

Geoscience WG update PRAGMA 23

Sornthep Vannarat
NECTEC

In PRAGMA 21

- GEO Grid lead by AIST
- 3D GIS Taiwan Platform & Applications by NARL
- Development of location based service by NARL
- GEO Infra & Application by VAST
- Ocean simulation and Environment Informatorium by NECTEC

PRAGMA 23

- Cloud based Disaster Management Information Platform
- AIST-NCHC end-to-end 600 mbps bandwidth
- Flood simulation & Satellite+sensor data based river discharge forecast
- Ocean simulation to support coral reef ecology research
- Proposal to discuss WG structure



Display of AIST GEO data at
NCHC GEO Lab in Taichung.

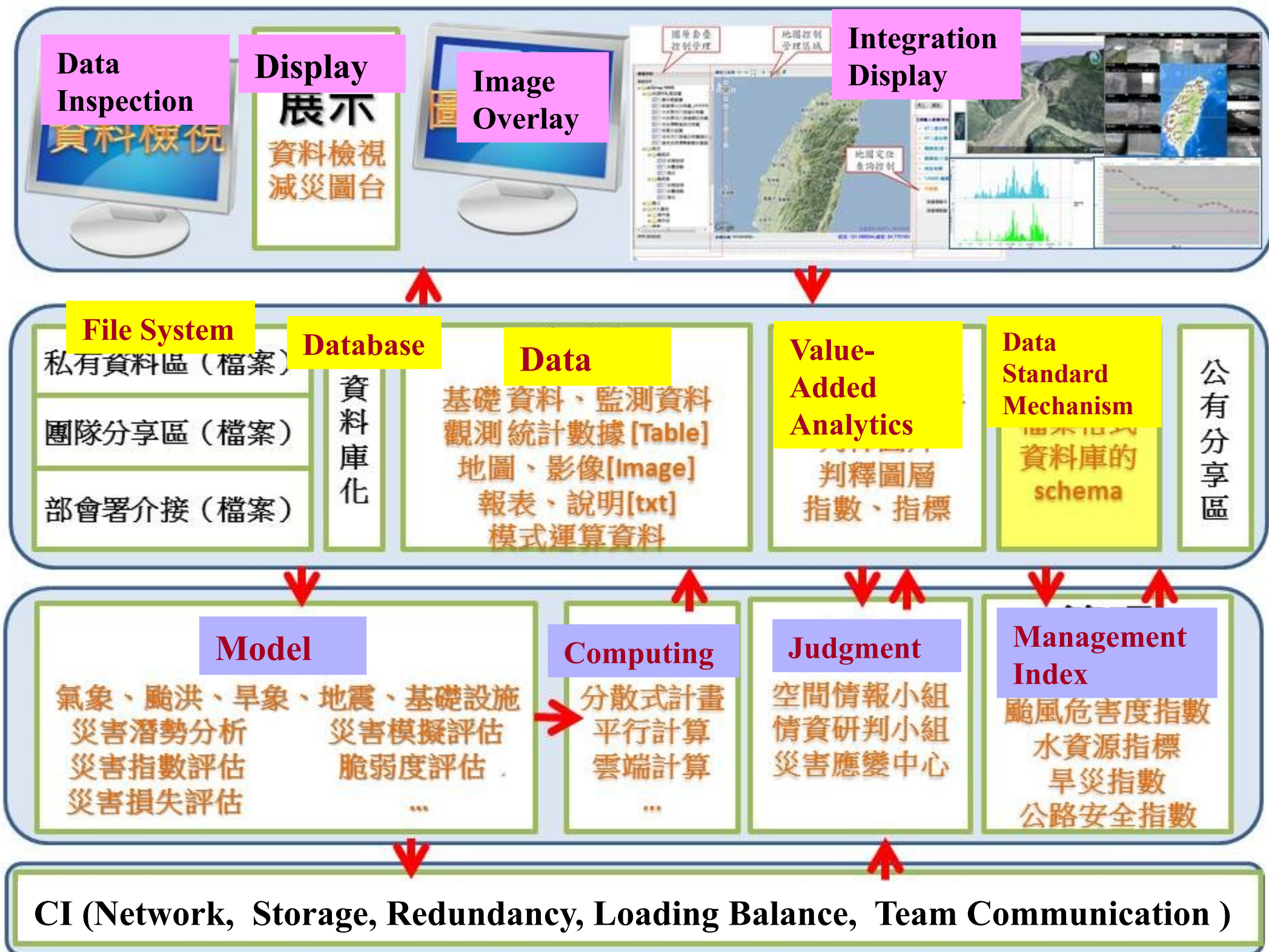
Report from GSW break-out

- 2 groups joined the break-out
 - Cloud based Disaster Management Information Platform
 - Ocean simulation
 - River discharge prediction

