



Common Alerting Protocol in the Philippines

Rome, Italy – September 22-24, 2015



What is PAGASA?

- + **PAGASA** stands for **Philippine Atmospheric Geophysical Astronomical Services Administration**.
- + PAGASA as the National Meteorological and Hydrological Services (NMHS) of the Philippines shall be the **“authoritative”** voice in providing warnings to the public.
- + The Philippines, through the PAGASA is a member of the World Meteorological Organization (WMO), a specialized body of the United Nations

PAGASA on WMO Alert Hub

WMO Register of Alerting Authorities [[home](#)]

OID: 2.49.0.0.608.0 WMO Member: Philippines ISO 3166: PH PHL 608

Issuing Organization: Philippine Atmospheric Geophysical and Astronomical Services Administration

Hazard Categories: Met

Authorization Basis: As a matter of policy, the agency provides typhoon alerts and warnings which is provided to Disaster Risk Reduction Offices and the public through media and web portals and related warning institution.

CAP Feed URL: <http://publicalert.pagasa.dost.gov.ph/feeds/>

Forecasts URL: <http://www.worldweather.org/021/m021.htm>

Alerting Area (NWSE): 19 117 5 127

Map view of the typical area for this alerting authority.

125.19336, 17.90405



Hazard Categories

Geo: Geophysical (earthquakes, volcanoes, tsunami, etc., includes landslide)

Met: Meteorological (weather, storms, etc. includes flood)

Safety: General emergency and public safety

Security: Law enforcement, military, homeland and local/private security

Rescue: Rescue and recovery

Fire: Fire suppression and rescue

Health: Medical and public health

Env: Pollution and other environmental

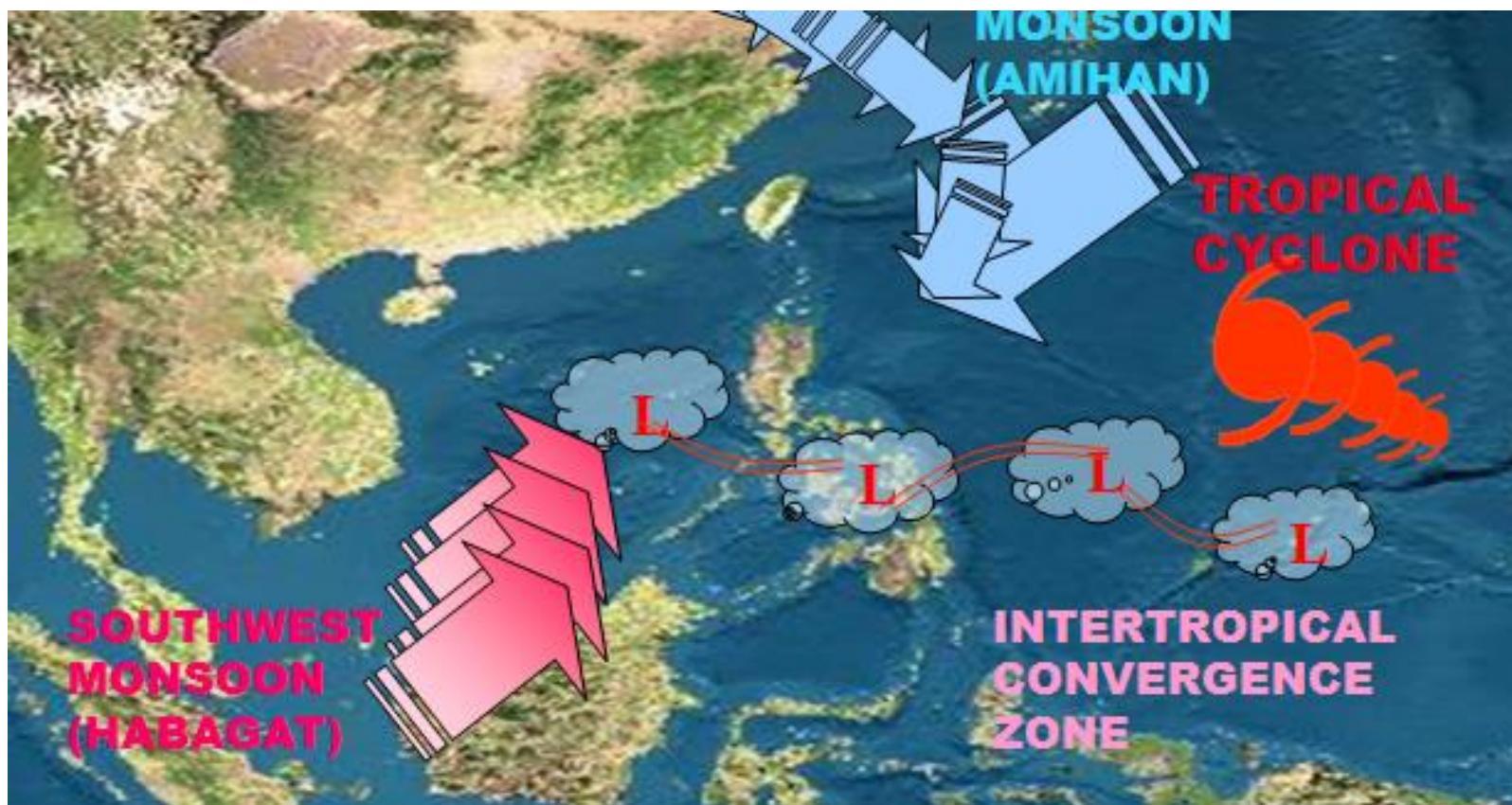
Transport: Public and private transportation

