The 5th GEOSS Asia-Pacific Symposium
2-4 April 2012 Tokyo ,Japan

AWCI Phase 2 Implementation Plan

Thada Sukhapunnaphan
THAILAND

ISSUES

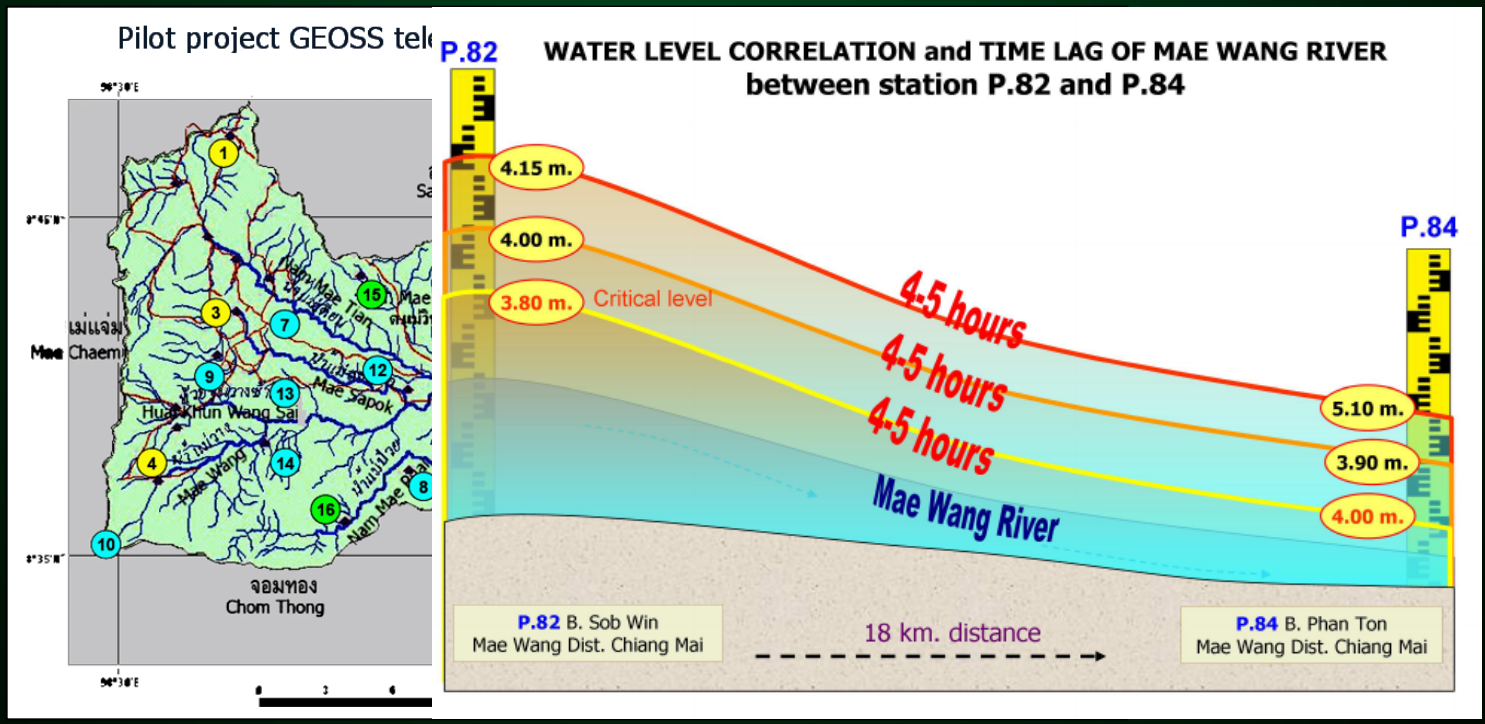
Water-related disasters :
extreme floods and debris flows

THE LACK OF CAPABILITY:

