

# 添付表

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表 S.1 総括事業費 (No.3 + No.4 プロジェクト)

(million US\$)

Description	No.3	No.4	Total
<b>I. Base Cost</b>			
<b>(1) Preparatory Works (LCB)</b>			
L-1 : Access road	4.0	5.4	9.4
L-2 : Base camp	2.0	2.0	4.0
L-3 : Power supply system	0.5	0.1	0.6
Subtotal (1)	6.5	7.5	14.0
<b>(2) Main Construction Works (ICB)</b>			
I-1-3/4 : Diversion Tunnel	24.7	17.5	42.2
I-2-3/4 : Main Civil Works	178.0	139.2	317.2
I-3-3/4 : Hydromechanical Works	21.2	21.1	42.3
I-4-3/4 : Hydroelectrical Works	57.9	69.6	127.5
I-5-3/4 : Transmission Line	5.1	4.7	9.8
Subtotal (2)	286.9	252.1	539.0
Subtotal (1)+(2)	293.4	259.6	553.0
<b>(3) Engineering Service</b>	22.0	19.5	41.5
<b>(4) Administration</b>	2.1	1.8	3.9
<b>(5) Land Compensation and Resettlement</b>	10.6	0.0	10.6
Subtotal (1) to (5)	328.1	280.9	609.0
<b>(6) Tax</b>	15.8	14.0	14.0
Subtotal I (Base cost)	343.9	294.9	638.8
<b>II. Contingency</b>			
Price Contingency	22.6	21.3	43.9
Physical Contingency	30.0	24.4	54.4
Subtotal II (Contingency)	52.6	45.7	98.3
<b>Total Project Cost</b>	<b>396.5</b>	<b>340.6</b>	<b>737.1</b>

表 S.2 經濟的内部收益率計算

(Unit: US\$ million)

No.	Year	Capital costs			O & M costs	Total costs	Economic benefits				Total benefits		B - C	
		F.C.	L.C.	Total			Case A		Case B		Case A:	Case B:	Case A:	Case B:
							Dong Nai	Tri An	Dong Nai	Tri An	Alt.Therm.	IRMC	Alt.Therm.	IRMC
1	2001	5.1	2.3	7.4		7.4					0.0	0.0	(7.4)	(7.4)
2	2002	6.4	9.2	15.6		15.6					0.0	0.0	(15.6)	(15.6)
3	2003	16.8	22.0	38.8		38.8					0.0	0.0	(38.8)	(38.8)
4	2004	38.3	34.7	73.0		73.0					0.0	0.0	(73.0)	(73.0)
5	2005	68.7	50.5	119.2		119.2					0.0	0.0	(119.2)	(119.2)
6	2006	119.1	59.8	178.9		178.9					0.0	0.0	(178.9)	(178.9)
7	2007	112.5	56.3	168.8		168.8					0.0	0.0	(168.8)	(168.8)
8	2008	27.3	14.2	41.5	2.6	44.1	49.5	1.9	50.3	5.9	51.4	56.2	7.3	12.1
9	2009	3.3	0.4	3.7	5.6	9.3	106.0	1.9	106.5	5.9	107.9	112.4	98.6	103.1
10	2010				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	106.2
11	2011				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
12	2012				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
13	2013				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
14	2014				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
15	2015				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
16	2016				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
17	2017				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
18	2018				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
19	2019				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
20	2020				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
21	2021				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
22	2022				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
23	2023				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
24	2024				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
25	2025				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
26	2026				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
27	2027				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
28	2028				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
29	2029			178.5	6.2	184.7	116.6	1.9	117.1	5.9	118.5	123.0	(66.2)	(61.7)
30	2030				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
31	2031				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
32	2032				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
33	2033				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
34	2034				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
35	2035				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
36	2036				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
37	2037				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
38	2038				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
39	2039				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
40	2040				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
41	2041				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
42	2042				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
43	2043				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
44	2044				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
45	2045				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
46	2046				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
47	2047				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
48	2048			178.5	6.2	184.7	116.6	1.9	117.1	5.9	118.5	123.0	(66.2)	(61.7)
49	2049				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
50	2050				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
51	2051				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
52	2052				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
53	2053				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
54	2054				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
55	2055				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
56	2056				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
57	2057				6.2	6.2	116.6	1.9	117.1	5.9	118.5	123.0	112.3	116.8
58	2058			(124.3)	6.2	(118.1)	116.6	1.9	117.1	5.9	118.5	123.0	236.6	241.1

Note: 1) Abbreviations:

F.C.: Foreign currency portion

L.C.: Local currency portion

O & M: Operation and maintenance costs

Alt.Therm.: Alternative thermal

EIRR = 13.1% 13.5%

表 S.3 財務的内部収益率の計算 (FIRR)

(in case of 4.5 US¢/kWh)

		Capital costs			O&M costs	Total costs	Saleable energy (GWh)	Power rate (US¢/kWh)	Financial revenue	Resources		B - C
No.	Year	F.C.	L.C.	Total						tax & VAT	Current surplus	
1	2001	5.2	2.7	7.9		7.9						(7.9)
2	2002	6.6	11.8	18.4		18.4						(18.4)
3	2003	17.4	26.8	44.2		44.2						(44.2)
4	2004	40.1	42.4	82.5		82.5						(82.5)
5	2005	72.6	62.3	134.9		134.9						(134.9)
6	2006	124.6	75.7	200.3		200.3						(200.3)
7	2007	119.2	70.0	189.2		189.2						(189.2)
8	2008	28.2	17.4	45.6	2.5	48.1	757	4.5	34.1	4.1	30.0	(18.2)
9	2009	3.6	0.6	4.2	5.4	9.6	1,514	4.5	68.1	8.2	60.0	50.3
10	2010				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
11	2011				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
12	2012				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
13	2013				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
14	2014				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
15	2015				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
16	2016				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
17	2017				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
18	2018				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
19	2019				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
20	2020				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
21	2021				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
22	2022				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
23	2023				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
24	2024				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
25	2025				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
26	2026				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
27	2027				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
28	2028				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
29	2029			169.8	6.0	175.8	1,657	4.5	74.6	8.9	65.6	(110.2)
30	2030				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
31	2031				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
32	2032				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
33	2033				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
34	2034				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
35	2035				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
36	2036				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
37	2037				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
38	2038				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
39	2039				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
40	2040				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
41	2041				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
42	2042				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
43	2043				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
44	2044				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
45	2045				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
46	2046				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
47	2047				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
48	2048			169.8	6.0	175.8	1,657	4.5	74.6	8.9	65.6	(110.2)
49	2049				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
50	2050				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
51	2051				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
52	2052				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
53	2053				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
54	2054				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
55	2055				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
56	2056				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
57	2057				6.0	6.0	1,657	4.5	74.6	8.9	65.6	59.6
58	2058			(120.8)	6.0	(114.8)	1,657	4.5	74.6	8.9	65.6	180.4

Note: 1) Abbreviations:

F.C.: Foreign currency portion  
L.C.: Local currency portion

2) Project construction cost excluding Transmission Line cost:

	F.C.	L.C.	Total
Civil	176.9	182.4	359.3
Metal	150.6	19.2	169.8
Others	90.0	108.1	198.1
Total	417.5	309.7	727.2

FIRR=

6.5%

表 S4 プロジェクトローン返済計画検討 (ケース I-1)

Tariff rate=US¢4.5/kWh;FC:LC=85%:15%;FC=3.5% p.a. (US\$ million)

