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Hurricane SANDY

ZCZC M ATCPAT3 ALL
TTAA00 KNHC DDHMM

BULLETIN

HURRICANE SANDY INTERMEDIATE ADVISORY NUMBER 27A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL182012
200 AM EDT MON OCT 29 2012

... SANDY TURNING TOWARD THE NORTH... EXPECTED TO BRING
LIFE-THREATENING STORM SURGE... COASTAL HURRICANE WINDS AND HEAVY
APPALACHIAN SNOWS...

SUMMARY OF 200 AM EDT... 0600 UTC... INFORMATION

LOCATION... 35.2N 70.5W
ABOUT 280 M... 455 KM E OF CAPE HATTERAS NORTH CAROLINA
ABOUT 425 M... 685 KM SSE OF NEW YORK CITY
MAXIMUM SUSTAINED WINDS... 75 MPH... 120 KM/H
PRESENT MOVEMENT... N OR 10 DEGREES AT 14 MPH... 22 KM/H
MINIMUM CENTRAL PRESSURE... 950 MB... 28.05 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* NORTH OF SURF CITY TO DUCK NORTH CAROLINA
* PAULICO AND ALBEMARLE SOUNDS
* BERMUDA

IN ADDITION... HURRICANE-FORCE WINDS ARE EXPECTED ALONG PORTIONS OF
THE COAST BETWEEN CHINCOTEAGUE VIRGINIA AND CHATHAM MASSACHUSETTS.
THIS INCLUDES THE TIDAL POTOMAC FROM COBB ISLAND TO SMITH POINT...
THE MIDDLE AND UPPER CHESAPEAKE BAY... DELAWARE BAY... AND THE COASTS
OF THE NORTHERN DELMARVA PENINSULA... NEW JERSEY... THE NEW YORK CITY
AREA... LONG ISLAND... CONNECTICUT... AND RHODE ISLAND.

TROPICAL-STORM-FORCE WINDS ARE EXPECTED NORTH OF CHATHAM TO
MERRIMACK RIVER MASSACHUSETTS... THE LOWER CHESAPEAKE BAY... AND
SOUTH OF CHINCOTEAGUE TO DUCK NORTH CAROLINA... THE NORTHERN
ENDPOINT OF THE TROPICAL STORM WARNING

OTHER COASTAL AND INLAND WATCHES AND WARNINGS ARE IN EFFECT FOR
THESE AREAS. PLEASE SEE STATEMENTS FROM LOCAL NATIONAL WEATHER
SERVICE FORECAST OFFICES.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED
STATES... INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS... PLEASE
MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE
FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE
THE UNITED STATES... PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL
METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 200 AM EDT...0600 UTC...THE CENTER OF HURRICANE SANDY WAS LOCATED NEAR LATITUDE 35.2 NORTH...LONGITUDE 70.5 WEST. SANDY IS MOVING TOWARD THE NORTH NEAR 14 MPH...22 KM/H. A TURN TOWARD THE NORTHWEST IS EXPECTED TODAY...FOLLOWED BY A TURN TOWARD THE WEST-NORTHWEST TONIGHT. ON THE FORECAST TRACK...THE CENTER OF SANDY WILL MOVE OVER THE COAST OF THE M D-ATLANTIC STATES THIS EVENING OR TONIGHT.

MAXIMUM SUSTAINED WINDS ARE NEAR 75 MPH...120 KM/H...WITH HIGHER GUSTS. SANDY IS EXPECTED TO TRANSITION INTO A FRONTAL OR WINTER METEOROLOGICAL LOW PRESSURE SYSTEM PRIOR TO LANDFALL. HOWEVER...THIS TRANSITION WILL NOT BE ACCOMPANIED BY A WEAKENING OF THE SYSTEM...AND IN FACT...A LITTLE STRENGTHENING IS POSSIBLE DURING THIS PROCESS. SANDY IS EXPECTED TO WEAKEN AFTER MOVING INLAND.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 175 MILES...280 KM...MAINLY TO THE SOUTHWEST OF THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 520 MILES...835 KM. WEATHERFLOW STATIONS AT LEWES DELAWARE AND TUCKERTON NEW JERSEY REPORTED SUSTAINED WINDS OF 42 MPH AND GUSTS TO 52 MPH.

