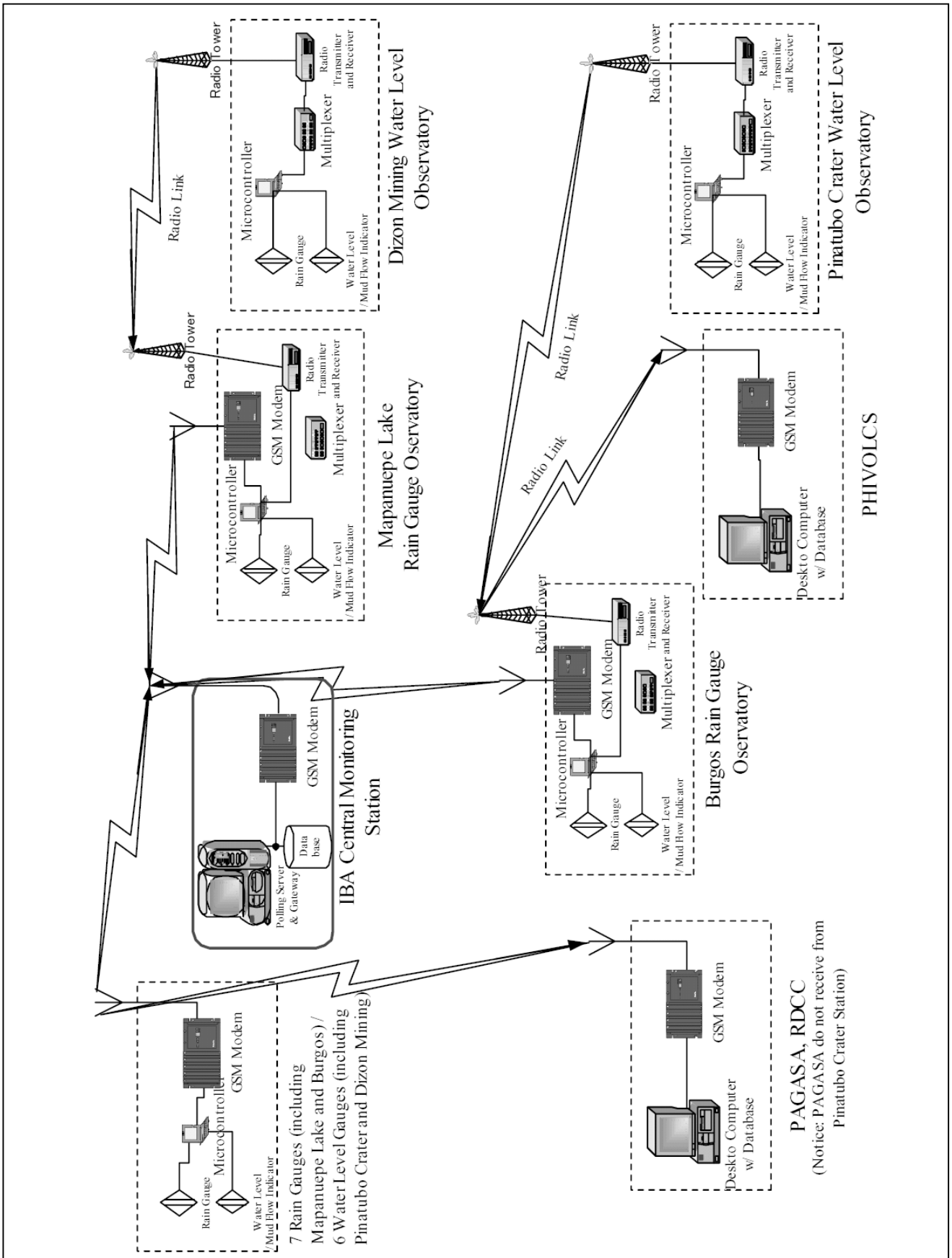

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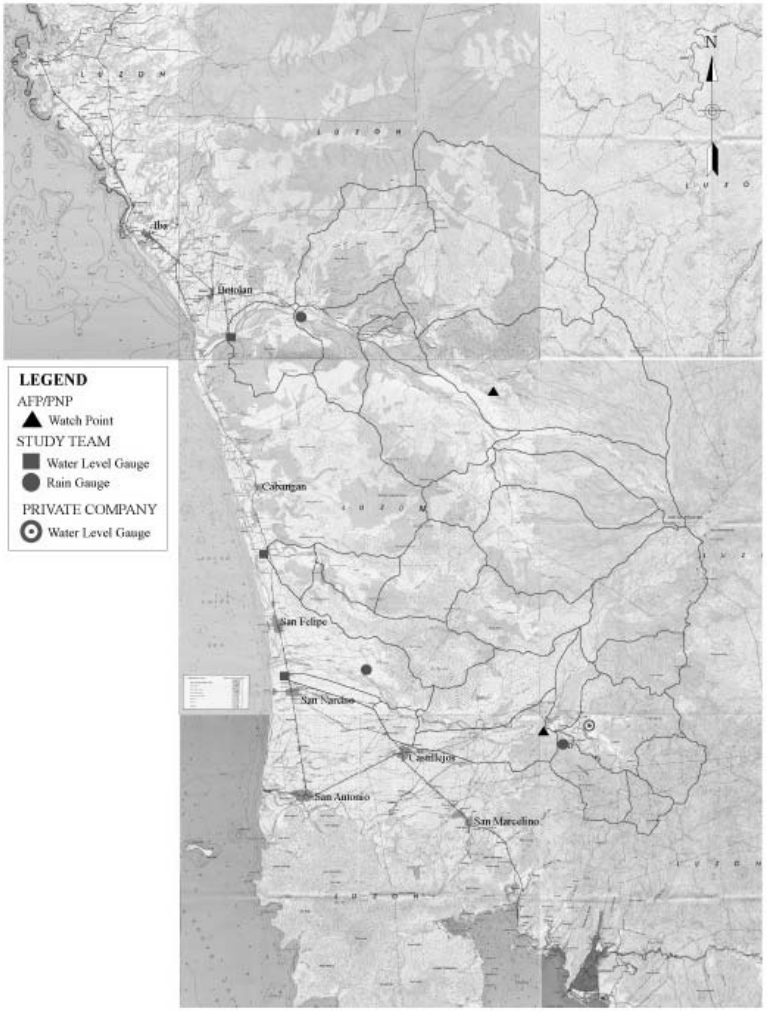
Figure 15.4.2

Data Transmission System



Item	Existing System	Recommended System	Inclusive Private System
Applied Method	- Visual Observation	- Application of Cellular Phone for Data Dissemination	- Visual Observation - Obtained Value from Rainfall Gauge
Administrative Body	- AFP/PNP	- PDCC - PHIVOLCS	- AFP/PNP - Dizon Mining Company - Private Watchman paid by PDCC
No. of Watch / Monitoring Points	- Water Level W-Point :2	- Rainfall Gauging : 7 - Water level Gauging : 6 (11 Stations in Total)	- General Information from Dam Site - Water Level W-Point : 2 - Rainfall Gauging : 1
Warning Issuance Base	- Individual Judgment	- Accumulated rainfall value - Intensity of Rainfall	- Individual Judgment - Accumulated rainfall value
Transmission Path of Information	- Watch points to PDCC (radio wave) PDCC to Barangay (broadcasting by radio)	- Rainfall/Water Level Gauging Station to PDCC (Refer to Figure 15.4.3) - Barangay to Residents (broadcasting by radio /siren) - PDCC to Anybody through Website	- Watch points to AFP/PNP (radio wave) AFP/PNP to PDCC (Telephone) - Dizon Dam Site to Main Office (radio wave) Main Office to PDCC (Telephone) Rainfall Gauging Station to PDCC (Telephone) - PDCC to Barangay (broadcasting by radio)
Amount of Initial Investment	- No Extra Cost	- 182 million yen (around 80 million Peso)	- No Extra Cost
Operation and Maintenance Cost	- As it is.	- Around 1 million pesos	- Petty cash to the watchmen
Effectiveness	- As it is	- Most effective - Data accumulation for monitoring is available	- Better than present
Problems	- Judgment will depend on the personality.	- Initial investment, operation & maintenance cost is extremely high compared with others	- Need negotiation with Dizon mining Company - Judgment will depend on the personality.