Infra: Utility, telecommunication, other non-transport infrastructure

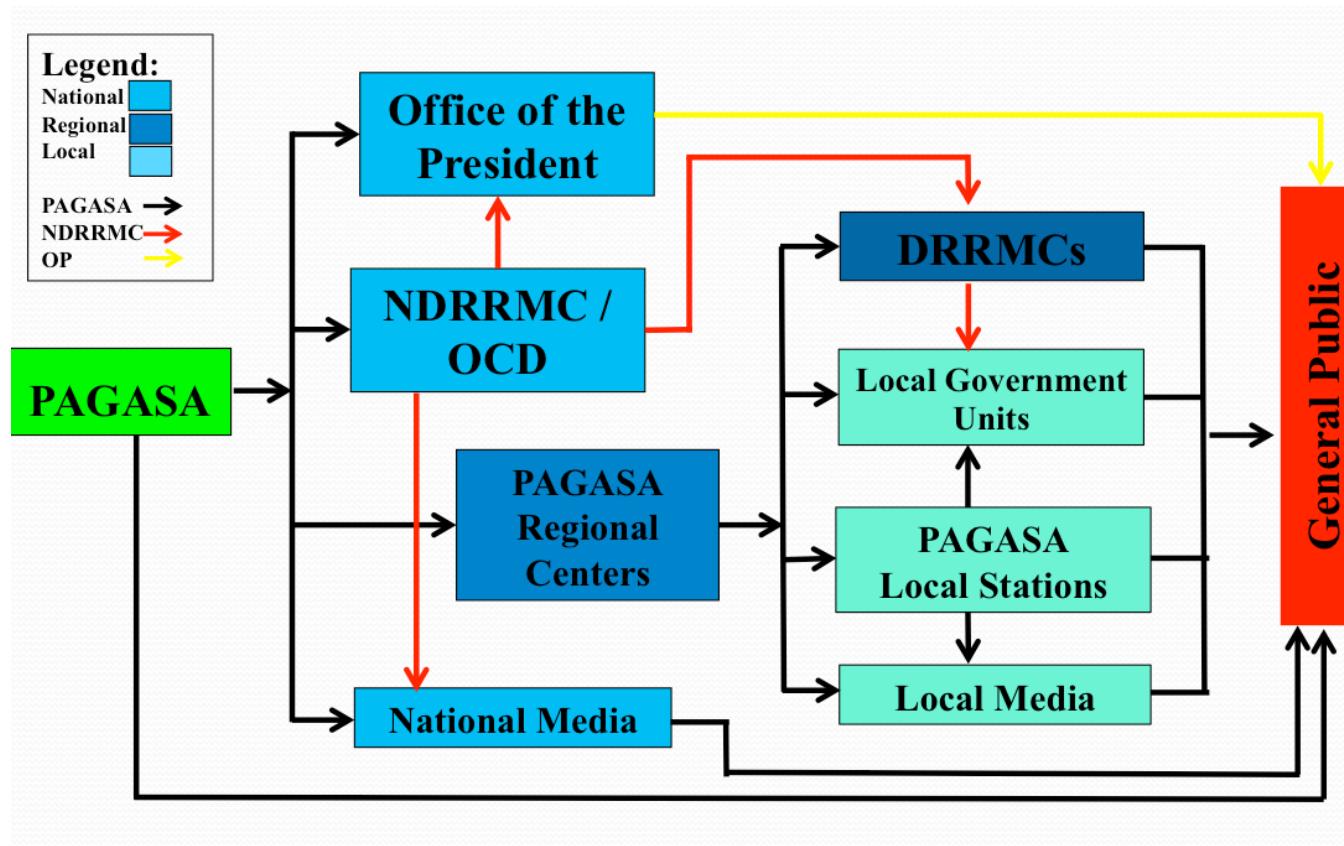
CBRNE: Chemical, Biological, Radiological, Nuclear or High-Yield Explosive threat or attack

Other: Other events

Weather Systems Affecting the Philippines



Information Dissemination Flow



PAGASA CAP Development

- + Initiated by Google on May 2014
- + PAGASA Created a Team for CAP



Development of Tool

CAPv.1 BETA [Home](#) [Create CAP](#) ▾ [More...](#) ▾

References [c839bc31-eae2-4f4c-b58c-9de91d1a91ab](#)

