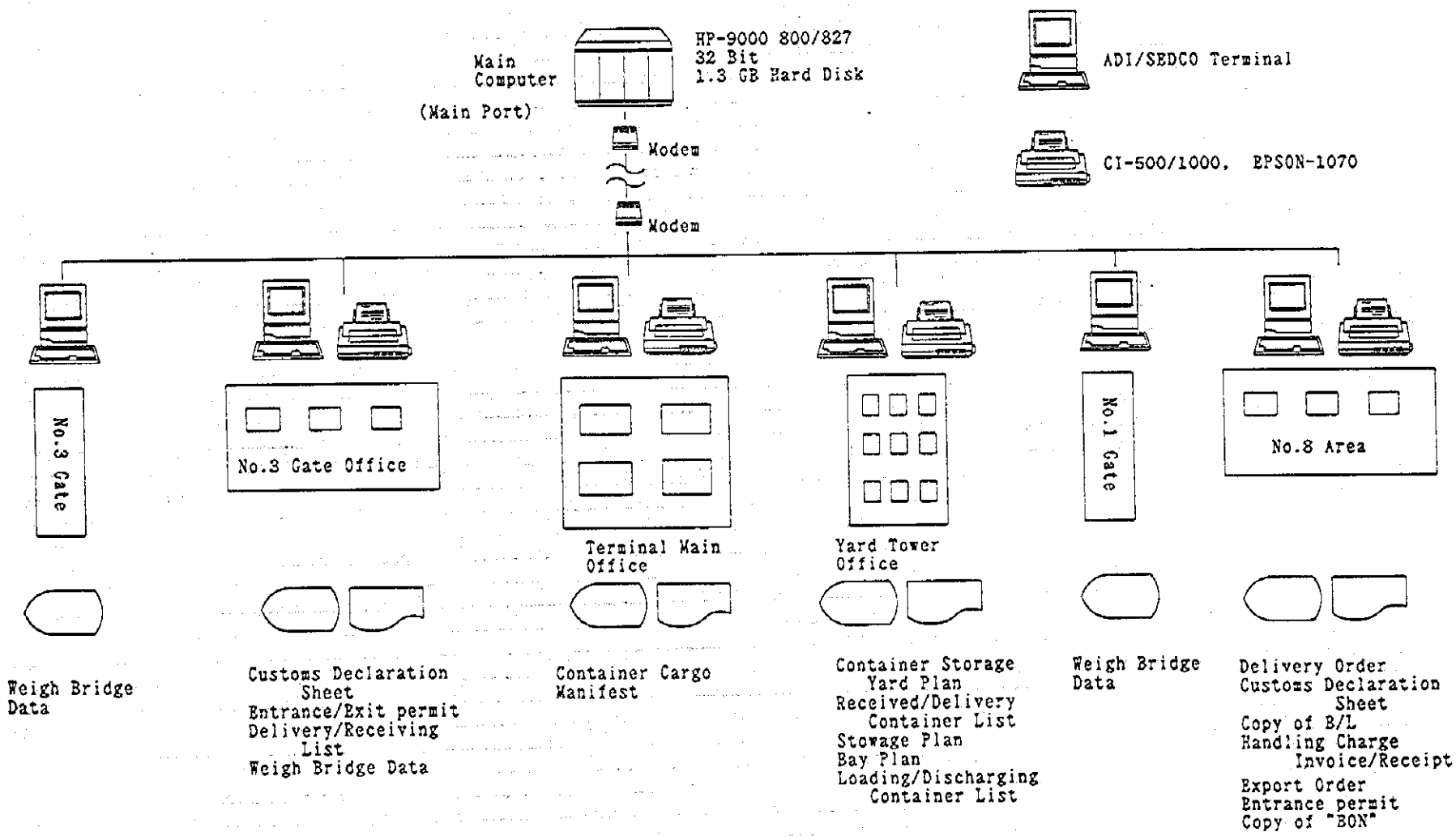
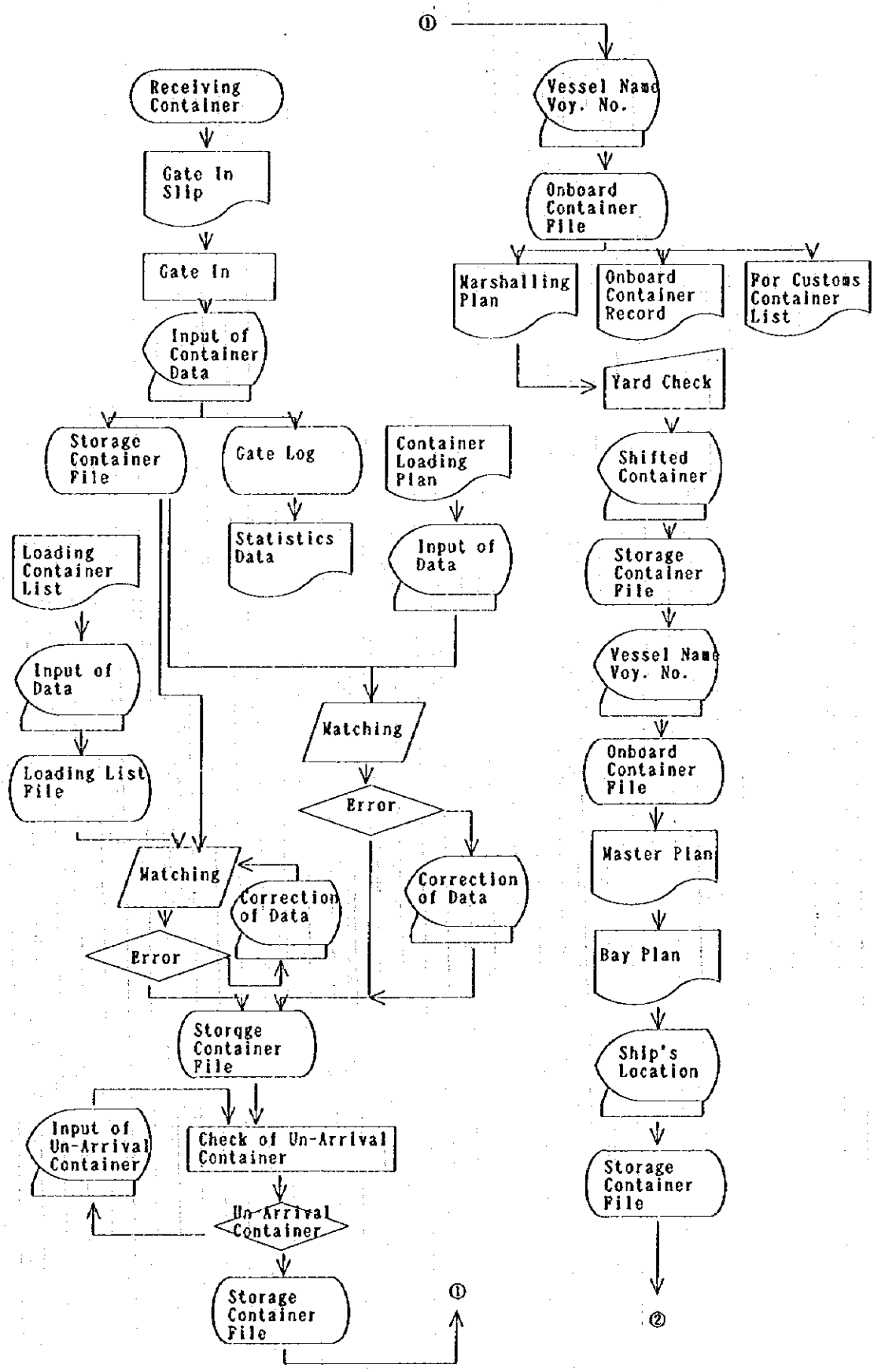
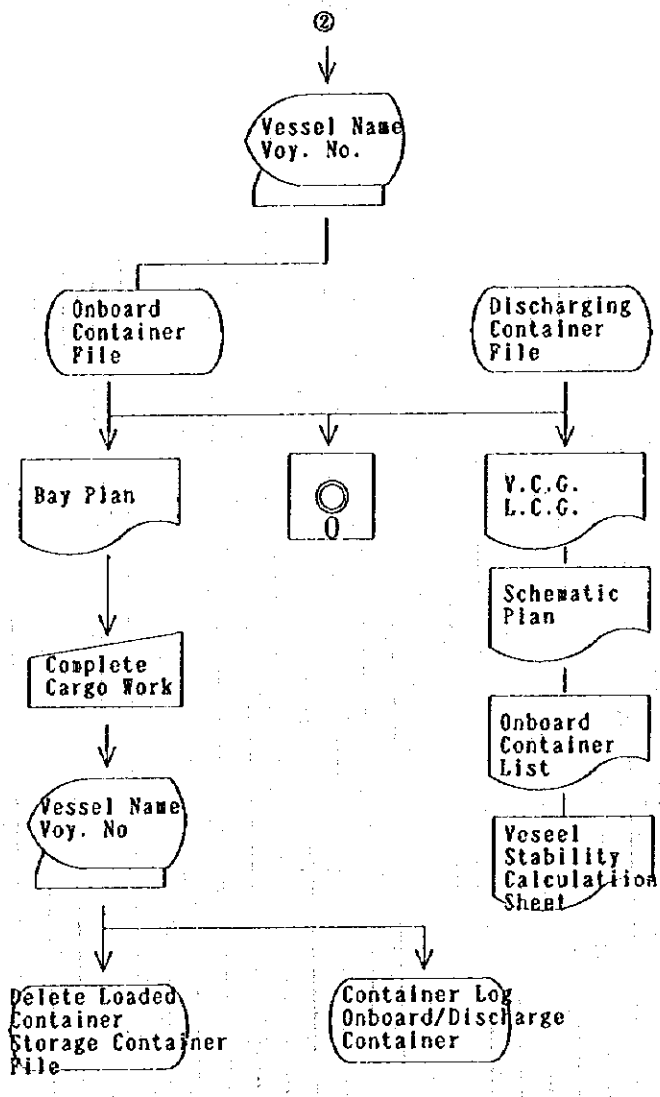


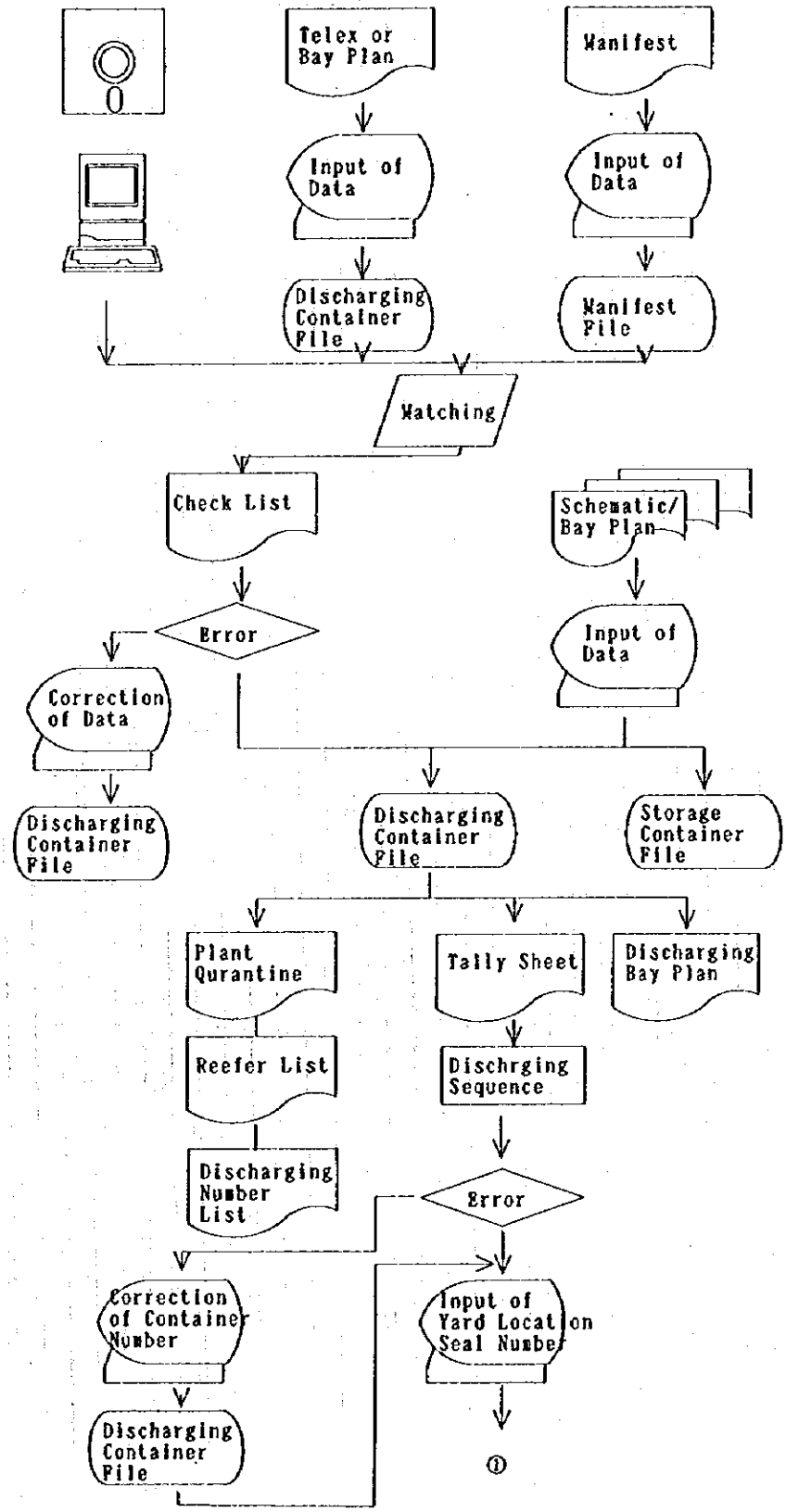
Appendix 5.6.7 Computer System of Current Container Terminal



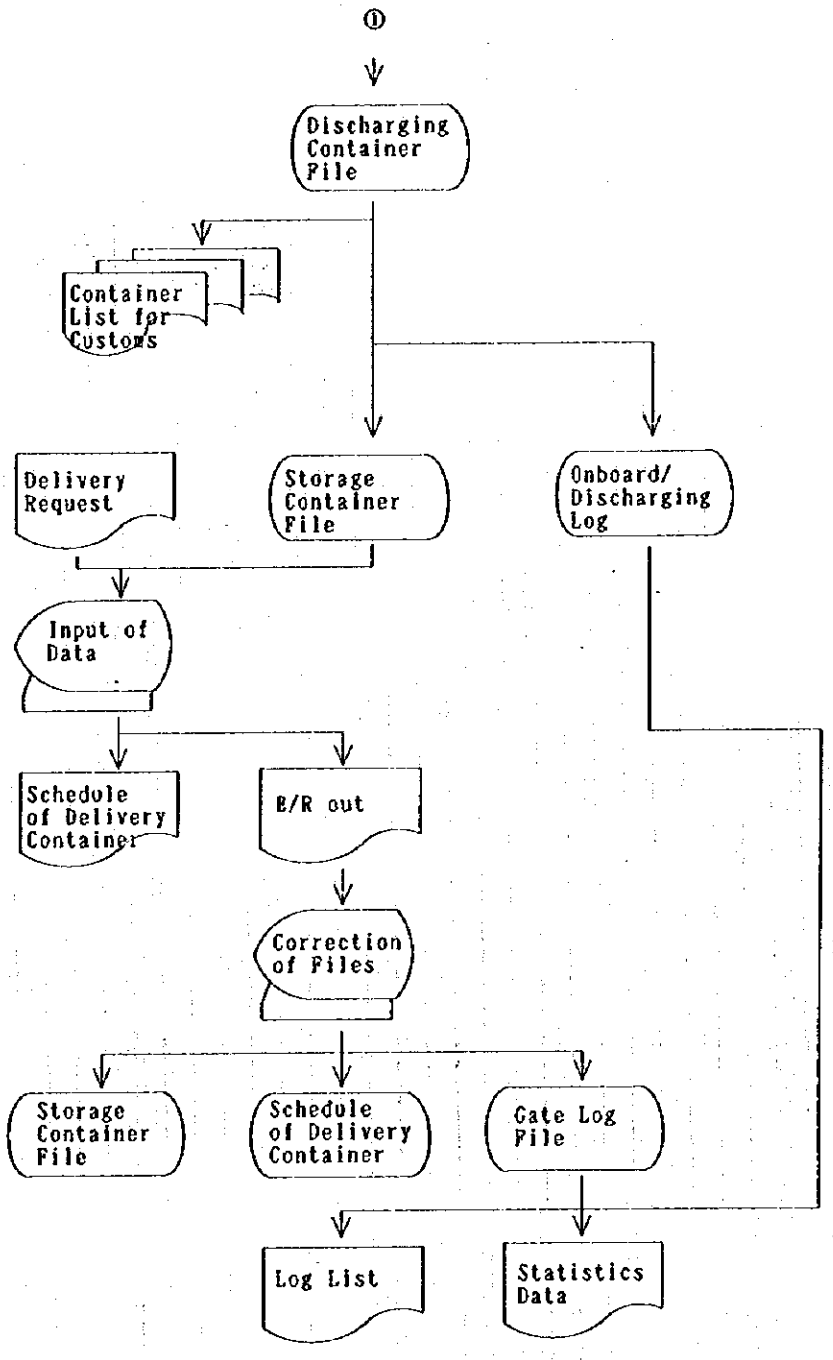
Appendix 5.6.8(1) Flow Chart of Container Export



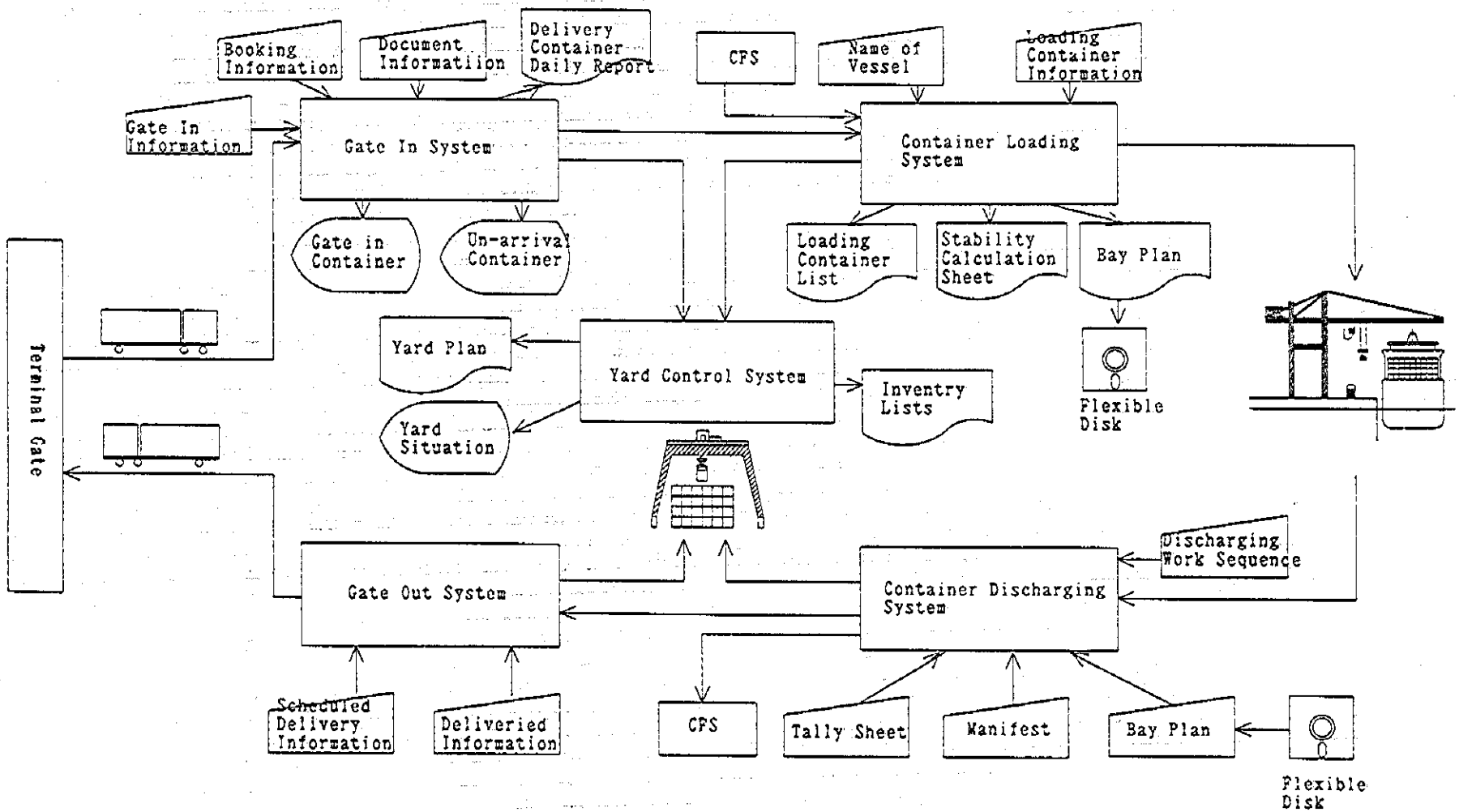
Appendix 5.6.8(2) Flow Chart of Container Export



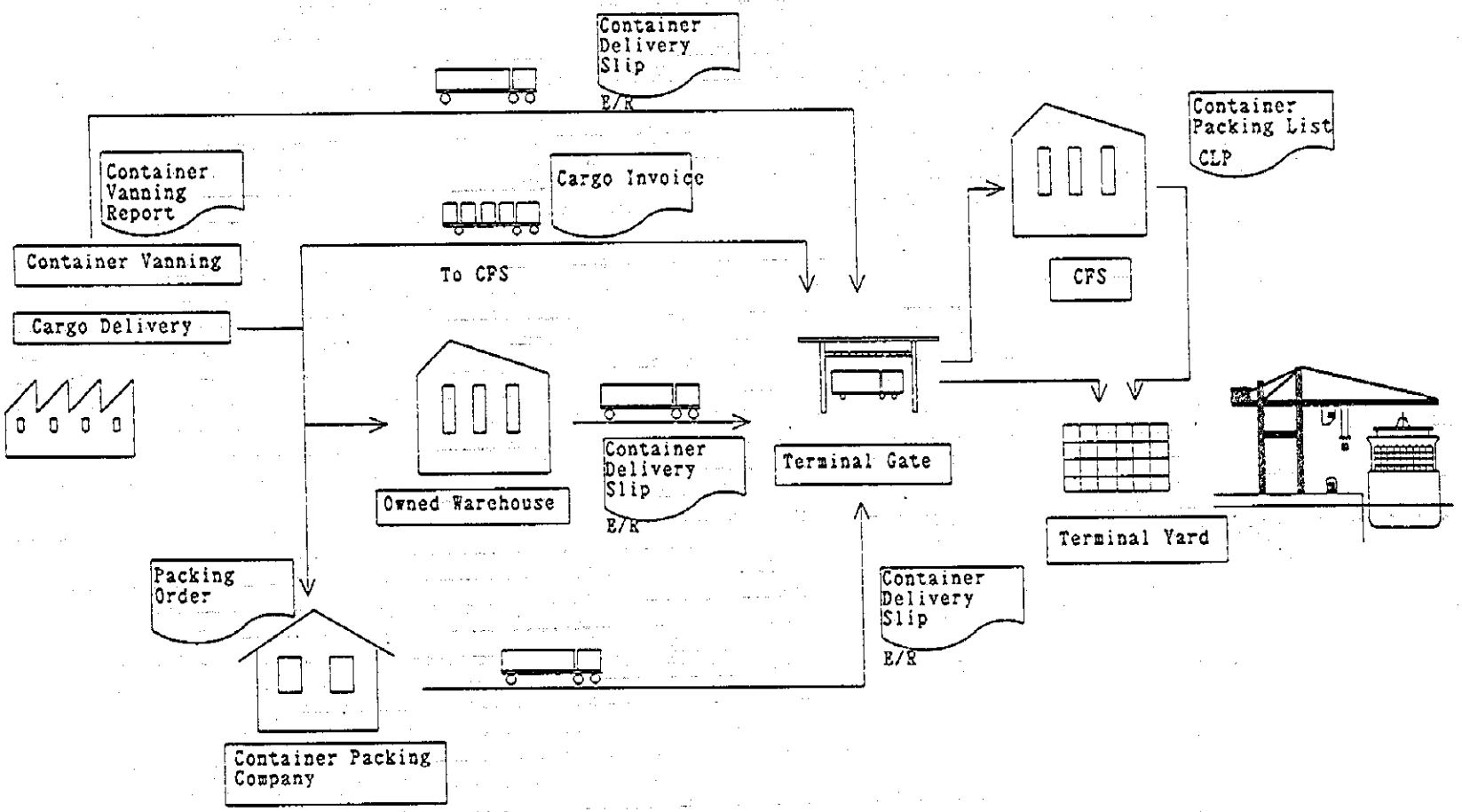
Appendix 5.6.9(1) Flow Chart of Modern Container Terminal (Import)



