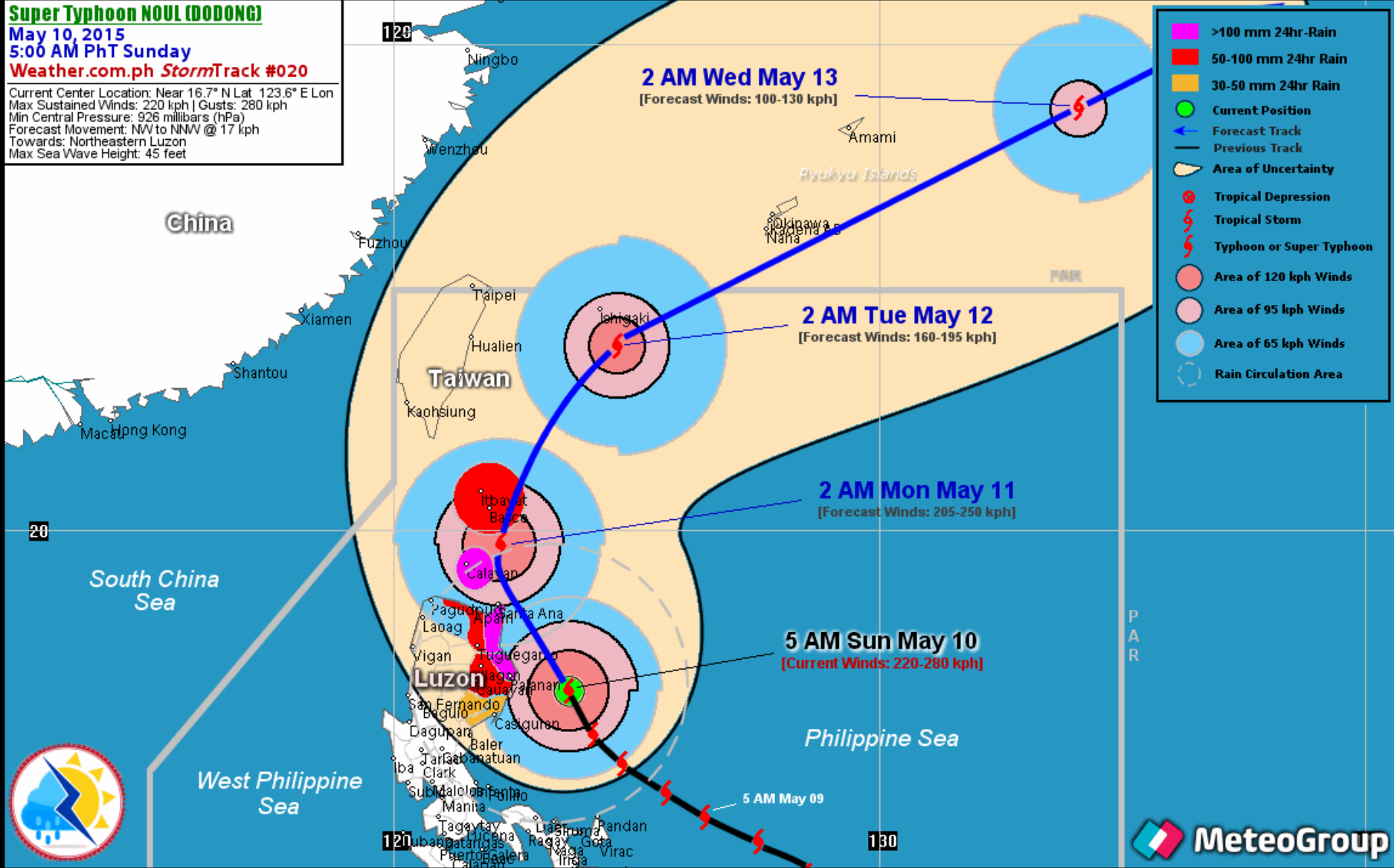


Super Typhoon NOUL (DODONG)
May 10, 2015
5:00 AM PhT Sunday
Weather.com.ph StormTrack #020

