

Hurricane Bunnell Exercises
Incident Action Plan
IAP



INCIDENT BRIEFING (ICS 201)

1. Incident Name: Hurricane Bunnell	2. Incident Number:	3. Date/Time Initiated: Date: 10/19/19 Time: 0800 EDT
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4. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines, or other graphics depicting situational status and resource assignment):



5. Situation Summary and Health and Safety Briefing (for briefings or transfer of command): Recognize potential incident Health and Safety Hazards and develop necessary measures (remove hazard, provide personal protective equipment, warn people of the hazard) to protect responders from those hazards.

A category 4 hurricane made landfall on the east side of Florida on the Flagler County and Volusia County border. It moved west through Putnam County than made a northwest curve through Alachua and Columbia Counties. It entered Georgia as a Tropical Storm.

Three weeks before a category 2 hurricane made landfall in Walton County from the southwest heading northeast.

6. Prepared by: Name: Karl Martin K4HBN Position/Title: SEC Signature: _____

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7. Current and Planned Objectives:

It is now the EC's responsibility to coordinate amateur radio efforts in your county. Using the Florida ARES procedures and documents like ICS-213, ICS-309 and ICS-214 to record and send requests to your served agencies to request any resources you think you need. You can do this by following the request process guide.

1. Establish and test reliable communications with the Florida ARES NCS on multiple bands.
2. Establish and test communications on the SARNET.
3. Establish or re-establish communications with your served agency.
4. Send an hourly situation report (Sit-Rep) to the Section Emergency Coordinator using winlink K4HBN@winlink.org or HF Voice to Dave Davis WA4WES.
5. Send 2 or more requests to the Florida SEOC via Winlink FLEOC@winlink.org or HF Voice to Dave Davis WA4WES

8. Current and Planned Actions, Strategies, and Tactics:

Time:	Actions:
	Please refer to ICS-202 for the Planned Actions

6. Prepared by: Name: Karl Martin K4HBN Position/Title: SEC Signature: _____

ICS 201, Page 2 Date/Time: 10/14/19

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name: Hurricane Bunnell		2. Operational Period: Date From: 10/19/19 Date To: 10/19/19 Time From: 0800 EDT Time To: 1300 EDT																
3. Objective(s): <ol style="list-style-type: none">1. Establish and test reliable communications with the Florida ARES NCS on multiple bands.2. Establish and test communications on the SARNET.3. Establish or re-establish communications with your served agency.4. Send an hourly situation report (Sit-Rep) using Winlink K4HBN@winlink.org or HF Voice to Dave Davis WA4WES.5. Send 2 or more requests to the Florida SEOC via Winlink FLEOC@winlink.org or HF Voice Dave Davis WA4WES. <p>HF Voice 3.955 Winlink FLEOC@WINLINK.ORG</p> <p>The Emergency Coordinator or their delegate can check-in to any of the nets or send winlink messages.</p> <p>You can download ICS forms at: https://training.fema.gov/icsresource/icsforms.aspx</p> <p>You can download ICS-309 form at: http://arrrl-nfl.org/?page_id=9184</p> <p>You can find a copy of this IAP at: arrrl-nfl.org</p>																		
4. Operational Period Command Emphasis: Everyone must use ICS-213 for formal traffic and document all traffic on the ICS-309. Every individual should keep a record on a ICS-214 of notable activities as, Injuries and situations needed to be addressed by command staff. Follow the newly published Resource Request Guide. All these documents can be found in this IAP or at arrrl-nfl.org.																		
General Situational Awareness																		
5. Site Safety Plan Required? Yes <input type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located at:																		
6. Incident Action Plan (the items checked below are included in this Incident Action Plan): <table><tr><td><input type="checkbox"/> ICS 203</td><td><input type="checkbox"/> ICS 207</td><td><u>Other Attachments:</u></td></tr><tr><td><input type="checkbox"/> ICS 204</td><td><input checked="" type="checkbox"/> ICS 208</td><td><input checked="" type="checkbox"/> ICS-213, ICS-214, ICS-309</td></tr><tr><td><input checked="" type="checkbox"/> ICS 205</td><td><input checked="" type="checkbox"/> Map/Chart</td><td><input checked="" type="checkbox"/> Hurricane Bunnell Past 72 Hours</td></tr><tr><td><input checked="" type="checkbox"/> ICS 205A</td><td><input checked="" type="checkbox"/> Weather Forecast/Tides/Currents</td><td><input checked="" type="checkbox"/> Time List & Time Plan</td></tr><tr><td><input type="checkbox"/> ICS 206</td><td></td><td><input type="checkbox"/></td></tr></table>				<input type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<u>Other Attachments:</u>	<input type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> ICS-213, ICS-214, ICS-309	<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input checked="" type="checkbox"/> Hurricane Bunnell Past 72 Hours	<input checked="" type="checkbox"/> ICS 205A	<input checked="" type="checkbox"/> Weather Forecast/Tides/Currents	<input checked="" type="checkbox"/> Time List & Time Plan	<input type="checkbox"/> ICS 206		<input type="checkbox"/>
<input type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<u>Other Attachments:</u>																
<input type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> ICS-213, ICS-214, ICS-309																
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input checked="" type="checkbox"/> Hurricane Bunnell Past 72 Hours																
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<input type="checkbox"/> ICS 206		<input type="checkbox"/>																
7. Prepared by: Name: <u>Karl Martin K4HBN</u> Position/Title: <u>SEC</u> Signature: _____																		
8. Approved by Incident Commander: Name: <u>Karl Martin</u> Signature: _____																		
ICS 202	IAP Page <u>3</u>	Date/Time: <u>10/14/19</u>																

Time	Action
	For more information check page Time Plan on page 4
0800 ET	Exercise Start
	Check-in to the Florida ARES HF net on 3.955
	Send a winlink check-in to k4hbn@winlink.org
0830 ET	Check-in to the Florida ARES net on 7.242 If you have no messages or reports going out on 3.955
0900 ET	Check-in to the NFARES net on 3.950 (IF the NFARES net closes before 0930 ET move back to 3.955) If the NFARES net is still going on after 0930, you may skip the 7.242 net check-in.
0930 ET	Check-in to the Florida ARES net on 7.242 If you have no messages or reports going out on 3.955
1000 ET	Florida ARES net on 3.955 will have a roll call on the top of every hour Send Sit-Rep to K4HBN via HF Voice or Winlink k4hbn@winlink.org (Please refer to the Time Plan for more information)
1030 ET	Check-in to the Florida ARES net on 7.242 If you have no messages or reports going out on 3.955
1100 ET	Florida ARES net on 3.955 will have a roll call on the top of every hour Send Sit-Rep to K4HBN via HF Voice or Winlink k4hbn@winlink.org (Please refer to the Time Plan for more information)
1130 ET	Check-in to the Florida ARES net on 7.242 If you have no messages or reports going out on 3.955
1200 ET	Florida ARES net on 3.955 will have a roll call on the top of every hour Send Sit-Rep to K4HBN via HF Voice or Winlink k4hbn@winlink.org (Please refer to the Time Plan for more information)
1230 ET	Check-in to the Florida ARES net on 7.242 If you have no messages or reports going out on 3.955
1300 ET	End Ever Event