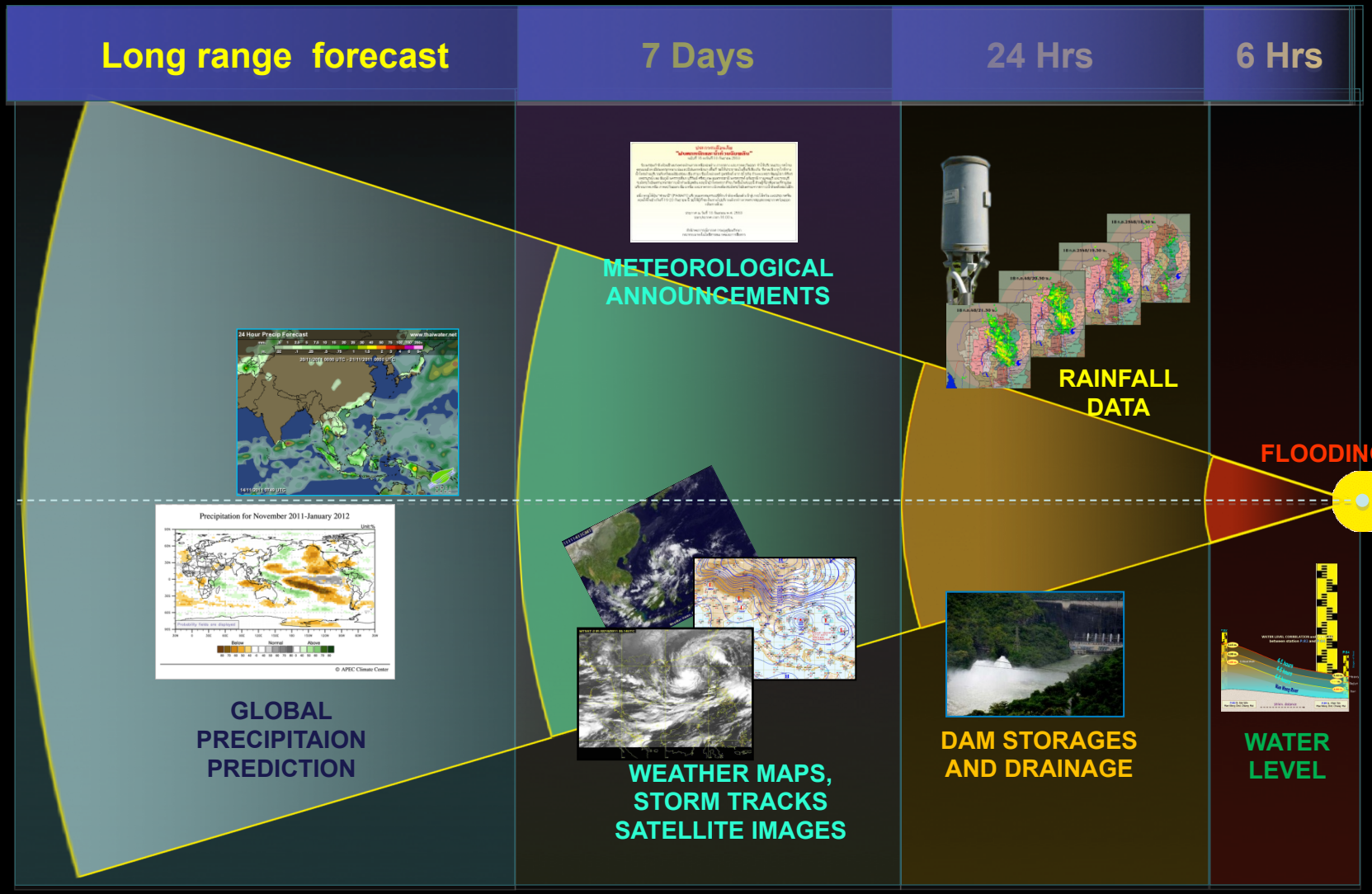
climate change assessment and adaptation at river basin scale / regional scale.

CURRENT PROJECT AND OPERATION

Flood monitoring and early warning system :



