Paperwork Reduction Act

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0342. Without this approval, we could not conduct this survey. Public reporting for this information collection is estimated to be approximately 1-5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection, including suggestions for reducing this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the National Weather Service/Analyze, Forecast and Support Office, Elliott.Jacks@noaa.gov.

Survey Instrument

Introduction

For decades, the National Weather Service (NWS) has used the "Watch, Warning, and Advisory" (WWA) system to make users aware of expected weather and water hazards. Social science research with NWS meteorologists, core partners, and the public has found that these three WWA terms can be misunderstood and/or confused. Based on this research, we are now proposing changes to the WWA system. In this survey, we're asking for your feedback on the proposed changes.

Thank you for taking the time to complete our survey.

Questions 1 and 2 will be asked for each of the surveys. Questions 3-5 will vary slightly based on the specific hazard and contain a graphical example prior to the question.

Demographics

Before we begin the survey, we'd like to ask you a few questions about yourself. These answers will help us ensure that we capture the perspectives of a broad range of people from different backgrounds. If you feel uncomfortable answering any particular question, you may skip it.

1. What is your affiliation?

- Individual
- Student/teacher K-12
- University student
- University faculty/staff
- Other research institution
- Business/industry
- NOAA
- Other Federal government
- News media
- State/local government
- Other _____

2. Where are you located?

Drop-down of all US States and territories provided

Core Survey Covering Most Hazards:

The following two questions would be used for the core survey that would cover the majority of hazards (excepting the ones listed below this section that require specific questions). In addition to the core survey, question #3 below would be used during partner webinars as a poll question.

Current **Proposed** WSWLWX WSWLWX WINTER WEATHER MESSAGE URGENT -Winter Weather Statement National Weather Service Baltimore MD/Washington DC National Weather Service Baltimore MD/Washington DC 207 PM EST Wed Jan 3 2018 207 PM EST Wed Jan 3 2018 MDZ011-013-014-016-507-508-VAZ057-040500-MDZ011-013-014-016-507-508-VAZ057-040500-/O.EXA.KLWX.WW.Y.0001.180104T0300Z-180104T1600Z/ /O.EXA.KLWX.WW.S.0001.180104T0300Z-180104T1600Z/ Southern Baltimore-Prince Georges-Anne Arundel-Charles-Southern Baltimore-Prince Georges-Anne Arundel-Charles-Northwest Harford-Southeast Harford-King George-Northwest Harford-Southeast Harford-King George-207 PM EST Wed Jan 3 2018 207 PM EST Wed Jan 3 2018 ...WINTER WEATHER ADVISORY IN EFFECT FROM 10 PM THIS ...2 to 4 inches of snow this evening into tomorrow EVENING TO 11 AM EST THURSDAY.. morning... * WHAT...Total snow accumulations of 2 to 4 inches are * WHAT...Total snow accumulations of 2 to 4 inches are expected. expected. * WHERE...Portions of central, northern and southern * WHERE...Portions of central, northern and southern Maryland and central Virginia. Maryland and central Virginia. * WHEN...From 10 PM this evening to 11 AM EST Thursday. * WHEN...From 10 PM this evening to 11 AM EST Thursday. * IMPACTS...Snow will quickly stick on roads and * IMPACTS...Snow will quickly stick on roads and sidewalks, making the Thursday morning commute sidewalks, making the Thursday morning commute dangerous. Visibility will be reduced to under 1 mile dangerous. Visibility will be reduced to under 1 mile at times in snow. Bitterly cold conditions will follow for at times in snow. Bitterly cold conditions will follow for late Thursday through the weekend causing snow to late Thursday through the weekend causing snow to remain remain on untreated surfaces. on untreated surfaces

Sample Winter product example to be used in the survey:

3. Please share your level of agreement/disagreement with the following statement:

NWS should discontinue the use of Advisory, Special Weather Statement (SPS), and Short Term Forecast (NOW) terms in favor of a plain language headline.

