



**THE NATIONAL WEATHER SERVICE**

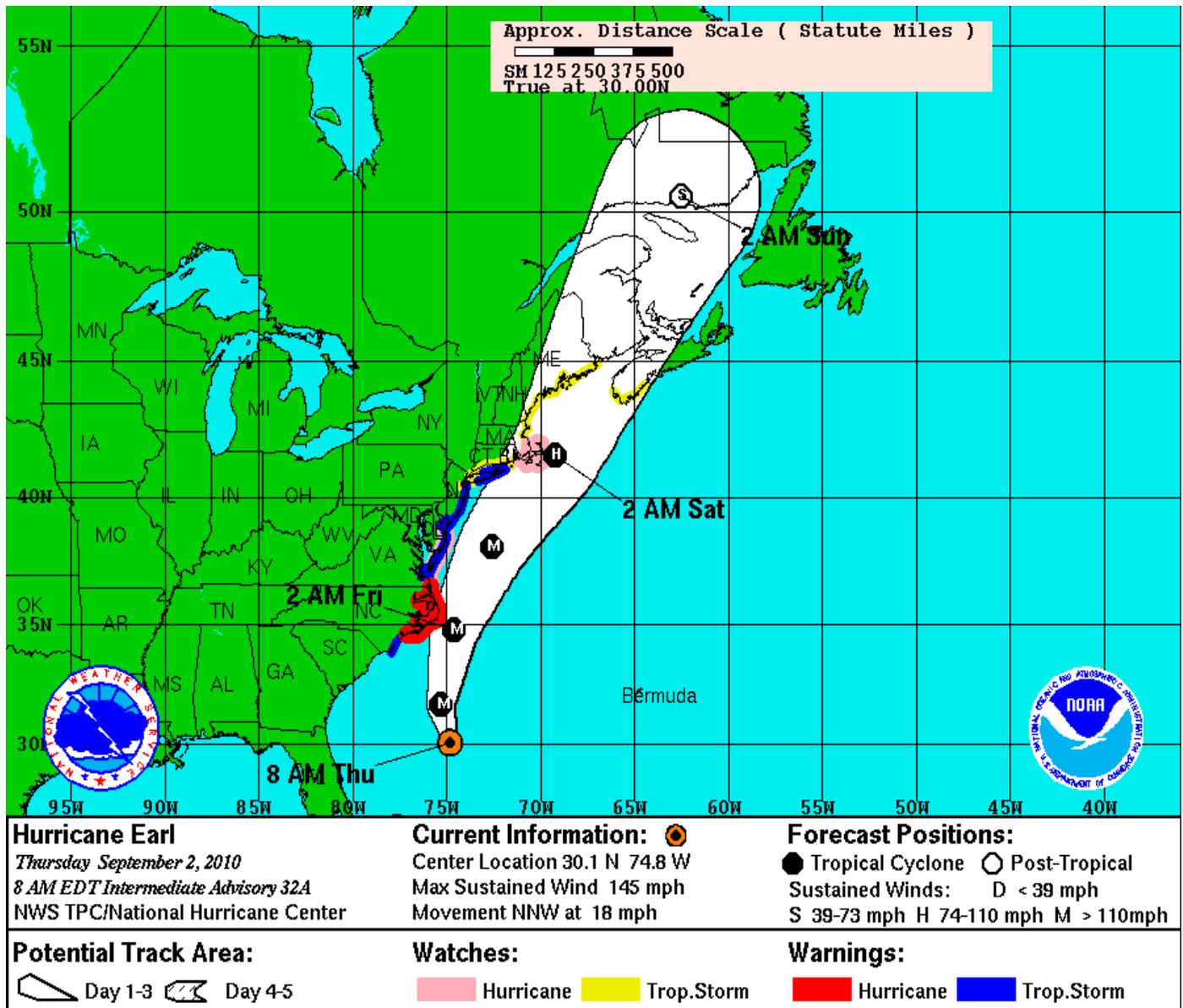
**PHILADELPHIA/Mt. HOLLY**



# TROPICAL BRIEFING

**[WWW.WEATHER.GOV/PHI](http://WWW.WEATHER.GOV/PHI)**

8 AM Thursday Briefing package for the NWS Mount Holly, NJ service area.



Maximum sustained winds associated with Hurricane Earl have increased to around 145 MPH as of 5 AM, which means Earl is still Category 4 storm. A gradual weakening is expected to begin later today. As shown on the map above, Earl is expected to still be a major hurricane (Cat 3 or higher) as it passes by the Delaware coast (as indicated by the "M" in the black circle).

Hurricane Earl is expected to make its closest approach to the Delaware coast early Friday afternoon (approximately 150 miles east of Fenwick Island), and to the northern New Jersey coast late Friday afternoon or early Friday evening (190 miles east of Sandy Hook).

Tropical Storm Warnings remain in effect from the NC/VA border north to Sandy Hook NJ, including lower Delaware Bay. In addition, a Hurricane Watch remains in effect from the NC/VA border north to Cape Henlopen DE.

