

GEOSS And MAHASRI Experiment in Tropics (GaME-T)



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Building Up GaME-T

Drop Target Area and Coverage

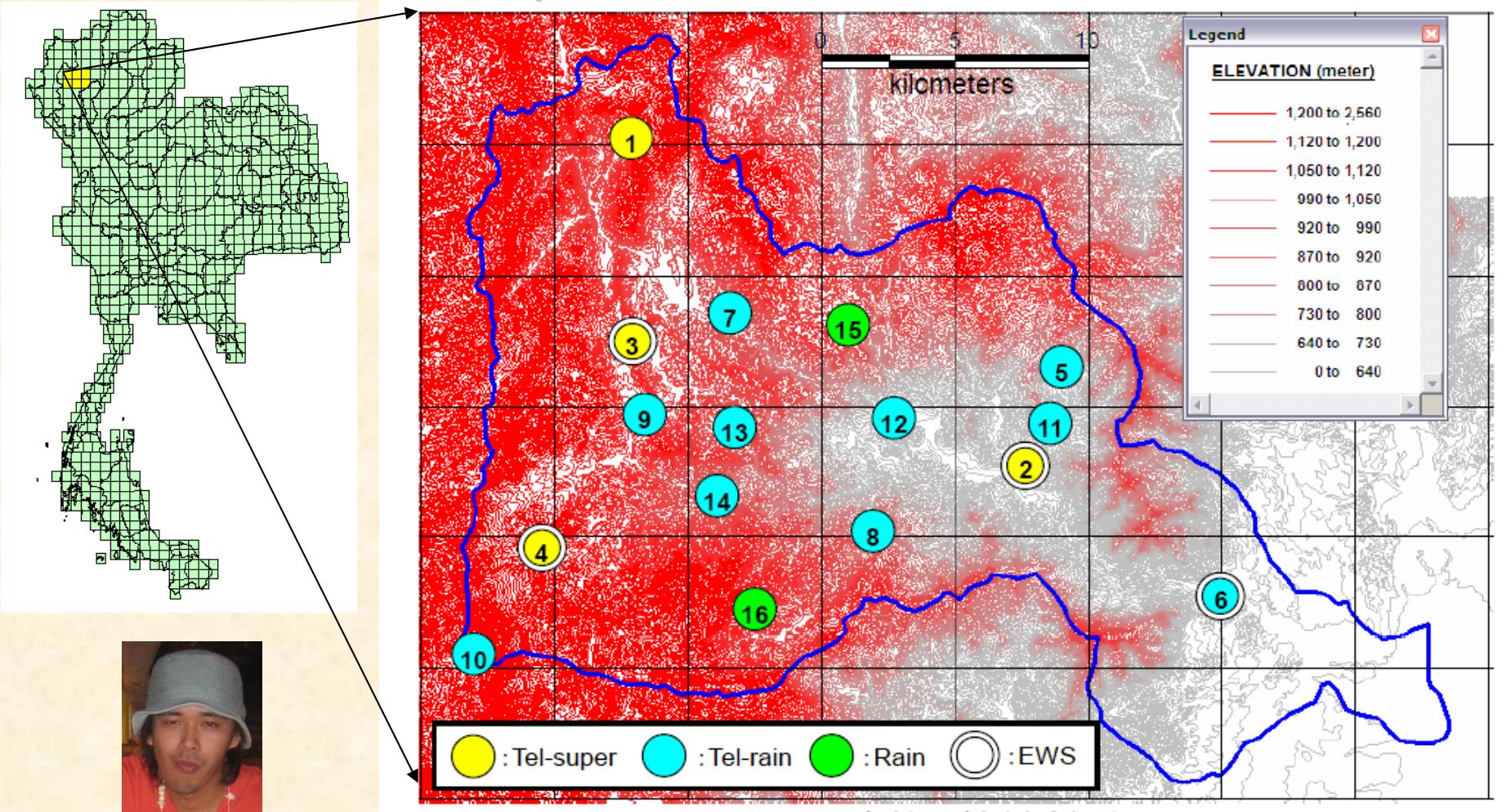
- ✓ Demonstration project of “*hydro-meteorological forecasting*” in Mae Waang, Chiang Mai, Thailand
- ✓ Flux measurements at a few landscapes
- ✓ Meteorological monitoring (+ data collection) and modeling all over the Indo-China Peninsula
 - Possible collaborations with Vietnam, Malaysia, Laos, Cambodia, Myanmar, ... + Thailand

Drop Call for specialists

- ✓ Winter monsoon, Aerosol (Phimai site is there), Seasonal Forecast, IWRM, risk communication, ...

