	2021	0	4,500	1,627	816	6,943
16	2022	0	764	1,627	816	3,207
17	2023	0	0	1,627	816	2,443
18	2024	0	0	4,339	816	5,155
19	2025	0	0	1,627	816	2,443
20	2026	0	0	1,627	816	2,443
21	2027	0	3,216	1,627	816	5,659
22	2028	0	0	1,627	816	2,443
23	2029	0	0	4,339	816	5,155
24	2030	0	1,864	1,627	816	4,307
25	2031	0	0	1,627	816	2,443
26	2032	0	0	1,627	816	2,443
27	2033	0	4,500	1,627	816	6,943
28	2034	0	0	4,339	816	5,155
29	2035	0	1,016	1,627	816	3,459
30	2036	0	4,500	1,627	816	6,943

Unit: Thous.USS

Table A12.4.2 (3) Cost of the Project
(Short-term Development Plan, Low Growth Case)

Unit: Thous.US\$

	Year	Construction	Re-investment	Maintenance	Operation	Total
	2003	22,064	0	0	0	22,064
	2004	25,898	0	0	0	25,898
	2005	25,208	0	0	0	25,208
	2006	22,411	0	0	0	22,411
	2007	17,229	0	660	585	18,475
	2008	0	0	1,169	703	1,872
	2009	4,073	0	1,169	703	5,946
	2010	10,753	0	1,169	766	12,688
	2011	19,214	0	1,169	766	21,149
1	2012	0	0	4,339	828	5,167
2	2013	0	0	1,627	828	2,455
3	2014	0	1,016	1,627	828	3,471
4	2015	0	0	1,627	828	2,455
5	2016	0	0	1,627	828	2,455
6	2017	0	0	4,339	828	5,167
7	2018	0	2,200	1,627	828	4,655
8	2019	0	794	1,627	828	3,249
9	2020	0	0	1,627	828	2,455
10	2021	0	4,500	1,627	828	6,955
11	2022	0	1,016	4,339	828	6,183
12	2023	0	1,100	1,627	828	3,555
13	2024	0	0	1,627	828	2,455
14	2025	0	0	1,627	828	2,455
15	2026	0	4,500	1,627	828	6,955
16	2027	0	794	4,339	828	5,961
17	2028	0	0	1,627	828	2,455
18	2029	0	0	1,627	828	2,455
19	2030	0	3,216	1,627	828	5,671
20	2031	0	0	1,627	828	2,455
21	2032	0	0	4,339	828	5,167
22	2033	0	0	1,627	828	2,455
23	2034	0	0	1,627	828	2,455
24	2035	0	1,894	1,627	828	4,349
25	2036	0	4,500	1,627	828	6,955
26	2037	0	0	4,339	828	5,167
27	2038	0	1,016	1,627	828	3,471
28	2039	0	0	1,627	828	2,455
29	2040	0	0	1,627	828	2,455
30	2041	0	4,500	1,627	828	6,955

Table A 12.5.1(2) Calculation of EIRR
 (Short-term Development Palm, High Growth Case) Unit: 'Tous.US\$

	Year	Cost Total	Benefit Total	Benefit - Cost	Net Present Value (NPV)		
					Benefit	Cost	Benefit - Cost
1	2000	22,064	0	(22,064)	0	22,064	(22,064)
2	2001	25,898	0	(25,898)	0	21,690	(21,690)
3	2002	25,208	0	(25,208)	0	17,682	(17,682)
4	2003	22,411	0	(22,411)	0	13,166	(13,166)
5	2004	23,033	22,536	(497)	11,088	11,332	(245)
6	2005	12,484	25,636	13,152	10,564	5,144	5,419
7	2006	21,060	29,287	8,227	10,107	7,268	2,839
8	2007	2,321	33,130	30,809	9,576	671	8,905
9	2008	2,382	36,778	34,396	8,903	577	8,326
10	2009	5,094	40,504	35,410	8,212	1,033	7,179
11	2010	2,443	44,293	41,850	7,521	415	7,106
12	2011	3,459	44,293	40,834	6,299	492	5,807
13	2012	2,443	44,293	41,850	5,275	291	4,984
14	2013	2,443	44,293	41,850	4,418	244	4,174
15	2014	5,919	44,293	38,374	3,700	494	3,206
16	2015	4,643	44,293	39,650	3,099	325	2,774
17	2016	2,443	44,293	41,850	2,595	143	2,452
18	2017	2,443	44,293	41,850	2,174	120	2,054
19	2018	8,043	44,293	36,250	1,821	331	1,490
20	2019	6,171	44,293	38,122	1,525	212	1,312
21	2020	2,443	44,293	41,850	1,277	70	1,207
22	2021	6,943	44,293	37,350	1,069	168	902
23	2022	3,207	44,293	41,086	896	65	831
24	2023	2,443	44,293	41,850	750	41	709
25	2024	5,155	44,293	39,138	628	73	555
26	2025	2,443	44,293	41,850	526	29	497
27	2026	2,443	44,293	41,850	441	24	416
28	2027	5,659	44,293	38,634	369	47	322
29	2028	2,443	44,293	41,850	309	17	292
30	2029	5,155	44,293	39,138	259	30	229
31	2030	4,307	44,293	39,986	217	21	196
32	2031	2,443	44,293	41,850	182	10	172
33	2032	2,443	44,293	41,850	152	8	144
34	2033	6,943	44,293	37,350	127	20	107
35	2034	5,155	44,293	39,138	107	12	94
36	2035	3,459	44,293	40,834	89	7	82
37	2036	6,943	44,293	37,350	75	12	63
	Total	272,432	1,383,782	1,111,350	104,348	104,348	0

EIRR= 0.19401

Table A 12.5.1(3) Calculation of EIRR
 (Short-term Development Plan, Low Growth Case) Unit: Tous.US\$

	Year	Cost Total	Benefit Total	Benefit - Cost	Net Present Value (NPV)		
					Benefit	Cost	Benefit - Cost
1	2003	22,064	0	(22,064)	0	22,064	(22,064)
2	2004	25,898	0	(25,898)	0	21,879	(21,879)
3	2005	25,208	0	(25,208)	0	17,992	(17,992)
4	2006	22,411	0	(22,411)	0	13,514	(13,514)
5	2007	18,475	20,580	2,105	10,484	9,412	1,073
6	2008	1,872	23,063	21,191	9,926	806	9,120
7	2009	5,946	25,579	19,634	9,301	2,162	7,139
8	2010	12,688	28,046	15,358	8,615	3,898	4,718
9	2011	21,149	30,493	9,344	7,914	5,489	2,425
10	2012	5,167	32,832	27,665	7,198	1,133	6,065
11	2013	2,455	35,193	32,737	6,519	455	6,064
12	2014	3,471	37,616	34,145	5,886	543	5,343
13	2015	2,455	39,924	37,469	5,278	325	4,954
14	2016	2,455	44,226	41,771	4,940	274	4,665
15	2017	5,167	44,226	39,059	4,173	488	3,686
16	2018	4,655	44,226	39,571	3,526	371	3,155
17	2019	3,249	44,226	40,977	2,979	219	2,760
18	2020	2,455	44,226	41,771	2,516	140	2,377
19	2021	6,955	44,226	37,271	2,126	334	1,792
20	2022	6,183	44,226	38,043	1,796	251	1,545
21	2023	3,555	44,226	40,671	1,517	122	1,395
22	2024	2,455	44,226	41,771	1,282	71	1,211
23	2025	2,455	44,226	41,771	1,083	60	1,023
24	2026	6,955	44,226	37,271	915	144	771
25	2027	5,961	44,226	38,265	773	104	669
26	2028	2,455	44,226	41,771	653	36	617
27	2029	2,455	44,226	41,771	552	31	521
28	2030	5,671	44,226	38,555	466	60	406
29	2031	2,455	44,226	41,771	394	22	372
30	2032	5,167	44,226	39,059	333	39	294
31	2033	2,455	44,226	41,771	281	16	265
32	2034	2,455	44,226	41,771	237	13	224
33	2035	4,349	44,226	39,877	201	20	181
34	2036	6,955	44,226	37,271	169	27	143
35	2037	5,167	44,226	39,059	143	17	126
36	2038	3,471	44,226	40,755	121	9	111
37	2039	2,455	44,226	41,771	102	6	97
38	2040	2,455	44,226	41,771	86	5	82
39	2041	6,955	44,226	37,271	73	11	61
	Total	276,692	1,423,212	1,146,519	102,559	102,559	(0)

EIRR= 0.18367

Table A13.1.1 Port Dues and Charges Tariff

		Port User Charges (Sea Port)							
International or Domestic	Domestic	(Unit: VND)				Export/Import			
Effective	From May 1, 1998					From January 1, 1998			
Working Time	7:00 - 17:00					7:00 - 17:00			
Overtime Work	5:00 - 7:00 = *1.20 17:00 - 22:00 = *1.20 22:00 - 05:00 = *1.40 Holidays & Sundays (Including night) = *1.50					5:00 - 7:00 = *1.20 17:00 - 22:00 = *1.20 22:00 - 05:00 = *1.40 Holidays & Sundays (Including night) = *1.50			
1. Berthage and Wharfage dues									
(1) On Vessels					0.0035/GRT/hour				
1) Berth	240/GRT/day				0.0012/GRT/hour				
2) Buoy	120/GRT/day								
3) Minimum	100,000/Vessel day (For Sea Going Vessel)								
(2) On Cargoes	At Quay 1,000/ton At Buoy 500/ton				At Quay 0.30/ton At Buoy 0.15/ton				
2. Cargo Handling services	(unit: VND/ton)				(unit: USD/ton)				
(1) Handling at Berth	Ship ~ Warehouse, Storage area		Ship ~ Truck, Barge		Ship ~ Truck Barge		Ship ~ Warehouse Storage area		
	Cargo Group	Port's Crane	Ship Crane	Port's Crane	Ship Crane	Cargo Group	Ship Crane	Port's Crane	
	1	12,070	9,260	9,200	6,070	1	2.00	2.90	
	2	16,270	11,470	12,630	7,830	2	2	3.66	
	3	22,840	15,080	16,510	11,710	3	3.56	4.74	
	4	24,900	16,260	19,660	11,980	4	3.86	5.14	
	5	27,720	20,040	23,300	15,620	5	4.06	5.41	
	6	28,270	20,950	23,640	15,960	6	4.36	5.81	
	7	32,540	24,870	26,970	19,110	7	4.60	6.13	
	8	47,320	37,720	34,500	22,980	8	4.85	6.46	
						9	40/unit 55/unit	50/unit 70/unit 25/unit	
(2) Handling at Buoy	Cargo Group	Loading/Unloading at Buoy			Cargo Group	Loading/Unloading at Buoy			
	1	7,110			1	2.30			
	2	8,950			2	3.08			
	3	12,980			3	4.13			
	4	13,260			4	4.52			
	5	16,240			5	4.78			
	6	17,900			6	5.17			
	7	19,880			7	5.49			
	8	24,700			8	5.81			
					9	45/unit 55/unit			
(3) Warehouse Storage Area ~ Truck, Trailer	Cargo Group	Warehouse, Storage ~ Truck			Cargo Group	Warehouse, Storage ~ Truck			
	1	4,070			1	0.73			
	2	4,590			2	0.90			
	3	5,280			3	1.27			
	4	6,200			4	1.32			
	5	6,340			5	1.47			
	6	6,910			6	1.60			
	7	8,630			7	1.69			
	8	17,620			8	1.79			
					9	30/unit 35/unit			

(4) For Container	20 feet: Empty 42,000/unit (Cargo Group 4) Min. 100,000/unit (Cargo Group 4)				(unit: UD\$/UNIT)				
	40 feet: Empty 80,000/unit (Cargo Group 4) Min. 170,000/unit (Cargo Group 8)				ship ~ truck	ship ~ yard, warehouse	yard, warehous ~ truck		
	20 feet								
	full				26	50	20		
	empty				16	30	12		
	40 feet								
full				40	76	31			
empty				23	44	18			
3. Storing Charges	1) 1 - 30 days								
	General		800/v/d		in warehouse		0.2/ton/d		
	foodstuffs, agricultural prod.		400/v/d		in open storage		0.1/ton/d		
	Fertilizer, chemical, Cement		600/v/d		assembled facilities		4.0/pc/d		
	in storage area		500/v/d		container (unit/d)		full	empty	
					20'	2.0	1.0		
				40'	3.0	1.5			
				Reef 20'	22day	1.1/h			
				Reef 40'	40day	1.6/h			
4. Other Fees (1) Tug Assistant Service Fees	- Tug assistance fees				- Tug assistance fees				
	<500HP		2,500HP/h		<500HP		0.34/HP/hour		
	500HP < 1,000		2,000HP/h		500 < - 1,000HP		(170+0.26HP)/h		
	1,000HP <		1,500HP/h		1,000HP < 1,500		(300+0.15HP)/h		
				1,500HP <		(375+0.05HP)/h			
(2) Mooring Unmooring			At Berth				At Buoy	At Berth	
			mooring	umo.	mooring	umo.	< 1,000 GRT	50/time	17/time
	< 2,000		60,000	50,000	110,000	70,000	1,001 < 4,000	80	33
	2,000 < 4,000		70,000	60,000	140,000	100,000	4,001 < 10,000	116	50
	4,000 < 6,000		85,000	75,000	160,000	130,000	10,001 < 15,000	132	66
	6,000 <		150,000	140,000	170,000	165,000	15,000 GRT <	149	83
(3) Tallying	Bulk cargo : 500/ton				General and Bulk Cargo : 0.35/ton				
	General cargo : 1,500/ton				Container : 1/unit				
	Cars and Container : 10,000/unit								
(4) Others			At Quay	At Buoy			At Quay	At Buoy	
	1) Dumping service		200,000/time		1) Dumping service		20/vessel	50/vessel	
	2) Supplying water		15,000/m ³	22,000/m ³	2) Supplying water		2.5/m ³	3.5/m ³	

		Port Entry Dues (SEAPORT)	
INTERNATIONAL or DOMESTIC		DOMESTIC (UNIT: VND)	EXPORT/IMPORT (UNIT: USD)
Effective		from January 1, 1998	from January 1, 1998
(1) Tonnage Dues	1) Entrance	200/GRT	0.10/GRT
	2) Exit	200/GRT	0.10/GRT
(2) Navigational Maintenance Dues		1) Entrance - < 2,000GRT: 200/GRT - 2,000GRT < : 400/GRT 2) Exit - < 2,000GRT: 200GRT - 2,000 GRT <: 400GRT	- Conventional Vessel Entrance 0.209/GRT Leaving 0.209/GRT
(3) Clearance Fees	Entrance & Exit	< 200GRT : 30,000	< 600 GRT = 20/trip
		200 - 1,000GRT : 50,000	600 < 1,000 GRT = 50/trip
		1,000 - 5,000 : 100,000	1,000 GRT = 100/trip
		5,000GRT : 200,000	
(4) Pilotage Dues	Entrance	15/GRT/sea mile	0.0032/GRT/sea mile
	Exit	15/GRT/sea mile	0.0032/GRT/sea mile
	Minimum	Ent, Exit : 150,000 Intra - port: 100,000	100/vessel

Source: Danang Port

Table A14.2.2 Total Revenue for Short-term Development Plan -Scenario 2 (Low Growth Case)

Type of Cargo	2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Cargo V. Rev.	Unit Cost																		
Const.Mate	46,173	2.95	50,790	1.50	55,408	1.63	60,025	1.77	64,643	1.91	69,260	2.04	73,878	2.18	78,495	2.32	83,113	2.45	87,730	2.59
Export Loading	46,173	0.99	50,790	46	55,408	50	60,025	60	64,643	64	69,260	69	73,878	73	78,495	78	83,113	83	87,730	87
Import Loading	81,164	4.60	85,309	3.93	89,455	4.12	93,600	4.31	97,745	4.43	101,890	4.55	106,035	4.67	110,180	4.80	114,470	4.92	118,760	5.04
Cement	189,382	1.25	199,055	2.50	208,727	2.62	218,400	2.74	228,073	2.82	237,746	2.89	247,419	2.97	257,092	3.05	266,765	3.13	276,438	3.20
Export Loading	189,382	1.25	199,055	2.50	208,727	2.62	218,400	2.74	228,073	2.82	237,746	2.89	247,419	2.97	257,092	3.05	266,765	3.13	276,438	3.20
Import Loading	676,364	2.95	710,909	1.71	745,455	1.71	780,000	1.71	814,545	1.71	849,090	1.71	883,635	1.71	918,180	1.71	952,725	1.71	987,270	1.71
Chalker	35,000	4.88	40,000	5.00	45,000	5.12	50,000	5.25	55,000	5.37	60,000	5.50	65,000	5.62	70,000	5.75	75,000	5.87	80,000	6.00
Import	35,000	4.88	40,000	5.00	45,000	5.12	50,000	5.25	55,000	5.37	60,000	5.50	65,000	5.62	70,000	5.75	75,000	5.87	80,000	6.00
Steel&Scrap	40,000	1.25	45,000	1.25	50,000	1.25	55,000	1.25	60,000	1.25	65,000	1.25	70,000	1.25	75,000	1.25	80,000	1.25	85,000	1.25
Export	40,000	1.25	45,000	1.25	50,000	1.25	55,000	1.25	60,000	1.25	65,000	1.25	70,000	1.25	75,000	1.25	80,000	1.25	85,000	1.25
General	11,936	5.10	13,029	6.66	14,123	7.2	15,217	7.8	16,311	8.4	17,405	9.0	18,499	9.6	19,593	10.2	20,687	10.8	21,781	11.4
Export	11,936	5.10	13,029	6.66	14,123	7.2	15,217	7.8	16,311	8.4	17,405	9.0	18,499	9.6	19,593	10.2	20,687	10.8	21,781	11.4
Import	15,959	2.76	17,400	1.71	18,850	1.51	20,300	1.33	21,750	1.16	23,200	1.00	24,650	0.84	26,100	0.69	27,550	0.54	29,000	0.39
Unloading	14,500	2.70	15,950	1.50	17,400	1.25	18,850	1.00	20,300	0.75	21,750	0.50	23,200	0.25	24,650	0.00	26,100	0.25	27,550	0.50
Export	3,229	40.00	3,552	40.00	3,875	40.00	4,198	40.00	4,521	40.00	4,844	40.00	5,167	40.00	5,490	40.00	5,813	40.00	6,136	40.00
Car	7,575	7.60	8,333	6.33	9,090	6.90	9,848	7.50	10,606	8.10	11,364	8.70	12,122	9.30	12,880	9.90	13,638	10.50	14,396	11.10
Export Loading	1,464	7.60	1,611	1.61	1,757	1.76	1,904	1.91	2,050	2.06	2,197	2.21	2,344	2.39	2,490	2.44	2,637	2.49	2,784	2.54
Ro-Ro	5,816	10.04	6,398	6.4	6,980	7.0	7,561	7.6	8,141	8.2	8,702	8.8	9,263	9.4	9,824	10.0	10,385	10.6	10,946	11.2
Export Loading	7,791	60.68	8,473	60.68	9,155	60.68	9,837	60.68	10,519	60.68	11,201	60.68	11,883	60.68	12,565	60.68	13,247	60.68	13,929	60.68
Container (F) Export	25,103	69.92	27,550	69.92	30,000	69.92	32,450	69.92	34,900	69.92	37,350	69.92	39,800	69.92	42,250	69.92	44,700	69.92	47,150	69.92
Import	17,312	27.50	19,364	27.50	21,416	27.50	23,468	27.50	25,520	27.50	27,572	27.50	29,624	27.50	31,676	27.50	33,728	27.50	35,780	27.50
Container (E) Import	10,561	0.08	11,660	0.08	12,759	0.08	13,858	0.08	14,957	0.08	16,056	0.08	17,155	0.08	18,254	0.08	19,353	0.08	20,452	0.08
Oil																				
Total Revenue (000US\$)			4,703		5,257		5,692		6,136		6,580		7,024		7,468		7,912		8,356	

Type of Vessels	2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Av. GRT	Unit Cost																		
Const.Mate	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644
Export	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644
Domestic	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755
Export	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755
Domestic	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676
Export	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676	3,000	1,676
Domestic	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644
Export	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644	10,000	9,644
Domestic	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755
Export	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755	3,000	755
Domestic	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082
Export	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082	40,000	35,082
Domestic	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951
Export	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951	15,000	2,951
Domestic	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390
Export	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390	7,000	1,390
Domestic	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498
Export	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498
Domestic	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498
Export	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498	30,000	25,498
Domestic	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070
Export	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070	5,000	1,070
Domestic																				
Total Revenue (000US\$)			6,931		7,779		8,642		9,326		10,008		10,695		11,379		12,066		12,753	

