

***NATIONAL WEATHER SERVICE INSTRUCTION 10-511***

***APRIL 19, 2010***

***Operations and Services***

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

***WFO SEVERE WEATHER PRODUCTS SPECIFICATION***

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

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**Certified by:** W/OS22 (E. Jacks)

**Type of Issuance:** Routine.

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***SUMMARY OF REVISIONS:*** This directive supersedes NWSI 10-511, dated November 1, 2005. The following changes were made to this instruction:

- 1) Changes the severe thunderstorm hail criterion to one inch (U.S. quarter-size).
  - 2) Limits the number of counties/parishes to 12 or less for Severe Thunderstorm and Tornado Warnings.
  - 3) Clarifies Severe Thunderstorm Warning definition for convective squalls with little or no lightning that otherwise meets severe thunderstorm criteria.
  - 4) Clarifies separating a state or county/parish into divisions.
  - 5) Clarifies product formats.
  - 6) Adds guidance on the use of “pathcasts”.
  - 7) Adds guidance on the use of the “tornado emergency”.
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-signed-

April 12, 2010

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Date

**WFO Severe Weather Products Specification**

<u>Table of Contents:</u>	<u>Page</u>
1. Introduction.....	4
2. Severe Thunderstorm Warning (SVR).....	4
2.1 Mission Connection.....	4
2.2 Issuance Guidelines.....	4
2.2.1 Creation Software.....	4
2.2.2 Issuance Criteria.....	4
2.2.3 Issuance Time.....	4
2.2.4 Valid Time.....	4
2.2.5 Product Expiration Time.....	4
2.3 Technical Description.....	4
2.3.1 UGC Type.....	4
2.3.2 MND Broadcast Line.....	4
2.3.3 MND Header.....	4
2.3.4 Content.....	5
2.3.5 Format.....	5
2.4 Updates, Amendments and Corrections.....	7
3. Tornado Warning (TOR).....	7
3.1 Mission Connection.....	7
3.2 Issuance Guidelines.....	7
3.2.1 Creation Software.....	7
3.2.2 Issuance Criteria.....	7
3.2.3 Issuance Time.....	7
3.2.4 Valid Time.....	7
3.2.5 Product Expiration Time.....	7
3.3 Technical Description.....	7
3.3.1 UGC Type.....	7
3.3.2 MND Broadcast Line.....	7
3.3.3 MND Header.....	7
3.3.4 Content.....	7
3.3.5 Format.....	8
3.4 Updates, Amendments and Corrections.....	10
4. Severe Weather Statement (SVS).....	10
4.1 Mission Connection.....	10
4.2 Issuance Guidelines.....	10
4.2.1 Creation Software.....	10
4.2.2 Issuance Criteria.....	10

- 4.2.3 Issuance Time .....10
- 4.2.4 Valid Time .....10
- 4.2.5 Product Expiration Time.....10
- 4.3 Technical Description.....10
  - 4.3.1 UGC Type.....10
  - 4.3.2 MND Broadcast Line.....10
  - 4.3.3 MND Header .....10
  - 4.3.4 Content.....11
  - 4.3.5 Format.....11
- 4.4 Updates, Amendments and Corrections .....12
- 5. Watch County Notification Message (WCN).....12
  - 5.1 Mission Connection.....12
  - 5.2 Issuance Guidelines .....12
    - 5.2.1 Creation Software .....12
    - 5.2.2 Issuance Criteria .....12
    - 5.2.3 Issuance Time .....13
    - 5.2.4 Valid Time .....13
    - 5.2.5 Product Expiration Time.....13
  - 5.3 Technical Description.....13
    - 5.3.1 MND Broadcast Line.....13
    - 5.3.2 MND Header .....13
    - 5.3.3 Content.....13
    - 5.3.4 Format.....14
  - 5.4 Updates, Amendments and Corrections .....15
- Appendix A. Examples ..... A-1

1. **Introduction.** This procedural instruction describes the severe weather products issued by Weather Forecast Offices (WFO), provides guidelines associated with these products, specifies detailed content as needed, and outlines a generic format for each product type.
2. **Severe Thunderstorm Warning (product category SVR).**
  - 2.1 **Mission Connection.** Severe Thunderstorm Warnings (SVRs) are issued to protect lives and property. WFO forecasters issue SVRs to provide the public and emergency managers with advance notice of damaging wind gusts and large hail.
  - 2.2 **Issuance Guidelines.**
    - 2.2.1 **Creation Software.** WFOs will use WarnGen to issue SVRs.
    - 2.2.2 **Issuance Criteria.** WFOs should issue SVRs when there is radar or satellite indication and/or reliable reports of wind gusts equal to or in excess of 50 knots (58 mph) and/or hail size of one inch (U.S. quarter-size) diameter or larger. WFOs may issue SVRs for a convective squall with little or no lightning that otherwise meet or exceed hail or wind warning criterion.
    - 2.2.3 **Issuance Time.** SVRs are non-scheduled, event-driven products.
    - 2.2.4 **Valid Time.** Valid times should be within 30 to 60 minutes of issuance. For thunderstorms that are expected to remain severe beyond the valid time of the original warning, WFOs should issue a new warning.
    - 2.2.5 **Product Expiration Time.** The product expiration time is the end of warning valid time.
  - 2.3 **Technical Description.** SVRs will follow the format and content described in this section.
    - 2.3.1 **UGC Type.** County (Zone for Alaska and parts of Pacific Region)
    - 2.3.2 **Mass News Disseminator Broadcast Line.** SVRs should include the broadcast line “BULLETIN - EAS ACTIVATION REQUESTED.” If a state does not require EAS activation for SVRs, the broadcast line will read “BULLETIN - IMMEDIATE BROADCAST REQUESTED.” The term “BULLETIN” is used when information is sufficiently urgent to warrant breaking into a normal broadcast.
    - 2.3.3 **Mass News Disseminator Header.** The SVR Mass News Disseminator (MND) header is “SEVERE THUNDERSTORM WARNING.”

2.3.4 Content. WFOs should limit the number of counties/parishes in a SVR to 12 or less. WFOs should not combine Severe Thunderstorm and Flash Flood Warnings. SVRs will include the possibility of tornadoes if a Tornado Watch is in effect. If a severe thunderstorm moves over coastal waters, a Special Marine Warning will be issued (see NWSI 10-313 for details on Special Marine Warnings). Note that the hail criterion for Special Marine Warnings is 3/4 inch (U.S. penny-size). SVRs will follow a standard bullet style format. WFOs should keep bullets brief. WFOs should include call to action statements. The WFO Shift Leader on duty may discontinue call to action statements in warnings during widespread severe weather outbreaks. Locations used to identify the threatened areas should be larger towns and other familiar landmarks. WFOs may reinforce the warning with recent history to support their reasoning. Names of states and counties (or parts of counties) should be spelled out. If separating a state or county/parish into divisions, WFOs should use no more than a nine part division (i.e., northeast, east central, etc.) in coordination with state and local emergency managers and other partners. WFOs may use mileage markers as reference points in rural areas when a storm is occurring or forecast to move over a major highway.

In general, warnings should not contain 'pathcasts' (specific forecasts of location and arrival time) unless the forecaster has very high confidence in the movement (direction and speed) of the hazardous weather. Any 'pathcast' issued will use terms of uncertainty appropriate to the state of the science (e.g., 'the severe thunderstorm will be near [location] around [time]'). No 'pathcast' will be issued using specific location forecasts (e.g., '3 miles northwest of Riverside'). Warnings that contain pathcast information should be followed by frequent Severe Weather Statements.

