Country Report:GEOSS/AWCI MAE WANG BASIN



THADA SUKHAPUNNAPHAN THAILAND

Beppu, Japan, 3 December 2007

Country Report:GEOSS/AWCI

MAE WANG BASIN



THADA SUKHAPUNNAPHAN THAILAND

Beppu, Japan, 3 December 2007

FLOODS in MAE WANG BASIN



Index

- **1.** Basic Information of the basin
- 2. River Monitoring and Flood Warning
- 3. Warning and Information dissemination channels

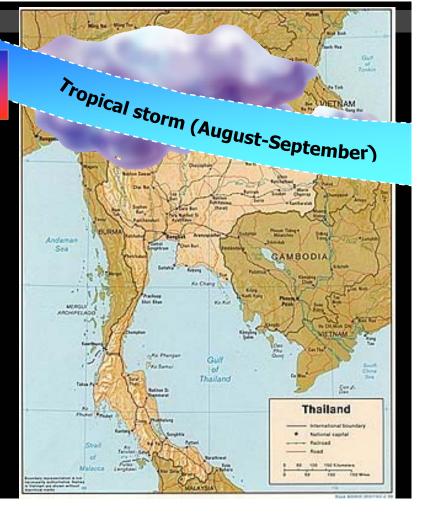


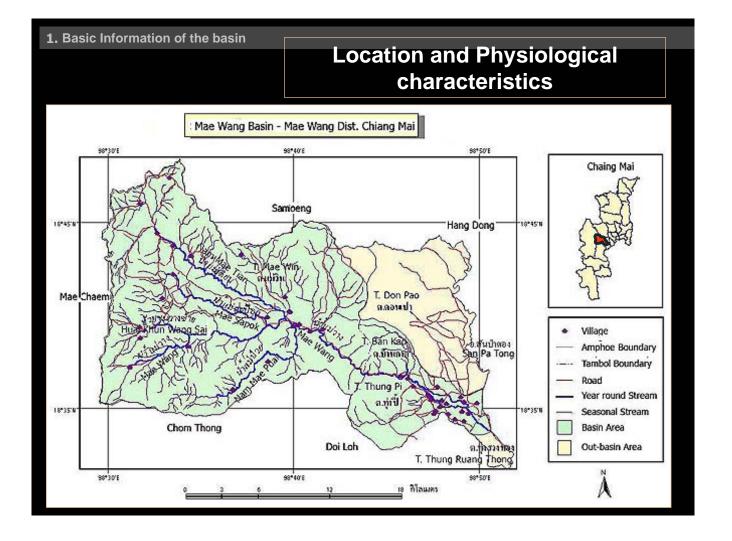
1. Basic Informatic

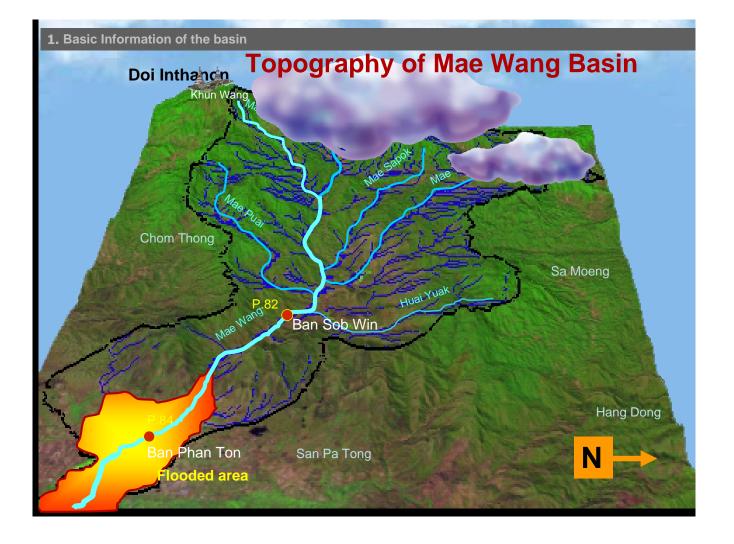
Factors of flood in Northern Thailand.

