FIGURES

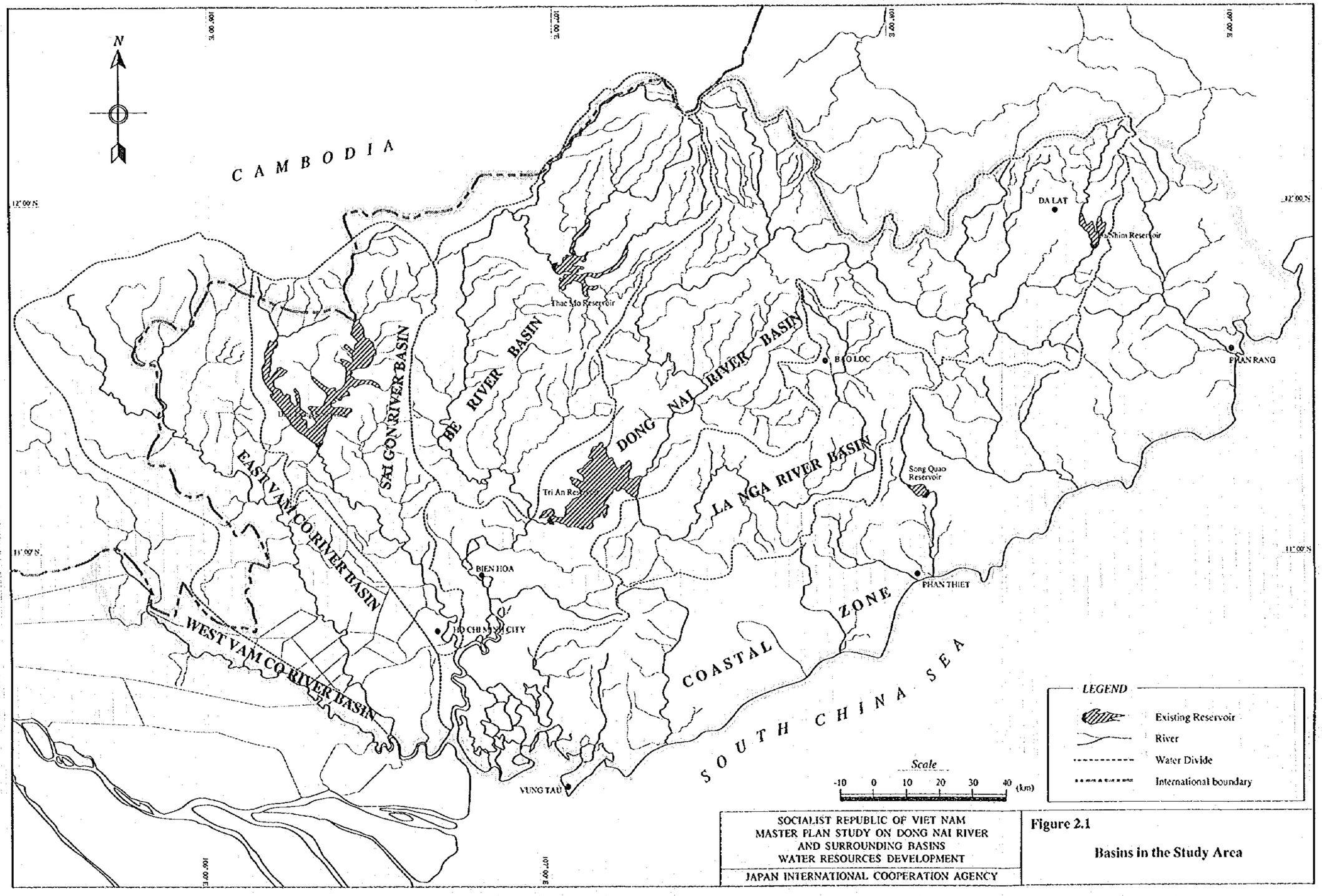

Figure 2.1

Basins in the Study Area

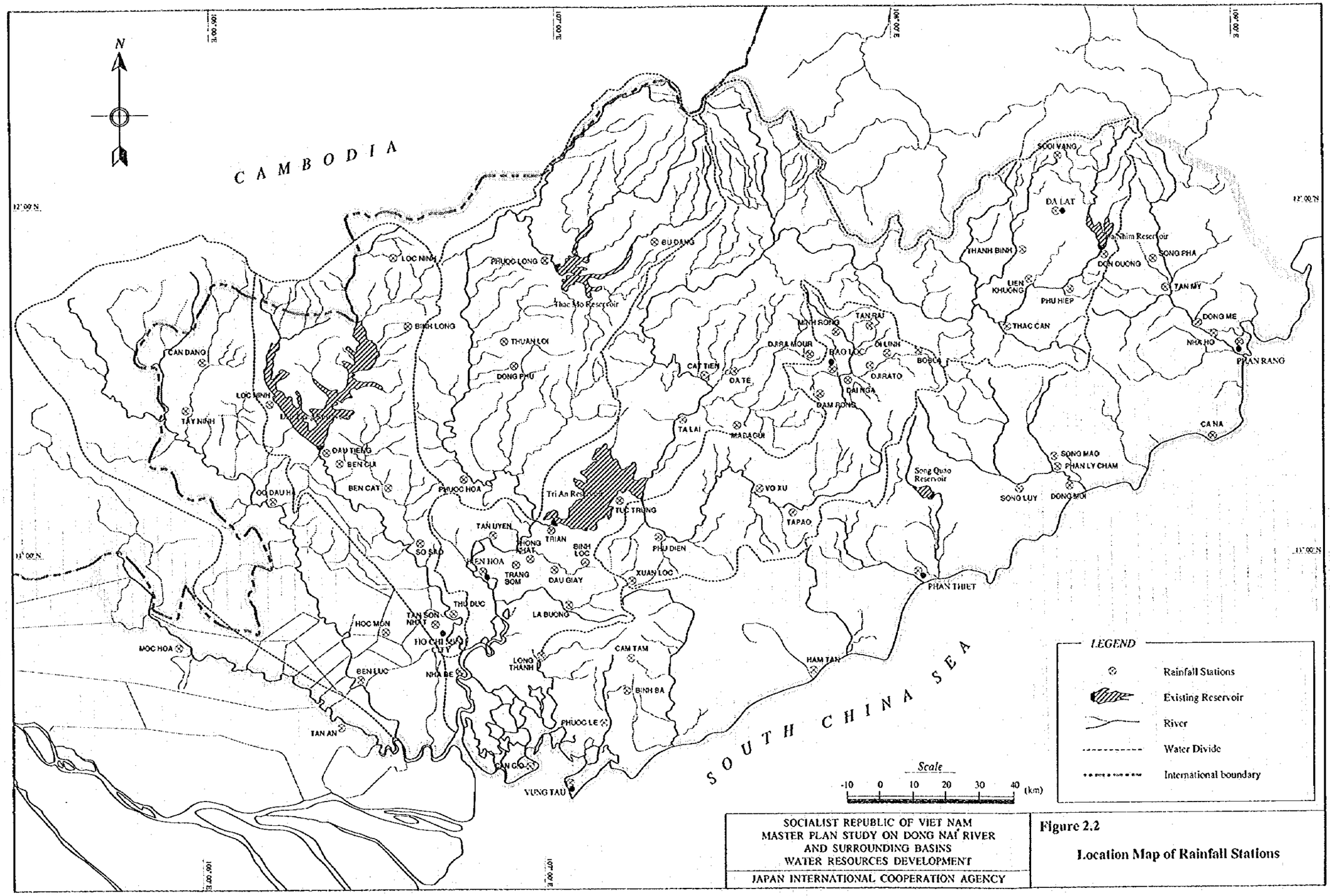

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Figure 2.2

Location Map of Rainfall Stations

No.	Name of Station	Coordinates			Operation Status
1	AN LOC	D-		'B	Stop
2	BAO LOC	107.12	D- 10.56	'B	Continue
3	BEN CAT	106.35	D- 11.09	'B	Continue
4	BEN CUI	106.20	D- 11.16	'B	Stop
5	BEN LUC				Continue
6	BIEN HOA	106.49	D- 10.57	'B	Continue
7	BINH BA	107.14	D- 10.37	'B	Continue
8	BINH LOC				Stop
9	BINH LONG	106.36	D- 11.38	'B	Continue
10	BOBLA	108.01	D- 11.35	'B	Continue
11	CA NA	108.47	D- 11.18	'B	Continue
12	CAM TAM	107.09	D- 10.51	'B (185 m)	Stop
13	CAN DANG	106.00	D- 11.30	'B	Continue
14	CAN GIO	106.59	D- 10.24	'B	Continue
15	CAT TIEN	107.28	D- 11.30	'B	Continue
16	CHON THANH	106.37	D- 11.24	'B	Continue
17	CON SON	Con Son Island			Continue
18	DA AN PIN	107.53	D- 11.32	'B	Stop
19	DA LAT	108.26	D- 11.57	'B	Continue
20	DA TEN				Continue
21	DAI NGA	107.52	D- 11.32	'B (800 m)	Continue
22	DAM' RONG	107.50	'D- 11.31	'B (800 m)	Stop
23	DAU GIAY	107.03	D- 10.56	'B	Stop
24	DAU TIENG	106.20	D- 11.18	'B	Continue
25	DI LINH	108.05	D- 11.35	'B	Continue
26	DJRAMOUR	107.57	D- 11.32	'B (800 m)	Stop
27	DJRATO	107.58	D- 11.33	'B (800 m)	Stop
28	DON DUONG	108.35	D- 11.50	'B	Stop
29	DONG ME	108.52	D- 11.40	'B	Stop
30	DONG MOI	108.25	D- 11.12	'B	Stop
31	DONG PHU	106.54	D- 11.32	'B	Continue
32	GO DAU				Continue
33	HAM TAN	107.45	D- 10.41	'B	Continue
34	HOC MON	106.36	D- 10.53	'B	Continue
35	LA BUONG				Continue
36	LIEN KHUONG	108.23	D- 11.45	'B	Continue
37	LOC NINH (SB)	106.35	D- 11.49	'B (760 m)	Continue
38	LOC NINH (TN)	Tren Rach Sanh Doi			Stop
39	LONG THANH	106.56	D- 10.45	'B	Continue
40	VADAGUI	107.32	D- 11.23	'B	Continue

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Figure 2.3
Duration of Record at Rainfall Gauging Stations (1/2)

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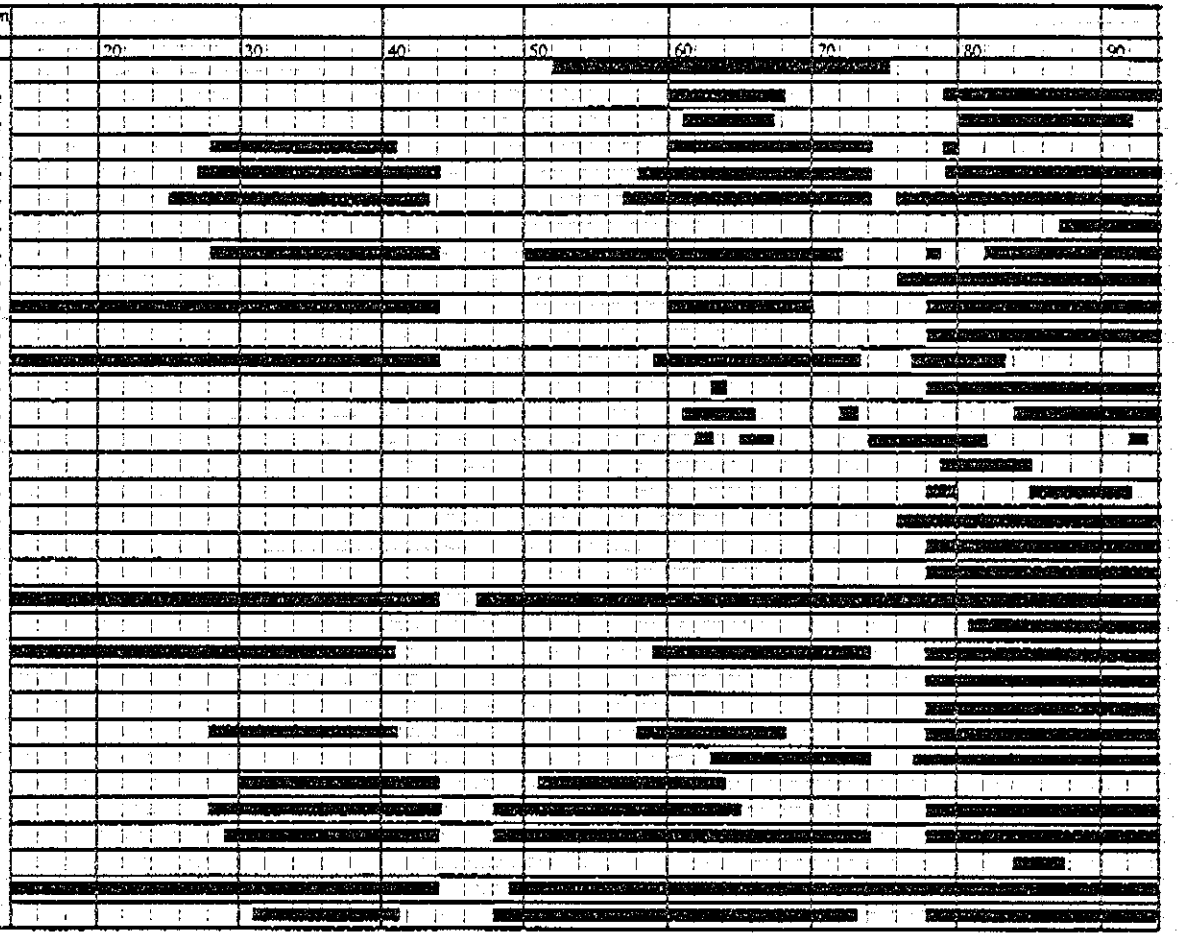
No	Name of Station	Coordinates	Observation Status
41	MINH RONG	107.49 D- 11.36 B (850m)	Stop
42	NHA BE		Continue
43	NHA HO	108.54 D- 11.40 'B	Continue
44	PHAN LY CHAM	108.31 D- 11.13 'B	Stop
45	PHAN RANG	109.00 D- 11.40 'B	Continue
46	PHAN THIET	108.06 D- 10.56 'B	Continue
47	PHU DIEN	X. Phu Dien - H. Tan Phu	Continue
48	PHU HIEP	108.30 D- 11.43 'B (990 m)	Continue
49	PHUOC HOA	106.46 D- 11.14 'B	Continue
50	PHUOC LE	107.10 D- 10.29 'B	Continue
51	PHUOC LONG	106.59 D- 11.50 'B	Continue
52	SO SAO	X. Tan Dinh - H. Ben Cat	Continue
53	SONG LUY	108.21 D- 11.12 'B	Continue
54	SONG HAO	108.30 D- 11.15 'B	Continue
55	SONG PHA	108.41 D- 11.50 'B	Continue
56	SUOI VANG	108.22 D- 11.59 'B	Stop
57	TA LAI	107.22 D- 11.22 'B	Continue
58	TA PAO	107.43 D- 11.08 'B	Continue
59	TAN MY	108.49 D- 11.23 'B	Continue
60	TAN RAI	107.51 D- 11.43 'B	Continue
61	TAN SON NHAT	106.42 D- 10.47 'B	Continue
62	TAN UYEN	106.48 D- 11.03 'B	Continue
63	TAY NINH	106.10 D- 11.01 'B	Continue
64	THAC CAN	108.17 D- 11.42 'B	Continue
65	THANH BINH	108.18 D- 11.47 'B	Continue
66	THONG NHAT	107.02 D- 10.57 'B	Continue
67	THU DUC	106.45 D- 10.50 'B	Continue
68	THUAN LOI	106.52 D- 11.30 'B	Stop
69	TRI AN	107.05 D- 11.05 B (50 m)	Continue
70	TUC TRUNG	107.12 D- 11.05 'B	Continue
71	VO XU	107.37 D- 11.10 'B	Stop
72	VUNG TAU	107.05 D- 10.20 'B	Continue
73	XUAN LOC	107.14 D- 10.51 'B	Continue



Note Bound: Following stations are located at the same site with differerent name by different regime

Binh Duong = Thu Dau Mot = Phu Cuong

An Loc = Binh Loc

Binh Long = Chon Thanh

Da Ampi = Dai Nga

Figure 2.3 Duration of Record at Rainfall Gauging Stations (2/2)

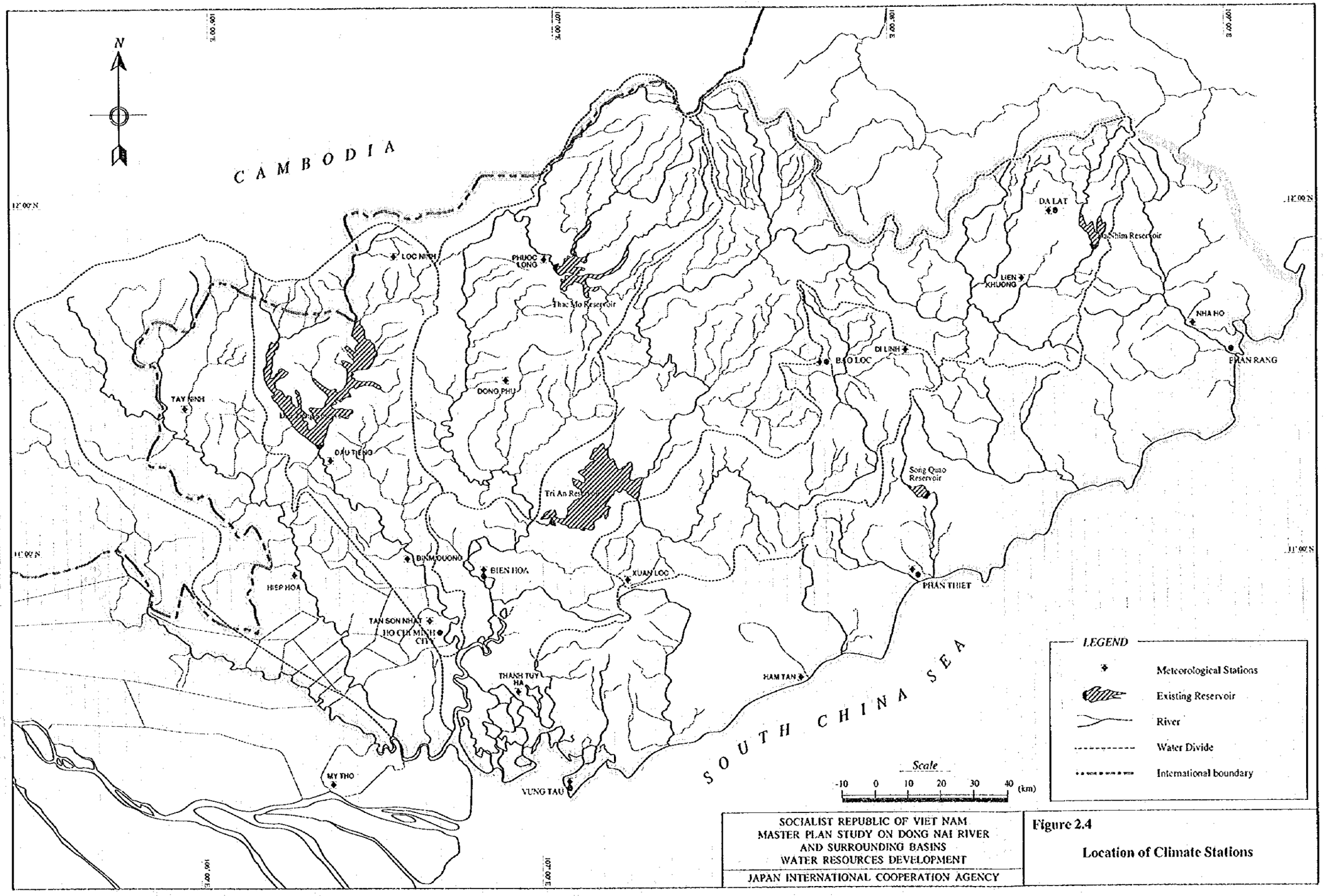


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Figure 2.4

Location of Climate Stations

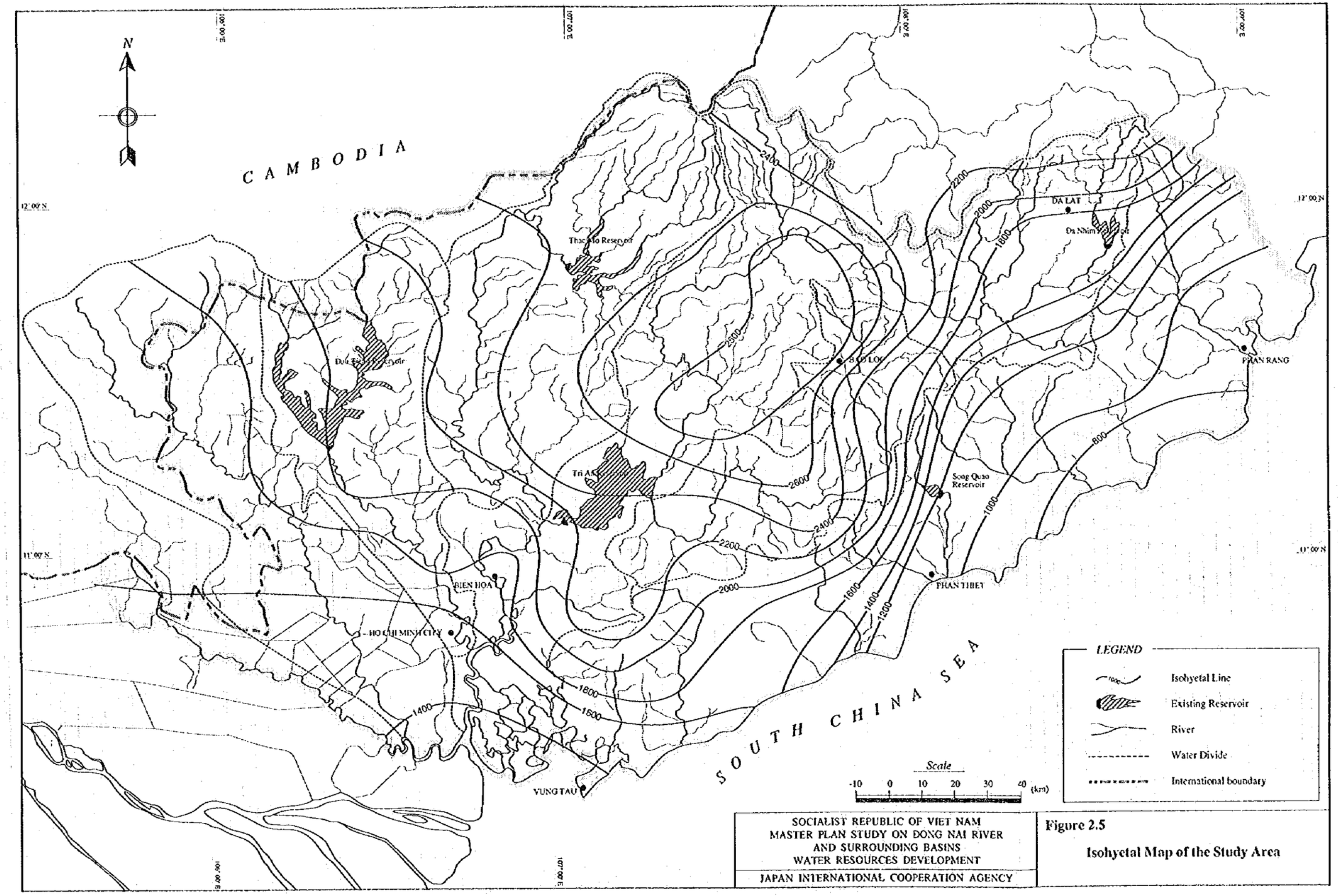
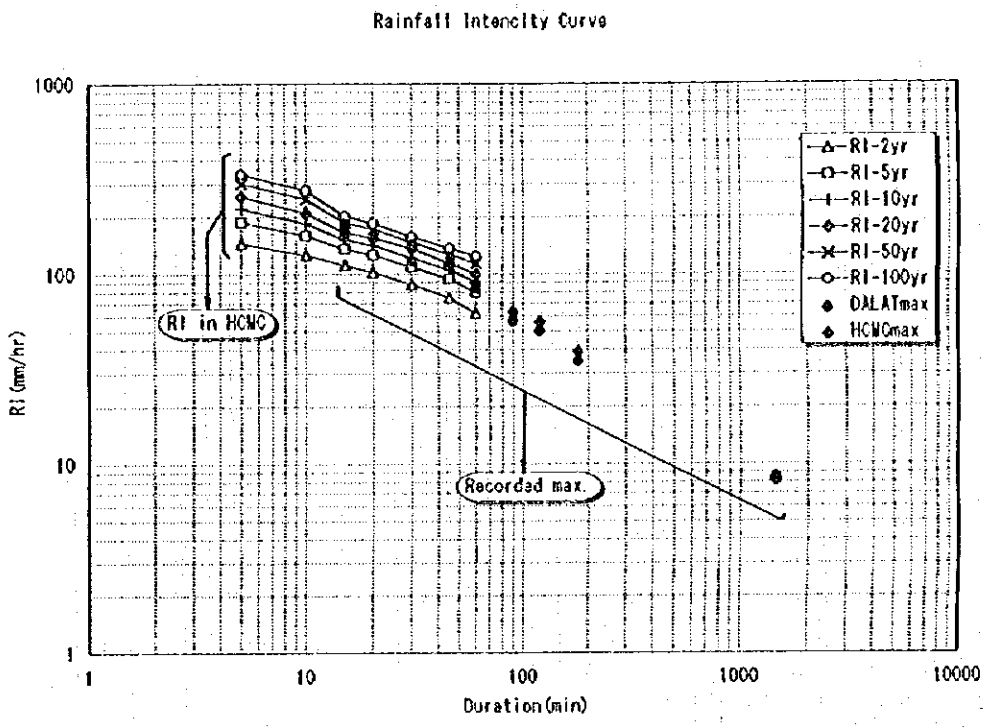


Figure 2.5

Isohyetal Map of the Study Area



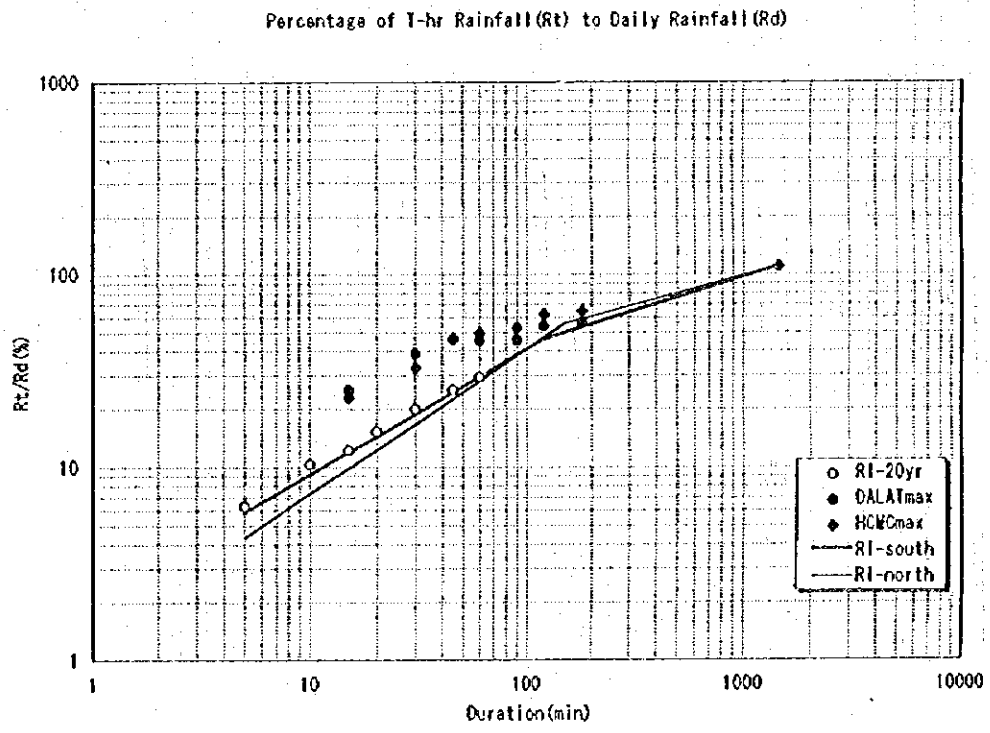


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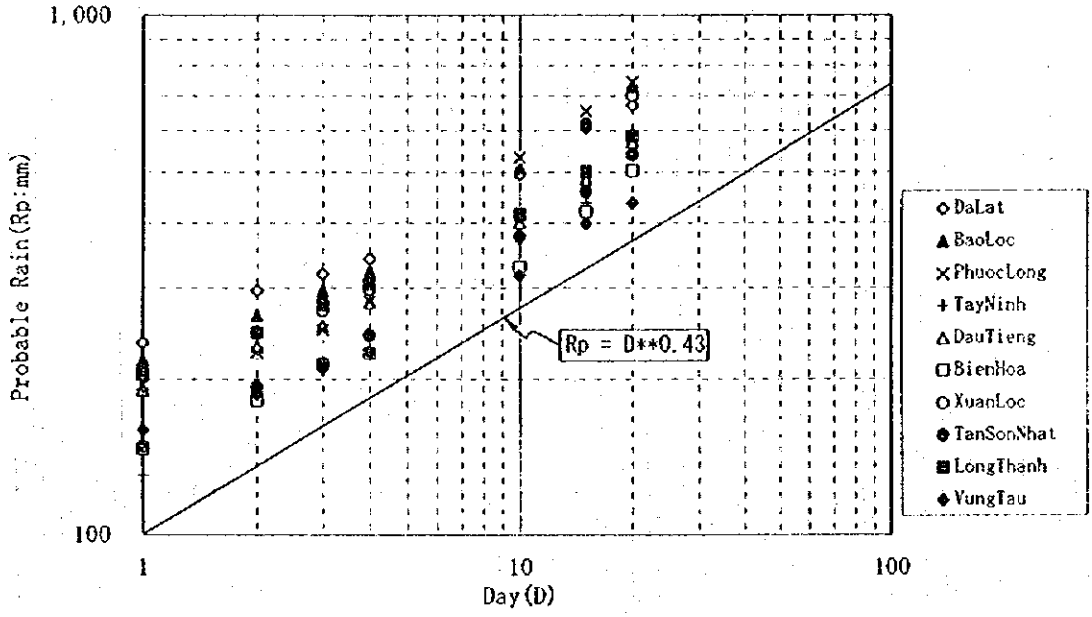
Figure 3.1