2.3.5 Format. The SVR format will contain this information in the following order (see Figure 1):

First Bullet - Type of warning; and warning location(s);

Second Bullet - Expiration time of warning;

Third Bullet - Time, basis for warning (including recent credible reports); forecast impacts including hail sizes and wind gusts; storm motion. If edits of more than 10 mph or more than 45 degrees are required, the forecaster should restart WarnGen rather than manually edit the text to keep in agreement with TIME...MOT...LOC line.

Fourth Bullet - Locations to be impacted during the warning (see Figure 1);

PRECAUTIONARY/PREPAREDNESS ACTIONS - One or two short, concise, action-oriented call-to-action statements should be included. Hail size and wind gust reports should go in the basis statement (third bullet) instead of the precautionary/preparedness actions.

LAT...LON - The warning area polygon as described by a series of latitude/longitude

coordinates in decimal degrees with precision to hundredths (2 decimal places). The polygon will contain as few as three and as many as 20 vertices.

TIME...MOT...LOC - The tracking information gives the location and movement of the event being tracked. Examples of such events could include the leading edge of a gust front or the leading edge of a hail core. The format (see Figure 1) includes the time of the observed event in Coordinated Universal Time, followed by a three digit direction of movement in degrees, followed by speed of movement in knots, and finally the location of the event as a single latitude/longitude coordinate, or in the case of a line, two or more latitude/longitude coordinates.

```

WUaa5i cccc ddhhmm
SVRccc
STC001-002-ddhhmm-
/k.aaa.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/

BULLETIN - EAS ACTIVATION (or IMMEDIATE BROADCAST) REQUESTED
SEVERE THUNDERSTORM WARNING (...CORRECTED as required)
NATIONAL WEATHER SERVICE CITY STATE
time am/pm time_zone day mon dd yyyy

THE NATIONAL WEATHER SERVICE IN CITY HAS ISSUED A

* SEVERE THUNDERSTORM WARNING FOR...
  PORTION COUNTY ONE IN SECTION STATE... (List warned counties)
  PORTION COUNTY TWO IN SECTION STATE... (Number of counties will
  match number of counties in UGC Line)

* UNTIL hhmm AM/PM time_zone (Expiration time of warning)

* AT hhmm am/pm time_zone... (Warning basis statement)
  (List impacts, including hail size(s) and wind gusts)

* LOCATIONS IN THE WARNING INCLUDE...
  LOCATION #1...LOCATION #2...LOCATION #3...

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements)

&&

LAT...LON (Mandatory list of latitude/longitude coordinates
  outlining the forecaster-drawn warning area)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx xxxx (lat/lon couplet(s))

$$
FORECASTER NAME/NUMBER (OPTIONAL)

```

**Figure 1.** Severe Thunderstorm Warning Format

2.4 Updates, Amendments and Corrections. Updates and amendments are not applicable. WFOs will correct SVRs for significant grammatical errors, format or dissemination code errors. Corrected warnings will have the same time in the Mass News Dissemination Header and the same Event Tracking Number in the Valid Time Event Code line as the original warning. WFOs should issue Severe Weather Statements to inform users of erroneous counties removed from original warnings (either in the FIPS/Zone UGC code or in the body of the warning).

### 3. **Tornado Warning (product category TOR).**

3.1 Mission Connection. Tornado Warnings (TORs) are issued to protect lives and property. WFO forecasters issue TORs to provide the public and emergency managers with advance notice of tornadoes.

#### 3.2 Issuance Guidelines.

3.2.1 Creation Software. WFOs will use WarnGen to issue TORs.

3.2.2 Issuance Criteria. WFOs should issue TORs when there is radar or satellite indication and/or reliable reports of a tornado or developing tornado.

3.2.3 Issuance Time. TORs are non-scheduled, event-driven products.

3.2.4 Valid Time. Valid times should be 15 to 45 minutes from issuance. For a tornado expected to continue beyond the valid time of the original warning, WFOs should issue a new warning.

3.2.5 Product Expiration Time. The product expiration time is the end of warning valid time.

3.3 Technical Description. TORs will follow the format and content described in this section.

3.3.1 UGC Type. County (Zone for Alaska Region and parts of Pacific Region).

3.3.2 Mass News Disseminator Broadcast Line. TORs will include the broadcast line "BULLETIN - EAS ACTIVATION REQUESTED." The term "BULLETIN" is used when information is sufficiently urgent to warrant breaking into a normal broadcast.

3.3.3 Mass News Disseminator Header. The TOR MND header is "TORNADO WARNING."

3.3.4 Content. If a tornado moves over coastal waters, a Special Marine Warning will be issued (see NWSI 10-313 for details on Special Marine Warnings). TORs will follow a standard bullet style format. WFOs should keep bullets brief. WFOs should include a call to action statement. The WFO Shift Leader on duty may discontinue call to action statements in warnings during widespread tornadic outbreaks. Locations used to identify the threatened areas should be

larger towns and other familiar landmarks. WFOs may reinforce the warning with recent history to support their reasoning. Names of states and counties (or parts of counties) should be spelled out. If separating a state or county/parish into divisions, WFOs should use no more than a nine part division (i.e., northeast, east central, etc.) in coordination with state and local emergency managers and other partners. WFOs may use mileage markers as reference points in rural areas when a storm is occurring or forecast to move over a major highway. WFOs should limit the number of counties/parishes in a warning to 12 or less.

In exceedingly rare situations, when a severe threat to human life and catastrophic damage from a tornado is imminent or ongoing, the forecaster may use the terminology "TORNADO EMERGENCY FOR [GEOGRAPHIC AREA]" in the third bullet of the warning. Additionally, in such a situation, this terminology should only be used when reliable sources confirm a tornado, or there is clear radar evidence of the existence of a damaging tornado such as the observation of debris.

In general, warnings should not contain 'pathcasts' (specific forecasts of location and arrival time) unless the forecaster has very high confidence in the movement (direction and speed) of the tornado. Any 'pathcast' issued will use terms of uncertainty appropriate to the state of the science (e.g., 'the tornadic storm will be near [location] around [time]'). No 'pathcast' will be issued using specific location forecasts (e.g., '3 miles northwest of Riverside'). In addition, warnings, particularly those that contain pathcast information, should be followed by frequent SVSs. This ensures that users receive the best possible information concerning the location and movement of the hazardous weather.

3.3.5 Format. The TOR format will contain this information in the following order (see Figure 2):

First Bullet - Type of warning; warning location(s);

Second Bullet - Expiration time of warning;

Third Bullet - Time, basis for warning; forecast impacts; storm motion. If edits of more than 10 mph or more than 45 degrees are required, the forecaster should restart WarnGen rather than manually edit the text to keep in agreement with TIME...MOT...LOC line.

Fourth Bullet - Locations to be impacted during the warning (see Figure 2);

PRECAUTIONARY/PREPAREDNESS ACTIONS – One or two short, concise, action-oriented call-to-action statements should be included. Credible reports, hail size and wind gust information should go in the basis statement (third bullet) instead of the precautionary/preparedness actions.

LAT...LON - The warning area polygon as described by a series of latitude/longitude coordinates in decimal degrees with precision to hundredths (2 decimal places). The



polygon will contain as few as three, and as many as 20 vertices.