EXTENDED RANGES OF EARLY WARNING IN ADVANCE WITH OUTSOURCE INFORMATION



Flood and Landslide Disaster Management System with Public Participation Model

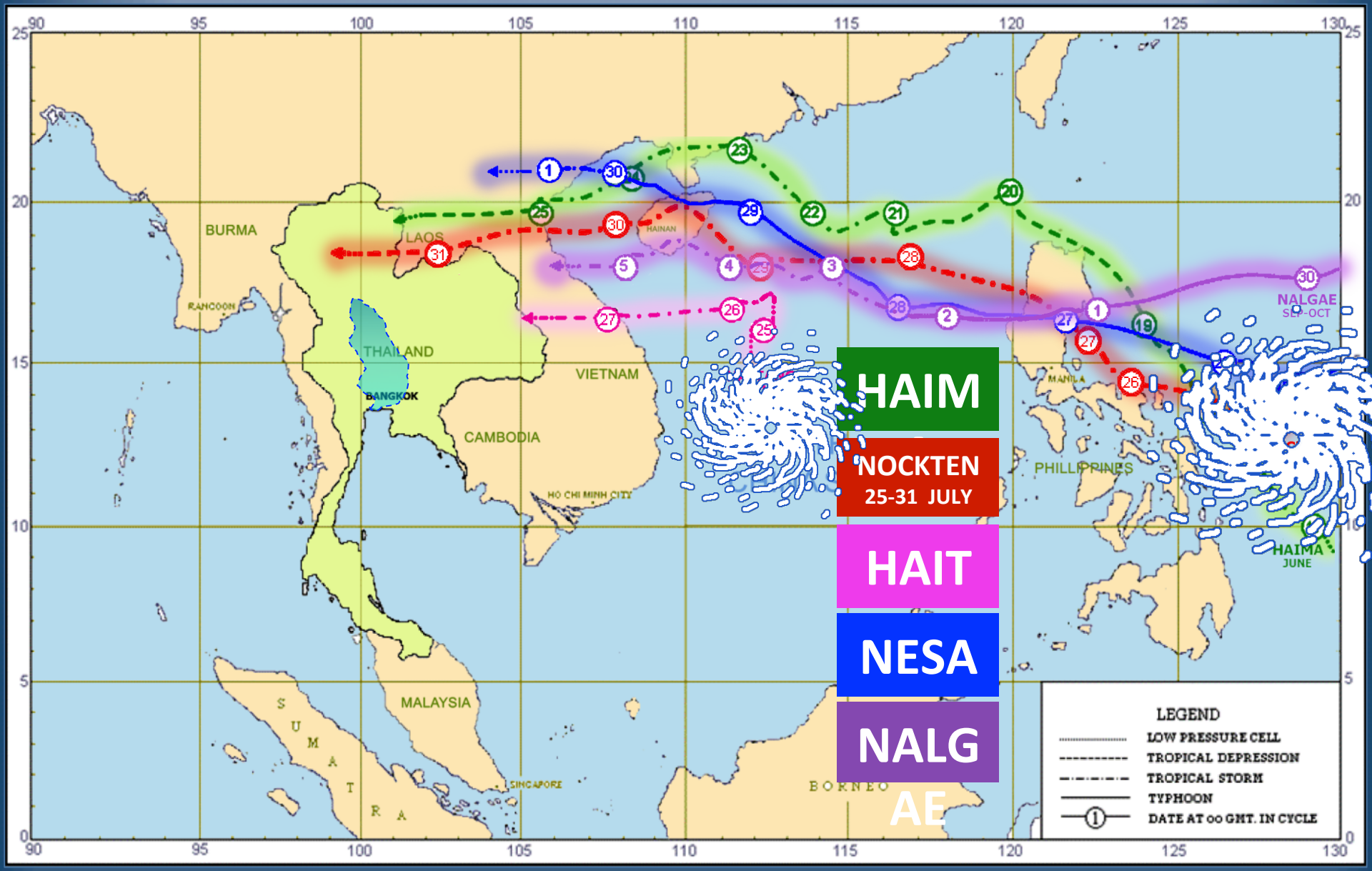
Activity 1 : Finding the appropriate type of observation stations, data survey- collection and report methods with geoinformatic and disaster management system preparing for communities.