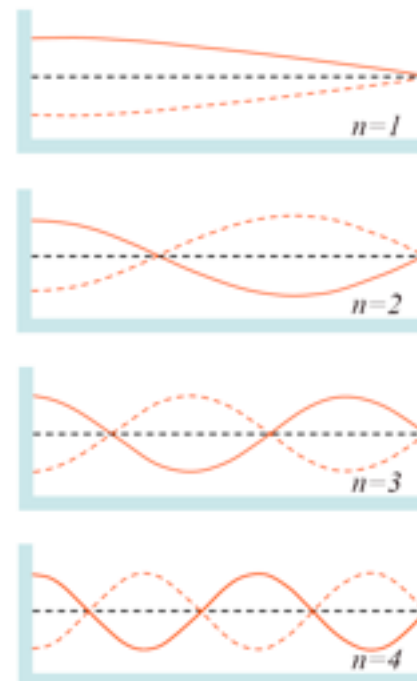
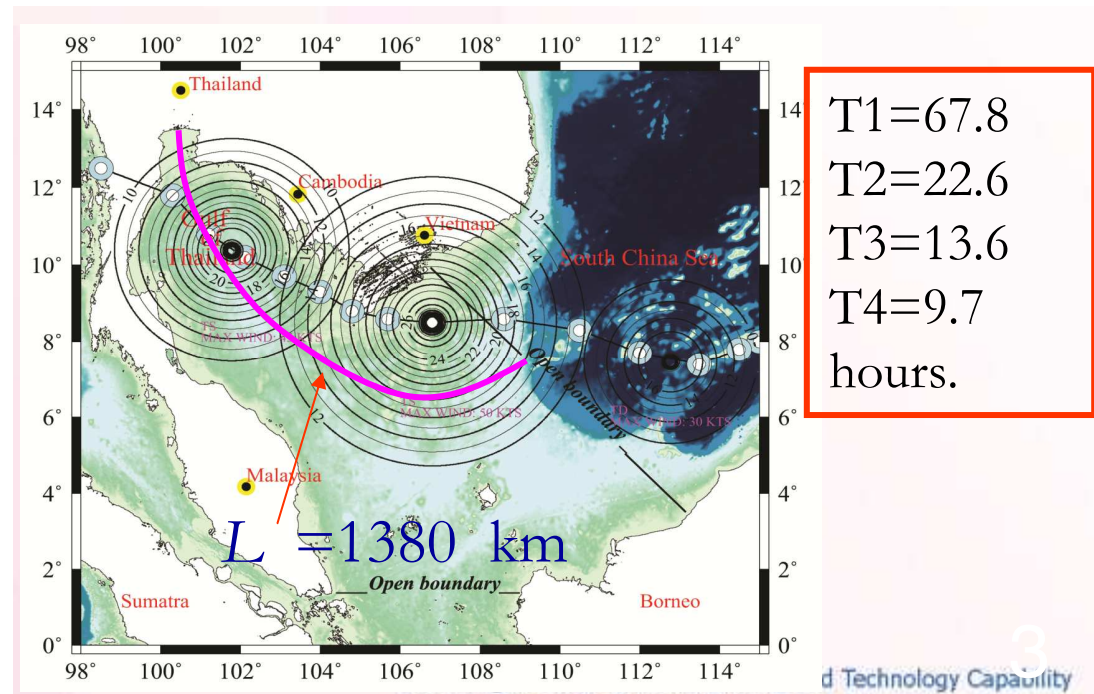
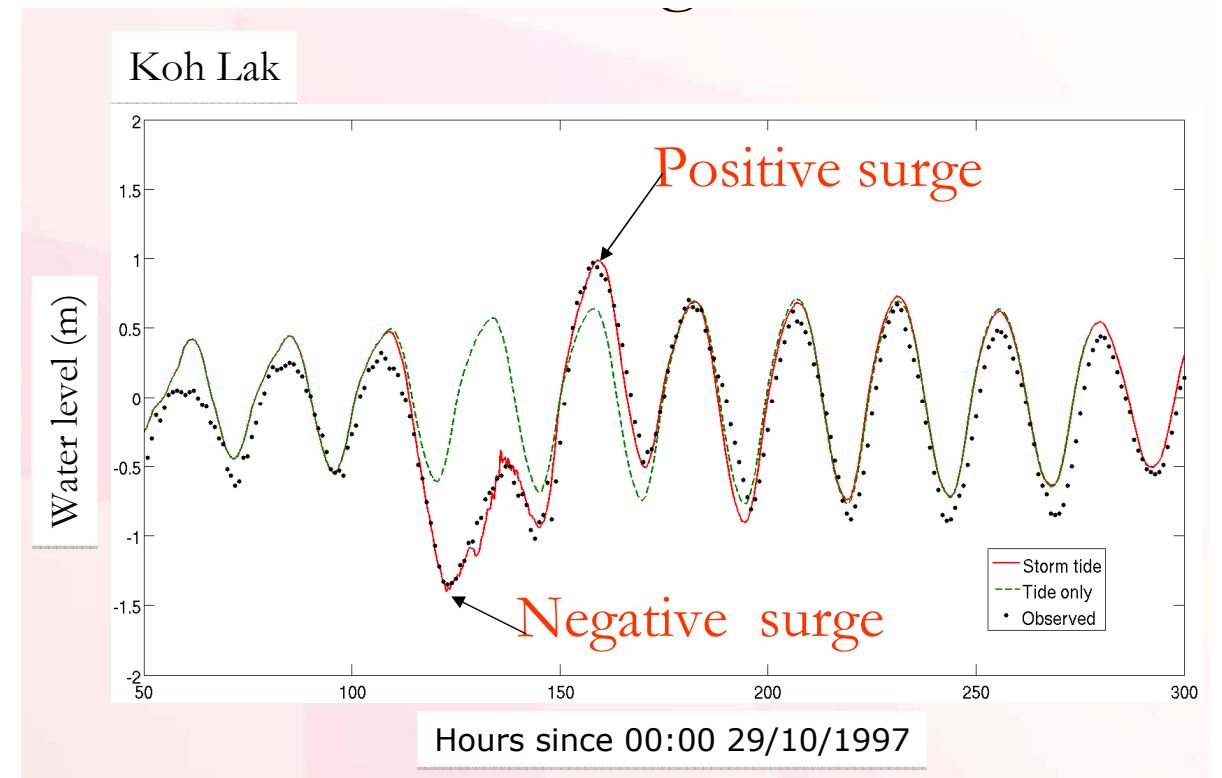