Table A14.2.3 Project Costs of the New Port

	Initial Investment Cost	Physical Contingency	Maintenance Cost	Depreciation Period	Depreciation Cost/Year
1. Protective Facility					
North Breakwater	8,960	717	90	50	179
Seawall	22,600	1,808	226	50	452
Revetment R2	3,870	310	39	50	77
Revetment R3	1,120	90	11	50	22
Revetment R4	1,890	151	19	50	38
Revetment for Road	2,790	223	28	50	56
Training Jetty	940	75	9	50	19
2. Dredging					
Channel & Basin	14,810	1,185			
3. Bridge	1,880	150	19	20	94
4. Berthing Facility					
Quaywall E1	12,690	1,015	127	50	254
Revetment R1	660	53	7	50	13
Quaywall W1 & W2	5,050	404	51	50	101
5. Yard					
East wharf	7,420	594	74	30	247
West wharf	12,670	1,014	127	30	422
6. Access Road	4,420	354	44	20	221
7. Building & Utilities					
CFS	800	64	8	25	32
Gate	500	40	5	50	10
Building and others	4,000	320	40	50	80
8. Cargo Handling Equipment					
Container Crane	9,000	270	360	15	600
Transfer Crane	3,300	99	132	12	275
Chassis	500	15	20	8	63
Yard Tractors	850	26	34	8	106
Others	430	13	17	8	54
9. Navigation Aids		0			
Tug Boat	4,000	120	160	15	267
Buoy & Beacon	380	11	15	10	38
Physical Contingency	9,120				
Engineering Service	15,380				
Tax	7,530				
Resettle. and Compe. cost	100				
Total	157,660	9,120	1,662		3,720

Table A14.3.1 Result of FIRR Calculation - Scenario 1 (High Growth Case)

Original Case	5.7%	
Sensitivity Analysis 1	4.5%	Revenue 10% Down
Sensitivity Analysis 2	4.6%	Cost 10% Up
Sensitivity Analysis 3	3.3%	Revenue 10% Down, Cost 10% Up

(unit : 1,000US\$)

Year	Revenue (1)	Cost (2)			Difference (1)-(2)	Net Present Value		
		Investment	Expenses	Total		Revenue	Cost	Difference
1999	0	0	0	0	0	0	0	0
2000	0	23,460	0	23,460	-23,460	0	22,198	-22,198
2001	0	28,429	0	28,429	-28,429	0	25,452	-25,452
2002	0	27,610	0	27,610	-27,610	0	23,388	-23,388
2003	0	24,058	0	24,058	-24,058	0	19,282	-19,282
2004	8,164	22,796	2,377	25,173	-17,009	6,191	19,091	-12,899
2005	9,514	10,968	2,377	13,345	-3,831	6,827	9,576	-2,749
2006	10,900	20,339	2,612	22,951	-12,051	7,401	15,583	-8,182
2007	13,143	0	3,078	3,078	10,065	8,443	1,977	6,466
2008	14,658	0	3,204	3,204	11,454	8,910	1,948	6,962
2009	16,256	0	5,927	5,927	10,329	9,349	3,409	5,941
2010	17,914	0	3,328	3,328	14,586	9,748	1,811	7,937
2011	17,914	239	3,328	3,567	14,347	9,224	1,836	7,388
2012	17,914	705	3,328	4,033	13,881	8,728	1,965	6,763
2013	17,914	0	3,328	3,328	14,586	8,258	1,534	6,724
2014	17,914	1,145	6,051	7,196	10,718	7,813	3,139	4,675
2015	17,914	875	3,328	4,203	13,711	7,393	1,734	5,659
2016	17,914	1,076	3,328	4,404	13,510	6,995	1,720	5,276
2017	17,914	0	3,328	3,328	14,586	6,619	1,230	5,389
2018	17,914	6,731	3,328	10,059	7,855	6,263	3,517	2,746
2019	17,914	4,267	6,051	10,318	7,596	5,926	3,413	2,513
2020	17,914	4,500	3,328	7,828	10,086	5,607	2,450	3,157
2021	17,914	7,653	3,328	10,981	6,933	5,305	3,252	2,053
2022	17,914	943	3,328	4,271	13,643	5,019	1,197	3,823
2023	17,914	0	3,328	3,328	14,586	4,749	882	3,867
2024	17,914	201	6,051	6,252	11,662	4,494	1,568	2,925
2025	17,914	0	3,328	3,328	14,586	4,252	790	3,462
2026	17,914	201	3,328	3,529	14,385	4,023	793	3,231
2027	17,914	1,113	3,328	4,441	13,473	3,807	944	2,863
2028	17,914	2,003	3,328	5,331	12,583	3,602	1,072	2,530
2029	17,914	424	6,051	6,475	11,439	3,408	1,232	2,176
2030	17,914	2,692	3,328	6,020	11,894	3,225	1,084	2,141
2031	17,914	0	3,328	3,328	14,586	3,051	567	2,484
2032	17,914	5,899	3,328	9,227	8,687	2,887	1,487	1,400
2033	17,914	6,948	3,328	10,276	7,638	2,732	1,567	1,165
2034	17,914	4,229	6,051	10,280	7,634	2,585	1,483	1,101
2035	17,914	5,669	3,328	8,997	8,917	2,445	1,228	1,217
2036	17,914	13,676	3,328	17,004	910	2,314	2,196	118
Total	556,313	228,849	123,046	351,895	204,418	187,591	187,591	0

Table A14.3.2 Result of FIRR Calculation - Scenario 2 (Low Growth Case)

Original Case	5.1%	
Sensitivity Analysis 1	4.0%	Revenue 10% Down
Sensitivity Analysis 2	4.1%	Cost 10% Up
Sensitivity Analysis 3	3.0%	Revenue 10% Down, Cost 10% Up

(unit : 1,000US\$)

Year	Revenue (1)	Cost (2)			Difference (1)-(2)	Net Present Value		
		Investment	Expenses	Total		Revenue	Cost	Difference
2002	0	0	0	0	0	0	0	0
2003	0	23,460	0	23,460	-23,460	0	22,313	-22,313
2004	0	28,429	0	28,429	-28,429	0	25,716	-25,716
2005	0	27,610	0	27,610	-27,610	0	23,753	-23,753
2006	0	24,058	0	24,058	-24,058	0	19,685	-19,685
2007	6,931	19,712	1,869	21,581	-14,650	5,394	16,795	-11,401
2008	7,779	0	2,629	2,629	5,150	5,758	1,946	3,812
2009	8,642	3,084	2,629	5,713	2,929	6,083	4,022	2,062
2010	9,326	10,968	2,757	13,725	-4,399	6,244	9,190	-2,945
2011	10,908	20,339	2,757	23,096	-12,188	6,946	14,708	-7,761
2012	12,095	0	6,076	6,076	6,019	7,325	3,680	3,645
2013	13,370	0	3,353	3,353	10,017	7,702	1,931	5,770
2014	14,646	239	3,353	3,592	11,055	8,024	1,968	6,056
2015	16,214	705	3,353	4,058	12,156	8,448	2,114	6,334
2016	17,857	0	3,353	3,353	14,504	8,849	1,662	7,188
2017	17,857	201	6,076	6,277	11,579	8,417	2,959	5,458
2018	17,857	875	3,353	4,228	13,629	8,005	1,895	6,110
2019	17,857	1,818	3,353	5,171	12,686	7,613	2,205	5,409
2020	17,857	0	3,353	3,353	14,504	7,241	1,360	5,881
2021	17,857	5,183	3,353	8,536	9,320	6,887	3,292	3,595
2022	17,857	4,267	6,076	10,343	7,514	6,550	3,794	2,756
2023	17,857	5,295	3,353	8,648	9,209	6,230	3,017	3,213
2024	17,857	3,837	3,353	7,190	10,666	5,925	2,386	3,539
2025	17,857	954	3,353	4,307	13,550	5,635	1,359	4,276
2026	17,857	3,816	3,353	7,169	10,688	5,360	2,152	3,208
2027	17,857	1,145	6,076	7,221	10,636	5,098	2,061	3,036
2028	17,857	0	3,353	3,353	14,504	4,848	910	3,938
2029	17,857	0	3,353	3,353	14,504	4,611	866	3,745
2030	17,857	1,113	3,353	4,466	13,391	4,386	1,097	3,289
2031	17,857	2,205	3,353	5,558	12,299	4,171	1,298	2,873
2032	17,857	424	6,076	6,500	11,357	3,967	1,444	2,523
2033	17,857	0	3,353	3,353	14,504	3,773	708	3,065
2034	17,857	0	3,353	3,353	14,504	3,589	674	2,915
2035	17,857	8,591	3,353	11,944	5,912	3,413	2,283	1,130
2036	17,857	6,948	3,353	10,301	7,555	3,246	1,873	1,373
2037	17,857	4,229	6,076	10,305	7,551	3,087	1,782	1,306
2038	17,857	239	3,353	3,592	14,265	2,936	591	2,346
2039	17,857	705	3,353	4,058	13,799	2,793	635	2,158
2040	17,857	5,430	3,353	8,783	9,073	2,656	1,307	1,350
2041	17,857	12,971	3,353	16,324	1,532	2,526	2,309	217
Total	564,181	228,849	129,569	358,418	205,764	193,739	193,739	-0

Table A14.3.3 Financial Statements - Scenario 1 (High Growth Case)

PROFIT AND LOSS STATEMENT (UNIT: '000 US\$)																			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Operating Revenues	0	0	0	0	0	8,164	9,514	10,900	13,143	14,658	16,256	17,914	17,914	17,914	17,914	17,914	17,914	17,914	17,914
Operating Expenses	0	0	19	855	1,288	4,011	5,007	5,343	6,798	6,924	6,924	7,048	7,048	7,048	7,048	7,048	7,048	7,048	7,048
Personnel	0	0	0	0	0	1,120	1,120	1,343	1,343	1,462	1,462	1,579	1,579	1,579	1,579	1,579	1,579	1,579	1,579
Administrations	0	0	0	0	0	61	61	73	73	80	80	86	86	86	86	86	86	86	86
Maintenance & repairs	0	0	0	0	0	1,196	1,196	1,196	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662
Depreciation costs	0	0	19	855	1,288	1,634	2,630	2,731	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Net Operating Income	0	0	-19	-855	-1,288	4,153	4,508	5,557	6,345	7,734	9,332	10,866	10,866	10,866	10,866	10,866	10,866	10,866	10,866
Non-operating Revenues	0	0	0	0	0	0	0	94	328	610	997	1,508	2,146	2,723	3,202	3,657	4,021	4,372	4,716
Interest on deposit	0	0	0	0	0	0	0	94	328	610	997	1,508	2,146	2,723	3,202	3,657	4,021	4,372	4,716
Non-operating Expenses	0	0	422	970	1,601	2,805	3,445	3,710	4,267	4,126	3,984	3,842	3,700	3,537	3,348	3,136	2,909	2,668	2,420
Interest on long-term loans	0	0	422	934	1,483	2,546	3,356	3,710	4,267	4,126	3,984	3,842	3,700	3,537	3,348	3,136	2,909	2,668	2,420
Interest on short-term loans	0	0	0	36	118	259	89	0	0	0	0	0	0	0	0	0	0	0	0
Net Income before Tax	0	0	-441	-1,825	-2,889	1,348	1,062	1,941	2,405	4,218	6,346	8,532	9,312	10,052	10,720	11,387	11,978	12,570	13,162
Turnover Tax	0	0	0	0	0	327	381	436	526	586	650	717	717	717	717	717	717	717	717
Land-using Tax	0	0	0	0	0	25	25	25	38	38	38	38	38	38	38	38	38	38	38
Income Tax	0	0	0	0	0	0	0	0	460	898	1,414	1,944	2,080	2,148	2,491	2,372	2,587	2,685	3,102
Net Income after Tax	0	0	-441	-1,825	-2,889	997	657	1,480	1,381	2,695	4,243	5,833	6,478	7,149	7,474	8,261	8,637	9,131	9,306
Retained Earnings	0	0	-441	-2,266	-5,156	-4,159	-3,502	-2,022	-641	2,054	6,297	12,130	18,608	25,758	33,232	41,493	50,129	59,260	68,566

CASH FLOW STATEMENT (Unit: '000US\$)																			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cash Beginning	0	0	0	-422	-1,392	-3,042	-1,047	1,181	4,100	7,625	12,463	18,850	26,826	34,036	40,030	45,709	50,267	54,649	58,950
Cash Inflow (excluding G. Funds)	0	23,460	28,429	27,610	24,058	28,583	18,106	28,721	10,393	12,064	14,049	16,094	16,732	17,309	17,788	18,243	18,607	18,958	19,302
Net operating income	0	0	-19	-855	-1,288	4,153	4,508	5,557	6,345	7,734	9,332	10,866	10,866	10,866	10,866	10,866	10,866	10,866	10,866
Depreciation costs	0	0	19	855	1,288	1,634	2,630	2,731	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Long-term loans	0	23,460	28,429	27,610	24,058	22,796	10,968	20,339	0	0	0	0	0	0	0	0	0	0	0
Interest on deposits	0	0	0	0	0	0	94	328	610	997	1,508	2,146	2,723	3,202	3,657	4,021	4,372	4,716	
Cash Outflow (excluding G. Funds)	0	23,460	28,851	28,579	25,707	26,588	15,878	25,802	6,868	7,225	7,663	8,117	9,522	11,316	12,110	13,685	14,226	14,657	14,553
Investment	0	23,460	28,429	27,610	24,058	22,796	10,968	20,339	0	0	0	0	239	705	0	1,145	875	1,076	0
Repayment for long-term loans	0	0	0	0	48	636	1,059	1,292	1,577	1,577	1,577	1,577	2,750	4,171	5,515	6,278	7,100	7,474	8,277
Interest on long-term loans	0	0	422	934	1,483	2,546	3,356	3,710	4,267	4,126	3,984	3,842	3,700	3,537	3,348	3,136	2,909	2,668	2,420
Turnover Tax	0	0	0	0	0	327	381	436	526	586	650	717	717	717	717	717	717	717	717
Land-using Tax	0	0	0	0	0	25	25	25	38	38	38	38	38	38	38	38	38	38	38
Income Tax	0	0	0	0	0	0	0	0	460	898	1,414	1,944	2,080	2,148	2,491	2,372	2,587	2,685	3,102
Interest on short-term loans	0	0	0	36	118	259	89	0	0	0	0	0	0	0	0	0	0	0	0
Cash Inflow - Cash Outflow	0	0	-422	-970	-1,650	1,995	2,228	2,919	3,525	4,839	6,386	7,977	7,210	5,993	5,679	4,558	4,382	4,301	4,749
Cash Ending	0	0	-422	-1,392	-3,042	-1,047	1,181	4,100	7,625	12,463	18,850	26,826	34,036	40,030	45,709	50,267	54,649	58,950	63,699
Cash excess	0	0	0	0	0	0	1,181	4,100	7,625	12,463	18,850	26,826	34,036	40,030	45,709	50,267	54,649	58,950	63,699
Cash shortage	0	0	-422	-1,392	-3,042	-1,047	0	0	0	0	0	0	0	0	0	0	0	0	0

BALANCE SHEET (UNIT: '000US\$)																			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
(Assets)																			
Current Assets	0	0	0	0	0	0	1,181	4,100	7,625	12,463	18,850	26,826	34,036	40,030	45,709	50,267	54,649	58,950	63,699
Cash & Deposit	0	0	0	0	0	0	1,181	4,100	7,625	12,463	18,850	26,826	34,036	40,030	45,709	50,267	54,649	58,950	63,699
Net Fixed Assets	0	23,460	51,870	78,625	101,394	122,556	130,894	148,502	144,782	141,062	137,342	133,622	130,141	127,125	123,405	120,830	117,985	115,341	111,621
Construction costs	0	23,460	51,889	79,499	103,556	126,352	137,320	157,659	157,659	157,659	157,659	157,659	157,898	158,602	158,602	159,747	160,622	161,698	161,698
Accumulated depreciation	0	0	19	874	2,162	3,796	6,426	9,157	12,877	16,597	20,317	24,037	27,757	31,477	35,197	38,917	42,637	46,357	50,077
Total Assets	0	23,460	51,870	78,625	101,394	122,556	132,075	152,602	152,407	153,525	156,192	160,449	164,177	167,155	169,114	171,097	172,633	174,290	175,319
(Liabilities and capital)																			
Liabilities	0	23,460	52,311	80,891	106,550	126,715	135,577	154,624	153,048	151,471	149,895	148,318	145,568	141,397	135,882	129,604	122,504	115,030	106,753
Current liabilities (cross subsidy)	0	0	422	1,392	3,042	1,047	0	0	0	0	0	0	0	0	0	0	0	0	0
Fixed liabilities (Long-term loan)	0	23,460	51,889	79,499	103,508	125,668	135,577	154,624	153,048	151,471	149,895	148,318	145,568	141,397	135,882	129,604	122,504	115,030	106,753
Capital	0	0	-441	-2,266	-5,156	-4,159	-3,502	-2,022	-641	2,054	6,297	12,130	18,608	25,758	33,232	41,493	50,129	59,260	68,566
Investment in kind by gov. funds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retained Earnings	0	0	-441	-2,266	-5,156	-4,159	-3,502	-2,022	-641	2,054	6,297	12,130	18,608	25,758	33,232	41,493	50,129	59,260	68,566
Total Liabilities and capital	0	23,460	51,870	78,625	101,394	122,556	132,075	152,602	152,407	153,525	156,192	160,449	164,177	167,155	169,114	171,097	172,633	174,290	175,319

FINANCIAL INDICATORS																			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Working Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	29.1%	25.0%	24.0%	23.4%	21.9%	19.7%	18.6%	18.6%	18.6%	18.6%	18.6%	18.6%	18.6%	18.6%
Operating Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	49.1%	52.6%	49.0%	51.7%	47.2%	42.6%	39.3%	39.3%	39.3%	39.3%	39.3%	39.3%	39.3%	39.3%
Rate of Return on Net Fixed Assets	0.0%	0.0%	0.0%	-1.1%	-1.3%	3.4%	3.4%	3.7%	4.4%	5.5%	6.8%	8.1%	8.3%	8.5%	8.8%	9.0%	9.2%	9.4%	9.7%
Debt Service Coverage Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	181.9%	161.7%	165.7%	172.2%	200.9%	234.7%	269.2%	226.2%	189.2%	164.6%	155.0%	145.7%	143.8%	

Table A14.3.4 Financial Statements - Scenario 2 (Low Growth Case)

PROFIT AND LOSS STATEMENT (UNIT: '000 US\$)																				
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Operating Revenues	0	0	0	0	0	6,931	7,779	8,642	9,326	10,908	12,095	13,370	14,646	16,214	17,857	17,857	17,857	17,857	17,857	17,857
Operating Expenses	0	0	19	855	1,288	3,503	5,257	5,257	5,853	5,954	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073
Personnel	0	0	0	0	0	1,132	1,360	1,360	1,482	1,482	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603
Administrations	0	0	0	0	0	63	75	75	82	82	89	89	89	89	89	89	89	89	89	89
Maintenance & repairs	0	0	0	0	0	674	1,194	1,194	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662
Depreciation costs	0	0	19	855	1,288	1,634	2,628	2,628	2,628	2,729	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Net Operating Income	0	0	-19	-855	-1,288	3,429	2,521	3,384	3,473	4,953	5,021	6,297	7,573	9,140	10,783	10,783	10,783	10,783	10,783	10,783
Non-operating Revenues	0	0	0	0	0	0	0	0	0	115	316	532	842	1,145	1,424	1,762	2,060	2,291	2,495	2,824
Interest on deposit	0	0	0	0	0	0	0	0	0	115	316	532	842	1,145	1,424	1,762	2,060	2,291	2,495	2,824
Non-operating Expenses	0	0	422	970	1,617	2,821	3,403	3,278	3,174	3,525	4,082	3,940	3,798	3,635	3,447	3,234	3,008	2,769	2,530	2,288
Interest on long-term loans	0	0	422	934	1,498	2,560	3,252	3,160	3,171	3,525	4,082	3,940	3,798	3,635	3,447	3,234	3,008	2,769	2,530	2,288
Interest on short-term loans	0	0	0	36	118	261	151	118	3	0	0	0	0	0	0	0	0	0	0	0
Net Income before Tax	0	0	-441	-1,825	-2,905	607	-882	106	299	1,543	1,255	2,888	4,616	6,650	8,761	9,311	9,835	10,306	10,748	11,319
Turnover Tax	0	0	0	0	0	277	311	346	373	436	484	535	586	649	714	714	714	714	714	714
Land-using Tax	0	0	0	0	0	25	25	25	25	25	38	38	38	38	38	38	38	38	38	38
Income Tax	0	0	0	0	0	0	0	0	0	183	579	938	1,315	2,002	2,089	2,052	1,934	2,499	1,346	
Net Income after Tax	0	0	-441	-1,825	-2,905	305	-1,218	-265	-99	1,082	550	1,736	3,054	4,649	6,006	6,469	7,031	7,620	7,497	9,221
Retained Earnings	0	0	-441	-2,266	-5,171	-4,866	-6,083	-6,348	-6,447	-5,366	-4,816	-3,079	-25	4,623	10,630	17,099	24,129	31,749	39,246	48,467

