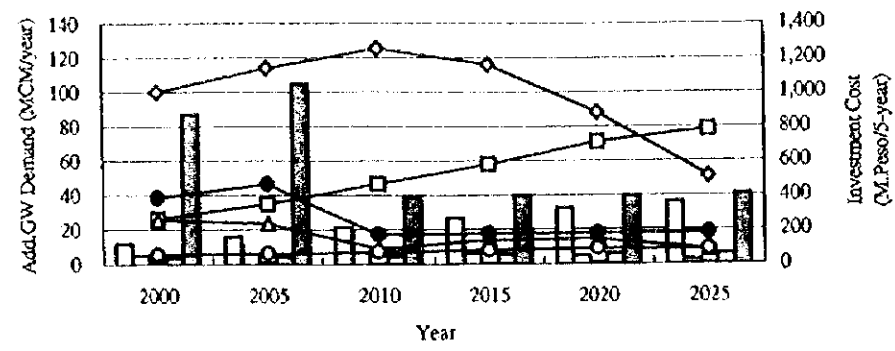


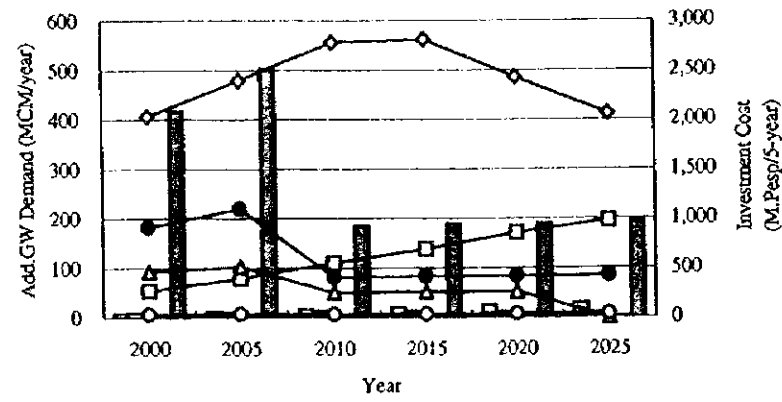
Water Supply Category	Diameter		Depth or Length	
	Well Casing mm (in.) - size A	Borehole mm (in.) - size B	Well String m - size C	Well Screen by Depth - size D
Municipal Level-III	250 (10")	444.50 (17"-1/2)	103.3 to 218.6	30%
Municipal Level-II	150 (6")	311.15 (12"-1/4)	53.8 to 101.1	25%
Municipal Level-I	100 (4")	269.88 (10"-5/8)	35.9 to 67.4	20%
Private L-I	100 (4")	200.03 (7"-7/8)	17.9 to 33.7	15%
Commercial	150 (6")	269.88 (10"-5/8)	16.5 to 42.5	25%
Industrial	250 (10")	444.50 (17"-1/2)	99.1 to 255.2	35%
Irrigation	200 (8")	374.65 (14"-3/4)	16.5 to 42.5	40%

Remarks; Municipal deepwell should be equipped with sanitary materials sealed & be designed to fix confined aquifer for domestic water use. Irrigation deepwell shall be utilized (pumped) by seasonal requirement. Various pump will be required for each type of deepwell such as submersible, self-priming, handpump, etc.

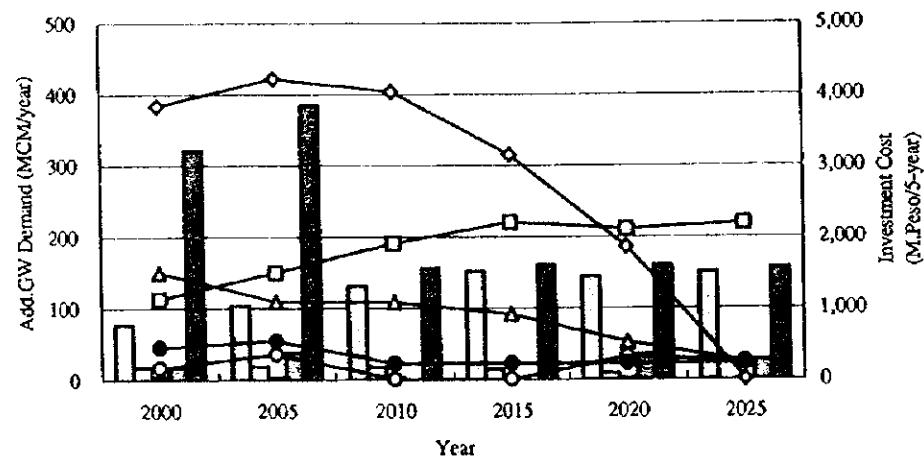
图-38 井戸標準断面



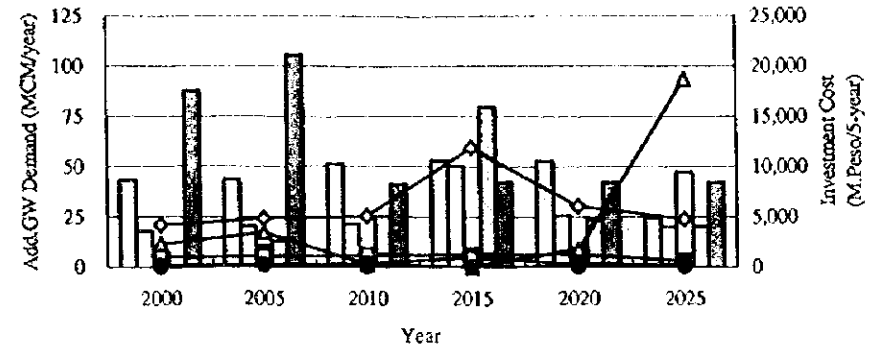
WATER RESOURCES REGION I (WRR-I)



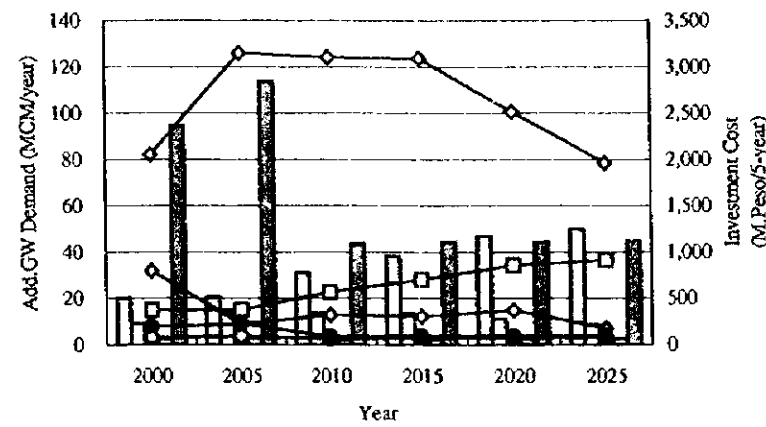
WATER RESOURCES REGION II (WRR-II)



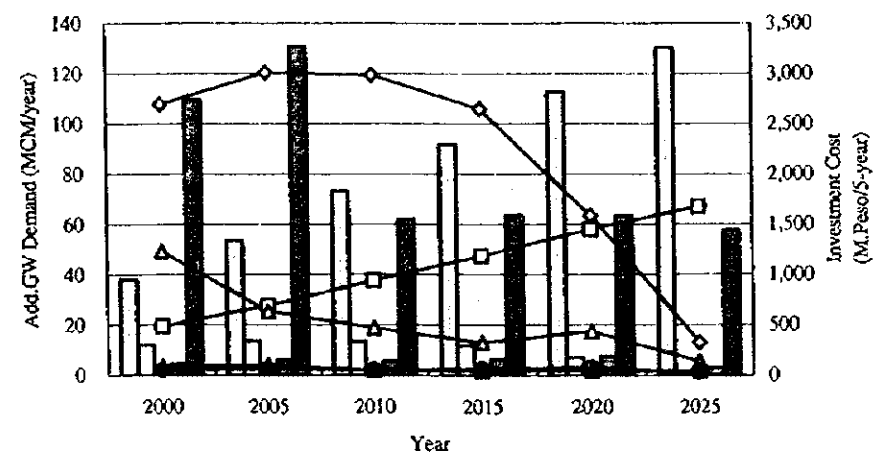
WATER RESOURCES REGION III (WRR-III)



WATER RESOURCES REGION IV (WRR-IV)



WATER RESOURCES REGION V (WRR-V)



WATER RESOURCES REGION VI (WRR-VI)

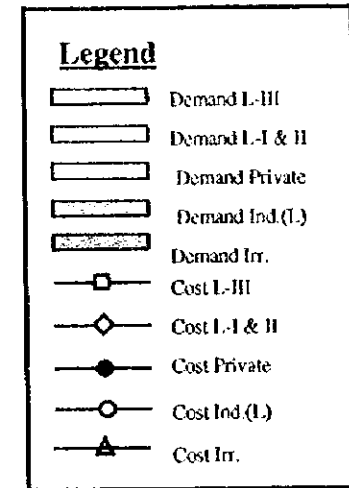
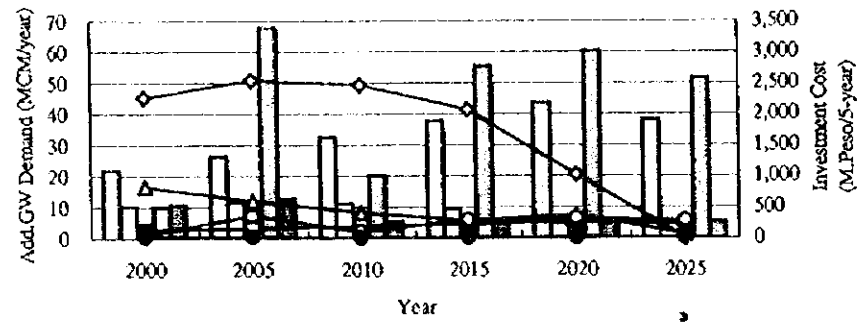
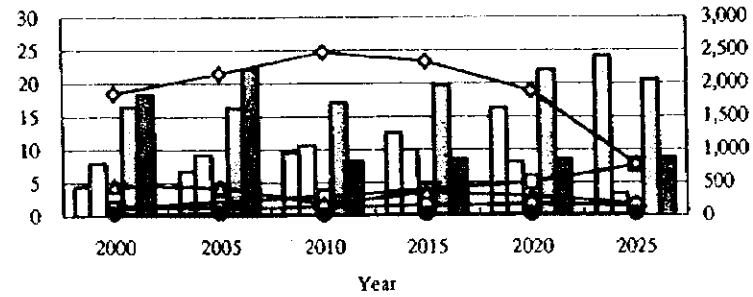


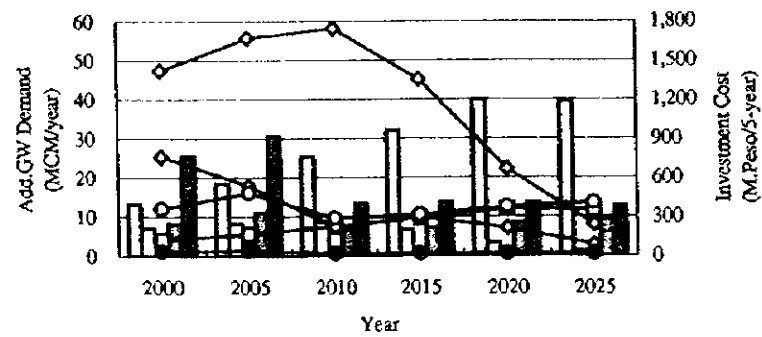
図-39 水資源毎の将来の地下水開発 (1/2)



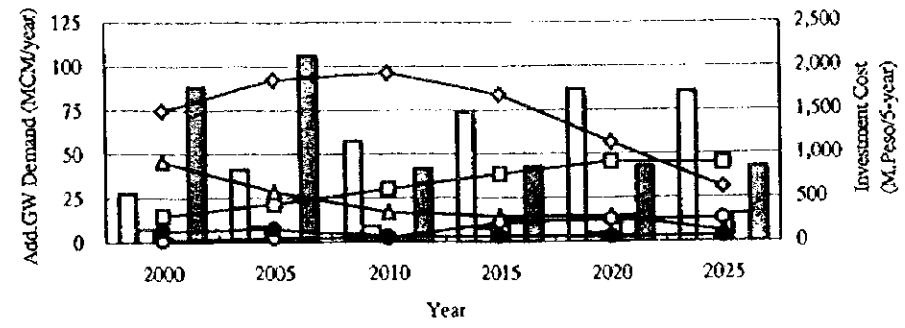
WATER RESOURCES REGION VII (WRR-VII)



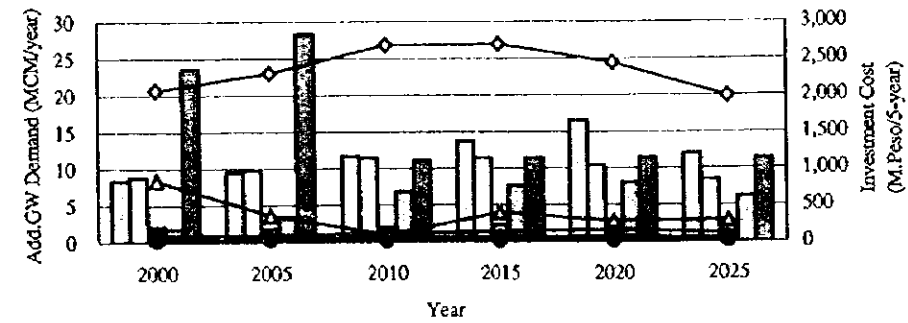
WATER RESOURCES REGION VIII (WRR-VIII)



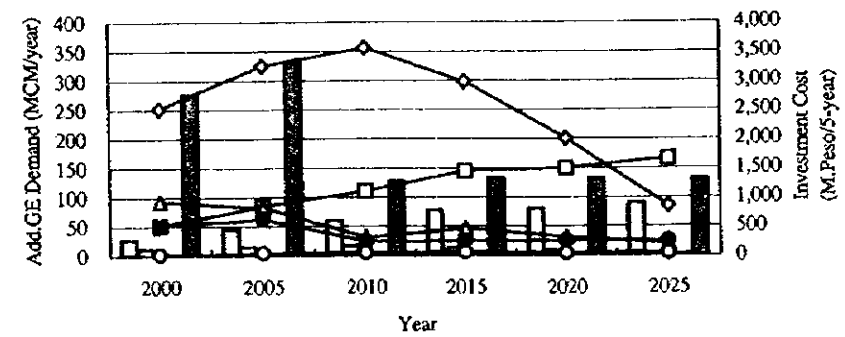
WATER RESOURCES REGION IX (WRR-IX)



WATER RESOURCES REGION X (WRR-X)



WATER RESOURCES REGION XI (WRR-XI)



WATER RESOURCES REGION XII (WRR-XII)

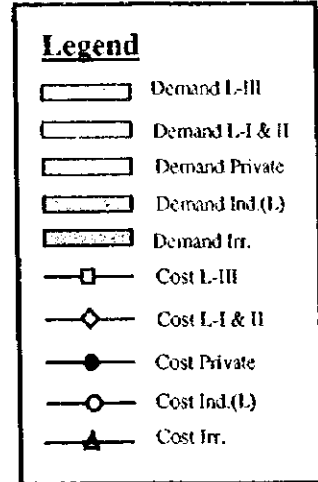


図-39 水資源区毎の将来の地下水開発 (2/2)

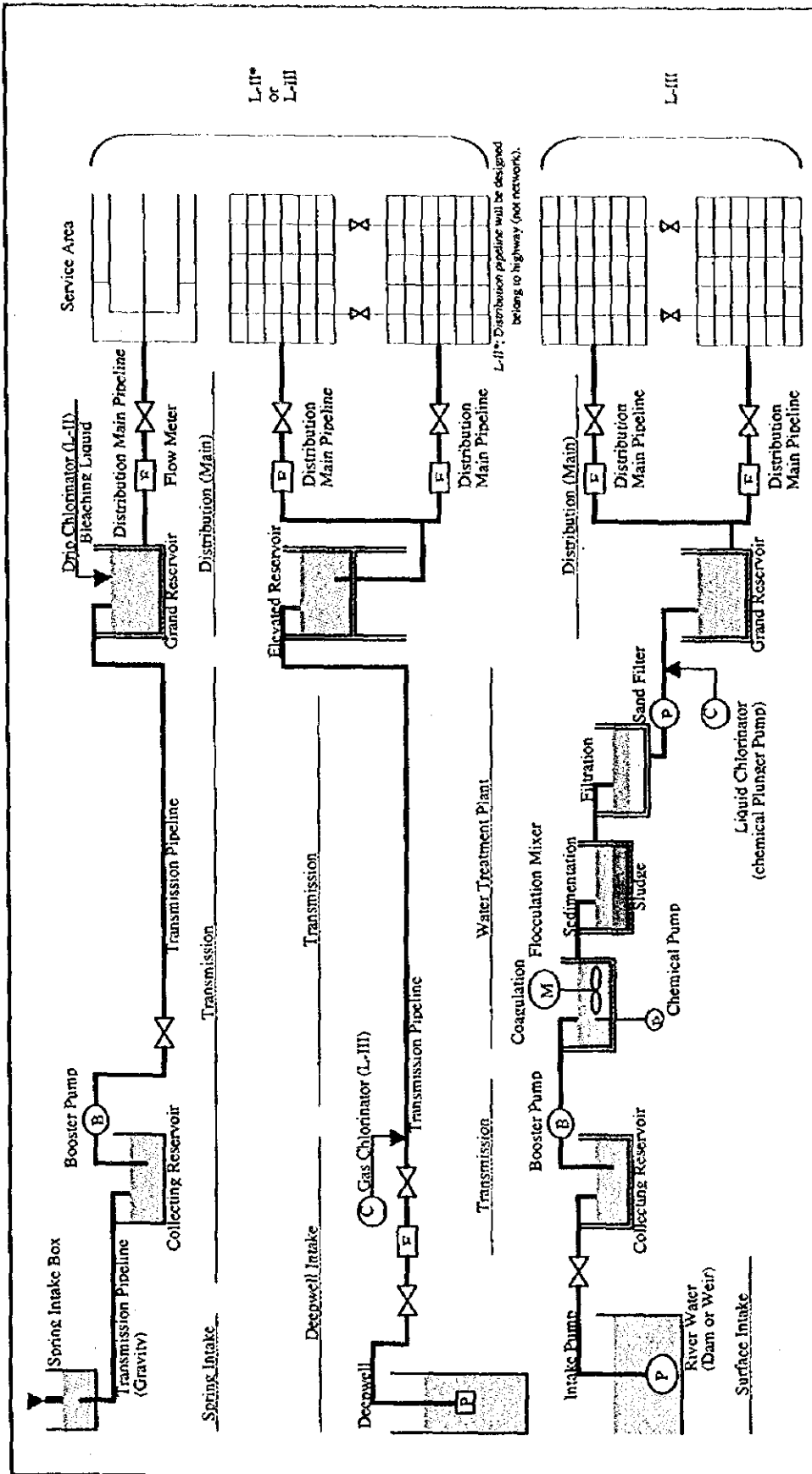


図-40 地下水開発費積算の為の標準施設図

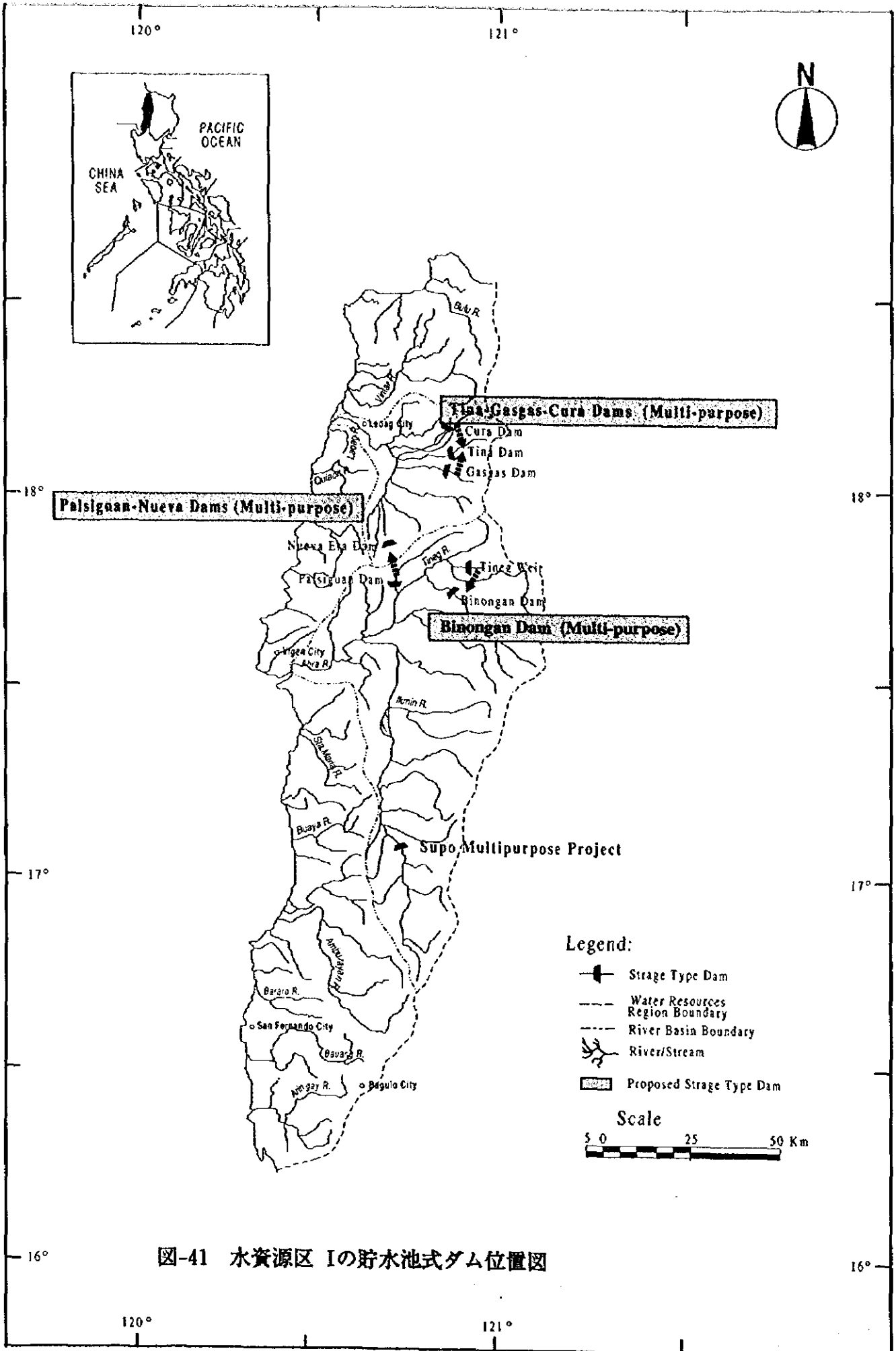
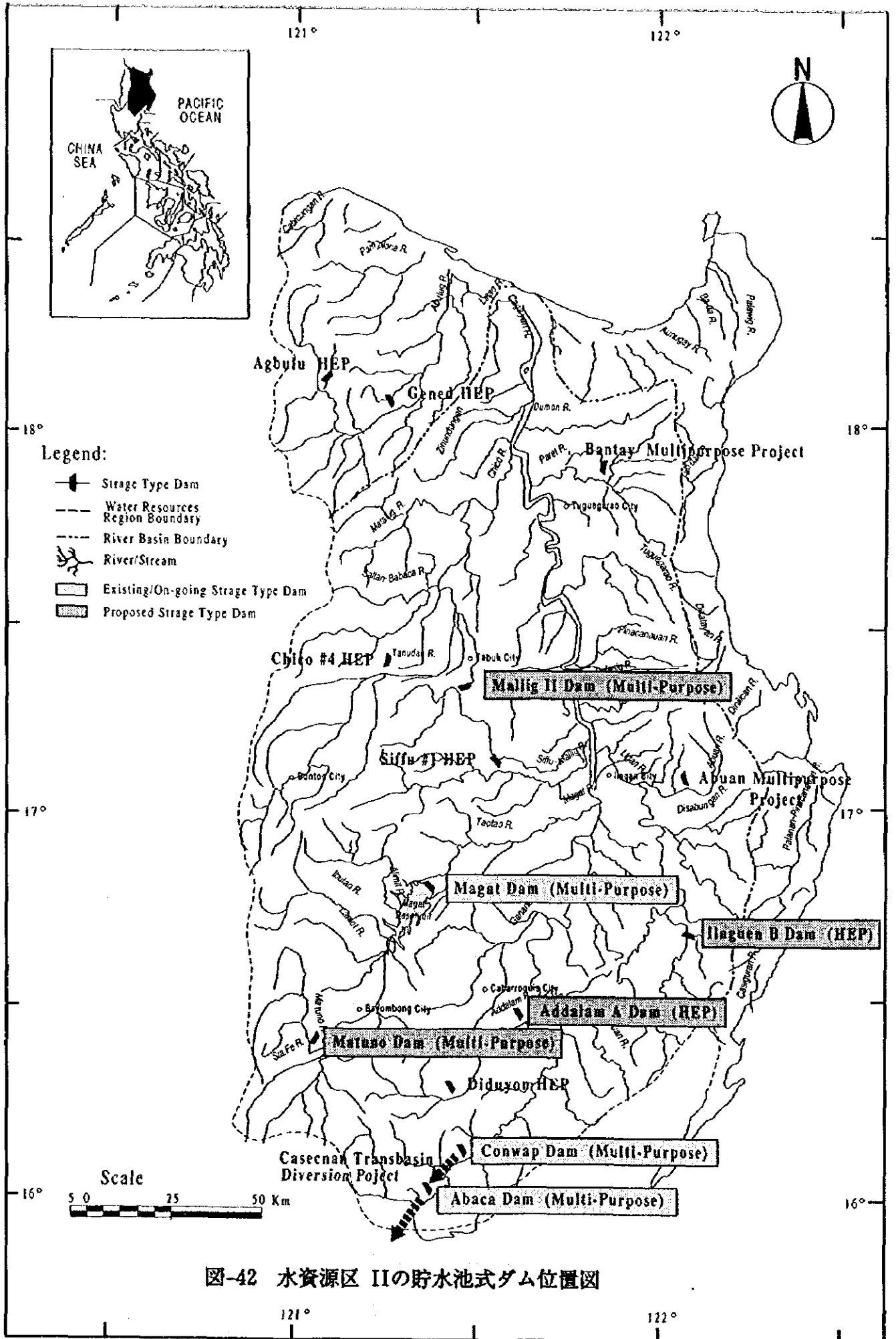