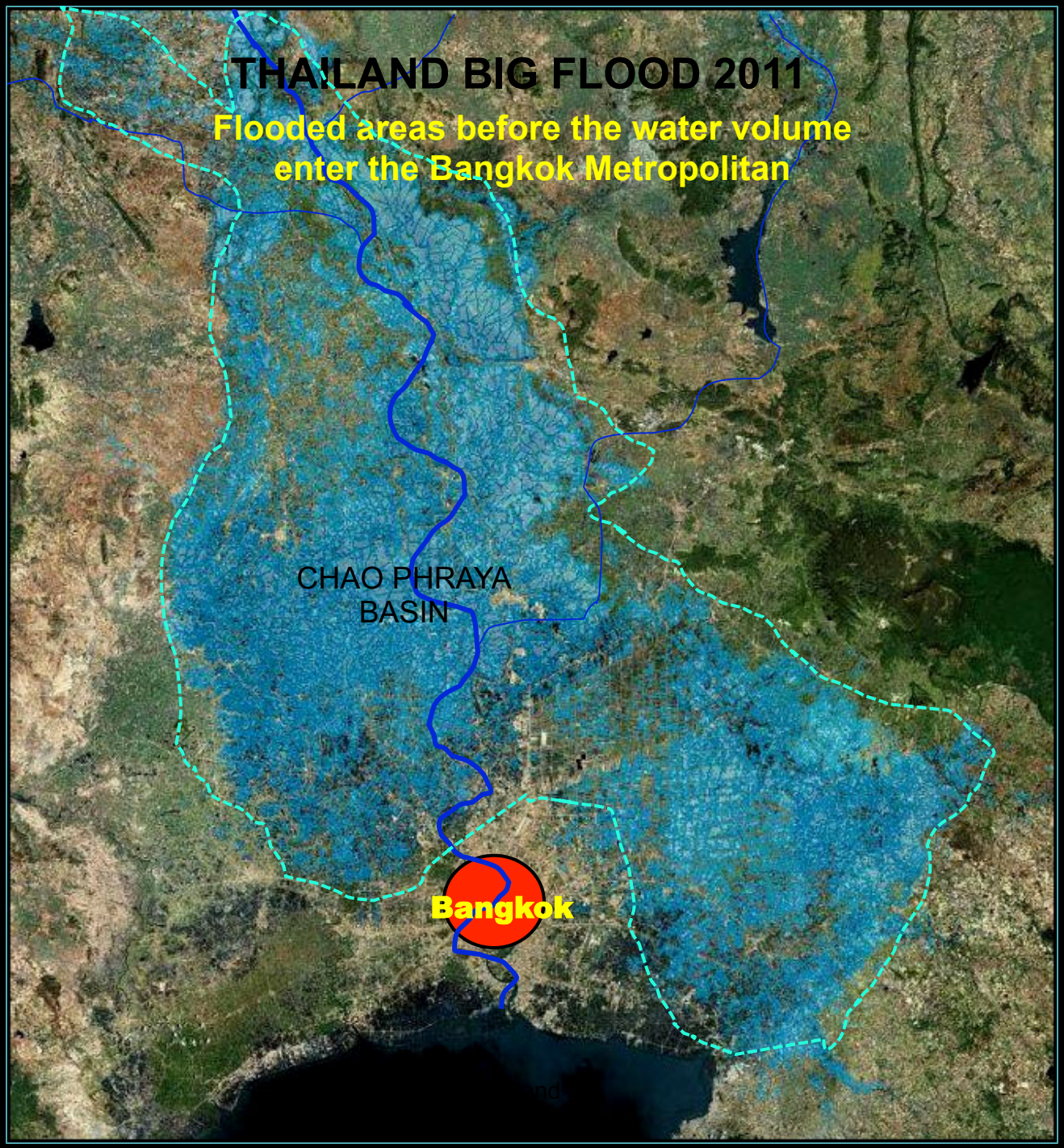
Activity 2 : Rainfall analysis and runoff yield assess by satellite images model.

Activity 3 : Real-time flood and landslide assessment model for upstream area

Activity 4 : Symbolic disaster warning system, technics and steps of warning for public sector.

TROPICAL STORMS AFFECTED THAILAND 2011




THAILAND BIG FLOOD 2011
Flooded areas before the water volume
enter the Bangkok Metropolitan
CHAO PHRAYA
BASIN
Bangkok

CHAO PHRAYA BASIN

Source Rivers :