Time	0800 ET	0830 ET	0900 ET	0930 ET	1000 ET	1030 ET	1100 ET	1130 ET	1200 ET	1230 ET	1300
HF Voice Check-in	3.955	7.242	3.950 ¹	7.242	3.955	7.242	3.955	7.242	3.955	7.242	END
Winlink	Check-in ²		Sit-Rep ³		Sit-Rep ³		Sit-Rep ³		Sit-Rep ³		Of
											Event
Form Information	1. Check-in to the NFARES net at 0900 ET / 0800 CT. Once the NFARES net closes return to 3.955 or at 0930 ET move to 7.242.										
	2. Winlink Check-in form can be found in Winlink Express start new email. Select Template>Standard Templates>General>Winlink Check In.txt										
	3. You can find the Sit-Rep in Winlink Express go to start new email. Select Template>Standard Templates>General>Narrative Situation Report.txt										

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

1. Incident Name: Hurricane Bunnell	2. Date/Time Prepared: Date: 10/14/19 Time: 0945 EDT	3. Operational Period: Date From: 10/19/19 Date To: 10/19/19 Time From: 0800 EDT Time To: 1300 EDT
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4. Basic Radio Channel Use:										
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode (A, D, or M)	Remarks
		Command/ Tactical	Florida ARES		3.955		3.955		A	Primary Net
		Command/ Tactical	Florida ARES		7.242		7.242		A	Secondary net frequency
		Tactical	NFARES		3.959		3.950		A	Check-in net
		Interoperability	National Calling Frequency		146.52		146.52		A	National Calling Frequency
		Interoperability	National Calling Frequency		446.00		446.00		A	National Calling Frequency

5. Special Instructions:
 SARNET: See Attached frequency List.

6. Prepared by (Communications Unit Leader): Name: Karl Martin K4HBN Signature: _____

ICS 205 IAP Page 6 Date/Time: 10/14/19

COMMUNICATIONS LIST (ICS 205A)

1. Incident Name: Hurricane Bunnell		2. Operational Period: Date From: 10/19/19 Time From: 0800 EDT		Date To: 19/19/19 Time To: 1300 EDT
3. Basic Local Communications Information:				
Incident Assigned Position	Name (Alphabetized)	Method(s) of Contact (phone, pager, cell, etc.)		
Section Emergency Coordinator	Karl Martin K4HBN	386-756-9861 Voice or text		
		k4hbn1@gmail.com		
		k4hbn@winlink.org		
Alachua	Jeff Caphart W4UFL	352-219-3901		
		w4ufl@arrl.net		
Escambia EC	Harold Wilkinson KV4LY	W4UC@winlink.org EOC		
Hernando EC	Ron Wright N9EE	(727) 207-0808		
		lt_wright_flg@yahoo.com		
Gilchrist EC	John Greiner KJ4YPZ	kj4ypz@yahoo.com		
Madison EC	Pat Lightcap K4NRD			
Marion EC	Ron Viola KS4SW	(352) 239-5851		
		ks4sw@aol.com		
St Johns EC	Micharl Jordon WE4MJ	904-704-9272		
		mjord99@comcast.net		
		KX4EOC@winlink.org EOC		
Volusia EC	James Lea WX4TV	EC@volusiaares.org		
Winlink Sit-Rep Reports	Karl Martin K4HBN	K4HBN@winlink.org		
Florida SEOC FDEM	Logistics Requests	FLEOC@winlink.org		
FLEOC Voice Traffic	Dave Davis WA4WES	Dave Davis WA4WES		
4. Prepared by: Name: <u>Karl Martin</u> Position/Title: <u>SEC</u> Signature: _____				
ICS 205A	IAP Page <u>7</u>	Date/Time: <u>10/14/19</u>		

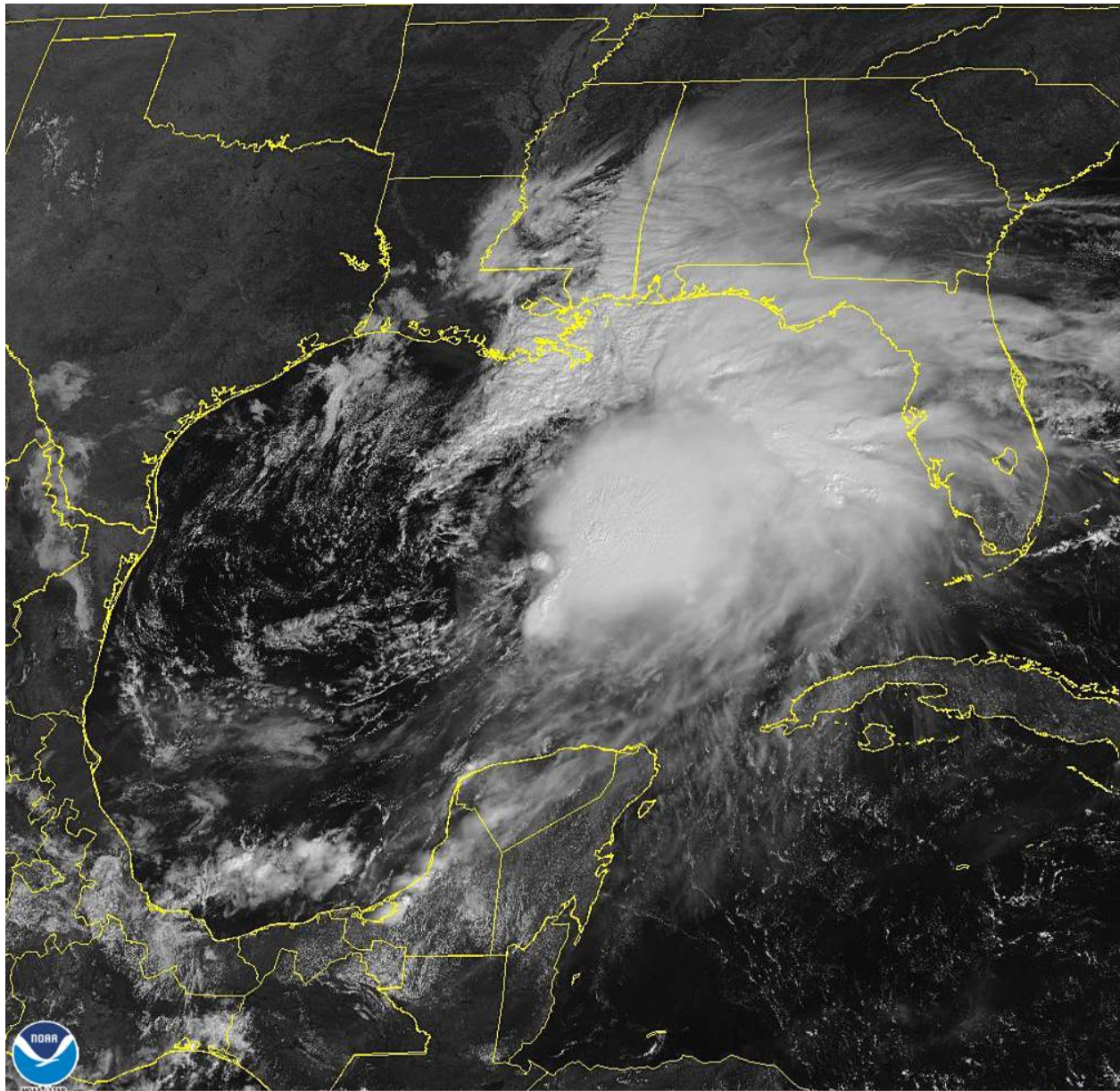
SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name: Hurricane Bunnell	2. Operational Period:	Date From: 10/19/2019 Time From: 0800	Date To: 10/19/2019 Time To: 1300
3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan: Before land fall: <ol style="list-style-type: none">1. Beware of Heavy traffic as last minute evacuations take place.2. Use proper safety precautions when transferring fuel to emergency resources. (generators / vehicles). After land fall: <ol style="list-style-type: none">1. Beware of downed power lines, road debris and falling trees; additionally, beware of fallen antennas, towers and cables.2. Avoid driving into flooded roads – Turn around, don't drown.3. Report stray animals to the Animal Control unit.4. Use appropriate Personal Protection Equipment (PPE) at all times.5. Operate portable generators outside with exhaust pointed away from inhabited buildings.6. Charge batteries in a well-ventilated area; additionally, turn off the charger before connecting the operating equipment leads to the battery to avoid hazardous sparks.7. Report and treat all injuries – Keep open wounds clean and covered. Personal Well-Being: <ol style="list-style-type: none">1. Use the buddy system – Two are always better than one.2. Drink plenty of water – Stay hydrated.3. Wear a hat and apply sunscreen when outside.4. Remember to use bug spray.5. Report and treat heat exhaustion – Move to an Air Conditioned building is best.<ul style="list-style-type: none">– Drink fluids, especially sports drinks to replace lost salt.– Remove any tight or unnecessary clothing.– Apply cooling measures such as fans or ice towels.			
4. Site Safety Plan Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located At:			
5. Prepared by:	Name: Harold Wilkinson KV4LY	Position/Title: Safety Officer	Signature: _____
ICS 208	IAP Page	Date/Time: 10/9/2019 2:00 PM	

