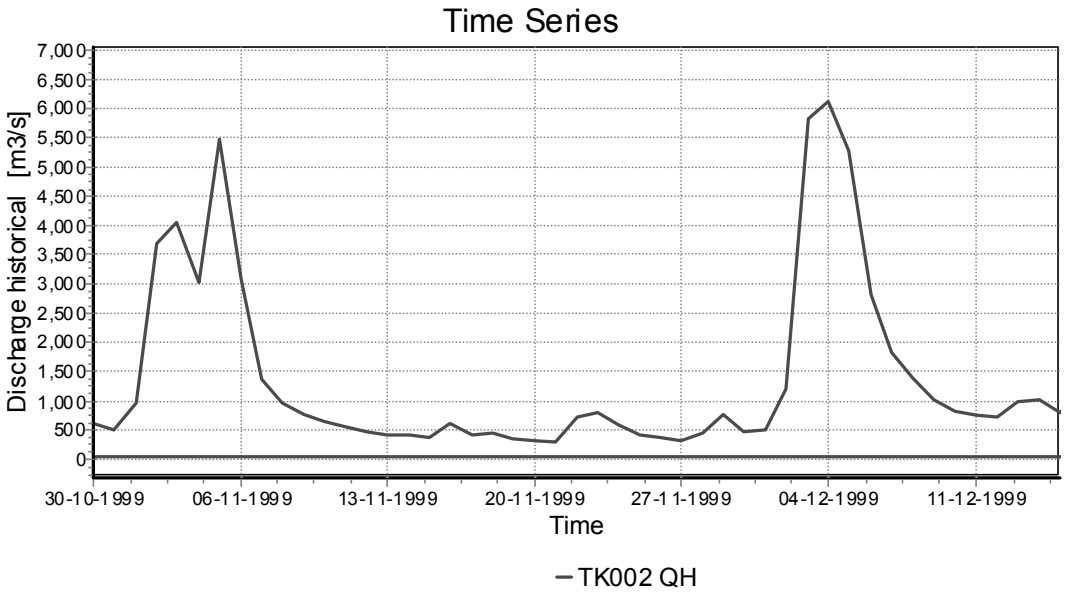
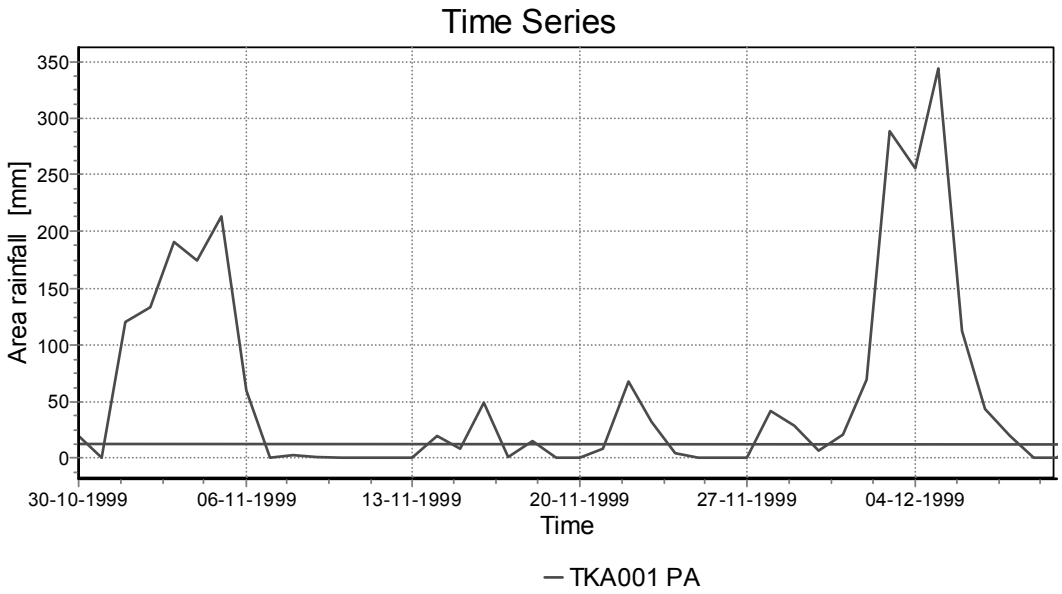
1999 Flood at Son Giang
(instaneous peak discharge: 5/11/99 8,320 m3/s, 4/12/99 10,100m3/s)



estimated flood volume: 1/11/99-6/11/99: 1,500Mm3
estimated flood volume: 3/12/99-6/12/99: 1,200Mm3

Tra Khuc Basin Area Rainfall (upstream Son Giang)



estimated rainfall volume: 1/11/99-5/11/99: 2,200Mm3
estimated rainfall volume: 3/12/99-6/12/99: 2,400Mm3

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.23** **Typical Flood** **Tra Khuc River at Son Giang**
JAPAN INTERNATIONAL COOPERATION AGENCY	

