

Ten day Outlook for Belize

June 7 – June 17, 2015

Synopsis: Two tropical waves will cross Belize during the next ten-days. The first will reach the country this Wednesday morning, while the other tropical wave will approach the country on Friday. A low will evolved from the second tropical wave over Belize during Friday, and will then drift NNE over the weekend (See Figure 1 and Figure 2 below).

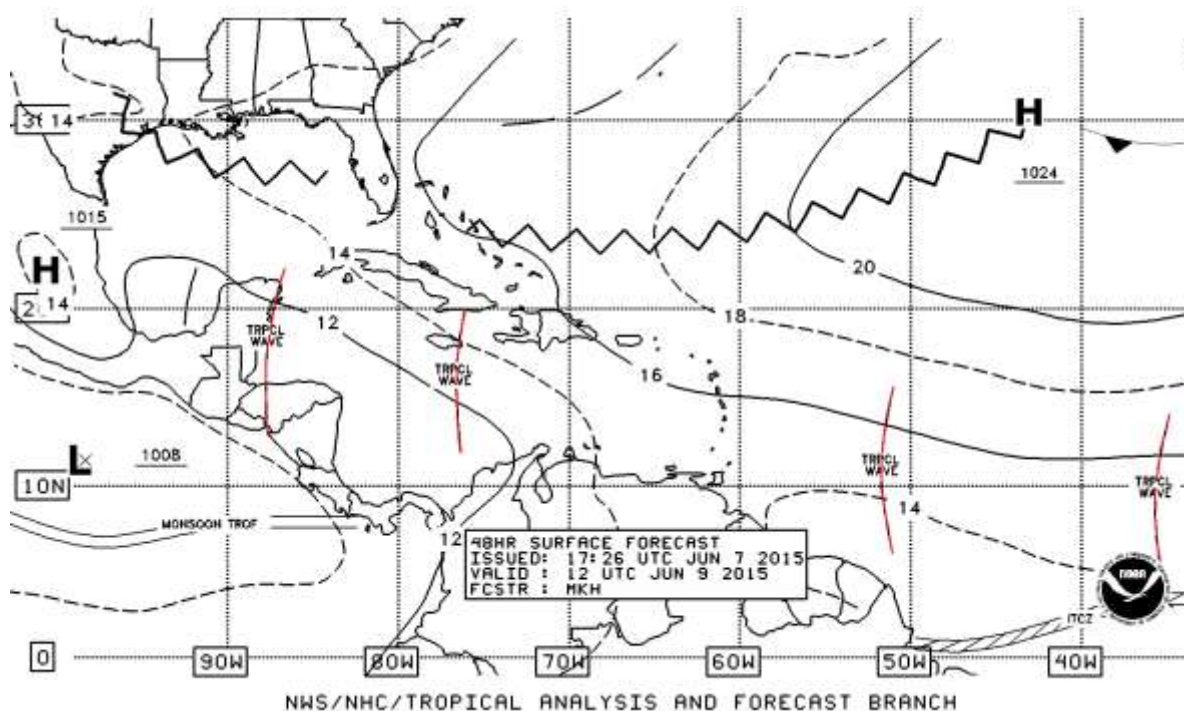


Figure 1: NHC 48hr forecast surface map Valid for 6: 00 am, Wednesday, June 9, showing TW moving into Belize and Yucatan

A short-wave upper level trough in the southern and eastern Gulf of Mexico will provide outflow for the convective activity associated with the first tropical wave crossing the country, then an upper level high over southern Mexico and the NW Caribbean will favor strong uplift and outflow for the convection associated with the approaching, second tropical wave late Thursday night and Friday of this week.

The GFS-MNSPRD global ensemble forecast model is resolving intense convective activity over coastal waters and the mainland of Belize and Yucatan this coming Thursday, Friday and early Saturday (See Figure 3 below). The GFS model is also resolving an 850 mb vorticity maximum traversing coastal waters of Belize and extending into the Bay of Campeche on Friday, in

association with the surface disturbance in the extreme NW Caribbean and Belize (See Figure 4 below).

Hence, expect increasing outbreaks of scattered showers and thunderstorms later on Monday through Wednesday, increasing in intensity late Thursday night and Friday. The models are resolving 24-hr rainfall rates in the range of 0.25 – 1.00 inch on Tuesday through Wednesday, especially over central areas and the coast, with local rates of near 1.50 – 2.00 inches in the elevated terrain. Expect rainfall rates of 0.50 inch – 2.00 inches on Friday through Saturday, with locally higher rates of 2.5 – 3.00 inches in hilly terrain. Farmers and folks in the hilly terrain of the Stann Creek, Cayo, and Toledo districts should remain vigilant for high probability of locally developing flash-flood conditions.

Weather conditions will continue seasonally unsettled over the coming weekend through Wednesday of next week. Daily rainfall rates will be in the range of 0.25 – 1.00 inch, especially over coastal districts and the hilly areas of central Belize. Soil moisture will be near field capacity by the end of the second rainfall event early next week.