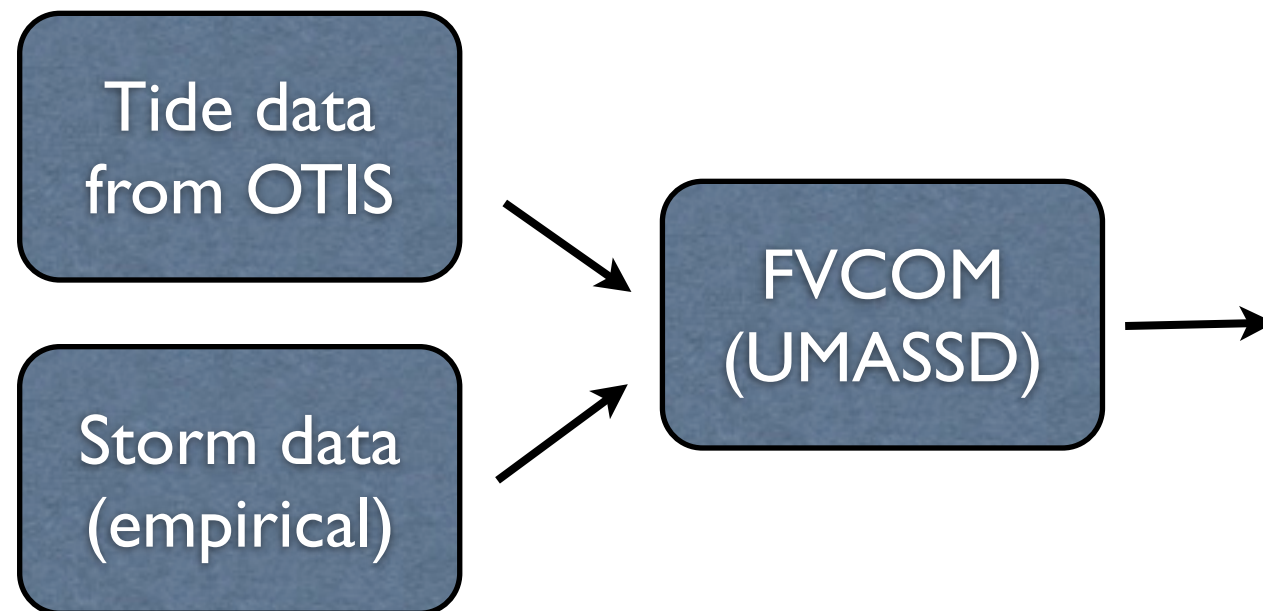
Cloud based Disaster Management Information Platform