CASH FLOW STATEMENT (Unit: '000US\$)																				
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Cash Beginning		0	0	-422	-1,392	-3,070	-1,781	-1,386	-38	1,431	3,950	6,644	10,524	14,309	17,802	22,023	25,744	28,642	31,185	35,302
Cash Inflow (excluding G. Funds)	0	23,460	28,429	27,610	24,058	24,775	5,149	9,096	17,069	28,136	9,057	10,548	12,135	14,005	15,927	16,265	16,563	16,794	16,998	17,327
Net operating income	0	0	-19	-855	-1,288	3,429	2,521	3,384	3,473	4,953	5,021	6,297	7,573	9,140	10,783	10,783	10,783	10,783	10,783	10,783
Depreciation costs	0	0	19	855	1,288	1,634	2,628	2,628	2,628	2,729	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Long-term loans	0	23,460	28,429	27,610	24,058	19,712	0	3,084	10,968	20,339	0	0	0	0	0	0	0	0	0	0
Interest on deposits	0	0	0	0	0	0	0	0	0	115	316	532	842	1,145	1,424	1,762	2,060	2,291	2,495	2,824
Cash Outflow (excluding G. Funds)	0	23,460	28,851	28,579	25,736	23,485	4,755	7,748	15,599	25,617	6,364	6,668	8,349	10,512	11,706	12,544	13,665	14,251	12,881	17,023
Investment	0	23,460	28,429	27,610	24,058	19,712	0	3,084	10,968	20,339	0	0	239	705	0	201	875	1,818	0	5,183
Repayment for long-term loans	0	0	0	0	62	650	1,016	1,016	1,059	1,292	1,577	1,577	2,750	4,171	5,505	6,267	6,978	6,978	7,100	7,453
Interest on long-term loans	0	0	422	934	1,498	2,560	3,252	3,160	3,171	3,525	4,082	3,940	3,798	3,635	3,447	3,234	3,008	2,769	2,530	2,288
Turnover Tax	0	0	0	0	0	277	311	346	373	436	484	535	586	649	714	714	714	714	714	714
Land-using Tax	0	0	0	0	0	25	25	25	25	25	38	38	38	38	38	38	38	38	38	38
Income Tax	0	0	0	0	0	0	0	0	0	183	579	938	1,315	2,002	2,089	2,052	1,934	2,499	1,346	
Interest on short-term loans	0	0	0	36	118	261	151	118	3	0	0	0	0	0	0	0	0	0	0	0
Cash Inflow - Cash Outflow	0	0	-422	-969	-1,678	1,289	395	1,348	1,470	2,519	2,694	3,880	3,786	3,493	4,221	3,721	2,898	2,543	4,117	305
Cash Ending	0	0	-422	-1,392	-3,070	-1,781	-1,386	-38	1,431	3,950	6,644	10,524	14,309	17,802	22,023	25,744	28,642	31,185	35,302	35,607
Cash excess	0	0	0	0	0	0	0	0	1,431	3,950	6,644	10,524	14,309	17,802	22,023	25,744	28,642	31,185	35,302	35,607
Cash shortage	0	0	-422	-1,392	-3,070	-1,781	-1,386	-38	0	0	0	0	0	0	0	0	0	0	0	0

BALANCE SHEET (UNIT: '000US\$)																				
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
(Assets)																				
Current Assets	0	0	0	0	0	0	0	0	1,431	3,950	6,644	10,524	14,309	17,802	22,023	25,744	28,642	31,185	35,302	35,607
Cash & Deposit	0	0	0	0	0	0	0	0	1,431	3,950	6,644	10,524	14,309	17,802	22,023	25,744	28,642	31,185	35,302	35,607
Net Fixed Assets	0	23,460	51,870	78,625	101,394	119,472	116,844	117,300	125,640	143,250	139,530	135,810	132,329	129,313	125,593	122,075	119,229	117,327	113,607	115,071
Construction costs	0	23,460	51,889	79,499	103,556	123,268	123,268	126,352	137,320	157,659	157,659	157,659	157,898	158,602	158,602	158,804	159,678	161,496	161,496	166,680
Accumulated depreciation	0	0	19	874	2,162	3,796	6,424	9,052	11,680	14,409	18,129	21,849	25,569	29,289	33,009	36,729	40,449	44,169	47,889	51,609
Total Assets	0	23,460	51,870	78,625	101,394	119,472	116,844	117,300	127,071	147,200	146,174	146,334	146,638	147,116	147,617	147,819	147,871	148,513	148,909	150,677
(Liabilities and capital)																				
Liabilities	0	23,460	52,311	80,891	106,565	124,338	122,928	123,648	133,519	152,566	150,989	149,413	146,663	142,492	136,987	130,720	123,742	116,764	109,663	102,210
Current liabilities (cross subsidy)	0	0	422	1,392	3,070	1,781	1,386	38	0	0	0	0	0	0	0	0	0	0	0	0
Fixed liabilities (Long-term loan)	0	23,460	51,889	79,499	103,495	122,557	121,541	123,610	133,519	152,566	150,989	149,413	146,663	142,492	136,987	130,720	123,742	116,764	109,663	102,210
Capital	0	0	-441	-2,266	-5,171	-4,866	-6,083	-6,348	-6,447	-5,366	-4,816	-3,079	-25	4,623	10,630	17,099	24,129	31,749	39,246	48,467
Investment in kind by gov. funds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retained Earnings	0	0	-441	-2,266	-5,171	-4,866	-6,083	-6,348	-6,447	-5,366	-4,816	-3,079	-25	4,623	10,630	17,099	24,129	31,749	39,246	48,467
Total Liabilities and capital	0	23,460	51,870	78,625	101,394	119,472	116,844	117,300	127,071	147,200	146,174	146,334	146,638	147,116	147,617	147,819	147,871	148,513	148,909	150,677

FINANCIAL INDICATORS																				
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Working Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	27.0%	33.8%	30.4%	34.6%	29.6%	27.7%	25.1%	22.9%	20.7%	18.8%	18.8%	18.8%	18.8%	18.8%	18.8%
Operating Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	50.5%	67.6%	60.8%	62.8%	54.6%	58.5%	52.9%	48.3%	43.6%	39.6%	39.6%	39.6%	39.6%		

Table A14.3.4 Financial Statements - Scenario 2 (Low Growth Case)

PROFIT AND LOSS STATEMENT (UNIT: '000 US\$)																				
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Operating Revenues	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857	17,857
Operating Expenses	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073	7,073
Personnel	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603
Administrations	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Maintenance & repairs	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,662
Depreciation costs	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Net Operating Income	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783
Non-operating Revenues	2,849	2,920	2,975	3,131	3,483	3,713	4,149	4,687	5,264	5,817	6,344	7,017	7,764	8,656	9,206	10,031	11,205	12,748	14,357	15,790
Interest on deposit	2,849	2,920	2,975	3,131	3,483	3,713	4,149	4,687	5,264	5,817	6,344	7,017	7,764	8,656	9,206	10,031	11,205	12,748	14,357	15,790
Non-operating Expenses	2,046	1,842	1,671	1,500	1,332	1,186	1,066	945	824	704	583	463	342	242	168	119	82	59	36	14
Interest on long-term loans	2,046	1,842	1,671	1,500	1,332	1,186	1,066	945	824	704	583	463	342	242	168	119	82	59	36	14
Interest on short-term loans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Income before Tax	11,586	11,861	12,087	12,414	12,933	13,310	13,866	14,525	15,223	15,896	16,544	17,338	18,205	19,196	19,820	20,696	21,906	23,472	25,104	26,558
Turnover Tax	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714
Land-using Tax	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Income Tax	1,642	1,453	1,874	2,677	2,091	2,853	3,279	3,443	3,339	3,235	3,842	4,146	4,363	2,463	3,030	3,929	5,229	5,504	4,730	3,209
Net Income after Tax	9,192	9,655	9,460	8,985	10,090	9,704	9,836	10,330	11,131	11,909	11,950	12,439	13,089	15,981	16,038	16,015	15,925	17,216	19,621	22,597
Retained Earnings	57,659	67,314	76,774	85,759	95,849	105,553	115,389	125,719	136,850	148,759	160,709	173,148	186,238	202,219	218,257	234,272	250,197	267,413	287,034	309,631

CASH FLOW STATEMENT (Unit: '000US\$)																				
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Cash Beginning	35,607	36,494	37,182	39,133	43,535	46,412	51,861	58,585	65,803	72,710	79,303	87,718	97,046	108,197	115,070	125,392	140,064	159,348	179,458	197,369
Cash Inflow (excluding G. Funds)	17,352	17,423	17,478	17,634	17,986	18,216	18,652	19,190	19,767	20,320	20,847	21,521	22,267	23,159	23,709	24,534	25,708	27,251	28,860	30,293
Net operating income	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783	10,783
Depreciation costs	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720	3,720
Long-term loans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest on deposits	2,849	2,920	2,975	3,131	3,483	3,713	4,149	4,687	5,264	5,817	6,344	7,017	7,764	8,656	9,206	10,031	11,205	12,748	14,357	15,790
Cash Outflow (excluding G. Funds)	16,464	16,735	15,527	13,232	15,108	12,768	11,928	11,972	12,860	13,727	12,433	12,193	11,116	16,286	13,387	9,862	6,424	7,142	10,949	16,947
Investment	4,267	5,295	3,837	954	3,816	1,145	0	0	1,113	2,205	424	0	0	8,591	6,948	4,229	239	705	5,430	12,971
Repayment for long-term loans	7,758	7,392	7,392	7,349	7,116	6,831	6,831	6,831	6,831	6,831	6,831	6,831	5,658	4,237	2,488	833	122	122	0	0
Interest on long-term loans	2,046	1,842	1,671	1,500	1,332	1,186	1,066	945	824	704	583	463	342	242	168	119	82	59	36	14
Turnover Tax	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714
Land-using Tax	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Income Tax	1,642	1,453	1,874	2,677	2,091	2,853	3,279	3,443	3,339	3,235	3,842	4,146	4,363	2,463	3,030	3,929	5,229	5,504	4,730	3,209
Interest on short-term loans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Inflow - Cash Outflow	887	688	1,951	4,402	2,878	5,448	6,724	7,218	6,907	6,593	8,415	9,328	11,151	6,873	10,322	14,673	19,284	20,109	17,911	13,346
Cash Ending	36,494	37,182	39,133	43,535	46,412	51,861	58,585	65,803	72,710	79,303	87,718	97,046	108,197	115,070	125,392	140,064	159,348	179,458	197,369	210,715
Cash excess	36,494	37,182	39,133	43,535	46,412	51,861	58,585	65,803	72,710	79,303	87,718	97,046	108,197	115,070	125,392	140,064	159,348	179,458	197,369	210,715
Cash shortage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BALANCE SHEET (UNIT: '000US\$)																				
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
(Assets)																				
Current Assets	36,494	37,182	39,133	43,535	46,412	51,861	58,585	65,803	72,710	79,303	87,718	97,046	108,197	115,070	125,392	140,064	159,348	179,458	197,369	210,715
Cash & Deposit	36,494	37,182	39,133	43,535	46,412	51,861	58,585	65,803	72,710	79,303	87,718	97,046	108,197	115,070	125,392	140,064	159,348	179,458	197,369	210,715
Net Fixed Assets	115,617	117,192	117,309	114,543	114,639	112,064	108,344	104,624	102,017	100,502	97,206	93,486	89,766	94,637	97,865	98,375	94,893	91,878	93,588	102,840
Construction costs	170,946	176,241	180,078	181,032	184,848	185,993	185,993	185,993	187,106	189,311	189,735	189,735	189,735	198,326	205,274	209,504	209,742	210,447	215,877	228,849
Accumulated depreciation	55,329	59,049	62,769	66,489	70,209	73,929	77,649	81,369	85,089	88,809	92,529	96,249	99,969	103,689	107,409	111,129	114,849	118,569	122,289	126,009
Total Assets	152,111	154,374	156,442	158,078	161,052	163,925	166,929	170,427	174,727	179,805	184,924	190,532	197,963	209,707	223,257	238,439	254,242	271,336	290,957	313,554
(Liabilities and capital)																				
Liabilities	94,452	87,060	79,668	72,319	65,203	58,371	51,540	44,709	37,877	31,046	24,215	17,383	11,725	7,488	5,000	4,167	4,045	3,923	3,923	3,923
Current liabilities (cross subsidy)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fixed liabilities (Long-term loan)	94,452	87,060	79,668	72,319	65,203	58,371	51,540	44,709	37,877	31,046	24,215	17,383	11,725	7,488	5,000	4,167	4,045	3,923	3,923	3,923
Capital	57,659	67,314	76,774	85,759	95,849	105,553	115,389	125,719	136,850	148,759	160,709	173,148	186,238	202,219	218,257	234,272	250,197	267,413	287,034	309,631
Investment in kind by gov. funds																				
Retained Earnings	57,659	67,314	76,774	85,759	95,849	105,553	115,389	125,719	136,850	148,759	160,709	173,148	186,238	202,219	218,257	234,272	250,197	267,413	287,034	309,631
Total Liabilities and capital	152,111	154,374	156,442	158,078	161,052	163,925	166,929	170,427	174,727	179,805	184,924	190,532	197,963	209,707	223,257</					

Table A14.4.1 International Balance of Payments (Unit: million US\$)

	1991	1992	1993	1994	1995
Current account balance	-133	-8	-767	-1,166	-2,132
Trade balance	-63	-60	-547	-1,190	-2,345
Exports	2,042	2,475	2,985	4,054	5,198
Imports	-2,105	-2,535	-3,532	-5,244	-7,543
Invisible trade balance	-160	-71	-484	-278	-77
Transfer account	90	123	264	302	290
Private	35	59	70	170	140
Official	55	64	194	132	150
Capital account	-	-	-	-	-
Foreign direct investment	220	260	300	1,048	1,780
Other long-term capital	-191	52	-597	-275	93
Other short-term capital	88	-41	177	124	311
Errors and omissions	142	-197	-109	-140	125
Overall balance	-50	66	-1,056	-409	177

Source: Asian development Bank, "Key Indicators of Developing Asian and Pacific Countries 1996"

Table A14.4.2 Transition of Balance of External Debt

	1990	1991	1992	1993	1994
Total balance of external debt	22,268	22,450	23,840	24,360	25,115
Long-term external debt	20,753	20,763	21,418	21,825	22,226
Official creditors	20,753	20,763	21,418	21,825	22,226
Private creditors	0	0	0	0	0
IMF (including Trust Fund)	112	102	98	100	282
Short-term external debt	1,403	1,584	2,324	2,436	2,607

Source: World Bank, "World Debt Tables 1996"

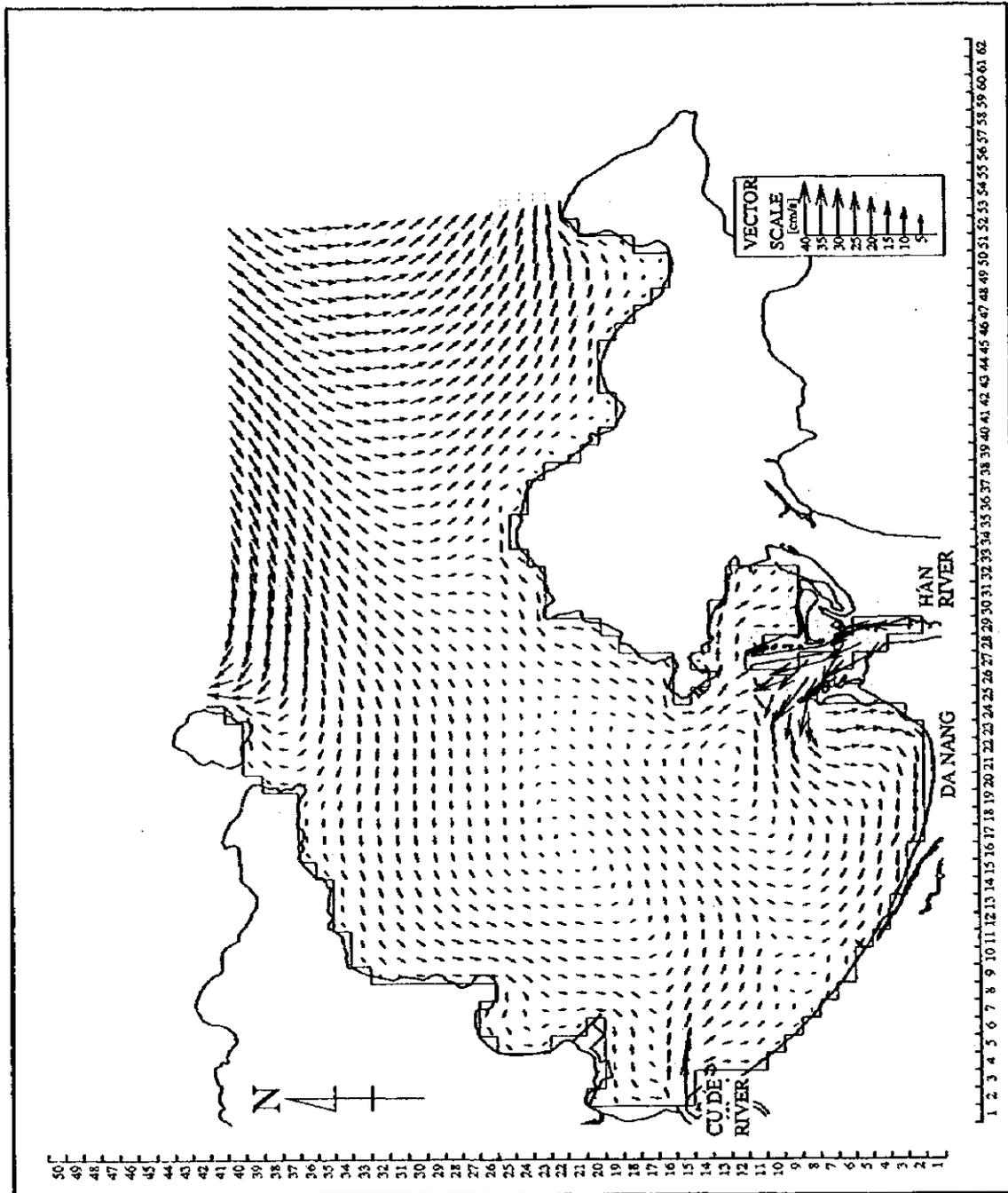


Figure A15.4.1 Calculated tidal current pattern of Danang Bay during flood tide for suspended solid simulation

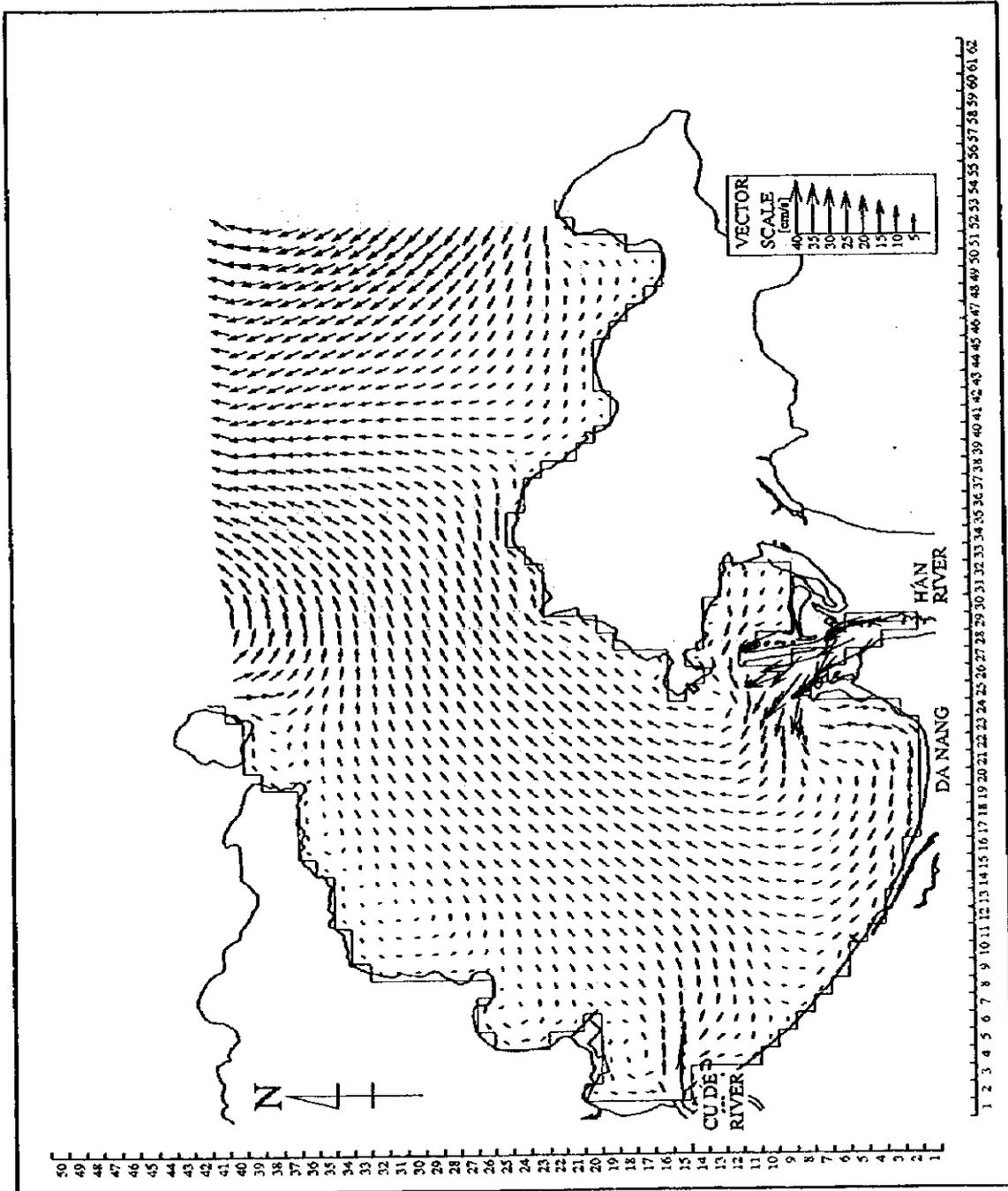


Figure A15.4.2 Calculated tidal current pattern of Danang Bay during ebb tide for suspended solid simulation

