



ALERT No. 5 Hurricane Sandy

OCTOBER 25, 2012

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ART'S EMERGENCY CENTER REPORT

The **AmericasRelief Team's** emergency center has not been activated; the center is staffed to help coordinate the shipping of relief aid to victims of the event. However, we anticipate that air relief flights, ocean relief space and co-loading opportunities will develop. We will notify our colleagues, friends and partners of space-available opportunities as this emergency develops.

HURRICANE SANDY

Earlier this morning...Sandy made landfall just west of Santiago de Cuba as a strong category two hurricane. Cuban radar data and reports from an Air Force Reserve reconnaissance aircraft indicated that Sandy had a well-defined 20-24 N mi diameter eye when it made landfall. The aircraft reported maximum 700-mb flight-level winds of 117 kt and bias-corrected SFMR surface estimates of 91-92 kt. A blend of these data yields a surface wind estimate of 99 kt...Just below major hurricane status. The main reason why Sandy was held just below major hurricane status was due to the sustained 68-kt wind and gust to 99 kt that occurred around 0517z. However... stronger winds may have occurred later when the southeastern portion of the eye wall moved onshore...which is the quadrant where the 117-kt flight-level wind was observed. The initial intensity of 90 kt is based on wind decay models for hurricanes over land. The initial motion is 005/16 kt. After a slight jog to the north-northeast very early this morning...Sandy appears to have resumed a northward motion...and this general motion is expected to continue for the next 24 hours or so. After that...a deep-layer trough over the northern U.S. And a similar deep-layer trough over the North Atlantic east of Newfoundland are forecast to amplify... which will induce mid-level ridging near the northeast U.S. Coast between those two systems. That ridge is expected to cause Sandy to slow down and turn toward the north-northwest in 24-36 hours. After that...the ridge to the north of Sandy is forecast to weaken as an approaching deep mid-latitude trough moves over the eastern half of the United States by 72 hours and begins to accelerate Sandy to the northeast. The NHC model guidance is in excellent agreement on this developing scenario. After that...however...the guidance diverges significantly with the ECMWF...GFDL...and NOGAPS taking Sandy northwestward and inland over the Delmarva Peninsula by 120 hours...whereas the GFS model keeps Sandy moving northeastward away from the U.S. And over the open North Atlantic. The remainder of the model guidance is somewhere in between these two extremes. Given the historical reliability of the very consistent ECMWF model over the past 2 days...the official forecast was turned slightly more toward the northwest at 120 hours...and is close to a blend of the consensus models tv15 and tvcn...and the FSU track model. Owing to the



higher current intensity of Sandy...the new intensity forecast is also higher than the previous forecast through 36 hours...and then is similar to the previous advisory intensity forecast as increasing shear begins to affect the cyclone. The main forecast challenge is determining just how much baroclinic influence the deep trough over the eastern U.S. will have on Sandy...and also what the vertical structure of Sandy will be after 48 hours. All of the global models maintain significant rainfall amounts in excess of 2 inches near the center through 120 hours... which suggests that Sandy will maintain some convection and possibly an inner-core warm structure that would keep some tropical characteristics associated with the system. The new intensity forecast is similar to the Igem and decay-SHIPS intensity models. The forecast will still call for Sandy to become Post-tropical by 120 hours...although this remains low confidence.

FAST, EASY SHIPPING WITH OUR RELIEF CALCULATOR

Through **AmericasRelief Team's** new Freight Calculator, we are able to offer hassle free shipping with immediate quotes and preferential pricing. Please visit our [website](#) to learn more.



FREE PREPOSITIONING & STAGING WAREHOUSE

While we hope that this hurricane season will prove to be less active than predicted, we all know that natural disasters will inevitably strike—suddenly and horrifically—somewhere in the region. Therefore **AmericasRelief Team** and corporate partner Laparkan, have arranged for the use of a prepositioning and staging warehouse at no cost to NGOs. Visit our [website](#) for details.

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HUMANITARIAN LOGISTICS TOOLS

ART provides leadership to NGOs by bringing together innovation, ideas and technology on humanitarian logistics. For more information on humanitarian logistics tools please visit our [logistics page](#). Here you can find our Logistics & Transportation Guide, our Logistics Help Request Form, and other valuable information.



MEDIA PARTNERS



We are proud of our media partnership; created to give South Floridians an opportunity to reach out and help those who have been directly affected by catastrophic events.



AmericasRelief Team is a Florida private sector collaboration of corporations and non-profit organizations created to help our friends in the Americas in times of crisis and disasters.

AmericasRelief Team reacts to immediate crisis, provides ongoing logistics assistance, and conducts plans for future events in the region which will require effective coordination of humanitarian relief.

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