Signal no. 1 Signal no. 2 Signal no. 3 Signal no. 4

Headline

Tropical Cyclone Warning : Tropical Storm Glenda "RAMMASUN" Signal #2

Select Province(s) - Signal No. 2

CAMARINES NORTE × CAMARINES SUR × MASBATE × SORSOGON × ALBAY ×
MARINDUQUE × QUEZON × NORTHERN SAMAR ×

Outputs:

1. PDF (Existing)
2. CAP Alert

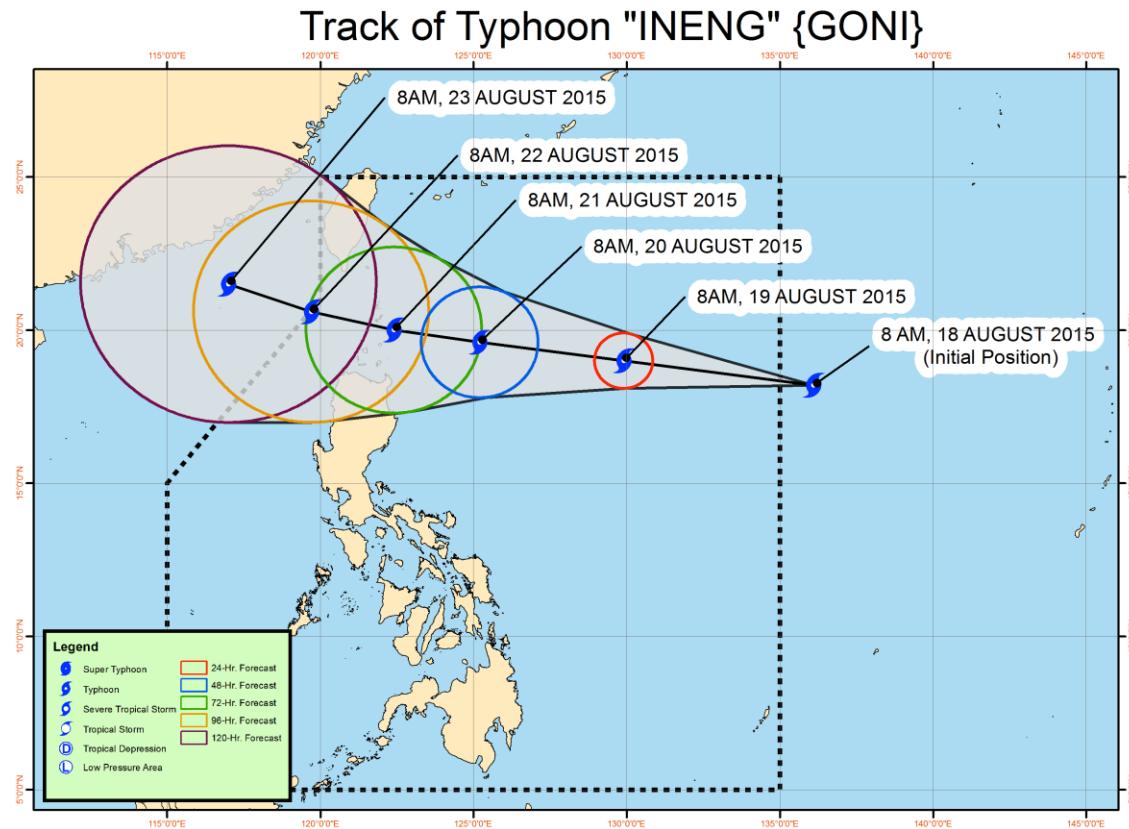
Using the ff:



[google.org](#) Common Alerting Protocol Validator



CAP: Tropical Cyclone Alert



CAP: Tropical Cyclone Warning

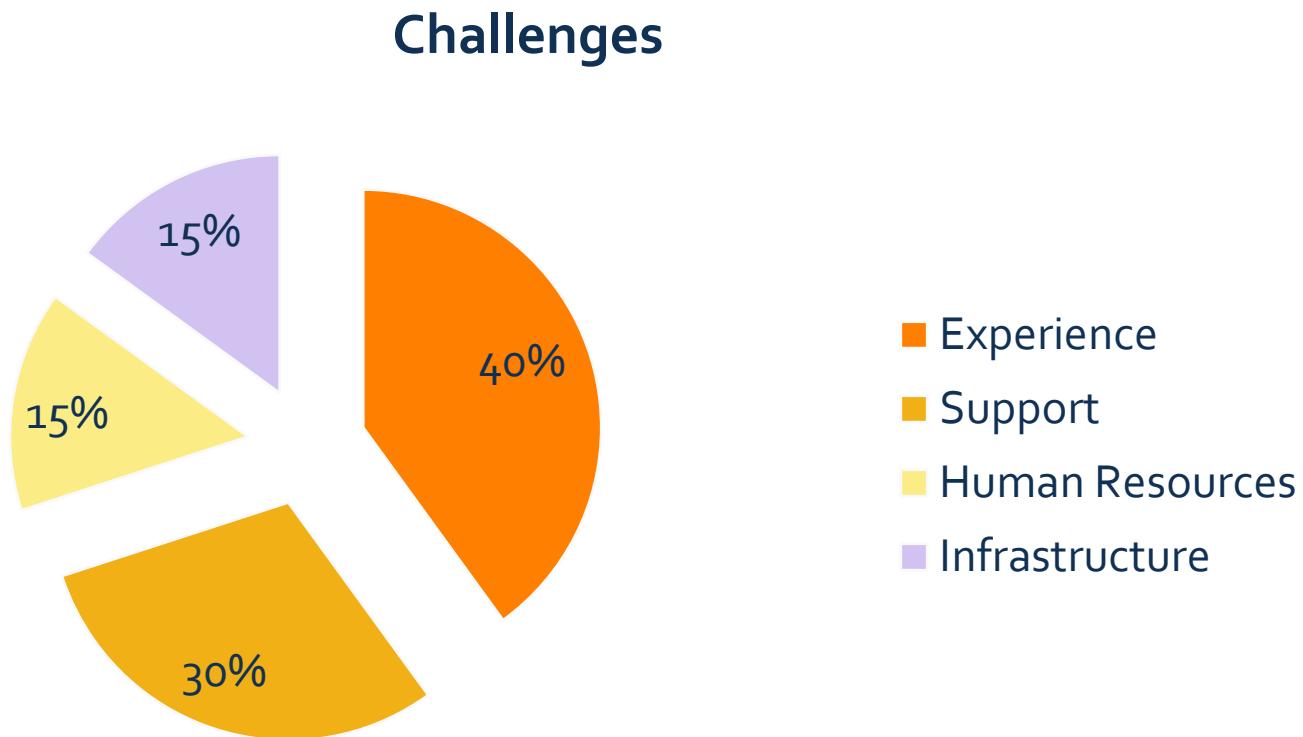


Next Steps..

- + Defining Static and Dynamic Content
- + Testing CAP Alerts with Google
- + Implementation
- + Launching of PAGASA CAP with Google in the Philippines on November 12, 2014



Challenges!



Birth of CAP in the Philippines

Google Public Alerts

Public Storm Warning Signal 1 for Visayas, Mindanao

Active for next 5 hours: 3 minutes

Location: Sustituto Laya, Bilar, Cebu, Negros Oriental, Negros Occidental, Siquijor, Surigao del Norte, Surigao del Sur, Davao del Norte, Davao Oriental, Compostela Valley, Agusan del Sur, Del Norte, Davao del Sur, Misamis Oriental

Show less

Posted 1 hour, 53 minutes ago - PAGASA

How likely: High How soon: 3 hours How severe: Medium

Location of eye:center: At 10:00 AM today, the center of Tropical Depression "QUEENE" was estimated based on available data at 210 km East of Misamis Oriental. It is expected to be at 15 km North of Digos City, and at 195 km West of Puerto Princesa by Friday morning. It is expected to be outside the Public Area of Responsibility (PAR) by Friday evening and at 170 km West of Puerto Princesa or over the west Philippine Sea by Saturday morning.

Forecast Position:

Tropical Depression "QUEENE" is expected to make landfall over Surigao del Sur this afternoon and traverse the Northern Mindanao area tonight. By tomorrow morning, it is expected to be at 15 km North of Digos City, and at 195 km West of Puerto Princesa by Friday morning. It is expected to be outside the Public Area of Responsibility (PAR) by Friday evening and at 170 km West of Puerto Princesa or over the west Philippine Sea by Saturday morning.

Recommended actions:

- Estimated rainfall amount is from 7- 15 mm per hour (moderate - heavy) within the 300 km diameter of the Tropical Depression.
- Residents in low lying and mountainous areas of the provinces with PSWS#1 as well as the rest of Mindanao are alerted against possible flooding.
- Fishermen and those with small seacrafts are advised not to venture out over the eastern seaboard of Visayas and Mindanao.
- The public and the disaster risk reduction and management council concerned are advised to take appropriate actions and watch for the next bulletin to be issued at 5 PM today.

Excerpted from pagasa.dost.gov.ph

What to do:

- Inspect your house to see if repairs are needed.
- Clean up drainage systems.
- Harvest crops that can be yielded.

Precautionary measures:

- Monitor the latest Severe Weather Bulletin issued by PAGASA every six hours and hourly updates.
- In the meantime, business may be carried out as usual except when floods occur.

What is a Public Storm Warning Signal #1?

A tropical cyclone will affect the locality. Winds of 30-40 kph may be expected in at least 30 hours or intermittent rains may be expected within 30 hours.

Affected regions:

- PSWS#1: P00000, P00000, P00000, P00000

Map:

Public Storm Warning Signal 1 for Visayas, Mindanao

Location of eye:center: At 10:00 AM today, the center of Tropical Depression "QUEENE" was estimated based on available data at 210 km East of Misamis Oriental. It is expected to be at 15 km North of Digos City, and at 195 km West of Puerto Princesa by Friday morning. It is expected to be outside the Public Area of Responsibility (PAR) by Friday evening and at 170 km West of Puerto Princesa or over the west Philippine Sea by Saturday morning.