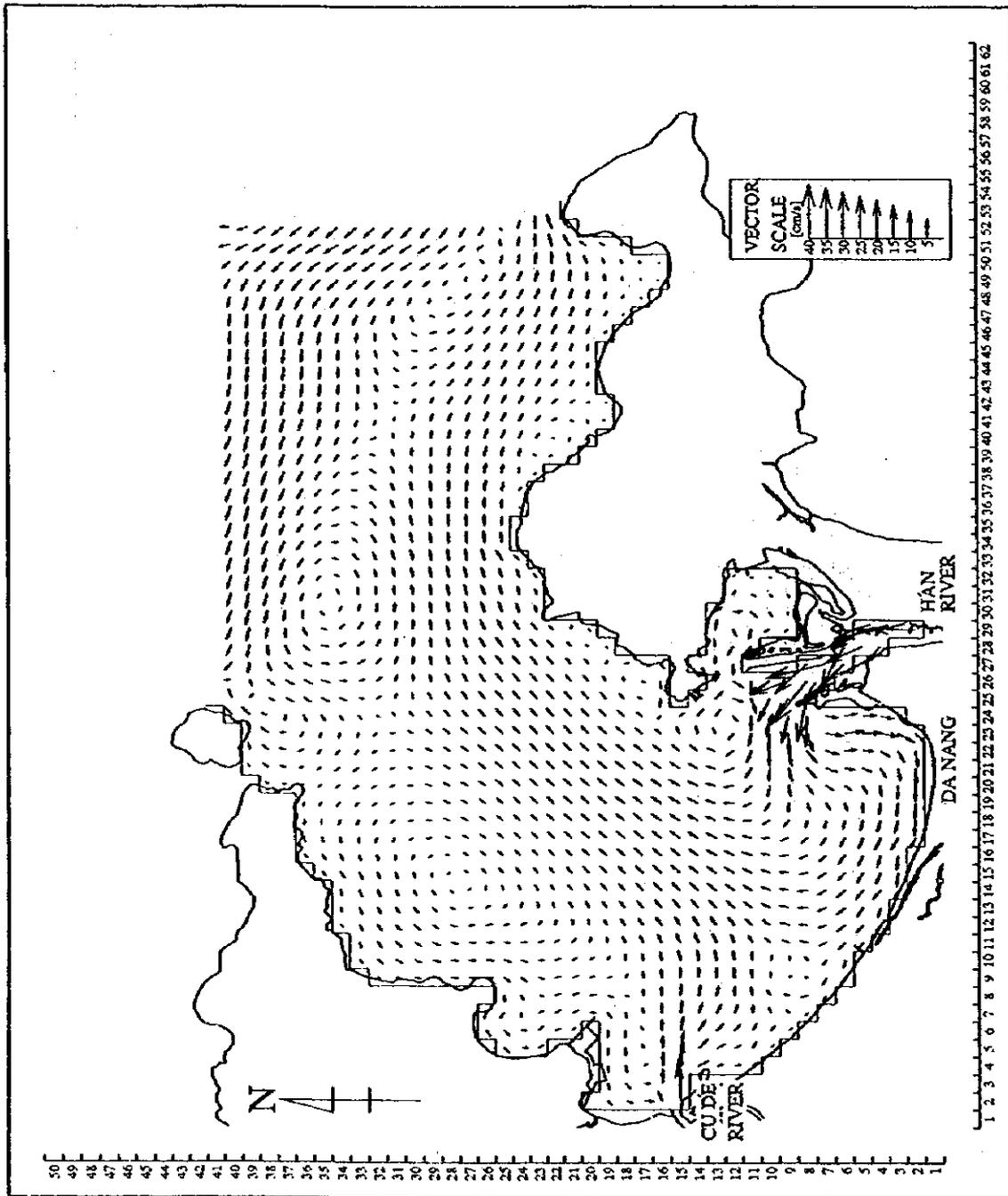


Figure A15.4.3 Residual current pattern of Danang Bay during flood tide for suspended solid simulation

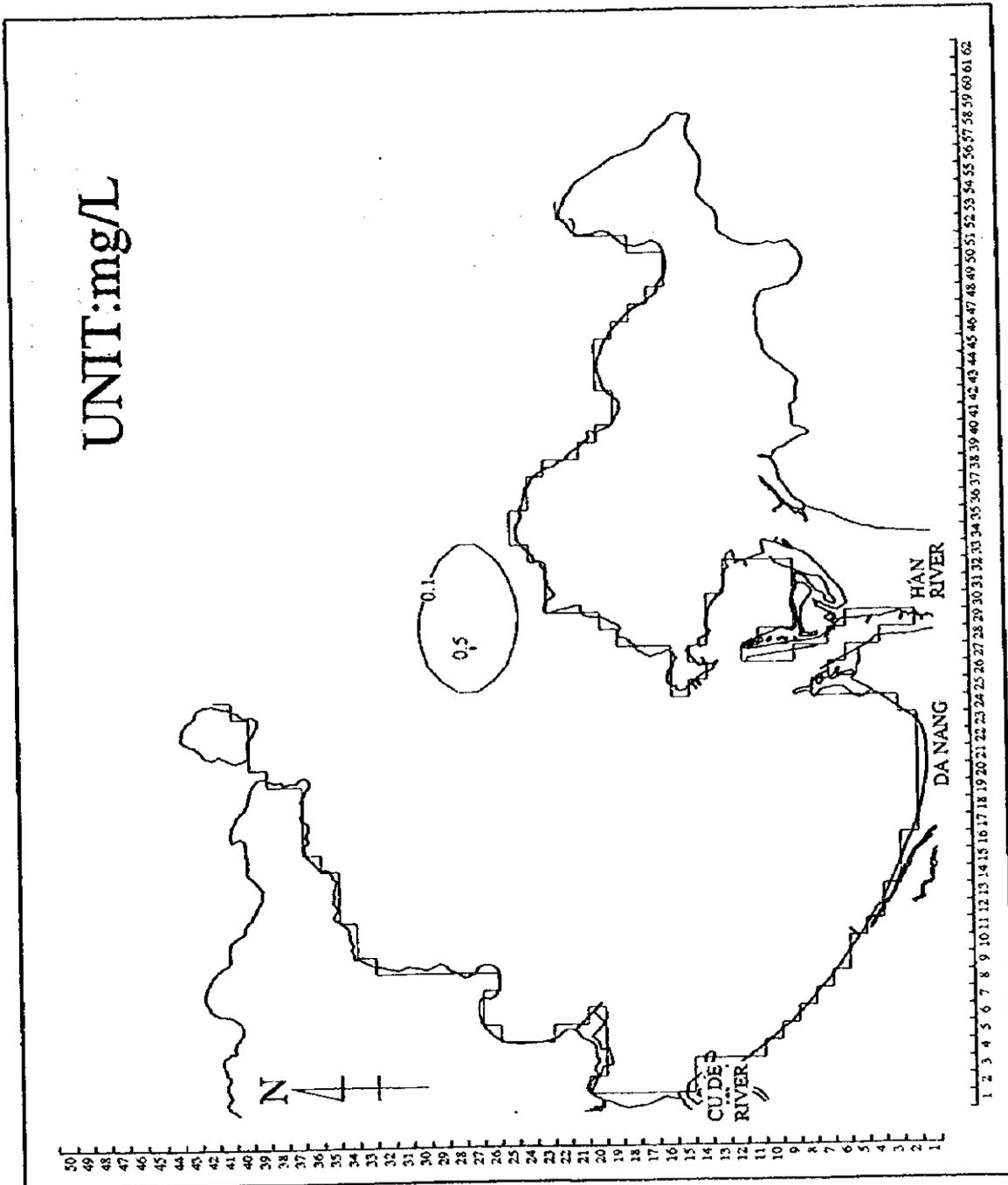


Figure A15.4.4 Daily mean concentration of suspended solid (Dumping Site B)

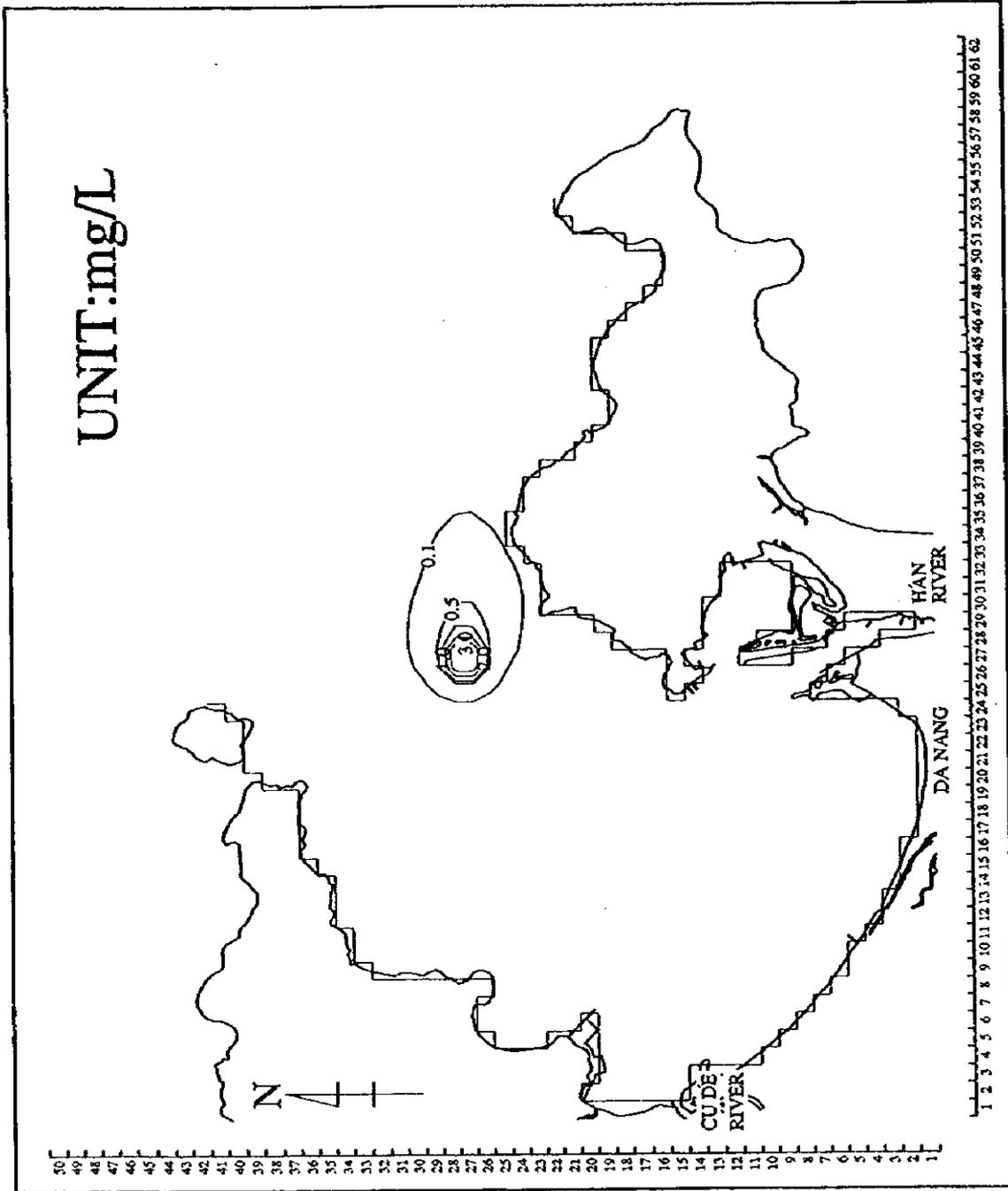


Figure A15.4.5 Daily maximum concentration of suspended solid (Dumping Site B)

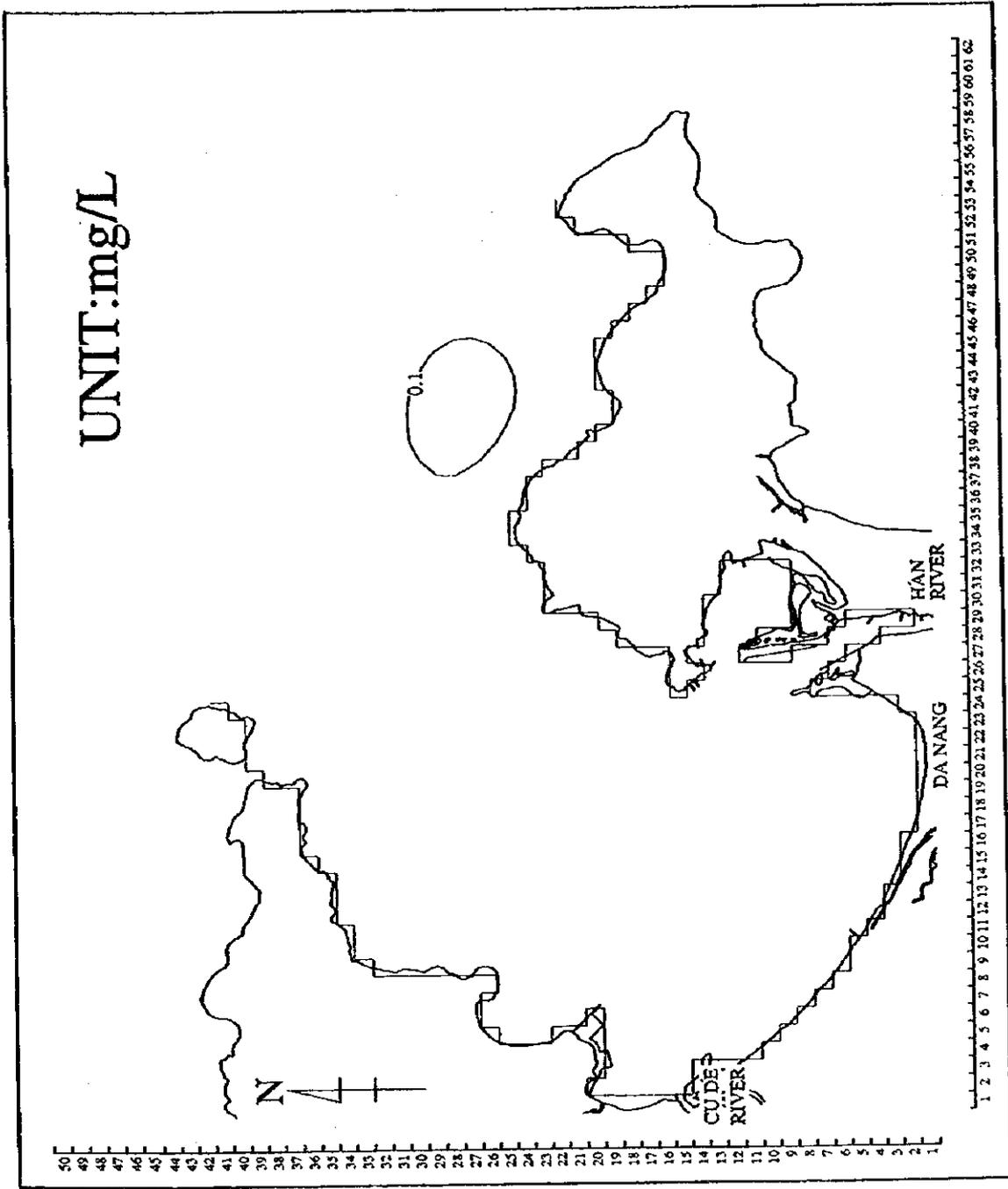


Figure A15.4.6 Daily mean concentration of suspended solid (Dumping Site A)

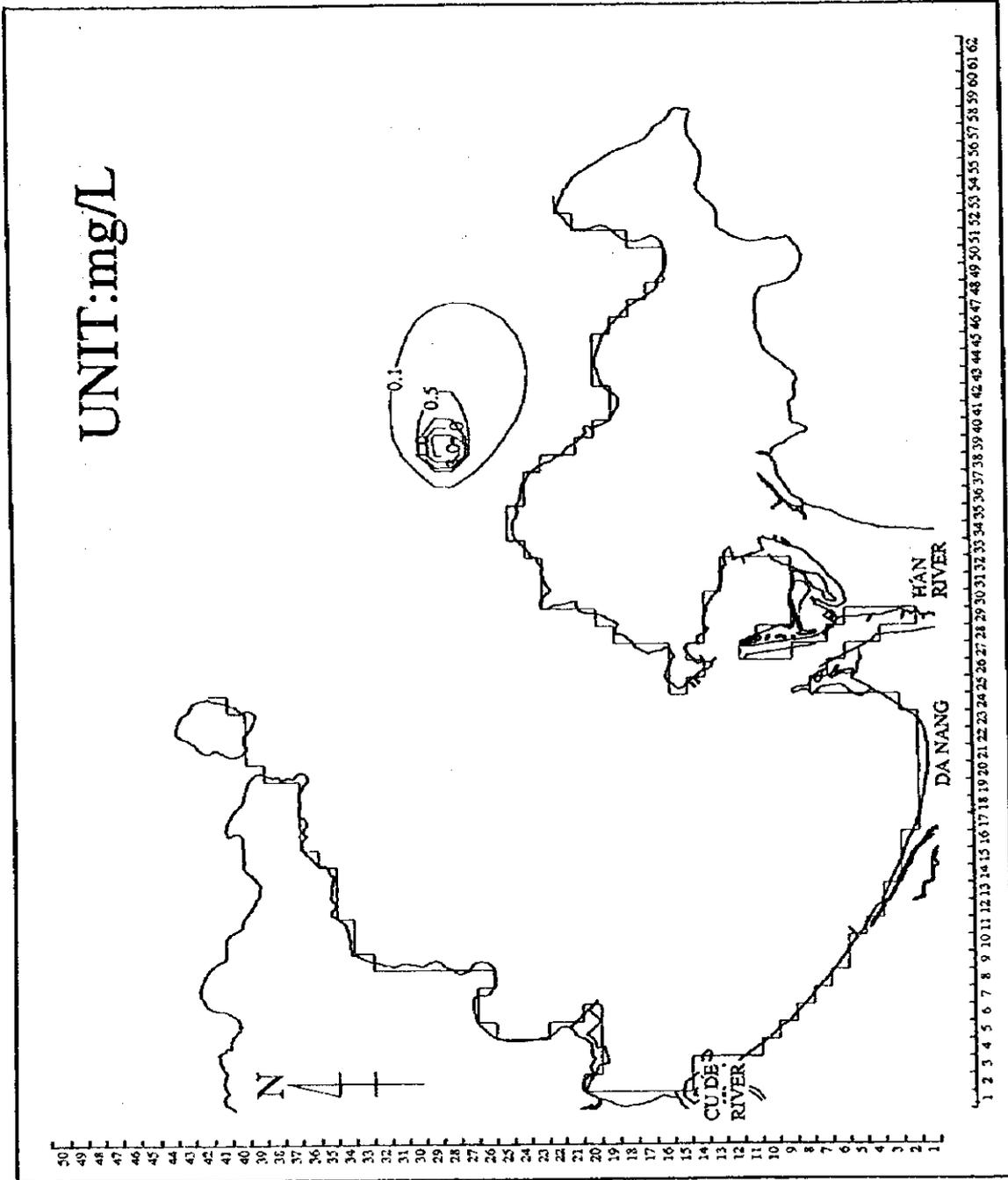


Figure A15.4.7 Daily maximum concentration of suspended solid (Dumping Site A)

