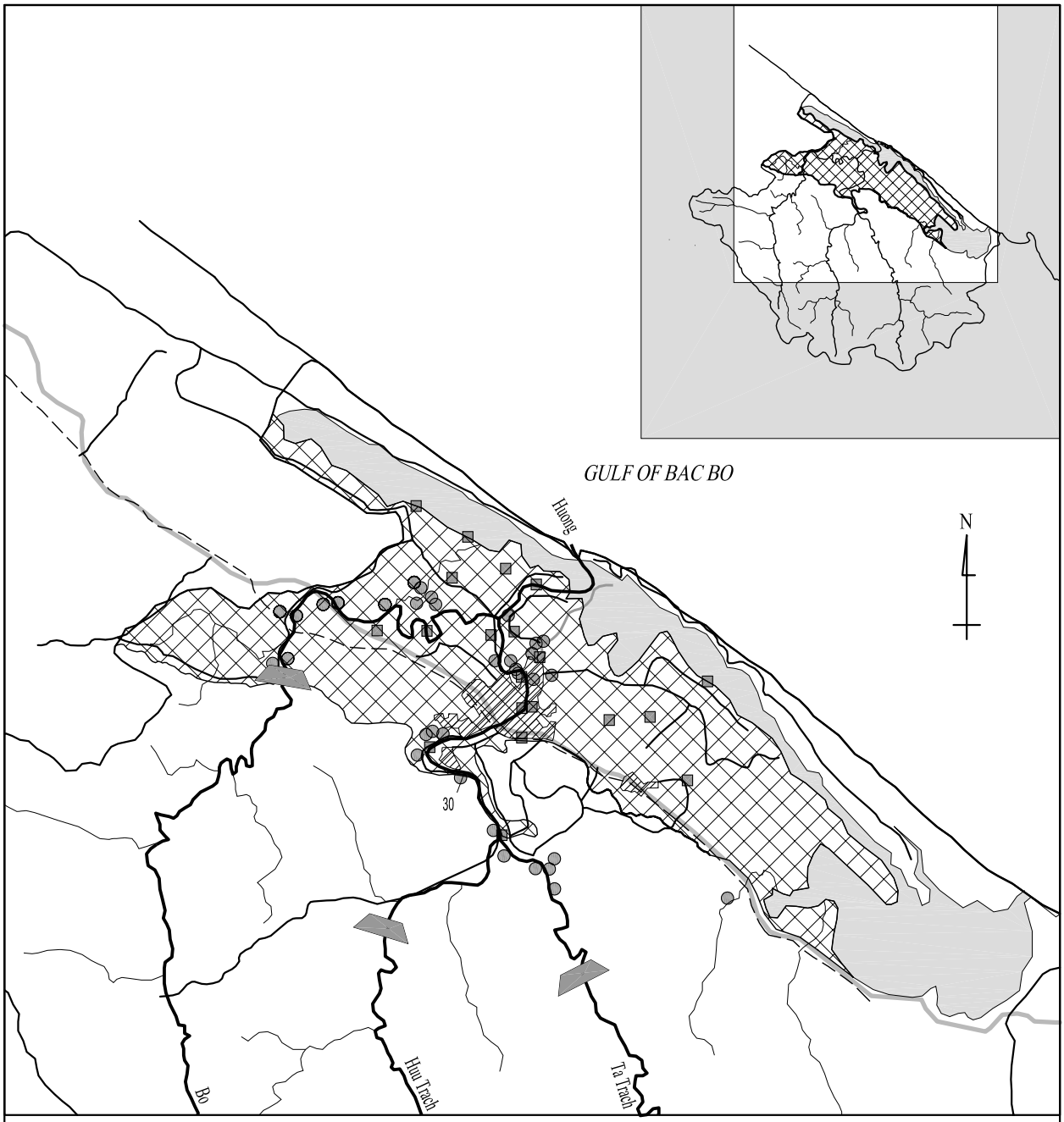
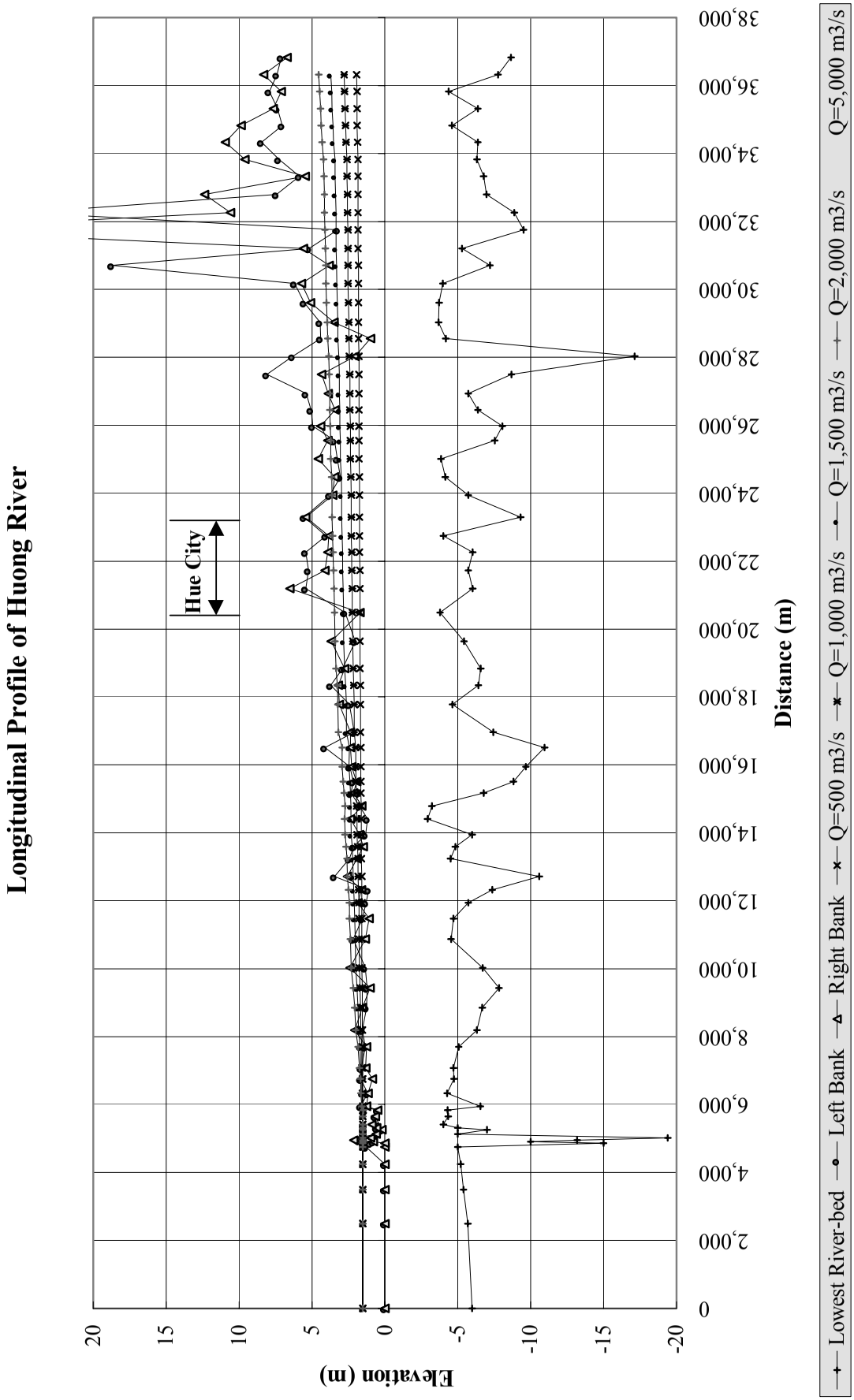


