

28^h Governor's Hurricane Conference
May 13, 2013

Developing and Maintaining Effective Situational Awareness

Welcome!

- Instructor Introductions
- Conference Announcements

Training Objectives

- Define Situational Awareness (SA)
- Identify components of both SA and a COP
- Develop awareness of the relationship between SA and effective incident management and decision making

Course Outline

- SA/COP overview and incident management structures.
- Information gathering, documentation and dissemination.
- Leading the SA process and managing expectations.

Participant Introductions

- Name
- Agency
- Role / Position in Emergency Management
- What you a want to get out of this course

SA and COP Overview

Unit 1.1

What are the most common failures during a Disaster?

What are the most common failures during a Disaster?

- Standard Operating Procedures / Guidelines
- Communications Capability
- Resource Management
- Organizational Depth
- Training and Exercise

What is Situational Awareness?

SA Definition 1

- “The perception of elements in the environment within a volume of time and space, the comprehension of their meaning, and the projection of their status in the near future” (Endsley, 1988)

SA Definition 2

- The ability to identify, process, and comprehend the critical information about an incident – knowing what is going on around you – which requires continuous monitoring of relevant sources of information regarding actual incident and developing hazards.
[National Response Framework]

SA Definition 3

- A result of comprehensive information collection, analysis, and dissemination in a context relevant to the authorities and responsibilities of a particular organization level. [FEMA National Incident Support Manual]

Key Elements of SA

- Perception
 - Gathering or collecting information
- Comprehension
 - Interpreting information
- Projection
 - Anticipating future status

Building Situational Awareness

- Who has the best perspective and understanding of the situation?
- How does your proximity to the event affect your SA?
- How are you obtaining your SA?
 - Consider source, how the information is communicated, etc.

Challenges to Obtaining SA

- Gathering Information
- Comprehending and Projecting Information

Group Activity 1.A

- In your table group, discuss the following:
 - How are you currently obtaining your situational awareness?
 - What challenges do you face in obtaining situational awareness?
 - Lessons learned from past events where situational awareness (or lack thereof) played a crucial role in incident management.

What is a Common Operating Picture?

COP Definition 1

- A continuously updated overview of an incident compiled throughout an incident's lifecycle from data shared between integrated systems for communication, information, management, intelligence, and information sharing. [NRF Resource Center]

COP Definition 2

- A shared situational awareness that offers a standard overview of an incident and provides information in a manner that enables incident leadership and any supporting agencies to make effective, consistent, coordinated, and timely decisions. [FEMA National Incident Support Manual]

Key Concepts of a COP

- A single set of relevant, usable information that is shared across response organizations at all levels.
- A continuously updated overview of an incident compiled throughout the incident's lifecycle.

Elements of a COP

- Data
- Information
- Intelligence

Elements of a COP

- **Data** are the pieces of information that amass during an incident from a variety of inputs, including:
 - **911 calls**
 - **Weather reports**
 - **Field communications**
 - **Citizen information lines**
 - **News and social media**

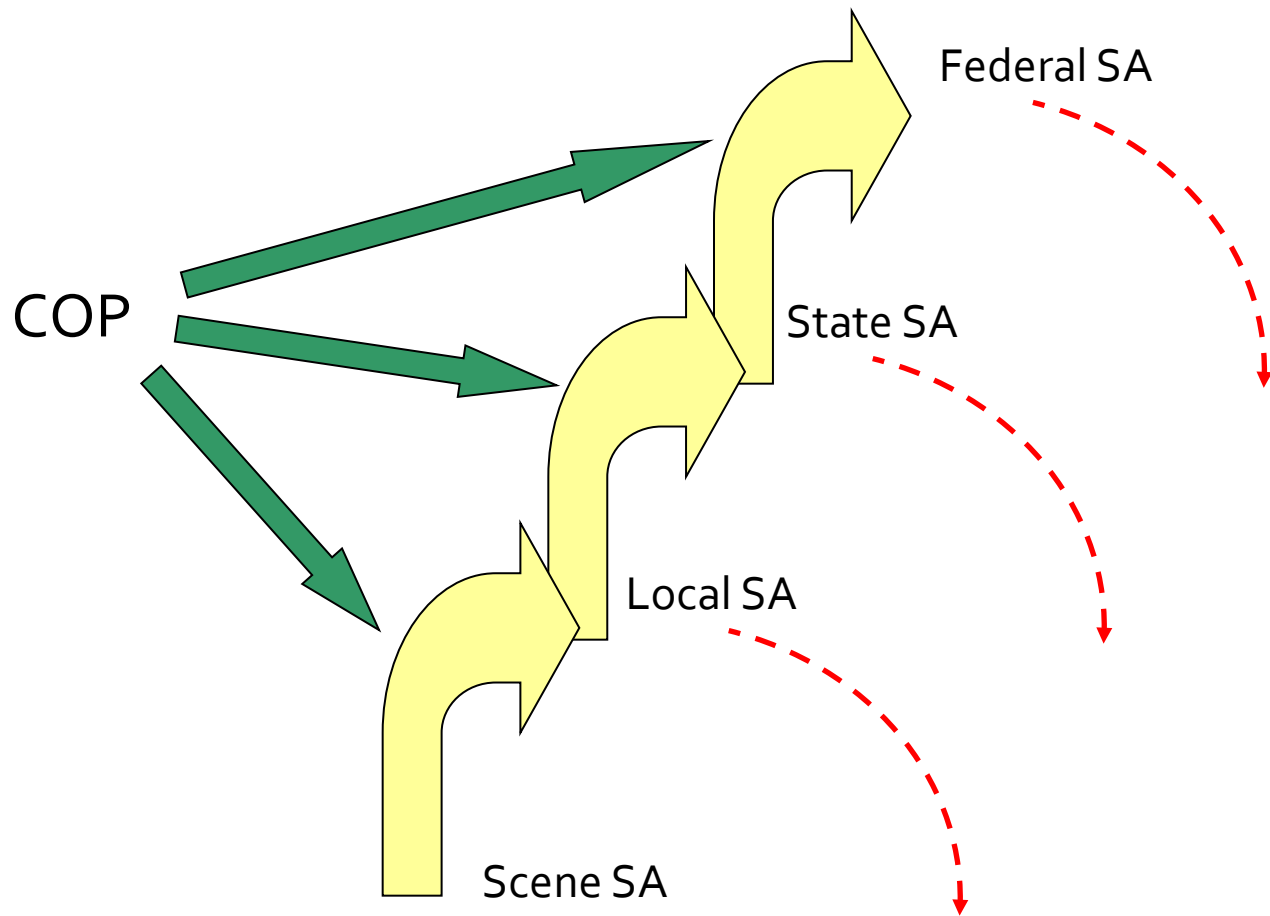
Elements of a COP

- **Information** is created when separate bits of data are put together, organized, and verified into a picture of what is occurring / evolving.
 - As more data is added, the picture usually becomes clearer.
- **Intelligence** results from analyzing the information, and adding findings, conclusions, and recommendations for action.

Considerations when Developing a COP

- Is the information relevant and timely?
- Is the development of action plans necessary?
- Does the information help in maintaining SA?
- There will be different interpretations of details
- Multiple tools may be used

How SA and COP are connected



- SA and COP are dependent on each other
- Sharing your SA via COP helps others achieve SA
- If the event is not continuously monitored, SA will decrease

How SA and COP are connected

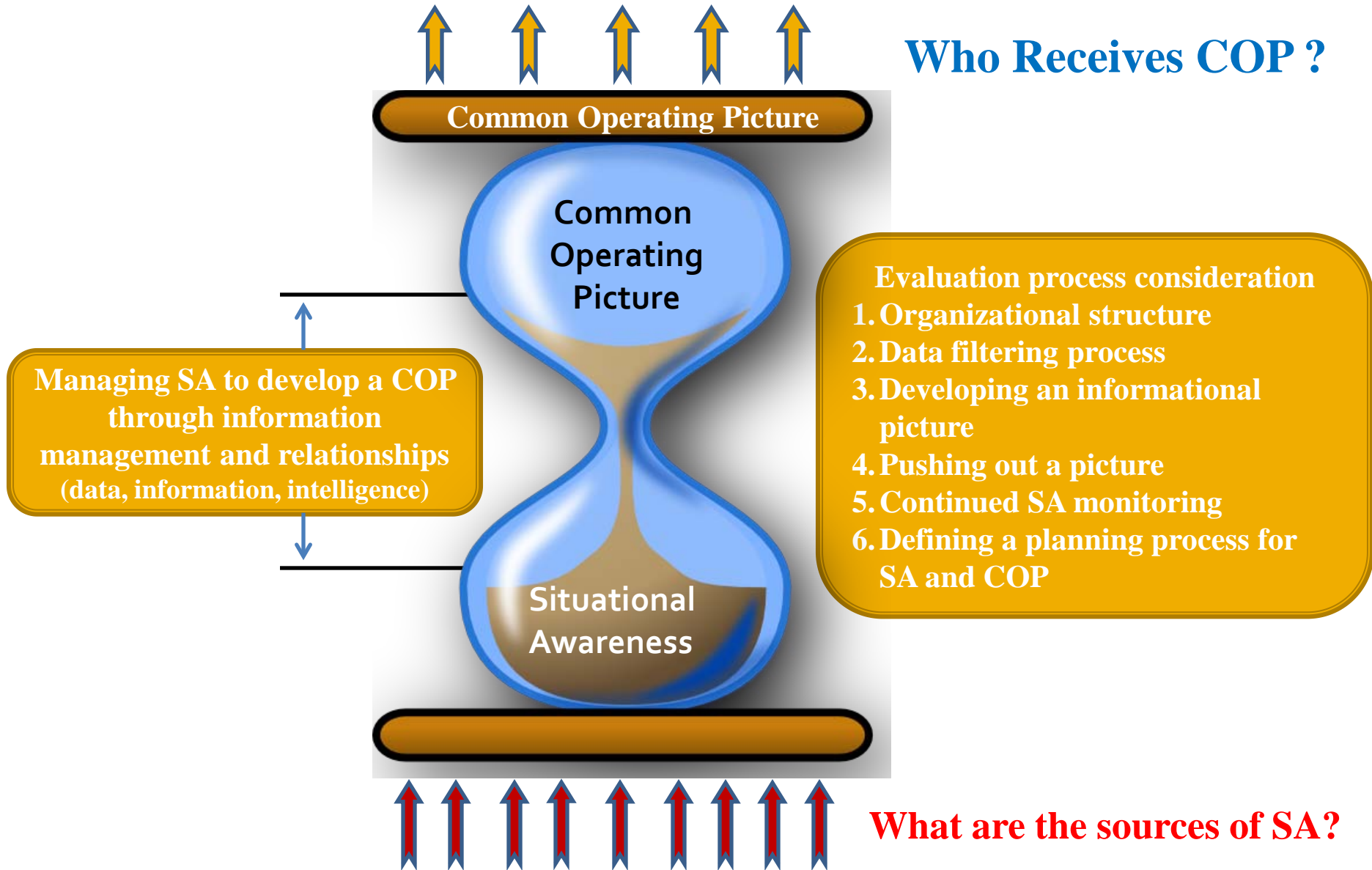
- SA and COP are dependent on each other.
- Sharing your SA via a COP helps others achieve SA.
- If the event is not continuously monitored, SA will decrease.