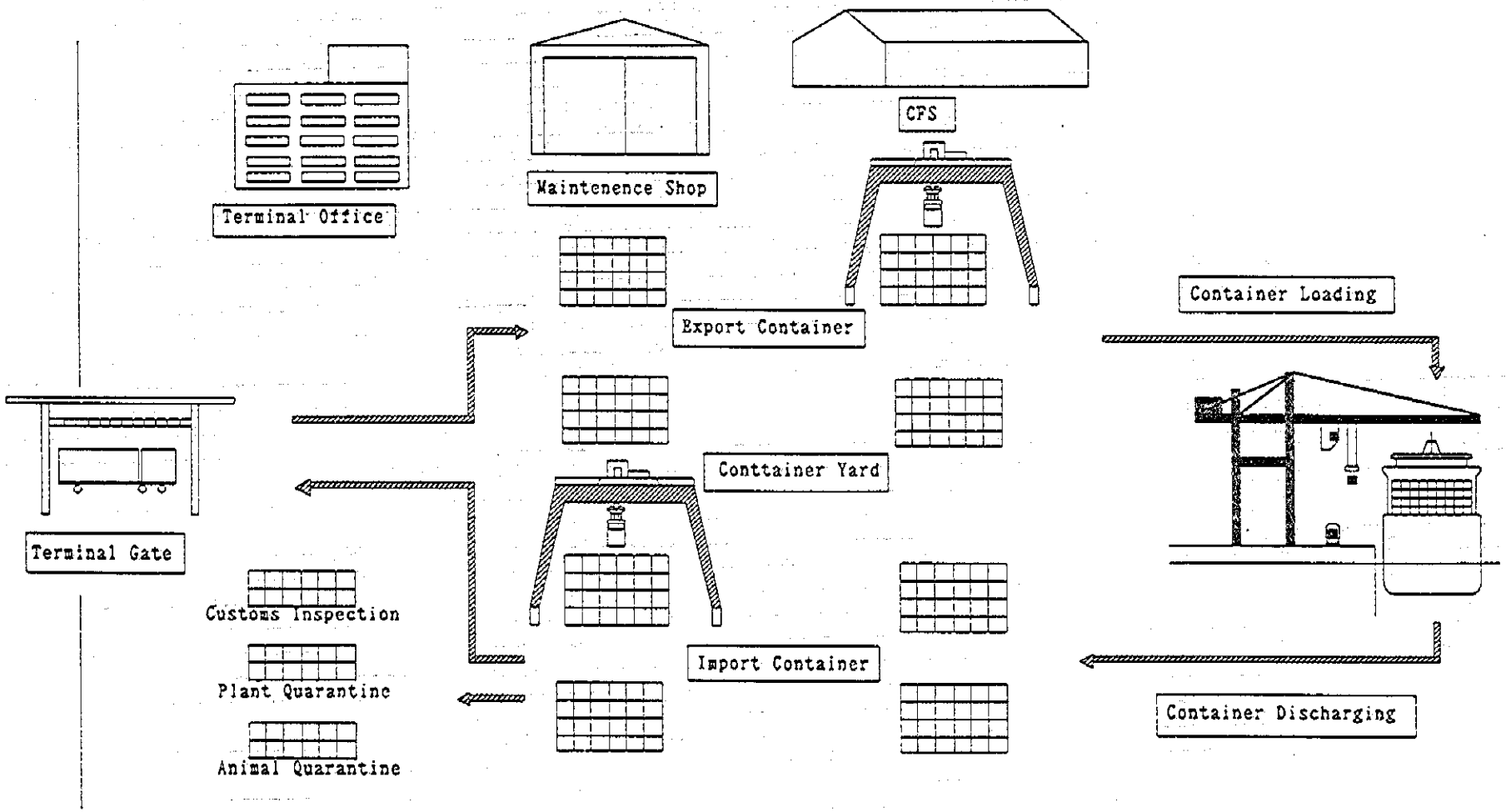
Appendix 5.6.9(2) Flow Chart of Computerized Container Terminal (Import)



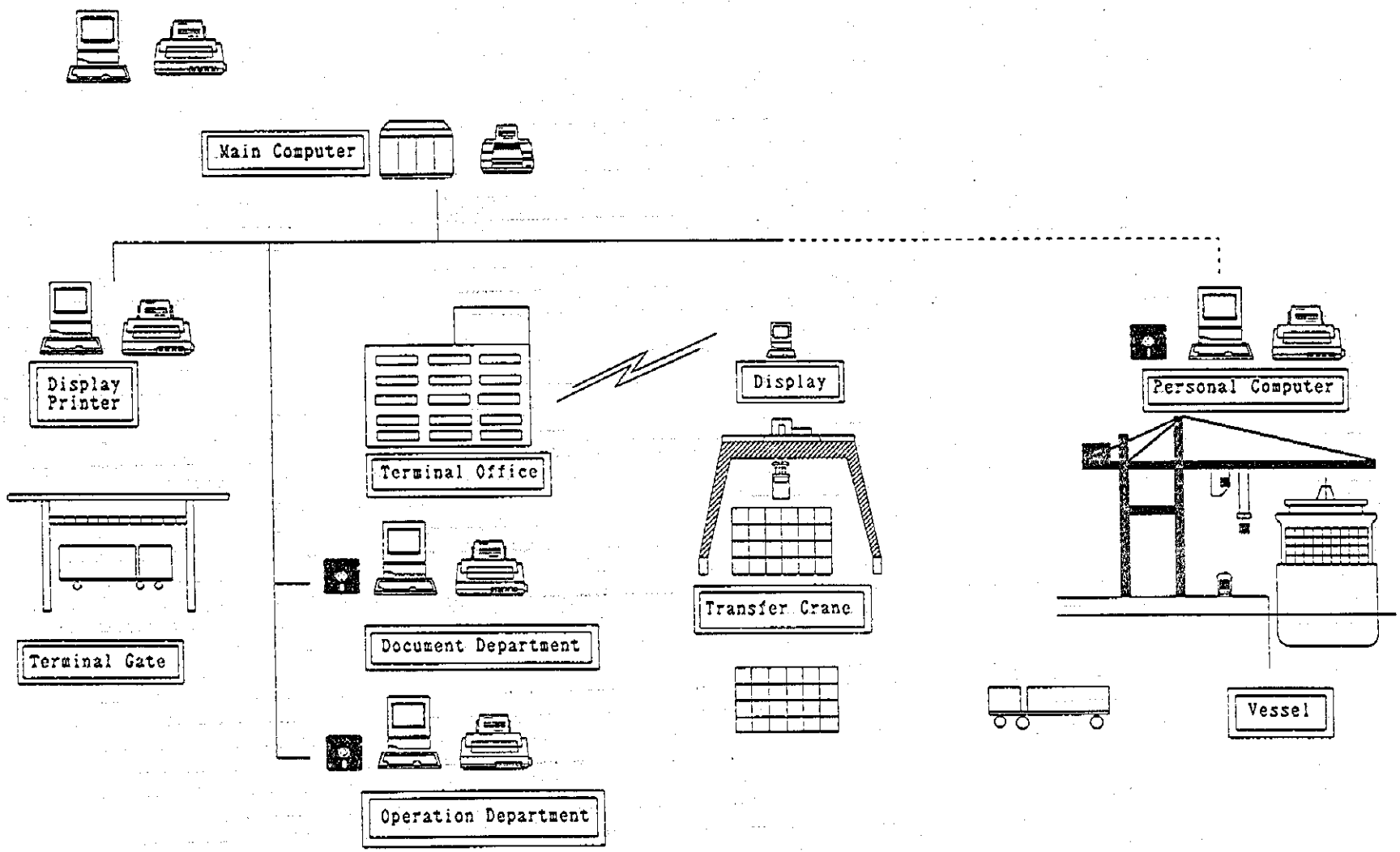
Appendix 5.6.10 Container Terminal System



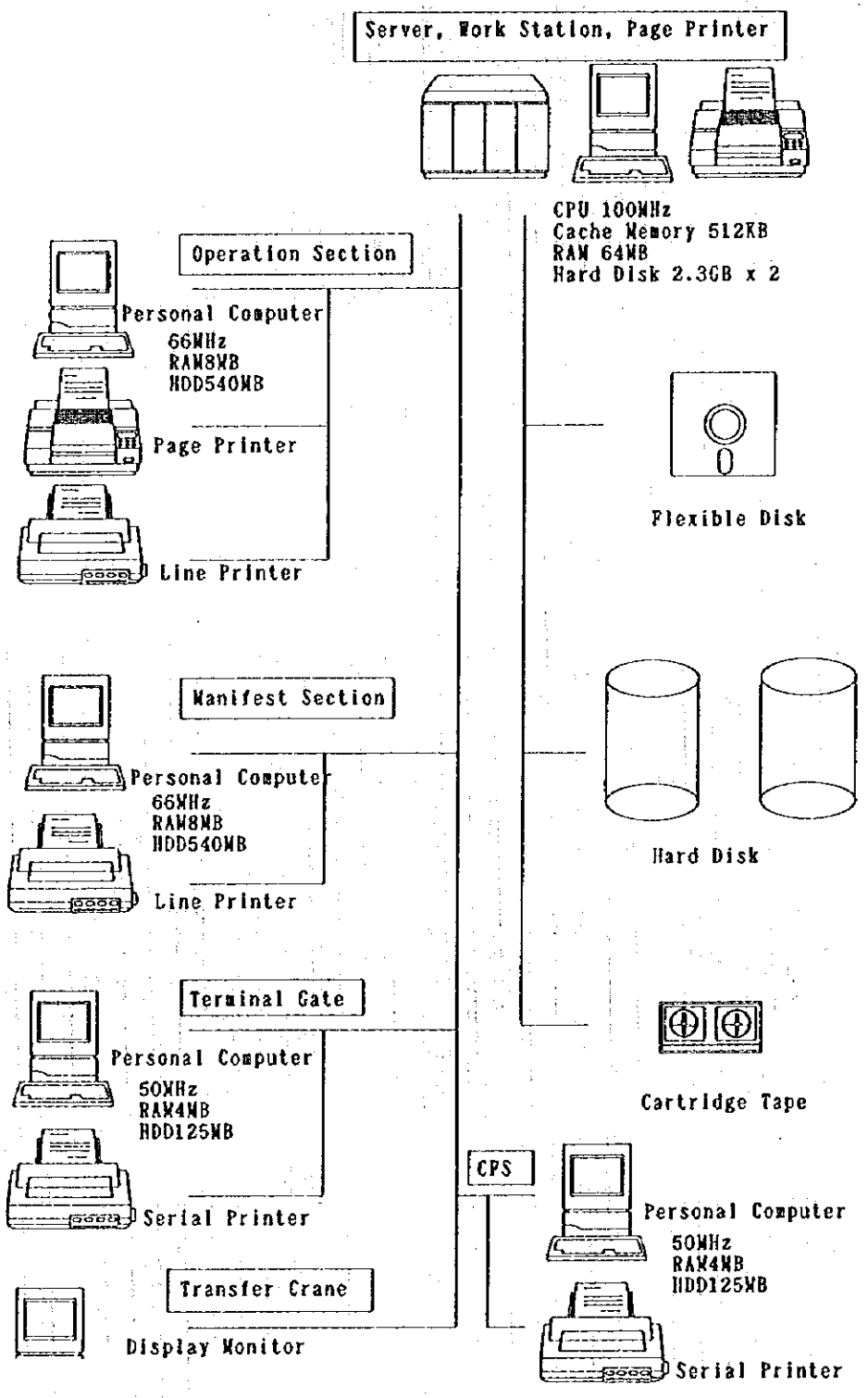
Appendix 5.6.11 Document Information of Export Container



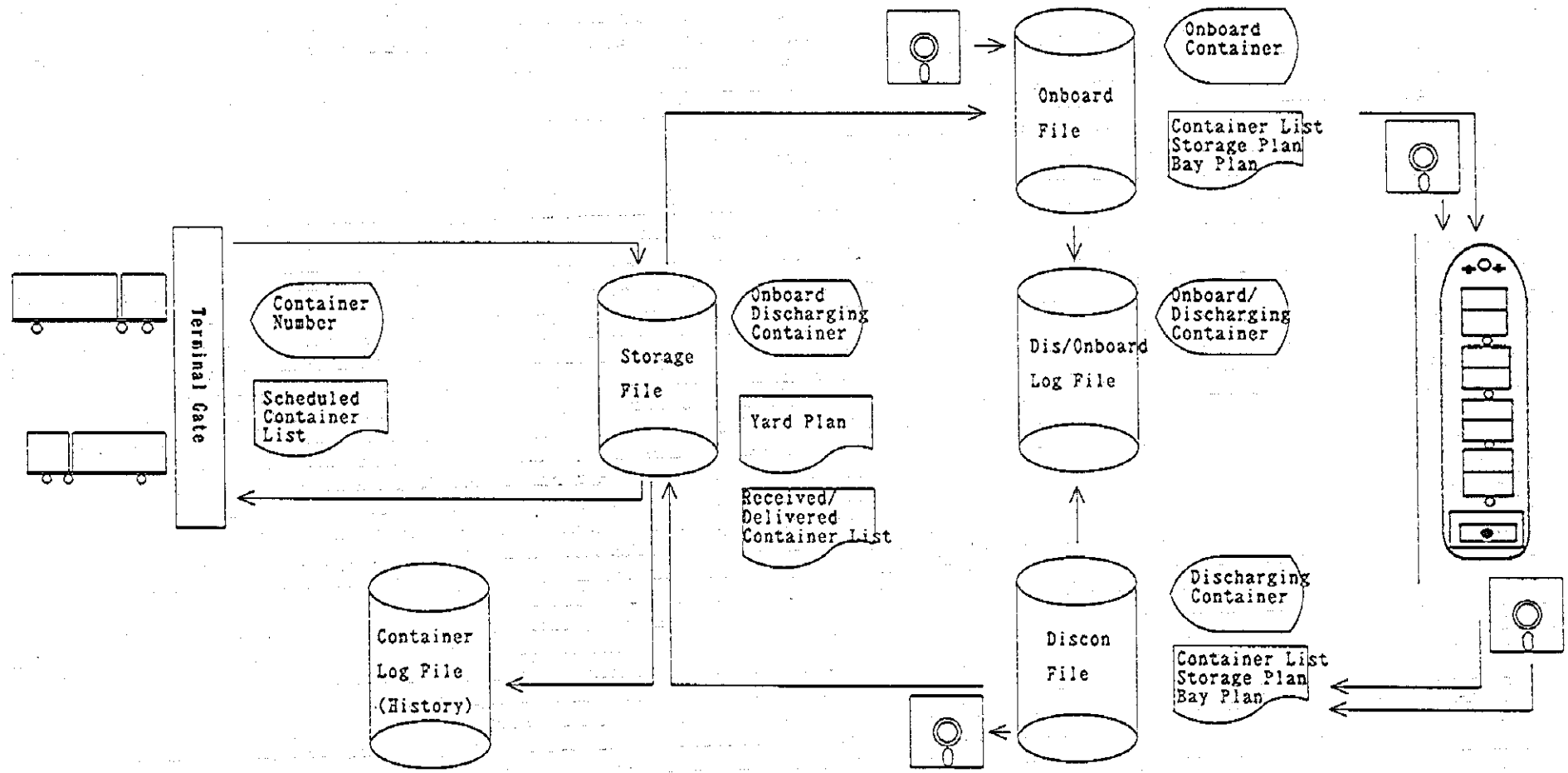
Appendix 5.6.12 Container Flow at Container Terminal



Appendix 5.6.13 Computer System of Container Terminal



Appendix 5.6.14 System Diagram of Hard Ware



Appendix 5.6.15 Computer File System

Appendix 5.6.16 Equipment Interchange Receipt

(機器受取書)

BOOKING NO.	

IN/OUT	OPERATOR (船 会 社)	PLACE OF RECEIPT/DELIVERY (搬出入場所)

CARRIER RECEIVED FROM/DELIVERED TO (搬出入者)	DATE AND TIME (搬出入日時)
	Y Y M M D D – H H M M

CONTAINER NO. (コ ン テ ナ 番 号)	TYPE	LENGTH	HEIGHT	GROSS WT(KT)

STATUS (状 態)	PURPOSE OF GATE-IN/GATE-OUT (搬出入目的)	
LOADED (実 入) / EMPTY (空)	[1] FROM/TO SHIPPER CONSIGNEE (荷主より / 荷主向け)	[6] FROM/TO LEASING CO. (リース会社より / リース会社向け)
[ ] DAMAGED (損傷)	[2] FROM/TO CFS (CFSより / CFS向け)	[7] FROM/TO SHIPPING CO. (船社より / 船社向け)
SEAL NO. (シール番号)	[3] EMPTY POSITIONING (空バン 転送)	[8] REPAIRED REPAIR (修理完了 修理)
CHASSIS/BOGIE NO. (シャーシ・ボギー番号)	[4] IMPORT FEEDER (輸入フィーダ 転送)	[0] OTHERS ( )
	[5] EXPORT FEEDER (輸出フィーダ 転送)	

PARTY (荷主名, 修理業者, その他)	PLACE OF DEPARTURE/DESTINATION (出発地/仕向地)

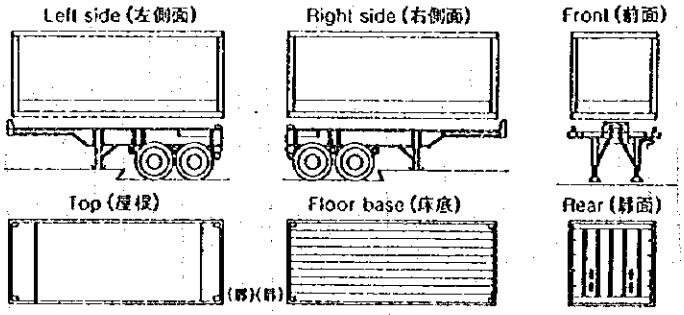
SCHEDULED PLACE OF RETURN (返却予定場所)	SCHEDULED RETURN DATE (返却予定日)	RETURN STATUS (返却状態)
	Y Y M M D D	[ ] LOADED (実入) [ ] EMPTY (空)

SCHEDULED LINE, VESSEL VOY. (船積予定航路, 船名, 次航)	PORT OF DESTINATION (揚予定港)
VESSEL VOYAGE	

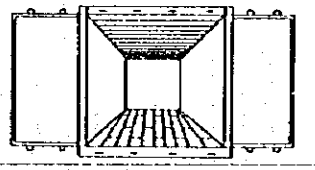
INSPECTION AT THE TIME OF RECEIPT/DELIVERY
(搬 出 入 時 検 査 内 容)

CONTAINER CONDITION (コンテナの状態)				CHASSIS/BOGIE (シャーシー/ボギー)	REEFER UNIT (冷 凍 装 置)	REEFER TEMPERATURE (冷 凍 温 度)
DAMAGE (損傷) 関係		CLEANING (クリーニング) 関係				
SOUND (正常)	DEFECTIVE (異常)	CLEAN	TO BE CLEANED			
[ ] 修理不要	[ ] 仮修理済 [ ] 小修理必要 [ ] 中修理必要 [ ] 大修理必要	[ ] 正常 (クリーニング不要)	[ ] 清掃 [ ] 水洗い [ ] 温水洗浄 [ ] 化学洗浄	[ ] SOUND (正常) [ ] DEFECTIVE (異常)	[ ] SOUND (正常) [ ] DEFECTIVE (異常)	SETTING (設定) ____ [ ]°C [ ]°F PRESENT (現在) ____ [ ]°C [ ]°F

CONTAINER/CHASSIS OUTSIDE (コンテナ/シャーシー外面)



CONTAINER INSIDE (コンテナ内面)



Mark clearly all damages or deficiencies found by symbol. (発見された全ての損傷または欠損を下記の略号を使って明白に記入して下さい。)
C-Cut(切傷), B-Bruise(スリ傷)
H-Hole(穴あき), D-Dent(凹損)
BR-Broken(破損), M-Missing(紛失)

DRIVER'S SIGNATURE (運転者署名)	REMARKS (摘要)

DRIVER (1)

Note: tick ✓ the box ([ ]) applicable ([ ]ワクの該当箇所に✓印をつけて下さい)

Appendix 5.6.17 Container List

95/10/04 分　搬 出 予 定 コ ン テ ナ リ ス ト　（ゲート用）　10/03/95 PAGE. 9

	NO.	対	搬	CONT/NO.	YARD/LOC.	PQ.	OP.	F/W NAME	VSL.	VOY.	DEVANNING PLACE	E/R NO.	B/L NO.	
	225			TRIU2965772	G-22-03-2	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 054	BUNAC703	*
	226			TRIU2981238	G-22-04-1	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 050	BUNAC712	
	227			NLLU6668030	G-22-03-1	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 053	BUNAC751	*
	228			KNLU3236844	G-22-06-3	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 056	BUNAC752	*
D	229			TRIU2282415	G-22-06-2	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 058	PTQAA680	*
	230			GSTU4492060	G-26-05-1	S	ND	DAIDO TRANS PLANET	NLC	7502A	HONMOKU FUTO	G 052	BUNAC751	*
	231			KNLU3346338	B-05-06-1		ND	GOKO UNYU	NLC	7502A	KANAZAWA-KU	B 397	MECAA279	
	232			INBU3351163	B-05-05-1		ND	MITSUI SOKO	NLC	7502A	MITSUI DAIKOKU	B 437	MECAA282	
	233			TRLU4207930	B-17/18-01-2		ND	MITSUI SOKO	NLC	7502A	MITSUI DAIKOKU	B 494	BUNAC692	
	234			KNLU4295960	B-17/18-01-1		ND	MITSUI SOKO	NLC	7502A	MITSUI DAIKOKU	B 438	MECAA282	*
	235			CAXU2254728	B-13-05-3	Y	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	B 431	BUNAC745	
	236			TEXU3549502	B-13-06-3	C	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	B 433	BUNAC697	
	237			KNLU2130909	B-14-06-3	C	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	B 432	BUNAC745	*
D	238			KNLU3238903	B-14-06-2	C	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	B 436	BUNAC695	
	239			TRIU1703145	B-14-01-1	C	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	B 435	BUNAC697	*
	240			INBU3010866	C-18-03-2	Y	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	C 781	BUNAC745	*
	241			TOLU2981746	G-04-04-2	S	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	G 039	BUNAC713	
	242			KNLU3084557	G-22-02-1	S	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	G 040	BUNAC695	*
	243			KNLU2936875	G-26-06-1	S	ND	MITSUI SOKO	NLC	7502A	MITSUI CHIWAKACHO	G 038	BUNAC745	*
	244			ICSU1816521	B-17/18-03-1		ND	NIHON KAIRIKU	NLC	7502A	TOKYO-TO NAI	B 460	BUNAC694	
	245			CAXU2262929	G-26-01-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	G 090		
R	246			LPIU5706518	H-12-05-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	H 333		
	247			KNLU3273740	X-10-06-2		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 830		
	248			NLLU6683414	X-10-07-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 836		
	249			KNLU3195463	X-10-06-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 837		
	250			KNLU3364373	X-10-05-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 838		
	251			MLCU2118357	X-10-04-1		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 839		
	252			KNLU3280190	X-10-05-2		ND	SUMITOMO SOKO	NNO	1405	OHI NO.4 CY	X 840		

5.12 Financial Analysis

Appendix 5.12.1 Maximum Cargo Handling Volume in With Case

Berth	Name	Cargo	① Max. Cargo Handling Vol.	Year	② Ave. Cargo Vol./Ves.	③=①/② Calling Vessels	④ Ton/Day	⑤=②/④ Operation Days	⑥ Other Days	⑦=⑤+⑥ Berthing Days/Ves.	⑧=③x⑦ Berthing Days	⑨=⑧/351/0.7 Number of Berth
			(1,000Ton)									
(-10m)170m*3	New B.1,2,4											
(-12m)240m*1	New B.3	General	3,330	2010	3,500	951	3,000	1.17	0.10	1.27	1,205	4.90
(-7.8m)150m*1	New B.5	Cargo										
(-14m)280m*1	New Grain B.	Grain	2,010	2010	40,000	50	9,677	4.13	0.20	4.33	218	0.89
(-11m)210m*1	New Oil B.	Veg. Oil	400	2010	16,000	25	6,451	2.48	0.15	2.63	66	0.27
(-15m)280m*1	Pho. B	Phosphate	7,370	2010	55,000	134	53,760	1.02	0.15	1.17	157	0.64
(-13m)300m*2	New Co.1,2	Container	2,070	2005	(*1) Maximum Cargo Handling Volume is calculated by capacity of gantry crane							
(-15m)280m*1	Mo'ta	Rice	745	2010	18,000	41	6,720	2.68	0.20	2.88	119	0.48
(-15m)280m*1	Al-Mushtarak	Cemment	700	2010	20,000	35	5,376	3.72	0.20	3.92	137	0.56
(-11m)190m*1	JFI-East	L.Ammonia	418	2006	20,000	21	9,140	2.19	0.15	2.34	49	0.20
(-15m)219m*1	JFI-West	Phos. Acid	1,300	2006	20,000	65	7,526	2.66	0.15	2.81	182	0.74
(-15m)230m*1	JFI-North	Others	5,420	2006	20,000	271	20,160	0.99	0.10	1.09	296	1.20
		Sulfur	1,280	2006	20,000	64	6,720	2.98	0.15	3.13	200	0.81
		Total	8,418			421		8.81	0.55	9.36	727	2.96
(-25m)150m*1	Oil Jetty	Fuel Oil	720	2010	25,000	29	20,000	1.25	0.15	1.40	40	0.16
		Mineral Oil	1,140	2010	20,000	57	6,048	3.31	0.15	3.46	197	0.80
		Total	1,860			86		4.56	0.30	4.86	237	0.97
(-15m)220m*1	New JFI-1	Livestock	110	2010	300	367	860	0.35	0.15	0.50	183	0.74