Data & Model Users

Decision Making Users



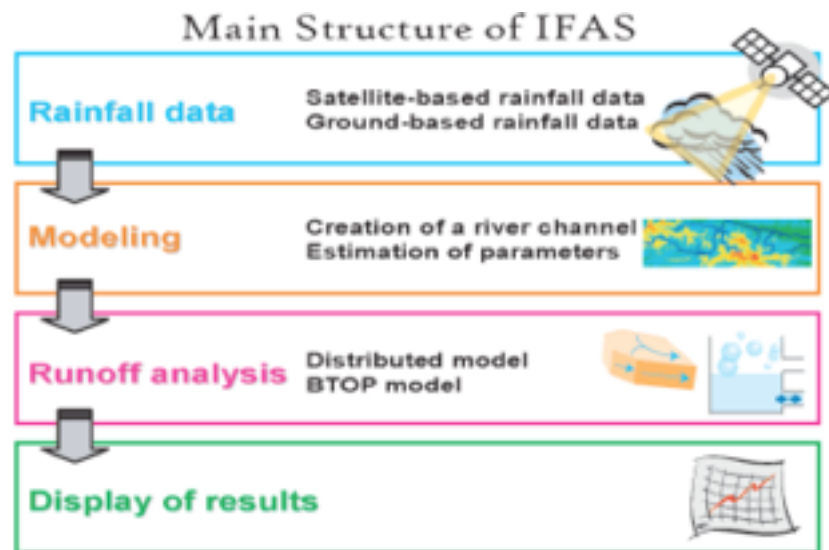
Ocean simulation



Surge period ~ 54 hours
comparable to $T1=68$ hours

- Can we use PRAGMA's resource to run our simulation?
- Simulated data & lesson learned can be shared.