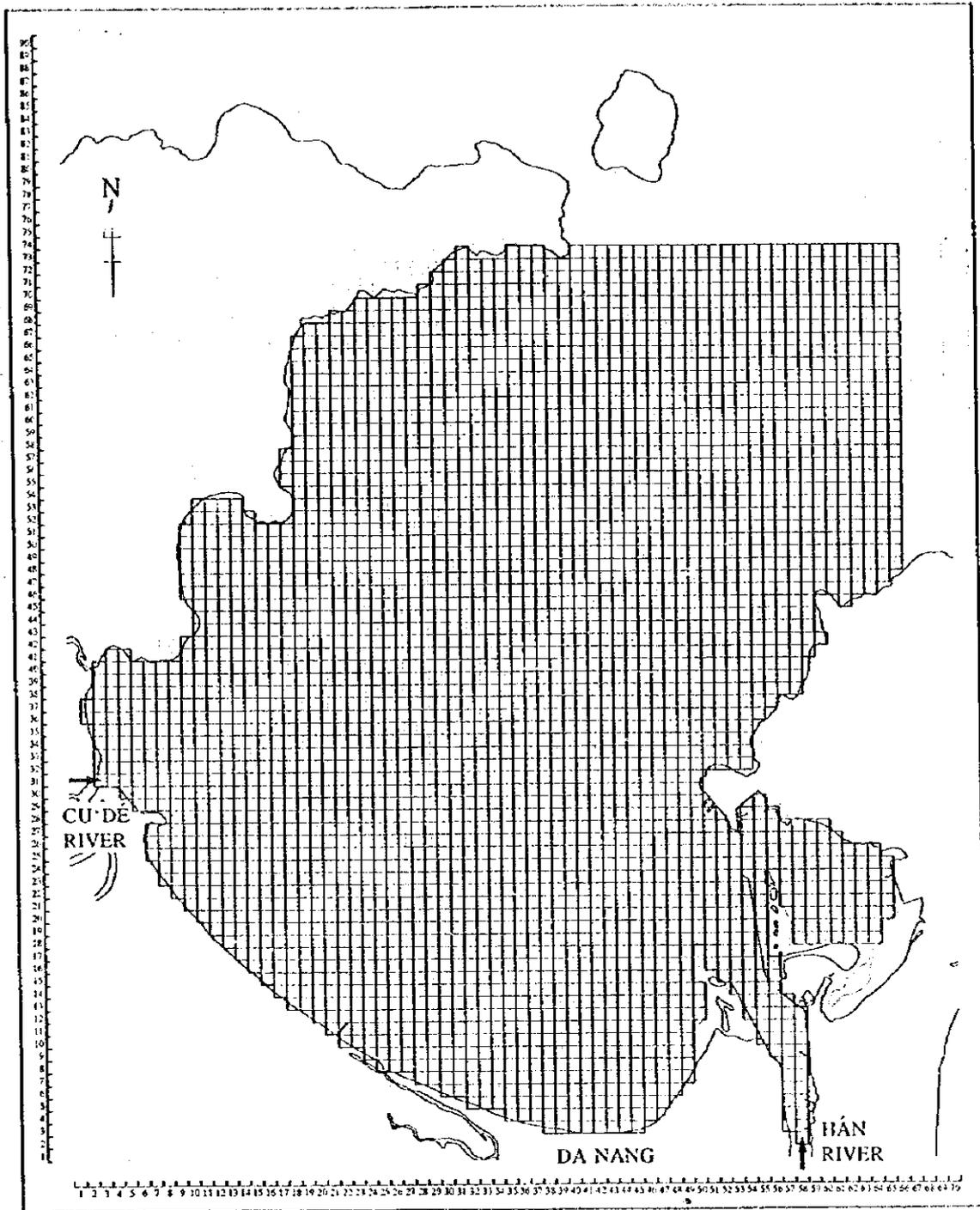


Figure A15.4.8 Simulation Area and Inflows

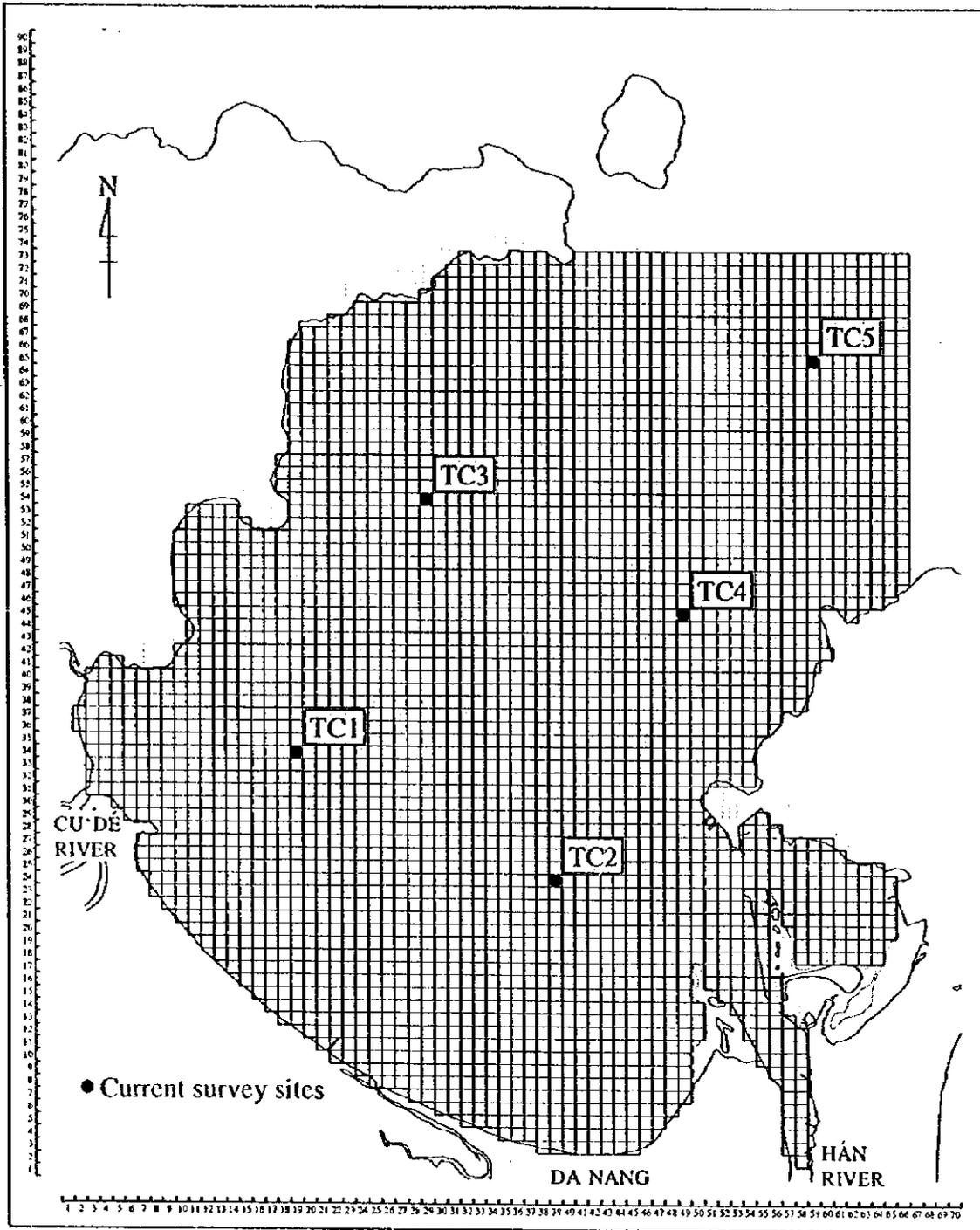


Figure A15.4.9 Location of current survey site

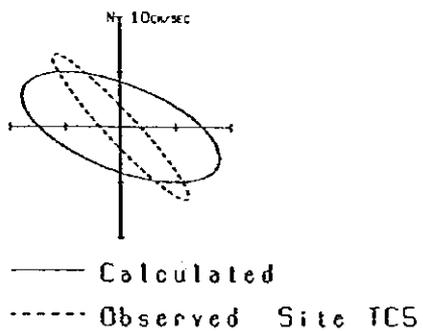
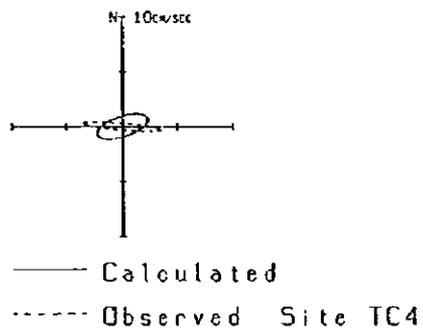
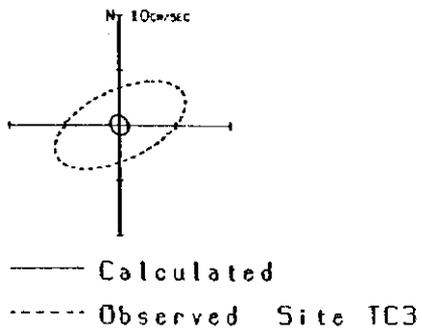
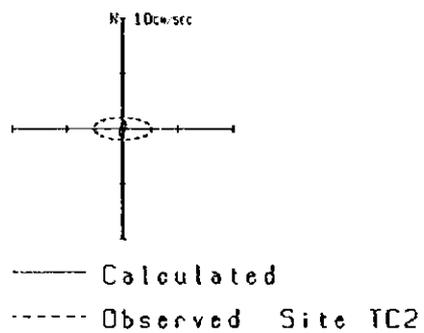
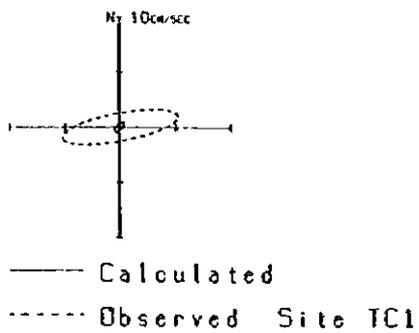