TIME...MOT...LOC - The tracking information gives the location and movement of the event being tracked. Examples of such events could include the low-level mesocyclone, or a report of the tornado location. The format includes the time of the observed event in Coordinated Universal Time, followed by a three digit direction of movement in degrees, followed by speed of movement in knots, and finally the location of the event as a single latitude/longitude coordinate, or in the case of a line, two or more coordinates.

```

WFaa5i cccc ddhhmm
TORccc
STC001-002-ddhhmm-
/k.aaa.cccc.pp.s.####.yyymmddThhnnZB-yyymmddThhnnZB/

BULLETIN - EAS ACTIVATION REQUESTED
TORNADO WARNING (... CORRECTED as required)
NATIONAL WEATHER SERVICE CITY STATE
time am/pm time_zone day mon dd yyyy

THE NATIONAL WEATHER SERVICE IN CITY HAS ISSUED A

* TORNADO WARNING FOR...
  PORTION COUNTY ONE IN SECTION STATE...(List warned counties)
  PORTION COUNTY TWO IN SECTION STATE... (Number of Counties will
    match number of counties in UGC Line)

* UNTIL hhmm AM/PM time_zone (Expiration time of warning)

* AT hhmm am/pm time_zone...(Warning basis statement including recent
  credible reports and forecast impacts)

* LOCATIONS IN THE WARNING INCLUDE...
  LOCATION #1...LOCATION #2...
  (Impact Locations are mandatory)

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements)

&&

LAT...LON (Mandatory list of latitude/longitude coordinates outlining
the forecaster-drawn warning area)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx xxxx (lat/lon couplet(s))

$$

FORECASTER NAME/NUMBER (OPTIONAL)

```

**Figure 2.** Tornado Warning Format

3.4 Updates, Amendments and Corrections. Updates and amendments are not applicable. WFOs will correct TORs for significant grammatical errors, format or dissemination code errors. Corrected warnings will have the same time in the Mass News Dissemination Header and the same Event Tracking Number in the Valid Time Event Code line as the original warning. WFOs should issue Severe Weather Statements (SVSs) to inform users of erroneous counties removed from original warnings (either in the FIPS/Zone UGC code or in the body of the warning).

4. **Severe Weather Statement (product category SVS).**

4.1 Mission Connection. Severe Weather Statements (SVSs) provide the public and emergency managers with updated information for specific Severe Thunderstorm and Tornado Warnings. Updated information includes reports of observed severe weather. They also inform the public and emergency managers when all or portions of a warning have been canceled or have expired.

4.2 Issuance Guidelines.

4.2.1 Creation Software. WFOs will use WarnGen to issue SVSs.

4.2.2 Issuance Criteria. WFOs should issue an SVS to provide notice an SVR or TOR has been canceled for all or portions of the warning polygon. WFOs should issue SVSs at least once during the valid time of an SVR or TOR. WFOs may issue an SVS to provide notice that an SVS or TOR has expired. WFOs should issue an SVS to notify users that erroneous counties included in the original SVSs or TORs (either in the FIPs/Zone UGC code or in the body of the warning) have been removed.

4.2.3 Issuance Time. SVSs are non-scheduled, event-driven products.

4.2.4 Valid Time. The valid time will be from the time of issuance to the warning expiration or cancellation time.

4.2.5 Product Expiration Time. The product expiration time is no more than 15 minutes after the warning expiration or cancellation time.

4.3 Technical Description. SVSs will follow the format and content described in this section.

4.3.1 UGC Type. County (Zone for Alaska Region and parts of Pacific Region).

4.3.2 Mass News Disseminator Broadcast Line. None.

4.3.3 Mass News Disseminator Header. The SVS MND header is "SEVERE WEATHER STATEMENT."

4.3.4 Content. WFOs should issue SVSs to address the status of severe weather warnings. WFOs will not use SVSs to expand in area or extend the valid time of TORs and SVRs. If the threat of severe weather clears a significant portion of the SVR or TOR during the warning period, forecasters should update the latitude and longitude pairs of the polygon within the warned county or counties.

In exceedingly rare situations, when a severe threat to human life and catastrophic damage from a tornado is imminent or ongoing, the forecaster may insert the headline "...TORNADO EMERGENCY FOR [GEOGRAPHIC AREA]...". Additionally, in such a situation, this headline should only be used when reliable sources confirm a tornado, or there is clear radar evidence of the existence of a damaging tornado (such as, the observation of debris).

In general, the SVS should not contain 'pathcasts' unless the forecaster has very high confidence in the direction and speed of the movement of the hazardous weather. Any 'pathcast' issued will use terms of uncertainty appropriate to the state of the science (e.g., 'the tornadic storm will be near [location] around [time]'). No 'pathcast' will be issued using specific location forecasts (e.g., '3 miles northwest of Riverside'). In addition, SVSs with pathcast information should be frequently updated. This ensures that users receive the best possible information concerning the location and movement of the hazardous weather.

4.3.5 Format. (see Figure 3)

```

WWUS5i cccc ddhhmm
SVSccc

SEVERE WEATHER STATEMENT
NATIONAL WEATHER SERVICE CITY STATE
time am/pm time_zone day mon dd yyyy

STC001-ddhhmm-
/k.CAN.cccc.pp.s.####.yyymmddThhnnZB-yyymmddThhnnZB/
COUNTY A -
time am/pm time_zone day mon dd yyyy

...SEVERE THUNDERSTORM (or TORNADO) WARNING HAS BEEN CANCELLED FOR
PORTION COUNTY A...

LAT...LON (Mandatory list of latitude/longitude points outlining the
warning area - modified to remove those areas no longer threatened)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx xxxx (lat/lon coordinate(s))

$$

STC003-ddhhmm-
/k.CON.cccc.pp.s.####.yyymmddThhnnZB-yyymmddThhnnZB/
COUNTY B -
time am/pm time_zone day mon dd yyyy

```

```
...SEVERE THUNDERSTORM (or TORNADO) WARNING REMAINS IN EFFECT UNTIL
hhmm am/pm time_zone FOR COUNTY B...

AT time am/pm time_zone...UPDATED LOCATION AND MOVEMENT OF SEVERE
THUNDERSTORMS. SPOTTER REPORTS OF SEVERE WEATHER. LOCATIONS TO BE
AFFECTED BY SEVERE THUNDERSTORMS IN THE NEAR TERM (VALID TIME OF THE
WARNING).

LOCATIONS IN THE WARNING INCLUDE...
LOCATION #1...LOCATION #2...

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements)

&&

LAT...LON (Mandatory list of latitude/longitude points outlining the
warning area - modified to remove those areas no longer threatened)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx xxxx (lat/lon couplet(s))

$$

FORECASTER NAME/NUMBER (OPTIONAL)
```

**Figure 3.** Severe Weather Statement (SVS) Format

The VTEC Event Tracking Number (#####) in the SVS will match the corresponding active SVR or TOR for updates and cancellations.

4.4 Updates, Amendments and Corrections. Updates and amendments to the corresponding warning polygon should be provided as necessary through subsequent SVSs. WFOs will correct statements for format and grammatical errors as required.

5. **Watch County Notification Message (product category WCN).**

5.1 Mission Connection. WFOs will issue Watch County Notification Messages (WCN) to provide NOAA/NWS' Storm Prediction Center (SPC), emergency managers, the media and the general public with a list of counties, parishes, independent cities and marine zones in a convective watch area within their geographic area of responsibility.

