

SPECIAL EVENT SUMMARY – HURRICANES DANIELLE AND EARL – INVEST 97L

August 30, 2010 – 10:05 a.m. Hawaii Time / 4:05 p.m. EDT

The Caribbean Sea, and the Atlantic Ocean remain active with tropical cyclones. *Hurricane Danielle* is getting into cooler water to the north, remaining over the open ocean, and about ready to transition into a strong mid-latitude low pressure system. Meanwhile, very strong *Hurricane Earl* will soon get even stronger, becoming an unusual category 4 major hurricane, perhaps just shy of the top category 5 classification! Finally, soon to be tropical cyclone 08L will begin its entry into this bevy of tropical cyclones soon, as tropical storm (Fioni), 1,000 or so miles to the east of the Leeward Islands on Monday.

Danielle – Long lasting hurricane Danielle, is about ready to drop back down into a tropical storm, and soon thereafter lose all of its tropical characteristics, referred to as going extra-tropical. This system will join forces with a mid-latitude storm system, with its associated cold front. It remains over the open ocean, which is a good thing as it continues its journey northeast. It appears that Iceland may get some wind and rain/snow as this system veers back to the northwest later this week. Considering how strong Danielle was, it is fortunate that it missed Bermuda, and remained over the open ocean throughout its long lasting career.

Here is the latest [NHC graphical track map](#)

Here is the NHC experimental gridded forecasts for [wind](#), [wave height](#), and [swell](#)

The [computer models](#) are showing this in relation to hurricane Danielle...provided by Weather Underground.

Here is a [satellite picture](#) of this tropical cyclone...which is in the process of losing most of its thunderstorm activity

Here's a [looping satellite image](#) of this area.

This is the [storm history](#) of Danielle

Earl – Category 3 hurricane Earl will be finding additional warm water ahead of it, and hardly any wind shear above it...both of which suggest it becoming even stronger. This very dangerous storm is moving close enough to the Caribbean Islands, to prompt the NHC to issue hurricane watch Puerto Rico, with a hurricane warnings for Saint Martin and Saint Barthelemy; St. Maarten, Saba; and St. Eustatius; British Virgin Islands; U.S. Virgin Islands; and the Puerto Rican Islands of Culebra and Vieques. Tropical storm warnings for Anguilla and Puerto Rico, and a tropical storm watch for the

Turks and Caicos Islands.

The one positive thing about the close proximity of this major hurricane, is that its most dangerous quadrant, with the strongest winds, will remain over the ocean just to the east of these islands. Winds will definitely be a major issue, as will the copious precipitation that is associated with this large tropical cyclone. As this storm churns by, just to the east of the other Caribbean islands, it will be able to tap into the very warm ocean water for energy. The NHC track map keeps it from impacting the North Carolina coast directly, although there will be very serious high surf issues, along with beach erosion nonetheless. Winds could be a serious issue, along with potentially flooding rainfall. It wouldn't take much of a nudge to the west to make a very forceful impact on the east coast of the United States!

Here is the latest [NHC graphical track map](#)

Here is the NHC experimental gridded forecasts for [wind](#), [wave height](#), and [swell](#)

The [computer models](#) are showing this in relation to hurricane Earl...provided by Weather Underground.

Here is a [satellite picture](#) of this tropical cyclone...with a clearly defined eyewall

Here's a [looping satellite image](#) of this area.

This is the [storm history](#) of Earl...thus far.

Invest 97L – This area of disturbed weather, which came off the African coast last week, is looking very much like a tropical depression, if not a tropical storm. The NHC is giving this tropical disturbance a very high 90% chance of developing into a tropical cyclone later today or almost certainly by Tuesday. This is a fast moving system, moving towards the west at near 20 mph. As expected, this storm, once it forms, will do its best to catch up with hurricane Earl. The closer that [what will become Fiona] this system gets to Earl, the better...in terms of keeping it away from the Caribbean Islands, and causing its demise. If this system slows down, it would have a better chance of not interacting with Earl, and in turn could reach the Caribbean Islands—time will tell.

Here's a [satellite image](#) of Invest 97L

Here are what the [computer models](#) are doing with 97L...provided by Florida State University

Here's the [Ensemble tracks](#) provided by Weather Underground

It should be noted that this summary is a *snap shot* at the current time noted above, and circumstances are likely to change with time.

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