: Flood prone area*, A=536km2
(Note: Based on the topographic map of 1:50,000 scale)

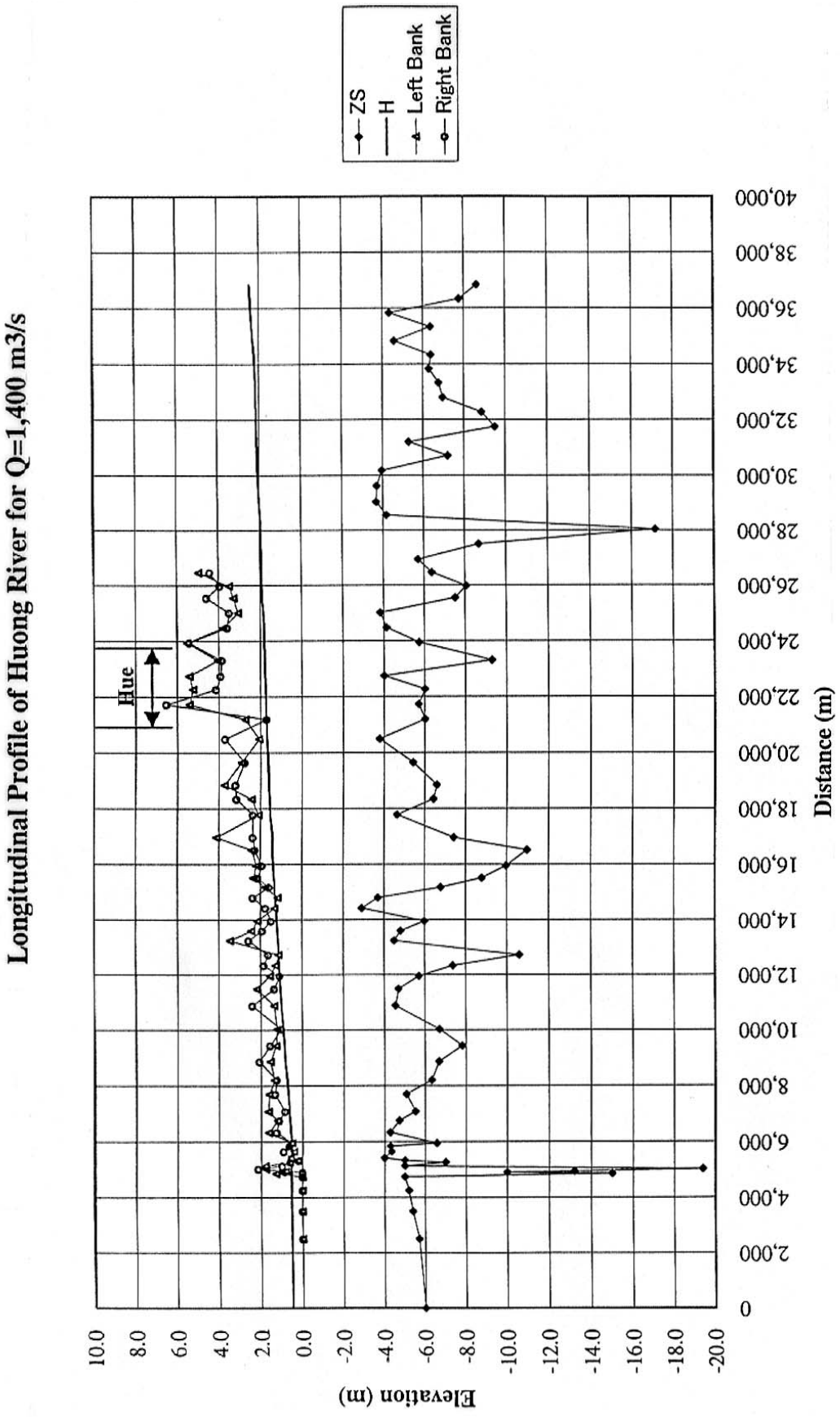
: Reported damage in 1999
: Water level record in 1999
: National highway No.1
: Local road
: Railway

0 25 km

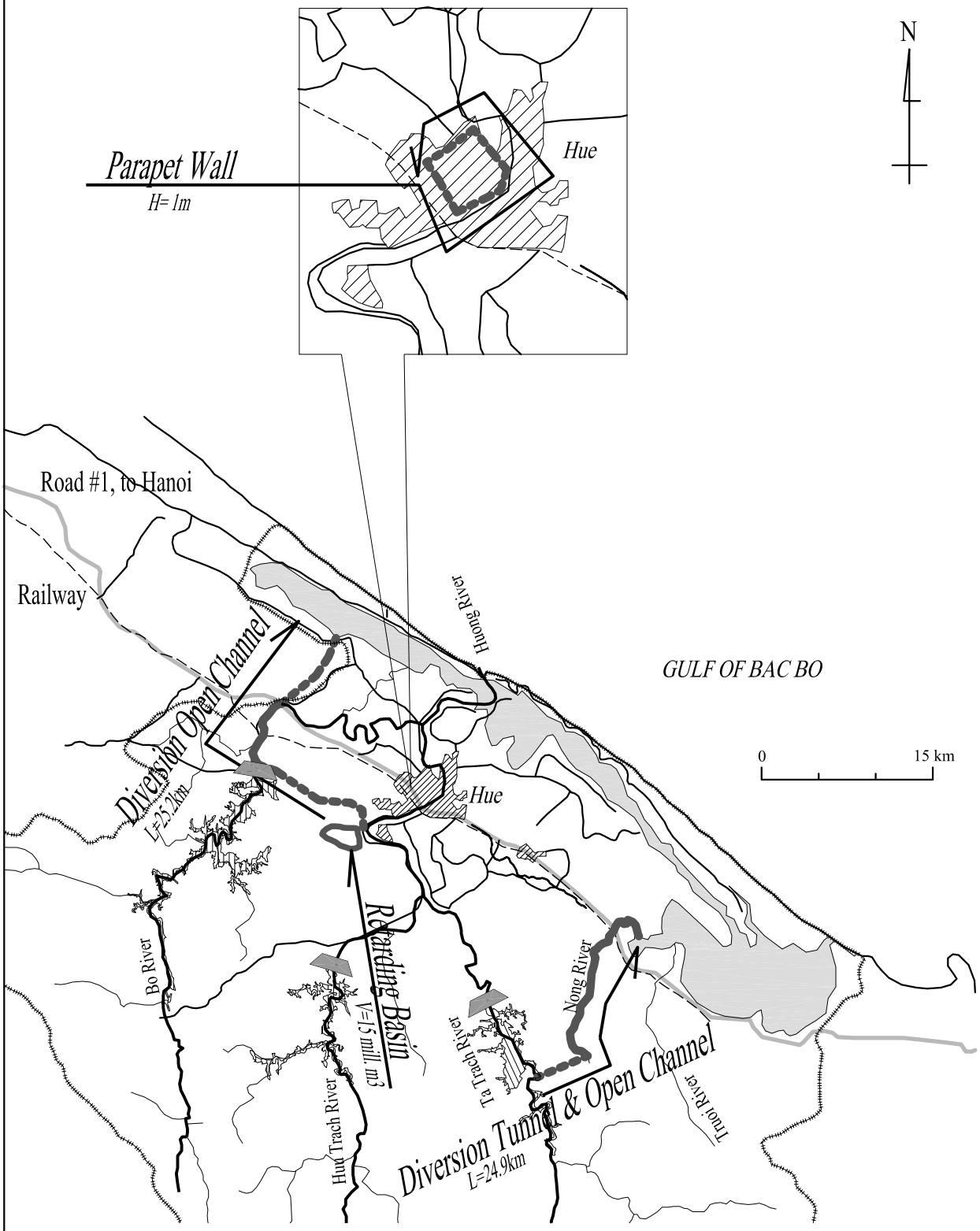
The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure 8.2** **Flood Prone Area of Huong River Basin**
JAPAN INTERNATIONAL COOPERATION AGENCY	