- Strongly agree
- Agree ٠
- Neither disagree or agree •
- Disagree •
- Strongly disagree •
- I don't know •

4. Do you have any suggestions as to how NWS can improve this proposal?

Sample ENSO Alert headline exal	mples to be used in the survey.

<u>Set A (Current)</u>	<u>Set B (Proposed)</u>
ENSO Alert System Status: El Niño Advisory	ENSO Alert System Status: El Niño In Effect
Synopsis : Weak El Niño conditions have started and are expected to continue through the Northern Hemisphere spring 2019 (~55% chance).	 <u>Synopsis</u> : Weak El Niño conditions have started are expected to continue through the Northern Hemisphere spring 2019 (~55% chance).
ENSO Alert System Status: Final El Niño Advisory	ENSO Alert System Status: El Niño Ended
Synopsis : El Niño conditions have ended and transitioned to ENSO-neutral, which is most likely to continue through Northern Hemisphere winter 2019-20 (50-55% chance).	 Synopsis : El Niño conditions have ended and transitioned to ENSO-neutral, which is most likely to continue through Northern Hemisphere winter 2019-20 (50-55% chance).

- 3. Which set of headlines do you prefer?
 - Set A (Current)
 - Set B (Proposed)
 - I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

High	Surf	A	dvisorv	survey:
111511	Juii	1 1	uvioui y	our vey.

Sample High Surf Advisory example to be used in the survey:

Current	Proposed
Coastal Hazard Message	Coastal Hazard Message
National Weather Service Los Angeles/Oxnard CA	National Weather Service Los Angeles/Oxnard CA
306 AM PST Fri Jan 10 2020	306 AM PST Fri Jan 10 2020
CAZ034-035-101915-	CAZ034-035-101915-
/O.CON.KLOX.SU <mark>.Y</mark> .0003.00000000002-200111T0400Z/	/O.CON.KLOX.SU.S.0003.000000000002-20011104002/
San Luis Obispo County Central Coast-	San Luis Obispo County Central Coast-
Santa Barbara County Central Coast-	Santa Barbara County Central Coast-
306 AM PST Fri Jan 10 2020	306 AM PST Fri Jan 10 2020
HIGH SURF ADVISORY REMAINS IN EFFECT UNTIL 8 FM PST THIS RUENING	HIGH SURF CONDITIONS REMAIN UNTIL 8 PM PST THIS EVENING
	* WHATBreaking waves of 8-10 feet with dangerous rip currents.
* WHATBreaking waves of 8-10 feet with dangerous rip currents.	
	* WHEREWest-facing beaches of the San Luis Obispo County and
* WHEREWest-facing beaches of the San Luis Obispo County and	Santa Barbara County Central Coast.
Santa Barbara County Central Coast.	
	* WHENUntil 8 PM PST this evening.
* WHENUntil 8 PM PST this evening.	
	* IMPACTSThere is an increased risk for ocean drowning. Rip
* IMPACTSThere is an increased risk for ocean drowning. Rip	currents can pull swimmers and surfers out to sea. Large
currents can pull swimmers and surfers out to sea. Large	breaking waves can cause injury, wash people off beaches and
breaking waves can cause injury, wash people off beaches and	rocks, and capsize small boats near shore.
rocks, and capsize small boats near shore.	
	* ADDITIONAL DETAILSA high tide near 6.5 feet will occur
* ADDITIONAL DETAILSA high tide near 6.5 feet will occur around 8 am this morning.	around 8 am this morning.
	PRECAUTIONARY/PREPAREDNESS ACTIONS
PRECAUTIONARY/PREPAREDNESS ACTIONS	
	Remain out of the water due to dangerous surf conditions, or stay
Remain out of the water due to dangerous surf conditions, or stay near occupied lifeguard towers. Rock jetties can be deadly in such conditions, stay off the rocks.	<pre>near occupied lifeguard towers. Rock jetties can be deadly in such conditions, stay off the rocks.</pre>

3. Please share your level of agreement/disagreement with the following statement:

NWS should transition High Surf Advisory to a plain language headline.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Small Craft Advisory survey:

3. Please share your level of agreement/disagreement with the following statement:

NWS should rename its Small Craft Advisory to Small Craft Warning as part of this proposed change.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Tsunami survey:

	<u>Cu</u>	rrent	Option A
BULLETIN			BULLETIN
Tsunami Message	Number 1		Tsunami Message Number 1
	unami Warning Cen	iter Palmer AK	NWS National Tsunami Warning Center Palmer AK
1114 AM PDT Fri	Jul 8 2016		1114 AM PDT Fri Jul 8 2016
AKZ187-195-191-	091944-		
	Y.0086.160708T181	4z-000000T0000z/	AKZ187-195-191-081944-
		ling Samalga Pass, Alaska	/T.NEW.PAAQ.MH.W.0086.160708T1814Z-000000T0000Z/
	Nikolski) to Att	cu, Alaska	Coastal areas between and including Samalga Pass, Alaska
1114 AM PDT Fri	. Jul 8 2016		(30 miles SW of Nikolski) to Attu, Alaska
	WIGODY TO NOW TH	EFFECT WHICH INCLUDES THE	1114 AM PDT Fri Jul 8 2020
		SAMALGA PASS ALASKA /WHICH IS	
		SKI/ TO ATTU ALASKA	A TSUNAMI WARNING FOR STRONG CURRENTS OR INCREASED WATER LEVELS OF
			TO 1 METER NEAR SHORE IS NOW IN EFFECT WHICH INCLUDES THE COASTAL AREAS
		al area, move off the beach and out	OF ALASKA FROM SAMALGA PASS ALASKA /WHICH IS LOCATED 30 MILES SW OF
of harbors and m	marinas.		NIKOLSKI/ TO ATTU ALASKA
Tsunami advisor	ies mean that a t	sunami capable of producing strong	If you are located in this coastal area, move off the beach and out of
		persons in or very near the water is	harbors and marinas.
		. Areas in the advisory should not	
		sunamis are a series of waves	Tsunami warnings of this level mean that a tsunami capable of producing
dangerous many not be the large		al arrival time. The first wave may	strong currents, anomalous waves, and/or higher than average water leve
not be the rarg	jest.		that can be dangerous to persons in or very near the water is expected
At 1109 AM Paci:	fic Daylight Time	on July 8 an earthquake with	or is already occurring. Damage to boats and harbors is also possible.
		ed 90 miles southeast of	Areas in the warning area should not expect widespread inundation,
Petropavlovsk K	(amchatka.		although low-level inundation is possible.
Retirected terres	mi stant timos fo	or selected sites are;	At 1109 AM Pacific Daylight Time on July 8 an earthquake with
Escimated tsuna	Ini Start times it	Selected Sites ale,	preliminary magnitude 8.2 occurred 90 miles southeast of Petropavlovsk
Shemya	Alaska	1130 AM. AKDT. July 8.	Kamchatka.
Adak	Alaska	1230 PM. AKDT. July 8.	Estimated tsunami start times for selected sites are;
Saint Paul	Alaska	145 PM. AKDT. July 8.	
			Shemya Alaska 1130 AM. AKDT. July 8.
			Adak Alaska 1230 PM. AKDT. July 8.
			Saint Paul Alaska 145 PM. AKDT. July 8.
	Optio	on B	Option C
			Option o
BULLETIN			BULLETIN
Marine Hazard M	Message Number 1		BULLETIN Tsunami Message Number 1
Marine Hazard M	Message Number 1 sunami Warning Cen		BULLETIN
Marine Hazard M NWS National Ts 1114 AM PDT Fri	Message Number 1 sunami Warning Cen i Jul 8 2020		BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191-	Message Number 1 sunami Warning Cen i Jul 8 2020 -081944-	iter Palmer AK	BULLETIN TSunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944-
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MH.	Message Number 1 sunami Warning Cen i Jul 8 2020 -081944- .W.0086.160708T181	iter Palmer AK 142-000000000002/	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MH. Coastal areas b	Message Number 1 sunami Warning Cen i Jul 8 2020 -081944- W.0086.160708T181 between and includ	iter Palmer AK 14z-000000700002/ iing Samalga Pass, Alaska	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MH. Coastal areas b	<pre>4essage Number 1 sunami Warning Cen i Jul 8 2020 -081944- w.0086.160708T181 eetween and includ f Nikolski) to Att</pre>	iter Palmer AK 14z-000000700002/ iing Samalga Pass, Alaska	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MM. Coastal areas b (30 miles SW of 1114 AM PDT Fri	4essage Number 1 sunami Warning Cen i Jul 8 2020 -081944- W.0086.160708T181 setween and includ E Nikolski) to Att i Jul 8 2020	iter Palmer AK 14Z-000000T0000Z/ iing Samalga Pass, Alaska zu, Alaska	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MH. Coastal areas b (30 miles SW of 1114 AM PDT Fri A MARINE HAZ	Message Number 1 sunami Warning Cen i Jul 8 2020 -081944- w.0086.160708T181 between and includ F Nikolski) to Att i Jul 8 2020 ZARD WARNING FOR S	iter Palmer AK 14Z-000000T0000Z/ Hing Samalga Pass, Alaska zu, Alaska STRONG CURRENTS OR INCREASED WATER	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T18142-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020 A COASTAL AND MARINE TSUNAMI WARNING FOR STRONG CURRENTS, OR HIGHER
