



Republic of the Philippines  
Department of Science and Technology

*Philippine Atmospheric, Geophysical and Astronomical Services Administration*

# ***Water-Related Disaster Activities of PAGASA***

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*10<sup>th</sup> GEOSS Asia\_pacific Symposium  
Hanoi, Vietnam*

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# Presentation Outline

1. Introduction
2. Mission
3. Functions
4. Organizational Structure
5. Activities for Water Related Disasters
6. Products and Services
7. Way to go ...



# The PAGASA

*The National Hydrometeorological Service of the Philippines*

## Legal Mandate

*“To provide protection against natural calamities and utilize scientific knowledge as an effective instrument to insure the safety, well being and economic security of all the people, and for the promotion of national progress.”*

Section 2, Statement of Policy, Presidential Decree No. 78; December 1972 as amended by Presidential Decree No. 1149; August 1977



## Mission

*“Protecting lives, properties and livelihood through timely, accurate and reliable weather-related information and services.”*



# Functions

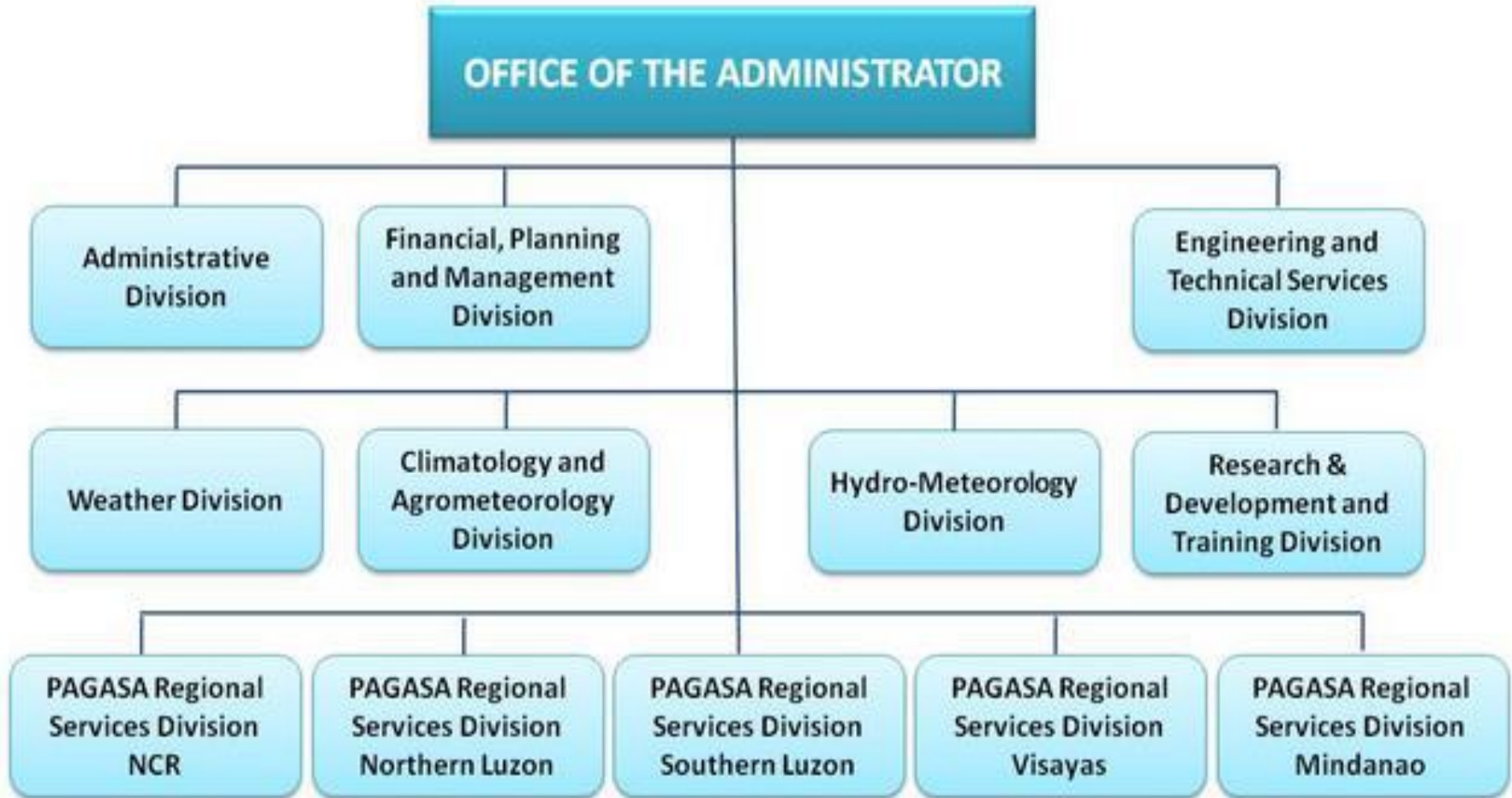
*Executive Order No. 128; January 1987*

1. Maintain weather, climate and flood monitoring facilities;
2. Undertake activities relative to observation, collection, processing and analyses of atmospheric and allied data for the benefit of the diff sectors e.g. agriculture, commerce, industry
3. Engage in researches/studies of Weather, Climate, Flood and geophysical phenomena essential to the safety and welfare of the people;
4. Maintain linkages with different organizations (local and abroad).