Exercise Hurricane Bunnell

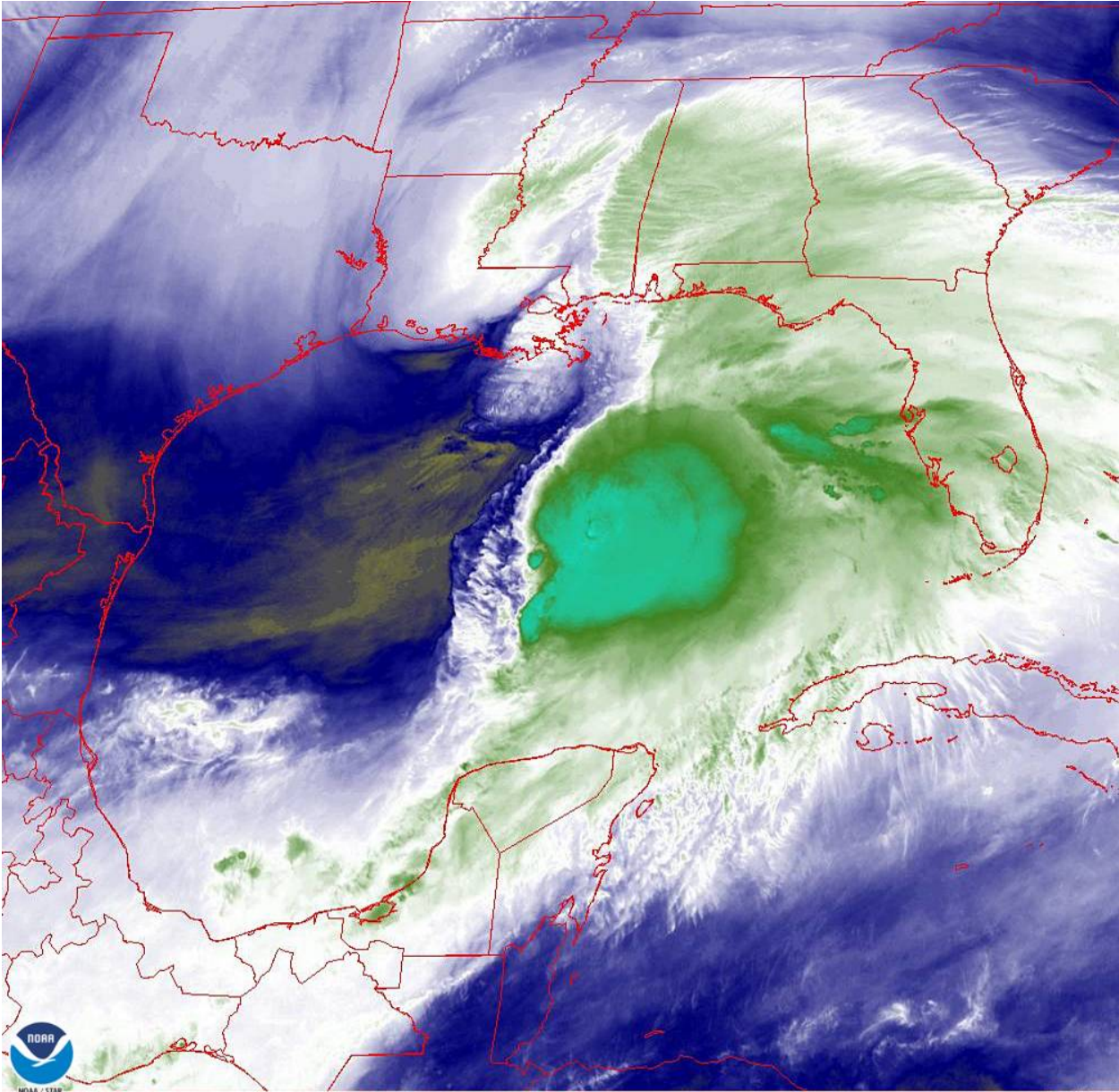
Real world Weather Conditions
For Saturday October 19th, 2019

