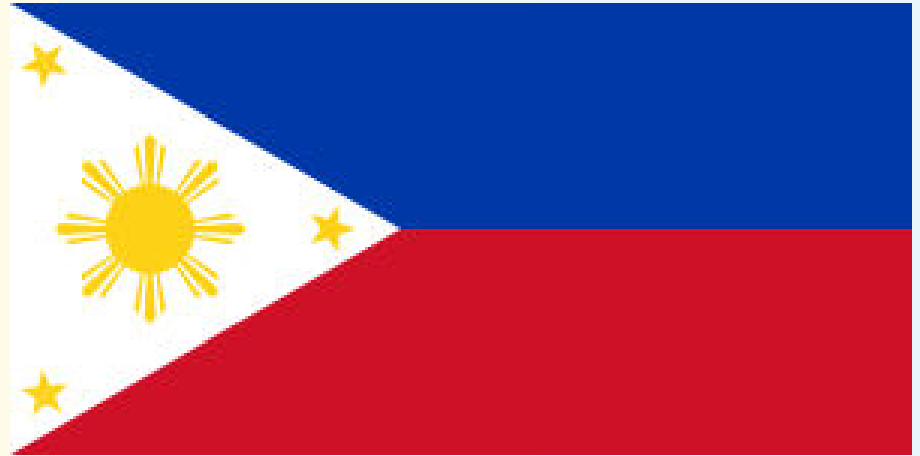


Republic of the Philippines  
Department of Science and Technology  
Philippine Atmospheric, Geophysical and Astronomical Services Administration



# Effects of Monsoons in the Philippines

**ROMEO B. GANAL, Jr.**



**PAGASA**  
The Weather and Climate Authority

Payong  
**PAGASA**





**PAGASA** as the National Meteorological and Hydrological Services (NMHS) of the Philippines is the **"authoritative"** voice in providing the warning for public safety

The Philippines, through the **PAGASA**, is a Member of the **World Meteorological Organization (WMO)**, a specialized body of the United Nations



