

***NATIONAL WEATHER SERVICE EASTERN REGION SUPPLEMENT 02-2007***

***APPLICABLE TO NWSI 10-517***

***August 25, 2010***

***Operations and Services***

***Public Weather Services, NWSPD 10-5***

***Multi-Purpose Weather Products Specification, NWSI 10-517***

***HAZARDOUS WEATHER OUTLOOK, SPECIAL WEATHER STATEMENT, AND  
SHORT TERM FORECAST***

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**NOTICE:** This publication is available at: <http://www.nws.noaa.gov/directives/>.

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**Certified by:** W/ER1 (J. Guiney)

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***SUMMARY OF REVISIONS:*** This Supplement supersedes NWS Directive 10-517 Multi-Purpose Weather Products Specification dated March 21 2007.

1. Changed HWO so headlines are optional not mandatory.
2. Removed section 2.4 titled GHWO. Currently a national team is working on deliverables.
3. Allow Special Weather Statements to be issued through the first period or out 12 hours.
4. Included policy on polygons for select Special Weather Statements
5. Deleted the 'High impact – High resolution information' section as material is covered in other areas.
6. Added section 3.4 'Creation Software' for Special Weather Statements
7. Added verbiage in section 4.1 to further clarify the purpose when a Nowcast is needed.
8. Removed the multiple hazard section (old section 5.1.3), similar examples are covered in our parts of section 5.
9. Added examples in section 5 which provide guidance on issuing an HWO without a headline.

<signed> Mickey Brown for Chris Strager

8/4/10

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Christopher S. Strager  
Director, NWS Eastern Region

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1. **Introduction.** National Weather Service (NWS) field offices provide hazardous weather outlook and short-term forecast services to a variety of users. Previously issued guidance permitted hazardous weather information to be included in Hazardous Weather Outlooks (HWO) and Special Weather Statements (SPS) in the longer term; and in HWO, SPS, and Short Term Forecast (NOW) products in the near term. The duplicate information contained in the three products caused confusion for users and needless workload among NWS forecasters and customers. This Supplement provides standardized instructions for issuing Hazardous Weather Outlooks, Special Weather Statements, and Short Term Forecasts.

ERS 03-2006, “WFO/RFC/HPC Hydrometeorology Coordination,” provides information on effective hydrometeorological coordination between the National Center for Environmental Prediction - Hydrometeorological Prediction Center (HPC), and NWS Eastern Region (ER) River Forecast Centers (RFCs) and Weather Forecast Offices (WFOs).

Written instructions cannot address every operational situation. All personnel must exercise initiative and professional judgment to minimize risk to public safety and property in situations not explicitly covered by written instructions.

2. **Hazardous Weather Outlook (product category HWO).**

- 2.1 **Purpose.** The HWO is designed to alert customers to expected hazardous weather and its potential impact out to Day 7. Insertion of headlines is optional and segmentation of the HWO should be based on the hazards not headlines. Therefore, if a watch/warning/advisory is in effect, the HWO does not have to be updated.
- 2.2 **Content.** The HWO will be used to convey hazardous weather, hydrologic, and non-precipitation information expected out to Day 7. NWS ER WFOs will issue an HWO daily between 5 a.m. and 7 a.m. local time. HWOs will be updated to reflect changes in hazardous weather, or meet customer needs.

As consistent with national policy, headline inclusion in the HWO is optional. If offices elect to insert headlines, the HWO will **not** include the following headlines:

- Tornado Warning (TOR)
- Severe Thunderstorm Warning (SVR)
- Special Marine Warning (SMW)
- Flash Flood Warning (FFW)
- Flood Warning – Areal and River Forecast Point (FLW)
- Flood Advisory – All types (FLS)

If a watch, warning, or advisory is headlined in the HWO, then a “reference statement” will be included in the appropriate section advising customers to check other text products for additional information. The HWO will not duplicate information contained in other watch, warning, or advisory text products.

For example, the Day One section will include the following “reference statement” for a Winter Storm Warning effective during Day One in the Charleston, WV area:

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WINTER STORM WARNING

For persistent river flooding or large-scale areal flooding that is a threat to life or is forecast to increase significantly, ER WFOs will briefly mention the flood hazard in the HWO and advise customers to check the WFO home page or Advanced Hydrologic Prediction Service (AHPS) for more information.