Rainfall Intensity for the Short Duration

20-year Probable Rainfall



100-year Probable Rainfall

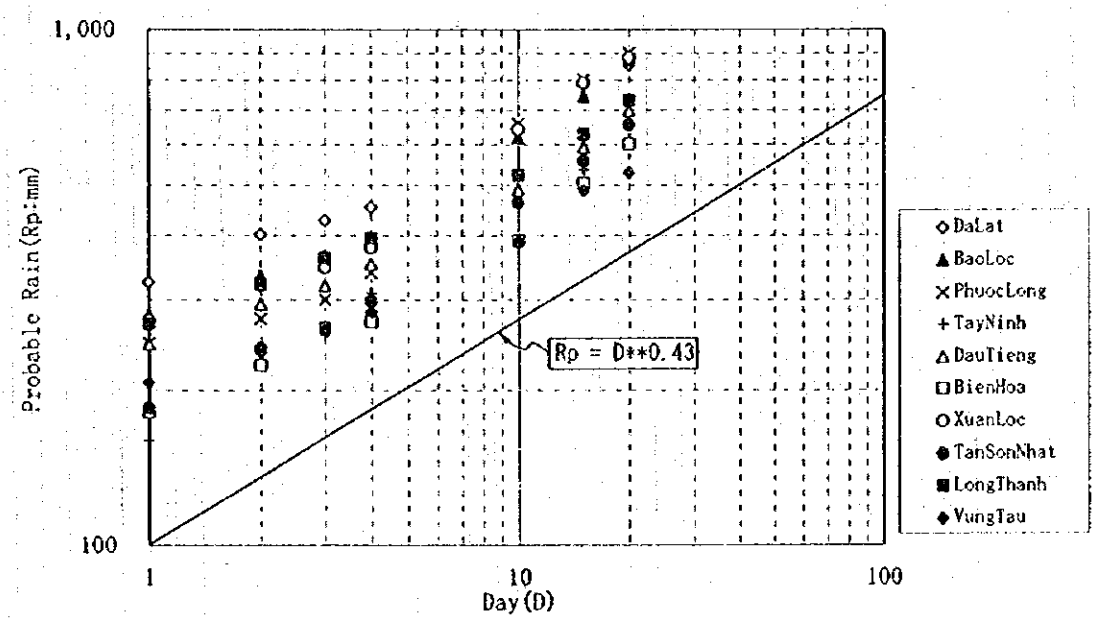


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Figure 3.2

Probable N-day Rainfall

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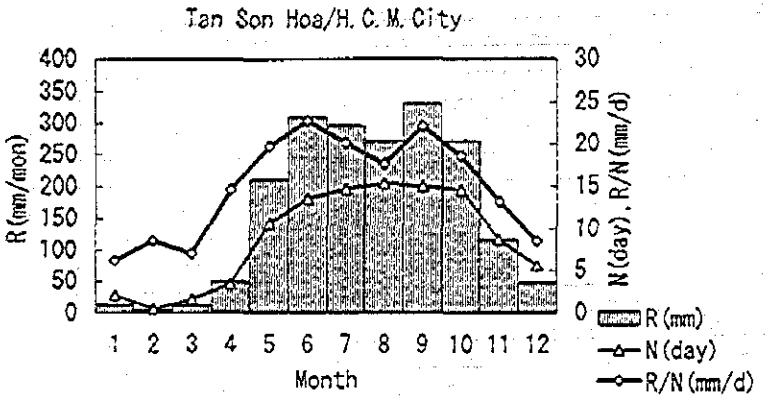

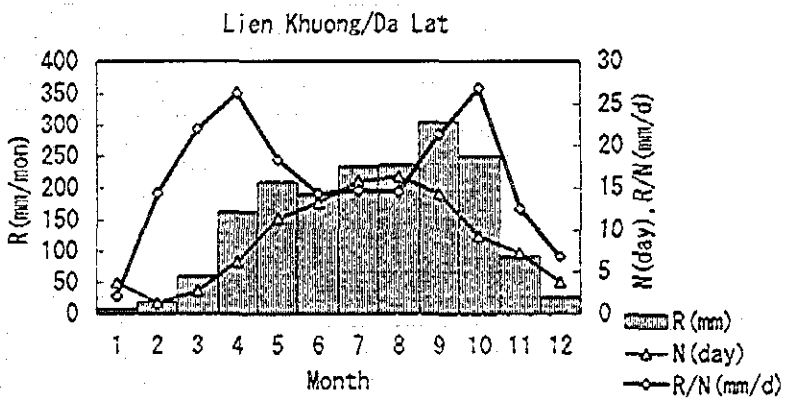

Month	Tan Son Hoa/H. C. M. City			Lien Khuong/Da Lat		
	R (mm)	N (day)	R/N (mm/d)	R (mm)	N (day)	R/N (mm/d)
Jan	13.1	2.1	6.2	7.7	3.7	2.1
Feb	4.3	0.5	8.6	18.7	1.3	14.4
Mar	11.3	1.6	7.1	59.5	2.7	22.0
Apr	49.6	3.4	14.6	163.3	6.2	26.3
May	211.0	10.7	19.7	209.1	11.4	18.3
Jun	309.8	13.6	22.8	190.8	13.3	14.3
Jul	295.8	14.7	20.1	232.7	15.8	14.7
Aug	270.8	15.4	17.6	236.6	16.3	14.5
Sep	331.3	15.0	22.1	305.4	14.3	21.4
Oct	270.9	14.6	18.6	250.3	9.3	26.9
Nov	116.6	8.8	13.3	91.7	7.3	12.6
Dec	47.9	5.6	8.6	26.0	3.8	6.8
Total	1932.4	-	-	1791.8	-	-
Mean	-	8.8	14.9	-	8.8	16.2

(Remarks)
R : Monthly rainfall
N : Number of rainy days
R/N: Average rainy day rainfall

Figure 3.3
Rainy Day Rainfall

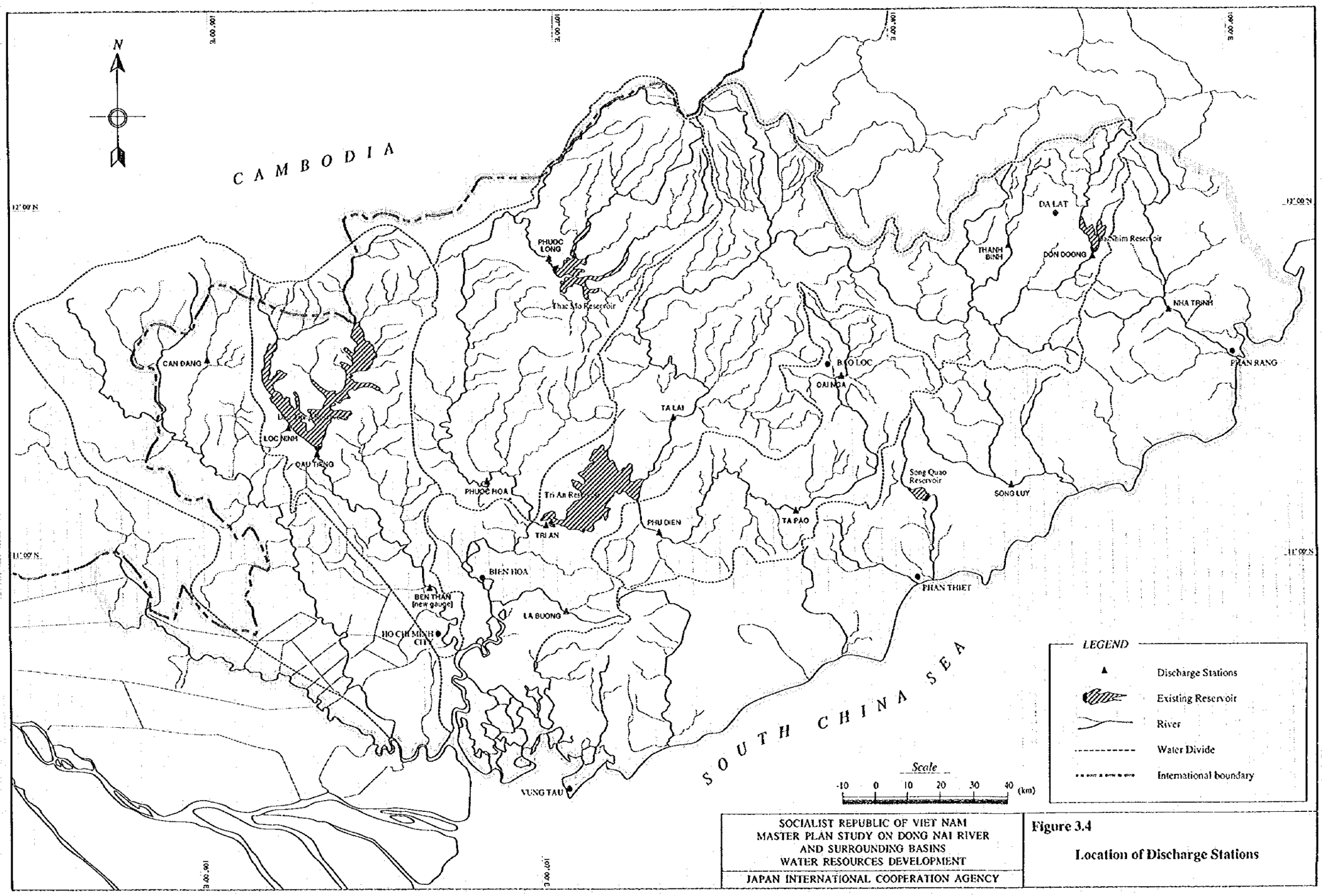

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Figure 3.4

Location of Discharge Stations

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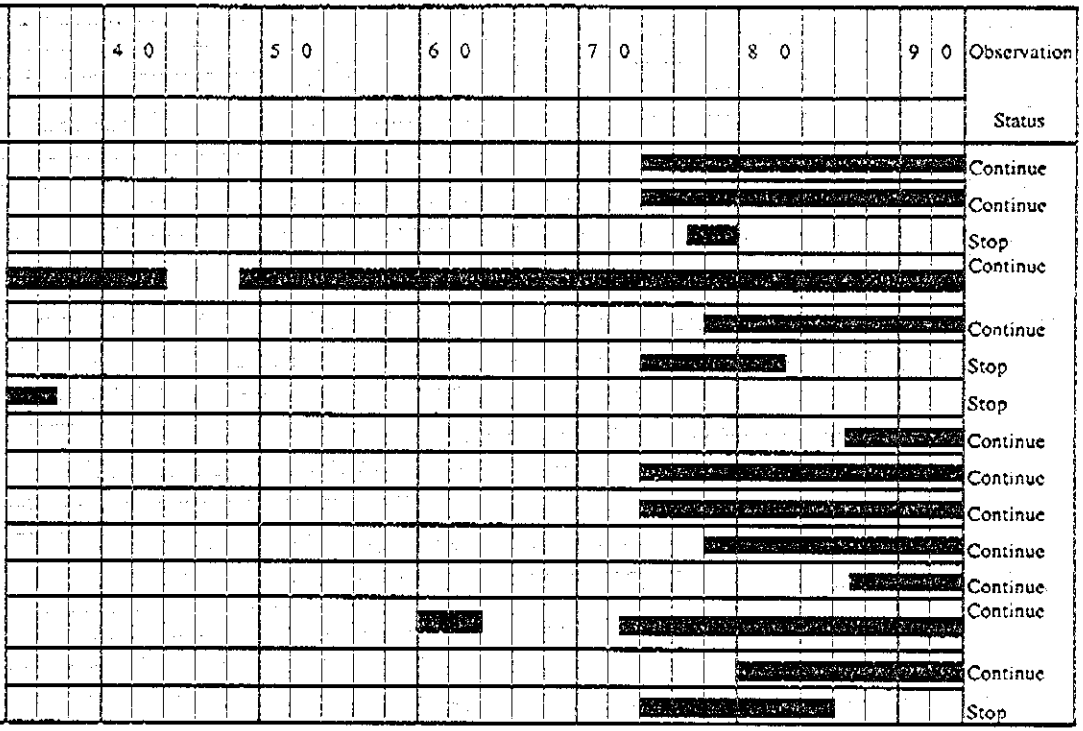
Figure 3.5

Inventory of Discharge Stations

Stream Gauge	River Basin	Catchment Area (km2)	Observation Period	Observation Status
1. CANDANG	Vam Co Dong	617	1974-1992	Continue
2. DAINGA	La Nga	373	1974-1992	Continue
3. DAUTIENG	Sai Gon	2,700	1977-1980	Stop
4. DONDUONG	Da Nhim	775	1934-1944; 1949-1992	Continue
5. ANVIEN	La Buong	264	1978-1990	Continue
6. LOCNINH	Sai Gon	500	1974-1983	Stop
7. NHATRINH	Cai	2,140	1934-1937	Stop
8. PHUDIEN	La Nga	3,060	1987-1992	Continue
9. PHUOCHOA	Be	5,765	1974-1992	Continue
10. PHUOCLONG	Be	2,215	1974-1992	Continue
11. SONGLUY	Luy	982	1978-1992	Continue
12. TALAI	Dong Nai	8,850	1987-1992	Continue
13. TAPAO	La Nga	2,000	1960-1964; 1973-1992	Continue
14. THANHBINH	Da Dung	294	1980-1991	Continue
15. TRIAN	Dong Nai	14,025	1974-1986	Stop



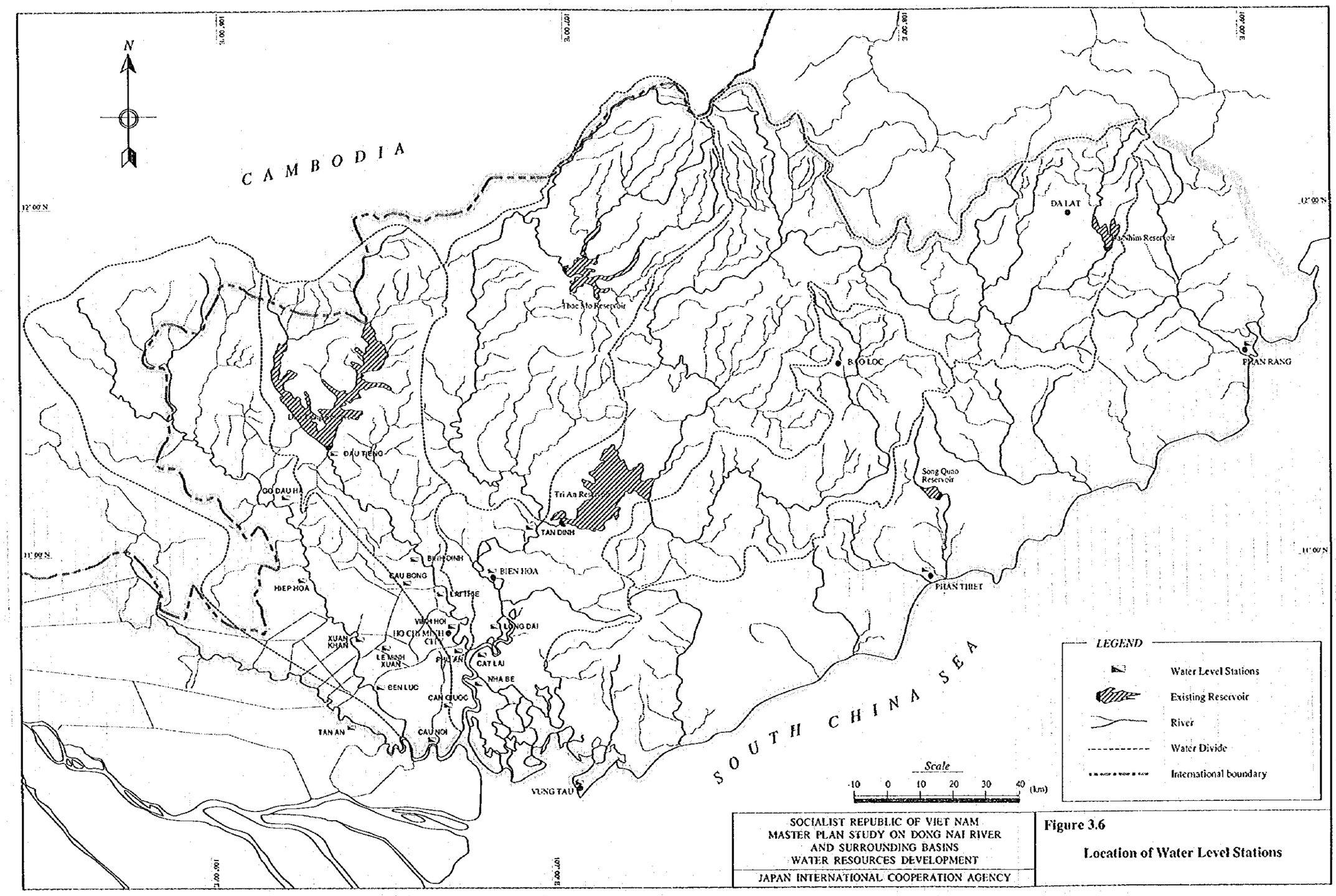


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Figure 3.6

Location of Water Level Stations

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No	ST'N NAME	RIVER	OBSERVED DURATION	N
1	PHU AN	SAI GON	1942-1943.1949-1990	46
2	LAI THIEU	SAI GON	1984-1985	2
3	BINH DUONG	SAI GON	1966-1990	25
4	DAU TIENG	SAI GON	1977-1979	3
5	NHA BE	DONG NAI	1982-1990	9
6	CAT LAI	DONG NAI	1982-1985	4
7	BIEN HOA	DONG NAI	1960-1990	31
8	TAN DINH	DONG NAI	1978-1990	13
9	LONG DAI	DONG NAI	1984-1985	3
10	GO DAU HA	VAM CO DONG	1963-1990	28
11	HIEP HOA	VAM CO DONG	1982-1985	4
12	XUAN KHANH	VAM CO DONG	1982-1985	4
13	BEN LUC	VAM CO DONG	1961-1966.1974-1975.1976.1981-1990	19
14	TAN AN	VAM CO TAY	1940-1975.1976-1990	51
15	CAU NOI	VAM CO	1982-1985.1990	5
16	CAN GIUOC	RACH CHANH	1982-1983	3
17	VUNG TAU	BEN DA	1955-1965.1972-1975.1982-1990	24
18	LE MINH XAUN	NOI DONG	1982-1985	4
19	CAU BONG	NOI DONG	982-1985	4
20	DAO LONG	SONG CAI	1966-1971. 1978-1990	18
21	PHAN THIET	CA TY	1968-1969.1978-1990	15
22	MOC HOA	VAM CO TAY		
23	TUYEN NHON	VAM CO TAY		

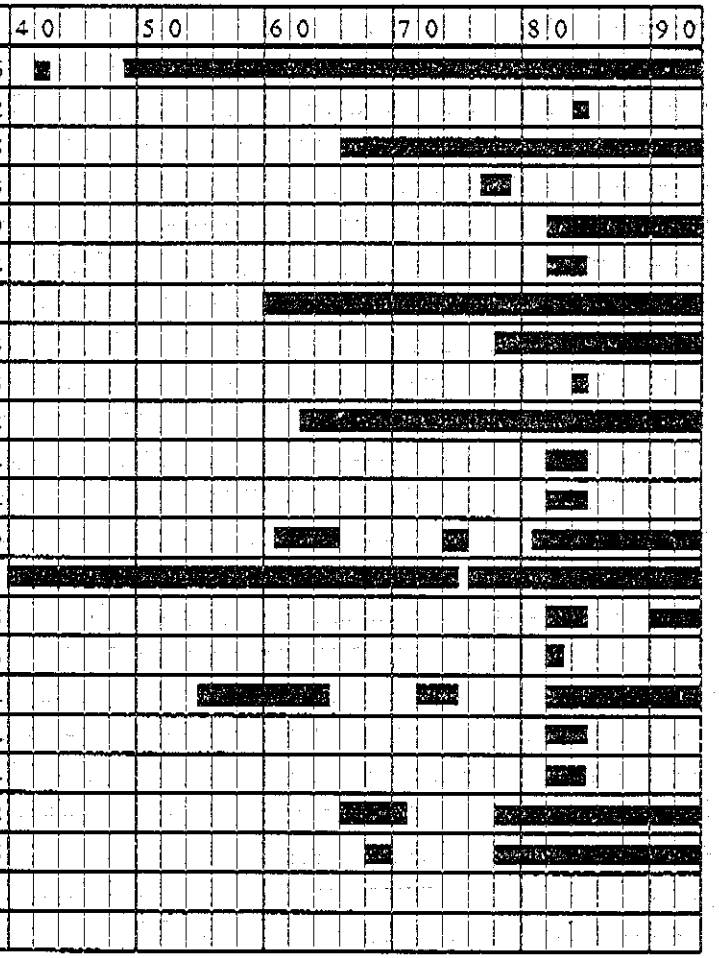

Figure 3.7
List of Water Level Stations in the Study Area

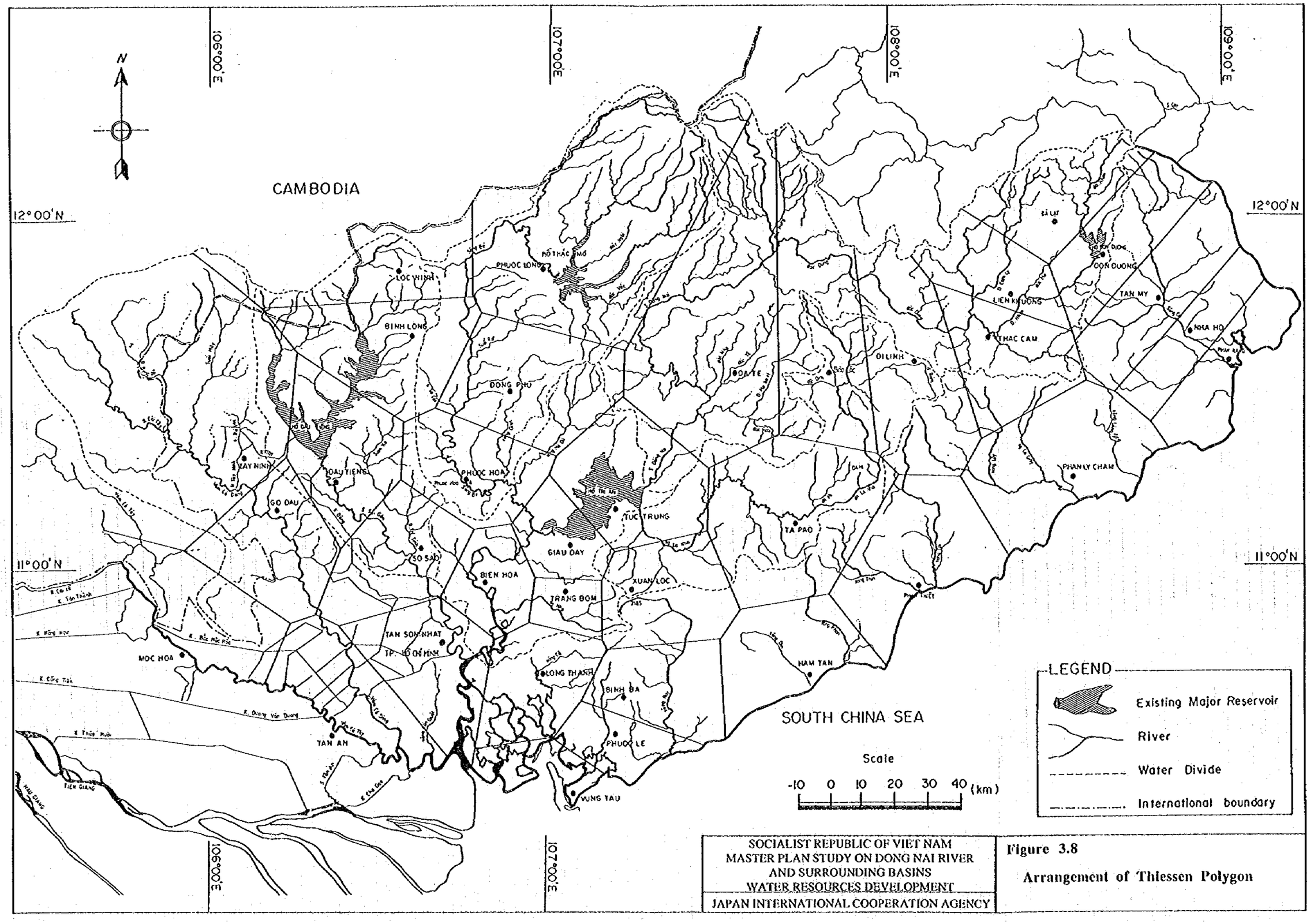

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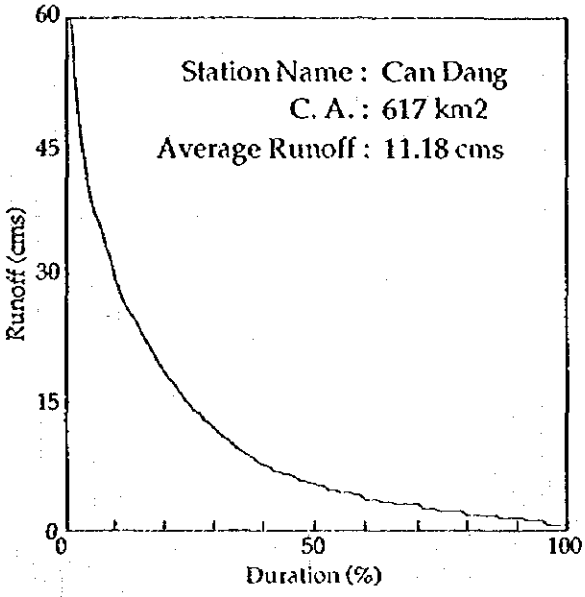
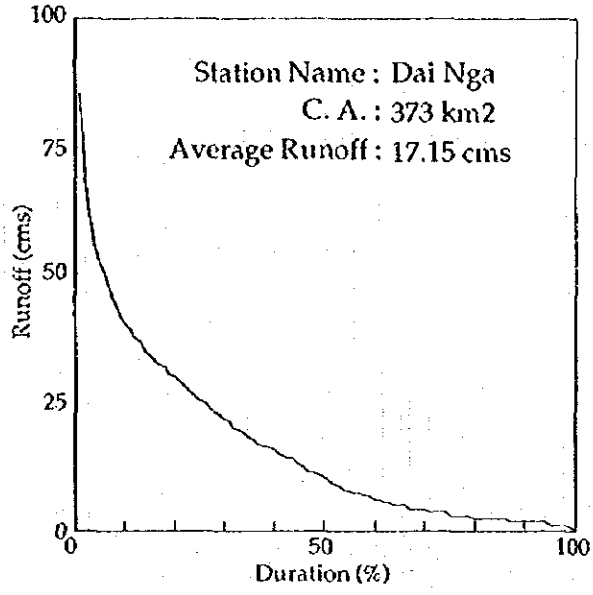
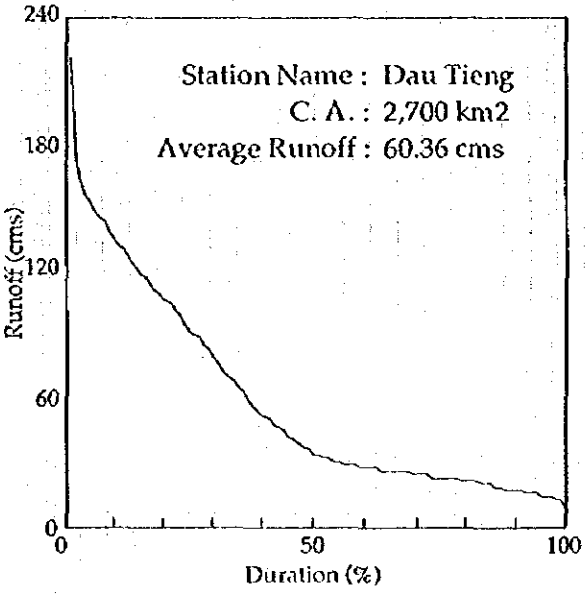
Figure 3.8