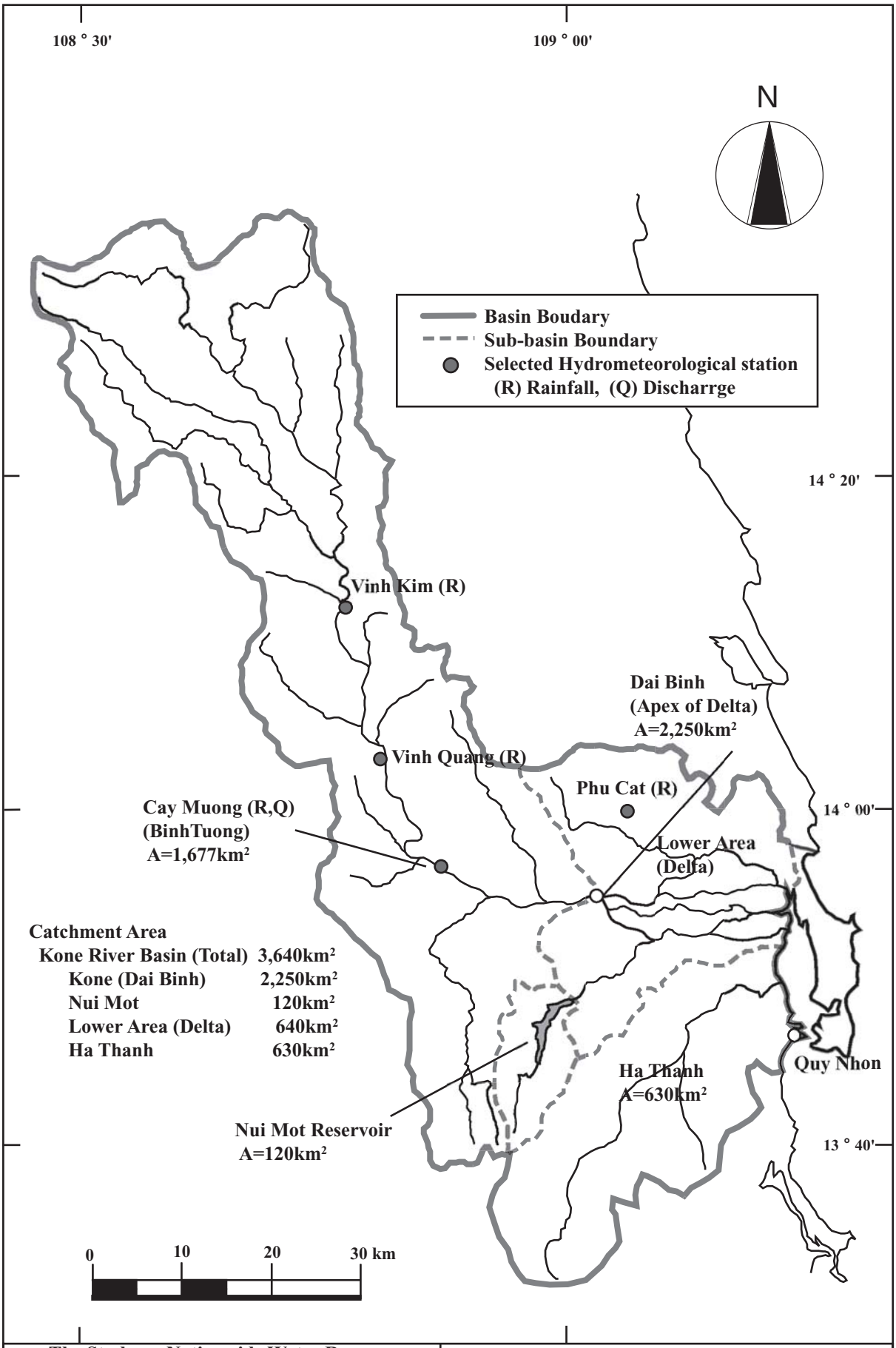


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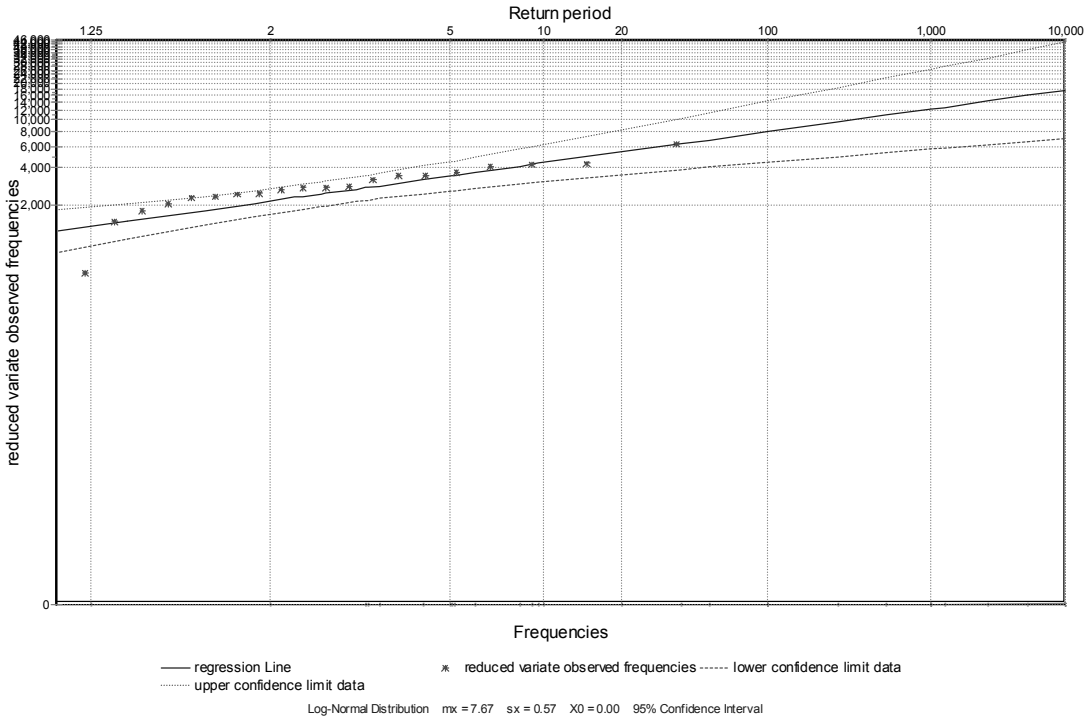
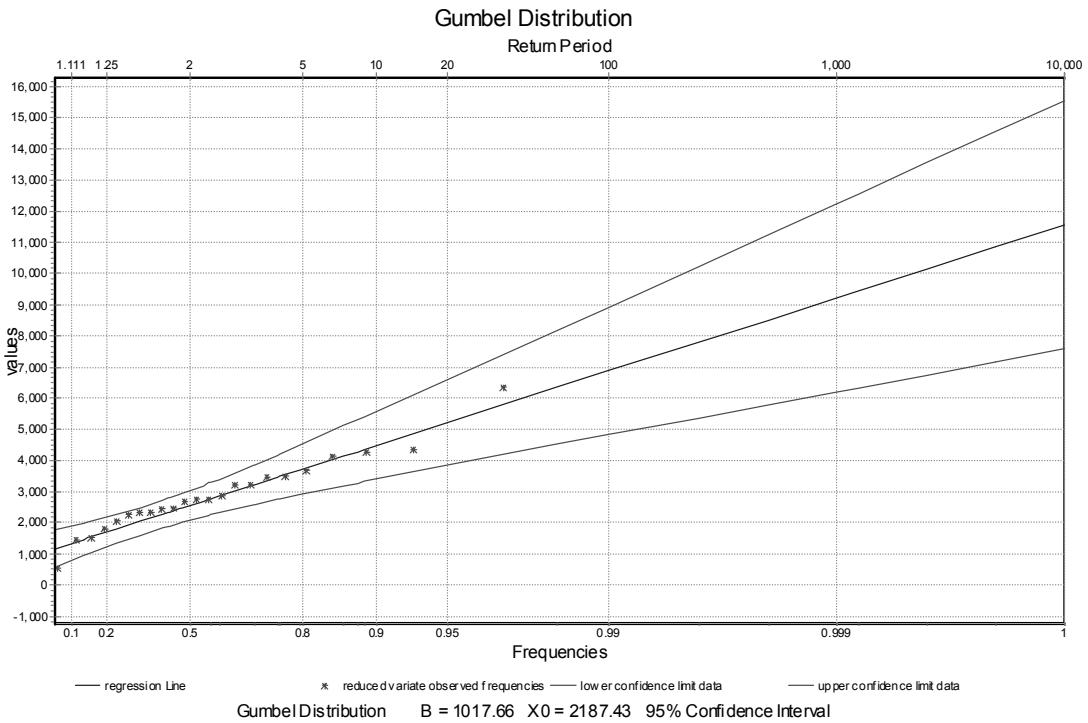
Figure B.24
Location Map Kone River Basin

Log-Normal Distribution (yearly maximum discharge)

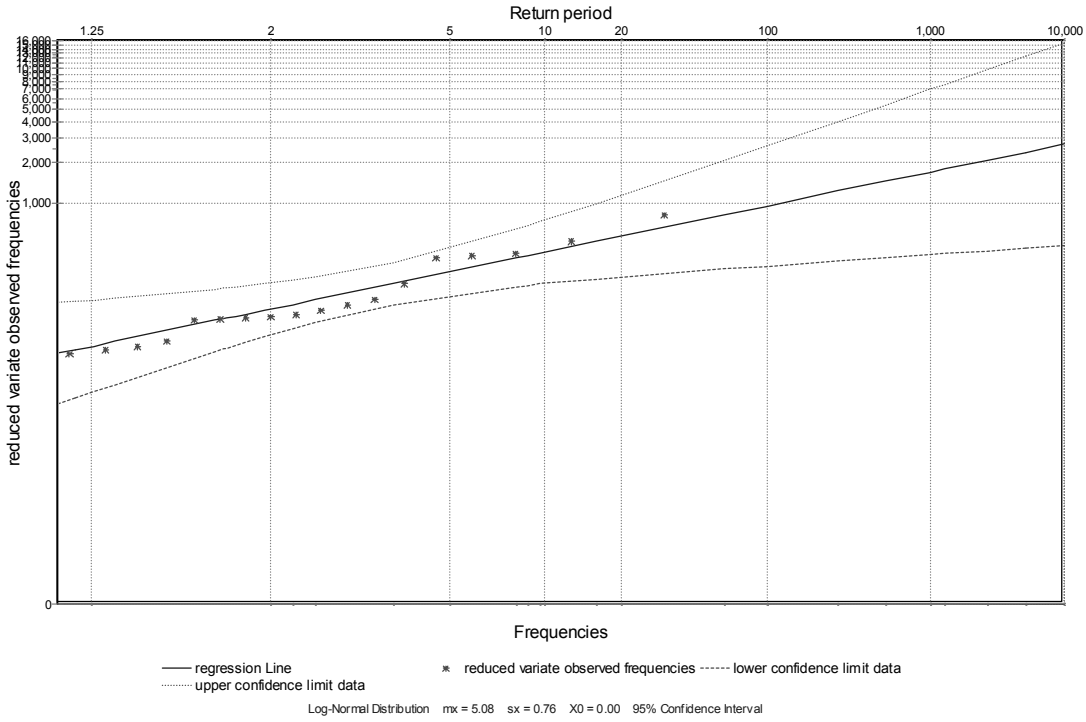


Gumbel Distribution (yearly maximum discharge)



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.25 (1/2)** **Frequency Distributions** **Kone River at Cay Muong**
JAPAN INTERNATIONAL COOPERATION AGENCY	