[FEMA, L948 Course]

How SA and COP Help Response

- Enhance communication
- Establish channels for information sharing
- Coordinates response priorities
- Improves Resource Management

Who Receives COP ?



Incident Management Structures and SA

Unit 1.2

Incident Command System

- Command
 - Establishment and transfer of command
 - Unity of, Chain of, and Unified
- Standardization
 - Common terminology
- Organizational Structure and Control
 - Span of control, modular organization
 - Management by objectives with IAP

Incident Command System

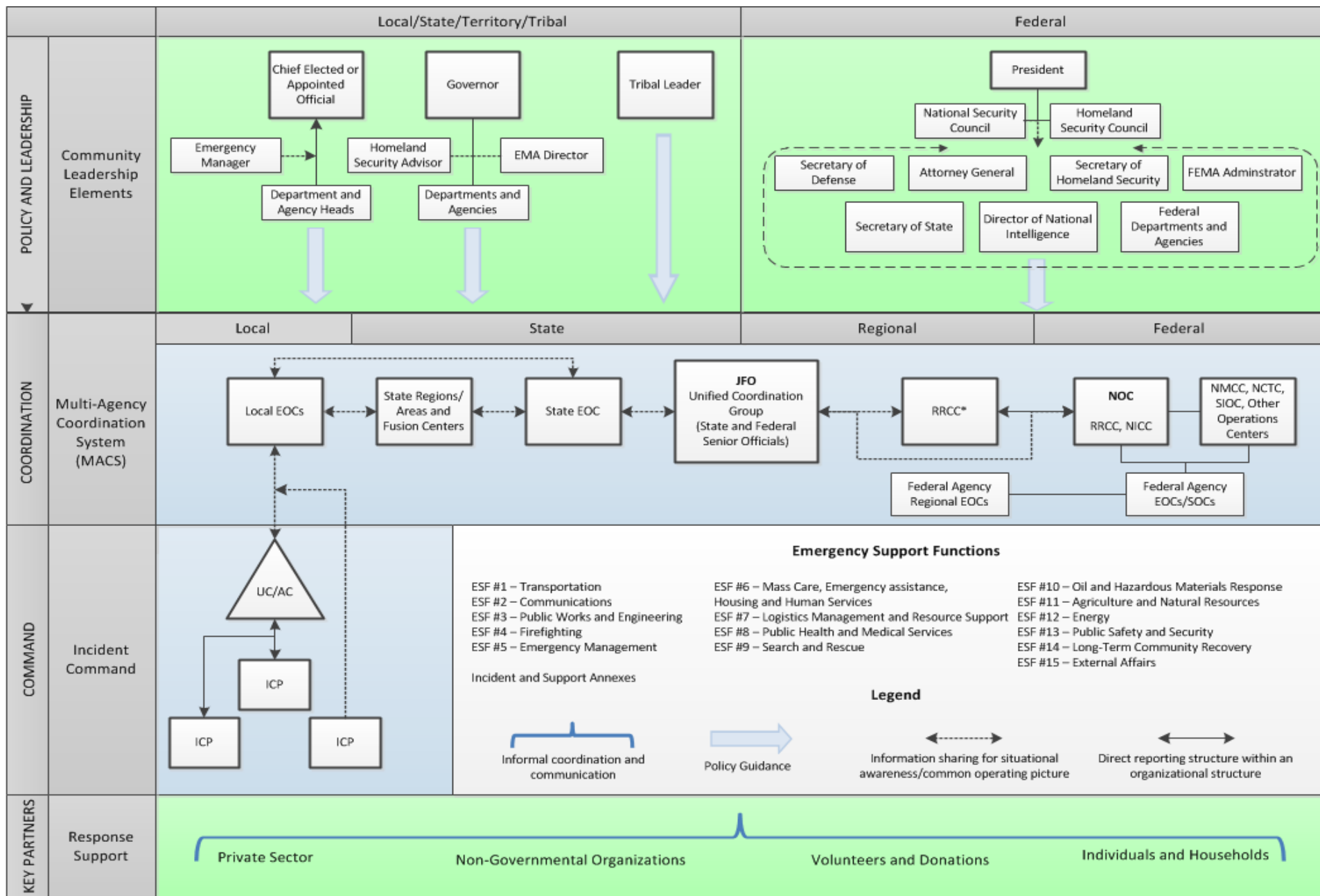
- The **Planning Section** has responsibility for coordinating key components of SA and COP
 - Documentation
 - Situation status
 - Future planning
- All ICS sections and positions contribute to overall SA and COP
 - As SA inputs decrease, so does SA output

Multi-Agency Coordination Systems

- Agencies may develop a Multi-Agency Coordination System (MACS) to define how they will work together efficiently.
- Coordinates activities above the field level and prioritizes incident demands for critical or competing resources.
 - Personnel, procedures, protocols, business practices and communications
 - EOC coordination and support activities

Emergency Operations Centers

- An Emergency Operations Center (EOC) is a physical location at which the coordination of information and resources to support incident management [on-scene operations] takes place
- EOC's integrate information from multiple sources or incidents to establish a COP and provide SA for coordination efforts



EMA – Emergency Management Agency; EOC – Emergency Operations Center; ICP – Incident Command Post; JFO – Joint Field Office; NCTC – National Counterterrorism Center; NICC – National Infrastructure Coordinating Center; NMCC – National Military Command Center; NOC – National Operations Center; NRCC – National Response Coordination Center; RRCC* – Regional Response Coordination Center (RRCC no longer coordinates Federal assets once JFO is established, allowing it to remain ready to respond to new incidents); SICO – Strategic Information and Operations Center; SOC – Secretary’s Operations Center; UC/AC – Unified Command or Area Command.



Unit 1 Review Activity

- Answer the following questions individually, and then discuss with your group.
 - What relationships and incident management structures does my organization rely upon for SA and COP?
 - What existing lines of communication and information management facilitate the sharing of SA and COP?

Information Gathering, Documentation & Dissemination

Unit 2

Obtaining Information

- Organizations should establish an information collection methodology or strategy before an incident occurs.
 - Determining how you will collect information is more difficult if you wait until an incident occurs.
- Collaboration and relationship-building with response partners is an important part of establishing your collection methodology.

Critical Information Requirements

- It is important to define **essential elements of information (EEI)** that identify:
 - Impacted area and population affected
 - Factors inhibiting incident stabilization
 - Human factors (in both response and recovery)
 - Magnitude of the incident and impact on:
 - Maintaining services
 - Protecting citizens, infrastructure, and the environment

Case Study: EM Constellation EEI

- EM Constellation is the primary incident management platform used by the Florida SERT to determine resource needs and document response actions.
- The current EEI tool requires SERT Operations to configure incident periods for collection of elements from counties.

EETool - Then: Operational Periods

Event: Isaac



[Make this my default view](#)

Operating Period Start

Operating Period End

<input type="checkbox"/>	View 2012-08-27 07:00	2012-08-28 07:00	Edit
<input type="checkbox"/>	View 2012-08-26 00:00	2012-08-26 23:59	Edit
<input type="checkbox"/>	View 2012-08-25 08:00	2012-08-25 18:00	Edit

1 2

<input type="checkbox"/>	County Reporting	Entered	Modified		Edit
<input type="checkbox"/>	Bay	2012-08-25 10:09		●	Edit
<input type="checkbox"/>	Broward	2012-08-25 08:46	2012-08-25 14:49	●●	Edit
<input type="checkbox"/>	Calhoun	2012-08-25 16:19			Edit
<input type="checkbox"/>	Charlotte	2012-08-25 09:13	2012-08-25 16:23	●●●	Edit
<input type="checkbox"/>	Collier	2012-08-25 09:14	2012-08-25 16:23	●●●	Edit
<input type="checkbox"/>	DeSoto	2012-08-25 09:15	2012-08-25 16:23	●●●	Edit
<input type="checkbox"/>	Dixie	2012-08-25 12:04			Edit
<input type="checkbox"/>	Glades	2012-08-25 09:16	2012-08-25 16:24	●●	Edit

EEI Tool - Then: County View

Collier County

[Back](#)[Edit](#)

Operating Period:

▼ **County EOC Status**

Status

Description

▼ **Local State of Emergency**

Status

Description

▼ **Evacuation**

Status

Description

▼ **Shelters**

Status

Description

▼ **Shelter Capacity**

Status

Description

EEI Tool - Now

- Live Demo:

<https://seoc.floridadisaster.org/emcx>

EMC EEI Tool – Lessons Learned

- County operational periods do not always follow the same operational periods of the SERT.
- Use of operational periods to compartment EEI caused duplication of effort and de-amplified county messaging.
 - All fields had to be entered each period, If county information changed since last update.
 - Submission of information decreased as incident evolved –particularly where counties were transitioning to the recovery process.