図-41 水資源区 I の貯水池式ダム位置図



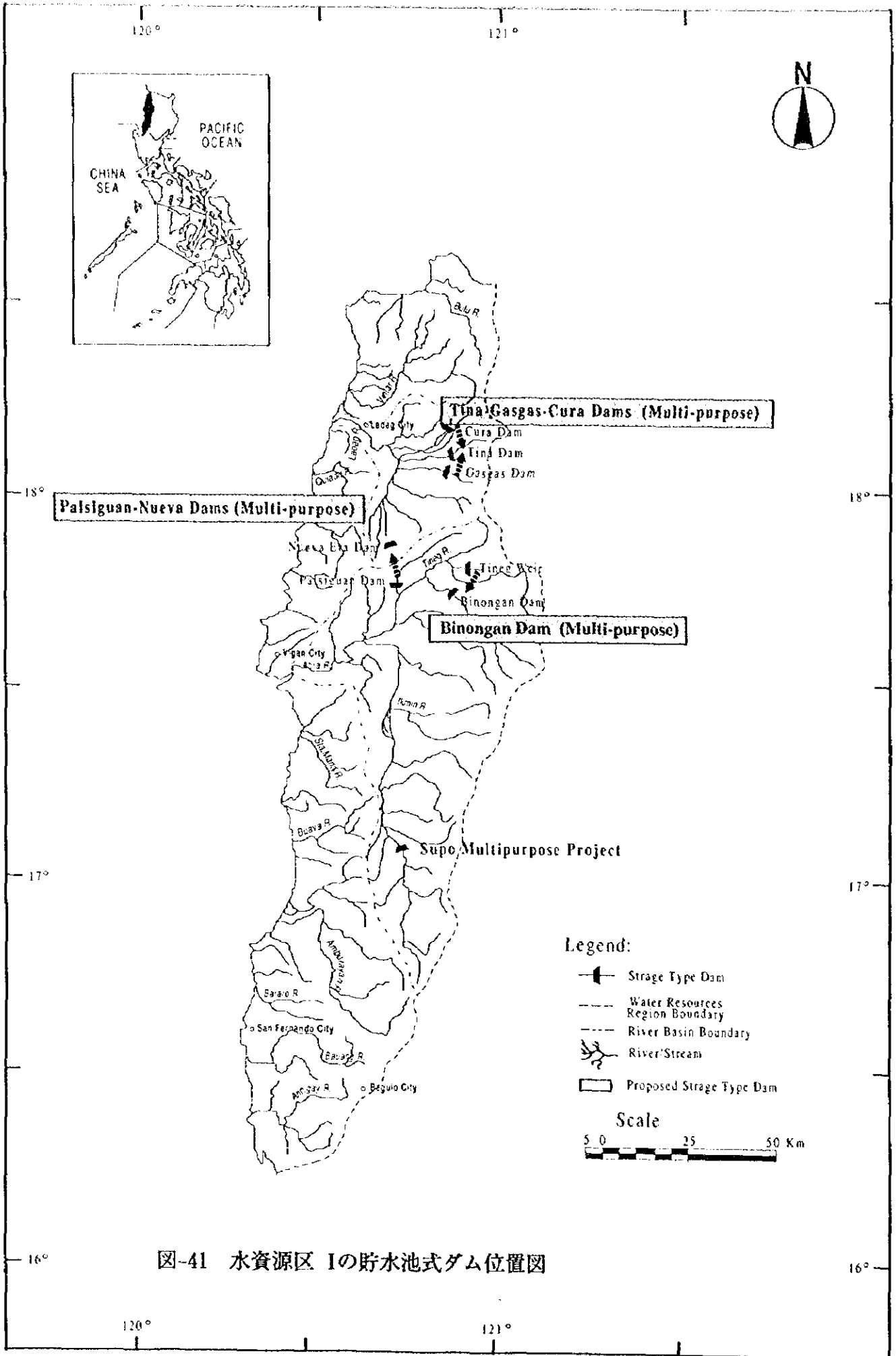


図-41 水資源区 I の貯水池式ダム位置図

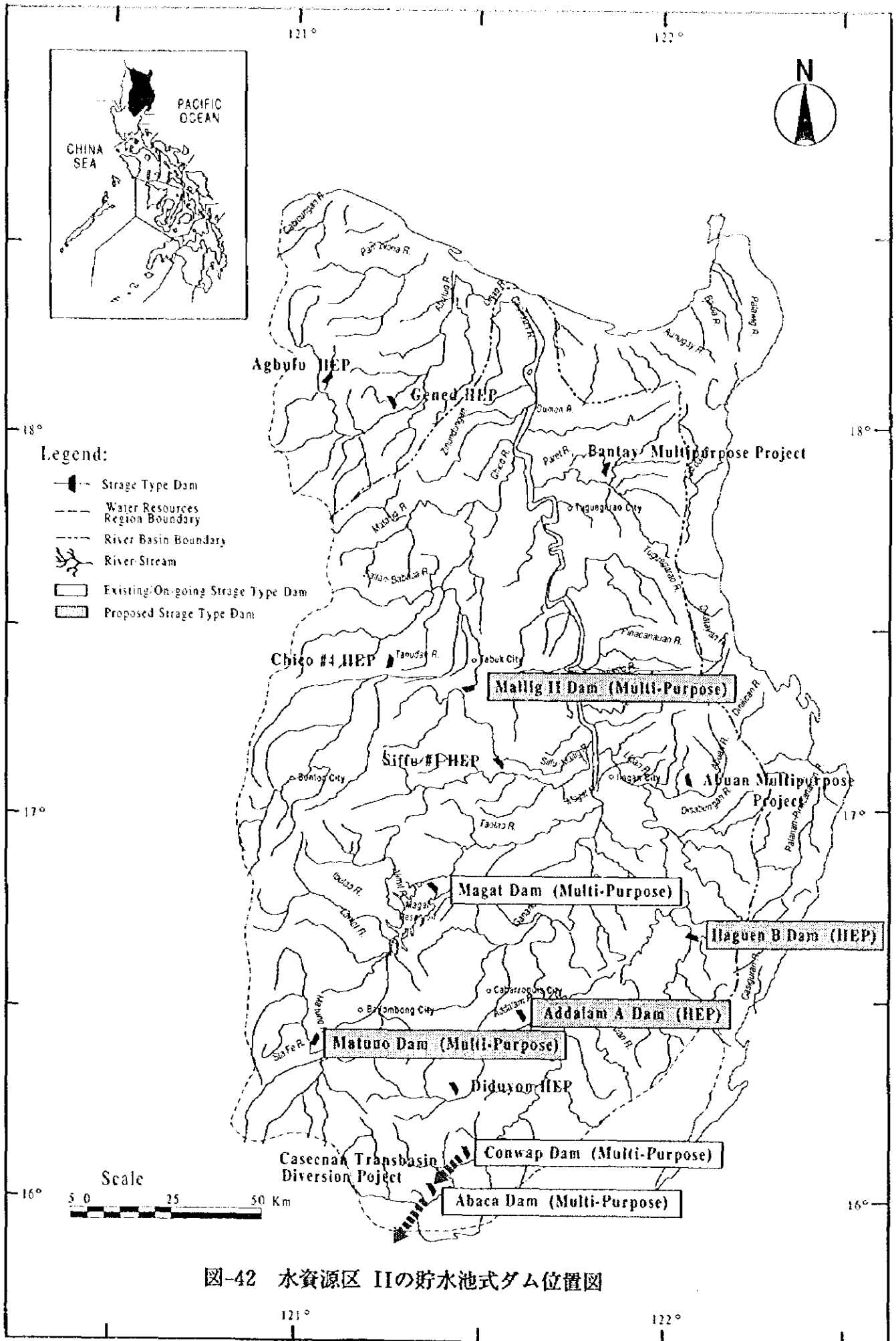
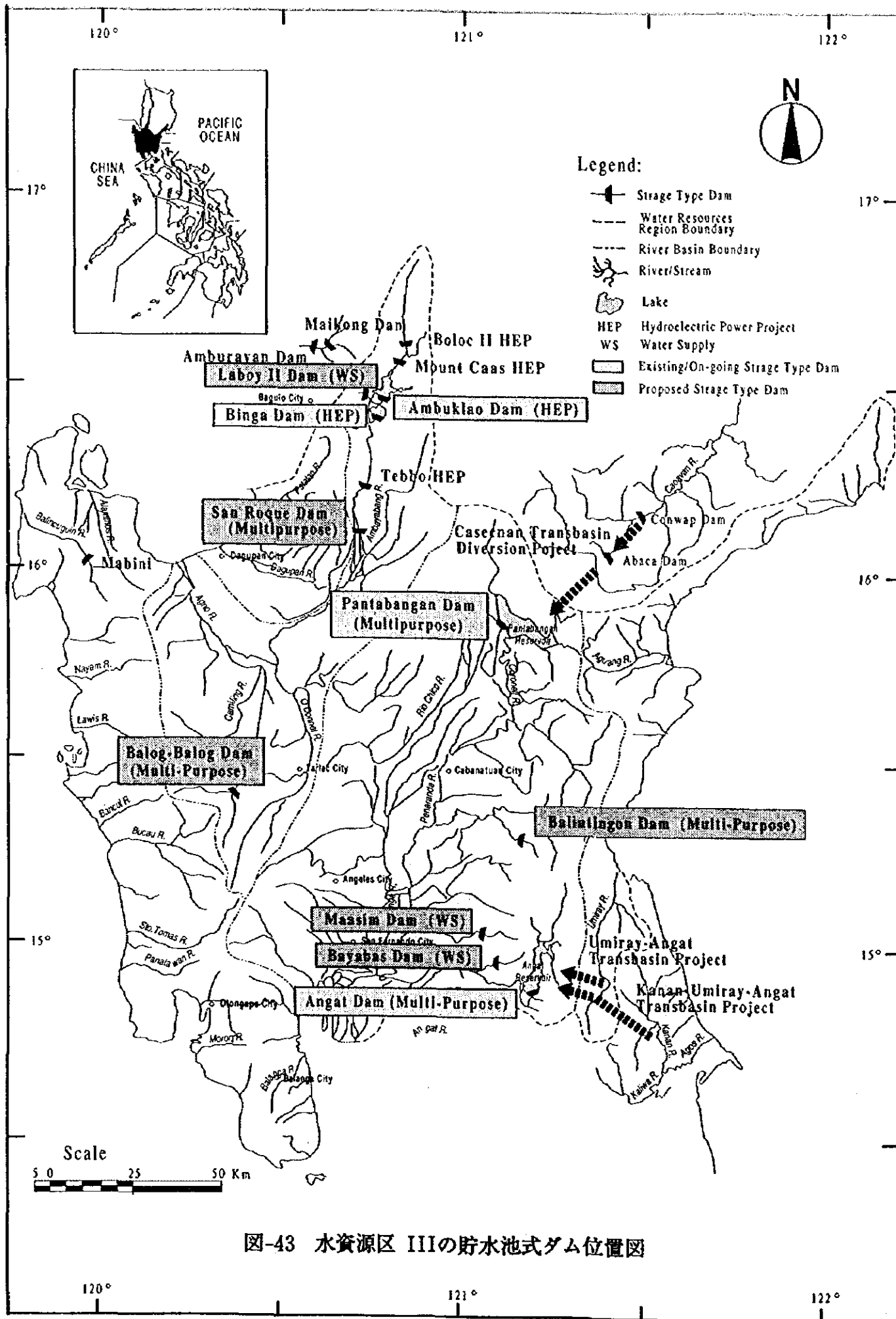
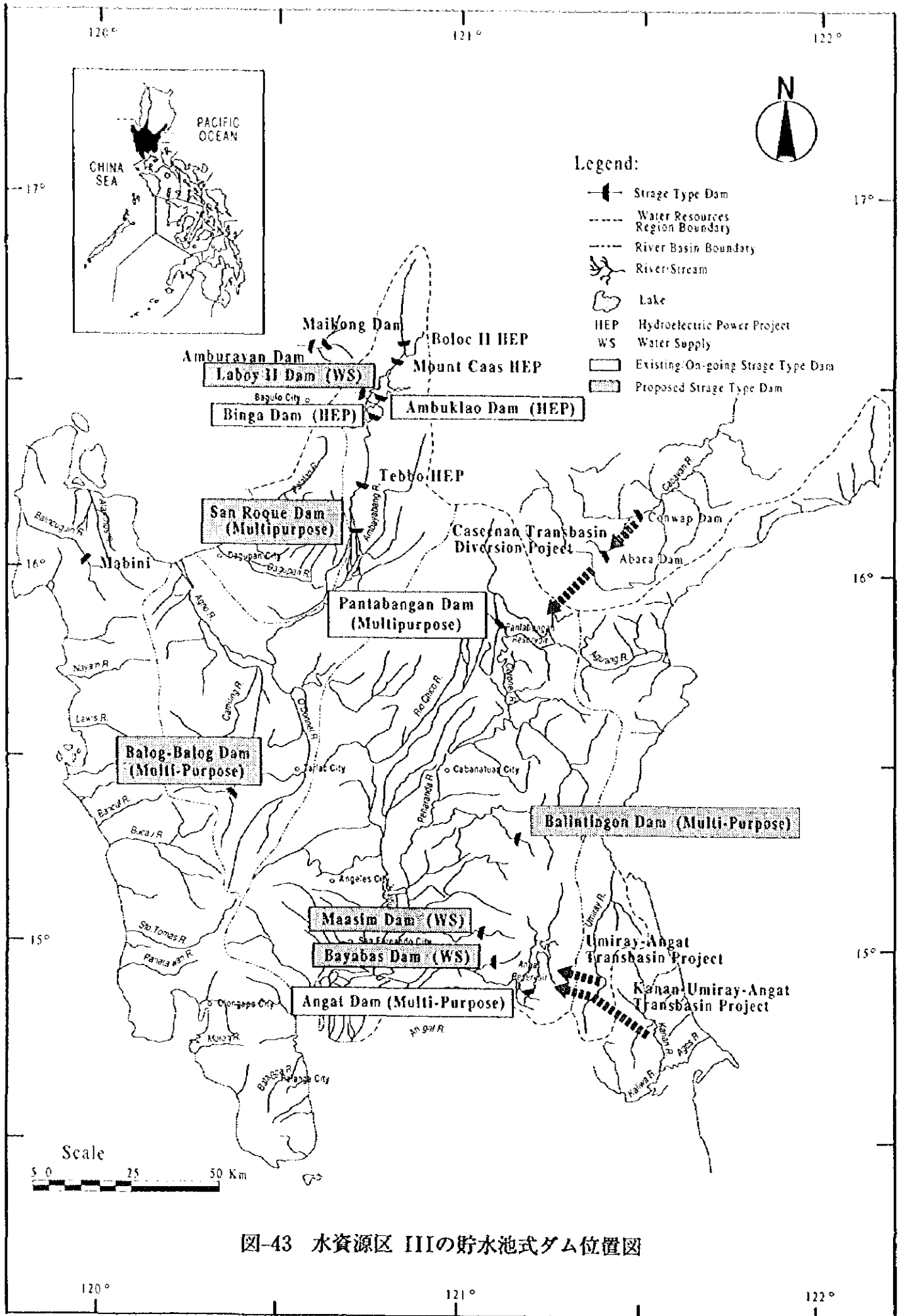
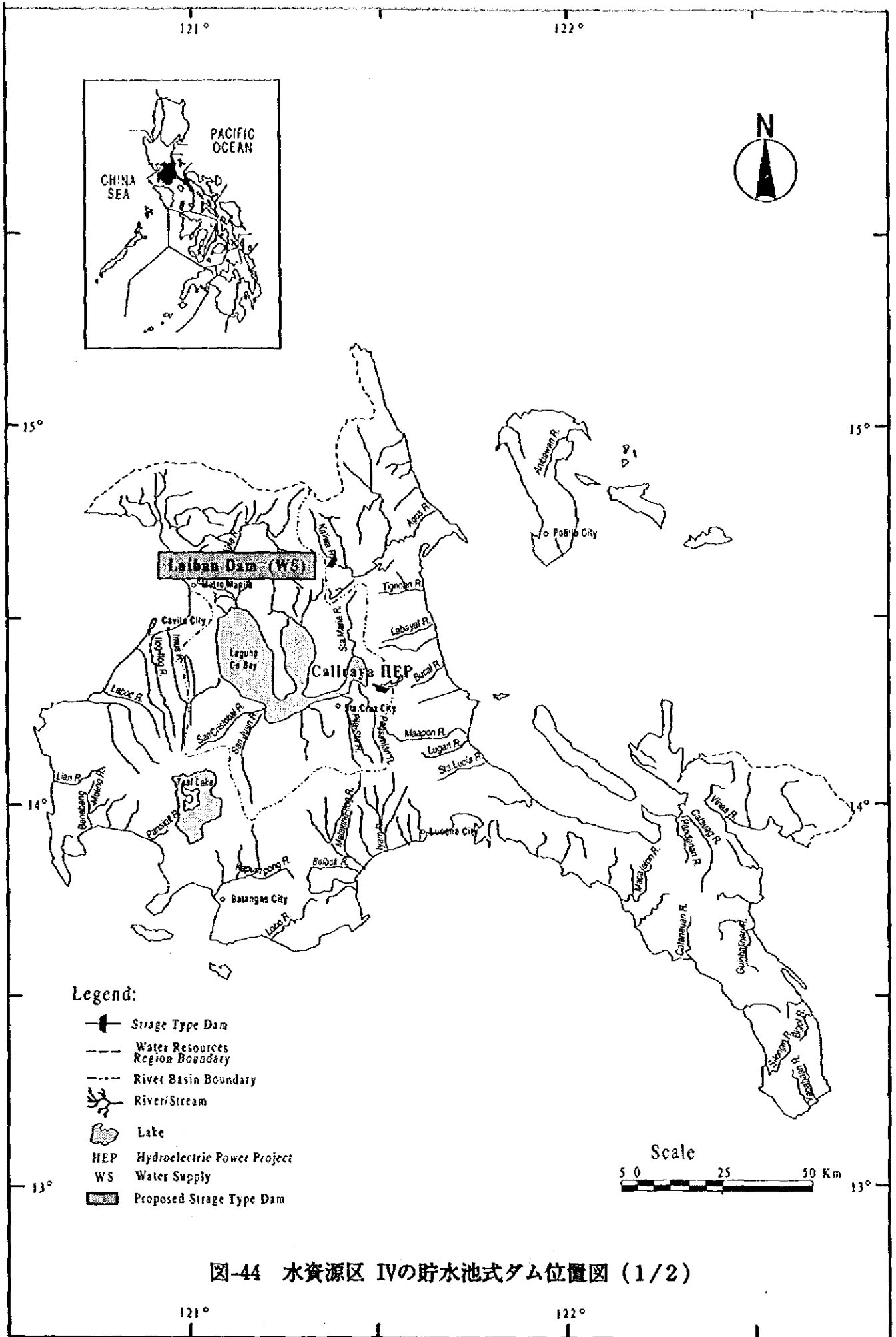


図-42 水資源区 IIの貯水池式ダム位置図







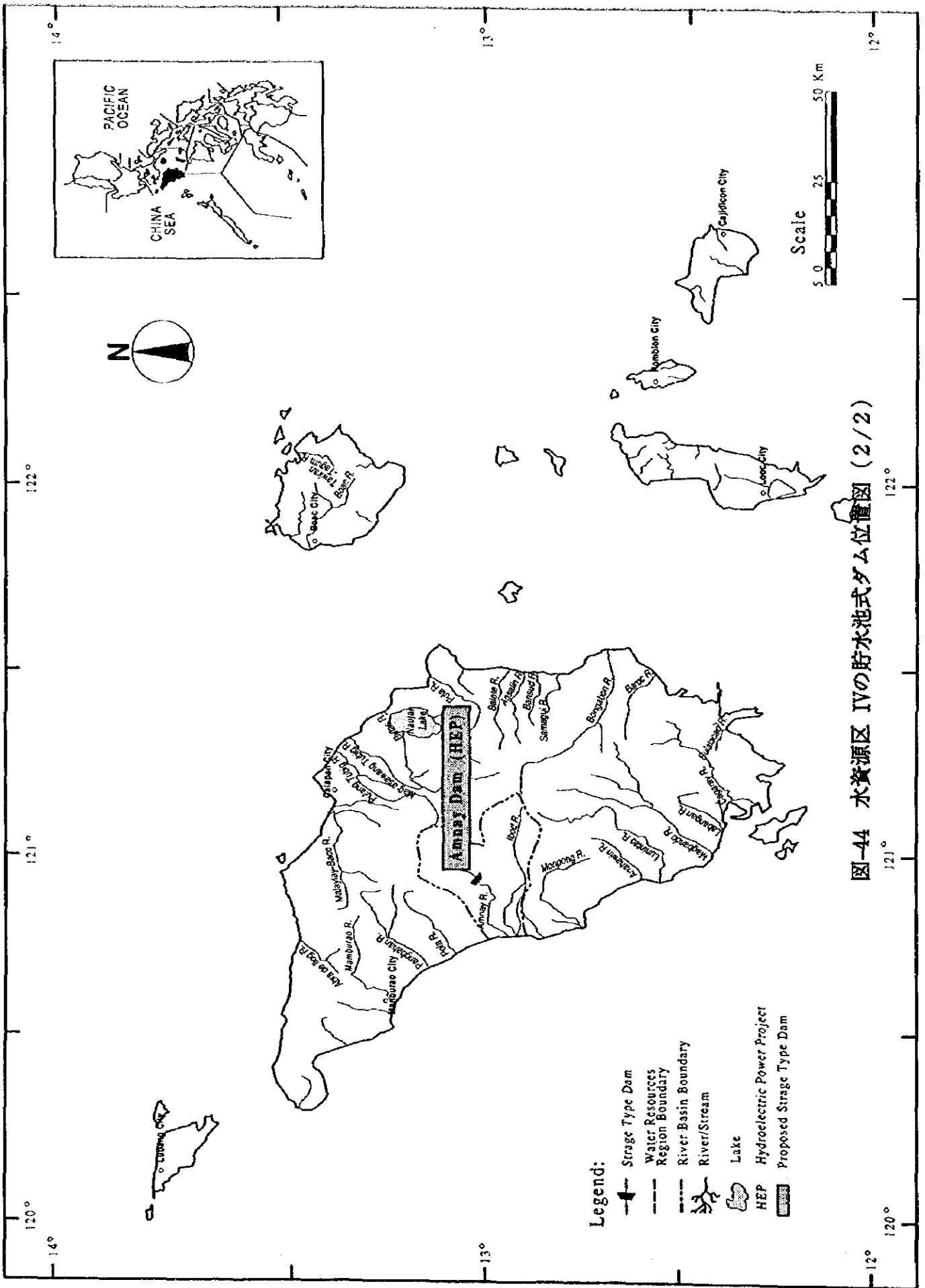


図-44 水資源区 IV の貯水池式ダム位置図 (2/2)

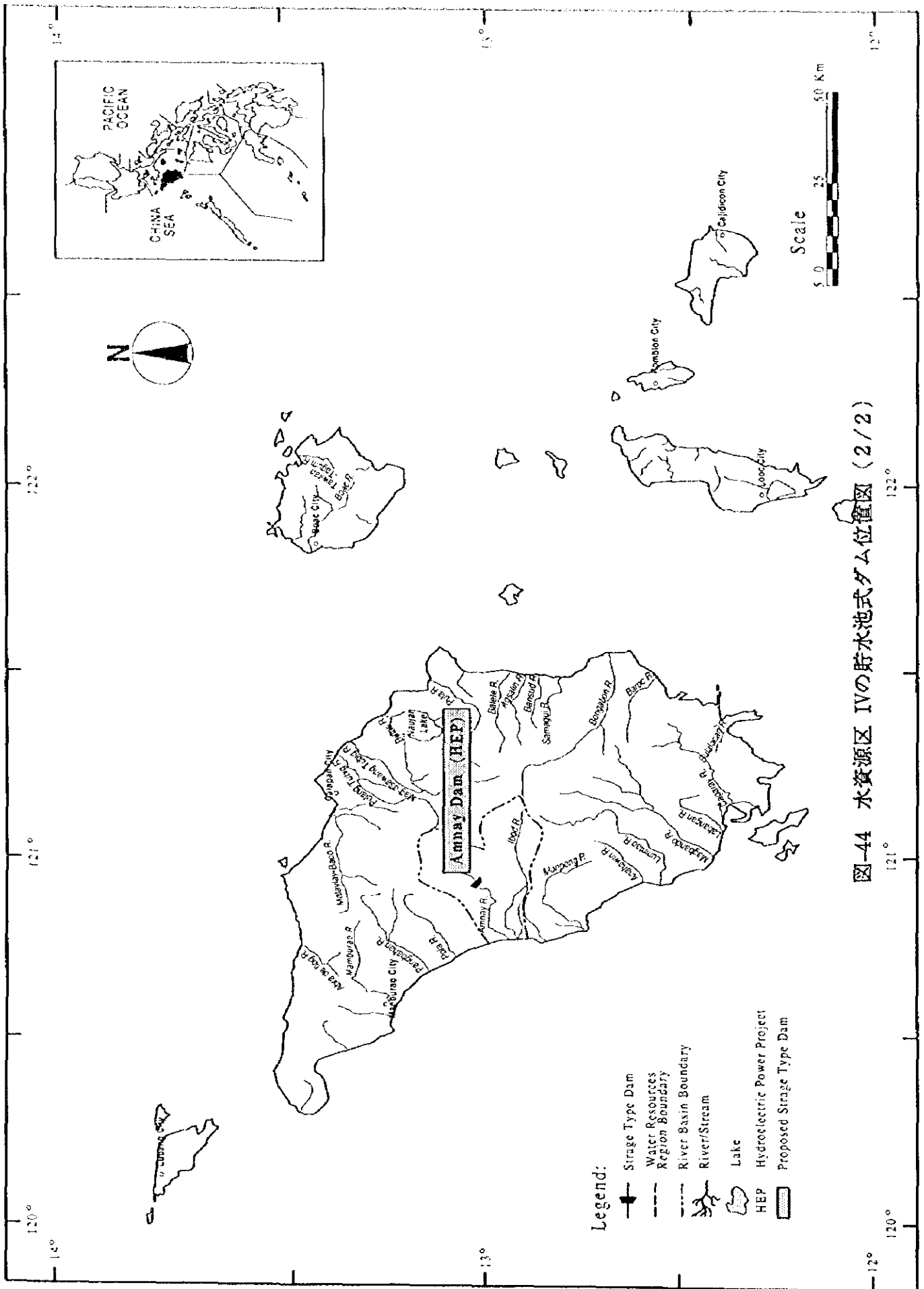


図-44 水資源区 IVの貯水池式ダム位置図 (2/2)

- Legend:
- Storage Type Dam
 - - - Water Resources Region Boundary
 - - - River Basin Boundary
 - River/Stream
 - Lake
 - HEP
 - Proposed Storage Type Dam

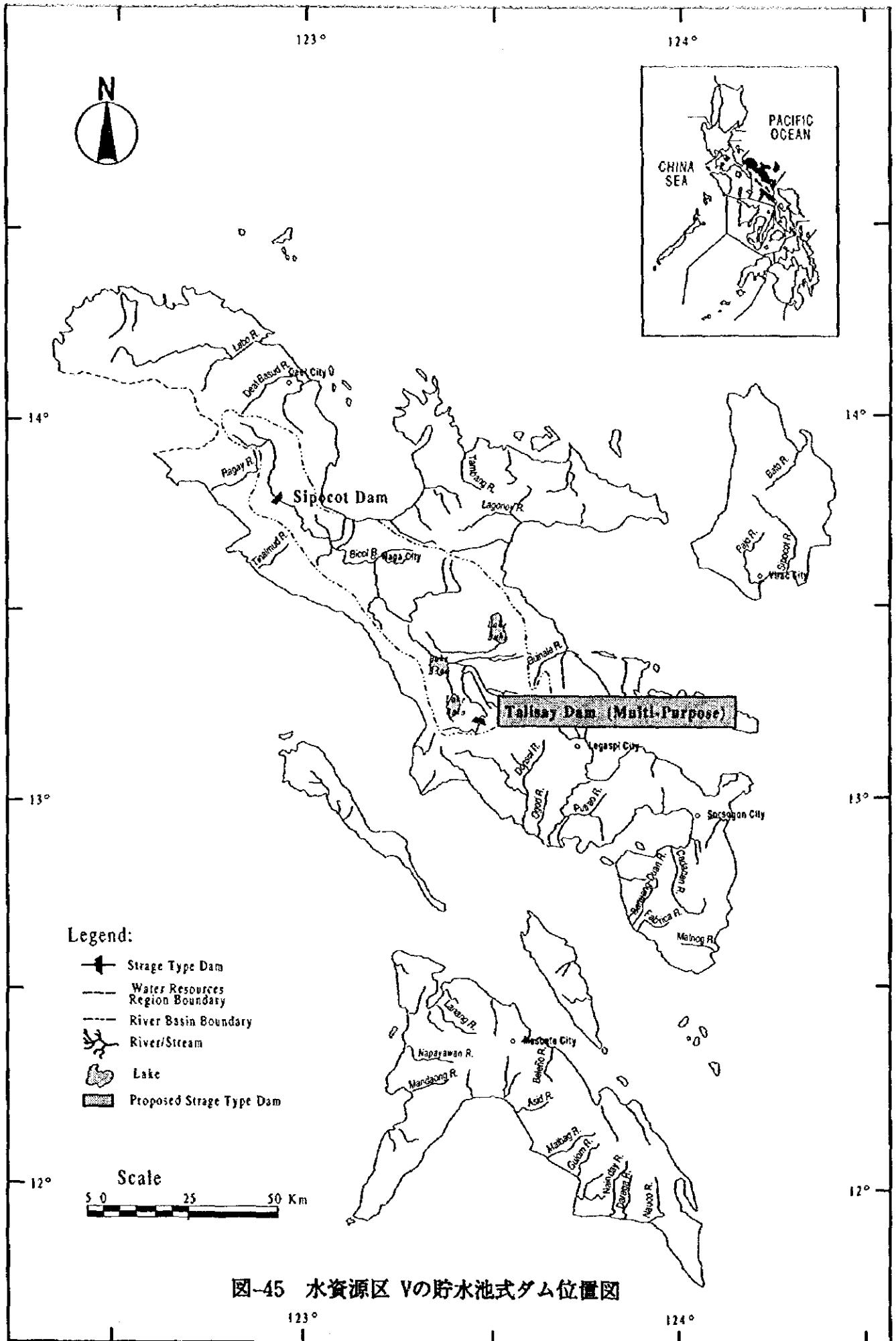
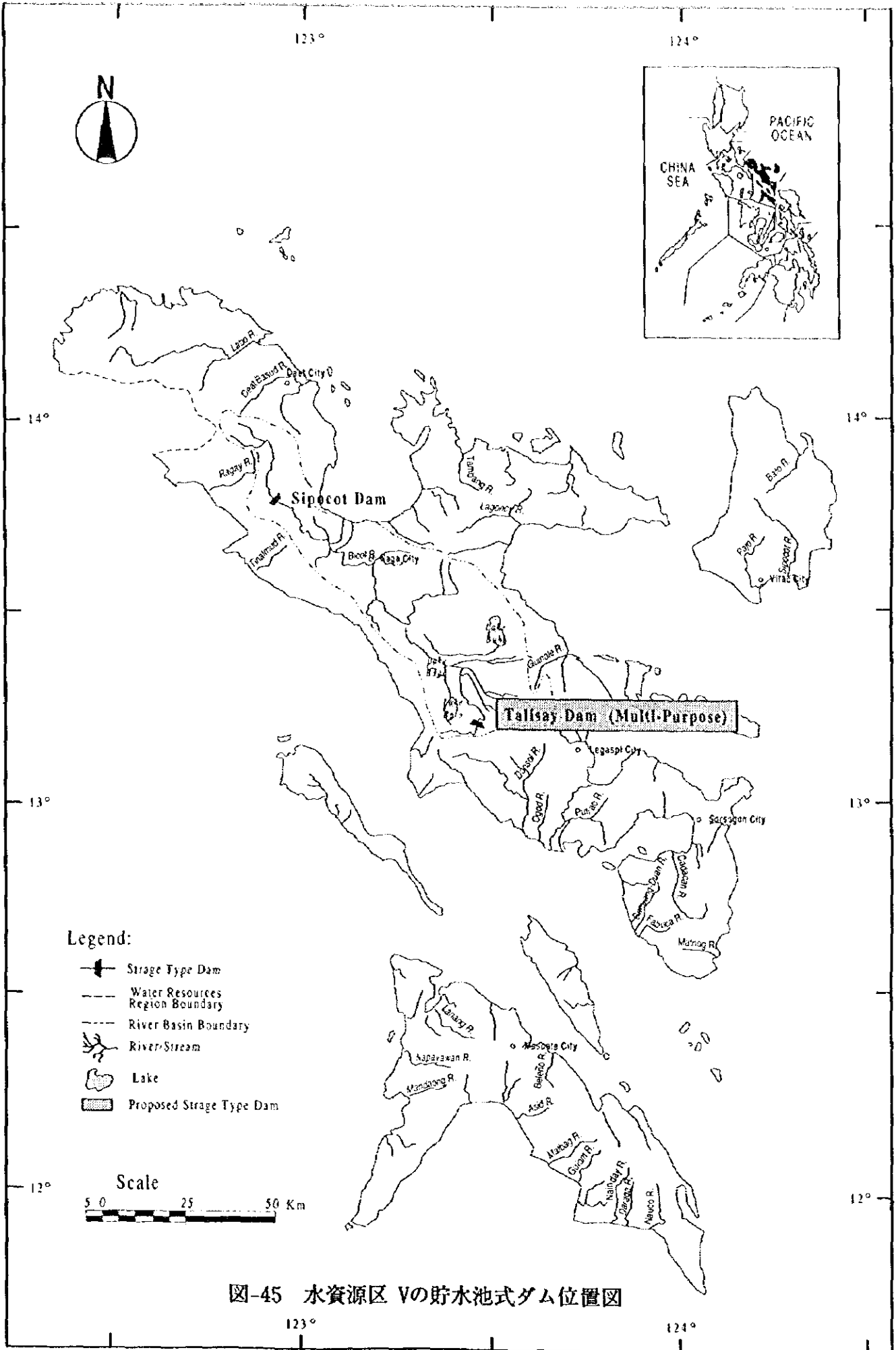