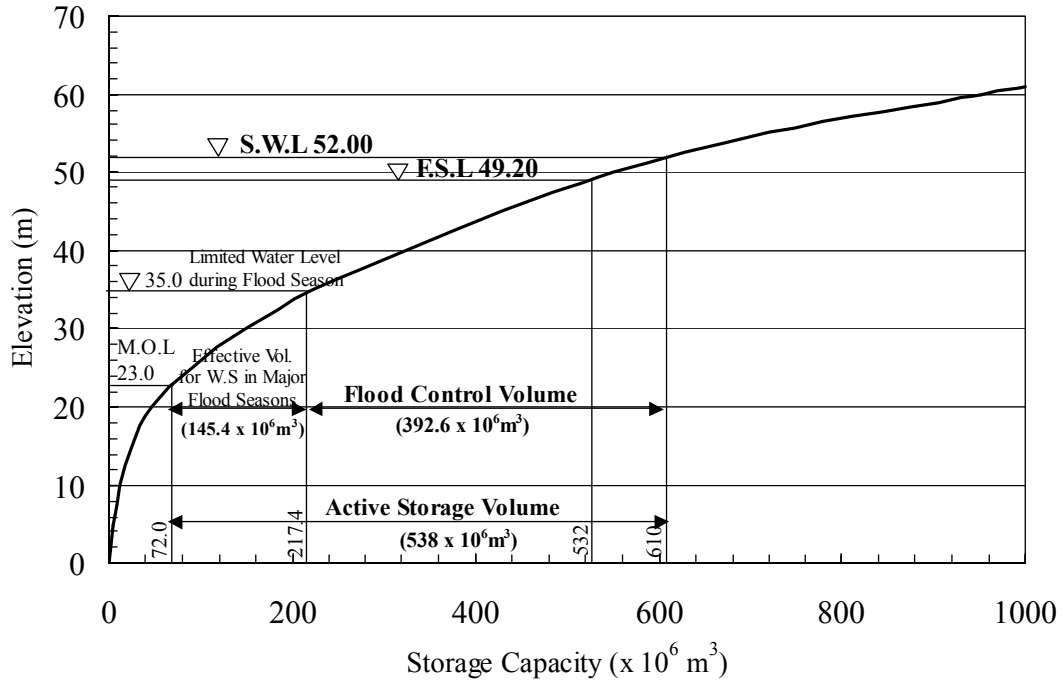
The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure 8.3**
JAPAN INTERNATIONAL COOPERATION AGENCY	**Longitudinal Profile of Huong River**



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure 8.4** **Longitudinal Profile of Huong River for Q=1,4000 (m^3/s)**
JAPAN INTERNATIONAL COOPERATION AGENCY	



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure 8.5** **Proposed Flood Control Facilities**
JAPAN INTERNATIONAL COOPERATION AGENCY	



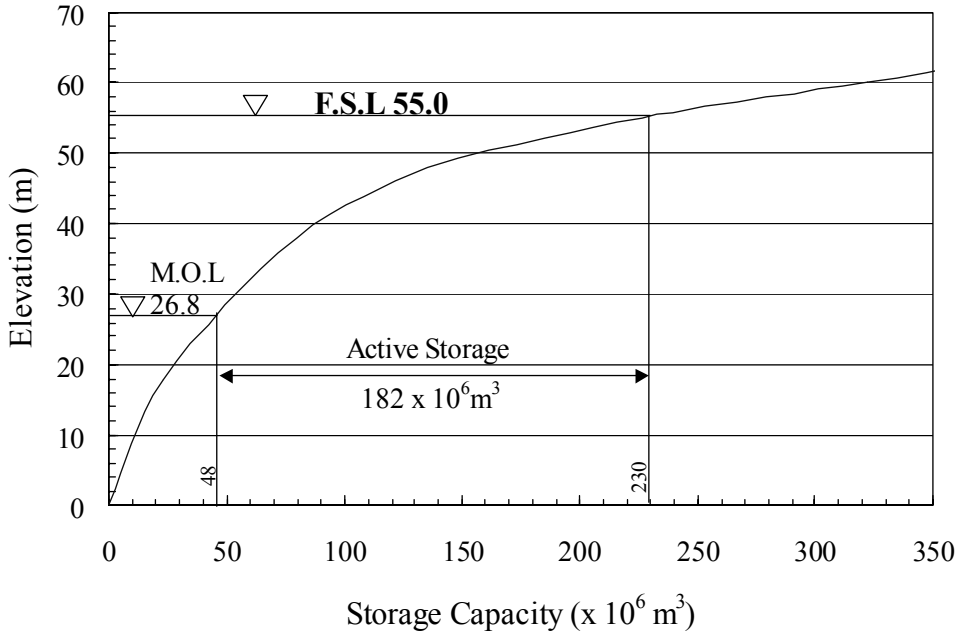
Elevation (H) and Storage Curve (V) of Ta Trach Reservoir

H (m)	0	5	10	15	20	25	30	35	40	45	50	55	60
V (x 10^6 m^3)	0.24	4.96	11.96	23.71	47.77	90.50	149.3	223.7	323.7	430	550.3	720	950.4