Marine Hazard M NWS National TS 1114 AM PDT Fri AKZ187-195-191- /T.NEW.PAAQ.MM. Coastal areas b (30 miles SW of 1114 AM PDT Fri A MARINE HAZ LEVELS OF .3 TO	4essage Number 1 sunami Warning Cen i Jul 8 2020 -081944- w.0086.160708T181 between and includ E Nikolski) to Att i Jul 8 2020 ZARD WARNING FOR S 0.1 METER NEAR SHC	iter Palmer AK 14Z-00000070000Z/ Hing Samalga Pass, Alaska u, Alaska STRONG CURRENTS OR INCREASED WATER DRE IS NOW IN EFFECT FOR THE COASTAL	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAQ.TS.W.0086.160708T1814Z-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020 A COASTAL AND MARINE TSUNAMI WARNING FOR STRONG CURRENTS, OR HIGHER THAN AVERAGE WATER LEVELS OF .3 TO 1 METER NEAR SHORE IS NOW IN EFFECT
Marine Hazard M NWS National Ts 1114 AM PDT Fri AKZ187-195-191- /T.NEW PAAQ.MM. Coastal areas b (30 miles SW of 1114 AM PDT Fri A MARINE HAZ LEVELS OF .3 TO AREAS OF ALASKA	4essage Number 1 sunami Warning Cen i Jul 8 2020 -081944- w.0086.160708T181 between and includ E Nikolski) to Att i Jul 8 2020 ZARD WARNING FOR S 0.1 METER NEAR SHC	ter Palmer AK 14Z-000000T0000Z/ iing Samalga Pass, Alaska zu, Alaska STRONG CURRENTS OR INCREASED WATER DRE IS NOW IN EFFECT FOR THE COASTAL SS ALASKA /WHICH IS LOCATED 30 MILES	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T18142-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020 A COASTAL AND MARINE TSUNAMI WARNING FOR STRONG CURRENTS, OR HIGHER
Marine Hazard M NWS National TS 1114 AM PDT Fri AK2187-195-191- /T.NEW.PAAQ.MM. Coastal areas b (30 miles SW of 1114 AM PDT Fri A MARINE HAZ LEVELS OF .3 TO AREAS OF ALASKA SW OF NIKOLSKI/	4essage Number 1 sunami Warning Cen i Jul 8 2020 -081944- www.0086.160708T181 between and includ F Nikolski) to Att i Jul 8 2020 ZARD WARNING FOR SO 0 1 METER NEAR SHC A FROM SAMALGA PAS / TO ATTU ALASKA	ter Palmer AK 14Z-00000070000Z/ ding Samalga Pass, Alaska zu, Alaska STRONG CURRENTS OR INCREASED WATER DRE IS NOW IN EFFECT FOR THE COASTAL SS ALASKA /WHICH IS LOCATED 30 MILES 	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020 A COASTAL AND MARINE TSUNAMI WARNING FOR STRONG CURRENTS, OR HIGHER THAN AVERAGE WATER LEVELS OF .3 TO 1 METER NEAR SHORE IS NOW IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF ALASKA FROM SAMALGA PASS ALASKA /WHICH IS LOCATED 30 MILES SW OF NIKOLSKI/ TO ATTU ALASKA
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Marine Hazard M NWS National TS 1114 AM PDT Fri AK2187-195-191- /T.NEW.PAAQ.MM. Coastal areas b (30 miles SW of 1114 AM PDT Fri A MARINE HAZ LEVELS OF .3 TO AREAS OF ALASKA SW OF NIKOLSKI/	Message Number 1 sunami Warning Cen i Jul 8 2020 -081944- W.0086.160708T181 Detween and includ E Nikolski) to Att i Jul 8 2020 ZARD WARNING FOR S D 1 METER NEAR SHG A FROM SAWAIGA PAS / TO ATTU ALASKA ated in this coast	ter Palmer AK 14Z-00000070000Z/ ding Samalga Pass, Alaska zu, Alaska STRONG CURRENTS OR INCREASED WATER DRE IS NOW IN EFFECT FOR THE COASTAL SS ALASKA /WHICH IS LOCATED 30 MILES 	BULLETIN Tsunami Message Number 1 NWS National Tsunami Warning Center Palmer AK 1114 AM PDT Fri Jul 8 2020 AKZ187-195-191-081944- /T.NEW.PAAQ.TS.W.0086.160708T1814Z-000000T0000Z/ Coastal areas between and including Samalga Pass, Alaska (30 miles SW of Nikolski) to Attu, Alaska 1114 AM PDT Fri Jul 8 2020 A COASTAL AND MARINE TSUNAMI WARNING FOR STRONG CURRENTS, OR HIGHER THAN AVERAGE WATER LEVELS OF .3 TO 1 METER NEAR SHORE IS NOW IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF ALASKA FROM SAMALGA PASS ALASKA /WHICH IS LOCATED 30 MILES SW OF NIKOLSKI/ TO ATTU ALASKA
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Sample Tsunami product examples to be used in the survey:

3. Which of the examples most clearly illustrates the nature of this lower-level tsunami hazard?

- Current Product
- Option A
- Option B
- Option C
- I don't know

4. Which of the examples provides the best guidance on the actions needed to be taken by people at the coast during such an event?

- Current Product
- Option A
- Option B
- Option C
- I don't know

5. Do you have any suggestions as to how NWS can improve this proposal?

Updating Warnings survey:

Sample Severe Weather Statement examples to be used in the survey:

Current	Proposed	
SVSCHS	SVRCHS	
<mark>Severe Weather Statement</mark> National Weather Service Charleston SC 145 FM EST Tue Dec 17 2019	Severe Thunderstorm Warning National Weather Service Charleston SC 145 PM EST Tue Dec 17 2019	
GAC267-171915- /o.com.KCHS.SV.W.0110.000000T0000Z-191217T1915Z/ Tattnall GA- 145 PM EST Tue Dec 17 2019	GAC267-171915- /o.CON.KCHS.SV.W.0110.000000T0000Z-191217T1915Z/ Tattnall GA- 145 FM EST Tue Dec 17 2019	
A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 215 PM EST FOR TATINALL COUNTY	A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 215 PM EST FOR TATINALL 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.	
HAZARD60 mph wind gusts.	HAZARD60 mph wind gusts.	
SOURCERadar indicated.	SOURCERadar indicated.	
IMPACTExpect damage to trees and powerlines.	IMPACTExpect damage to trees and powerlines.	
Locations impacted include Glennville, Manassas and Mendes.	Locations impacted include Glennville, Manassas and Mendes.	
PRECAUTIONARY/PREPAREDNESS ACTIONS	PRECAUTIONARY/PREPAREDNESS ACTIONS	
A tornado watch remains in effect for the warned area. Tornadoes can develop quickly from severe thunderstorms. Although a tornado is not immediately likely, if one is spotted act quickly and move to a place of safety inside a sturdy structure, such as a basement or small interior room.	A tornado watch remains in effect for the warned area. Tornadoes can develop quickly from severe thunderstorms. Although a tornado is not immediately likely, if one is spotted act quickly and move to a place of safety inside a sturdy structure, such as a basement or small interior room.	

