

NWS Hazard Simplification (Haz Simp) Project Update

May 2023



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Consolidation and Reformatting Overview

Product Consolidation

Product Reformatting



Three Winter Weather Advisories to one

Three Winter Storm Watches to one



Four Small Craft Advisories to one

Flood

- Five Flood Advisories to one
- In most cases, Flash Flood Watch and Flood Watch consolidated to Flood Watch

Non-Precipitation

- Wind Chill product suite consolidated with Extreme Cold product suite
- Excessive Heat Watch and Warning rename to "Extreme" Heat
- Hard Freeze Watch and Warning removed

"What, Where, When, Impacts" (3W)

Winter Storm Watch

WHAT ... Blizzard conditions possible. Winds gusting to 50 to 60 mph could cause whiteout conditions.

WHERE . . . Plymouth County

WHEN...Until 8 PM EDT this evening.

IMPACTS...Travel could be dangerous. Wet snow and strong winds could result in power outages and tree damage.

Impact-Based Warnings (IBW)

Flash Flood Warning

HAZARD... Heavy rain producing flash flooding.

SOURCE...County officials and radar estimates.

IMPACT...The Howard 911 Center reported flooding on Main Street in Ellicott City. Please seek higher ground immediately.

FLASH FLOOD...RADAR INDICATED FLASH FLOOD DAMAGE THREAT...CONSIDERABLE Damage threat tags with WEA trigger for highest levels

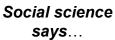












Advisory term confusing

Examples:

SNOW: Hazardous travel in snow and blowing snow from 9AM to 8PM

HEAT: Heat index values up to 100F until 4PM

NWS Leadership Decisions

November 2020: Replace Advisory & SPS with plain language headlines

November 2021: Lead new headlines with HAZARD IN ALL CAPS



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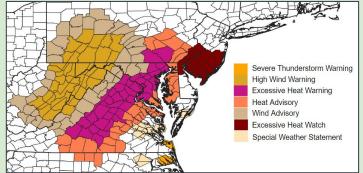


Conveying plain language in our displays without introducing a third term



- Hazardous Weather Outlook
- Heat Advisory in effect from July 28, 12:00 PM EDT until July 28, 08:00 PM EDT













Plain Language - Example Headlines

SNOW: Hazardous travel in snow and blowing snow from 9AM to 8PM

HEAT: Heat index values up to 100F until 4PM

HIGH SURF: Unusually high surf from 6AM to 12PM

FLOOD: Ponding of water in low-lying and poor drainage areas from 3PM to 8PM

STRONG THUNDERSTORM: Gusty winds and hail will impact XX county through 2PM

FIRE WEATHER CONDITIONS: Gusty winds will cause fires that are difficult to control from TIME 1 to TIME 2

BLOWING SNOW, ICE, WINTRY MIX, FREEZING FOG, COLD, FROST, POOR VISIBILITY, DUST, BLOWING DUST, ASHFALL, WIND, LAKE WIND, FREEZING SPRAY, HIGH WATER, LOW WATER

















Winter Weather Advisory transition To.... **Plain Language** ÷ O.NEW.KBMX.WW.Y.0001.200208T1000Z-200208T1700Z/ /O.NEW.KBMX.WW.S.0001.200208T1000Z-200208T1700Z/ **VTEC** Cherokee-Cherokee-Including the city of Centre Including the city of Centre 815 PM CST Fri Feb 7 2020 815 PM CST Fri Feb 7 2020 Plain language headline ...WINTER WEATHER ADVISORY IN EFFECT FROM 4 AM TO 11 AM CST ... SNOW: Hazardous travel from 4 AM to 11 AM CST Saturday... SATURDAY... * WHAT...Total snow accumulations of up to one inch. * WHAT...Total snow accumulations of up to one inch. * WHERE...Northern Cherokee County. * WHERE...Northern Cherokee County. **Bullet format** * WHEN...From 4 AM to 11 AM CST Saturday. * WHEN...From 4 AM to 11 AM CST Saturday. * IMPACTS...Plan on slippery road conditions. * IMPACTS...Plan on slippery road conditions. Special Weather Statement (SPS) transition To... Plain Language Now with North Snowy Range Foothills-O.NEW.KCYS.WI.S.0001.190923T0543Z-190923T0000Z/ Including the cities of Arlington and Elk Mountain **VTEC** North Snowy Range Foothills-1143 PM MDT Mon Sep 23 2019 Including the cities of Arlington and Elk Mountain 1143 PM MDT Mon Sep 23 2019 Plain language & time stamp ...Strong westerly winds until this evening... ...WIND: Strong westerly winds 7 AM to 6 PM CST Tuesday... Strong westerly winds will pick up this morning by 7 AM and continue through the day, finally diminishing by 6 PM. * WHAT...Sustained winds of 30 mph with gusts of Sustained winds around 30 mph with gusts of 45 to 50 mph are 45 to 50 mph. possible. Now with "3W" * WHERE . . . North Snowy Range Foothills . bullets! * WHEN ... Tuesday 7 AM to 6 PM. * IMPACTS...High profile vehicles will be most impacted. Department of Commerce // National Oceanic and Atmospheric Administration // 5