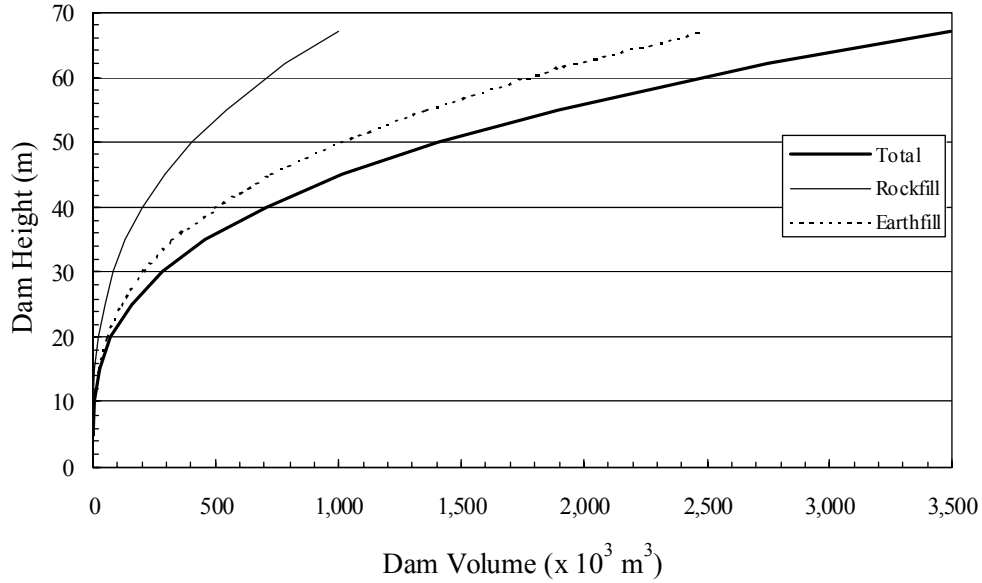
		F/S
Gross Storage	610 x 10^6 m^3	610 x 10^6 m^3
Dead Storage	72 x 10^6 m^3	72 x 10^6 m^3
Active Storage	538 x 10^6 m^3	538 x 10^6 m^3
Flood Control Vol.	392.6 x 10^6 m^3	388 x 10^6 m^3
Effective Vol. for Water Supply	460 x 10^6 m^3	348 x 10^6 m^3
Effective Vol. for Water Use in Major Flood Season (from Sep.1 to Nov. 30)	145.4 x 10^6 m^3	145.4 x 10^6 m^3
Dam Crest EL.	55.0 m	55.0 m

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 8.6** **Storage Curve of Ta Trach Reservoir**

Storage Curve of Huu Trach Reservoir

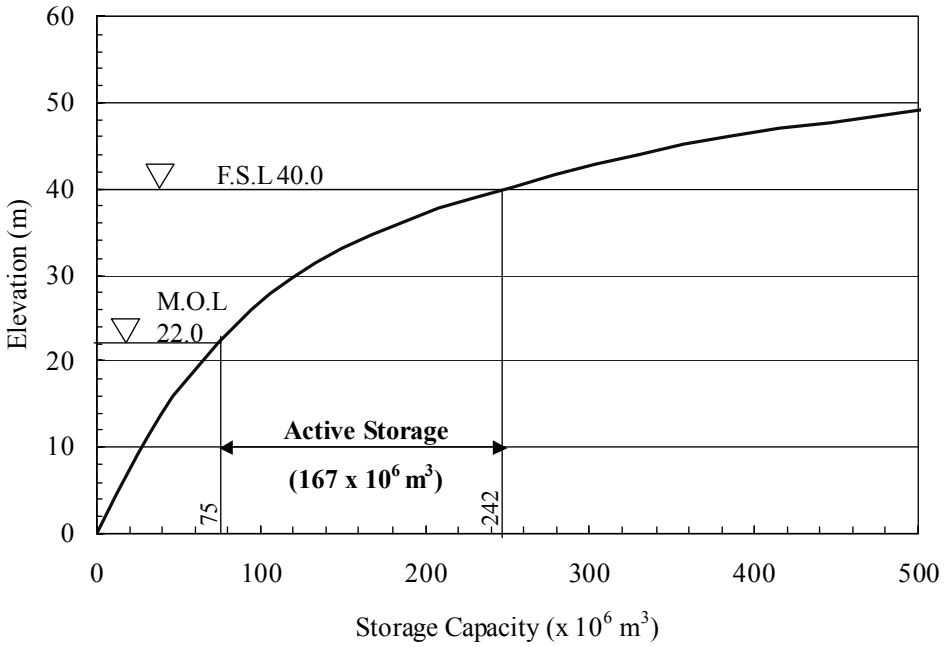


Height and Volume Curve of Huu Trach Reservoir

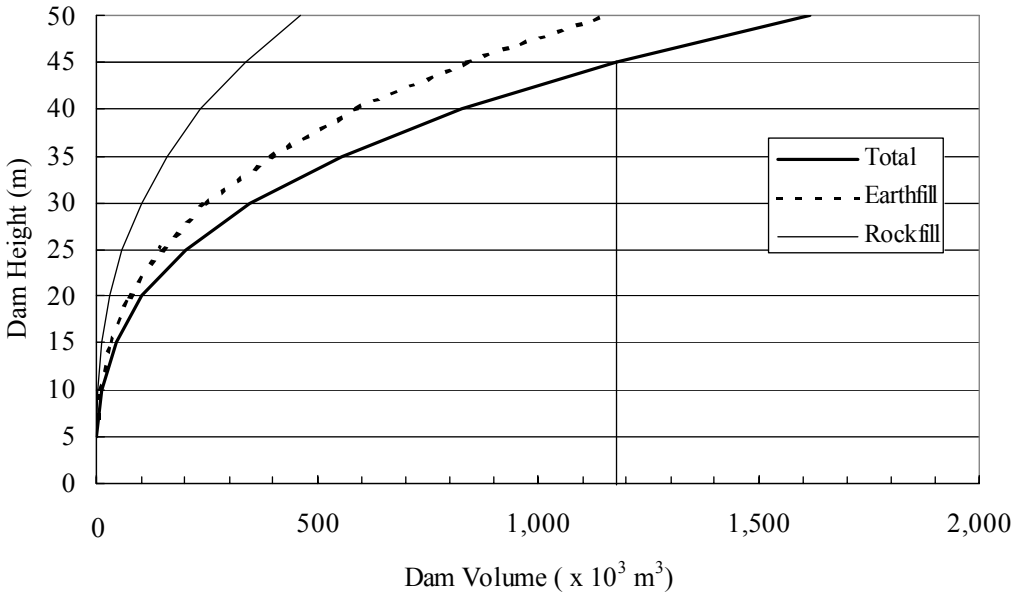


The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 8.7** **Storage Curve of Huu Trach Reservoir**