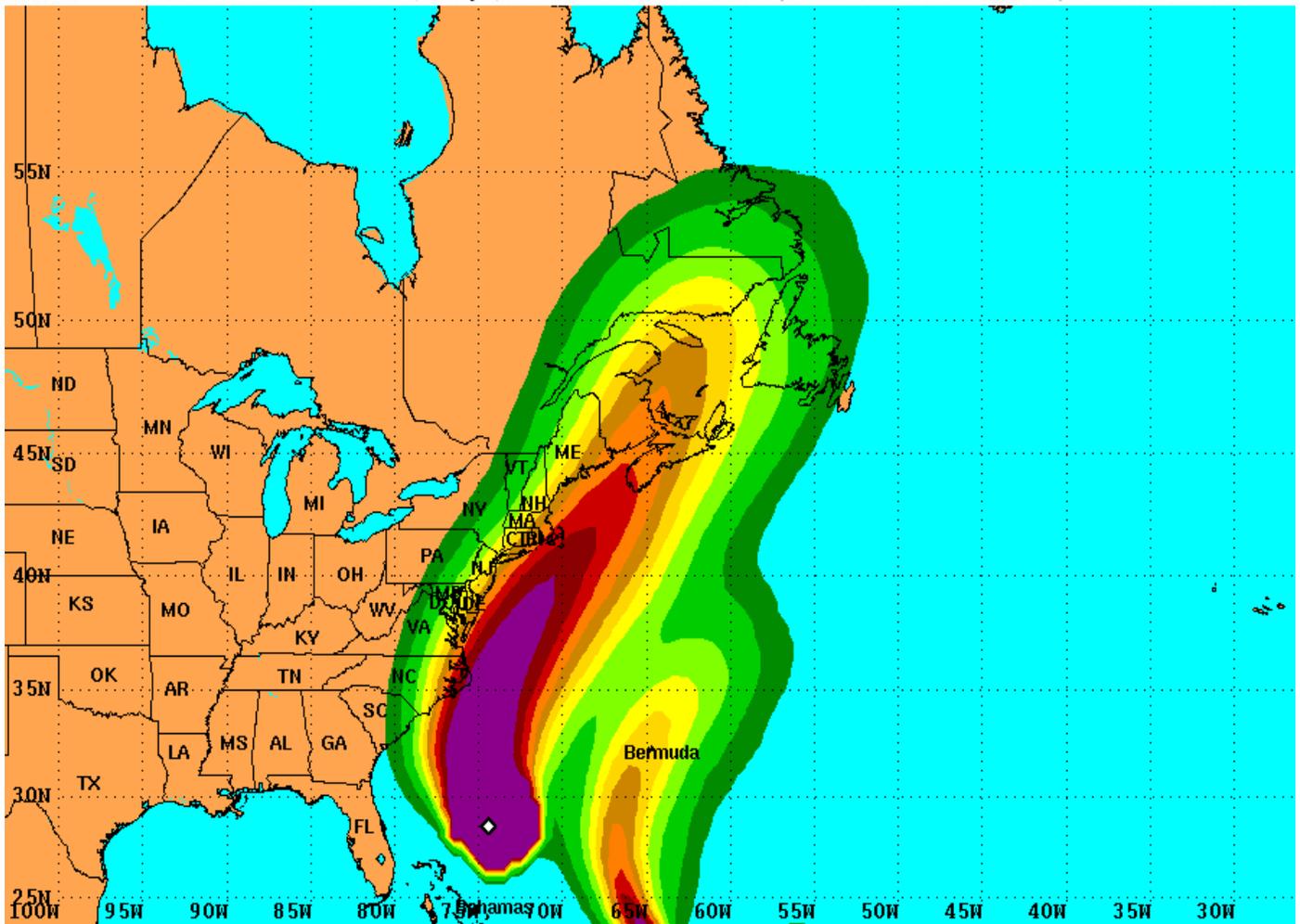
While the forecast cone from the National Hurricane Center has shifted slightly eastward from yesterday's position, please remember that the center of the hurricane could track anywhere within this cone, even on the edges.

Page2



## Tropical Storm Force Wind Speed Probabilities

For the 120 hours (5 days) from 2 AM EDT Thu Sep 2 to 2 AM EDT Tue Sep 7



Probability of tropical storm force surface winds (1-minute average  $\geq 39$  mph) from all tropical cyclones

◇ indicates HURRICANE EARL center location at 2 AM EDT Thu Sep 2 2010 (Forecast/Advisory #32)