The HWO will be used exclusively to convey information for flood potential that exists beyond the time period covered by a Flood Watch or Flash Flood Watch.

ER WFOs will include severe weather outlook information in the HWO whenever they decide that a risk of severe convective weather (tornadoes, strong wind, large hail, localized flash flooding, etc.) will exist anywhere within their County Warning Area. Use of National Center for Environmental Prediction - Storm Prediction Center (SPC) guidance products, local forecast techniques, and coordination with the SPC and adjacent offices are all encouraged as part of the WFO decision-making process.

Marine hazards that do not affect the adjacent land areas, such as Small Craft Advisories, may be omitted from the HWO based upon local customer needs. These hazards are nearly daily occurrences in some areas and the HWO is often not disseminated offshore. Land-based hazards such as high surf and coastal flooding that do affect the coast will be included in the HWO.

- 2.2.1 Hazard Not Expected. ER WFOs will use one of the two phrases in NWSI 10-517, section 4.3.3.e, when no hazards are forecast in either the “Day One” period or the “Days Two through Seven” period:

“NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME” or  
“THE PROBABILITY FOR WIDESPREAD HAZARDOUS WEATHER IS LOW”

HWOs will not contain these phrases when hazards are forecast. In addition, HWOs will not contain additional text describing nonhazardous weather when one of these phrases is used.

A negative statement for each individual hazard in either the “Day One” or the “Days Two through Seven” periods is not necessary and could detract from important hazards information. For example, “No severe thunderstorms are forecast. Heavy rain may cause flooding.” The first sentence may deter users from reading the second sentence and the customer may miss the important information about heavy rain.

- 2.2.2 Spotter Information Statement. When weather hazards are discussed in either the “Day One” or “Days Two through Seven” periods in the HWO, ER WFOs will include a spotter information statement following the “Days Two through Seven” section.

The spotter information statement is not required when both time sections state that no hazards are expected. In this case, ER WFOs may use the phrase “SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME”.

- 2.3 Dissemination. The HWO will be accessible via WFO internet pages, similar to other watch, warning, and advisory products. It should be broadcast on NOAA Weather Radio All Hazards (NWR). NWR messages generated from the HWO may be modified prior to broadcast to eliminate “reference statements” and redundancy with other NWR messages.

### **3. Special Weather Statement (product category SPS).**

- 3.1 Purpose. The SPS is designed to alert customers to a short term hazardous weather threat, occurring through the first period or within 12 hours of the product issuance, which may require a heightened level of awareness or action.
- 3.2 Background. Storm-based (SB) warnings were implemented nationally in 2008 and are essential to effectively warn for severe weather and flash floods. SB warnings show the specific hydro-meteorological threat area and are not restricted to county boundaries. By focusing on the true threat area, polygons help improve NWS warning accuracy
- 3.3 Policy. All ER WFOs should include latitude / longitude information in SPS’s where areal specificity can be attained from remote sensing platforms, such as radar, lightning detection, or satellite systems. Examples include, but are not limited to:

- Heavy snow bands during a winter storm event
- Lake-effect snow bands that briefly reduce visibility
- Heavy rainfall that is not expected to cause flooding
- Thunderstorm winds of 40\* to 57 miles per hour (sustained or in gusts)
- Hail less than one inch in diameter
- Frequent to continuous lightning
- Funnel clouds or cold air funnels
- Dense Valley Fog

\*A lower value may be used at forecaster discretion

SPSs for phenomena that can’t be observed by remote sensing and have indefinite geographic specificity (e.g. black ice, patchy dense valley fog, urban heat, temperatures not meeting frost advisory or freeze warning thresholds) do not need latitude / longitude polygons.

- 3.4 Other Information. ER WFOs may use the SPS in accordance with written agreements between the NWS and other government agencies (MOAs, MOUs, etc.).
- 3.5 Dissemination. The SPS will be accessible via WFO internet pages, similar to other watch, warning, and advisory products. It should also be broadcast on NOAA Weather Radio All Hazards (NWR).
- 3.6 Creation Software: WFOs should use Warngen to issue SPS that contain latitude / longitude. GFE or other software can be used to create SPS that do not contain latitude / longitude.