Storage Curve of Co Bi Dam, Bo river



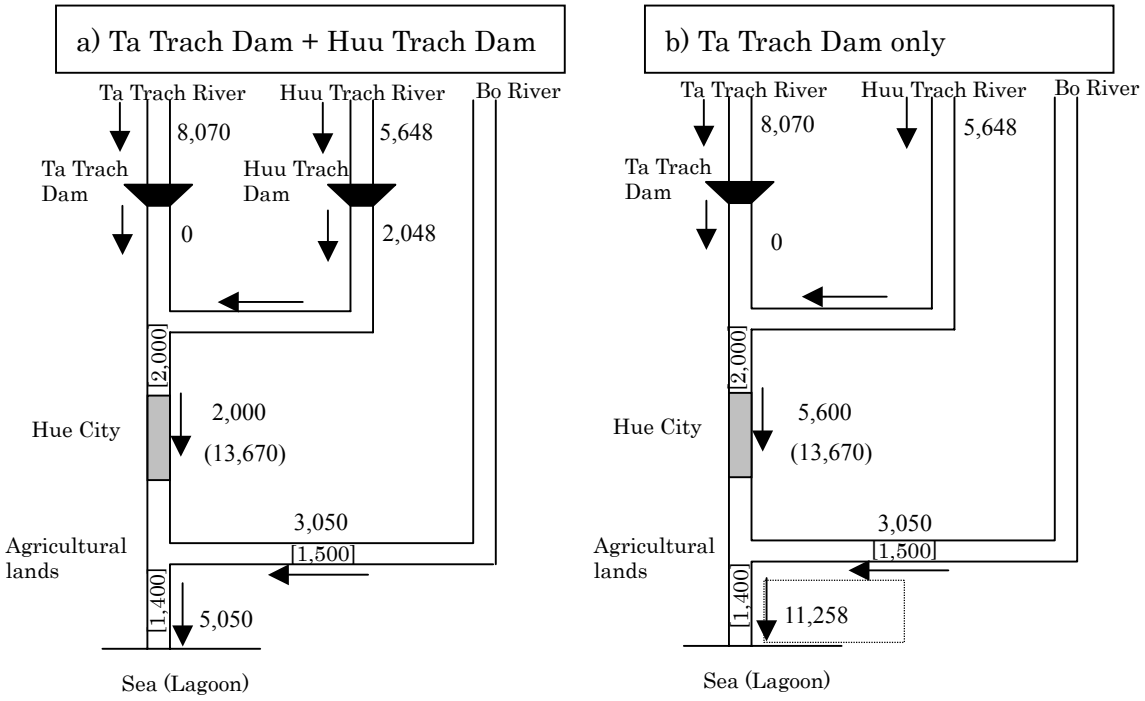
Height and Volume Curve of Co Bi Dam



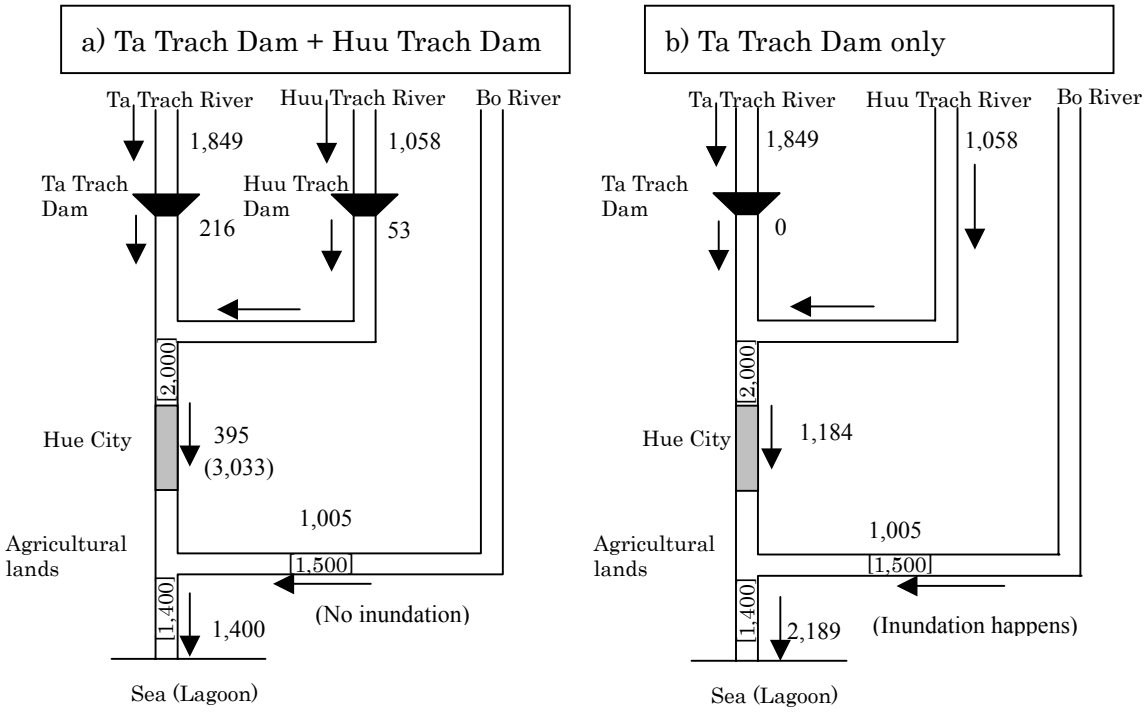
The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 8.8** **Storage Curve of Co Bi Reservoir**

(1) Major Flood in 1999

(unit : m³/second)