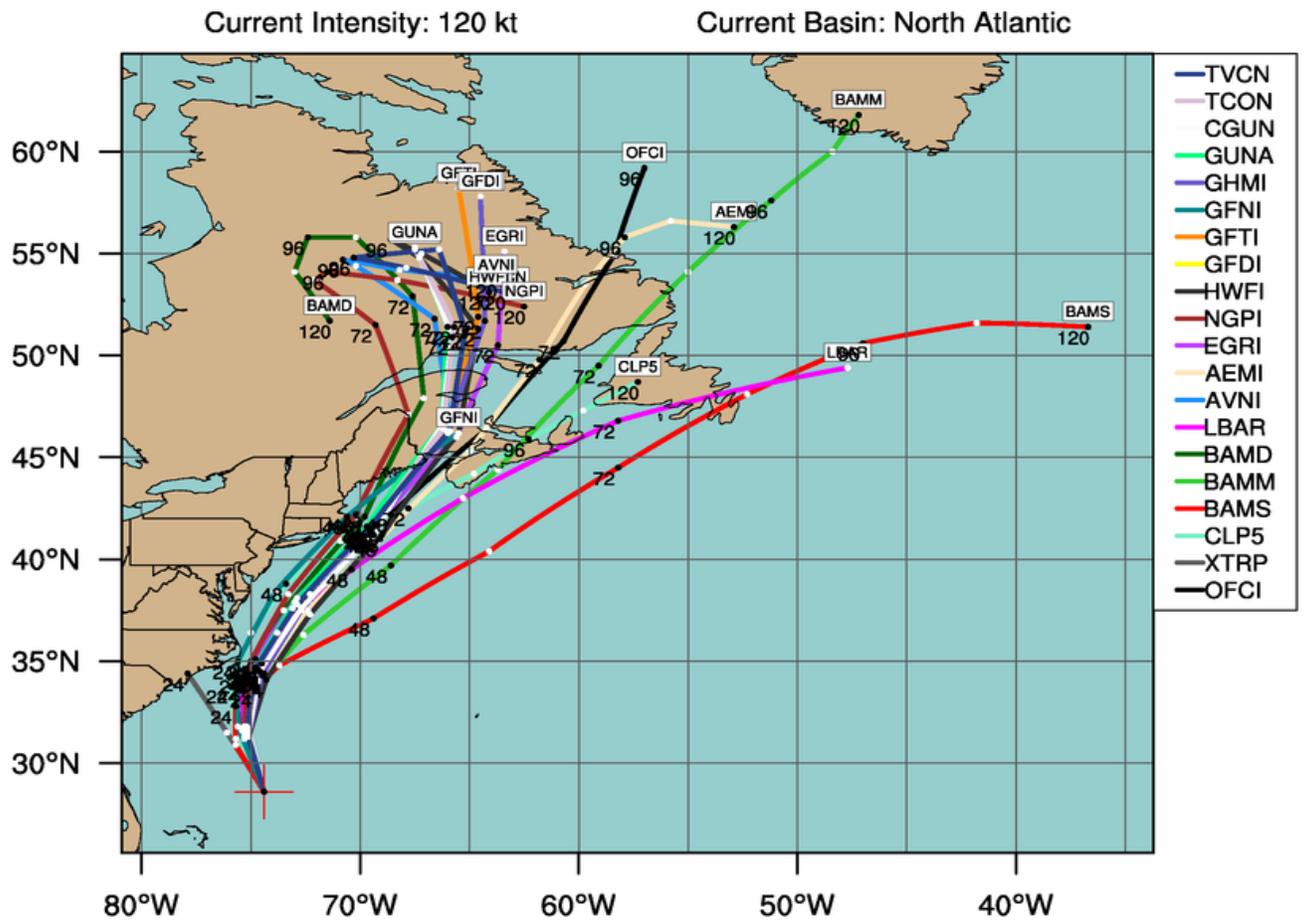


Probability of tropical storm force winds ( $\geq 39$  mph) 60 to 70 percent along the Delmarva and New Jersey coasts.

Page3

# MAJOR HURRICANE EARL (AL07)

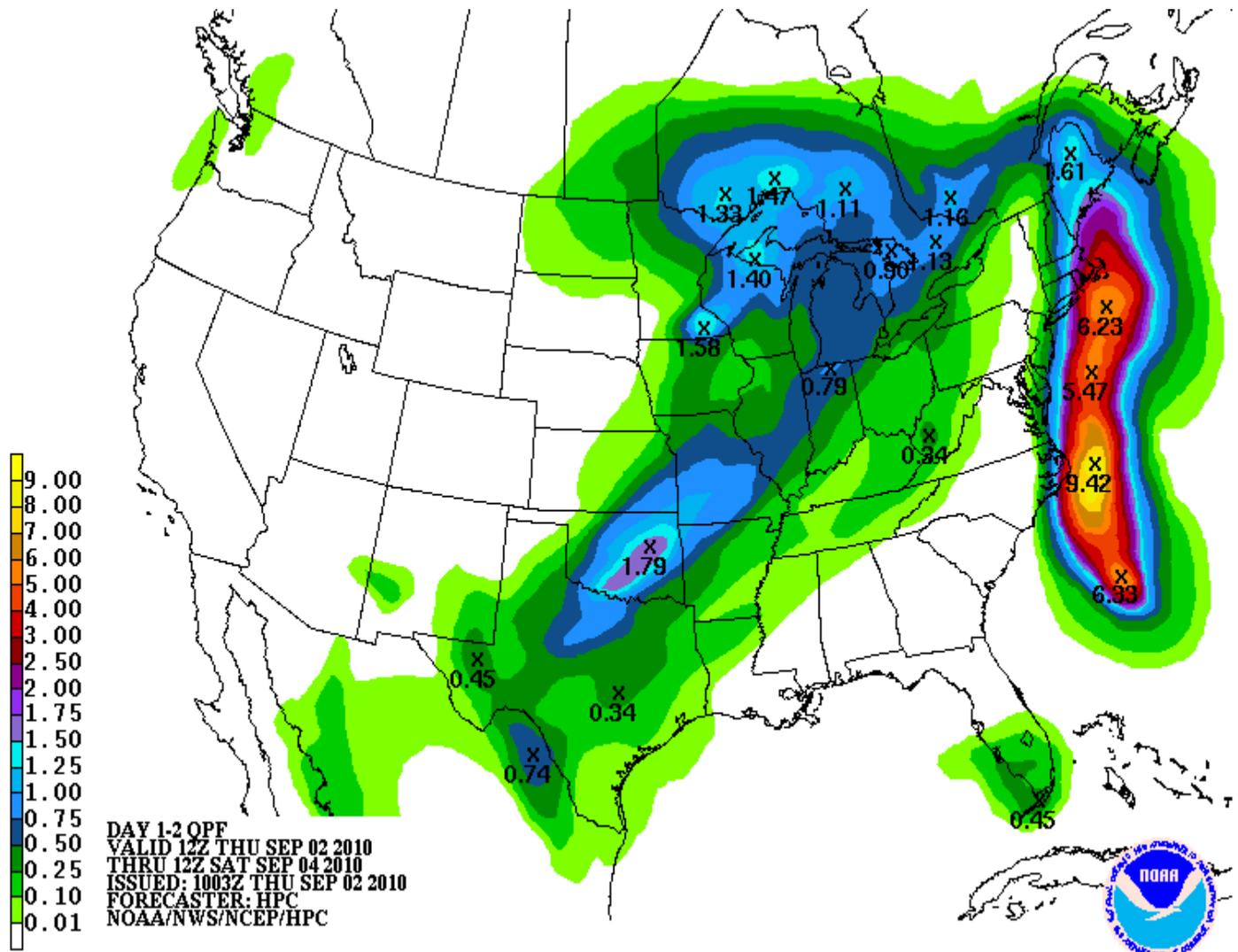
Early-cycle track guidance valid 0600 UTC, 02 September 2010



This plot does not display official storm information. Use for information purposes only.  
DO NOT USE FOR LIFE AND DEATH DECISIONS!

