

**NOAA Ship Ronald H. Brown A16N Leg 2 Scientific Report 02**  
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Monday, September 9, 2013

We are currently at Station 90 (approximately 21N 28.5W), having completed 20 of the ~ 80 stations planned for Leg 2. We have been making good progress overall, with only a few small delays due to hydro winch adjustments. The quality of the preliminary data sets looks very good.

We have been following the development of a tropical depression to the southeast of us for the past week. Unfortunately, this system has continued to develop and is now classified as Tropical Storm Humberto (see attached figure). Our current position (Sept 9, Monday 11:00 EDT) is indicated by a small square on the figure.

The intensification of this system and projected pathway are unusual for this region.

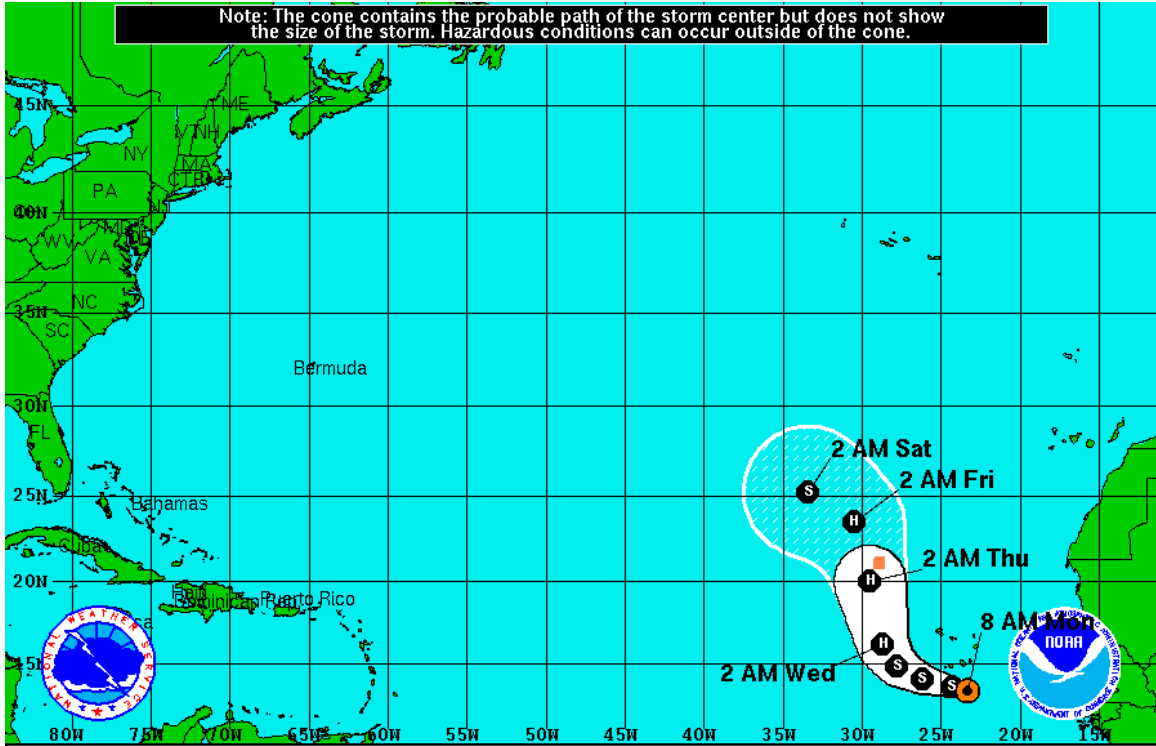
Current forecasts call for this system to continue to intensify and move northward for the next several days. This projected pathway will put the system almost directly along our southward cruise track line (29W) in the next few days.

A good source of info is at the National Hurricane Center's website:  
<http://www.nhc.noaa.gov/>

We are currently not directly being affected by this system and are experiencing normal NE trade winds of about 15 kts. We plan to continue moving southward and occupy the next CTD station later this evening. At that time, the Captain and officers of RHB will evaluate the situation with new forecast information and make a decision on how to proceed. One possibility is that the ship will need to break off the line at some point and steam eastward to avoid the projected pathway of Humberto. In this case, we would return to the break-off point after the storm has passed, with a likely loss of at least a few days.

We will send updates when new information becomes available.

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



**Tropical Storm Humberto**

Monday September 9, 2013  
 8 AM EDT Intermediate Advisory 3A  
 NWS National Hurricane Center

**Current Information:** ●  
 Center Location 13.4 N 23.3 W  
 Max Sustained Wind 40 mph  
 Movement W at 12 mph

**Forecast Positions:**  
 ● Tropical Cyclone ○ Post-Tropical  
 Sustained Winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110mph

**Potential Track Area:**

Day 1-3 Day 4-5

**Watches:**

Hurricane Trop.Storm

**Warnings:**

Hurricane Trop.Storm