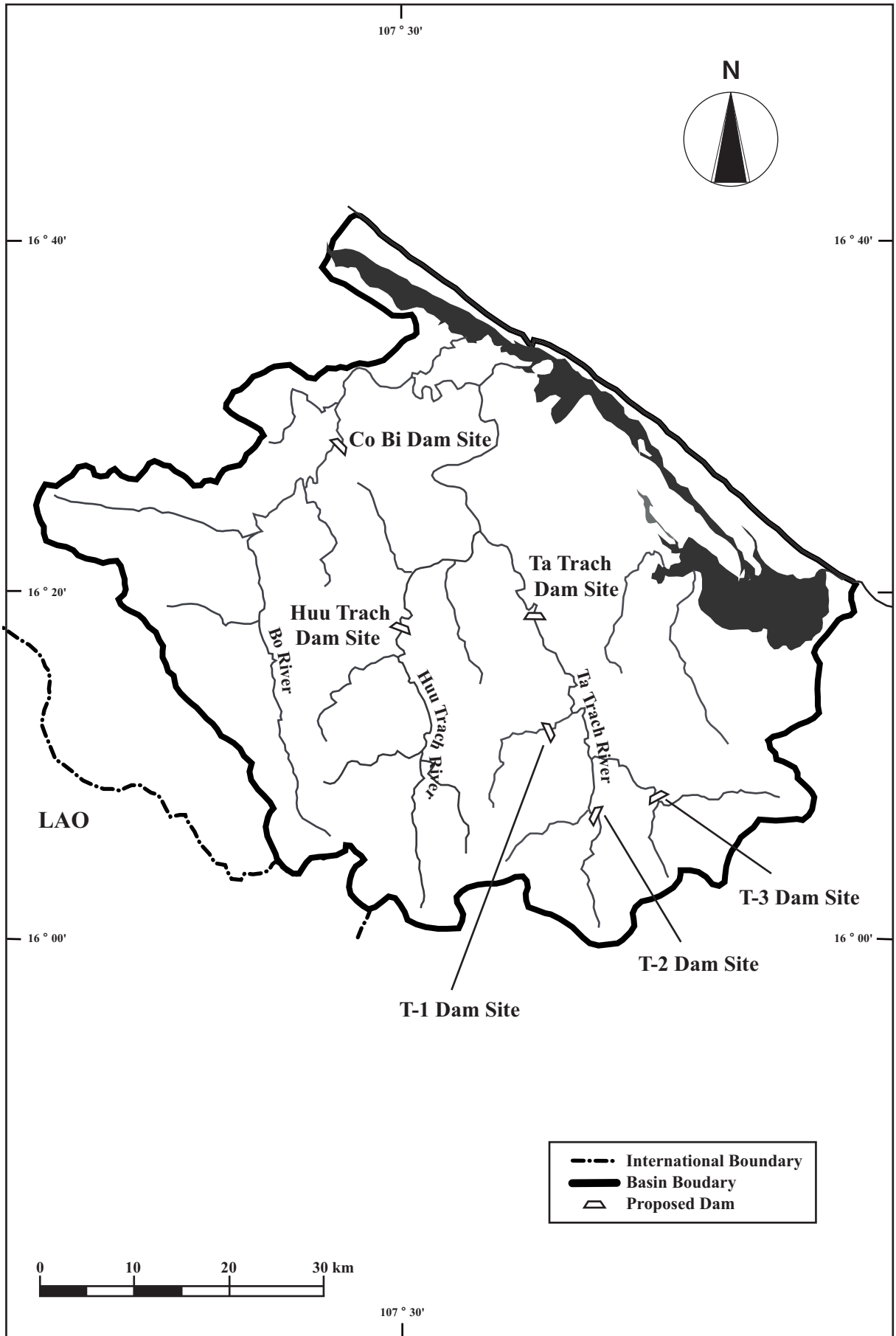


(2) 10-year Early Flood



Legend
5,540 : design discharge
(13,410): design discharge before regulation
[2,000] : channel carrying capacity

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 8.9** **Discharge Distribution in Probable Floods**



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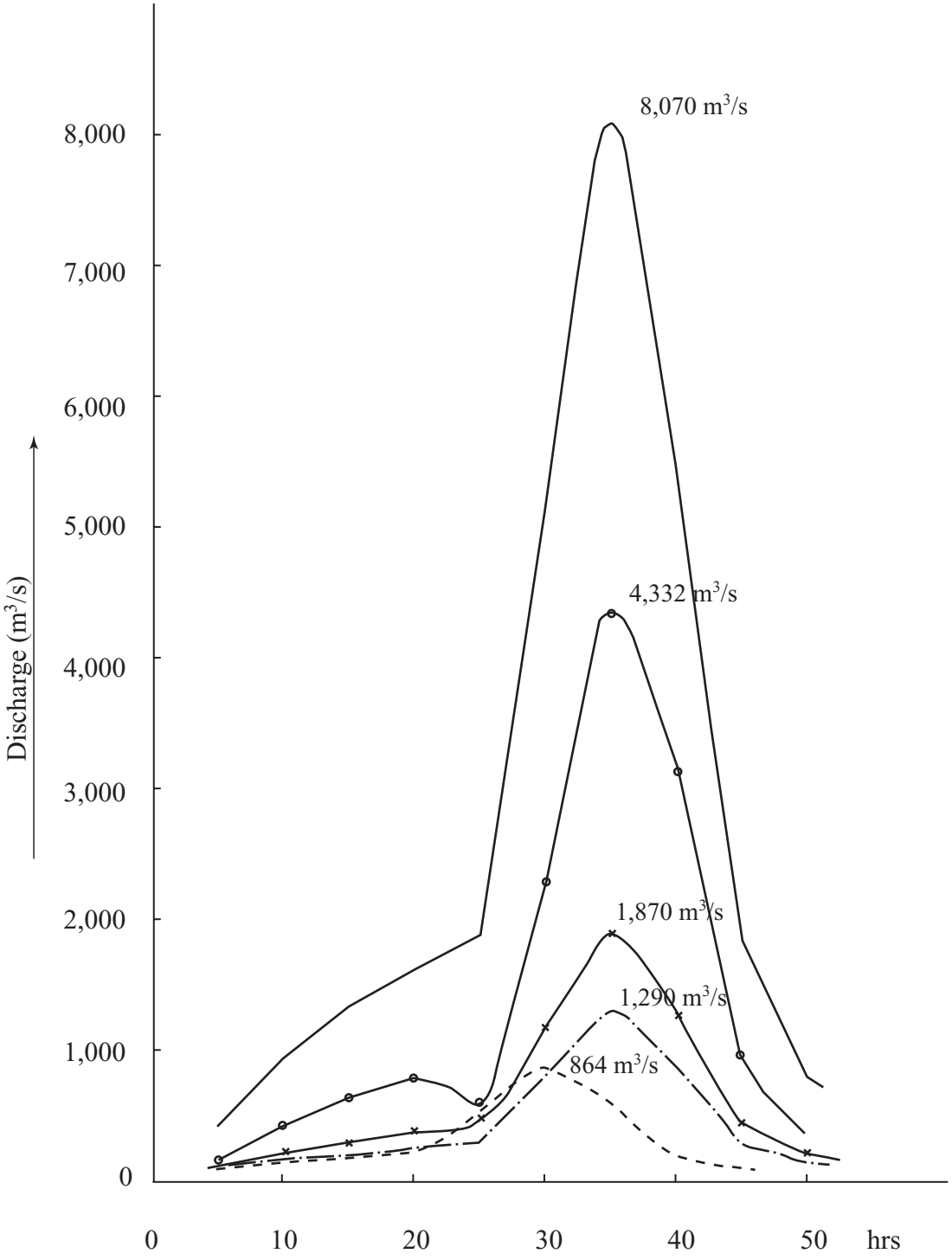
JAPAN INTERNATIONAL COOPERATION AGENCY