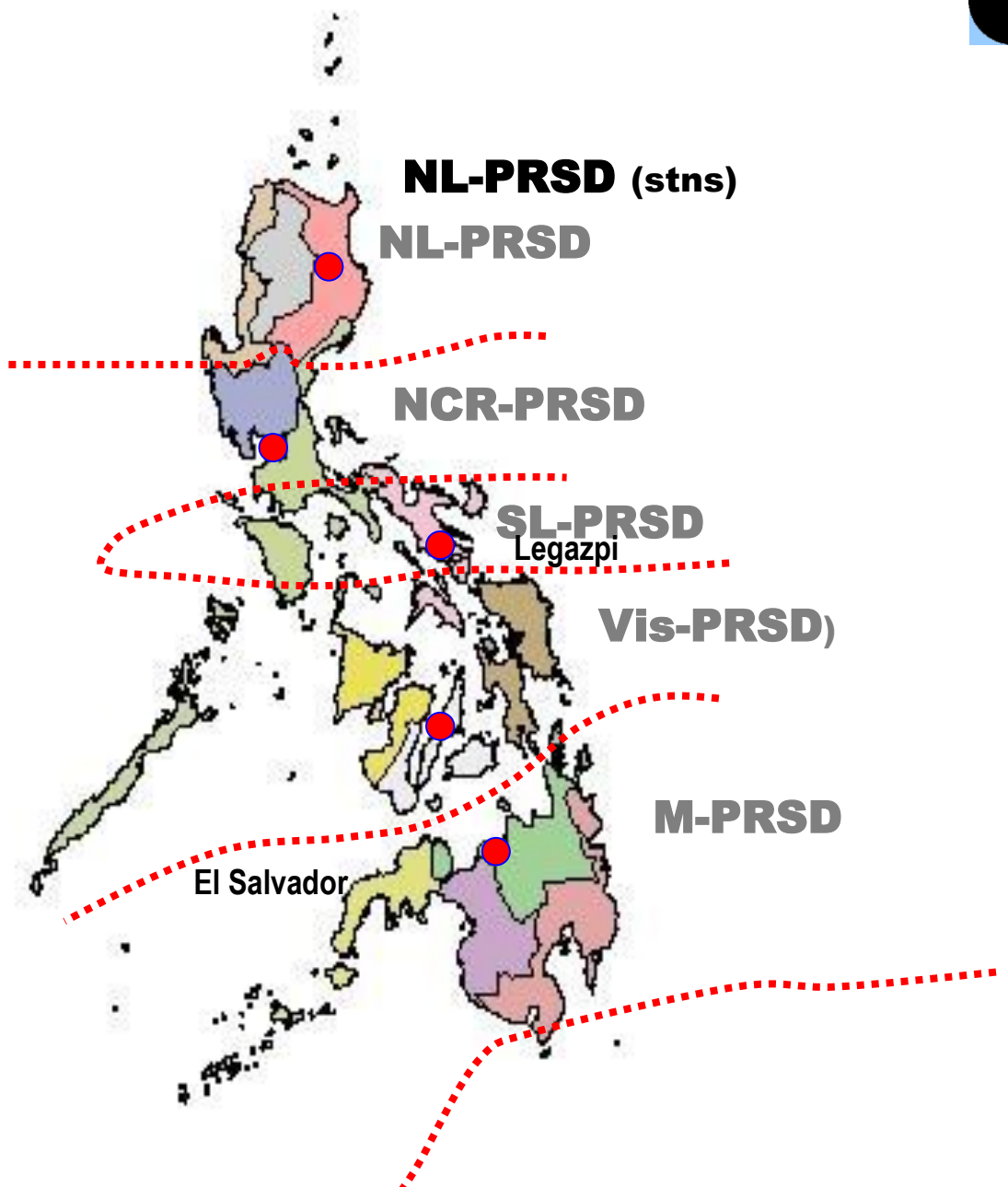


# Organizational Structure

## OFFICE OF THE ADMINISTRATOR



# PAGASA Regl Services Division



# Activities for Water-Related Disasters

*Tracking the sky...Helping the country*