No.	Year	Power sales revenue		Loans received		Total sources	Capital costs		O & M costs	Outstanding loan principal	Repayment of principal	Interest payment		Resources tax & VAT	Total uses	Current surplus	Corporate tax payment	Surplus after tax	Cumulative surplus	Year
		Foreign (85%)	Domestic (15%)	Foreign (85%)	Domestic (15%)		F.C.	L.C.				Foreign (3.5%)	Domestic (13.0%)							
1	2001	6.7	1.2	7.9	5.2	7.9	2.7	7.9	2.5	7.9	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	2001
2	2002	15.6	2.8	18.4	6.6	18.4	11.8	18.4	5.4	26.3	0.0	0.0	0.0	0.0	18.4	0.0	0.0	0.0	0.0	2002
3	2003	37.6	6.6	44.2	17.4	44.2	26.8	44.2	6.0	69.7	31.5	21.7	14.9	8.9	83.1	13.6	40.9	61.5	53.0	2003
4	2004	70.1	12.4	82.5	40.1	82.5	42.4	82.5	6.0	69.7	31.5	20.2	11.3	8.9	78.0	0.0	0.0	0.0	0.0	2004
5	2005	114.7	20.2	134.9	72.6	134.9	62.3	134.9	6.0	60.1	31.5	18.7	8.5	8.9	73.8	0.8	0.2	0.6	0.6	2005
6	2006	170.3	30.0	200.3	124.6	200.3	75.7	200.3	6.0	56.9	31.5	18.0	7.1	8.9	71.6	2.9	0.7	2.2	2.2	2006
7	2007	160.8	28.4	189.2	119.2	189.2	70.0	189.2	6.0	50.6	31.5	16.6	4.3	8.9	67.3	7.2	1.8	5.4	60.2	2007
8	2008	34.1	6.3	39.7	23.2	39.7	17.4	45.6	2.5	72.0	0.0	0.0	0.0	4.1	32.2	27.4	6.9	20.6	20.6	2008
9	2009	68.1	3.6	72.3	3.6	72.3	0.6	4.2	5.4	72.2	8.2	14.9	8.9	8.2	17.8	54.5	13.6	40.9	61.5	2009
10	2010	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	69.7	31.5	21.7	14.9	8.9	83.1	13.6	40.9	61.5	53.0	2010
11	2011	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	69.7	31.5	20.2	11.3	8.9	78.0	0.0	0.0	0.0	0.0	2011
12	2012	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	69.7	31.5	19.5	9.9	8.9	75.9	0.0	0.0	0.0	0.0	2012
13	2013	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	60.1	31.5	18.7	8.5	8.9	73.8	0.8	0.2	0.6	0.6	2013
14	2014	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	56.9	31.5	18.0	7.1	8.9	71.6	2.9	0.7	2.2	2.2	2014
15	2015	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	53.8	31.5	17.3	5.7	8.9	69.5	5.1	1.3	3.8	54.8	2015
16	2016	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	50.6	31.5	16.6	4.3	8.9	67.3	7.2	1.8	5.4	60.2	2016
17	2017	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	47.5	31.5	15.9	2.8	8.9	65.2	9.4	2.3	7.0	67.2	2017
18	2018	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	44.3	31.5	15.1	1.4	8.9	63.1	11.5	2.9	8.6	75.8	2018
19	2019	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	41.2	31.5	14.4	0.0	8.9	60.9	13.6	3.4	10.2	86.1	2019
20	2020	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	39.1	20.6	13.7	0.0	8.9	49.3	6.3	6.3	19.0	105.0	2020
21	2021	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	37.0	20.6	13.0	0.0	8.9	48.6	26.0	6.5	19.5	124.5	2021
22	2022	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	35.0	20.6	12.3	0.0	8.9	47.9	26.7	6.7	20.0	144.5	2022
23	2023	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	32.9	20.6	11.5	0.0	8.9	47.1	27.4	6.9	20.6	165.1	2023
24	2024	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	30.9	20.6	10.8	0.0	8.9	46.4	28.2	7.0	21.1	186.2	2024
25	2025	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	28.8	20.6	10.1	0.0	8.9	45.7	28.9	7.2	21.7	207.9	2025
26	2026	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	26.7	20.6	9.4	0.0	8.9	45.0	29.6	7.4	22.2	230.1	2026
27	2027	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	24.7	20.6	8.7	0.0	8.9	44.2	30.3	7.6	22.7	252.8	2027
28	2028	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	22.6	20.6	7.9	0.0	8.9	43.5	31.0	7.8	23.3	276.1	2028
29	2029	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	20.6	20.6	7.2	0.0	8.9	42.8	31.0	8.1	24.4	300.0	2029
30	2030	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	18.5	20.6	6.5	0.0	8.9	42.1	32.5	8.1	24.4	324.4	2030
31	2031	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	16.4	20.6	5.8	0.0	8.9	41.4	33.2	8.3	24.9	349.3	2031
32	2032	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	14.4	20.6	5.0	0.0	8.9	40.6	33.9	8.5	25.4	374.7	2032
33	2033	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	12.3	20.6	4.3	0.0	8.9	39.9	34.6	8.7	26.0	400.7	2033
34	2034	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	10.3	20.6	3.6	0.0	8.9	39.2	35.4	8.8	26.5	427.2	2034
35	2035	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	8.2	20.6	2.9	0.0	8.9	38.5	36.1	9.0	27.1	454.3	2035
36	2036	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	6.1	20.6	2.2	0.0	8.9	37.8	36.8	9.2	27.6	481.9	2036
37	2037	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	4.1	20.6	1.4	0.0	8.9	37.0	37.5	9.4	28.1	509.0	2037
38	2038	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	2.0	20.6	0.7	0.0	8.9	36.3	38.3	9.6	28.7	536.7	2038
39	2039	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	0.0	20.6	0.0	0.0	8.9	35.6	39.0	9.7	29.2	564.9	2039
40	2040	74.6	0.6	74.6	0.6	74.6	0.6	4.2	6.0	0.0	0.0	0.0	0.0	8.9	35.0	39.6	14.9	44.7	604.6	2040

Note: 1) Abbreviations:

F.C.: Foreign currency portion

L.C.: Local currency portion

2) Project construction cost:

	F.C.	L.C.	Total
Civil	176.9	182.4	359.3
Metal	150.6	19.2	169.8
Others	90.0	108.1	198.1
Total	417.5	309.7	727.2