Arrangement of Thiessen Polygon







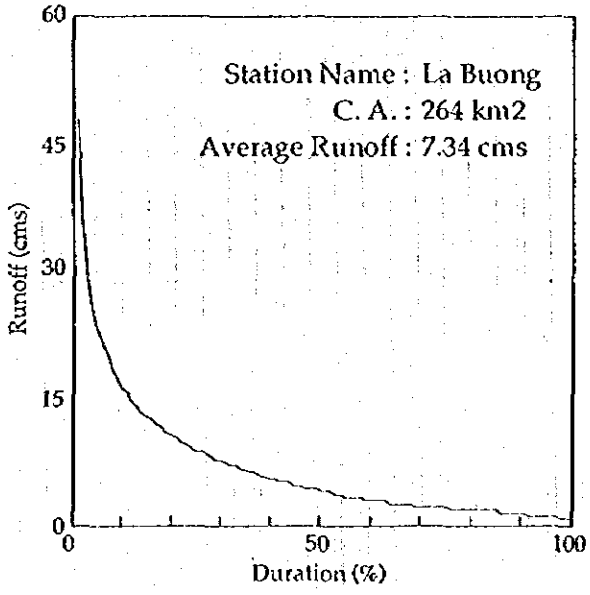


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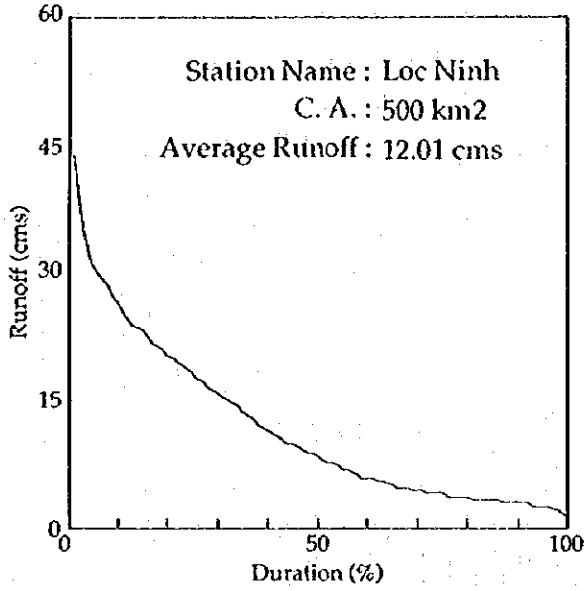
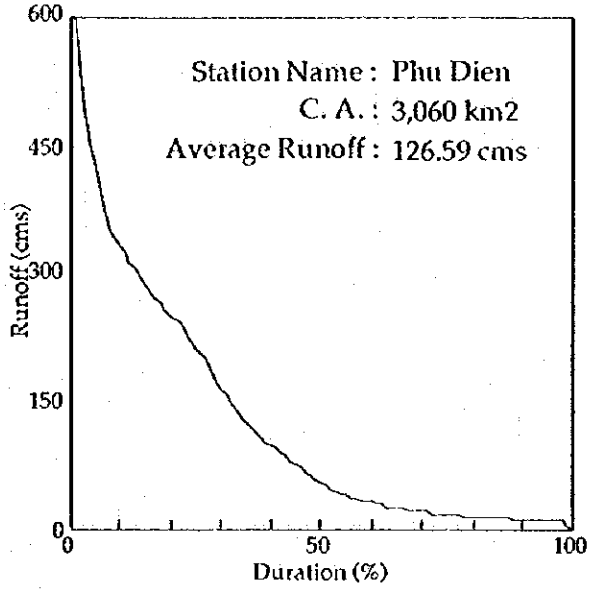
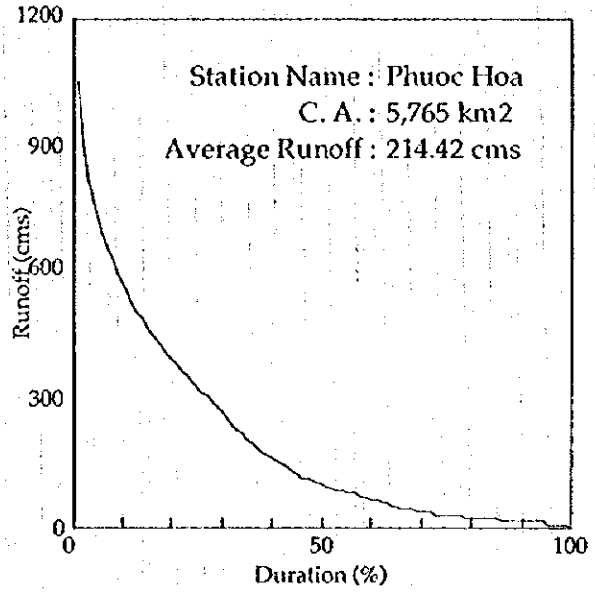
Figure 3.9

Flow Duration Curve at Hydrological Stations (1/4)







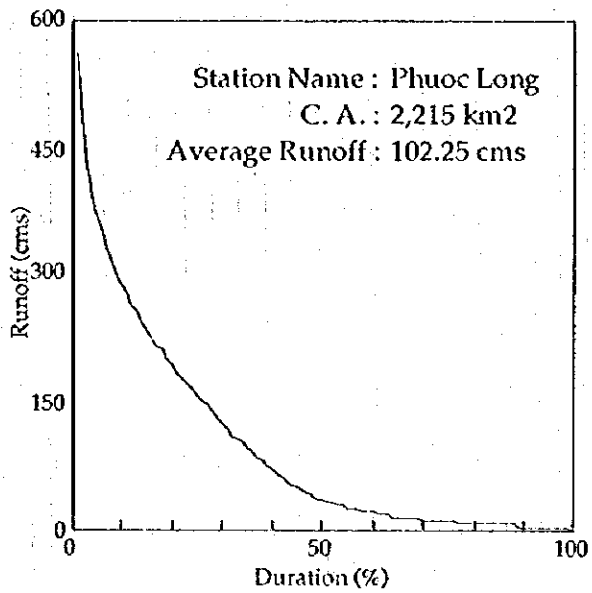


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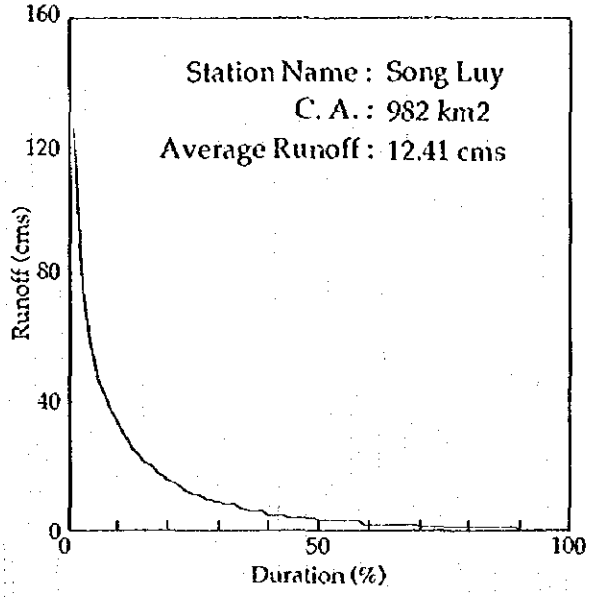
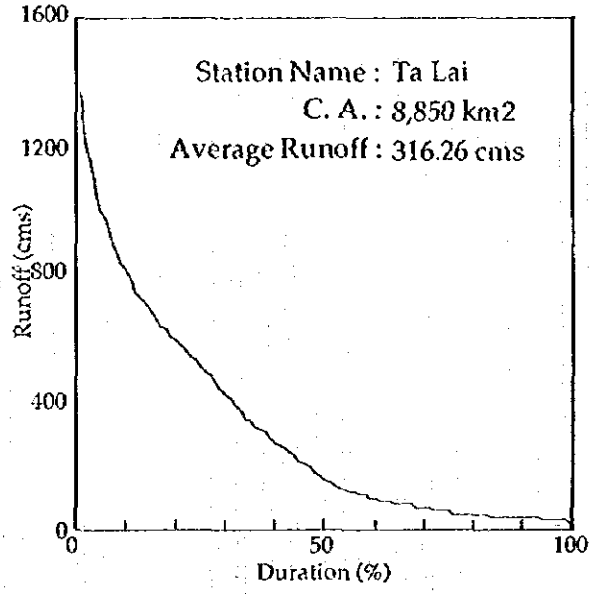
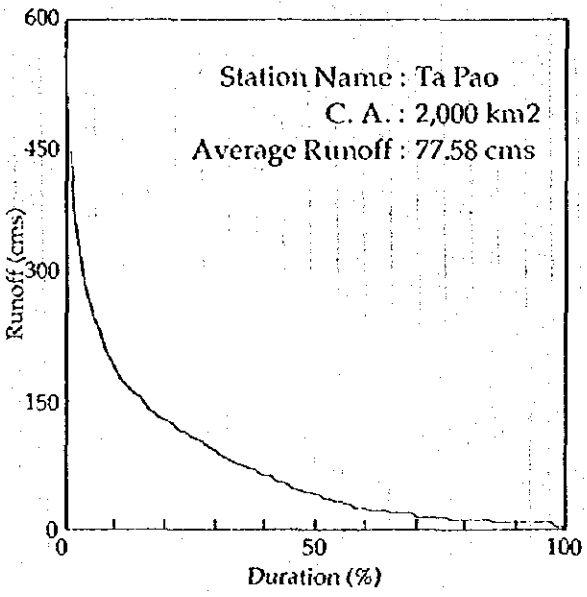
Figure 3.9

Flow Duration Curve at Hydrological Stations (2/4)







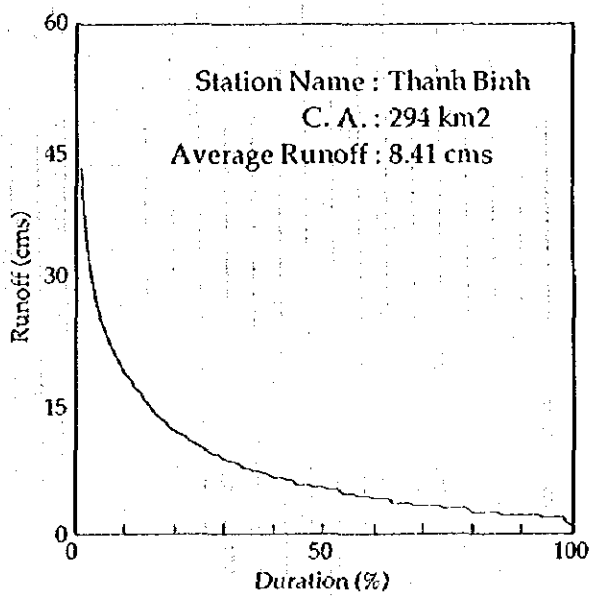


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Figure 3.9

Flow Duration Curve at Hydrological Stations (3/4)

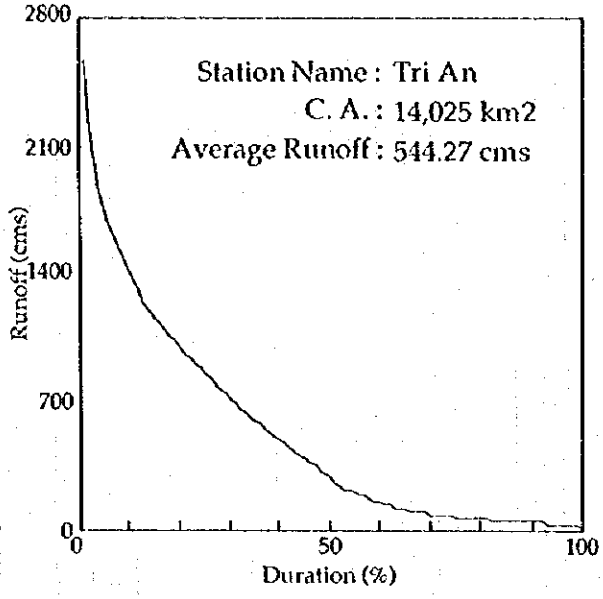

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Figure 3.9

Flow Duration Curve at Hydrological Stations (4/4)

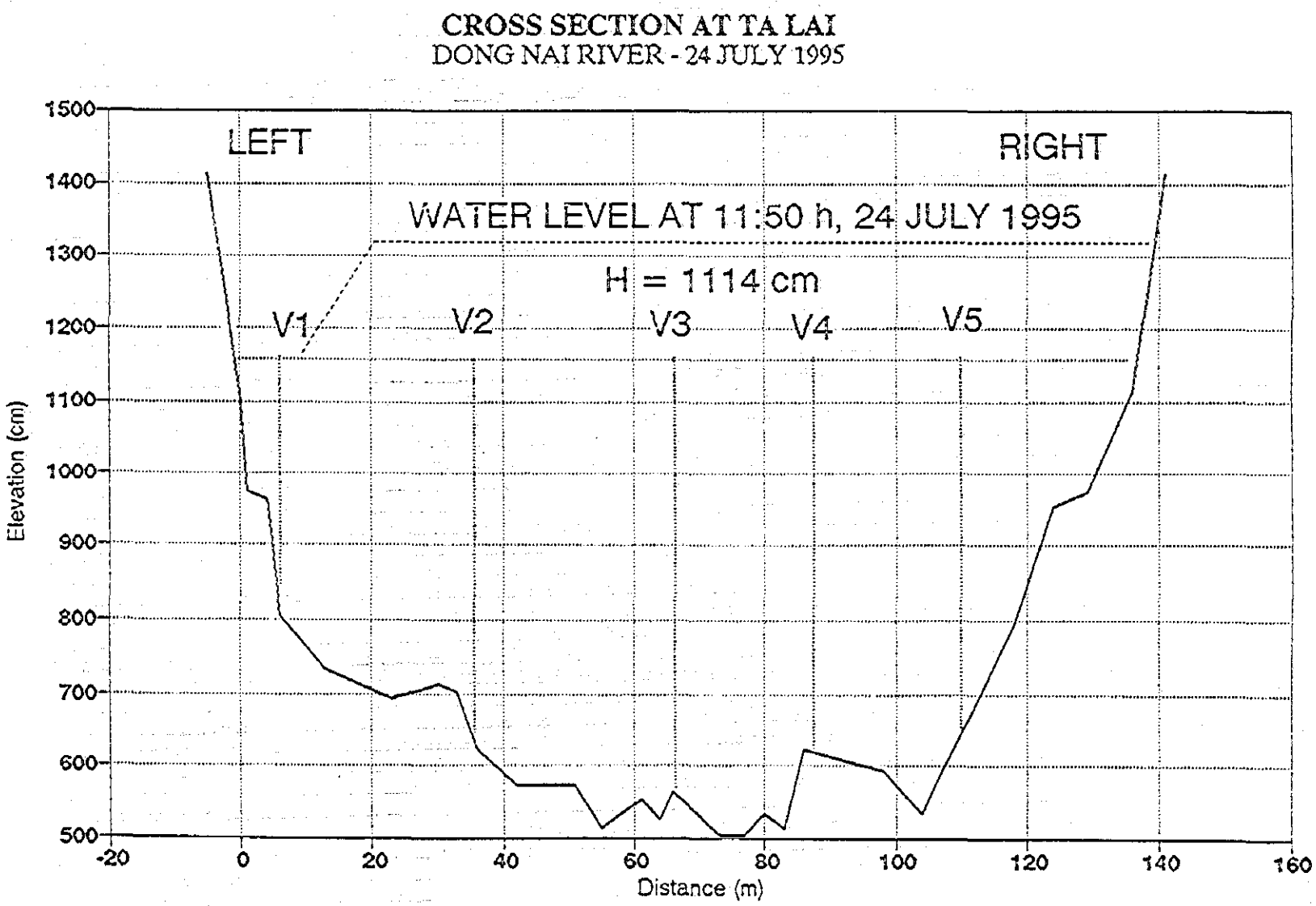

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Figure 3.10
Cross Section at the Discharge Station (1/5)

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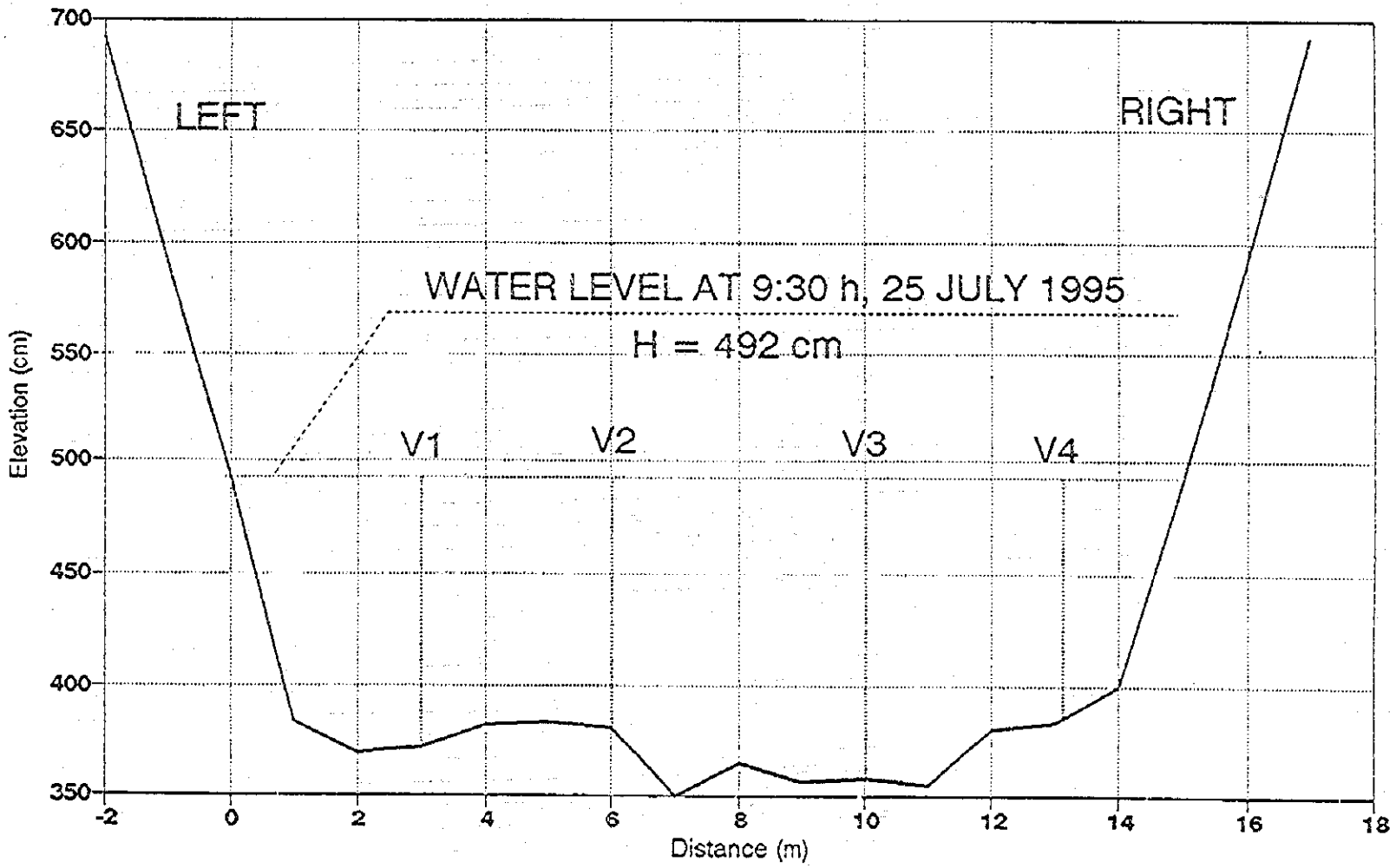
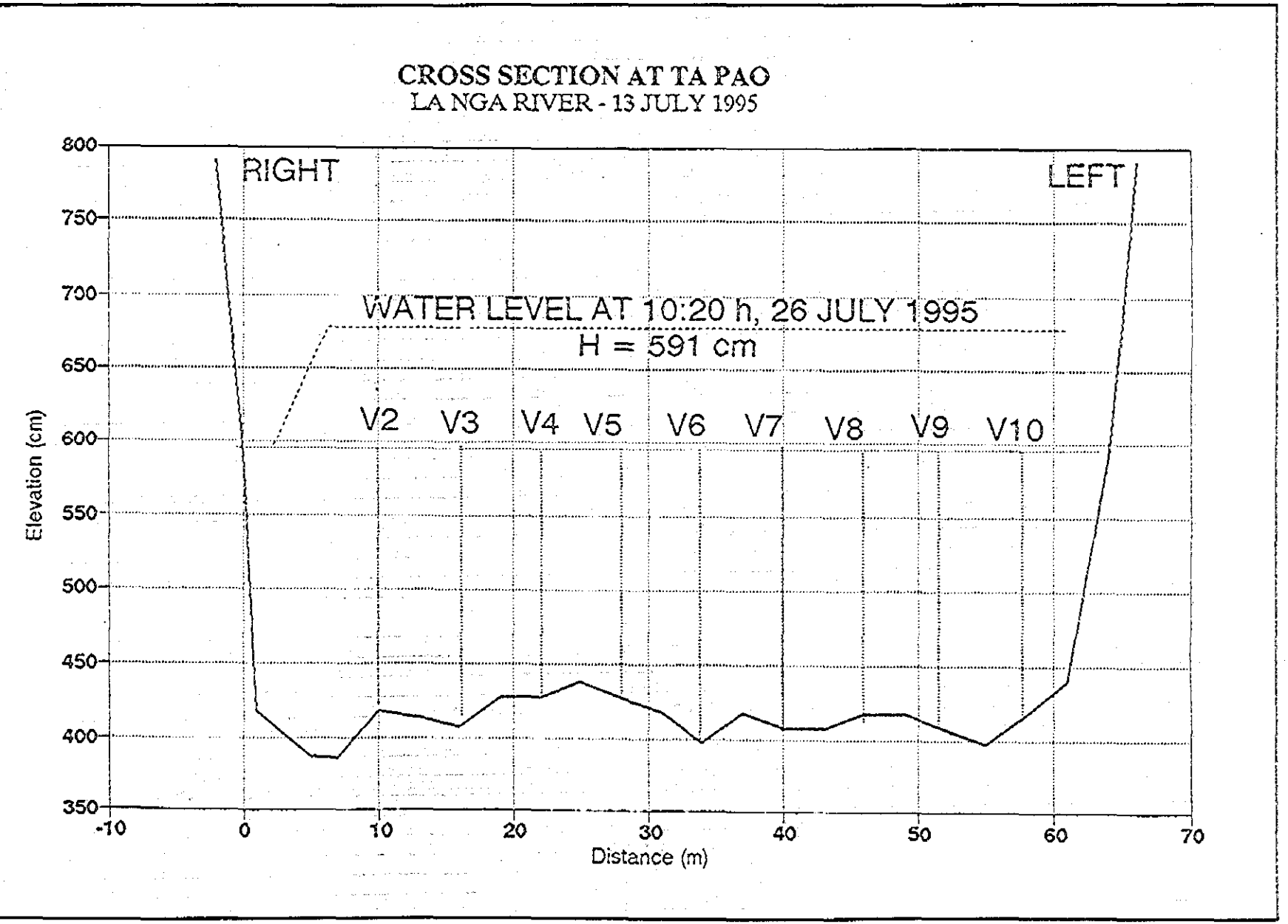


Figure 3.10
Cross Section at the Discharge Station
(2/5)



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JAPAN INTERNATIONAL COOPERATION AGENCY

Figure 3.10
Cross Section at the Discharge Station
(3/5)

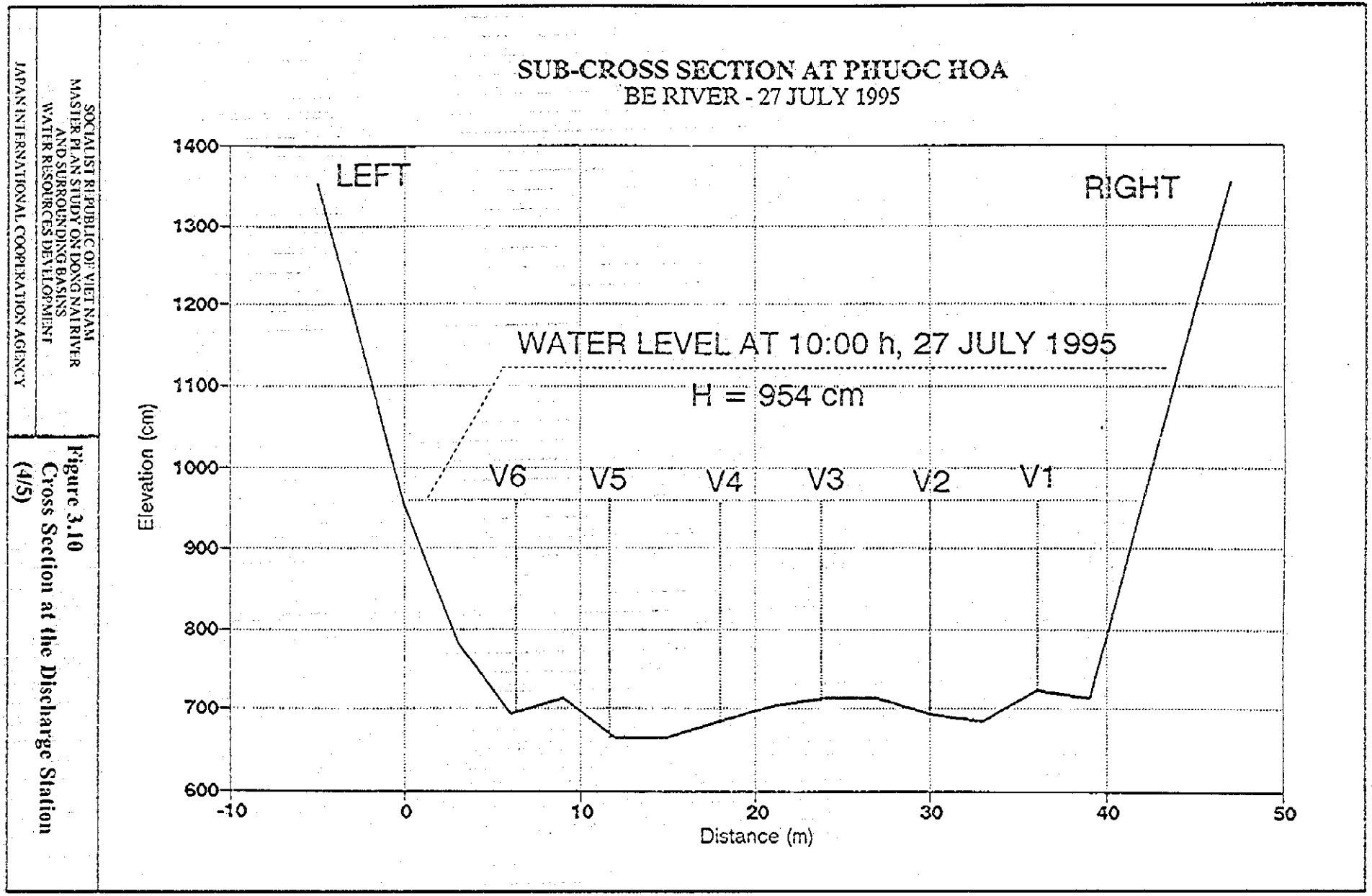

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Figure 3.10
Cross Section at the Discharge Station
(4/5)