#### **4. Short Term Forecast (product category NOW).**

- 4.1 Purpose. The NOW is designed to provide customers with detailed weather information occurring within six hours of product issuance that does not necessitate an update to the digital database.
- 4.2 Content. ER WFOs should issue Short Term Forecasts to discuss the evolution of convective and stratiform precipitation, winter weather, marine events, sea breezes, fog, winds, and temperature within their CWA. The NOW will not duplicate information contained in the SPS or other watch, warning, advisory text products.
- 4.3 Dissemination. The NOW will be accessible via WFO internet pages, similar to other watch, warning, and advisory products. It should also be broadcast on NOAA Weather Radio All Hazards (NWR).

#### **5. Examples.**

##### 5.1 Hazardous Weather Outlook.

##### 5.1.1 Severe Weather.

Example #1: HWO issued by WFO Cleveland, Ohio describes the severe weather potential in the 12 to 18 hour timeframe.

FLUS41 KCLE 210858  
HWOCLE

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE CLEVELAND OH  
458 AM EDT WED JUN 21 2006

LEZ142>144-162>164-OHZ003-006>009-017>019-220900-  
MAUMEE BAY TO RENO BEACH OH-RENO BEACH TO THE ISLANDS OH-THE ISLANDS TO  
VERMILION OH-MAUMEE BAY OH TO RENO BEACH OH BEYOND 5 NM OF SHORE-  
RENO BEACH TO THE ISLANDS OH BEYOND 5 NM OF SHORE-THE ISLANDS TO VERMILION  
OH BEYOND 5 NM OF SHORE-LUCAS-WOOD-OTTAWA-SANDUSKY-ERIE OH-HANCOCK-

SENECA-HURON-  
458 AM EDT WED JUN 21 2006

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF LAKE ERIE...  
NORTH CENTRAL OHIO AND NORTHWEST OHIO.

.DAY ONE...TODAY AND TONIGHT

THERE IS A MODERATE RISK OF SEVERE THUNDERSTORMS TODAY AND TONIGHT.  
DAMAGING WIND GUSTS AND LARGE HAIL APPEAR TO BE THE PRIMARY SEVERE  
WEATHER THREAT BUT AN ISOLATED TORNADO IS ALSO POSSIBLE.

THE MAIN THREAT FOR SEVERE WEATHER WILL BE FROM LATE AFTERNOON INTO EARLY  
TONIGHT. HOWEVER SCATTERED THUNDERSTORMS ARE EXPECTED THROUGHOUT THE  
DAY AND THESE MAY ALSO BE SEVERE.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

THERE IS A SLIGHT RISK OF SEVERE THUNDERSTORMS THURSDAY AS A COLD FRONT  
SLOWLY SAGS THROUGH THE AREA.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION WILL LIKELY BE NEEDED LATER THIS AFTERNOON AND EARLY  
TONIGHT.

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Example #2: Situation – A Severe Thunderstorm Watch and Flash Flood Watch are in  
effect for the Wilmington, NC area. The HWO does not have headlines highlighted.

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE WILMINGTON NC  
1253 PM EST WED JAN 3 2007

AMZ250-252-NCZ087-096-097-099>101-041000-  
SURF CITY TO CAPE FEAR NC OUT 20 NM-  
CAPE FEAR NC TO LITTLE RIVER INLET SC OUT 20 NM-ROBESON-BLADEN-PENDER-  
COLUMBUS-BRUNSWICK-NEW HANOVER-  
1253 PM EST WED JAN 3 2007

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF SOUTHEAST NORTH  
CAROLINA AND NORTHEAST SOUTH CAROLINA.

.DAY ONE...THIS AFTERNOON AND TONIGHT

THERE IS A SLIGHT RISK OF SEVERE WEATHER THIS AFTERNOON AND TONIGHT AS A  
COLD FRONT PASSES. THE PRIMARY THREAT WILL BE DAMAGING WINDS AND LARGE  
HAIL.