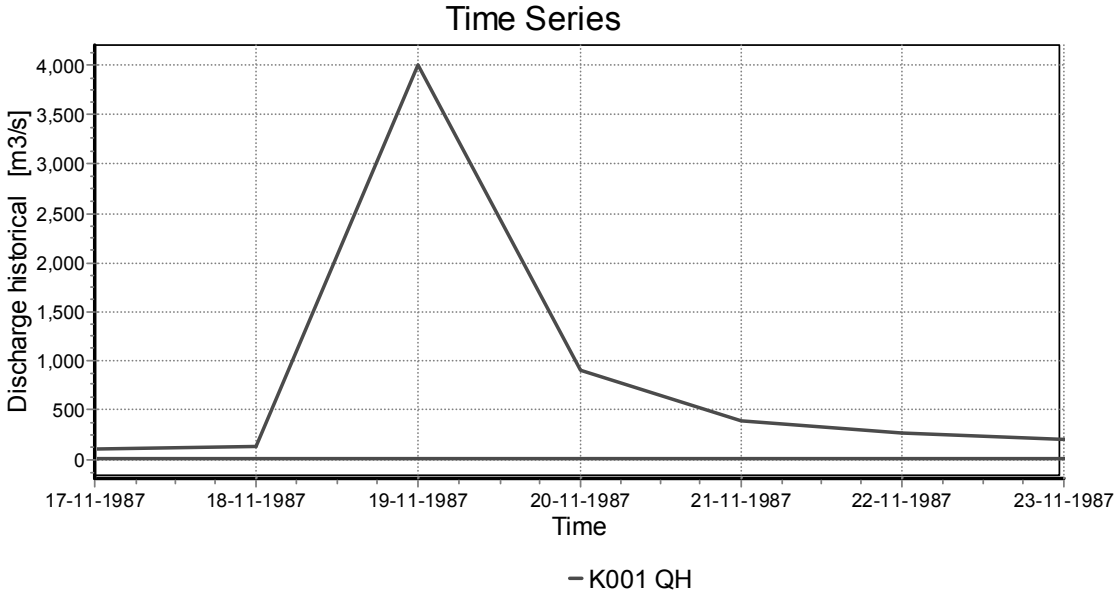
Log-Normal Distribution (yearly early maximum discharge)



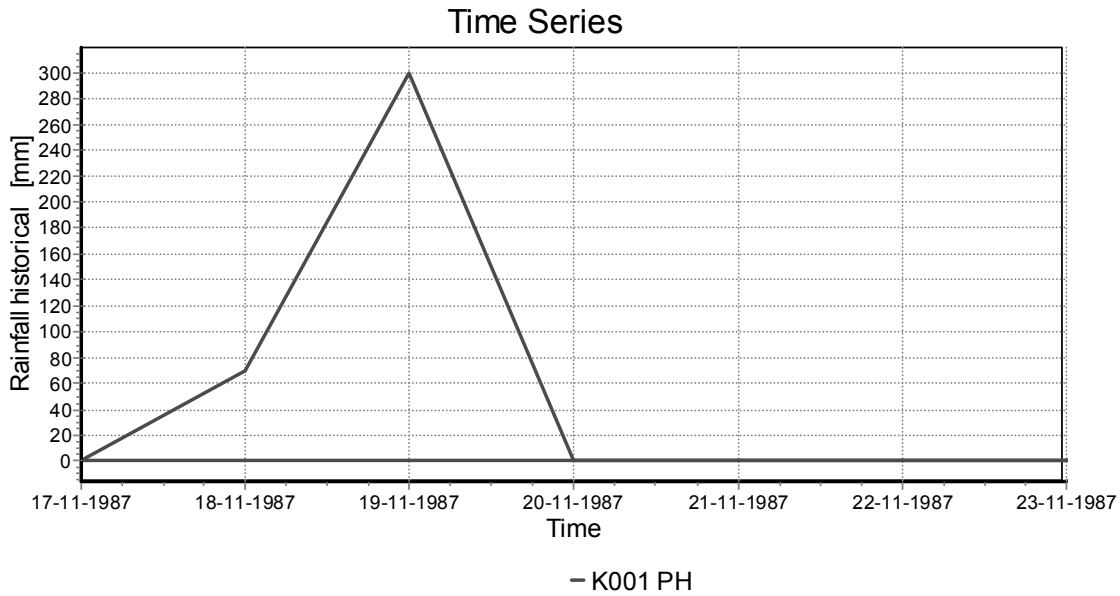
Early Flood Season : January - August

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.25 (2/2)** **Frequency Distributions** **Kone River at Cay Muong**
JAPAN INTERNATIONAL COOPERATION AGENCY	

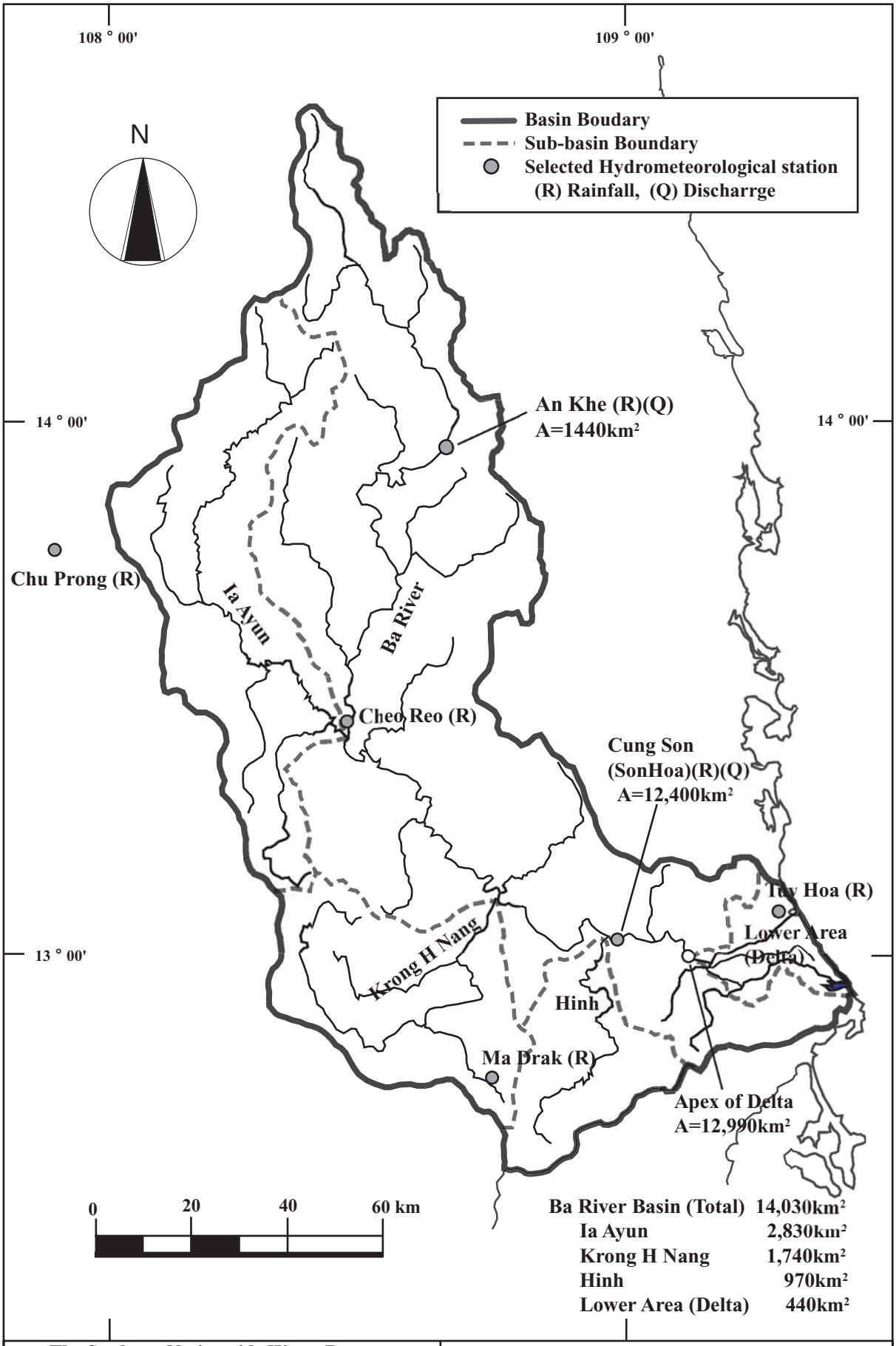
1987 Flood at Cay Muong (instaneous peak discharge: 6,340 m3/s)



Kone Basin Area Rainfall (upstream Cay Muong)

