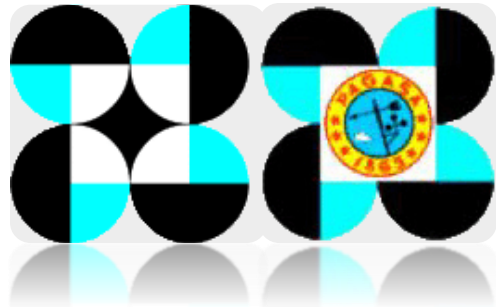


**The Fifth GEOSS Asia-Pacific Symposium:
“GEO Initiatives Towards Green Growth in the Asia-Pacific Region”
National Museum of Emerging Science and Innovation (Miraikan)
2 - 4 April 2012, Tokyo, Japan**

GEOSS Related Activities in the Philippines



**Flaviana Hilario, Ph.D.
Acting Deputy Administrator for R&D
PAGASA**

ENHANCEMENT OF WEATHER FORECASTING CAPABILITIES

Doppler Weather Radar Program

- 7 operational Doppler weather radars: Baguio, Baler, Subic, Hinatuan, Tagaytay, Mactan and Virac
- Installation of 3 Doppler weather radars at Tampakan, Aparri and Guiuan
- Procurement of 4 additional radars (Zamboanga, Busuanga, Panay and Puerto Princesa) [Panay Radar & Infra requirement for Zamboanga & Busuanga are funded out of DAP]
- Radar data validation/calibration

"tracking the sky...helping the country"



ENHANCEMENT OF WEATHER FORECASTING CAPABILITIES

➔ Doppler Weather Radar Program



TAGAYTAY



TAMPAKAN



HINATUAN



VIRAC



CEBU



SUBIC *"tracking the sky...helping the country"*

ENHANCEMENT OF WEATHER FORECASTING CAPABILITIES

➔ Rolling-out of Automated Weather Stations, Raingauges, and Water Level Sensors



- Installation of 150 AWS, more WLS and RGs (in collaboration with ASTI and DOST ROs.)
- Identified probable sites for AWS, RGs, and WLS
- Perform data validation
- Conduct IEC

ENHANCEMENT OF WEATHER FORECASTING CAPABILITIES

Warning System for Marine and Air Navigation and Transport

METEOROLOGICAL BUOYS

- Procurement and Installation of 5 locally fabricated Meteorological Buoys (in coordination with ASTI).
- Identified and surveyed probable sites
- 1 Automatic Weather Observing System (AWOS) for Cebu



AWOS

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Upper-air stations including wind profiler, provide additional data on atmospheric pressure, wind speed and direction, humidity and temperature to complement Met satellite, Doppler radars and ground stations data.

UPPER-AIR WEATHER STATIONS



WIND PROFILER

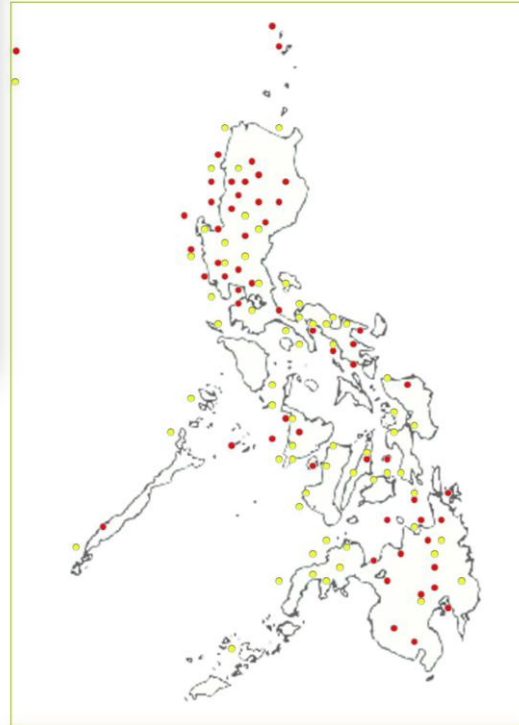


UPPER-AIR BALLON STATIONS
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Ground stations provide real time data on atmospheric pressure, wind speed and direction, rainfall amount, water levels, to complement met satellite and Doppler radar data and send this via SMS, VSAT, and radiophone to PAGASA Forecasting Center.