AN AIR FORCE HURRICANE HUNTER AIRCRAFT RECENTLY REPORTED A MINIMUM CENTRAL PRESSURE OF 950 MB...28.05 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS...OR GALE FORCE WINDS...ARE ALREADY OCCURRING OVER COASTAL NORTH CAROLINA...SOUTHEASTERN VIRGINIA...THE DELMARVA PENINSULA AND COASTAL NEW JERSEY. GALE FORCE WINDS ARE EXPECTED TO ARRIVE ALONG OTHER PORTIONS OF THE M D-ATLANTIC COAST...LONG ISLAND...AND SOUTHERN NEW ENGLAND...LATER THIS MORNING. WINDS OF HURRICANE FORCE COULD REACH THE M D-ATLANTIC STATES...INCLUDING LONG ISLAND...LATER TODAY. WINDS AFFECTING THE UPPER FLOORS OF HIGH-RISE BUILDINGS WILL BE SIGNIFICANTLY STRONGER THAN THOSE NEAR GROUND LEVEL.

STORM SURGE...THE COMBINATION OF AN EXTREMELY DANGEROUS STORM SURGE AND THE TIDE WILL CAUSE NORMALLY DRY AREAS NEAR THE COAST TO BE FLOODED BY RISING WATERS. THE WATER COULD REACH THE FOLLOWING DEPTHS ABOVE GROUND IF THE PEAK SURGE OCCURS AT THE TIME OF HIGH TIDE...

NC NORTH OF SURF CITY INCLUDING PAMLICO/ALBEMARLE SOUNDS...4 TO 6 FT
SE VA AND DELMARVA INCLUDING LOWER CHESAPEAKE BAY...2 TO 4 FT
UPPER AND MIDDLE CHESAPEAKE BAY...1 TO 3 FT
LONG ISLAND SOUND...RARIATAN BAY...AND NEW YORK HARBOR...6 TO 11 FT
ELSEWHERE FROM OCEAN CITY MD TO THE CT/RI BORDER...4 TO 8 FT
CT/RI BORDER TO THE SOUTH SHORE OF CAPE COD INCLUDING BUZZARDS BAY AND NARRAGANSETT BAY...3 TO 6 FT
CAPE COD TO THE MA/NH BORDER INCLUDING CAPE COD BAY...2 TO 4 FT
MA/NH BORDER TO THE U. S. / CANADA BORDER...1 TO 3 FT

SURGE-RELATED FLOODING DEPENDS ON THE RELATIVE TIMING OF THE SURGE AND THE TIDAL CYCLE...AND CAN VARY GREATLY OVER SHORT DISTANCES. GIVEN THE LARGE WIND FIELD ASSOCIATED WITH SANDY...ELEVATED WATER LEVELS COULD SPAN MULTIPLE TIDE CYCLES RESULTING IN REPEATED AND EXTENDED PERIODS OF COASTAL AND BAYSIDE FLOODING. IN ADDITION...ELEVATED WATERS COULD OCCUR FAR REMOVED FROM THE CENTER OF SANDY. FURTHERMORE...THESE CONDITIONS WILL OCCUR REGARDLESS OF WHETHER SANDY IS A TROPICAL OR POST-TROPICAL CYCLONE. FOR INFORMATION SPECIFIC TO YOUR AREA...PLEASE SEE PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE.

