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Service Change Notice 19-43 Updated
National Weather Service Headquarters Silver Spring MD
915 AM EDT Tue Jun 11 2019

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPORT
 Other NWS Partners and NWS Employees

From: Eli Jacks
 Chief, Forecast Services Division

Subject: Updated: Implementation of 360 character NWS messages
 English and Spanish Wireless Emergency Alerts (WEA) at
 a date to be determined technical note for NWS CAP users

Updated to reflect that 360 character and Spanish language WEA messages will be implemented on a date to be determined and to add a note for NWS Common Alerting Protocol (CAP) users about processing CAP messages that support Spanish language WEA.

Beginning in May 2019, Federal Communications Commission (FCC) rule changes allow for the expansion of WEA from the existing maximum of 90 characters to a maximum of 360 characters. These rule changes also allow for transmission of Spanish language WEA messages. NWS solicited public feedback on a proposed expansion of weather warnings to the new 360 character maximum and the proposed content of the NWS messages carried by WEA in English and Spanish and has finalized those messages.

WEA is a joint effort between the Federal Communications Commission, the Federal Emergency Management Agency (FEMA) and the wireless industry. WEA allows emergency alerting authorities to geographically target emergency messages to mobile devices, primarily cell phones. WEA message content is contained in CAP formatted messages transmitted to FEMA's Integrated Public Alert and Warning System (IPAWS). IPAWS routes the WEA content to wireless carriers who transmit it to cell phones in the warning area.

Alerting partners have been notified that FEMA needs additional time to complete software development and testing of IPAWS before the 360 character English WEA messages and Spanish language WEA messages can be implemented. See the following public notice by the FCC regarding the delay.
<https://ecfsapi.fcc.gov/file/06070682323846/DA-19-534A1.pdf>

FEMA has not yet established an implementation date. Once FEMA sets an implementation date, NWS will issue an updated Service Change Notice.

Please note that the revised 90 character English WEA messages, based upon social science and public feedback, will be implemented by the NWS as planned on or about June 17, 2019.

Users of NWS CAP messages should note that Spanish language WEA messages are enabled by the addition of a second information block in NWS CAP messages when WEA activation is expected. Thus, NWS CAP users should ensure systems have no issue handling a second information block. CAP users should also note the addition of information within NWS CAP messages supporting WEA. For technical details, see <https://www.weather.gov/documentation/tb-alerts-CAP-Supporting-360-Character-and-Spanish-WEA>

The warning areas alerted by WEA are designated as follows:

- Via a polygon, as defined using latitude and longitude coordinates
- Within a radius from a point
- On a county basis

The type of designation used is defined via the CAP message associated with specific hazards. More information about CAP and access to current CAP messages can be found here:

<https://alerts.weather.gov>

The expansion of WEA messages up to 360 characters allows the NWS to provide wireless customers with more detailed and actionable information. The NWS will provide messages to WEA for hazards that are believed to be life-threatening and have consequences that can be mitigated or minimized by taking immediate action.

The language used in these expanded messages in both English and Spanish can be found via the following link:

<https://www.weather.gov/wrn/wea360>

The NWS will continue to alert snow squall warnings via WEA using 90 character English messages until due diligence can be performed to determine the appropriate expanded content in English and Spanish of this relatively new NWS warning. Public notification will be provided if the NWS expands WEA messages for Snow Squall Warnings to include longer messages and/or Spanish messages.

Also, the length (360 characters or 90 characters) and language (English or Spanish) of the message received on a device once these changes go into effect is dependent on the wireless network and the language setting of the device. Prior to implementation, the NWS will continue to send 90 character English messages to alert the public of life-threatening hazards.

NWS Spanish messages slated for implementation do not contain accented Spanish characters because proper dissemination of those characters could not be confirmed. Given this constraint

as well as established character limits, special consideration was made to ensure the NWS Spanish messages are understandable and consistent with the content of English messages. NWS will implement messages with properly accented characters when it is shown that those messages can be properly disseminated.

The composition of the NWS WEA messages for life-threatening hazards will be reviewed continuously and updated based on social science research, operational service assessments, and the continuous study of public feedback associated with all NWS products and services. Public notification is not anticipated every time a modification is made to an NWS WEA message(s). The content of WEA messages may be periodically revised to provide for the clearest communications to the public of life-threatening weather hazards and recommended safety actions.

Additional information about this change can be found at:
https://nws.weather.gov/products/PDD/WEA_360_PDD_OPL.pdf

Further questions on the use of WEA by the NWS should be directed to:

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National Service Changes Notices are online at:
<https://www.weather.gov/notification>

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