(*1) Capacity of Gantry Crane
103,488 TEU / set * 3 sets = 310,464 TEU = 2,070 (1,000Ton) Until 2005
114,988 TEU / set * 3 sets = 344,964 TEU = 2,303 (1,000Ton) After 2010

Appendix 5.12.2 Maximum Cargo Handling Volume in Without Case

Berth	Name	Cargo	① Max. Cargo Handling Vol.	Year	② Ave. Cargo Vol./Ves.	③=①/② Calling Vessels	④ Ton/Day	⑤=②/④ Operation Days	⑥ Other Days	⑦=⑤+⑥ Berthing Days/Ves.	⑧=③x⑦ Berthing Days	⑨=⑧/351/0.7 Number of Berth
			(1,000Ton)									
(-11.5~13.4m)												
180m*5	Berth 2-6	General	3,330	2010	3,500	951	3,000	1.17	0.10	1.27	1,205	4.90
(-8.0m)150m*1	Berth 7	Cargo										
(-11m)160m*1	Berth 1	Grain	1,780	2005	40,000	45	8,367	4.78	0.70	5.48	244	0.99
(-11m)220m*1	Phosphate A	Veg. Oil	400	2010	16,000	25	6,451	2.48	0.15	2.63	66	0.27
(-15m)280m*1	Phosphate B	Phosphate	7,370	2010	55,000	134	53,760	1.02	0.15	1.17	157	0.64
(-15~20m)	Container											
180m*3	1,2,3	Container	1,229	1998	(*1) Maximum Cargo Handling Volume is calculated by capacity of gantry crane							
(-21m)150m*1	Mo'ta	Rice	745	2010	18,000	41	6,720	2.68	0.20	2.88	119	0.48
(-12m)120m*1	Al-Mushtarak	Cemment	700	2010	20,000	35	5,376	3.72	0.20	3.92	137	0.56
(-11m)190m*1	JFI-East	L.Ammonia	233	1998	20,000	12	9,140	2.19	0.15	2.34	27	0.11
		Phos. Acid	405	1998	20,000	20	7,527	2.66	0.15	2.81	57	0.23
(-15m)219m*1	JFI-West	Others	3,851	1998	20,000	193	20,160	0.99	0.10	1.09	210	0.86
		Sulfur	589	1998	20,000	29	6,720	2.98	0.15	3.13	92	0.37
		Total	5,078			254		8.81	0.55	9.36	386	1.57
(-24m)150m*1	Oil Jetty	Fuel Oil	720	2010	25,000	29	20,000	1.25	0.15	1.40	40	0.16
		Mineral Oil	1,140	2010	20,000	57	6,048	3.31	0.15	3.46	197	0.80
		Total	1,860			86		4.56	0.30	4.86	237	0.97
(-7m)80m*1	JFI-1	Livestock	90	2003	300	300	602	0.50	0.30	0.80	240	0.97

(*1) Capacity of Gantry Crane
91,990 TEU / set * 2 sets = 183,980 TEU = 1,229 (1,000Ton) Until 2000
103,488 TEU / set * 2 sets = 206,976 TEU = 1,380 (1,000Ton) Until 2005
114,988 TEU / set * 2 sets = 229,976 TEU = 1,536 (1,000Ton) After 2010

Appendix 5.12.3 Revenue in With Case

(Unit : 1,000 Vessels, Ton, Passenger, JD)

Charge		1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Ship Service	Calling Ve.	2,695	2,792	2,902	3,040	3,148	3,256	3,365	3,418	3,435	3,453	3,476	3,490	3,499	3,508	3,512	3,517	3,540
Charge	Revenue	3,699	3,832	3,983	4,172	4,321	4,470	4,618	4,692	4,715	4,740	4,771	4,790	4,803	4,815	4,821	4,827	4,858
Stevedoring	Cargo Vol. (1)	4,285	5,442	6,598	7,733	8,009	8,353	8,706	9,095	9,373	9,667	9,965	10,195	10,448	10,700	10,953	11,205	11,458
Charge	Revenue	6,297	7,997	9,696	11,364	11,770	12,275	12,794	13,366	13,774	14,206	14,644	14,982	15,353	15,724	16,096	16,467	16,838
Storage	Cargo Vol. (2)	2,854	3,431	4,007	4,216	4,325	4,477	4,618	4,786	4,867	4,958	5,083	5,179	5,291	5,403	5,516	5,628	5,740
Charge	Revenue	2,629	3,160	3,691	3,884	3,984	4,124	4,254	4,409	4,483	4,567	4,682	4,771	4,874	4,977	5,081	5,184	5,287
Container	Cargo Vol. (3)	682	865	1,047	1,175	1,269	1,383	1,517	1,665	1,784	1,914	2,009	2,070	2,117	2,163	2,210	2,256	2,303
Storage Char.	Revenue	345	437	530	594	642	700	767	842	902	968	1,016	1,047	1,071	1,094	1,118	1,141	1,165
Reefer Conta.	Cargo Vol. (3)	682	865	1,047	1,175	1,269	1,383	1,517	1,665	1,784	1,914	2,009	2,070	2,117	2,163	2,210	2,256	2,303
Charge	Revenue	260	330	399	448	484	527	578	635	680	730	766	789	807	825	842	860	878
Weight-bridge	Cargo Vol. (4)	8,110	10,004	11,898	13,133	13,509	13,953	14,406	14,795	15,173	15,567	15,965	16,195	16,528	16,860	17,193	17,525	18,828
Fee	Revenue	310	382	455	502	516	533	551	566	580	595	610	619	632	644	657	670	720
Other Service	Cargo Vol. (5)	3,558	4,341	5,123	5,463	5,669	5,938	6,216	6,535	6,738	6,952	7,185	7,345	7,507	7,668	7,830	7,991	8,153
Charge(*1)	Revenue	12,023	14,667	17,311	18,460	19,156	20,065	21,005	22,083	22,769	23,526	24,279	24,820	25,366	25,912	26,458	27,004	27,550
Phosphate	Cargo Vol. (6)	3,825	4,563	5,300	5,400	5,500	5,600	5,700	5,700	5,800	5,900	6,000	6,000	6,080	6,160	6,240	6,320	7,370
Service Fee	Revenue	6,642	7,923	9,203	9,377	9,551	9,724	9,898	9,898	10,072	10,245	10,419	10,419	10,558	10,697	10,836	10,974	12,798
Indust. Port	Cargo Vol. (7)	3,107	3,939	4,770	6,025	6,248	8,150	8,830	9,040	9,155	9,235	9,310	9,630	9,771	9,878	9,901	9,924	9,947
Service Fee	Revenue	4,274	5,418	6,562	8,288	8,595	11,211	12,147	12,435	12,594	12,704	12,807	13,247	13,441	13,588	13,620	13,651	13,683
Passenger	Number of Pa.	1,364	1,385	1,406	1,427	1,448	1,469	1,490	1,556	1,622	1,688	1,754	1,820	1,886	1,952	2,018	2,084	2,150
Service Fee	Revenue	924	938	952	967	981	995	1,009	1,054	1,099	1,143	1,188	1,233	1,278	1,322	1,367	1,412	1,456
TOTAL	Revenue	37,403	45,083	52,783	58,056	59,999	64,525	67,621	69,978	71,668	73,424	75,183	76,716	78,182	79,599	80,895	82,192	85,234

Note : Cargo Volume is shown in Appendix 5.12.6

Appendix 5.12.4 Revenue in Without Case

(Unit : 1,000 Vessels, Ton, Passenger, JD)

Charge		1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Ship Service	Calling Ve.	2,695	2,792	2,902	3,040	3,125	3,181	3,236	3,255	3,250	3,245	3,251	3,235	3,229	3,224	3,219	3,215	3,229
Charge	Revenue	3,699	3,832	3,984	4,173	4,289	4,366	4,442	4,467	4,460	4,455	4,463	4,441	4,432	4,425	4,418	4,413	4,433
Stevedoring	Cargo Vol. (1)	4,285	5,442	6,598	7,733	7,959	8,199	8,418	8,689	8,878	9,073	9,305	9,501	9,702	9,891	10,079	10,268	10,456
Charge	Revenue	6,297	7,997	9,696	11,364	11,711	12,049	12,371	12,769	13,047	13,333	13,674	13,962	14,258	14,535	14,812	15,089	15,366
Storage	Cargo Vol. (2)	2,854	3,431	4,007	4,216	4,325	4,477	4,618	4,786	4,867	4,958	5,083	5,179	5,258	5,324	5,391	5,457	5,523
Charge	Revenue	2,629	3,160	3,691	3,884	3,984	4,124	4,254	4,409	4,483	4,567	4,682	4,771	4,844	4,905	4,966	5,027	5,088
Container	Cargo Vol. (3)	682	865	1,047	1,175	1,229	1,229	1,229	1,259	1,289	1,320	1,350	1,380	1,411	1,442	1,474	1,505	1,536
Storage Char.	Revenue	345	437	530	594	622	622	622	637	652	668	683	698	714	730	745	761	777
Reefer Conta.	Cargo Vol. (3)	682	865	1,047	1,175	1,229	1,229	1,229	1,259	1,289	1,320	1,350	1,380	1,411	1,442	1,474	1,505	1,536
Charge	Revenue	260	330	399	448	469	469	469	480	492	503	515	526	538	550	562	574	586
Weight-bridge	Cargo Vol. (4)	8,110	10,004	11,898	13,133	13,469	13,799	14,118	14,389	14,678	14,973	15,305	15,501	15,782	16,051	16,319	16,588	17,826
Fee	Revenue	310	382	455	502	515	527	540	550	561	572	585	593	603	614	624	634	681
Other Service	Cargo Vol. (5)	3,558	4,341	5,123	5,463	5,629	5,784	5,928	6,129	6,243	6,368	6,525	6,651	6,761	6,859	6,956	7,054	7,151
Charge(*1)	Revenue	12,023	14,667	17,311	18,460	19,021	19,545	20,032	20,711	21,097	21,517	22,048	22,475	22,848	23,177	23,506	23,835	24,164
Phosphate	Cargo Vol. (6)	3,825	4,563	5,300	5,400	5,500	5,600	5,700	5,700	5,800	5,900	6,000	6,000	6,080	6,160	6,240	6,320	7,370
Service Fee	Revenue	6,642	7,923	9,203	9,377	9,551	9,724	9,898	9,898	10,072	10,245	10,419	10,419	10,558	10,697	10,836	10,974	12,798
Indust. Port	Cargo Vol. (7)	3,107	3,939	4,770	6,025	6,248	7,652	7,677	7,697	7,722	7,742	7,767	7,787	7,810	7,833	7,856	7,879	7,902
Service Fee	Revenue	4,274	5,418	6,562	8,288	8,595	10,526	10,561	10,588	10,622	10,650	10,684	10,712	10,743	10,775	10,807	10,838	10,870
Passenger	Number of Pa.	1,364	1,385	1,406	1,427	1,448	1,469	1,490	1,556	1,622	1,688	1,754	1,820	1,886	1,952	2,018	2,084	2,150
Service Fee	Revenue	924	938	952	967	981	995	1,009	1,054	1,099	1,143	1,188	1,233	1,278	1,322	1,367	1,412	1,456
TOTAL	Revenue	37,403	45,084	52,783	58,056	59,736	62,947	64,196	65,563	66,586	67,653	68,941	69,829	70,816	71,728	72,479	73,557	76,218

Note : Cargo Volume is shown in Appendix 5.12.6

Appendix 5.12.5 Difference between With Case and Without Case

(Unit : 1,000JD)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
With Case	37,403	45,083	52,783	58,056	59,999	64,625	67,621	69,978	71,668	73,424	75,183	76,716	78,182	79,599	80,895	82,192	85,234
Without Case	37,403	45,084	52,783	58,056	59,736	62,947	64,196	65,563	66,586	67,653	68,941	69,829	70,816	71,728	72,479	73,557	76,218
	0	0	0	0	263	1,678	3,425	4,415	5,082	5,771	6,242	6,888	7,366	7,871	8,417	8,635	9,016

Appendix 5.12.6 Relationship between Port Charges and Cargoes

No.		Phos.	Veg. Oil	Grain	Gene. C.	Cont.	Rice	Cement	JFI-1	Oil	JFI(E.W)	Passen.
	Ship Service Charge											
1	Pilotage Fee	○	○	○	○	○	○	○	○	○	○	○
2	Tugboat Fee	○	○	○	○	○	○	○	○	○	○	○
3	Mooring/Unmooring	○	○	○	○	○	○	○	○	○	○	○
4	Wharfage Due	○	○	○	○	○	○	○	○	○	○	○
5	Health Quarantine	○	○	○	○	○	○	○	○	○	○	○
6	Freash Water	○	○	○	○	○	○	○	○	○	○	○
7	Garbage	○	○	○	○	○	○	○	○	○	○	○
8	Radio	○	○	○	○	○	○	○	○	○	○	○
9	Hire Motorboat	○	○	○	○	○	○	○	○	○	○	○
10	Port Entrance Fee	○	○	○	○	○	○	○	○	○	○	○
11	Stevedoring Charge	—	○	○	○	○	○	○	○	○	—	—
12	Storage Charge	—	○	○	○	—	—	—	—	—	—	—
13	Container Storage Charge	—	—	—	—	○	—	—	—	—	—	—
14	Reefer Container	—	—	—	—	○	—	—	—	—	—	—
15	Weightbriges Fee	○	○	○	○	○	○	○	○	○	—	—
16	Porterage Charge	—	○	○	○	○	—	—	—	—	—	—
17	Lighterage Charge	—	○	○	○	○	—	—	—	—	—	—
18	Quay Charge	—	○	○	○	○	—	—	—	—	—	—
19	Equimpent	—	○	○	○	○	—	—	—	—	—	—
20	Workers Wage	—	○	○	○	○	—	—	—	—	—	—
21	Phos. Storage & Handling Service	○	—	—	—	—	—	—	—	—	—	—
22	Industrial Port Service Fee	—	—	—	—	—	○	○	—	—	○	
23	Passengers Services Fee	—	—	—	—	—	—	—	—	—	—	○

Note (1) ○: Charged — : No charged
(2) Ship Service Charge is calculated by Number of Calling Vessels
(3) Passengers Services Fee is calculated by Number of Passenger
(4) Other Charges are calculated by Cargo Handling Volume

Appendix 5.12.7 Initial Investment Costs

(Unit : 1,000JD)

	①	②=①*0.08 or 0.03	③=①*0.1 or 0.05	④=①+③	⑤=④*0.18	⑥=④+⑤
	Cost	Consulting Services	Physical Contingency	Cost (before Tax)	Tax	Cost (after Tax)
Civil Works						
Grain Berth	617	49	62	679	122	801
Container Berth	2,816	225	282	3,098	558	3,655
Container Yard	1,020	82	102	1,122	202	1,324
JFI-1(Quay & Dolphin)	4,702	376	470	5,172	931	6,103
JFI-North(Quay)	5,427	434	543	5,969	1,074	7,044
Buildings(Container)	505	40	51	556	100	655
Road & Yard(JFI-1)	232	19	23	255	46	301
Total	15,319	1,225	1,532	16,850	3,033	19,883
Equipment						
Conveyer(Grain)	1,230	37	62	1,292	232	1,524
Conveyer(JFI-North)	1,008	30	50	1,058	191	1,249
Gantry Crane(Con.)	5,540	166	277	5,817	1,047	6,864
Transfer Crane(Con.)	7,200	216	360	7,560	1,361	8,921
Loader(Fertilizer)	3,480	104	174	3,654	658	4,312
Total	18,458	554	923	19,381	3,489	22,869
Utilities						
Container Yard	462	37	46	508	91	600
JFI-1	23	2	2	25	5	30
JFI-North	95	8	10	104	19	123
Angle Tower(JFI-North)	240	7	12	252	45	297
Total	820	54	70	890	160	1,050
Deepening or Cut						
General Cargo Berth	15	1	2	17	3	19
Grain Berth	62	5	6	68	12	80
JFI-1	264	21	26	290	52	343
Container Yard	2,190	175	219	2,409	434	2,843
Total	2,531	202	253	2,784	501	3,285
Direct Cost Total	37,128		2,778	39,905	7,183	47,088
Consulting Services		2,035	102	2,137	385	2,522
Administration Cost(PC)		743	37	780	140	920
Physical Contingency			2,917			
Total	37,128			42,822	7,708	50,530

(Unit : 1,000JD)

	1996	1997	1998	1999	Total
Initial Investments Cost	298	12,897	26,116	11,219	50,530

Appendix 5.12.8 Personnel Cost in 1994

Unit : 1,000JD

	Staff	Worker	Casual Labor	Total
Salaries & Wages	6,338	2,880	3,086	12,304
Other Salaries & Allowances	607		-	607
Total	9,825		3,086	12,911

Appendix 5.12.9 Investment Costs of PC until 1994

(Unit : 1,000JD)

	Construction or Procurement Cost	
Berths	44,555	
Road & Yard	7,466	
Building	25,577	
Total	77,598	72.5%
Machines	23,085	
Equipment	3,139	
Total	26,224	24.5%
Land	826	
Furniture	2,373	
TOTAL	107,021	

Appendix 5.12.10 Calculation of FIRR

(Unit= 1,000 JD)

Year	Revenues			Cost			(Revenue)	Revenue	Net Present Value	
	Operating Revenues	Subsidy (G. Fund)	Total	Investment (total)	Operating Expense	Total	- (Cost)		Cost	Difference
1994	0	0	0	0	0	0	0	0	0	0
1995	-0	0	-0	0	0	0	-0	-0	0	-0
1996	-0	0	-0	298	0	298	-298	-0	255	-256
1997	-0	0	-0	12,897	0	12,897	-12,897	-0	10,231	-10,232
1998	263	0	263	26,118	363	26,481	-26,218	193	19,447	-19,254
1999	1,678	0	1,678	11,219	961	12,180	-10,502	1,141	8,280	-7,139
2000	3,425	0	3,425	0	1,156	1,156	2,269	2,155	727	1,428
2001	4,415	0	4,415	0	1,156	1,156	3,259	2,572	673	1,899
2002	5,082	0	5,082	0	1,156	1,156	3,926	2,741	623	2,117
2003	5,771	0	5,771	0	1,156	1,156	4,615	2,881	577	2,304
2004	6,242	0	6,242	0	1,156	1,156	5,086	2,885	534	2,351
2005	6,888	0	6,888	62	1,156	1,218	5,670	2,947	521	2,426
2006	7,366	0	7,366	3,481	1,156	4,637	2,730	2,918	1,836	1,081
2007	7,871	0	7,871	281	1,156	1,437	6,434	2,886	527	2,359
2008	8,417	0	8,417	0	1,156	1,156	7,261	2,857	392	2,465
2009	8,635	0	8,635	0	1,156	1,156	7,479	2,713	363	2,350
2010	9,016	0	9,016	0	1,156	1,156	7,860	2,622	336	2,286
2011	9,016	0	9,016	8,133	1,156	9,289	-273	2,428	2,501	-73
2012	9,016	0	9,016	8,753	1,156	9,909	-893	2,247	2,470	-223
2013	9,016	0	9,016	3,273	1,156	4,429	4,587	2,080	1,022	1,058
2014	9,016	0	9,016	3,481	1,156	4,637	4,379	1,926	990	935
2015	9,016	0	9,016	281	1,156	1,437	7,579	1,783	284	1,499
2016	9,016	0	9,016	0	1,156	1,156	7,860	1,650	212	1,439
2017	9,016	0	9,016	0	1,156	1,156	7,860	1,528	196	1,332
2018	9,016	0	9,016	0	1,156	1,156	7,860	1,414	181	1,233
2019	9,016	0	9,016	0	1,156	1,156	7,860	1,309	168	1,141
2020	9,016	0	9,016	0	1,156	1,156	7,860	1,212	155	1,057
2021	9,016	0	9,016	62	1,156	1,218	7,798	1,122	152	970
2022	9,016	0	9,016	3,481	1,156	4,637	4,379	1,039	534	505
2023	9,016	0	9,016	281	1,156	1,437	7,579	962	153	808
2024	9,016	0	9,016	0	1,156	1,156	7,860	890	114	776
2025	9,016	0	9,016	8,133	1,156	9,289	-273	824	849	-25
2026	9,016	0	9,016	8,753	1,156	9,909	-893	763	838	-76
2027	9,016	0	9,016	3,211	1,156	4,367	4,649	706	342	364
2028	9,016	0	9,016	0	1,156	1,156	7,860	654	84	570
2029	9,016	0	9,016	62	1,156	1,218	7,798	605	82	523
Total	246,369	0	246,369	102,260	35,994	138,254	108,115	56,652	56,652	-0

FIRR = 8.0%

Appendix 5.12.11 Financial Statements for Short-Term Improvement Plan

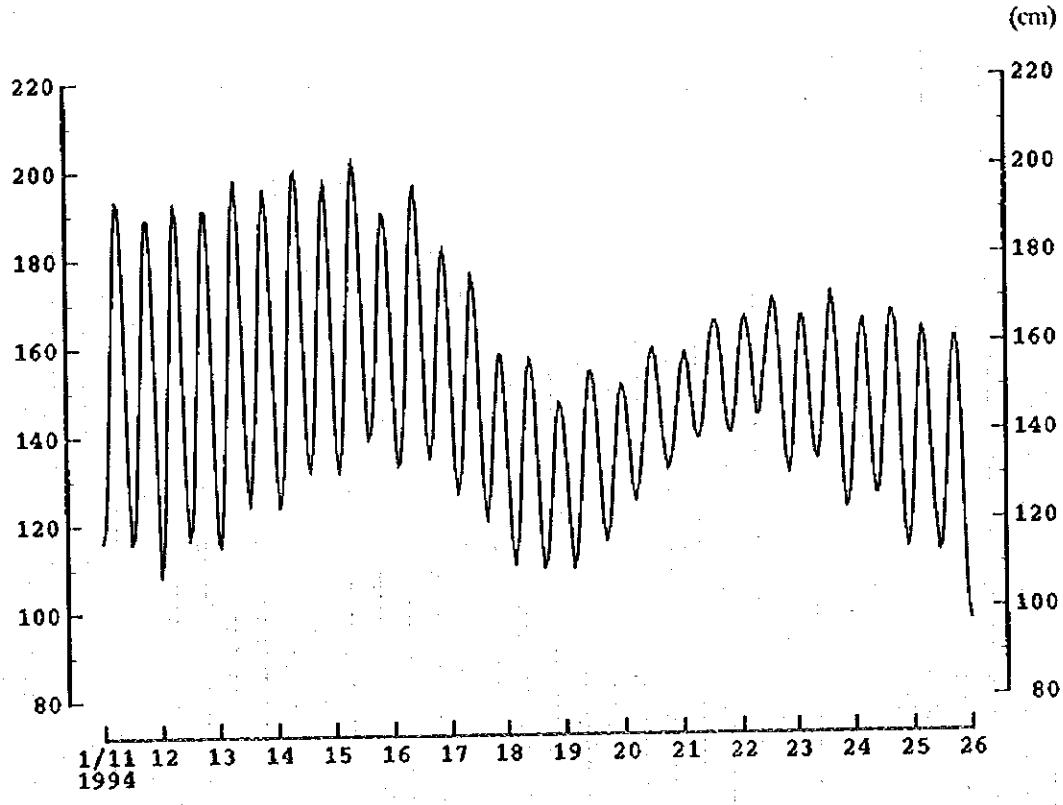
PROFIT AND LOSS STATEMENT	(Unit= 1,000 JD)																																			
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Operating Revenue	33,413	35,881	37,782	38,855	39,989	41,187	42,424	43,696	45,006	46,356	47,747	49,179	50,654	52,173	53,738	55,350	57,011	58,721	60,483	62,298	64,167	66,092	68,075	70,117	72,221	74,387	76,619	78,918	81,286	83,725	86,237	88,824	91,488	94,233	97,060	99,972
Operating Expenses	23,443	22,008	22,532	23,135	24,461	24,573	24,298	24,353	24,415	24,478	24,541	24,604	24,543	24,608	24,696	24,756	24,821	24,884	24,947	24,999	24,156	24,301	24,313	24,372	24,434	24,498	24,562	24,624	24,688	24,803	24,873	24,875	24,934	24,993	25,054	25,116
Revenue1	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
Maintenance and repair	1,757	4,839	6,682	3,945	2,371	3,031	3,288	3,353	3,414	3,473	3,549	3,602	3,645	3,728	3,791	3,853	3,918	3,973	4,041	4,104	4,167	4,235	4,303	4,371	4,443	4,513	4,583	4,656	4,732	4,784	4,857	4,920	4,982	5,045	5,108	5,171
Administration	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	5,905	5,905	5,905	5,905	5,905	5,850	5,895	5,891	5,872	5,818	5,818	5,818	5,818	5,818	4,491	5,872	5,818	5,818	5,850	5,695	5,818
Depreciation costs	3,530	3,530	3,530	3,530	3,530	4,032	4,001	4,001	4,001	4,001	4,001	4,001	4,001	4,001	4,001	5,070	5,958	5,905	5,905	5,905	5,850	5,895	5,891	5,872	5,818	5,818	5,818	5,818	5,818	5,818	5,872	5,818	5,818	5,850	5,695	5,818
Operatiolnc costs	15,956	13,078	10,320	11,920	13,560	13,010	12,297	11,826	10,852	10,845	10,847	10,133	10,539	10,813	12,700	13,433	14,413	15,350	17,102	17,815	19,470	19,371	19,422	19,499	19,616	19,687	19,757	19,830	19,906	19,983	20,064	20,057	20,134	20,213	20,294	20,376
Net Operating Income	8	391	584	1,728	2,547	3,373	4,127	5,342	6,565	7,837	9,141	10,539	12,056	13,488	15,060	17,725	18,428	20,255	21,518	23,607	25,470	27,374	29,402	31,493	33,623	35,813	38,062	40,347	42,697	45,021	47,480	50,005	52,593	55,242	57,954	60,728
Non-operating Revenues	8	391	584	1,728	2,547	3,373	4,127	5,342	6,565	7,837	9,141	10,539	12,056	13,488	15,060	17,725	18,428	20,255	21,518	23,607	25,470	27,374	29,402	31,493	33,623	35,813	38,062	40,347	42,697	45,021	47,480	50,005	52,593	55,242	57,954	60,728
Interest on deposits	8	391	584	1,728	2,547	3,373	4,127	5,342	6,565	7,837	9,141	10,539	12,056	13,488	15,060	17,725	18,428	20,255	21,518	23,607	25,470	27,374	29,402	31,493	33,623	35,813	38,062	40,347	42,697	45,021	47,480	50,005	52,593	55,242	57,954	60,728
Non-operating Expenses	0	0	0	0	267	798	1,021	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,010	978	939	882	816	765	714	663	612	560	509	459	407	356	305	254	202	151	100	45	33
Interest on long-term loans	0	0	0	0	267	798	1,021	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,010	978	939	882	816	765	714	663	612	560	509	459	407	356	305	254	202	151	100	45	33
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exchange balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pal Income Before Tax	15,956	23,465	31,176	36,441	38,816	40,828	42,583	45,864	48,706	51,239	54,260	57,619	60,622	63,341	66,217	69,149	72,881	75,587	79,133	81,875	81,161	85,593	85,663	87,726	89,860	92,017	94,266	96,550	98,911	101,147	103,648	106,162	108,596	110,881	113,573	116,321
Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pal Income After Tax	15,956	23,465	31,176	36,441	38,816	40,828	42,583	45,864	48,706	51,239	54,260	57,619	60,622	63,341	66,217	69,149	72,881	75,587	79,133	81,875	81,161	85,593	85,663	87,726	89,860	92,017	94,266	96,550	98,911	101,147	103,648	106,162	108,596	110,881	113,573	116,321
(Contribution to the Government)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pal Income After Contribution	15,956	23,465	31,176	36,441	38,816	40,828	42,583	45,864	48,706	51,239	54,260	57,619	60,622	63,341	66,217	69,149	72,881	75,587	79,133	81,875	81,161	85,593	85,663	87,726	89,860	92,017	94,266	96,550	98,911	101,147	103,648	106,162	108,596	110,881	113,573	116,321
Retained Earnings	15,956	23,465	31,176	36,441	38,816	40,828	42,583	45,864	48,706	51,239	54,260	57,619	60,622	63,341	66,217	69,149	72,881	75,587	79,133	81,875	81,161	85,593	85,663	87,726	89,860	92,017	94,266	96,550	98,911	101,147	103,648	106,162	108,596	110,881	113,573	116,321