Figure A15.4.10 Comparison of current ellipse

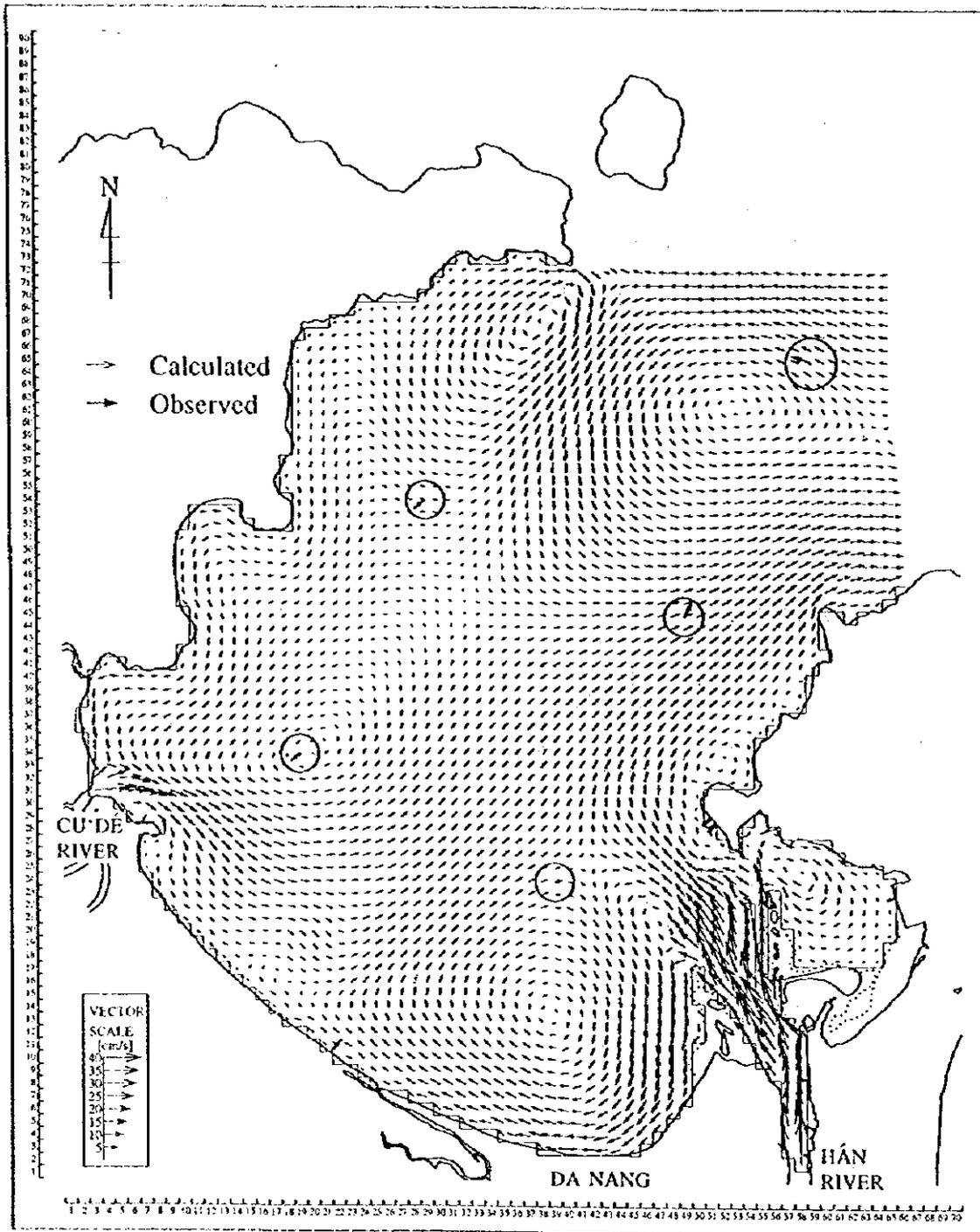


Figure A15.4.11 Residual current pattern and observed current

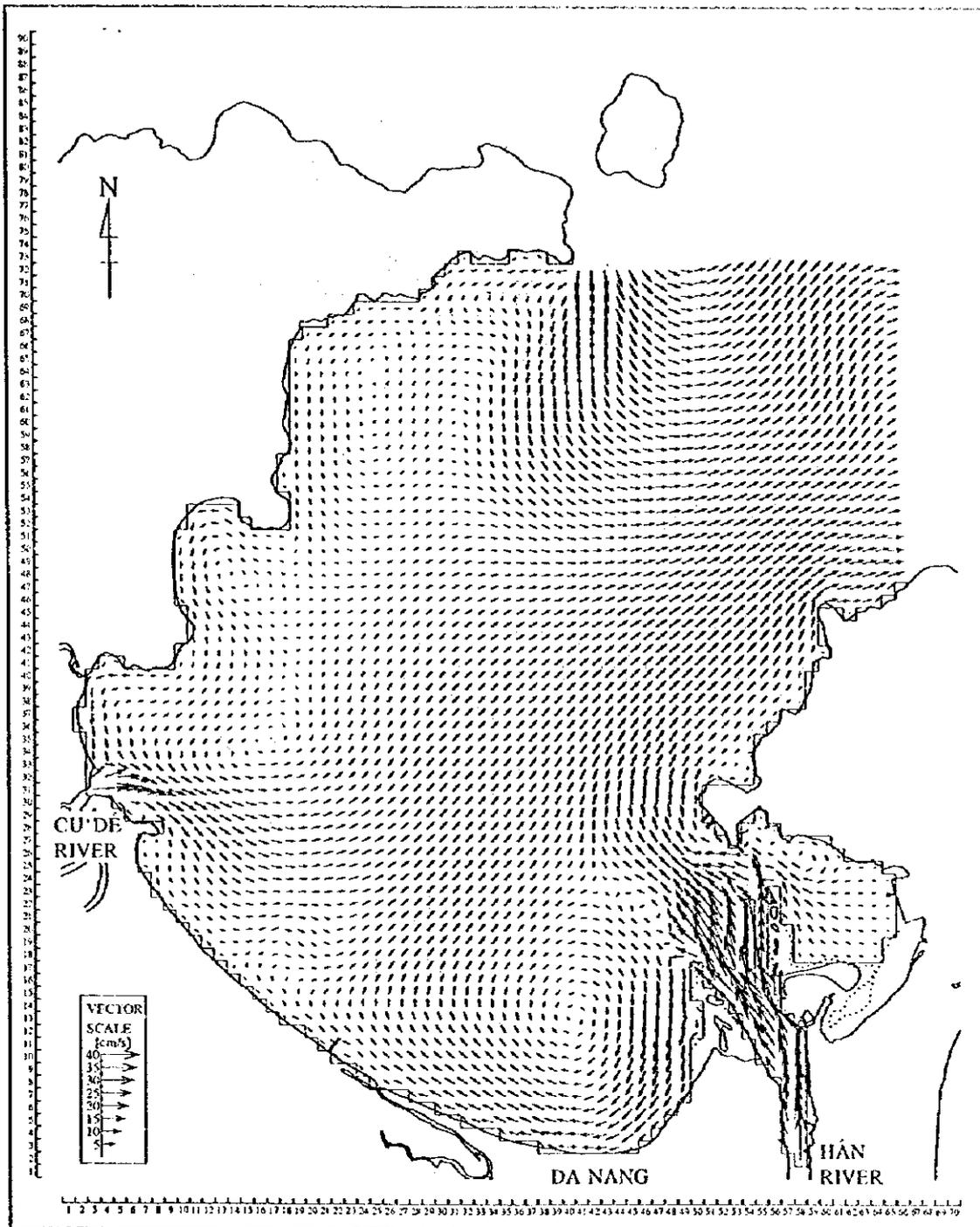


Figure A15.4.12 Calculated tidal current pattern during ebb tide

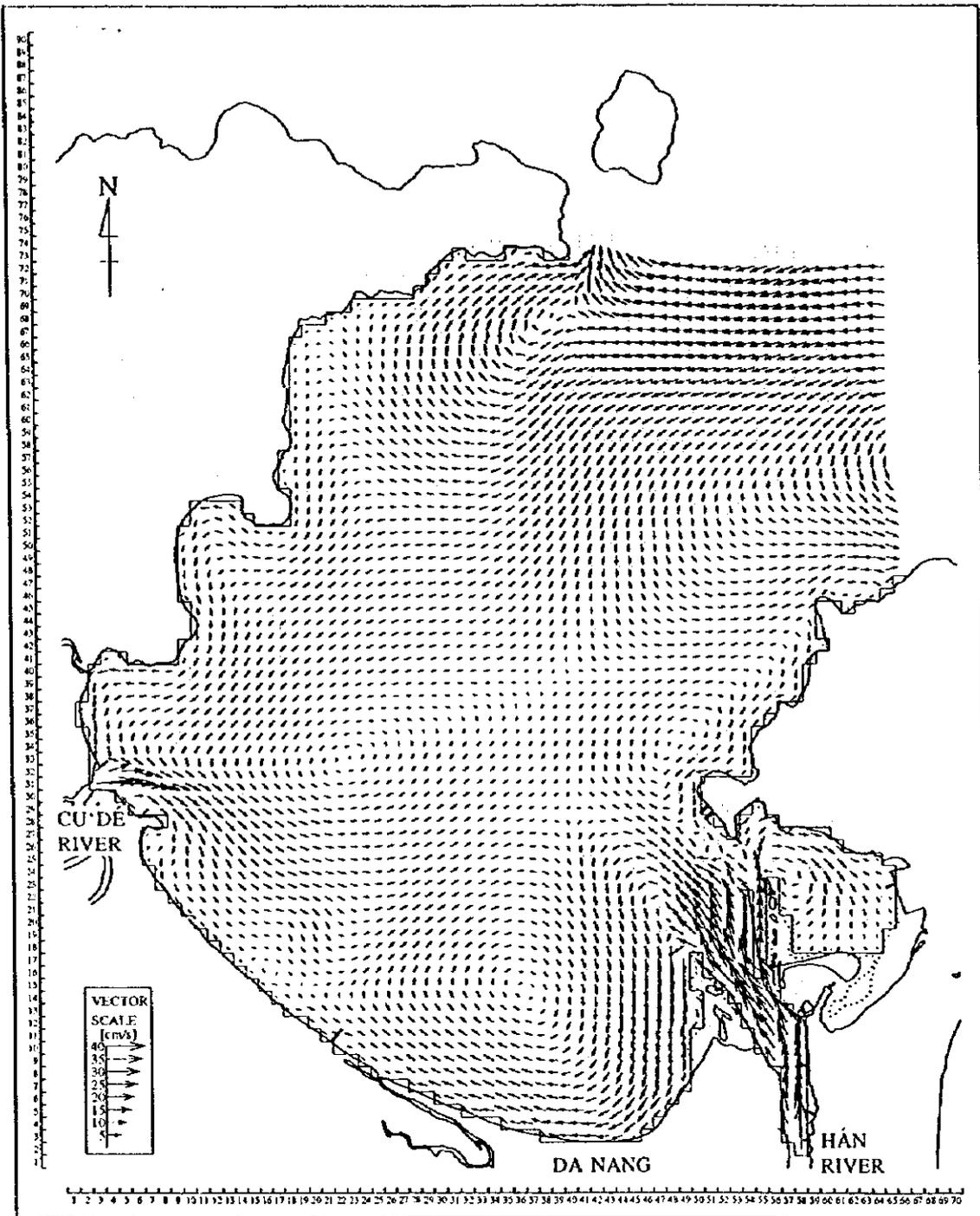


Figure A15.4.13 Calculated tidal current pattern during flood tide

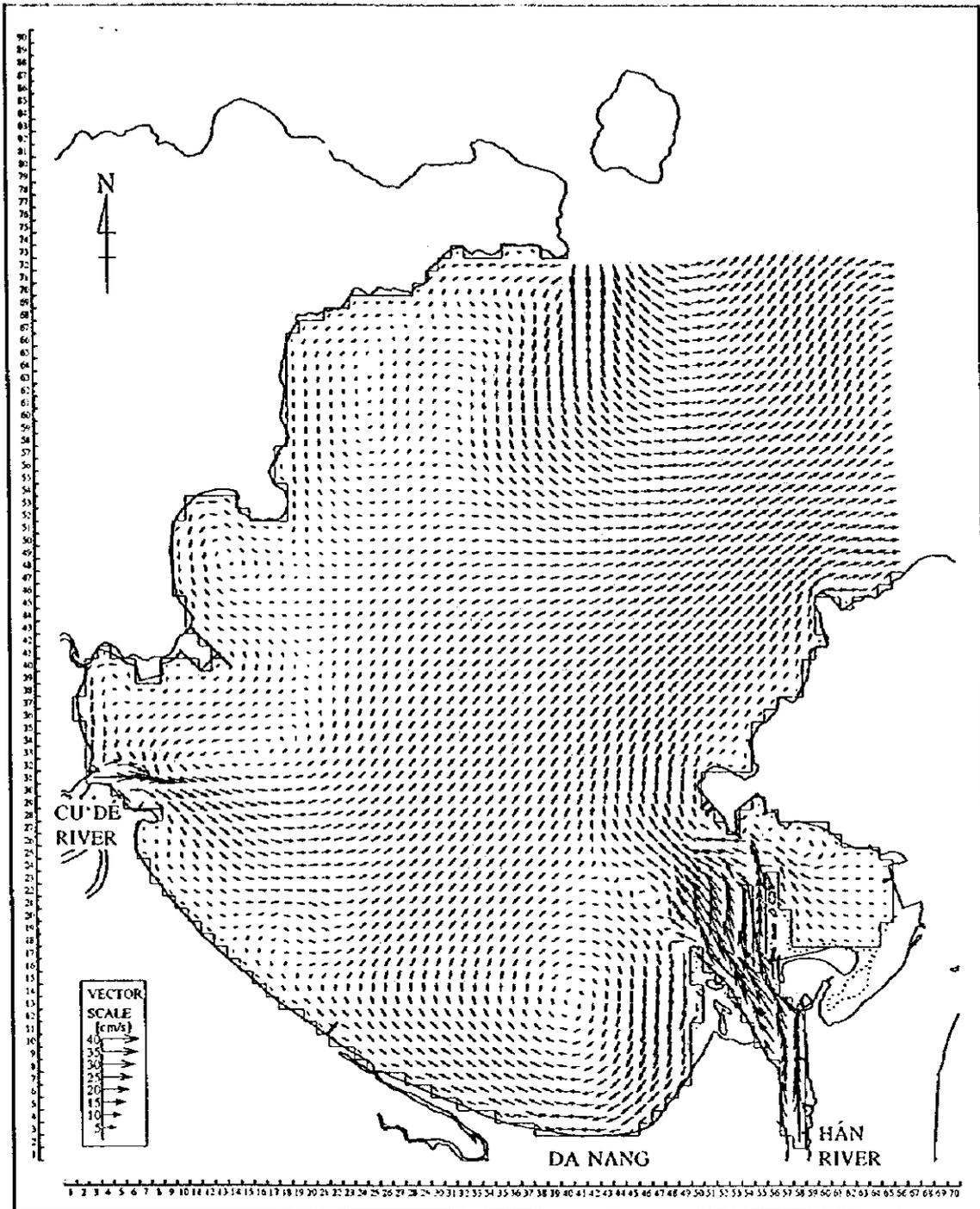


Figure A15.4.14 Calculated tidal current pattern during ebb tide
(ISP, Short-term Development)

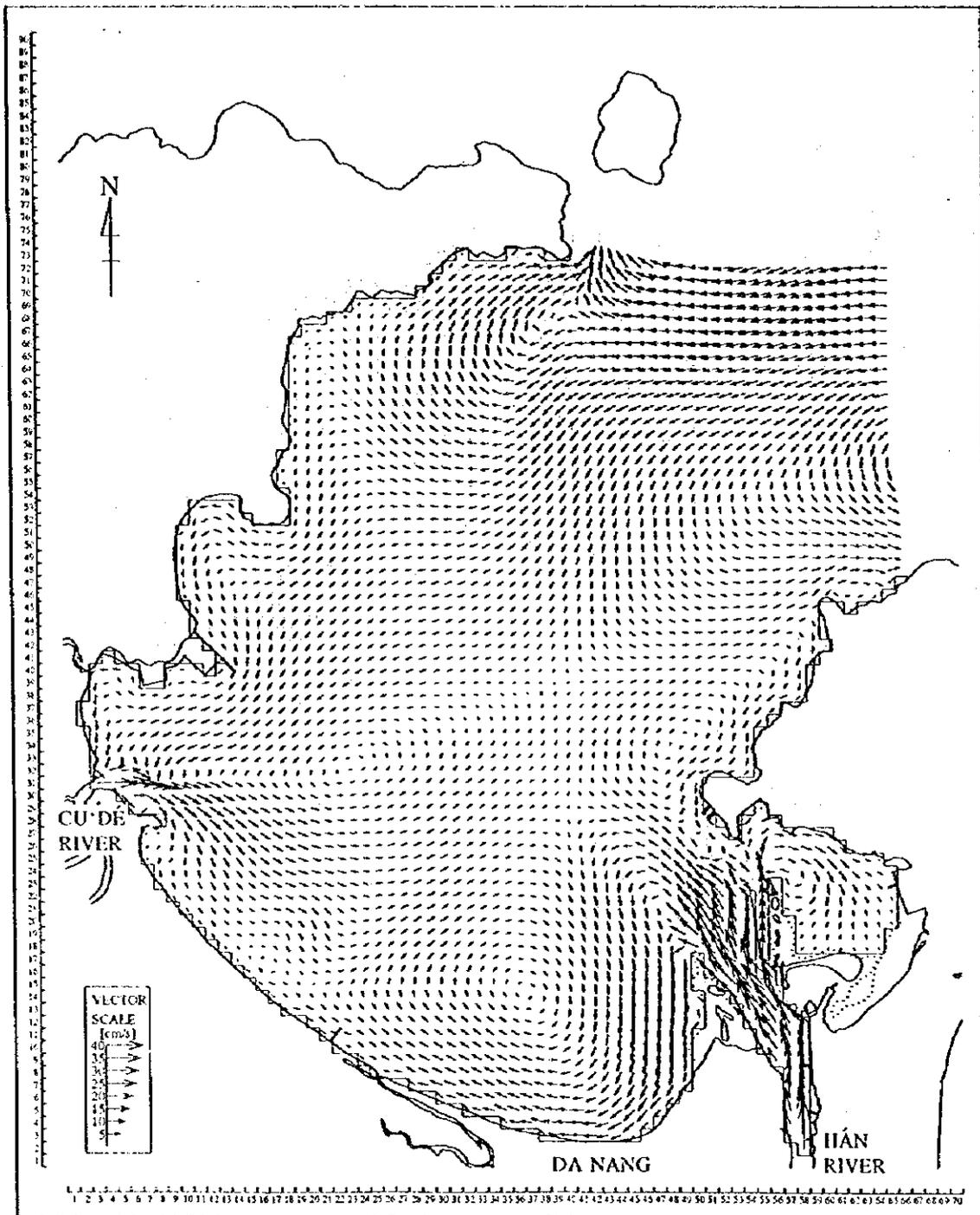


Figure A15.4.15 Calculated tidal current pattern during flood tide (ISP. Short-term Development)

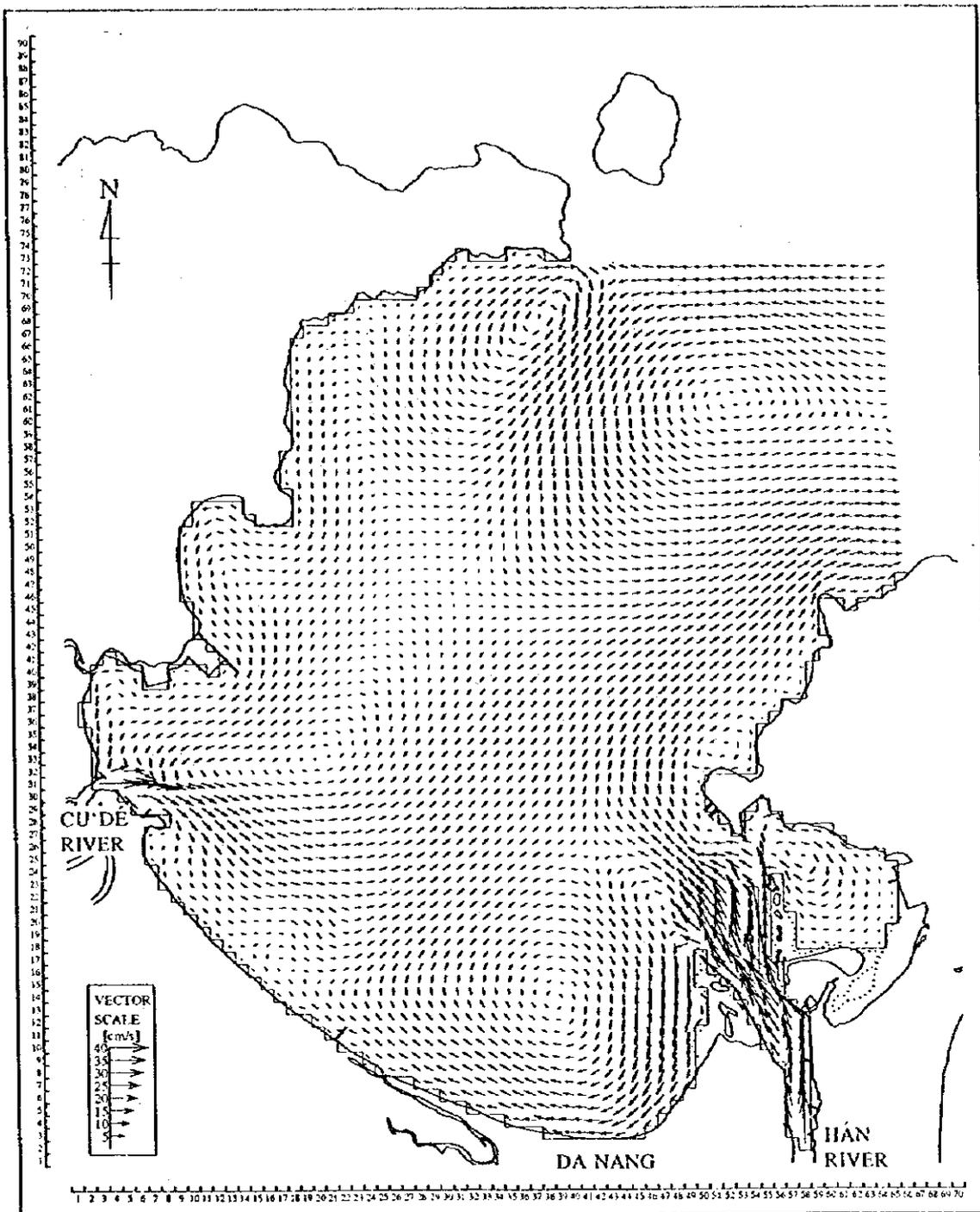


Figure A15.4.16 Residual current pattern (ISP. Short-term Development)

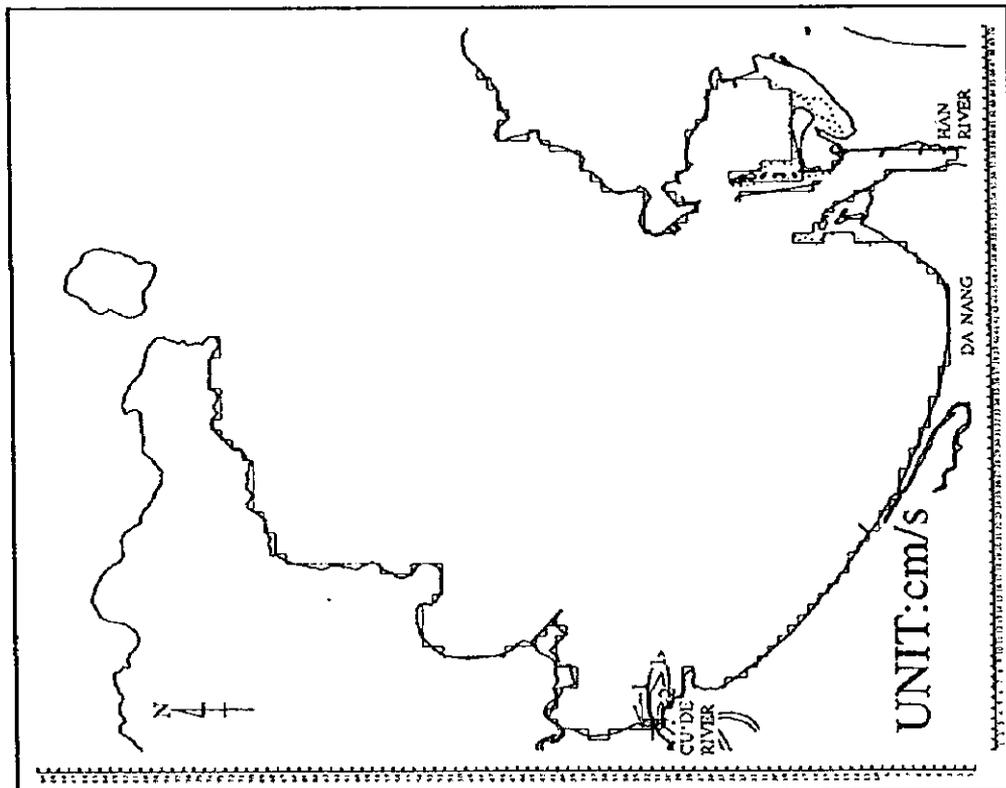
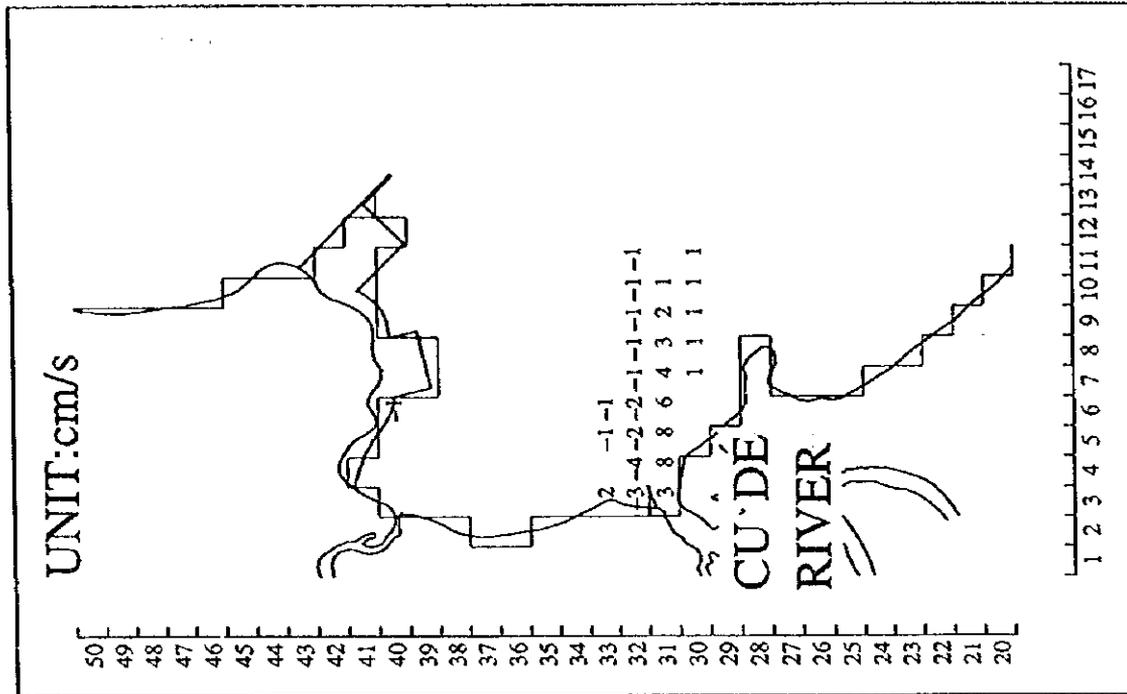


Figure A15.4.17 Change of current speed during ebb tide
(ISP. Short-term Development)

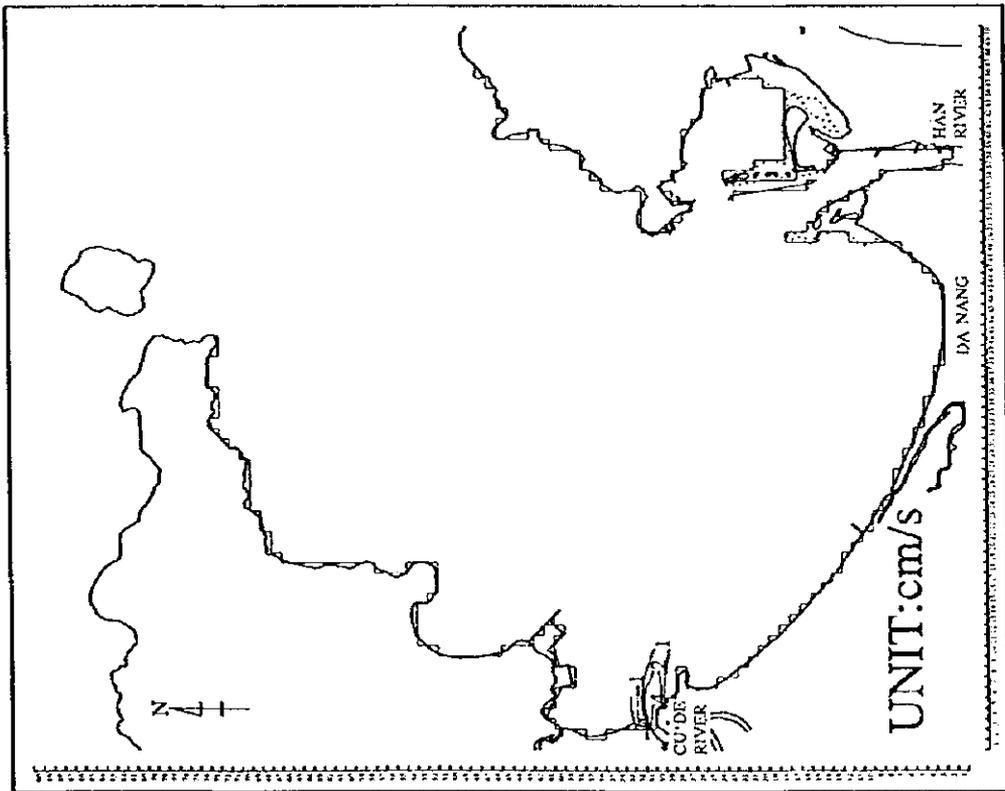
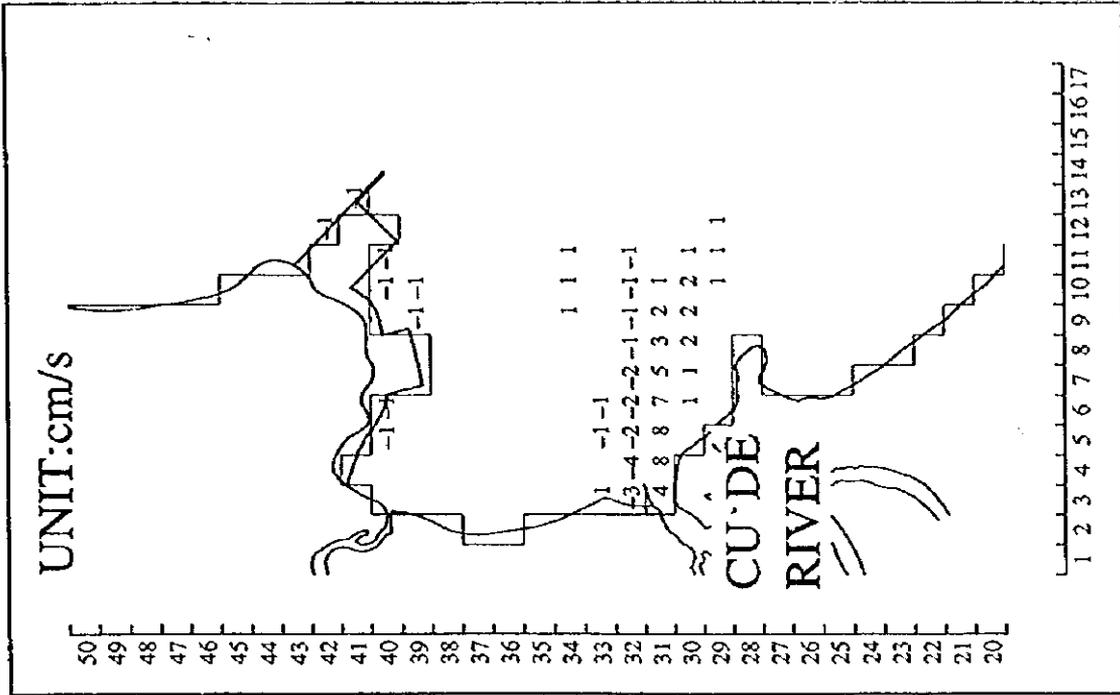