# 添付図





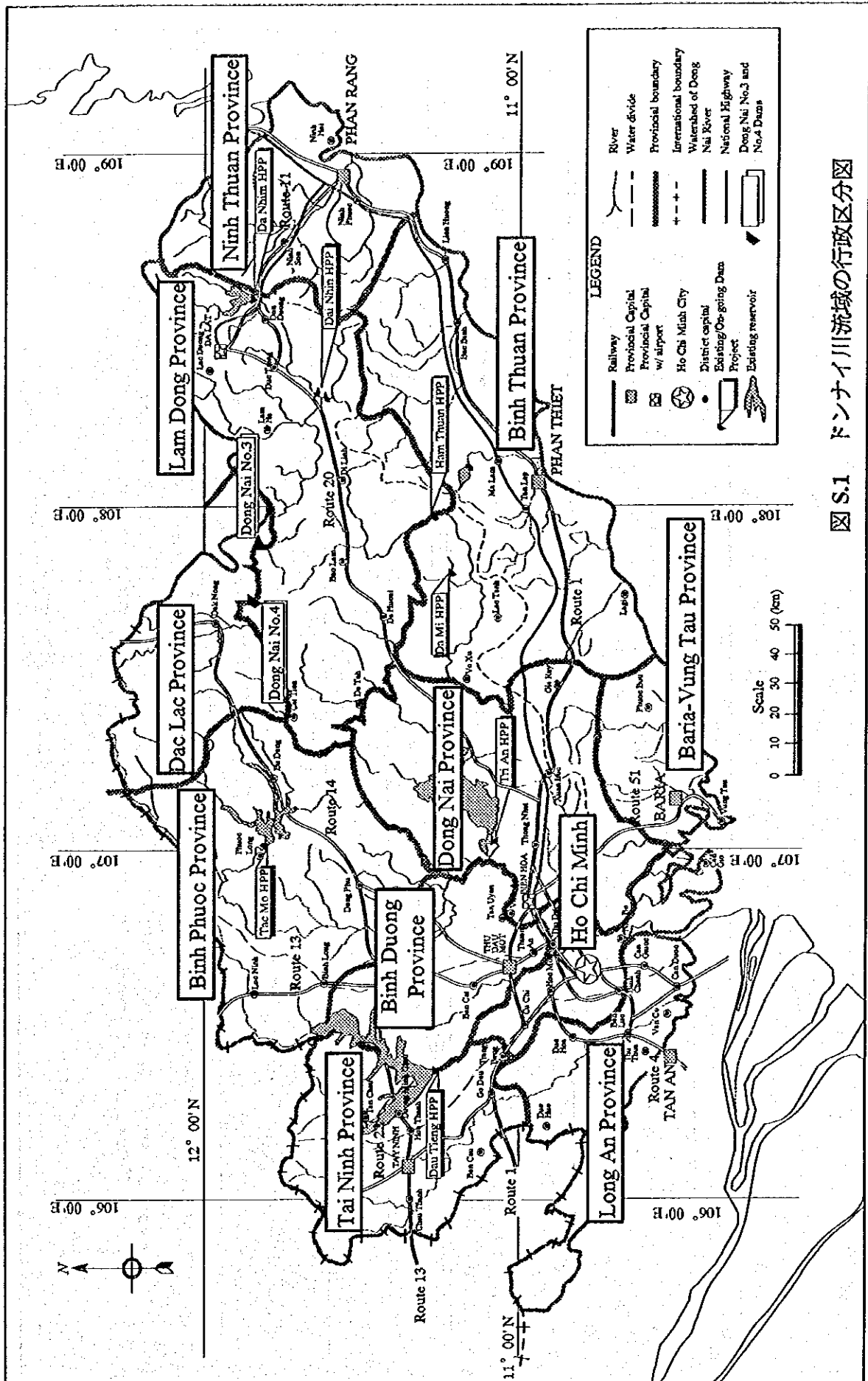


図 S.1 トンキン川流域の行政区区分図

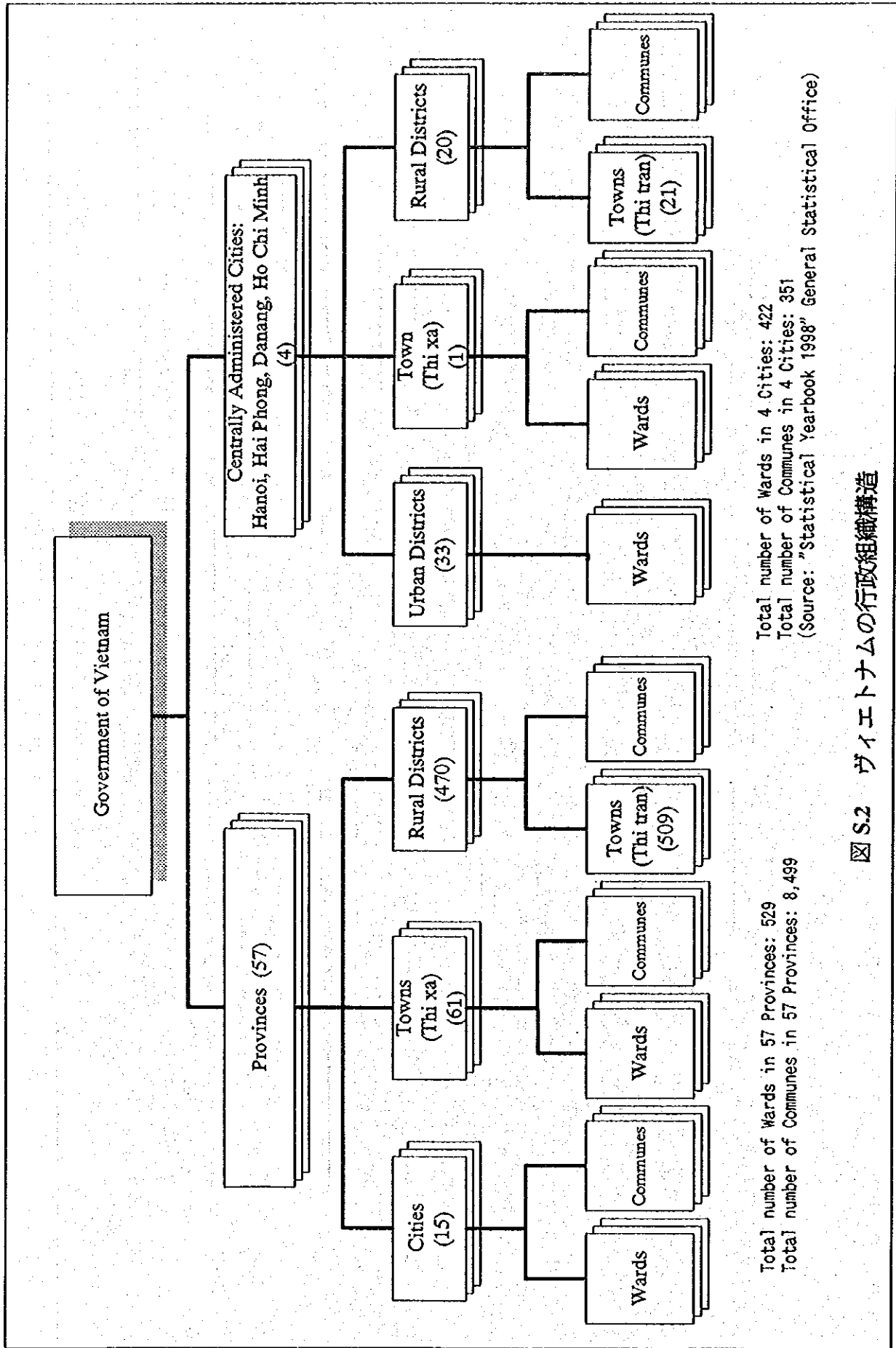
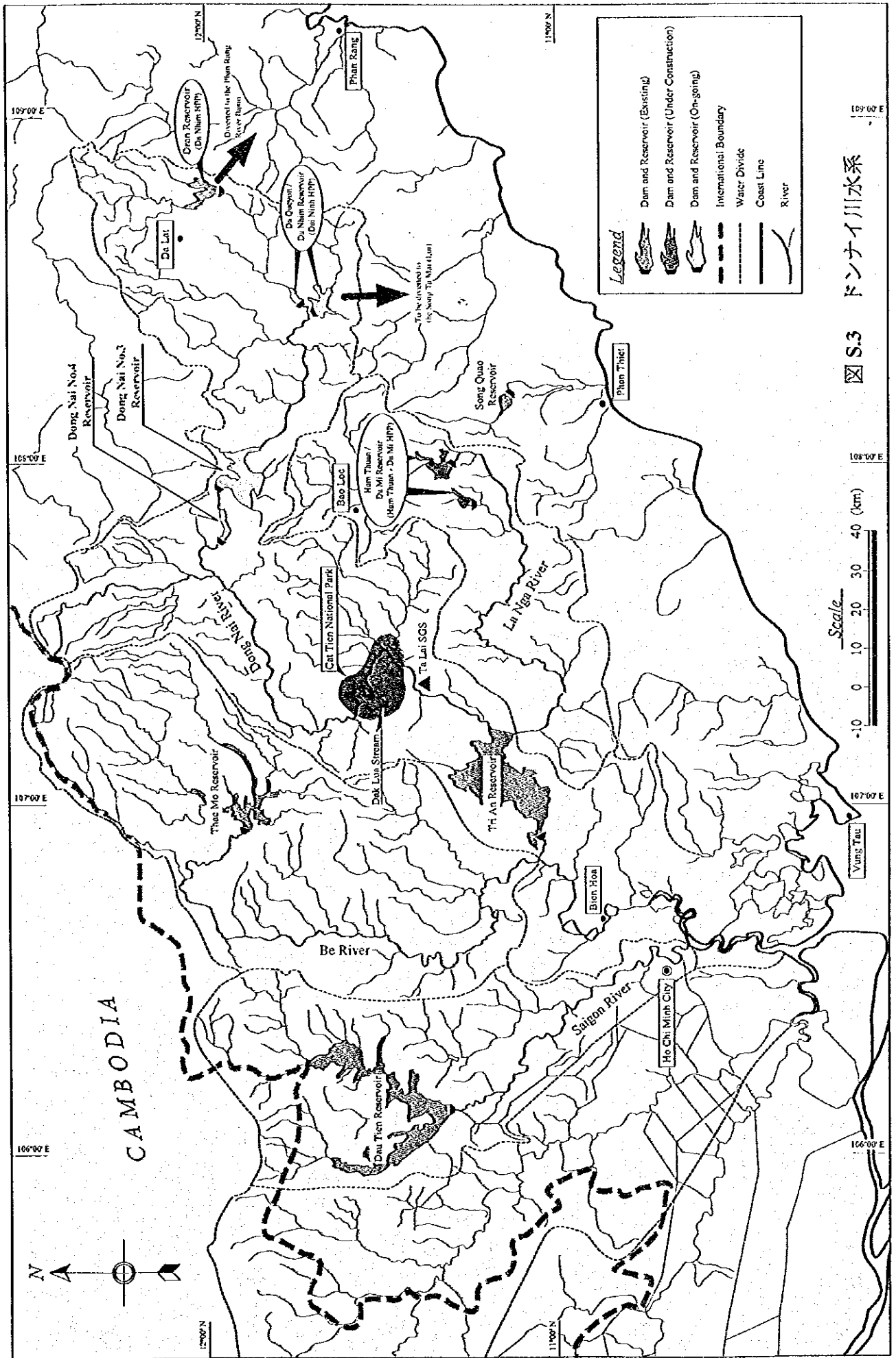
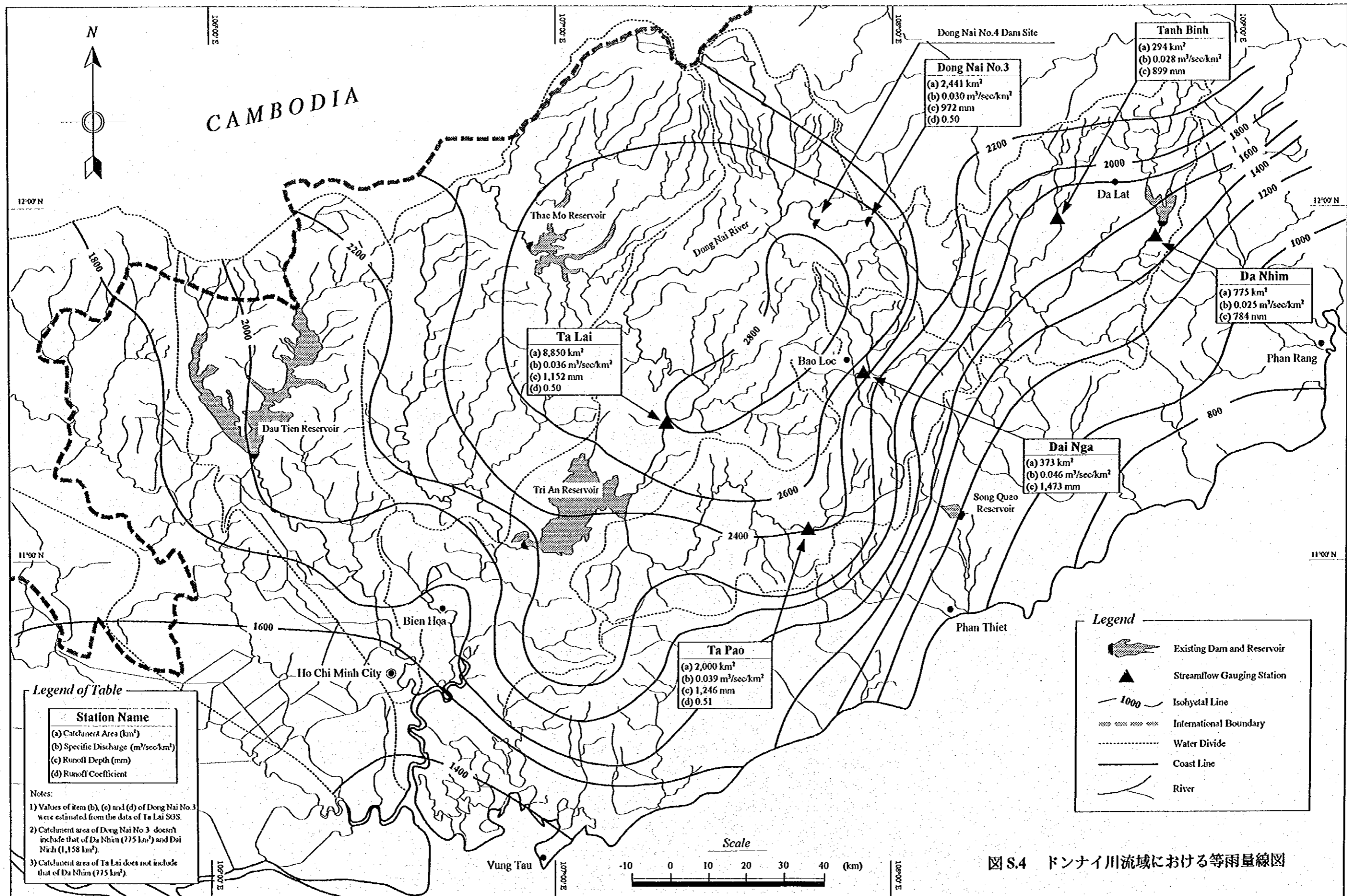


図 S.2 ヴィエトナムの行政組織構造





**Legend of Table**

Station Name
(a) Catchment Area (km <sup>2</sup> )
(b) Specific Discharge (m <sup>3</sup> /sec/km <sup>2</sup> )
(c) Runoff Depth (mm)
(d) Runoff Coefficient