Current Center Location: Near 16.7° N Lat 123.6° E Lon
 Max Sustained Winds: 220 kph | Gusts: 280 kph
 Min Central Pressure: 926 millibars (hPa)
 Forecast Movement: NNW to NNW @ 17 kph
 Towards: Northeastern Luzon
 Max Sea Wave Height: 45 feet



- >100 mm 24hr-Rain
- 50-100 mm 24hr Rain
- 30-50 mm 24hr Rain
- Current Position
- Forecast Track
- Previous Track
- Area of Uncertainty
- Tropical Depression
- Tropical Storm
- Typhoon or Super Typhoon
- Area of 120 kph Winds
- Area of 95 kph Winds
- Area of 65 kph Winds
- Rain Circulation Area



CURRENT CYCLONE INFORMATION

As of **11:00 AM PhT today, Jan 17...0300 GMT.**

Classification/Name: **TY Mekkhala (Amang)**

Location: **Over the western part of the Philippine Sea (near 11.6N 126.3E)**

About: **100 km east of Borongan City, Eastern Samar...or 145 km east-northeast of Tacloban City, Leyte**

Maximum Sustained Winds (10-min avg): **120 kph** near the center...Gustiness: **150 kph**

24 hr. Rain Accumulation (near and north of the center): **50 to 500 mm [Moderate to Extreme]**

Minimum Central Pressure: **970 millibars (hPa)**

Size of Circulation [Convective Cloud-Based, in diameter]: **900 km (Medium)**

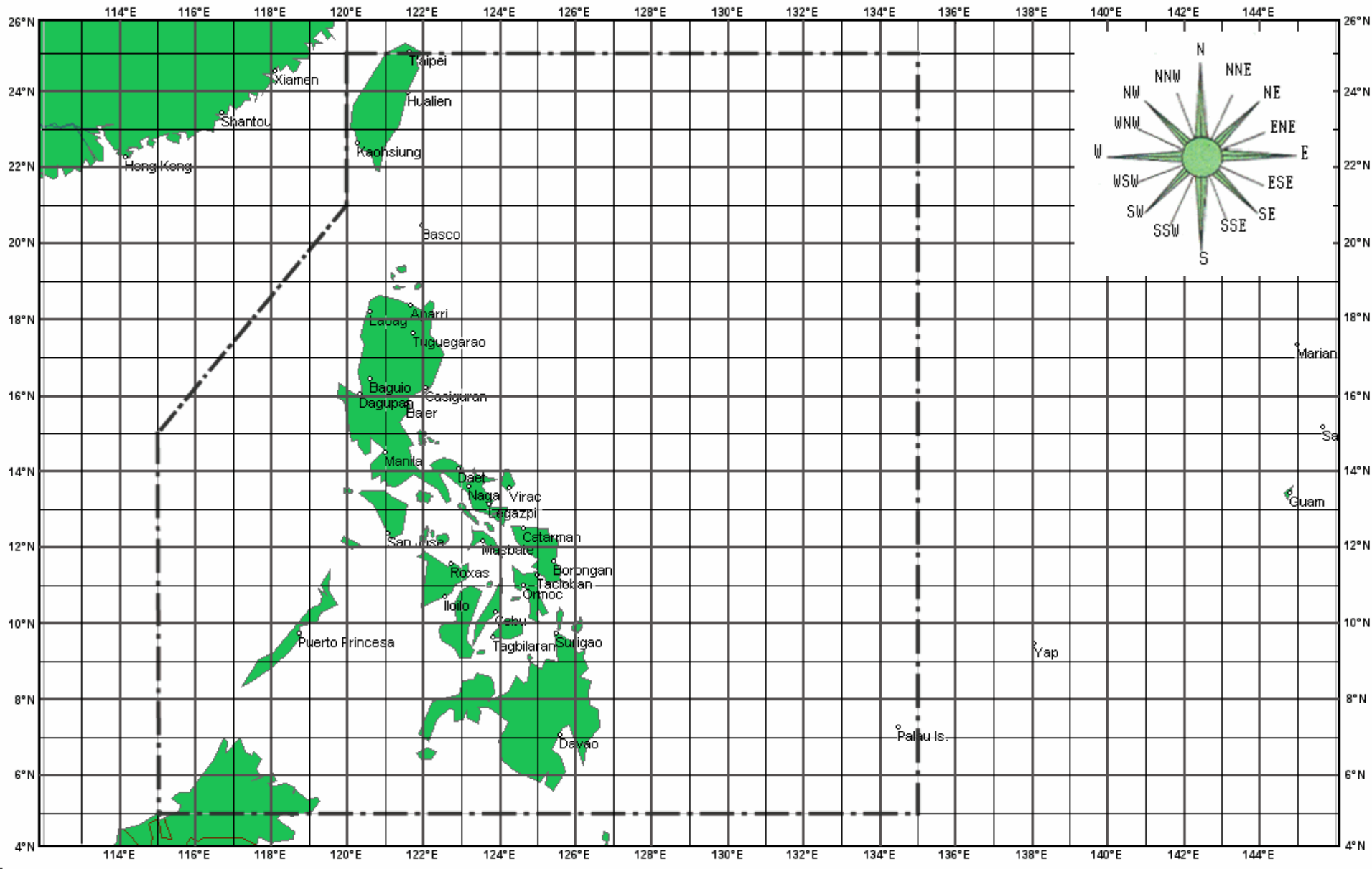
Area of Damaging Winds (95 kph or more): **55 km from the center**