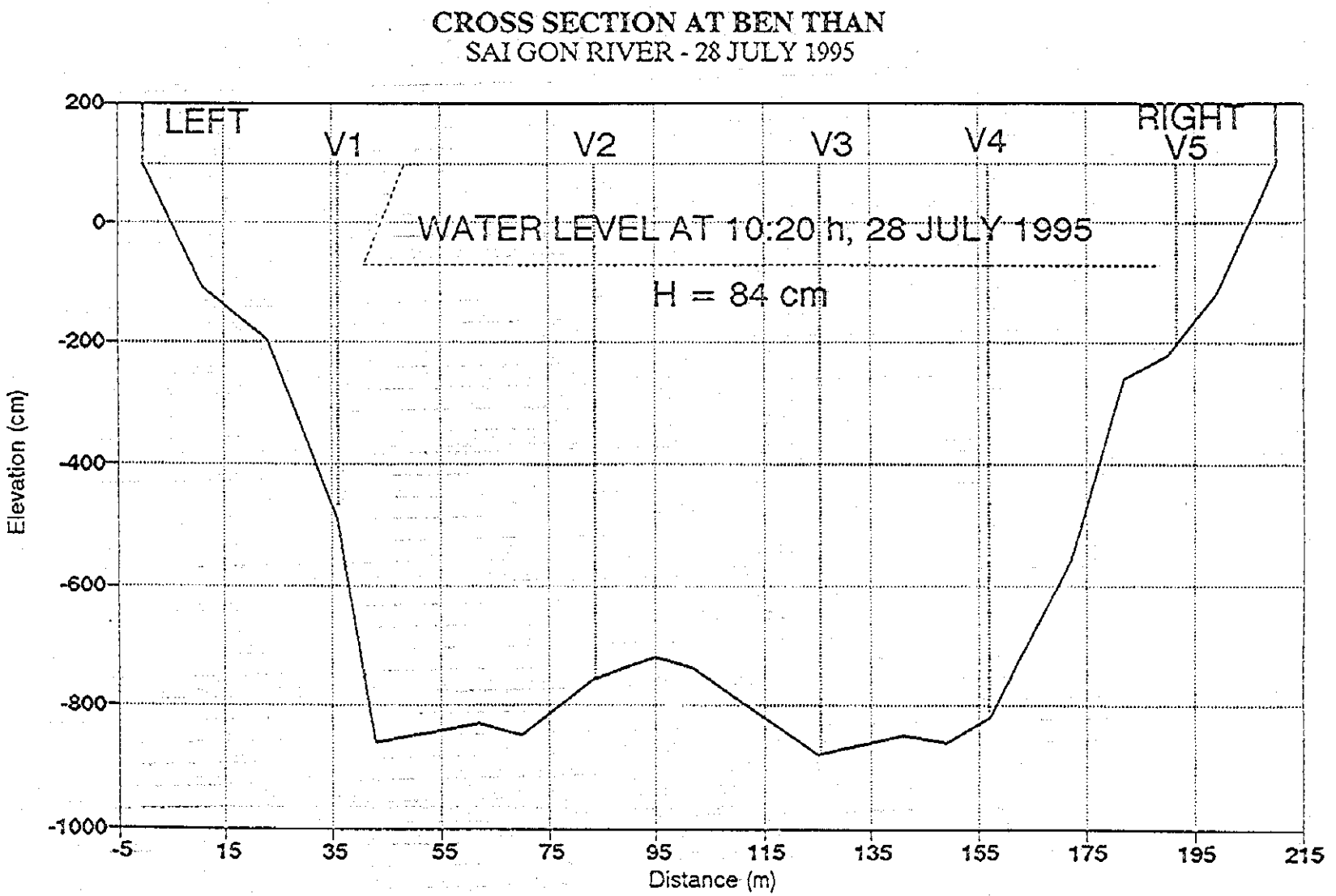

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Figure 3.10 Cross Section at the Discharge Station (5/5)

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JAPAN INTERNATIONAL COOPERATION AGENCY

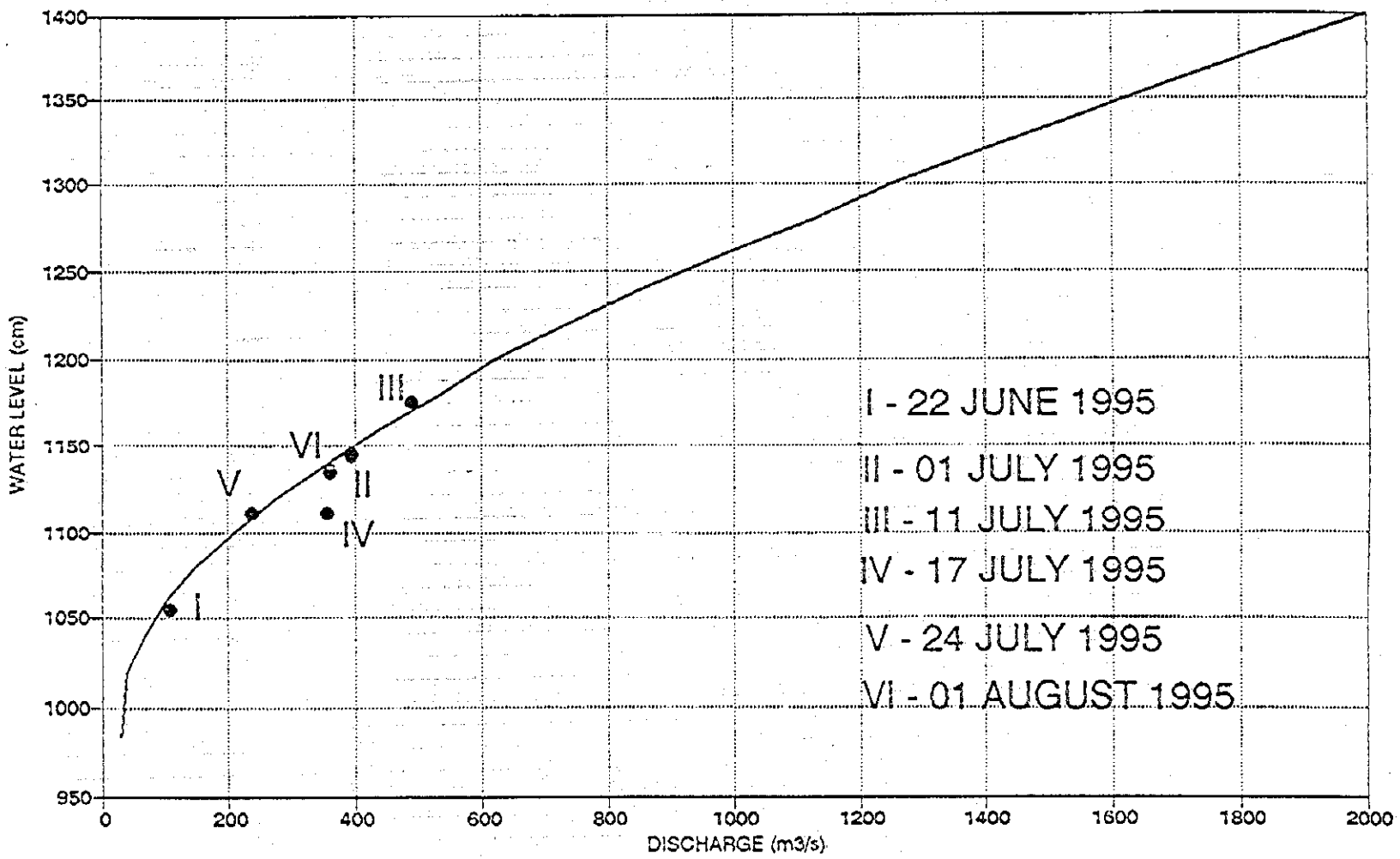

Figure 3.11
Rating Curve and Result of Discharge Measurements (1/4)

SOCIALIST REPUBLIC OF VIET NAM
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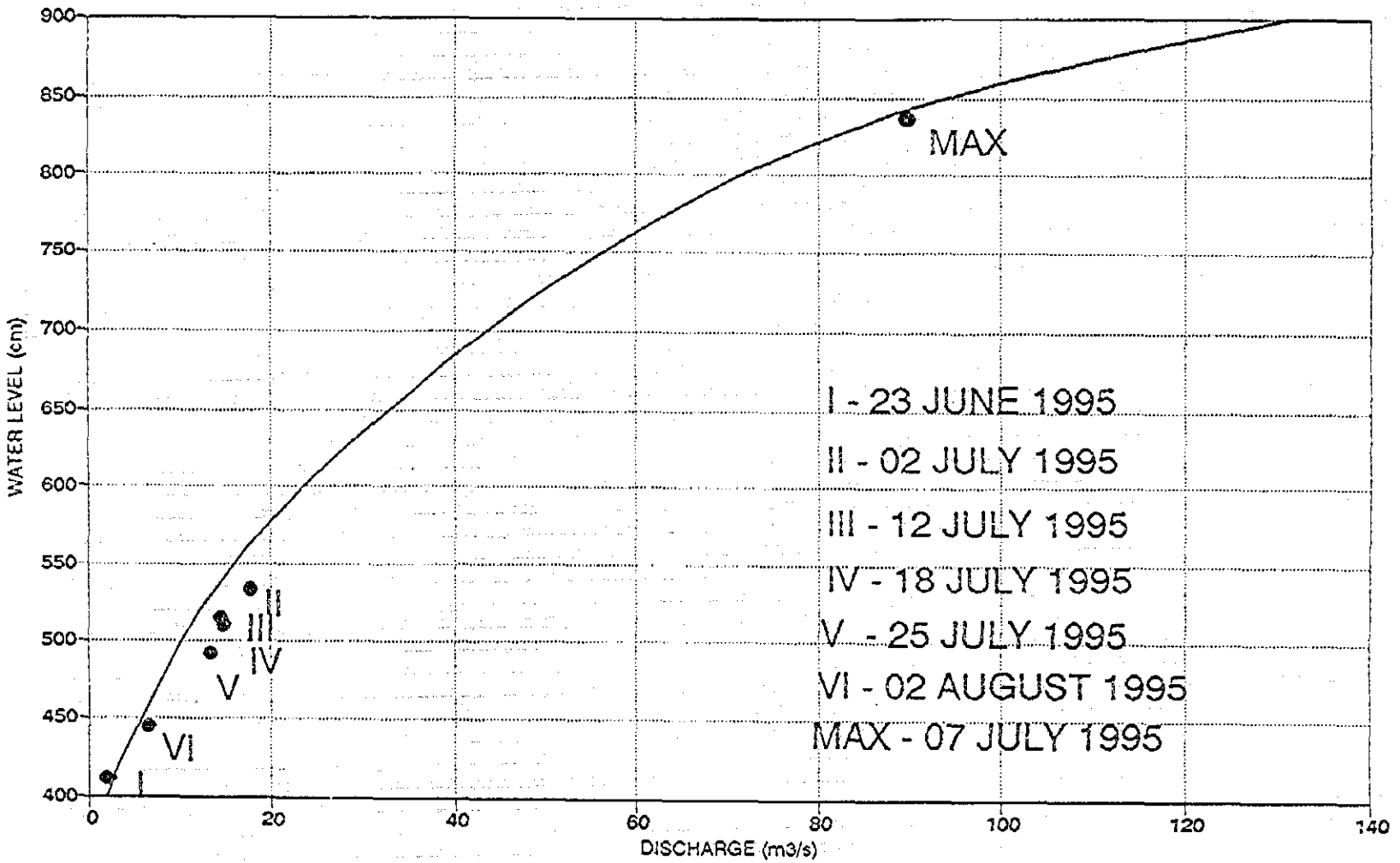

Figure 3.11
Rating Curve and Result of Discharge Measurements (2/4)

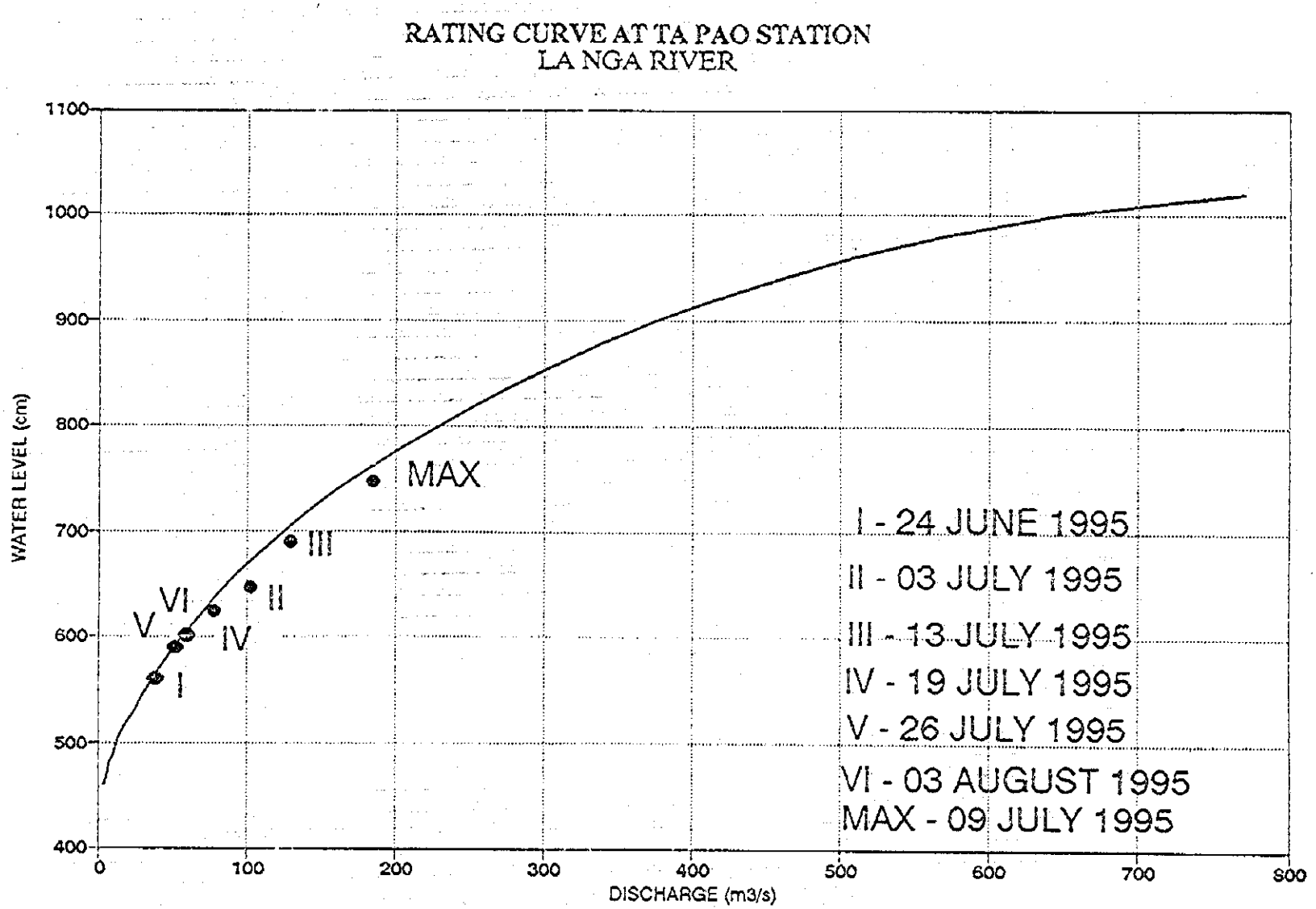

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Figure 3.11
Rating Curve and Result of Discharge Measurements (3/4)

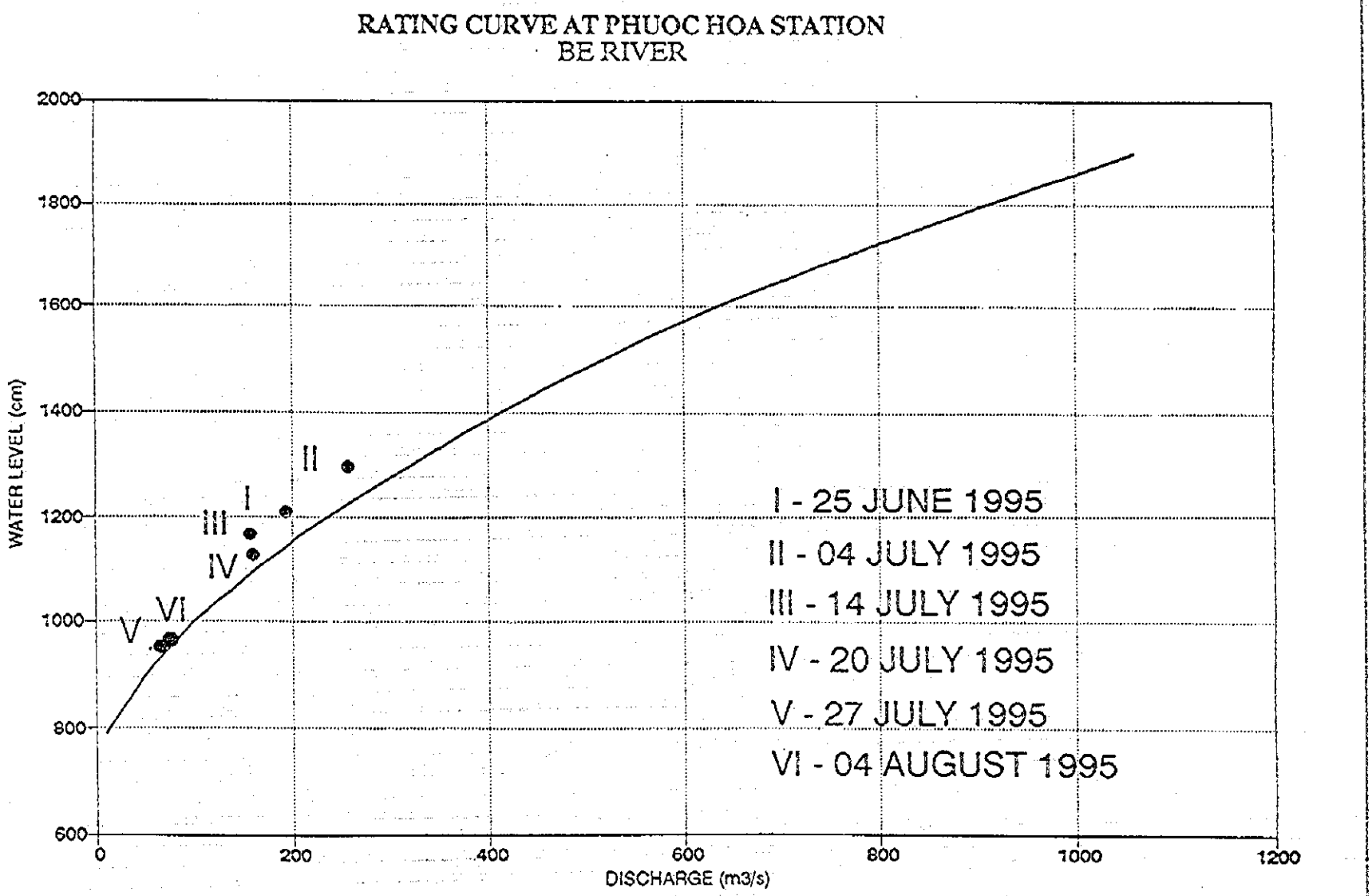

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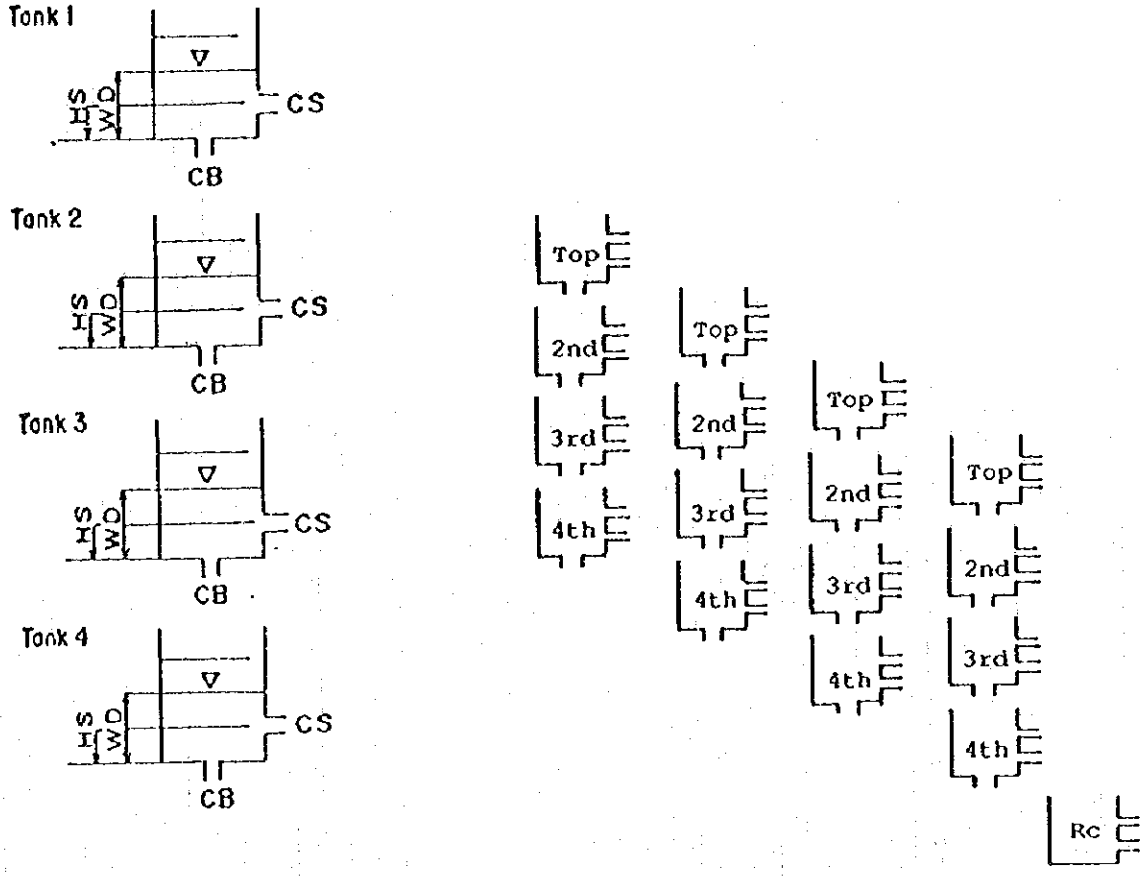
Figure 3.11 Rating Curve and Result of Discharge Measurements (4/4)



CS : Coefficient of side hole

CB : Coefficient of bottom hole

HS : Height of site hole (mm)

WO : Initial water depth (mm)

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Figure 3.12

Tank Model Configuration

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Figure 3.13

Tank Model Hydrograph (1/7)

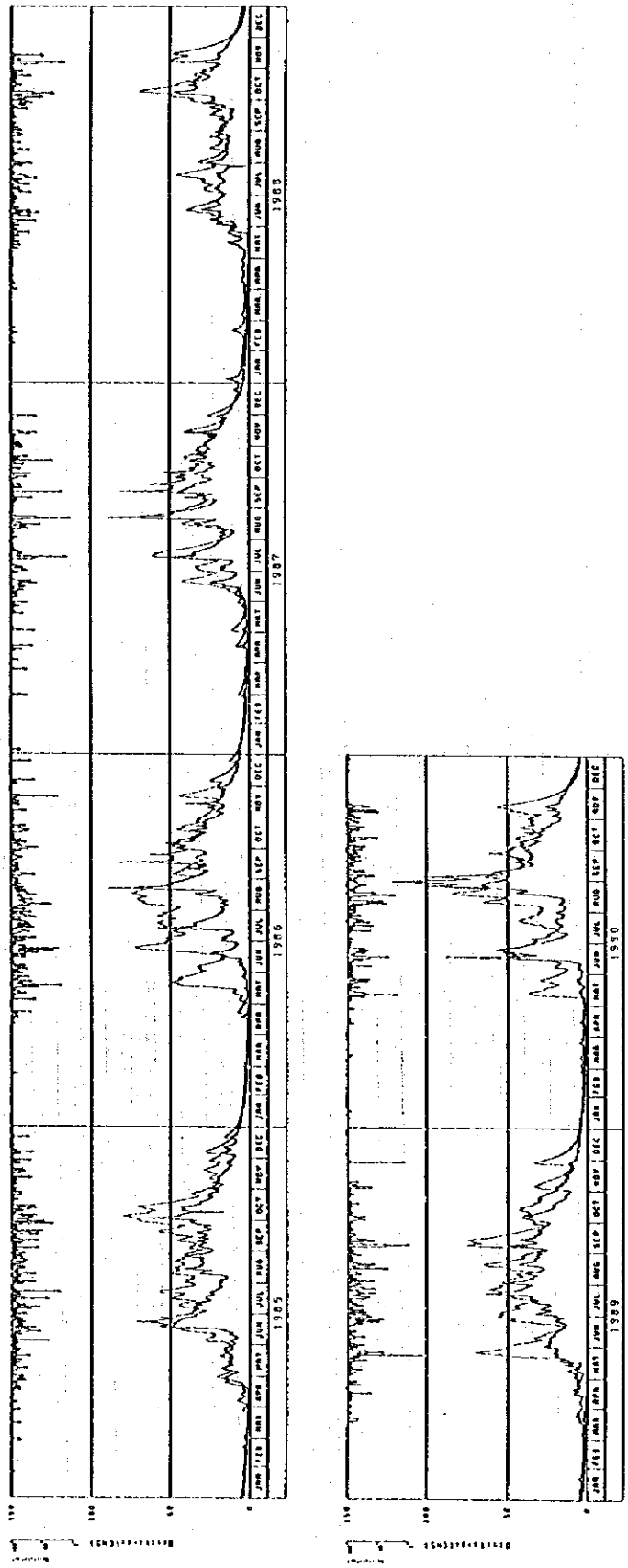

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Figure 3.13

Tank Model Hydrograph (2/7)

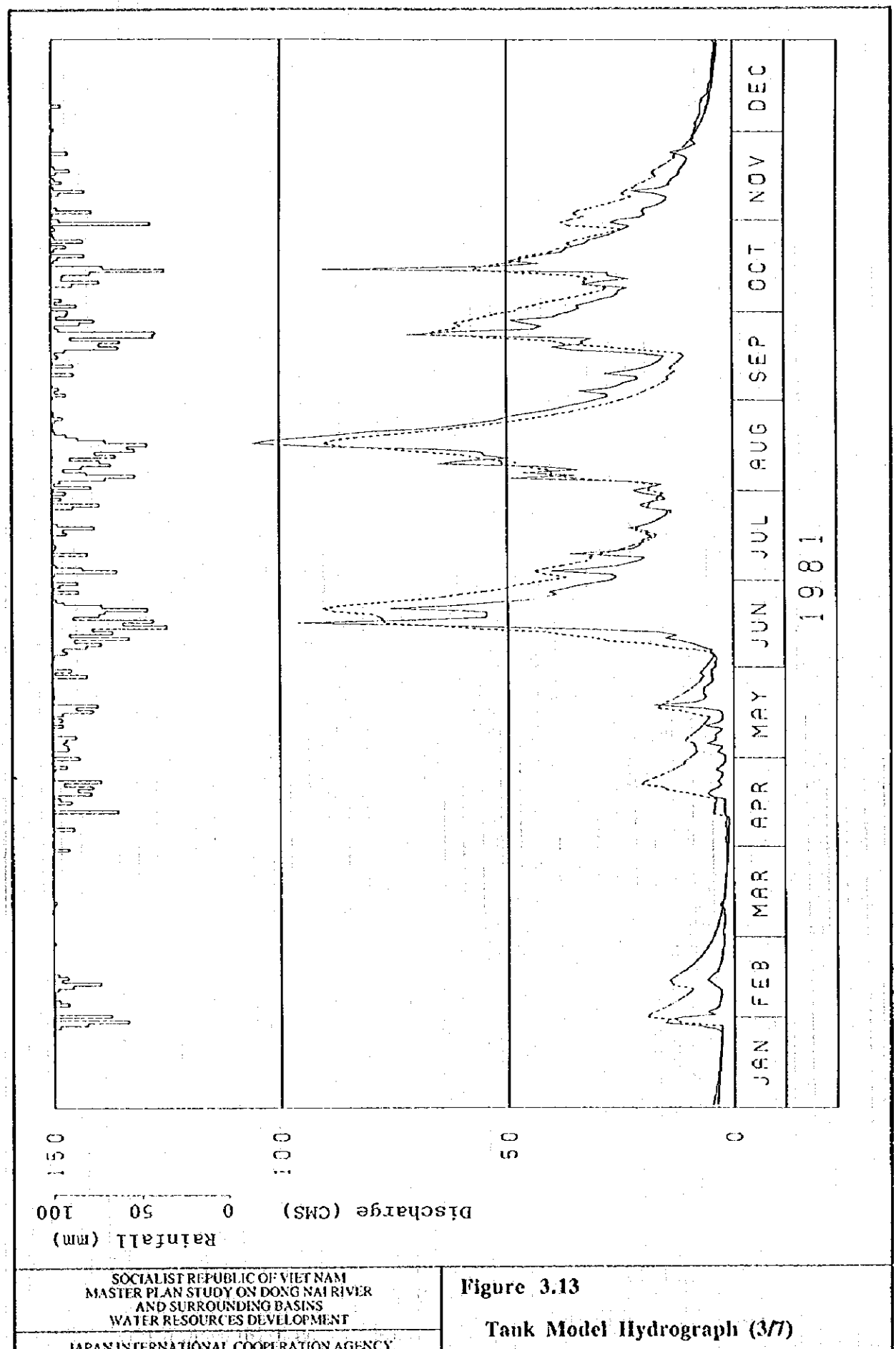

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Figure 3.13

Tank Model Hydrograph (3/7)