Affected region:

Philippines Crisis Map

Public Alerts

Tropical Cyclone Forecast Track

Clouds Imagery

Traffic alerts from waze.com users

Philippine Area of Responsibility

Map layers:

- PSWS#1
- PSWS#2
- PSWS#3
- PSWS#4
- PSWS#5
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- PSWS#8
- PSWS#9
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CAP alert on HAGUPIT(Ruby)

https://www.google.com.ph/#q=pagasa+weather

Google pagasa weather

Web News Videos Images Maps More Search tools

About 593,000 results (0.16 seconds)

Philippine Weather
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Get The Latest Weather Result Today Stay Informed about PH Weather!
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Public Storm Warning Signal 3
Southern Luzon
5 hours ago – PAGASA
A tropical cyclone will affect the locality. Winds of greater than 100 kph up to 185 kph may be expected in at least 18 hours. Location of eye/center At 10:00 PM today, the ...
More info

In the news

Weather Bulletin Update
Pagasa - 4 hours ago
PAGASA Track as of 8 p.m., 07 December 2014. Satellite Image ... SEVERE WEATHER BULLETIN NUMBER SIXTEEN TROPICAL CYCLONE WARNING: ...
Daily Weather Forecast
Pagasa - 3 hours ago
Lagmay: PAGASA was spot on in Ruby forecast
ABS CBN News - 10 hours ago
More news for pagasa weather

PAGASA | Philippine Atmospheric Geophysical and ...
pagasa.dost.gov.ph/ •
Government agency for weather forecasting, flood control, astronomical observations, and time service.

Weather Bulletin Update
Tropical Cyclone Update: PAGASA Track as of 2 p.m., ...

Forecast Symbols and Terms
Home Weather Forecast Symbols and Terms. Transparency Seal ...

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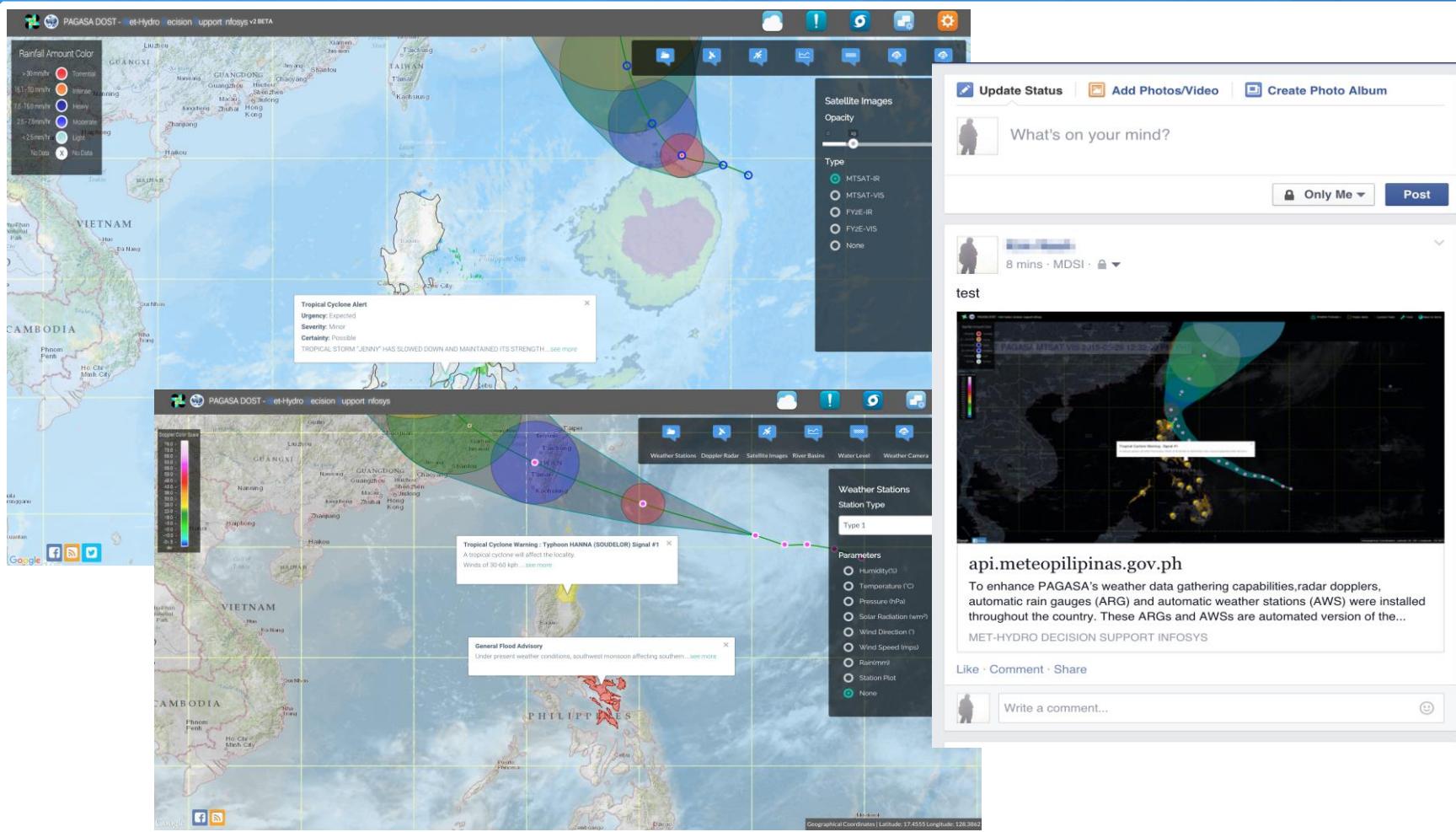
Public Alerts