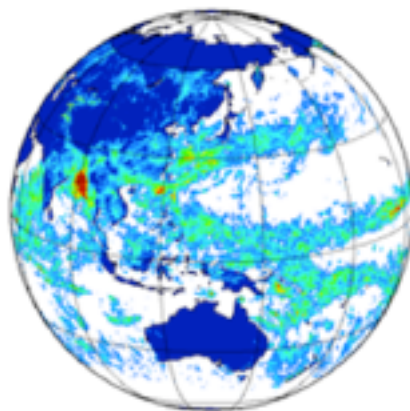
River discharge prediction



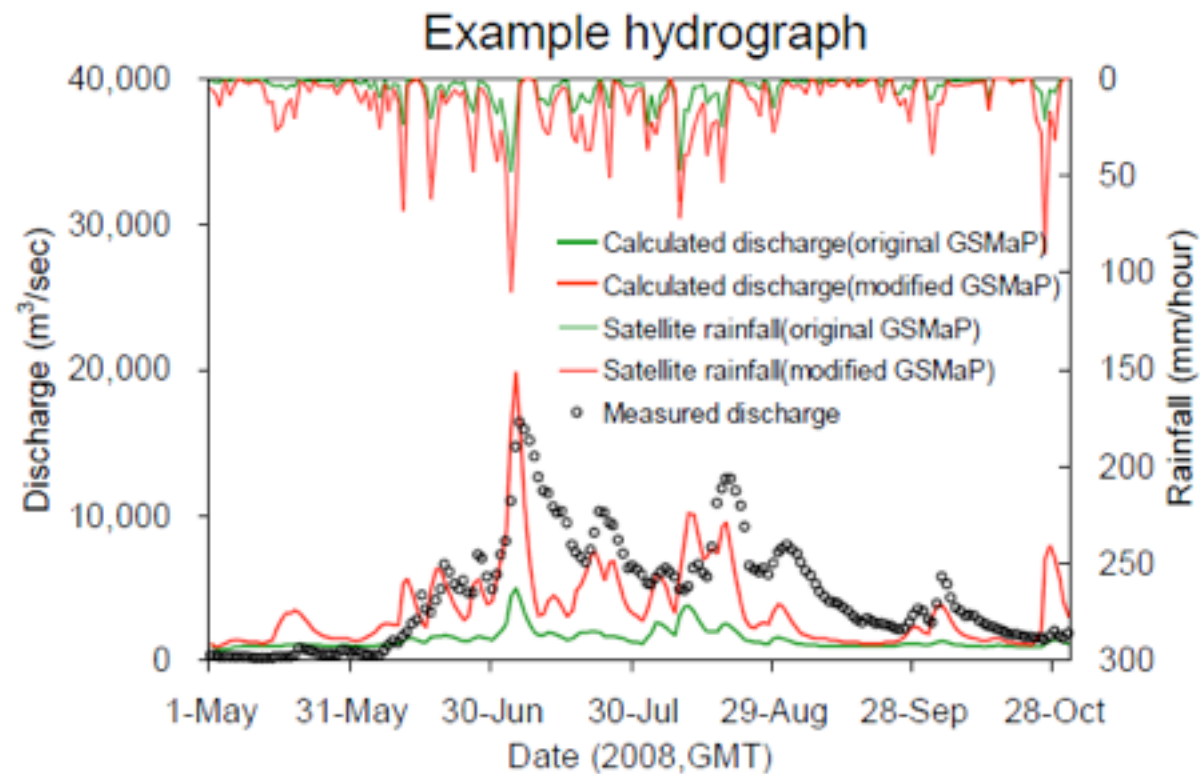
- Rain Gauge Sensor

- GSMaP

- Global rain fall
- Interval 1 hrs/delay 4 hrs.
- JAXA,JP



ユニット)



- NCHC
- OGC Web Processing Service
 - VM-based Cloud
- OGC Data Service
 - SOS : Sensor
 - WMS : Satellite data

- AIST, NICT
- OGC Web Processing Service
 - VM-based Cloud
- OGC Data Service
 - SOS : Sensor
 - WMS : Satellite data

- NECTEC, HAIL, VAST etc
- OGC Web Processing Service
 - VM Cloud
- OGC Data Service
 - SOS : Sensor

- UCSD
- OGC Web Processing Service
 - VM-based Cloud

--> Flood Prediction
using SW like HEC-RAS