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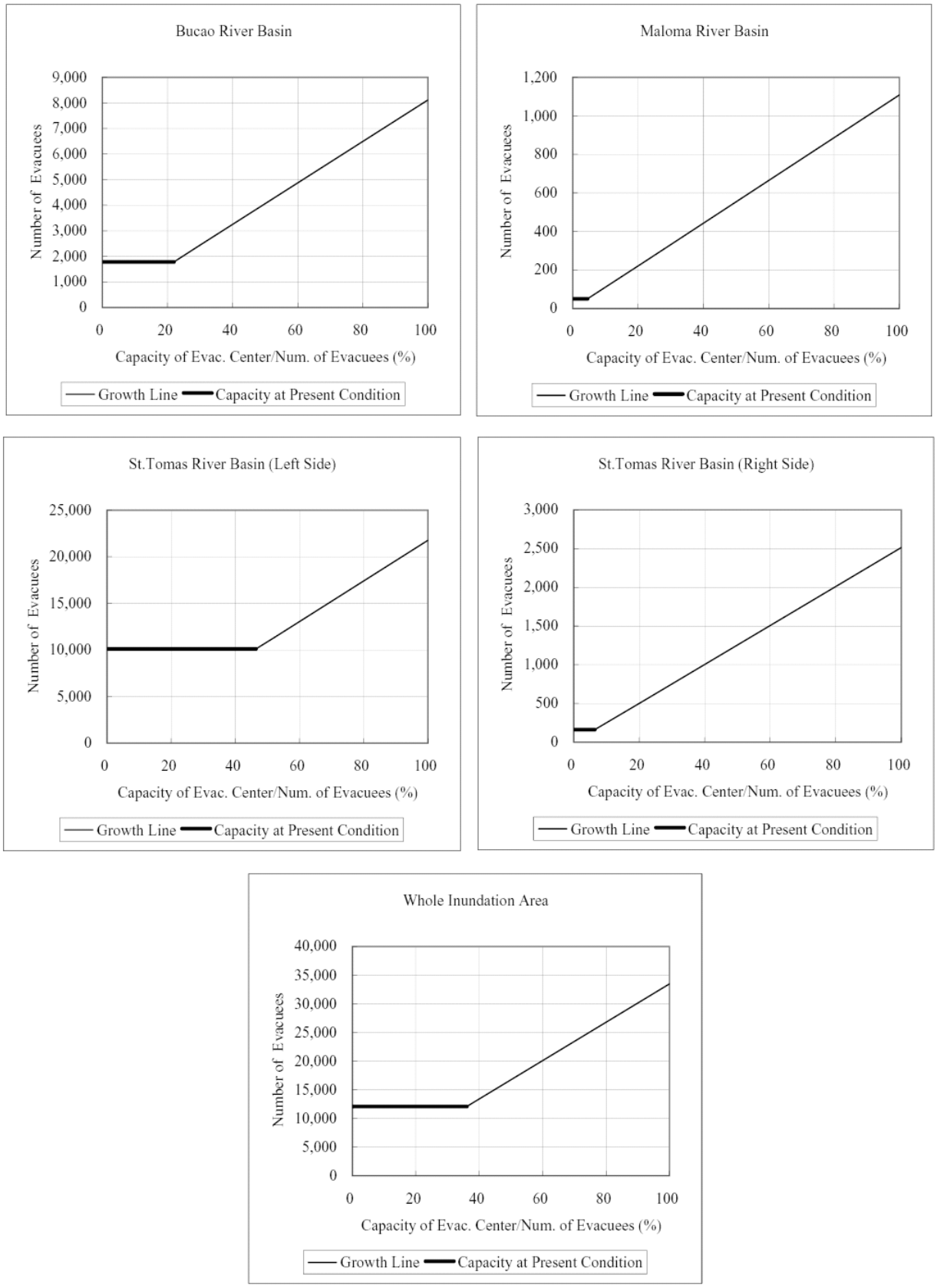
Figure 15.4.3

Step-wise Development on Flood Warning System



THE GOVERNMENT OF THE PHILIPPINES THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	**Figure 15.4.4**
The Study on Sabo and Flood Control for Western River Basins of Mount Pinatubo in