Visible Satellite October 18th, 1146 EDT



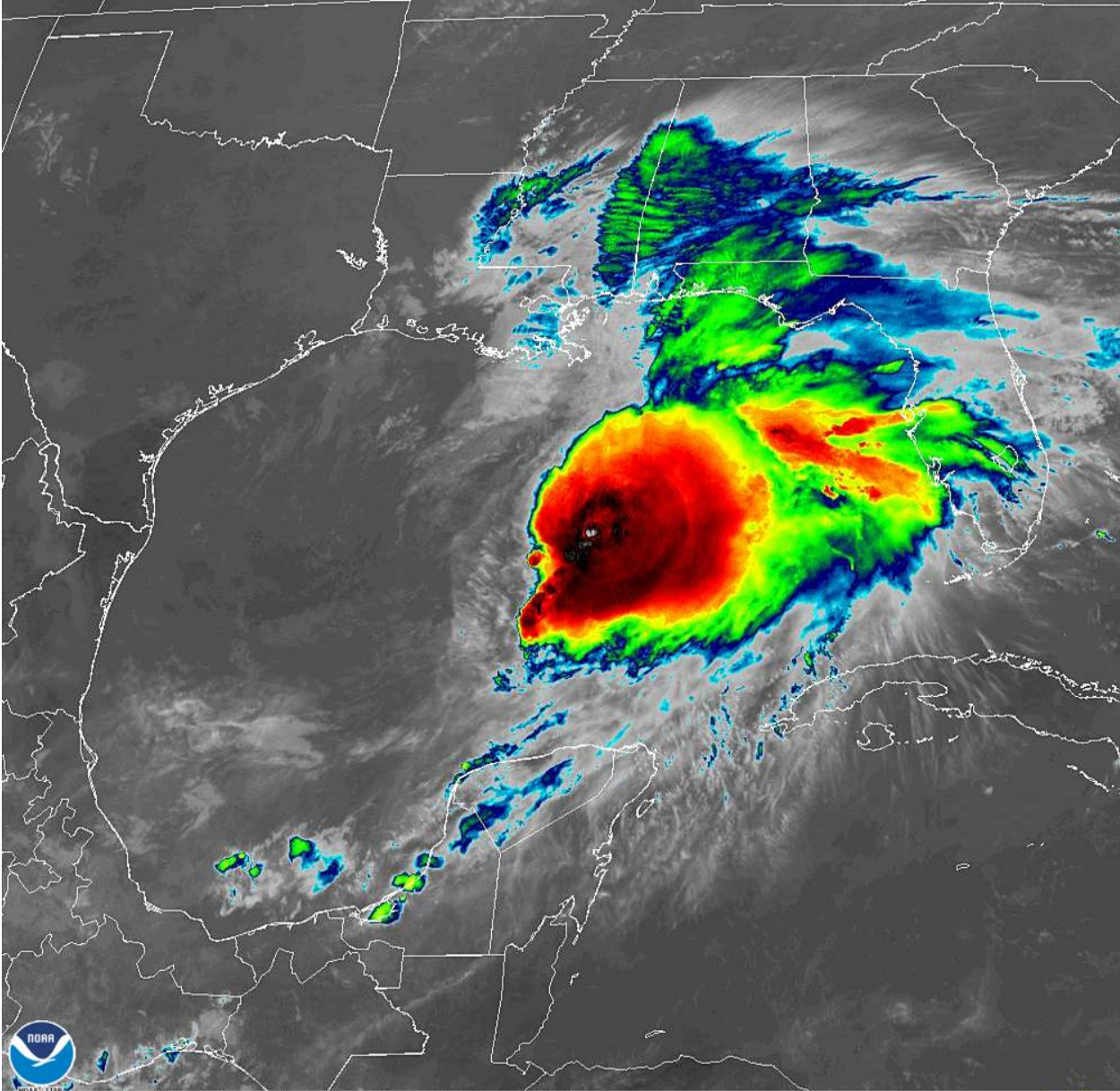
18 Oct 2019 15:46Z NOAA/NESDIS/STAR GOES-East Band 02

Water Vapor October 18th, 1146 EDT



18 Oct 2019 15:46Z NOAA/NESDIS/STAR GOES-East Band 08

Inferred October 18th, 1141 EDT



18 Oct 2019 15:41Z NOAA/NESDIS/STAR GOES-East Band 13

Weather outlook for your county for Saturday October 19th.

Alachua

Showers and possibly a thunderstorm. High near 81. Windy, with a southeast wind 17 to 20 mph. Chance of precipitation is 90%. New rainfall amounts between three quarters and one inch possible.

Escambia

A 40 percent chance of showers before 1pm. Mostly cloudy, with a high near 76. Breezy, with a northwest wind 15 to 20 mph decreasing to 10 to 15 mph in the afternoon. Winds could gust as high as 30 mph.

Gilchrist

Showers likely, mainly before 8pm. Mostly cloudy, with a low around 66. Breezy, with a southwest wind 7 to 16 mph. Chance of precipitation is 60%.

Hernando

Showers and possibly a thunderstorm. High near 85. Windy, with a southwest wind 14 to 22 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a half and three quarters of an inch possible.

Madison

Tropical storm conditions expected. Showers and possibly a thunderstorm. Some of the storms could produce heavy rain. High near 78. Chance of precipitation is 90%. New rainfall amounts between 1 and 2 inches possible.

Marion

Showers and possibly a thunderstorm. High near 83. Windy, with a southeast wind 15 to 20 mph. Chance of precipitation is 90%. New rainfall amounts between three quarters and one inch possible.

St Johns

Showers and possibly a thunderstorm. High near 81. Breezy, with a southeast wind 11 to 16 mph. Chance of precipitation is 90%. New rainfall amounts between three quarters and one inch possible.

Volusia

Showers and possibly a thunderstorm. Some of the storms could produce gusty winds. High near 83. Southeast wind around 15 mph becoming south southwest in the afternoon. Winds could gust as high as 20 mph. Chance of precipitation is 90%. New rainfall amounts between a half and three quarters of an inch possible.

Hurricane Bunnell 2019

SET Rules

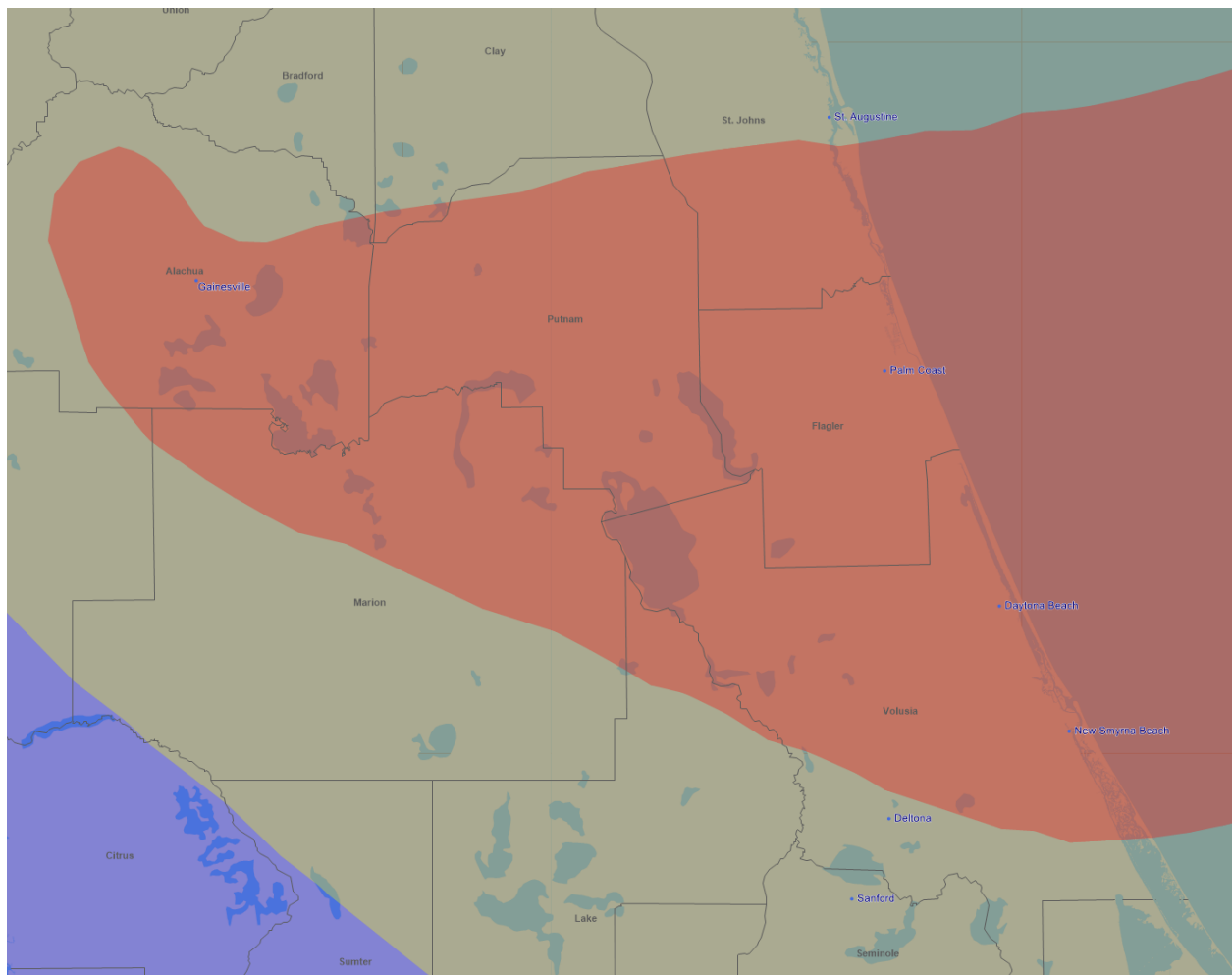
1. Use of cell phone's other than for emergencies or injects is not aloud.
2. Internet will be down for anyone within the Red and Yellow areas on the chart. **See below.**
3. Winlink RMS HF stations might be down in Northern Florida Section.
4. **SARNET will not be a directed net.** There will be a station on-air acting as the NCS, but it will be run as an open net and no formal traffic can be passed using SARNET. Only pass tactical information using SARNET.