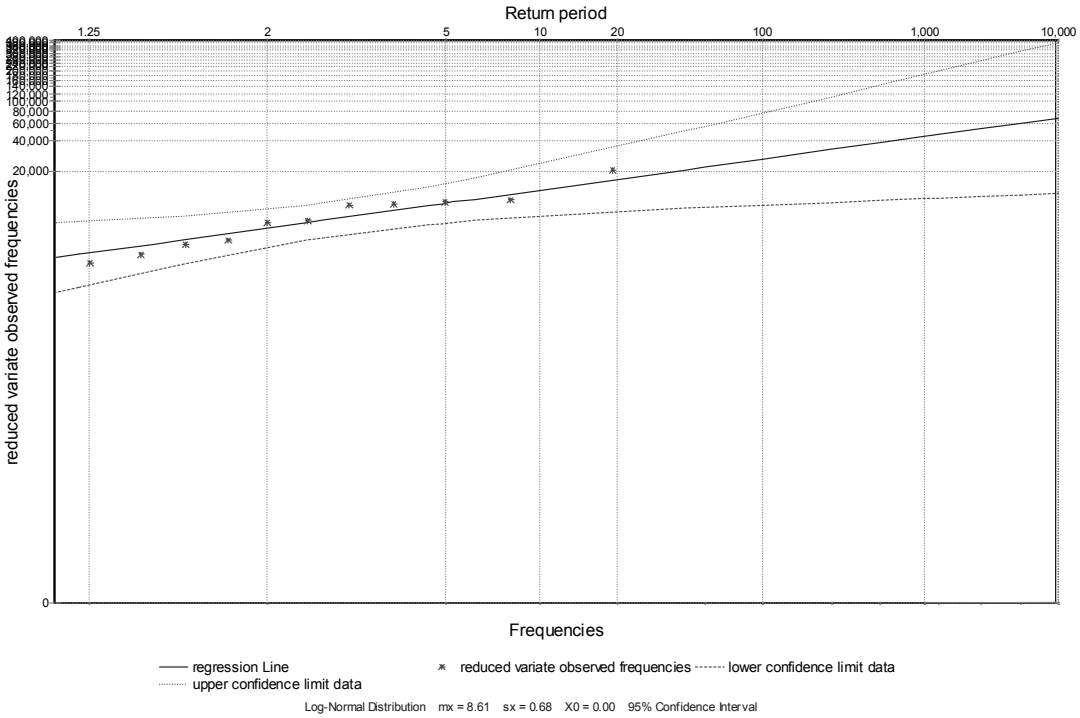


The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam JAPAN INTERNATIONAL COOPERATION AGENCY	**Figure B.26** **Typical Flood** **Kone River at Cay Muong**

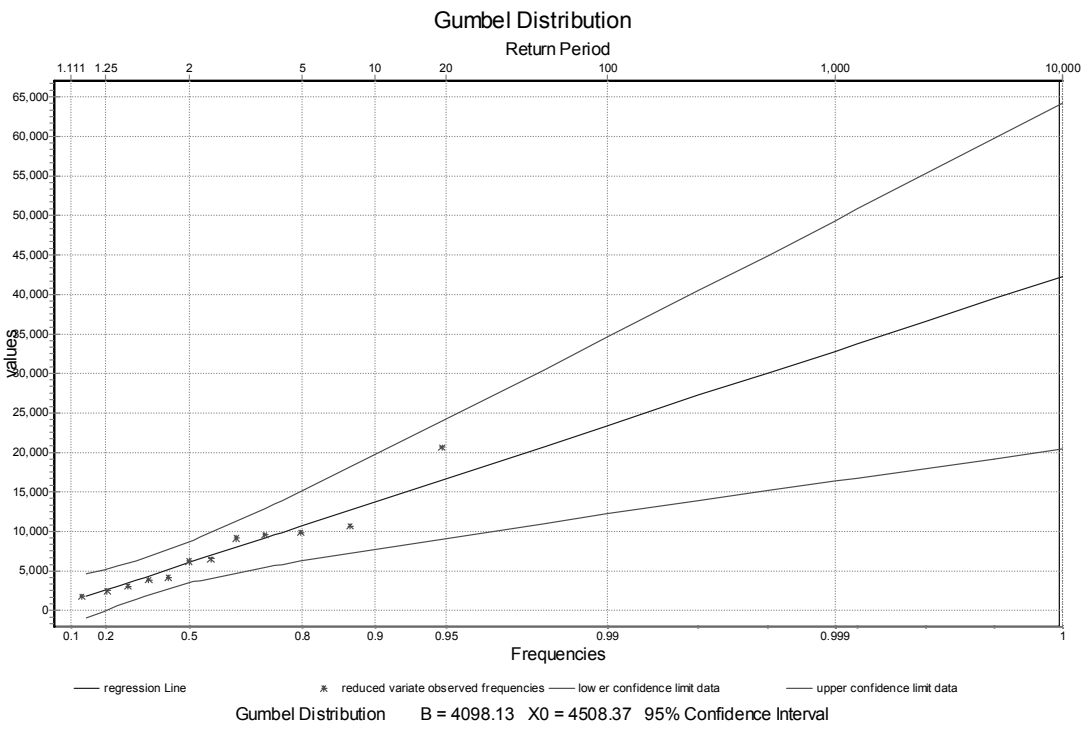


The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	Figure B.27 Location Map Ba River Basin
JAPAN INTERNATIONAL COOPERATION AGENCY	

Log-Normal Distribution (yearly maximum discharge)

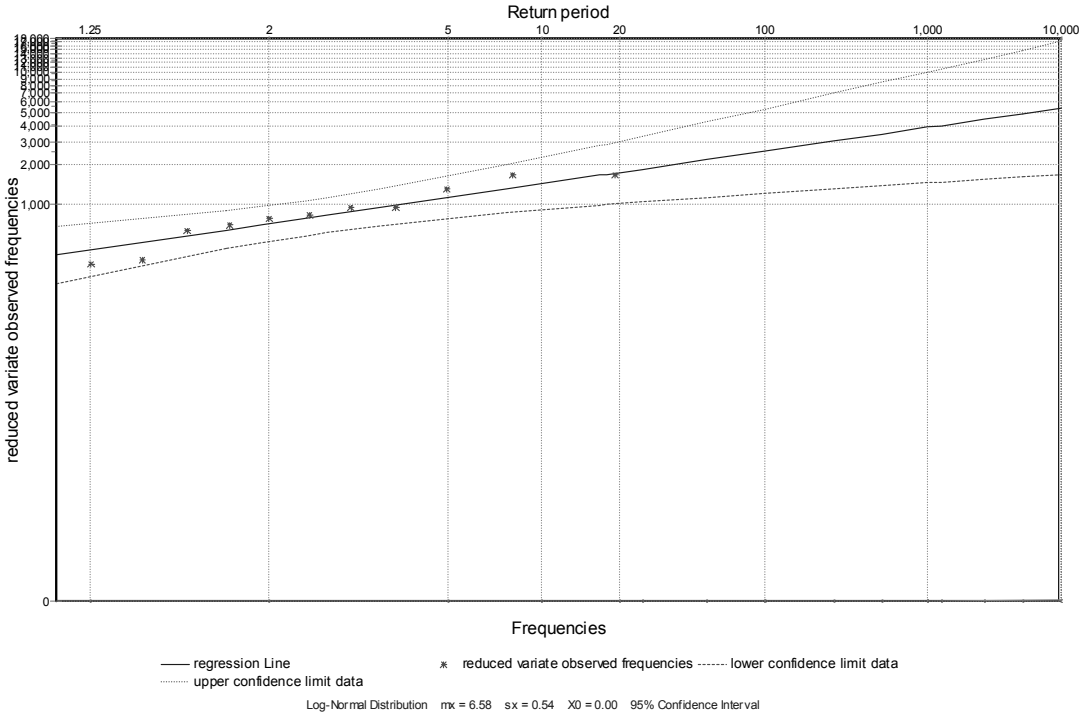


Gumbel Distribution (yearly maximum discharge)

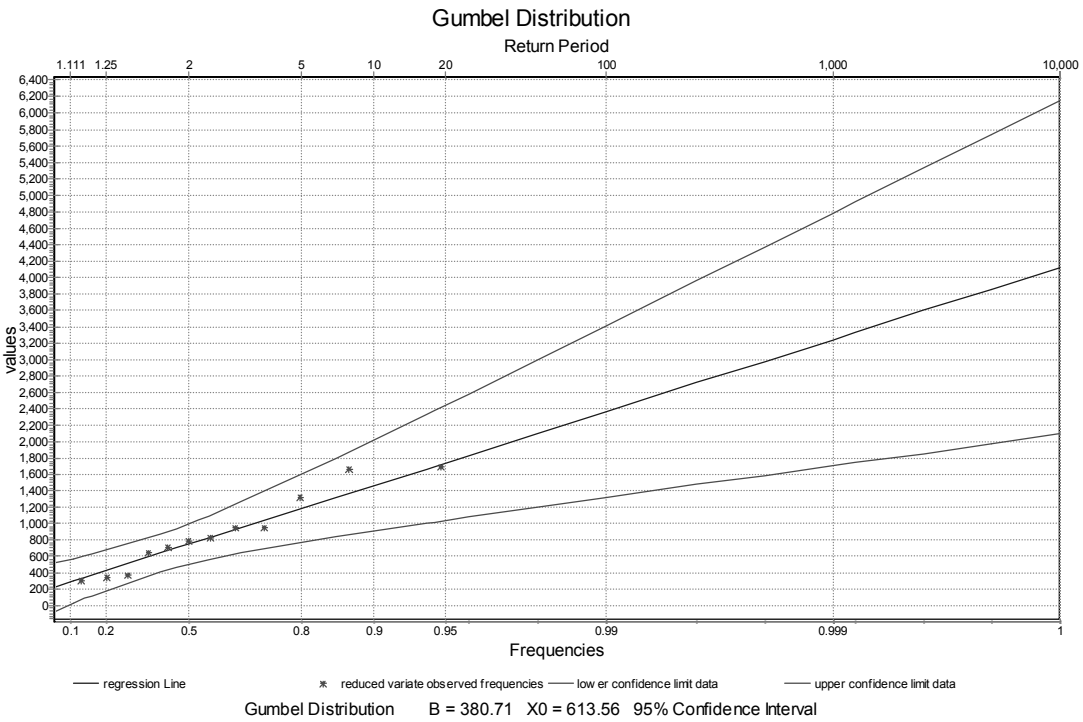


The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.28 (1/2)** **Frequency Distributions** **Ba River at Cung Son**
JAPAN INTERNATIONAL COOPERATION AGENCY	