RAINFALL...RAINFALL TOTALS OF 3 TO 6 INCHES ARE EXPECTED OVER FAR NORTHEASTERN NORTH CAROLINA WITH ISOLATED MAXIMUM TOTALS OF 8 INCHES POSSIBLE. RAINFALL AMOUNTS OF 4 TO 8 INCHES ARE EXPECTED OVER PORTIONS OF THE M D-ATLANTIC STATES...INCLUDING THE DELMARVA PENINSULA...WITH ISOLATED MAXIMUM AMOUNTS OF 12 INCHES POSSIBLE. RAINFALL AMOUNTS OF 1 TO 3 INCHES WITH ISOLATED MAXIMUM AMOUNTS OF 5 INCHES ARE POSSIBLE FROM THE SOUTHERN TIER OF NEW YORK STATE NORTHEASTWARD THROUGH NEW ENGLAND.

SNOWFALL...SNOW ACCUMULATIONS OF 2 TO 3 FEET ARE EXPECTED IN THE MOUNTAINS OF WEST VIRGINIA...WITH LOCALLY HIGHER TOTALS TONIGHT THROUGH TUESDAY NIGHT. SNOWFALL OF 1 TO 2 FEET IS EXPECTED IN THE MOUNTAINS OF SOUTHWESTERN VIRGINIA TO THE KENTUCKY BORDER...

WITH 12 TO 18 INCHES OF SNOW POSSIBLE IN THE MOUNTAINS NEAR THE
NORTH CAROLINA/TENNESSEE BORDER AND IN THE MOUNTAINS OF WESTERN
MARYLAND.

SURF... DANGEROUS SURF CONDITIONS WILL CONTINUE FROM FLORIDA THROUGH
NEW ENGLAND FOR THE NEXT COUPLE OF DAYS.

NEXT ADVISORY

NEXT COMPLETE ADVISORY... 500 AM EDT.

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FORECASTER PASCH/ CANGI ALOSI

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Post-Tropical Cyclone SANDY

ZCZC M ATCDAT3 ALL
TTAA00 KNHC DDHMM

POST-TROPICAL CYCLONE SANDY DISCUSSION NUMBER 31
NWS NATIONAL HURRICANE CENTER MIAMI FL AL182012
1100 PM EDT MON OCT 29 2012

SATELLITE...RADAR...SURFACE...AND RECONNAISSANCE AIRCRAFT DATA INDICATE THAT SANDY MADE LANDFALL NEAR ATLANTIC CITY NEW JERSEY AROUND 0000 UTC. THE INTENSITY OF THE POST-TROPICAL CYCLONE WAS ESTIMATED TO BE NEAR 80 KT AT LANDFALL WITH A MINIMUM PRESSURE OF 946 MB. AT LANDFALL...THE STRONGEST WINDS WERE OCCURRING OVER WATER TO THE EAST AND SOUTHEAST OF THE CENTER. HURRICANE-FORCE WINDS GUSTS HAVE BEEN REPORTED ACROSS LONG ISLAND AND THE NEW YORK METROPOLITAN AREA THIS EVENING. IN ADDITION...A SIGNIFICANT STORM SURGE HAS OCCURRED ALONG A LONG STRETCH OF THE MID-ATLANTIC AND SOUTHERN NEW ENGLAND COAST.

ALTHOUGH THE CYCLONE SHOULD STEADILY WEAKEN AS IT MOVES FURTHER INLAND...CONDITIONS WILL BE SLOW TO IMPROVE AS STRONG WINDS AND ELEVATED WATER LEVELS WILL PERSIST ALONG THE COAST FOR ANOTHER DAY OR SO. HEAVY RAINS ARE ALSO EXPECTED TO CONTINUE OVER A LARGE AREA OF THE NORTHEASTERN UNITED STATES...POSING A VERY SIGNIFICANT INLAND FLOOD RISK. SANDY TOOK A NORTHWARD JOG BEFORE LANDFALL THIS EVENING AND HAS ALSO SLOWED DOWN. THE POST-TROPICAL CYCLONE IS EXPECTED TO SLOW DOWN FURTHER AND TURN NORTHWARD...THEN NORTHEASTWARD OVER THE NEXT COUPLE OF DAYS. THE NHC TRACK IS SIMILAR TO THE PREVIOUS ADVISORY AND IS A BLEND OF THE ECMWF AND GFS MODELS.