図-45 水資源区 Vの貯水池式ダム位置図



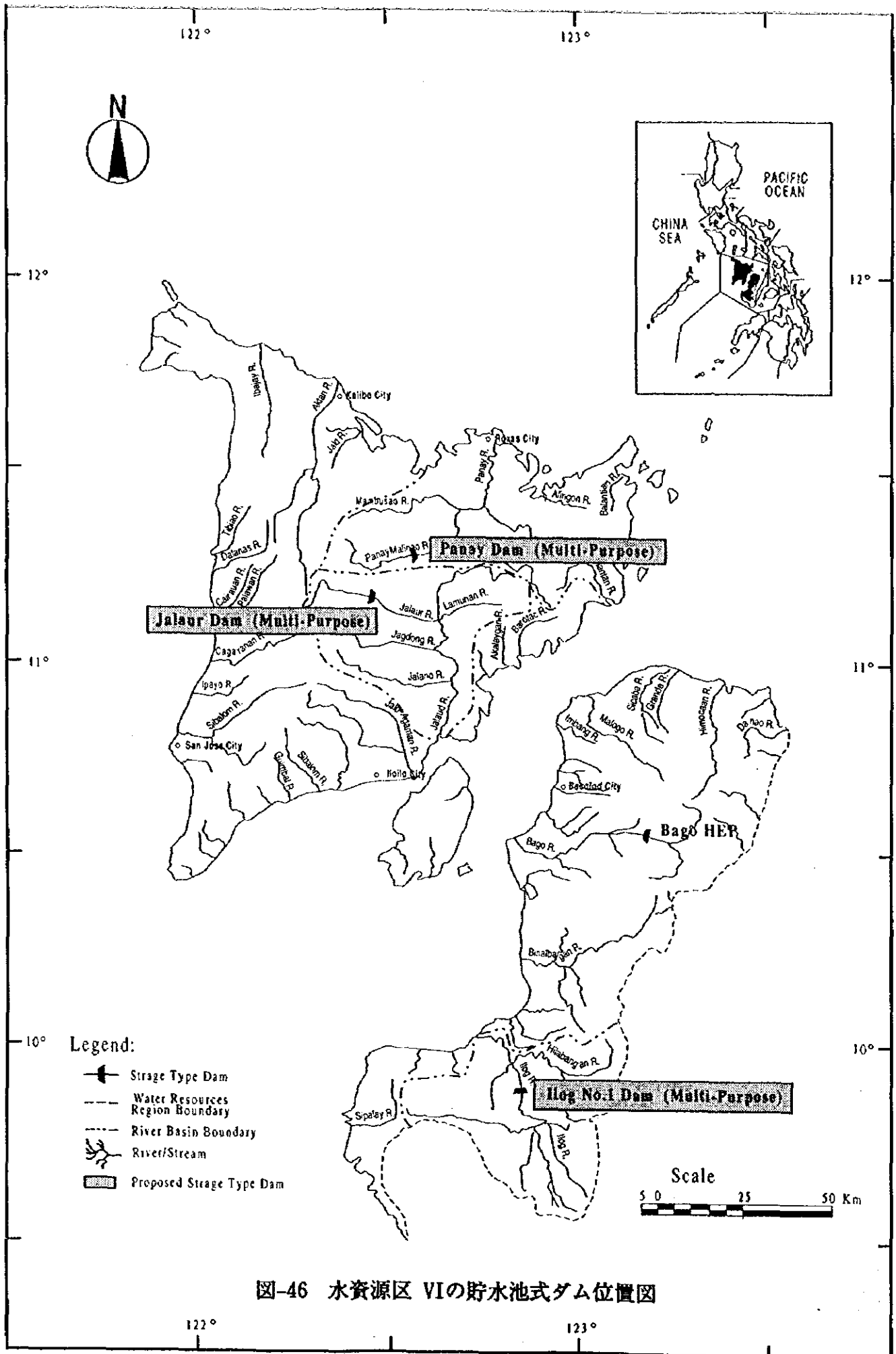


図-46 水資源区 VIの貯水池式ダム位置図

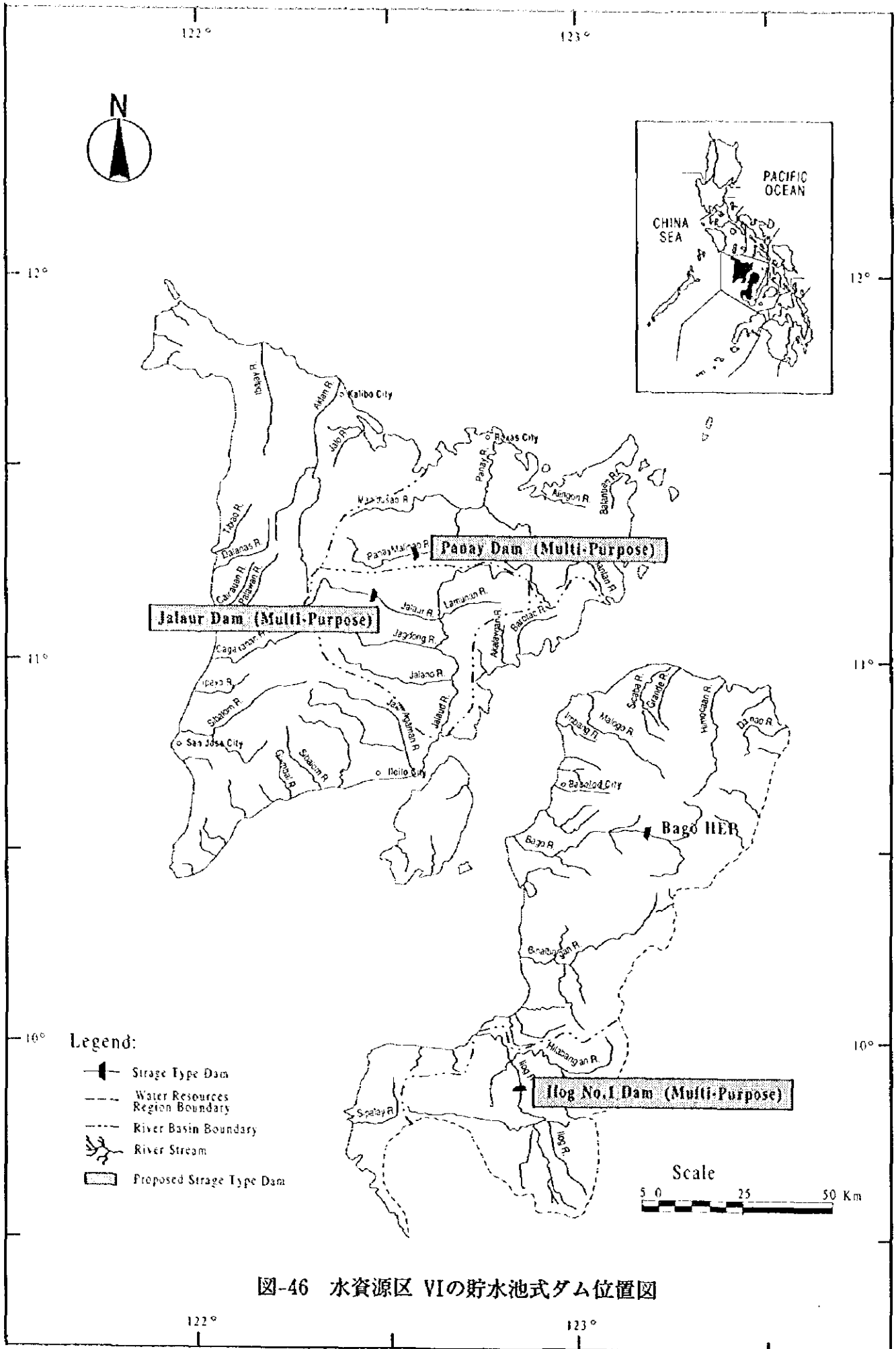


図-46 水資源区 VIの貯水池式ダム位置図

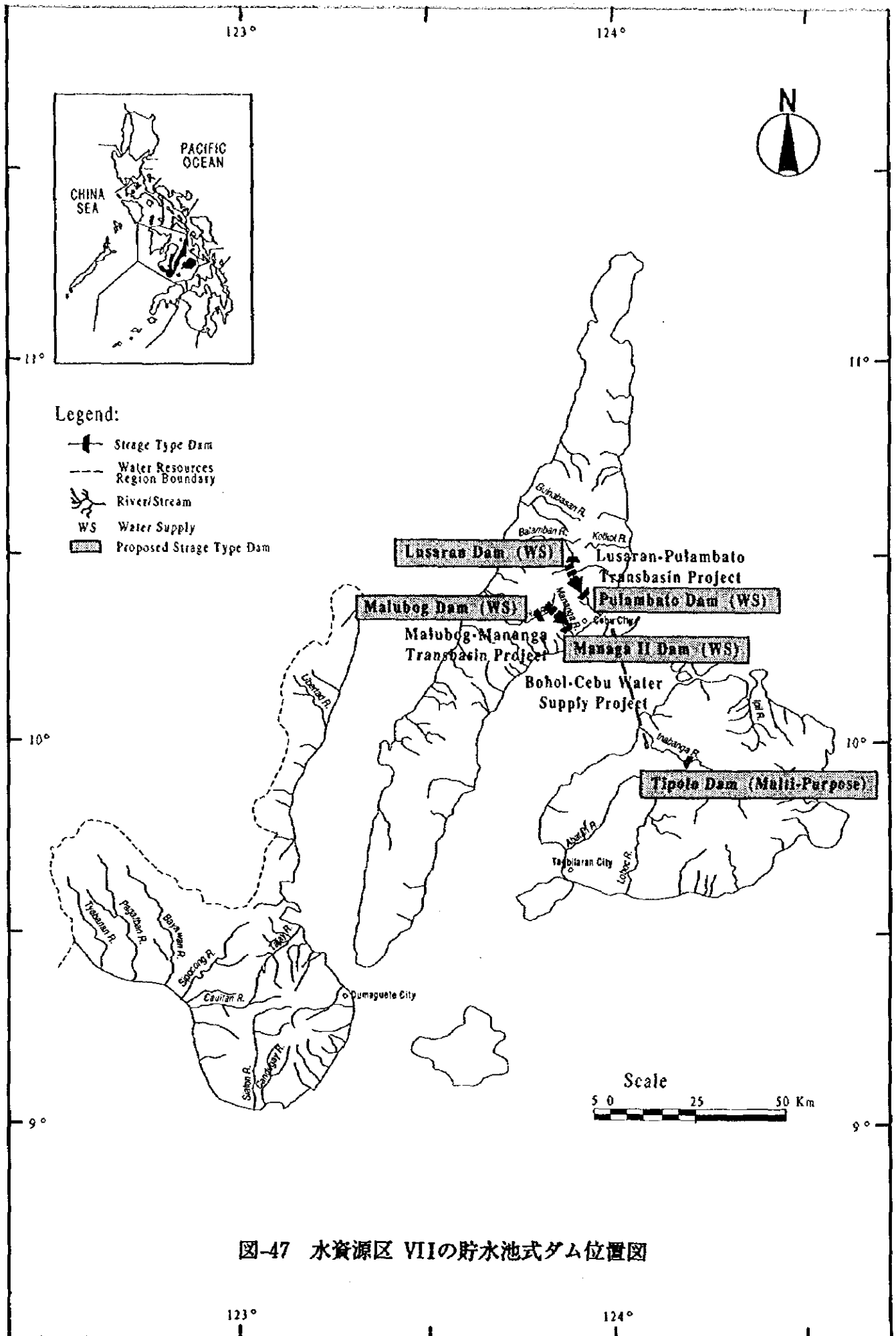


図-47 水資源区 VIIの貯水池式ダム位置図

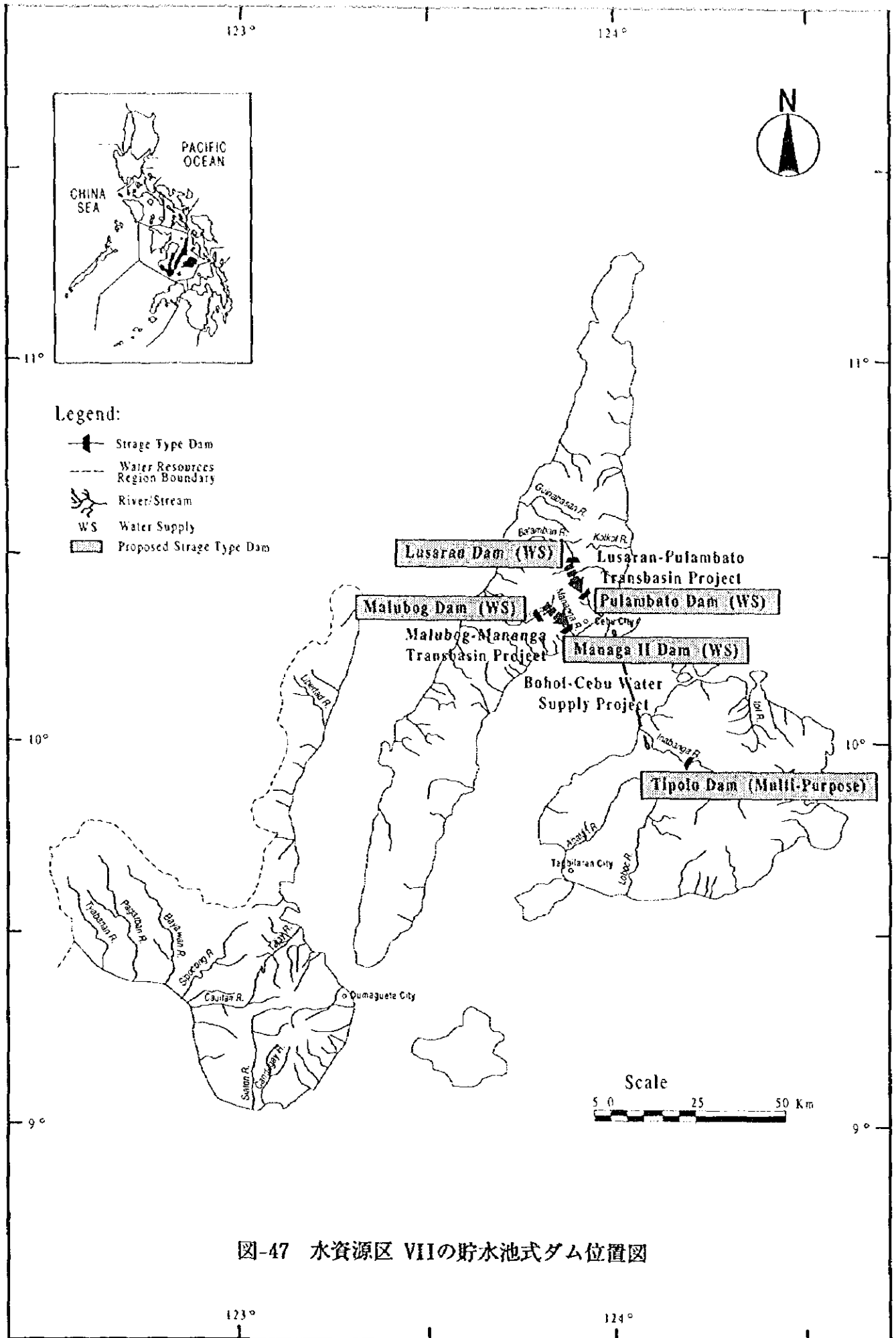


図-47 水資源区 VIIの貯水池式ダム位置図

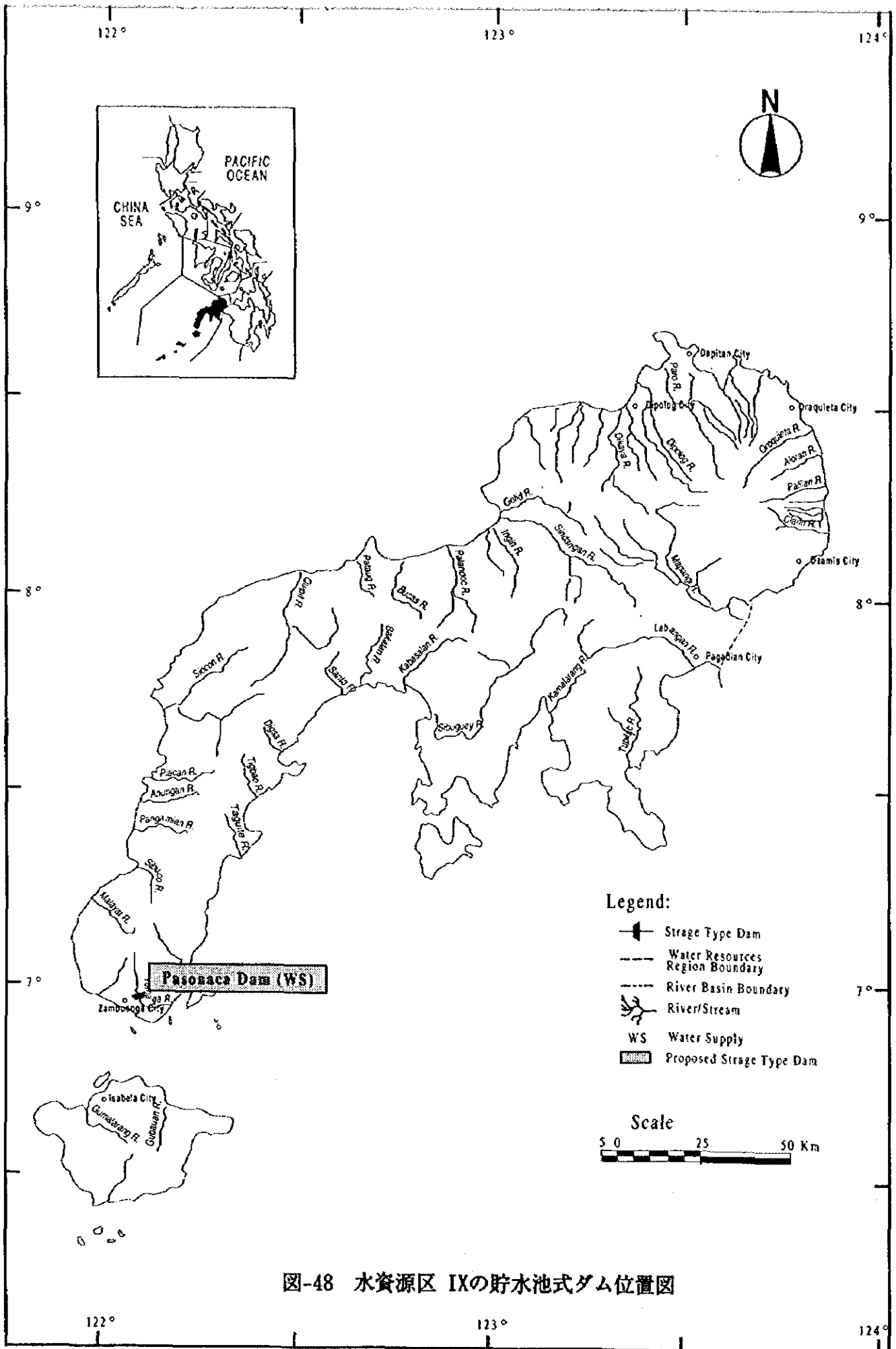


図-48 水資源区 IXの貯水池式ダム位置図

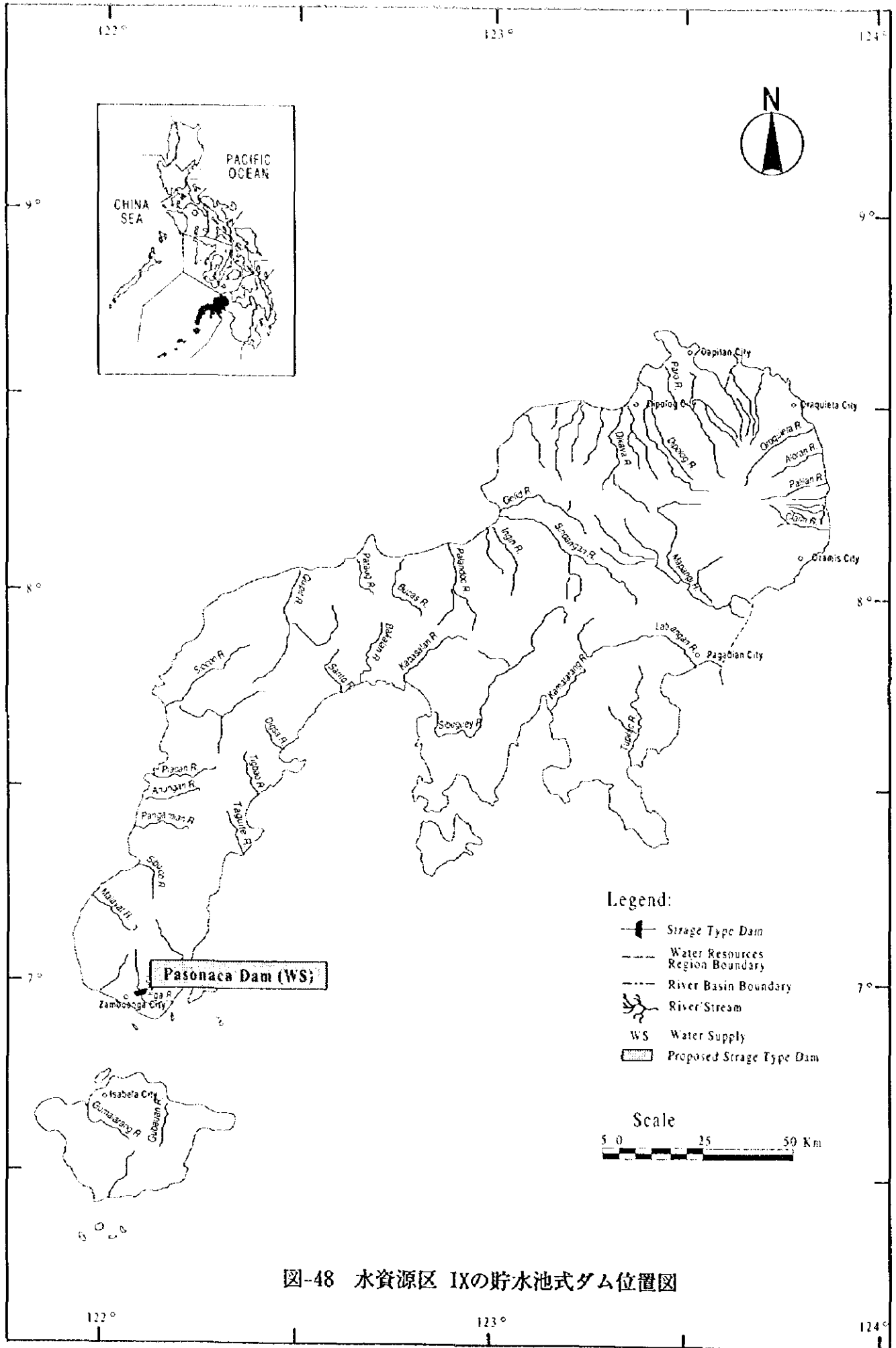


図-48 水資源区 IXの貯水池式ダム位置図

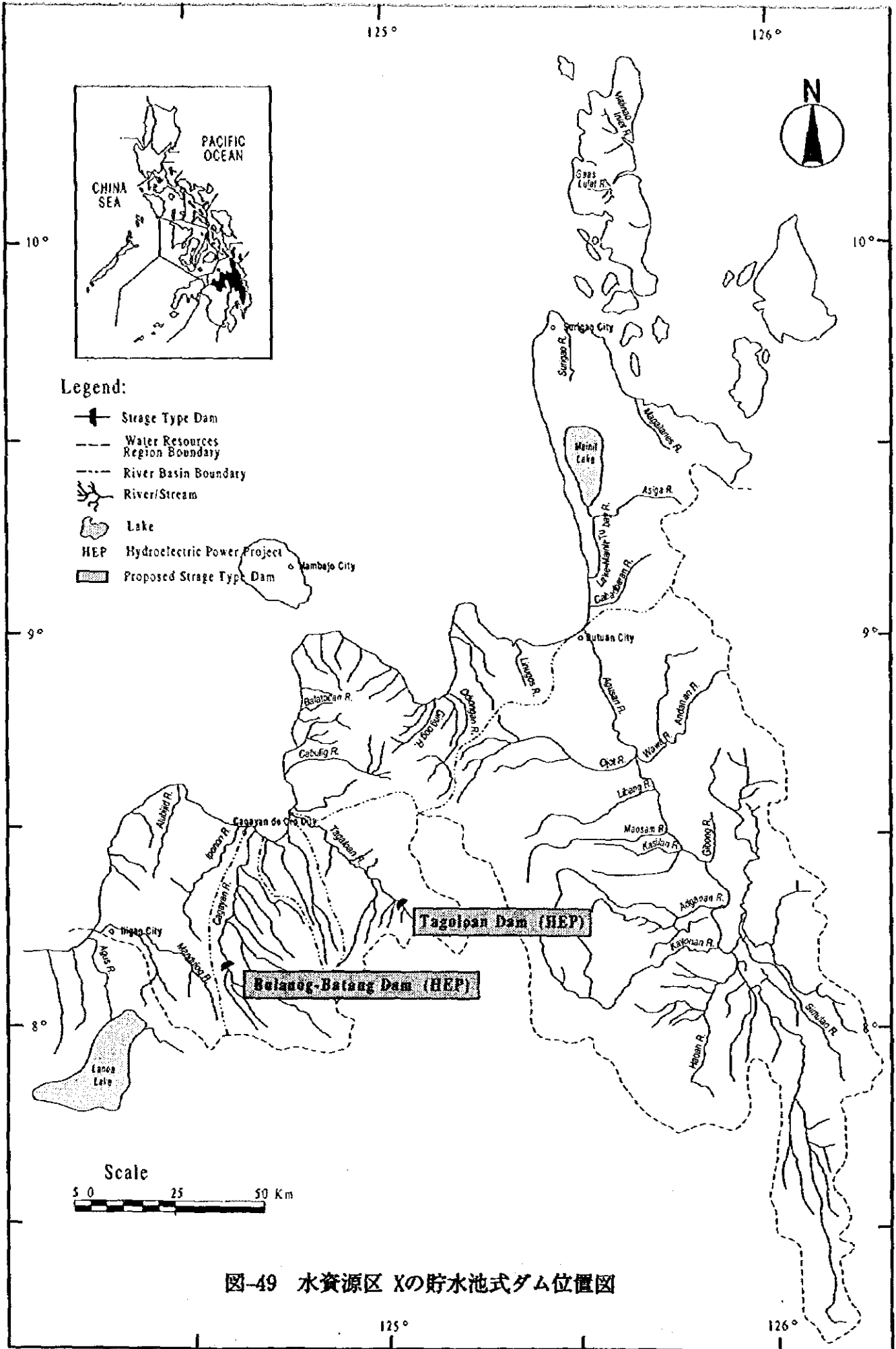


図-49 水資源区 Xの貯水池式ダム位置図

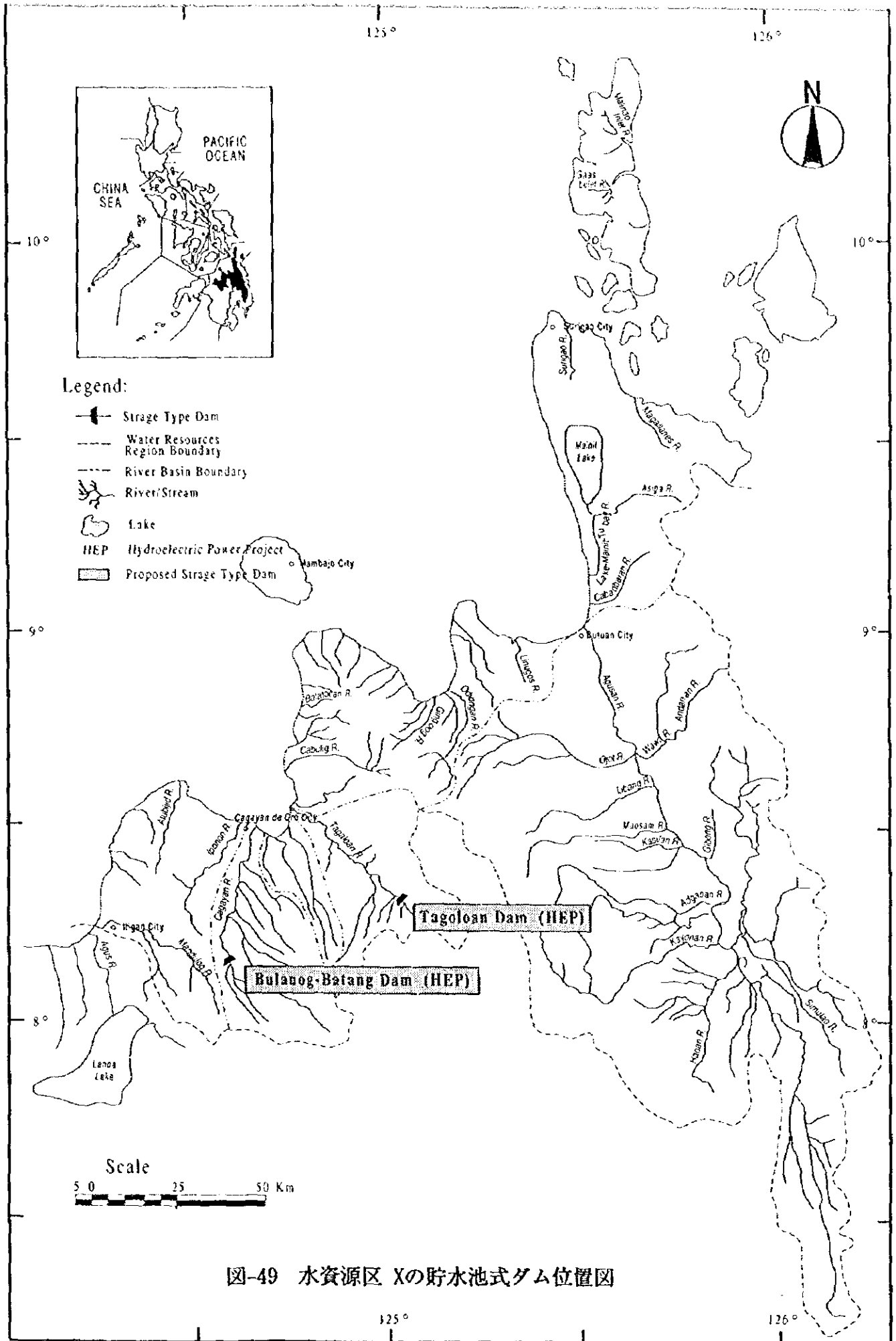


図-49 水資源区 Xの貯水池式ダム位置図

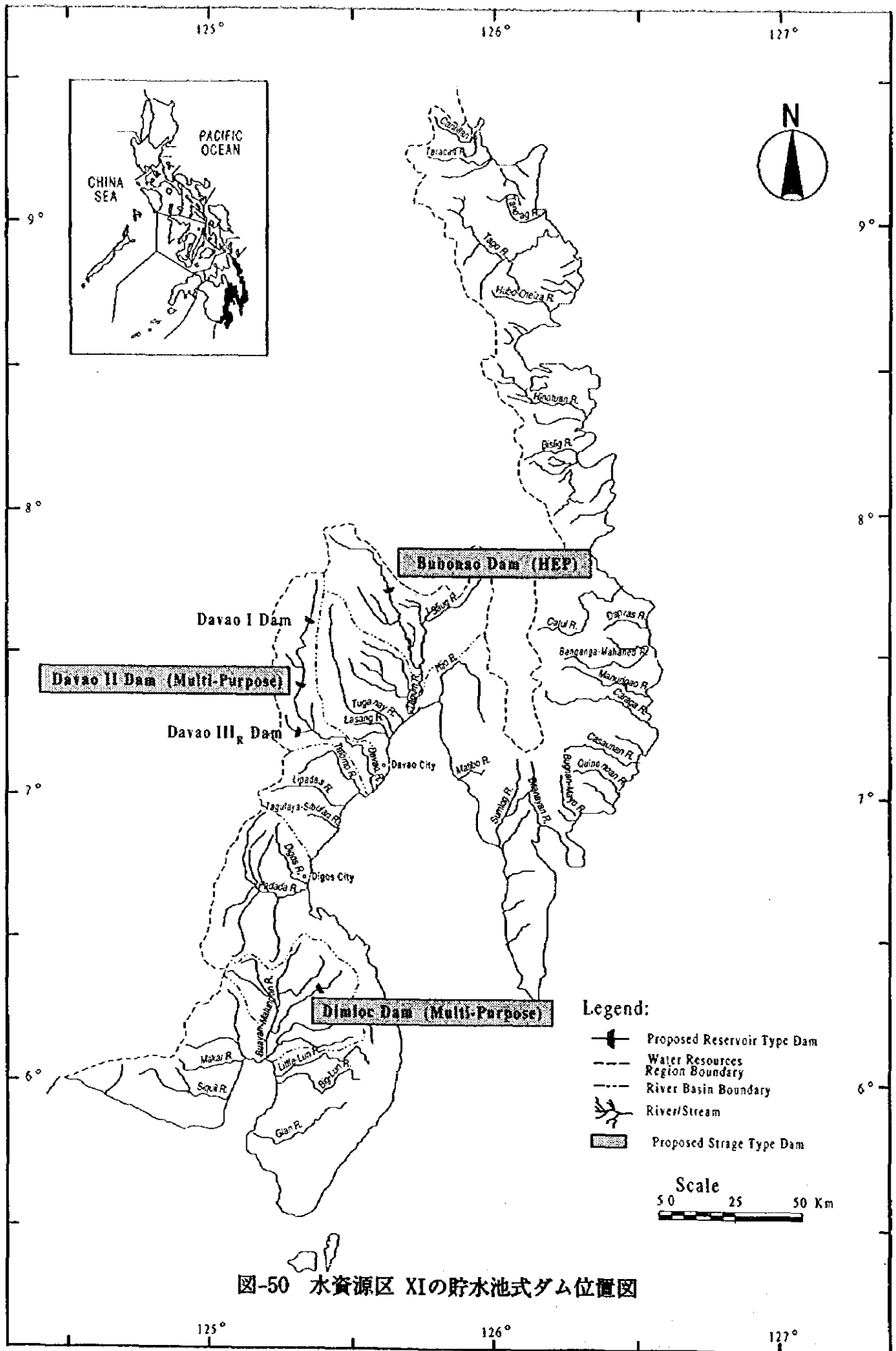


図-50 水資源区 XIの貯水池式ダム位置図

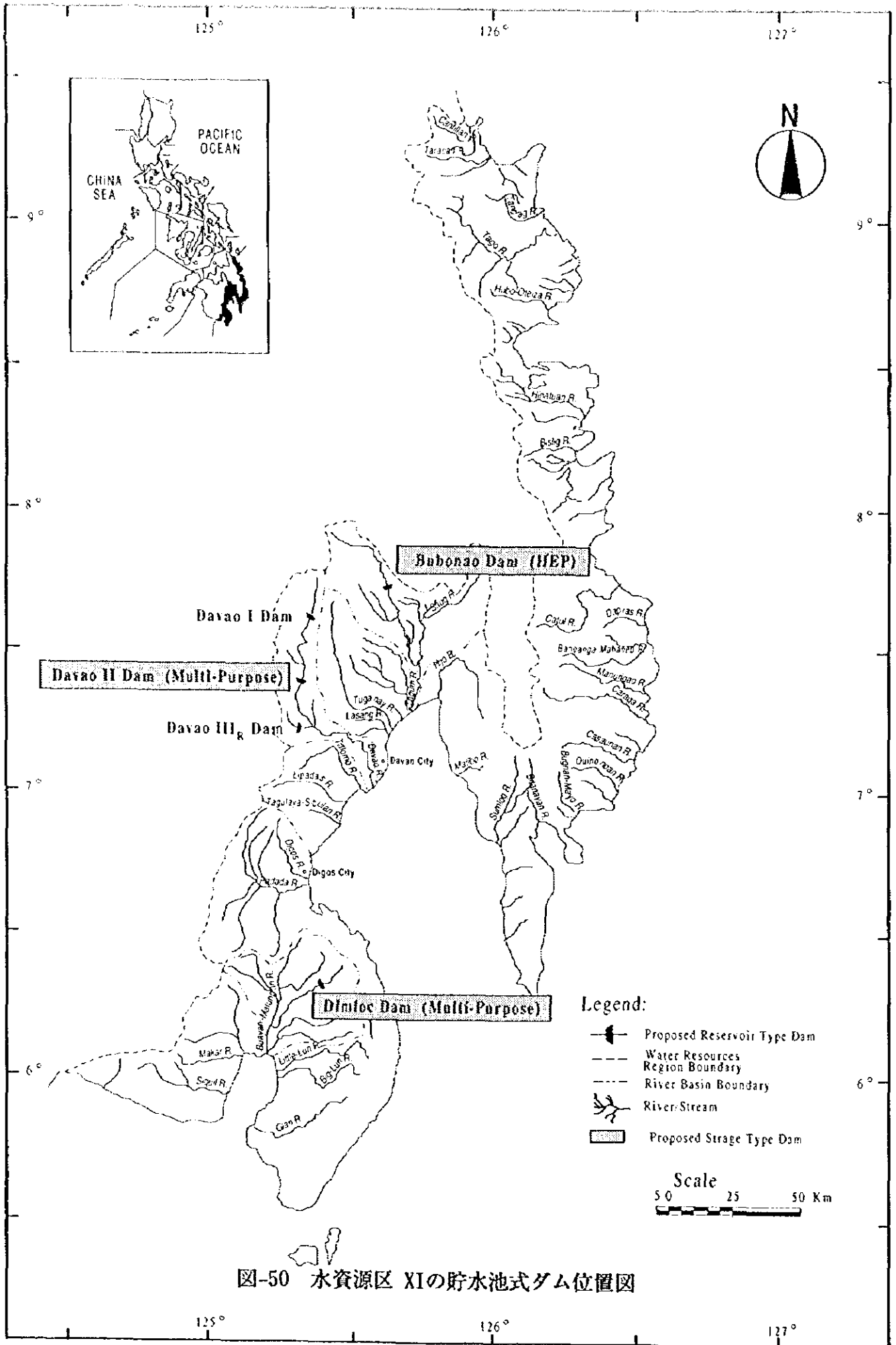
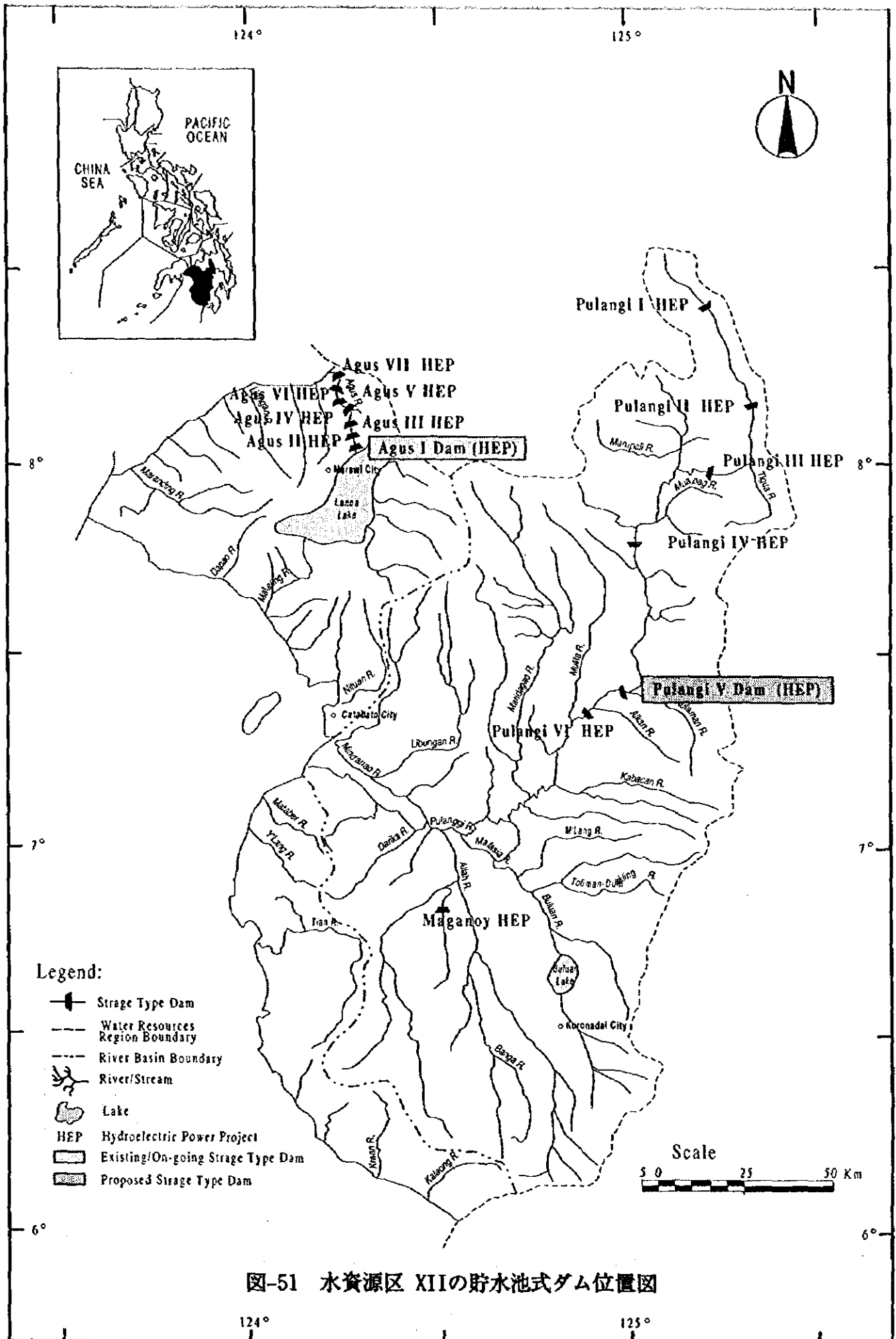