CASH FLOW STATEMENT	(Unit= 1,000 JD)																																			
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Cash Beginning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Inflow (excluding C. Funds)	18,646	27,655	35,880	40,832	41,314	44,431	47,414	53,004	55,616	58,744	61,388	64,653	67,523	70,533	73,183	76,084	80,756	83,366	84,411	85,737	87,537	89,378	91,344	93,348	95,439	97,548	99,741	101,978	104,253	106,524	108,919	111,382	113,707	116,075	118,539	121,351
Net operating Income	15,956	23,074	30,210	34,920	35,938	36,102	35,331	41,016	43,252	44,545	46,642	48,119	49,639	50,933	52,200	53,433	56,613	56,358	57,412	57,935	57,076	58,933	58,921	58,803	58,783	58,735	58,673	58,618	58,571	58,523	58,479	58,359	58,164	58,135	58,103	58,069
Depreciation costs	3,530	3,530	3,530	3,530	3,530	4,032	4,001	4,001	4,001	4,001	4,001	4,001	4,001	4,001	4,001	5,070	5,958	5,905	5,905	5,905	5,850	5,895	5,891	5,872	5,818	5,818	5,818	5,818	5,818	4,491	5,872	5,818	5,818	5,850	5,695	5,818
Long-term loans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest on deposits	0	391	584	1,728	2,547	3,373	4,127	5,342	6,565	7,837	9,141	10,539	12,056	13,488	15,060	17,725	18,428	20,255	21,518	23,607	25,470	27,374	29,402	31,493	33,623	35,813	38,062	40,347	42,697	45,023	47,480	50,005	52,393	54,824	57,450	60,733
Cash Outflow (excluding C. Funds)	3,858	3,858	3,858	16,597	30,873	35,735	4,713	4,713	4,713	4,713	4,713	4,775	8,134	5,008	5,288	8,333	8,555	14,035	15,206	8,574	9,337	8,580	8,248	8,198	8,149	8,049	8,043	8,059	8,422	8,116	9,339	13,929	14,489	8,385	5,119	4,147
Investment	3,858	3,858	3,858	16,597	28,000	34,909	3,590	3,490	3,490	3,490	3,490	3,752	7,171	3,473	3,690	3,104	3,690	11,023	12,493	6,983	7,873	5,973	5,498	5,690	5,690	5,690	5,690	5,752	5,371	5,921	5,490	11,023	12,493	6,961	3,698	2,757
Repayment for long-term loans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,010	978	939	882	816	765	714	663	612	560	509	459	407	356	305	254	202	151	100	45	33
Interest on long-term loans	0	0	0	0	267	798	1,021	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,010	978	939	882	816	765	714	663	612	560	509	459	407	356	305	254	202	151	100	45	33
Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(Contribution to the Government)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Inflow - Cash Outflow	15,858	23,797	32,022	24,235	11,441	8,696	42,701	48,291	51,903	54,031	56,675	59,878	59,389	65,526	67,895	67,751	72,201	69,331	69,205	77,163	78,200	80,798	83,096	85,150	87,290	89,499	91,698	93,919	96,831	98,408	100,353	103,453	105,218	107,690	112,420	117,204
Cash Ending	15,858	23,797	32,022	24,235	11,441	8,696	42,701	48,291	51,903	54,031	56,675	59,878	59,389	65,526	67,895	67,751	72,201	69,331	69,205	77,163	78,200	80,798	83,096	85,150	87,290	89,499	91,698	93,919	96,831	98,408	100,353	103,453	105,218	107,690	112,420	117,204
Cash excess	15,858	23,797	32,022	24,235	11,441	8,696	42,701	48,291	51,903	54,031	56,675	59,878	59,389	65,526	67,895	67,751	72,201	69,331	69,205	77,163	78,200	80,798	83,096	85,150	87,290	89,499	91,698	93,919	96,831	98,408	100,353	103,453	105,218	107,690	112,420	117,204
Cash shortage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BALANCE SHEET	(Unit= 1,000 JD)																																			
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
(Assets)																																				
Current Assets	15,858	39,421	70,523	103,940	135,028	174,754	219,854	267,958	319,858	373,105	430,175	490,053	549,382	614,708	682,665	752,554	824,755	894,629	963,535	1,039,537	1,117,303	1,200,101	1,283,958	1,372,307	1,461,681	1,553,131	1,646,830	1,742,751	1,837,592	1,937,845	2,041,826	2,138,488	2,237,706	2,344,896	2,458,396	2,575,569
Cash & Deposit	15,858	39,421	70,523	103,940	135,028	174,754	219,854	267,958	319,858	373,105	430,175	490,053	549,382	614,708	682,665	752,554	824,755	894,629	963,535	1,039,537	1,117,303	1,200,101	1,283,958	1,372,307	1,461,681	1,553,131	1,646,830	1,742,751	1,837,592	1,937,845	2,041,826	2,138,488	2,237,706	2,344,896	2,458,396	2,575,569
Fixed Assets	69,584	63,584	63,082	76,779	102,897	112,016	110,503	106,192	105,861	103,569	101,258	99,000	96,703	93,335	90,908	93,885	91,870	93,588	104,003	106,001	105,235	103,945	102,617	101,244	99,826	98,363	96,853	95,294	93,684	92,023	90,310	88,545	86,727	84,856	82,931	80,953
Construction costs	0	0	0	19,195	38,313	56,531	74,748	92,966	111,183	129,401	147,618	165,836	184,053	202,271	220,488	238,706	256,923	275,141	293,358	311,576	329,793	348,011	366,228	384,446	402,663	420,881	439,098	457,316	475,533	493,751	511,968	530,186	548,403	566,621	584,838	603,056
Existing Fixed Assets	107,822	110,713	114,402	118,032	121,702	125,473	129,169	132,853	136,543	140,233	143,923	147,613	151,303	154,993	158,684	162,374	166,064	169,754	173,444	177,134	180,824	184,514	188,204	191,895	195,585	199,275	202,965	206,655	210,345	214,035	217,725	221,415	225,106	228,796	232,486	236,176
Accumulated depreciation	43,438	47,129	50,820	54,508	58,189	63,180	69,392	75,193	81,104	87,136	93,287	99,558	105,926	113,354	118,823	122,844	126,748	134,866	139,305	144,800	149,381	154,862	159,886	164,899	169,917	174,935	179,957	184,982	190,012	195,963	195,963	195,963	195,963	195,963	195,963	195,963
Net fixed assets	83,584	63,584	63,082	76,779	102,897	112,016	110,503	106,192	105,861	103,569	101,258	99,000	96,703	93,335	90,908	93,885	91,870	93,588	104,003	106,001	105,235	103,945	102,617	101,244	99,826	98,363	96,853	95,294	93,684	92,023	90,310	88,545	86,727	84,856	82,931	80,953
Total Assets	79,540	103,005	134,605	180,719	238,525	287,588	330,357	374,141	424,535	476,674	531,434	589,052	646,084	708,043	773,573	846,440	916,626	988,217	1,067,538	1,145,538	1,222,538	1,304,046	1,386,575	1,473,551	1,561,507	1,651,494	1,743,683	1,838,045	1,931,276	2,029,868	2,132,136	2,227,033	2,324,433	2,429,752	2,541,327	2,656,349
(Liabilities and capital)																																				
Liabilities	0	0	224	0.885	26,485	37,859	37,859	37,859	37,859	37,859	37,859	37,859	37,859	37,846	37,343	35,913	34,024	33,128	30,234	26,939	26,444	24,549	22,654	20,759	18,864	16,969	15,074	13,179	11,284	9,389	7,495	5,600	3,705	1,821	421	0
Current Liabilities (short-term loan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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)	0	0	224	0.885	26,485	37,859	37,859	37,859	37,859	37,859	37,859	37,859	37,859	37,846	37,343	35,913	34,024	33,128	30,234	26,939	26,444	24,549	22,654	20,759	18,864	16,969	15,074	13,179	11,284	9,389	7,495	5,600	3,705	1,821	421	0
Capital	79,540	103,005	134,381	179,833	209,041	249,649	292,498	336,282	387,676	438,775	493,535	551,193	611,745	675,135	743,372	810,523	880,602	950,088	1,036,282	1,118,187	1,195,889	1,280,421	1,363,145	1,452,682	1,542,741	1,638,778	1,733,044	1,829,594	1,920,518	2,020,858	2,132,205	2,236,413	2,347,973	2,458,853	2,572,425	2,656,752
In Kind By Government Funds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Owned Capital	107,822	110,712	114,477	121,383	131,533	138,106	141,796	145,186	149,178	152,866	156,556	160,208	163,678	171,450	175,141	178,831	182,521	184,344	206,787	213,350	220,822	224,892	228,582	232,273	235,983	239,655	243,341	247,045	254,266	258,226	261,937	273,950	286,188	283,895	305,135	308,557
Retained Earnings	-27,482	-7,707	19,904	49,452	77,508	111,549	150,493	192,756	237,860	285,909	336,978	390,935	446,306	503,685	568,231	631,690	701,881	765,745	831,495	904,357	970,566	1,056,509	1,140,562	1,224,638	1,310,779	1,399,125	1,489,701	1,582,499	1,674,244	1,771,629	1,871,970	1,985,716	2,061,729	2,175,759	2,275,540	2,388,215
Total Liabilities and capital	79,540	103,005	134,605	180,719	238,525	287,588	330,357	378,141	424,535	476,674	531,434	589,052	646,084	713,023	778,765	846,440	916,626	987,218	1,066,518	1,146,465	1,226,333	1,304,821	1,383,759	1,477,608	1,565,504	1,655,747	1,743,318	1,842,274	1,935,795	2,030,847	2,140,600	2,245,066	2,351,677	2,458,874	2,572,845	2,696,752

FINANCIAL INDICATORS																																				
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Working Ratio (%)	47.5%	48.4%	55.8%	53.5%	34.8%	53.3%	53.6%	31.5%	31.3%	30.8%	30.8%	29.5%	24.0%	24.6%	28.3%	27.8%	26.5%	27.6%	27.8%	27.1%	33.3%	27.3%	27.3%	27.4%	27.5%	27.5%	27.6%	27.6%	27.8%	27.8%	27.9%	28.0%	28.1%	28.1%	28.2%	28.3%
Operating Ratio (%)	47.3%	48.4%	42.8%	38.1%	40.3%	43.6%	41.8%	40.5%	39.8%	38.8%	38.0%	37.3%	36.5%	36.6%	35.5%	35.8%	33.4%	33.4%	33.6%	33.1%	33.4%	33.4%	33.2%	33.2%	33.4%	33.4%	33.5%	33.6%	33.8%	33.8%	33.9%	33.9%	34.0%	34.0%	34.1%	34.2%
Rate of Return on Net Fixed Assets (%)	25.1%	36.3%	47.3%	45.5%	34.0%	39.6%	35.6%	38.5%	40.8%	43.4%	46.8%	48.6%	49.5%	51.6%	54.3%	54.5%	61.5%	57.7%	54.4%	53.4%	52.7%	52.8%	53.4%	54.8%	54.6%	55.3%	56.8%	56.6%	55.4%	55.8%	56.5%	52.9%	49.4%	48.5%	49.1%	49.6%
Debt Service Coverage Ratio	0.0	0.0	0.0	6358.2	158.3	54.1	41.3	46.5	48.1	43.8	33.4	31.9	34.3	33.0	38.3	33.9	31.4	32.1	32.5	33.9	33.3	33.8	34.2	34.7	35.2	35.7	36.2	36.8	33.4	28.0	26.6	26.3	30.0	30.5	42.2	141.5

6.4 Environmental Impact Assessment

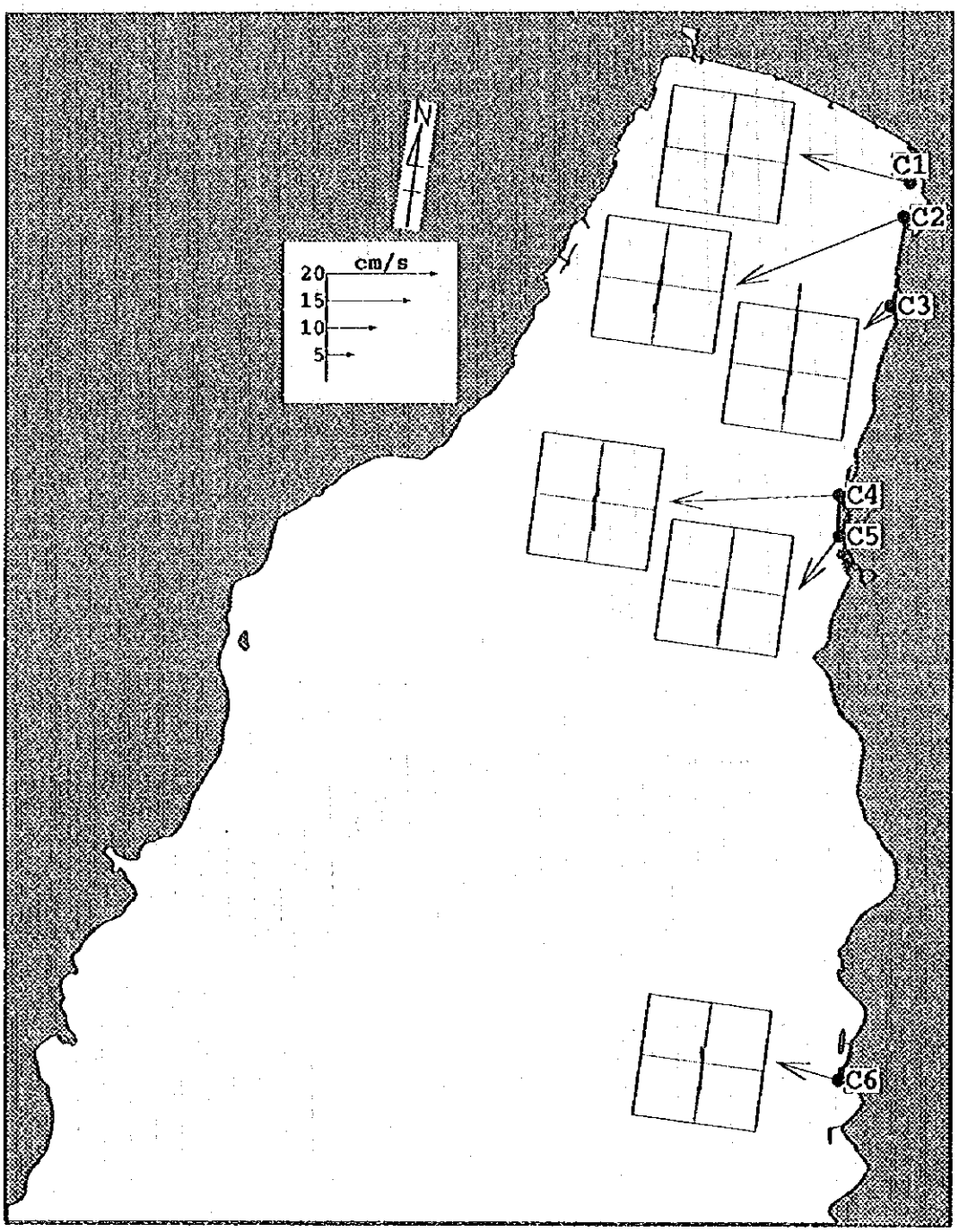


Appendix Figure 6.4.1 Variation of Water Level during 11 Jan. to 25 Jan. 1994

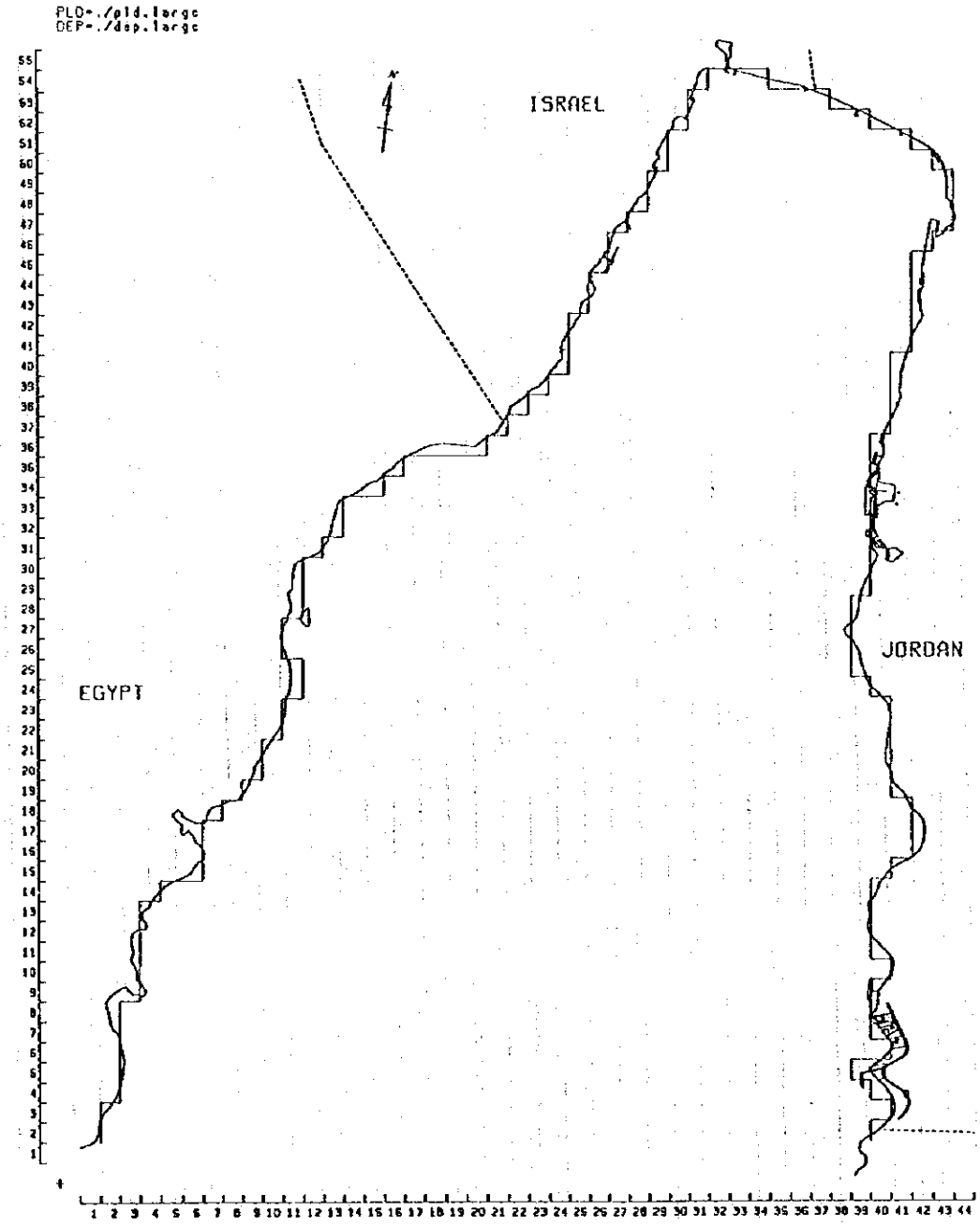
Appendix Table 6.4.1 Harmonic Constants of Tides

Component tide	Amplitude(cm)	Phase(degree)
K_1	2.9	44.4
O_1	0.8	262.5
P_1	1.0	44.4
Q_1	0.4	303.7
M_2	27.9	276.1
S_2	10.4	293.0
N_2	6.6	282.2
K_2	2.8	293.0
M_4	0.1	324.9
MS_4	0.1	310.0
C	149.6	—

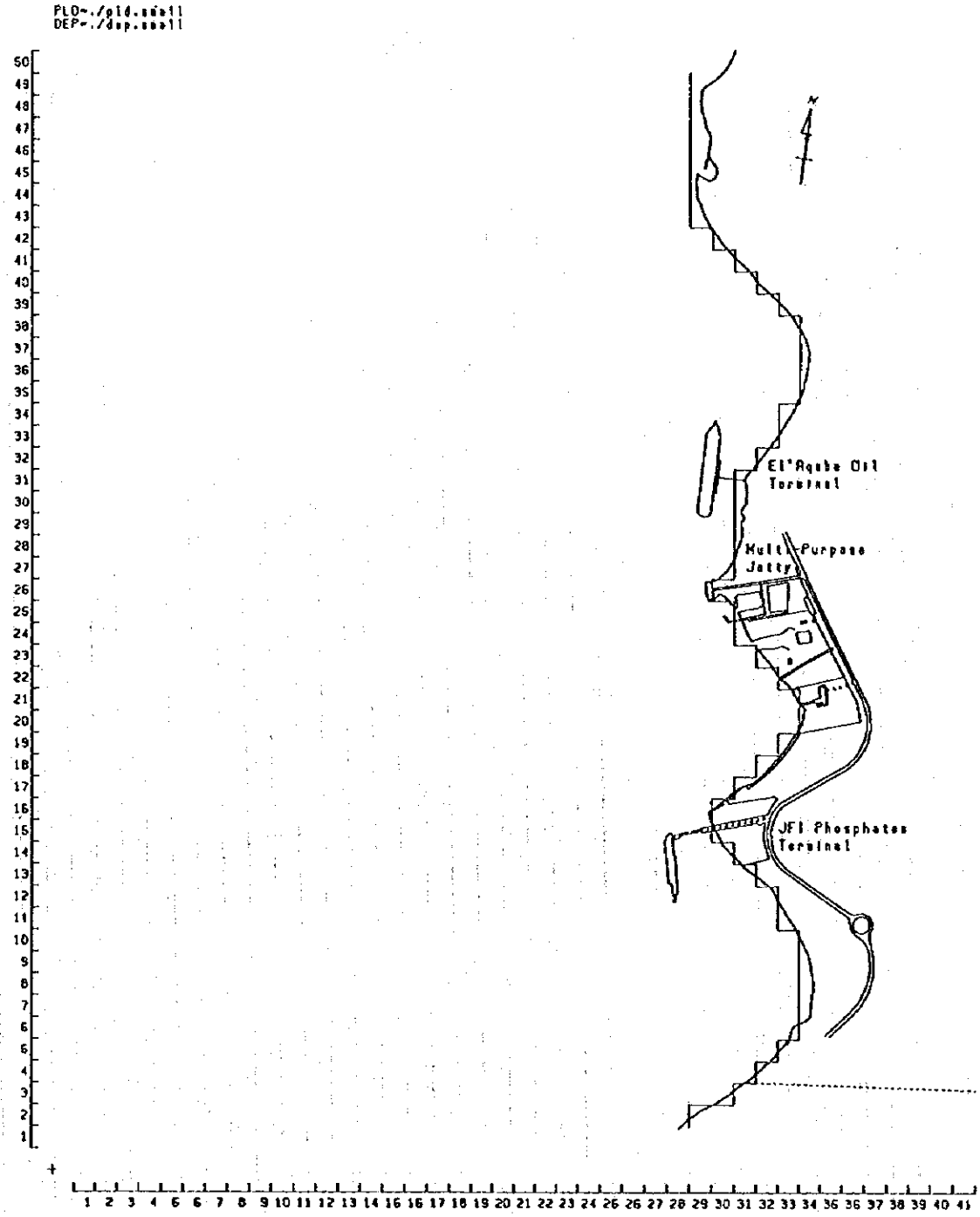
Note: C shows the mean water level for 15 days