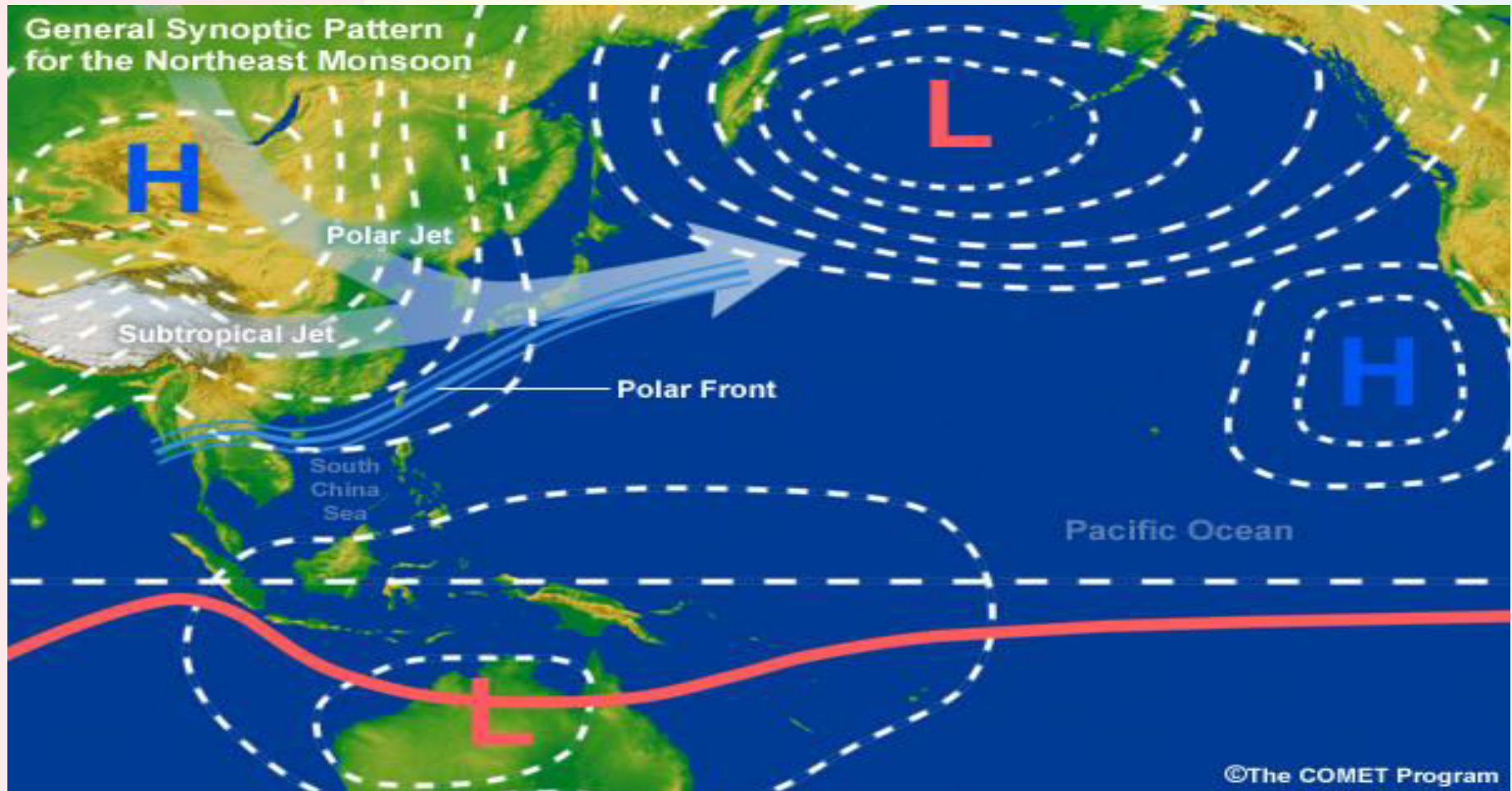
# OUR MISSION

**Protect lives and properties  
through timely, accurate and  
reliable weather-related  
information and services**

# Northeast Monsoon (Amihan)

- The Northeast Monsoon features cool and dry air that originates in a vast anticyclone - a weather system with a high barometric pressure - which forms over Siberia, Mongolia and northern China during each northern winter.
- It causes cloud development and rainfall at the eastern sections of the country.
- It normally occurs during the months of November to February each year.

# ONSET OF THE NORTHEAST MONSOON





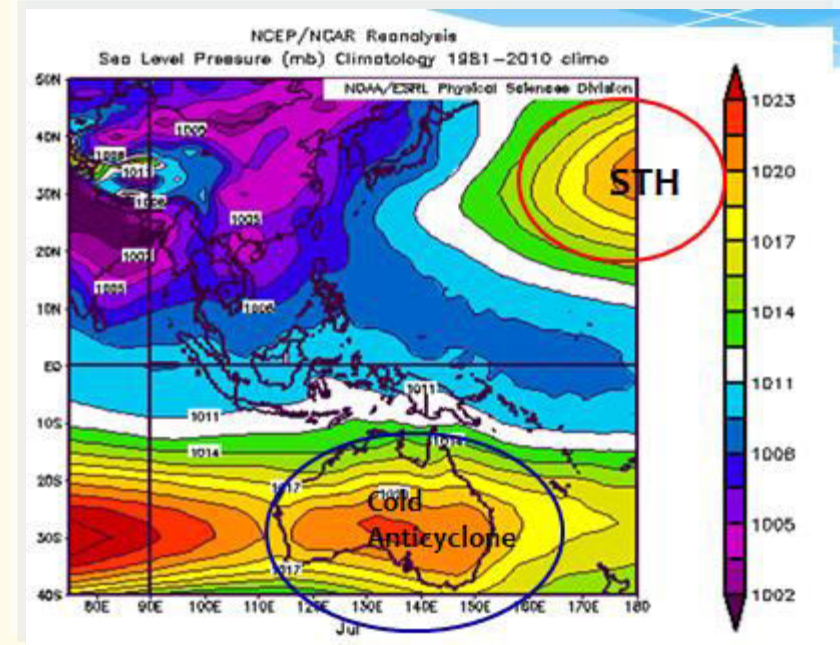
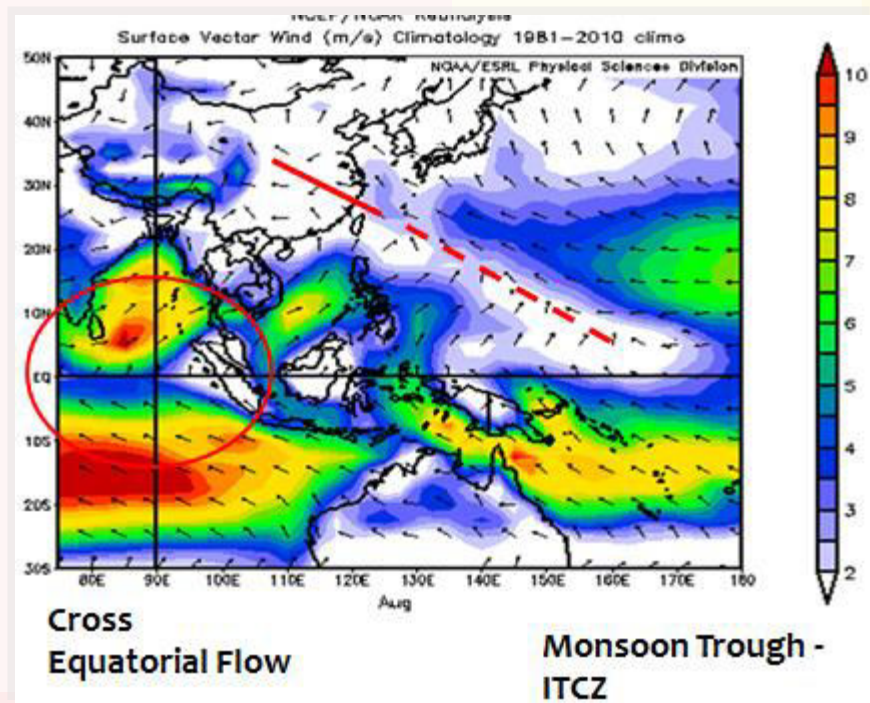
# Extremes caused by NE Monsoon events



# Southwest Monsoon (Habagat)

- Seasonal winds blowing from the southwest direction.
- It causes extensive cloud development and rainfall at the western sections of the country.
- Occurs during the months of June to October each year.