Collecting & Managing Information

- Develop a baseline of information to allow comparison to new information throughout the incident lifecycle
- Determine what types of information are sensitive / need to know vs. open sharing
- Define how data and information will be provided and exchanged
 - Both formal and informal lines of communication
- Define for process for determining credibility of information. Ground truth; trust but verify.

Responsibility for Information Flow

- Incident Commander / Policy Group are ultimately responsible for ensuring adequacy of information.
 - Extends to other levels of the response organizational structure.
 - Extends to other agencies/jurisdictions in an MACS.
 - Enhanced by strong relationships before an incident.

Information Sources

- Incident information can come from many sources, including:
 - Incident command
 - Governmental entities
 - Non-governmental organizations
 - Private sector response partners
 - Citizen reports
 - News media
 - Social media and internet sources

Information Sources

- Information sources that support initial and ongoing situational awareness:
 - Emergency Operations Centers
 - Public Safety Answering Points / Dispatch Centers
 - Warning Points / Watch Centers
 - Fusion Centers
 - Geographic information and mapping systems
 - Open intelligence sources
 - CCTV and converged voice/data networks

Benefits of Technology

Unit 2.2

Benefits of Technology

- Technology enables an improved ability to collect, analyze, communicate, and consume information
- Technology products and outputs must match the workflow and incident rhythm of the users and provide the right information in the right place in the right format

Benefits of Technology (cont.)

- Technology must be:
 - Reliable
 - Consistently available
 - Cost Effective
 - Efficient and can reduce staff level of effort

Benefits of Technology (cont.)

- Technology must be:
 - Familiar
 - Users must know how to use it before the incident
 - Informative
 - Provide some tangible value-added capability
 - Trusted
 - Provide accurate information

Benefits of Technology (cont.)

- Technology not meeting these criteria will either be considered a luxury or a distraction
- These technologies will not be primary sources of support to decision making and are likely irrelevant

Technology Tools Contribute to SA and COP

- The following tools support information collection and sharing:
 - Internet
 - Conventional Databases
 - GIS and GPS
 - Models
 - Sensor Networks
 - Portable Data Collectors
 - Imaging

Technology Tools (cont.)

- Internet
 - Provides dynamic information access and a platform for distributing data, models, and tools as services
- Conventional databases
 - Collect, analyze, and outputs reports, dashboard, and charts for consumption
 - MS SQL Server, Oracle, MySQL

Technology Tools (cont.)

- Geographic Information Systems (GIS)
 - Provides visualization of data and integrates with other geospatial data providing greater context
- Models
 - Create simulated outputs to inform planning or early response
 - HAZUS, Aloha

Technology Tools (cont.)

- Global Positioning System (GPS)
 - Provides means to attach data collected in the field to a spatial framework for inclusion in GIS – a “GIS data collector”
- Sensor Networks
 - Collect continuous information at known locations to feed and validate models and provide site specific information

Technology Tools (cont.)

- Portable Data Collectors
 - Provide the means for collecting data once and rapidly sharing it with databases for integration with other information systems
 - Bar codes, Radio Frequency Identification (RFID)
- Imaging
 - Provides visual evidence of situation and can provide a static and objective picture

Data and Communication Standards

- Standard:
 - Common technical parameters must allow for integration of data collected by different locations and organizations
 - Example: Data from thousands of weather stations must adhere to standards to allow for its inclusion in standard weather models
 - Example: Initial damage assessments from the counties

Data and Communication Standards

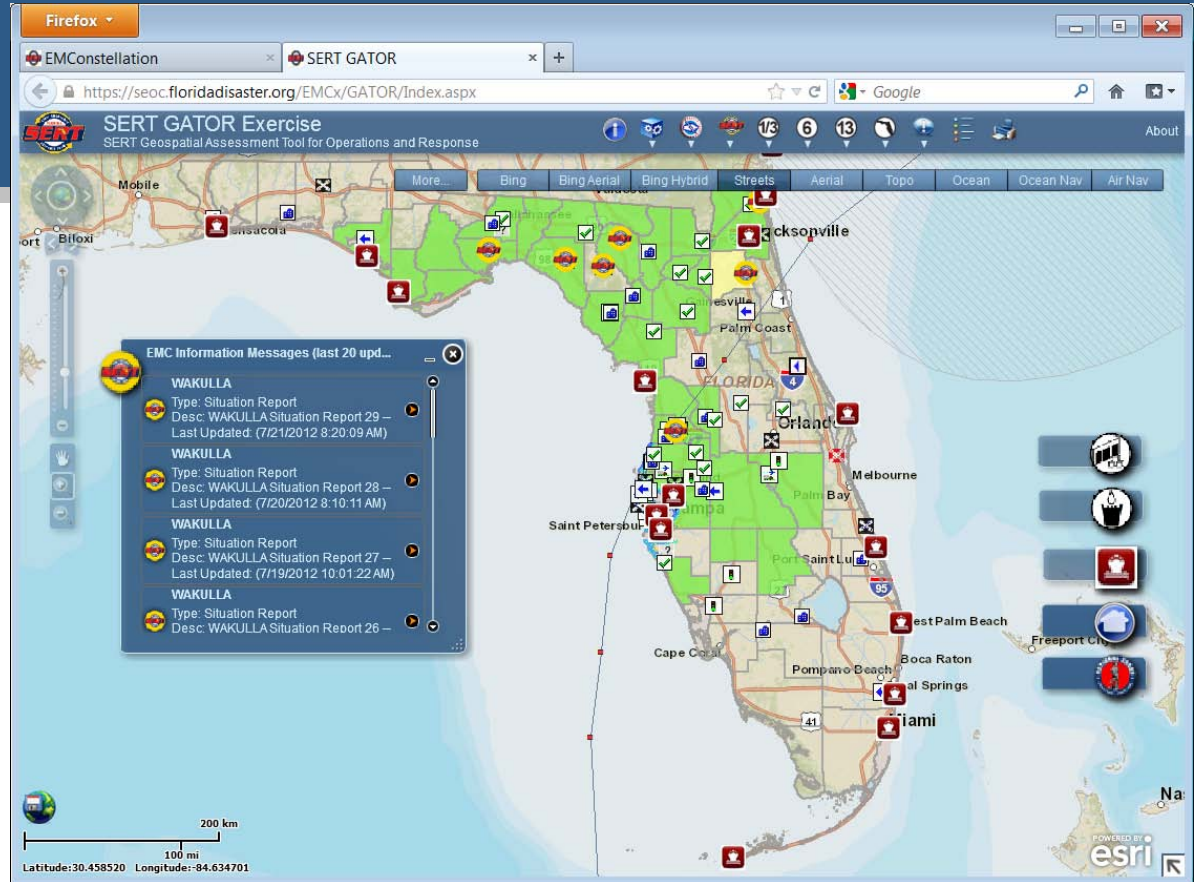
- Contain details relating to the naming, content, structure, format, and metadata of data to be exchanged
- Allow for the efficient exchange and integration of data and information
- **INTEROPERABILITY!!!**

DHS and FEMA Technology Tools

- Homeland Security Information Network
- DHS OneView
- DHS Earth
- Automated Critical Assessment Management System
- Situational Awareness Viewer for Emergency Response and Recovery

Florida Division of Emergency Management

SERT Situational Awareness



Richard Butgereit
richard.butgereit@em.myflorida.com
GIS Administrator
850-413-9907



**GET A
PLAN!**
FloridaDisaster.org

EM Constellation

- EM Constellation is the web-based information management software platform adopted by the State of Florida for emergency management.
- The platform allows the State Emergency Response Team composed of county, state, federal, volunteer, and mutual aid entities to use the same operating environment when responding to and recovering from an emergency.



EM Constellation

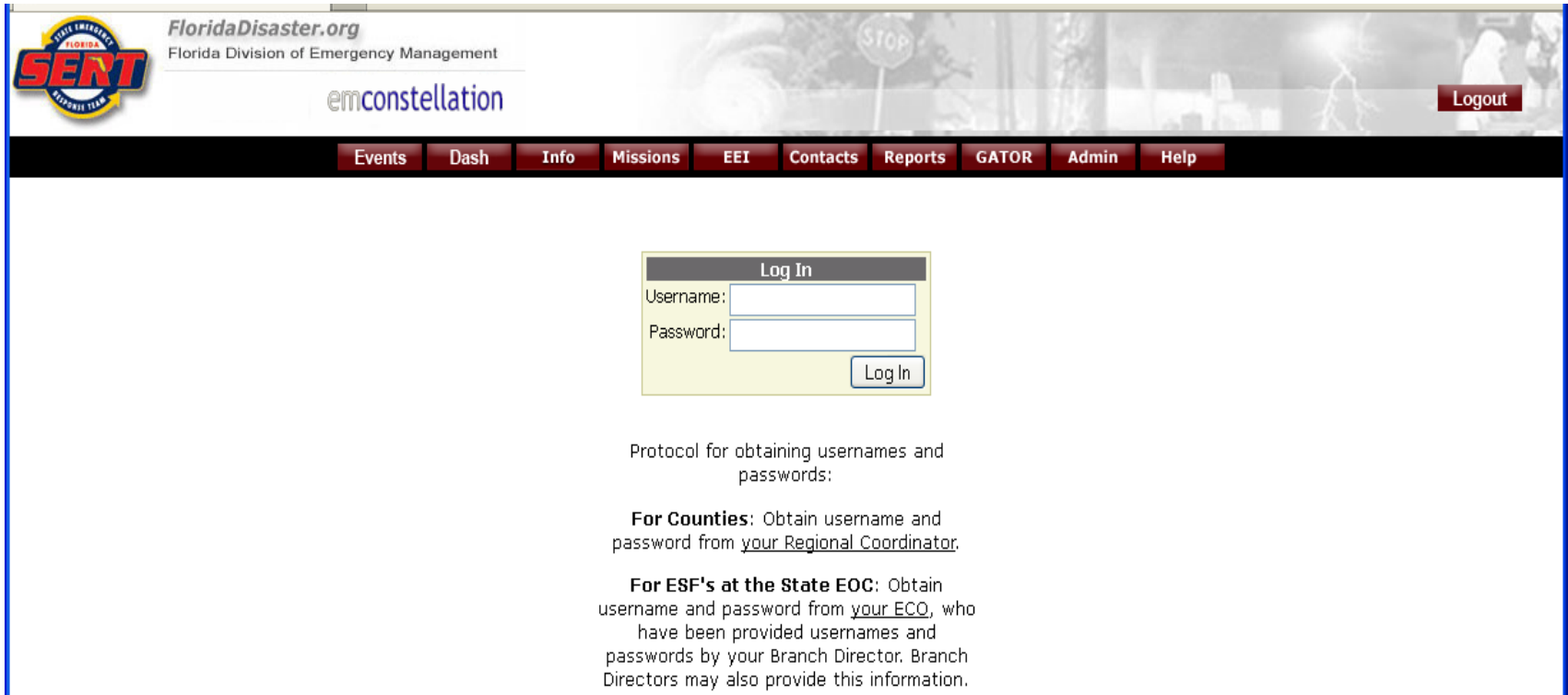
- Requests for assistance may be made through the platform, these requests approved and tasked as missions, and tracked throughout their life cycle.
- Information messages like situation reports, press releases, and incident action plans may also be shared through the platform.
- Having this information all in one place allows for effective response to and recovery from emergencies while documenting events for reimbursement and after-action-reporting.