Figure A15.4.18 Change of current speed during flood tide
(ISP. Short-term Development Plan)

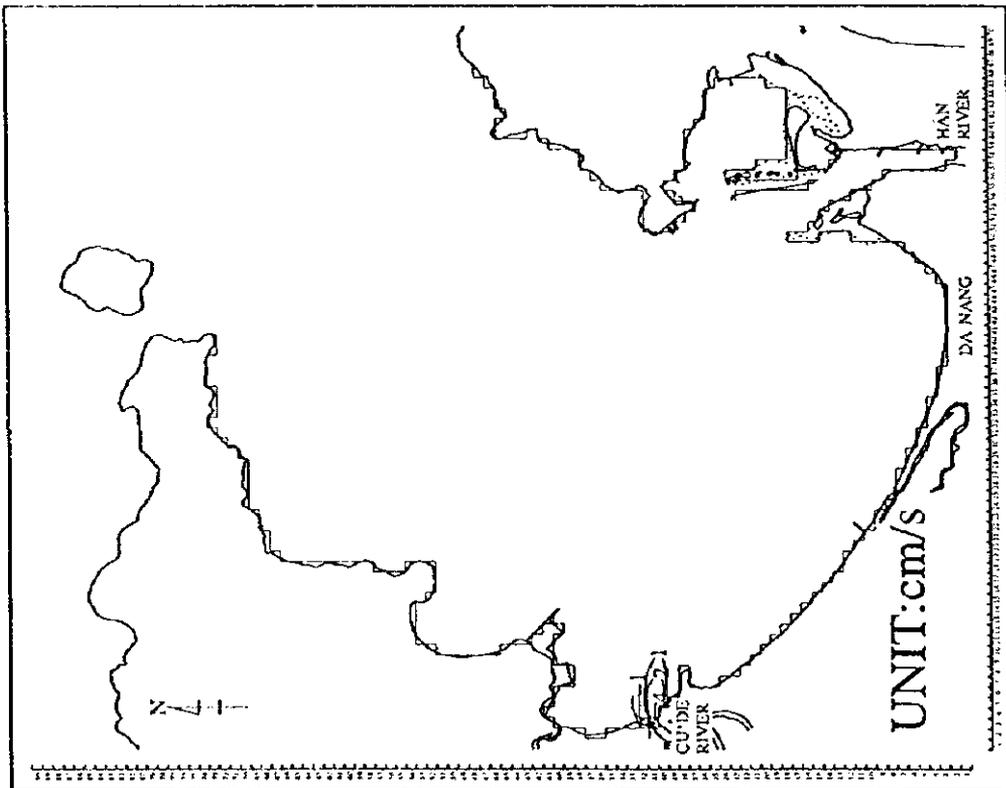
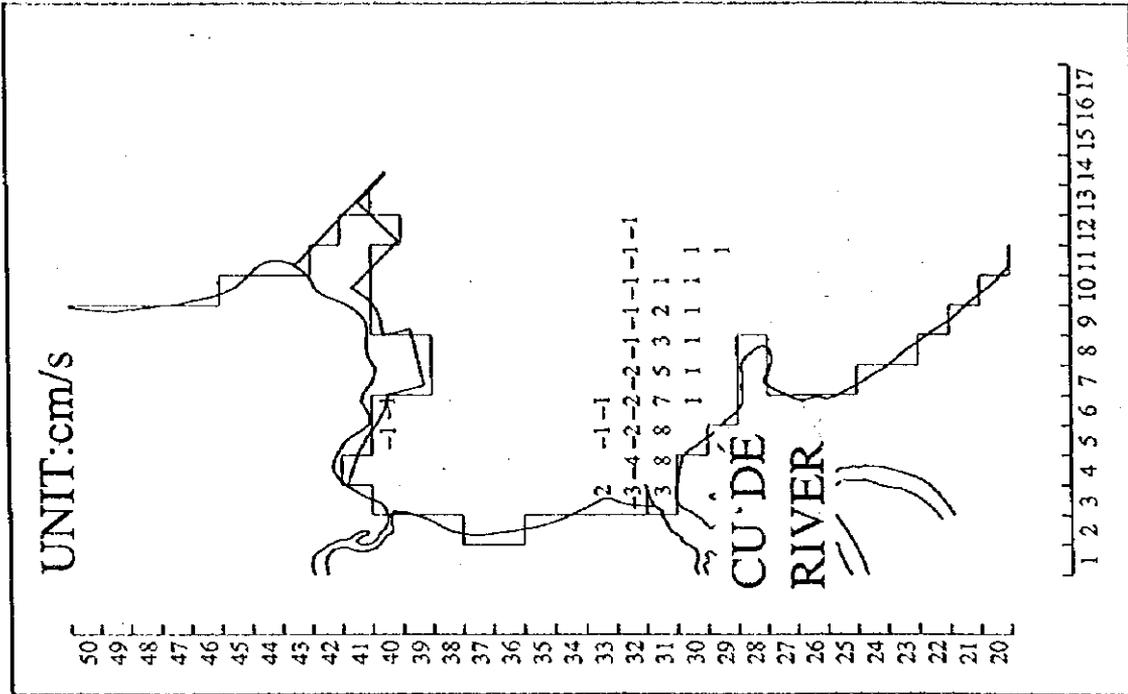


Figure AIS.4.19 Change of residual current speed (ISP. Short-term Development)

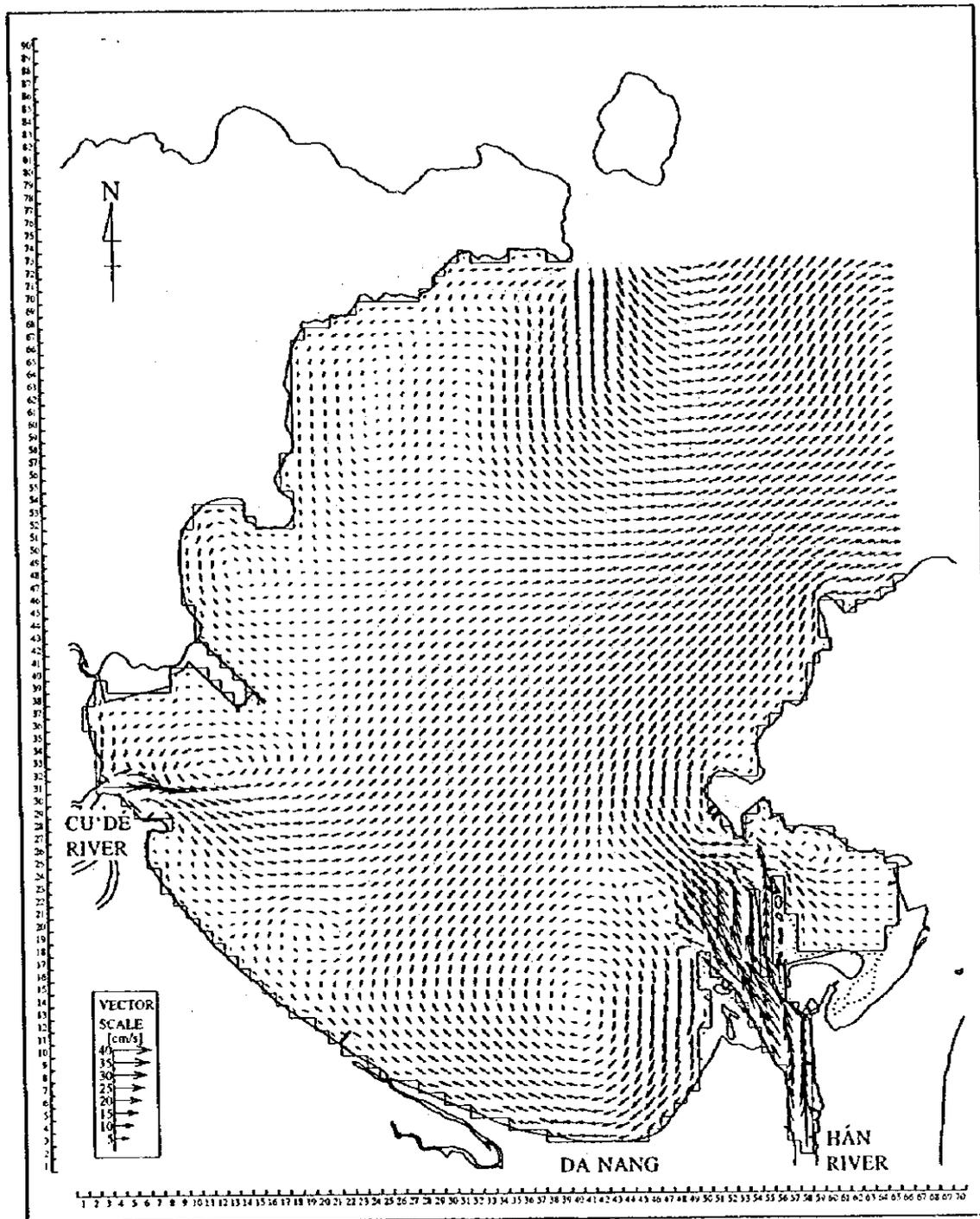


Figure A15.4.20 Calculated tidal current pattern during ebb tide (Master Plan)

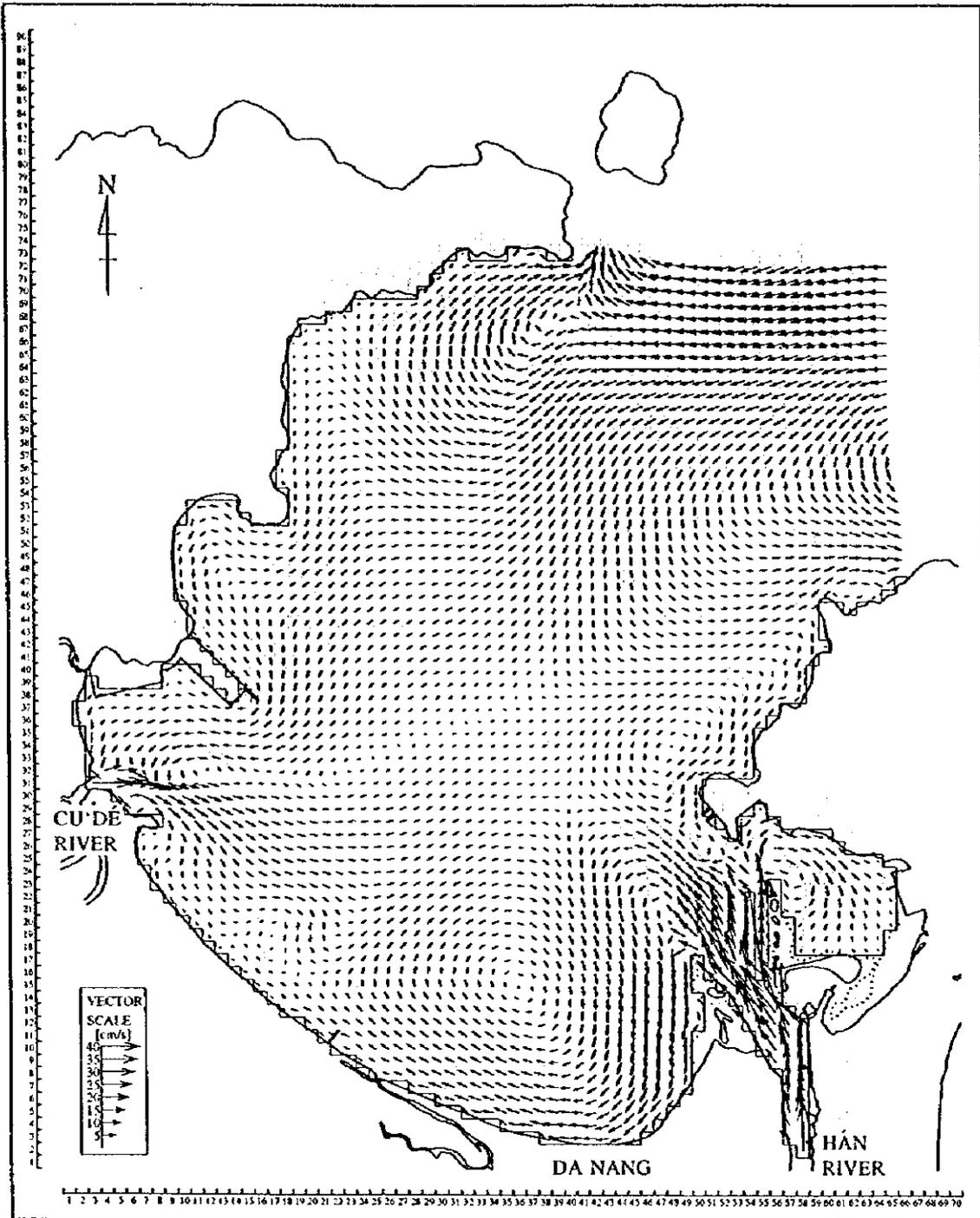


Figure A15.4.21 Calculated tidal current pattern during flood tide (Master Plan)

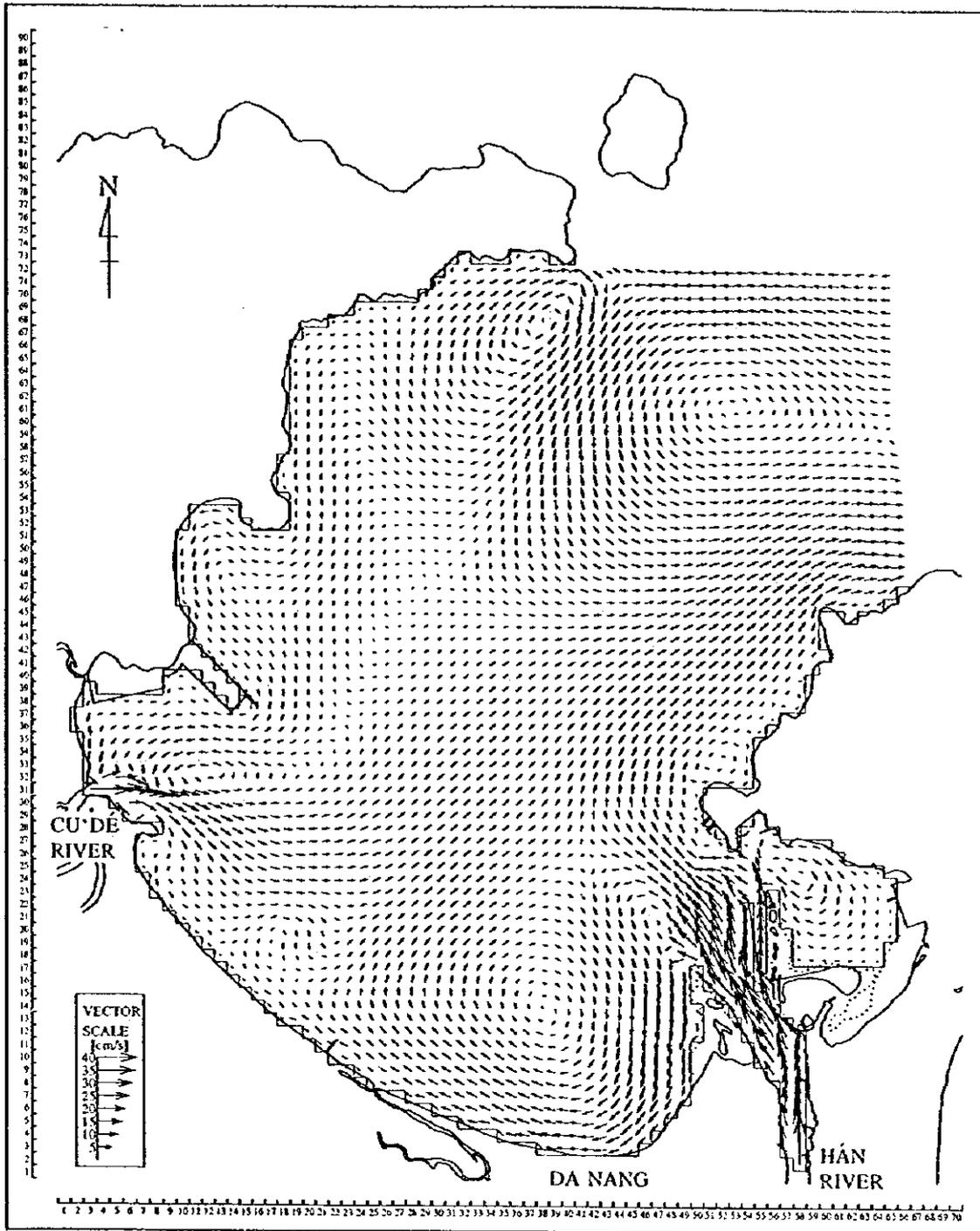


Figure A15.4.22 Residual current pattern (Master Plan)

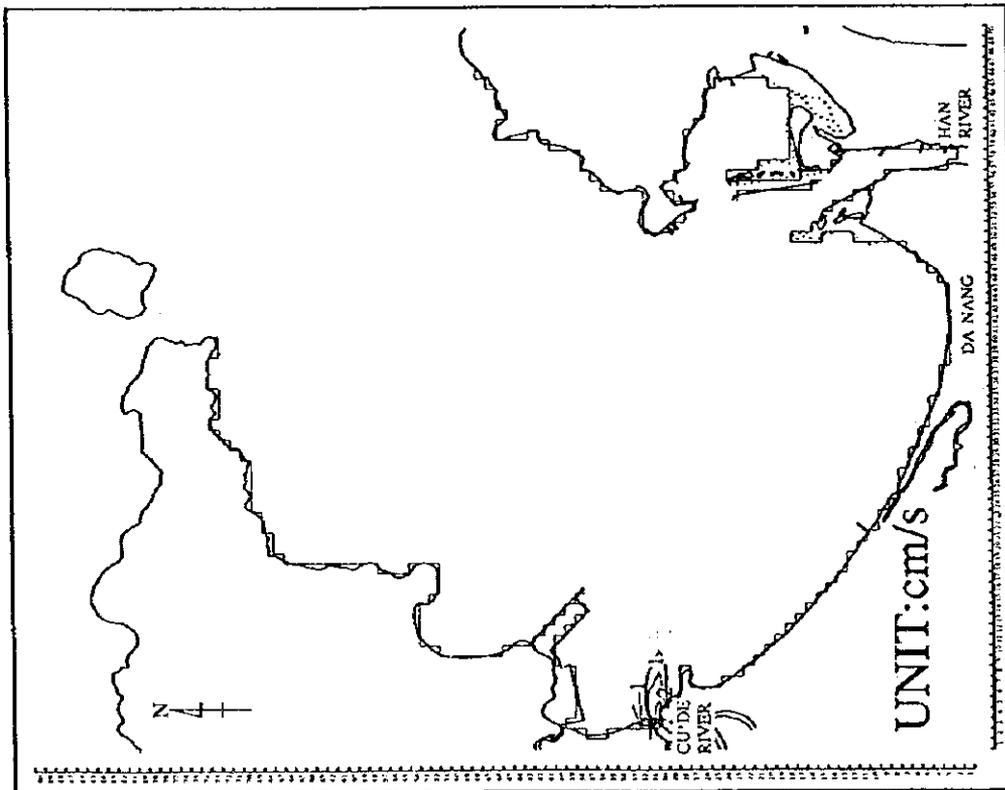
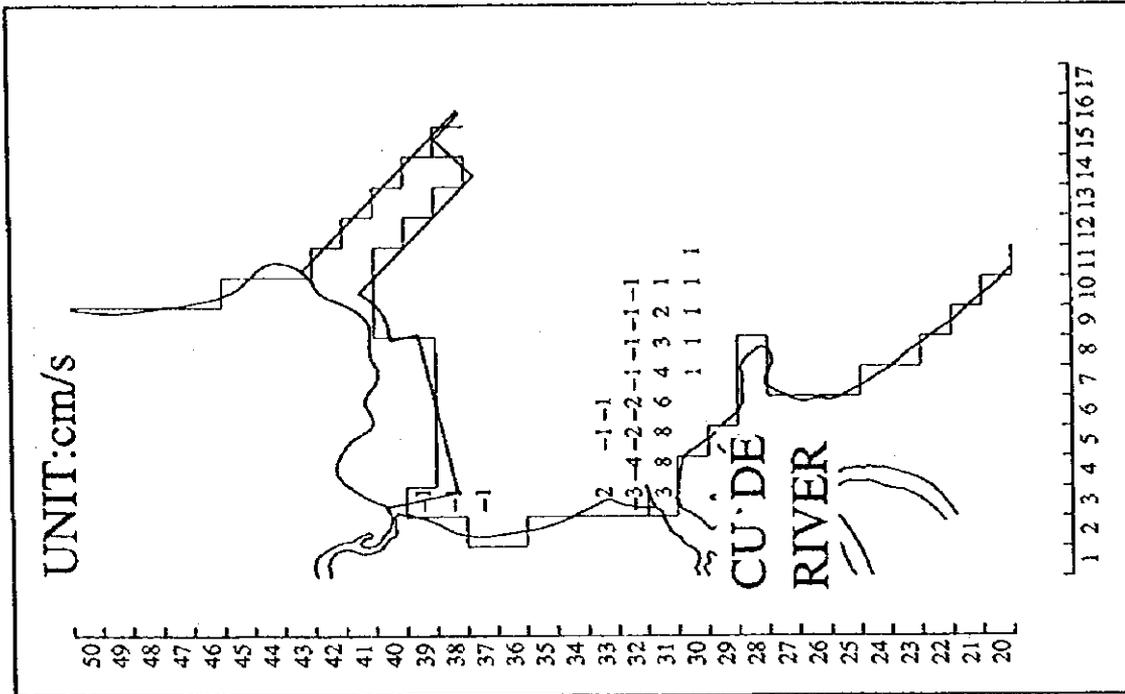