Affected Area

Below is a color representation of how Hurricane Bunnell will affect your area. Please follow the condition listed for that area.

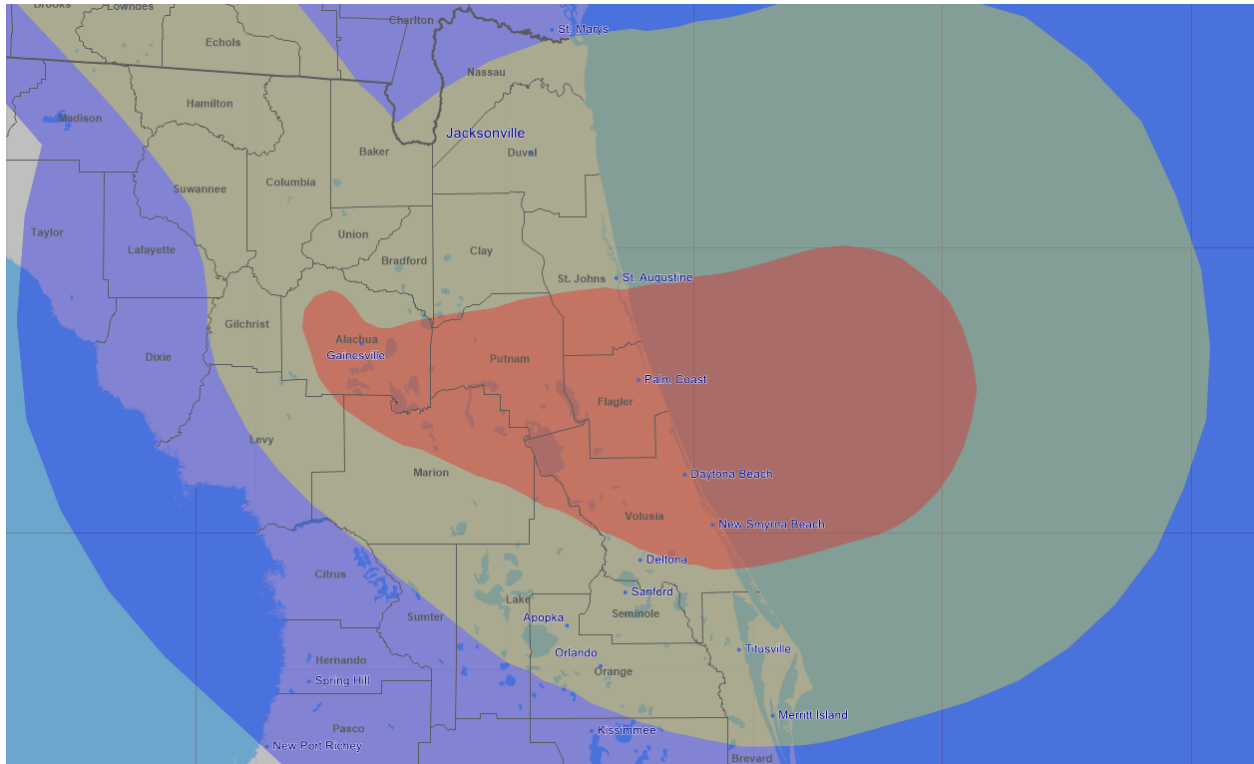
Hurricane Force Winds

1. All utilities have been damaged or destroyed. Electricity, Internet and Water pump for gas and sewage are out.
2. Roads are blocked by flooding (Lakes, Rivers and beach's flooding roads) and debris (Tree's, Light poles, Street and business signs)
3. Some staged resources are coming but they will need to pass though the Blue and Yellow zones. They will not arrive within the exercise time frame.
4. There will be no internet for you during this exercise. All VHF/UHF Winlink gateways using internet will also be down unless it is connected to a HF gateway station.