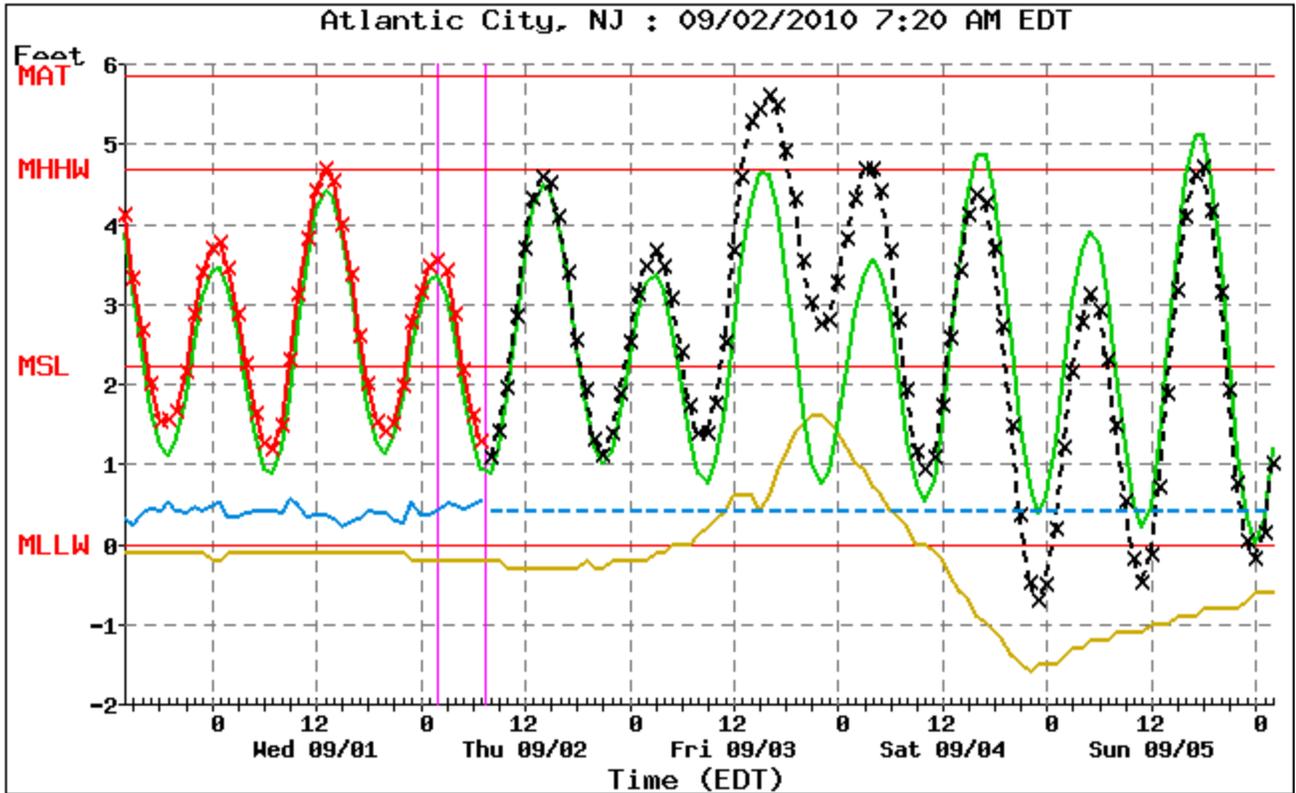
Model consensus indicates Hurricane Earl will curve northeast after passing the outerbanks of North Carolina.

However, continue to monitor forecasts in case of sudden shift toward the west.



Total rain expected between 8 AM Thursday and 8 AM Saturday. One to two inches are possible along the immediate coast, with less than one-half inch expected further inland.

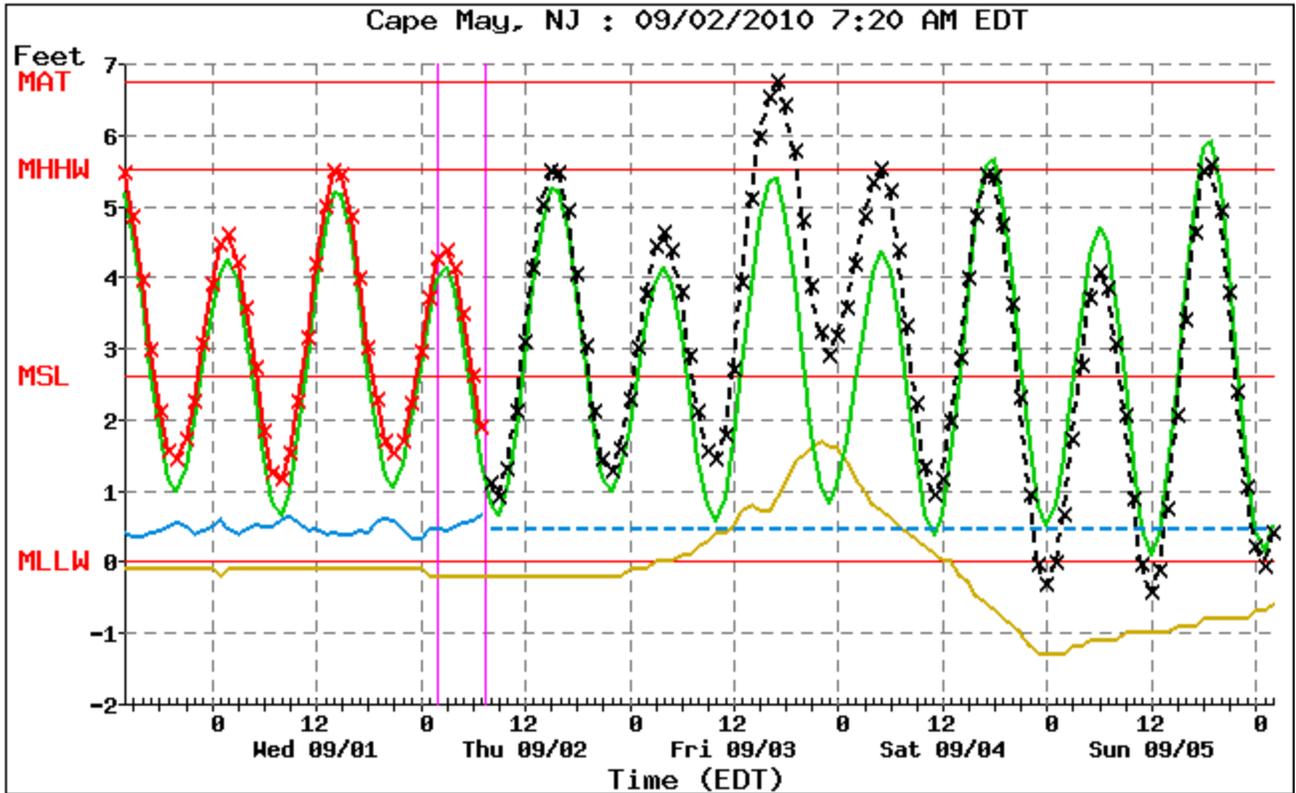
Surge Tide Observation Forecast Anomaly=(Obs.-(Tide+Surge))