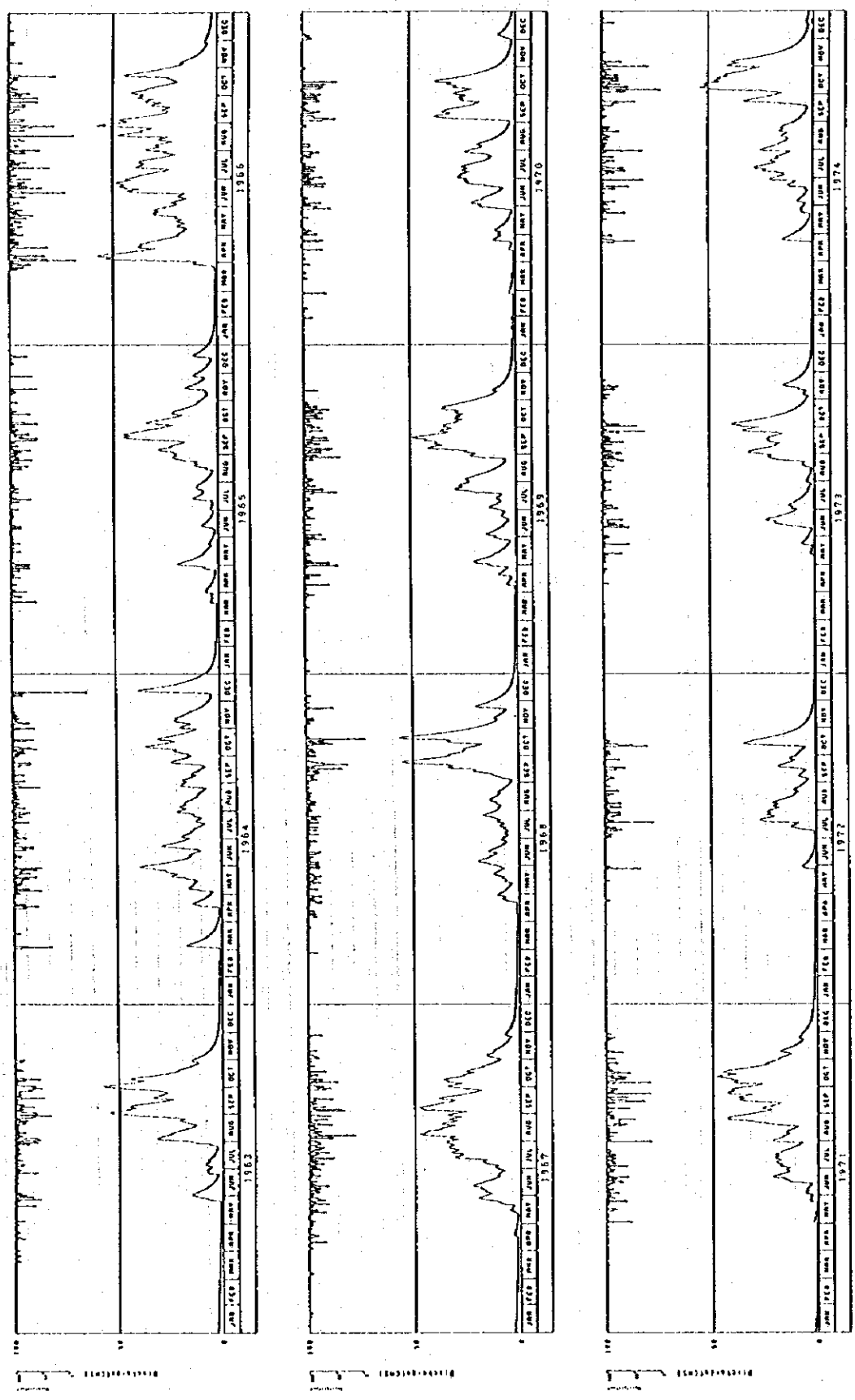

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Figure 3.13

Tank Model Hydrograph (4/7)

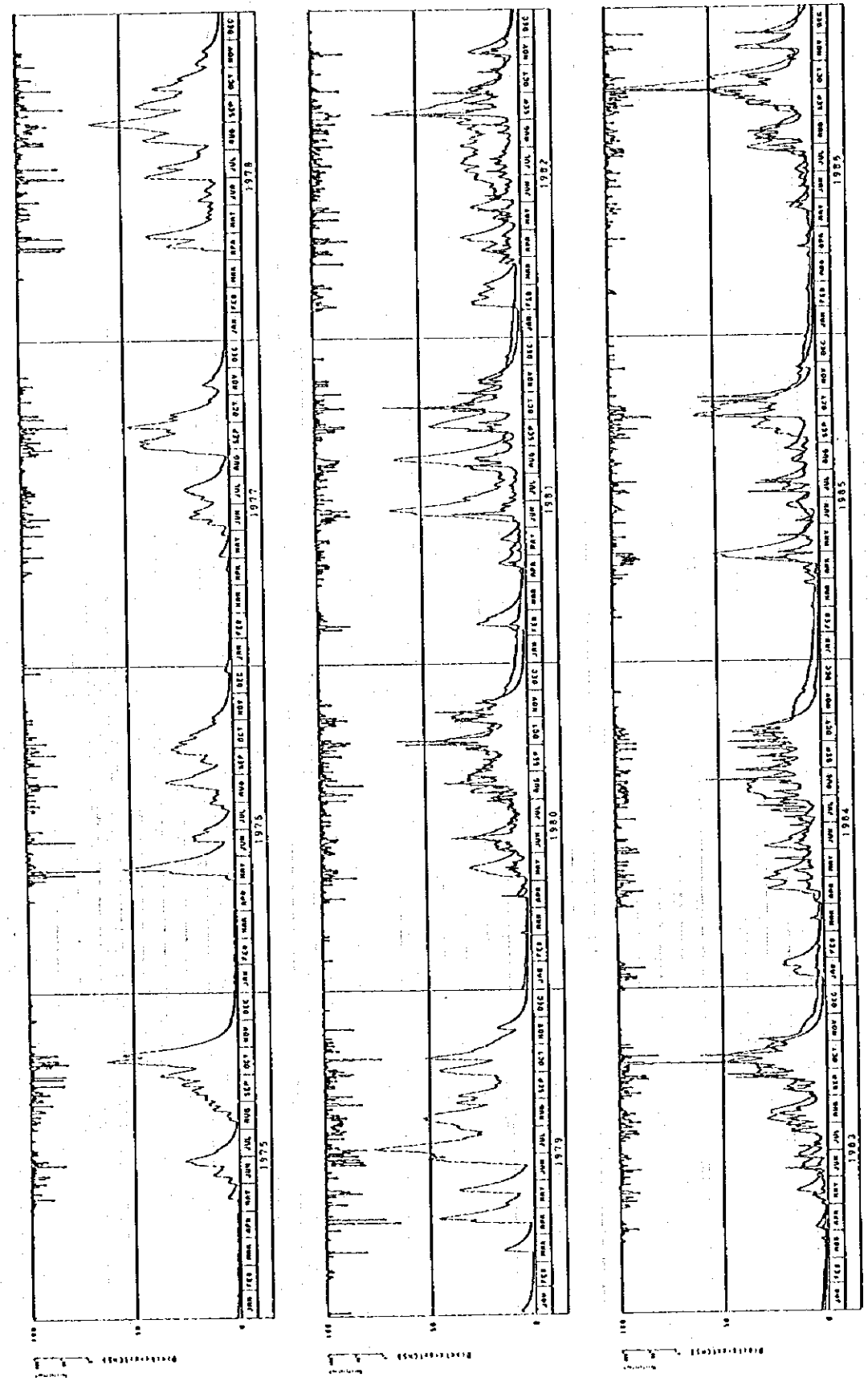

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Figure 3.13

Tank Model Hydrograph (5/7)

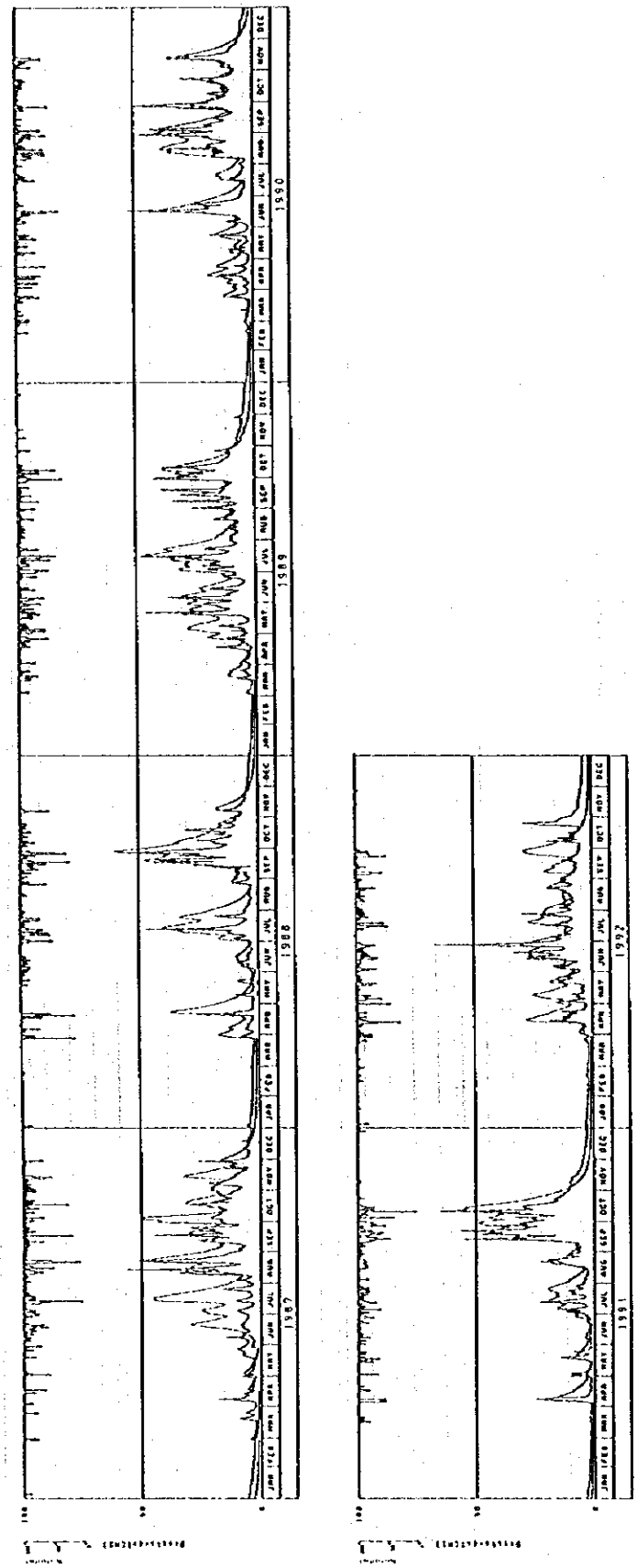

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Figure 3.13

Tank Model Hydrograph (6/7)

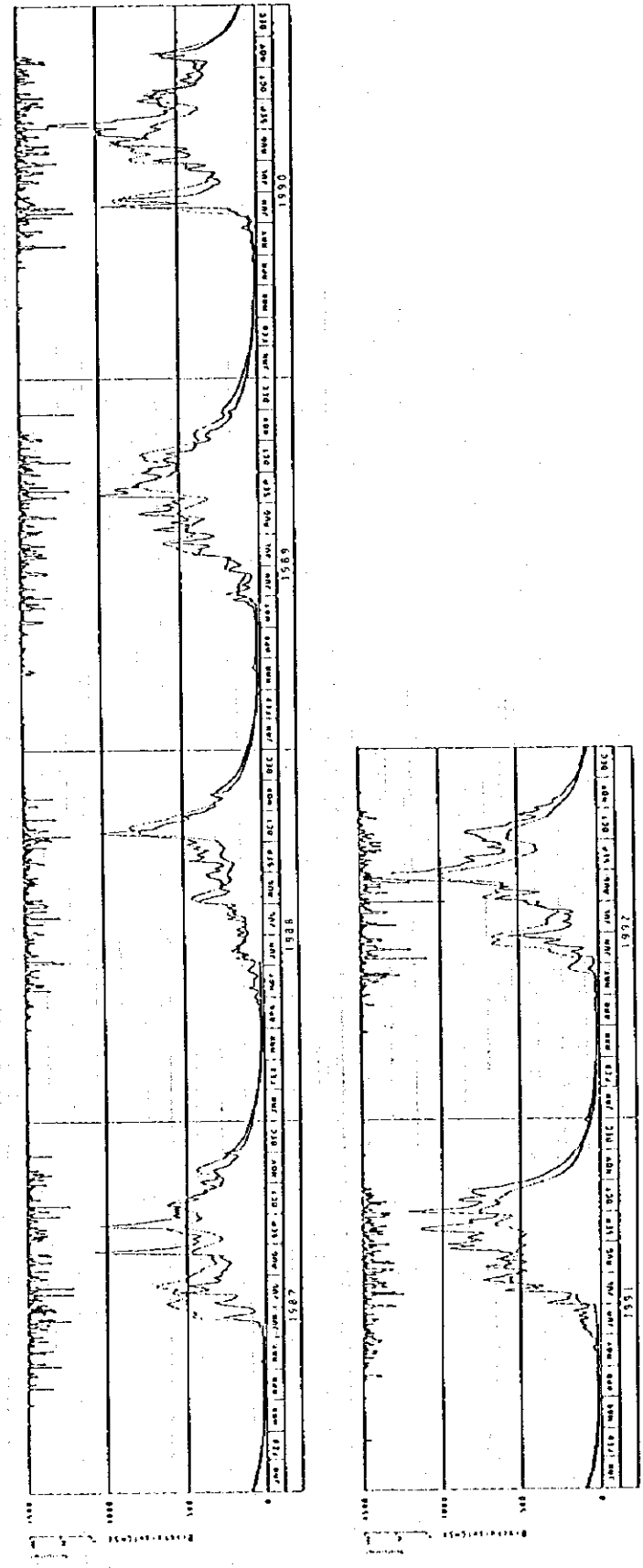

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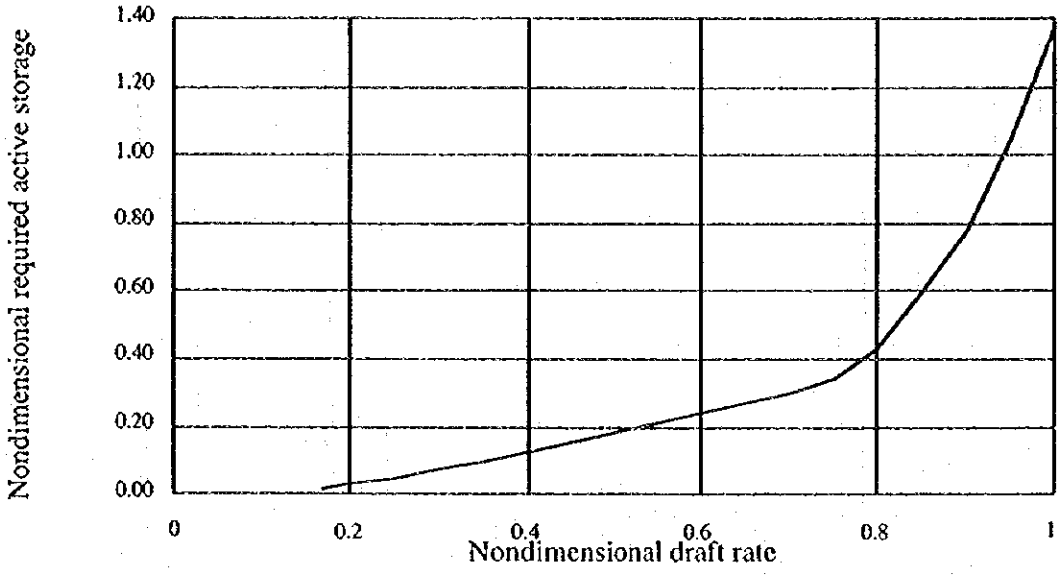
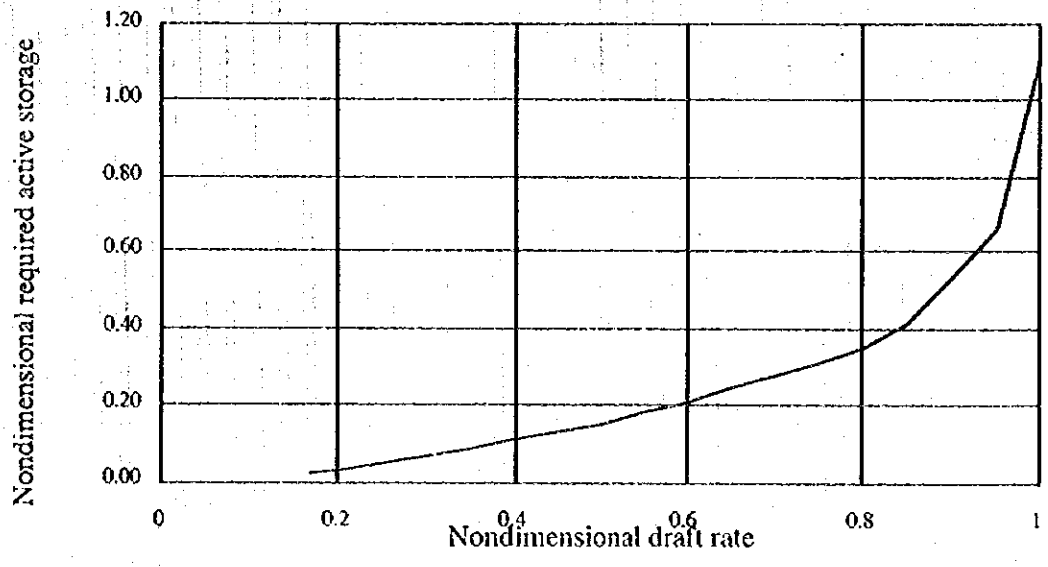
Figure 3.13

Tank Model Hydrograph (7/7)

Dai Nga Gauging Station
Qmean = 15.92 cms
Catchment Area = 373 km2
Annual Rainfall = 2506 mm



Loc Ninh Gauging Station
Qmean = 12.84 cms
Catchment Area =500 km2
Annual Rainfall = 1987 mm



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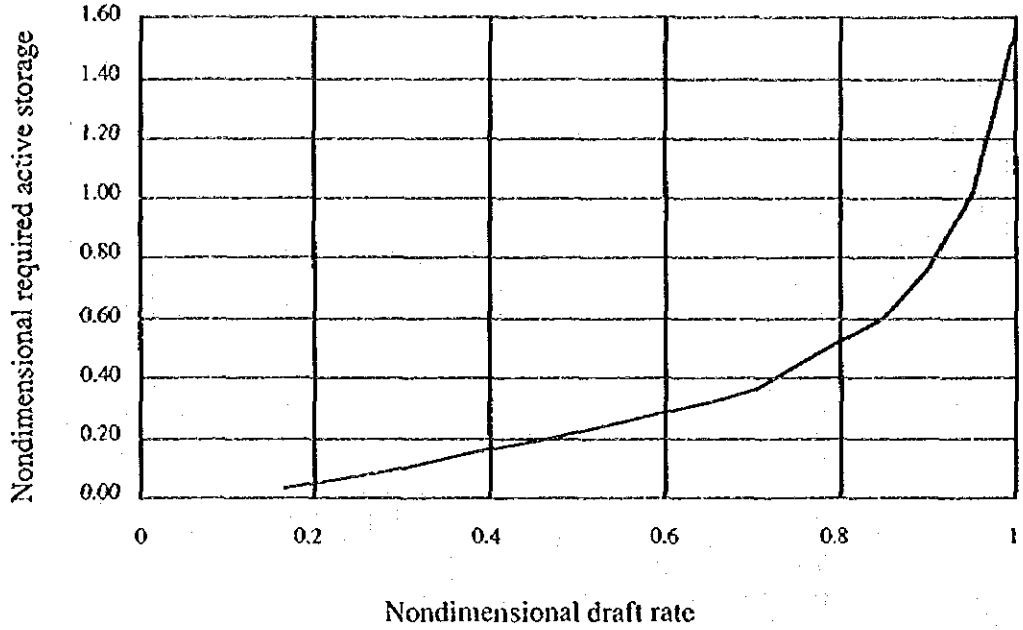
JAPAN INTERNATIONAL COOPERATION AGENCY	Storage Draft Curves (1/2)

Phuoc Hoa Gauging Station
Qmean = 221.6 cms
Catchment Area = 5765 km2
Annual Rainfall = 2304 mm



Ta Lai Gauging Station
Qmean = 300.28 cms
Catchment Area = 8850 km2
Annual Rainfall = 2130 mm

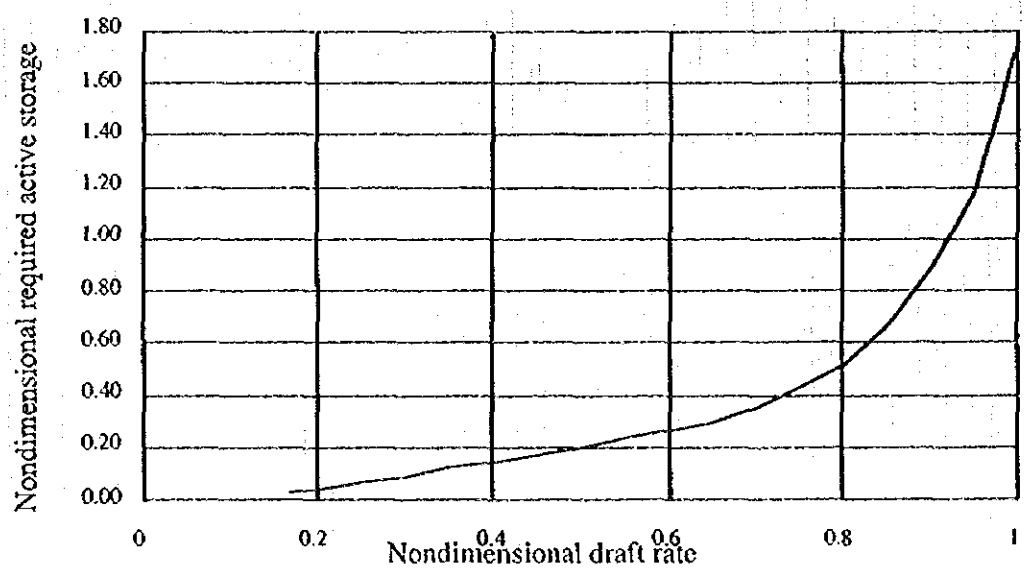


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Figure 3.14

Storage Draft Curves (2/2)

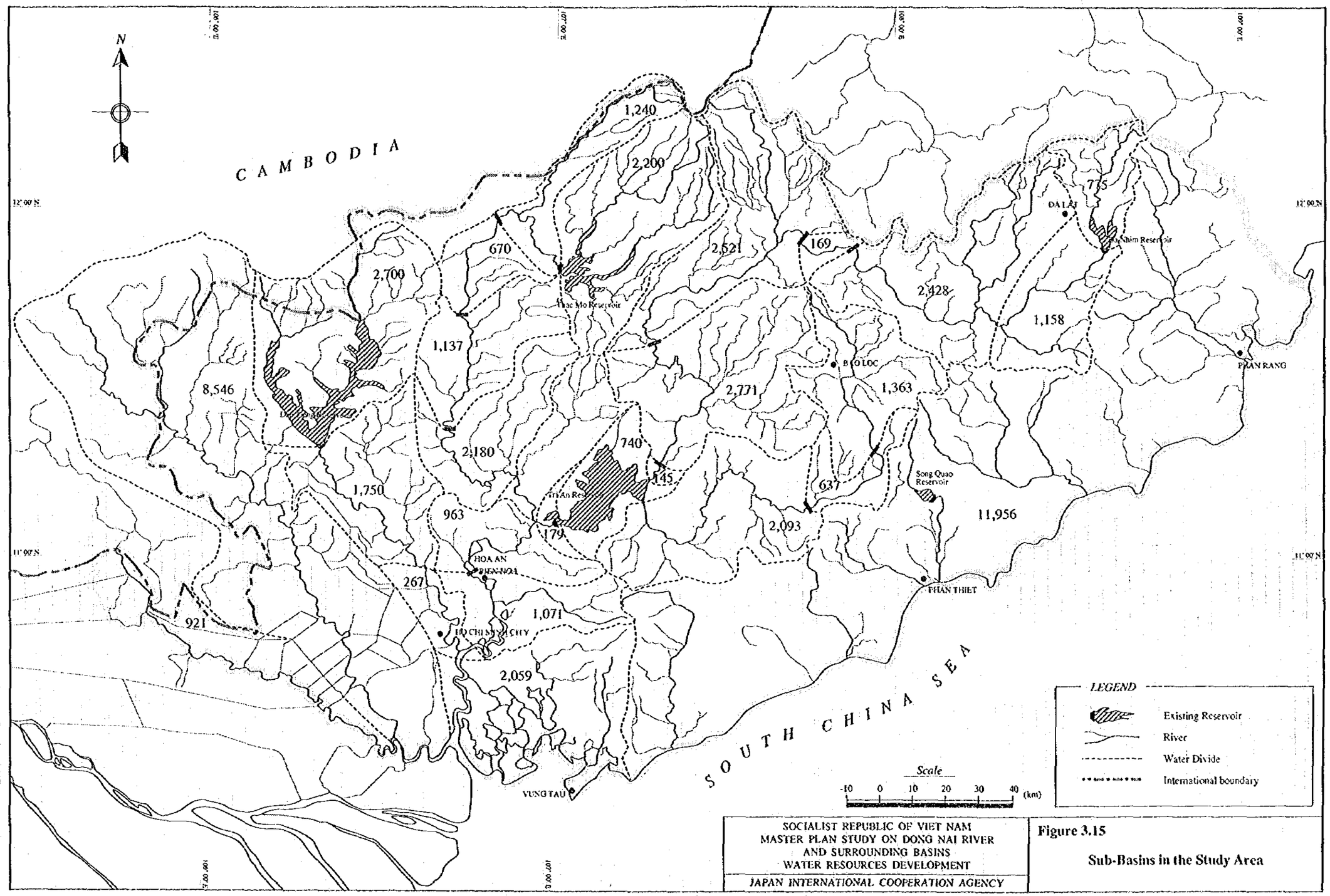

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Figure 3.15

Sub-Basins in the Study Area

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Figure 3.16

Basin Boundary for Flood Runoff Analysis

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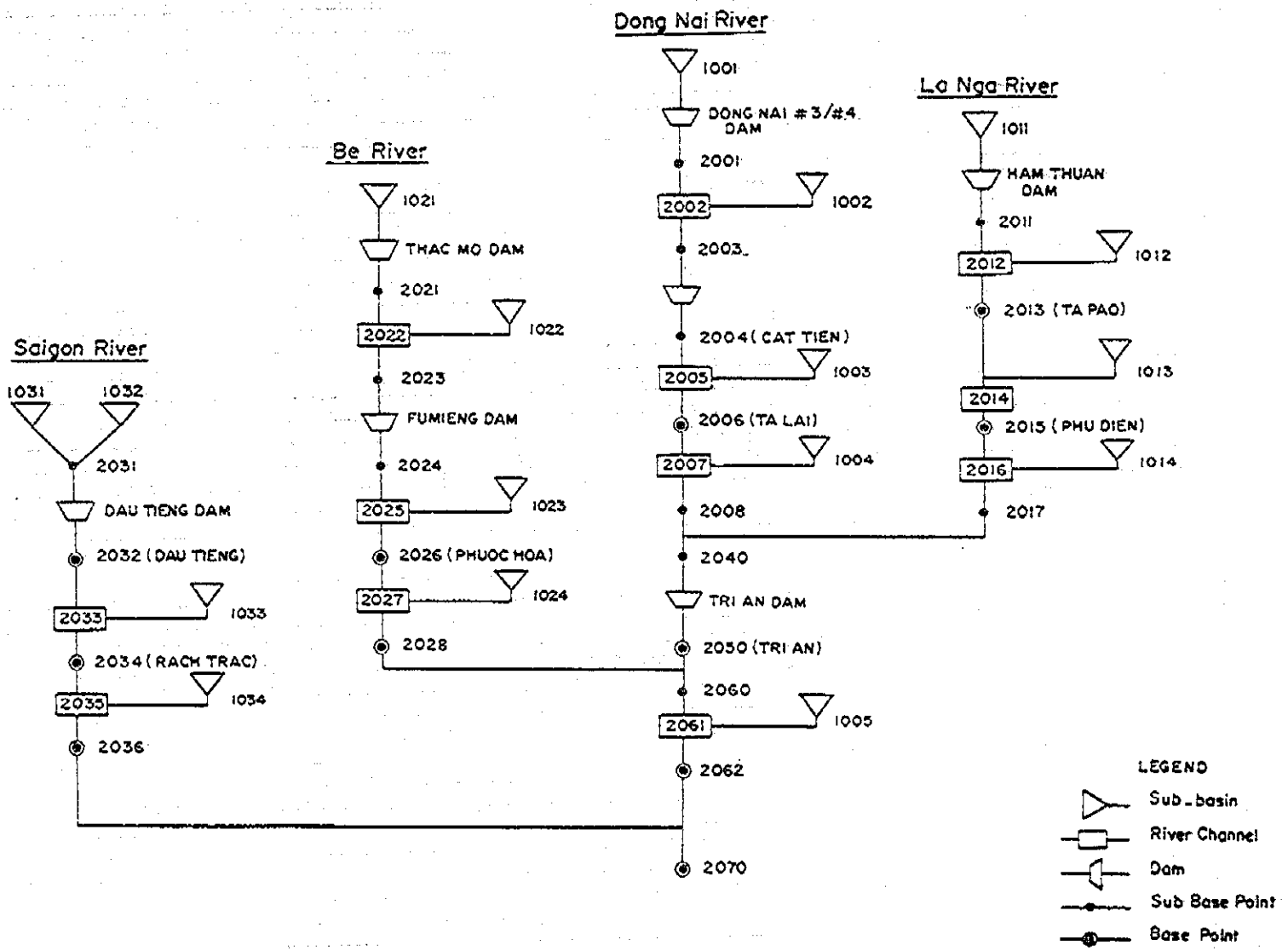
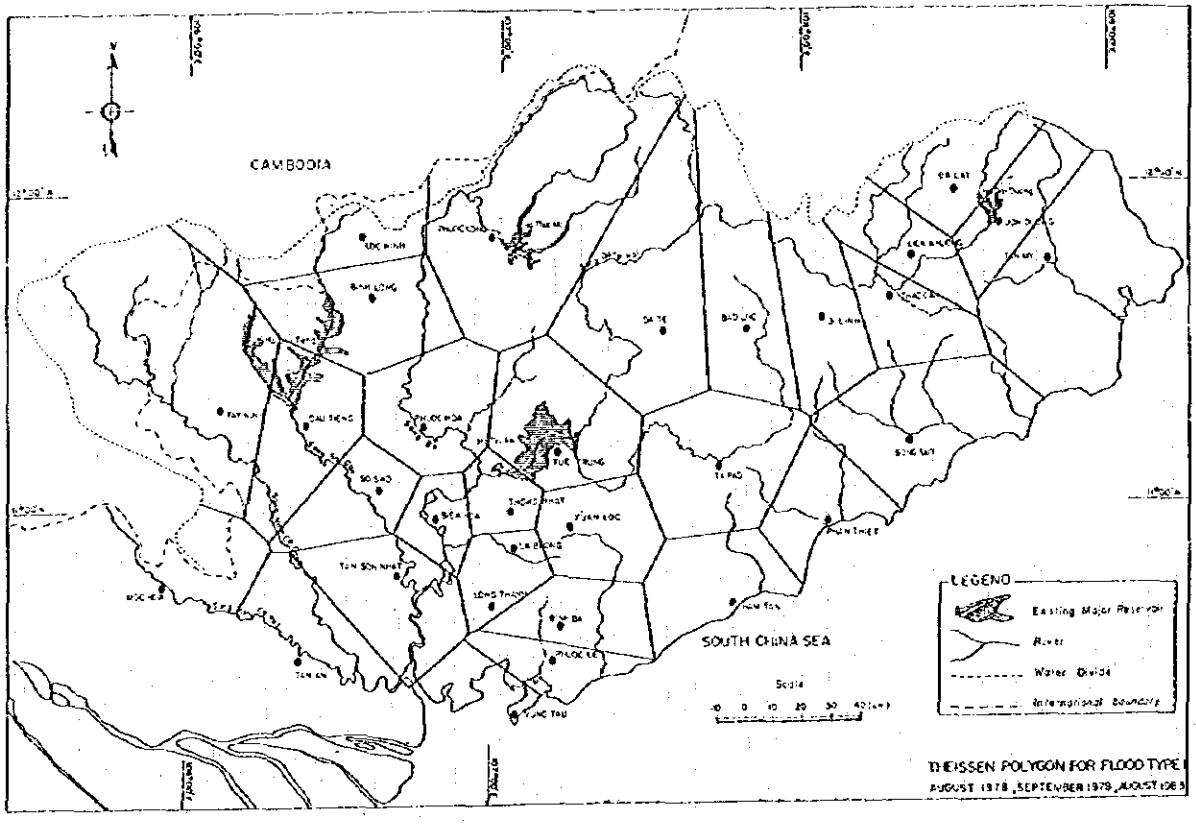