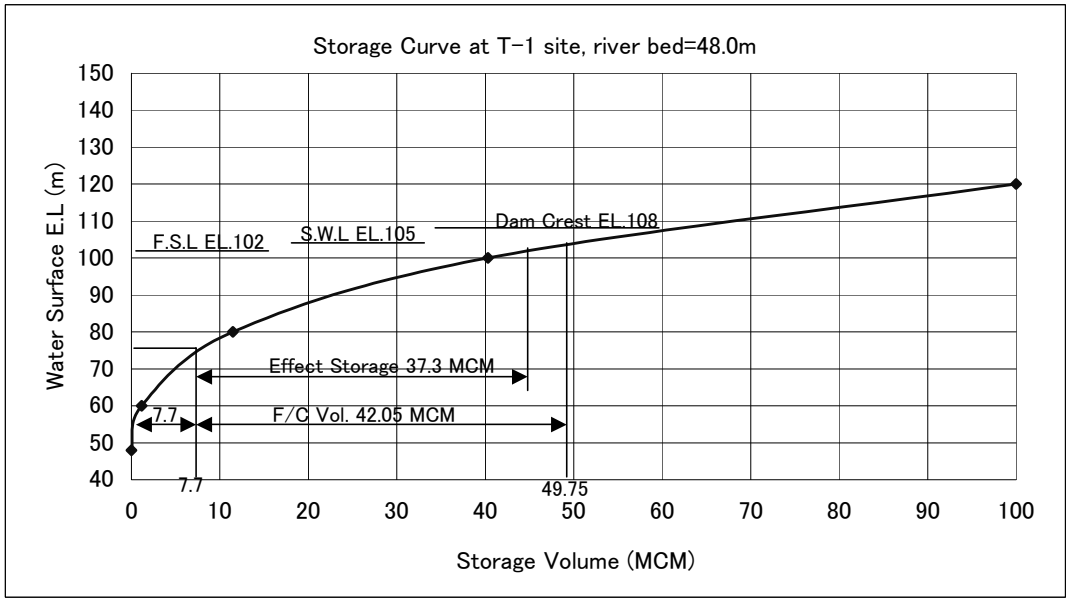
Figure 8.10
Location Map of Dams in Upstream Reaches of Ta Trach Dam

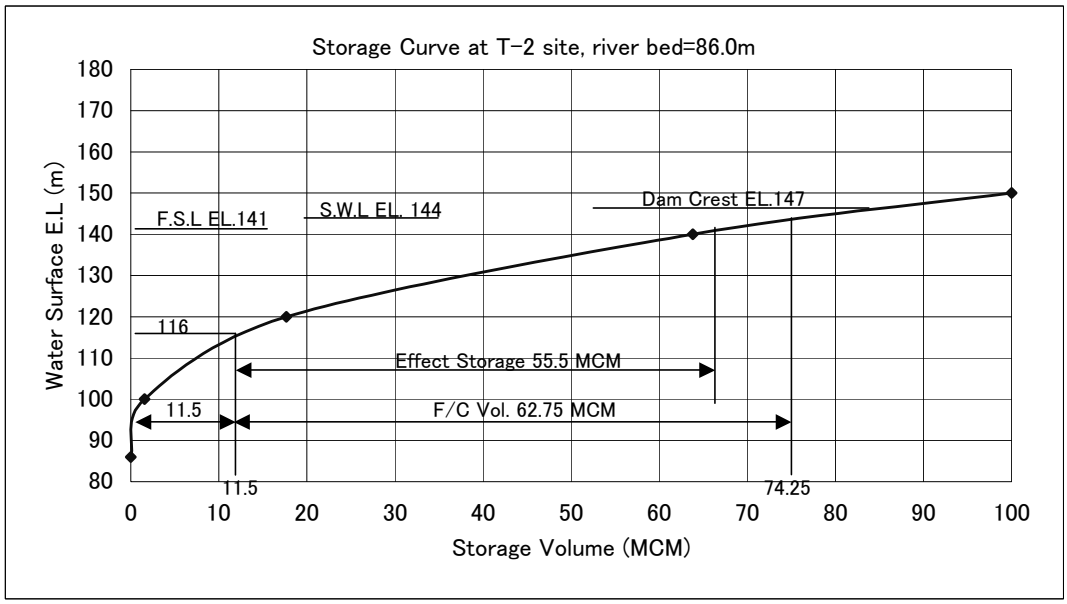


Remark:

: Objective flood for flood control of Ta Trach Dam
: Remaining flood at Ta Trach damsite after cutting floods at T-1, T-2 & T-3 dams
: Flood hydrograph at Ta Trach damsite due to T-1 damsite basin rainfall
: Flood hydrograph at Ta Trach damsite due to T-2 damsite basin rainfall
: Flood hydrograph at Ta Trach damsite due to T-3 damsite basin rainfall

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure 8.11** **Flood Control Effect by T-1, T-2 and T-3 Dams**





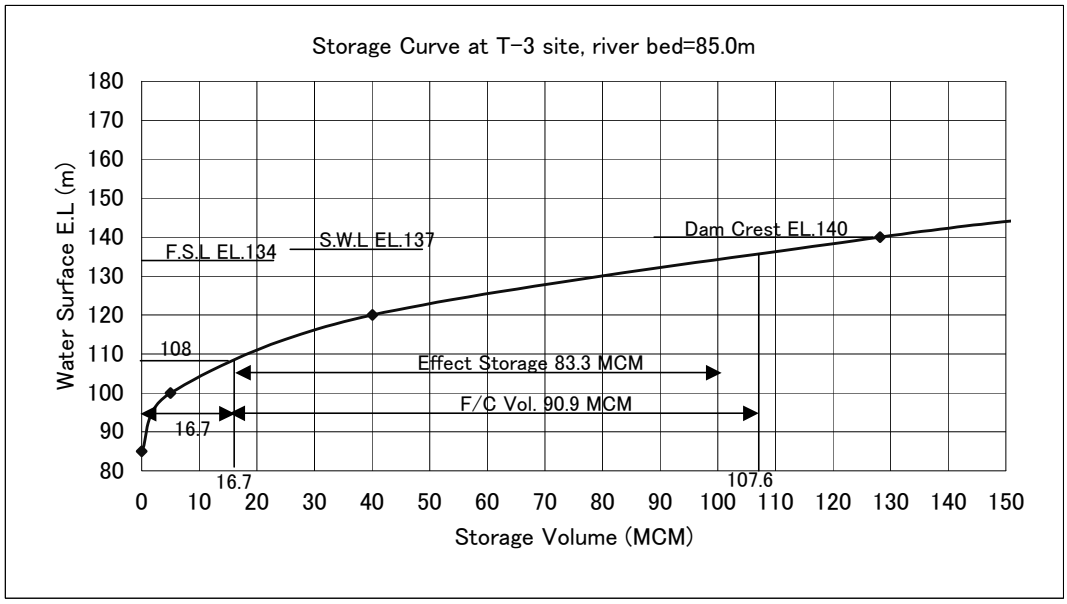


Figure 8.12
Storage Capacity Curve and Dam Scale of Dams in Upstream Reaches of Ta Trach Damsite

