

The logo is a circular emblem with a red outer ring containing the text "EMERGENCY COMMUNICATIONS" at the top and "THURSDAY RADIO AMATEUR OPERATIONS" at the bottom. The inner blue circle features a satellite, a laptop, a radio tower, and a satellite dish, all connected by yellow lightning bolts. The text "A.C.S." is prominently displayed in yellow at the bottom of the inner circle.

# Pinellas ACS Tabletop Exercise

## Incident Communication Plans

Mike Drake

WA1RYQ



# Agenda



- Overview of Planning Documents
- Tabletop Exercise



# Pinellas ACS Communications Plan

## ICS 217A Communications Resource Availability Worksheet

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band	Description		
						2-Meters 144.0000 - 148.0000	VHF Repeater Systems Accessible from Pinellas Co		
	Channel Configuration	Channel Name/Trunked Radio System Talk group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks
	<u>Lkd Rptr</u> - PACS <sup>3</sup>	W4ACS	Amateur	145.1700W	<u>CSQ</u>	144.5700W	156.7	A	<b><i>Pinellas ACS Primary</i></b>
	<u>Lkd Rptr</u> - SCD <sup>4</sup>	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	100.0	A	Shelter Net- St Pete
	<u>Lkd Rptr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	103.5	A	Shelter Net- North Co
	<u>Lkd Rptr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	156.7	A	Shelter Net Mid County
	<u>Lkd Rptr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	82.5	A	Shelter Net East County
	<u>Lkd Rptr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	146.2	A	Shelter Net West County
	<u>Lkd Rptr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	192.8	A	Shelter Net S Pasadena
	Repeater	KA9RIX	Amateur	145.3900W	<u>CSQ</u>	144.7900W	141.3	A	St. Petersburg
	<u>Lkd Rptr</u> NI4CE <sup>5</sup>	NI4CE	Amateur	145.4300W	<u>CSQ</u>	144.8300W	100.0	A	WCF ARES®: NI4CE Verna
	Repeater	KE4EMC	Amateur	146.7000W	<u>CSQ</u>	146.1000W	146.2	A	Dunedin
	Repeater	W4ORM	Amateur	146.8500W	<u>CSQ</u>	146.2500W	146.2	M	FM Analog / Fusion

<sup>3</sup> The W4ACS Repeater is linked to the UHF Repeater W4ACS listed in TABLE F- IV.

<sup>4</sup> The WD4SCD Repeater has a single transmitting site and six receiving sites. Each receive site is linked to the transmitting site via a UHF link.

<sup>5</sup> The NI4CE Repeater is linked to the UHF Repeater NI4CE listed in TABLE F- IV.



# Pinellas ACS Communications Plan

## ICS 205 Incident Radio Communications Plan

### INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

<b>1. Incident Name:</b> <b>Hurricane Spock EXERCISE</b>				<b>2. Date/Time Prepared:</b> Date: <b>4/29/2021</b> Time: <b>0800 EST</b>				<b>3. Operational Period:</b> Date From: <b>4/30/2021</b> Date To: <b>5/1/2021</b> Time From: <b>1600 EST</b> Time To: <b>1600 EST</b>			
<b>4. Basic Radio Channel Use:</b>											
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talk group	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode A, D, M	Remarks	
	1	Tactical	W4ACS Rptr	Coordination	145.1700W	CSQ	144.5700W	156.7	A	Pinellas EOC – Lkd Rptr	
		Tactical	W4ACS Rptr	Coordination	443.4000W	CSQ	448.4000W	156.7	A	Pinellas EOC - Lkd Rptr	
	2	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	100.0	A	Shelter Net- St Pete	
	3	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	103.5	A	Shelter Net- North County	
	4	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	156.7	A	Shelter Net Mid County	
	5	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	82.5	A	Shelter Net East County	
	6	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	146.2	A	Shelter Net West County	
	7	Tactical	WD4SCD Rptr	Shelter Ops	147.0300W	CSQ	147.6300W	192.8	A	Shelter Net S Pasadena	
	8	Tactical	WA4AKH Rptr	Out-of-Area Traffic	147.0600W	CSQ	147.6600W	CSQ	A	SPARC NTS™ Traffic Net	
	9	Tactical	NI4CE Rptr	WCF Coord	145.4300W	CSQ	144.8300W	100.0	A	WCF ARES®: NI4CE Verna	
<b>5. Special Instructions:</b> The WD4SCD repeater has a single transmitter site and five receive sites distributed throughout Pinellas County. The repeater receive sites are connected to the transmitter site using UHF communication links.											
<b>6. Prepared by</b> (Communications Unit Leader): Name: <b>James T Kirk</b>										Signature: _____	
ICS 205			IAP Page _1 of 3_		Date/Time: <b>4/30/2021</b>						