the Republic of the Philippines	**Proportion of Capacity of Evacuation Centers to Number of Evacuees**
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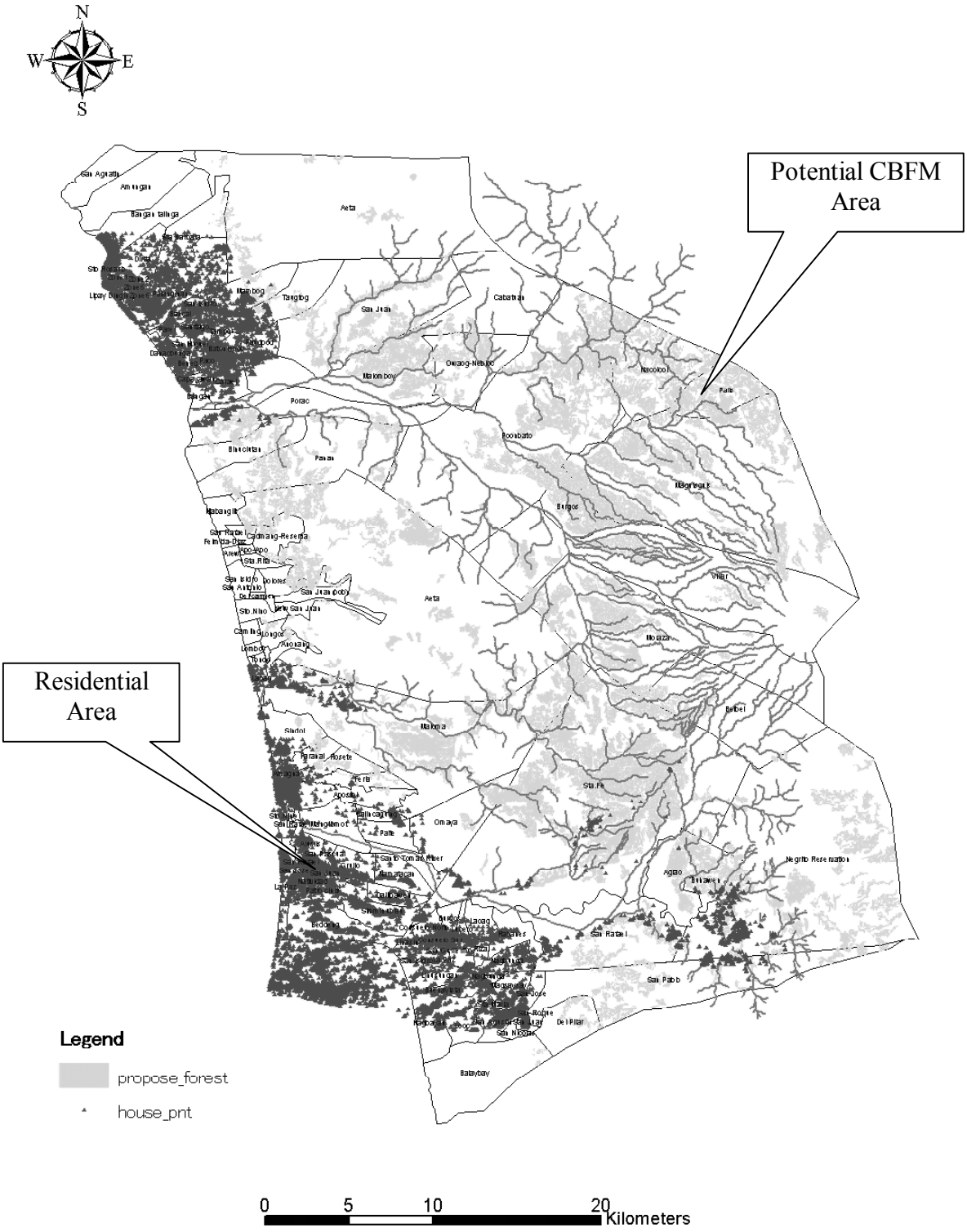

THE GOVERNMENT OF THE PHILIPPINES THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	**Figure 15.6.1**