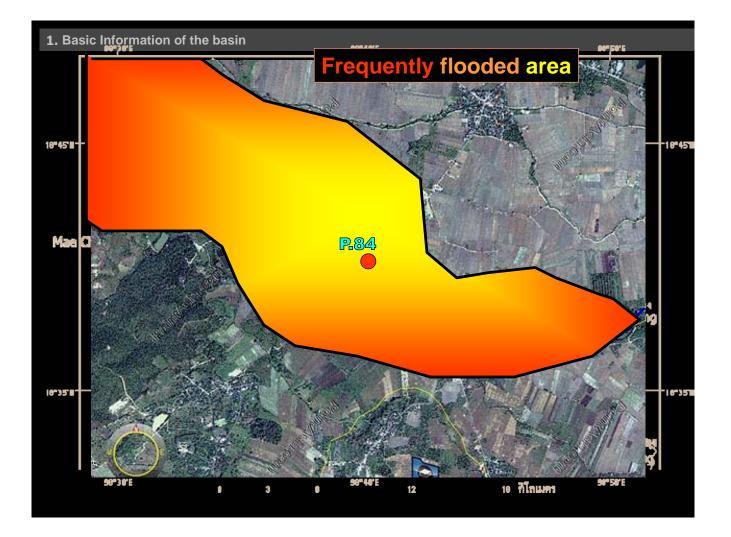
Flash flood and overbank flow inundation trend to occur mostly in the wet season from May to October of each year.

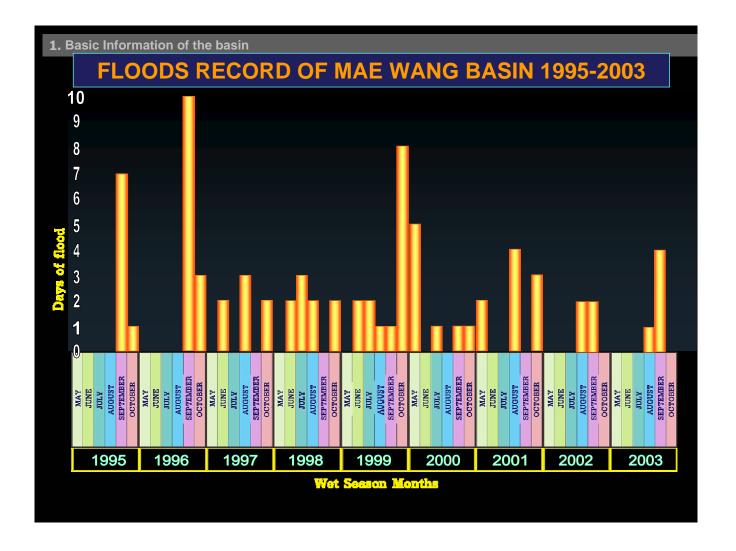
When there is continuous heavy rain influenced by southwest monsoon from Indian Ocean, tropical storm from South China Sea, low pressure trough or frontal encounter of different pressure air masses.