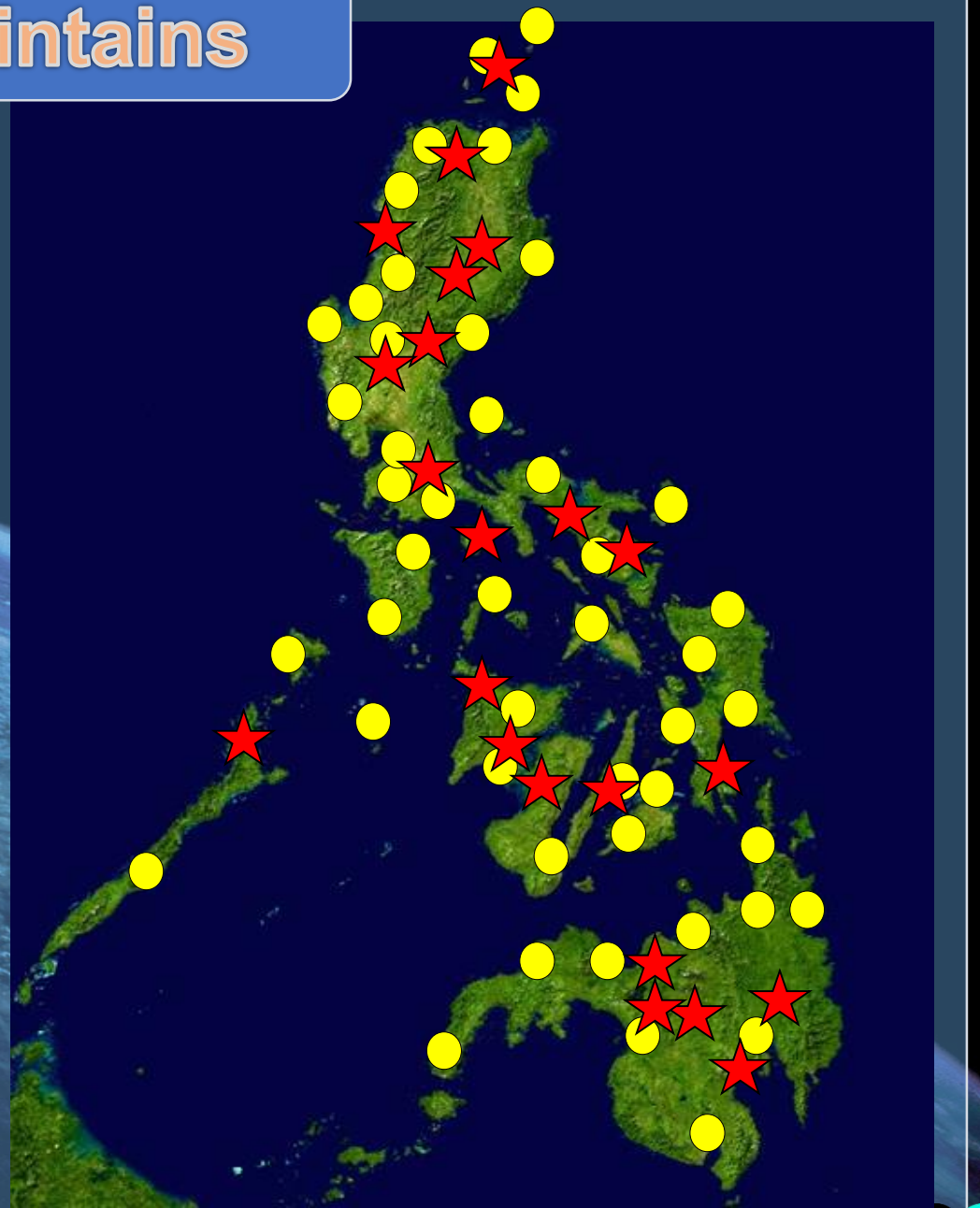


# Operates and maintains



## LEGEND:

- 58 Synoptic Stations
- ★ 25 Agromet Stations



# Operates and Maintains



## Radar Network