NOW THAT SANDY IS A POST-TROPICAL CYCLONE...THE NEXT PUBLIC ADVISORY WILL BE ISSUED BY THE HYDROMETEOROLOGICAL PREDICTION CENTER...HPC...AT 500 AM EDT TUESDAY. THE PUBLIC ADVISORY WILL BE ISSUED UNDER THE SAME VMO AND AWPS HEADERS AS THE NHC PUBLIC ADVISORIES...AND WILL ALSO BE AVAILABLE VIA THE NHC WEBSITE. HIGH WIND WARNINGS ISSUED BY THE LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICES REMAIN IN EFFECT FOR A LARGE PORTION OF THE MID-ATLANTIC AND NORTHEASTERN UNITED STATES.

THANKS GO OUT TO THE CREWS OF THE AIR FORCE RESERVE AND NOAA HURRICANE HUNTERS FOR PROVIDING CRITICAL MEASUREMENTS IN AND AROUND SANDY DURING THE LAST SEVEN DAYS. THE NATIONAL HURRICANE CENTER WOULD ALSO LIKE TO THANK THE LOCAL WEATHER SERVICE OFFICES ACROSS THE COUNTRY THAT HAVE CONDUCTED SPECIAL RADIOSONDE RELEASES AS SANDY APPROACHED THE COAST.

FORECAST POSITIONS AND MAX WINDS

INIT	30/0300Z	39.8N	75.4W	65 KT	75 MPH	POST-TROP/EXTRATROP
12H	30/1200Z	40.5N	77.2W	55 KT	65 MPH	POST-TROP/EXTRATROP
24H	31/0000Z	41.3N	78.3W	40 KT	45 MPH	POST-TROP/EXTRATROP
36H	31/1200Z	42.6N	77.9W	30 KT	35 MPH	POST-TROP/EXTRATROP
48H	01/0000Z	44.0N	76.9W	25 KT	30 MPH	POST-TROP/EXTRATROP
72H	02/0000Z	46.5N	74.5W	25 KT	30 MPH	POST-TROP/EXTRATROP
96H	03/0000Z	48.5N	70.5W	25 KT	30 MPH	POST-TROP/EXTRATROP
120H	04/0000Z	...	ABSORBED			

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Hurricane SANDY

ZCZC MATCDAT3 ALL
 TTAA00 KNHC DDHMM CCB

HURRICANE SANDY DISCUSSION NUMBER 30... CORRECTED
 NWS NATIONAL HURRICANE CENTER MAM FL AL182012
 500 PM EDT MON OCT 29 2012

THE CONVECTIVE STRUCTURE OF SANDY HAS DEGRADED TODAY... EVEN AS THE CENTRAL PRESSURE HAS CONTINUED TO SLOWLY FALL... SUGGESTING THAT THE CONVECTION IS NO LONGER DRIVING THE BUS. THE INTENSIFICATION OBSERVED THIS MORNING WAS ASSOCIATED WITH STRONG WINDS OCCURRING TO THE SOUTHWEST OF THE CENTER... OUTSIDE OF THE CENTRAL CORE... AND WAS ALMOST CERTAINLY DUE TO BAROCLINIC FORCING. IN ADDITION... AIRCRAFT DATA INDICATE THAT THERE ARE STRONG TEMPERATURE CONTRASTS VERY NEAR A MODEST RESIDUAL WARM CORE. WATER VAPOR IMAGERY INDICATES THAT SANDY IS BECOMING ABSORBED WITHIN A LARGE MID-LATITUDE CYCLONIC CIRCULATION. ALL OF THESE CONSIDERATIONS LEAD US TO CONCLUDE THAT THE MOST APPROPRIATE CLASSIFICATION AT ADVISORY TIME IS EXTRATROPICAL. HOWEVER... FOR CONTINUITY OF SERVICE NHC WILL CONTINUE TO ISSUE ADVISORIES THROUGH LANDFALL. A POST-STORM ANALYSIS WILL RE-EXAMINE THE TIMING OF EXTRATROPICAL TRANSITION.