5.2 Issuance Guidelines.

5.2.1 Creation Software. WFOs should use the Graphical Hazards Generation Editor (GHG) software to create WCNs.

5.2.2 Issuance Criteria. Affected contiguous United States (CONUS) WFOs will issue initial

WCNs after SPC issues the initial Watch Outline Update Message (WOU). WFOs in tropical areas outside the contiguous United States (OCONUS) will issue WCNs without a WOU from SPC and based on the potential of damaging winds, severe hail, and/or tornadoes. WFOs will issue updated WCNs to cancel, extend the valid time, or extend in area portions of one or more convective watches in their geographic area of responsibility.

5.2.3 Issuance Time. WCNs are non-scheduled, event-driven products.

5.2.4 Valid Time. WCNs are valid until the watch expiration time.

5.2.5 Product Expiration Time. The expiration time is the same as the convective watch end time found in the initial Watch Outline Update Message. WFOs may extend the convective watch expiration time in a WCN update after collaboration with SPC and the other WFOs in the watch area.

5.3 Technical Description. WCNs will follow the format and content described in this section.

5.3.1 UGC Type. County.

5.3.2 MND Header. The WCN MND header is “WATCH COUNTY NOTIFICATION FOR WATCH nnnn”, where “nnnn” is the watch number. The watch number will be for the watch with the earliest issuance time if more than one watch is in effect for a WFO’s geographical area of responsibility.

5.3.3 Content. WFOs and SPC are partners in the convective watch process. In the spirit of partnership, WFOs and SPC work toward a consensus convective watch area and duration before, during, and at the end of convective watches. This partnership is defined as collaboration. OCONUS WFOs are not required to collaborate with SPC.

The list of counties, parishes, independent cities and marine zones in the initial WCN within CONUS will match the list of counties, parishes, independent cities, and marine zones in the initial WOU issued by SPC for their geographic area of responsibility. The marine zones refer to adjacent coastal waters out to 20 nautical miles for the Atlantic and Pacific Oceans, and Gulf of Mexico. All marine zones are included in convective watches for the Great Lakes.

WFOs will issue updated WCNs to continue, cancel or extend in time or area portions of one or more active convective watches in their geographic area of responsibility. WFOs will also issue updated WCNs to include new watches issued within their geographic area of responsibility while existing watches remain in effect. CONUS WFOs will collaborate with SPC and affected WFOs on counties, parishes, independent cities or marine zones added to the initial watch area, or extensions to the expiration time of the initial convective watch area. CONUS WFOs will collaborate with SPC and adjacent WFOs when counties, parishes, independent cities or marine zones are transferred from an existing convective watch to a new convective watch (e.g. watch

replacement). WFOs should ensure modifications to the convective watch area are consistent with modifications made by adjacent WFOs. The final WCN for a particular convective watch will cancel or allow expiration of all remaining counties, parishes, independent cities and/or marine zones in the watch for their geographic area of responsibility.

5.3.4 Format. (See Figure 4)

```
WWUS6i cccc ddhhmm
WCNccc
```

WATCH COUNTY NOTIFICATION FOR WATCH nnnn (*or nnnn/nnnn if more than one watch is in effect*)

NATIONAL WEATHER SERVICE CITY STATE  
time am/pm time\_zone day mon dd yyyy

```
STC001-003-ddhhmm-
/k.aaa.cccc.pp.s.####.yyymmddThhnnZB-yyymmddThhnnZE/
```

THE NATIONAL WEATHER SERVICE HAS CANCELLED SEVERE THUNDERSTORM (OR TORNADO WATCH) nnnn FOR THE FOLLOWING AREAS (*If Cancellation Segment*)

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn UNTIL time am/pm time\_zone WHICH REPLACES A PORTION OF SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn. THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS (*If Replacement Segment*)

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn UNTIL time am/pm time\_zone. SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn WILL BE ALLOWED TO EXPIRE (OR HAS EXPIRED). THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS (*If Replacement for Expired Segment*)

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn IN EFFECT UNTIL time am/pm time\_zone FOR THE FOLLOWING AREAS (*If New Segment*)

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO INCLUDE THE FOLLOWING AREAS UNTIL time am/pm time\_zone (*If Extension in Area Segment*)

SEVERE THUNDERSTORM (OR TORNADO) WATCH NUMBER nnnn...PREVIOUSLY IN EFFECT UNTIL time am/pm time\_zone...IS NOW IN EFFECT UNTIL time am/pm time\_zone FOR THE FOLLOWING AREAS(*If Extension in Time Segment*)

SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn REMAINS VALID UNTIL time am/pm time\_zone FOR THE FOLLOWING AREAS (*If Continuation Segment*)

THE NATIONAL WEATHER SERVICE WILL ALLOW SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO EXPIRE AT time am/pm time\_zone FOR THE FOLLOWING AREAS(*If Expiration Segment-issued prior to watch end time*)

THE NATIONAL WEATHER SERVICE HAS ALLOWED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO EXPIRE FOR THE FOLLOWING AREAS. (*If Expiration Segment - issued after the watch end time*)

SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn WILL BE ALLOWED TO EXPIRE (OR HAS EXPIRED). THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS (*If Replacement for Expired Segment*)

IN STATE 1 THIS WATCH INCLUDES (or CANCELS or ALLOWS TO EXPIRE) n COUNTIES

LIST OF COUNTIES IN STATE 1 (OR PORTION OF STATE 1)

IN STATE 1 THIS WATCH INCLUDES (or CANCELS or ALLOWS TO EXPIRE) n INDEPENDENT CITIES

LIST OF INDEPENDENT CITIES IN STATE 1

THIS WATCH INCLUDES (or THIS CANCELS or ALLOWS TO EXPIRE) THE FOLLOWING ADJACENT COASTAL WATERS

LIST OF MARINE ZONES

OTHER CITIES IN STATES 1 (OPTIONAL)

\$\$ (END OF SEGMENT)

**Figure 4.** Watch County Notification (WCN) Message Format

The VTEC Event Tracking Number (#####) will match the SPC watch number designated in the WOU, except for WCNs issued by WFOs in Pacific Region and Puerto Rico.

5.4 Updates, Amendments and Corrections. WFOs will update WCNs when counties, parishes, independent cities, or marine zones are canceled or added from the watch or the watch valid time is extended. WFOs will correct WCNs for format and grammatical errors.

APPENDIX A - Examples

Table of Contents: Page

- 1. Introduction..... A-2
- 2. Severe Thunderstorm Warning (SVR)..... A-2
- 3. Tornado Warning (TOR) ..... A-3
- 4. Severe Weather Statement (SVS)..... A-5
- 5. Watch County Notification Message (WCN)..... A-8



1. **Introduction.** This appendix provides the public with examples of severe weather products issued by WFOs.
2. **Severe Thunderstorm Warning (SVR).**

WUUS53 KOAX 210453  
SVROAX  
NEC003-107-139-210545-  
/O.NEW.KOAX.SV.W.0062.090521T0453Z-090521T0545Z/

BULLETIN - EAS ACTIVATION REQUESTED  
SEVERE THUNDERSTORM WARNING  
NATIONAL WEATHER SERVICE OMAHA/VALLEY NEBRASKA  
1153 PM CDT WED MAY 20 2009

THE NATIONAL WEATHER SERVICE IN OMAHA HAS ISSUED A

\* SEVERE THUNDERSTORM WARNING FOR...  
NORTHERN ANTELOPE COUNTY IN NORTHEAST NEBRASKA...  
SOUTHERN KNOX COUNTY IN NORTHEAST NEBRASKA...  
NORTHWESTERN PIERCE COUNTY IN NORTHEAST NEBRASKA...

