

2000 UTC 24 August 2017 Forecast Discussion

Summary

Convection persisting over the west coast of Luzon may weaken slightly, before rainband convection from TD 16 is expected to affect the area of interest within the next 24 hours. Southerly wind will continue to decrease, but we may see stronger gusts from convection. Wave heights will also continue to decrease until the passage of TD 16.

Day One (24 hr) Outlook: Expect decreasing winds and decreasing significant wave heights. Convection from the outer rainband of TD 16 can be felt in our area of interest within 24 hours. TD 16 is expected to make landfall on the east coast of Luzon.

Day Two (48 hr) Outlook: TD 16 is expected to reach the area of interest after passing over Luzon. Expect maximum sustained winds of around 45 knots associated with TD 16, heavy rainfall, and increasing significant wave heights.

Extended Outlook: TD 16 may intensify into a hurricane and take a similar path as Hato. Invest 97W is expected to develop a closed low, but may not affect our area of interest. Weather may be characterized by isolated convection after the passage of TD 16.

Discussion

TCs: Invest 96W is now TD 16 with maximum sustained winds of 30 kts, and is located due east of Luzon (Fig. 1). TD 16 is tracking westward towards Luzon, with forecast landfall on the east coast of Luzon around 12 UTC on the 25th (Fig. 2). It is expected to emerge over the waters west of Luzon, in our area of interest, by 00 UTC on the 26th with maximum sustained winds of 45 kts. However, there is some uncertainty in the forecast position and intensity of TD 16.

Convection: Deep convection is persisting over the waters west of Luzon. The outer band of TD 16 may be felt in the area of interest within the next 24 hours (Fig. 3). JTWC has also declared an Invest 97W on persistent deep convection east of the Mariana Islands. According to long range forecast, this invest is not expected to affect the area of interest. But it is worth taking note for future forecasts.

MJO/BSISO: Both the BSISO and MJO signals remain weak. An eastward moving signal from the Indian Ocean is expected to move through to the West Pacific over the next week.

SSTs: SSTs over the larger area of interest generally remain warm in the range of 29 to 30.5 degrees.

Currents and Wave Heights: Surface currents increased up to 1 m/s along the northwest coast of Luzon. Southerly winds is expected to decrease to below 10 kt in the next 36 hours, with corresponding decrease in significant wave heights over the west coast of Luzon from over 5 ft to 2-3 ft. There's a potential for high waves associated with the passage of TD 16 beyond 48 hours.

FORECASTERS: NAM, RAZIN

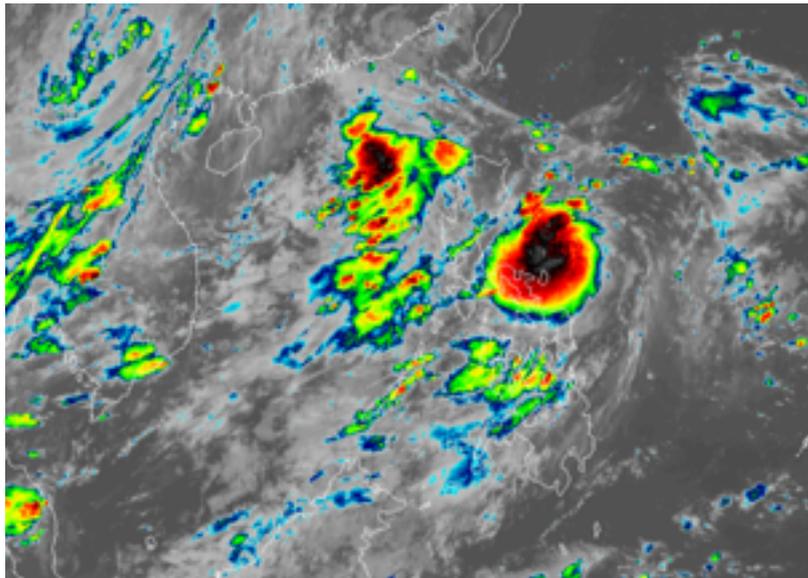


Fig. 1. IR imagery at 1710 UTC 24 Aug 2017 from Himawari-8 showing TS Hato north of Luzon [1]