Minor tidal flooding still possible in Atlantic City on Friday, especially Friday afternoon.

Green line indicates astronomical tide and black dashed line indicates forecast tide level with storm effect. Note: Minor flooding begins at 6 feet in Atlantic City.

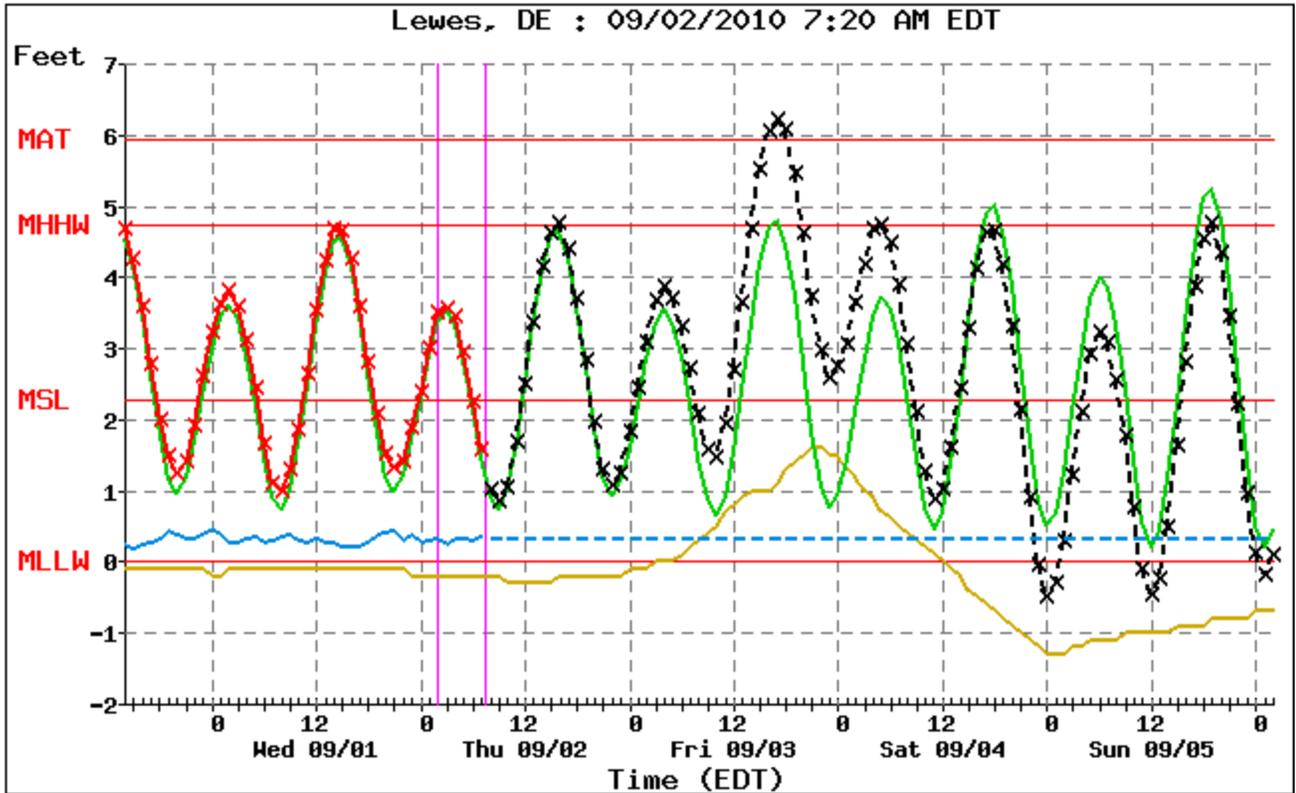
Surge Tide Observation Forecast Anomaly=(Obs.-(Tide+Surge))



Minor tidal flooding possible in Cape May on Friday, especially Friday afternoon. Green line indicates astronomical tide.