\* UNTIL 1245 AM CDT.

\* AT 1153 PM CDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A SEVERE THUNDERSTORM CAPABLE OF PRODUCING QUARTER SIZE HAIL...AND DESTRUCTIVE WINDS AROUND 70 MPH. THIS STORM WAS LOCATED NEAR ORCHARD...OR 46 MILES NORTHWEST OF NORFOLK...AND MOVING EAST AT 35 MPH.

\* LOCATIONS IN THE WARNING INCLUDE...  
ORCHARD...CREIGHTON AND PLAINVIEW

PRECAUTIONARY/PREPAREDNESS ACTIONS...

STRONG WINDS FROM THIS STORM WILL LIKELY PRODUCE DAMAGE TO TREES AND BUILDINGS. THIS STORM HAS THE POTENTIAL TO CAUSE SERIOUS INJURY AND SIGNIFICANT DAMAGE. MOVE TO AN INTERIOR ROOM ON THE LOWEST LEVEL OF THE BUILDING. CARS...BOATS AND MOBILE HOMES ARE NOT A SAFE PLACE DURING HIGH WINDS.

&&

LAT...LON 4257 9787 4235 9774 4224 9826 4240 9828  
TIME...MOT...LOC 0453Z 250DEG 30KT 4230 9824

\$\$

3. Tornado Warning (TOR).

WFUS53 KICT 262316  
TORICT  
KSC079-173-272000-  
/O.NEW.KICT.TO.W.0020.090426T2316Z-090427T0000Z/

BULLETIN - EAS ACTIVATION REQUESTED  
TORNADO WARNING  
NATIONAL WEATHER SERVICE WICHITA KS  
616 PM CDT SUN APR 26 2009

THE NATIONAL WEATHER SERVICE IN WICHITA HAS ISSUED A

- \* TORNADO WARNING FOR...  
NORTHERN SEDGWICK COUNTY IN SOUTH CENTRAL KANSAS...  
EASTERN HARVEY COUNTY IN SOUTH CENTRAL KANSAS...
- \* UNTIL 700 PM CDT.
- \* AT 614 PM CDT...NATIONAL WEATHER SERVICE METEOROLOGISTS WERE  
TRACKING A SEVERE THUNDERSTORM CAPABLE OF PRODUCING A TORNADO.  
THIS DANGEROUS STORM WAS LOCATED NEAR BENTLEY...OR 14 MILES  
SOUTHWEST OF NEWTON...MOVING NORTHEAST AT 40 MPH.
- \* LOCATIONS IN THE WARNING INCLUDE...  
BENTLEY...HALSTEAD...HESSTON...NEWTON...NORTH NEWTON...  
SEDGWICK...WALTON...NEWTON AIRPORT.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW. MOVE TO AN INTERIOR ROOM ON THE LOWEST FLOOR OF A  
STURDY BUILDING. AVOID WINDOWS. IF IN A MOBILE HOME...A VEHICLE OR  
OUTDOORS...MOVE TO THE CLOSEST SUBSTANTIAL SHELTER AND PROTECT  
YOURSELF FROM FLYING DEBRIS.

&&

LAT...LON 3817 9748 3817 9717 3795 9730 3785 9738  
3784 9757  
TIME...MOT...LOC 2316Z 206DEG 36KT 3789 9746

\$\$

**Tornado Emergency**

WFUS53 KDDC 050220  
TORDDC  
KSC097-050300-  
/O.NEW.KDDC.TO.W.0025.070505T0219Z-070505T0300Z/

BULLETIN - EAS ACTIVATION REQUESTED  
TORNADO WARNING  
NATIONAL WEATHER SERVICE DODGE CITY KS  
919 PM CDT FRI MAY 4 2007

THE NATIONAL WEATHER SERVICE IN DODGE CITY HAS ISSUED A

- \* TORNADO WARNING FOR...  
KIOWA COUNTY IN SOUTH CENTRAL KANSAS.
- \* UNTIL 1000 PM CDT
- \* AT 917 PM CDT...A CONFIRMED LARGE AND EXTREMELY DANGEROUS TORNADO  
WAS LOCATED 14 MILES SOUTH OF GREENSBURG...OR 11 MILES NORTHWEST OF  
WILMORE...MOVING NORTHEAST AT 25 MPH.

THIS IS A TORNADO EMERGENCY FOR GREENSBURG...TAKE COVER NOW.

- \* LOCATIONS IMPACTED INCLUDE...  
GREENSBURG...  
RURAL RESIDENCES OF EASTERN KIOWA COUNTY.

THIS INCLUDES HIGHWAY 54 BETWEEN MILE MARKERS 105 AND 115.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TO REPEAT...A LARGE...EXTREMELY DANGEROUS...AND POTENTIALLY DEADLY  
TORNADO IS ON THE GROUND. TO PROTECT YOUR LIFE...TAKE COVER NOW. MOVE  
TO AN INTERIOR ROOM ON THE LOWEST FLOOR OF A STURDY BUILDING. AVOID  
WINDOWS. IF IN A MOBILE HOME...A VEHICLE OR OUTDOORS...MOVE TO THE  
CLOSEST SUBSTANTIAL SHELTER AND PROTECT YOURSELF FROM FLYING DEBRIS.

&&

LAT...LON 3743 9942 3738 9932 3760 9901 3764 9936  
TIME...MOT...LOC 0219Z 226DEG 22KT 3740 9938

\$\$

4. **Severe Weather Statement (SVS).**

WWUS54 KFWD 271326  
SVSFWD

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE FORT WORTH TX  
826 AM CDT MON APR 27 2009

TXC309-271345-  
/O.CON.KFWD.SV.W.0108.000000T0000Z-090427T1345Z/  
MCLENNAN TX-  
826 AM CDT MON APR 27 2009

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 845 AM CDT  
FOR MCLENNAN COUNTY...

AT 825 AM CDT...NATIONAL WEATHER SERVICE METEOROLOGISTS WERE TRACKING  
A SEVERE THUNDERSTORM CAPABLE OF PRODUCING HAIL TO THE SIZE OF  
GOLFBALLS AND DAMAGING WINDS TO 65 MPH. THIS STORM WAS LOCATED 5 MILES  
SOUTHWEST OF MCGREGOR...MOVING NORTHEAST AT 40 MPH.

LOCATIONS IN THE WARNING INCLUDE...  
MCGREGOR...CRAWFORD...WOODWAY...HEWITT...BEVERLY HILLS...AND WACO.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

FOR YOUR PROTECTION MOVE TO A STURDY SHELTER UNTIL THE STORM HAS  
PASSED.

&&

LAT...LON 3133 9742 3154 9757 3178 9698 3156 9682  
TIME...MOT...LOC 1325Z 246DEG 34KT 3142 9743

\$\$

**Partial Cancellation**

WWUS53 KLMK 090857  
SVSLMK

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE LOUISVILLE KY  
457 AM EDT FRI OCT 9 2009

KYC061-085-090907-  
/O.CAN.KLMK.SV.W.0268.000000T0000Z-091009T0915Z/  
GRAYSON KY-EDMONSON KY-  
357 AM CDT FRI OCT 9 2009

...THE SEVERE THUNDERSTORM WARNING FOR NORTHERN EDMONSON AND

**NWSI 10-511 APRIL 19, 2010**

SOUTHEASTERN GRAYSON COUNTIES IS CANCELLED...