Ping, Wang, Yom
and Nan
in Northern Thailand

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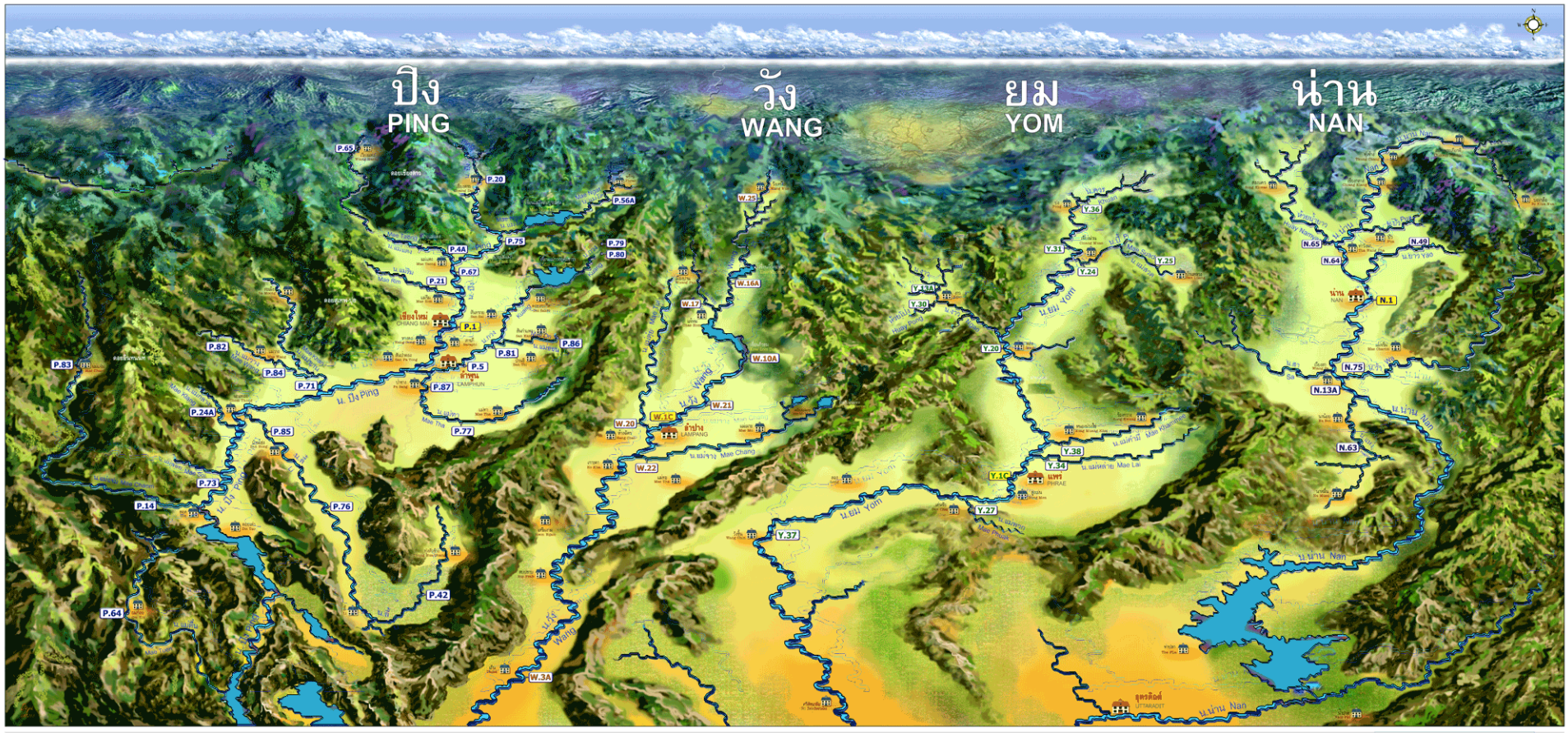