Figure 3.17
Runoff System Configuration



Type 1 (Period: August and September 1978, August 1983)

	Station	DH 3	DH 6	Ta Lai	Tri An	Ham Thuan	Ta Pao	Phu Dien	Con/DN/LN	Thuc Ke	Fo Mang	Phuoc Hoa		Q*(Saigon)	Q*(Bien Hoa)
1	Bao Loc	0.089	0.293	0.149		0.689	0.063								
2	Bien Hoa														
3	Binh Ba														
4	Binh Long										0.028	0.405		0.480	0.274
5	Da Lat	0.182													
6	Da Te		0.562	0.279	0.016			0.093		0.056					
7	Dau Tieng													0.206	0.163
8	Di Linh	0.212				0.301	0.172								
9	Don Duong	0.071													
10	Dong Phu														
11	Go dau Ha														
12	Ham Tan														
13	La Buong														
14	Lien Khuong	0.260													
15	Loc Ninh										0.918			0.314	0.158
16	Long Thanh														
17	Moc Hoa														
18	Phan Rang														
19	Phuoc Hoa											0.351	0.457		
20	Phuoc Long		0.144	0.008						0.844	0.853	0.244	0.217		
21	Phan Thiet														
22	Phuoc Le														
23	Song Luy														
24	So Sao														
25	Tan An														
26	Tan My														
27	Ta Pao			0.542			0.765	0.873	0.063						
28	Tay Ninh														0.405
29	Thac Can	0.185													
30	Thong Nhat				0.376								0.036		
31	Tan Son Nhat														
32	Tuc Trung			0.023	0.713			0.033	0.456				0.290		
33	Vung Tau														
34	Xuan Loc				0.692				0.451						
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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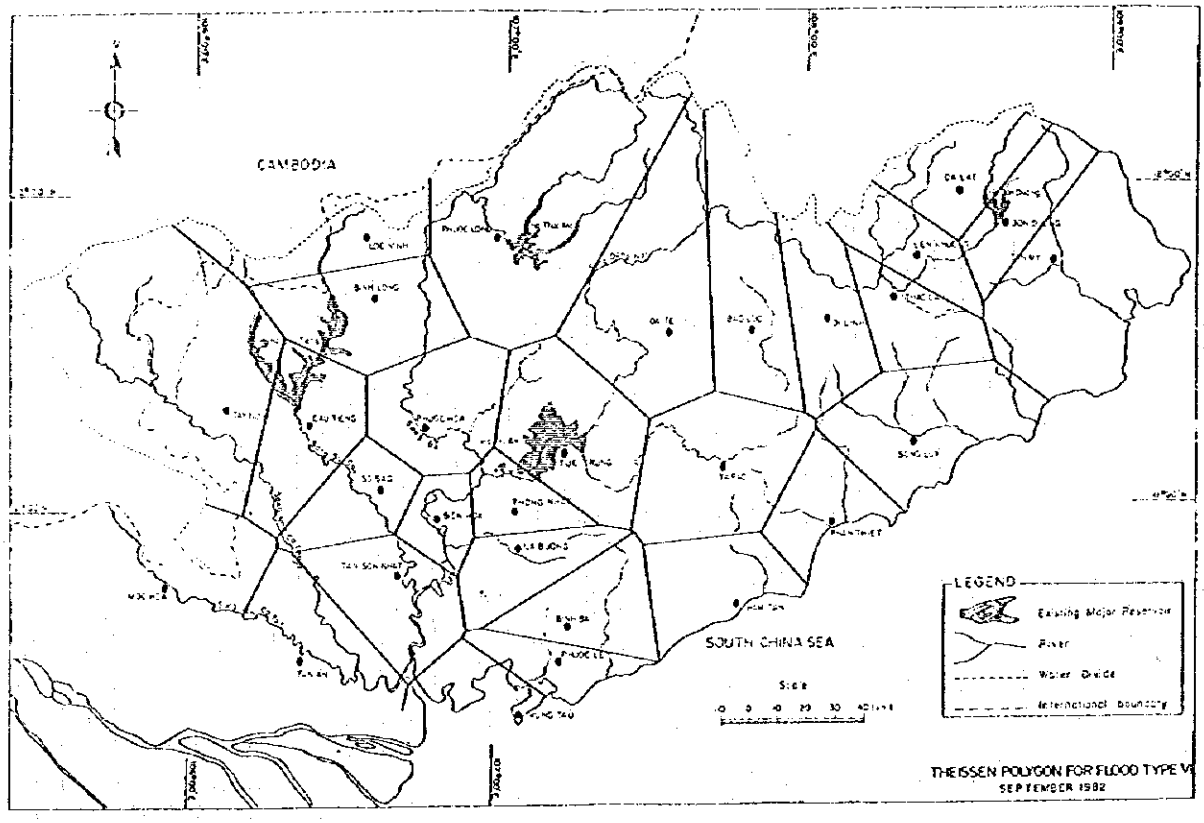
Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (1/6)



Type 6 (Period September 1982)

	Station	DN3	DN6	Ta Cu	Tri An	Ham Thuan	Ta Pao	Phu Dien	Coui/Dinh Ba	Thac Mo	Fu Mieng	Phuoc Hoa	coui Be/Dh	DT(Saigon)	DT(Sai+Don)
1	Bao Loc	0.089	0.293	0.148		0.699	0.063								
2	Binh Hoa														
3	Binh Ba														
4	Binh Long										0.029	0.405		0.480	0.274
5	Da Lat	0.182													
6	Da Te		0.562	0.779	0.018			0.094		0.056					
7	Dau Tieng													0.206	0.163
8	Di Linh	0.212				0.301	0.372								
9	Gia Nghia	0.071													
10	Song Pha														
11	Go dau Ha														
12	Ham Tan														
13	La Buong														
14	Lac Khuong	0.260													
15	Loc Ninh										0.116			0.314	0.158
16	Long Thanh														
17	Muc Hoa														
18	Phan Rang														
19	Phuoc Hoa											0.351	0.453		
20	Phuoc Long		0.144	0.008						0.944	0.853	0.244	0.217		
21	Phan Thiet														
22	Phuoc Le														
23	Song Luy														
24	So Sao														
25	Tan An														
26	Tan My														
27	Ta Pao			0.042			0.765	0.873	0.157						
28	Tay Ninh														0.405
29	Thac San	0.185													
30	Thac Nhat				0.268				0.048				0.036		
31	Tan Son Hut														
32	Tuc Trung			0.023	0.713			0.033	0.795				0.290		
33	Vung Tau														
34	Xuan Loc														
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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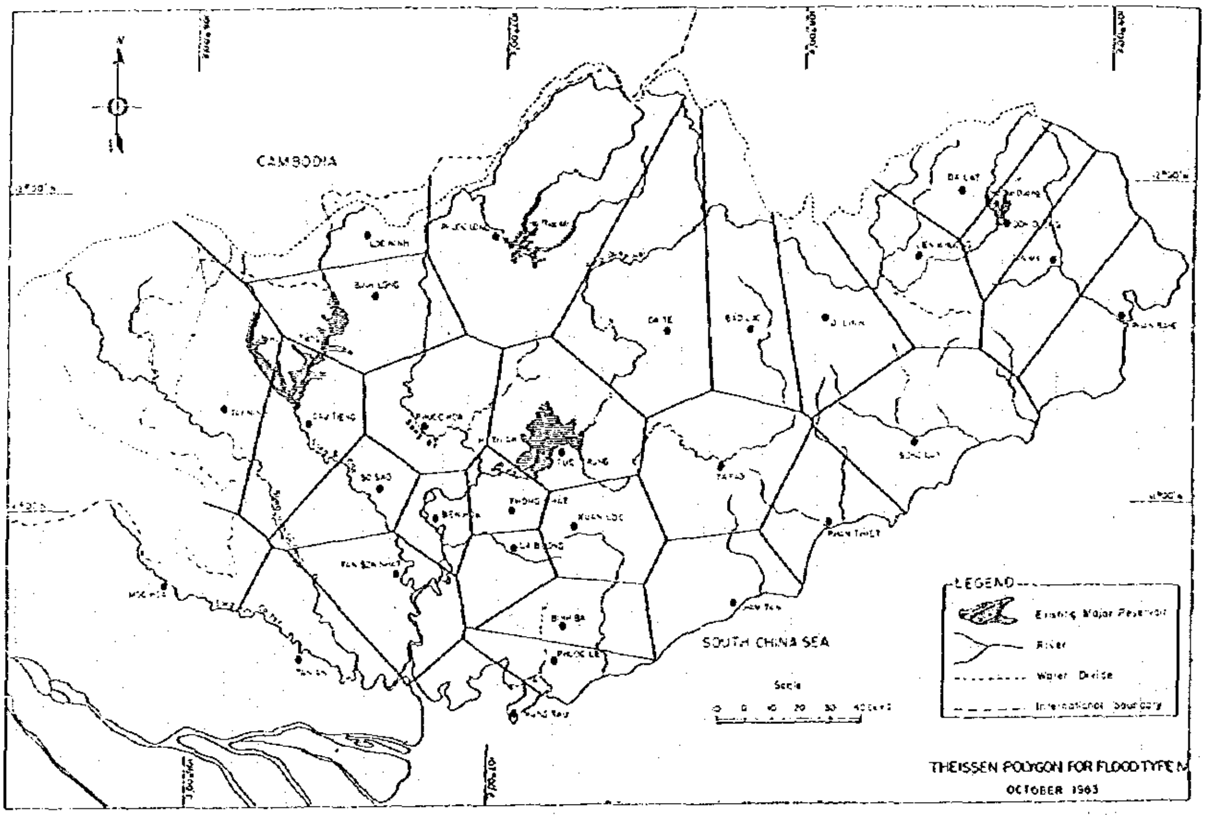
Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (2/6)

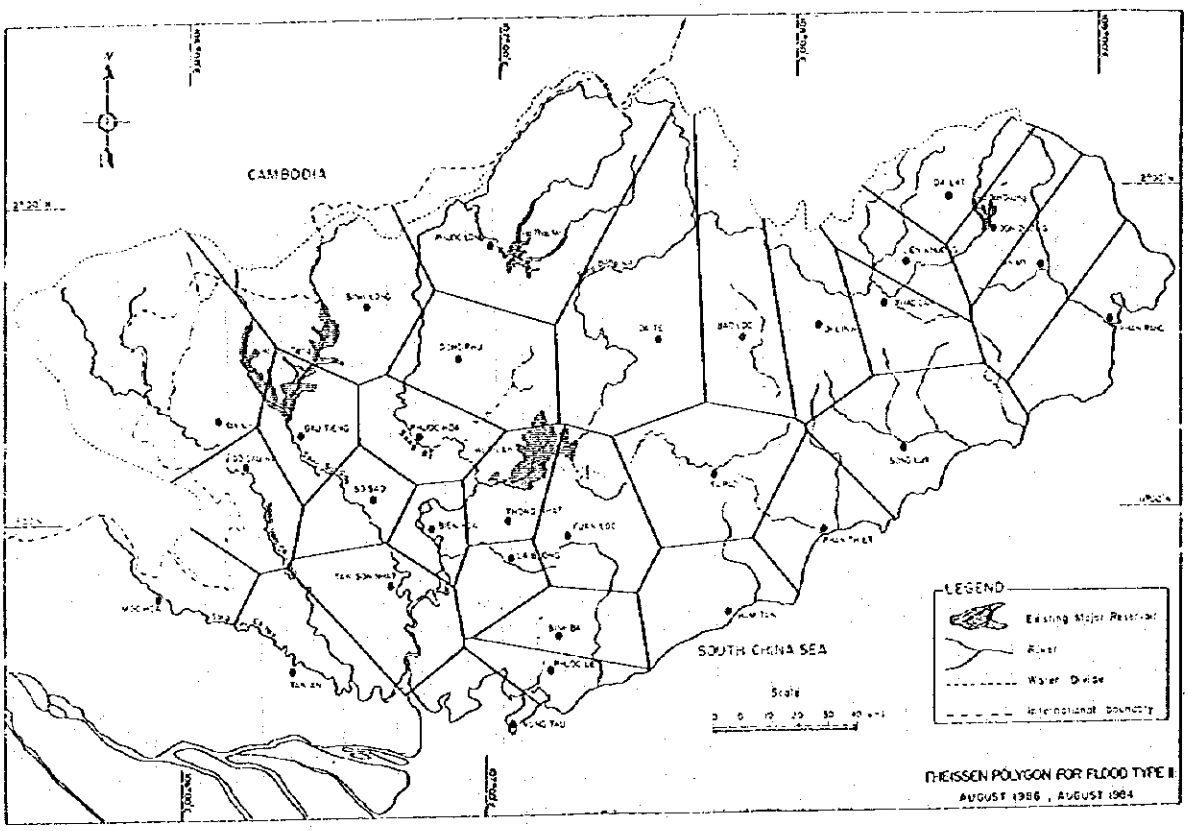


Type 4 (Period: October 1983)

	Station	DN 3	DN 6	Ta Lai	Tri An	Ham Thuan	Ta Pau	Phu Dien	Cai/DN-SN	Thac Mo		Ta Mieng	Phuoc Hoa	Loc Be/DN	QT (Saigon)	QT (SaiGon)
1	Bao Loc	0.039	0.293	0.148		0.699	0.063									
2	Bien Hoa															
3	Binh Ba															
4	Binh Long										55.000	0.029	0.405		0.430	0.274
5	Da Lat	0.152														
6	Da Te		0.582	0.779	0.018			0.094		0.056						
7	Dau Tieng														0.206	0.163
8	Di Linh	0.255				0.301	0.172									
9	Don Duong	0.071														
10	Dong Phu															
11	Go dau Ha															
12	Ham Tan															
13	La Buong															
14	Lien Khuong	0.402														
15	Loc Ninh										226.000	0.118			0.364	0.158
16	Long Thanh															
17	Moc Hoa															
18	Phan Rang															
19	Phuoc Hoa												0.351	0.457		
20	Phuoc Long		0.144	0.008						0.944	1629.000	0.853	0.244	0.217		
21	Phan Thiet															
22	Phuoc Le															
23	Song Luy															
24	So Sao															
25	Tan An															
26	Tan My															
27	Ta Pao			0.042			0.765	0.873	0.083							
28	Tay Ninh															0.405
29	Thac Can															
30	Thong Nhat				0.176									0.036		
31	Tan Son Nhat															
32	Tuc Trung			0.023	0.713			0.033	0.456					0.290		
33	Vung Tau															
34	Xuan Loc				0.092				0.461							
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1910.000	1.000	1.000	1.000	1.000	1.000

Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (3/6)



Type 2 (Period: August 1984, August 1986)

	Station	Dh 3	Dh 5	Ta La	Tri An	Ham Thuan	Ta Pao	Phu Dien	Con Dinh	Thac Mo	Ba Mang	Phuoc Hoa	cord Ba Dh	DT(Saigon)	DT(Sai Non)
1	Bac Loc	0.089	0.795	0.145		0.698	0.063								
2	Ben Hoa														
3	Binh Ba														
4	Binh Long										0.100	0.260		0.796	0.432
5	Da Lat	0.182													
6	Da Te		0.582	0.740	0.240			0.127	0.039	0.056					
7	Dau Tieng													0.206	0.163
8	Di Linh	0.212				0.301	0.172								
9	Dor Duong	0.071													
10	Dong Phu		0.010	0.043	0.129					0.026		0.316	0.458		
11	Go dau Ha														
12	Ham Tan														
13	La Buong														
14	Lien Khuong	0.260													
15	Loc Ninh														
16	Long Thanh														
17	Mac Hoa														
18	Phan Rang														
19	Phuoc Hoa											0.295	0.373		
20	Phuoc Long		0.134							0.917	0.900	0.129			
21	Phan Thiet														
22	Phuoc Le														
23	Song Lay														
24	So Sac														
25	Tan An														
26	Tan My														
27	Ta Pao			0.042			0.765	0.873	0.155						
28	Tay Ninh														0.405
29	Thac Mo	0.186													
30	Thong Nhat				0.408								0.036		
31	Tan Son Nhat												0.132		
32	Tuc Trung			0.023											
33	Vung Tau														
34	Xuan Loc				0.222				0.806						
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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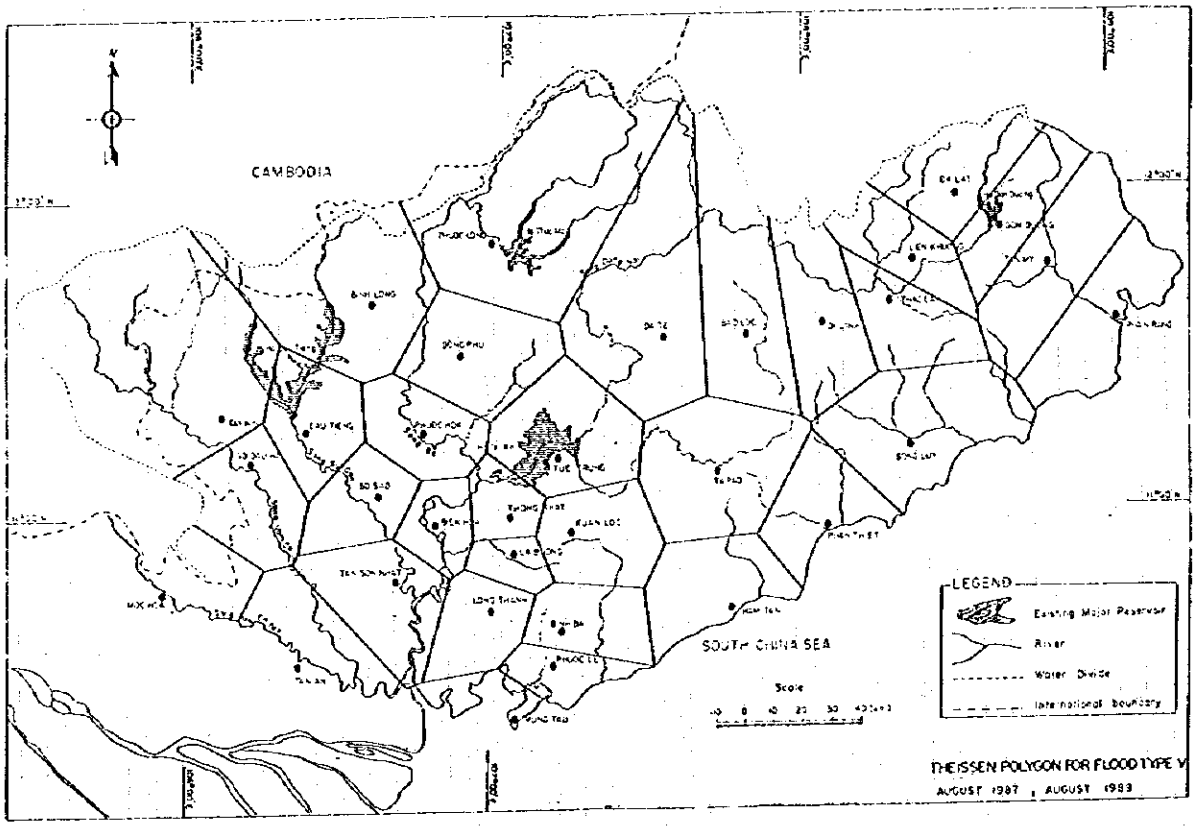
Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (4/6)



Type 5 (Period: August 1987 and August 1989)

	Station	DH 3	DH 6	Ta Lai	Tai An	Nam Nhan	Ta Pao	Phu Dien	Con Dao/LN	Thac Mo	Ba Mang	Phuoc Hoa	cord Ba/DN	DT(Saigon)	DT(SanDau)
1	Bao Loc	0.089	0.293	0.140		0.699	0.063								
2	Bien Hoa														
3	Binh Ba														
4	Binh Long										0.100	0.260		0.794	0.432
5	Da Lat	0.182													
6	Da Te		0.562	0.740	0.018			0.094		0.056					
7	Dau Tieng													0.206	0.163
8	Di Linh	0.272				0.301	0.172								
9	Gon Duong	0.073													
10	Dong Phu			0.047						0.026		0.316	0.458		
11	Go dau Ha														
12	Ham Tan														
13	La Buong														
14	Lien Khuong	0.260													
15	Loc Ninh														
16	Long Thanh														
17	Moc Hoa														
18	Phan Rang														
19	Phuoc Hoa											0.295	0.373		
20	Phuoc Long		0.144							0.917	0.900	0.129			
21	Phan Thiet														
22	Phuoc Le														
23	Song Lay														
24	So Sao														
25	Tan Ap														
26	Tan My														
27	Ta Pao			0.042			0.765	0.873	0.083						
28	Tay Ninh														0.405
29	Thac Can	0.185													
30	Thong Nhut				0.176								0.036		
31	Tan Son Nhat												0.132		
32	Tuc Trung			0.023	0.733			0.033	0.456						
33	Vung Tau														
34	Xuan Loc				0.092				0.451						
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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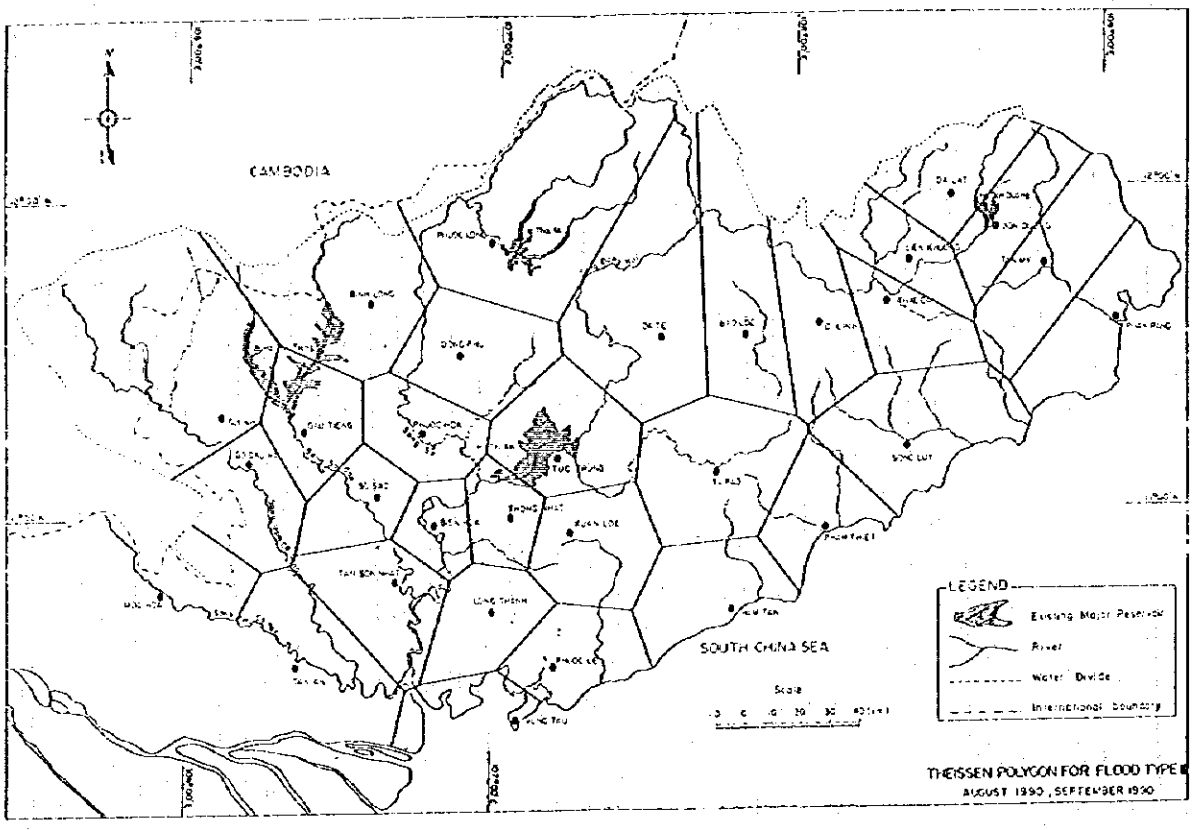
Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (5/6)



Type 3 (Period August and September 1990)

	Station	Ghi 3	Dinh	Ta Lai	Tri An	Ham Thuan	Ta Pao	Phu Dien	Con Dao/Lin	Thac Mo	Fu Mieng	Phuoc Hoa	coal Ba Ria	Di (Saigon)	Di (Saigon)
1	Bac Loc	0.088	0.293	0.145		0.699	0.063								
2	Ben Ica														
3	Binh Ba														
4	Binh Long										0.100	0.260		0.794	0.432
5	Da Lat	0.182													
6	Da Te		0.562	0.740	0.010			0.094	0.039	0.056					
7	Dau Tieng													0.206	0.163
8	Di Linh	0.212				0.301	0.172								
9	Duc Duong	0.071													
10	Dong Phu			0.047						0.036		0.316	0.458		
11	Go dau Ha														
12	Ham Tan														
13	La Buong														
14	Lien Khuong	0.260													
15	Loc Ninh														
16	Long Thanh														
17	Moc Hoa														
18	Phan Rang														
19	Phuoc Hoa											0.295	0.373		
20	Phuoc Long		0.144							0.917	0.900	0.129			
21	Phan Thiet														
22	Phuoc Le														
23	Song Luy														
24	Sa Sao														
25	Tan An														
26	Tan My														
27	Ta Pao			0.042			0.765	0.673	0.155						
28	Tay Ninh														0.405
29	Thac Ean	0.185													
30	Thong Nhut				0.176								0.036		
31	Tan Son Nhut												0.132		
32	Tuc Trung			0.023	0.313			0.033							
33	Vung Tau														
34	Xuan Loc				0.092				0.806						
	Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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Figure 3.18