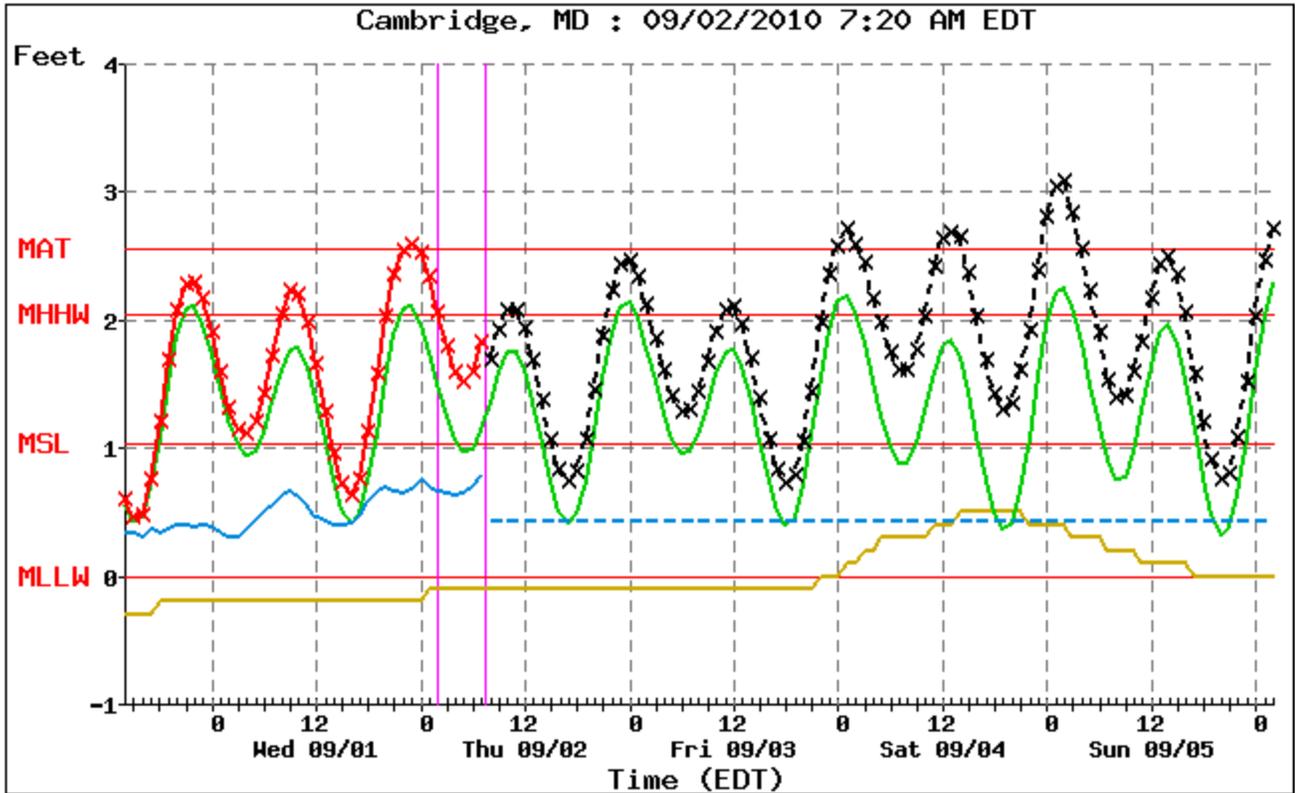
Black dashed line indicates forecast tide level with storm effect. This does not account for wave action. Note: minor tidal flooding in Cape May begins at 6.7 feet.

Surge Tide Observation Forecast Anomaly=(Obs.-(Tide+Surge))



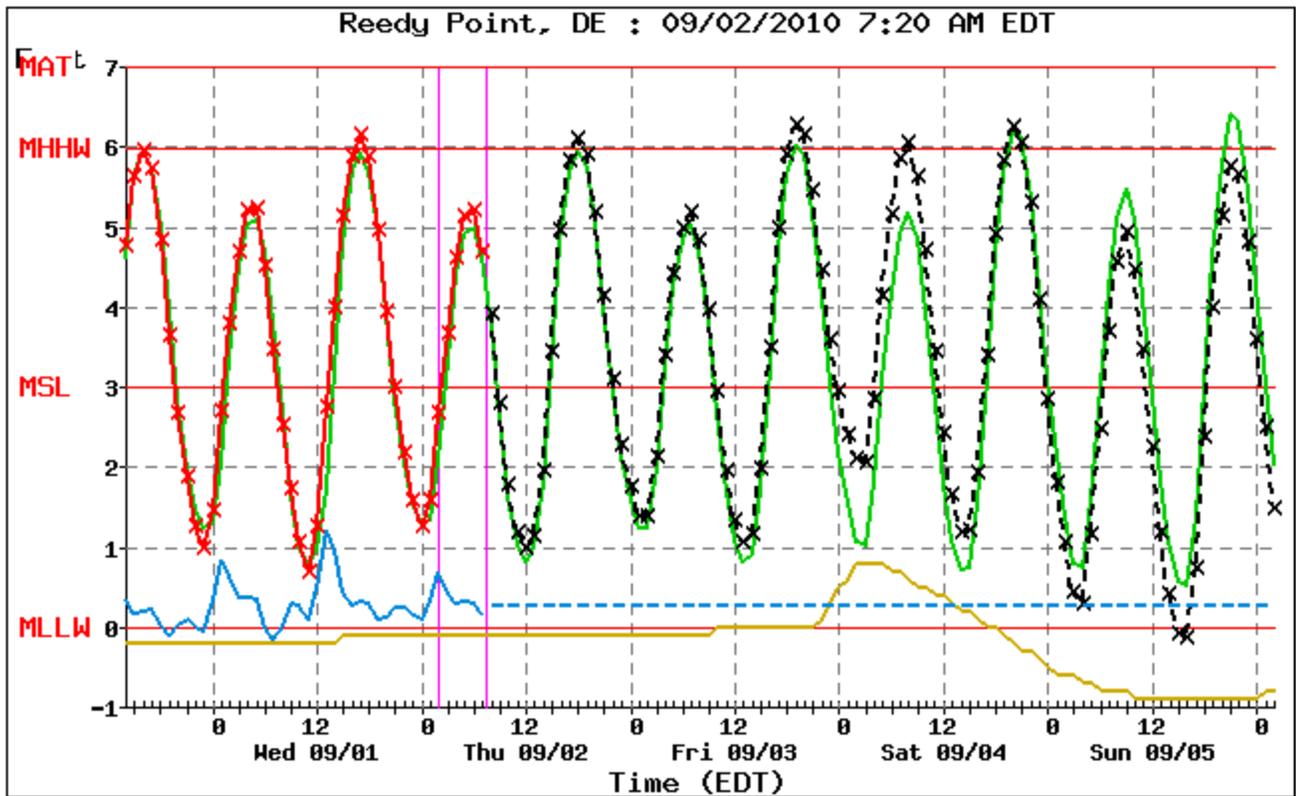
Minor tidal flooding possible in Lewes on Friday, especially Friday afternoon. Green line indicates astronomical tides. Black dashed line indicates forecast tide levels with storm effect. Note: Minor tidal flooding begins at 6 feet in Lewes.