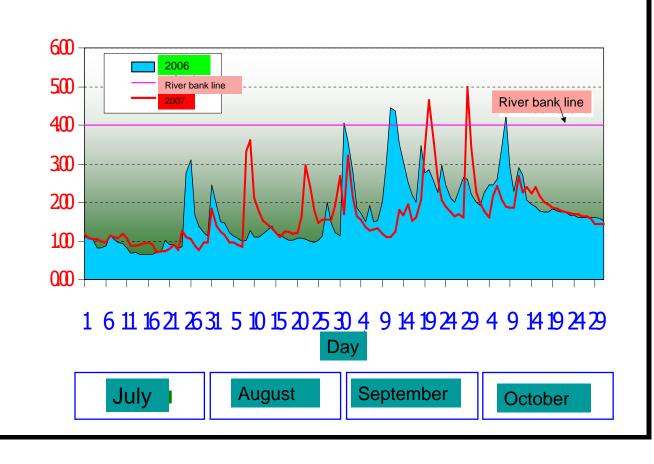








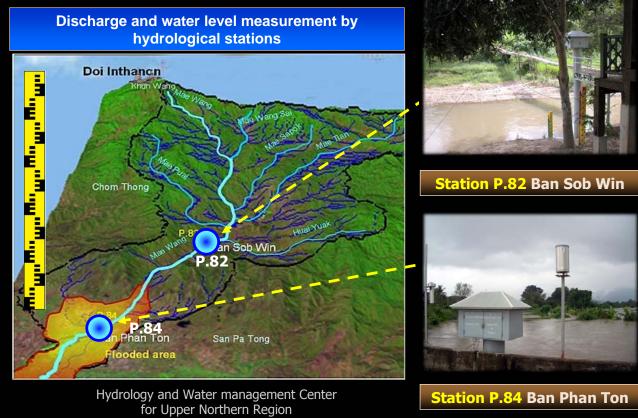
Maximum of daily water level at Mae Wang



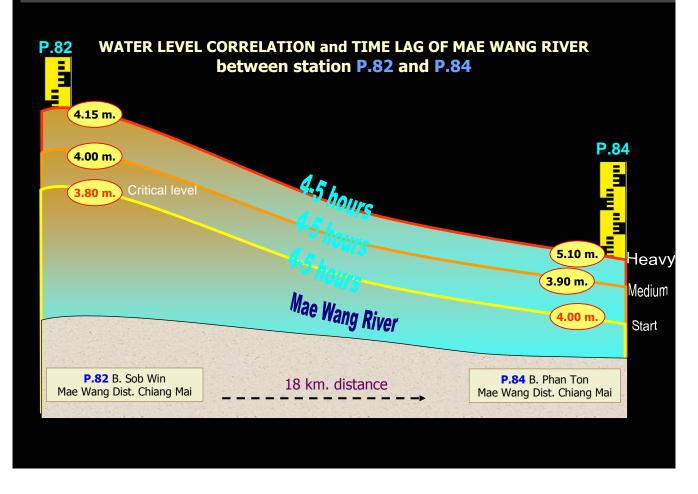
2. River monitoring and Flood Warning system

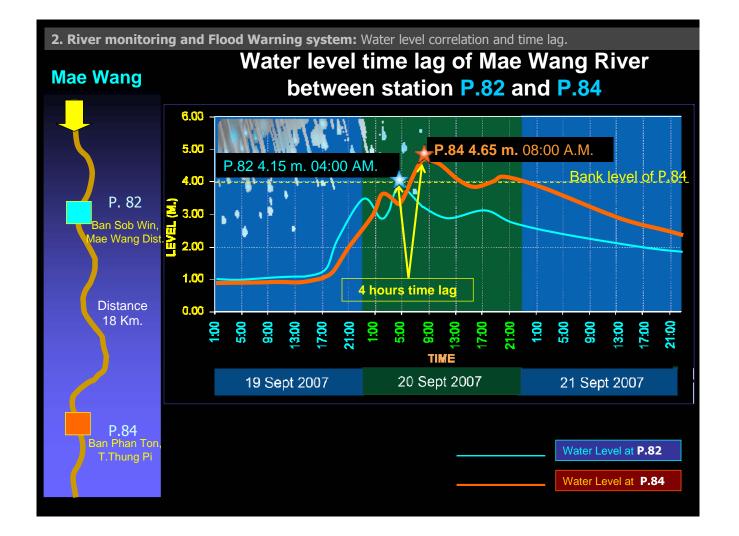
2. River monitoring and Flood Warning system: Water level correlation and time lag.