# Pinellas ACS Communications Plan

## Reasons for ACS Activation – Incidents



- Tropical Storms and Hurricanes
- Non-Tropical Weather Events
- Public Safety Communications Emergency
- Localized Emergencies
- Regional or National Emergencies
- Non-Emergency Special Events



# Pinellas ACS Communications Plan

## Communication Channels



- Local PACS Tactical/Resource Management (Voice)
- Local Evacuation Shelters to Pinellas EOC (Voice; Data only at Special Needs Shelters only)
- Pinellas County EOC to Local City EOCs
- Pinellas County EOC to State EOC (Voice and Data)
- Pinellas County EOC to WCF County EOCs (Voice and Data)
- Regional SKYWARN
- Health and Welfare traffic – out or region (Voice)



# Agenda



- Overview of Planning Documents
- Tabletop Exercise



# Pinellas ACS Communications Plan

## Tabletop Exercise – Run Rules



- Team will be presented three incidents
- For each incident –
  - Identify the communications channels required for each Incident
    - For each, discuss why or why not required
  - Assign primary and secondary (Back-up) communication resources to each comm channel
    - If a required resource is not listed, then we can create it...
- No right or wrong answer



The logo is a circular emblem with a red outer ring containing the text "EMERGENCY COMMUNICATIONS" at the top and "RADIO AMATEUR OPERATIONS" at the bottom, separated by two stars. The inner blue circle features a satellite at the top, a laptop in the center, a parabolic dish at the bottom left, and a radio tower at the bottom right, with yellow lightning bolts and concentric arcs representing radio waves.

# Tabletop Exercise

## Incident 1 – Localized Emergency

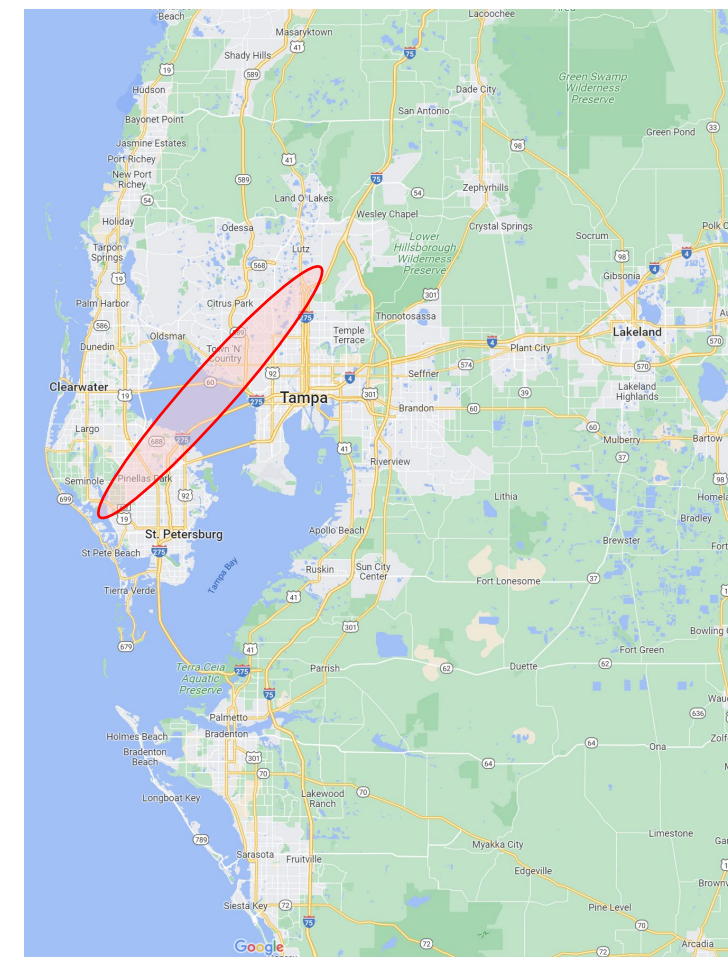


# Pinellas ACS Communications Plan

## Localized Emergency



- Tornado – Strong EF-3
  - Watch and Warning Issued before event
  - Pinellas and Hillsborough Counties Impacted
  - Localized Impact to services
    - Cell service spotty at best in central Pinellas
    - Land-line service Inoperative within impacted area
    - Localized power outages
  - Small number of Evacuation Shelters open