LAT...LON 3722 8586 3732 8614 3734 8608 3738 8607  
3738 8605 3740 8604 3769 8567 3770 8564  
3769 8546 3762 8549 3747 8563 3747 8565  
3743 8567

TIME...MOT...LOC 0857Z 261DEG 30KT 3773 8549 3736 8594

\$\$

KYC093-099-123-179-090915-  
/O.CON.KLMK.SV.W.0268.000000T0000Z-091009T0915Z/  
HARDIN KY-NELSON KY-LARUE KY-HART KY-  
457 AM EDT FRI OCT 9 2009

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 515 AM  
EDT/415 AM CDT/ FOR HART...LARUE...SOUTHERN NELSON AND SOUTHERN  
HARDIN COUNTIES...

AT 456 AM EDT /356 AM CDT/...NATIONAL WEATHER SERVICE METEOROLOGISTS  
WERE TRACKING A LINE OF SEVERE THUNDERSTORMS CAPABLE OF PRODUCING  
DAMAGING WINDS IN EXCESS OF 60 MPH. THESE STORMS WERE LOCATED FROM 7  
MILES NORTH OF NEW HOPE TO PRICEVILLE...AND MOVING EAST AT 35 MPH.

LOCATIONS IN THE WARNING INCLUDE...

NEW HOPE...MAGNOLIA...LINWOOD AND HOWARDSTOWN.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW IN A STURDY BUILDING AWAY FROM WINDOWS.

&&

LAT...LON 3722 8586 3732 8614 3734 8608 3738 8607  
3738 8605 3740 8604 3769 8567 3770 8564  
3769 8546 3762 8549 3747 8563 3747 8565  
3743 8567

TIME...MOT...LOC 0857Z 261DEG 30KT 3773 8549 3736 8594

\$\$

**Tornado Emergency**

WWUS53 KDDC 050242  
SVSDDC

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE DODGE CITY KS  
941 PM CDT FRI MAY 4 2007

KSC097-050300-  
/O.CON.KDDC.TO.W.0025.000000T0000Z-070505T0300Z/  
KIOWA KS-  
941 PM CDT FRI MAY 4 2007

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 1000 PM CDT FOR CENTRAL  
KIOWA COUNTY...

...A TORNADO EMERGENCY FOR GREENSBURG....

AT 937 PM CDT...STORM SPOTTERS WERE REPORTING A LARGE AND EXTREMELY  
DANGEROUS TORNADO. THIS TORNADO WAS LOCATED 5 MILES SOUTH OF  
GREENSBURG...MOVING NORTH AT 20 MPH.

A VIOLENT TORNADO WAS ON A DIRECT PATH FOR PORTIONS OF GREENSBURG...  
ESPECIALLY THE EASTERN PORTIONS OF TOWN. TAKE IMMEDIATE TORNADO  
PRECAUTIONS...THIS IS AN EMERGENCY SITUATION FOR GREENSBURG!!

A TORNADO WATCH REMAINS IN EFFECT UNTIL 200 AM CDT SATURDAY MORNING  
FOR SOUTHWESTERN KANSAS.

LAT...LON 3749 9936 3745 9929 3760 9901 3764 9936  
TIME...MOT...LOC 0241Z 190DEG 17KT 3747 9933

\$\$

5. Watch County Notification Message (WCN).

**(Initial Issuance)**

WWUS62 KFFC 100026  
WCNFFC

WATCH COUNTY NOTIFICATION FOR WATCH 768  
NATIONAL WEATHER SERVICE PEACHTREE CITY GA  
826 PM EDT FRI OCT 9 2009

GAC015-045-047-055-057-067-083-097-111-115-123-129-143-149-213-  
223-227-233-285-295-313-100400-  
/O.NEW.KFFC.SV.A.0768.091010T0026Z-091010T0400Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH  
768 IN EFFECT UNTIL MIDNIGHT EDT TONIGHT FOR THE FOLLOWING AREAS

IN GEORGIA THIS WATCH INCLUDES 21 COUNTIES

IN NORTH CENTRAL GEORGIA

CHEROKEE	COBB	DOUGLAS
FANNIN	GILMER	PICKENS

IN NORTHWEST GEORGIA

BARTOW	CARROLL	CATOOSA
CHATTOOGA	DADE	FLOYD
GORDON	HARALSON	MURRAY
PAULDING	POLK	WALKER
WHITFIELD		

IN WEST CENTRAL GEORGIA

HEARD	TROUP
-------	-------

THIS INCLUDES THE CITIES OF...BREMEN...CALHOUN...CARROLLTON...  
CARTERSVILLE...CEDARTOWN...CHATSWORTH...DALLAS...DALTON...  
DOUGLASVILLE...ELLIJAY...FORT OGLETHORPE...FRANKLIN...JASPER...  
MARIETTA...ROME...SUMMERVILLE...THOMASTON...TRENTON...  
WEST POINT AND WOODSTOCK.

\$\$

**(Clearing Counties - One Watch in Effect)**

WWUS62 KRAH 202223  
WCNRAH

WATCH COUNTY NOTIFICATION FOR WATCH 327

NWSI 10-511 APRIL 19, 2010

NATIONAL WEATHER SERVICE RALEIGH NC  
623 PM EDT TUE MAY 20 2008

NCC001-057-063-065-067-069-077-081-083-127-135-145-151-181-185-  
202330-  
/O.CAN.KRAH.SV.A.0327.000000T0000Z-080521T0000Z/

THE NATIONAL WEATHER SERVICE HAS CANCELLED SEVERE THUNDERSTORM  
WATCH 327 FOR THE FOLLOWING AREAS

IN NORTH CAROLINA THIS CANCELS 15 COUNTIES

IN CENTRAL NORTH CAROLINA

ALAMANCE	DAVIDSON	DURHAM
EDGEcombe	FORSYTH	FRANKLIN
GRANVILLE	GUILFORD	HALIFAX
NASH	ORANGE	PERSON
RANDOLPH	VANCE	WARREN

THIS INCLUDES THE CITIES OF...ASHEBORO...BURLINGTON...  
CHAPEL HILL...DURHAM...GREENSBORO...HENDERSON...HIGH POINT...  
LEXINGTON...LOUISBURG...NASHVILLE...OXFORD...ROANOKE RAPIDS...  
ROCKY MOUNT...ROXBORO...WARRENTON AND WINSTON-SALEM.

\$\$

NCC007-037-051-085-093-101-105-123-125-153-163-165-167-183-191-  
195-210000-  
/O.CON.KRAH.SV.A.0327.000000T0000Z-080521T0000Z/

SEVERE THUNDERSTORM WATCH 327 REMAINS VALID UNTIL 8 PM EDT THIS  
EVENING FOR THE FOLLOWING AREAS

IN NORTH CAROLINA THIS WATCH INCLUDES 16 COUNTIES

IN CENTRAL NORTH CAROLINA

ANSON	CHATHAM	CUMBERLAND
HARNETT	HOKE	JOHNSTON
LEE	MONTGOMERY	MOORE
RICHMOND	SAMPSON	SCOTLAND
STANLY	WAKE	WAYNE
WILSON		

THIS INCLUDES THE CITIES OF...ALBEMARLE...CLINTON...  
FAYETTEVILLE...GOLDSBORO...LAURINBURG...LILLINGTON...PITTSBORO...  
RAEFORD...RALEIGH...ROCKINGHAM...SANFORD...SMITHFIELD...  
SOUTHERN PINES...TROY...WADESBORO AND WILSON.