Public Storm Warning Signal 3 for Southern Luzon
Active for next 2 hours, 27 minutes - PAGASA
Posted 4 hours, 22 minutes ago
A tropical cyclone will affect the locality. Winds of greater than 100 kph up to 185 kph may be expected in at least 18 hours.
Location of eye/center At 4:00 PM today, the eye of Typhoon "RUBY" was located based on all available data at 20 km West of Masbate City, Masbate or in the vicinity of Aroroy, Masbate (12.4°N, 123.4°E).
Strength Maximum sustained winds of 140 kph near the center and gustiness of up to 170 kph.
Forecast Movement: Forecast to move West Northwest at 10 kph.
Forecast Positions
• 24 hour (tomorrow afternoon): 60 km East of Calapan City, Oriental Mindoro or at 160 km South of Science Garden, Quezon City.
• 48 hour (Tuesday afternoon): 170 km Southwest of Science Garden, Quezon City.
• 72 hour (Wednesday afternoon): 400 km West of Science Garden, Quezon City.

Recommended actions
These areas will have stormy weather. Residents in low-lying and mountainous areas are alerted against flashfloods and landslides. Likewise, those living along the coast are warned on the occurrence of big waves associated with Storm Surge which may reach up to 3 meters.
• Expected third landfall: Sibuyan Island between 2-4 AM tomorrow and it will be associated with strong winds, storm surge and heavy to torrential rainfall.
• Estimated rainfall amount is from 10 - >30 mm per hour (heavy - torrential) within the 500 km diameter of the typhoon.
• "RUBY" and the Northeast Monsoon will cause rough to very rough sea conditions over the seaboards of Luzon and Visayas and over the northern seaboard of Mindanao. Fisherfolks and those using small sea craft are advised not to venture out over the said seaboards.
• Expected to Exit PAR: Thursday morning.

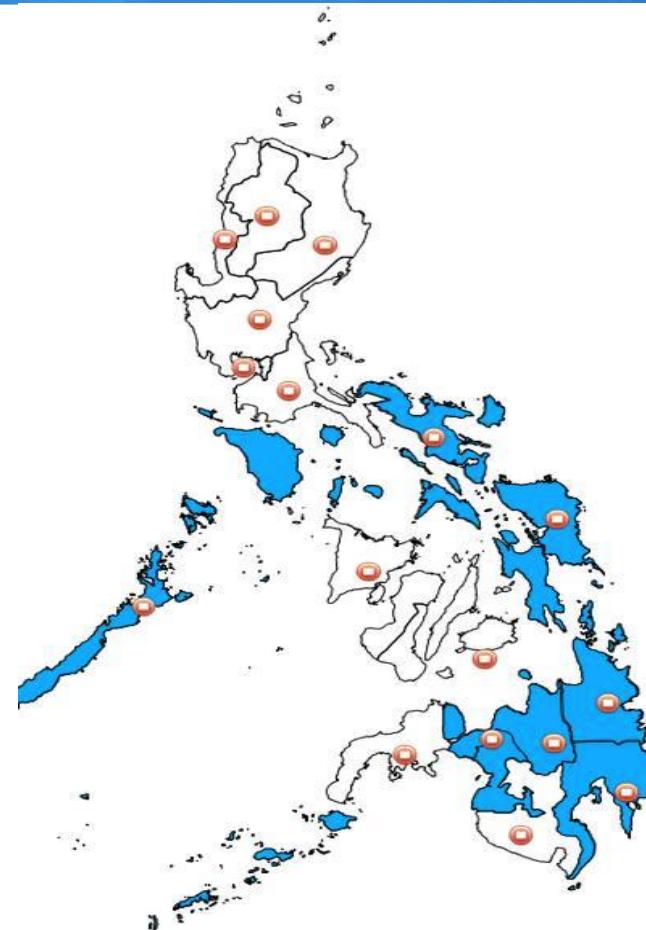
Other alerts in this area

On-Going Activities within PAGASA



On-Going Activities within PAGASA

- + General Flood Advisory (GFA)
- + General Flood Bulletin (GFB)



General Flood Advisory Tool

PAGASA CAP HMD Forecasting Settings

Republic of the Philippines
Department of Science and Technology
PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND
ASTRONOMICAL SERVICES ADMINISTRATION (PAGASA)
PAGASA Science Garden, Agham Road, Diliman, Quezon City 1100

General Flood Advisory

1

For NCR (National Capital Region)

Issued at 6:00 pm, 24 September, 2015

Valid until the next issuance at 6:00 pm tomorrow

PRESENT WEATHER :

FORECAST 24 - HR RAINFALL :

WATERCOURSES LIKELY TO BE AFFECTED :

METRO MANILA remove

All rivers and streams in Metro Manila.