EM Constellation

EM Constellation is available at <https://seoc.floridadisaster.org/emc>

EMCx, or EMC for EXercises, is available at <https://seoc.floridadisaster.org/emcx>



The screenshot shows the web interface for EM Constellation. At the top left is the Florida SERT logo. The header includes the text "FloridaDisaster.org" and "Florida Division of Emergency Management". The main title "emconstellation" is centered. A navigation bar contains buttons for "Events", "Dash", "Info", "Missions", "EEI", "Contacts", "Reports", "GATOR", "Admin", and "Help". A "Logout" button is in the top right. The central area features a "Log In" form with fields for "Username:" and "Password:", and a "Log In" button. Below the form, text explains the protocol for obtaining credentials: "Protocol for obtaining usernames and passwords:" followed by instructions for "Counties" (obtain from Regional Coordinator) and "ESF's at the State EOC" (obtain from ECO or Branch Director).

FloridaDisaster.org
Florida Division of Emergency Management

emconstellation

Logout

Events Dash Info Missions EEI Contacts Reports GATOR Admin Help

Log In

Username:

Password:

Log In

Protocol for obtaining usernames and passwords:

For Counties: Obtain username and password from your Regional Coordinator.

For ESF's at the State EOC: Obtain username and password from your ECO, who have been provided usernames and passwords by your Branch Director. Branch Directors may also provide this information.



**GET A
PLAN!**
FloridaDisaster.org

Dashboard Views – Screen after Configuration



FloridaDisaster.org
Florida Division of Emergency Management

emconstellation

Logout

Events Dash Info Missions EET Contacts Reports GATOR Admin Help

Event: Hurricane Griffin

Choose Widgets Design View

It+ Timer [2]

Settings

Event: Hurricane Suiter landfall in SE FL
Start: 5/8/2012 10:30:00 PM

Days	Hours	Minutes	Seconds
0	00	00	00

Event: New Created by Franklin
Start: 3/14/2012 11:22:00 AM
Test

Days	Hours	Minutes	Seconds
0	00	00	00

Mission Status [2]

Settings

- Assigned
- Canceled
- Complete
- Denied
- Tasked
- Update

Total Days Activated

Settings Report

Event: Level 1 for Hurricane Suiter
Start: 4/8/2012 12:00:00 PM
Level: Level 1

Months	Days	Hours	Minutes	Seconds
1	8	22	17	44

Battle Rhythm [2]

Settings

5/17/2012
Thursday
SERT Desk

Activity is > 30 Minutes away	Activity 15 to 30 Minutes Away	Activity is 15 Minutes Away
Activity has Started		Activity has closed

Shelter Status [2]

# of Shelters/County	# of Shelters	# of Special
YAVAPAI	2	

[Click here for statewide summary](#)

FloridaDisaster.org | Contact the Webmaster | Reset Your Password

LOG OUT



GET A PLAN!
FloridaDisaster.org

Dashboard – Battle Rhythm

- Allows a user to view activities (meetings, conference calls, briefings) for the State EOC and to view/input activities for his/her specific Desk
- Dashboard view will display the time, location, activity name, and owner plus additional information
- Activities will be color highlighted as the activity nears (Upcoming = Blue, 30 minutes away = Yellow, 15 minutes away = Orange, Activity has started = Red)

Battle Rhythm

Settings

< 5/18/2012 >

Friday

SERT Desk

Date	Activity	Owner	Location	
05-18-2012 13:40 PM	EMC Discussion	Richard Butgereit	120-C	View
05-18-2012 14:00 PM	End of Day Briefing	Richard Butgereit	SEOC	View

Activity is > 30 Minutes away Activity 15 to 30 Minutes Away Activity is 15 Minutes Away

Activity has Started Activity has closed



**GET A
PLAN!**
FloridaDisaster.org

Dashboard – H+ Timer

- Allows an administrator to enter an Event Name, Date/Time, and Description to start a timer for an Event
- Original intent: Post-landfall Countdown for a Tropical Storm, but could also be used to indicate a specific timeframe after any type of emergency event

Top Right

H+ Timer

Settings

Event: Hurricane Griffin
Start: 10/19/2011 11:03:00 AM
Landfall occurred at 17:50 on October 19th

Days	Hours	Minutes	Seconds
0	00	00	00

Event: Test Timer
Start: 10/31/2011 11:15:00 AM
Testing, one, two....

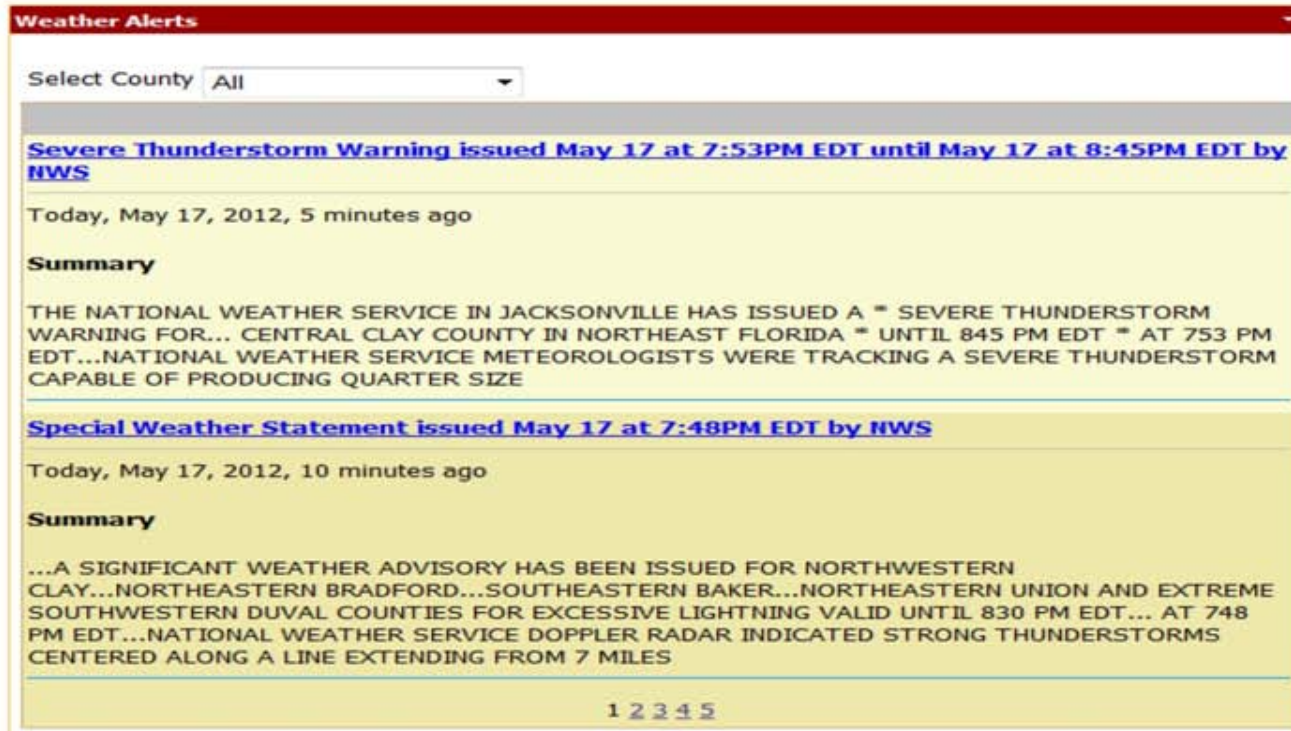
Days	Hours	Minutes	Seconds
1	20	32	27




**GET A
PLAN!**
FloridaDisaster.org

Dashboard – Weather Alerts

- Allows a user to track weather warnings and watches on a county basis
- Users can link to the actual warning/watch message from the NWS feed



The screenshot shows a web interface titled "Weather Alerts". At the top, there is a red header bar. Below it, a "Select County" dropdown menu is set to "All". The main content area has a light yellow background and contains two alert entries. The first entry is a "Severe Thunderstorm Warning issued May 17 at 7:53PM EDT until May 17 at 8:45PM EDT by NWS", with a timestamp of "Today, May 17, 2012, 5 minutes ago". Below this is a "Summary" section with text: "THE NATIONAL WEATHER SERVICE IN JACKSONVILLE HAS ISSUED A * SEVERE THUNDERSTORM WARNING FOR... CENTRAL CLAY COUNTY IN NORTHEAST FLORIDA * UNTIL 845 PM EDT * AT 753 PM EDT...NATIONAL WEATHER SERVICE METEOROLOGISTS WERE TRACKING A SEVERE THUNDERSTORM CAPABLE OF PRODUCING QUARTER SIZE". The second entry is a "Special Weather Statement issued May 17 at 7:48PM EDT by NWS", with a timestamp of "Today, May 17, 2012, 10 minutes ago". Below this is another "Summary" section with text: "...A SIGNIFICANT WEATHER ADVISORY HAS BEEN ISSUED FOR NORTHWESTERN CLAY...NORTHEASTERN BRADFORD...SOUTHEASTERN BAKER...NORTHEASTERN UNION AND EXTREME SOUTHWESTERN DUVAL COUNTIES FOR EXCESSIVE LIGHTNING VALID UNTIL 830 PM EDT... AT 748 PM EDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED STRONG THUNDERSTORMS CENTERED ALONG A LINE EXTENDING FROM 7 MILES". At the bottom of the alert list, there are navigation links "1 2 3 4 5".