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**(Watch Expiration)**

WWUS62 KTAE 022202  
WCNTAE

WATCH COUNTY NOTIFICATION FOR WATCH 788  
NATIONAL WEATHER SERVICE TALLAHASSEE FL  
502 PM EST WED DEC 2 2009

FLC029-067-022315-  
/O.EXP.KTAE.TO.A.0788.000000T0000Z-091202T2200Z/

THE NATIONAL WEATHER SERVICE HAS ALLOWED TORNADO WATCH 788 TO  
EXPIRE FOR THE FOLLOWING AREAS

IN FLORIDA THIS ALLOWS TO EXPIRE 2 COUNTIES

IN NORTHWEST FLORIDA

DIXIE    LAFAYETTE

THIS INCLUDES THE CITIES OF...CROSS CITY...MAYO AND MIDWAY.

\$\$

GMZ765-022315-  
/O.EXP.KTAE.TO.A.0788.000000T0000Z-091202T2200Z/

THE NATIONAL WEATHER SERVICE HAS ALLOWED TORNADO WATCH 788 TO  
EXPIRE FOR THE FOLLOWING AREAS

THIS ALLOWS TO EXPIRE THE FOLLOWING ADJACENT COASTAL WATERS

COASTAL WATERS FROM SUWANNEE RIVER TO KEATON BEACH OUT 20 NM

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**(Second Watch Issued While First Watch Remains in Effect)**

WWUS64 KBMX 090509  
WCNBMX

WATCH COUNTY NOTIFICATION FOR WATCHES 798/800  
NATIONAL WEATHER SERVICE BIRMINGHAM AL  
1109 PM CST TUE DEC 8 2009

ALC001-011-015-017-019-021-027-029-037-051-055-081-085-087-101-  
111-113-115-121-123-091200-  
/O.NEW.KBMX.TO.A.0800.091209T0510Z-091209T1200Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED TORNADO WATCH 800 IN

**NWSI 10-511 APRIL 19, 2010**

EFFECT UNTIL 6 AM CST WEDNESDAY FOR THE FOLLOWING AREAS

IN ALABAMA THIS WATCH INCLUDES 20 COUNTIES

IN CENTRAL ALABAMA

AUTAUGA	CHILTON	COOSA
ELMORE	LOWNDES	MONTGOMERY
ST. CLAIR	TALLADEGA	

IN EAST CENTRAL ALABAMA

CALHOUN	CHAMBERS	CLAY
CLEBURNE	LEE	MACON
RANDOLPH	RUSSELL	TALLAPOOSA

IN NORTHEAST ALABAMA

CHEROKEE	ETOWAH
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IN SOUTHEAST ALABAMA

BULLOCK

THIS INCLUDES THE CITIES OF...ALEXANDER CITY...ANNISTON...  
ASHLAND...AUBURN...CENTRE...CLANTON...FORT DEPOSIT...GADSDEN...  
HEFLIN...JACKSONVILLE...LANETT...LINEVILLE...LOWNDESBORO...  
MILLBROOK...MONTGOMERY...MOODY...OPELIKA...PELL CITY...  
PHENIX CITY...PRATTVILLE...ROANOKE...ROCKFORD...SYLACAUGA...  
TALLADEGA...TUSKEGEE...UNION SPRINGS...VALLEY AND WETUMPKA.

\$\$

ALC007-009-047-057-063-065-073-075-091-093-105-107-117-119-125-  
127-133-090800-  
/O.CON.KBMX.TO.A.0798.000000T0000Z-091209T0800Z/

TORNADO WATCH 798 REMAINS VALID UNTIL 2 AM CST WEDNESDAY FOR THE  
FOLLOWING AREAS

IN ALABAMA THIS WATCH INCLUDES 17 COUNTIES

IN CENTRAL ALABAMA

BIBB	BLOUNT	DALLAS
JEFFERSON	PERRY	SHELBY
WALKER		

IN NORTHWEST ALABAMA

MARION	WINSTON
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IN WEST CENTRAL ALABAMA

NWSI 10-511 APRIL 19, 2010

FAYETTE	GREENE	HALE
LAMAR	MARENGO	PICKENS
SUMTER	TUSCALOOSA	

THIS INCLUDES THE CITIES OF...ALABASTER...ALICEVILLE...  
BIRMINGHAM...BRENT...CARROLLTON...CENTREVILLE...COLUMBIANA...  
DEMOPOLIS...EUTAW...FAYETTE...GREENSBORO...HALEYVILLE...  
HAMILTON...HOOVER...JASPER...LINDEN...LIVINGSTON...MARION...  
MOUNDVILLE...ONEONTA...PELHAM...SELMA...SULLIGENT...TUSCALOOSA...  
UNIONTOWN...VERNON AND YORK.

\$\$

**(New Watch Issued Which Replaces Two Old Watches)**

WWUS64 KOUN 291154  
WCNOUN

WATCH COUNTY NOTIFICATION FOR WATCHES 778/779/780  
NATIONAL WEATHER SERVICE NORMAN OK  
654 AM CDT THU OCT 29 2009

OKC005-013-019-029-049-063-069-085-095-099-123-125-133-291700-  
/O.CAN.KOUN.TO.A.0778.000000T0000Z-091029T1200Z/  
/O.NEW.KOUN.SV.A.0780.091029T1154Z-091029T1700Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH  
780 UNTIL NOON CDT TODAY WHICH REPLACES A PORTION OF TORNADO  
WATCH 778. THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS

IN OKLAHOMA THE NEW WATCH INCLUDES 13 COUNTIES

IN CENTRAL OKLAHOMA

POTTAWATOMIE

IN EAST CENTRAL OKLAHOMA

PONTOTOC	SEMINOLE
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IN SOUTHEAST OKLAHOMA

ATOKA	BRYAN	COAL
HUGHES	JOHNSTON	MARSHALL

IN SOUTHERN OKLAHOMA

CARTER	GARVIN	LOVE
MURRAY		

THIS INCLUDES THE CITIES OF...ADA...ARDMORE...ATOKA...COALGATE...

**NWSI 10-511 APRIL 19, 2010**

DURANT...HOLDENVILLE...MADILL...MARIETTA...PAULS VALLEY...  
SEMINOLE...SHAWNEE...SULPHUR AND TISHOMINGO.

\$\$

OKC081-291700-  
/O.CAN.KOUN.TO.A.0779.000000T0000Z-091029T1400Z/  
/O.NEW.KOUN.SV.A.0780.091029T1154Z-091029T1700Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH  
780 UNTIL NOON CDT TODAY WHICH REPLACES A PORTION OF TORNADO  
WATCH 779. THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS

IN OKLAHOMA THE NEW WATCH INCLUDES 1 COUNTY

IN CENTRAL OKLAHOMA

LINCOLN

THIS INCLUDES THE CITIES OF...CHANDLER.