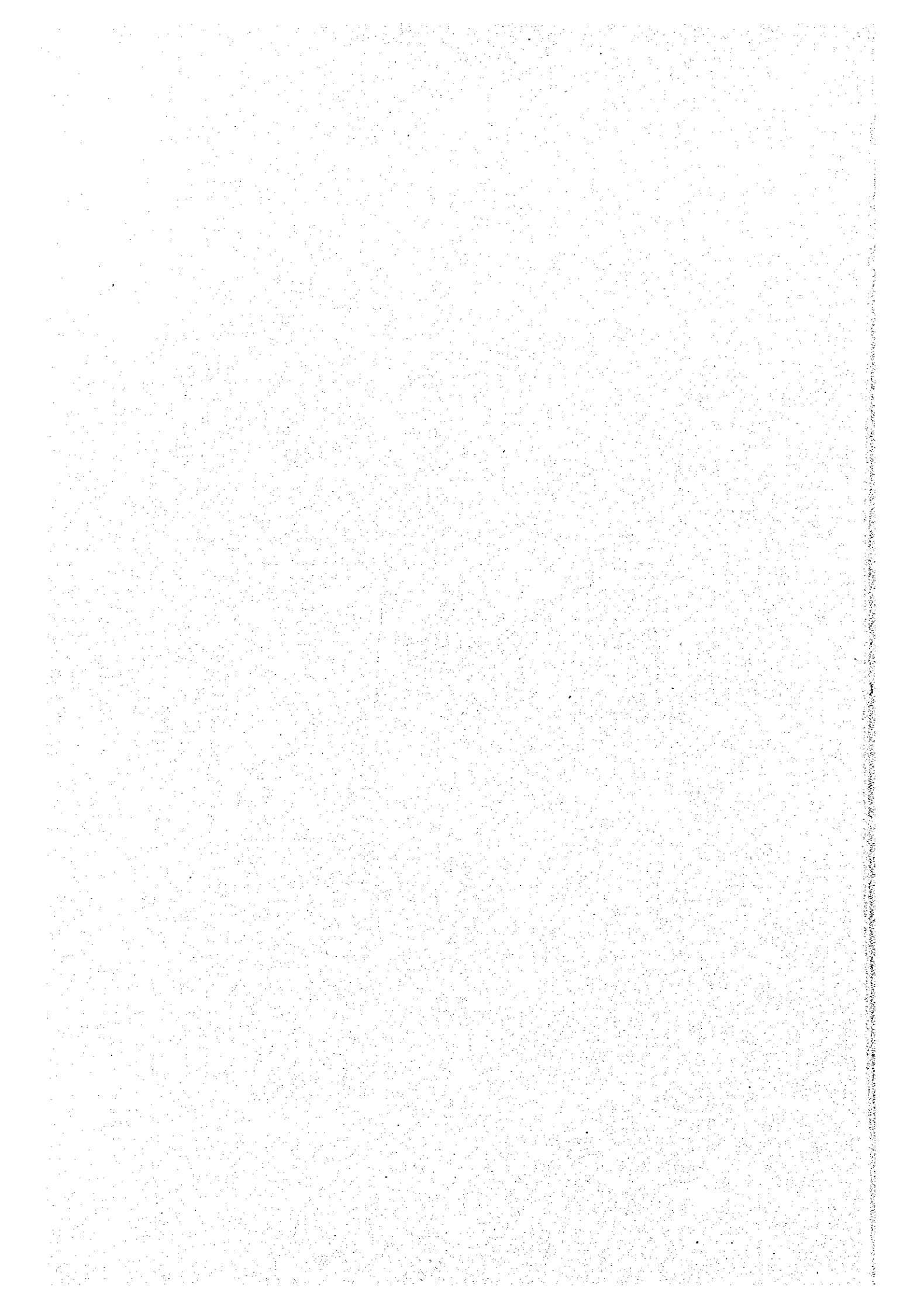
Notes:

- 1) Values of item (b), (c) and (d) of Dong Nai No. 3 were estimated from the data of Ta Lai SGS.
- 2) Catchment area of Dong Nai No. 3 doesn't include that of Da Nhim (775 km<sup>2</sup>) and Dai Ngh (1,158 km<sup>2</sup>).
- 3) Catchment area of Ta Lai does not include that of Da Nhim (775 km<sup>2</sup>).

**Legend**

- Existing Dam and Reservoir
- Streamflow Gauging Station
- Isohyetal Line
- International Boundary
- Water Divide
- Coast Line
- River