図-50 水資源区 XIの貯水池式ダム位置図



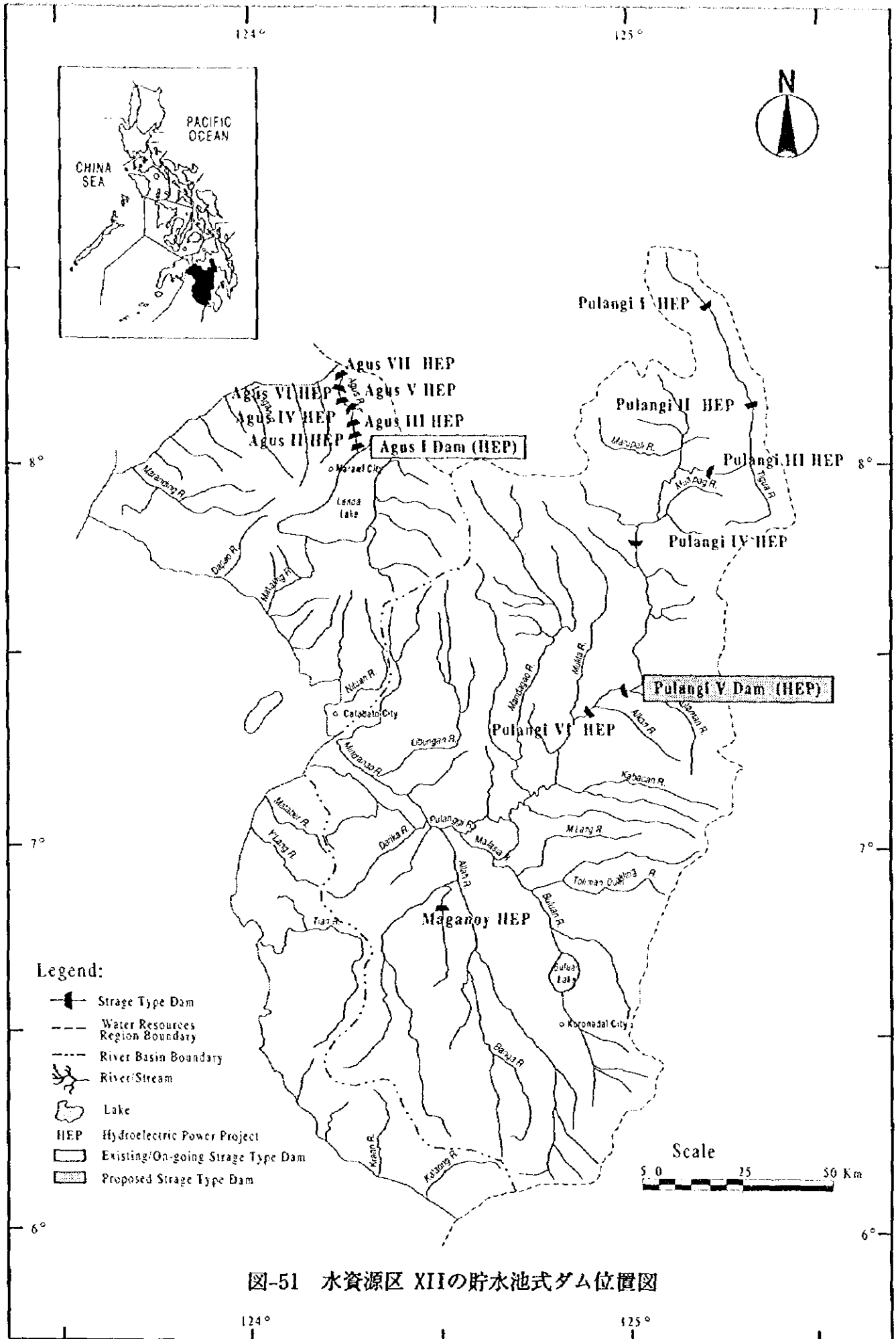


図-51 水資源区 XIIの貯水池式ダム位置図

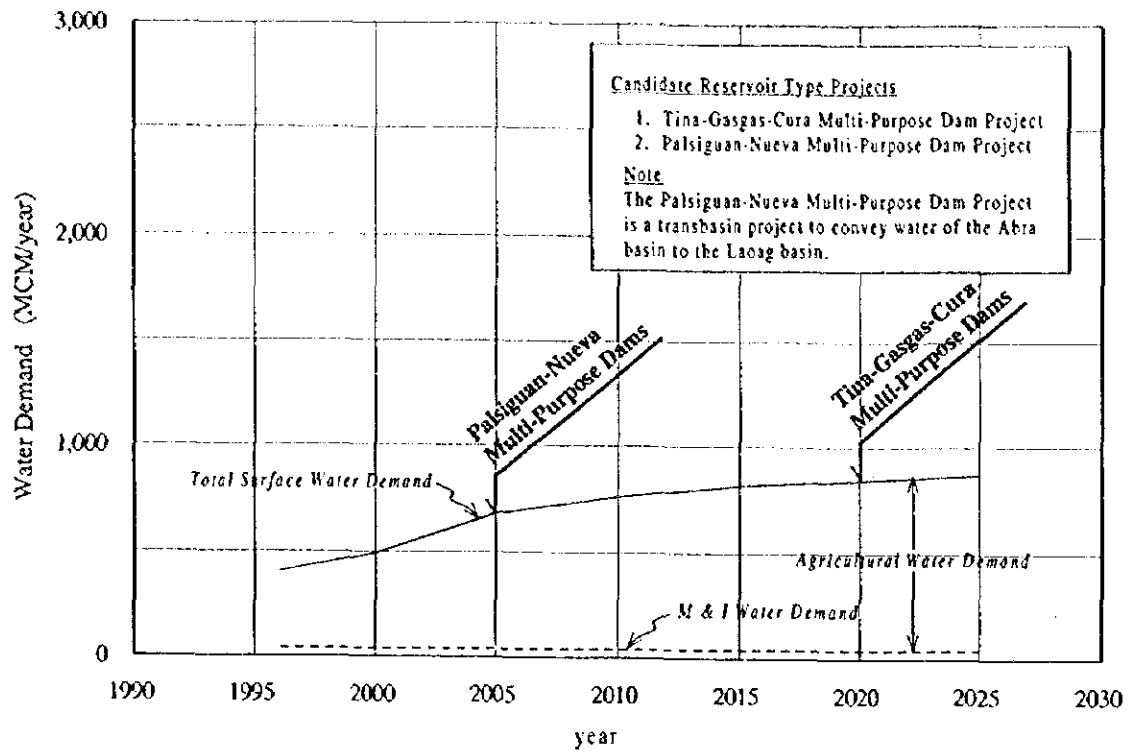


図-52 高位経済成長下でのラオアグ流域の表流水需要

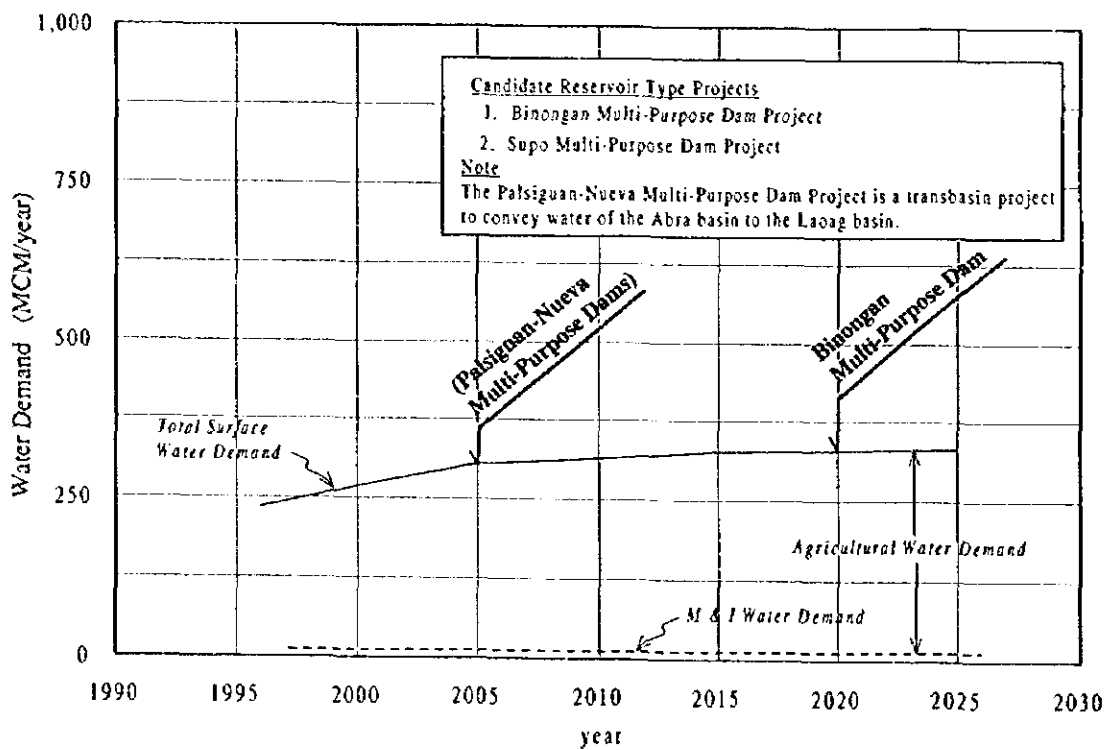


図-53 高位経済成長下でのアブラ流域の表流水需要

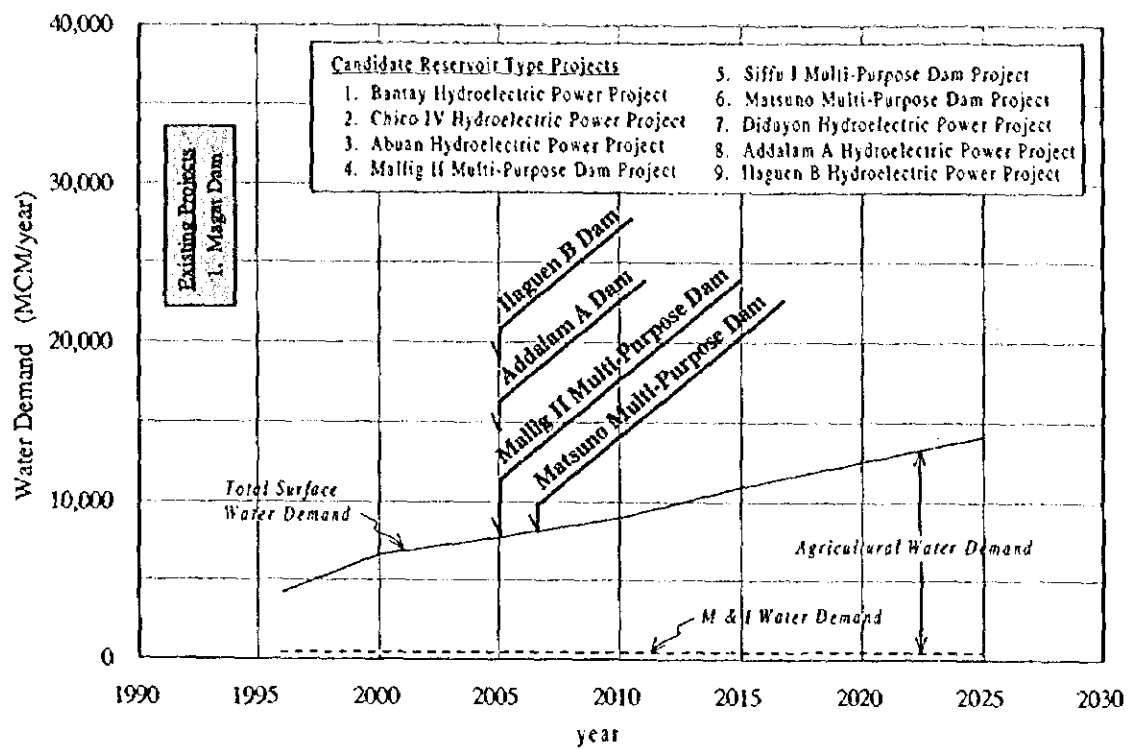


図-54 高位経済成長下でのカガヤン流域の表流水需要

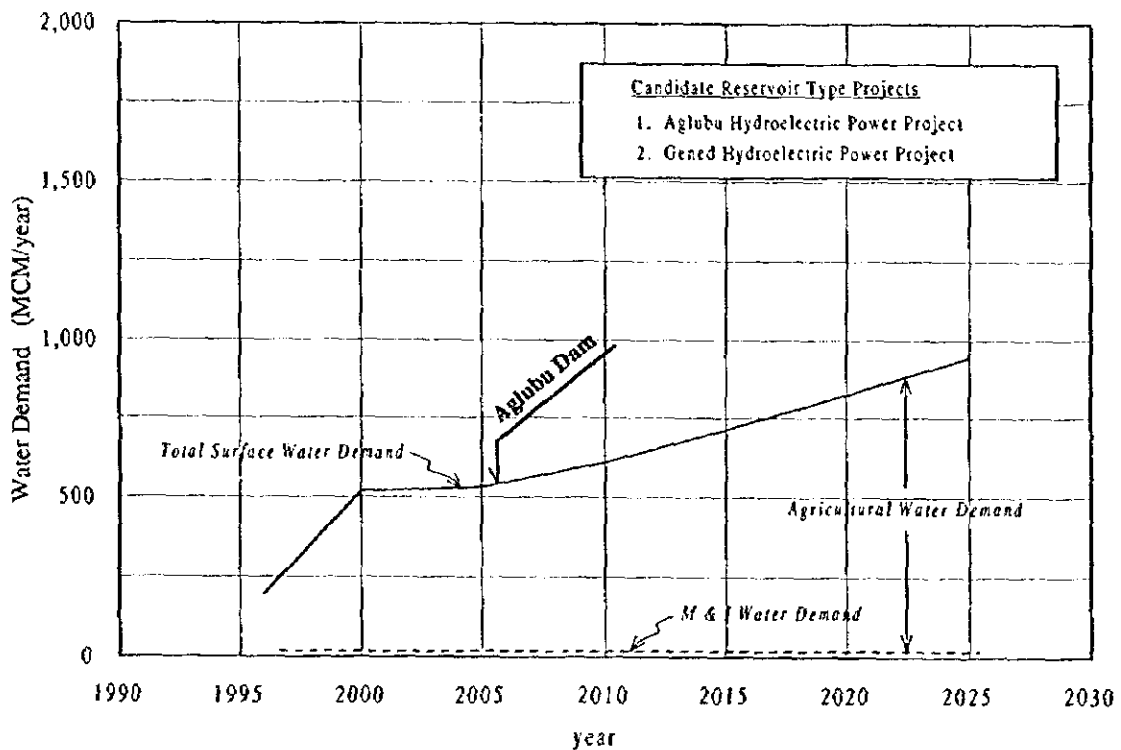


図-55 高位経済成長下でのアブルグ流域の表流水需要

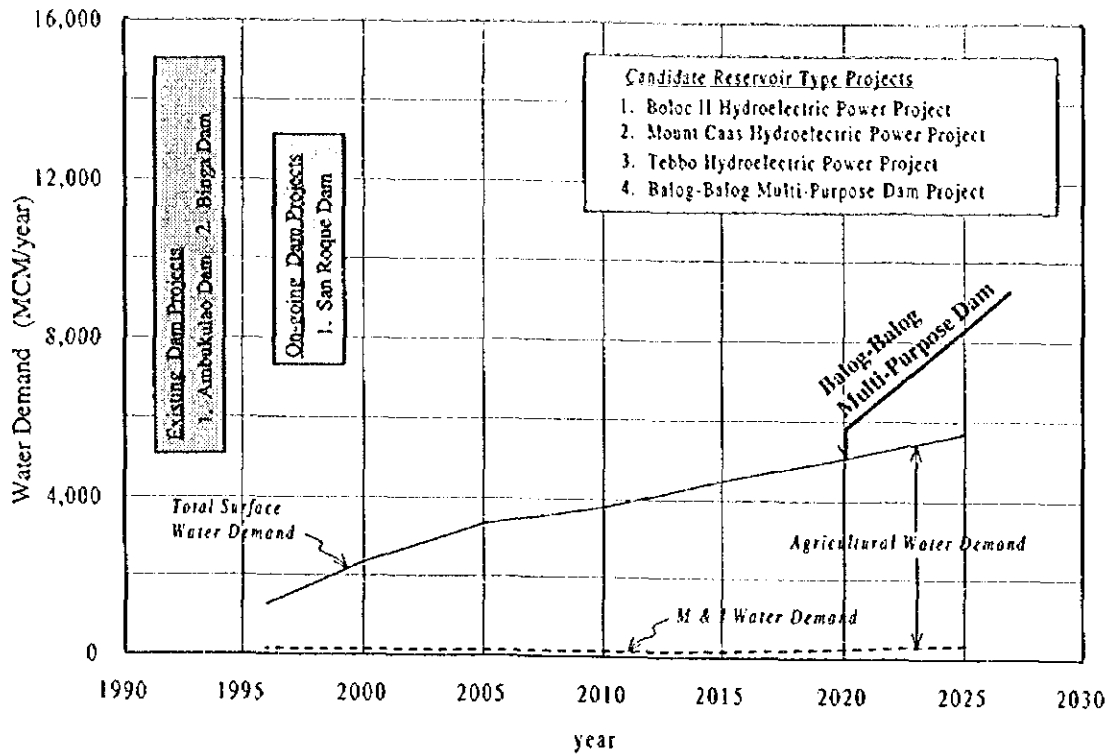


図-56 高位経済成長下でのアグノ流域の表流水需要

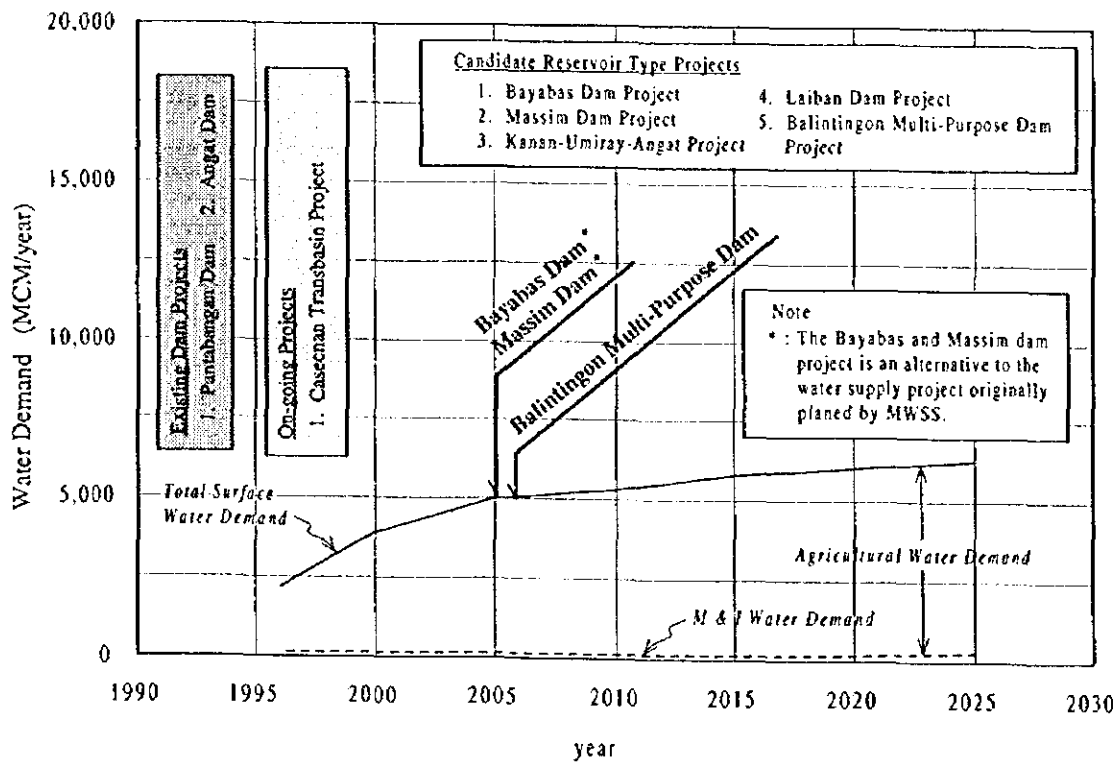


図-57 高位経済成長下でのパンパンガ流域の表流水需要

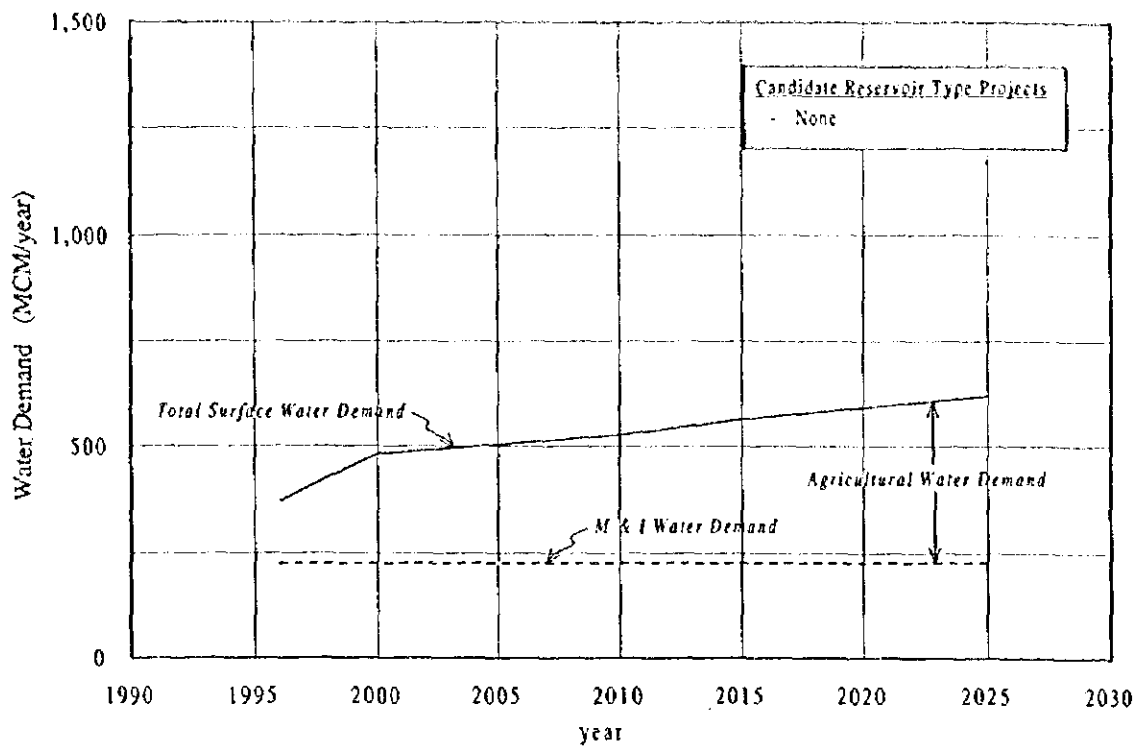


図-58 高位経済成長下でのバシグ-ラグナ流域の表流水需要

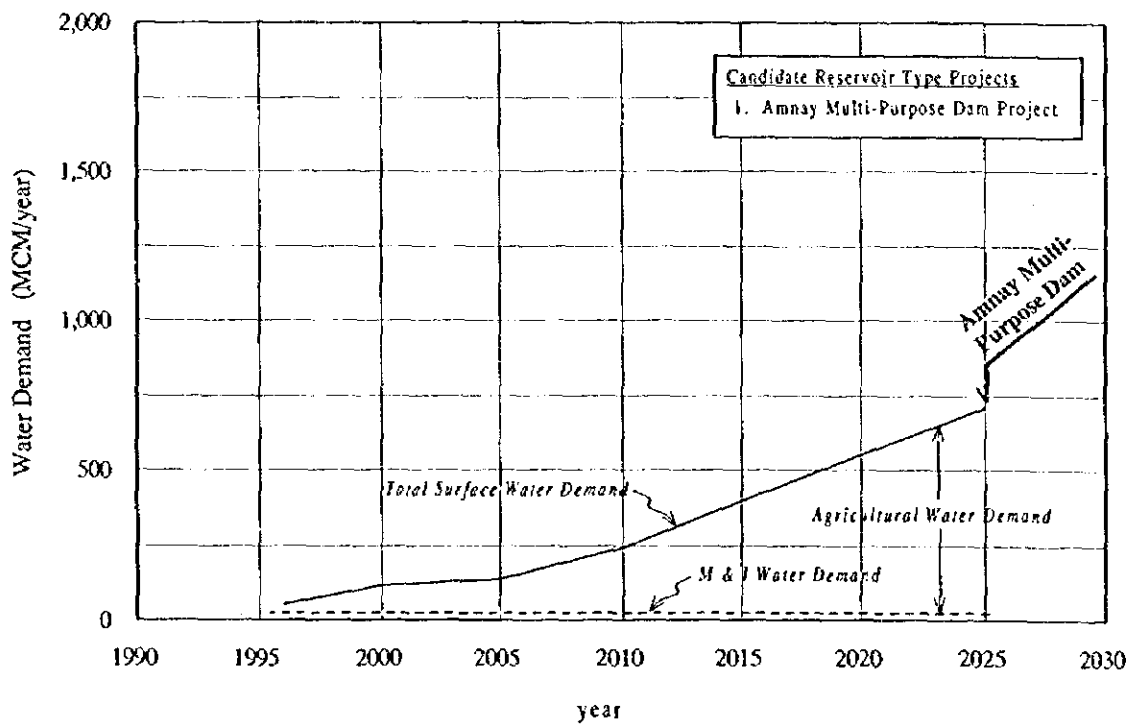
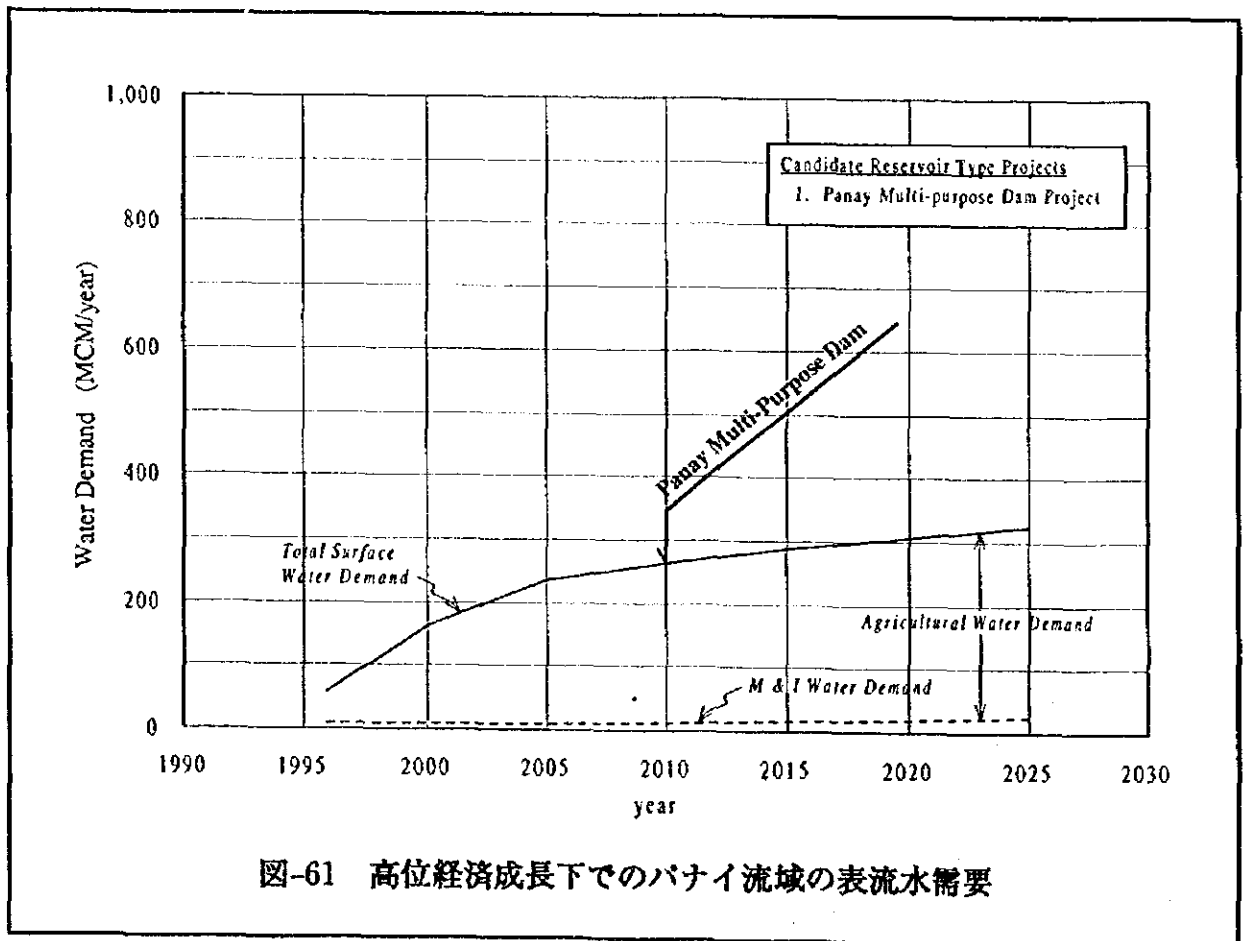
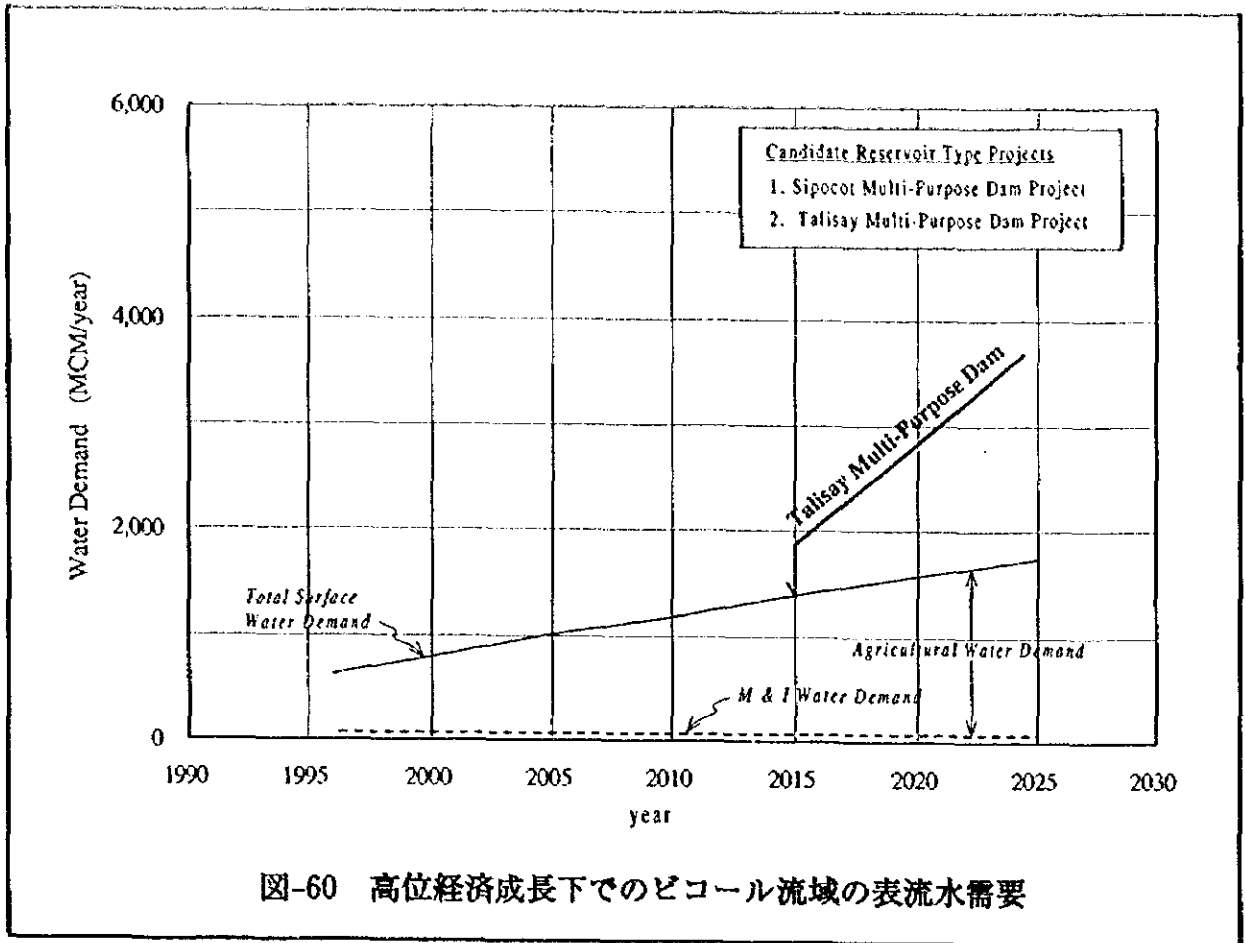