A FLASH FLOOD WATCH IS ALSO IN EFFECT. HEAVY RAINFALL FROM THUNDERSTORMS  
COULD RESULT IN LOCALIZED FLOODING OF ROADS.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT SEVERE WEATHER AND FLOODING.

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Example #3: Situation – A Severe Thunderstorm Watch and Flash Flood Watch are in effect for the Wilmington, NC area. The headlines are highlighted in the HWO.

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE WILMINGTON NC  
253 PM EST WED JAN 3 2007

AMZ250-252-NCZ087-096-097-099>101-041000-  
SURF CITY TO CAPE FEAR NC OUT 20 NM-  
CAPE FEAR NC TO LITTLE RIVER INLET SC OUT 20 NM-ROBESON-BLADEN-PENDER-  
COLUMBUS-BRUNSWICK-NEW HANOVER-  
253 PM EST WED JAN 3 2007

...SEVERE THUNDERSTORM WATCH UNTIL 7 PM EST...  
...FLASH FLOOD WATCH THROUGH TONIGHT...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF SOUTHEAST NORTH CAROLINA AND NORTHEAST SOUTH CAROLINA.

.DAY ONE...THIS AFTERNOON AND TONIGHT

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

SEVERE THUNDERSTORM WATCH  
FLASH FLOOD WATCH

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT SEVERE WEATHER.

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### 5.1.2 Winter Weather.

Example #4: This outlook issued by WFO Binghamton, New York describes the winter storm potential in the two to three day timeframe.

FLUS41 KBGM 260810



HWOBGM

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE BINGHAMTON NY  
310 AM EST TUE DEC 26 2006

NYZ009-015>018-022>025-036-037-044>046-055>057-062-PAZ038>040-043-044-047-048-072-  
270815-  
NORTHERN ONEIDA-YATES-SENECA-SOUTHERN CAYUGA-ONONDAGA-STEUBEN-  
SCHUYLER-CHEMUNG-TOMPKINS-MADISON-SOUTHERN ONEIDA-CORTLAND-  
CHENANGO-OTSEGO-TIOGA-BROOME-DELAWARE-SULLIVAN-BRADFORD-  
SUSQUEHANNA-NORTHERN WAYNE-WYOMING-LACKAWANNA-LUZERNE-PIKE-  
SOUTHERN WAYNE-  
310 AM EST TUE DEC 26 2006

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF CENTRAL NEW  
YORK...SOUTHEASTERN NEW YORK AND NORTHEAST PENNSYLVANIA.

.DAY ONE...TODAY AND TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.DAYS TWO THROUGH SEVEN...WEDNESDAY THROUGH MONDAY

POTENTIALLY SIGNIFICANT WINTER WEATHER MAY IMPACT PARTS OF THE  
AREA WEDNESDAY NIGHT THROUGH THURSDAY...ALTHOUGH CONFIDENCE  
IS LOW ON THE EXACT DETAILS.

AT THE PRESENT TIME...THE MOST LIKELY SCENARIO CALLS FOR RAIN TO SPREAD  
ACROSS THE REGION ON WEDNESDAY AFTERNOON. WEDNESDAY NIGHT...A MIX OF  
RAIN AND SNOW IS EXPECTED ACROSS UPSTATE NEW YORK WITH THE POTENTIAL  
FOR MODERATE SNOW ACCUMULATIONS OVER THE HIGHER ELEVATIONS. THE  
PRECIPITATION SHOULD BE PRIMARILY IN THE FORM OF RAIN ACROSS NORTHEAST  
PENNSYLVANIA WEDNESDAY NIGHT.

ON THURSDAY...A CHANGEOVER TO SNOW IS LIKELY TO OCCUR DURING THE  
EARLY MORNING HOURS ACROSS UPSTATE NEW YORK...AND DURING THE AFTERNOON  
ACROSS NORTHEAST PENNSYLVANIA. CURRENTLY...THE GREATEST SNOW  
ACCUMULATIONS APPEAR MOST LIKELY ON THURSDAY OVER PORTIONS OF THE  
FINGER LAKES AND CENTRAL SOUTHERN TIER OF NEW YORK...WITH POTENTIAL  
AMOUNTS OF 6 TO 10 INCHES.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED WEDNESDAY NIGHT AND THURSDAY.