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# Operates and Maintains



**UPPER-AIR STATIONS**



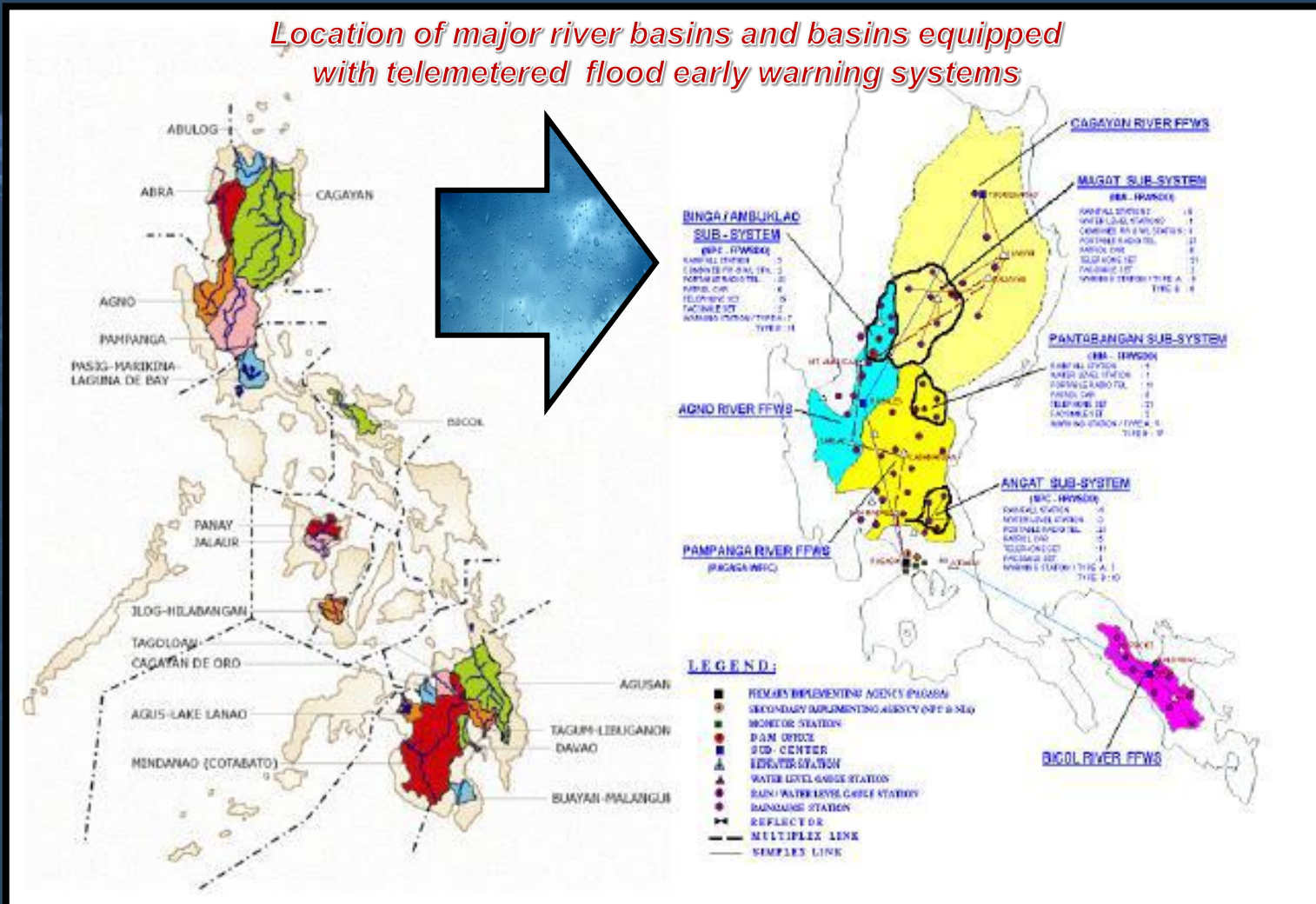
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# Undertakes