図 S.4 ドンナイ川流域における等雨量線図



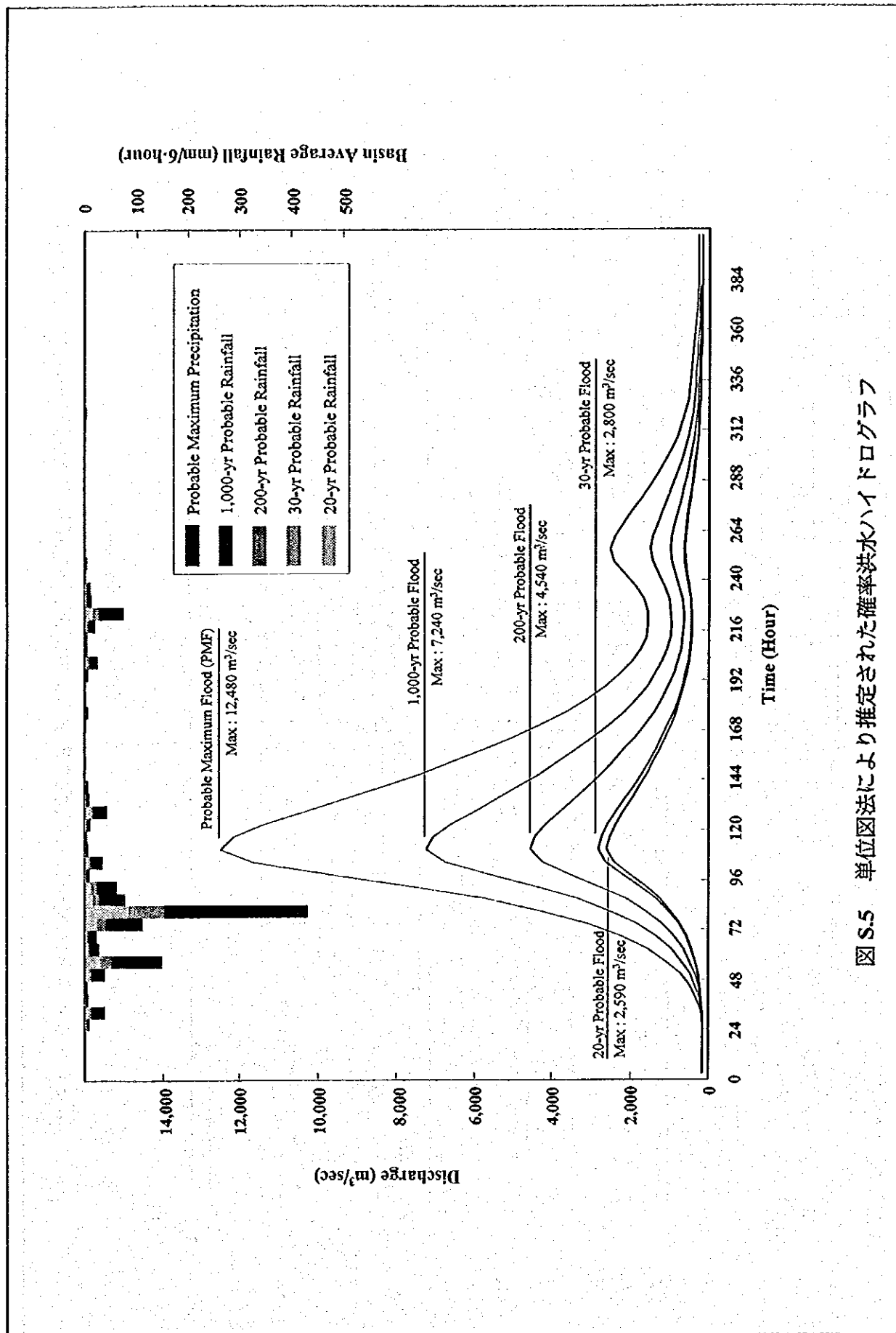


図 S.5 単位図法により推定された確率洪水ハイドログラフ

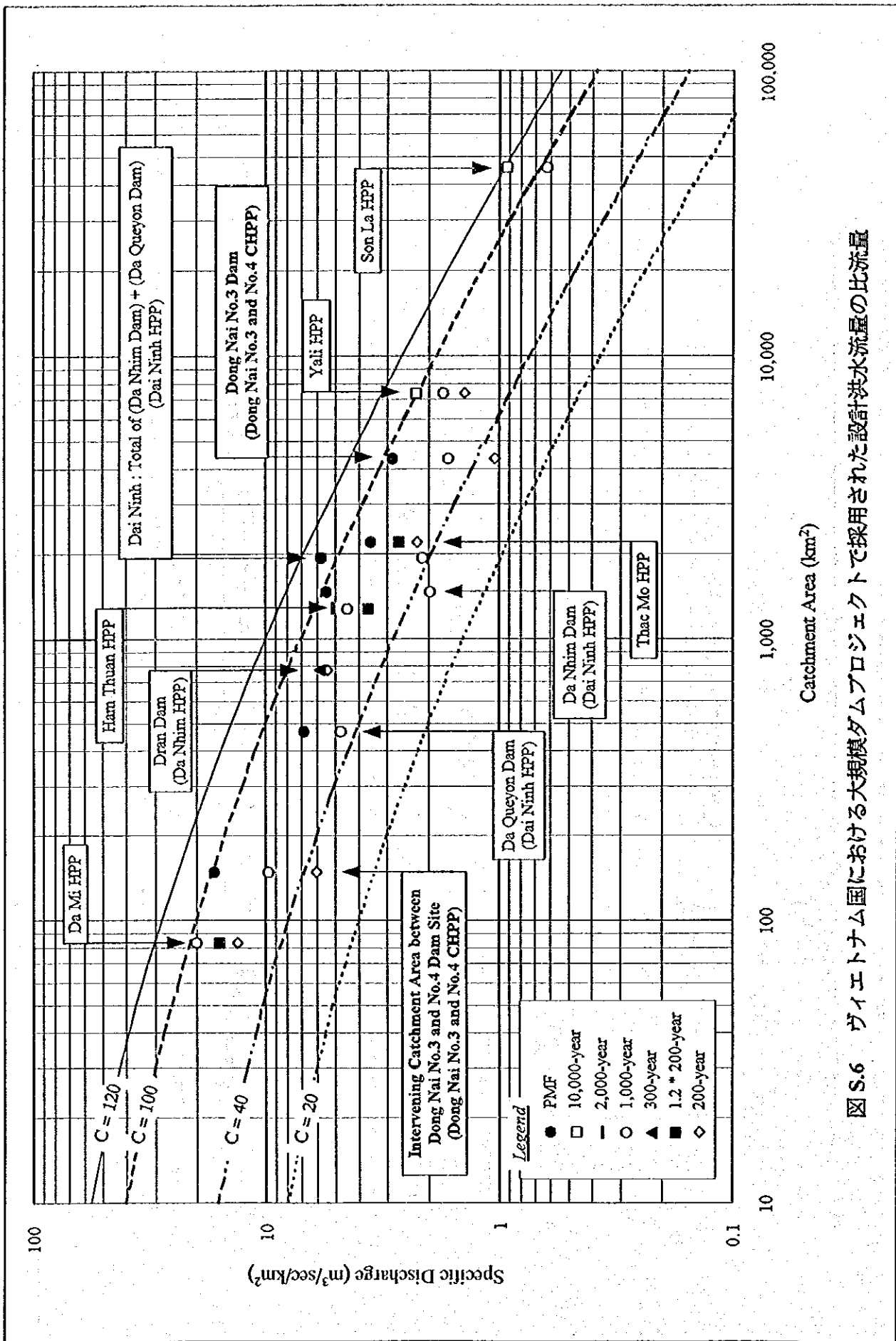


図 S.6 ヴィエトナム国における大規模ダムプロジェクトで採用された設計洪水流量の比流量

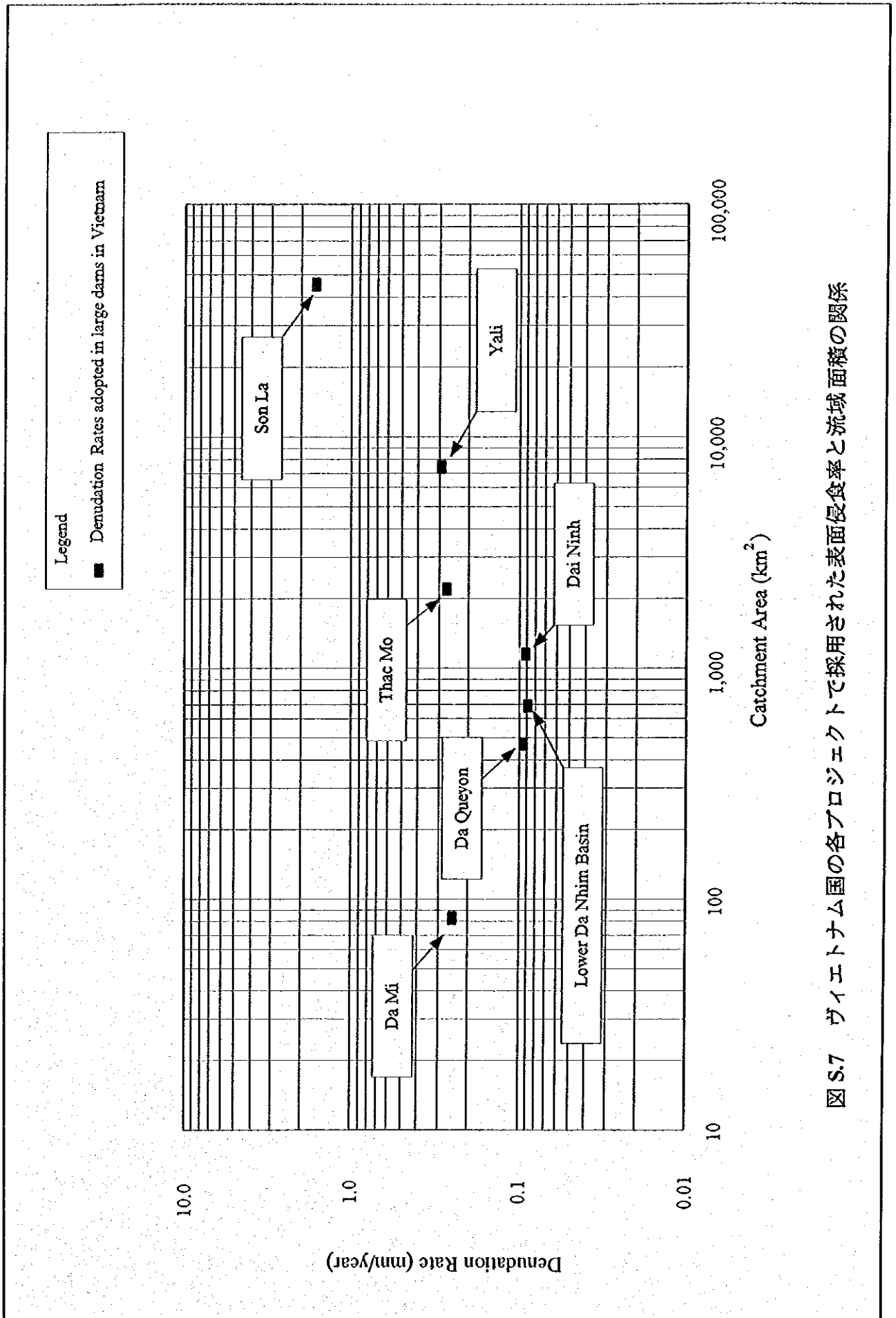
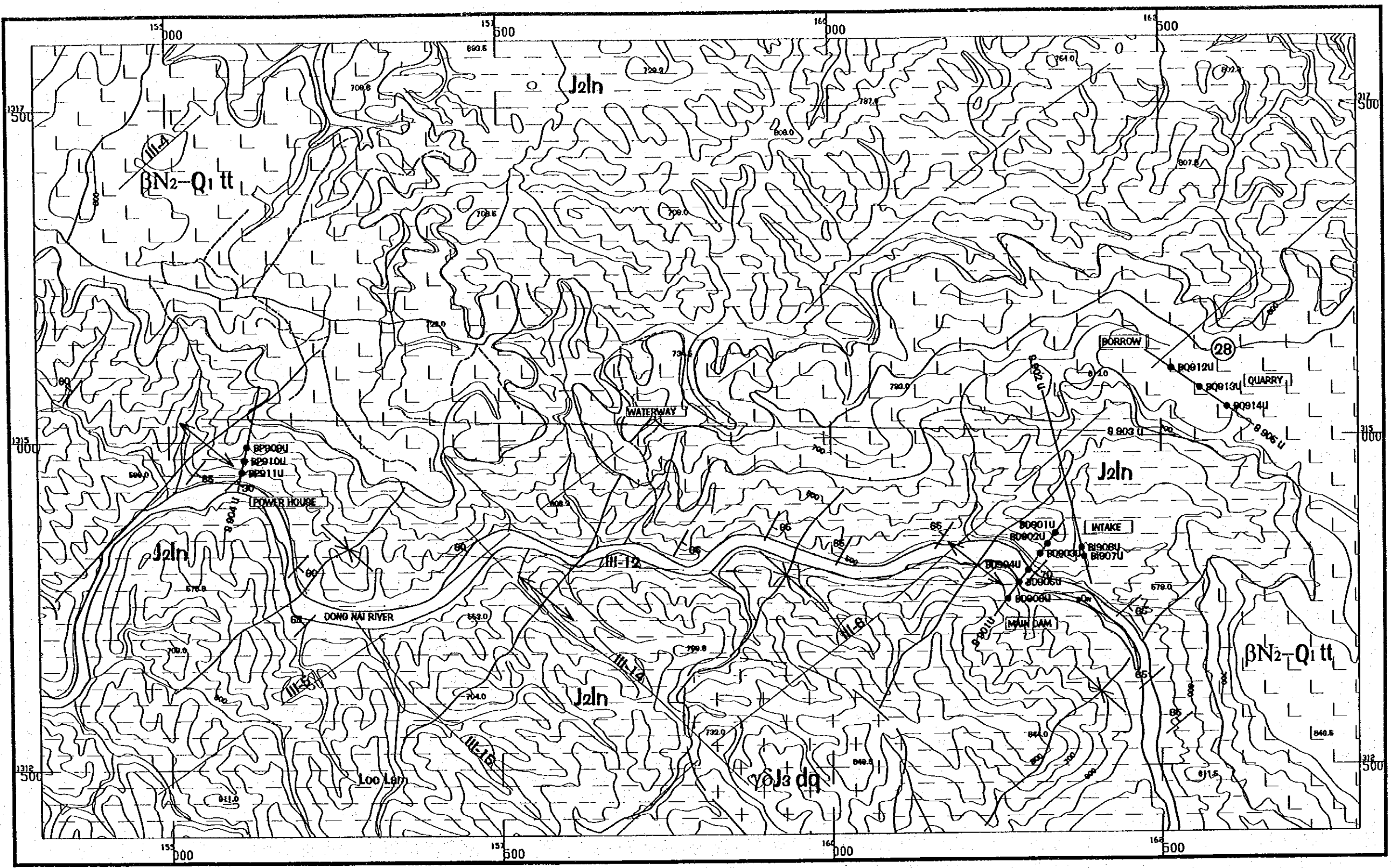


図 S.7 ヴィエトナム国の各プロジェクトで採用された表面侵食率と流域面積の関係





**LEGEND**

Symbol	Rock Unit (Member)	Corresponding formation in geologic map	Age
[Symbol: Dotted pattern]	Reverted Deposit (Q <sub>2</sub> )	Recent	Quaternary
[Symbol: Wavy line]	(Unconformity)		
[Symbol: Stippled pattern]	(BN <sub>2</sub> -Q <sub>1</sub> )	Tuo trung formation	Cenozoic Miocene (Neogene)
[Symbol: Wavy line]	(Unconformity)		
[Symbol: Dotted pattern]	Horblerite granodiorite (T <sub>2</sub> 310)	Dinh Quan formation	Upper Jurassic
[Symbol: Stippled pattern]	Sandstone, siltstone shale, hornfels (J <sub>2</sub> ln)	Lengs formation	Middle Jurassic

[Symbol: Dashed line]	Boundary of strata
[Symbol: Solid line]	Fault
[Symbol: Line with dots]	Strike and dip of fault
[Symbol: Line with dots]	Strike and dip of sedimentary rock
[Symbol: Line with dots]	Synclinal axis
[Symbol: Line with dots]	Anticlinal axis
[Symbol: Line with dots]	Seismic prospecting line
[Symbol: Circle with 'U']	B/B Bore hole
[Symbol: Circle with '28']	National road
[Symbol: Dashed line]	Path