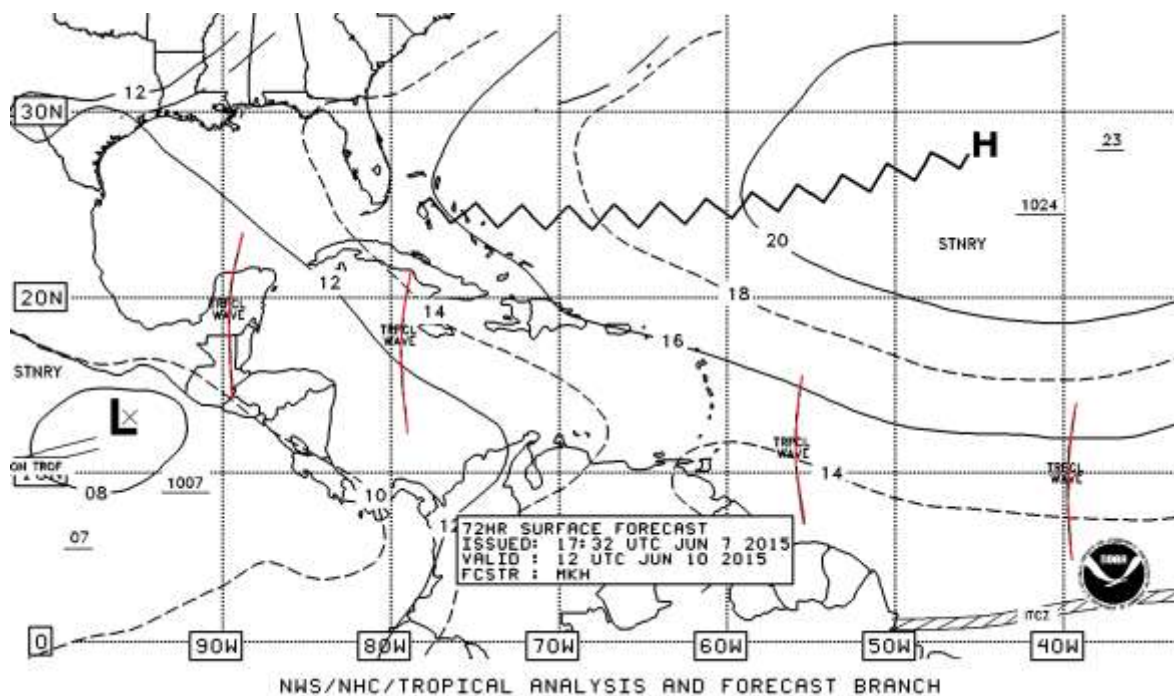


Figure 2: NHC 72-hr forecast surface map valid for 6:00 am, Thursday, June 10, showing a second TW west of Jamaica, reaching Belize by Friday evening.