GROUND STATIONS

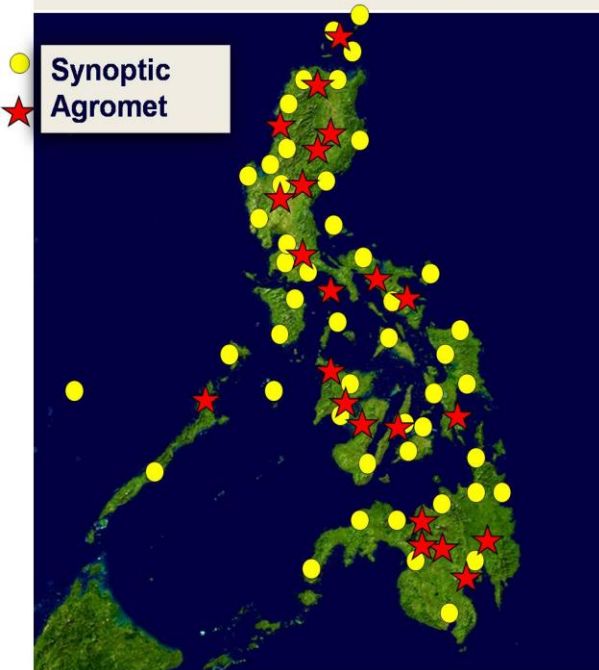
AWS



ARG & MET BUOYS



GROUND STATIONS



Ground stations consist of the following:

- * Automatic and manned weather stations
- * Automatic rain gauges
- * Water Level Sensors
- * Meteorological Buoys

STRENGTHENING FLOOD MONITORING, FORECASTING & WARNING SYSTEM

➔ Upgrading of the Cagayan River Basin telemetered Flood Forecasting & Warning System

Cagayan River Basin

- Rainfall Station
- Water level Station

0 10 20 30 40 50 km



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STRENGTHENING FLOOD MONITORING, FORECASTING & WARNING SYSTEM

➔ Upgrading of the Bicol River Basin telemetered Flood Forecasting & Warning System



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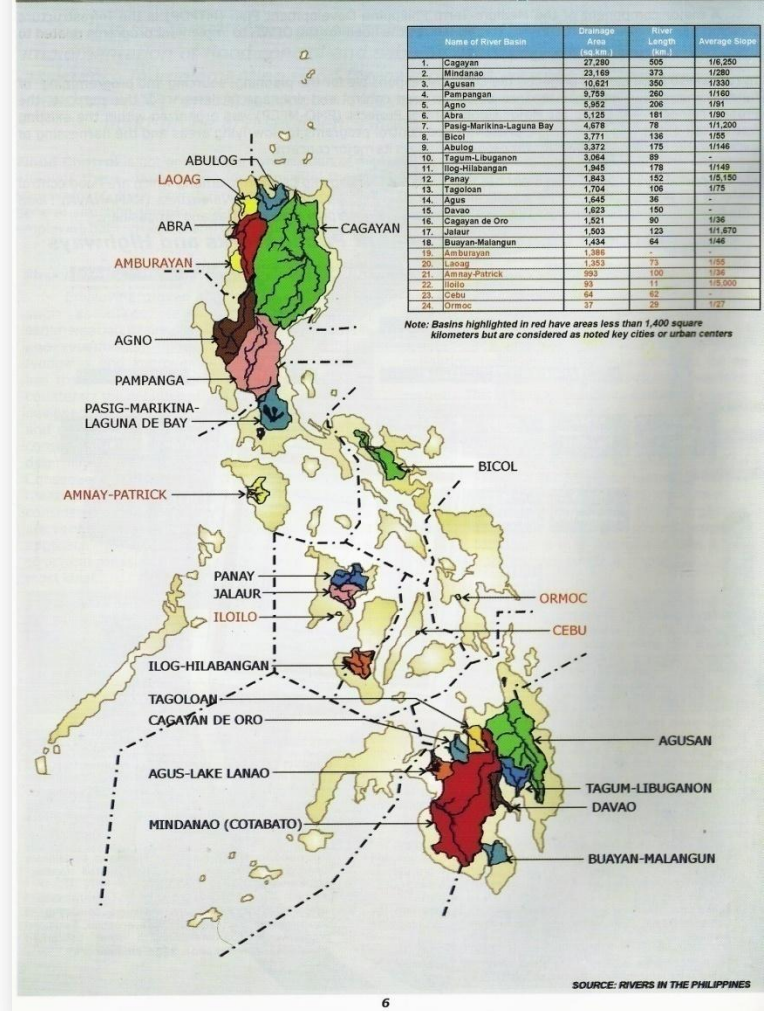
STRENGTHENING FLOOD MONITORING, FORECASTING & WARNING SYSTEM

Installation of more WLS in 13 Major River Basins (in collaboration with ASTI)