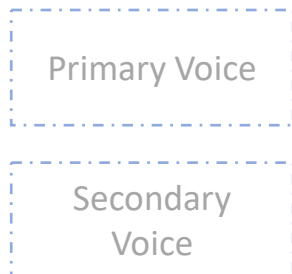


# Pinellas ACS Communications Plan

## Localized Internet - Land Line - Cell Outage



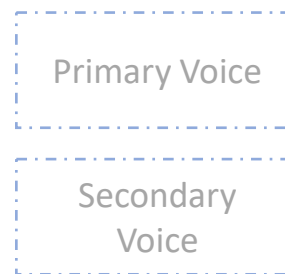
### Local Resource Management



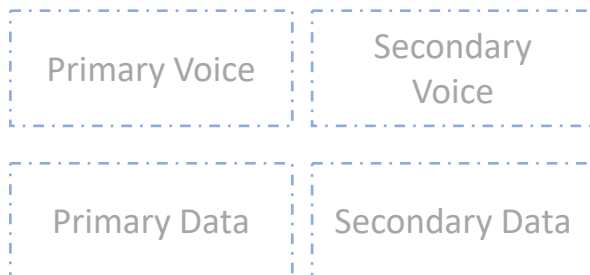
### Shelter – EOC



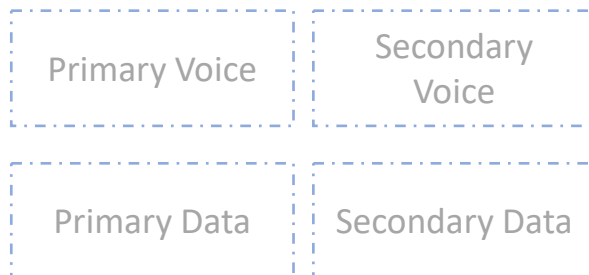
### SKYWARN



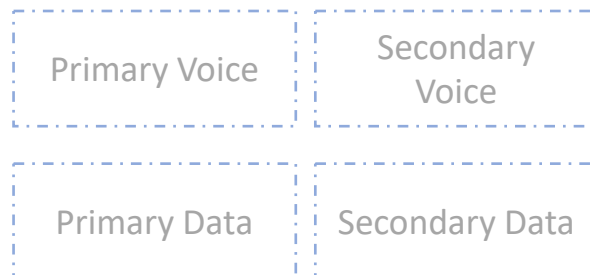
### Pinellas EOC – Local EOCs



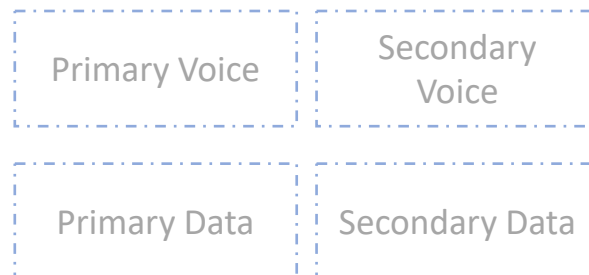
### Pinellas EOC – WCF EOCs



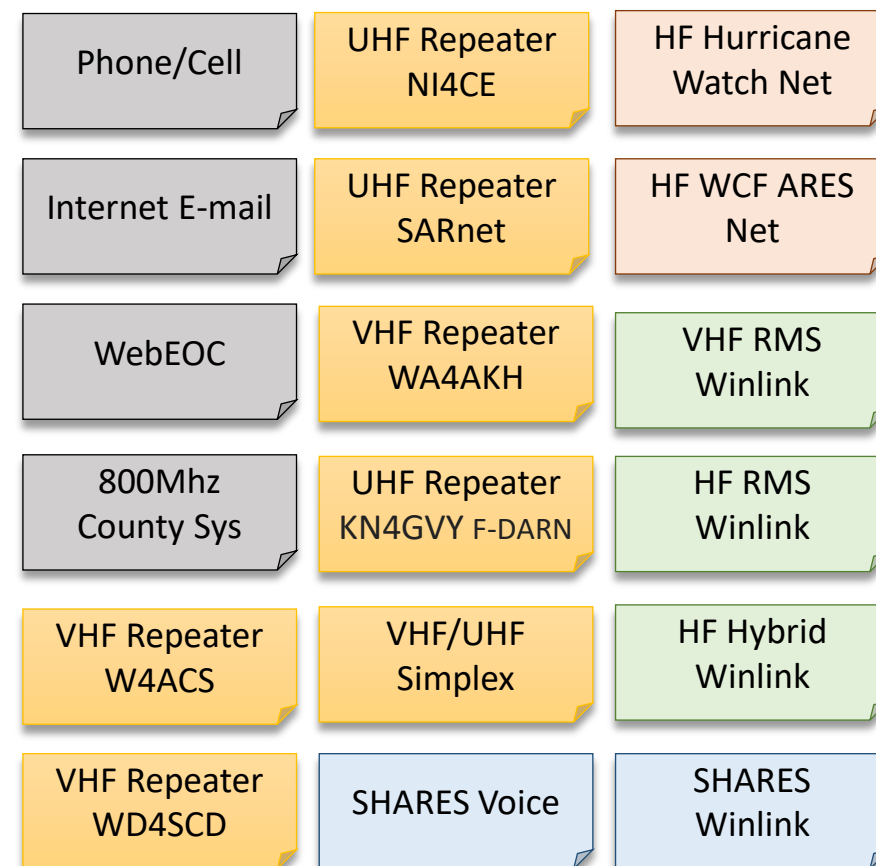
### Pinellas EOC – State EOC



### Health-Welfare



### COMMUNICATIONS RESOURCES



The background of the slide features a large, circular seal for the American Radio Relay League (ARRL) Emergency Communications Section (ECS). The seal has a red outer ring with the text "EMERGENCY