3. Please share your level of agreement/disagreement with the following statement:

NWS should update Severe Thunderstorm Warning, Tornado Warning, Extreme Wind Warning, Flash Flood Warning, Flood Warning, and Special Marine Warning within the same Warning product (and PIL) rather than through a separate statement product.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Emergency level - survey version 1

Sample Ice Storm Warning product examples to be used in the survey:

Current

... ICE STORM WARNING REMAINS IN EFFECT UNTIL 1 PM EST THURSDAY ...

 WHAT...Freezing rain with some snow and sleet. Widespread amounts of one quarter to three quarters of an inch of ice, with isolated totals in excess of one inch of ice.

 WHERE... Along and either side of a line from Franklin to Newnan and Peachtree City to Warrenton.

 WHEN... Snow...sleet and freezing rain will begin this morning. This will gradually changeover to all freezing rain today. The activity should end as light snow late tonight into Thursday morning.

* IMPACTS...These high ice accumulation amounts will make travel impossible. This has the potential to be a catastrophic event. Widespread and extended power outages are likely as ice accumulates on trees and powerlines and brings them down. Please prepare to be without power in some locations for days and perhaps as long as a week. Once the ice begins to melt on Thursday and Friday...falling ice from bridges and overpasses will create an additional hazard. In addition, winds in conjunction with the ice will exacerbate the potential for falling trees.

Option A

Option B

... ICE STORM EMERGENCY REMAINS IN EFFECT UNTIL 1 PM EST THURSDAY ...

- WHAT...Widespread ice accumulation, ranging from one quarter to three quarters of an inch, with isolated totals in excess of one inch.
- * WHERE... Along and either side of a line from Franklin to Newnan and Peachtree City to Warrenton.
- WHEN... Mixed precipitation begins this morning, gradually changing to freezing rain today. The precipitation should end as light snow late tonight into Thursday morning.
- IMPACTS...THIS HAS THE POTENTIAL TO BE A CATASTROPHIC EVENT.
 Widespread, extended power outages are expected due to fallen powerlines and trees. Prepare to be without power in some locations for several days. Travel will be dangerous and next to impossible.

...ICE STORM WARNING REMAINS IN EFFECT UNTIL 1 PM EST THURSDAY ...

- * THIS IS A PARTICULARLY DANGEROUS SITUATION.
- * WHAT...Widespread ice accumulation, ranging from one quarter to three quarters of an inch, with isolated totals in excess of one inch.
- * WHERE... Along and either side of a line from Franklin to Newnan and Peachtree City to Warrenton.
- * WHEN... Mixed precipitation begins this morning, gradually changing to freezing rain today. The precipitation should end as light snow late tonight into Thursday morning.
- * IMPACTS...THIS HAS THE POTENTIAL TO BE A CATASTROPHIC EVENT. Widespread, extended power outages are expected due to fallen powerlines and trees. Prepare to be without power in some locations for several days. Travel will be dangerous and next to impossible.