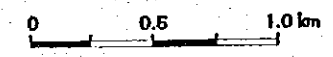
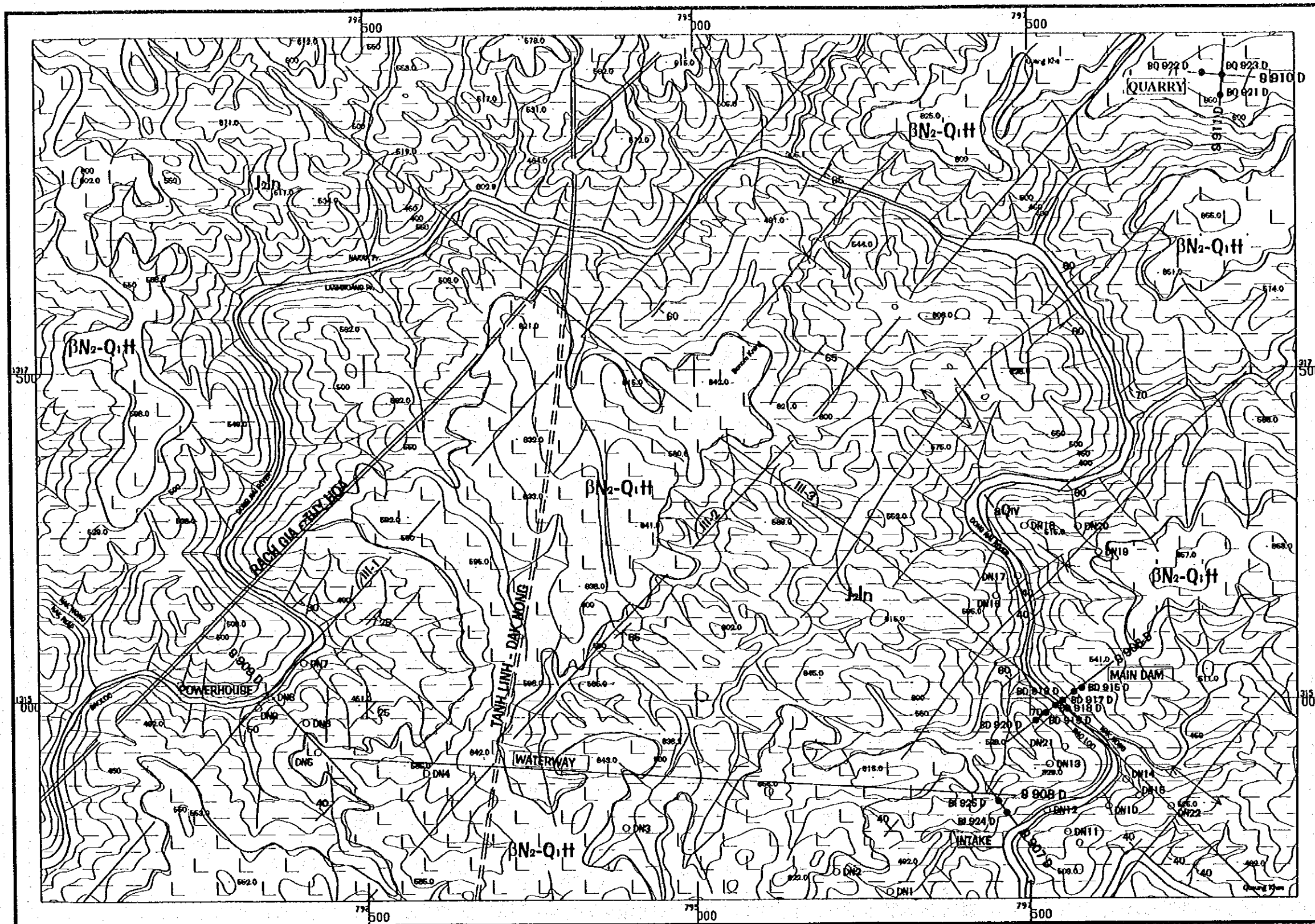


図 S.8 ドンナイ第3計画地域地質図



**LEGEND**

Symbol	Rock Unit (Member)	Corresponding formation in regional geologic map	Age
	Riverbed Deposit (Q1n)		Quaternary
	Basalt Lava (BN2-Q1H)	Tuo Trung formation	Pli-Pleistocene (Holocene)
	Sandstone, siltstone, shale, hornfels (J2n)	Large formation	Middle Jurassic

- Boundary of strata
- Fault
- Strike and dip of fault
- Strike and dip of sedimentary rock
- Synclinal axis
- Anticlinal axis
- Selenic prospecting line (F/B)
- Bore hole (Pre-F/B)
- Bore hole (F/B)

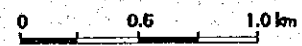


図 S.9 ドンナイ第 4 計画地域地質図

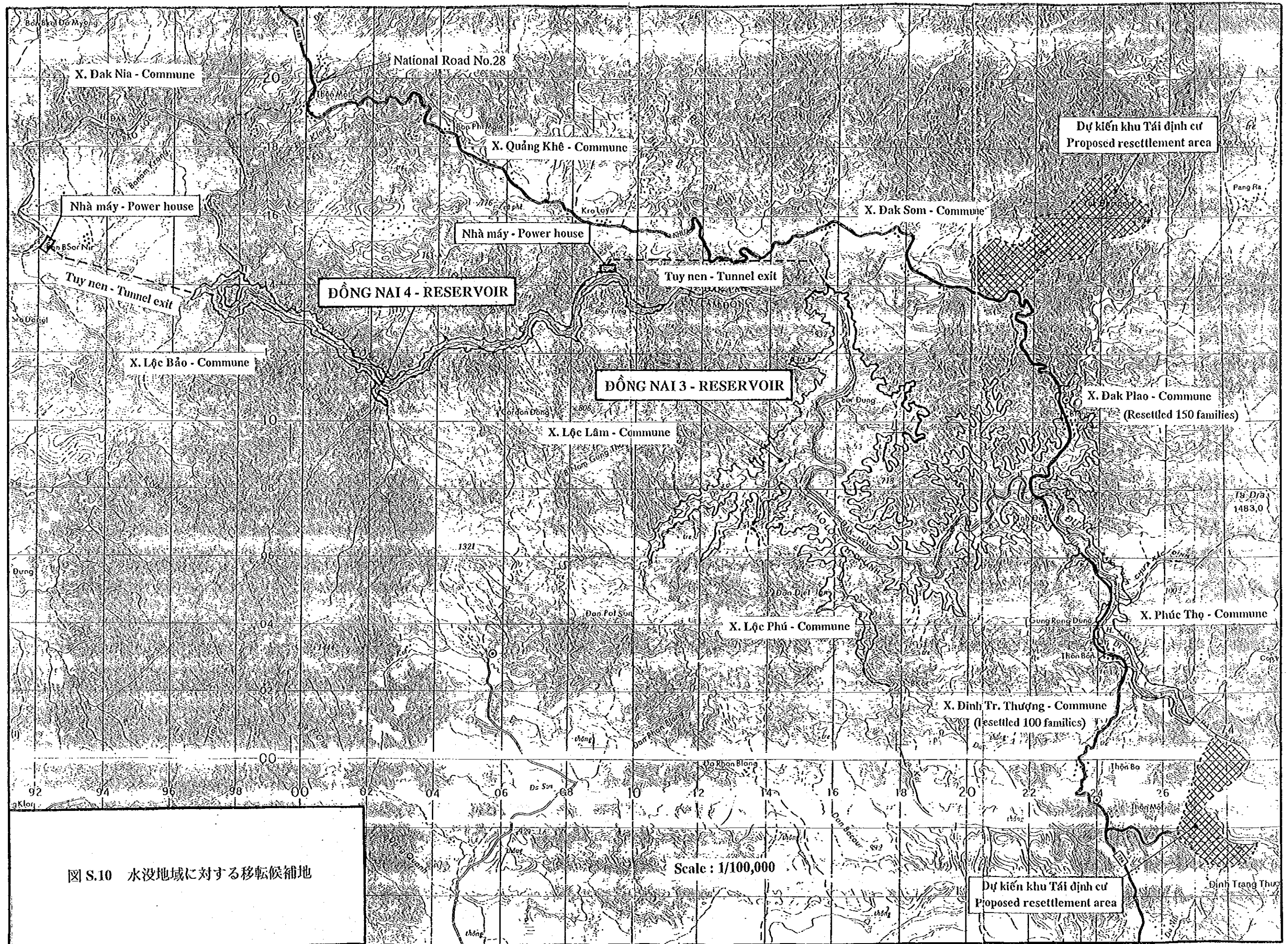
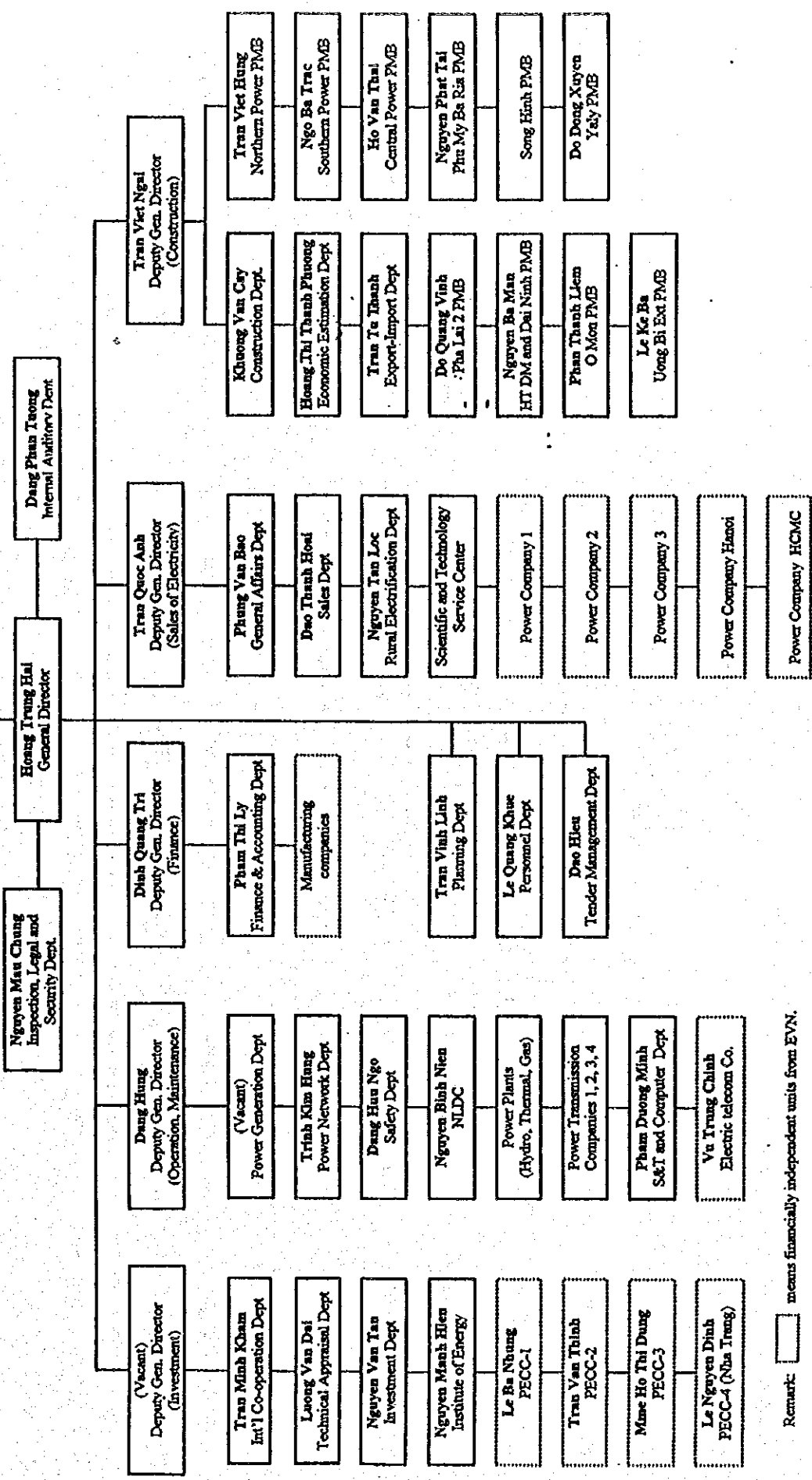


