

# NWS Hazard Simplification (Haz Simp) Project Update

# May 2023



# **Consolidation and Reformatting Overview**

## **Product Consolidation**

## **Product Reformatting**

#### **Winter**

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- Three Winter Weather Advisories to one
- Three Winter Storm Watches to one

#### **Marine**

• 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.

<u>IMPACTS</u>...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.

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

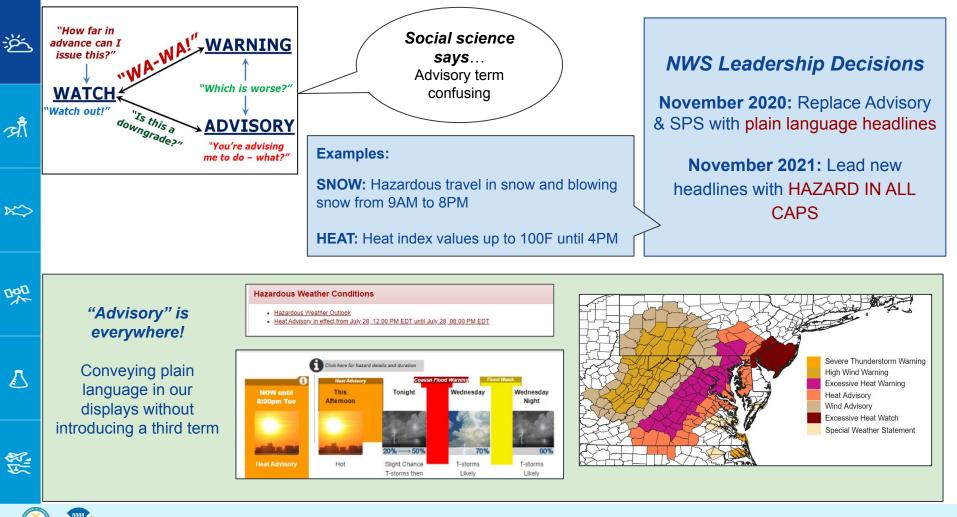
FLASH FLOOD...RADAR INDICATED FLASH FLOOD DAMAGE THREAT...CONSIDERABLE Damage threat tags with WEA trigger for highest levels

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

**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

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

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

**Plain Language - Example Headlines** 

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

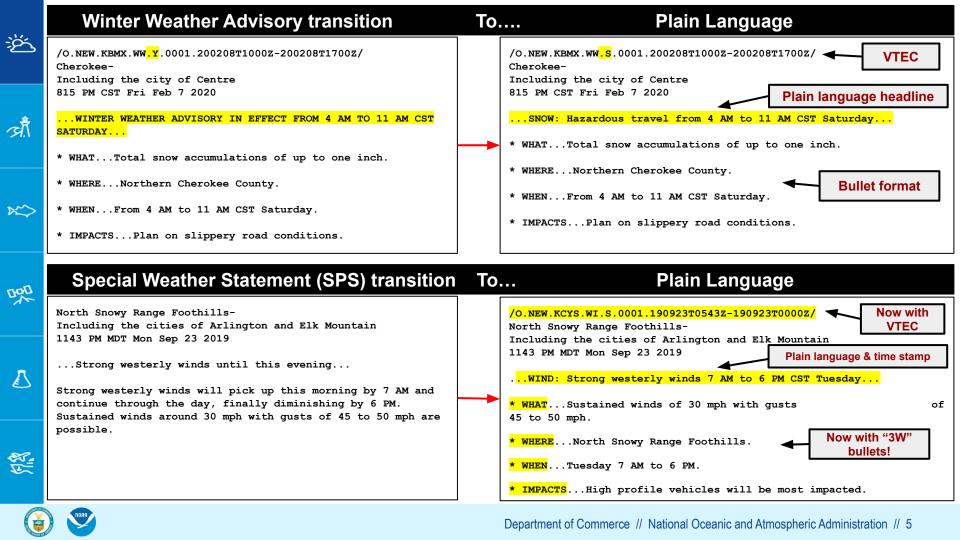














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# **VTEC/PIL Structure**

(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



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# **Updating Warnings with Warnings**

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.

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# Updating Warnings Example

## **Initial Warning**

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...

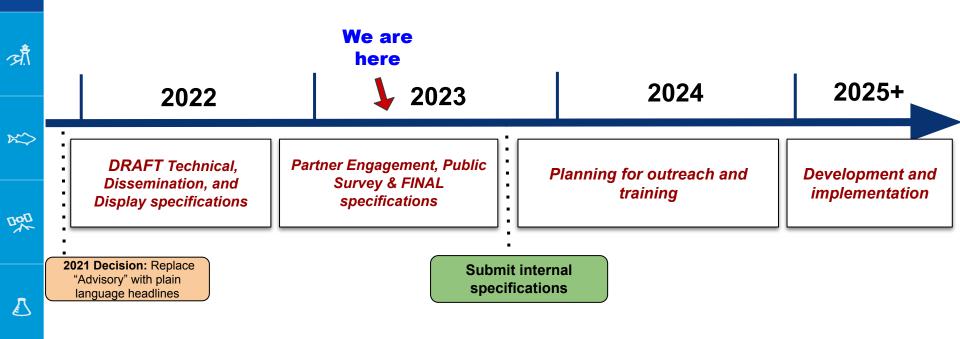
## **Current:** Warning update

## Future: Warning update

WWUS52 KCHS 171845	WUUS52 KCHS 171845
<mark>SVSCHS</mark>	SVRCHS
<mark>Severe Weather Statement</mark>	Severe Thunderstorm Warning
National Weather Service Charleston SC	National Weather Service Charleston SC
145 PM EST Tue Dec 17 2019	145 PM EST Tue Dec 17 2019
GAC267-171915-	GAC267-171915-
/O.CON.KCHS.SV.W.0110.00000T0000Z-191217T1915Z/	/O.CON.KCHS.SV.W.0110.000000T0000Z-191217T1915Z/
Tattnall GA-	Tattnall GA-
145 PM EST Tue Dec 17 2019	145 PM EST Tue Dec 17 2019
A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 215 PM EST FOR TATTNALL COUNTY	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.	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



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