Surge Tide Observation Forecast Anomaly=(Obs.-(Tide+Surge))

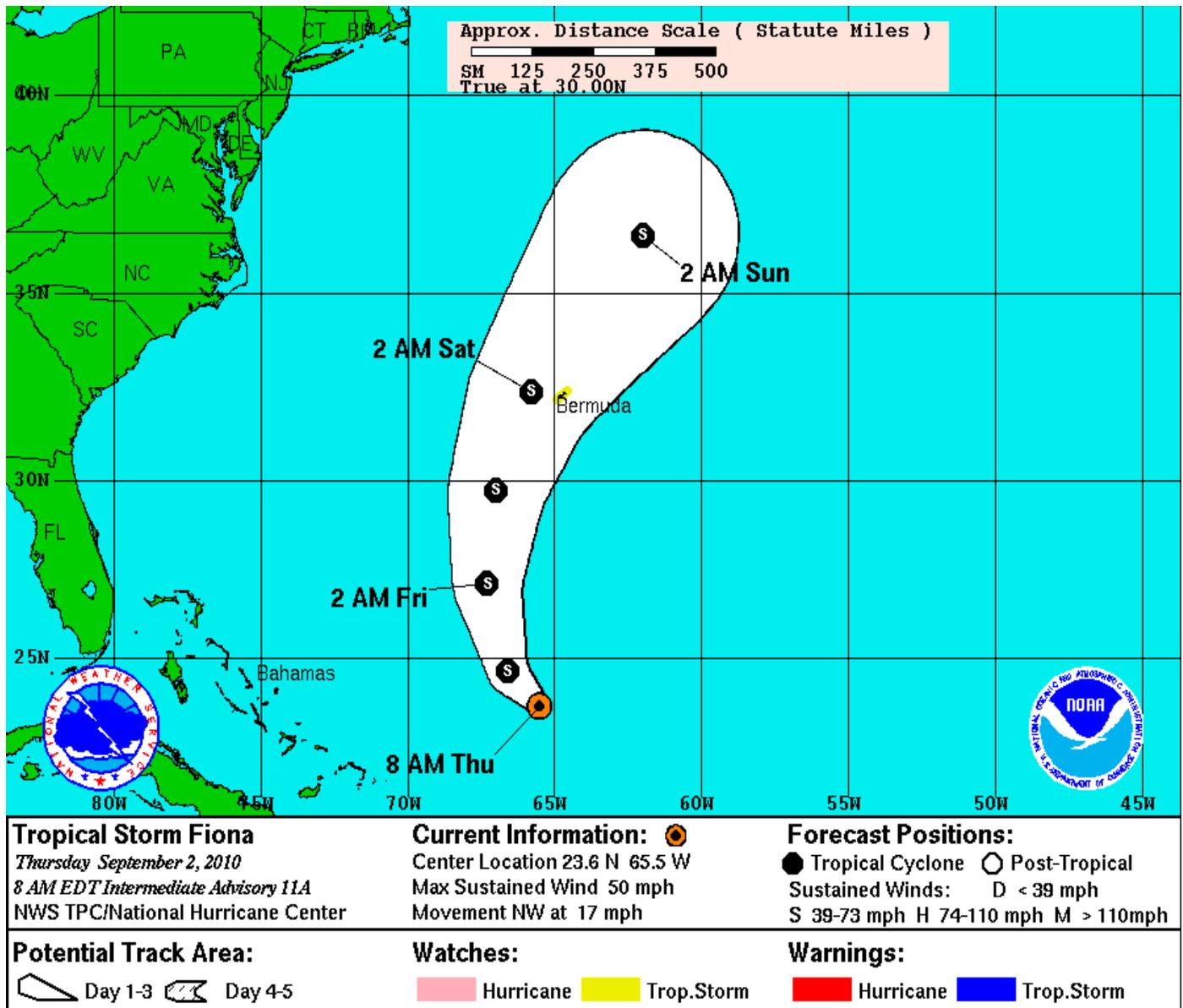


This model does not indicate tidal flooding in Cambridge on Friday (minor flooding occurs in the 3.5 to 4.5 foot range). However, forecasters believe minor tidal flooding is still possible in the middle and lower portions of the Chesapeake Bay given the buildup of water over the Ocean.