(Valid Time Event Code/Product Identifier Label)

Strategy for **Zone-based** Advisories and SPS':

- Advisory example: Winter Weather Advisory (WW.Y) transitions to WW.S but remains in the WSW
- SPS example: Dense fog SPS becomes FG.S in NPW

Strategy for *Polygon-based* Advisories and SPS':

Current Product	PIL	VTEC Existing	VTEC New
Winter use of SPS (e.g. heavy band of snow)	SPS	None	WH.S*
Dust Advisory	DSW	DS.Y	DS.S
Flood Advisory (Both Areal & Forecast Points)	FLS	FA.Y & FL.Y	FA.S & FL.S
Severe use of SPS (e.g. thunderstorm)	SPS	None	ST.S*
Marine Weather Statement	MWS	None	MA.S

^{*} WH and ST phenomenon codes will be introduced

SPS will only be used for VTEC-enabled Strong Thunderstorm and Winter Hazard in IBW format











Currently, NWS uses "Statement" products to update/expire/cancel short-fuse warnings.

Haz Simp will include a change to this practice:

- Follow-up information for these warnings will be issued using the same product (within the same PIL) as the initial warning.
- Use of the following Statements as update tools will be discontinued:
 - Severe Weather Statement (SVS) updates Tornado Warning, Severe Thunderstorm Warning, and Extreme Wind Warning
 - Flood Statement (FLS) updates the Flood Warning
 - Flash Flood Statement (FFS) updates the Flash Flood Warning
 - Marine Weather Statement (MWS) updates the Special Marine Warning

Example: A Tornado Warning follow-up will be issued as a TOR, not an SVS.

NOTE: This change will NOT impact the way Warnings and their updates go out on EAS and WEA.







Updating Warnings Example



WUUS52 KCHS 171822

SVRCHS

GAC267-171915-

/O.NEW.KCHS.SV.W.0110.191217T1822Z-191217T1915Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED Severe Thunderstorm Warning National Weather Service Charleston SC 122 PM EST Tue Dec 17 2019

The National Weather Service in Charleston has issued a

* Severe Thunderstorm Warning for portions of... Tattnall County in southeastern Georgia...

Current: Warning update



SVSCHS

Severe Weather Statement

National Weather Service Charleston SC 145 PM EST Tue Dec 17 2019

GAC267-171915-

/O.CON.KCHS.SV.W.0110.000000T0000Z-191217T1915Z/

145 PM EST Tue Dec 17 2019

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 215 PM EST FOR TATTNALL COUNTY...

At 144 PM EST, a severe thunderstorm was located over Mendes, moving northeast at $40\ \mathrm{mph}$.

Future: Warning update

WUUS52 KCHS 171845

SVRCHS

Severe Thunderstorm Warning

National Weather Service Charleston SC 145 PM EST Tue Dec 17 2019

GAC267-171915-

/O.CON.KCHS.SV.W.0110.000000T0000Z-191217T1915Z/

Tattnall GA-

145 PM EST Tue Dec 17 2019

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 215 PM ESTFOR TATTNALL COUNTY...

At 144 PM EST, a severe thunderstorm was located over Mendes, moving northeast at 40 mph.

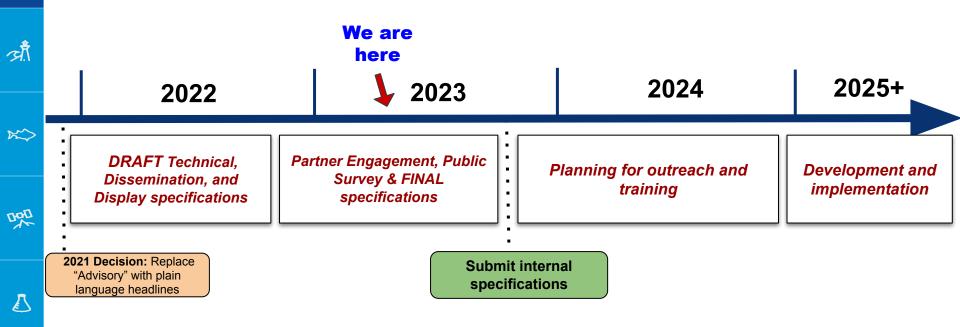








The Path Forward Towards Implementation





Note: Above timeline is according to calendar year



