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

AWCI Phase 2 Implementation Plan

Thada Sukhapunnaphan THAILAND

AWCI Phase 2 Implementation Plan: THAILAND

ISSUES

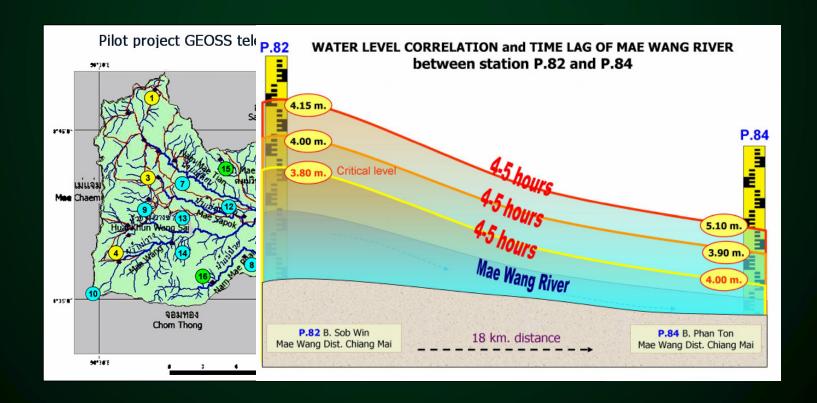
Water-related disasters: extreme floods and debris flows

THE LACK OF CAPABILITY:

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

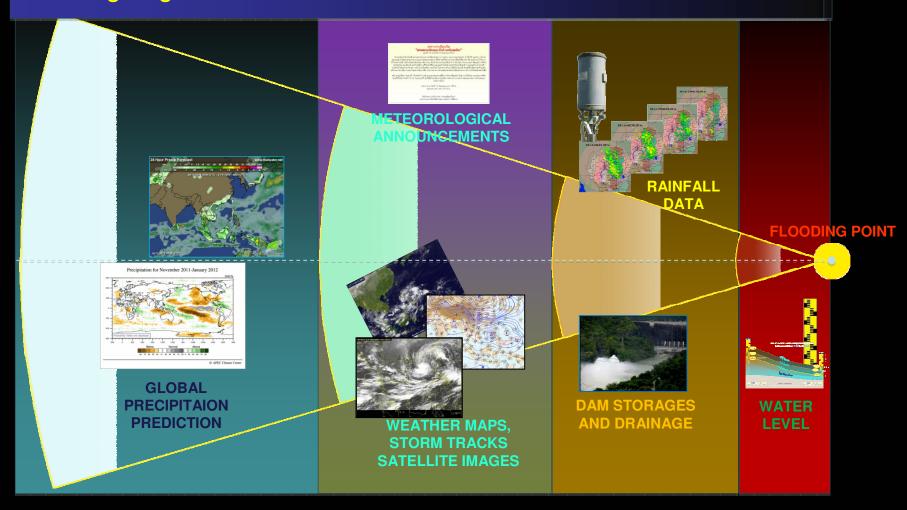
CURRENT PROJECT AND OPERATION

Flood monitoring and early warning system:



EXTENDED RANGES OF EARLY WARNING IN ADVANCE WITH OUTSOURCE INFORMATION

Long range forecast



Flood and Landslide Disaster Management System with Public Participation Model

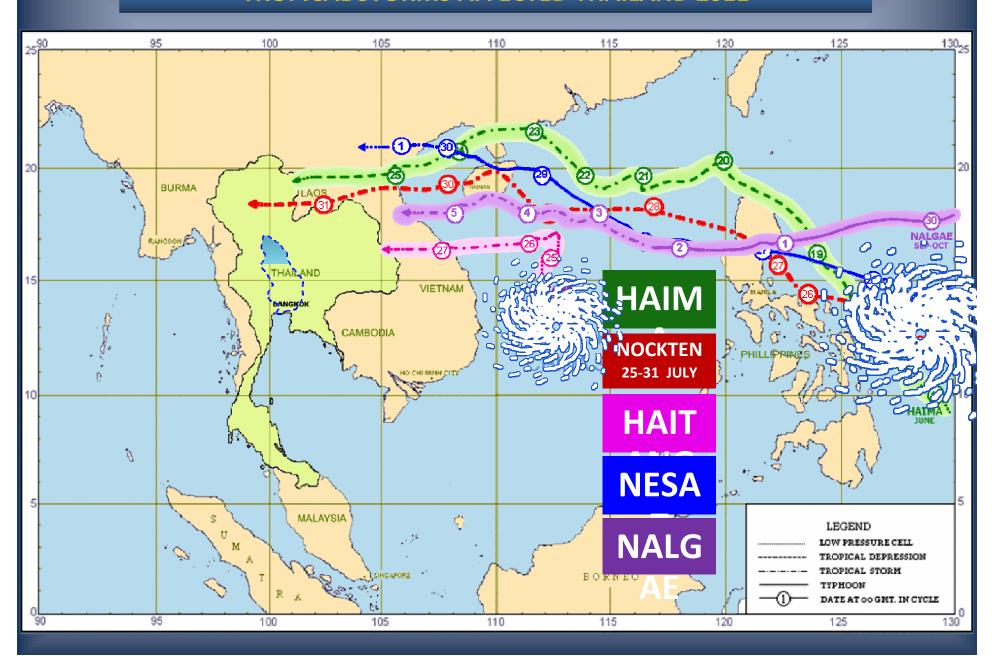
Activity 1: Finding the appropriate type of observation stations, data survey- collection and report methods with geoinformatic and disaster management system preparing for communities.