図 S.10 水没地域に対する移転候補地



- Management Board**
1. Dao Van Hung
  2. Tran Van Dooc
  3. Phan Le Thanh
  4. Hoang Trung Hai
  5. Nguyen Man Chung



Remark:  means financially independent units from EVN.

☒ S.11 EVN 組織圖

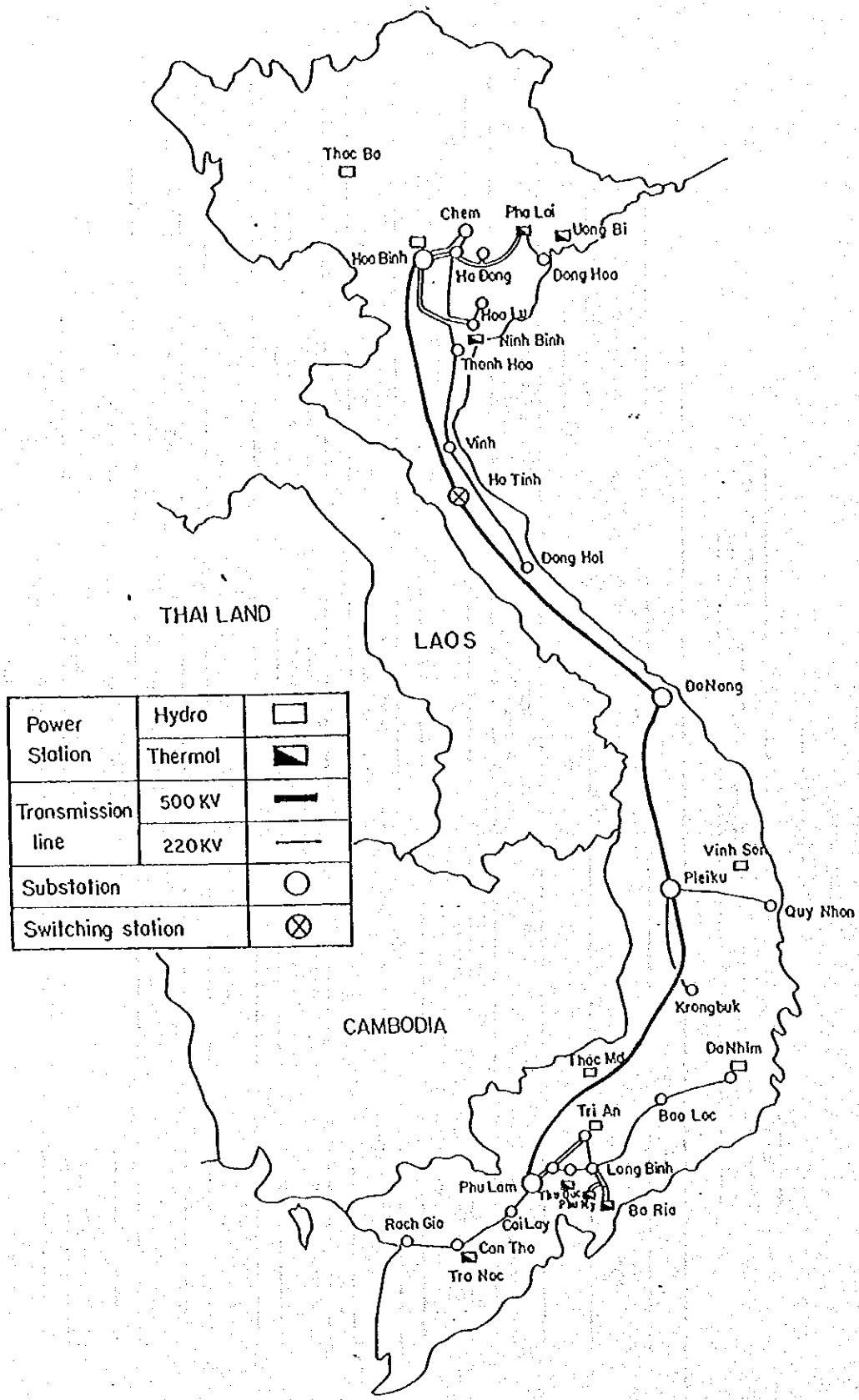


图 S.12 500 kV, 220 kV 系統地理的關係圖

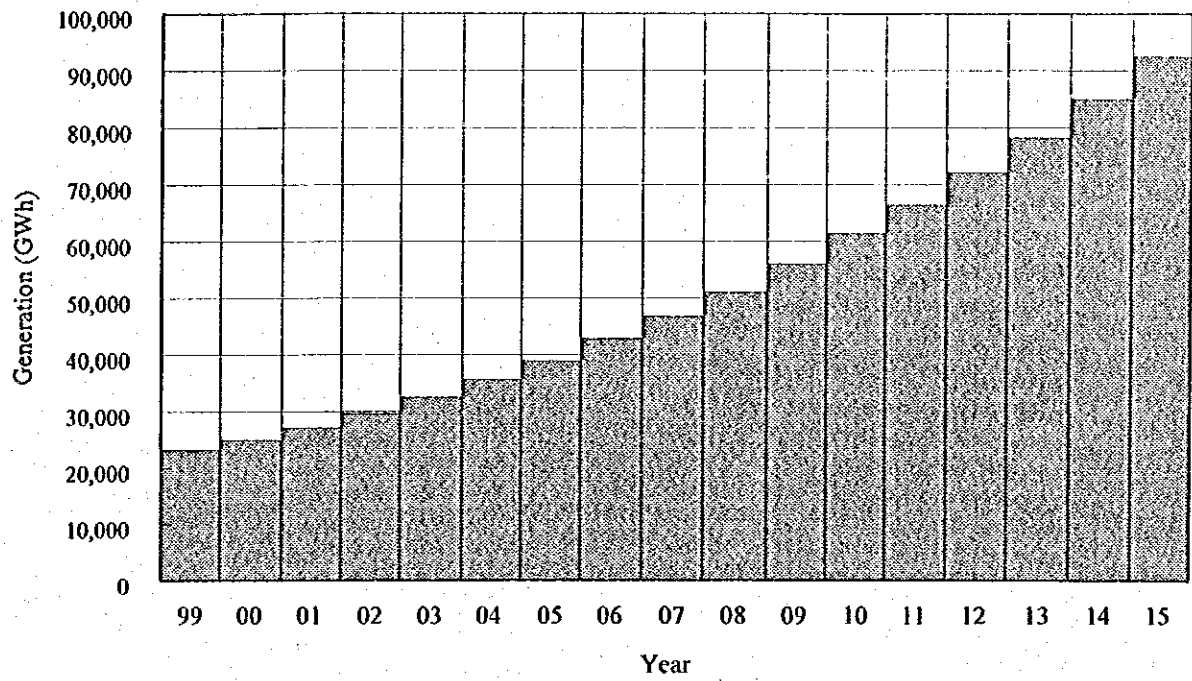


図 S.13 JICA調査団による発電電力量予測