図-59 高位経済成長下でのアムナイ-バトリック流域の表流水需要



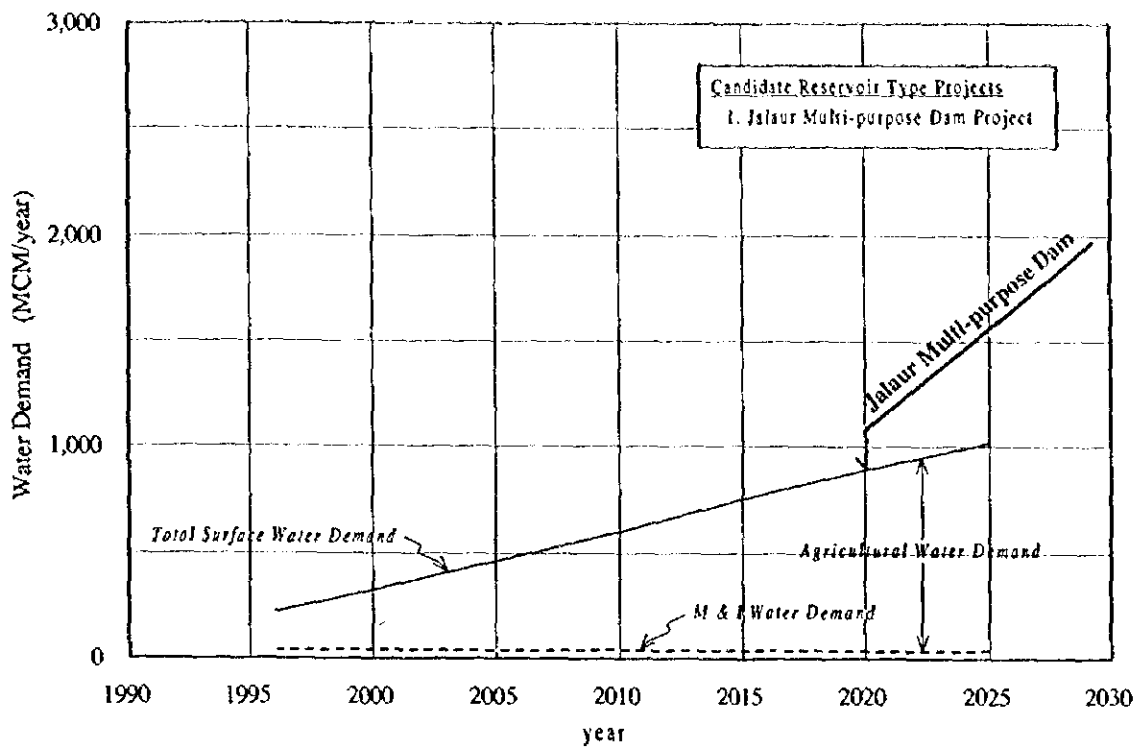


図-62 高位経済成長下でのハロール流域の表流水需要

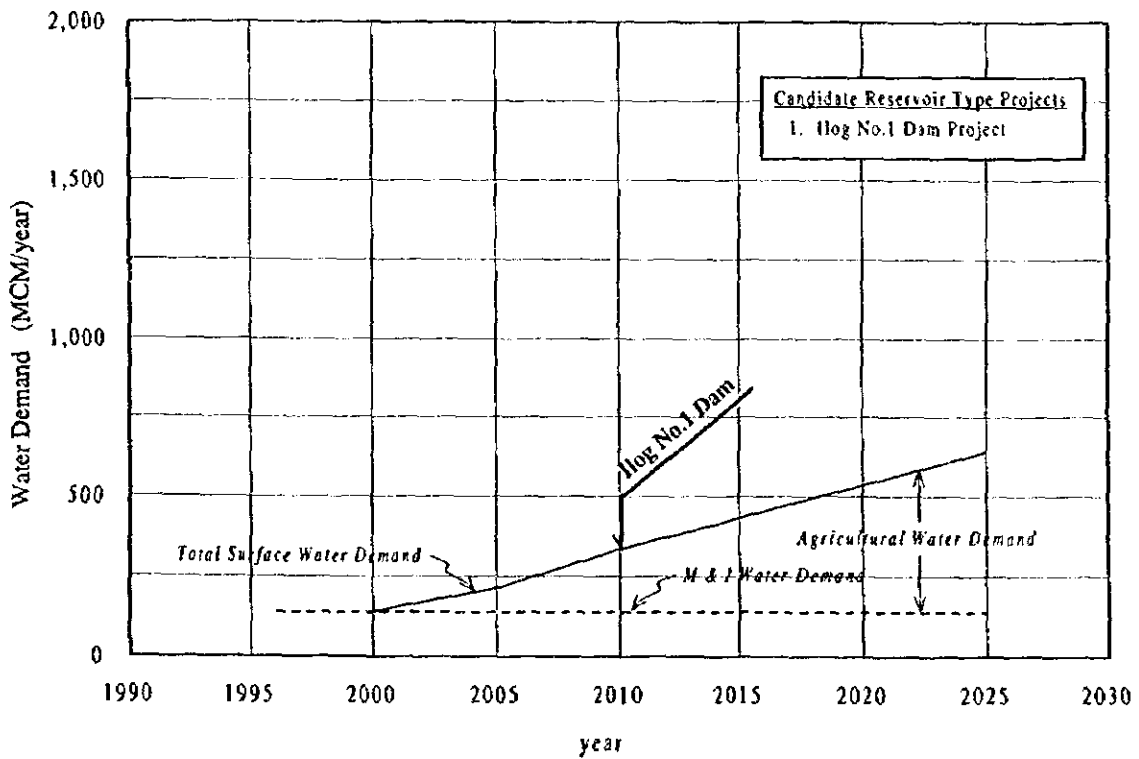


図-63 高位経済成長下でのイログ-ヒラバガン流域の表流水需要

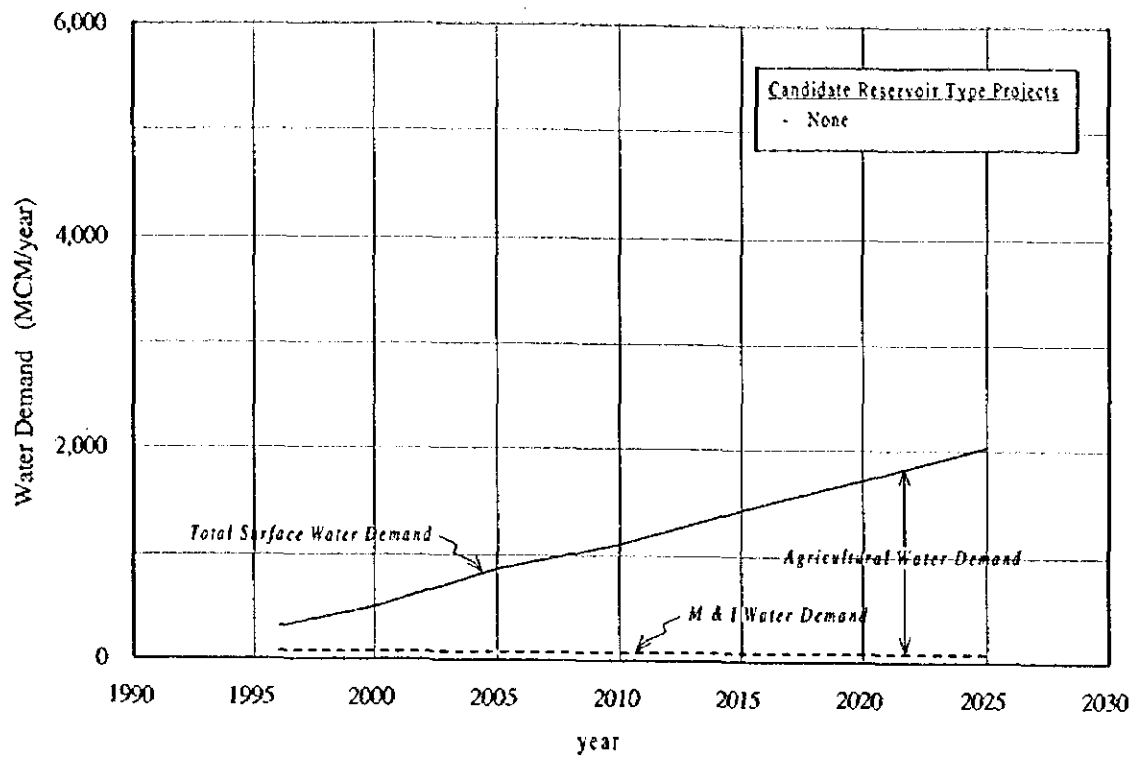


図-64 高位経済成長下でのアグサン流域の表流水需要

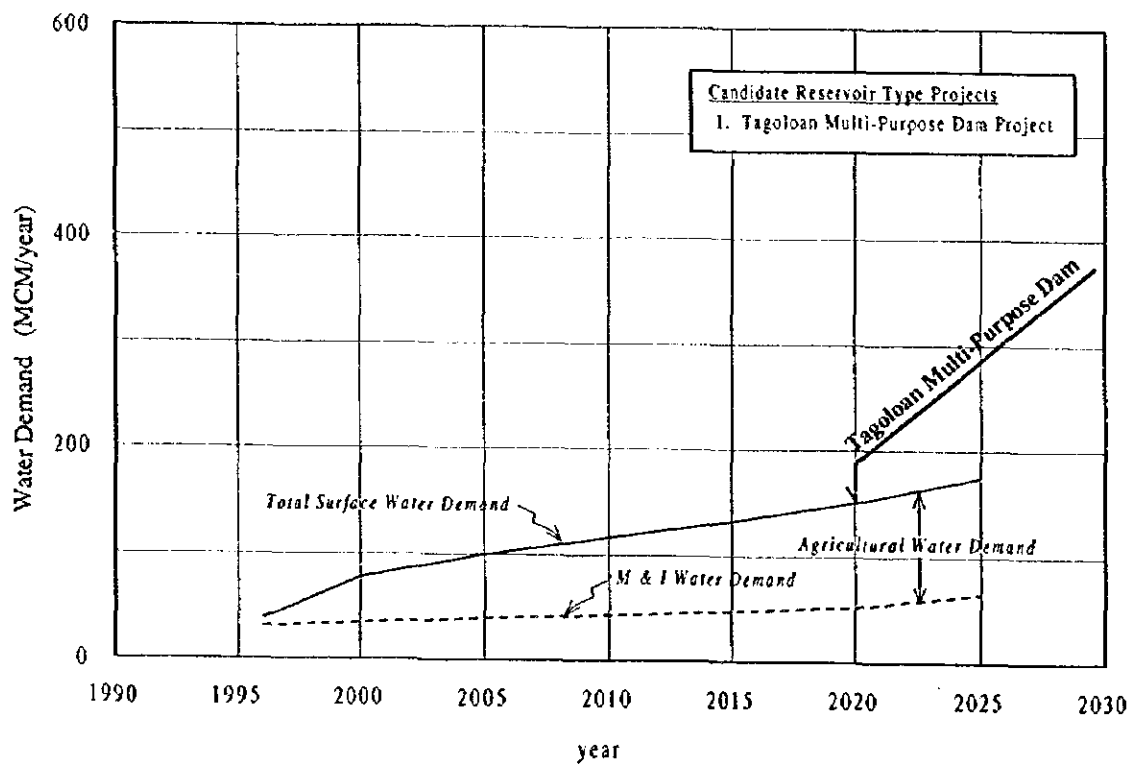


図-65 高位経済成長下でのタゴロアン流域の表流水需要

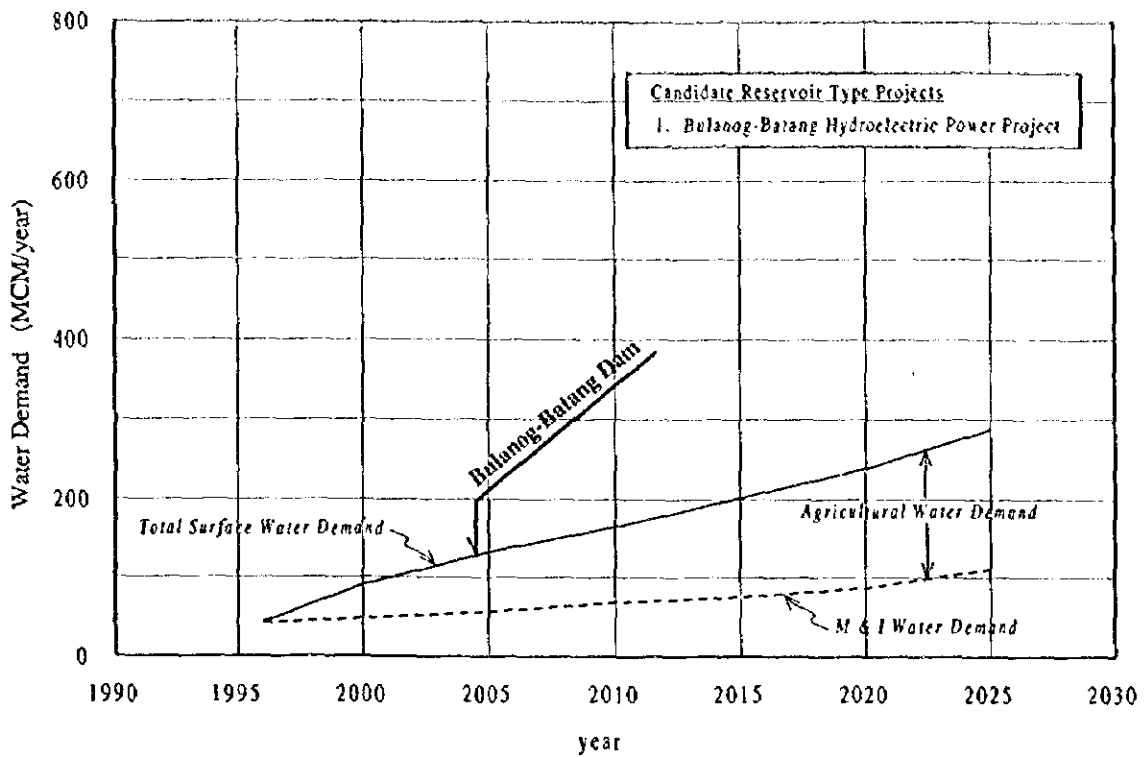


図-66 高位経済成長下でのカガヤン・デ・オロ流域の表流水需要

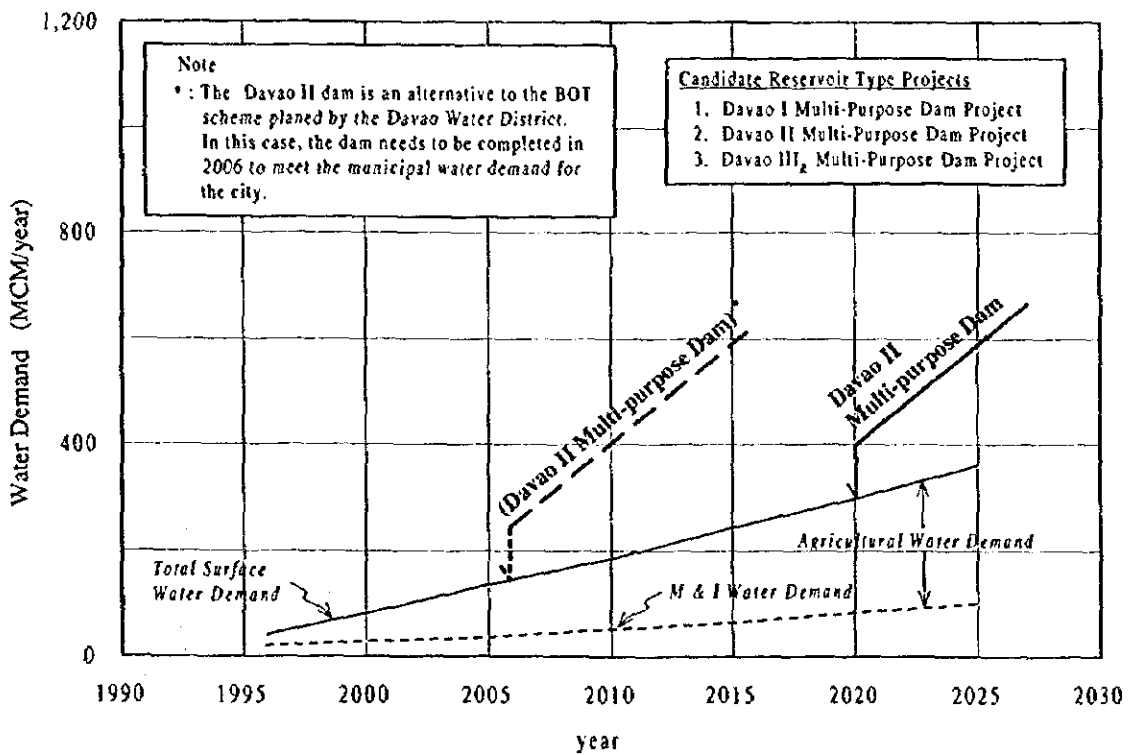


図-67 高位経済成長下でのダバオ流域の表流水需要

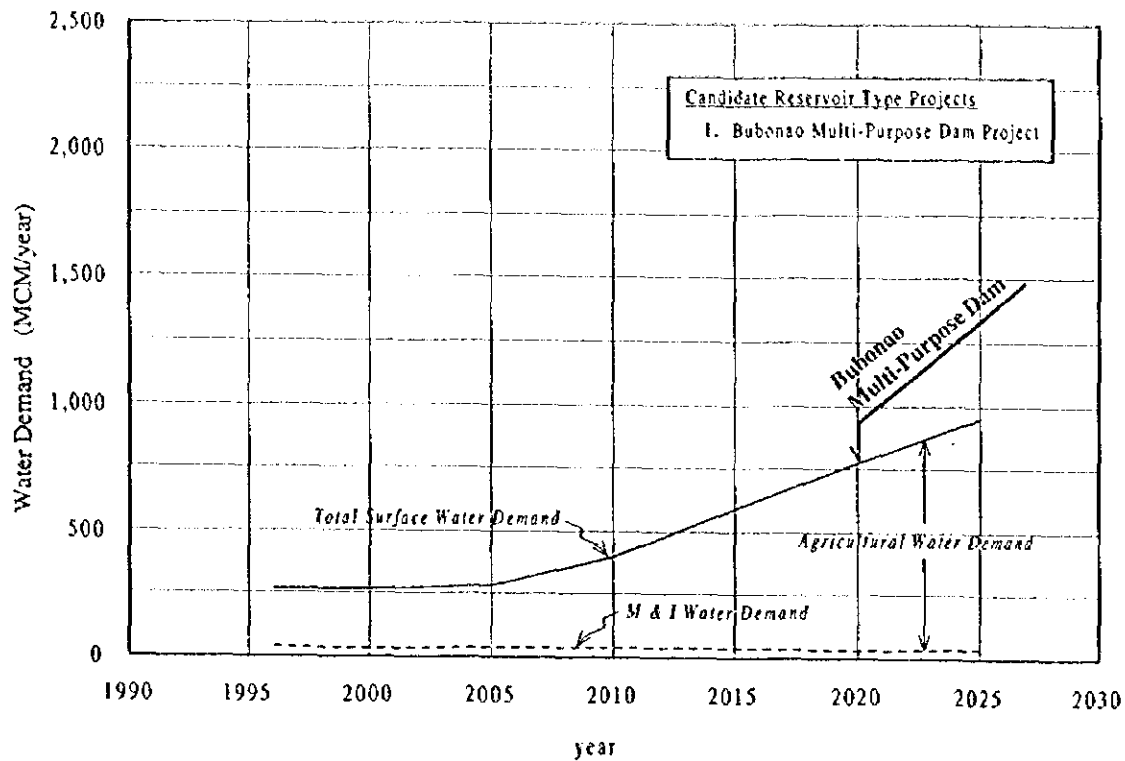


図-68 高位経済成長下でのタグム-リプガノン流域の表流水需要

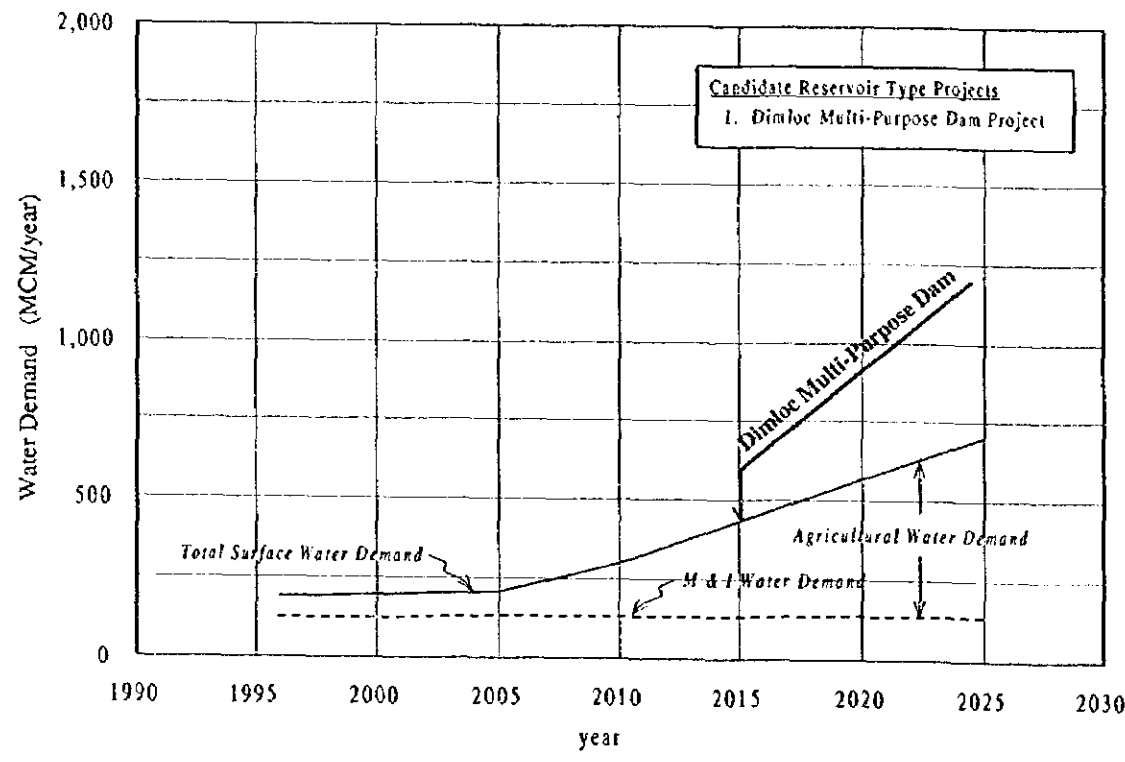


図-69 高位経済成長下でのプアヤン-マルンガン流域の表流水需要

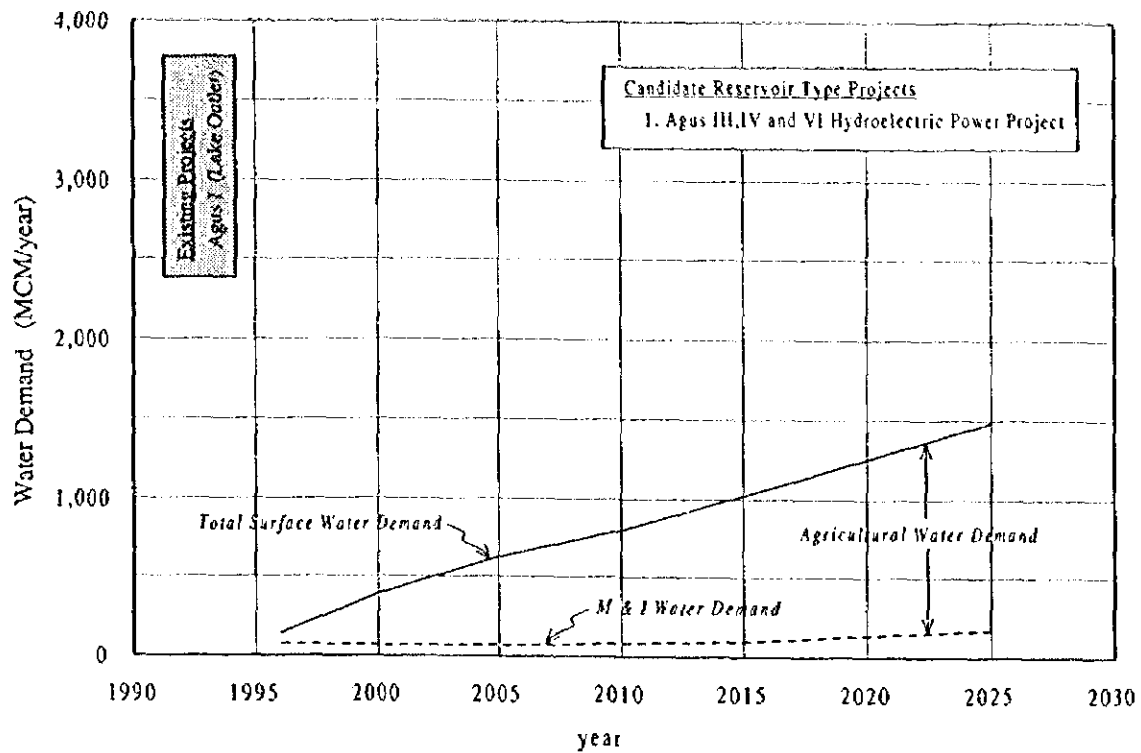


図-70 高位経済成長下でのアグス流域の表流水需要