Log-Normal Distribution (yearly early maximum discharge)



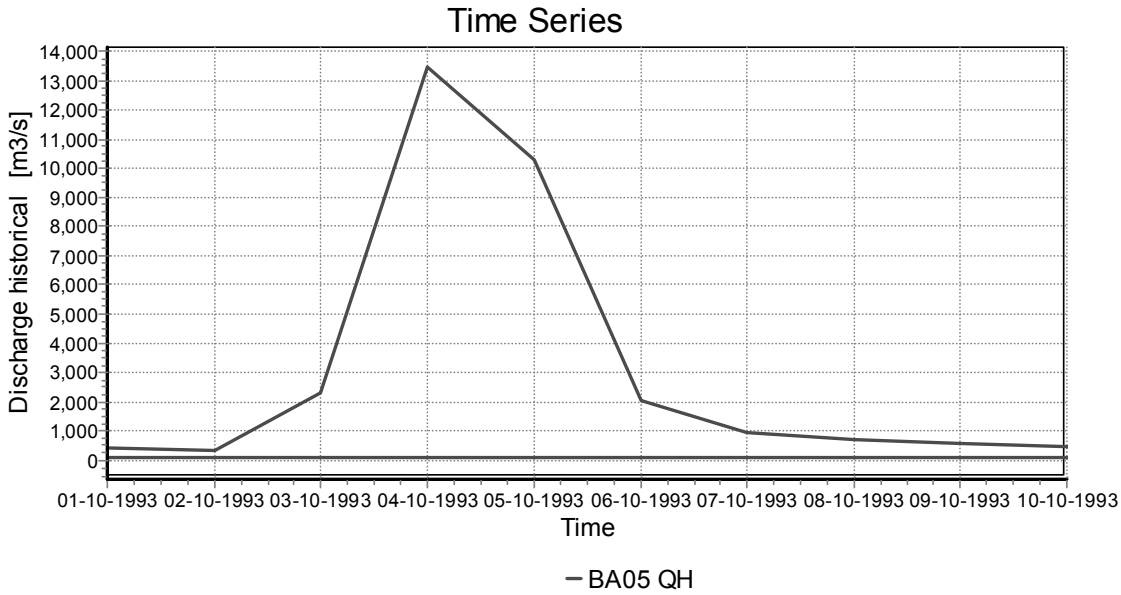
Gumbel Distribution (yearly early maximum discharge)



Early Flood Season : January - August

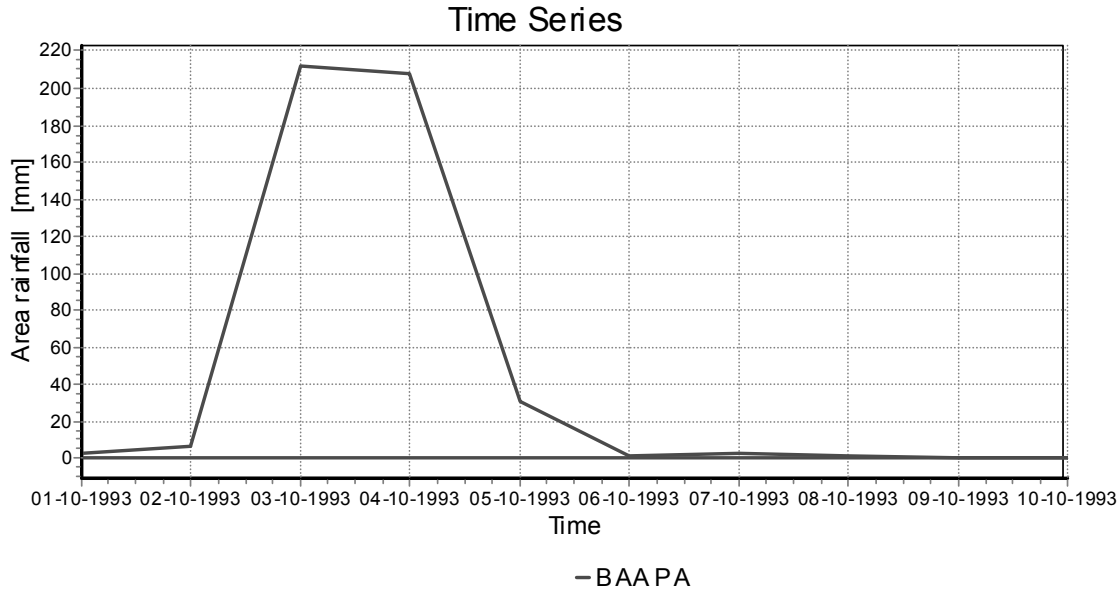
The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.28 (2/2)** **Frequency Distributions** **Ba River at Cung Son**
JAPAN INTERNATIONAL COOPERATION AGENCY	

1993 Flood at Cung Son (instaneous peak discharge: 20,700 m3/s)



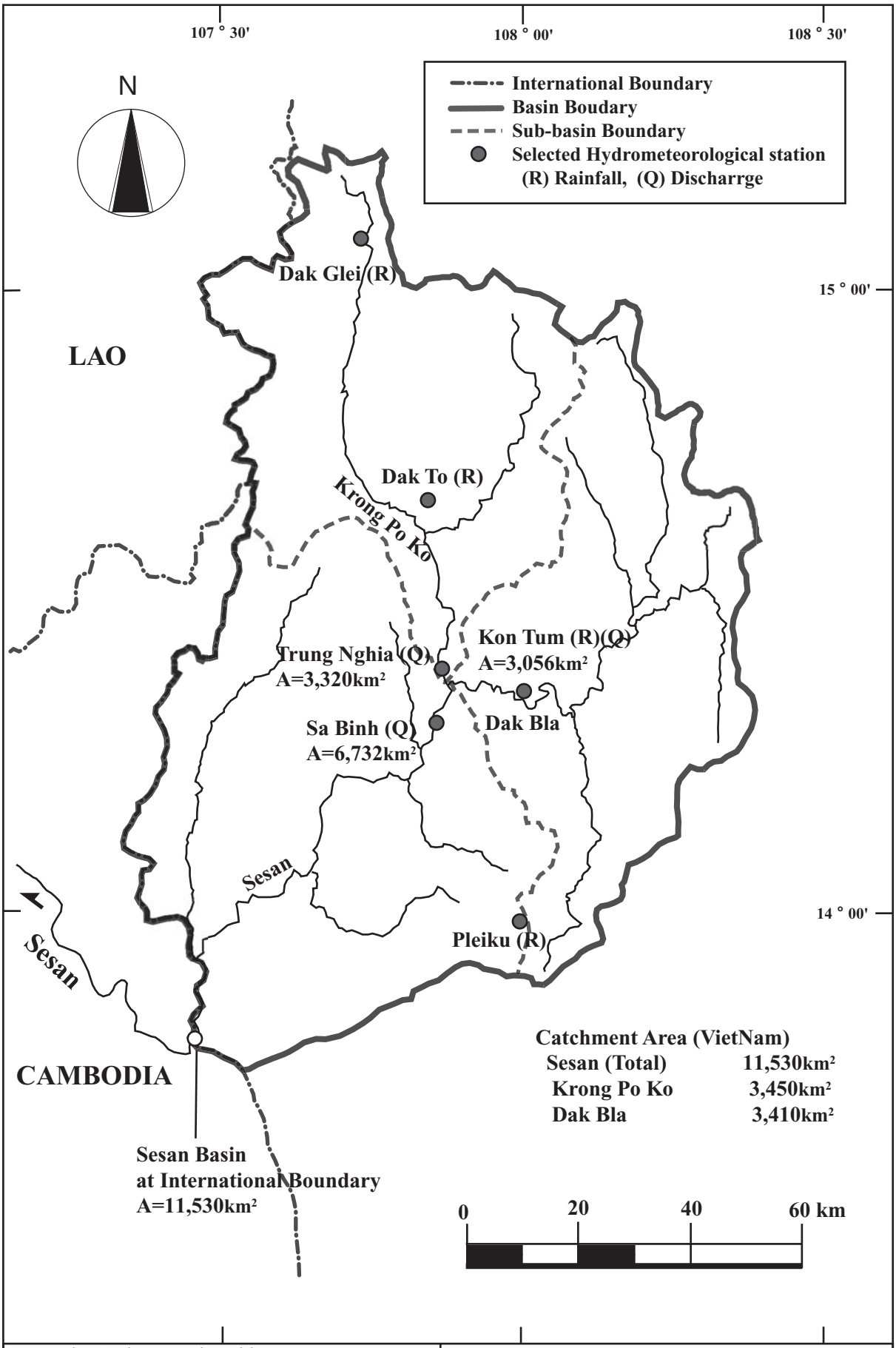
estimated flood volume: 3,000Mm3

Ba Basin Area Rainfall (upstream Cung Son)