Figure A15.4.23 Change of current speed during ebb tide (Master Plan)

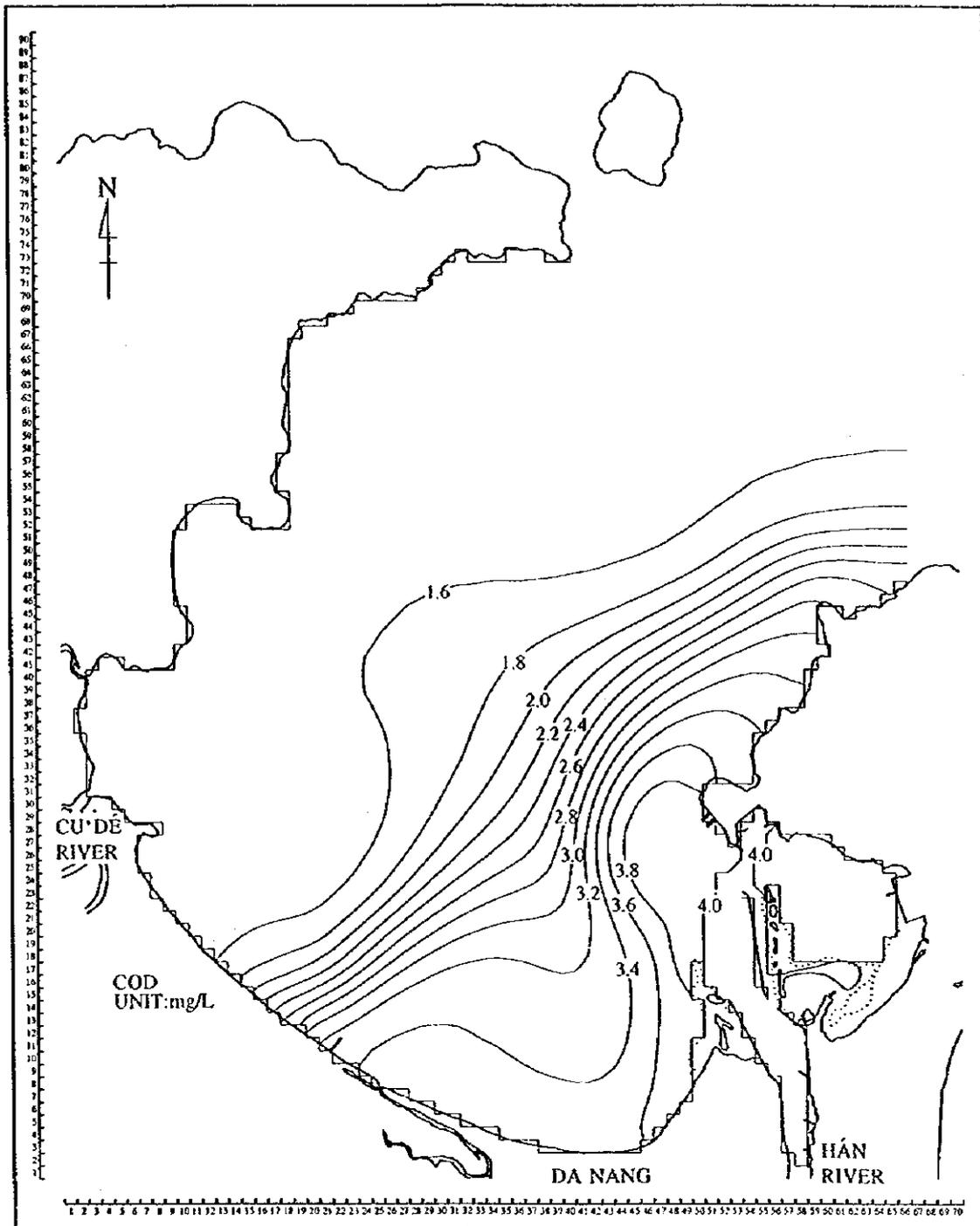
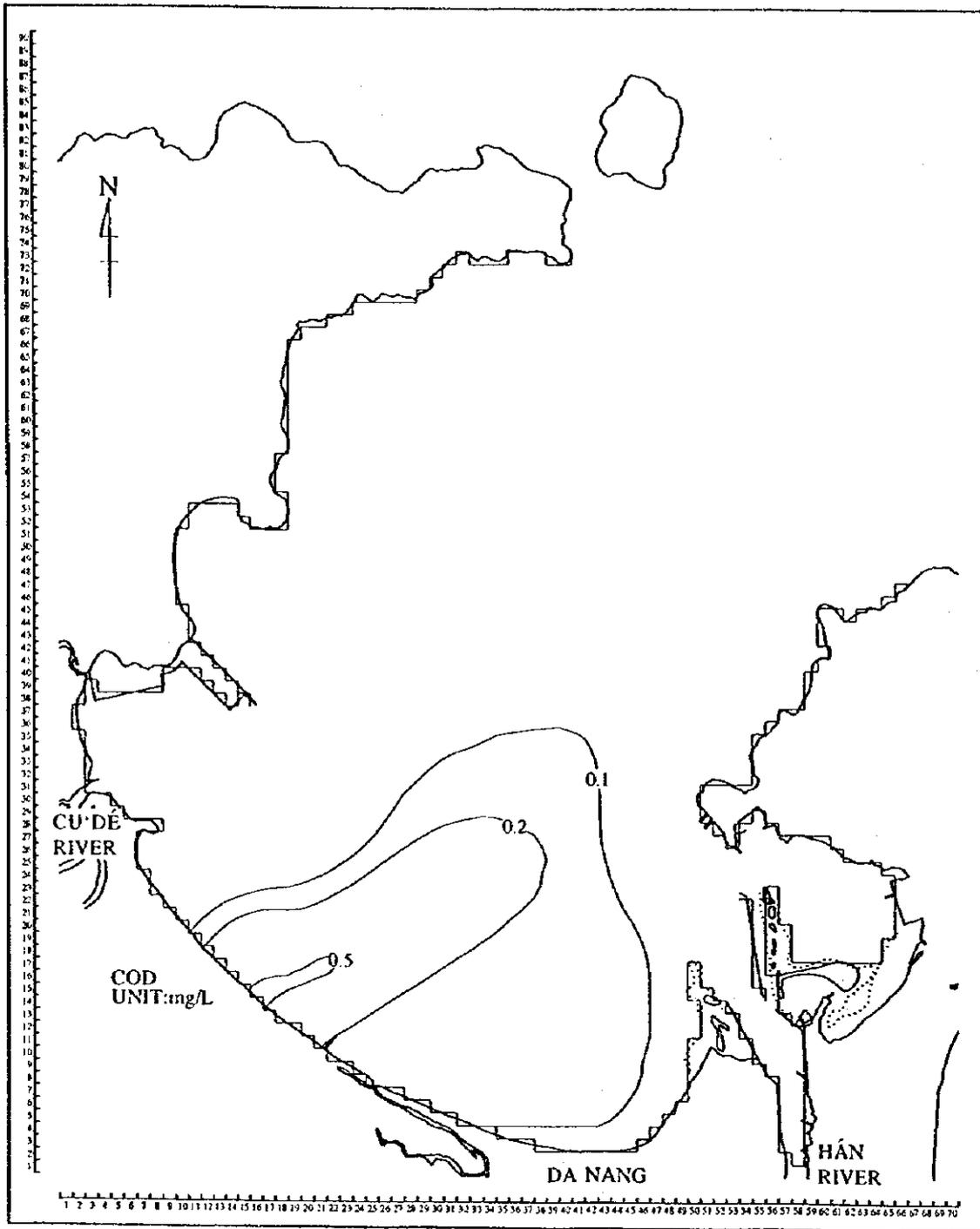
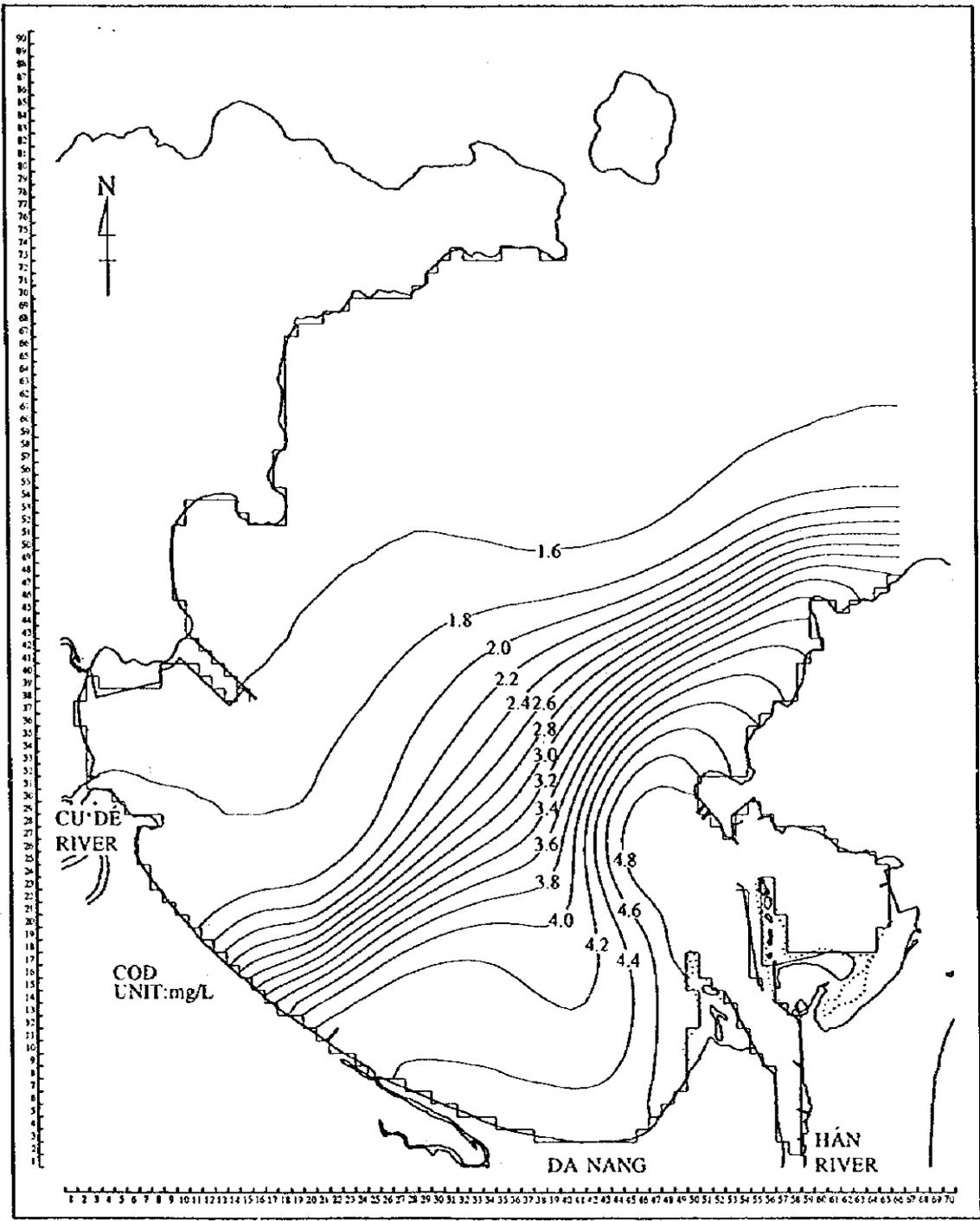


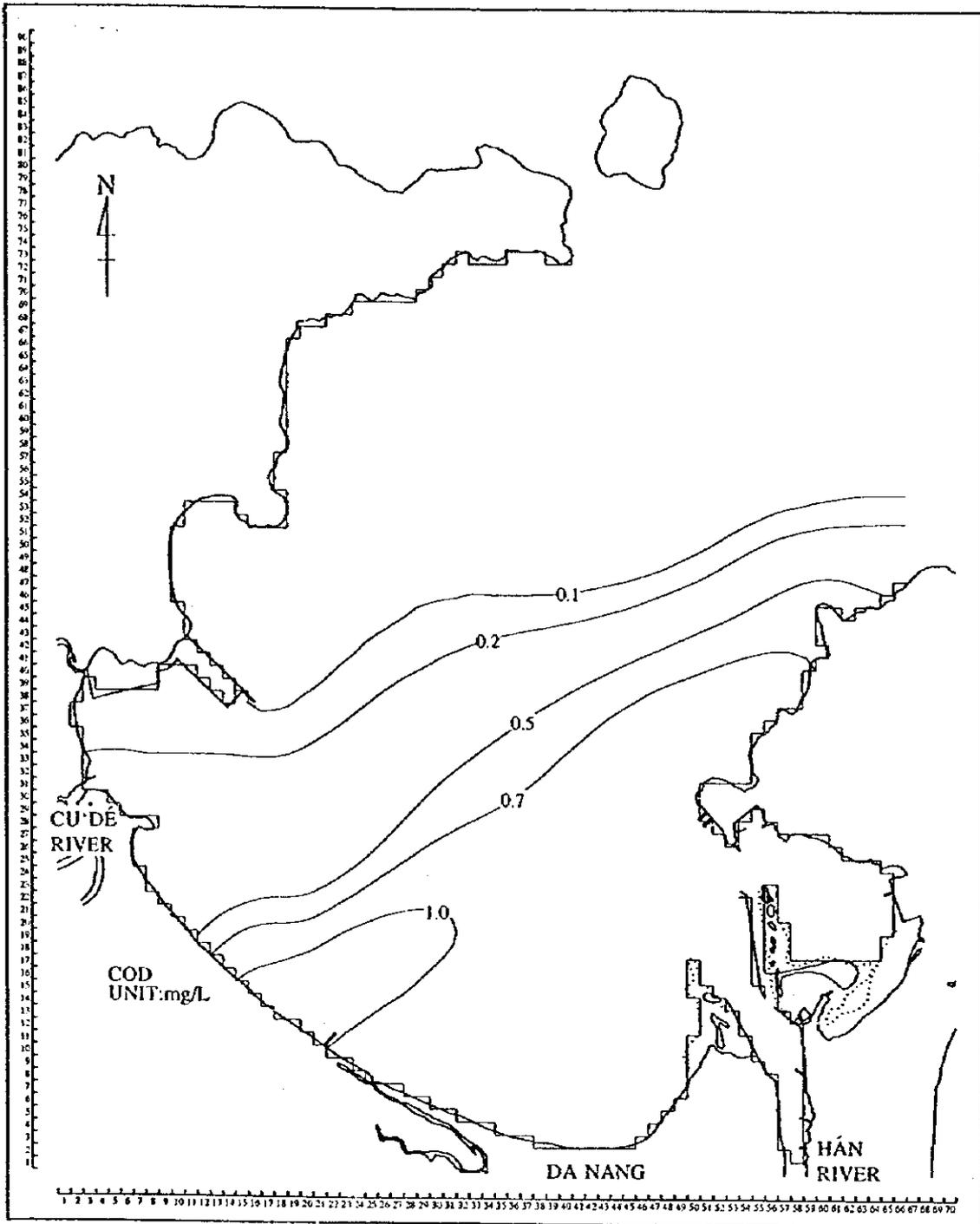
Figure A15.4.26 Daily mean concentration of C.O.D.(Present Situation)



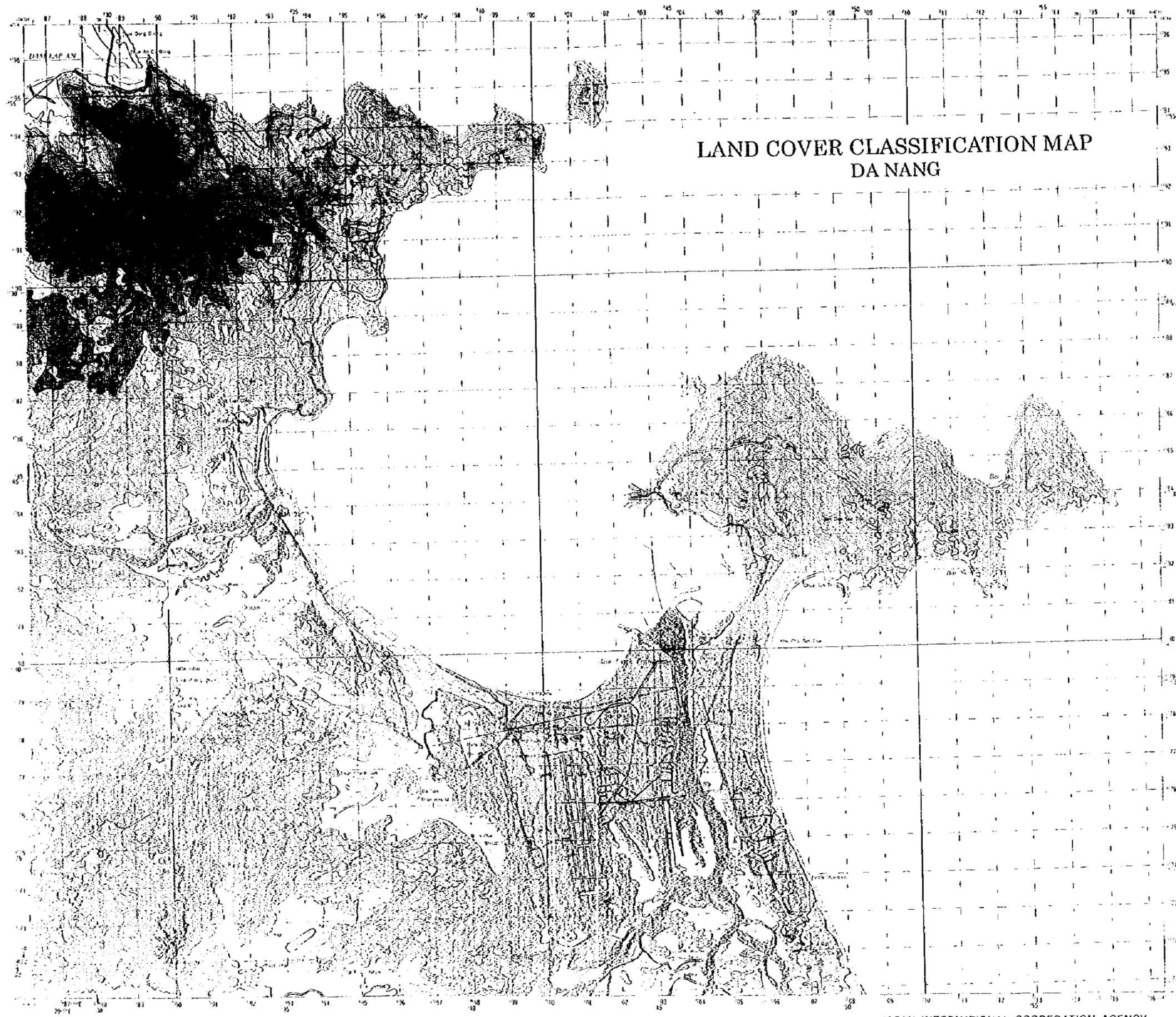
**Figure A15.4.27 Increase in daily mean concentration of C.O.D.
(Resulted from the development of new port)**



**Figure A15.4.28 Daily mean concentration of C.O.D.
(Resulted from population increase)**



**Figure A15.4.29 Increase in daily mean concentration of C.O.D.
(Resulted from population increase)**



LAND COVER CLASSIFICATION MAP DA NANG

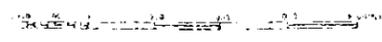
- LEGEND**
- Dense Forest
 - Clear Forest
 - Shrub/Grassland
 - Farmland/Village
 - Paddy Field/Swamp
 - Urban Area
 - Water Body
 - Bare Ground

This map was completed in May 1997, based on the interpretation of satellite images in the following table:

NO.	Scale No.	Date of Data Collection
01	4277-1119	Jan 29, 1995

CONTOUR INTERVAL--20 METERS
SUPPLEMENTARY CONTOURS TO METERS

SPIEROID EVEREST
GRID UTM METERS/M ZONE 49
PROJECTION TRANSVERSE MERCATOR
VERTICAL DATUM MEAN SEA LEVEL AT HATIEH



JAPAN INTERNATIONAL COOPERATION AGENCY
Overseas Coastal Area Developmental Institute of Japan
Japan Port Consultants, Ltd (May, 1997)

JICA