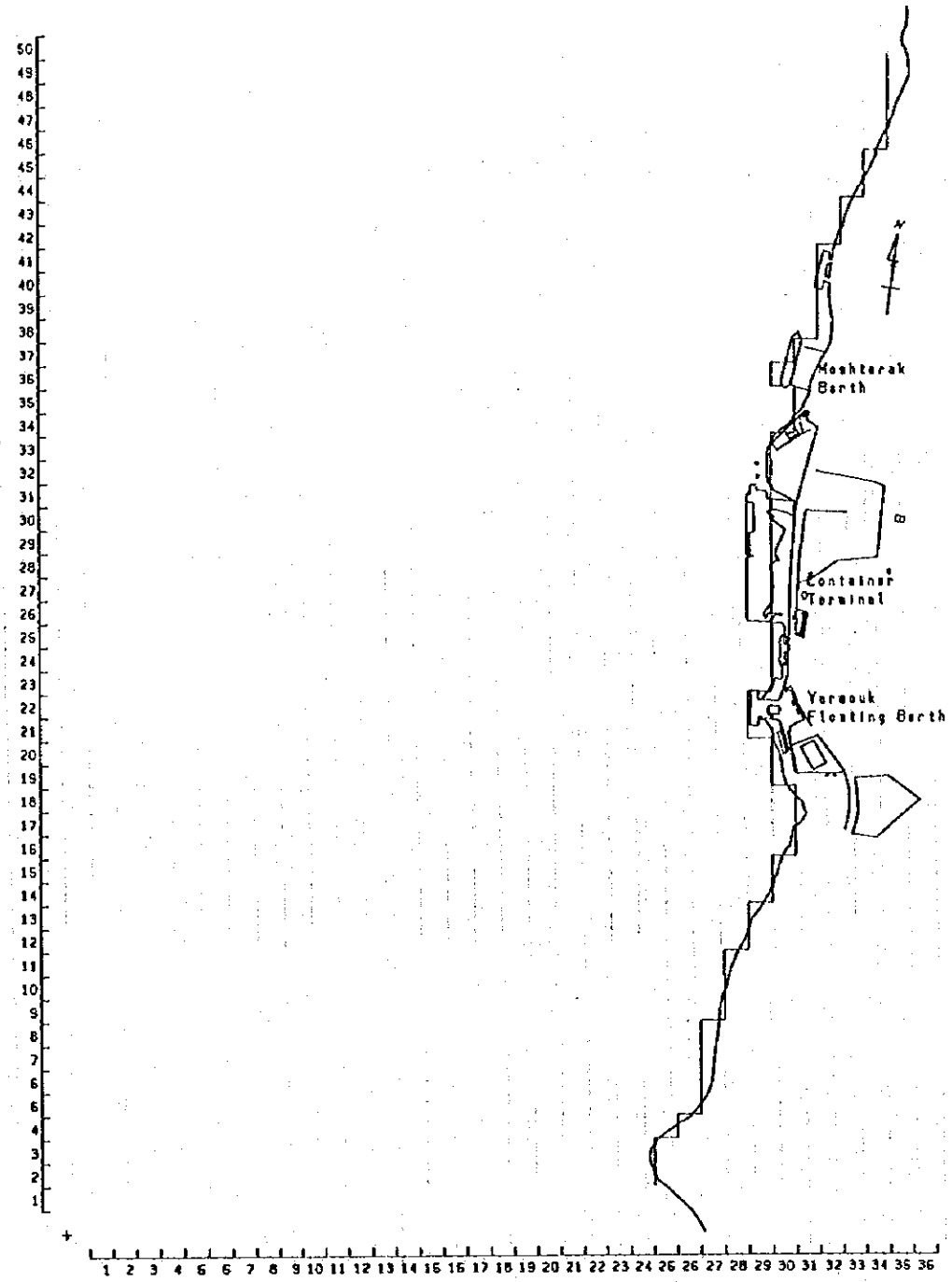
Appendix Figure 6.4.2 Result of the Field Observation of Current Flow during 13 Jan. and 15 Jan. 1995



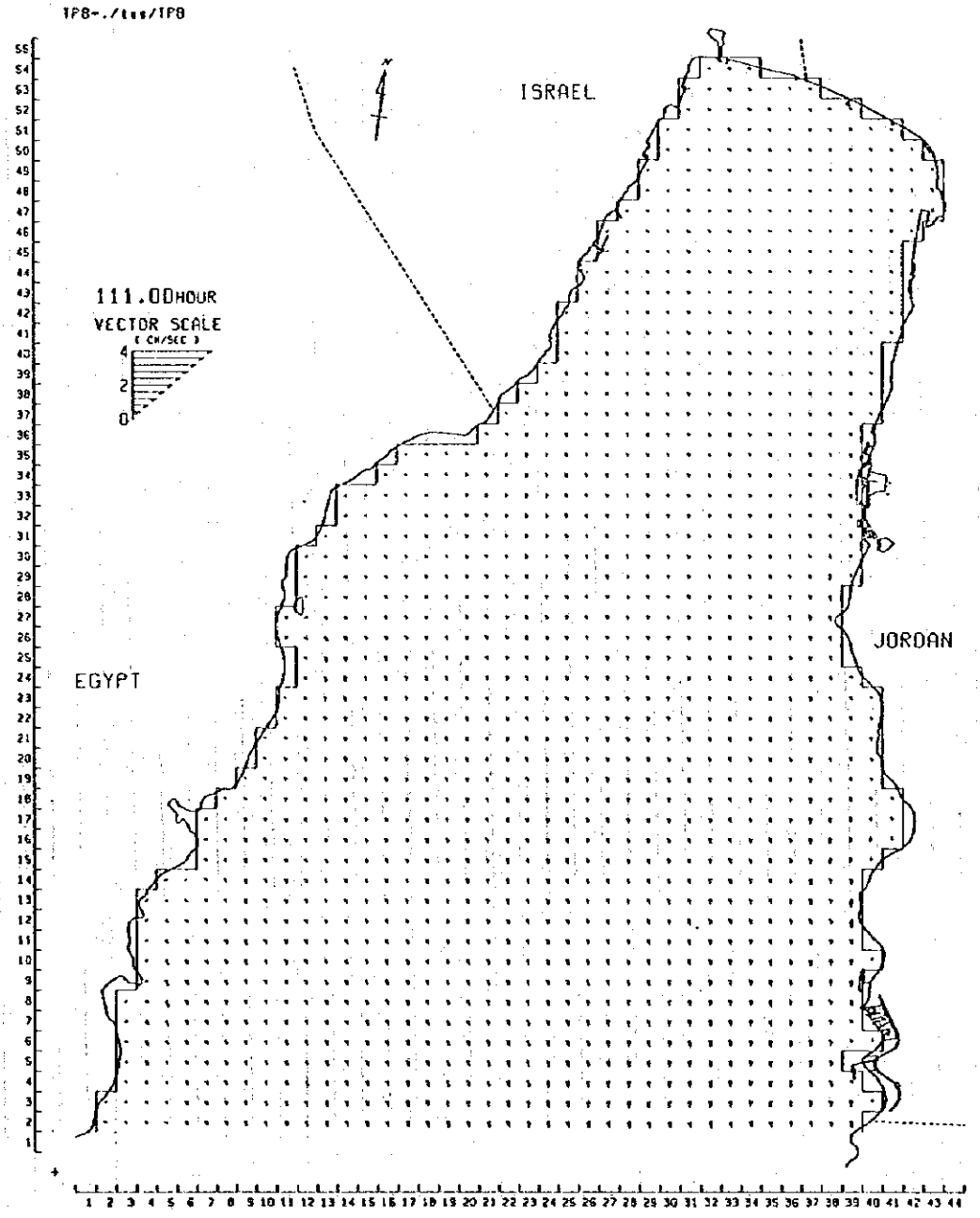
Appendix Figure 6.4.3 Configuration used in the Calculation for Large Domain



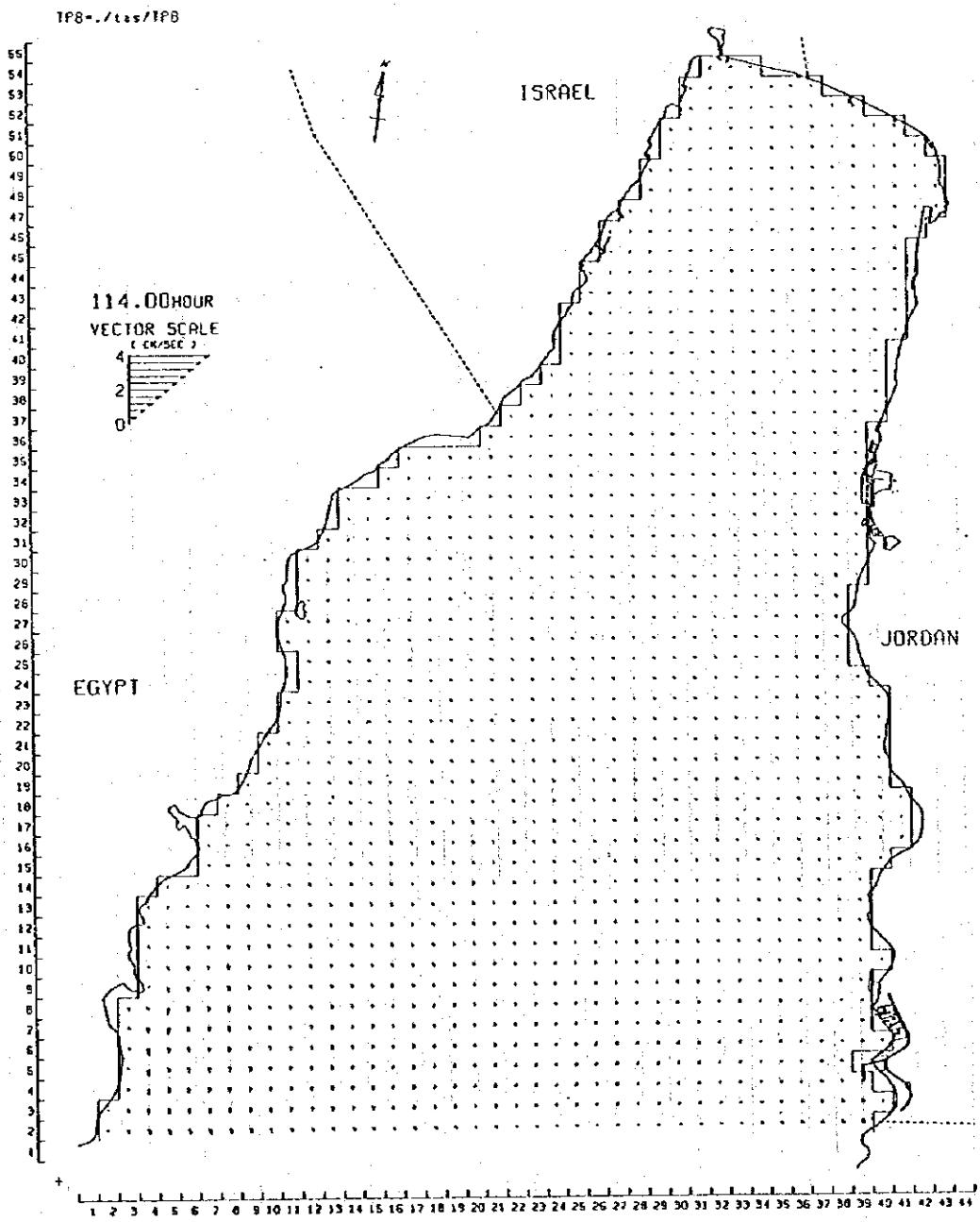
Appendix Figure 6.4.4(1) Configuration used in the Calculation for Small Domain (Container Port)



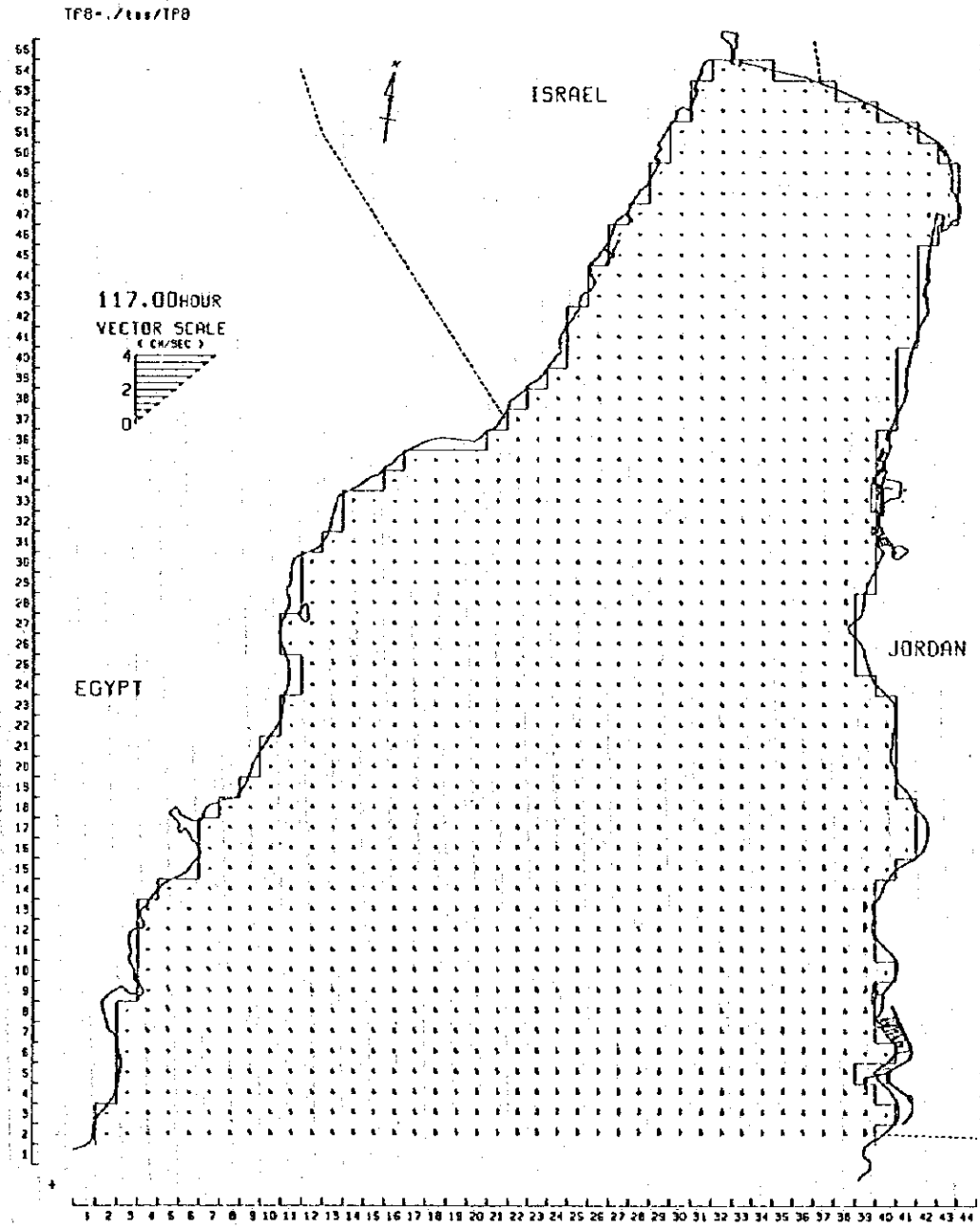
Appendix Figure 6.4.4(2) Configuration used in the Calculation for Small Domain (Industrial Port)



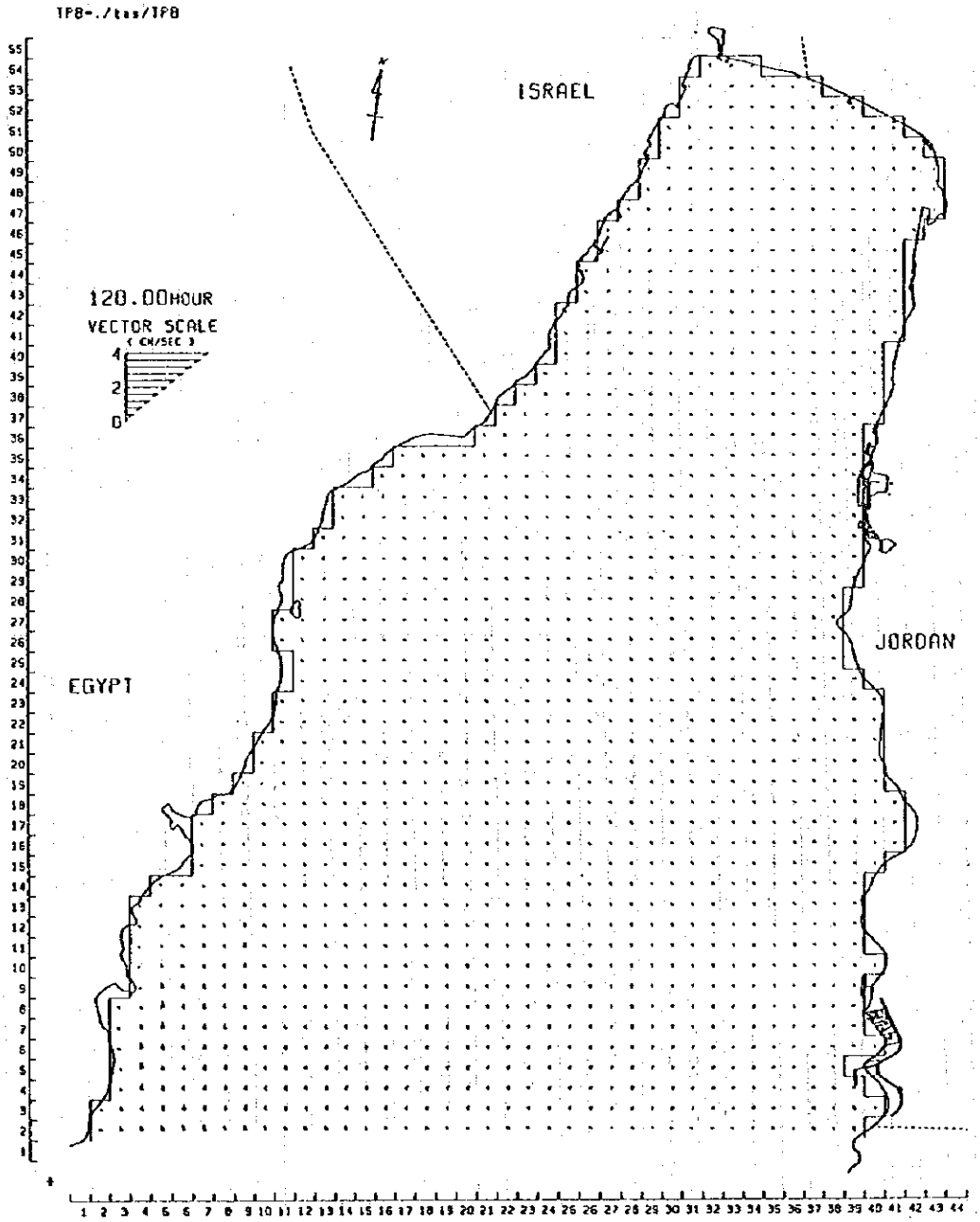
Appendix Figure 6.4.5(1) Result of the Calculation of Current Flow for Large Domain at an Ebb Tide



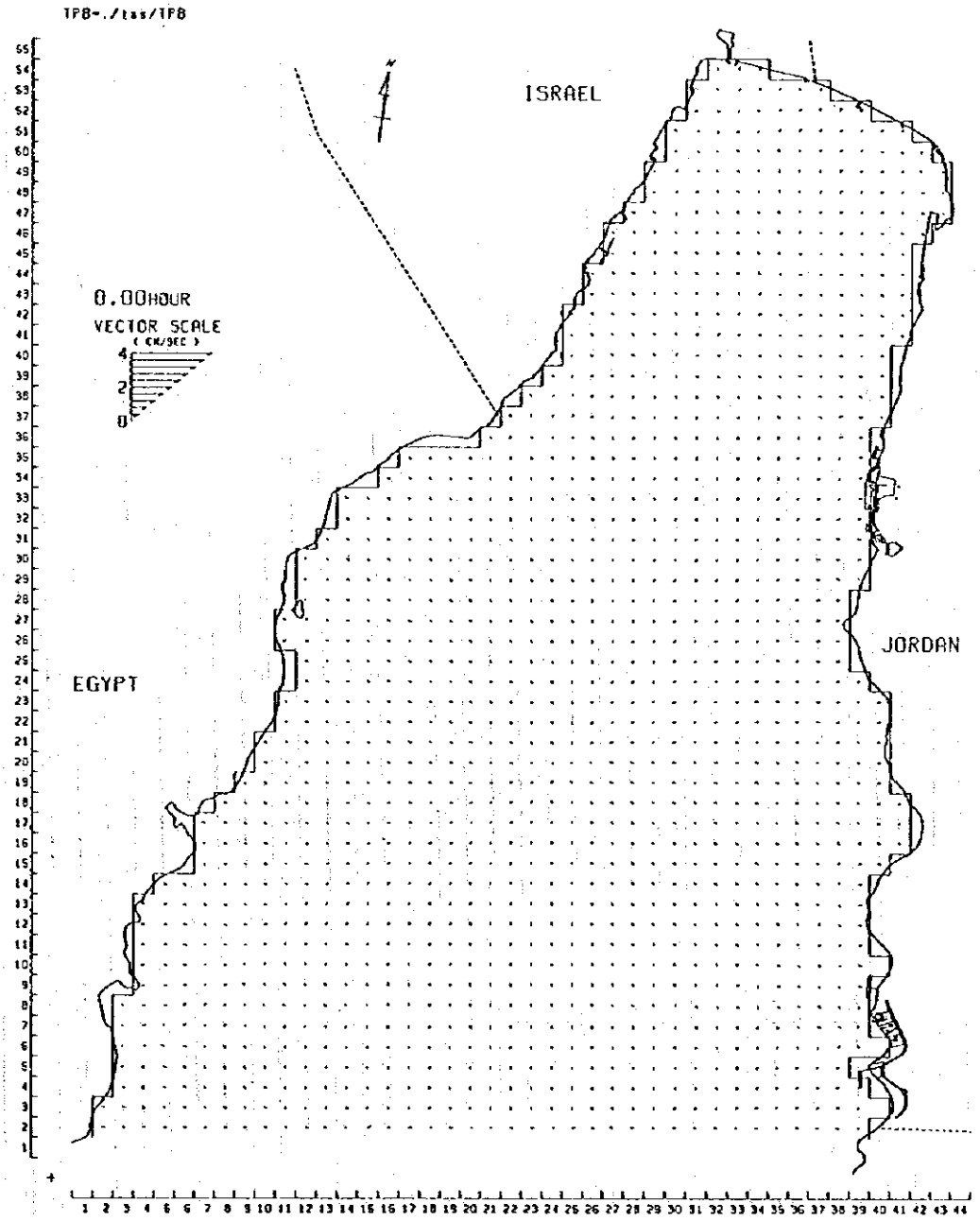
Appendix Figure 6.4.5(2) Result of the Calculation of Current Flow for Large Domain at a Low Tide