- Select Province -

PUBLIC WARNINGS :

People living near the mountain slopes and in the low lying areas of the above mentioned river systems and the Local Disaster Risk Reduction and Management Councils concerned

are advised to take necessary precautionary measures.

Prepared by :

Initials

Duty Hydrologists

REPUBLIC OF THE PHILIPPINES
Department of Science and Technology
Philippine Atmospheric, Geophysical and
Astronomical Services Administration (PAGASA)
PAGASA Science Garden, Agham Road, Diliman, Quezon City 1100

GENERAL FLOOD ADVISORY # 8
For REGION 6 (WESTERN VISAYAS)
Issued at 6:00 PM, 22 September 2015
(Valid until the next issuance at 6:00 pm tomorrow)

FORECAST WEATHER:
SOUTHWEST MONSOON AFFECTING VISAYAS AND MINDANAO.

FORECAST 24-HR RAINFALL:
RATE RAINS AND ISOLATED THUNDERSTORMS

CAP

O BE AFFECTED:

IND ITS TRIBUTARIES PARTICULARLY PINANTAN, BAROTAC, AMALIGAN, JALAUD, JALANO, JAGDONG, JALAU, LAMUNAN, JARO, AGAMAN, SIBALOM AND GUIMBAL.

- **ANTIQUE** RIVERS AND ITS TRIBUTARIES PARTICULARLY SIBALOM, IPAYO, CAGARANAN, PALAWAN, CAIRAUAN, DANLAS AND TIBIAO.
- **CAPIZ** RIVERS AND ITS TRIBUTARIES PARTICULARLY PANAY, MAMBUSAO, PANAY MALINAO, ALUNGON AND BALANTIAN.
- **AKLAN** RIVERS AND ITS TRIBUTARIES PARTICULARLY IBAJAY, AKLAN AND JALO.
- **NEGROS OCCIDENTAL** RIVERS AND ITS TRIBUTARIES PARTICULARLY MALOGO, SICABA, GRANDE, HIMOCAAN, DANAO, UPPER TYABANAN, SIPALAY, LOWER HILABANGAN, UPPER ILOG, BINALBAGAN

DISASTER RISK REDUCTION AND MANAGEMENT COUNCILS:
PEOPLE LIVING NEAR THE MOUNTAIN SLOPES AND IN THE LOW LYING AREAS OF THE ABOVE MENTIONED RIVER SYSTEMS AND THE LOCAL **DISASTER RISK REDUCTION AND MANAGEMENT COUNCILS** CONCERNED ARE **STILL ADVISED** TO TAKE PRECAUTIONARY MEASURES

PREPARED BY:

RAB/EAC
Main Operation Center-Flood Forecasting and Warning Section (MOC-FFWS)
Hydrometeorology Division

General Flood Bulletin

FASASA CAP HMD Forecasting Settings

Republic of the Philippines
Department of Science and Technology
PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION
PAGASA

Philippine River Flood Forecasting and Warning Center, HMD NCR-PRSD
DMSG, Brgy. Mainpis, San Fernando City, Pampanga

FLOOD FORECASTING BRANCH

Pampanga River Flood Forecasting and Warning Center, HMD NCR-PRSD
DMSG, Brgy. Mainpis, San Fernando City, Pampanga

Flood Bulletin No. 1 Pampanga River Basin

Issued at 5:00 am, 20 September 2014

Valid until the next issuance at 5:00 am today

Average Basin Rainfall as of 5:00 am today:

PAST 24 HOURS 0 mm

FORECAST FOR THE NEXT 24 HOURS 0 mm

Basin Expected Response





Water Level Station / Location	River/Lake/Swamp Trend at Station	Flood Situation Message	Low-lying areas likely to be affected
San Isidro Station, Pampanga River	Now at 2.66m / slow increase to peak before noon today (3.20m Alert WL)	Flooding is possible	Jaen, San Isidro and Cabilao
Candaba Station, Candaba Swamp	Now at 5.87m still above 5.0m critical level / slow filling-up of swamp area but to level-off this afternoon	Flooding to persist and remain	Candaba (Pampanga); Portions of San Miguel & San Ildefonso (Bulacan) within the swamp area.
Arayat Station, Pampanga River	Now at 7.94m (Above 6.0m alarm WL) / to increase further (8.5m Critical WL)	Flooding to occur	Riverside areas of Arayat, San Luis and San Simon
Sasmuan Station,	Now at 2.10m / to fluctuate (tide influenced)	Flooding is possible	Sasmuan, Lubao and Guagua