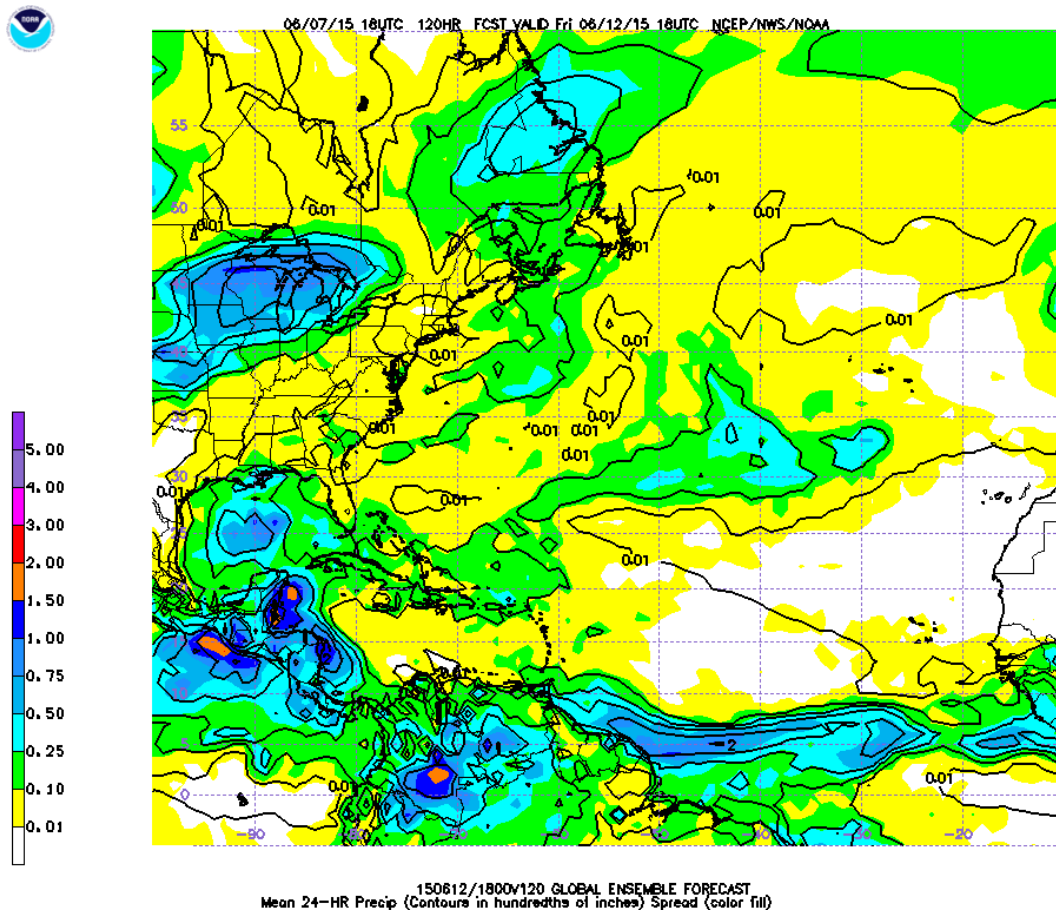


Figure 3: GFS-MNSRPD model 120-hour rainfall forecast map for mid-day Friday, June 12, 2015, showing 24-hr rainfall rates of 1.00 inch to 2.00 inches over central and coastal areas of Belize, generated by a disturbance (low) over Belize, which is forecast to drift NNE.

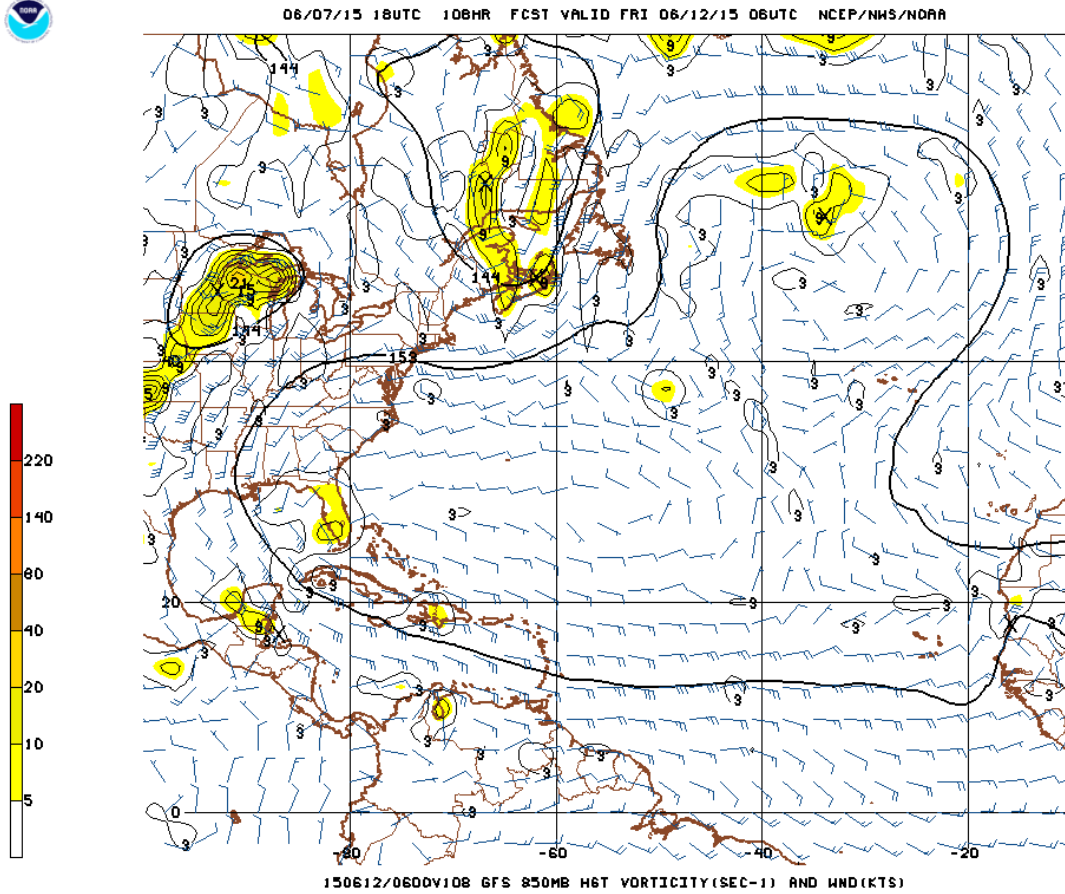


Figure 4: GFS model 5,000 ft (850 mb) wind and vorticity map for 108-hour (Friday, June 12, 12:00 am or mid-night, 0600 UTC), showing vorticity maximum from the Gulf of Honduras to the Bay of Campeche, favoring intense convection in the area.

NHC Tropical Weather Outlook



Tropical Cyclone Formation Potential for the 5-Day Period Ending 8:00 pm EDT Fri Jun 12 2015

Chance of Cyclone Formation in 5 Days: ■ Low < 40% ■ Medium 40-60% ■ High > 60%

X indicates current disturbance location; shading indicates potential formation area.

R. Frutos
Sunday, June 7, 2015