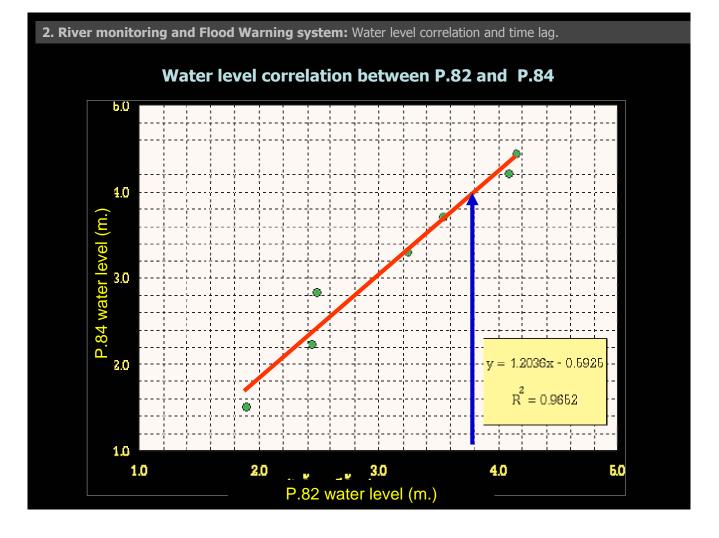
Manual measurement



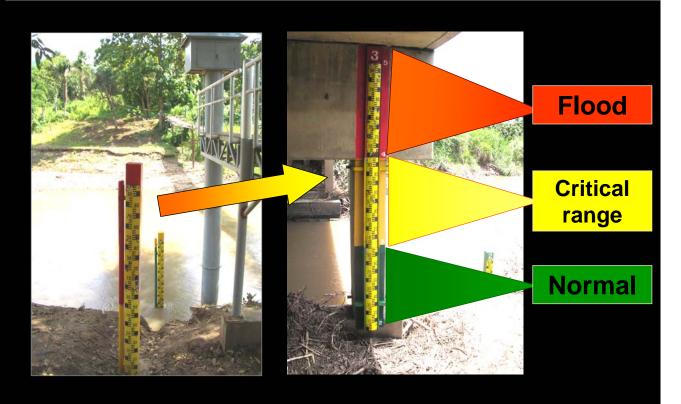
Station P.84 Ban Phan Ton



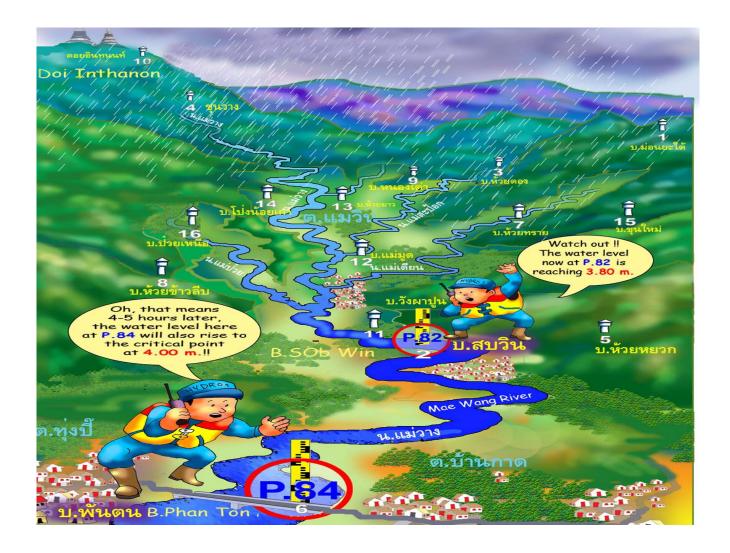