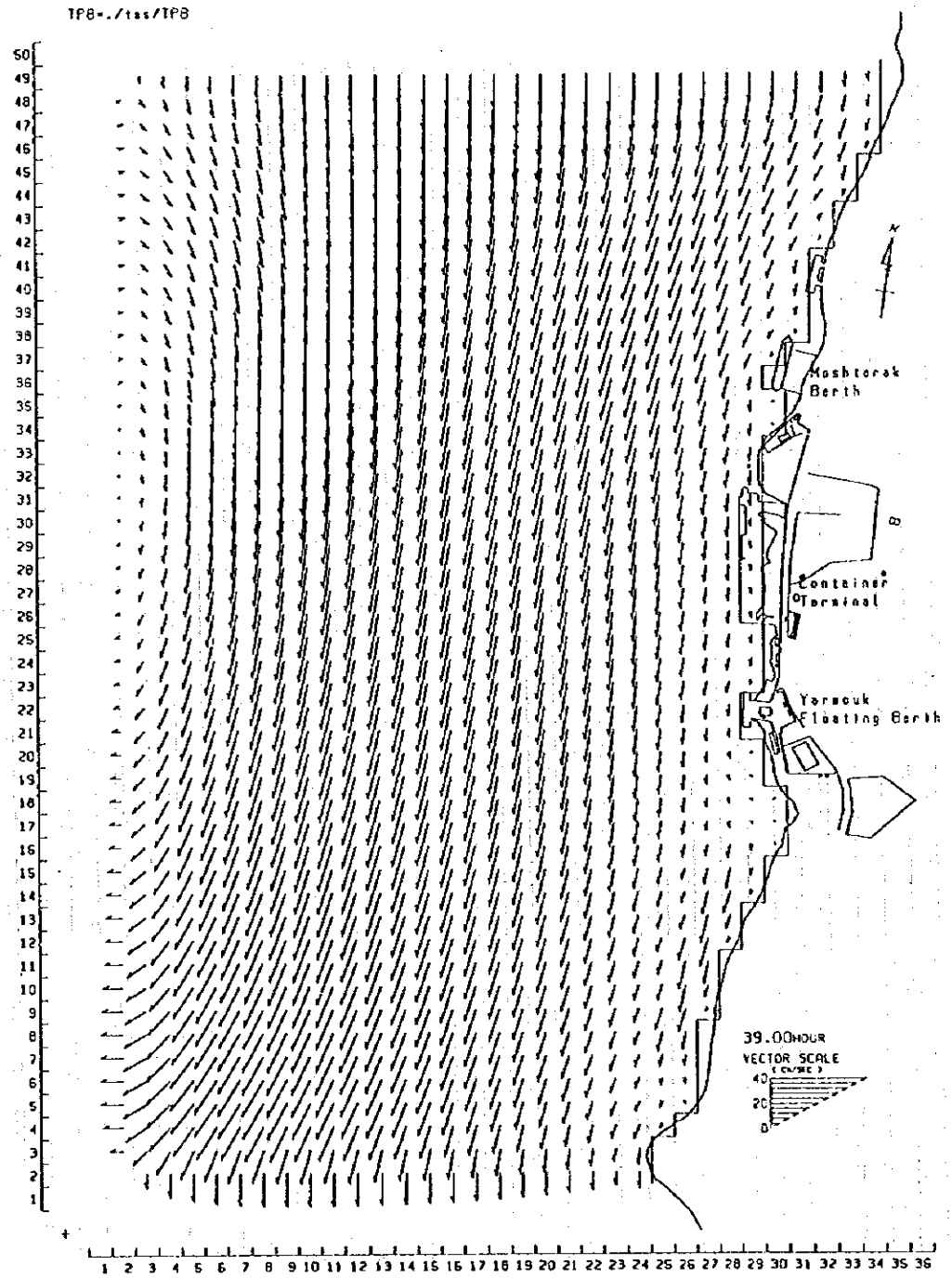
Appendix Figure 6.4.5(3) Result of the Calculation of Current Flow for Large Domain at a Flood Tide



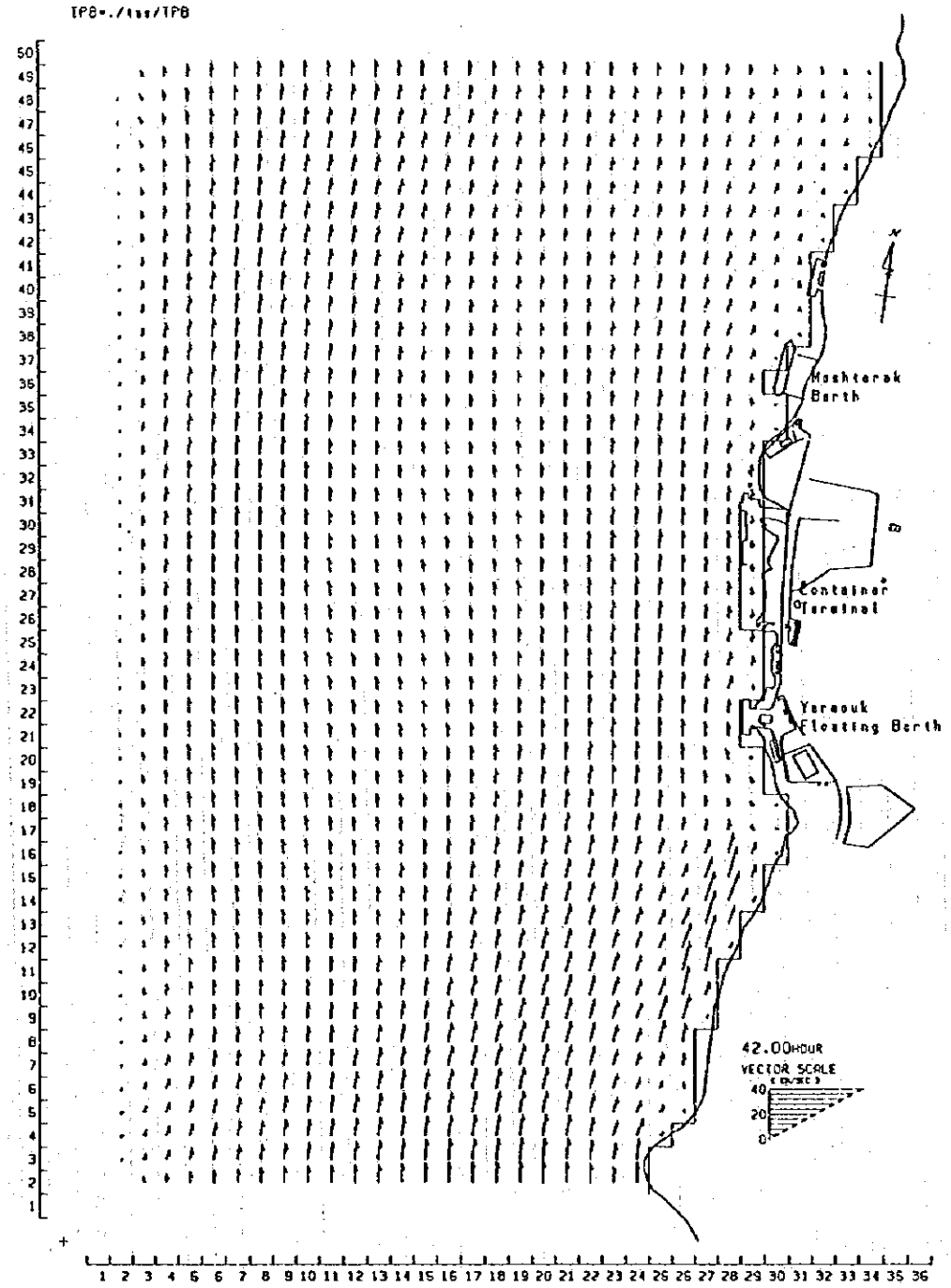
Appendix Figure 6.4.5(4) Result of the Calculation of Current Flow for Large Domain at a High Tide



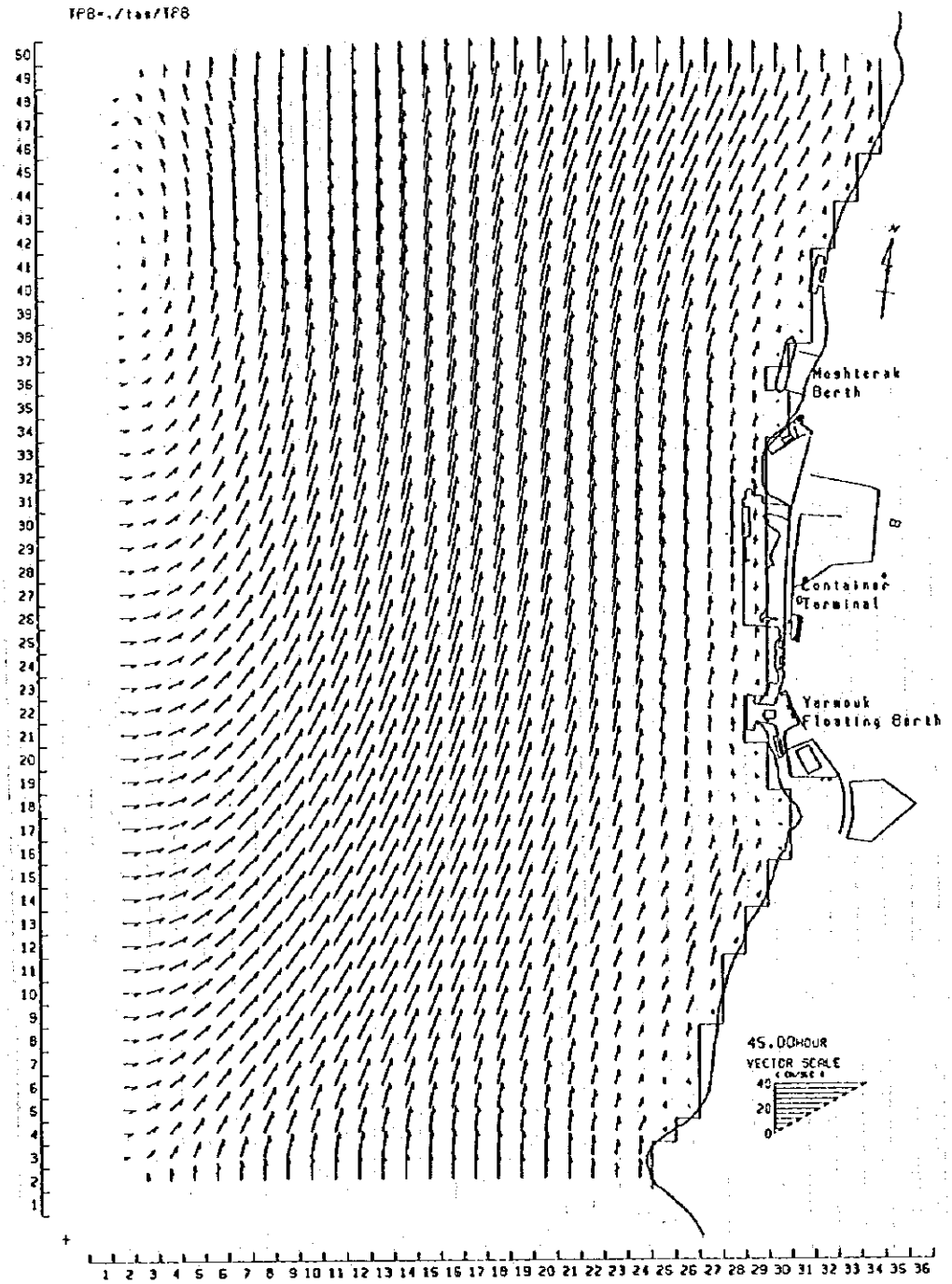
Appendix Figure 6.4.5(5) Result of the Calculation of Current Flow for Large Domain



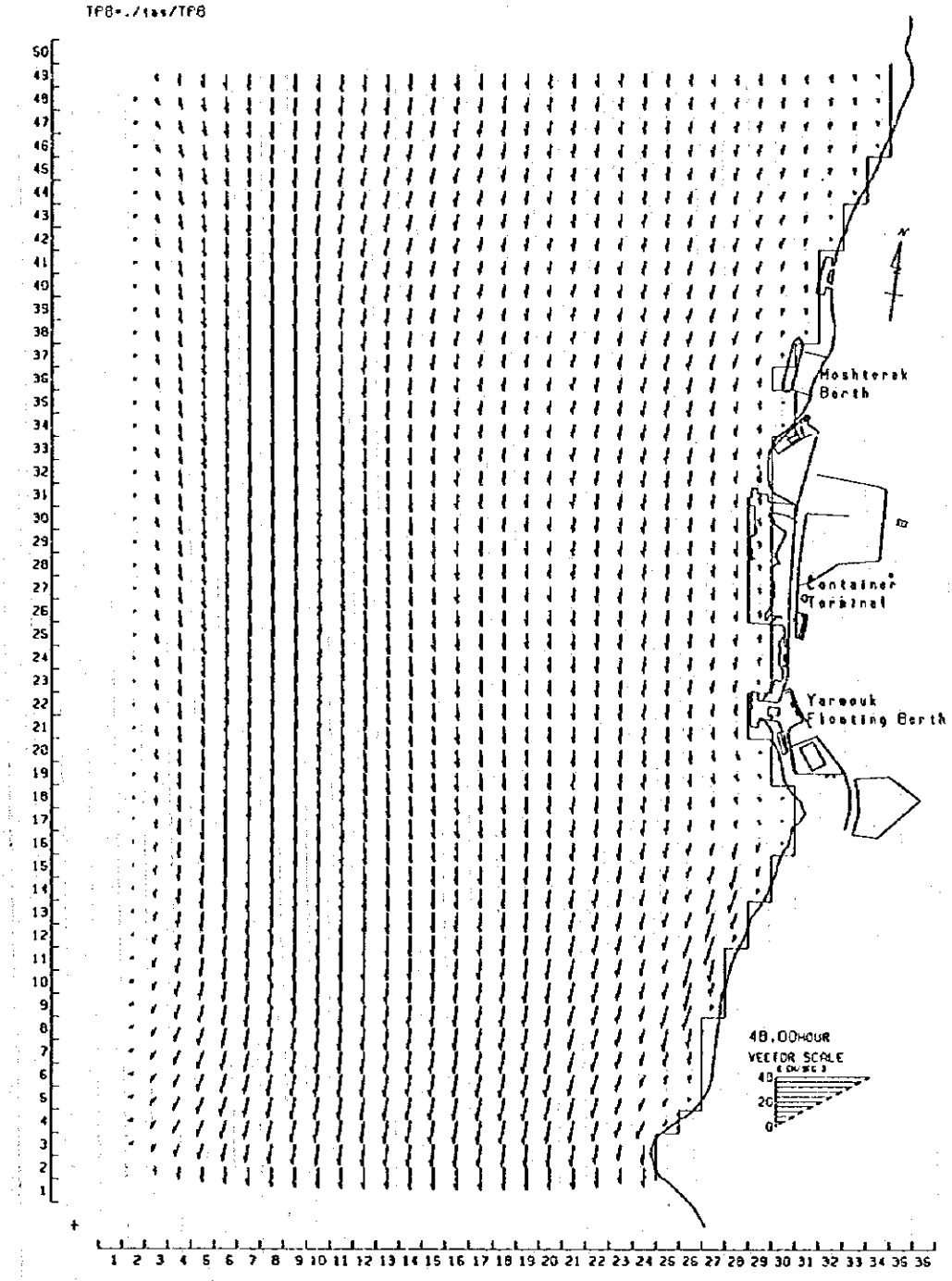
Appendix Figure 6.4.6(1) Result of the Calculation of Current Flow for Container Port at an Ebb Tide



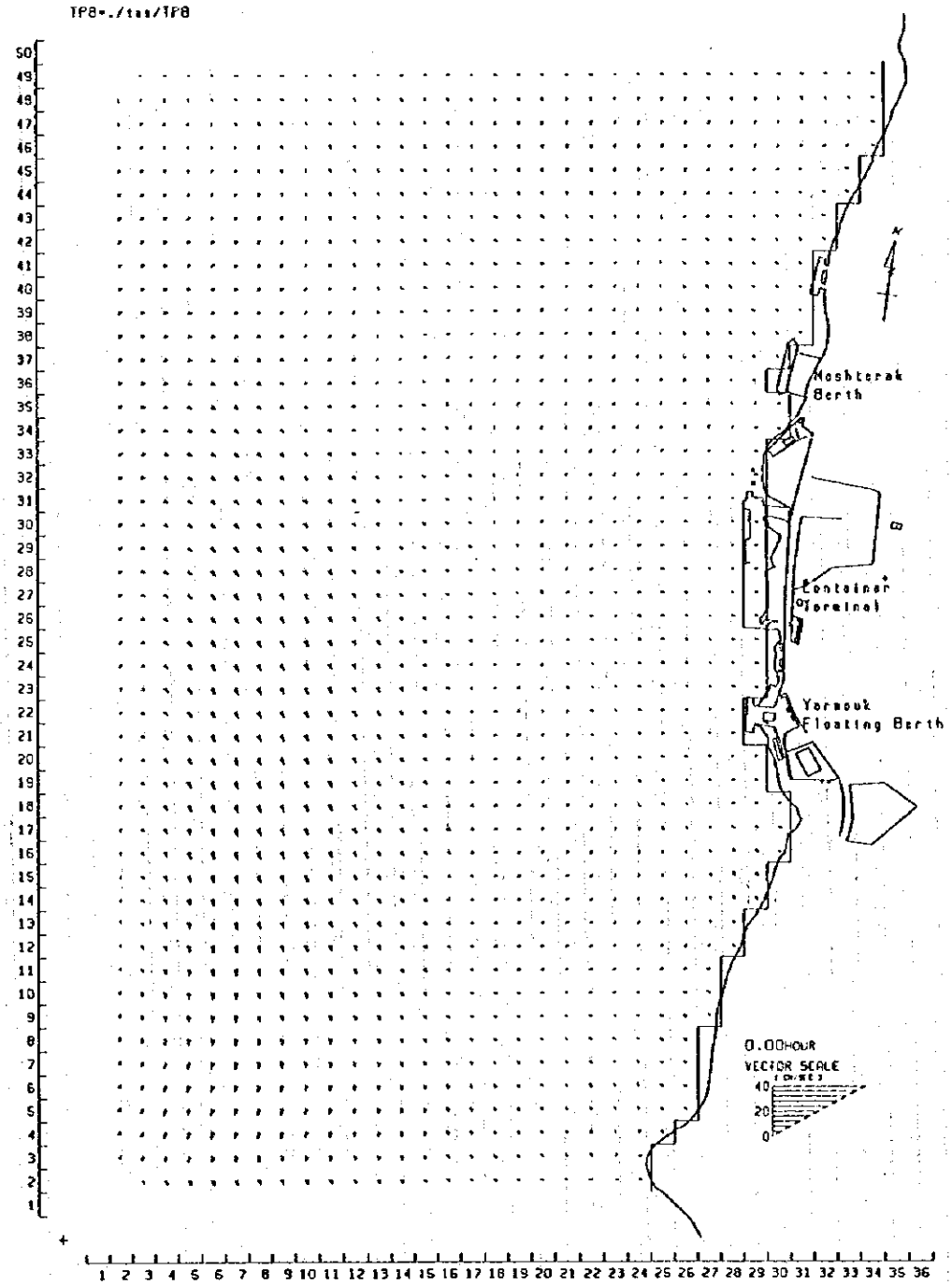
Appendix Figure 6.4.6(2) Result of the Calculation of Current Flow for Container Port at a Low Tide



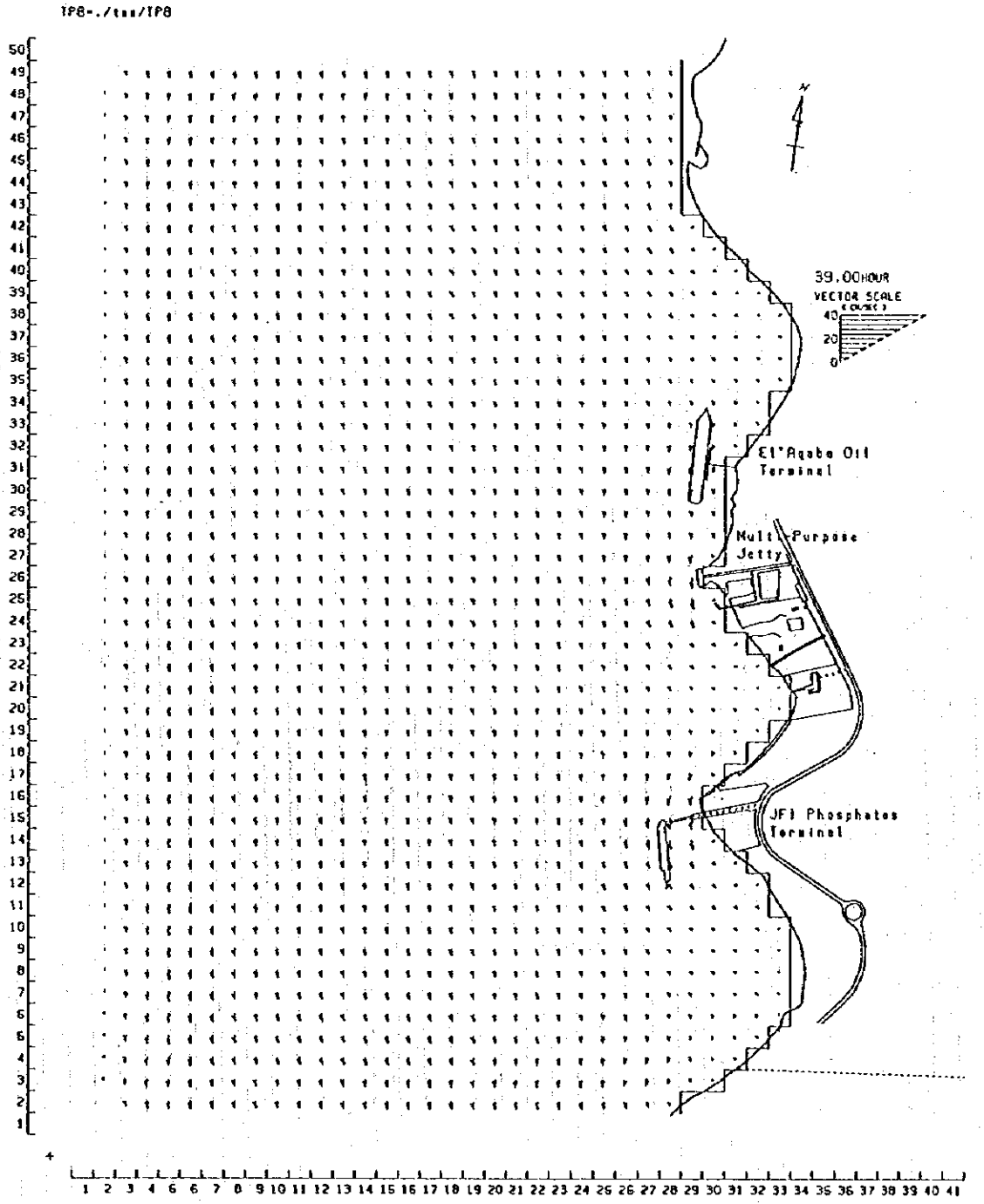
Appendix Figure 6.4.6(3) Result of the Calculation of Current Flow for Container Port at a Flood Tide



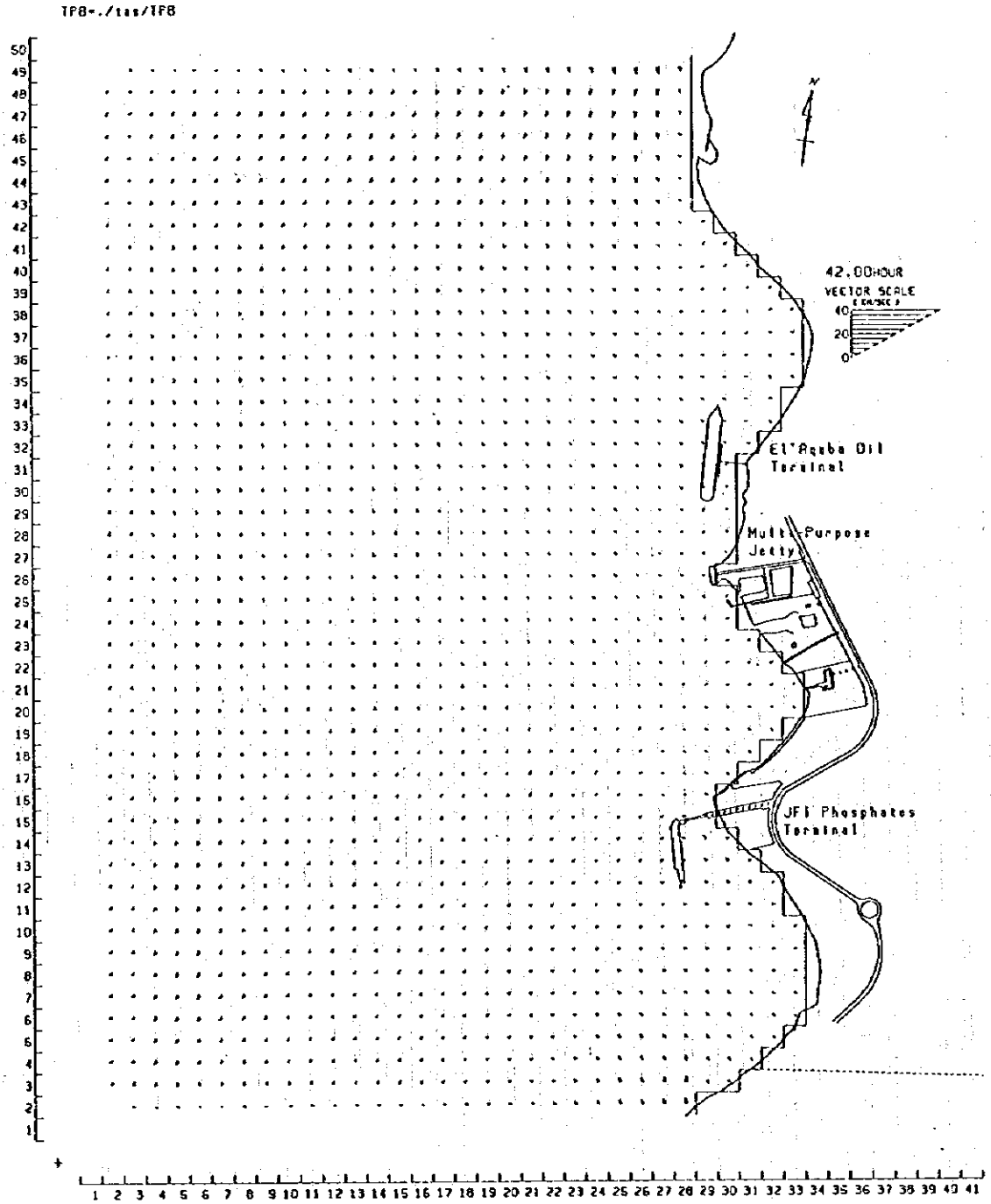
Appendix Figure 6.4.6(4) Result of the Calculation of Current Flow for Container Port at a High Tide