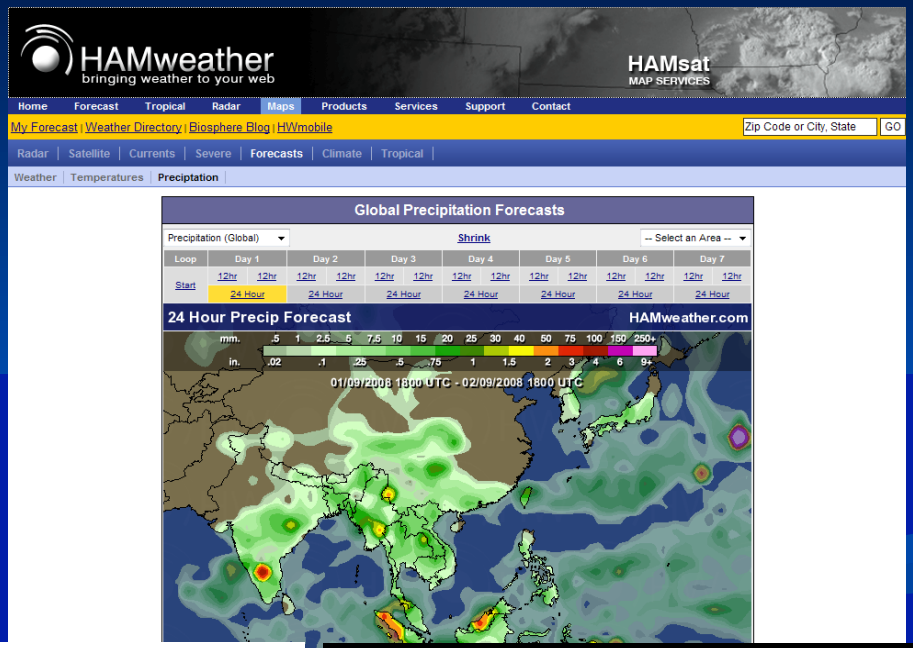
CHAO PHRAYA BASIN

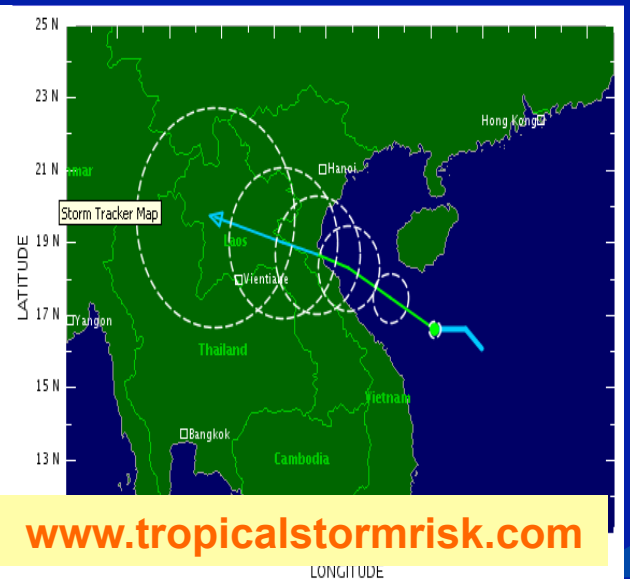
DOWNSTREAM BASIN :

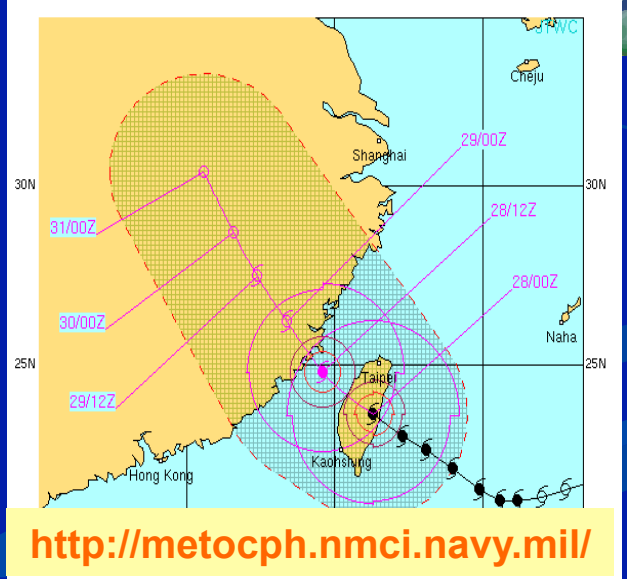
Chao Phraya, Sakae Krang and Pa Sak rivers in Central Plain.

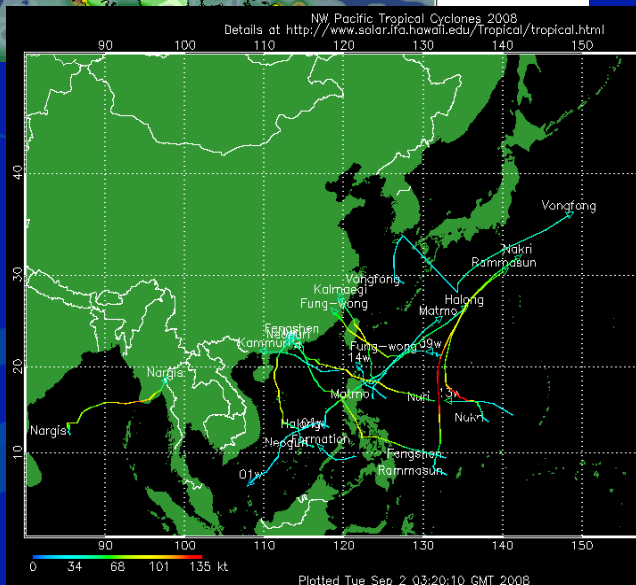
CHAO PHRAYA BASIN
CENTRAL PLAIN

-To develop a radar rainfall and flood forecasting syste
- for both urban and rural area









IMPLEMENTATION PROPOSAL :

- Efficient early warning system
- Flood and landslide predicting and forcasting model for local area
- Data access, data interpretation and data dissemination systems for public sector

NEED :

- Capacity building in enhanced observations, data integration, modeling and downscaling to local conditions

- Satellite Data Processing, Interpretation and its Application in Flood Forecasting and Warning

Thank you for your attention