COMMUNICATIONS" at the top and "ARRL RADIO AMATEUR OPERATIONS" at the bottom, separated by two stars. The inner blue circle contains illustrations of a satellite, a laptop, a radio tower, and a satellite dish, with yellow lightning bolts indicating radio signals. The acronym "A.C.S." is prominently displayed in yellow at the bottom of the inner circle.

# Tabletop Exercise

**Incident 2 – Major Hurricane**

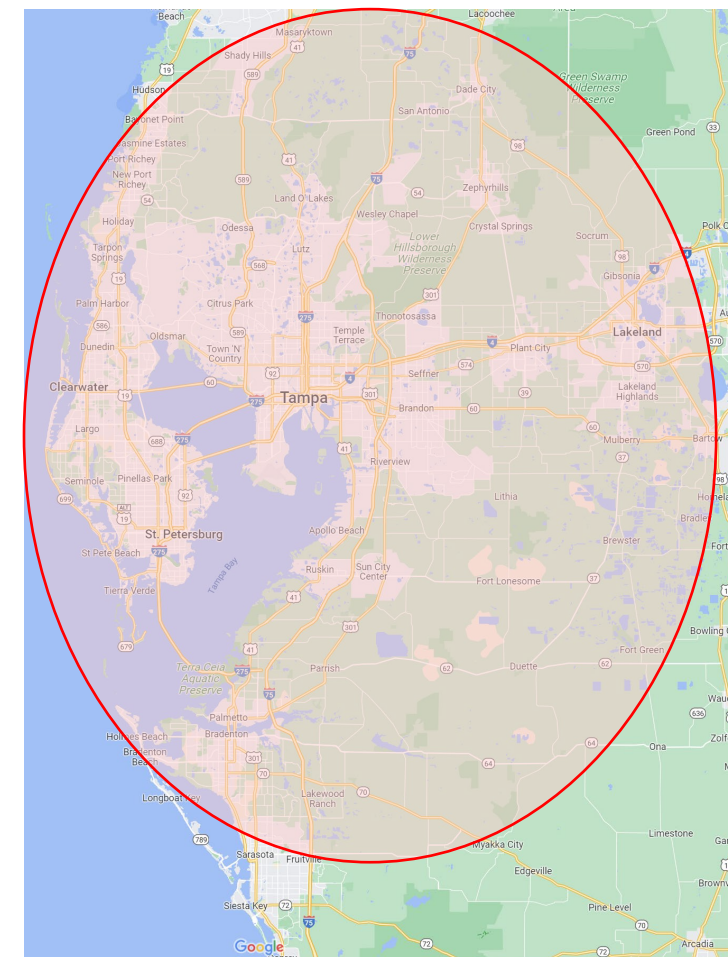


# Pinellas ACS Communications Plan

## Regional Emergency



- Major Hurricane Landfall in Southern Pasco County
  - Pinellas, Pasco, Hillsborough, and Manatee Counties
    - Internet Inoperative
    - Cell service Inoperative
    - Land-line service Inoperative
    - Widespread Power Outages
  - Numerous Evacuation Shelters Open