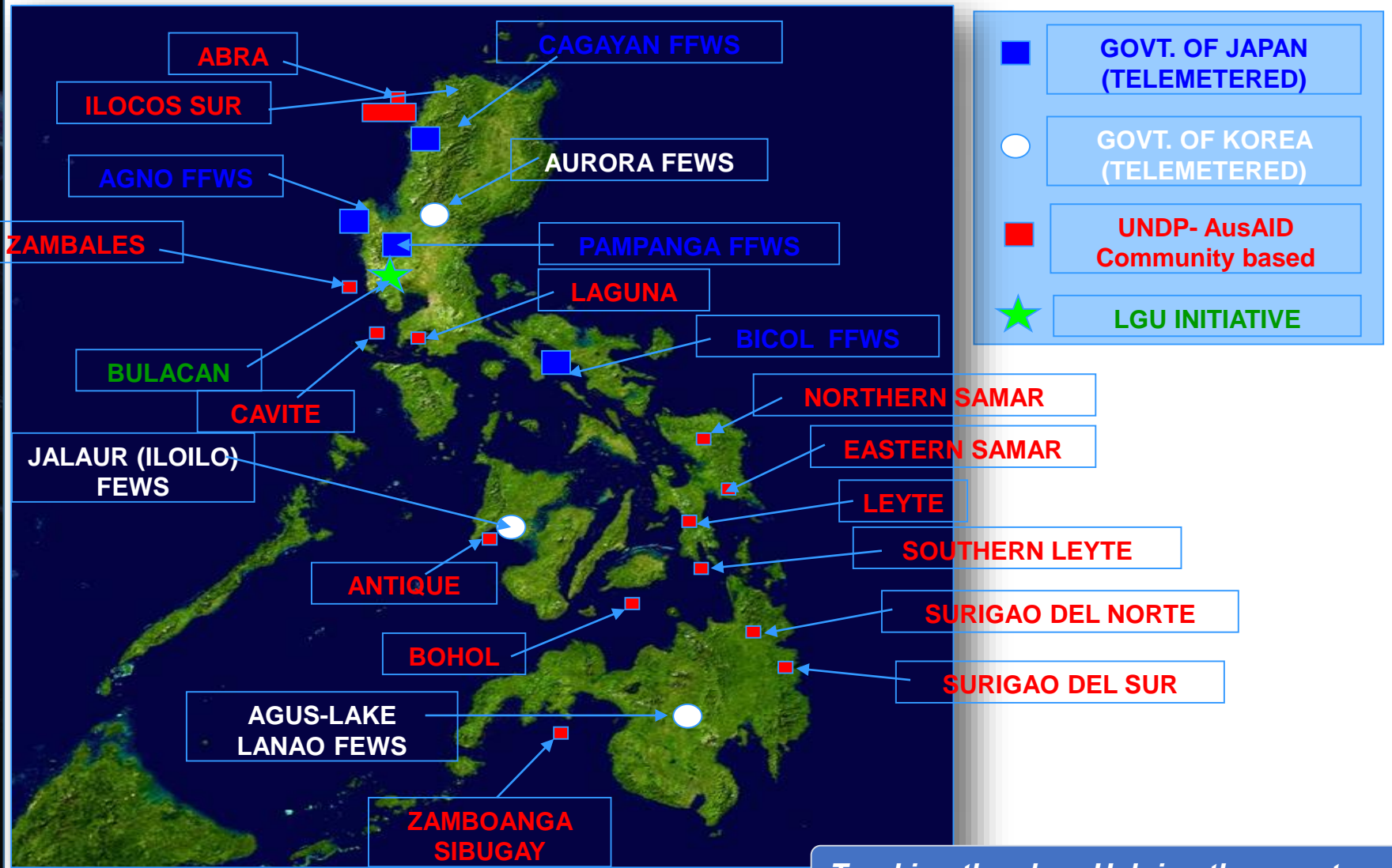
## FLOOD MONITORING & FORECASTING

*Location of major river basins and basins equipped with telemetered flood early warning systems*