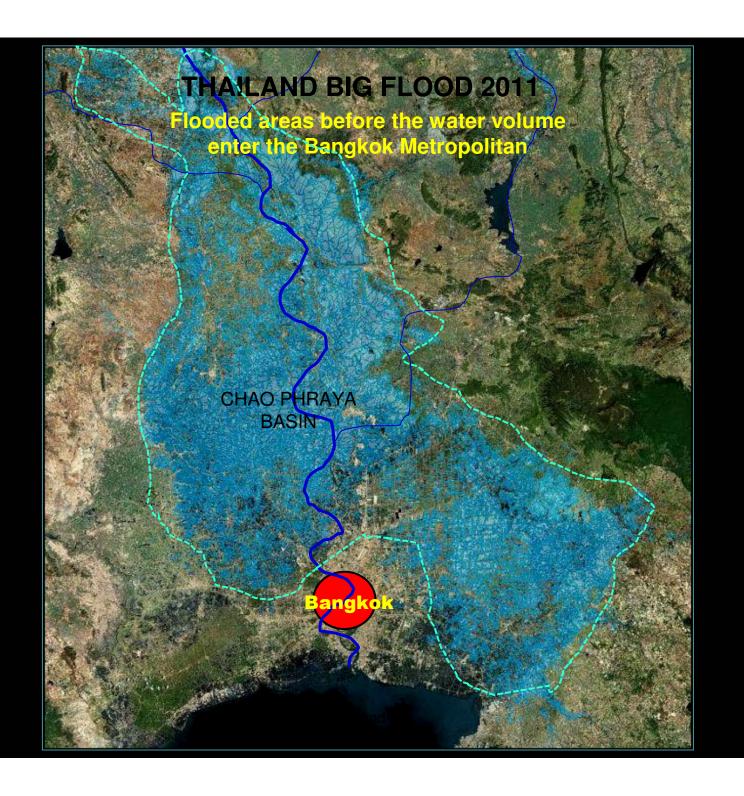
Activity 2: Rainfall analysis and runoff yield assess by satellite images model.

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







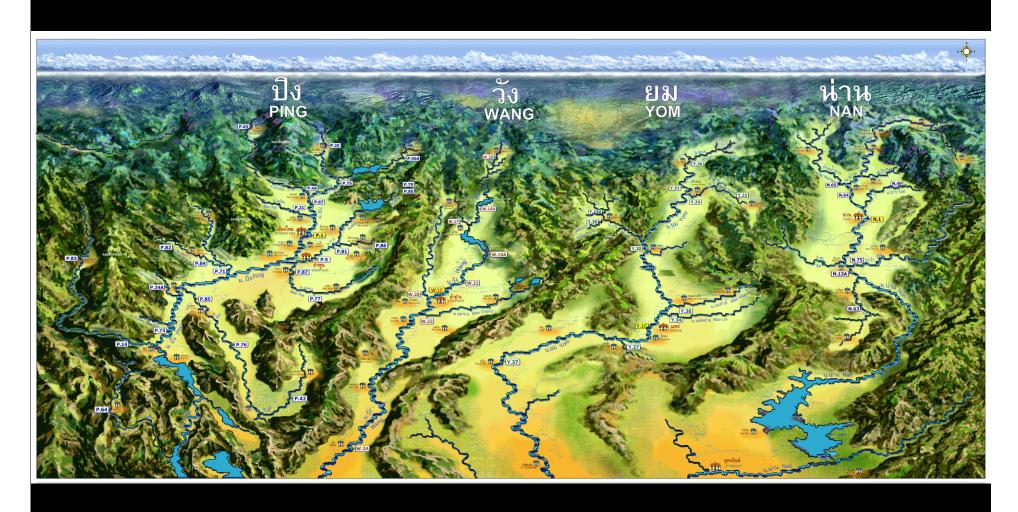
CHAO PHRAYA BASIN

Source Rivers:

Ping, Wang, Yom and Nan in Northern

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Source Rivers : Ping, Wang, Yom and Nan in the Northern Thailand