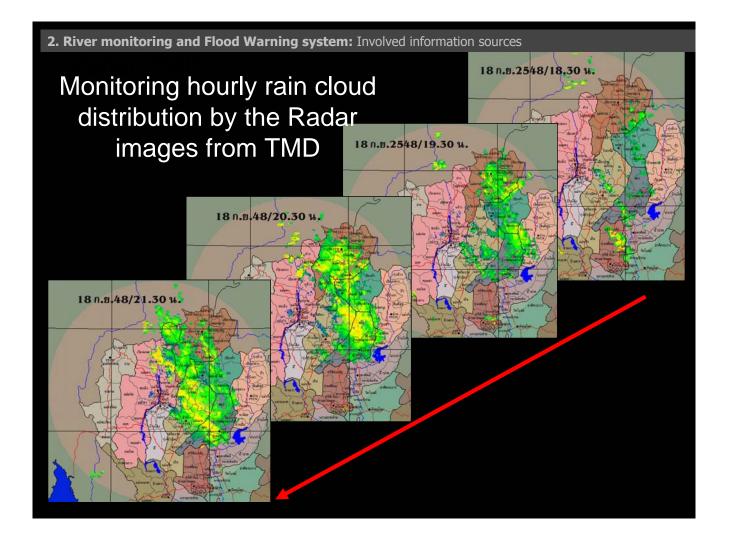


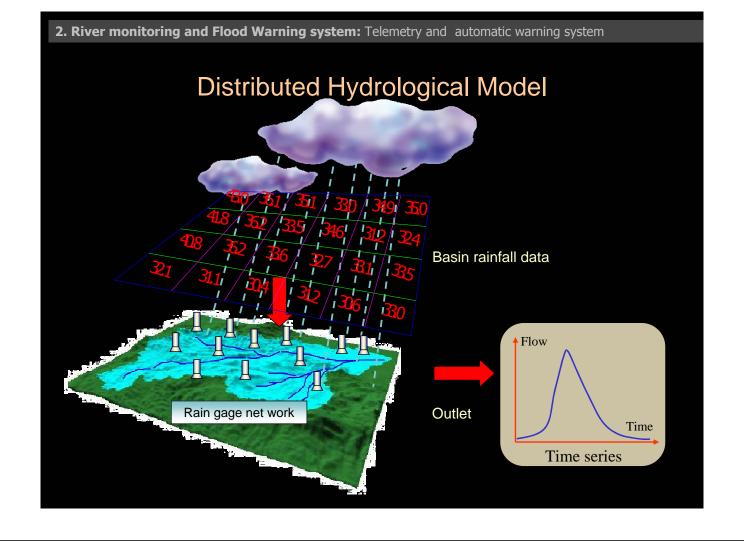
2. River monitoring and Flood Warning system: Water level correlation and time lag.