The Study on Sabo and Flood Control for Western River Basins of Mount Pinatubo in the Republic of the Philippines	**Potential Area of CBFM Program**
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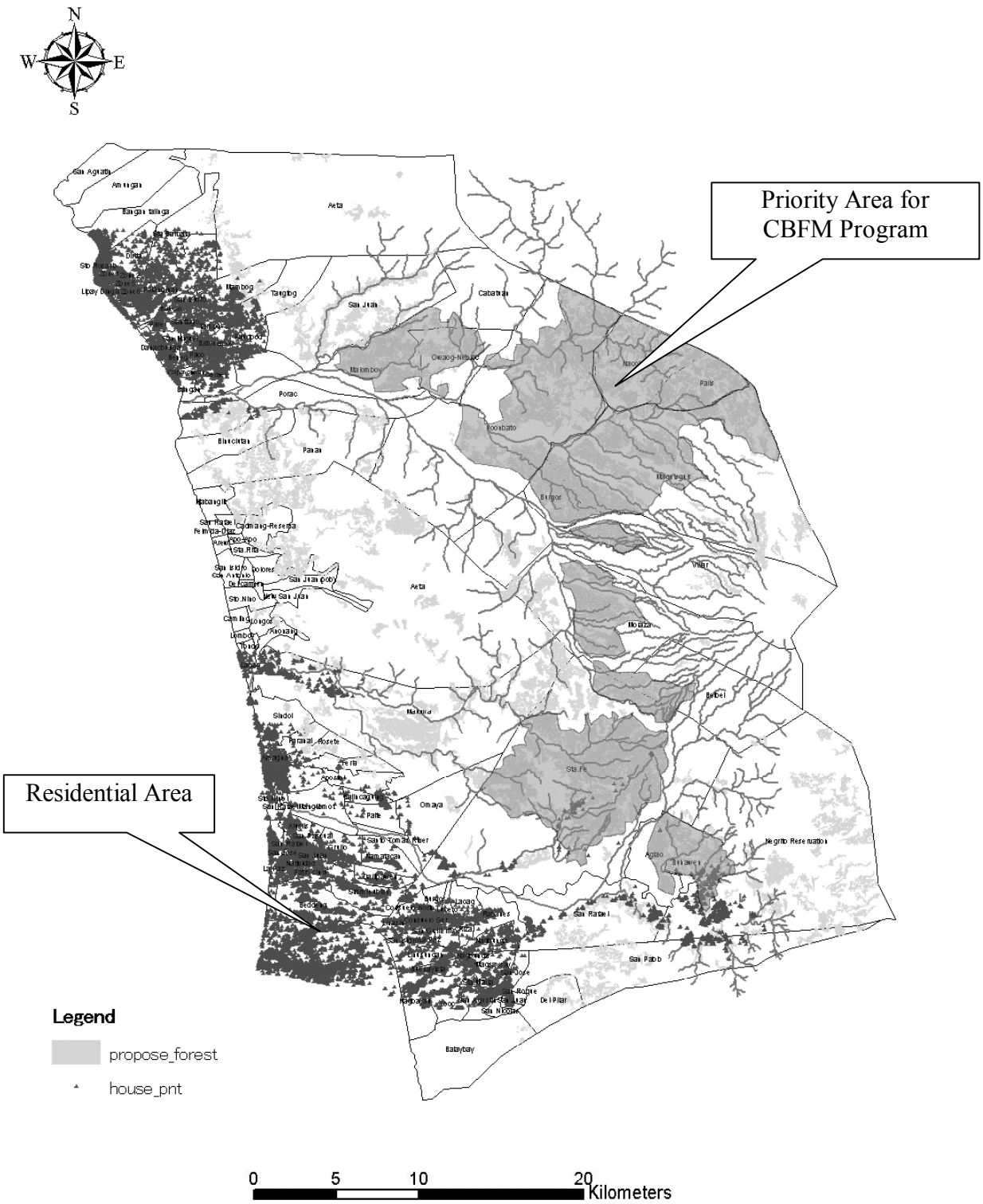

THE GOVERNMENT OF THE PHILIPPINES THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	**Figure 15.6.2**