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Example #5: Situation – A storm system is approaching the WFO Burlington, VT area from the south. Models and Hydrometeorological Prediction Center (HPC) guidance indicate that the storm could produce heavy snow over an extended period. The WFO issued a Winter Storm Watch for parts of Vermont and New York, and the HWO was subsequently updated at 4:13 p.m. on Thursday December 22, 2005.

FLUS41 KBTV 222113  
HWOBTV

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE BURLINGTON VT  
413 PM EST THU DEC 22 2005

NYZ026>031-034-035-087-VTZ001>012-016>019-230845-  
NORTHERN ST. LAWRENCE-NORTHERN FRANKLIN-EASTERN CLINTON-  
SOUTHEASTERN ST. LAWRENCE-SOUTHERN FRANKLIN-WESTERN CLINTON-  
WESTERN ESSEX-EASTERN ESSEX-SOUTHWESTERN ST. LAWRENCE-GRAND ISLE-  
WESTERN FRANKLIN-ORLEANS-ESSEX-WESTERN CHITTENDEN-LAMOILLE-  
CALEDONIA-WASHINGTON-WESTERN ADDISON-ORANGE-WESTERN RUTLAND-  
WINDSOR-EASTERN FRANKLIN-EASTERN CHITTENDEN-EASTERN ADDISON-  
EASTERN RUTLAND-  
413 PM EST THU DEC 22 2005

...WINTER STORM WATCH FRIDAY AFTERNOON THROUGH SATURDAY MORNING...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR NORTHERN NEW YORK...CENTRAL AND  
NORTHERN VERMONT.

.DAY ONE...TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.DAYS TWO THROUGH SEVEN...FRIDAY THROUGH WEDNESDAY

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

#### WINTER STORM WATCH

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT SNOWFALL AMOUNTS AND RATES.

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Example #6: Same as example #5, however the WFO does not have the headlines  
highlighted in the HWO.

FLUS41 KBTV 222113  
HWOBTV

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE BURLINGTON VT  
413 PM EST THU DEC 22 2005

NYZ026>031-034-035-087-VTZ001>012-016>019-230845-  
NORTHERN ST. LAWRENCE-NORTHERN FRANKLIN-EASTERN CLINTON-  
SOUTHEASTERN ST. LAWRENCE-SOUTHERN FRANKLIN-WESTERN CLINTON-  
WESTERN ESSEX-EASTERN ESSEX-SOUTHWESTERN ST. LAWRENCE-GRAND ISLE-

WESTERN FRANKLIN-ORLEANS-ESSEX-WESTERN CHITTENDEN-LAMOILLE-  
CALEDONIA-WASHINGTON-WESTERN ADDISON-ORANGE-WESTERN RUTLAND-  
WINDSOR-EASTERN FRANKLIN-EASTERN CHITTENDEN-EASTERN ADDISON-  
EASTERN RUTLAND-  
413 PM EST THU DEC 22 2005

THIS HAZARDOUS WEATHER OUTLOOK IS FOR NORTHERN NEW YORK...CENTRAL AND  
NORTHERN VERMONT.

.DAY ONE...TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.DAYS TWO THROUGH SEVEN...FRIDAY THROUGH WEDNESDAY

A PROLONGED PERIOD OF HEAVY SNOW AND STRONG WINDS IS EXPECTED FRIDAY  
AFTERNOON THROUGH SATURDAY. THERE IS A POTENTIAL OF ONE TO TWO FEET OF  
SNOWFALL WITH LOCALIZED HIGHER AMOUNTS. WIND CHILL VALUES COULD BE AS  
LOW AS 20 BELOW

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT SNOWFALL AMOUNTS AND RATES.

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### 5.1.3 Hydrologic.

Example #7: This outlook issued by WFO Raleigh, North Carolina describes the flood  
potential in the two to three day timeframe.