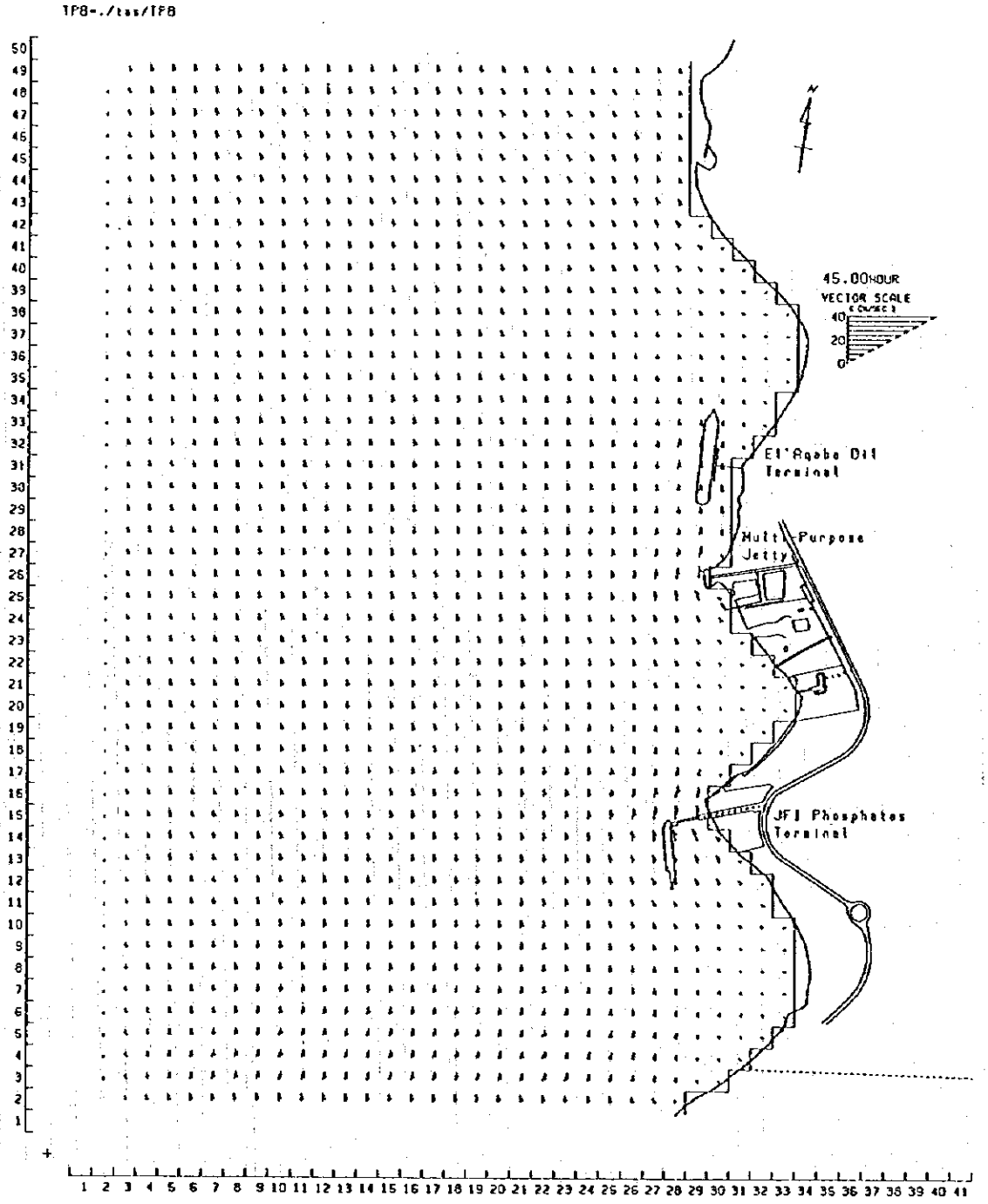
Appendix Figure 6.4.6(5) Result of the Calculation of Average Current Flow for Container Port



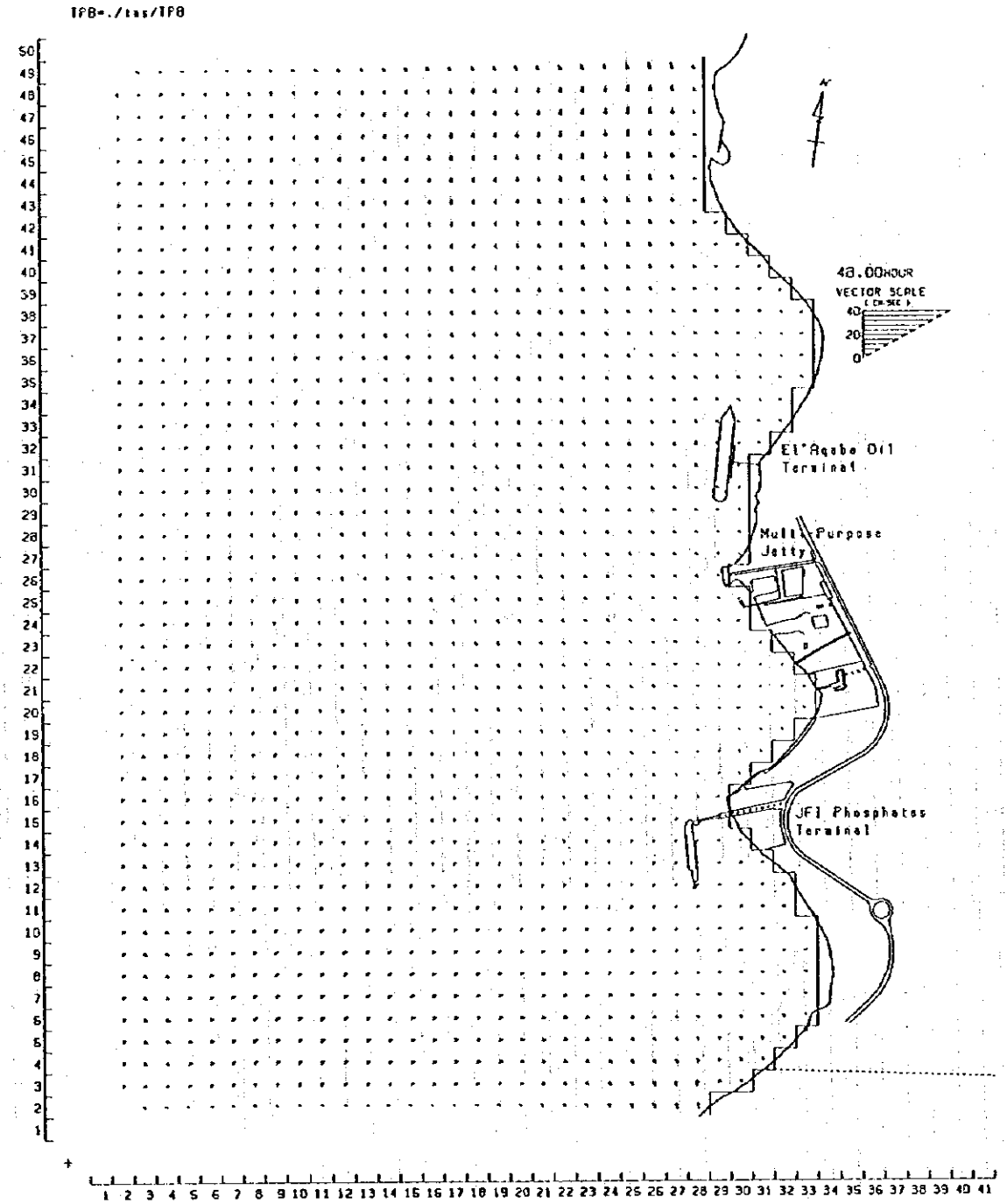
Appendix Figure 6.4.7(1) Result of the Calculation of Current Flow for Industrial Port at an Ebb Tide



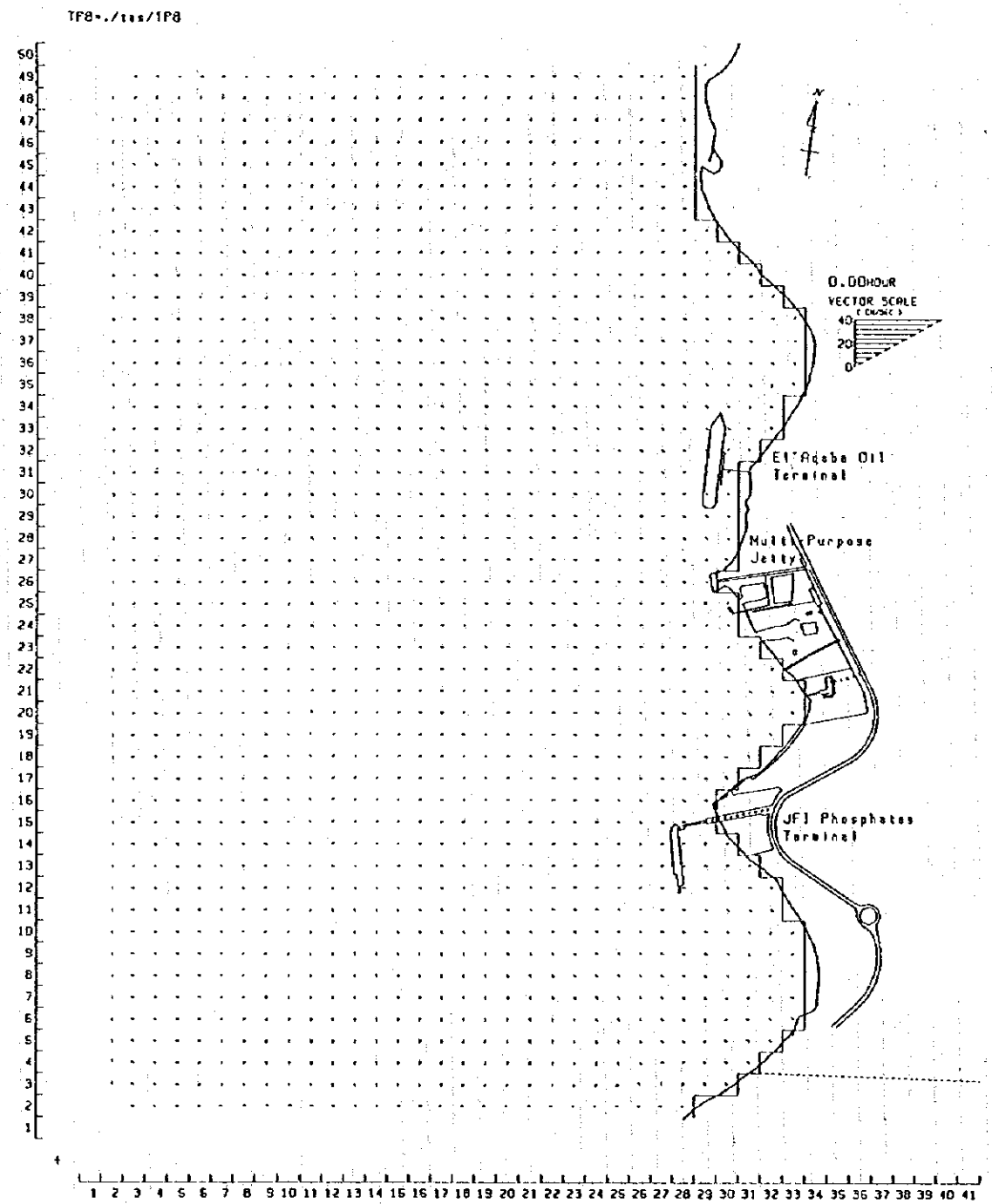
Appendix Figure 6.4.7(2) Result of the Calculation of Current Flow for Industrial Port at a Low Tide



Appendix Figure 6.4.7(3) Result of the Calculation of Current Flow for Industrial Port at a Flood Tide



Appendix Figure 6.4.7(4) Result of the Calculation of Current Flow for Industrial Port at a High Tide



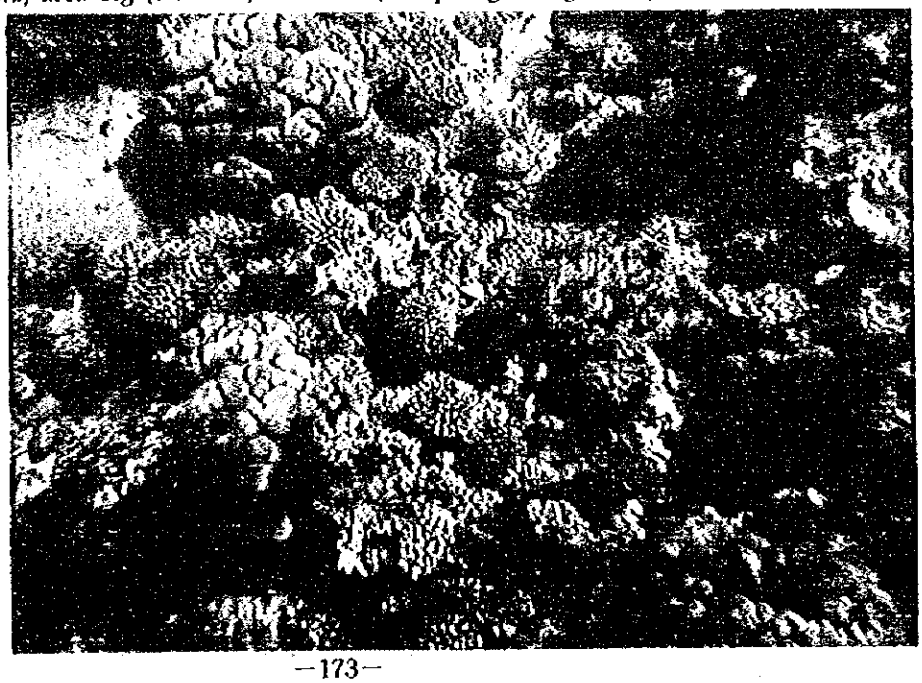
Appendix Figure 6.4.7(5) Result of the Calculation of Average Current Flow for Industrial Port

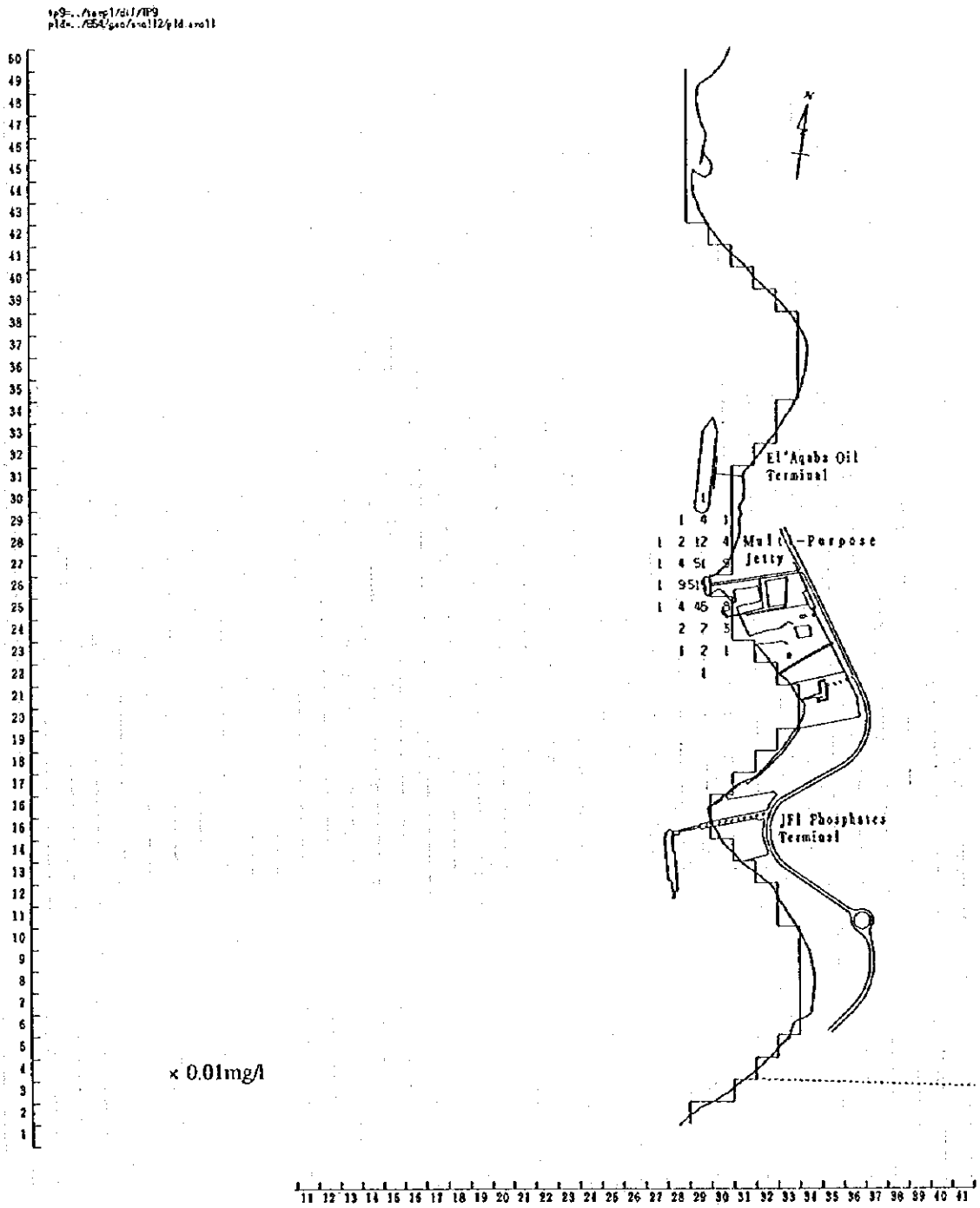
Appendix Table 6.4.2 Occurrence of Coral by Genus Level around the Container Port and Industrial Port

Genus	South to the Container Port (Passenger Port)	Industrial Port
Pocillopora		+
Stylophora	C	+
Acropora	C	C
Acropora	C	C
Acropora	+	
Porites	+	+
Pavona	C	C
Coeloseris		+
Pachyseris	+	
Lobophyllia	+	+
Favites	+	
Platygyra	+	+
Cyphastrea	+	
Millepora		C
Number of genus observed	11	10

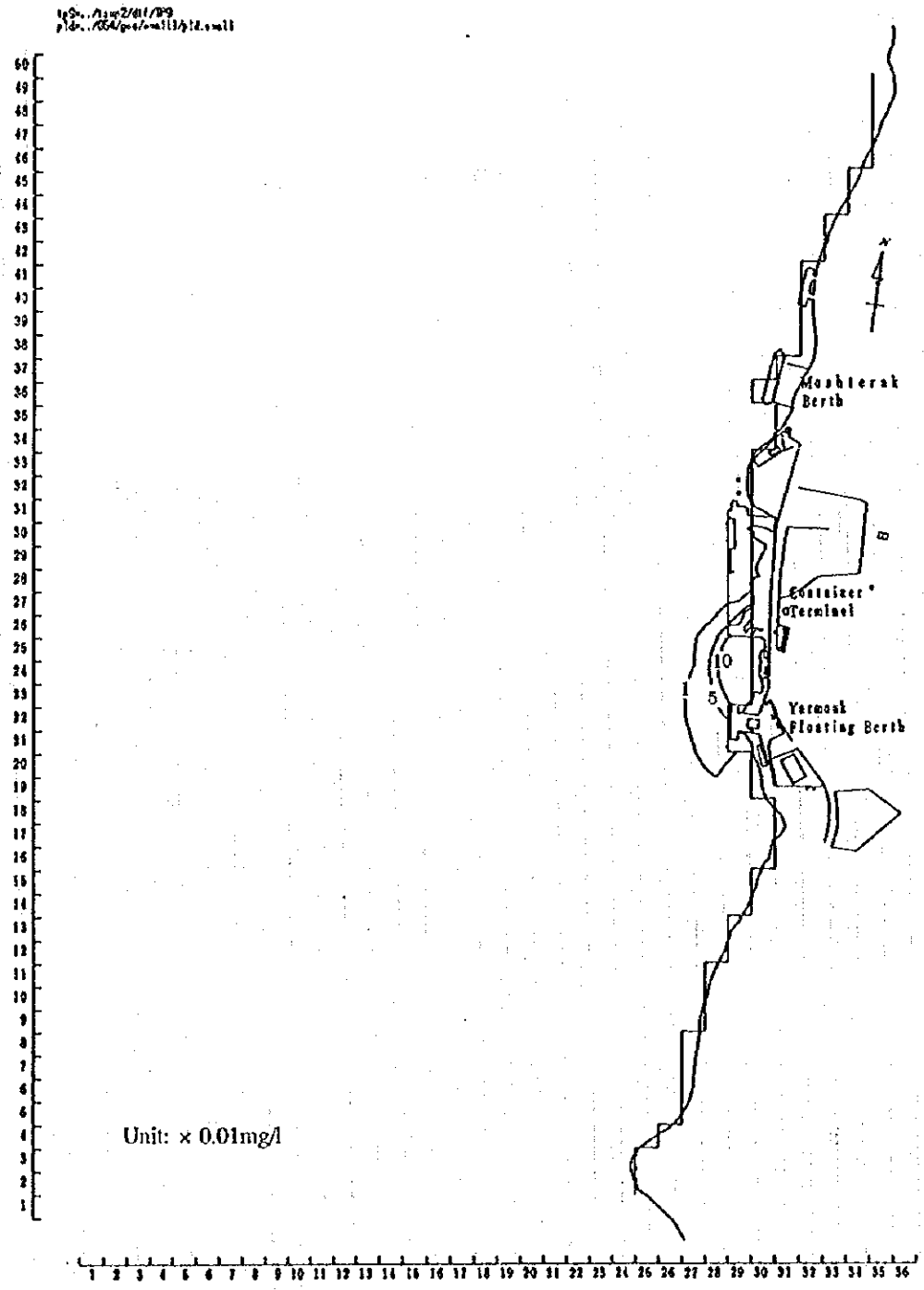
Note: + means "present"
C means "abundant"

Coral communities at both surveyed areas seem to have died once and to have grown again in these several years. This is suggested by facts that all colonies of environmentally sensitive groups, such as *Acropora*, are small (diameter: 20-100cm) in spite of their rapid growth, and that some colonies of more tolerant groups, such as *Porites*, *Pavona*, *Platygyras* and *Millepora*, area big (diameter; 100-200cm) despite growing slowly.