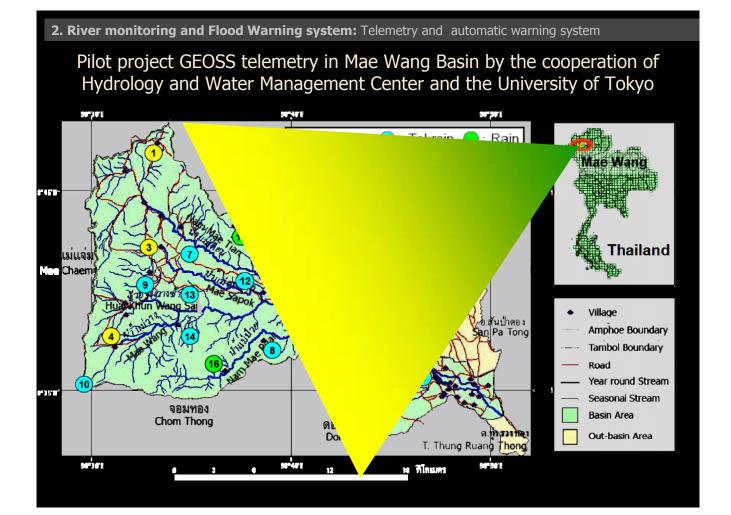


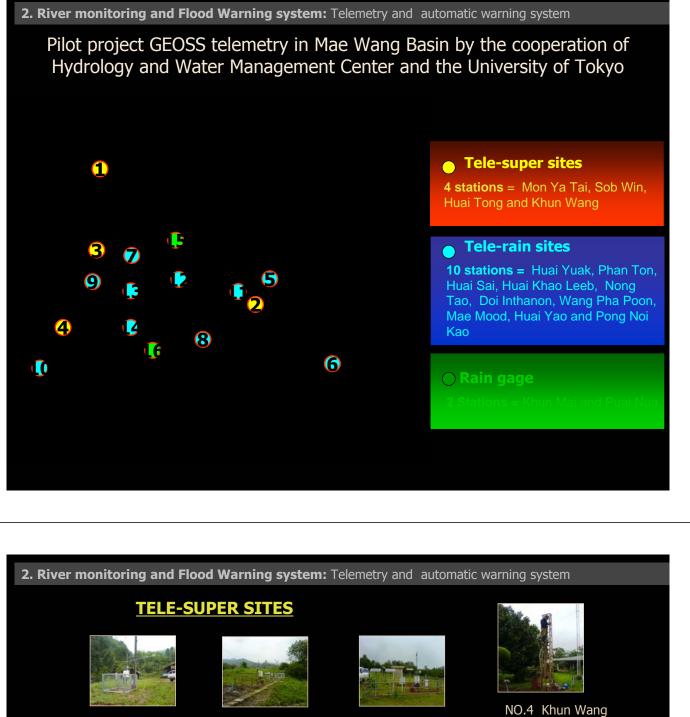
River status indicated by colors on the staff gage









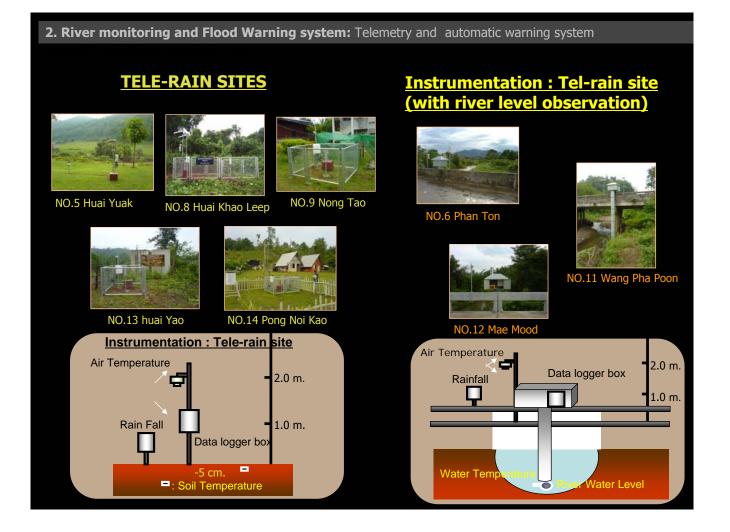


NO.1 Mon Ya Tai NO.2 Sob Win NO.3 Huai Tong Instrumentation : Tel-super site Wind Speed & Direction R 2.7ม. Air Temperature & Humidity 2.0 ม. Q Short & long-wave radiation Rain Fall Air pressure 1.0 ม. in Data logger box -10 cm. • = River Water Level -20 cm. • 🗖 -40 cm. ° 🗖 = : Soil Tempera 0 ound Water Level 🔗 : Soil Moisture