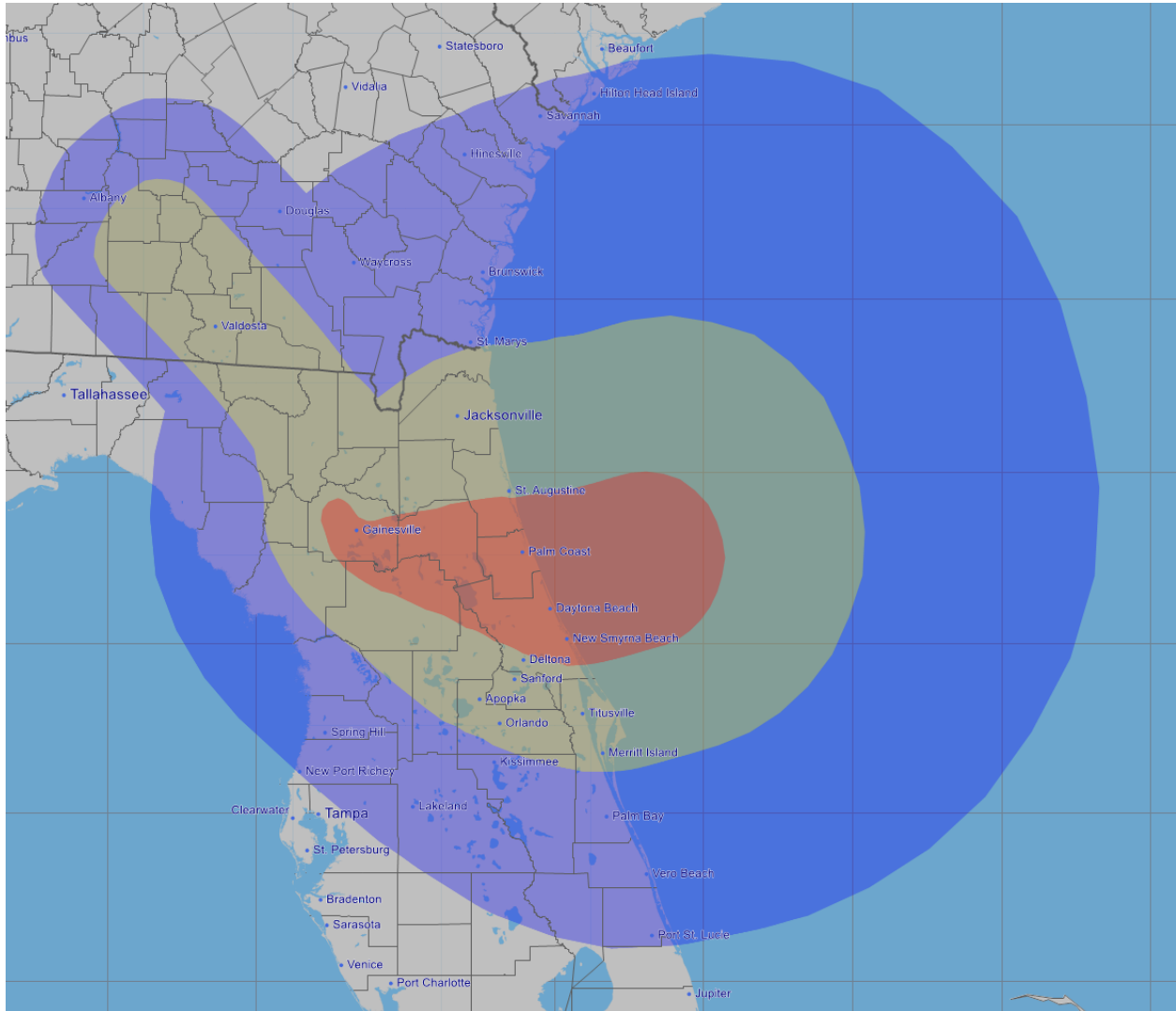
■ Strong Tropical Force Winds

1. Some utilities have been damaged or destroyed in random locations. Electricity, Internet and Water pump for gas and sewage. All power will be restored by 1100 EDT.
2. Some Roads are blocked by flooding (Lakes, Rivers and beach's flooding roads) and debris (Tree's, Light poles, Street and business signs) Mostly roads with lots of tree's and lowlands.
3. Some staged resources are coming. They will not arrive until after 12 pm ET.
4. Internet in your county will be out until 0930 EDT. All VHF/UHF Winlink gateways using internet will also be down unless it is connected to a HF gateway station. Once internet is restored these stations can return.



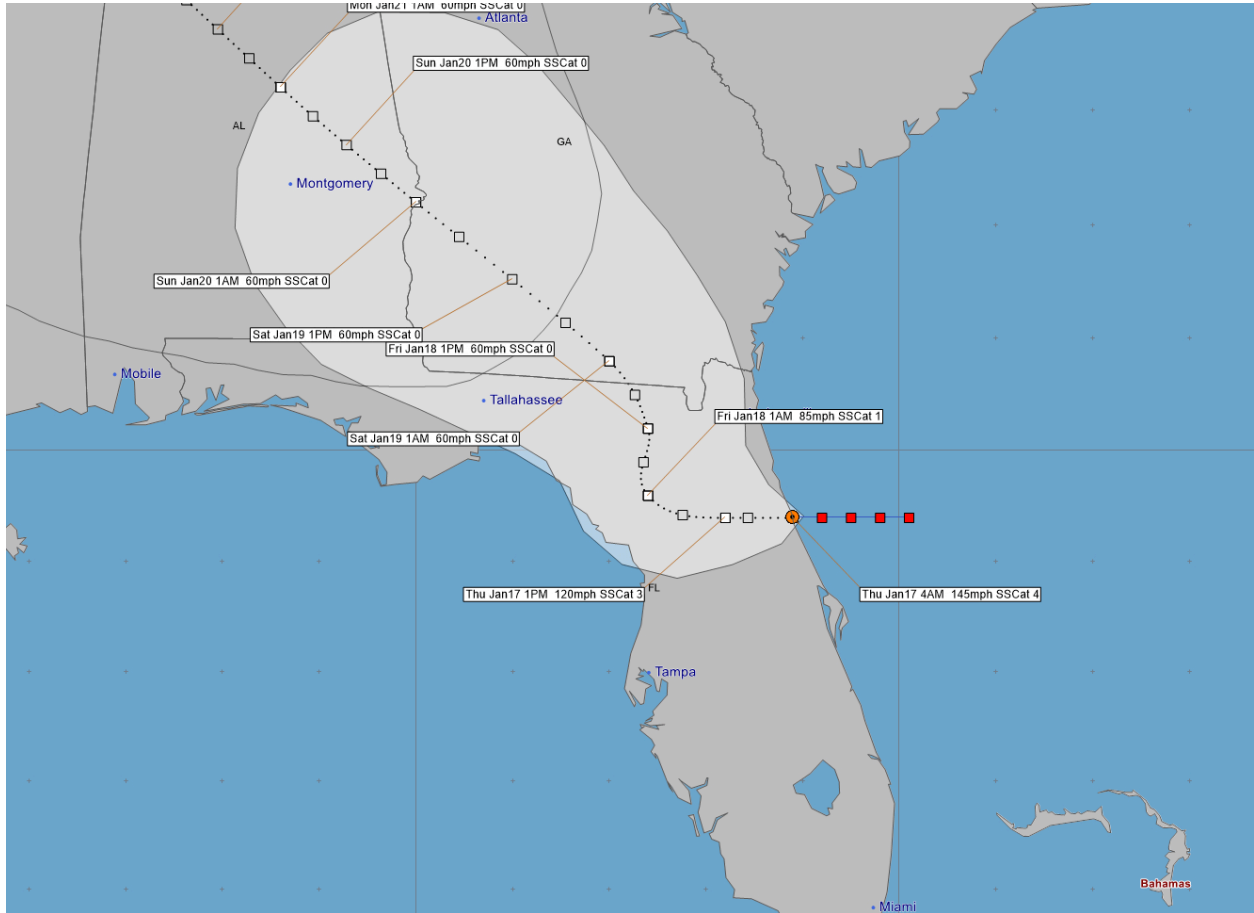
Tropical Force Winds

1. Places that lost power during strong storms have no power. Power will be restored at 0900 ET
2. Lowland areas are flooded.
3. You have random roads closed due to tree's and debris closing the roads.