Department of Science and Technology
PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION (PAGASA)
Pampanga River Flood Forecasting and Warning Center, Hydro-Meteorology Division/NCR-PRSD
Brgy. Mainpis, San Fernando, Pampanga (Government Center) <http://www.pffwc.webs.com>

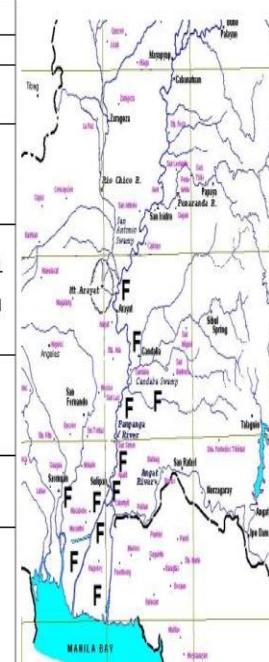
FLOOD BULLETIN NO. SEVEN (7) - PAMPANGA RIVER BASIN AND ALLIED RIVERS
ISSUED AT: 5:00 AM, 14 OCTOBER 2013
VALID UNTIL THE NEXT ISSUANCE AT 5:00 PM TODAY UNLESS THERE IS AN INTERMEDIATE BULLETIN
BASIN RAINFALL AS OF 5:00 AM TODAY:
PAST 24-HR = 4.3 MM FORECAST 24-HR = < 10 MM

BASIN EXPECTED RESPONSE:

WATER LEVEL STATION (STN)	RIVER/ SWAMP WATER LEVEL (WL) TREND AT STATION	FLOOD SITUATION MESSAGE	PARTICULAR LOW-LYING AREAS
ARAYAT STN.	FEW	RIVERSIDE AREAS OF ARAYAT, CANDABA, SAN LUIS, SAN SIMON	
CANDABA STN., CANDABA	NOW AT 6.46 M / HAD LEVELED-OFF LAST NIGHT; A VERY SLOW RECESSION IS IN PROGRESS (CRITICAL WL IS 5.0 M)	FLOODING TO PERSIST	CANDABA SWAMP AREA: PORTIONS OF SAN MIGUEL AND SAN ILDEFONSO (BULACAN), SAN LUIS, SAN SIMON, AND APALIT (PAMPANGA)
SULIPAN STN., PAMPANGA RIVER	WL	FLOODING TO PERSIST	RIVERSIDE AREAS OF APALIT, MACABEBE, MASANTOL, CALUMPIT, HAGONOY
COASTAL FLOODING IN THE LOW-LYING AREAS (TIDE INFLUENCED AREAS) BY TOMORROW MORNING			
THE RESIDENTS AND THE LOCAL DISASTER RISK REDUCTION & MANAGEMENT COUNCILS (LDRRMCs) CONCERNED ARE ADVISED TO CONTINUE TO TAKE APPROPRIATE ACTIONS.			

EXPECTED FLOOD SITUATION:

P = POSSIBLE T = THREATENING O = OCCUR F = PERSIST





PRFFWC - HTH / JRD

CAP on a MAP: Kickoff Workshop



CAP on a MAP: Implementers Training



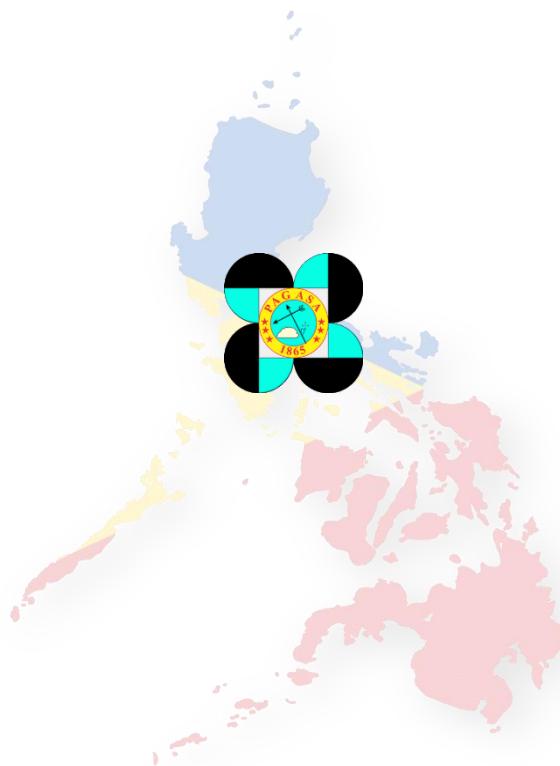
Future Development

- + Additional CAP alerts
- + Improving existing alerts
- + Inter-agency collaboration

CAP Development Team in Philippines



Thank you!



Tracking the sky...Helping the Country