Click on link to view Alert



GET A PLAN!
FloridaDisaster.org



- Missions – from the dashboard for an event, you may click Info to view or create Missions for that event.
- Missions are requests for resources initiated to support the event being managed.
- Missions are requested (by counties or ESFs), “assigned” to branches; and then “tasked” (usually to ESFs)



Missions



FloridaDisaster.org
Florida Division of Emergency Management

emconstellation

Logout

Events Dash Info **Missions** EEI Contacts Reports GATOR Admin Help

Icon Key

Event: 2009 Statewide Hurricane Exercise - Hurricane Suiter

ES FIN HS INFRA LOG OPS PLANS RECOV Region: Select Desk: Select Filter: Select Save: Save Filter
 Search Clear Advanced All Missions New Mission Follow Selected Make this my default view

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 ...

Mission	Status	Follow	Title	Tasked to	Desk	Entered	
930	Tasked	<input type="checkbox"/>	Seminole County requests DMORT team	ESF08	SEMINOLE	2009-06-03 10:59	Update
929	Tasked	<input type="checkbox"/>	Lafayette County requests Mobile Air Conditioning/...	LOGISTICS	LAFAYETTE	2009-06-03 10:54	Update
928	Complete	<input type="checkbox"/>	Request Lodging and Support Services at Base Camps...		ESF15	2009-06-03 10:27	Update
927	Canceled	<input type="checkbox"/>	Wakulla County Requests USAR - Duplicate see #924		WAKULLA	2009-06-03 10:15	Update
926	Complete	<input type="checkbox"/>	Tech Services requests HOTWASH Briefing Slides	TECHSERV	TECHSERV	2009-06-03 10:14	Update
925	Tasked	<input type="checkbox"/>	VOLUNTEERS NEEDED AT 93rd COMMUNITY BAPTIST CHURCH...	ESF15	TRAIN_ESF	2009-06-03 10:10	Edit Update
924	Tasked	<input type="checkbox"/>	Wakulla County Requests One USAR Team	ESF04_09	BranchOpsSup	2009-06-03 10:04	Update
923	Tasked	<input type="checkbox"/>	ESF 15 request roofing supplies to mitigate and ap...	LOGISTICS	ESF15	2009-06-03 09:58	Update
922	Tasked	<input type="checkbox"/>	Requesting Intel Analysts from FDLE Fusion Center ...	ESF16	ChiefPLANS	2009-06-03 09:57	Update
921	Assigned	<input type="checkbox"/>	Escambia requests two (2) Type 3 nursing strike t...	ESF08	ESCAMBIA	2009-06-03 09:49	Update
920	Enroute	<input type="checkbox"/>	Manatee County Requests Diesel Fuel	ESF12Fuels	Train_CO	2009-06-03 09:31	Update
919	Tasked	<input type="checkbox"/>	Seminole County requests 1000 sandbags	ESF01_03	SEMINOLE	2009-06-03 09:30	Update



GET A PLAN!
FloridaDisaster.org



- Info – from the dashboard for an event, you may click Info to view Information Messages for that event.
- Information messages include –
 - situation reports
 - press releases
 - incident action plans
 - protective actions
 - maps
 - weather updates & many more



Information Messages



FloridaDisaster.org
Florida Division of Emergency Management

emconstellation



Logout

Events Dash Info Missions EET Contacts Reports GATOR Admin Help

Event: 2011 Statewide Hurricane Exercise - Hurricane Griffin

SitReps IAPs Press Maps Weather Region: Select Desk: Select Filter: Select Save: Save Filter

Search Clear Advanced All Information New Info Message Follow Selected Make this my default view

1 2 3 4 5 6 7 8 9 10 ...

Message	Follow	Title	Author	Desk	Entered	
267	<input checked="" type="checkbox"/>	Alachua Power Outage	Training1	TRABN_ESF	2012-05-16 14:42	Edit Respond
266	<input type="checkbox"/>	A 2nd Supporting Message	Training1	TRABN_ESF	2012-05-16 14:01	Edit Respond
265	<input type="checkbox"/>	Supporting information message test	RichardB	site_admin	2012-02-06 18:07	Respond
264	<input type="checkbox"/>	LAKE Situation Report	LAKE	LAKE	2011-08-09 15:45	Respond
263	<input checked="" type="checkbox"/>	LAKE IAP	LAKE	LAKE	2011-08-09 15:43	Respond
262	<input checked="" type="checkbox"/>	MANATEE After Action Report	MANATEE	MANATEE	2011-07-19 10:33	Respond
261	<input type="checkbox"/>	ALACHUA IAP	ALACHUA	ALACHUA	2011-06-20 10:35	Respond
260	<input checked="" type="checkbox"/>	ALACHUA Situation Report	ALACHUA	ALACHUA	2011-06-20 10:27	Respond
259	<input checked="" type="checkbox"/>	MANATEE General Information	MANATEE	MANATEE	2011-06-14 10:24	Respond
258	<input type="checkbox"/>	ALACHUA Situation Report	ALACHUA	ALACHUA	2011-06-09 11:57	Respond
257	<input type="checkbox"/>	LIBERTY Legal / Declaration / Exec. Order	LIBERTY	LIBERTY	2011-05-27 12:28	Respond
256	<input type="checkbox"/>	INDIANRIVER Resources Available / Donations - followup repor...	INDIAN RIVER	INDIANRIVER	2011-05-27 07:53	Respond
255	<input type="checkbox"/>	SARASOTA Situation Report	SARASOTA	SARASOTA	2011-05-26 15:09	Respond
254	<input type="checkbox"/>	SARASOTA IAP	SARASOTA	SARASOTA	2011-05-26 14:26	Respond
253	<input checked="" type="checkbox"/>	OSCEOLA Situation Report	OSCEOLA	OSCEOLA	2011-05-26 14:03	Respond
			LIBERTY	LIBERTY	2011-05-26 11:58	Respond



- Essential Elements of Information - provides forms for collecting information from county-level emergency management on critical preparedness and response status factors
- EEI elements include –
 - county EOC activation level
 - local state of emergency declared
 - shelters, evacuation orders, power outages, water supply
 - communications, road closures, and more...



**GET A
PLAN!**
FloridaDisaster.org

Essential Elements of Information	Reporting Agency	GRAY	RED	YELLOW	GREEN
Unconfirmed Casualties	County/RC/SERT Liaison	Not Reporting	Fatalities reported	Injuries reported	No Casualties reported
Confirmed Casualties	State: ESF 16	Not Reporting	Fatalities reported	Injuries reported	No Casualties reported
Under Executive Order	State: ESF 5	No EO	Under Executive Order		EO Expired
County Emergency Operation Centers Status	County/RC/SERT Liaison	Not Activated or Not Reporting	Full Activation	Partial Activation	Returned to Monitoring
Local State of Emergency	County/RC/SERT Liaison	Not Declared or Not Reporting	Declared	Under consideration	Expired
Evacuation Status	County/RC/SERT Liaison	No Evacuations or Not Reporting	Mandatory	Voluntary/Phased	Evacuation Lifted
Re-Entry Status	County/RC/SERT Liaison	Not Evacuated or Not Reporting	No Re-Entry	Re-Entry with Qualifiers	Re-Entry without Qualifiers
Shelters (General)	County/RC/SERT Liaison	Not Sheltering or Not Reporting	Open	Standby	Closed
Shelters (Special Needs)	County/RC/SERT Liaison	Not Sheltering or Not Reporting	Open	Standby	Closed
Shelters (Pet)	County/RC/SERT Liaison	Not Sheltering or Not Reporting	Open	Standby	Closed
School Status	County/RC/SERT Liaison	No Closures or Not Reporting	Closed	Some Closures	Reopened
County Government Office Status	County/RC/SERT Liaison	No Closures or Not Reporting	Closed	Some Closures	Reopened
State Government Office Status	State: ESF 5	No Closures or Not Reporting	Closed	Some Closures	Reopened
Generating Capacity	State: ESF 12	No Generating Capacity Issues or Not Reporting	Generating Capacity Emergency	Generating Capacity Alert	Generating Capacity Restored
Power Outages	State: ESF 12	No Outages or Not Reporting	Greater than 20% of customers are out	Between 20% and 2% of customers are out	Less than 2% of customers are out
Power Restoration	State: ESF 12	No Outages or Not Reporting	Greater than 72 hours before 98% restoration	Less than 72 hours before 98% restoration	Restored



GET A PLAN!
FloridaDisaster.org

Essential Elements of Information	Reporting Agency	GRAY	RED	YELLOW	GREEN
County Public Safety Communication Outages	County/RC/SERT Liaison	Normal or Not Reporting	Widespread	Limited	Restored
State Public Safety Communication Outages	State: ESF 2/Ops	Normal or Not Reporting	Widespread	Limited	Restored
Critical Road and Bridge Closures	TBD	No Closures or Not Reporting	Widespread	Limited	Reopened
Emergency Services	County/RC/SERT Liaison	Normal or Not Reporting	Out of County Mutual Aid Required/On scene	Emergency Staffing Plans Implemented	Returned to Normal Operations
Search and Rescue	County/RC/SERT Liaison	No Operations or Not Reporting	Required	Ongoing	Completed
Health and Medical Services	State: ESF 8	No Disruption of Services or Not Reporting	Significant Disruption	Partial Disruption	Services Restored
Potable Community Public Water Systems	State: ESF 3/10	Normal or Not Reporting	50% or less are Operational	50%-90% are Operational	90% or Greater are Operational
Waste Water System	State: ESF 3/10	Normal or Not Reporting	Widespread disruption	Limited disruption	Services restored
Commercial Wire Line Communication Outages	State: ESF 2	Normal or Not Reporting	Widespread	Limited	Restored
Commercial Wireless Communication Outages	State: ESF 2	Normal or Not Reporting	Widespread	Limited	Restored
Commercial Network Communication Outages	State: ESF 2	Normal or Not Reporting	Widespread	Limited	Restored
Local Government Fuel Status	County/RC/SERT Liaison	Not Reporting	1-2 days supplies on hand	3-7 days supplies on hand	8+ days supplies on hand
Major Retailer Operations	State: ESF 18/Fl. Retail Federation	No Closures or Not Reporting	Closed	Open/Limited Operations or Supplies	Services Restored
Debris Management	State: Recovery	Not Needed or Not Reporting	Requested	Ongoing	Completed
Hotel / Motel Availability	Fl. Restaurant and Lodging Assoc./Visit FL	Not Reporting	Less than 10% room availability countywide	Less than 25% room availability countywide	More than 25% room availability countywide