Site description

Mae Wang basin in Chiang Mai (basin area : 600 km²)



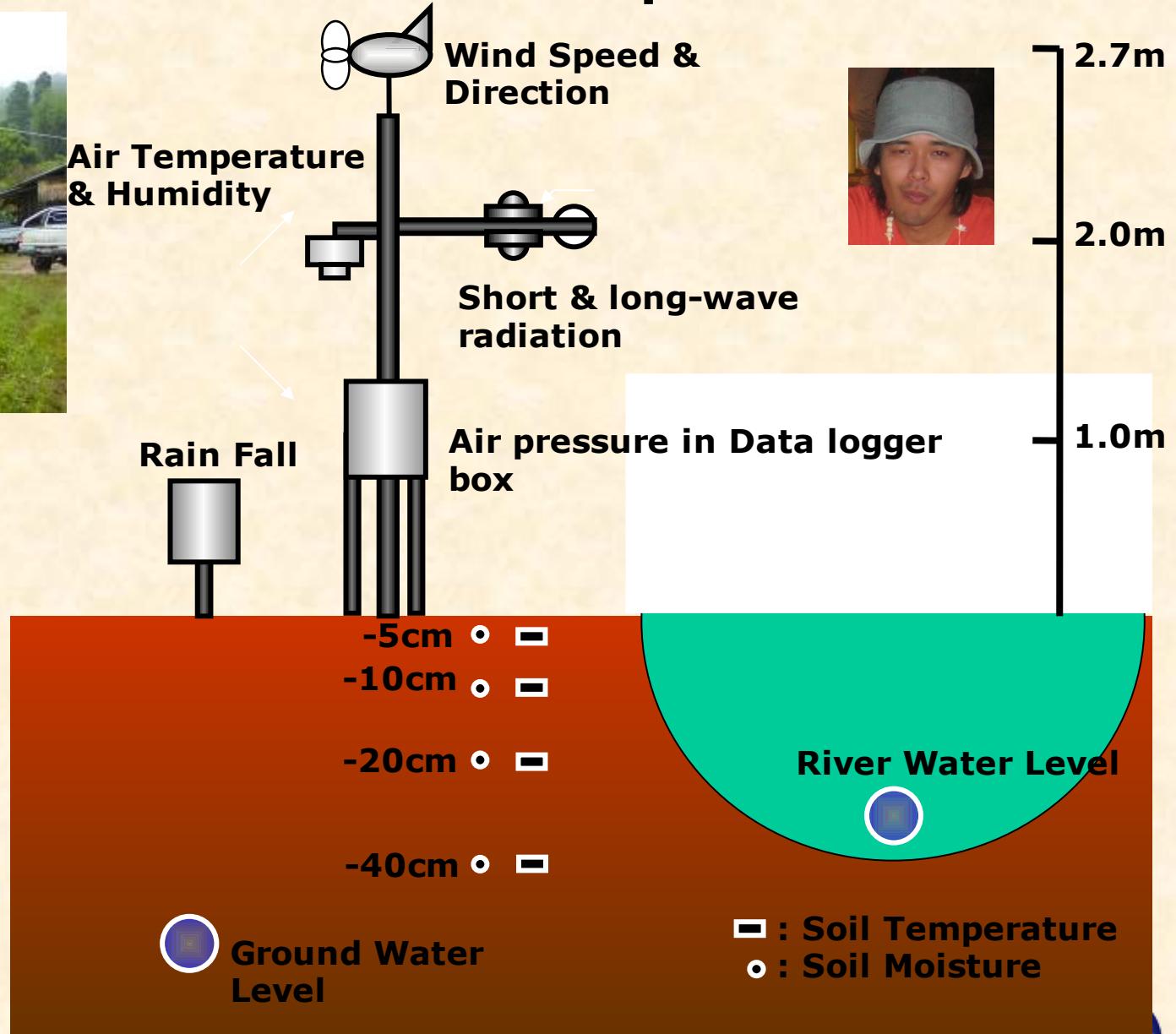
Instrumentation : Tel-super site



NO.1



Making well at NO.4



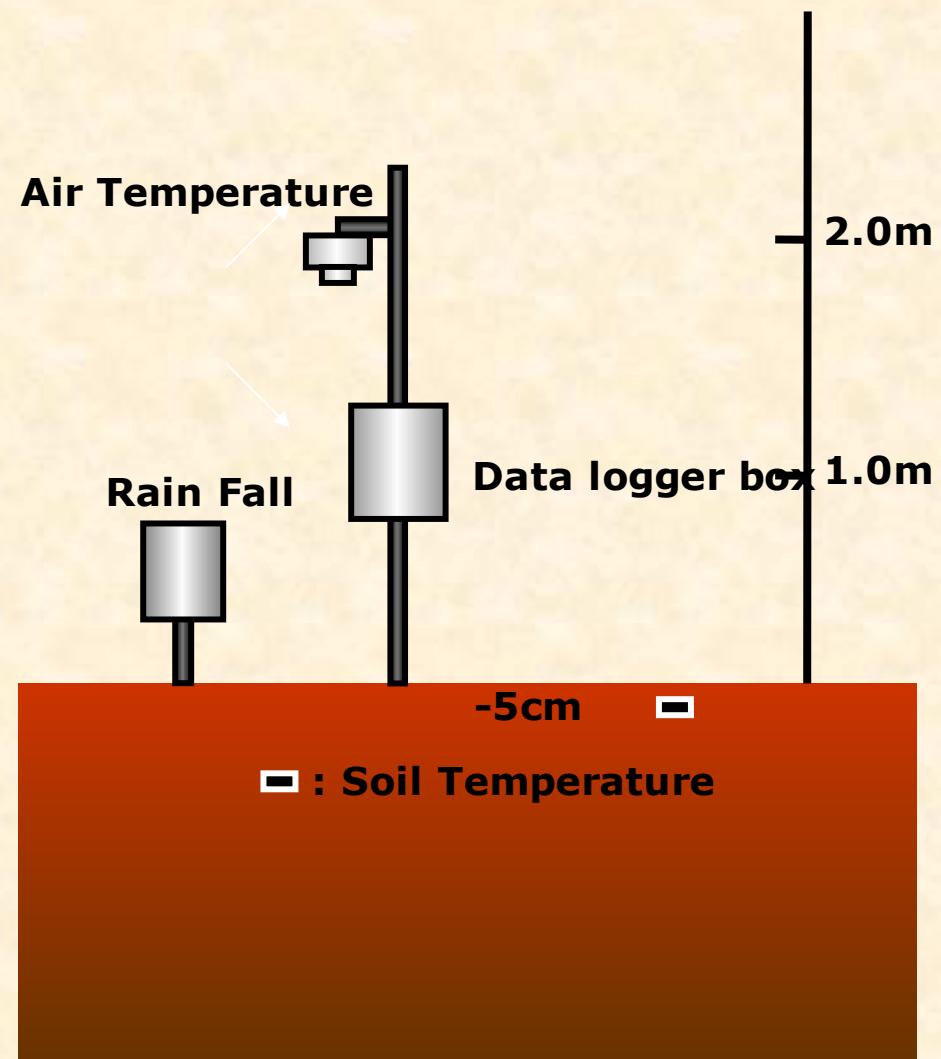
Instrumentation : Tel-rain site



NO.8



NO.13



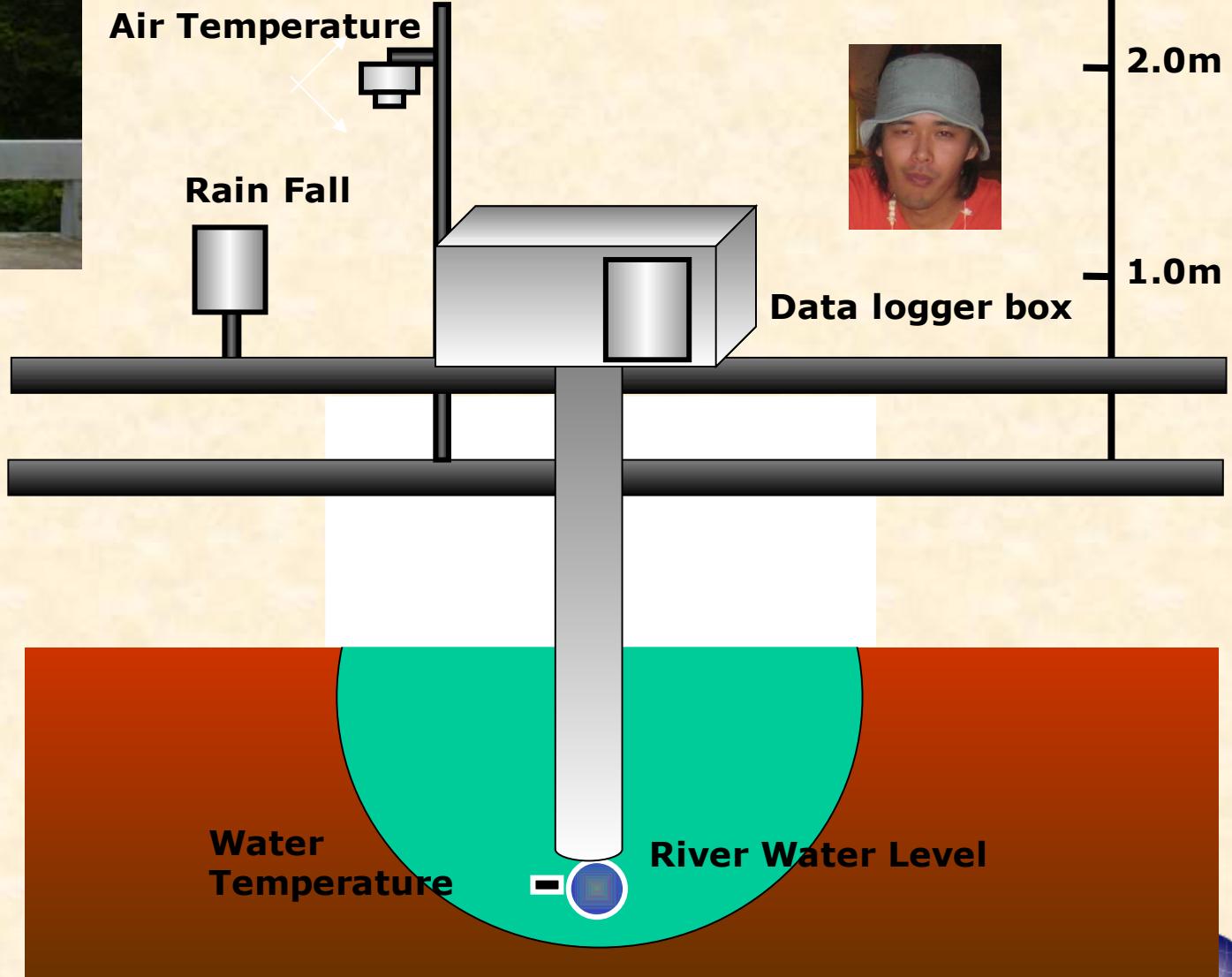
Instrumentation : Tel-rain site (with river level observation)



NO.12



NO.11



Instrumentation : Data acquisition and Telemetry system



Data logger

- ◆ Data is logging every **5 seconds** and recorded by averaging every **10 minutes**.