FLUS42 KRAH 150921  
HWORAH

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE RALEIGH NC  
421 AM EST WED NOV 15 2006

NCZ007>011-021>028-038>043-073>078-083>086-088-089-160930-  
PERSON-GRANVILLE-VANCE-WARREN-HALIFAX-FORSYTH-GUILFORD-ALAMANCE-  
ORANGE-DURHAM-FRANKLIN-NASH-EDGEcombe-DAVIDSON-RANDOLPH-CHATHAM-  
WAKE-JOHNSTON-WILSON-STANLY-MONTGOMERY-MOORE-LEE-HARNETT-WAYNE-  
ANSON-RICHMOND-SCOTLAND-HOKE-CUMBERLAND-SAMPSON-  
421 AM EST WED NOV 15 2006

...HEAVY RAIN IS POSSIBLE AGAIN THURSDAY AND THURSDAY NIGHT...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF CENTRAL NORTH  
CAROLINA.

.DAY ONE...TODAY AND TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

LIGHT RAIN MAY SPREAD INTO THE AREA TONIGHT WELL AHEAD OF THE APPROACHING FRONT. BUT HEAVIER AND MORE NUMEROUS SHOWERS, AND POSSIBLY EVEN SOME THUNDERSTORMS, COULD PRODUCE AREAS OF HEAVY RAIN ACROSS THE REGION THURSDAY AND EARLY THURSDAY NIGHT. AVERAGE RAINFALL IS FORECAST TO BE BETWEEN ONE AND TWO INCHES, BUT LOCALIZED AMOUNTS COULD APPROACH THREE INCHES, ESPECIALLY IF THUNDERSTORMS MATERIALIZE.

WITH A GOOD DEAL OF RAIN OVER THE PAST COUPLE OF WEEKS, SOILS ARE SATURATED AND STREAMS AND RIVERS ARE RUNNING QUITE HIGH.

IF HEAVY RAIN OCCURS THURSDAY AND EARLY THURSDAY NIGHT, RUNOFF WILL BE VERY RAPID AND WILL ALMOST DEFINITELY PRODUCE POOR-DRAINAGE FLOODING. IF THE HEAVY RAIN FALLS IN A RELATIVELY SHORT PERIOD OF TIME, STREAM FLOODING WILL ONCE AGAIN BE POSSIBLE.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED THURSDAY AND EARLY THURSDAY NIGHT.

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Example #8: This updated multi-segmented outlook issued by WFO Sterling, Virginia describes the flood and marine-related high wind potential caused by remnants of a tropical system in the two to four day timeframe.

FLUS41 KLWX 301517  
HWOLWX

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC  
1117 AM EDT WED AUG 30 2006

DCZ001-MDZ003>007-009>011-013-014-016>018-501-502-  
VAZ021-025>031-036>042-050>057-WVZ050>055-501>504-310915-  
DISTRICT OF COLUMBIA-WASHINGTON-FREDERICK MD-CARROLL-NORTHERN  
BALTIMORE-HARFORD-MONTGOMERY-HOWARD-SOUTHERN BALTIMORE-PRINCE  
GEORGES-ANNE ARUNDEL-CHARLES-ST. MARYS-CALVERT-EXTREME WESTERN  
ALLEGANY-CENTRAL AND EASTERN ALLEGANY-HIGHLAND-AUGUSTA-ROCKINGHAM-  
SHENANDOAH-FREDERICK VA-PAGE-WARREN-CLARKE-NELSON-ALBEMARLE-GREENE-  
MADISON-RAPPAHANNOCK-FAUQUIER-LOUDOUN-ORANGE-CULPEPER-PRINCE  
WILLIAM/MANASSAS/MANASSAS PARK-FAIRFAX-ARLINGTON/FALLS  
CHURCH/ALEXANDRIA-STAFFORD-SPOTSYLVANIA-KING GEORGE-HAMPSHIRE-MORGAN-  
BERKELEY-JEFFERSON-PENDLETON-HARDY-WESTERN GRANT-EASTERN GRANT-  
WESTERN MINERAL-EASTERN MINERAL-  
1117 AM EDT WED AUG 30 2006

THIS HAZARDOUS WEATHER OUTLOOK IS FOR MARYLAND WEST OF THE EASTERN SHORE AND EAST OF GARRETT COUNTY...EASTERN WEST VIRGINIA...NORTHERN AND CENTRAL VIRGINIA...AND WASHINGTON DC.