Establishment of FFWS in major river basins in the country

Survey of river systems

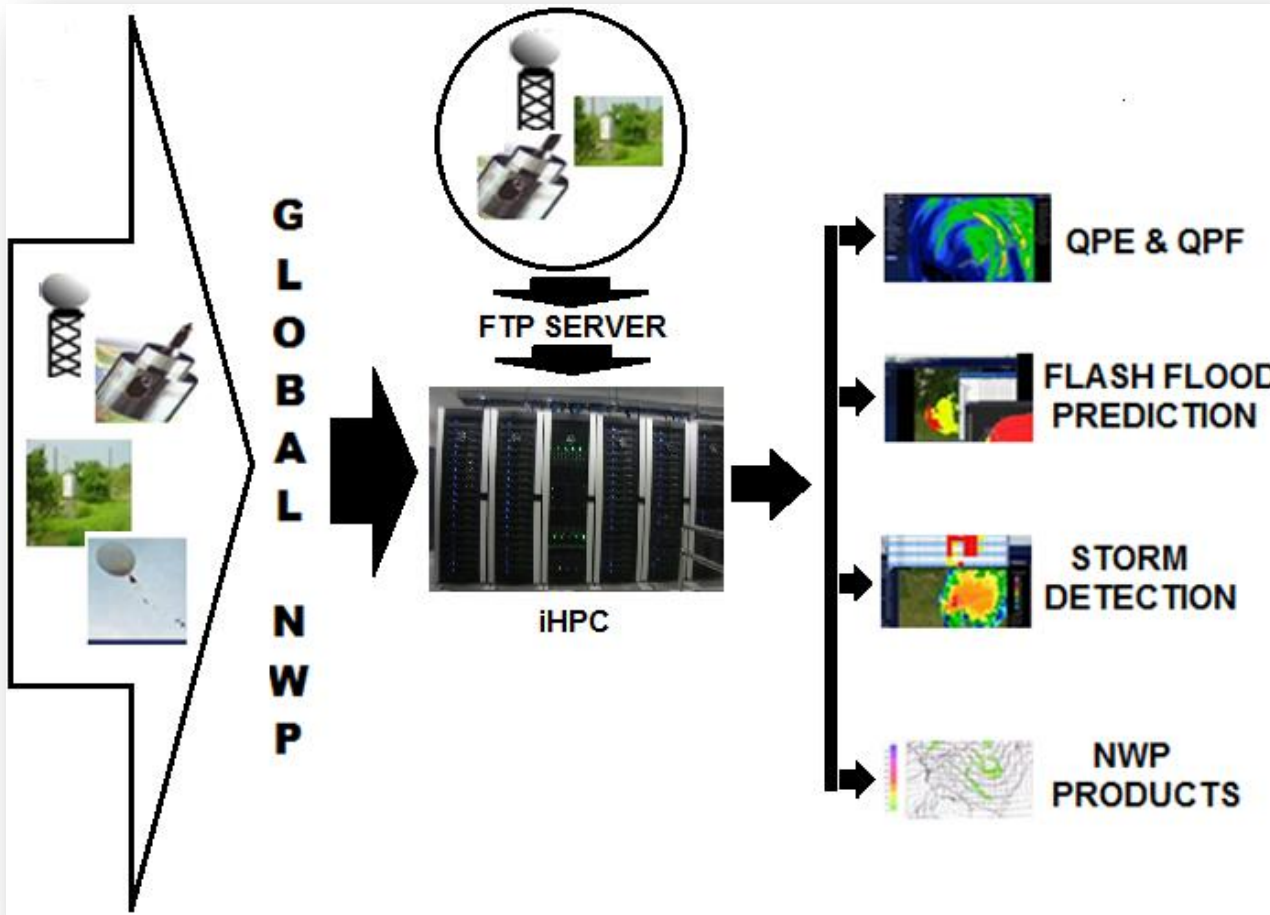
Major Rivers in the Philippines and Other Noted Basins in Key Cities



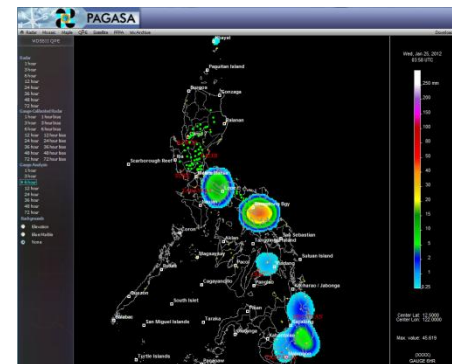
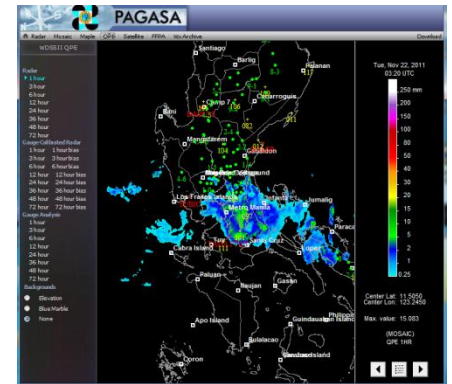
ENHANCEMENT OF WEATHER FORECASTING CAPABILITIES

Integrated High Performance Computing System (iHPCS)

iHPCS Integrates, Processes & Display data



- to have an accurate and timely hourly warnings of severe weather disturbances that develop/enter the PAR.



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THANK YOU!

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