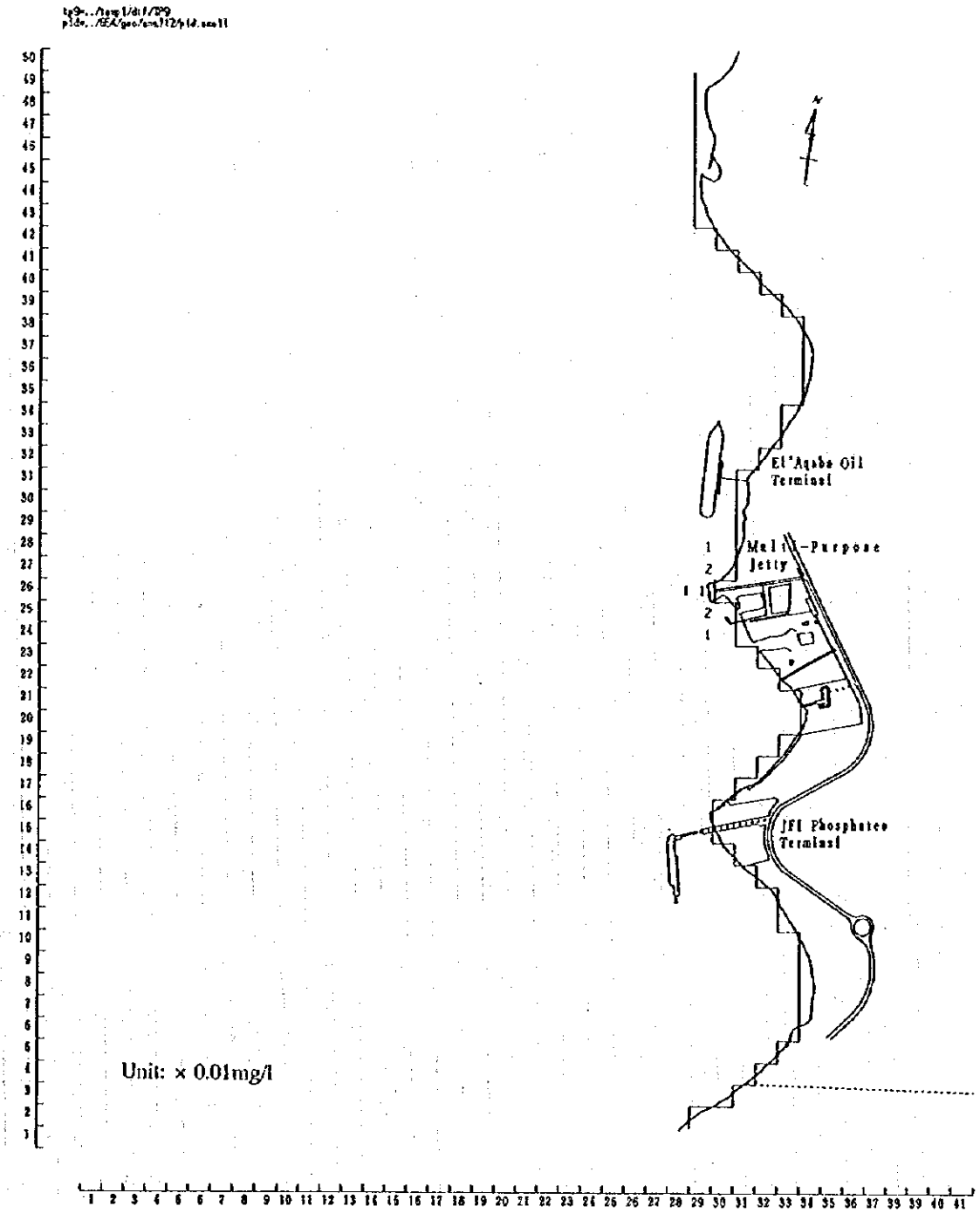




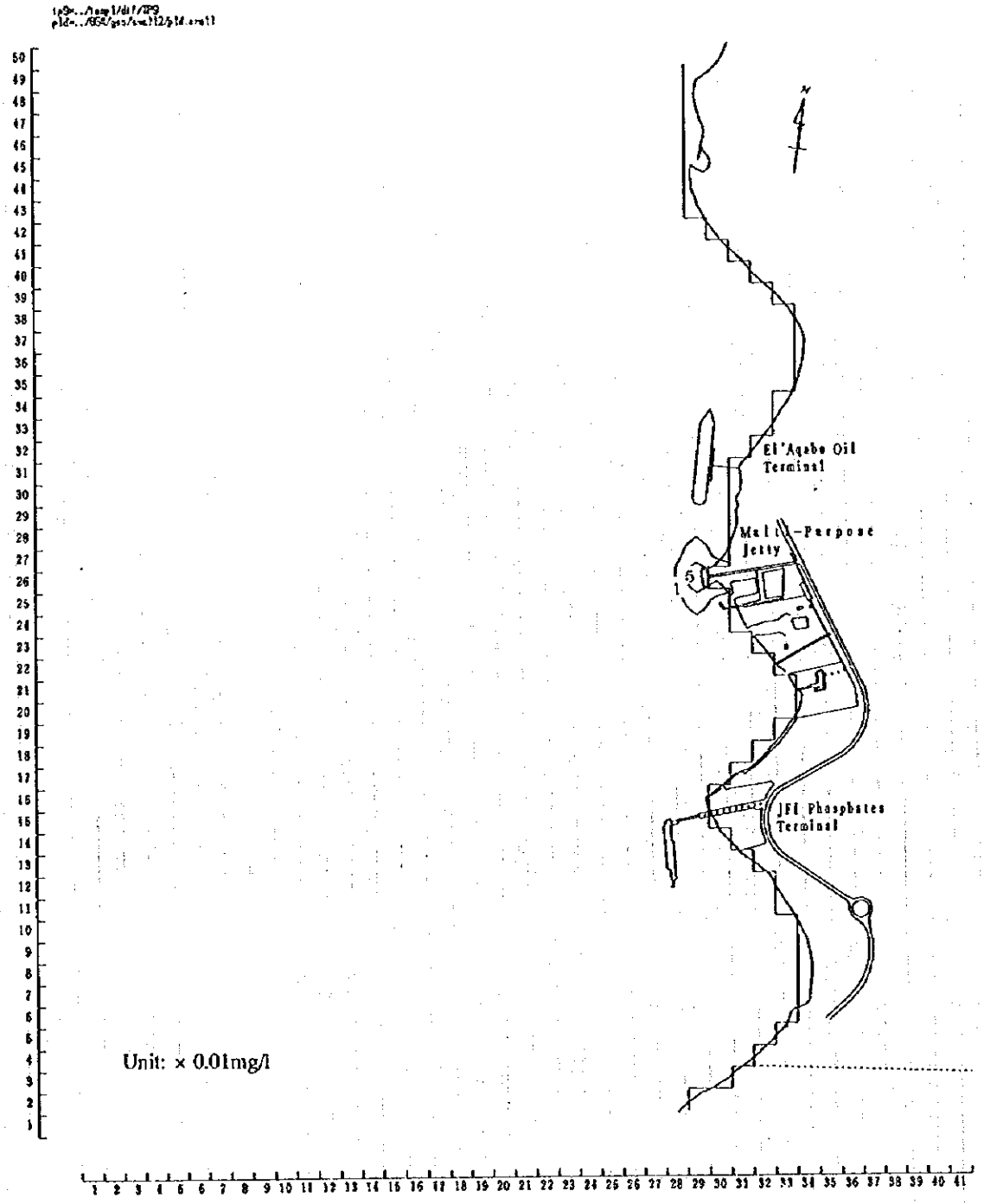
Appendix Figure 6.4.8(1) Maximum SS Concentration in Each Grid (Container Port)



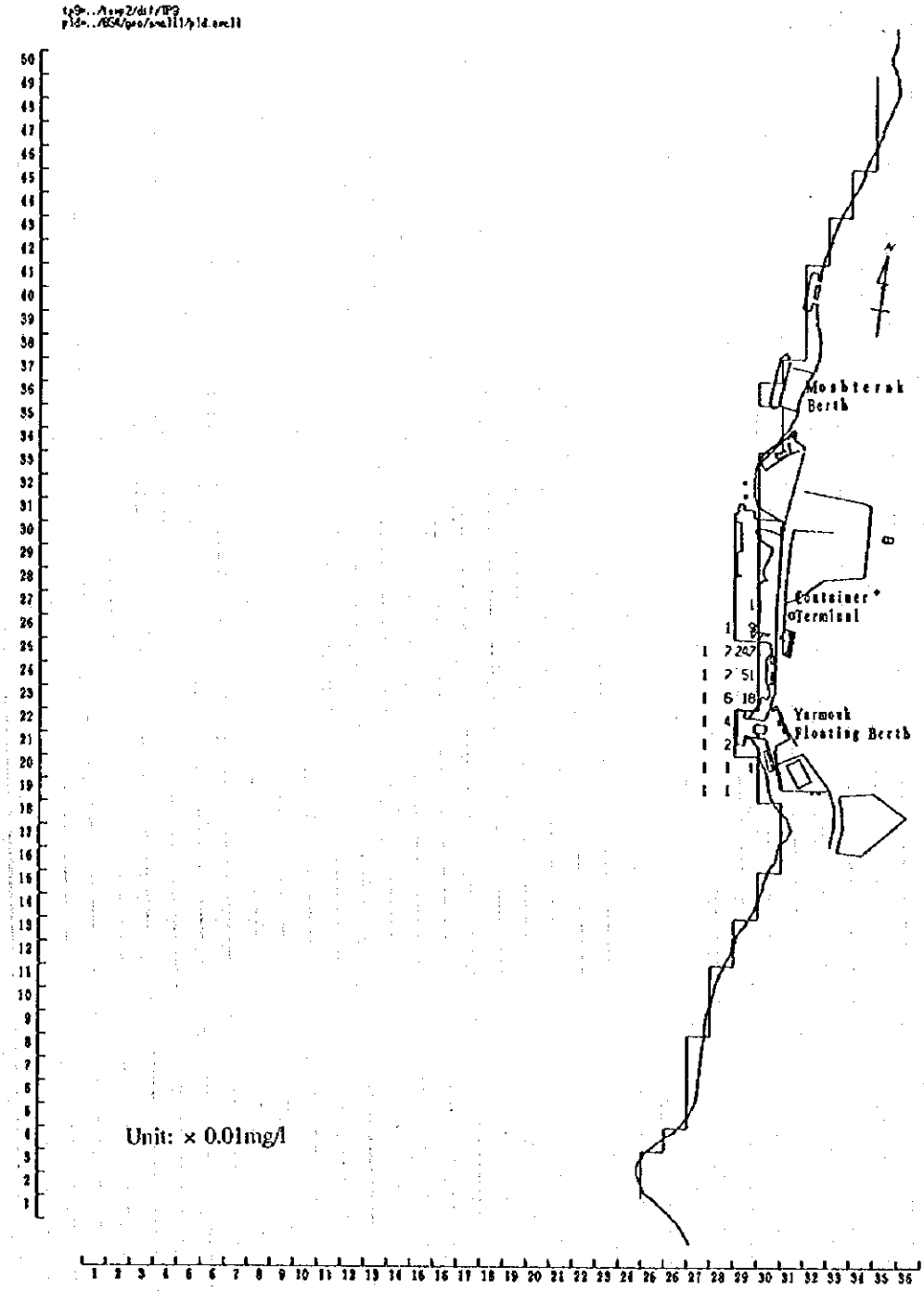
Appendix Figure 6.4.8(2) Horizontal Distribution of Maximum Concentration of SS in Each Grid (Container Port)



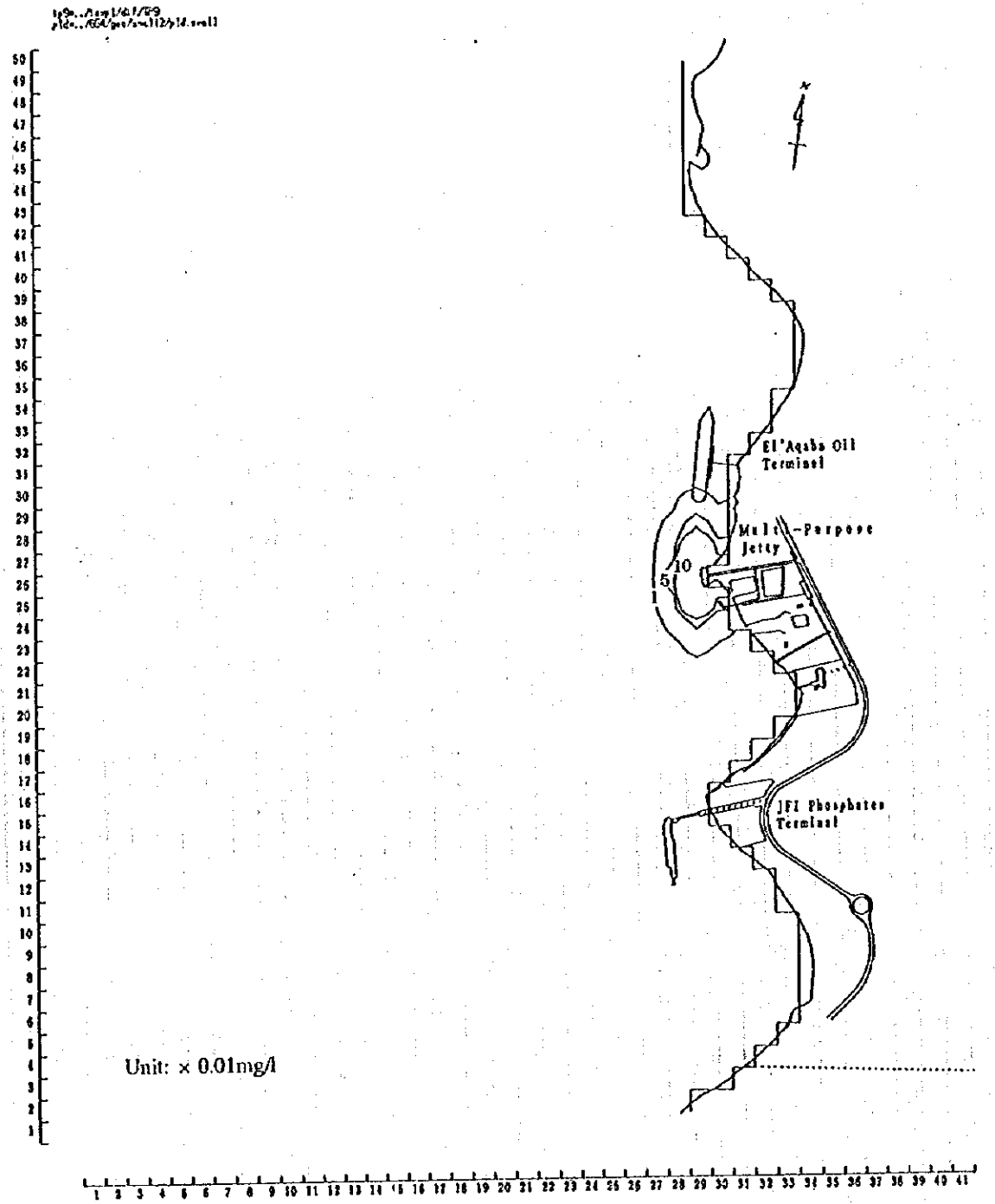
Appendix Figure 6.4.8(3) Daily Mean SS Concentration in Each Grid (Container Port)



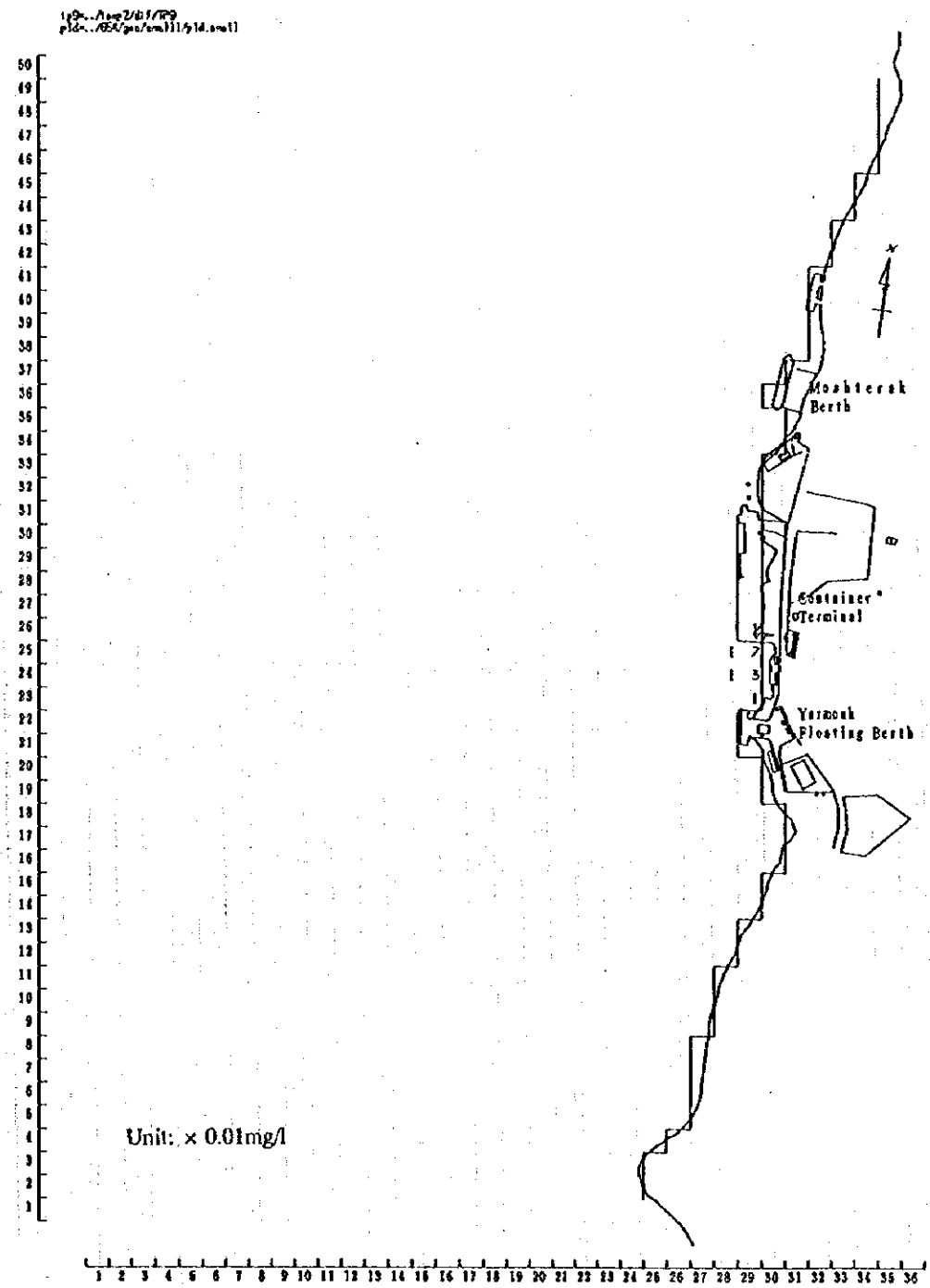
Appendix Figure 6.4.8(4) Horizontal Distribution of Daily Mean Concentration of SS in Each Grid (Container Port)



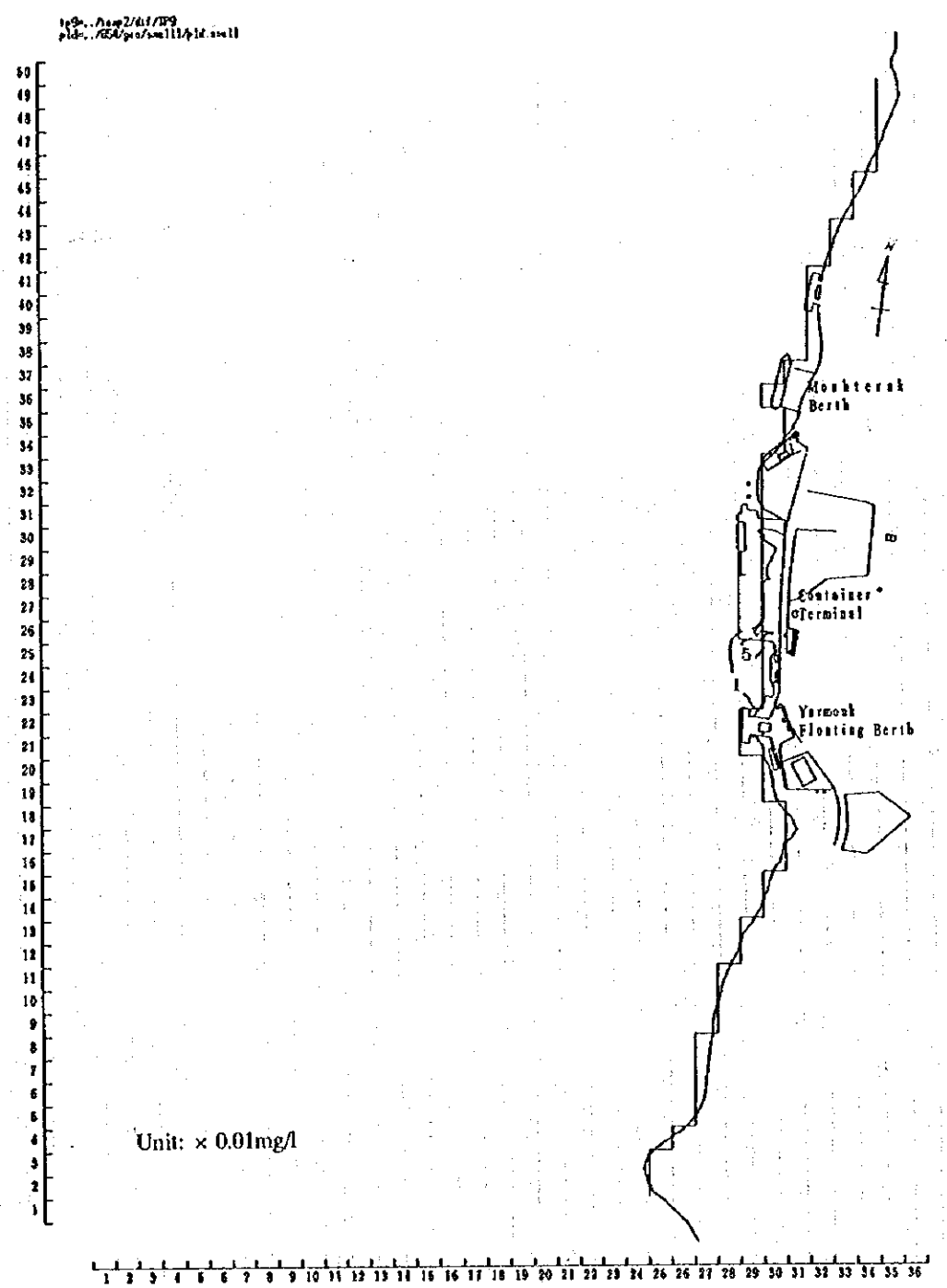
Appendix Figure 6.4.9(1) Maximum SS Concentration in Each Grid (Industrial Port)



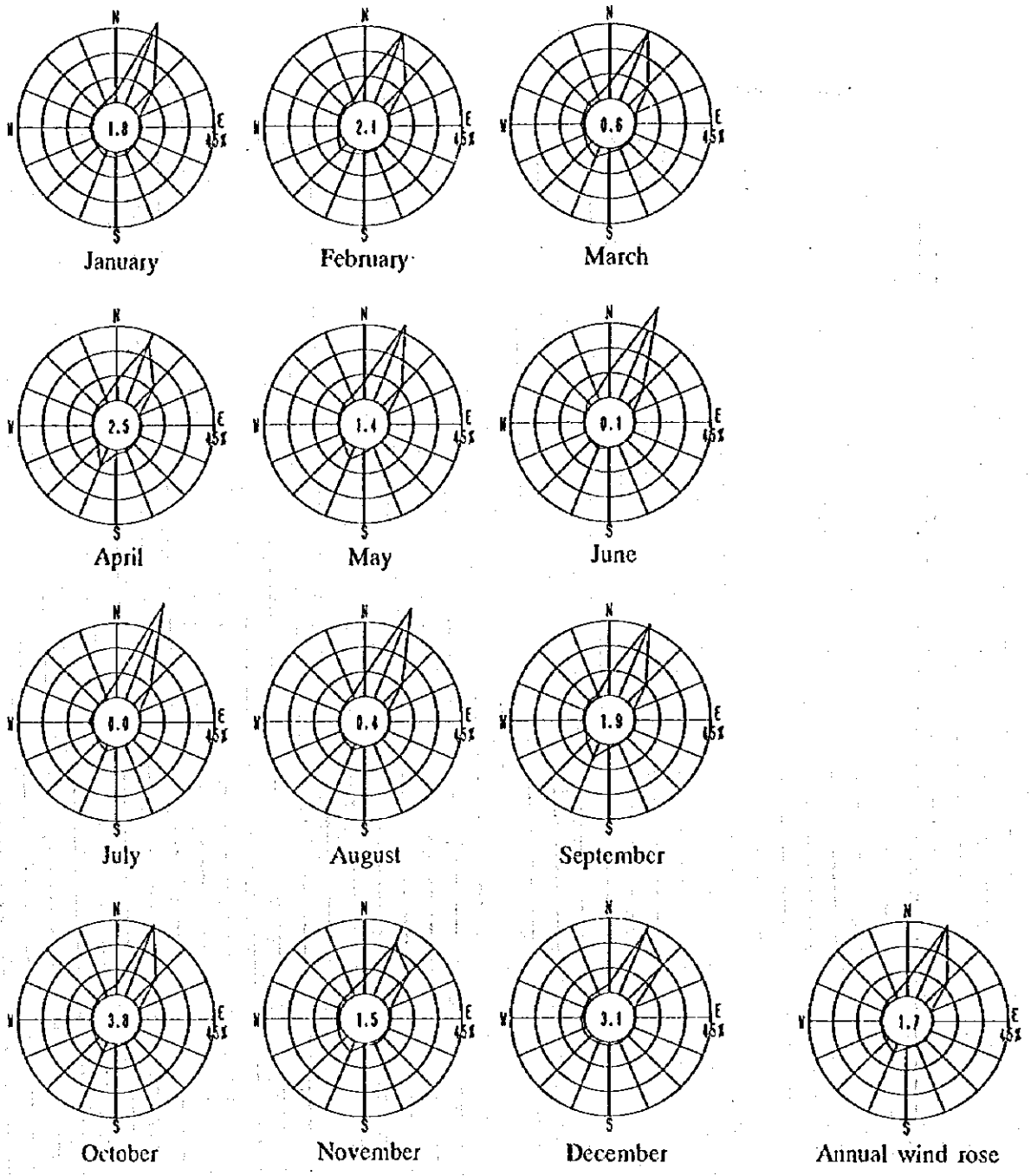
Appendix Figure 6.4.9(2) Horizontal Distribution of Maximum Concentration of SS in Each Grid (Industrial Port)



Appendix Figure 6.4.9(3) Daily Mean SS Concentration in Each Grid (Industrial Port)



Appendix Figure 6.4.9(4) Horizontal Distribution of Daily Mean Concentration of SS in Each Grid (Industrial Port)



* Numerals in the core mean percentage occurrence of calm condition of less than 0.5/s.

Appendix Figure 6.4.10 Wind Rose

JICA