estimated 2-day rainfall volume: 5,200Mm3

The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.29** **Typical Flood** **Ba River at Cung Son**
JAPAN INTERNATIONAL COOPERATION AGENCY	



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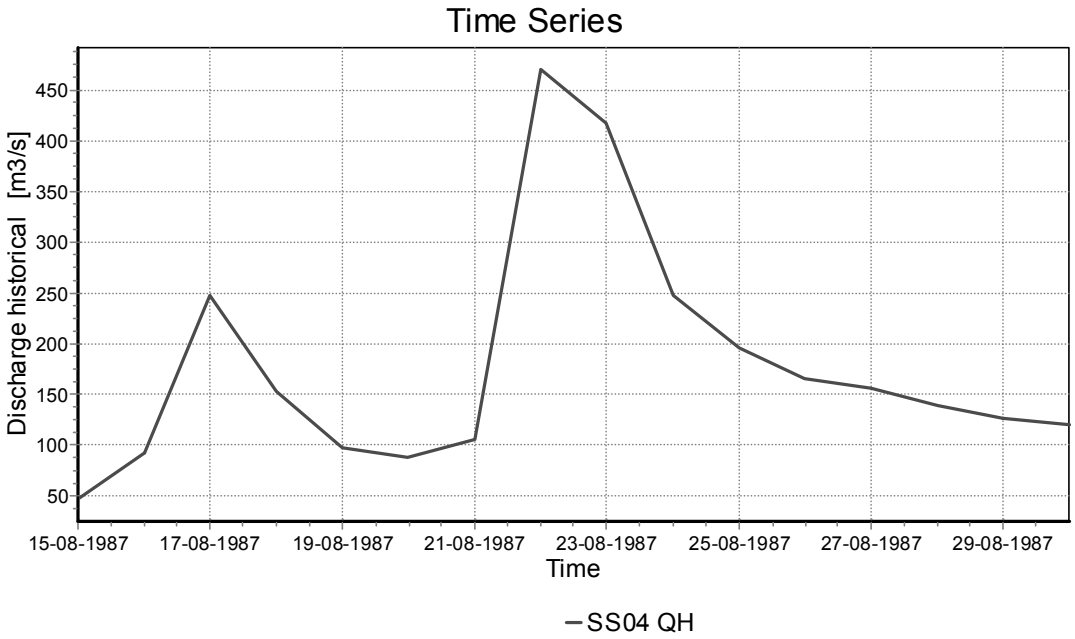
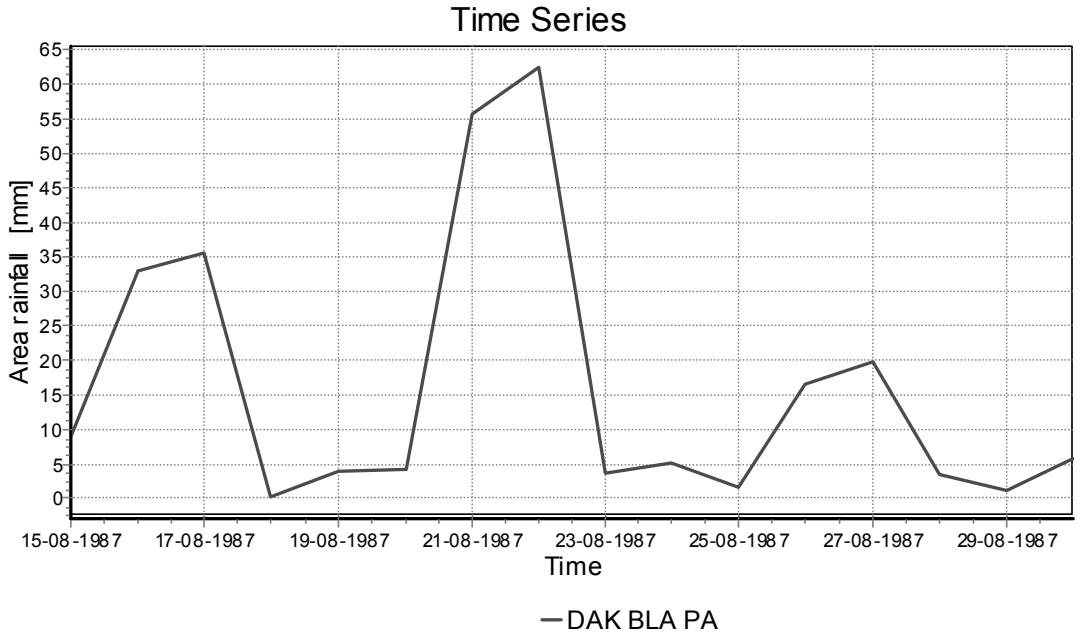
JAPAN INTERNATIONAL COOPERATION AGENCY

Figure B.30
Location Map Sesan River Basin

1987 Flood at KonTum (instaneous peak discharge: 848 m3/s)



Sesan Basin Area Rainfall (upstream Kontum)



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.31** **Typical Flood** **Sesan River at Kontum**
JAPAN INTERNATIONAL COOPERATION AGENCY	

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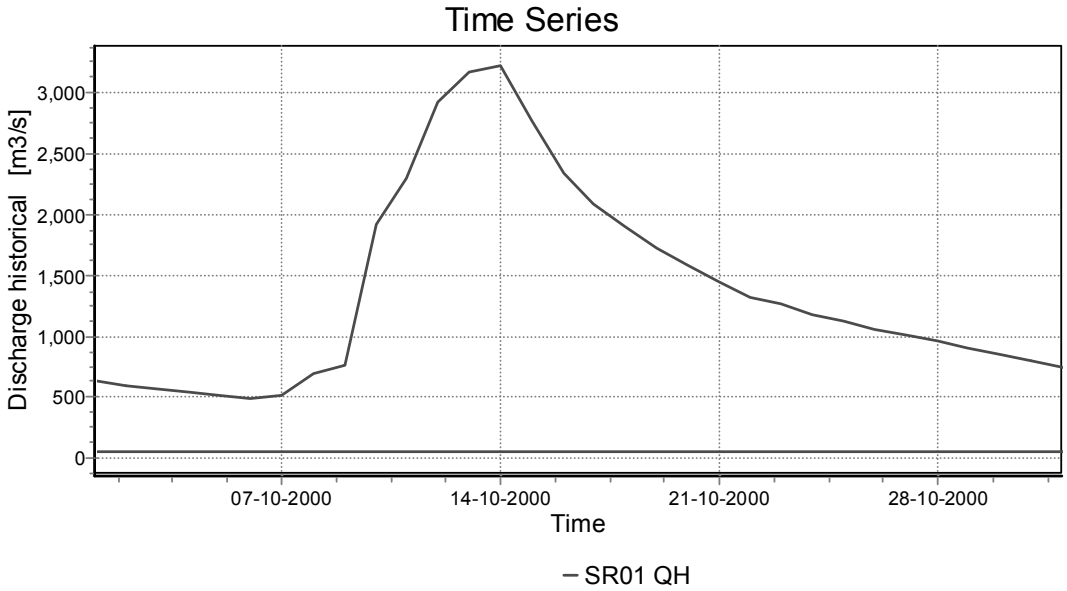
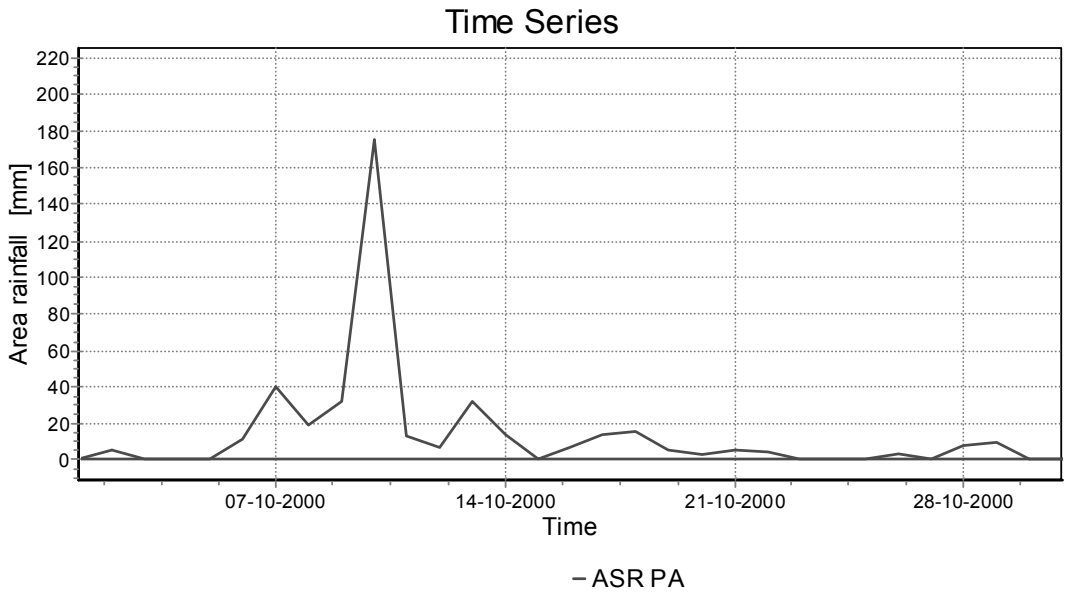
Figure B.32
Location Map Srepok River Basin