.DAY ONE...THIS AFTERNOON AND TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

THERE IS THE POTENTIAL FOR HEAVY RAINFALL AND FLOODING LATE THIS WEEK AS THE REMNANTS OF TROPICAL STORM ERNESTO IS EXPECTED TO AFFECT THE MID ATLANTIC. HOWEVER...CONFIDENCE IS LOW AT THIS TIME CONCERNING EXACT DETAILS.

CURRENT INDICATIONS ARE THAT PERIODS OF HEAVY RAIN COULD BEGIN AS EARLY AS THURSDAY, AND CONTINUE THROUGH FRIDAY NIGHT. RAINFALL AMOUNTS OF 5 TO 10 INCHES COULD OCCUR.

RAINFALL OF THAT MAGNITUDE WOULD RESULT IN FLOODING OF SMALL STREAM AND CREEKS...URBAN AREAS AND MAIN STEM RIVERS SUCH AS THE POTOMAC AND RAPPAHANNOCK.

.  
.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE REQUIRED THURSDAY AND FRIDAY.

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ANZ530>537- 310915-  
CHESAPEAKE BAY NORTH OF POOLES ISLAND MD-  
CHESAPEAKE BAY FROM POOLES ISLAND TO SANDY POINT MD-  
CHESAPEAKE BAY FROM SANDY POINT TO NORTH BEACH MD-  
CHESAPEAKE BAY FROM NORTH BEACH TO DRUM POINT MD-  
CHESAPEAKE BAY FROM DRUM POINT MD TO SMITH POINT VA-  
TIDAL POTOMAC FROM KEY BRIDGE TO INDIAN HEAD MD-  
TIDAL POTOMAC FROM INDIAN HEAD TO COBB ISLAND MD-  
TIDAL POTOMAC FROM COBB ISLAND MD TO SMITH POINT VA-  
1117 AM EDT WED AUG 30 2006

THIS HAZARDOUS WEATHER OUTLOOK IS FOR THE CHESAPEAKE BAY AND THE TIDAL POTOMAC RIVER.

.DAY ONE...THIS AFTERNOON AND TONIGHT

NO HAZARDOUS WEATHER IS EXPECTED.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

THE REMNANTS OF TROPICAL STORM ERNESTO MAY PRODUCE STRONG WINDS THURSDAY NIGHT AND FRIDAY.

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## 5.2 Special Weather Statement.

Example #9: SPS issued by WFO State College, PA contains latitude / longitude information to provide increase spatial detail.

WWUS81 KCTP 222132

SPSCTP

SPECIAL WEATHER STATEMENT  
NATIONAL WEATHER SERVICE STATE COLLEGE PA  
532 PM EDT THU APR 22 2010

PAZ026>028-056-063-222215-  
CUMBERLAND PA-HUNTINGDON PA-JUNIATA PA-MIFFLIN PA-PERRY PA-  
532 PM EDT THU APR 22 2010

...A SHOWER WITH STRONG WIND GUSTS WILL AFFECT CENTRAL HUNTINGDON...  
JUNIATA...NORTHWESTERN CUMBERLAND...SOUTHERN MIFFLIN AND WESTERN  
PERRY COUNTIES...

AT 524 PM EDT...A SHOWER WITH STRONG WIND GUSTS WAS NEAR  
PETERSBURG...MOVING EAST AT 40 MPH.

WIND GUSTS TO 50 MPH AND SMALL HAIL ARE POSSIBLE WITH THIS SHOWER.  
THIS SHOWER WILL BE NEAR MCVEYTOWN AROUND 545 PM...KISTLER AROUND 600  
PM AND LOYSVILLE AROUND 615 PM.

LAT...LON 4059 7719 4018 7740 4049 7805 4066 7798

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Example #10: SPS issued by WFO Burlington, VT that does not contain latitude /  
longitude.