\$\$

OKC027-051-067-083-087-109-137-TXC009-077-291300-  
/O.CAN.KOUN.TO.A.0779.000000T0000Z-091029T1400Z/

THE NATIONAL WEATHER SERVICE HAS CANCELLED TORNADO WATCH 779 FOR  
THE FOLLOWING AREAS

IN OKLAHOMA THIS CANCELS 7 COUNTIES

IN CENTRAL OKLAHOMA

CLEVELAND                      GRADY                      LOGAN  
MCCLAIN                         OKLAHOMA

IN SOUTHERN OKLAHOMA

JEFFERSON                      STEPHENS

IN TEXAS THIS CANCELS 2 COUNTIES

IN NORTHERN TEXAS

ARCHER                         CLAY

THIS INCLUDES THE CITIES OF...ARCHER CITY...CHICKASHA...DUNCAN...  
GUTHRIE...HENRIETTA...MOORE...NORMAN...OKLAHOMA CITY...  
PURCELL AND WAURIKA.

\$\$

OKC119-291700-

**NWSI 10-511 APRIL 19, 2010**

/O.NEW.KOUN.SV.A.0780.091029T1154Z-091029T1700Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH  
780 IN EFFECT UNTIL NOON CDT TODAY FOR THE FOLLOWING AREAS

IN OKLAHOMA THIS WATCH INCLUDES 1 COUNTY

IN CENTRAL OKLAHOMA

PAYNE

THIS INCLUDES THE CITIES OF...STILLWATER.

\$\$

**(Extending a Watch's Expiration Time for Selected Counties)**

WWUS62 KTAE 250444  
WCNTAE

WATCH COUNTY NOTIFICATION FOR WATCH 809  
NATIONAL WEATHER SERVICE TALLAHASSEE FL  
1144 PM EST THU DEC 24 2009

FLC005-013-045-063-250900-  
/O.EXT.KTAE.TO.A.0809.000000T0000Z-091225T0900Z/

TORNADO WATCH 809...PREVIOUSLY IN EFFECT UNTIL 2 AM EST /1 AM  
CST/ FRIDAY...IS NOW IN EFFECT UNTIL 4 AM EST /3 AM CST/ FRIDAY  
FOR THE FOLLOWING AREAS

IN FLORIDA THIS WATCH INCLUDES 4 COUNTIES

IN NORTH FLORIDA

BAY JACKSON CALHOUN GULF

THIS INCLUDES THE CITIES OF...BLOUNTSTOWN...CALLAWAY...  
GRACEVILLE...LYNN HAVEN...LYNN HAVEN...MALONE...MARIANNA...  
PANAMA CITY...PORT ST. JOE...SNEADS...UPPER GRAND LAGOON...  
WEWAHITCHKA AND WHITE CITY.

\$\$

GMZ750-250900-  
/O.EXT.KTAE.TO.A.0809.000000T0000Z-091225T0900Z/

TORNADO WATCH 809...PREVIOUSLY IN EFFECT UNTIL 2 AM EST FRIDAY...  
IS NOW IN EFFECT UNTIL 4 AM EST FRIDAY FOR THE FOLLOWING AREAS

**NWSI 10-511 APRIL 19, 2010**

THIS WATCH INCLUDES THE FOLLOWING ADJACENT COASTAL WATERS

COASTAL WATERS FROM APALACHICOLA TO DESTIN FL OUT 20 NM

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**(Extension in Area - Adding Counties)**

WWUS63 KGRB 250053  
WCNGRB

WATCH COUNTY NOTIFICATION FOR WATCH 180  
NATIONAL WEATHER SERVICE GREEN BAY WI  
753 PM CDT FRI APR 24 2009

WIC075-078-083-115-135-137-250400-  
/O.EXA.KGRB.SV.A.0180.000000T0000Z-090425T0400Z/

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM  
WATCH 180 TO INCLUDE THE FOLLOWING AREAS UNTIL 11 PM CDT THIS  
EVENING

IN WISCONSIN THIS WATCH INCLUDES 6 COUNTIES

IN CENTRAL WISCONSIN

WAUSHARA

IN NORTHEAST WISCONSIN

MARINETTE	MENOMINEE	OCONTO
SHAWANO	WAUPACA	

THIS INCLUDES THE CITIES OF...CLINTONVILLE...KESHENA...  
MARINETTE AND WAUTOMA.

\$\$

WIC037-041-067-069-073-085-097-125-141-250400-  
/O.CON.KGRB.SV.A.0180.000000T0000Z-090425T0400Z/

SEVERE THUNDERSTORM WATCH 180 REMAINS VALID UNTIL 11 PM CDT THIS  
EVENING FOR THE FOLLOWING AREAS

IN WISCONSIN THIS WATCH INCLUDES 9 COUNTIES

IN CENTRAL WISCONSIN

MARATHON	PORTAGE	WOOD
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IN NORTH CENTRAL WISCONSIN

**NWSI 10-511 APRIL 19, 2010**

LANGLADE  
VILAS

LINCOLN

ONEIDA

IN NORTHEAST WISCONSIN

FLORENCE

FOREST

THIS INCLUDES THE CITIES OF...ANTIGO...CRANDON...EAGLE RIVER...  
MARSHFIELD...RHINELANDER...STEVENS POINT...TOMAHAWK...  
WAUSAU AND WISCONSIN RAPIDS.

\$\$

**(Extension in Expiration Time and Expansion in Area)**

WWUS63 KMKX 100446  
WCNMKX

WATCH COUNTY NOTIFICATION FOR WATCH 689  
NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN WI  
1146 PM CDT SUN AUG 9 2009

WIC045-065-100600-  
/O.EXT.KMKX.SV.A.0689.000000T0000Z-090810T0700Z/

SEVERE THUNDERSTORM WATCH 689...PREVIOUSLY IN EFFECT UNTIL  
MIDNIGHT CDT MONDAY...IS NOW IN EFFECT UNTIL 2 AM CDT MONDAY  
FOR THE FOLLOWING AREAS

IN WISCONSIN THIS WATCH INCLUDES 2 COUNTIES

IN SOUTH CENTRAL WISCONSIN

GREEN

LAFAYETTE

THIS INCLUDES THE CITIES OF...BRODHEAD...DARLINGTON AND MONROE.

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WIC055-059-079-101-127-133-100700-  
/O.EXB.KMKX.SV.A.0689.090810T0500Z-090810T0700Z/

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM  
WATCH 689 TO INCLUDE THE FOLLOWING AREAS UNTIL 2 AM CDT MONDAY

IN WISCONSIN THIS WATCH INCLUDES 6 COUNTIES

IN SOUTHEAST WISCONSIN

JEFFERSON  
RACINE

KENOSHA  
WALWORTH

MILWAUKEE  
WAUKESHA

THIS INCLUDES THE CITIES OF...ELKHORN...JEFFERSON...KENOSHA...  
LAKE GENEVA...MILWAUKEE...RACINE AND WAUKESHA.

**NWSI 10-511 APRIL 19, 2010**

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LMZ645-646-673-675-100700-  
/O.EXB.KMKX.SV.A.0689.090810T0500Z-090810T0700Z/

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM  
WATCH 689 TO INCLUDE THE FOLLOWING AREAS UNTIL 2 AM CDT MONDAY

THIS WATCH INCLUDES THE FOLLOWING ADJACENT COASTAL WATERS

NORTH POINT LIGHT TO WIND POINT WI  
WIND POINT WI TO WINTHROP HARBOR IL  
LAKE MICHIGAN FROM NORTH POINT LIGHT TO WIND POINT WI 5NM OFF  
SHORE TO MID LAKE  
LAKE MICHIGAN FROM WIND POINT WI TO WINTHROP HARBOR IL 5NM OFF  
SHORE TO MID LAKE

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