2000 Flood at Ban Don (instaneous peak discharge: 3,310 m3/s)

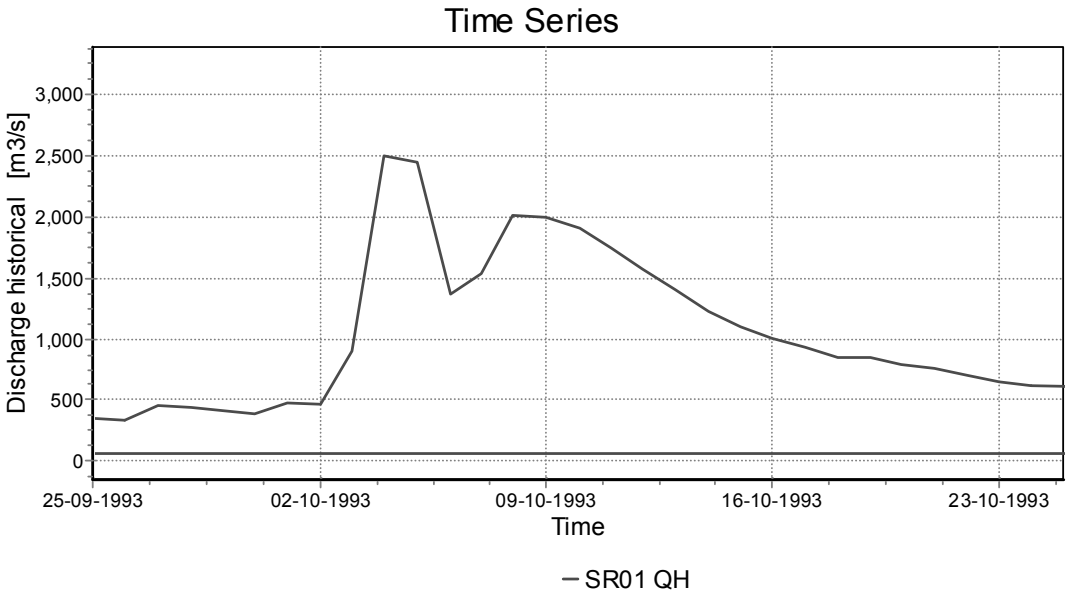


Srepok Basin Area Rainfall (upstream BanDon)

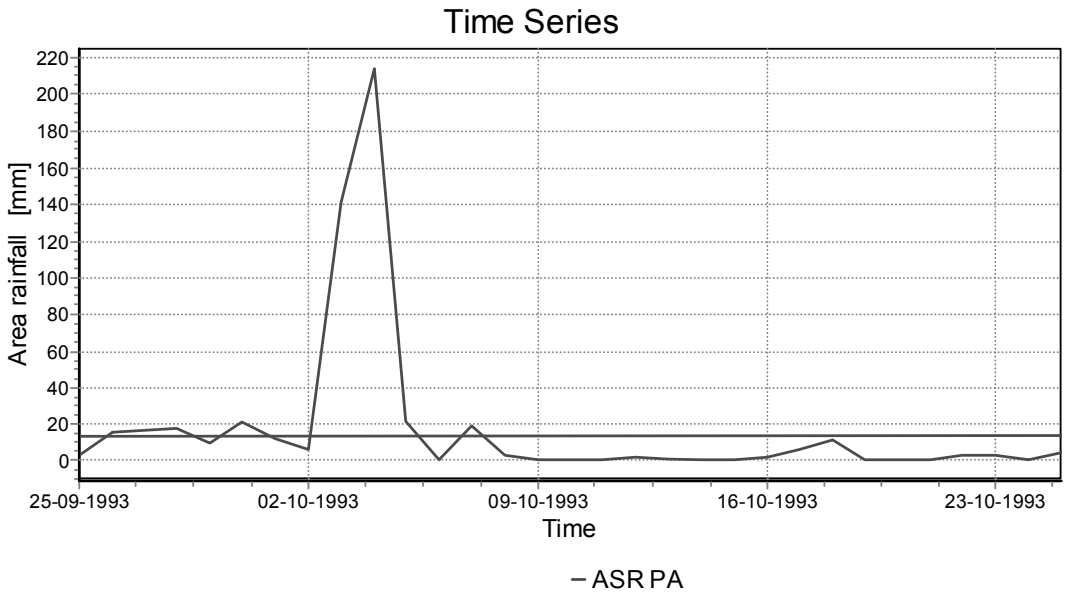


The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.33 (1/2)** **Typical Flood** **Srepok River at Ban Don**
JAPAN INTERNATIONAL COOPERATION AGENCY	

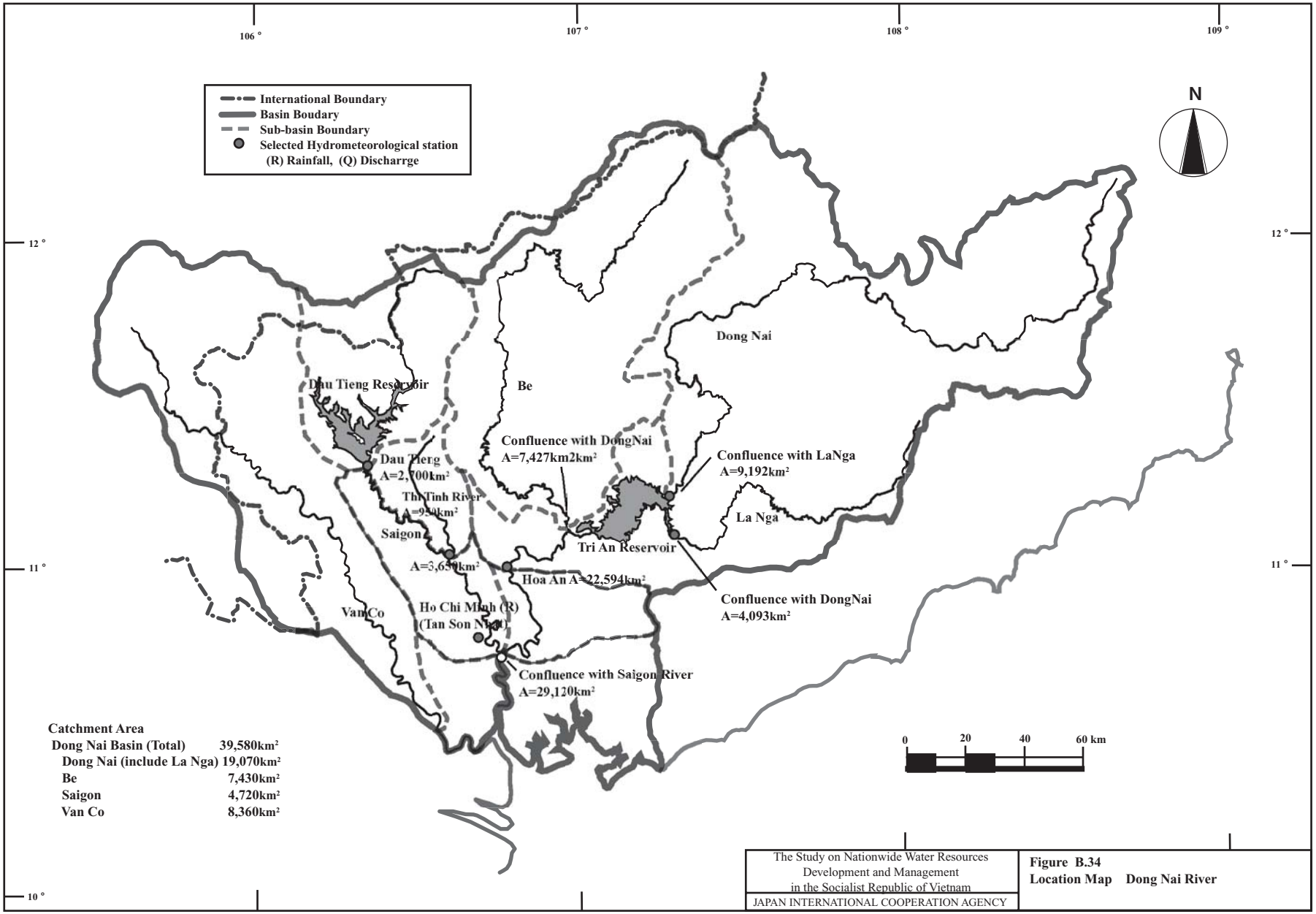
1993 Flood at Ban Don (instaneous peak discharge: 3,310 m3/s)