Past Movement: **Northwest @ 20 kph**

Forecast Movement: **Northwest to West-Northwest @ 17 kph**

Towards: **Eastern Samar**

TC NAME: _____ Date of Occurrence: _____



TROPICAL CYCLONE 101

EXERCISE

GIVEN:

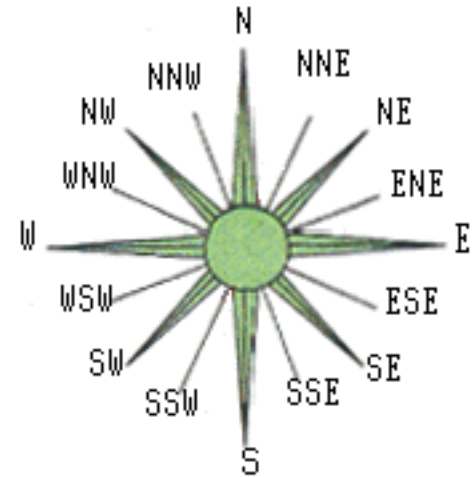
TYPHOON "A"

Initial Position at 8:00 AM (0000 UTC): **9.0°N 138.0°E**

Forecast 24-hr Movement: **Northwestward @ 26 kph**

Maximum Sustained Winds near the center: **180 kph**

Radius of Damaging Winds (95 kph or more): **150 km**



FORMULA:

Distance = Speed × Time

Speed = Distance ÷ Time

Time = Distance ÷ Speed

Round off values of distance and time to the nearest ten.

- 1.) Plot Typhoon A's position at 8:00 AM on the chart. Determine: a.) Typhoon A's position (coordinates) after 24 hours (day 1); b.) the time it enters the Philippine Area of Responsibility (PAR @ 135°E longitude). Use the scale at the upper right of the chart.
- 2.) What is its speed and direction if it is located at 15.0°N 127.0°E after the next 24 hours (day 2)?
- 3.) Find its location after the succeeding 24 hours (day 3) if it changes its course to the west with the same speed.
- 4.) Determine the time that strong winds of 95 kph start to affect Manila.
- 5.) Determine the Closest Point of Approach (CPA) (distance, bearing and time) of the typhoon to Manila. CPA can be determined by taking the typhoon's nearest (perpendicular) distance from its path to a reference place.

TC NAME: _____ Date of Occurrence: _____

ANSWERS:

- 1.) a.) 13.0°N 134.0°E ; b.) 2:00 AM of day 1
- 2.) 33 kph; WNW
- 3.) 15.0°N 119.8°E
- 4.) 12:00 midnight on day 3 (15.0°N 122.3°E)
- 5.) CPA = 50 km North of Manila @ 5:00 AM of day 3 (15.0°N 121.0°E)