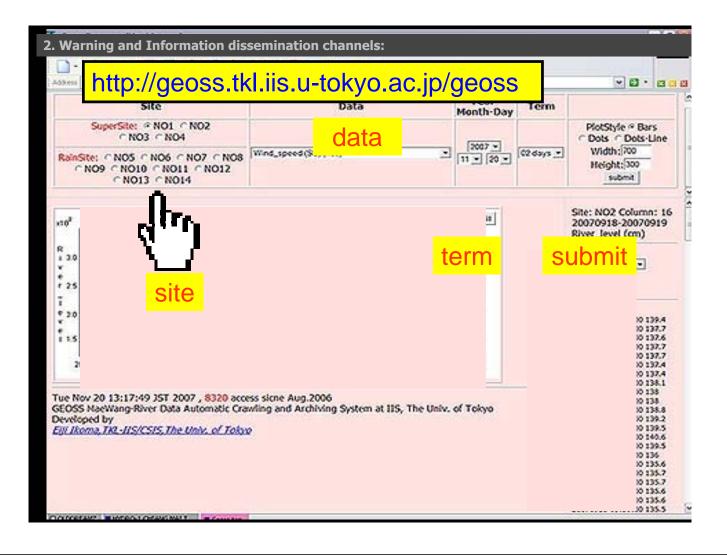
Data logger



Data transfer every 1 hour from all observation sites



2. River monitoring and Flood Warning system: Telemetry and automatic warning system								
		Telen	netric pr	oject Gl	EOSS :			
Types of survey and data collecting of 16 sites								
SITE ID	1	2	3	4	5	6	7	8
Category of Sites	Tele-super	Tele-super	Tele-super	Tele-super	Tele-rain	Tele-rain	Tele-rain	Tele-rain
Site Name	Mon Ya Tai	Sob Win	Huai Tong	Khun Wang	Huai Yuak	Phan Ton	Huai Sai	Huai Khao Leeb
(green = ridge, aqua = valley)			N 40840 0001 E 008	N 40807 4401 5 008				
Longitude / Lattitude	N 18*46,881' E 98*	N 18°39,236' E 98°	N 18*42,308' E 98*	N 18*37,410' E 98*	N 18º40,241' E 98º	N 18°35,280' E 98°	N 18*42,463' E 98*	N 18"38' E 98"38'
Altitude	1247 m. AC	414 m. AC	927 m. Solar	1,417 m. AC	474 m. AC	405 m. "AC	867 m.	903 m.
Power supply							Solar	Solar
Time schedule	XX:30:00	XX:33:30	XX:37:00	XX:40:30	XX:00	XX:03	XX:06	XX:09
Rain	•	•	•	•	•	•	•	0
Air temp	•	•	•	•	•	•	•	0
Water level		•				•	•	
Water temp						•	•	
Soil temp	•	•	•	•				
(●:4 depth, ■:1 depth)								
soil water content (4 depth)	•	•	•	•				
ground water level	0	•	•	•				
humidity	•	•	•	•				
radiation (4 components)	•	•	•	•				
wind speed / direction	•	•	•	•				
air pressure	•	•	•	•				
SITE ID	9	10	11	12	13	14	15	16
Category of Sites	Tele-rain	Tele-rain	Tele-rain	Tele-rain	Tele-rain	Tele-rain	Rain	Rain
Site Name (green = ridge, aqua = valley)	Nong tao	Doi Intanon	Mai Wang Pha Poon	Mae Mood	Huai Yao	Pong Noi Kao	Khun Mai	Puai Nua
Longitude / Lattitude	N 18°40,834'E 98°	N º E º	N 18"39,333' E 98"	N 18*40,219' E 98*	N 18°40,213'E98°	N 18°38,619' E 98°	N º E º	N°E°
Altitude	1,062 m.	<u>n</u> .	404 m.	- 10.	960 m.	910 m.	- 00.	- m.
Power supply	AC	AC	Solar	AC	AC	AC	nouse	nouse
Time schedule	XX:12	(XX:15)	XX:18	XX:21	XX:24	XX:27	nouse	no use
Rain	AA.12	(,,,,,,,)	70010	7.21	AA.24	7,7,21	O	O
Air temp		0						
VVater level	-	0	•		-	•		
			-					
Water temp Soil temp				•				
(●: 4 depth, ■: 1 depth)	-				-	•		
soil water content (4 depth)								
ground water level								
humidity								
radiation (4 components)								
wind speed / direction								
air pressure								
							1	



3. Warning and Information dissemination channels



2. Warning and Information dissemination channels: Instrumentation : Data acquisition and Telemetry system



GEOSS Data Server@RID Center 1



GEOSS Data Archive System@Univerisuty of Tokyo



Conclusion

To improve Maewang Project We need...

Training of flood modelling

Flood hazard map training