- ◆ Tel-super system can storage data for **6 month**, Tel-rain system can storage data for **1.5 month**.

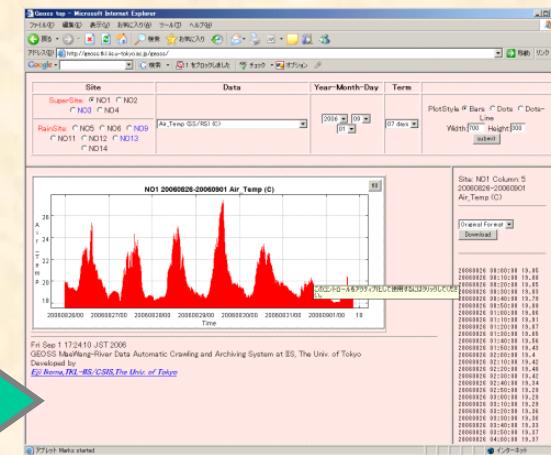
GSM modem

- ◆ GSM is **easily** able to connect line **directly** by **dial-up connection**, although GSM (9.6 kbps) is low-speed access than GPRS (115 kbps).

Data transfer every 1 hour
from all observation sites



GEOSS Data Server at RID Center 1



GEOSS Data Archive System at the University of Tokyo

Disaster Potential,
Information for
Decision making, ...

River discharge,
soil moisture,
ground water
recharge,

Soil properties,
vegetation index,
human factors, ...

precipitation,
temperature,
radiation, wind,
humidity, ...

PUBLIC

Web Interface/Effective Warning etc.

Physical Parameters to
Information for People

Multi-
Model

Surface
Parameters

Coupled
Land surface Model
& Hydrological Model

Multi- Forcing

Historical
Record

Telemetering,
Remote Sensing

Atmospheric
Numerical Model

Hindcast

Nowcast

Forecast

Real time “PUB” - the Future!

ขอบคุณ ครับ



Friends,
the
hydrologists,
can we fix it?

Yes we can!
(at least in the future)

THANK
YOU!