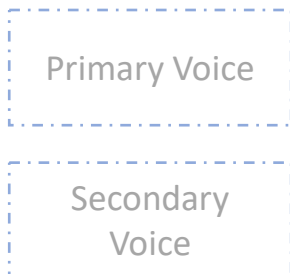


# Pinellas ACS Communications Plan

## Local/Regional Internet - Land Line - Cell Outage



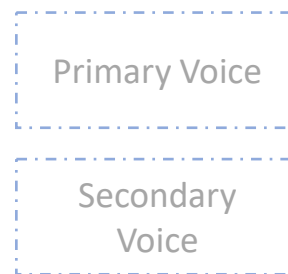
### Local Resource Management



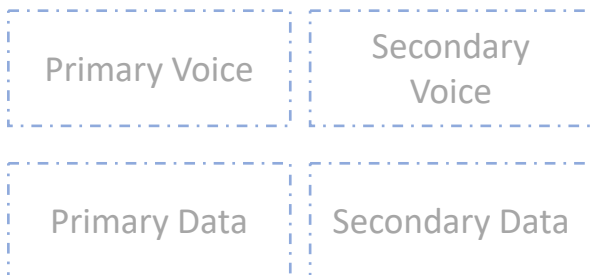
### Shelter – EOC



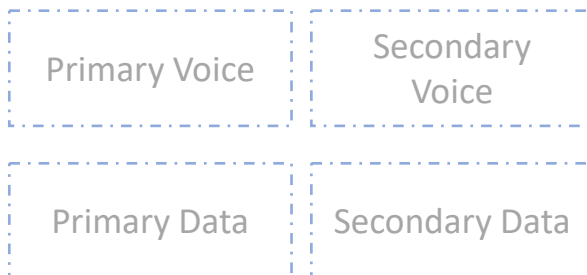
### SKYWARN



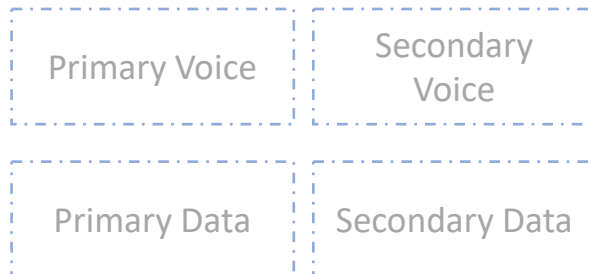
### Pinellas EOC – Local EOCs



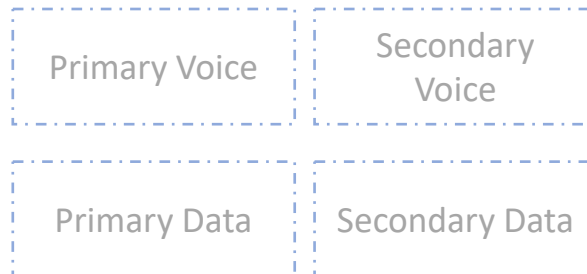
### Pinellas EOC – WCF EOCs



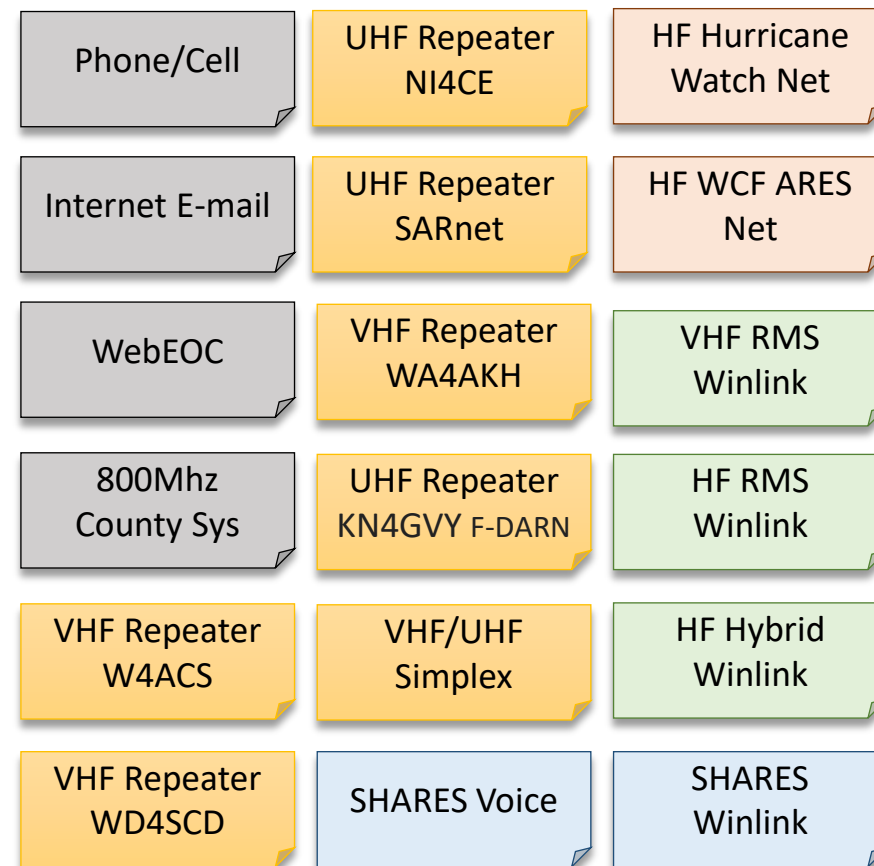
### Pinellas EOC – State EOC



### Health-Welfare



### COMMUNICATIONS RESOURCES



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# Tabletop Exercise

## Incident 3 – Nationwide Cyber Attack



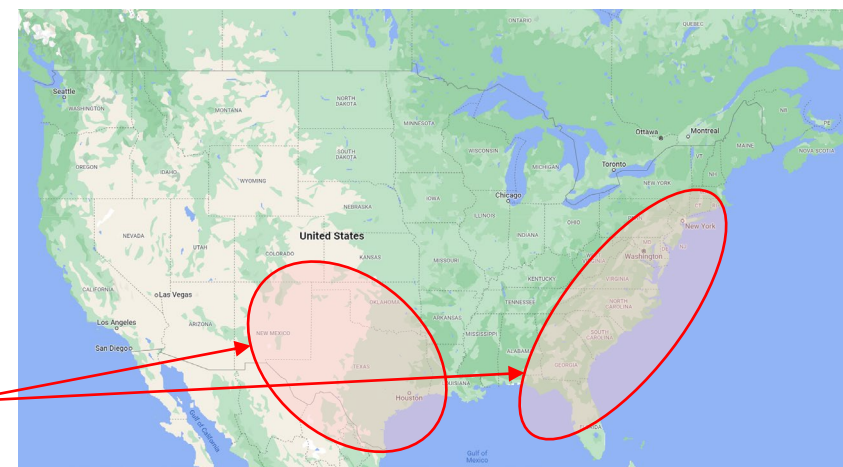
# Pinellas ACS Communications Plan

## Regional/National Emergency



- Nationwide Cyber Attack – August
  - Internet Inoperative - Nationwide
  - Cell service Inoperative
  - Land-line service unavailable in Florida
  - Power grid inoperative in Texas and areas of Eastern US
  - Numerous Shelters opened as cooling centers due to widespread power outages