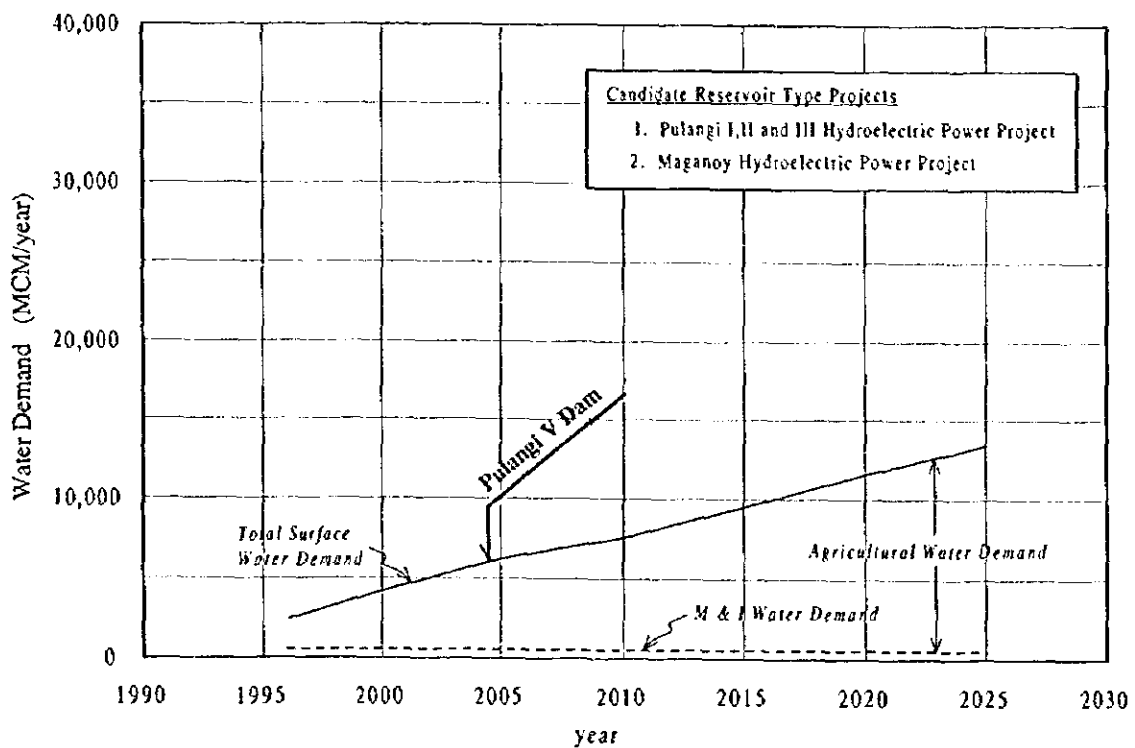


図-71 高位経済成長下でのミンダナオ流域の表流水需要

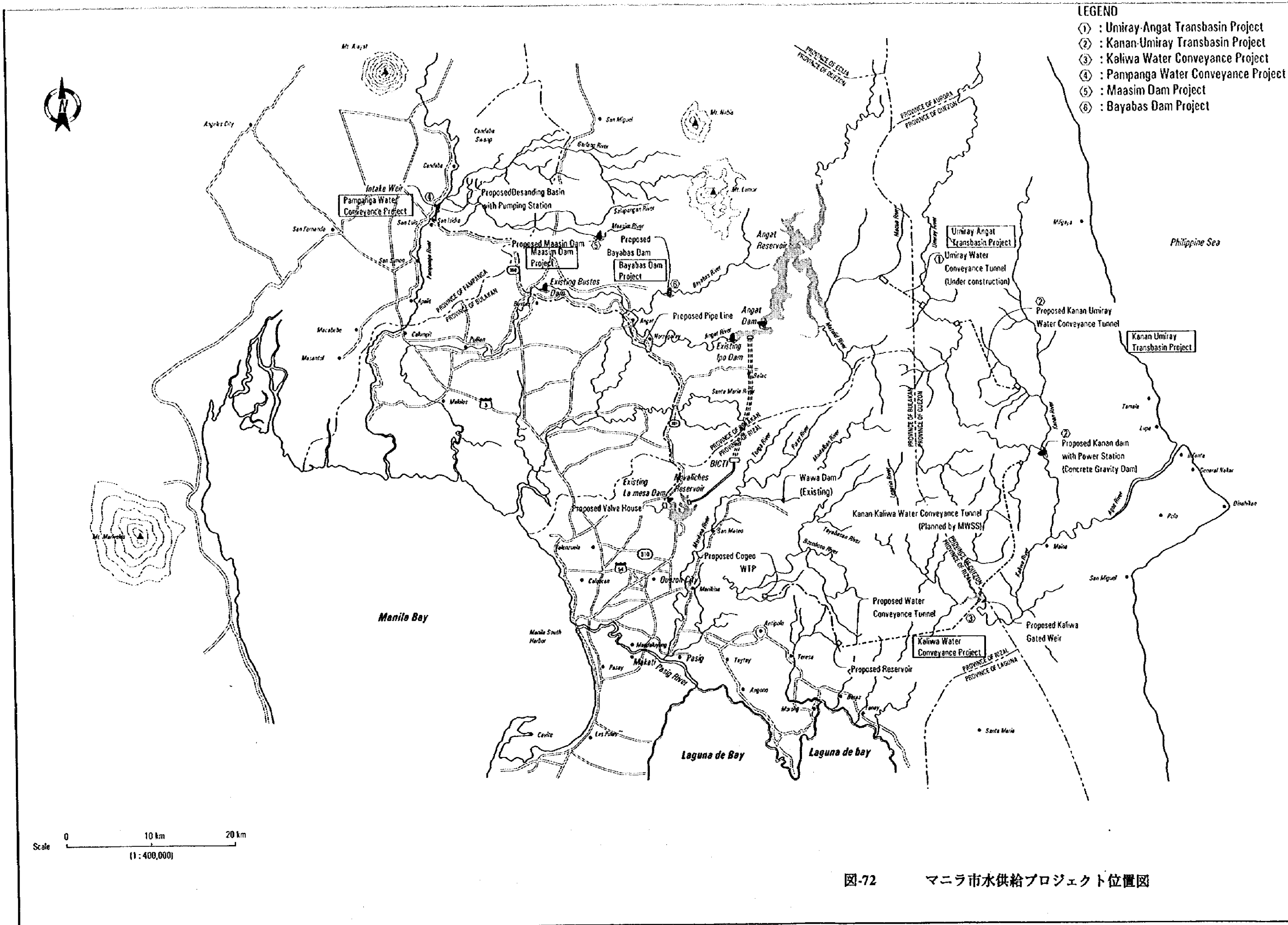
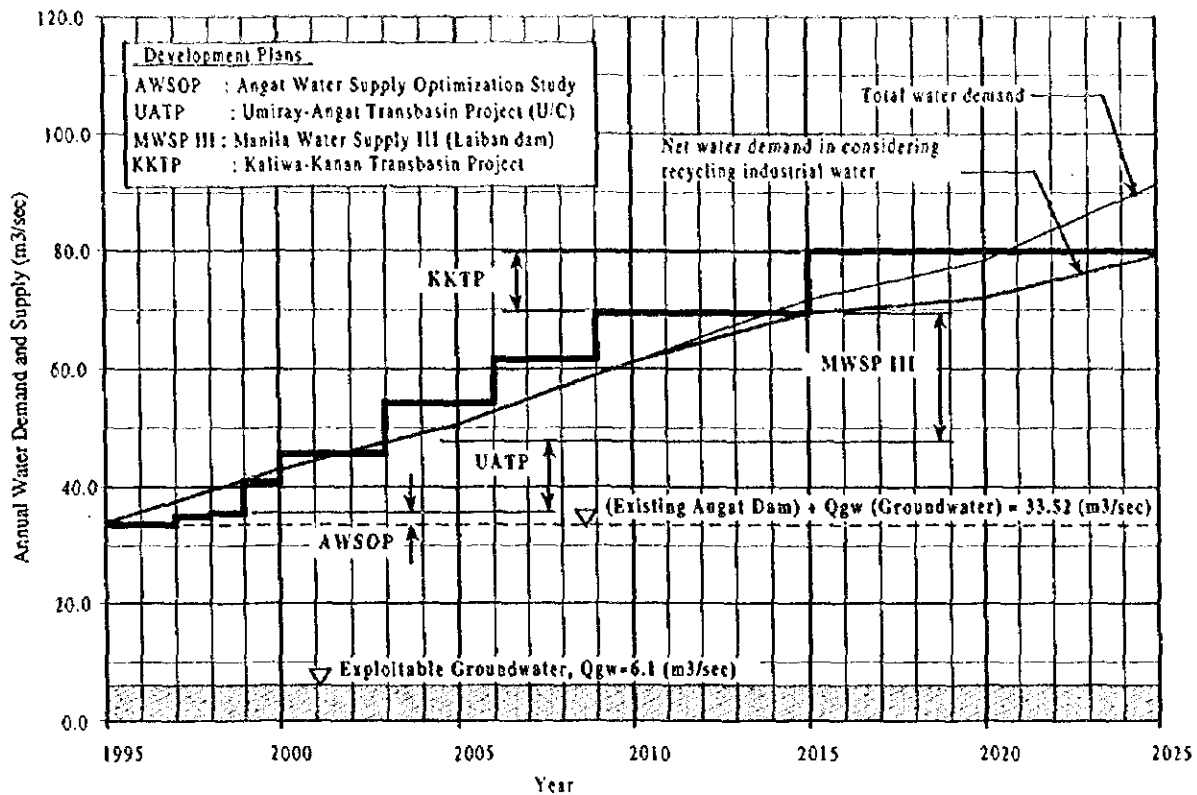
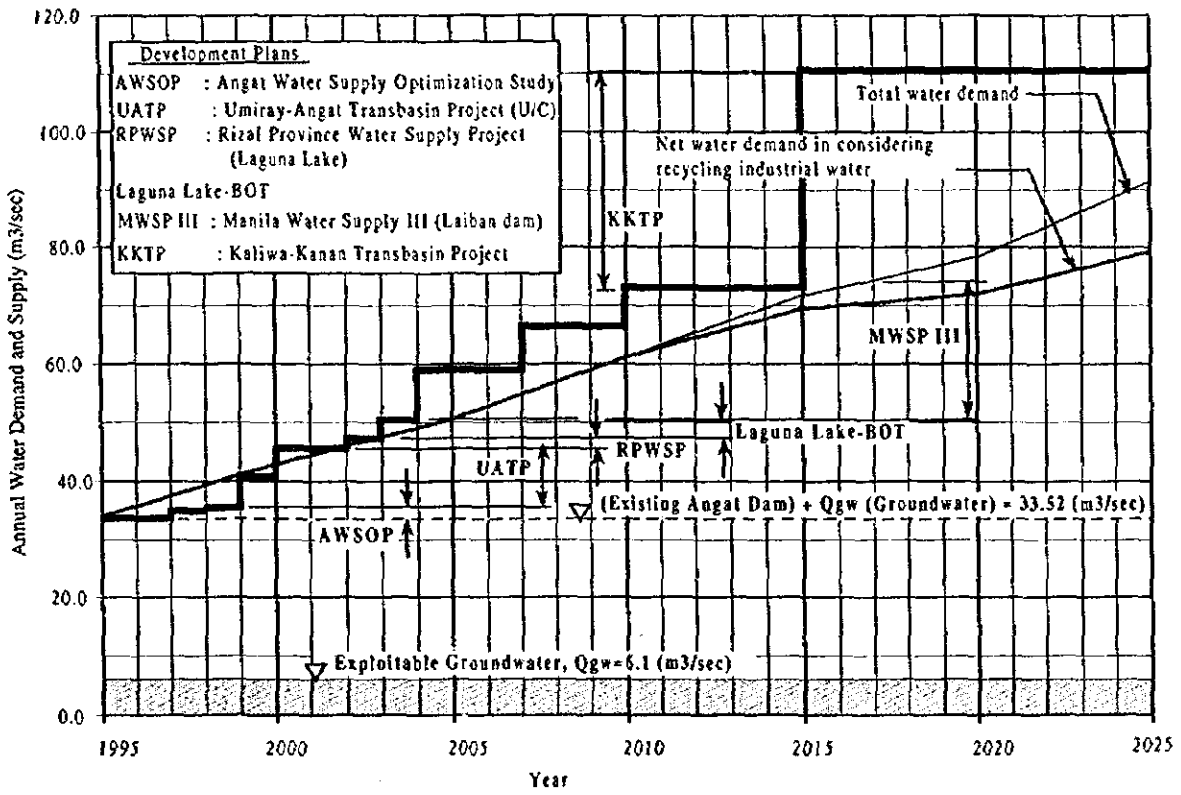


図-72 マニラ市水供給プロジェクト位置図



Scenario-1 (1/2) : Development Plan Proposed in the Study on Water Supply and Sewerage Master Plan of Metro Manila (February 1996)



Scenario-1 (2/2) : Latest Development Plan Proposed by MWSS

図-73 マニラ市上水供給プロジェクトの実施計画 (シナリオ-1)

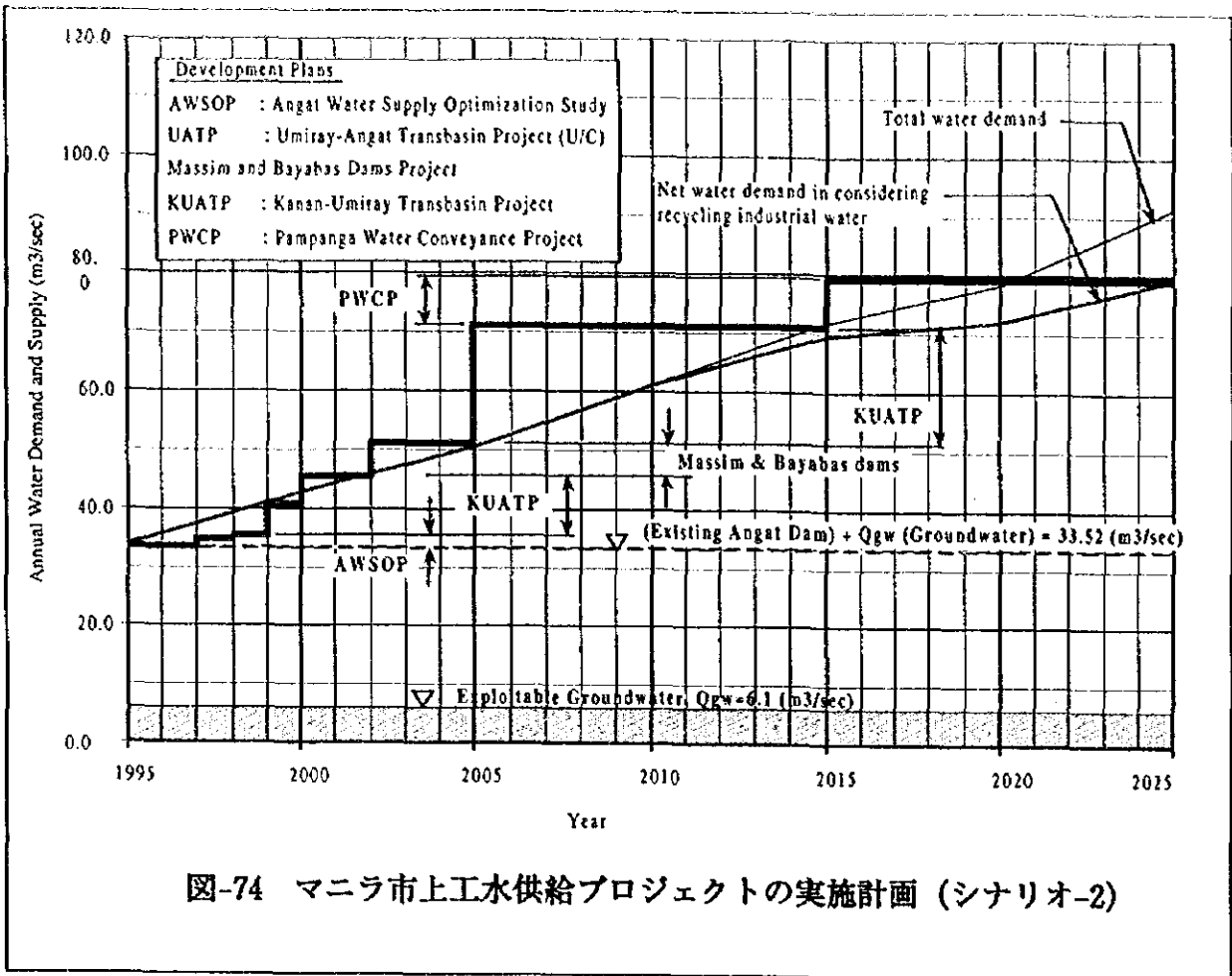


図-74 マニラ市上工水供給プロジェクトの実施計画 (シナリオ-2)

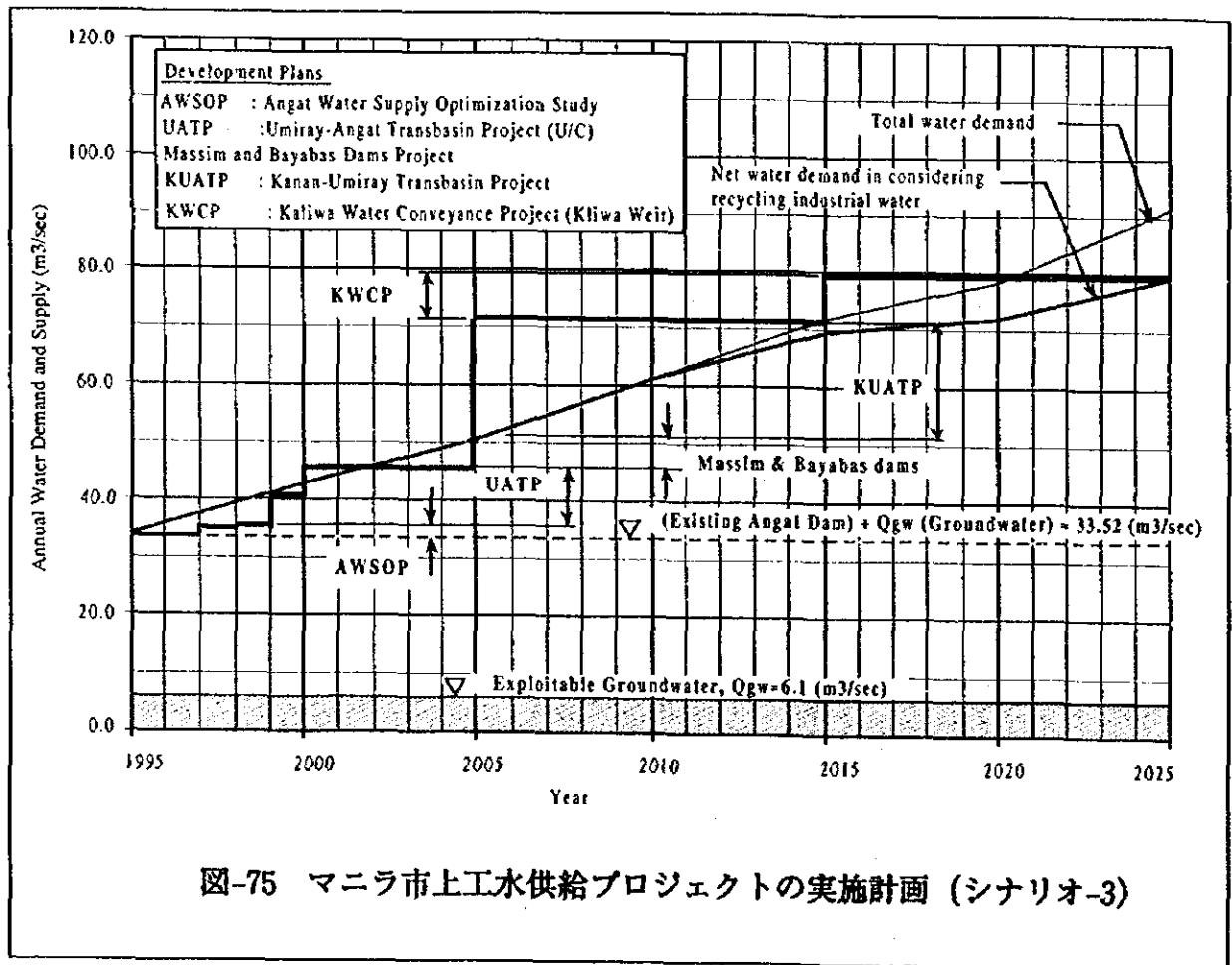


図-75 マニラ市上工水供給プロジェクトの実施計画 (シナリオ-3)

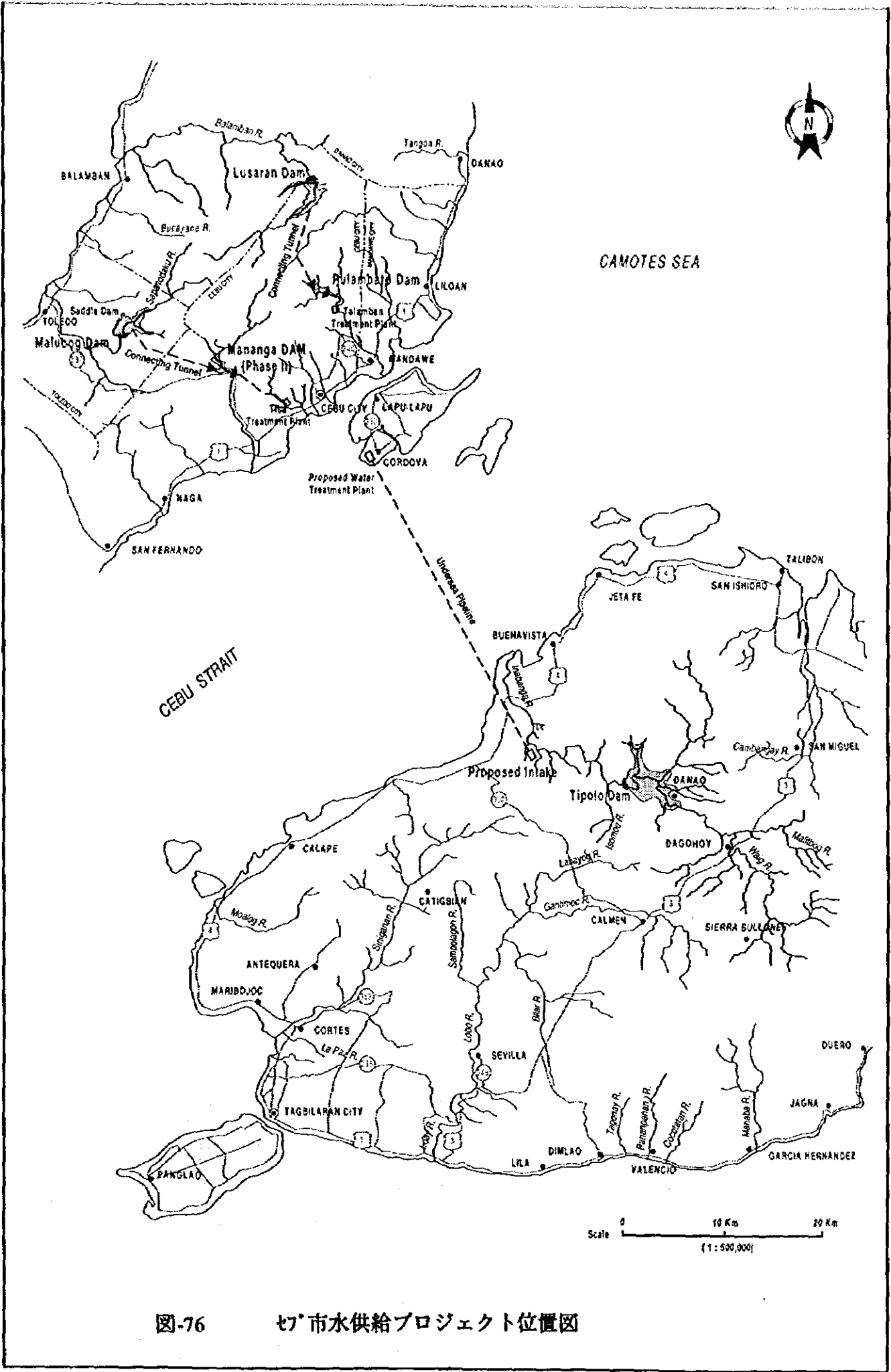
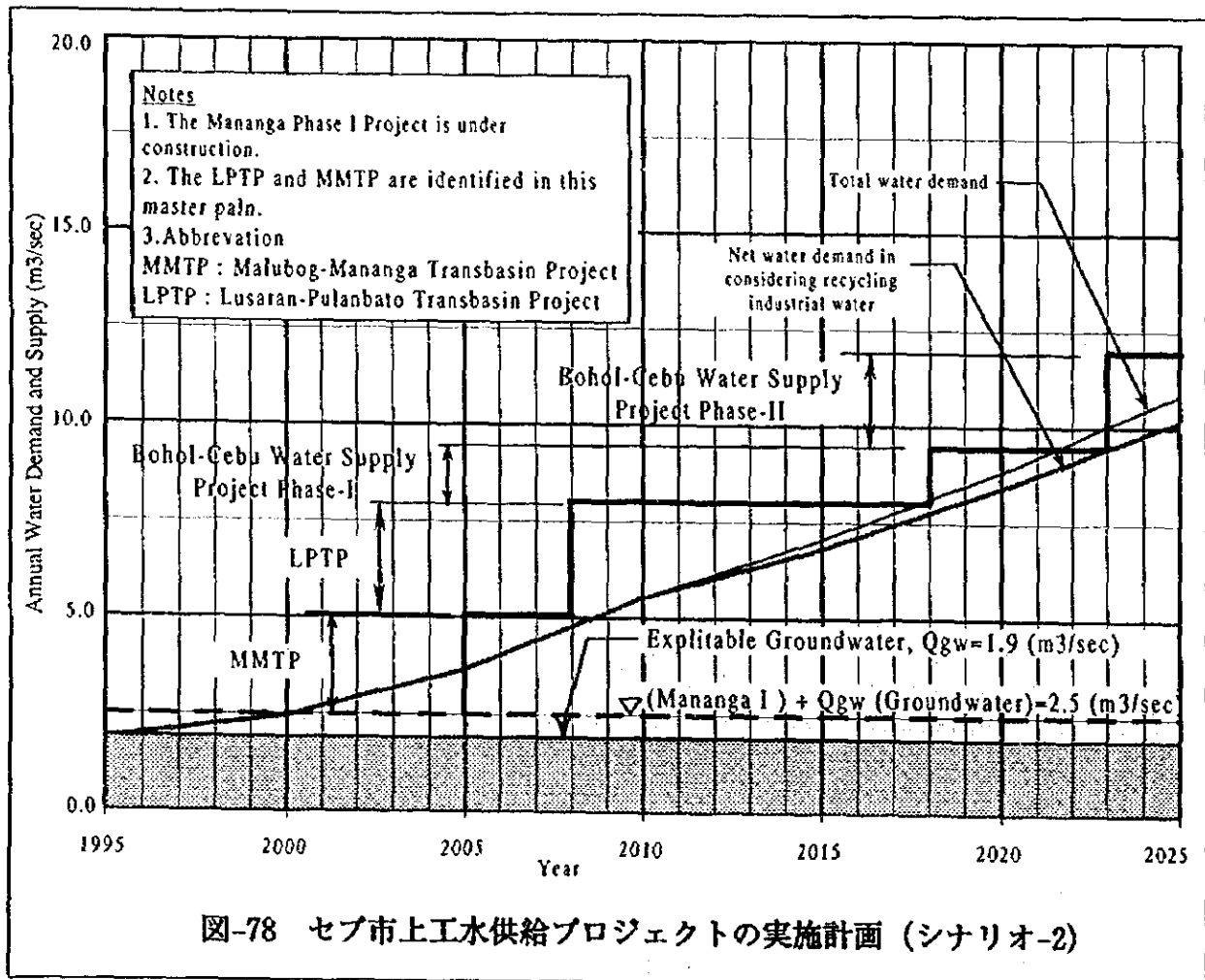
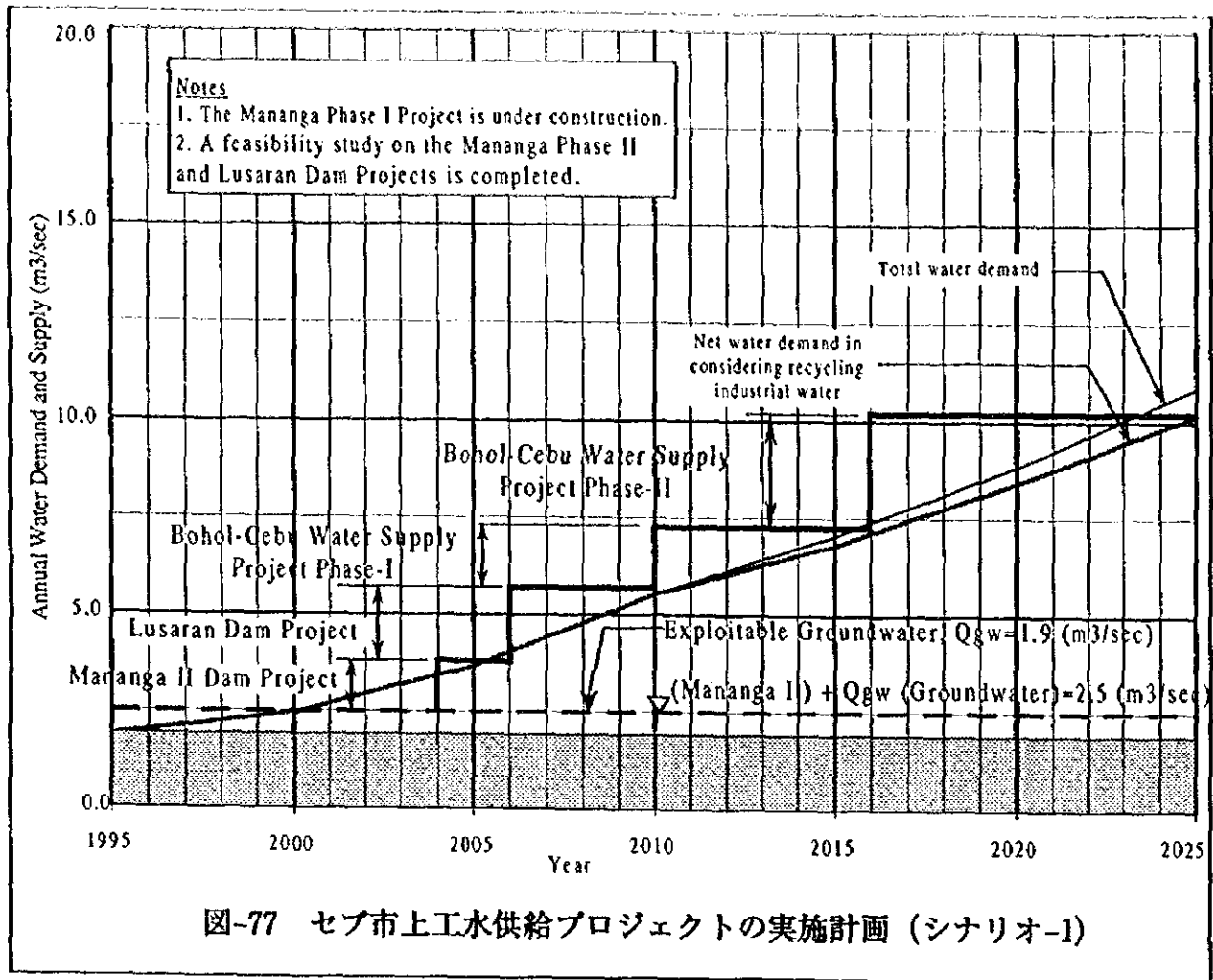