GET A PLAN!
FloridaDisaster.org

Essential Elements of Information	Reporting Agency	GRAY	RED	YELLOW	GREEN
Joint Public Assistance Preliminary Damage Assessment	State: Recovery/ESF 5	Not Requested or Not Reporting	Requested	Scheduled or In Progress	Completed
Joint Individual Assistance Preliminary Damage Assessment	State: Recovery/ESF 5	Not Requested or Not Reporting	Requested	Scheduled or In Progress	Completed
Public Assistance Declaration	State: ESF 5	Not Declared or Not Requested	Declared	Request Submitted	Preparing Request
Individual Assistance Declaration	State: ESF 5	Not Declared or Not Requested	Declared	Request Submitted	Preparing Request
Small Business Administration Declaration	State: ESF 5	Not Eligible or Not Reporting	Declared	Request Submitted	Preparing Request
State Small Business Emergency Bridge Loan	State: ESF 5	Not Eligible or Not Reporting	Declared	Request Submitted	Preparing Request
State Disaster Unemployment Assistance	State: ESF 6	Not Eligible or Not Reporting	Declared	Request Submitted	Preparing Request
Disaster Supplemental Nutrition Assistance	State: ESF 6	Not Eligible or Not Reporting	Declared	Request Submitted	Preparing Request
Reimbursable Vector Control	State: Operations	Not Requested or Not Reporting	Requested	Approved	Completed



**GET A
PLAN!**
FloridaDisaster.org



- GATOR – from anywhere in EMC, you may click GATOR to open GATOR, or the Geospatial Assessment Tool for Operations and Response
- GATOR is the flagship common operation picture/situational awareness, web-based map viewer for the FDEM and the SERT.



Open Access

Secured Access

Real-World

GATOR

<http://map.floridadisaster.org/gator>

SERT GATOR

**access through EM
Constellation**

Exercise

GATORx

<http://map.floridadisaster.org/gatorx>

SERT GATORx

**access through
EMCx**



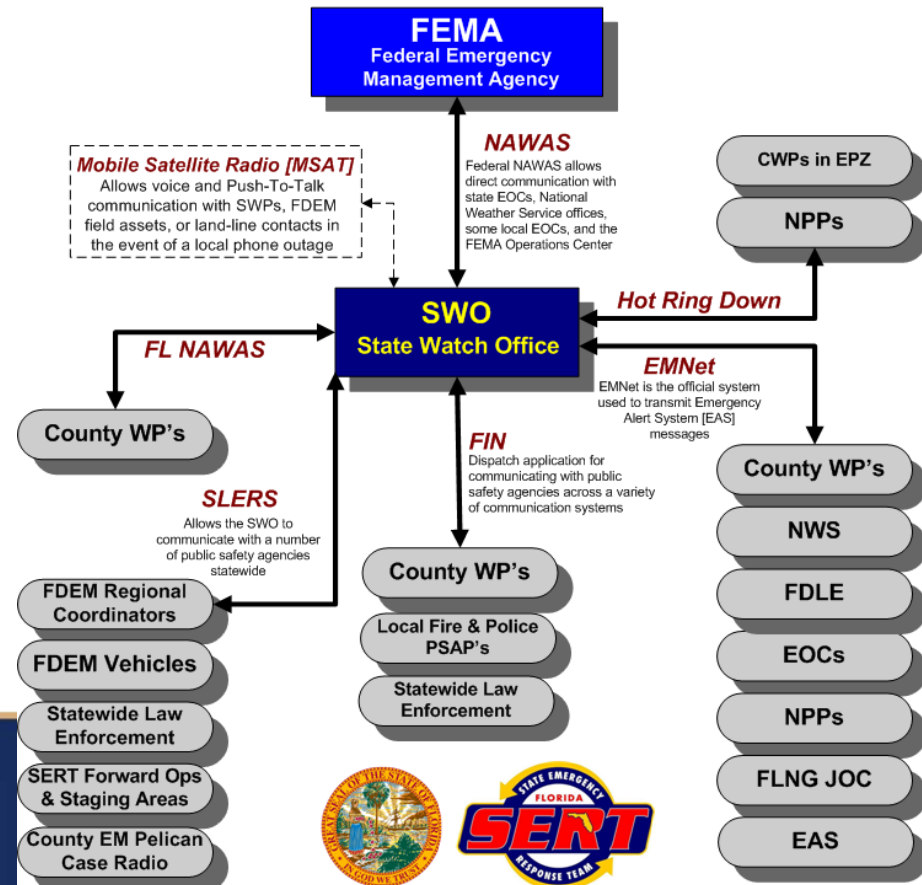
**GET A
PLAN!**
FloridaDisaster.org

SWO Incident Tracker

<https://apps.floridadisaster.org/SWO>

- FIRE / SEARCH & RESCUE
- LAW ENFORCEMENT
- INCIDENTS / SUSPICIOUS ACTIVITY
- NATURAL HAZARDS
- POPULATION PROTECTIVE ACTIONS
- TECHNICAL HAZARDS
- ENVIRONMENTAL CONCENRS
- TRANSPORTATION
- INCIDENTS
- UTILITIES / INFRASTRUCTURE
- MILITARY EVENTS

STATE WATCH OFFICE COMMUNICATIONS SYSTEMS



RECON Reports

- SERT RECON Report application

- Existing application for the SERT RECON Team
- Built primarily for hurricanes and floods
- Teams trained in use, reports triaged by RECON liaisons
- For this response, used to track reports of tar balls, recoverable product, shoreline and boom conditions

The screenshot shows a web browser window titled "Unified RECON Reporting Tool - Mozilla Firefox". The address bar shows the URL: <https://seoc.floridadisaster.org/recon/AddReconReport.aspx?ReconReportID=0>. The page header includes the Florida Disaster.org logo and navigation links: Home | Administration | Recon Reports | Search - Query | Tools. The user is identified as "User: Richard Butgereit" with "User Level: Admin". The main heading is "Add SERT Unified Recon Report".

The form contains the following fields:

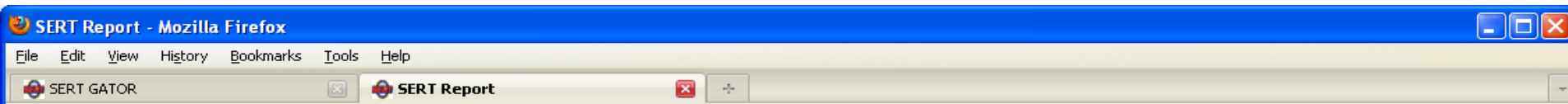
- Recon Team: Team #:
- Image:
- Recon Report#:
- Target Name:
- Time/Date:
- Lat: Long:
- HH:MM: DD.dddd: -DD.dddd:
- USNG: 17R NL 1234 5678
- Event:
- County:

The form is divided into three sections:

- 1 - Debris**
 - D - E Tree Debris:
 - F - Utility Pole Debris: Comments:
- 2 - Flooding**
 - A - C Flooding: Comments:
- 3 - Structure Damage**
 - A - H Structure Damage: Comments:



RECON Reports



Emergency



Scattered tar balls and 5" mats

6/23/2010 , 10:15

USNG: 16R DU 6585 5309

Lat/Long (DD MM.mm): 30 18.5460 , -87 21.3060

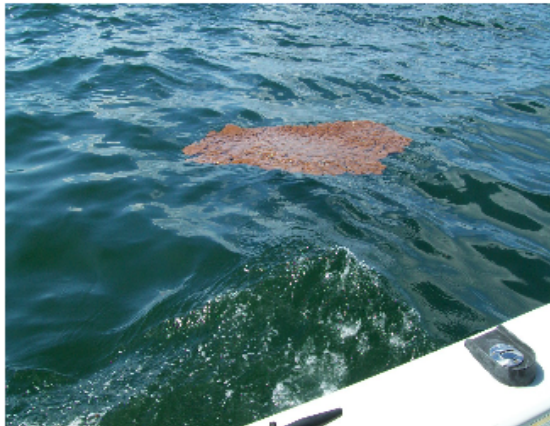
Lat/Long (DD.dd): 30.30910 , -87.35510

Lat/Long (DD MM SS.ss): 30° 18' 32.7600" , -87° 21' 18.3600"