Thiessen Polygon of Rainfall Stations for Flood Analysis (6/6)

1978 -FLOOD

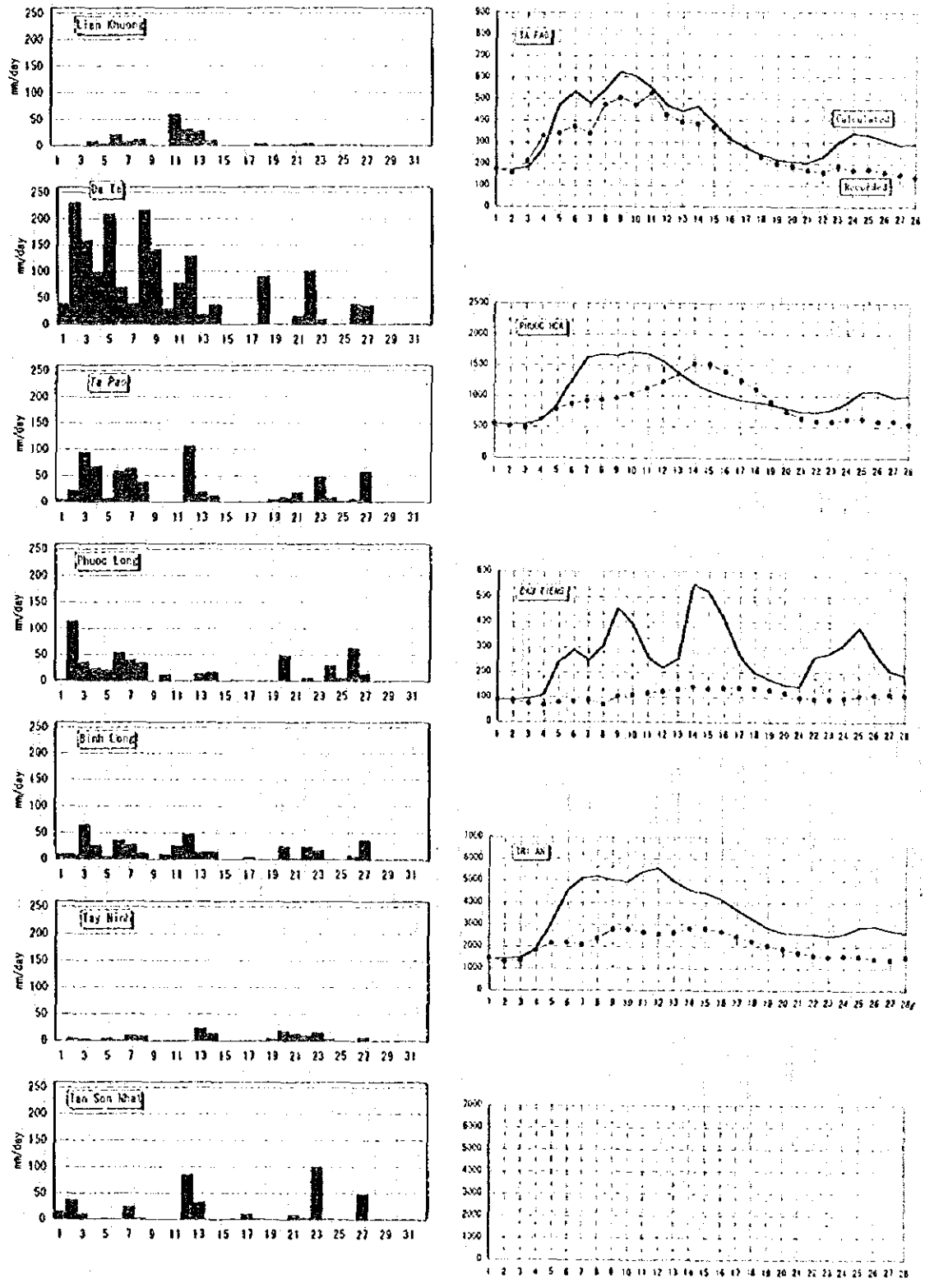

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Figure 3.19

Calibration Result of Flood Runoff Model (1/6)

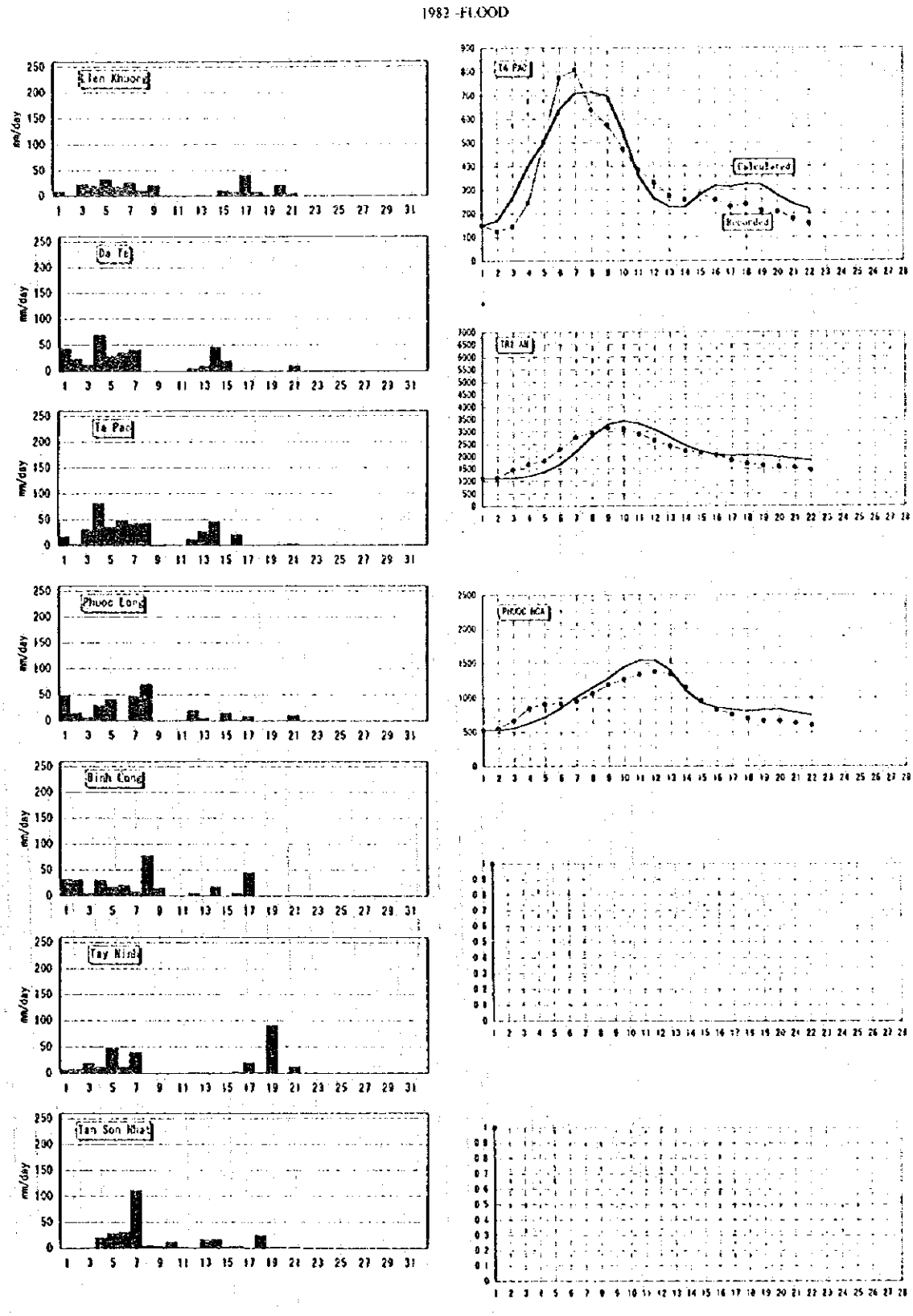

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Figure 3.19

Calibration Result of Flood Runoff Model (2/6)

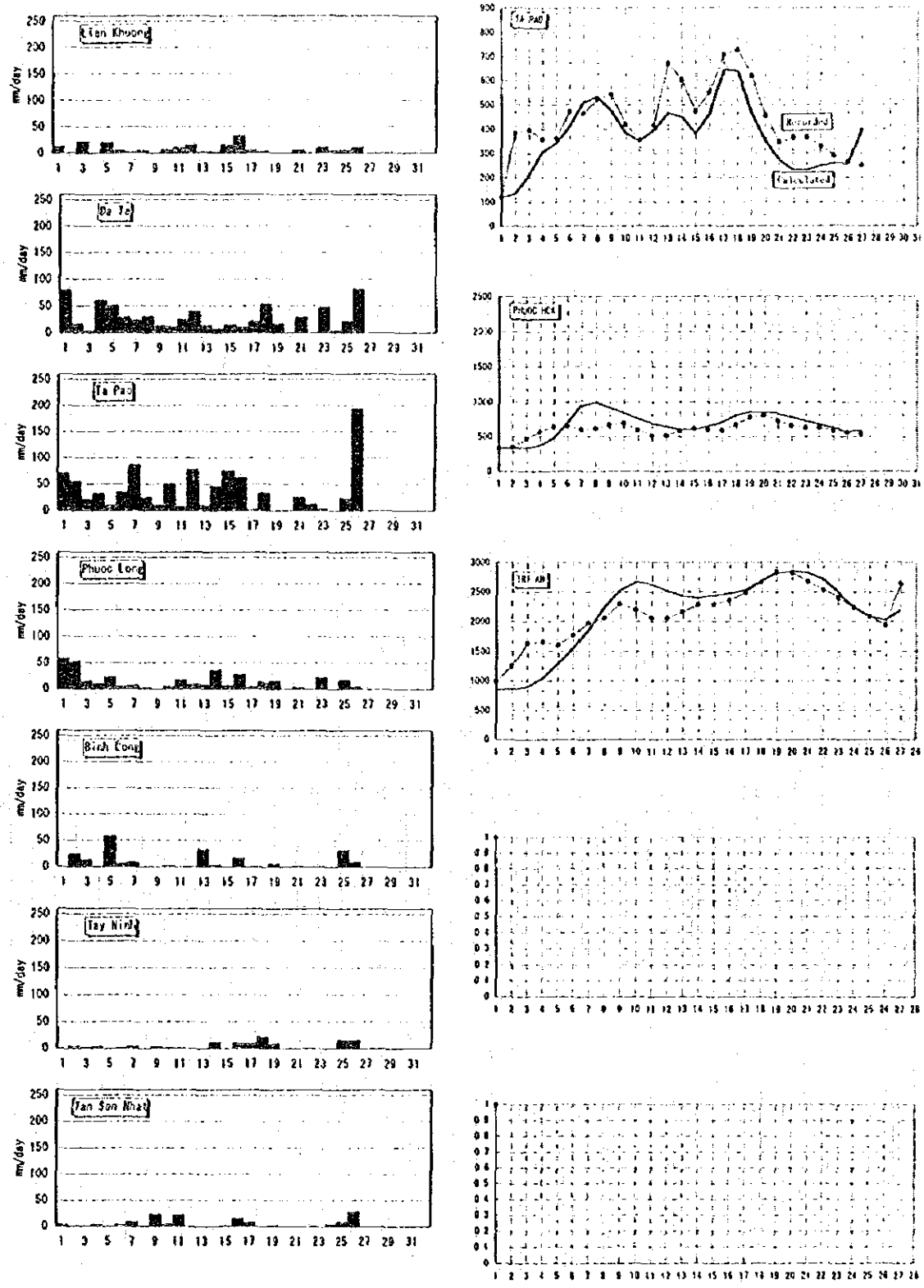

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Figure 3.19

Calibration Result of Flood Runoff Model (3/6)

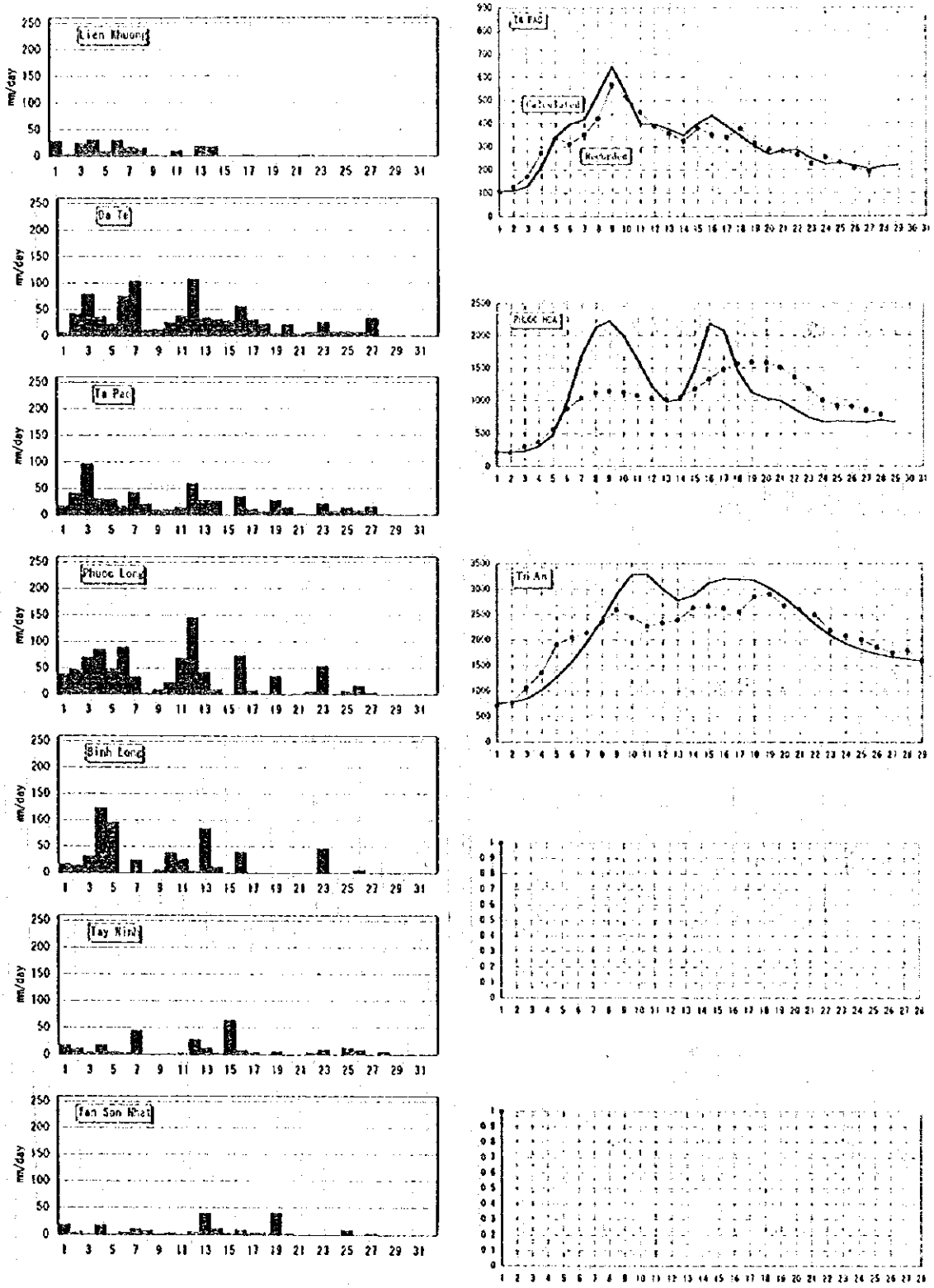

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Figure 3.19

Calibration Result of Flood Runoff Model (4/6)

1987 -FLOOD

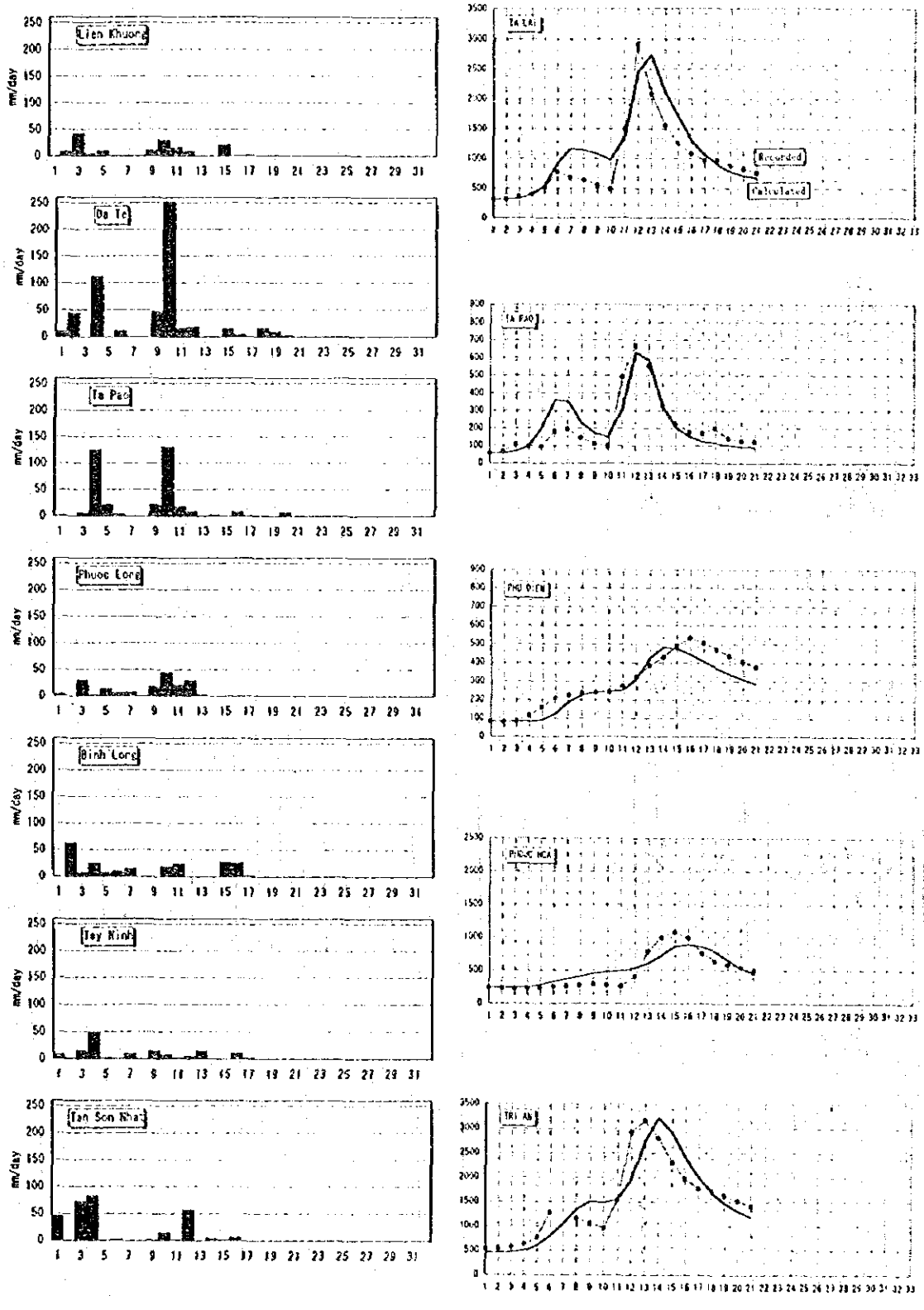

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Figure 3.19

Calibration Result of Flood Runoff Model (5/6)

1990 -FLOOD

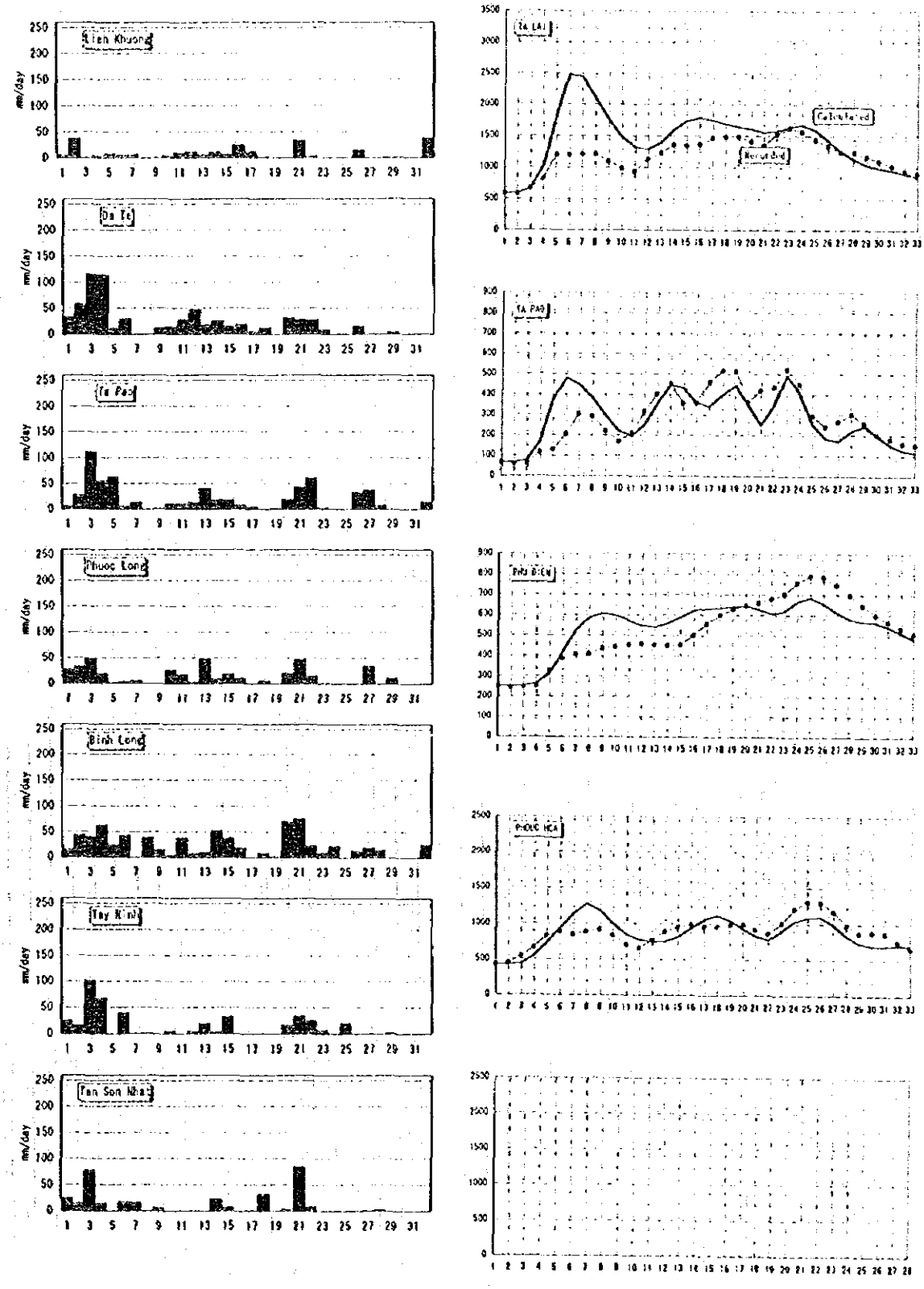

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Figure 3.19

Calibration Result of Flood Runoff Model (6/6)

NO	STATION	DONG NAI				CANGAI				BE R				SAIGON R.	
		1	2	3	4	11	12	13	14	21	22	23	24	31	32
1	Bao Loc	0.24	0.05	0.44		1.00	1.00	0.33							
2	Blao Hoa				0.05								0.05	0.46	
5	Da Lat	0.76													
7	Dau Tieng												0.33	0.05	0.05
16	Long Thanh														
20	Phuoc Long		0.35	0.14	0.41								1.00	0.49	0.42
28	Tay Ninh														0.32
31	Tan Son Nhat														
33	Vung Tau														
34	Xuan Loc												0.67	1.00	
	TOTAL	1.00	1.00	1.00	0.46	1.00	1.00	0.33	0.49	1.00	1.00	1.00	1.00	1.00	1.00

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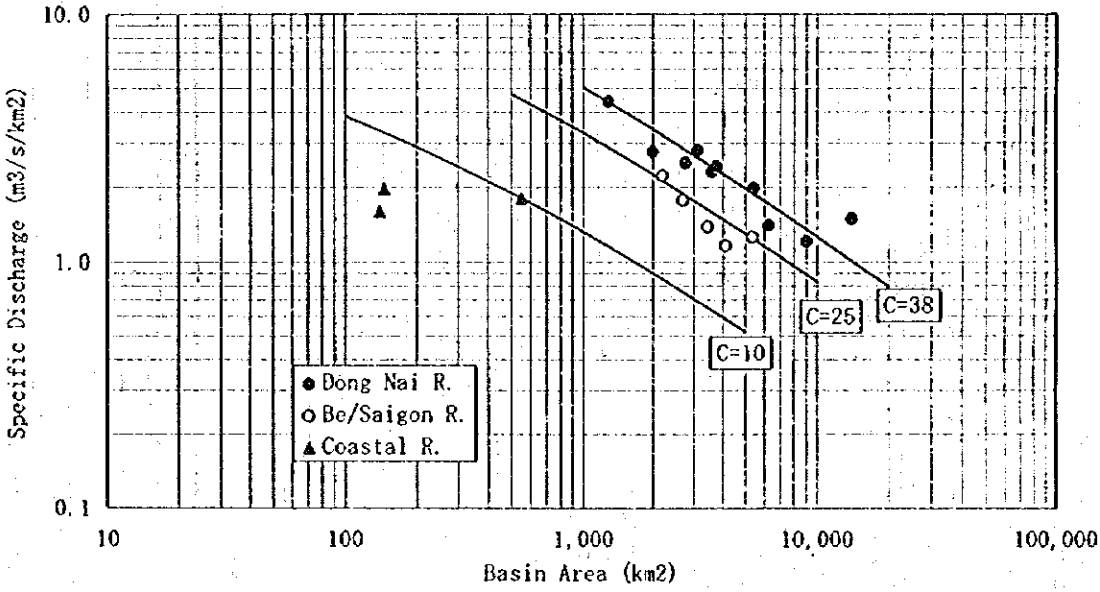
Figure 3.20

Thiessen Polygon for the Selected Rain Gauges

Design Discharge for Spillway

Specific Design Discchargе for Spillway



Creager's C-values of Existing and Prposed Dams

Dam	A(km2)	Q(m3/s)	Q/A	C	Cave	Cmax
DONG NAI RIVER					38.0	56.2
D.N.#1	2778	6976	2.51	33.7		
D.N.#2	3115	8800	2.83	40.5		
D.N.#3	3586	8300	2.31	36.2		
D.N.#4	3751	9100	2.43	39.0		
D.N.#5	5421	10767	1.99	40.1		
D.N.#6	6276	8850	1.41	31.2		
D.N.#8	9043	11000	1.22	34.1		
TriAn	14025	21000	1.50	56.2		
HamThuan	1287	5700	4.43	38.2		
La Nga	2000	5560	2.78	30.7		
BE/SAIGON RIVERS					23.2	26.0
ThacMo	2200	4900	2.23	26.0		
CanDon	3440	4790	1.39	21.2		
FuMieng	4110	4800	1.17	19.8		
PhuocHoa	5357	6780	1.27	25.3		
DauTieng	2700	4800	1.78	23.4		
COASTAL RIVERS					6.9	10.0
Ca Giay	146	288	1.97	5.9		
Luy R.	554	1000	1.81	10.0		
Ca Tot	140	224	1.60	4.7		

Remarks: C = Q / (A^A^(-0.05))