# Establishes and Operates

## FLOOD Early Warning System



# Maintains

MTSAT Tuguegarao, Quezon City  
Mactan, El Salvador

MODIS Quezon City

FY2 Quezon City

NOAA Quezon City

WAFS Quezon City, Mactan



## Satellite Receiving Facilities

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# Products and Services

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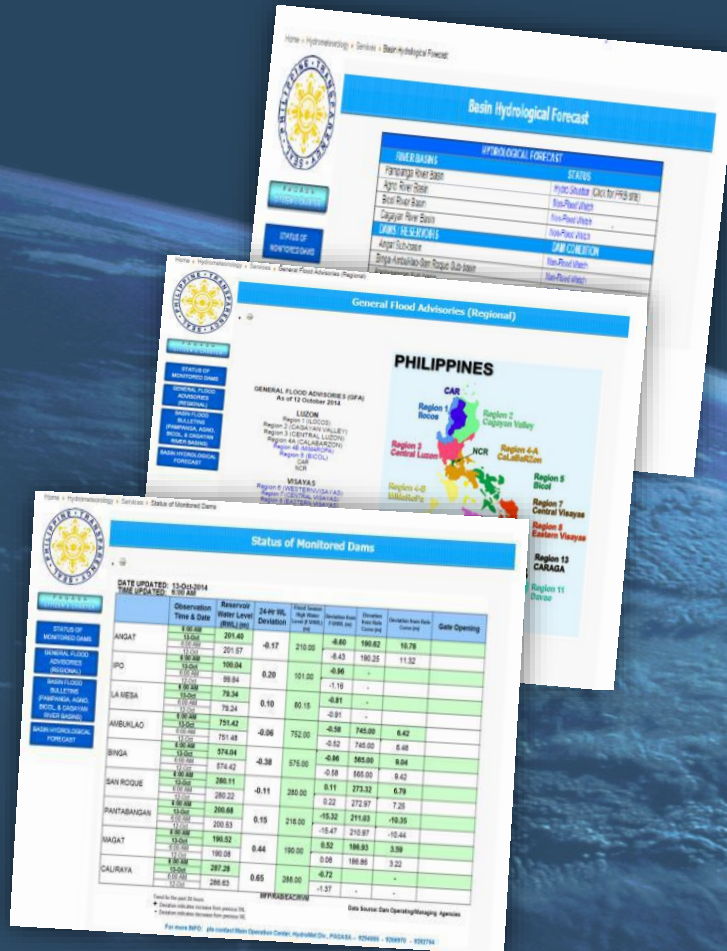


# Products

## Flood Forecasting & Warning Services

### Products



1. Basin Flood Bulletins for Telemetered and Non-telemetered river basins.
2. Dam Discharge Warning Information during spilling operation of the monitored Dams
3. Daily Hydrological Forecasts during Non-flood Watch





# Services

## Nowcasting/warning Services

Hazards	Signal/Warning
Tropical Cyclone	1, 2, 3, 4, 5
Heavy Rainfall	 Be Alert    Be Prepared    Take Action
Thunderstorm	 Information    Watch    Advisory



# Other Services

## *Information, Education and Communication Campaign*

- Public Information Drive with partners
- National Observation of the Typhoon and Flood Awareness Week
- Participation on S & T Exhibits
- Quarterly Conduct of Climate Forum

Radio & TV guesting

- Conduct Press Conference

- IEC Lectures on Weather, Flood, Climate & Astronomy



# Way to go . . .

## **Strengthen Observation network**

- **Establish Flood forecasting and Warning Centers in all major river basins**
- **Establish raingage radars in River basins**

## **. By 2020 – 20 C-band/S-band radar Network**

## **. Robust Communication System**

## **. Enhance Computing Facilities**

## **- Integrated Database MS**

## **. Customize Products and Services**

- **Sector/user oriented**
- **Scenario based forecast**

## **. Focus Researches to improve operational forecasting**



# Way to go . . .

## **Strengthen Linkages/Partnership**

- **Enhance cooperation (Public Information drive)**

## **Human Resource Development**

- **Operational Forecasting**
- **Weather/Flood/Climate**

## **Strengthen Numerical modeling Capability**

- **Advance programming**
- **Data Assimilation**
- **EPS**



# Thank You!!!

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The screenshot displays the PAGASA website interface. At the top, it features the Department of Science and Technology logo and navigation links for DOST HOME, DOST AGENCIES, and DOST REGIONAL OFFICES. The main header includes the PAGASA logo and tagline 'Tracking the sky...Helping the country'. Below this, there are navigation options for HOME, ABOUT US, and CONTACT US. The main content area shows the current date and time (Monday, 13 October 2014) and a search bar. A map of the Philippines is displayed with a color-coded weather forecast. To the right of the map, there is a 'SPECIAL WEATHER FORECAST FOR MAYON' section. Below the map, there is an 'Extended Forecast' table showing weather conditions for the next five days (Oct 13 to Oct 17). The bottom section of the page features a 'News' section with articles about MTC Qualifying Examination, Weather Outlook for SOBA, and a Lecture on Storm Surge Modeling. There are also social media icons for Facebook and Twitter at the bottom.

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