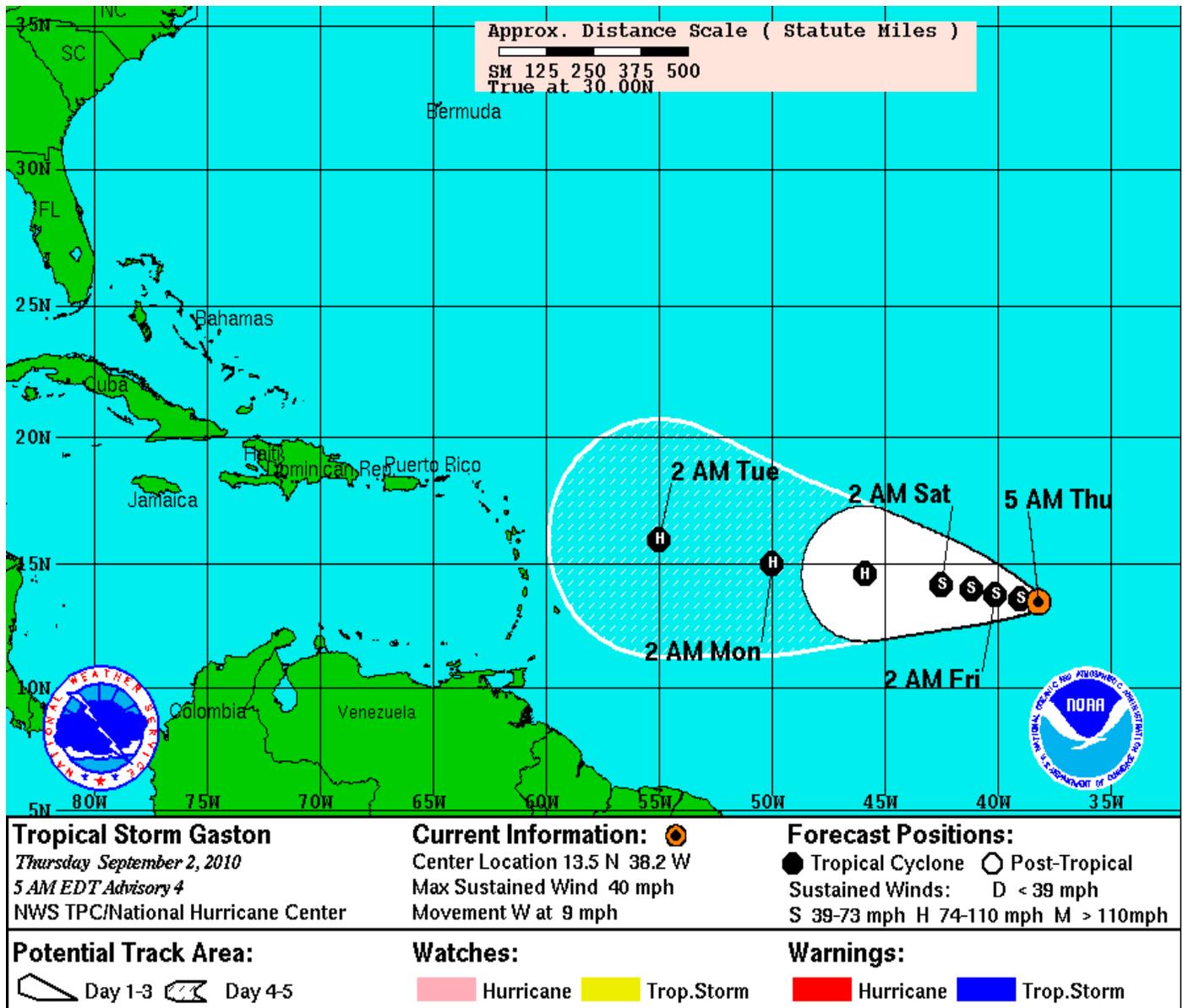
Surge Tide Observation Forecast Anomaly=(Obs.-(Tide+Surge))



No tidal flooding expected in the middle and upper portions of the Delaware Bay. Green line indicates astronomical tide. Black dashed line indicates forecast tides Note: Minor tidal flooding begins at 7.2 feet at Reedy Point.



Tropical Storm Fiona is not expected to intensify into a Hurricane. It is also expected to curve NE on Saturday, so its impact on the mid-Atlantic region should be minimal.



Tropical Storm Gaston has formed! We'll keep an eye on that system next week!

**Tropical Storm Warnings now in effect for the**

**entire Delmarva and New Jersey Coast, and the lower Delaware Bay. In addition, a Hurricane Watch remains in effect from the NC/VA border north to Cape Henlopen DE.**

**Current forecasts bring Earl to within 150 miles of Fenwick Island late Friday morning or early Friday afternoon, and within 170 miles of Atlantic City Friday afternoon. This represents a slight westward shift of the track from previous forecasts.**

**Still some uncertainty with Earl's path. Any further movement to the west will worsen his impact.**

**Sustained winds in the 40 mph range are possible along the Delaware and New Jersey coasts, with higher gusts.**

**Expect higher winds over the ocean waters.**

**Winds will pick up late Thursday and continue through a good part of Friday.**

**Rough surf and rip currents can be expected with this system. These conditions will continue into**

**the first part of the weekend as Earl moves away from the area.**

**10 to 20 foot seas can be expected away from the coast, with 5 to 10 feet possible near the coast.**

**Highest seas expected late Thursday through Friday.**

**Given the current forecast track, minor tidal flooding is possible along the entire Delaware and New Jersey coastline.**

**Minor tidal flooding also possible in the lower Delaware Bay. Minor tidal flooding less likely in the middle and northern**

**portions of the Delaware Bay. Minor tidal flooding is also possible in the lower and middle portions of the Chesapeake Bay, but**

**less likely near the neck of the Bay in Cecil and Kent counties. Minor flooding is also possible along the southern shore of the**

**Raritan Bay in northern New Jersey. A storm surge of 1 to 2 feet is possible with this system.**

**Heaviest rain expected near the coast...with less**

**rain inland. One to two inches of rain is expected near the coast, with less than 0.50 inches further inland. Rain will begin late Thursday night, ending early Friday afternoon in Delaware and ending Friday evening in northern New Jersey.**

**Although the water may be a little rough, especially on Saturday, the weekend weather at the beach is expected to be beautiful!**