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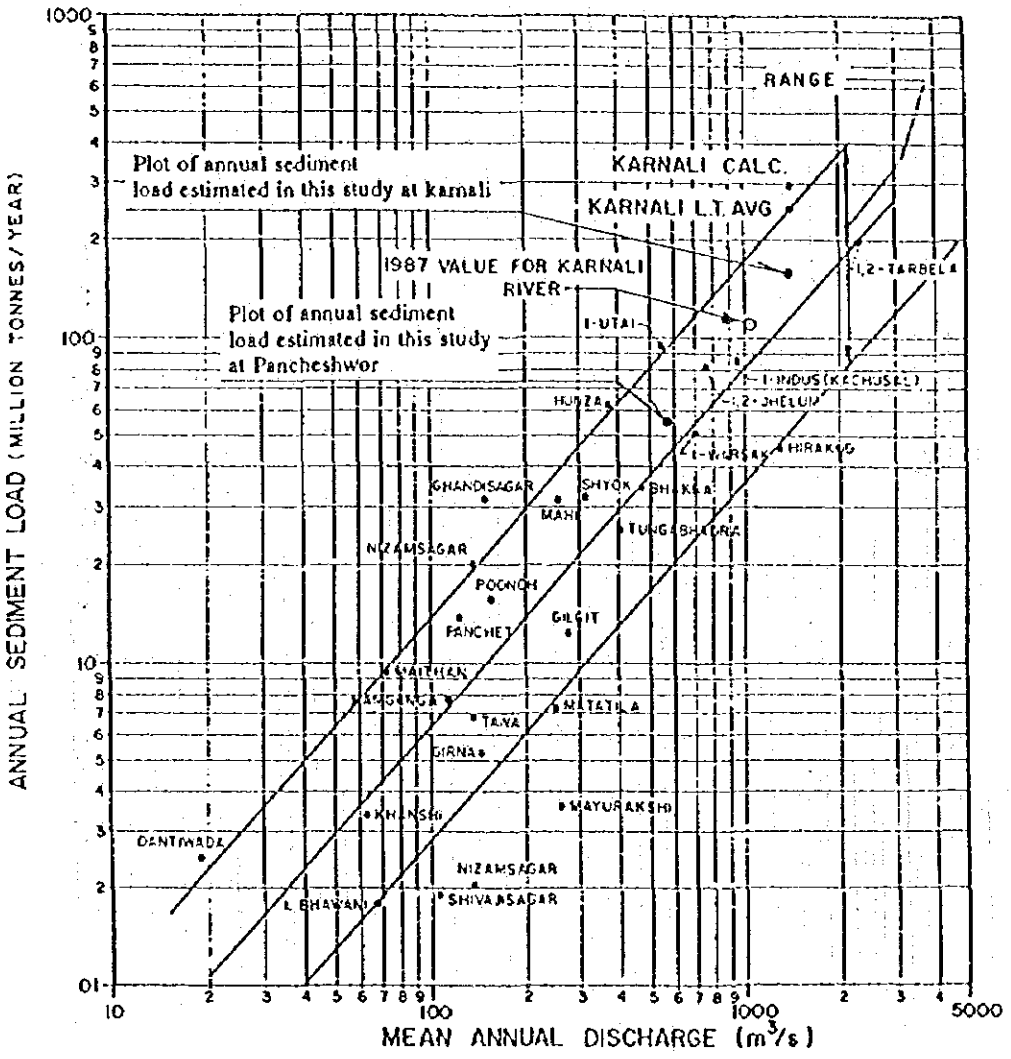
Figure 3.21

Design Discharge for Spillway



Source: Master Plan Study for Water Resources Development of the Uppoer Kamali River and Mahakali River Basins, (JICA; 1992)

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Figure 3.22
Annual Sediment Deposit Rates in India Subcontinental Reservoirs

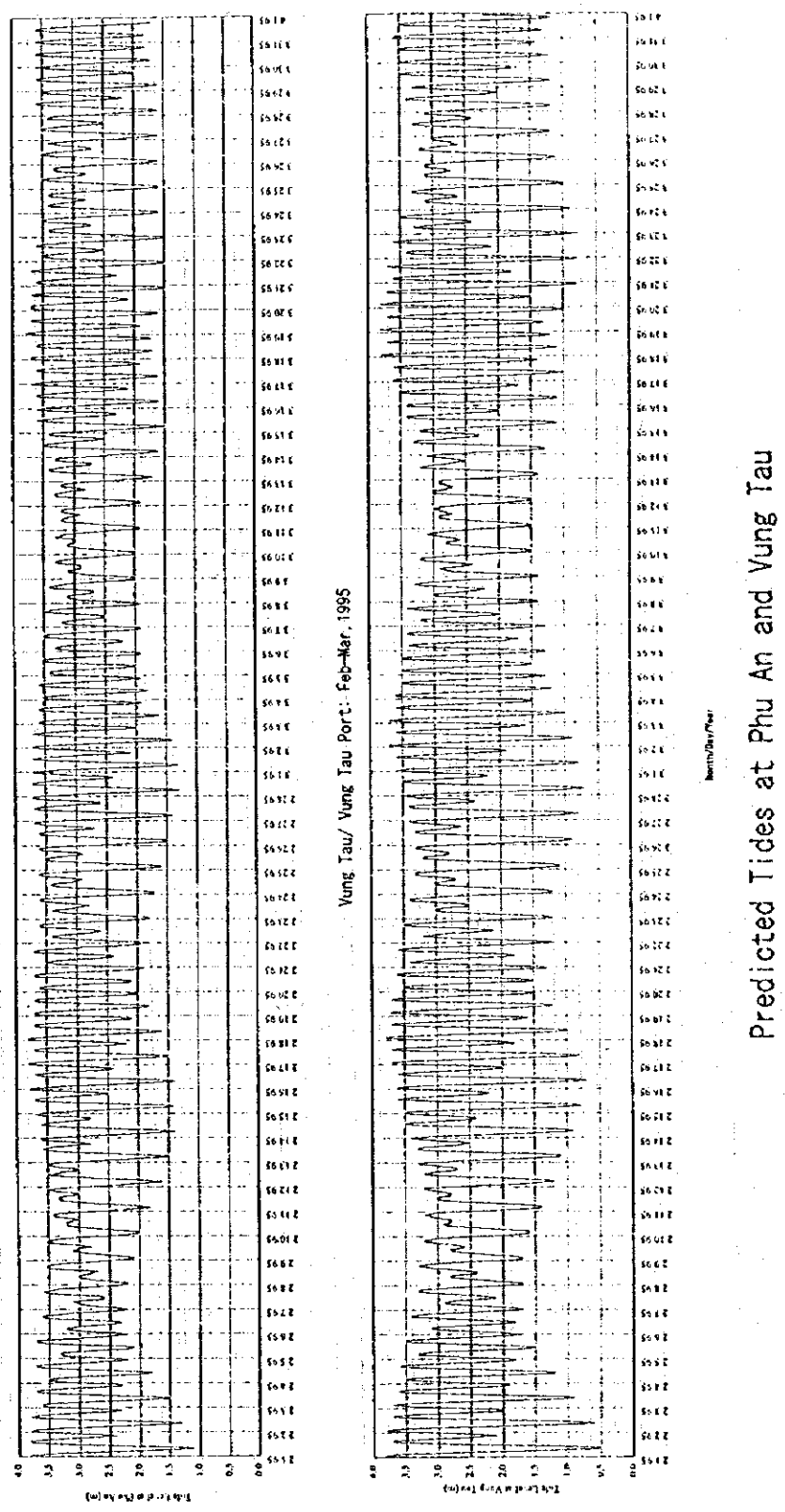

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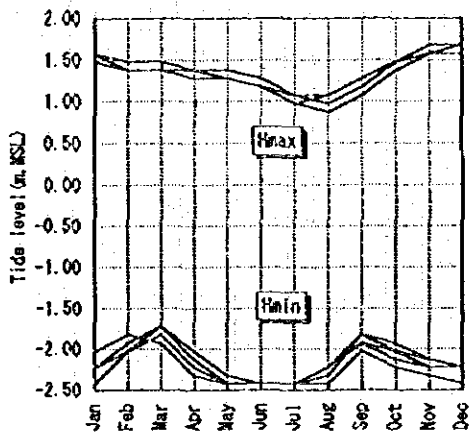
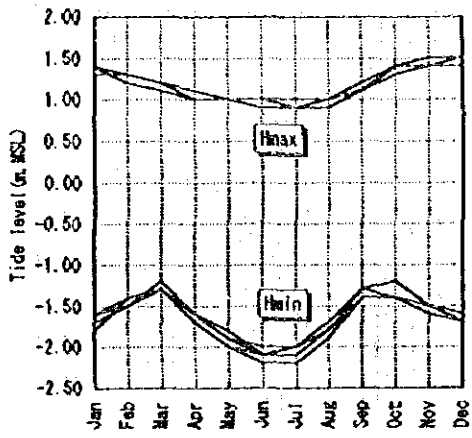
Figure 3.23

Predicted Tides at Phu An and Vung Tau

VUNG TAU



SAIGON PORT/PHU AN



Predicted Tide Level (1991-1995)

VUNG TAU

Month	1991		1992		1993		1994		1995		Average		5-yr.extreme	
	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin
Jan	1.58	-2.42	1.48	-2.22	1.58	-2.22	1.48	-2.02	1.58	-2.22	1.54	-2.22	1.58	-2.42
Feb	1.38	-2.02	1.38	-2.02	1.48	-2.02	1.38	-1.82	1.38	-1.92	1.40	-1.96	1.48	-2.02
Mar	1.38	-1.82	1.38	-1.72	1.48	-1.72	1.38	-1.92	1.38	-1.72	1.40	-1.78	1.48	-1.92
Apr	1.38	-2.22	1.28	-2.12	1.38	-2.02	1.28	-2.32	1.38	-2.12	1.34	-2.16	1.38	-2.32
May	1.38	-2.42	1.28	-2.42	1.28	-2.32	1.28	-2.42	1.38	-2.42	1.32	-2.40	1.38	-2.42
Jun	1.28	-2.42	1.18	-2.42	1.18	-2.42	1.18	-2.42	1.28	-2.42	1.22	-2.42	1.28	-2.42
Jul	1.08	-2.42	1.08	-2.42	0.98	-2.42	0.98	-2.42	1.08	-2.42	1.04	-2.42	1.08	-2.42
Aug	0.98	-2.42	1.08	-2.22	1.08	-2.22	0.88	-2.22	0.98	-2.32	1.00	-2.28	1.08	-2.42
Sep	1.18	-2.02	1.28	-1.92	1.28	-1.92	1.08	-1.82	1.18	-1.82	1.20	-1.90	1.28	-2.02
Oct	1.48	-2.22	1.48	-2.02	1.48	-2.12	1.38	-1.92	1.48	-2.02	1.46	-2.06	1.48	-2.22
Nov	1.68	-2.32	1.58	-2.12	1.68	-2.22	1.58	-2.12	1.68	-2.22	1.64	-2.20	1.68	-2.32
Dec	1.68	-2.42	1.58	-2.22	1.68	-2.22	1.68	-2.22	1.68	-2.22	1.66	-2.26	1.68	-2.42
Average	1.37	-2.26	1.34	-2.15	1.38	-2.15	1.30	-2.14	1.37	-2.15	1.35	-2.17	1.38	-2.26

Averge of rainy months(May-Sep): 1.27 -2.24

Note: Tide in MSL-datum = (Tide table value)-2.42m for Vung Tau

SAIGON PORT

Month	1991		1992		1993		1994		1995		Average		5-yr.extreme	
	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin	Hmax	Hmin
Jan	1.41	-1.79	1.41	-1.69	1.41	-1.59	1.31	-1.59	1.41	-1.69	1.39	-1.67	1.41	-1.79
Feb	1.21	-1.39	1.31	-1.49	1.31	-1.49	1.31	-1.39	1.21	-1.49	1.27	-1.45	1.31	-1.49
Mar	1.11	-1.29	1.21	-1.19	1.21	-1.29	1.21	-1.29	1.11	-1.29	1.17	-1.27	1.21	-1.29
Apr	1.01	-1.69	1.01	-1.59	1.01	-1.59	1.11	-1.69	1.01	-1.59	1.03	-1.63	1.11	-1.69
May	1.01	-1.99	1.01	-1.79	1.01	-1.89	1.01	-1.99	1.01	-1.89	1.01	-1.91	1.01	-1.99
Jun	1.01	-2.19	1.01	-2.09	0.91	-1.99	1.01	-2.09	1.01	-2.09	0.99	-2.09	1.01	-2.19
Jul	1.01	-2.19	1.01	-2.09	0.91	-1.99	0.91	-1.99	1.01	-1.99	0.97	-2.05	1.01	-2.19
Aug	1.01	-1.89	1.01	-1.79	1.01	-1.69	0.91	-1.69	1.01	-1.79	0.99	-1.77	1.01	-1.89
Sep	1.11	-1.39	1.11	-1.39	1.21	-1.29	1.11	-1.29	1.11	-1.29	1.13	-1.33	1.21	-1.39
Oct	1.41	-1.39	1.31	-1.39	1.41	-1.39	1.41	-1.19	1.31	-1.39	1.37	-1.35	1.41	-1.39
Nov	1.51	-1.59	1.41	-1.49	1.41	-1.49	1.41	-1.49	1.41	-1.49	1.43	-1.51	1.51	-1.59
Dec	1.51	-1.69	1.41	-1.59	1.41	-1.59	1.41	-1.69	1.51	-1.69	1.45	-1.65	1.51	-1.69
Average	1.19	-1.71	1.19	-1.63	1.19	-1.61	1.16	-1.62	1.18	-1.64	1.18	-1.64	1.19	-1.71

Averge of rainy months(May-Sep): 1.13 -1.72

Note: Tide in MSL-datum = (Tide table value)-2.59m for Saigon Port/Phu An

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Figure 3.24

Predicted Mean Tide Level

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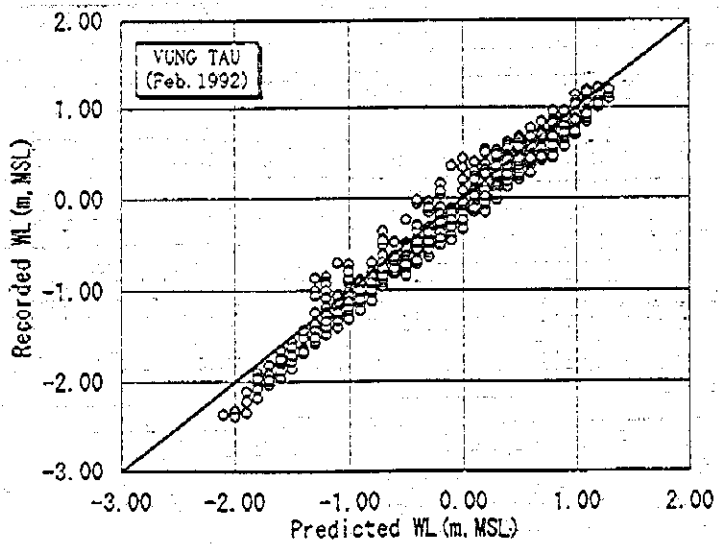
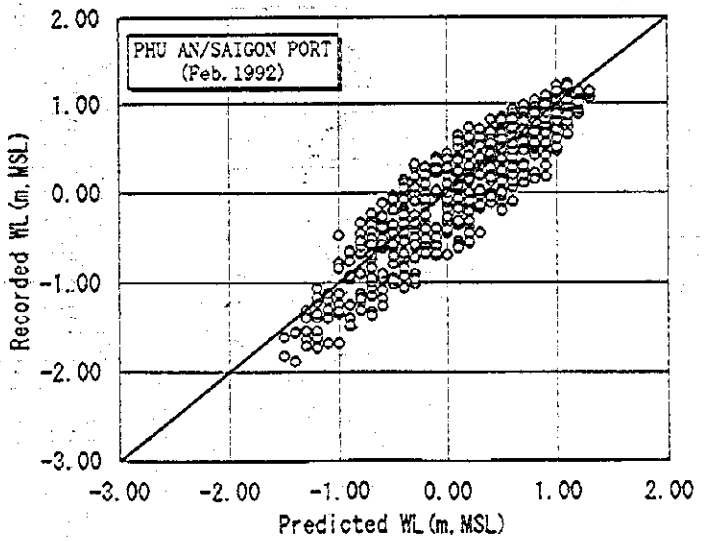




Vung Tau

Month	Tm (m) Max.	Ave.	Min.
Jan	0.41	-0.09	-0.48
Feb	0.46	-0.10	-0.44
Mar	0.52	-0.14	-0.48
Apr	0.36	-0.05	-0.42
May	0.42	0.01	-0.32
Jun	0.56	0.03	-0.58
Jul	0.58	0.11	-0.30
Aug	0.72	0.07	-0.78
Sep	0.54	0.02	-0.52
Oct	0.58	0.16	-0.20
Nov	0.50	0.05	-0.42
Dec	0.30	-0.07	-0.40
	0.72	0.00	-0.78

* Tm: Difference between recorded and predicted tides in 1992

0.16	Mean W.L. at Phu An in 1992
0	MSL-datum/ Gauge datum of Phu An sta.
-0.08	Mean W.L. at Vung Tau in 1992
-2.42	Tide table datum for Vung Tau
-2.59	Tide table datum for Phu An
-2.72	Gauge datum at Vung Tau sta.

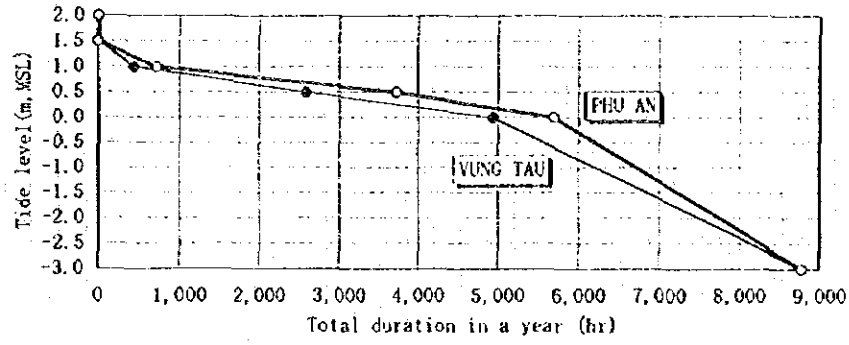
Unit:m, MSL
(out of scale)

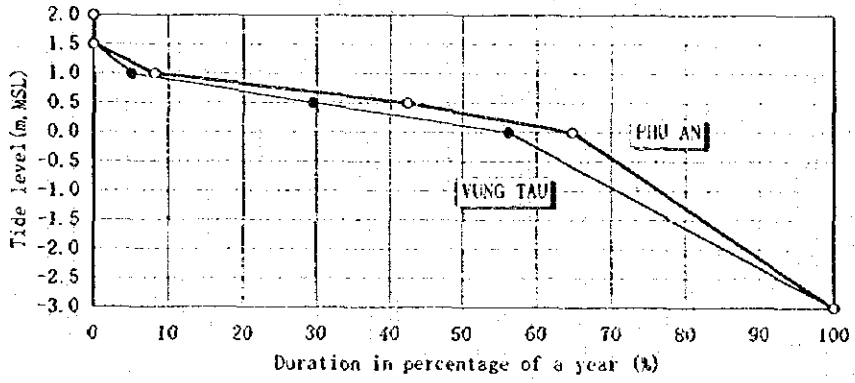
Phu An

Month	Tm (m) Max.	Ave	Min.
Jan	1.02	0.00	-0.90
Feb	0.62	-0.07	-0.76
Mar	0.70	-0.06	-0.80
Apr	0.96	0.03	-0.82
May	0.70	0.05	-0.77
Jun	0.74	0.02	-0.90
Jul	0.62	0.04	-0.75
Aug	0.60	-0.01	-0.74
Sep	0.80	-0.05	-0.96
Oct	0.97	0.07	-0.71
Nov	1.04	0.02	-0.67
Dec	0.66	-0.06	-0.81
	1.04	0.00	-0.96

RECORDED AND PREDICTED TIDES

Figure 3.25
Recorded and Predicted Tides





Tide in 1992				
Elevation	Tide level-duration			
	Vung Tau		Phu An/Saigon P.	
(m, MSL)	(hr)	(%)	(hr)	(%)
2.0 or more	0	0	0	0
1.5 to 2.0	2	0	0	0
1.0 to 1.5	449	5	725	8
0.5 to 1.0	2,593	30	3,726	42
0.0 to 0.5	4,942	56	5,702	65
-3.0 to 0.0	8,784	100	8,784	100

Tide Level and Duration

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Figure 3.26

Tide Level and Duration

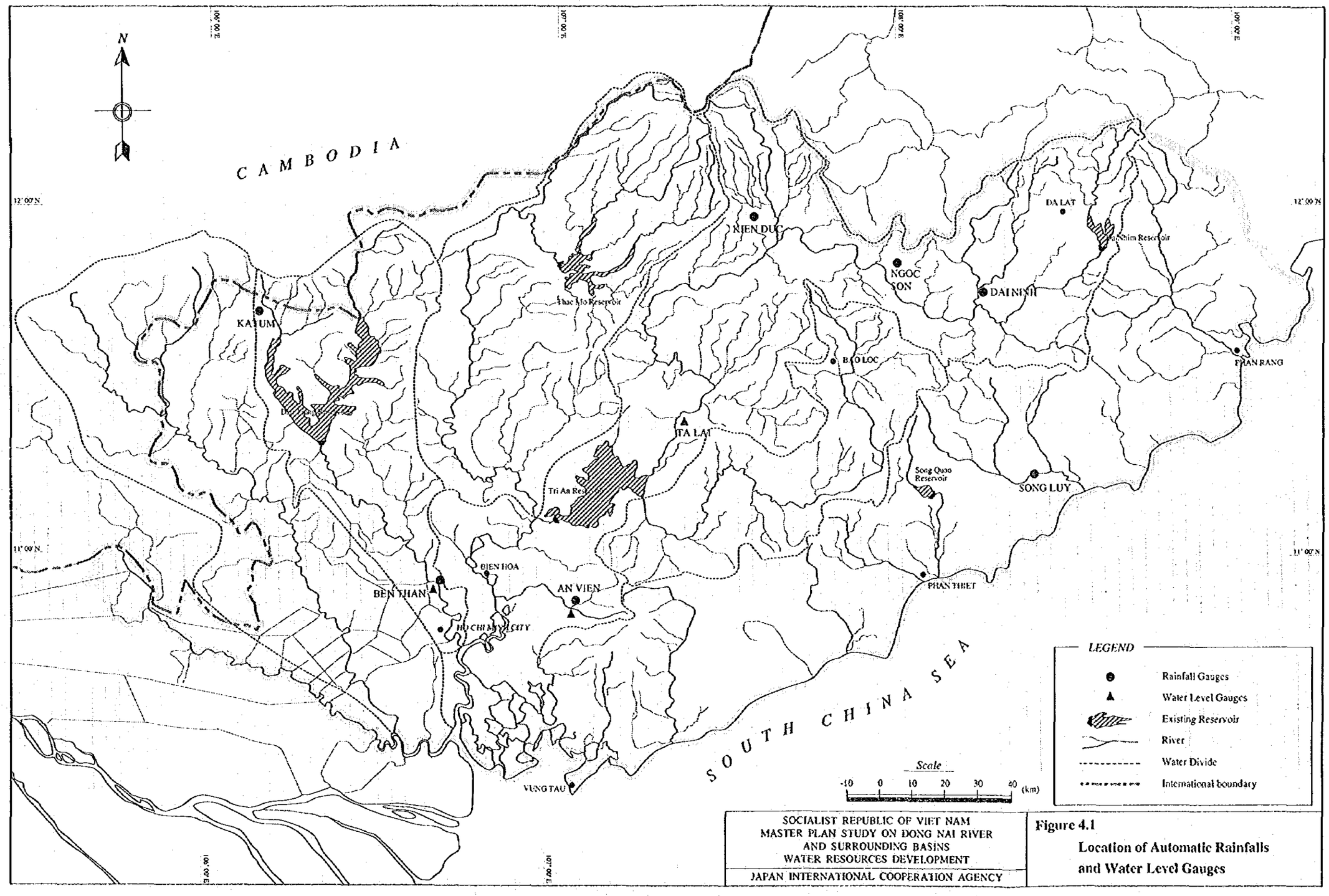

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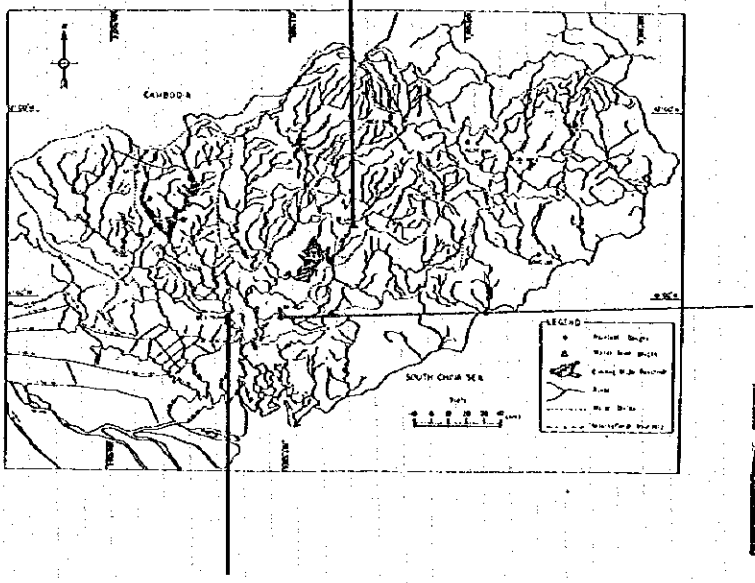
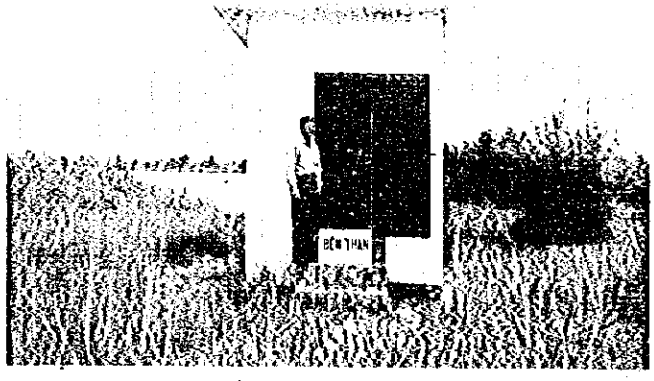
Figure 4.1
Location of Automatic Rainfalls and Water Level Gauges





SOCIALIST REPUBLIC OF VIET NAM MASTER PLAN STUDY ON DONG NAI RIVER AND SURROUNDING BASINS WATER RESOURCES DEVELOPMENT JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 4.2** **Installed Automatic Water Level Stations**

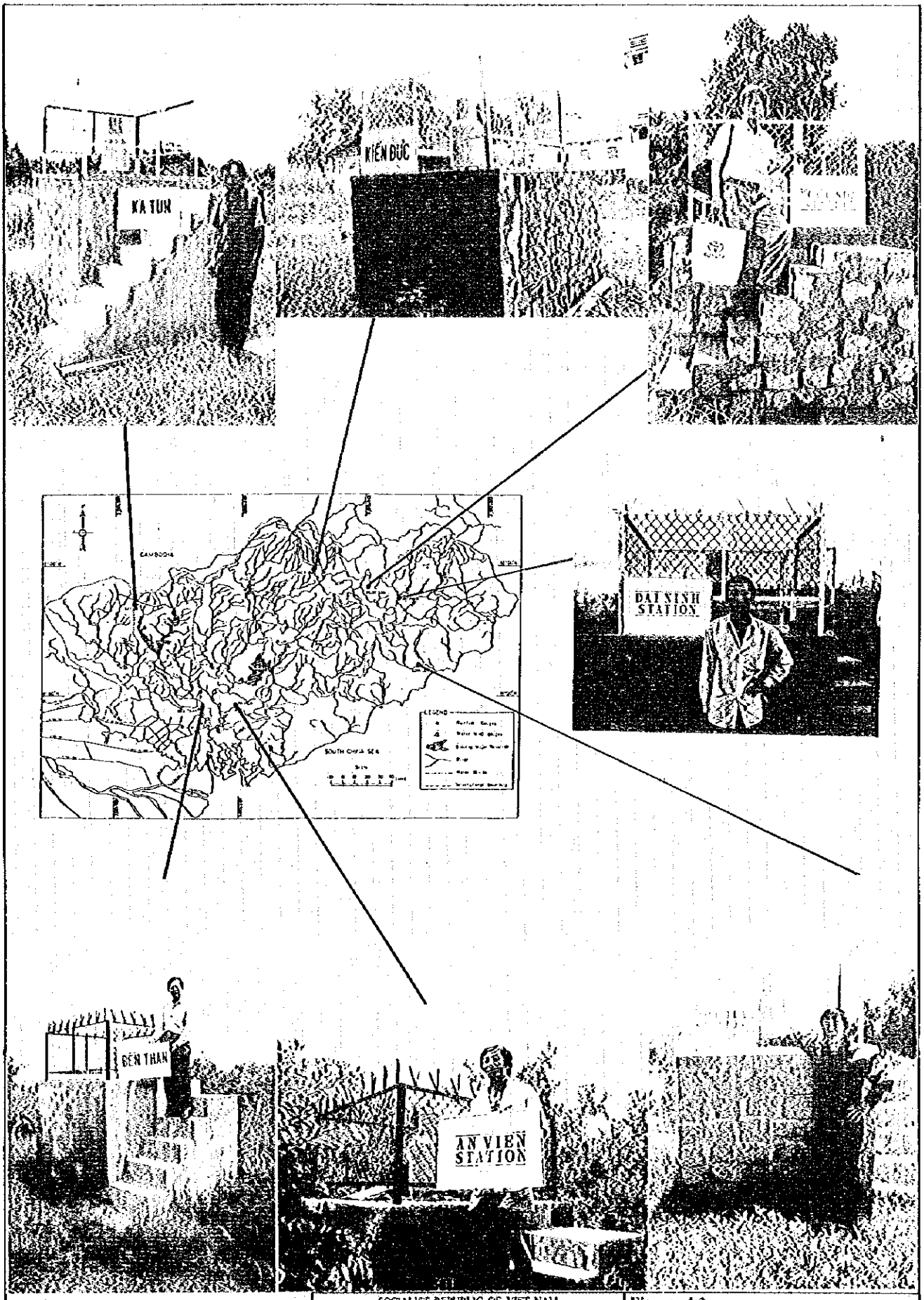


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Figure 4.3

Installed Automatic Rainfall Stations