Srepok Basin Area Rainfall (upstream BanDon)



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.33 (2/2)** **Typical Flood** **Srepok River at Ban Don**
JAPAN INTERNATIONAL COOPERATION AGENCY	



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JAPAN INTERNATIONAL COOPERATION AGENCY

Figure B.34
Location Map Dong Nai River

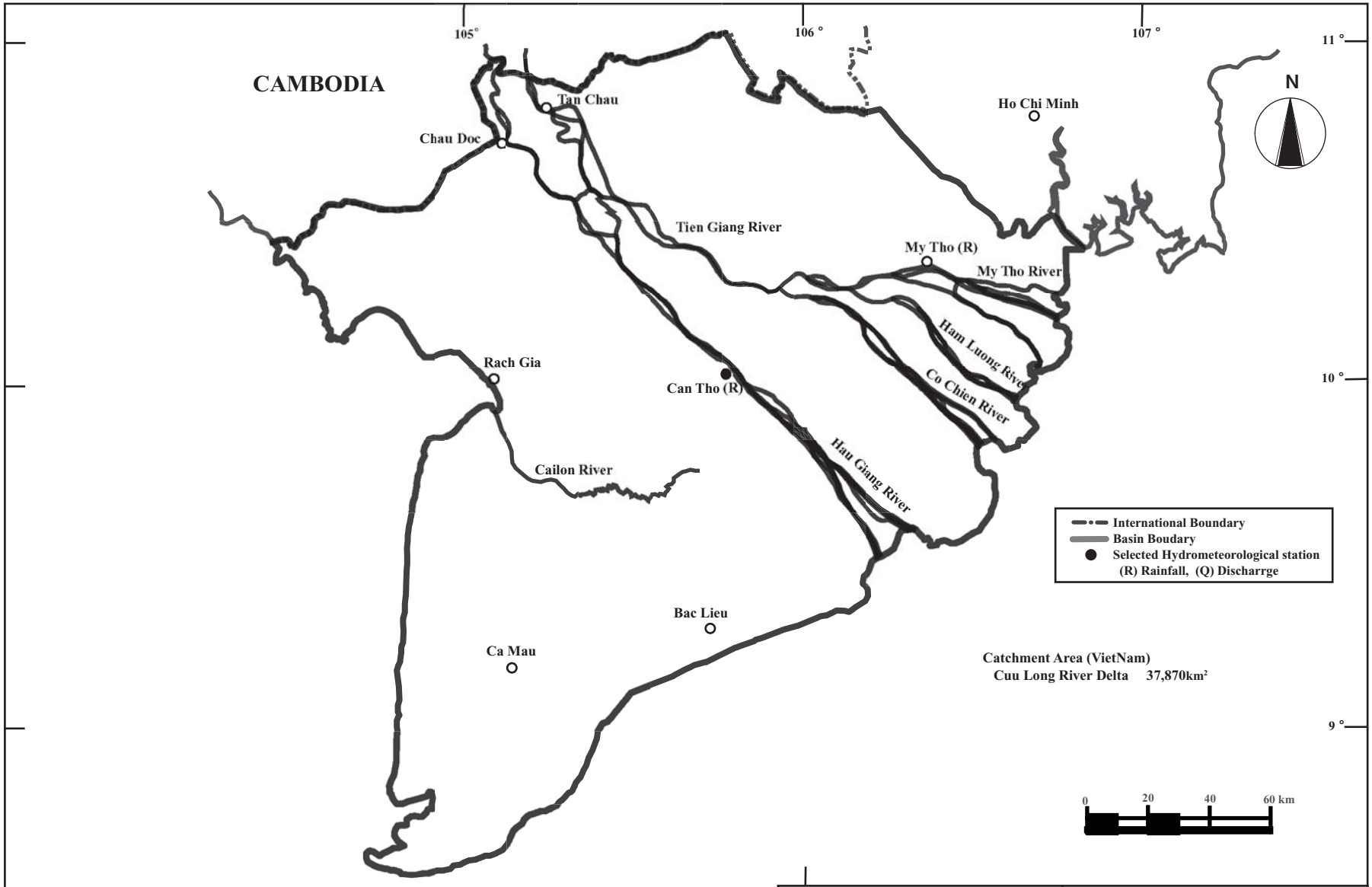

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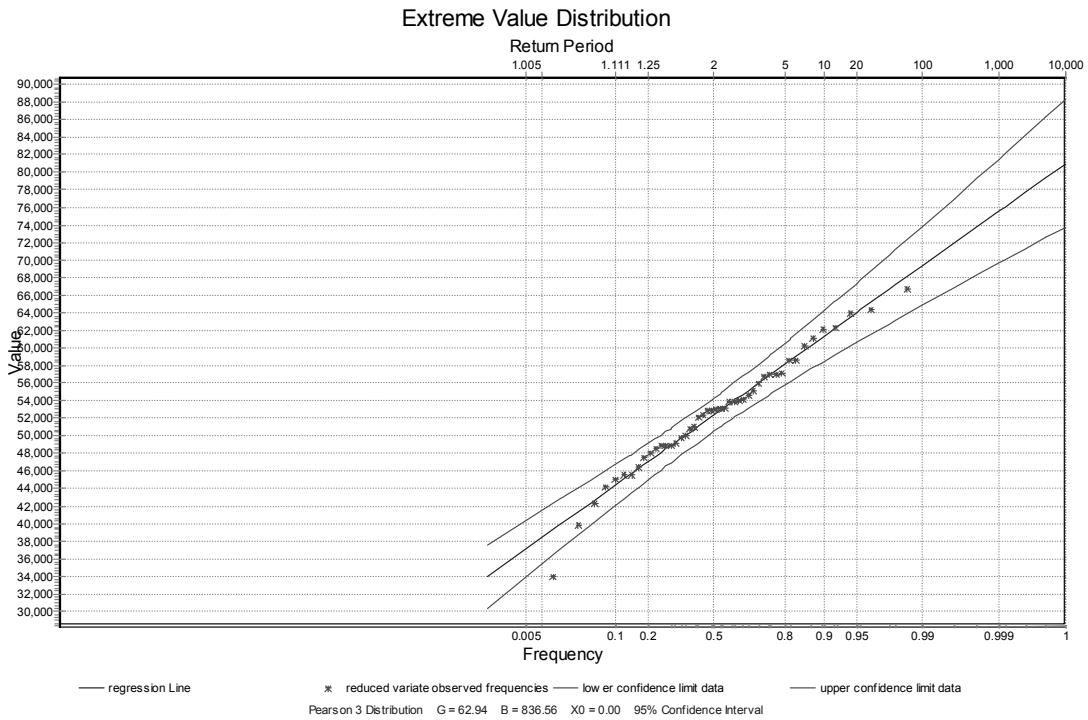
Figure B.35
Location Map Cuu Long River Delta Basin

Pearson 3 Distribution (yearly maximum discharge)



The Study on Nationwide Water Resources Development and Management in the Socialist Republic of Vietnam	**Figure B.36** **Frequency Distributions Cuu Long River at Kratie**
JAPAN INTERNATIONAL COOPERATION AGENCY	