WWUS81 KBTW 011107  
SPSBTV

SPECIAL WEATHER STATEMENT  
NATIONAL WEATHER SERVICE BURLINGTON VT  
707 AM EDT THU APR 1 2010

NYZ026>031-034-035-087-VTZ001-002-005-009-011300-  
NORTHERN ST. LAWRENCE-NORTHERN FRANKLIN-EASTERN CLINTON-  
SOUTHEASTERN ST. LAWRENCE-SOUTHERN FRANKLIN-WESTERN CLINTON-  
WESTERN ESSEX-EASTERN ESSEX-SOUTHWESTERN ST. LAWRENCE-GRAND ISLE-  
WESTERN FRANKLIN-WESTERN CHITTENDEN-WESTERN ADDISON-  
INCLUDING THE CITIES OF...MASSENA...MALONE...PLATTSBURGH...  
STAR LAKE...SARANAC LAKE...TUPPER LAKE...DANNEMORA...  
707 AM EDT THU APR 1 2010

PATCHY DENSE FOG WILL CONTINUE TO AFFECT THE SAINT LAWRENCE  
VALLEY...NORTHERN ADIRONDACKS AND CHAMPLAIN VALLEY THROUGH EARLY  
THIS MORNING. THE FOG IS VERY DENSE IN SOME PLACES WITH VISIBILITIES  
DROPPING BELOW ONE QUARTER MILE. THE FOG WILL LIFT BETWEEN 8 AND 9  
AM. DRIVERS SHOULD EXERCISE CAUTION AND ALLOW EXTRA ROOM FOR  
STOPPING.

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### 5.3 Short Term Forecast.

Example #11: NOW issued by WFO Charleston, SC highlighting patchy fog that does not meet advisory criteria.

FPUS72 KCHS 240342  
NOWCHS

SHORT TERM FORECAST  
NATIONAL WEATHER SERVICE CHARLESTON SC  
1042 PM EST SAT DEC 23 2006

GAZ087-088-099>101-114>119-137>141-SCZ040-042>045-047>051-240715-  
JENKINS-SCREVEN-CANDLER-BULLOCH-EFFINGHAM-TATTNALL-EVANS-INLAND BRYAN-  
COASTAL BRYAN-INLAND CHATHAM-COASTAL CHATHAM-LONG-INLAND LIBERTY-  
COASTAL LIBERTY-INLAND MCINTOSH-COASTAL MCINTOSH-ALLENDALE-HAMPTON-  
INLAND COLLETON-DORCHESTER-BERKELEY-INLAND JASPER-BEAUFORT-COASTAL  
COLLETON-CHARLESTON-COASTAL JASPER-  
INCLUDING THE CITIES OF...MILLEN...SYLVANIA...METTER.  
1042 PM EST SAT DEC 23 2006

.NOW...  
PATCHY FOG WILL CONTINUE IN THE EDISTO RIVER VALLEY. VISIBILITY IN THE FOG  
WILL BE REDUCED TO LESS THAN 1 MILE THROUGH THE NIGHT...BUT WITH LOCAL  
VISIBILITY DOWN TO NEAR OR LESS THAN 1/4 MILE.

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Example #12: NOW issued by WFO Cleveland, OH highlighting light rain moving through the forecast area.

FPUS71 KCLE 212358  
NOWCLE

SHORT TERM FORECAST  
NATIONAL WEATHER SERVICE CLEVELAND OH  
658 PM EST THU DEC 21 2006

OHZ011>014-021>023-032-033-089-220100-  
CUYAHOGA-LAKE-GEAUGA-ASHTABULA INLAND-SUMMIT-PORTAGE-TRUMBULL-STARK-  
MAHONING-ASHTABULA LAKESHORE-  
INCLUDING THE CITIES OF...CLEVELAND...MENTOR...CHARDON  
658 PM EST THU DEC 21 2006

.NOW...  
RAIN MOVING THROUGH NORTH CENTRAL OHIO WILL CONTINUE TO MOVE EAST AND  
MOVE INTO NORTHEAST OHIO FROM CLEVELAND TO CANTON AROUND 8PM AND FROM  
ASHTABULA TO YOUNGSTOWN BY 10PM. RAINFALL WILL BE AROUND A TENTH OF AN  
INCH OR LESS.

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