Power Outages







# Pinellas ACS Communications Plan

## National - Land Line - Cell Outage



### Local Resource Management

Primary Voice

Secondary Voice

### Shelter – EOC

Primary Voice

Secondary Voice

Primary Data  
(Special Needs)

Secondary Data  
(Special Needs)

### SKYWARN

Primary Voice

Secondary Voice

### Pinellas EOC – Local EOCs

Primary Voice

Secondary Voice

### Pinellas EOC – WCF EOCs

Primary Voice

Secondary Voice

Primary Data

Secondary Data

Primary Data

Secondary Data

### Pinellas EOC – State EOC

Primary Voice

Secondary Voice

Primary Data

Secondary Data

### Health-Welfare

Primary Voice

Secondary Voice

Primary Data

Secondary Data

### COMMUNICATIONS RESOURCES

Phone/Cell

UHF Repeater  
NI4CE

HF Hurricane  
Watch Net

Internet E-mail

UHF Repeater  
SARnet

HF WCF ARES  
Net

WebEOC

VHF Repeater  
WA4AKH

VHF RMS  
Winlink

800Mhz  
County Sys

UHF Repeater  
KN4GVY F-DARN

HF RMS  
Winlink

VHF Repeater  
W4ACS

VHF/UHF  
Simplex

HF Hybrid  
Winlink

VHF Repeater  
WD4SCD

SHARES Voice

SHARES  
Winlink