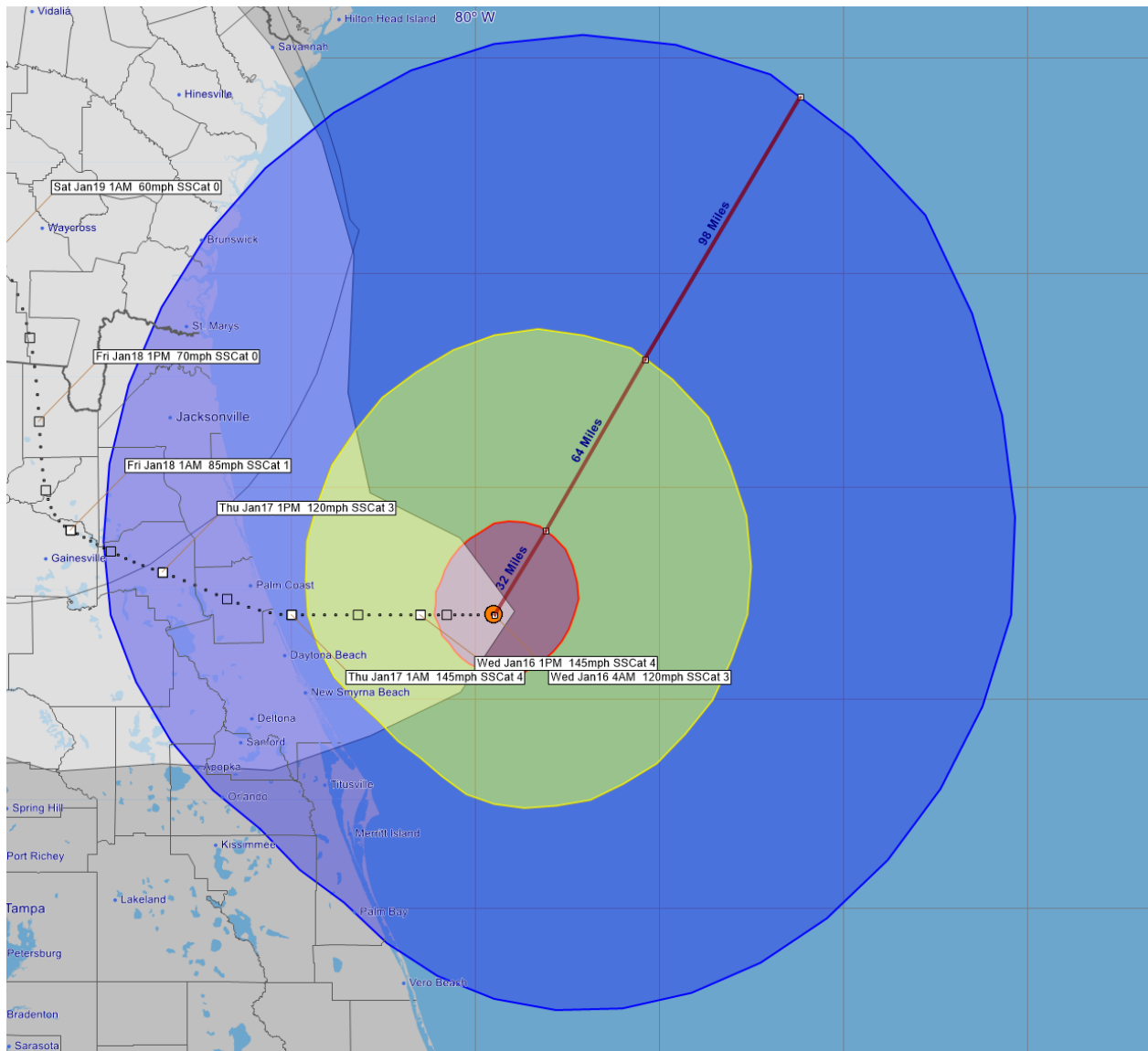
Hurricane Bunnell

Past 72 Hours






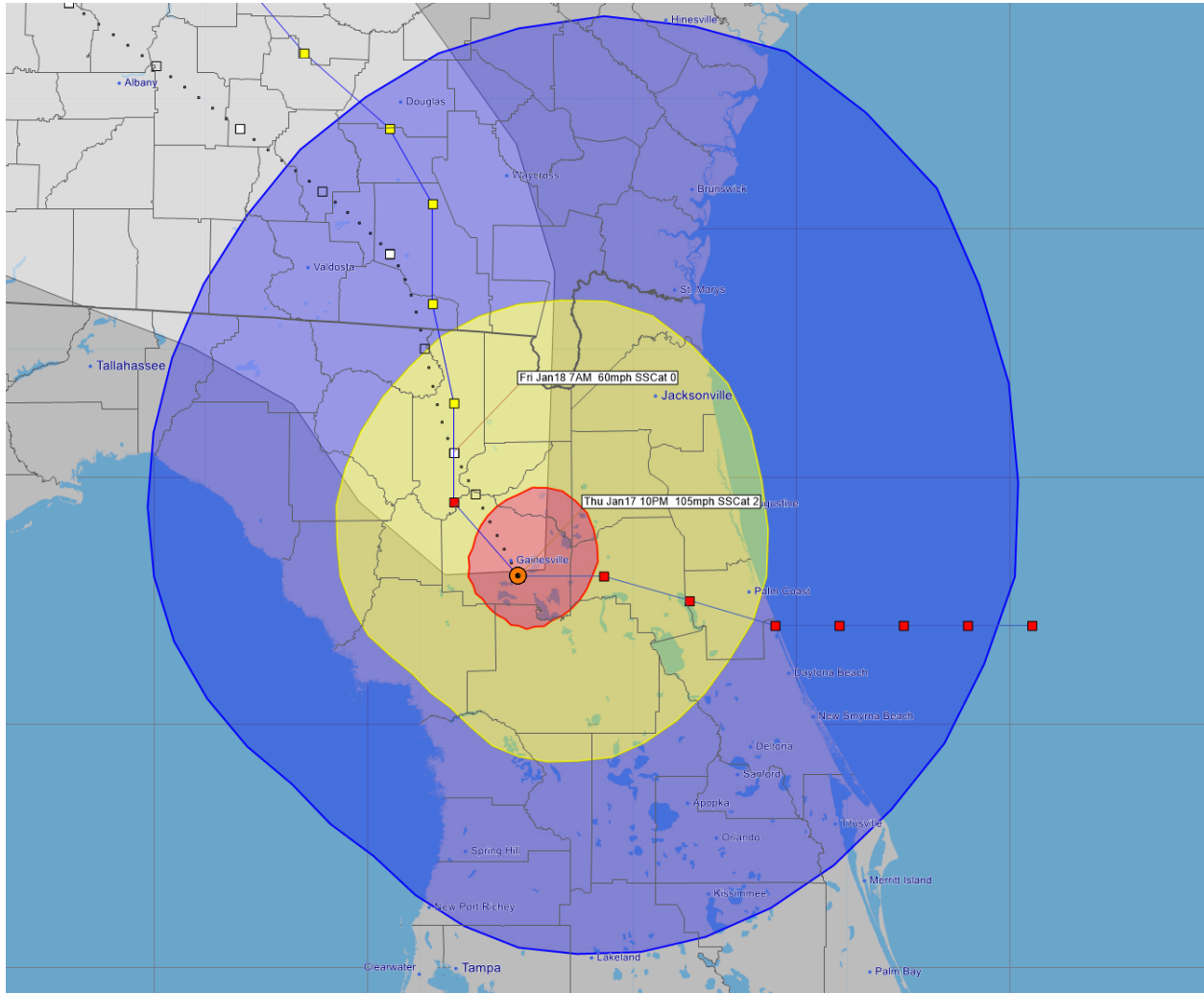
October 17th, 2019 5 am ET/4 am CT

Hurricane Bunnell was located at 29.4 N 81.1 W with a maximum sustained wind of 148 mph moving at 5 mph E.