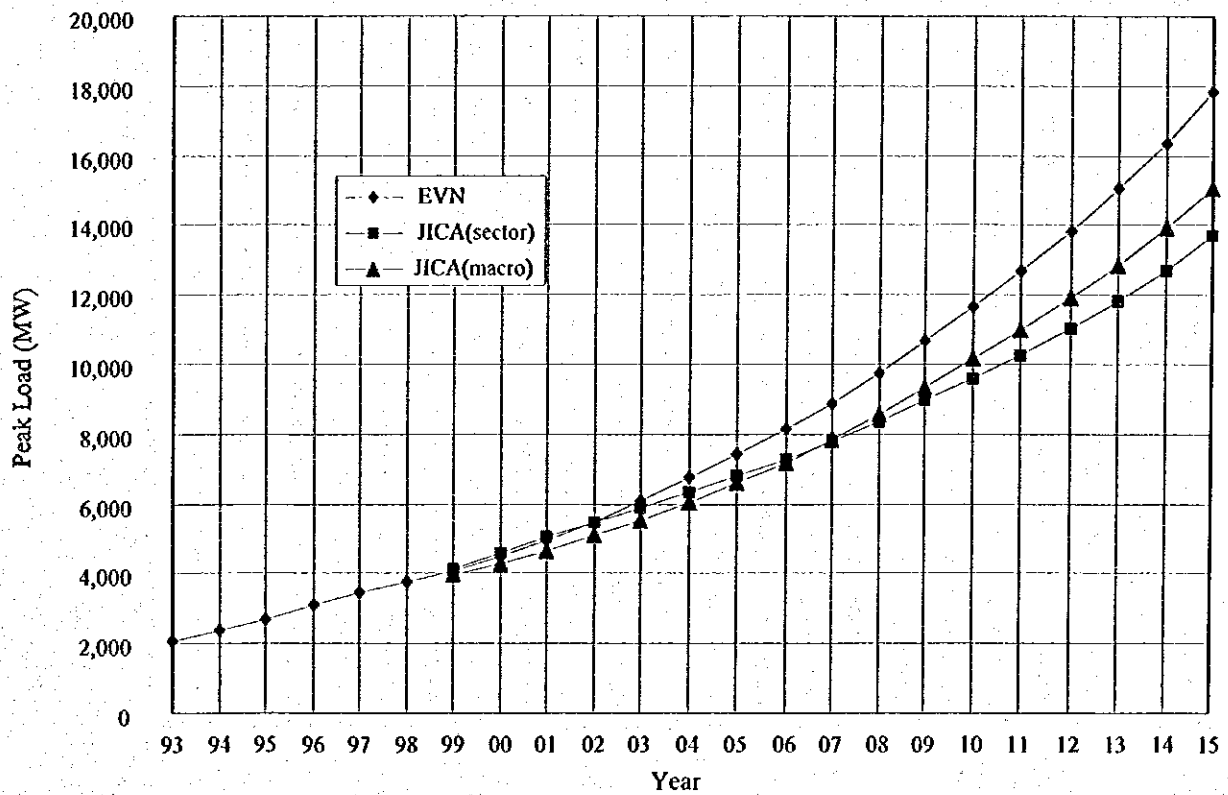


図 S.14 JICA調査団による最大電力予測

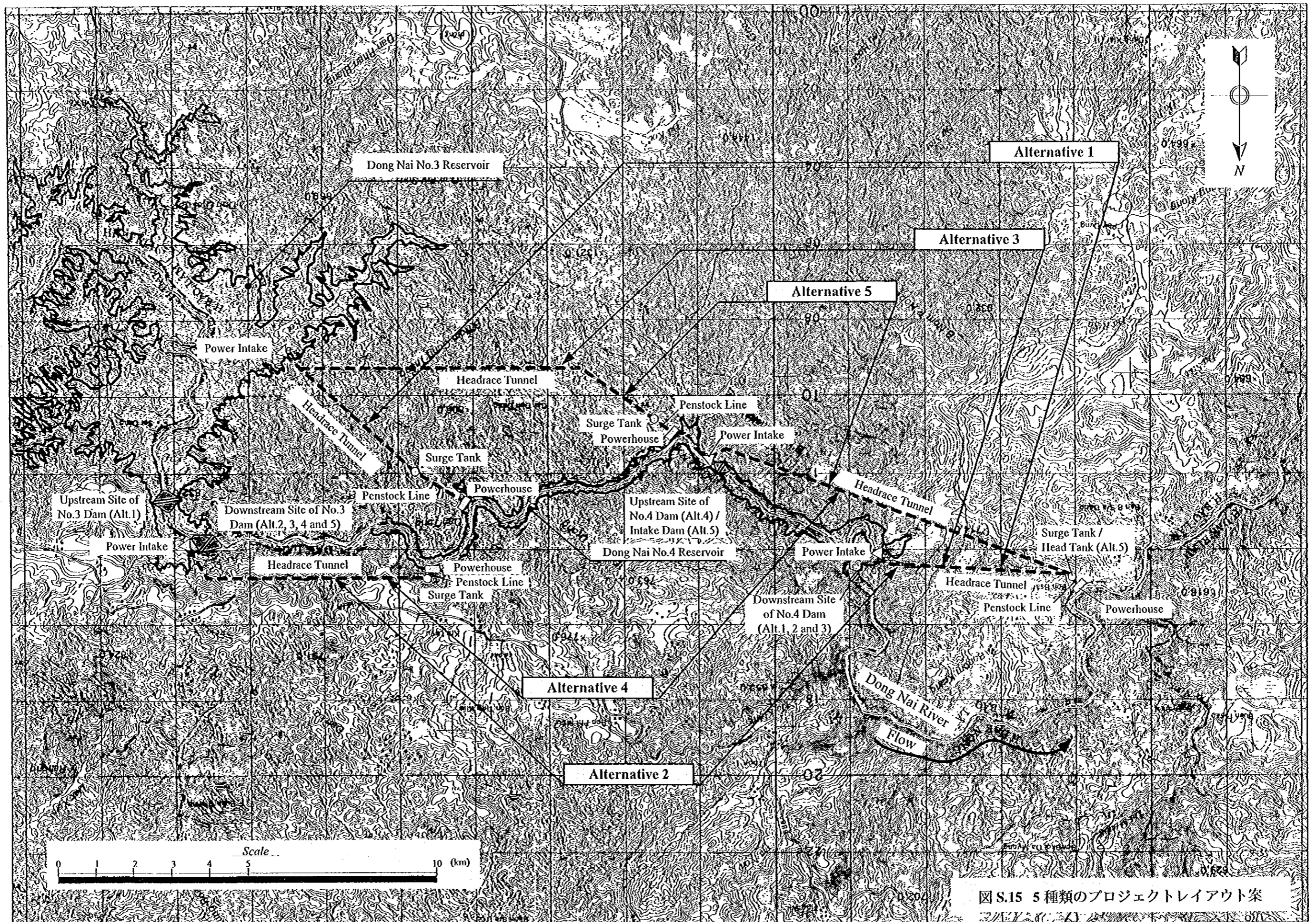
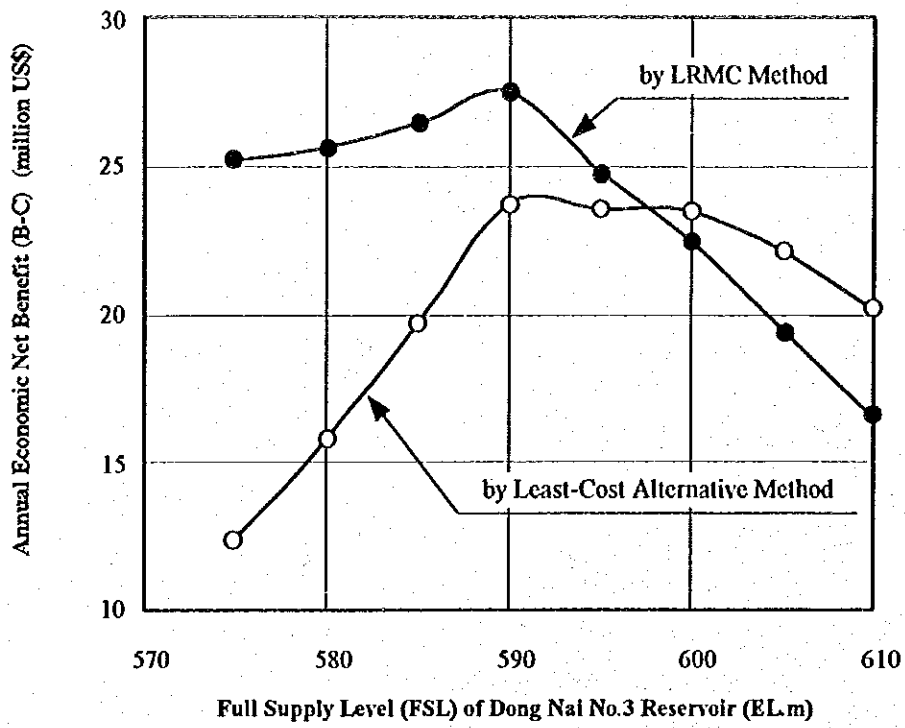
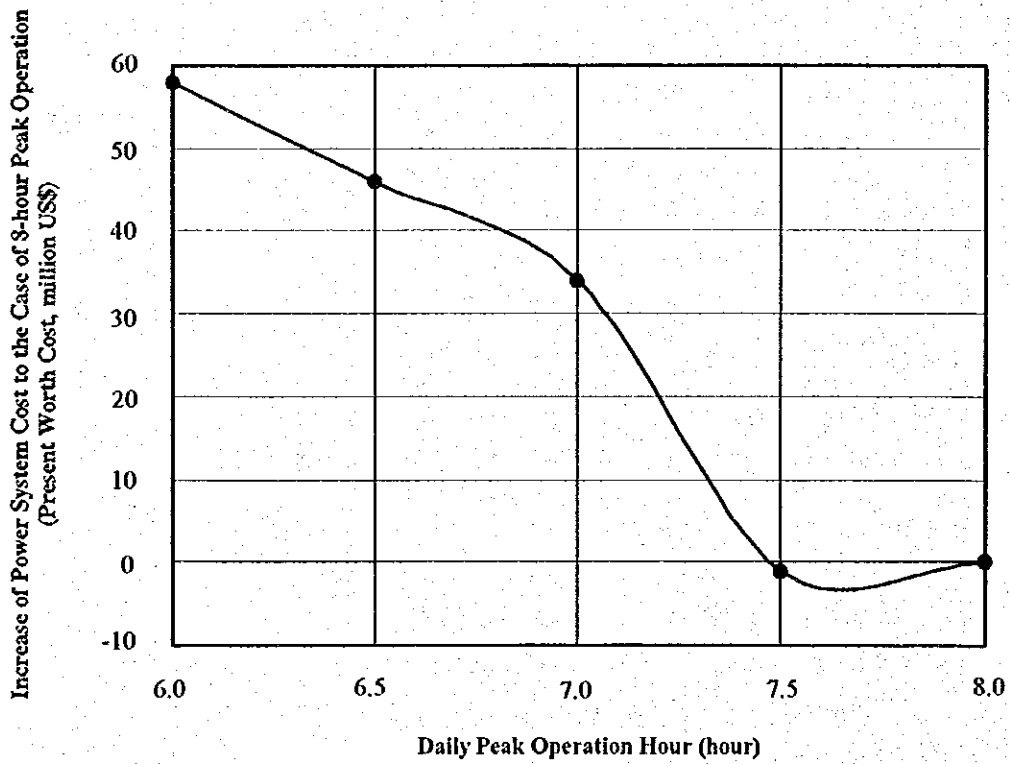


図 S.15 5 種類のプロジェクトレイアウト案





**Optimization of Full Supply Level (FSL) of Dong Nai No.3 Reservoir**



**Optimization of Daily Minimum Operation Hour**

**図 S.16 開発規模の最適化検討結果**