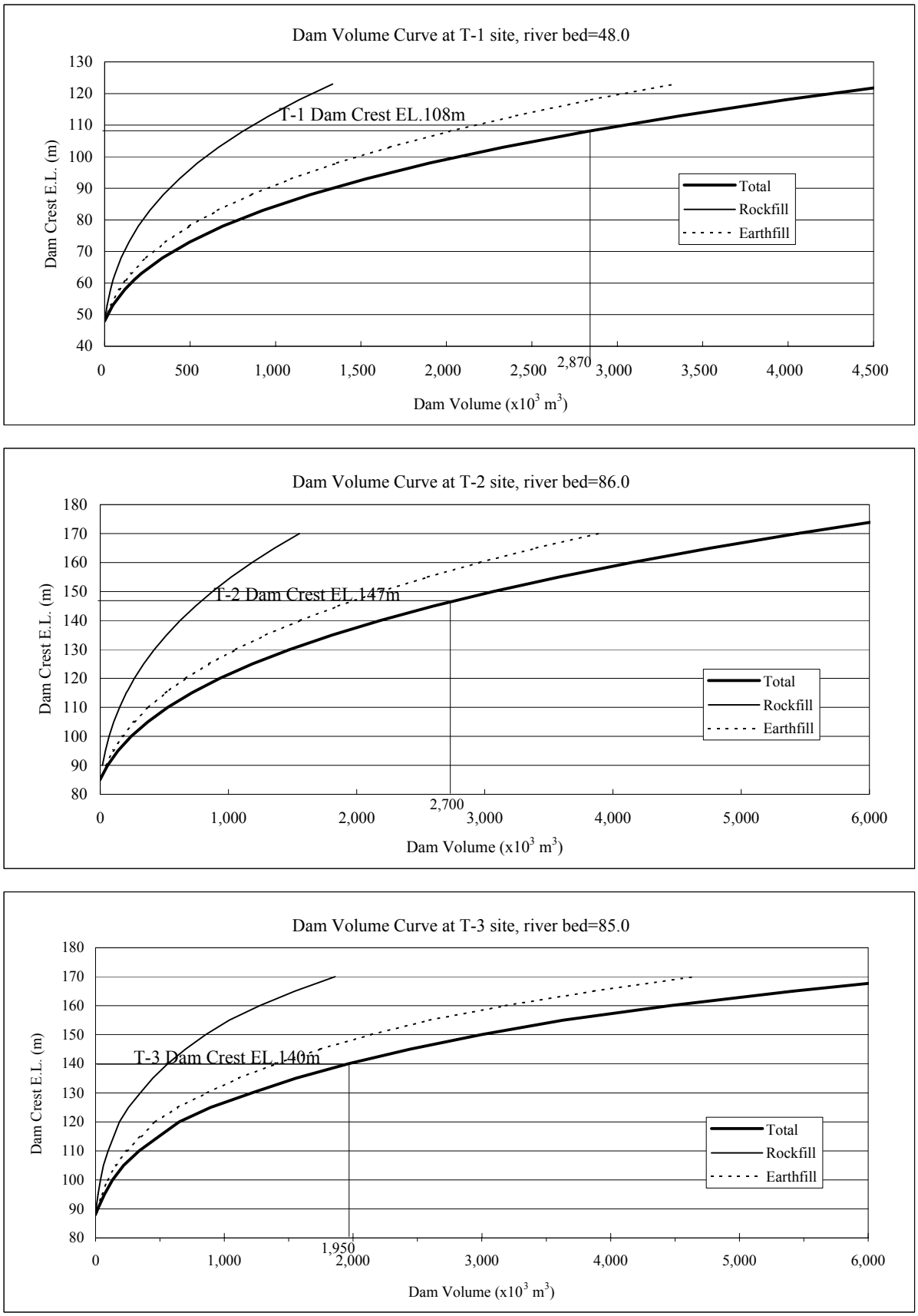


Figure 8.13
Dam Volume Curve and Dam Volume of Dams in Upstream Reaches of Ta Trach Damsite

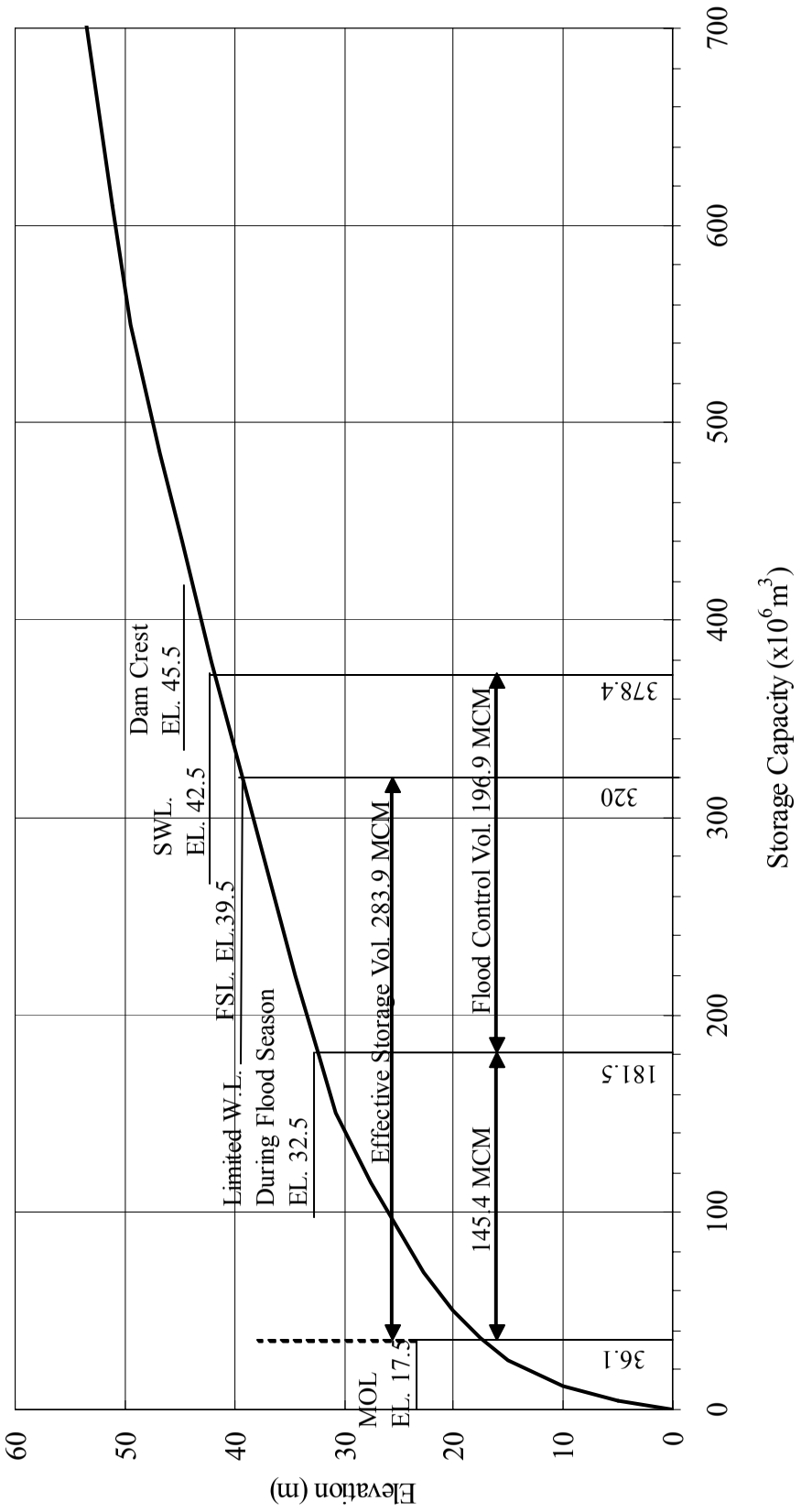


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Figure 8.14

Development Scale of the Dam at Ta Trach Damsite in Combination with the Upstream Dams