图-76 七市水供給プロジェクト位置図



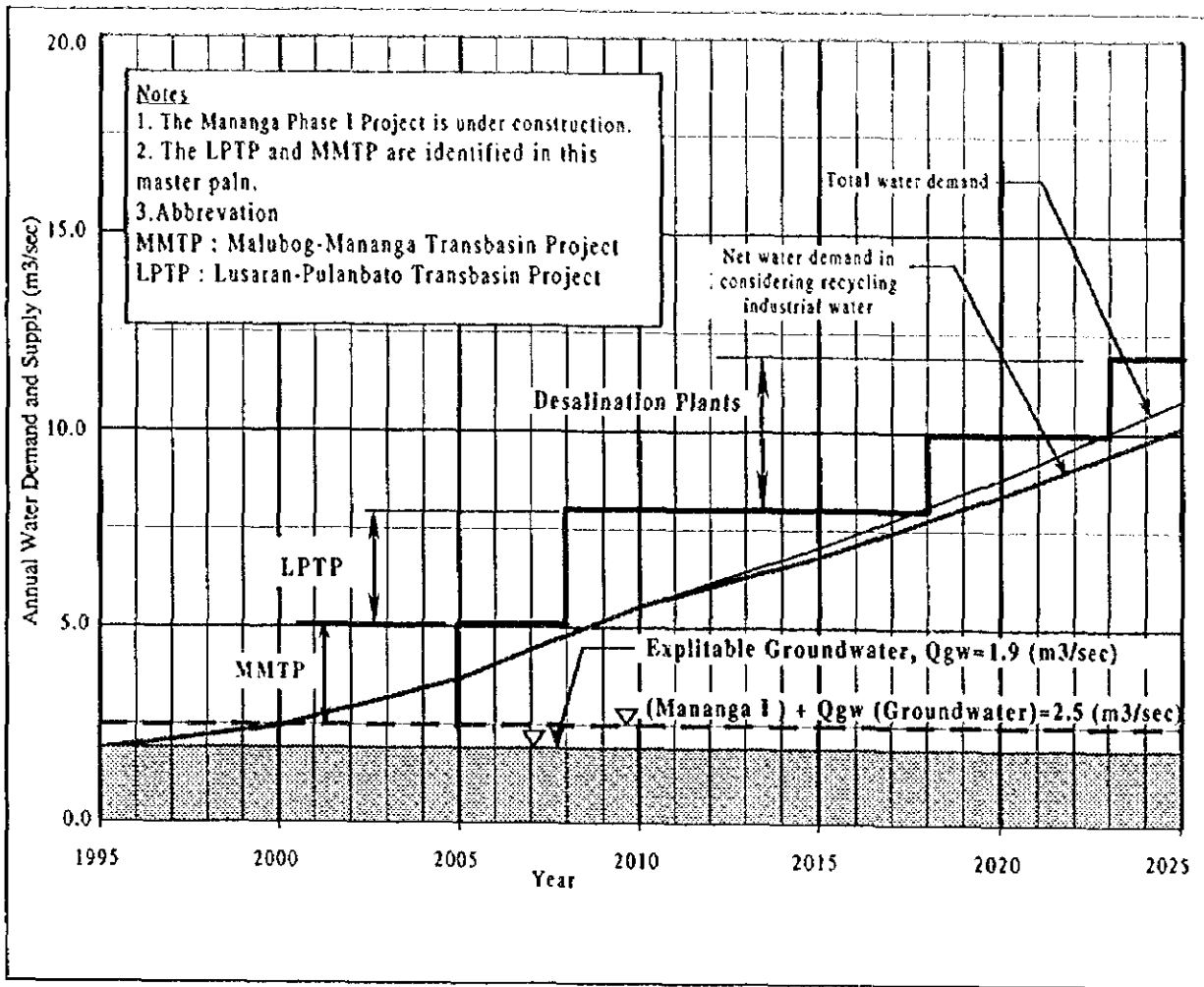
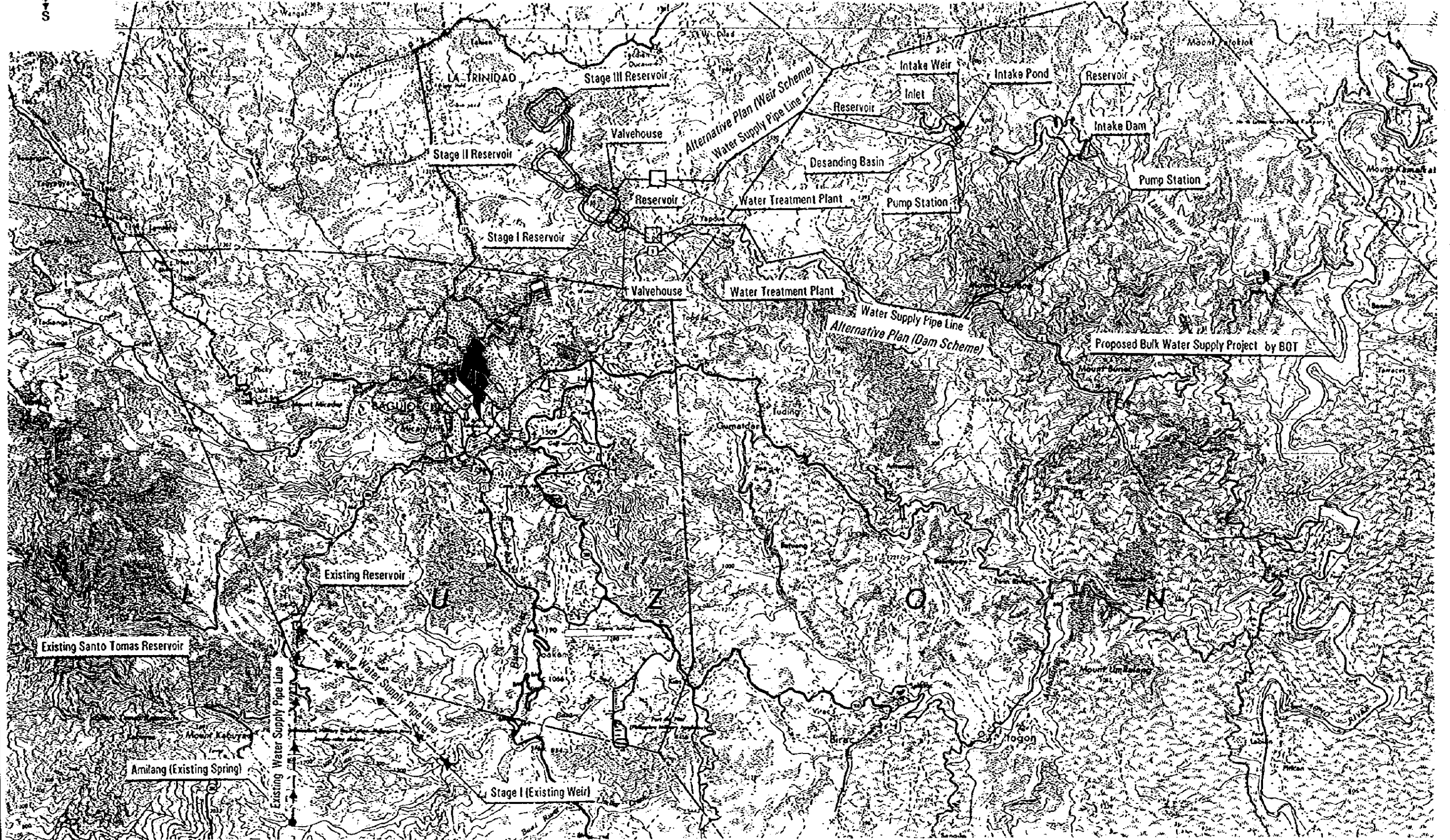


図-79 セブ市上工水供給プロジェクトの実施計画 (シナリオ-3)



Scale 0 1km 2km 3km
(1:60,000)

図-80 バギオ市水供給プロジェクト位置図

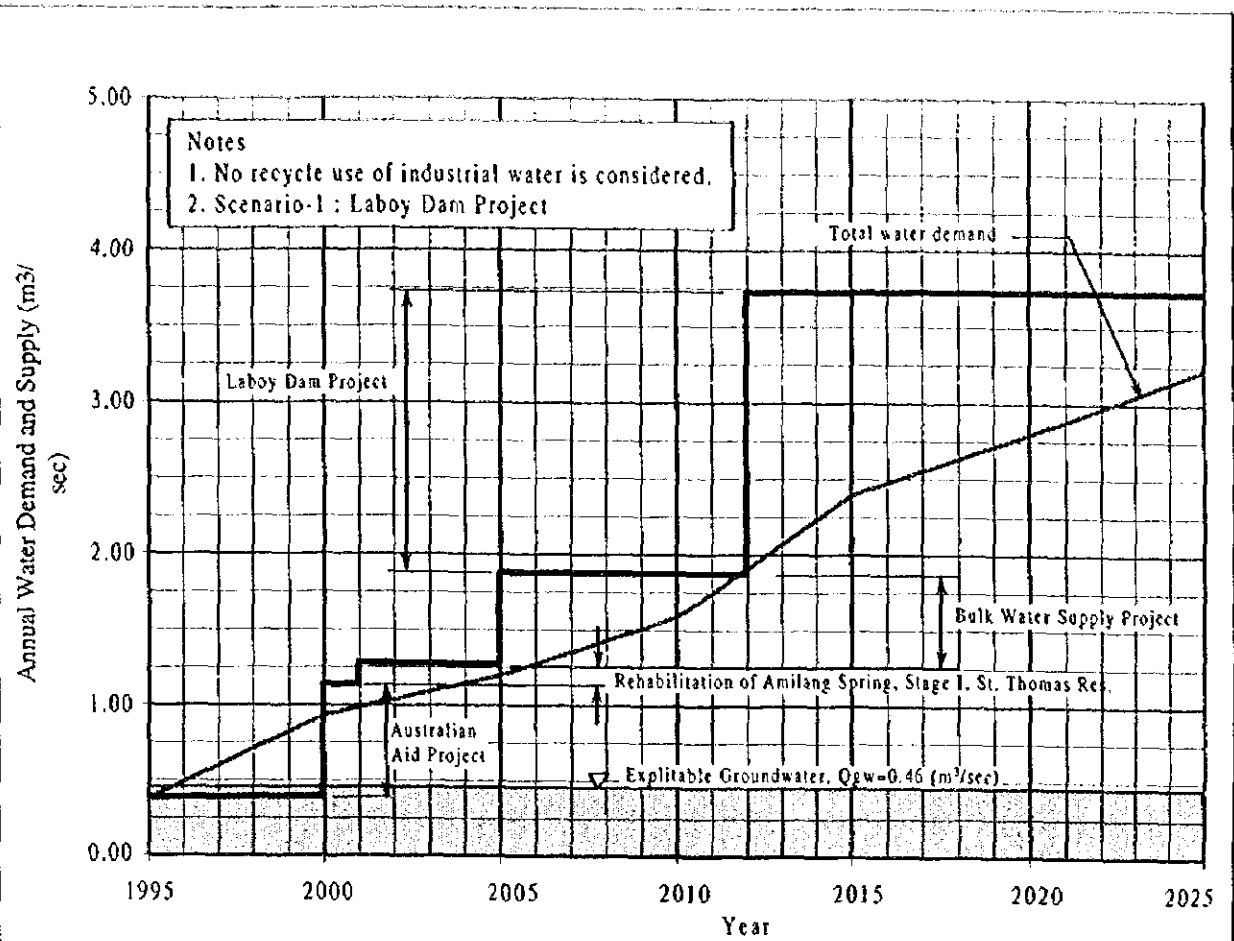


図-81 バギオ市上工水供給プロジェクトの実施計画 (シナリオ-1)

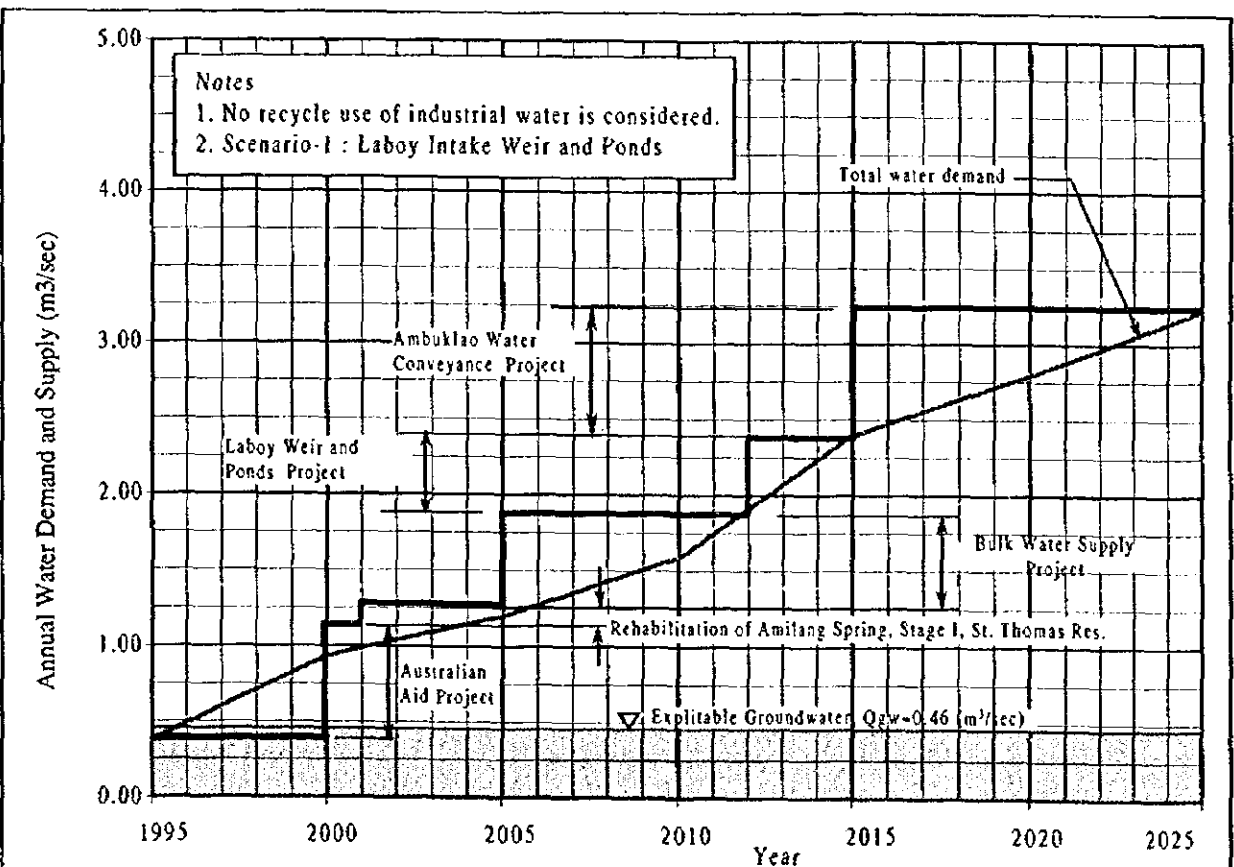


図-82 バギオ市上工水供給プロジェクトの実施計画 (シナリオ-2)

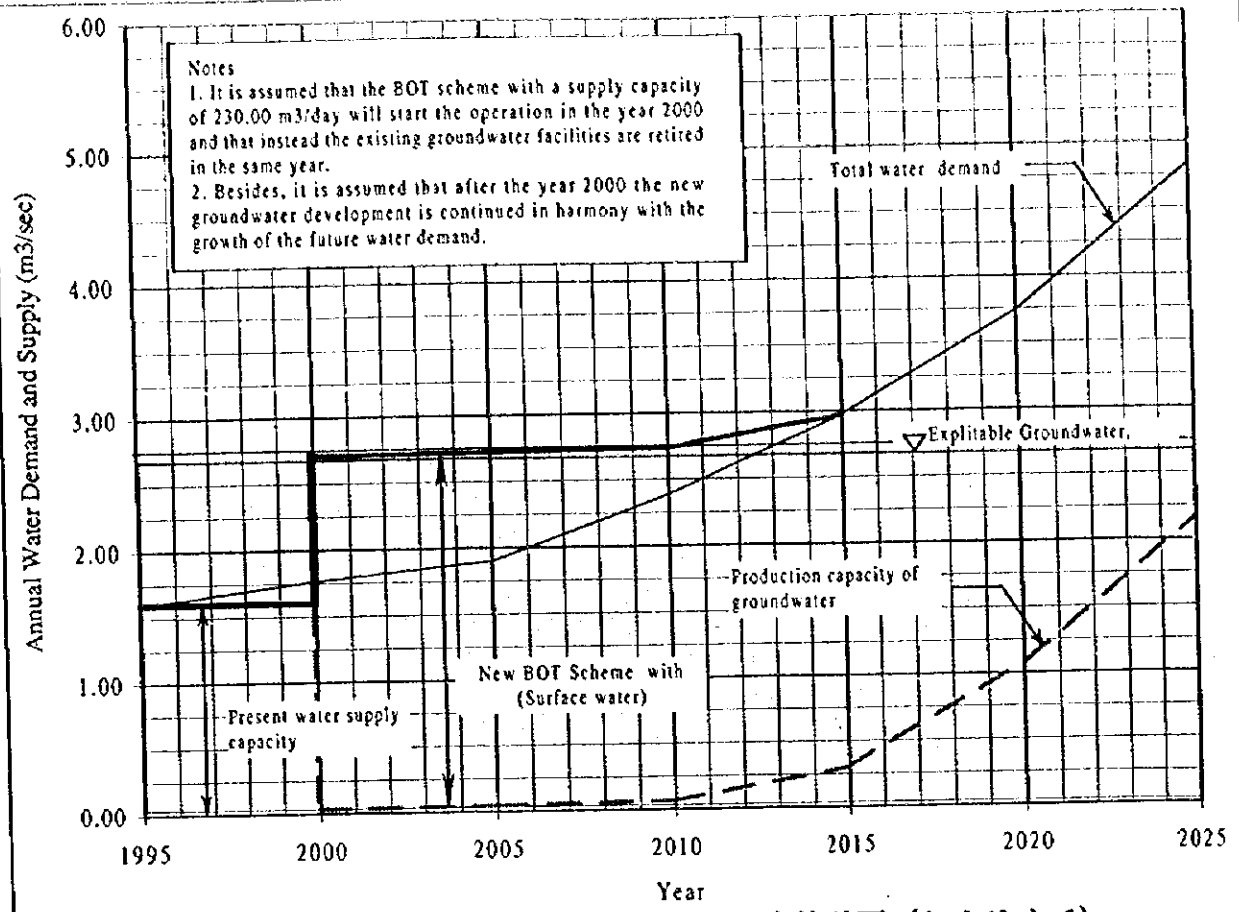


図-84 ダバオ市上工水供給プロジェクトの実施計画 (シナリオ-1)

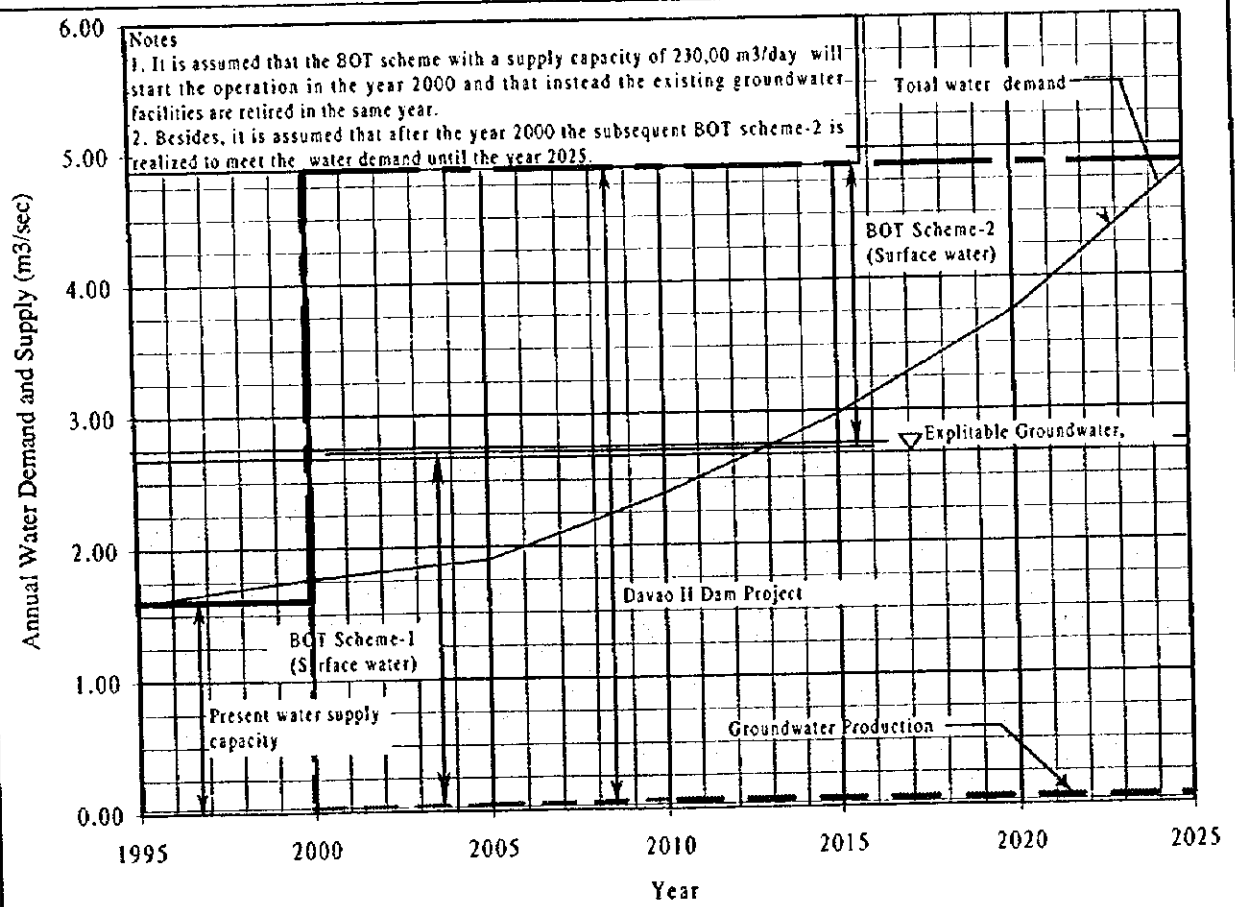
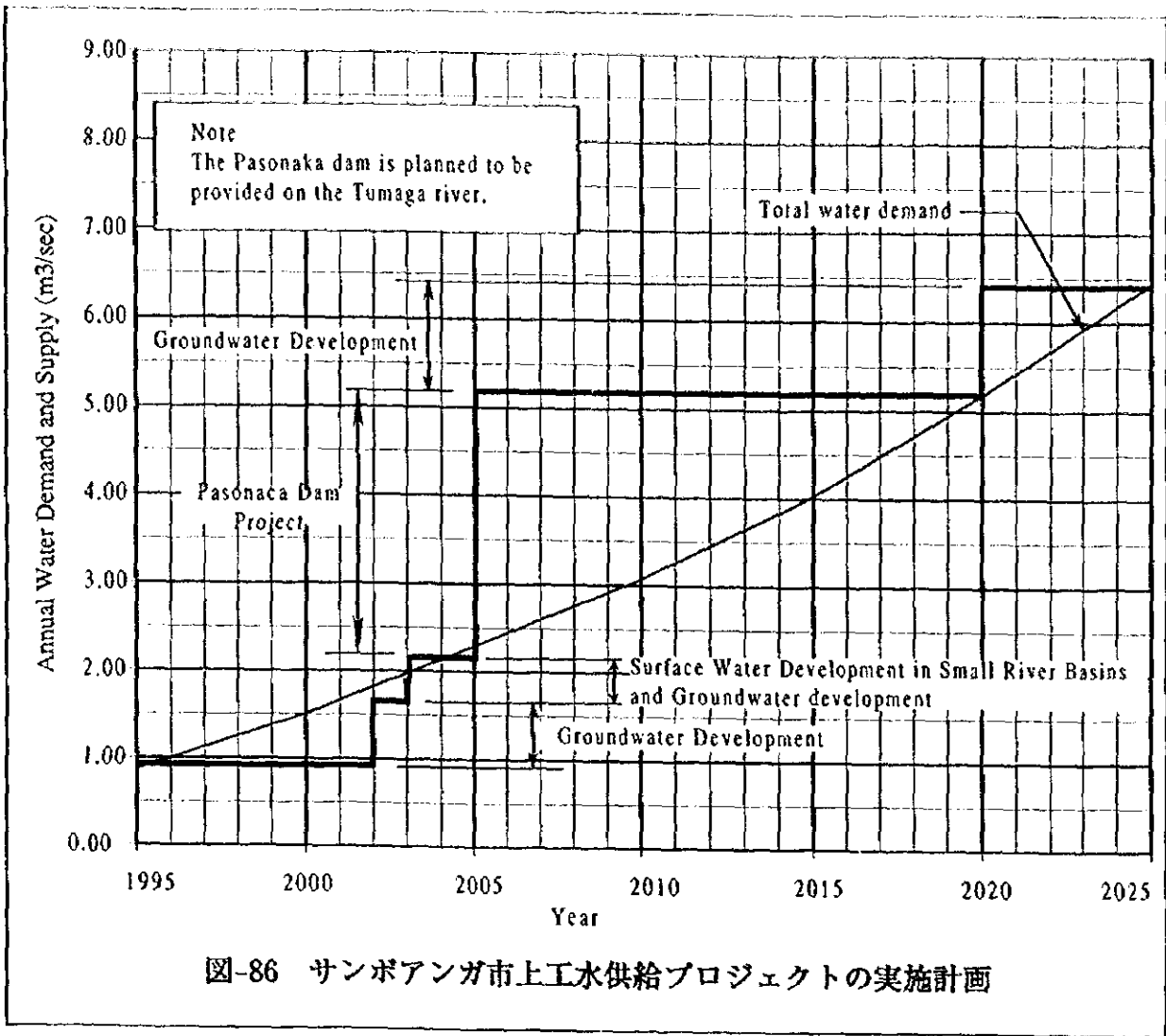


図-85 ダバオ市上工水供給プロジェクトの実施計画 (シナリオ-2)