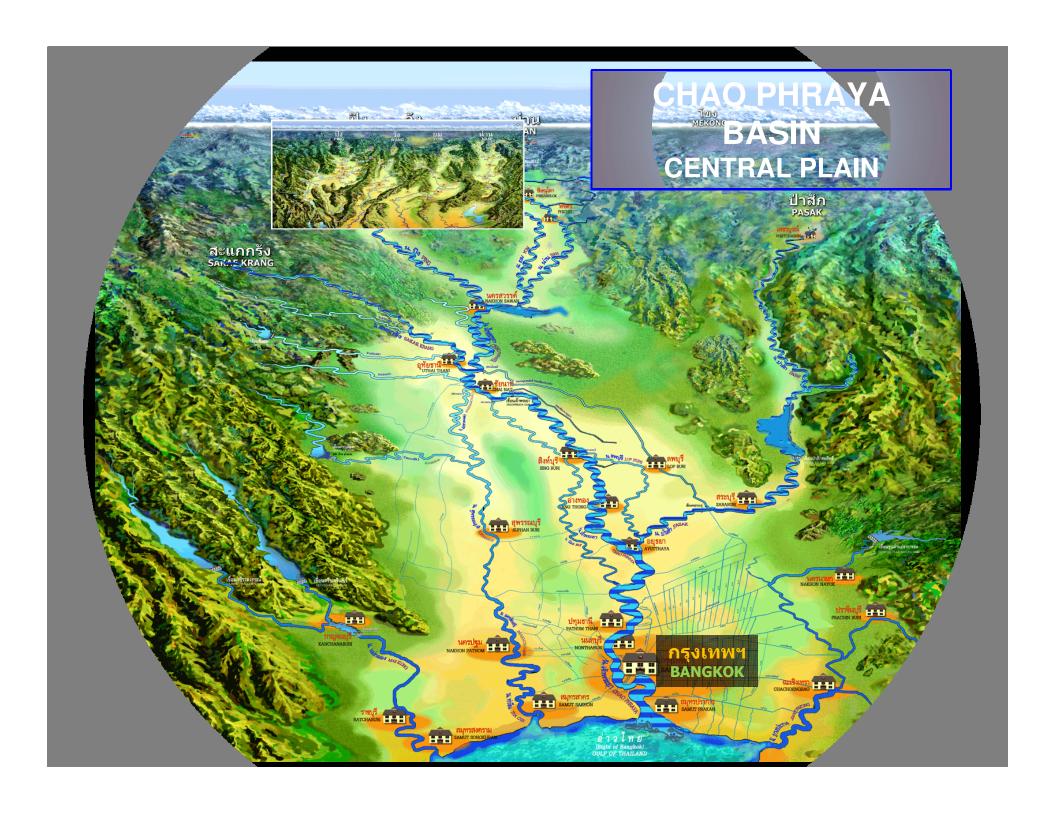




CHAO PHRAYA BASIN

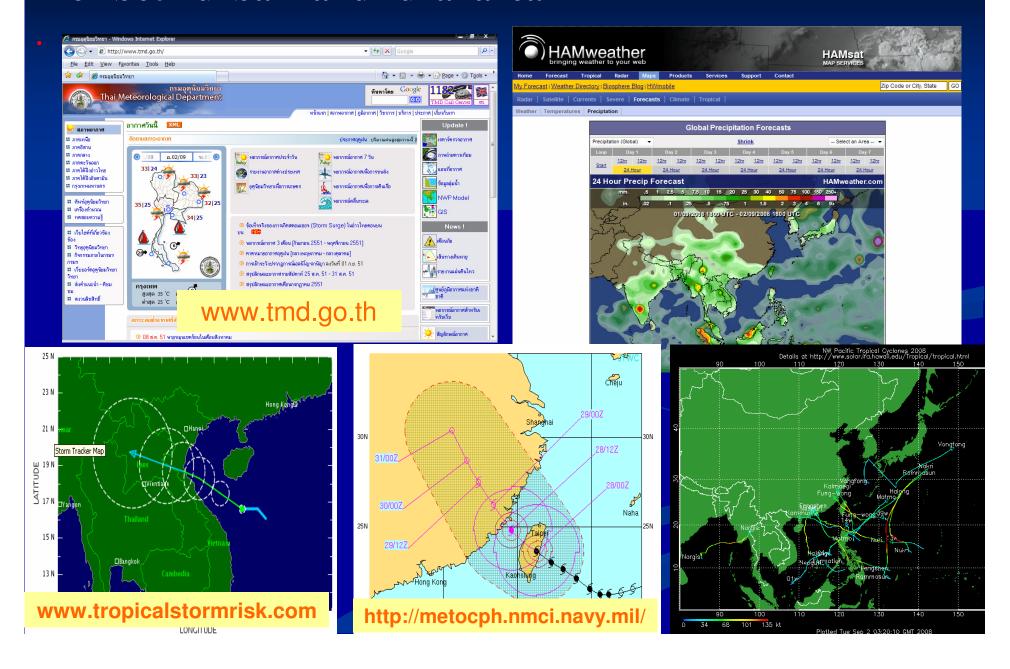
DOWNSTREAM BASIN:

Chao Phraya, Sakae Krang and Pa Sak rivers in 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