4. Which of the options should NWS consider to better communicate highly impactful situations?

- Current Product (no additional Emergency level)

- Option A
 Option B
 I don't know

5. Do you have any suggestions as to how NWS can improve this proposal?

Emergency level - survey version 2

Sample Excessive Heat Warning product examples to be used in the survey:

Current	Proposed
EXCESSIVE HEAT WARNING REMAINS IN EFFECT UNTIL 8 PM MST THIS EVENING	EXCESSIVE HEAT WARNING REMAINS IN EFFECT UNTIL 8 PM MST THIS EVENING
 AFFECTED AREAPortions of southwest, south-central and east- central Arizona including Gila Bend, Case Grande, and Globe. 	 THIS IS A PARTICULARLY DANGEROUS SITUATION WHATHigh temperatures 111 to 115 degrees across the lower
 TEMPERATUREHigh temperatures 111 to 115 F across the lower deserts and 101 to 105 F in higher elevation areas. 	Deserts and 101 to 105 degrees in higher elevation * WHERE Portions of southwest, south-central and east-
 IMPACTSHigh to extreme risk of heat related illness for those working or participating in outdoor activities or those without access to adequate air conditioning. 	central Arizona including Gila Bend, Case Grande, and Globe. * WHENThrough this evening
	 IMPACTSExtreme risk of widespread heat related illnesses for those working or participating in outdoor activities or those without access to adequate air conditioning.

3. Please share your level of agreement/disagreement with the following statement:

NWS should include Particularly Dangerous Situation (PDS) language in certain Excessive Heat Warning products when the impacts are expected to be extreme.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Special Marine Warning survey

Sample Special Marine Warning example to be used in the survey

Current	Proposed
The National Weather Service in Mount Holly NJ has issued a	The National Weather Service in Mount Holly NJ has issued a
* Special Marine Warning for Delaware Bay	* Special Marine Warning for Delaware Bay
* Until 415 PM EDT.	* Until 415 PM EDT.
 At 351 PM EDT, a severe thunderstorm capable of producing waterspouts was located near Bowers Beach, moving east at 60 knots. 	 At 351 PM EDT, a dangerous thunderstorm was located near Bowers Beach, moving east at 60 knots.
HAZARDWaterspouts and wind gusts in excess of 65 knots.	THIS IS A DESTRUCTIVE STORM FOR DELAWARE BAY. THIS IS A PARTICULARLY DANGEROUS SITUATION. SEEK SHELTER NOW!
SOURCERadar.	HAZARDWaterspouts and wind gusts in excess of 65 knots.
IMPACTWaterspouts can easily overturn boats and create locally hazardous seas. Boats could suffer significant structural damage in high winds. Small craft could capsize in suddenly higher waves.	SOURCERadar. IMPACTWaterspouts can easily overturn boats and create locally hazardous seas. Boats could suffer significant structural damage in high winds. Small craft are likely to capsize in
 Locations impacted include Miah Maull Light, Fortesque Beach and Cross Ledge Light. 	suddenly higher waves. • Locations impacted include Miah Maul Light, Fortesque Beach and Cross Ledge Light.
PRECAUTIONARY/PREPAREDNESS ACTIONS	PRECAUTIONARY/PREPAREDNESS ACTIONS
A Tornado Watch remains in effect until 600 PM EDT for central Delawaresouthern New Jerseyand the adjacent coastal waters.	This is an EXTREMELY DANGEROUS STORM. Prepare immediately for destructive winds and/or hail capable of producing significant damage.
8.8	A Tornado Watch remains in effect until 600 PM EDT for central Delawaresouthern New Jerseyand the adjacent coastal waters.
LATLON 3907 7542 3918 7543 3925 7512 3919 7503 3910 7508 TIMEMOTLOC 1951Z 255DEG 62KT 3911 7540	8.8.
WATERSPOUTPOSSIBLE HAIL0.00IN WIND65KTS	LATLOTTIMEMOTLOC MARINE DAMAGE THREATDESTRUCTIVE WATERSPOUTPOSSIBLE HAIL0.00IN WIND65KTS

3. Please share your level of agreement/disagreement with the following statement:

NWS should utilize damage threat tags in the Special Marine Warning to better convey expected impacts.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Extreme Wind Warning IBW survey

Sample Extreme Wind Warning product example to be used in the survey:

Current	Proposed
BULLETIN - EAS ACTIVATION REQUESTED Extreme Wind Warning National Weather Service Miami FL 1225 PM EDT SUN SEP 10 2017	BULLETIN - EAS ACTIVATION REQUESTED Extreme Wind Warning National Weather Service Miami FL 1225 FM EDT Sun Sep 10 2017
The National Weather Service in Miami has issued a * Extreme Wind Warning for	TAKE COVER NOW FROM LIFE-THREATENING WINDS WITH HURRICANE IRMA The National Weather Service in Miami has issued a
Southwestern Collier County in southwestern Florida	* Extreme Wind Warning for Southwestern Collier County in southwestern Florida
* Until 330 PM EDT	* Until 330 PM EDT.
* At 1223 FM EDT, National Weather Service Doppler radar indicated extreme winds above 115 mph, associated with the eyewall of	 At 1223 PM EDT, the strongest winds from Hurricane [NAME] are imminent. THIS IS AN EXTREMELY DANGEROUS AND LIFE-THREATENING SITUATION!
Hurricane Irma, were approaching the coast 10 miles south of Everglades City, moving north at 15 mph. This is an extremely dangerous and life-threatening situation!	HAZARDExtreme hurricane winds over 115 mph. SOURCERadar observations, Surface observations, Satellite observations
* Locations impacted include Naples, Marco Island, Chokoloskee, Golden Gate Estates and Everglades City.	IMFACTTAKE COVER NOW! Move immediately to the safe room in your shelter to protect yourself from flying debris. Well-built structures can sustain severe damage with loss of most of the roof and/or some exterior walls.
PRECAUTIONARY/PREPAREDNESS ACTIONS	* Locations impacted include Naples, Marco Island, Chokoloskee, Golden Gate Estates and Everglades City.
The safest place to be during a major landfalling hurricane is in a reinforced interior room away from windows. Get under a table or	PRECAUTIONARY/PREPAREDNESS ACTIONS
other piece of sturdy furniture. Use mattresses, blankets or pillows to cover your head and body. Remain in place through the passage of these life-threatening conditions.	The safest place to be during a major landfalling hurricane is in a reinforced interior room away from windows. Get under a table or other piece of sturdy furniture. Use mattresses, blankets or pillows to cover your head and body. Remain in place through the passage of
££	these life-threatening conditions.
LATLON 2633 8184 2633 8182 2632 8182 2632 8140	<u>66</u>
TIMEMOTLOC 1623Z 167DEG 11KT 2556 8160	LATLON 2633 8184 2633 8182 2632 8182 2632 8140 TIMEMOTLOC 1623Z 167DEG 11KT 2556 8160
	EXTREME WINDOBSERVED EXTREME WIND THREATCATASTROPHIC
	MAX WIND> 115 MPH

3. Please share your level of agreement/disagreement with the following statement:

NWS should transition the current Extreme Wind Warning product format to Impact-Based Warning (IBW) format.

- Strongly agree
- Agree
- Neither disagree or agree
- Disagree
- Strongly disagree
- I don't know

4. Do you have any suggestions as to how NWS can improve this proposal?

Plain language headline survey:

Option A

...2 TO 4 INCHES OF SNOW FROM 7PM EDT TONIGHT TO 5AM EDT TOMORROW MORNING...

<u>Option B</u> ...BE AWARE: 2 TO 4 INCHES OF SNOW FROM 7PM EDT TONIGHT TO 5AM EDT TOMORROW MORNING...

<u>Option C</u> ...CAUTION: 2 TO 4 INCHES OF SNOW FROM 7PM EDT TONIGHT TO 5AM EDT TOMORROW MORNING...

3. Which of the examples would most likely capture your attention?

- Option A
- Option B
- Option C
- I don't know

4. Which of the examples would most likely prompt you to take an action to protect/prepare yourself or your family for the weather event?

- Option A
- Option B
- Option C
- I don't know

5. Do you have any suggestions as to how NWS can improve this proposal?