WE ANTICIPATE THAT THE LAST NHC ADVISORY ON SANDY WILL BE ISSUED AT 11 PM EDT TONIGHT. SINCE ALL COASTAL TROPICAL CYCLONE WARNINGS HAVE BEEN DISCONTINUED... THERE WILL BE NO INTERMEDIATE PUBLIC ADVISORIES ISSUED BETWEEN NOW AND THE 11 PM NHC ADVISORY. TO PROVIDE A CONTINUOUS FLOW OF INFORMATION... NHC WILL ISSUE TROPICAL CYCLONE UPDATES AT 7 PM AND 9 PM EDT... AND AT THE TIME OF LANDFALL. THESE UPDATES ARE ISSUED UNDER WMO HEADER WTNT63... AND AWIPS HEADER TCJT3... AND WILL ALSO BE AVAILABLE ON THE NHC WEBSITE. BEGINNING AT 5 AM EDT TUESDAY... PUBLIC ADVISORIES WILL BE ISSUED BY THE HYDROMETEOROLOGICAL PREDICTION CENTER... HPC... UNDER THE SAME WMO AND AWIPS HEADERS AS THE NHC PUBLIC ADVISORIES... WHICH WILL ALSO BE AVAILABLE VIA THE NHC WEBSITE.

THERE HAS BEEN NO SIGNIFICANT CHANGE TO THE POST-LANDFALL TRACK OR INTENSITY FORECAST. DESPITE THE RAPID FORWARD MOTION TODAY... SANDY IS EXPECTED TO STALL INLAND TOMORROW. THIS... COUPLED WITH THE VERY LARGE SIZE OF THE SYSTEM... WILL MEAN THAT CONDITIONS WILL BE SLOW TO IMPROVE IN THE AFFECTED AREAS. STRONG WINDS WILL PERSIST ALONG THE COAST AND SPREAD FARTHER INLAND THROUGH AT LEAST TUESDAY. OF PARTICULAR CONCERN ARE THE UPPER FLOORS OF HIGH-RISE BUILDINGS... AS RECONNAISSANCE DATA INDICATE THAT WINDS JUST A FEW HUNDRED FEET IN ALTITUDE ARE VERY MUCH STRONGER THAN THOSE NEAR THE SURFACE. EVEN AS SANDY WEAKENS... HEAVY RAINS WILL PERSIST OVER A LARGE AREA... POSING A VERY SIGNIFICANT INLAND FLOOD RISK.

TO AVOID A HIGHLY DISRUPTIVE CHANGE FROM TROPICAL TO NON-TROPICAL WARNINGS AS SANDY BECOMES POST-TROPICAL... THE WIND AND OTHER HAZARDS WILL CONTINUE TO BE CONVEYED THROUGH HIGH WIND WARNINGS ISSUED BY LOCAL NATIONAL WEATHER SERVICE OFFICES.

FORECAST POSITIONS AND MAX WINDS

INIT	29/2100Z	38.8N	74.4W	80 KT	90 MPH	
12H	30/0600Z	39.8N	76.6W	65 KT	75 MPH	POST-TROP/EXTRATROP
24H	30/1800Z	40.4N	78.3W	50 KT	60 MPH	POST-TROP/EXTRATROP
36H	31/0600Z	41.3N	78.2W	40 KT	45 MPH	POST-TROP/EXTRATROP
48H	31/1800Z	42.8N	77.5W	30 KT	35 MPH	POST-TROP/EXTRATROP
72H	01/1800Z	45.1N	75.5W	30 KT	35 MPH	POST-TROP/EXTRATROP
96H	02/1800Z	46.3N	72.2W	25 KT	30 MPH	POST-TROP/EXTRATROP
120H	03/1800Z	47.5N	65.5W	20 KT	25 MPH	POST-TROP/EXTRATROP