Escambia



Emergency

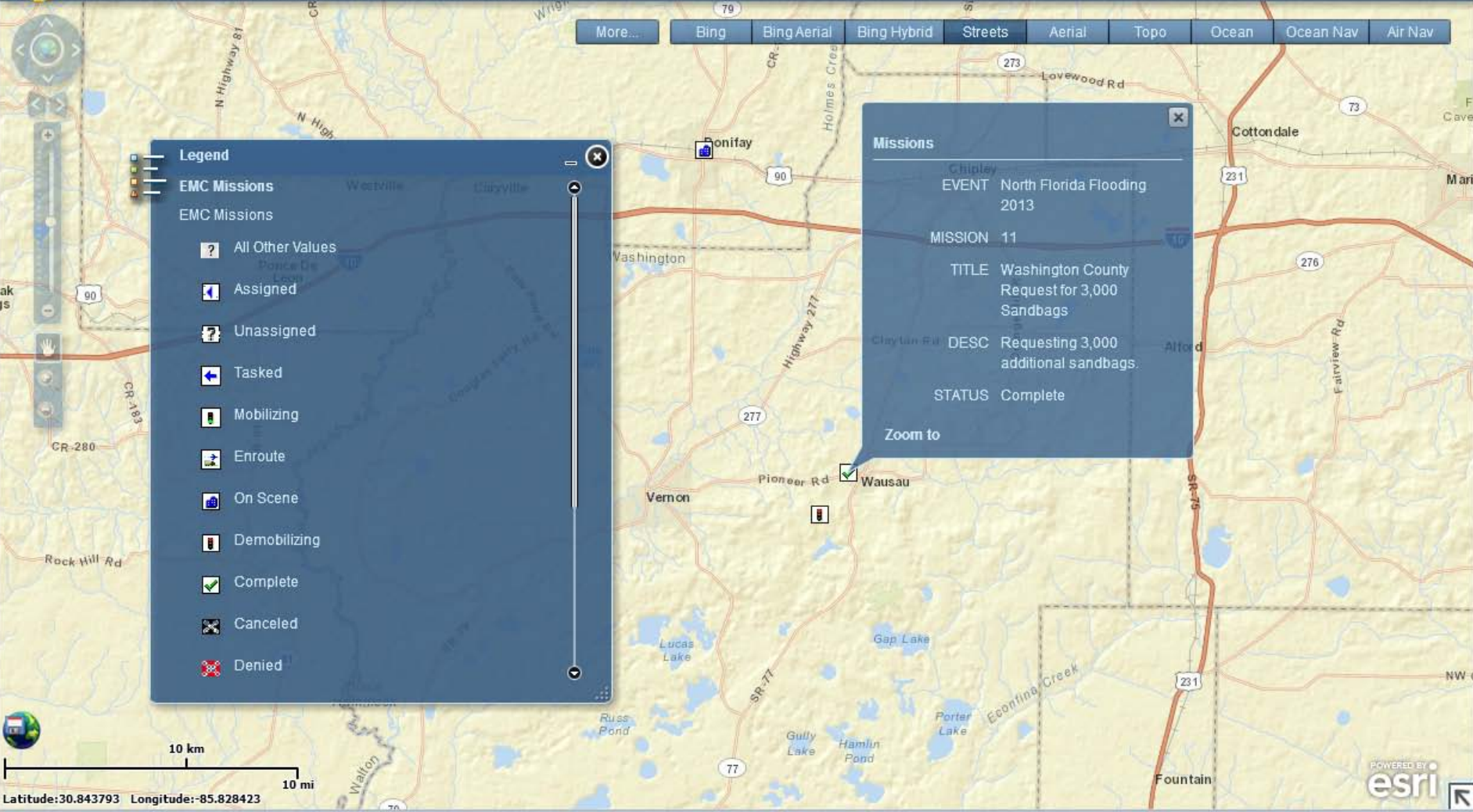


Morning report. There are lots of scattered golfball size tar balls and up to 5 foot tar mats red in color. They extend from Pensacola Pass to approximately 3 miles to the West off the beach. SKIMMERS NEEDED

Emergency



More... Bing Bing Aerial Bing Hybrid Streets Aerial Topo Ocean Ocean Nav Air Nav



GET A PLAN!
FloridaDisaster.org

Getting Missions on the Map

▼ Delivery Information

Delivery Pickup

Final Destination (type three or more characters to search)

Indian River County EOC

Address

4225 43rd Avenue

City

Vero Beach

State

FL

Zip Code

32967

Resource Destination (describe address if street address not known)

Special Instructions

Location Information in decimal degrees if available (example. 84.37 30.38)

Latitude (N)

+ ▾

27.67267258

Longitude (W)

- ▾

80.43031295

USNG (NAD 83)

17R NL 5618 6107



**GET A
PLAN!**
FloridaDisaster.org



The map displays Florida with various emergency response areas marked by icons. Major cities like Jacksonville, Orlando, Tampa, and Miami are labeled. A scale bar at the bottom left shows 100 miles and 200 kilometers. Coordinates are provided as Latitude: 29.509783 and Longitude: -87.899611. The map is powered by Esri.

More... Bing Bing Aerial Bing Hybrid Streets Aerial Topo Ocean Ocean Nav Air Nav

EMC Information Messages (last 20 updates)

- CLAY**
Type: Situation Report
Desc: CLAY Situation Report #5 – Last Updated: (5/5/2013 9:51:46 PM)
- CLAY**
Type: Situation Report
Desc: CLAY Situation Report #4 – Last Updated: (5/5/2013 12:30:49 AM)
- HAMILTON**
Type: Situation Report
Desc: HAMILTON Situation Report #6 & Road Closures/Opening – Last Updated: (3/11/2013 9:54:26 AM)
- HAMILTON**
Type: Situation Report
Desc: HAMILTON Situation Report #6 & Road Closures/Opening – Last Updated: (3/11/2013 9:54:26 AM)
- HAMILTON**
Type: Situation Report
Desc: HAMILTON Situation Report #5 & Road Closures – Last Updated: (3/8/2013 9:31:25 AM)
- HAMILTON**
Type: Situation Report
Desc: HAMILTON Situation Report #5 & Road Closures – Last Updated: (3/8/2013 9:31:25 AM)

CLAY

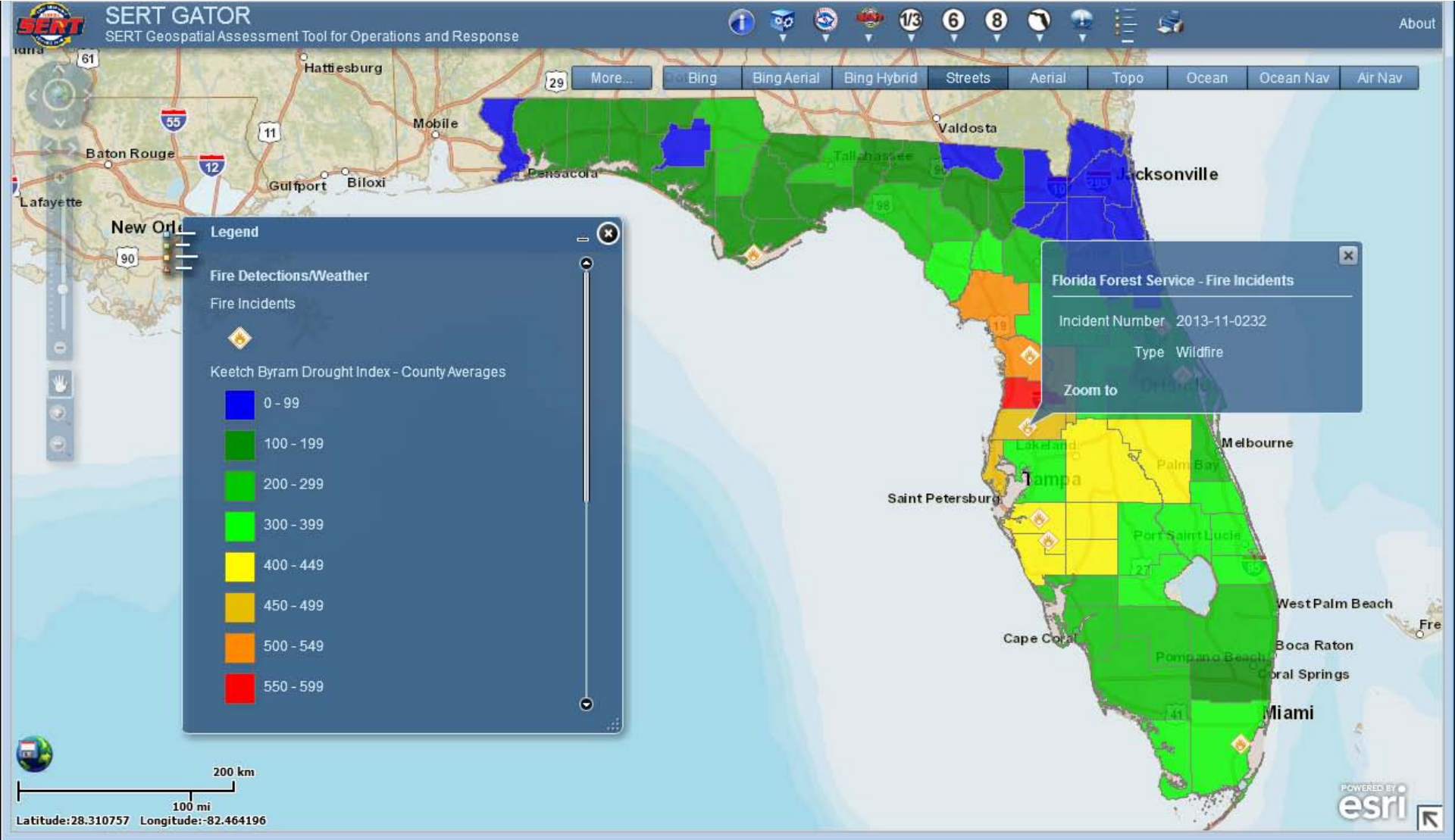
Type: Situation Report
 Desc: CLAY Situation Report #5 – Last Updated: (5/5/2013 9:51:46 PM)

<https://seoc.floridadisaster.org/emc/util/getattachment.aspx?attachmentid=5549a4fb-cb67-4568-91e1-85de98ad954f>

Zoom to



GET A PLAN!
FloridaDisaster.org



GET A PLAN!
FloridaDisaster.org



- More...
- Bing
- Bing Aerial
- Bing Hybrid
- Streets
- Aerial
- Topo
- Ocean
- Ocean Nav
- Air Nav

Legend

Baton Rouge

Nationwide Storm Reports

Storm Reports

- ALL OTHERS
- DENSE FOG
- FUNNEL CLOUD
- HAIL
- HEAVY RAIN
- SNOW
- HIGH SUST WINDS
- LIGHTNING
- WIND DAMAGE
- TORNADO

Storm Attributes (Current)