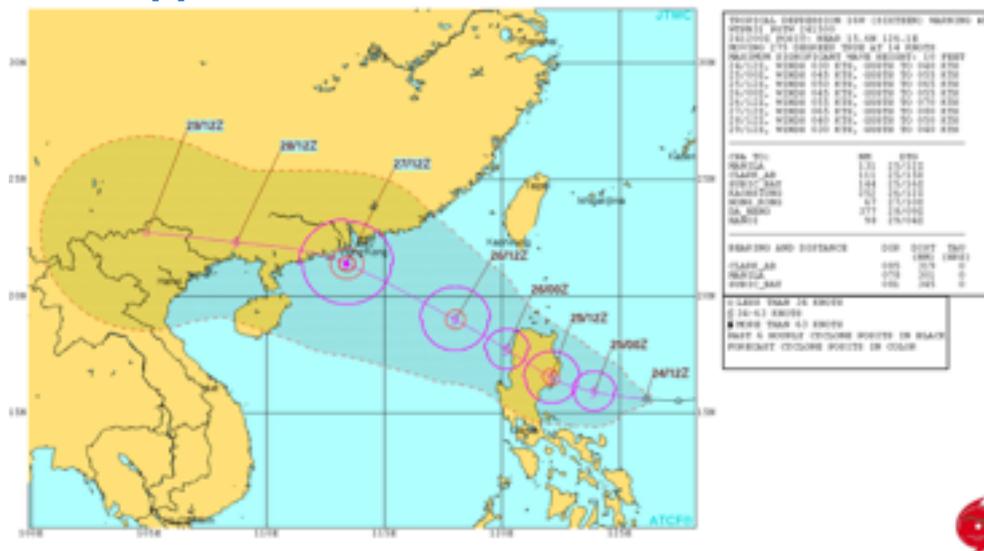


Fig. 2. Forecast track for TD 16 from JTWC [2]

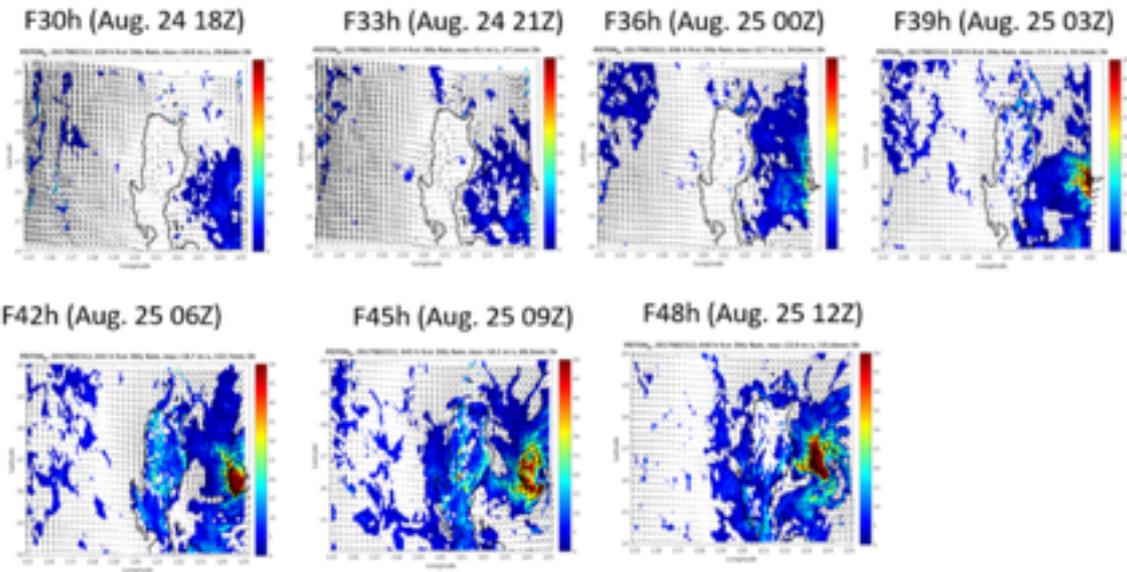


Fig. 3. Forecast precipitation over the next 48 hours from high-res COAMPS.