October 16th, 2019 5 pm ET/4 pm CT

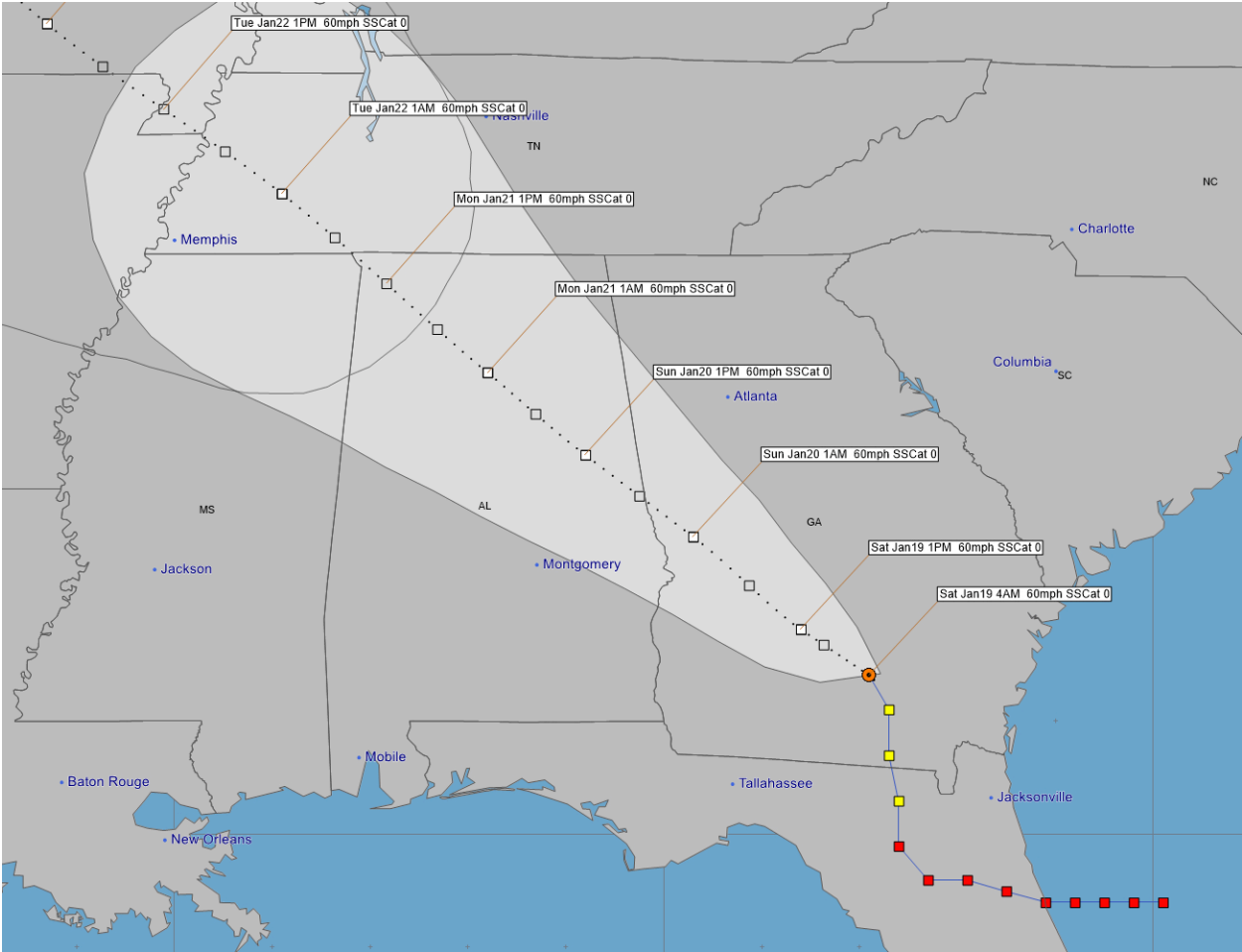
	Hurricane force winds	74 – 157 > mph
	Strong tropical storm force winds	58 - 73 mph
	Tropical storm force winds	< 39 mph



October 17th, 2019 11 pm ET/10 pm CT

Hurricane Bunnell was located at 29.6 N 82.3 W with a maximum sustained wind of 98 mph moving at 6 mph WNW.

Hurricane Bunnell Current Location



October 19th, 2019 5 am ET/4 am CT

Hurricane Bunnell was located at 31.4 N 82.9 W with a maximum sustained wind of 61 mph moving at 7 mph WNW.

Exercises Hurricane Bunnell

Example Documentation

ICS-213 General message

ICS-213 General message Example

ICS-214 Activity Log

ICS-214 Activity Log Example

ICS-309 Communications Log

ICS-309 Communications Log Example

Winlink Express Situation Report Example

Winlink Express Check-in Example

GENERAL MESSAGE (ICS 213)

1. Incident Name (Optional):		
2. To (Name and Position):		
3. From (Name and Position):		
4. Subject:	5. Date:	6. Time
7. Message:		
8. Approved by: Name: _____ Signature: _____ Position/Title: _____		
9. Reply:		
10. Replied by: Name: _____ Position/Title: _____ Signature: _____		
ICS 213	Date/Time: _____	

GENERAL MESSAGE (ICS 213)

1. Incident Name (Optional): Hurricane Bunnell		
2. To (Name and Position): Dave Davis WA4WES ASEC		
3. From (Name and Position): John Smith EC (County Name)		
4. Subject: Sit-Rep	5. Date: 10-19-19	6. Time 0912 EDT
7. Message: *** THIS IS A DRILL *** EOC at level 1 8 shelters open 1 closing I will be sending a request via WEBEOC for 5 operators *** THIS IS A DRILL ***		
8. Approved by: Name: <u>John Smith</u> Signature: _____ Position/Title: <u>EC</u>		
9. Reply:		
10. Replied by: Name: _____ Position/Title: _____ Signature: _____		
ICS 213	Date/Time: _____	

COMM Log ICS 309		1. Incident Name and Activation Number		2. Operational Period (Date/Time)	
				From:	To:
3. Radio Net Name (for NCOs) or Position/Tactical Call				4. Radio Operator (Name, Call Sign)	
5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
0812 ET	K4MEE	01	W4EOC	01	Requested 3 pallets of water.
0945 ET	W4EOC	23	K4MEE	23	2 Pallets will be delivered on 10/19/19 1132 ET 1 will be delivered on 10/19/19 1345 ET
6. Prepared By (Name, Call Sign)				7. Date & Time Prepared	
				8. Page ____ of ____	

Situation Report SITREP Vers 8

[Setup](#) [Click to add your agency or group name](#)
 [Load SITREP data](#)
 [Form Instructions](#)

Exercise
 REAL EVENT

This form is also sent as plain text in the message body, for non Winlink Express users.

To Email/Radio Call

Seperate multiple address with semicolon ; You can add/change prior to posting if needed.

1. To Individual, Agency Name and/or Office Routing

2. Event Name

3. Event Type and **Location or Area** with Brief Description
(County and location name)

4. Current Situation Summary

5. Current Operational Period Planned Actions

6. Next Operational Period Planned Actions

7. Efforts by Other Agencies or Organizations

8. Date and Time Approved You may overwrite or click to create a new date/time.

9. Authorizing Officials Name Position or Title

This form is also sent as plain text in the message body, for those not using Winlink Express.

[Save SITREP data](#)

Make sure
EXERCISE is
highlighted

Add ***
THIS IS A
DRILL ***

To make filling this form faster, you can fill the repeatable areas then save the sit-rep. (Make sure to remember where you saved it and what you named it.) At the top, you can reload the form and continue filling out the areas that change as conditions change.

Winlink Check In

Setup [Click to add your agency or group name to title](#)

[Form Info](#)

This is for an initial check in via Winlink Express. Also sent as plain text in message body for non-Express users.

Date/Time	<input type="text" value="2019-10-13 19:44"/>	Status	<input type="text" value="Exercise"/> <input type="text" value="Net Check In"/> <input type="text" value="REAL EVENT"/>	Band	<input type="text" value="80 Mtrs"/> <input type="text" value="60 Mtrs"/> <input type="text" value="40 Mtrs"/> <input type="text" value="30 Mtrs"/>	Session	<input type="text" value="Wed/Val"/> <input type="text" value="Packet"/> <input type="text" value="Winmor"/> <input type="text" value="Ardop"/> <input type="text" value="Voice"/>
Send To:	<input type="text" value="K4HBN"/>		Clear "Send To" entries.				
			<i>Entries will remain until you change or clear them.</i>				
Calls Signs of Initial Operator (s)	<input type="text" value="K4HBN"/>			Sender	<input type="text" value="K4HBN"/>		
Location	<input type="text" value="(County and Location)"/>						
Comments (be brief)	<input type="text" value="Call-Sign of RMS gateway used?"/>						
<input type="button" value="Submit"/>	<input type="button" value="Reset Form"/>					Ver 18	