The Study on Sabo and Flood Control for Western River Basins of Mount Pinatubo in the Republic of the Philippines	**Selected Priority Area of CBFM Program**
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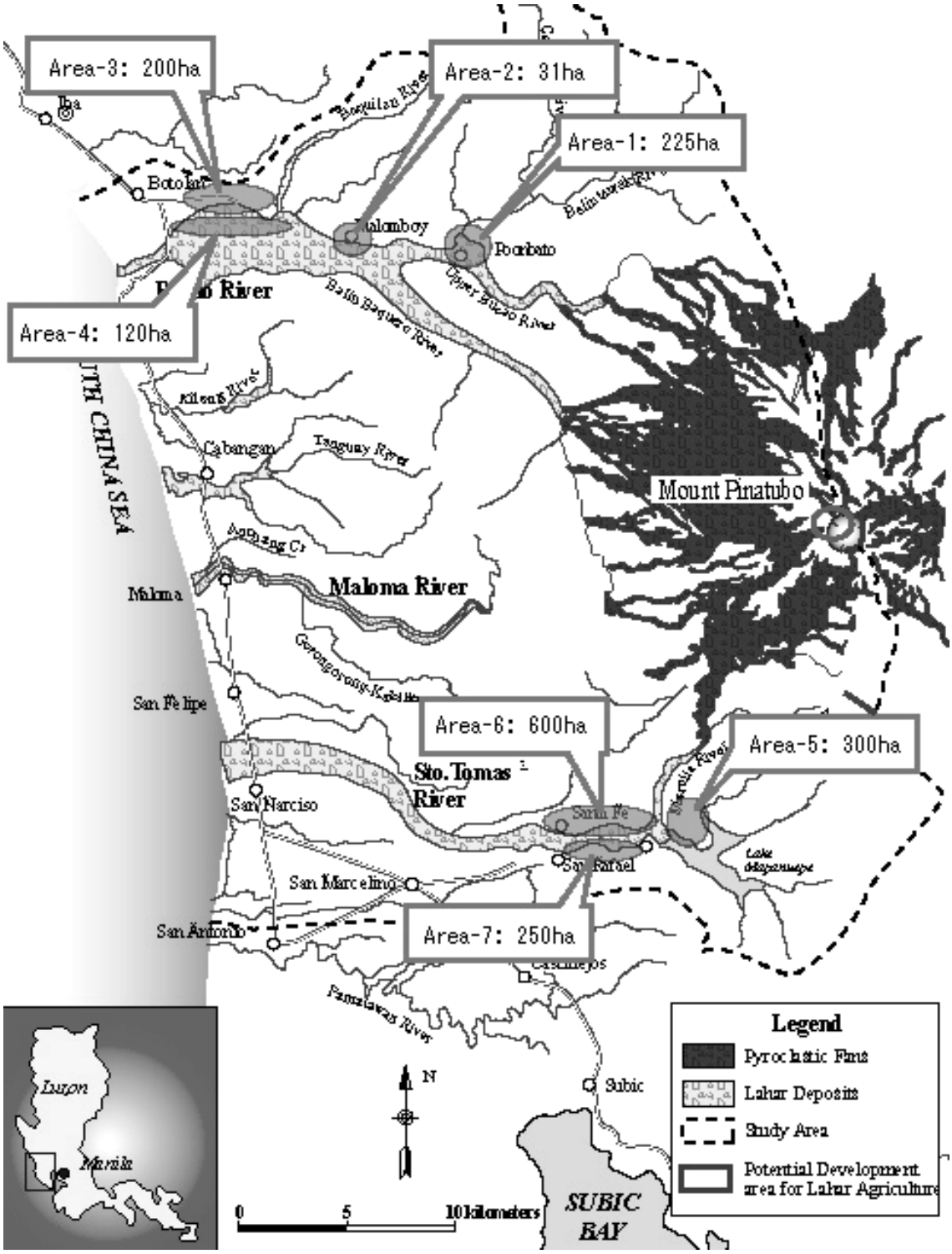

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Figure 15.7.1

Potential Development Area for Agriculture Development on Lahar Area