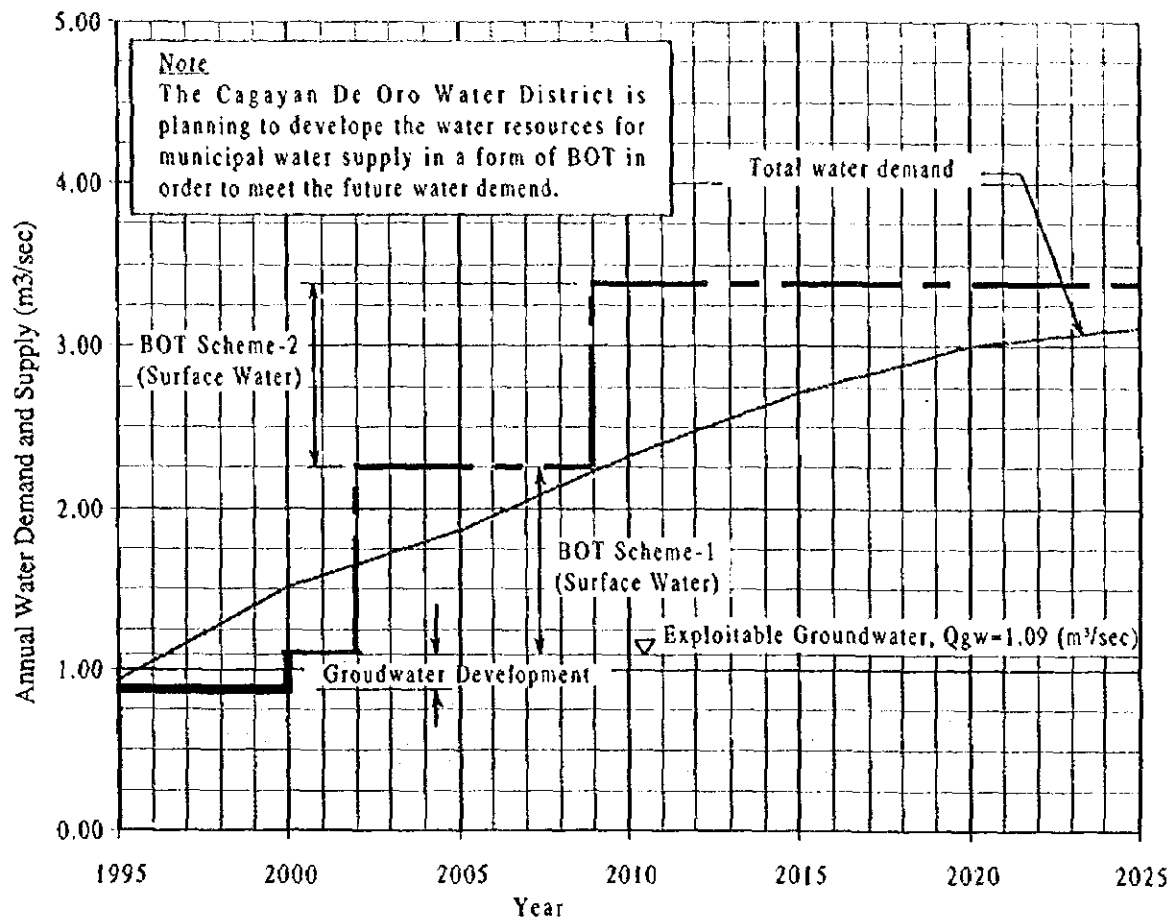


図-87 カガヤン・デ・オロ市上工水供給プロジェクトの実施計画

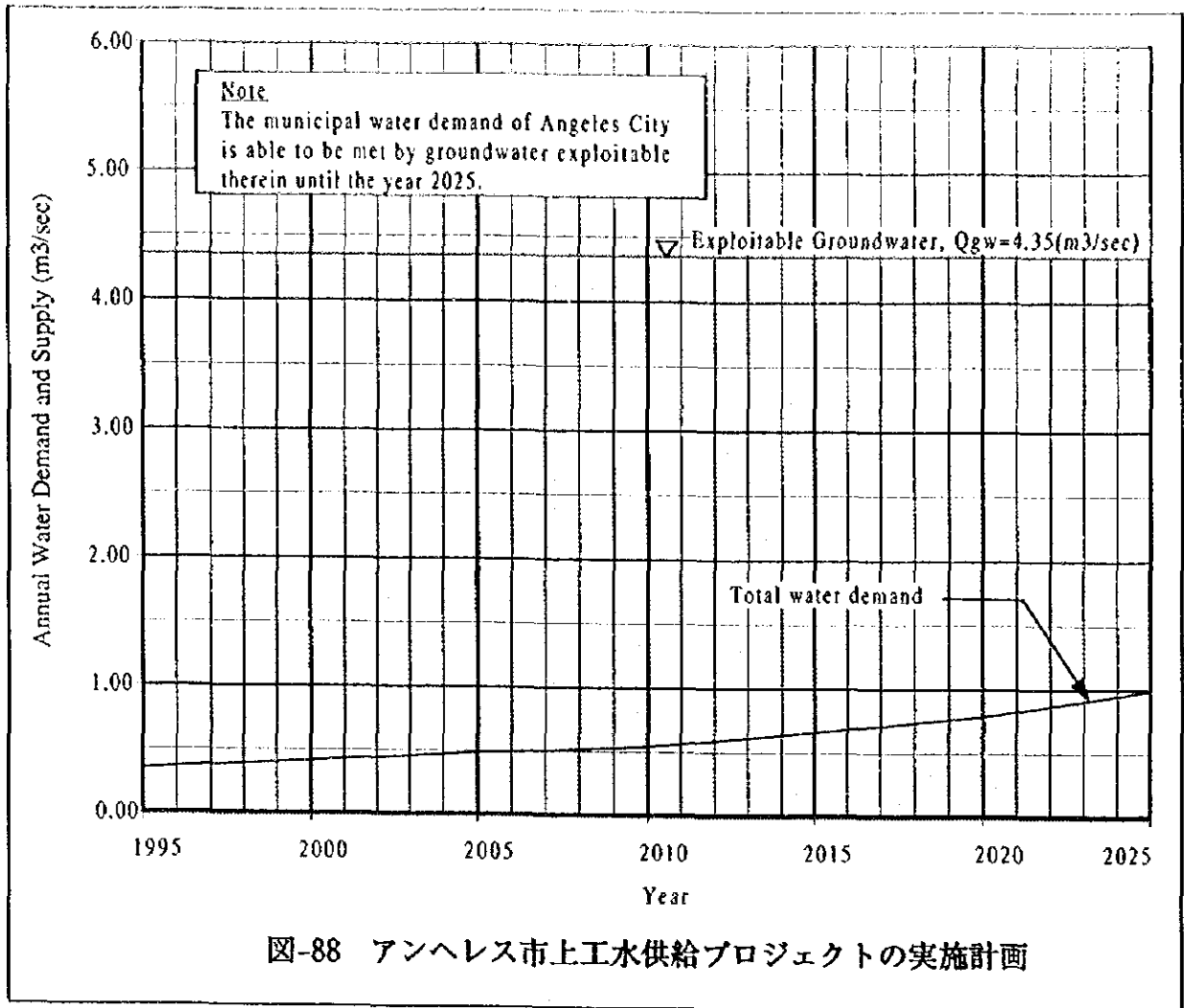


図-88 アンヘレス市上工水供給プロジェクトの実施計画

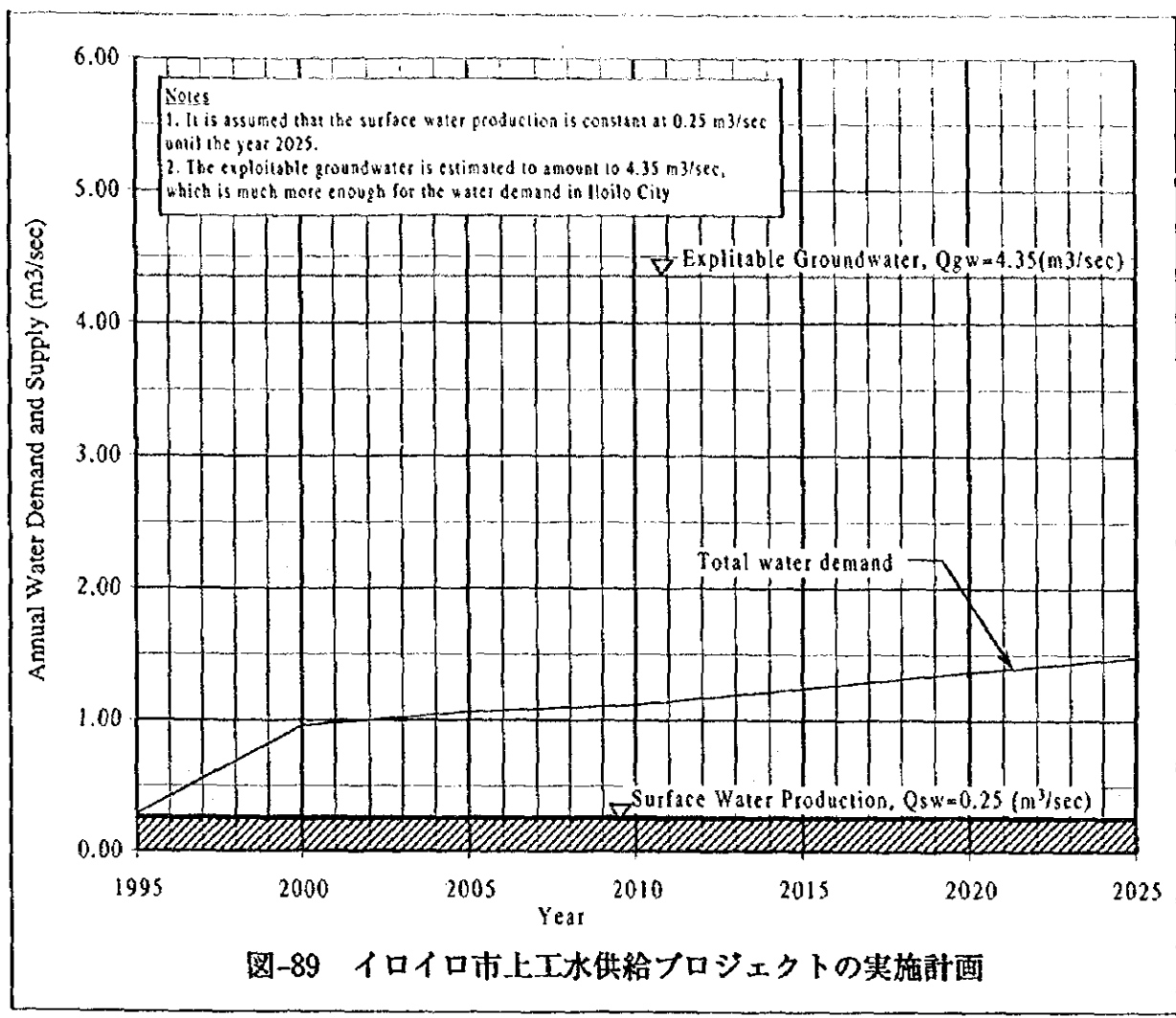
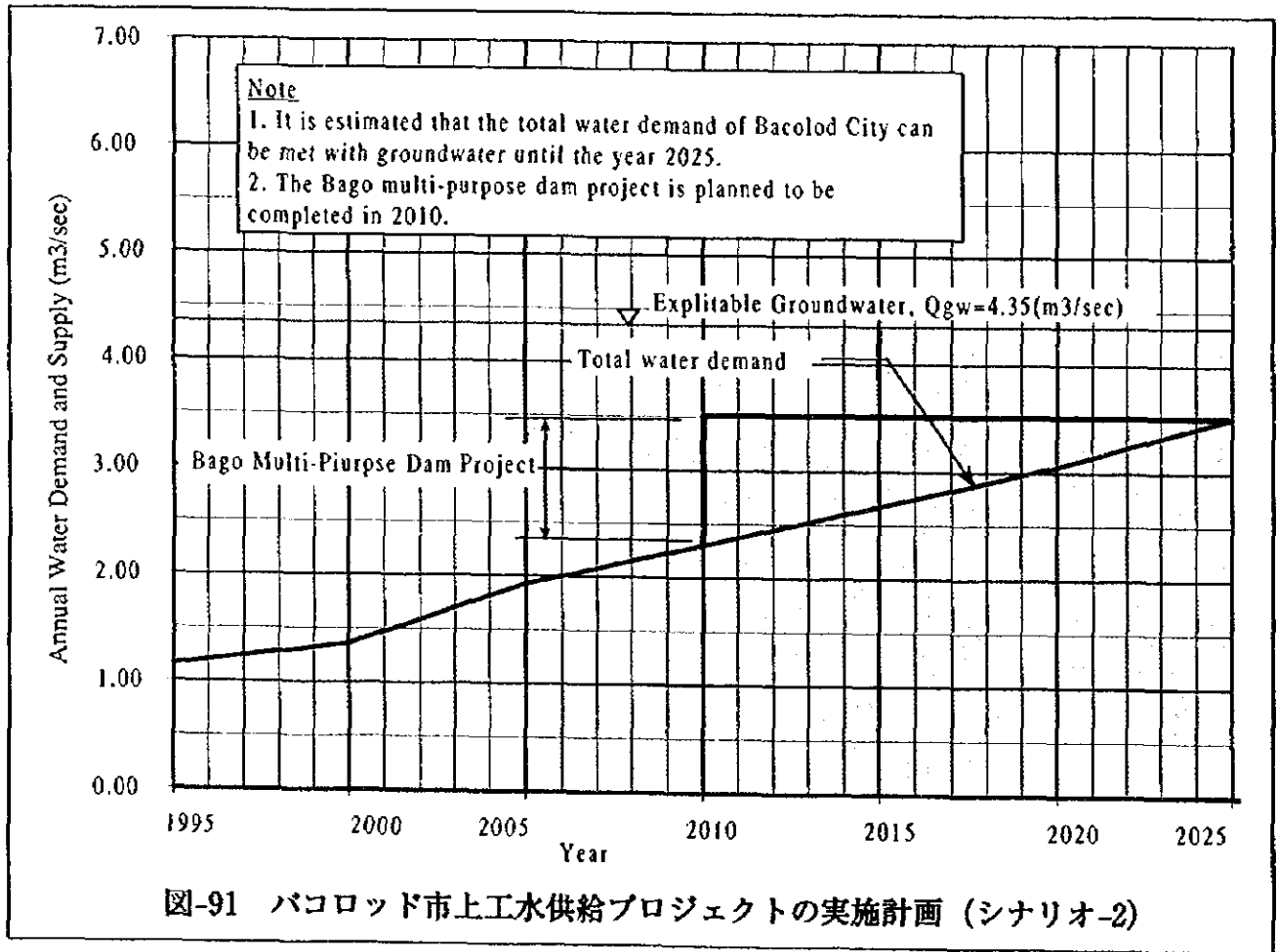
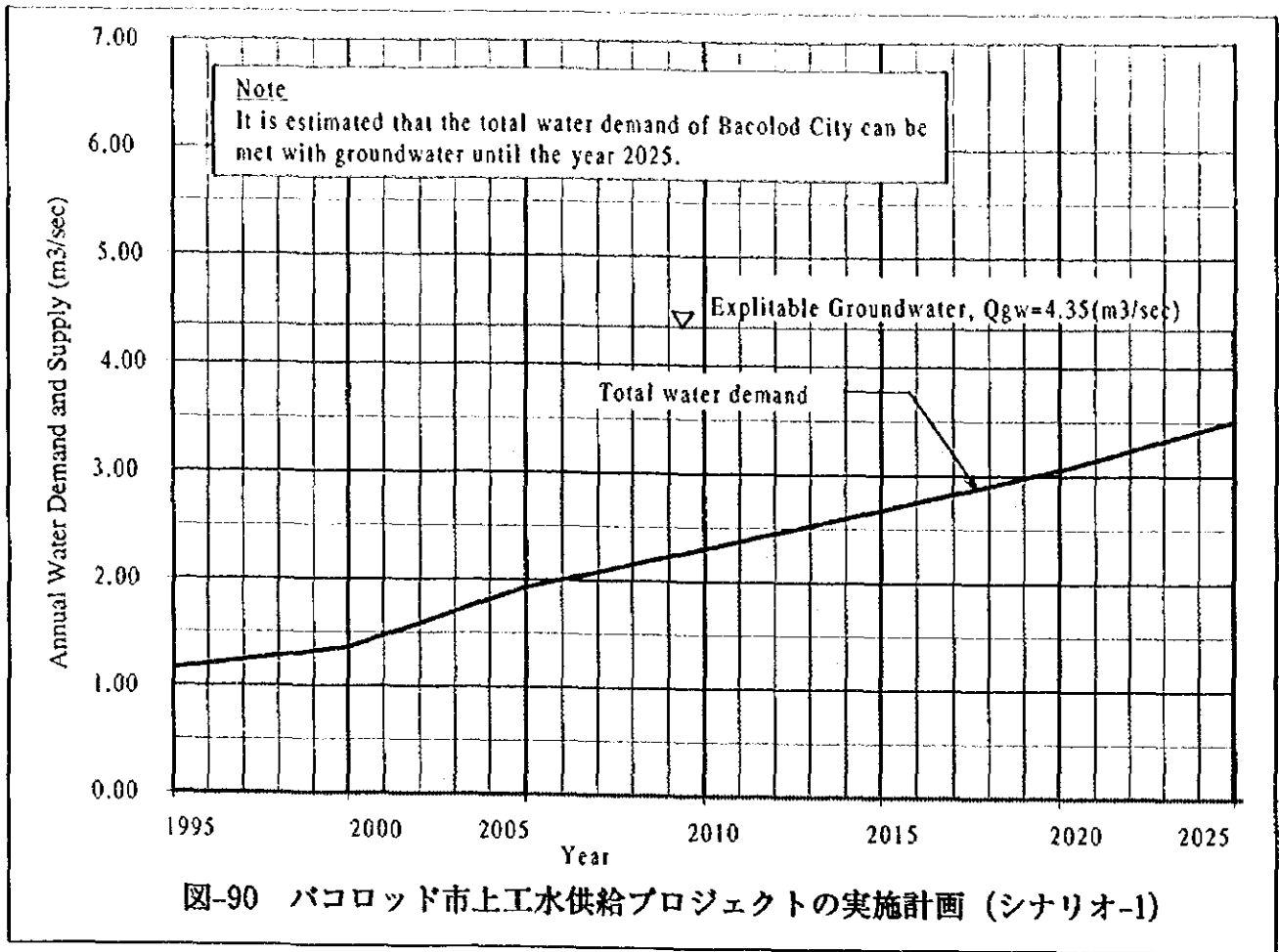


図-89 イロイロ市上工水供給プロジェクトの実施計画



付属資料

付属資料

- 付属資料－1 本調査関連の委員会及びカウンターパートのメンバーリスト
- 付属資料－2 調査団員のリスト
- 付属資料－3 貯水池式ダムプロジェクトの実施計画
- 付属資料－4 主要都市に対する水供給プロジェクトの実施計画
- 付属資料－5 灌漑プロジェクトの実施計画

付属資料-1 本調査関連の委員会及びカウンターパートのメンバーリスト

A. JICA ADVISORY COMMITTEE

(i) Before March 1998		(ii) After March 1998	
Position	Name	Position	Name
Team Leader	Mr. Kazuyuki Sakanoi	Team Leader	Mr. Shigeo Ochi
Member	Mr. Katsunori Takagi	Member	Mr. Takahisa Hikichi
Member	Mr. Yuji Watanabe	Member	Mr. Yuji Watanabe
JICA Coordinator	Mr. Katsuyoshi Saito	JICA Coordinator	Mr. Katsuyoshi Saito

B. STEERING COMMITTEE

Agency	Position	Name
National Water Resources Board (NWRB)	Chairman	Dir. Luis M. Sosa Executive Director
National Economic and Development Authority (NEDA)	Member	Dir. Ruben S. Reinoso Director
Department of Public Works and Highways (DPWH)	-do-	Mrs. Helen G. Marvilla OIC, Project Manager
Department of Environment and Natural Resources (DENR)	-do-	Mr. Jose D. Malvas, Jr Director
Department of Health (DOH)	-do-	Dr. Mario Villaverde Director
Department of Interior and Local Government (DILG)	-do-	Mr. Normando J. Toledo Director, OPDS
Department of Agriculture (DA)	-do-	Dir. Rogelio Concepcion Director
Department of Trade and Industry (DTI)	-do-	Mr. Celestiano B. Santiago OIC, Director
National Irrigation Administration (NIA)	-do-	Mr. Edilberto B. Punzal Manager
Local Water Utilities Administration (LWUA)	-do-	Mr. Edwin Ruiz Department Manager
Metropolitan Waterworks and Sewerage System (MWSS)	-do-	Mr. Francisco Arellano Department Manager
National Power Corporation (NPC)	-do-	Mr. Emmanuel E. Antiola OIC, Division Manager
Presidential Task Force on Water Resources Mgt.	-do-	Atty. Mary Mai Flor Exec. Director
Bureau of Research & Standard, DPWH	-do-	Mr. Raul C. Asis Director

C. TECHNICAL WORKING GROUP / COUNTERPART PERSONNEL.

Designation	Name	Agency	
Team Leader	Melchor O. Baltazar	NWRB	Full-time assignment
Water Resources Planner	Lope R. Villenas	NWRB	-do-
Hydrologist	Jorge M. Estioko	NWRB	-do-
	Antonio V. Molano, Jr.	DPWH	Part-time assignment
Hydrogeologist	Isidra D. Penaranda	NWRB	Full-time assignment
Water Demand	Emmie L. Ruales	NWRB	-do-
Forecasting Planner (Industrial Water)	Arlene C. Diaz	NWRB	-do-
	Marietta Flores	MWSS	Part-time assignment
Water Demand	Pacita F. Barba	NWRB	Full-time assignment
Forecasting Planner (Irrigation)	Evelyn V. Ayson	NWRB	-do-
	Silvino Alonzo, Jr.	NIA	Part-time assignment
Groundwater	Jesusa T. Roque	NWRB	Full-time assignment
Resource Planner	Higino C. Mangosing, Jr.	NWRB	-do-
	Jose Rene Rancesvalle	LWUA	Part-time assignment
Dam Engineer	Luis S. Rongavilla	NWRB	Full-time assignment
	Romualdo T. Beltran	NPC	Part-time assignment
Database Specialist	Susan P. Abano	NWRB	Full-time assignment
	Ma. Charina M. Gonzales	NWRB	-do-
	Ma. Victoria M. Astraquillo	NWRB	-do-
Construction Planner	Leonila A. Cagatin	NWRB	-do-
	Filomeno Ventura	NIA	Part-time assignment
Institutional Planner	Jesus G. de Leon	NWRB	Full-time assignment
	Elena Luz J. Alojipan	NWRB	-do-
	Rogelio B. Ocampo	DILG	Part-time assignment
Socio-economist	Florimel R. Balbedina	NWRB	Full-time assignment
	Francis Hilarie	NWRB	-do-
	Librado F. Quitariano	NEDA	Part-time assignment
Environmentalist/Water Quality Analyst	Dolores S.D. Cleofas	NWRB	Full-time assignment
	Jose J. Beltran	NWRB	-do-
	Marcelino Rivera, Jr.	DENR	Part-time assignment
Coordinator	Felisa M. Mantulu	NWRB	Full-time assignment
	Ramon G. Romero	NWRB	-do-

D. ADMINISTRATIVE AND SUPPORTING STAFF

Designation	Name	Agency	
Administrative & Financial Officer	Belen T. Tormon	NWRB	Full-time assignment
Accountant	Marilyn T. San Pedro	NWRB	-do-
Budget Officer	Elizabeth P. Sepina	NWRB	-do-
Personnel Officer	Normita G. Flores	NWRB	-do-
Disbursing Officer	Remigia V. Beadoy	NWRB	-do-
Supply Officer	Susan V. Tenorio	NWRB	-do-
Data Encoder/Researcher	Lilian P. Gacusan	NWRB	-do-
Data Encoder/Researcher	Milagros M. Velasco	NWRB	-do-
Data Encoder/Researcher	Josephine R. Billones	NWRB	-do-
Data Encoder/Researcher	Ma. Angelica T. Raquepo	NWRB	-do-
Tracer/Draftsman	Nora M. Andrade	NWRB	-do-
Liaison Officer	David M. de Jesus	NWRB	-do-
Secretary	Arleen E. Batac	NWRB	-do-
Machine Operator	Larry E. Aquino	NWRB	-do-
Utilityman	Alberto V. Bautista	NWRB	-do-
Driver	Isidro L. Simeon	NWRB	-do-
Driver	Eduardo F. Pacio	NWRB	-do-
Driver	Meynardo C. Balba	NWRB	-do-

付属資料--2 調査団員のリスト

Name	Organization	Position
(1) Norio Takayanagi	NK	Team Leader
(2) Toshio Katayama	NK	Water Resources Planner
(3) Harold E. Mullis	(NK)	Hydrologist
(4) Kenji Takayanagi	NJS	Hydrogeologist
(5) Nobuki Abe	NJS	Water Demand Analyst (Municipal and Industrial Water)
(6) Emerson M. Coloma	(NK)	Water Demand Analyst (Agricultural Water)
(7) Nobukatsu Sakiyama	NJS	Groundwater Resources Planner
(8) Yasuo Iwasaki	NK	Dam Engineer
(9) Takenori Morita	NK	Database Specialist
(10) Hidenori Matsuura	NK	Construction Planner
(11) Aramando C. Lizaso	(NJS)	Institutional Planner
(12) Kiminari Tachiyama	(NK)	Socio-Economist
(13) Juntaro Mizutani	NJS	Environmental Expert
(14) Shigeyoshi Hanada	NK	Project Cycle Management (PCM) Expert
(15) Yutaka Baba	NK	Assistant Coordinator

Note

NK : Nippon Koei Co., Ltd.

NJS : Nippon Jogesuido Sekkei Co., Ltd.

付属資料-3 貯水池式ダムプロジェクトの実施計画(1/2)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000		2010										2020												
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
WRR I	Palsiguan-Nueva Multi-Purpose Dam Project	Laoag/Abra River	●	●	●	●	●	●																			
WRR I	Cula-Gasgas-Tina Multi-Purpose Dam Project	Laoag/Cura, Tina River														●	●	●	●	●	●						
WRR I	Binongan Multi-Purpose Dam Project	Abra River														●	●	●	●	●	●						
WRR II	Malig II Multi-Purpose Dam Project	Cagayan River	●	●	●	●	●	●	●																		
WRR II	Matuno Multi-Purpose Dam Project	Cagayan River			●	●	●	●	●	●	●																
WRR II	Addalam A Dam Hydroelectric Power Project	Cagayan River			●	●	●	●																			
WRR II	Ilaguen B Dam Hydroelectric Power Project	Cagayan River			●	●	●	●																			
WRR II	Aglubu Dam Project	Abulog/Apayao River	●	●	●	●	●	●	●																		
WRR III	Balog-Balog Multi-Purpose Dam Project	Agno River														●	●	●	●	●	●						
WRR III	Balintingon Multi-Purpose Dam Project	Pampanga River	●	●	●	●	●	●	●	●																	
WRR III	Bayabas Dam Project and Maasim Dam Project	Bayabas & Maasim River	●	●	●	●	●	●	●	●																	
WRR IV	Amnay Dam	Amnay-Patric River																				●	●	●	●	●	
WRR V	Talisay Multi-Purpose Dam Project	Bicol River										●	●	●	●	●	●										
WRR VI	Panay Multi-Purpose Dam Project	Panay River					●	●	●	●	●	●															
WRR VI	Jalaur Multi-Purpose Dam Project	Jalaur River														●	●	●	●	●	●						
WRR XI	Ilog No.1 Dam Project	Ilog-Hilabangan River					●	●	●	●	●	●															
WRR X	Bulang-Batang Dam Project	Cagayan de Oro	●	●	●	●	●																				
WRR X	Tagaloan Dam	Tagaloan River														●	●	●	●	●	●						
WRR XI	Bubonao Dam	Tagum-Libuganon River														●	●	●	●	●	●						

Note:
 *: The Bayabas and Maasim Dam Project is an alternative to the water supply project originally planned by MWSS.

付属資料-3 貯水池式ダムプロジェクトの実施計画(2/2)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000					2010										2020									
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
WRR XI	Davao II Multi-Purpose Dam Project	Davao River			○	○	○	○	○	○	**																
WRR XI	Dimuloc Multi-Purpose Dam Project	Buayan-Malungan River										●	●	●	●	●	●										
WRR XII	Piangi V Dam Project	Mindanao River	●	●	●	●	●																				

Note:
 ** : The Bayabas and Maasim Dam Project is an alternative to the water supply project originally planned by MWSS.

付属資料-4 主要都市に対する水供給プロジェクトの実施計画 (1/2)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000		2010									2020													
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
WRR IV	Water Supply Project for Metro Manila Kanan-Kaliwa Transbasin Project (Scenario-1)	Kanan River																									
WRR IV	Manila Water Supply III Laiban Dam (Scenario-1)	Kaliwa River																									
WRR III	Pampanga Water Conveyance Project (Scenario-2)	Pampanga River																									
WRR IV	Kanan-Umiray Transbasin Project (Scenario-2)	Kanan River																									
WRR III	Maasim Dam Project (Scenario-2 and 3)	Maasim River																									
WRR III	Bayabas Dam Project (Scenario-2 and 3)	Bayabas River																									
WRR IV	Kaliwa-Water Conveyance Project (Scenario-3)	Kaliwa River																									
WRR VII	Water Supply Project for Metro Cebu Bohol-Cebu Water Supply Project Phase-I(Scenario-1 and 2)	Inabanga River																									
WRR VII	Bohol-Cebu Water Supply Project Phase-II(Scenario-1 and 2)	Inabanga River																									
WRR VII	Lusaran Dam Project Phase-1 (Scenario-1)	Balamban River																									
WRR VII	Mananga II Dam project (Scenario-1)	Mananga River																									
WRR VII	Malubog-Mananga Transbasin Project (Scenario-2 and 3)	Sapang Daku River																									
WRR VII	Lusaran- Pulambato Transbasin Project (Scenario-2 and 3)	Balamban & Butuanon																									
WRR III	Water Supply Project for Baguio City Laboy Dam Water Supply Project (Scenario-1)	Laboy River																									
WRR III	Bulk Water Supply Project (Scenario-1)	Laboy River																									
WRR III	Rehabilitation of Amilang Spring Stage-1, St. Thomas Reservoir (Scenario-1)	Amilang Spring																									
WRR III	Laboy Weir Water Supply Project (Scenario-2)	Laboy River																									

付属資料-5 灌漑プロジェクトの実施計画 (1/6)

Region Code	Project Name	River Name	Implementation Schedule																								
			2006					2010					2020														
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
WRR 3	(On-going Irrigation Project) Diversified Crops Irrigation Project II		●																								
WRR 4	Palawan Integrated Area Development Project II - IC		●																								
WRR 7	Bohol Irrigation Project I (Until the 1997)																										
WRR 6, 7 & 8	Visayas Communal Irrigation and Participatory Project		●																								
WRR 12	Malitubog-Maridagao Irrigation Project	Maridagao River	●	●	●																						
Nation-Wide	Second Communal Irrigation Development Project		●																								
WRR 12	Kabulnan Irrigation & Area Development Project	Kabulnan River	●																								
WRR 3	Pampanga Delta Development Project (IC)	Pampanga River	●	●	●																						
Nation-Wide	Irrigation Operation Support Project II,		●																								
WRR 10	Lower Agusan Development Project - IC	Agusan River	●	●	●	●																					
WRR 7	Irrigation Systems Improvement Project II		●	●	●	●																					
WRR 3	Casencan Multipurpose Irrigation & Power Project - IC	Casencan River (Cagayan River)	●	●	●	●	●	●																			
Nation-Wide	Water Resource Development Project		●	●	●	●	●																				
Nation-Wide	Repair and Rehabilitation of Existing National and Communal Irrigation Facilities.		●	●	●	●	●	●	●	●																	
Nation-Wide	Repair and Rehabilitation of existing Service and Access Roads in National Irrigation Systems, Farm-to-Market Roads Nationwide.		●	●																							
Nation-Wide	Repair and Establishment of Groundwater Pump Projects		●	●	●																						
Nation-Wide	Small Reservoir Irrigation Project (SRIP)		●	●	●	●	●																				
Nation-Wide	Rehab, repair and Improvement of Drainage & Flood Protection System (CIS & NIS)		●	●																							

付属資料--5 灌漑プロジェクトの実施計画 (2/6)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000					2010										2020									
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
Nation-Wide	Feasibility Study and Detailed Engineering of Proposed Irrigation Projects		●	●	●	●	●	●	●	●	●																
Nation-Wide	Agri-Institutional Development Program Nationwide.		●	●	●	●	●	●	●	●	●																
WRR 2	Apayao-Abulog Irrigation System Improvement Project Kalinga-Apayao	Abulog River	●	●	●																						
WRR 3	Rehabilitation Of areas affected by Mt. Pinatubo, Tarlac, Zambales & Pampanga		●	●	●																						
WRR 2	Ibayat Integrated Detailed Engineering of Proposed Projects		●	●	●																						
WRR 8	Catubig Irrigation Project		●	●	●																						
WRR 8	Dolores Irrigation Project		●	●	●																						
WRR 8	Basey Irrigation Project	Bugasan River	●	●	●																						
WRR 19	Bubunawan-Tumalaong Irrigation Project	Bubunawan River & Tumalaong River	●	●	●	●																					

付属資料-5 灌漑プロジェクトの実施計画 (3/6)

Region Code	Project Name	River Name	Implementation Schedule																							
			2000			2010											2020									
			58	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24
	(Priority Pipeline Projects)																									
WRR 2	Addalam River Irrigation Project	Addalam River	●	●	●	●																				
WRR 3	Infanta Impounding Irrigation Project		●	●	●																					
WRR 2	Pump Projects for Corn and Other Diversified Crops		●	●	●	●																				
WRR 4	Upland Irrigation and Rural Development Project in Southern Luzon (Southern Tagalog IP)			●																						
WRR 3	Revitalization of Central Luzon Groundwater Irrigation Project		●	●	●																					
WRR 6, 10 & 11	Southern Philippine Irrigation Sector Project		●	●	●	●	●																			
WRR 7	Aklan RIS and Rural Areas Environment Improvement Project		●	●	●																					
WRR 7	Bohol Irrigation Project II	Wahig-Pamaacsalan River	●	●	●	●	●																			
WRR 3	Lower Agno (San Roque) Irrigation Project	Agno River, Ambayonan, Dipalo River	●	●	●	●	●	●																		
Nation-Wide	Pump Irrigation Project II (Spanish Loan)			●	●																					
WRR 3	Rationalization Project of Irrigation Water Use for AMRIS Pampanga and Bulacan			●	●	●	●																			
WRR 2	Baligatan Mini-Hydro Project II			●	●																					
WRR 3	North Lawis Irrigation Project			●	●																					
WRR 8	Help for Catubig Agricultural Advancement Project, Stage I			●	●	●	●	●																		
Nation-Wide	Control & Prevention of Sedimentation and Siltation in Irrigation Canal & Facilities			●	●	●	●	●																		
WRR 3	Mapanuepe Lake Irrigation Project	Mapanuepe Lake		●	●	●																				
WRR 6	Sibalom-San Jose Reservoir Project	Naoit River		●	●	●	●																			
WRR 1	Ilocos Sur Transbasin project	Abra River		●	●	●	●	●																		
WRR 1	Ilocos Norte Irrigation Project (Palsiguan) Phase II	Palsiguan River		●	●	●	●	●	●																	

付属資料-5 灌漑プロジェクトの実施計画 (4/6)

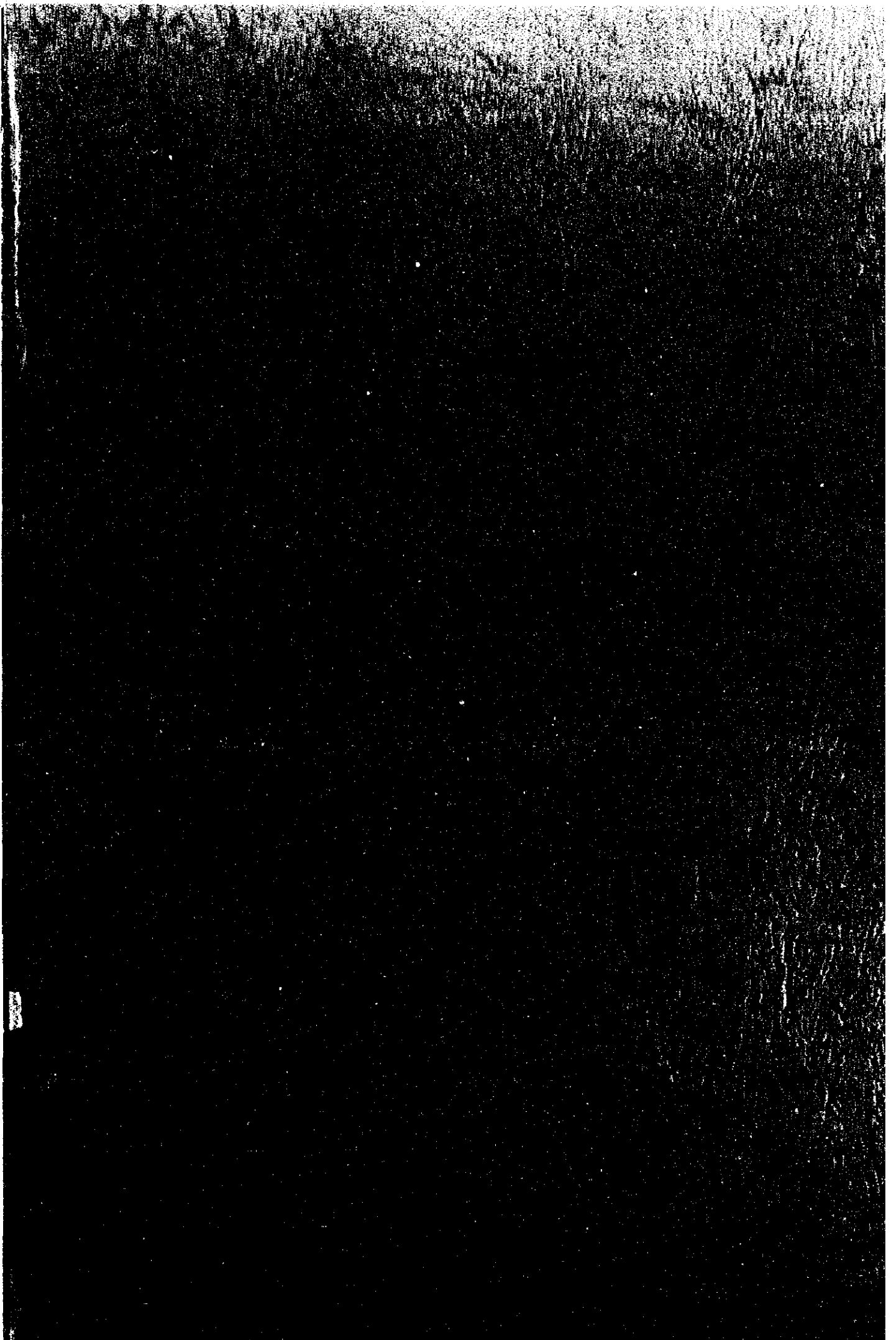
Region Code	Project Name	River Name	Implementation Schedule																								
			2000					2010										2020									
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
WRR 12	Land Reclamation and Resettlement Project in Liguasan Marsh and Maguindanao	Mayag River			●	●	●	●																			
WRR 10	Lake Mainit Integrated Area Development Project IC				●	●	●	●	●																		
WRR 6	Negros Occidental Irrigation Package Negros Occidental		Malogo, Hinafinan, Imbag, Logoy Rivers & Hilabangan Rivers			●	●	●	●	●	●																
WRR 6	Jalaur Irrigation Systems and Rural Areas Development Project Heilo					●	●	●	●	●																	

付属資料-5 灌漑プロジェクトの実施計画 (5/6)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000		2010										2020												
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
	(Other Pipeline Project)																										
WRR 1, 2, & 5	Improvement of O&M of Pump Irrigation Systems, Ilocos Norte, Cagayan and Camarines Sur					●	●																				
WRR 4	Quipot Irrigation Project	Quipot River				●	●	●																			
WRR 8	Malitbogay Irrigation Project	Daguitan River				●	●	●																			
WRR 12	Kadingilan Irrigation Project	Maridagao River				●	●	●	●	●																	
WRR 2	Tumauni Reservoir Project					●	●	●	●	●																	
Nation-Wide	Small Scale Irrigation Dev't. Project					●	●	●	●	●																	
WRR 5	Bicol River Basin Flood Control Irrigation Development Project-IC					●	●	●	●	●																	
WRR 3	Balintingon Reservoir Project	Balintingon & Sumacbao Rivers				●	●	●	●	●																	
WRR 9	Titay Valley Irrigation Project					●	●	●	●	●																	
Nation-Wide	Wind Turbines for Pump Irrigation Systems					●	●																				
WRR 2	Magat Watershed and Erosion Control Project					●	●	●	●																		
WRR 2	Matuno Irrigation Project	Matuno, Magat, & Lanog Rivers				●	●	●	●																		
WRR 12	Malitbog-Libungan Transbasin Irrigation Project	Malitbog River				●	●	●	●																		
WRR 6	Jalaur Alternative Scheme Project					●	●	●	●																		
WRR 3	Mabini Irrigation Project	Balincaguin River				●	●	●																			
WRR 6	Asue River Basin Dev't Project	Asue, Gubaton, Serruco & Catipayan Rivers				●	●	●																			
WRR 11	Saug River Multipurpose Project Multipurpose	Saug River				●	●	●																			
WRR 12	Malitbog-Maridagao Irrigation Project II							●	●																		

付属資料-5 灌漑プロジェクトの実施計画 (6/6)

Region Code	Project Name	River Name	Implementation Schedule																								
			2000		2010										2020												
			98	99	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	21	22	23	24	25
	(Other Program)																										
Nation-Wide	Operation and Maintenance Subsidy for NIS		●	●																							
Nation-Wide	CARP- Irrigation Component		●																								
Nation-Wide	Agrarian Reform Infrastructure Support Project Nationwide		●	●																							
WRR	Payments for Unpaid Claims of Completed Projects		●																								
Nation-Wide	Small Scale Irrigation Infrastructure Program (BSWM)																										



JICA