# ONSET OF THE SOUTHWEST MONSOON





# Extremes caused by SW Monsoon events

August 6-8, 2012



August 18-20, 2013

#MaringUpdates



# Extremes caused by SW Monsoon events

September 18-20, 2014



## DAMAGES:

HABAGAT EVENT	CASUALTIES		INFRA+AGRI (PhP)	(US\$)
Aug. 6 - 8, 2012	<b>112 dead</b>	14 injured	₱ 3.18 Billion	<b>\$71.282 M</b>
Aug. 18-20, 2013	27 dead	30 injured	₱ 689.376 Million	\$15.441 M
Sep. 18-20, 2014	18 dead	16 injured	₱ 3.399 Million	\$7.615 M



**Salamat Po!**

**Kamsahamnida!**

**Thank You!**



# THANK YOU!

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**Climate**

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**Flood**

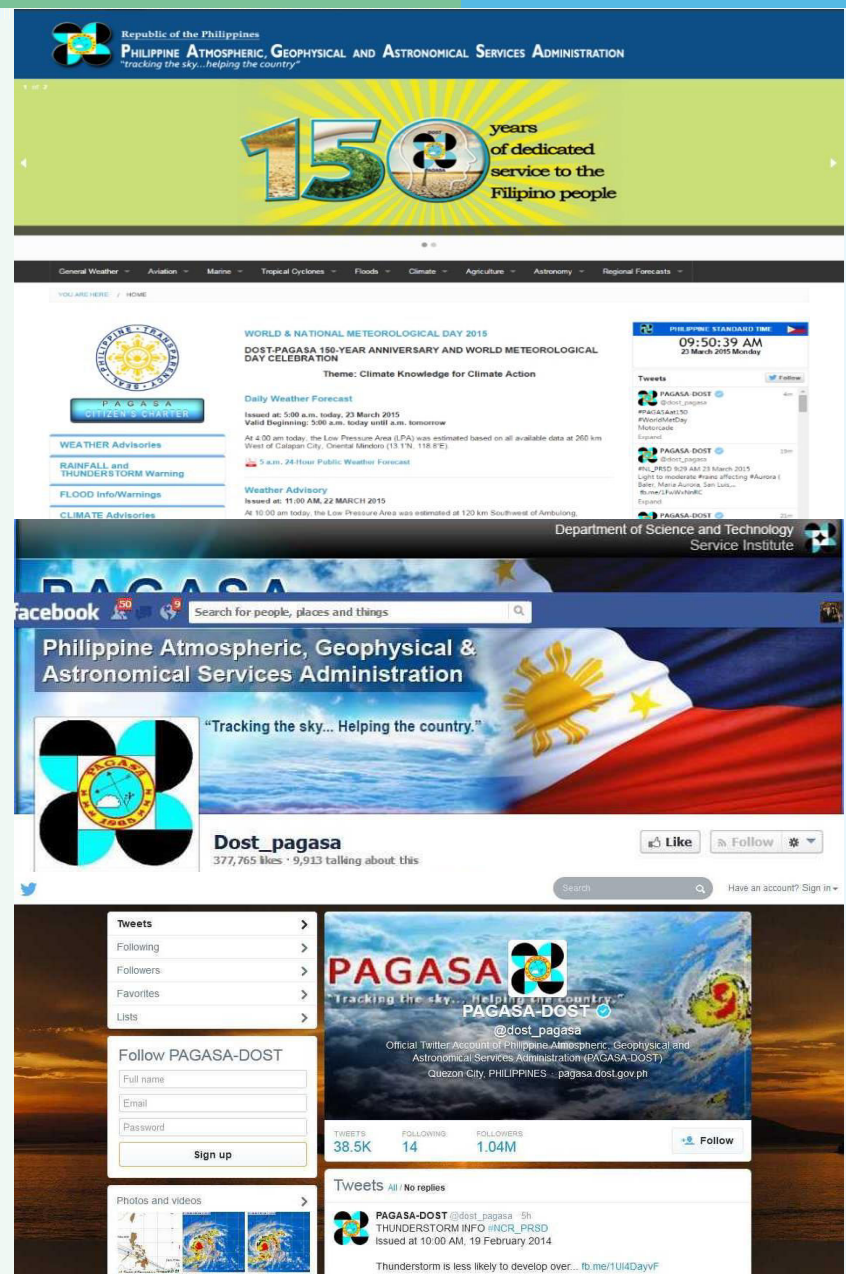
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