- ETVS
- TVS

NWS Watches, Warnings, and Advisories

Type	Small Craft
Significance	Advisory
Time Issued	201305070447
Time Expired	201305071400
Link	http://mesonet.agron.iastat

Zoom to

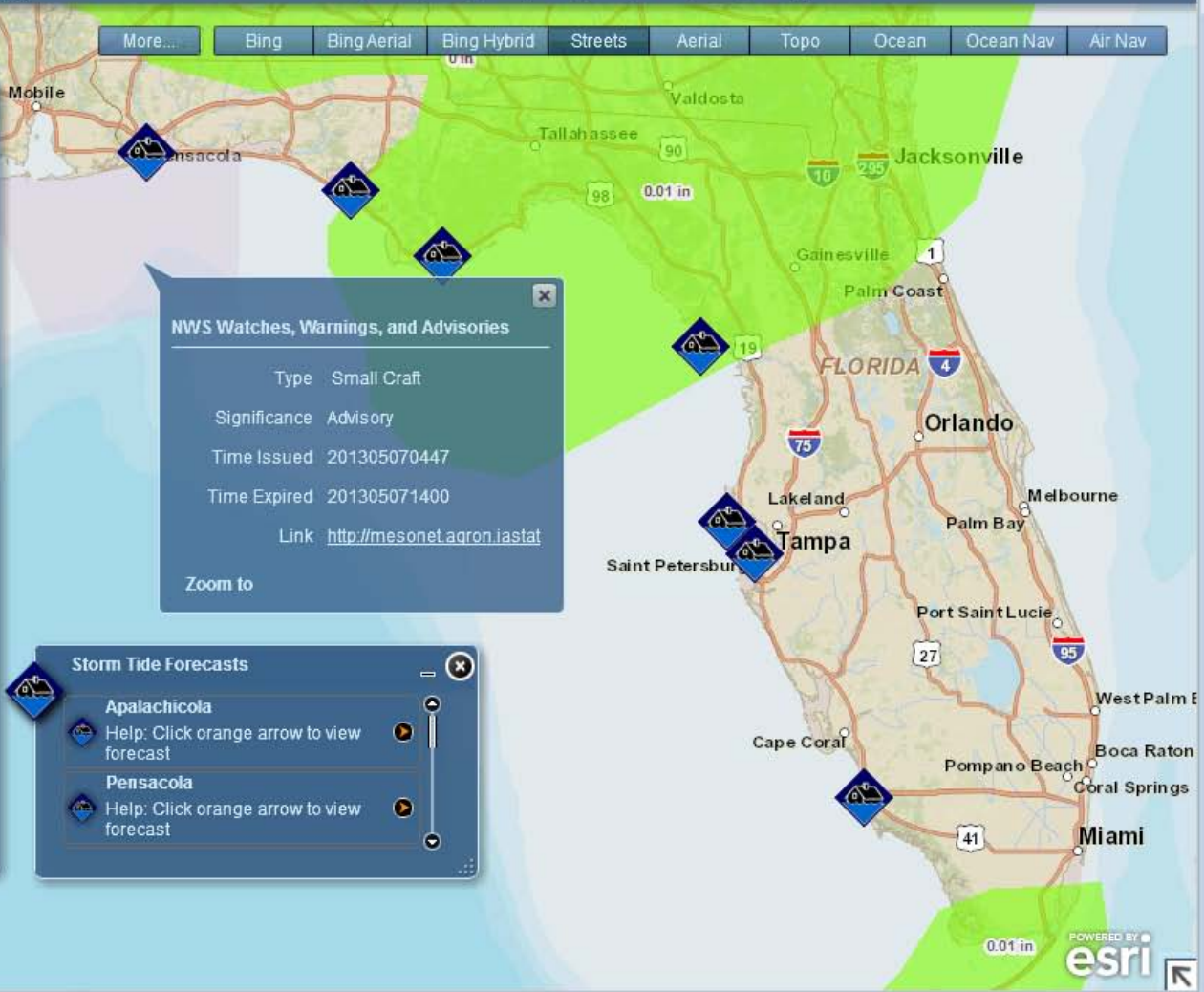
Storm Tide Forecasts

- Apalachicola**
Help: Click orange arrow to view forecast
- Pensacola**
Help: Click orange arrow to view forecast

Map navigation controls: Zoom in/out, Pan, Full Screen, etc.

Scale: 0 to 200 km / 0 to 100 mi

Coordinates: Latitude: 29.707071 Longitude: -87.249876



GET A PLAN!
FloridaDisaster.org



511 Traffic Cameras

- HIGHWAY: I-4
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: w
 COUNTY: Volusia
- HIGHWAY: I-95
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: s
 COUNTY: Brevard
- HIGHWAY: US-1
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: e
 COUNTY: Volusia
- HIGHWAY: I-75
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: n
 COUNTY: Broward
- HIGHWAY: SR-528
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: n
 COUNTY: Brevard

Video Feed:
 HIGHWAY: I-4
 Updated: 05/06/2013 01:00:18 AM
 DIRECTION: e
 COUNTY: Volusia
 5/7/2013 1:39 AM

Map Scale: 200 km / 100 mi
 Latitude: 29.025437 Longitude: -81.207063

POWERED BY esri



GET A PLAN!
FloridaDisaster.org

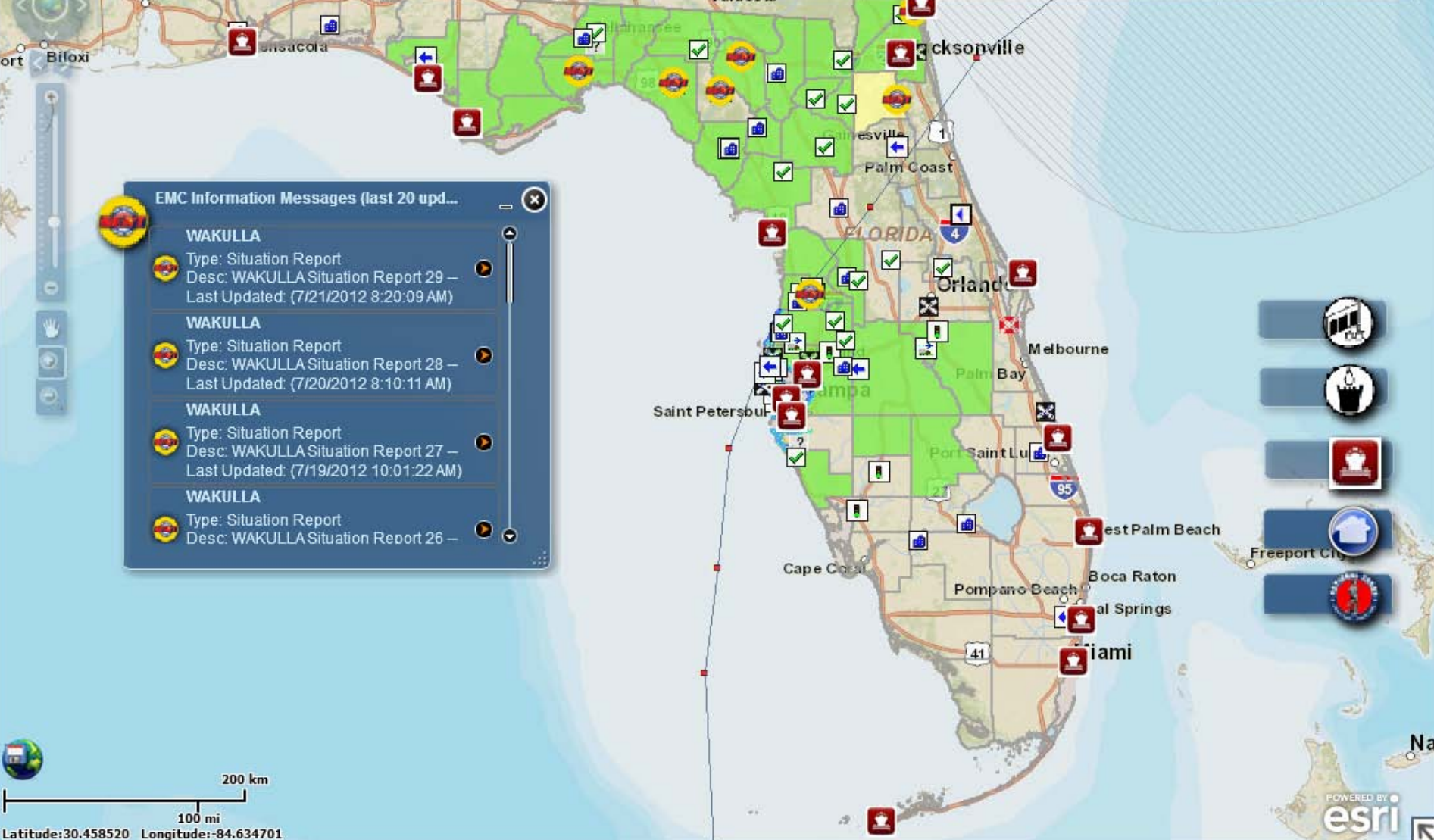
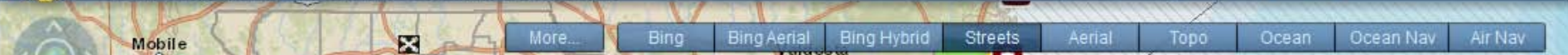


SERT GATOR Exercise

SERT Geospatial Assessment Tool for Operations and Response



About



EMC Information Messages (last 20 upd...)

- WAKULLA**
Type: Situation Report
Desc: WAKULLA Situation Report 29 –
Last Updated: (7/21/2012 8:20:09 AM)
- WAKULLA**
Type: Situation Report
Desc: WAKULLA Situation Report 28 –
Last Updated: (7/20/2012 8:10:11 AM)
- WAKULLA**
Type: Situation Report
Desc: WAKULLA Situation Report 27 –
Last Updated: (7/19/2012 10:01:22 AM)
- WAKULLA**
Type: Situation Report
Desc: WAKULLA Situation Report 26 –

200 km
100 mi
Latitude:30.458520 Longitude:-84.634701





SERT GATOR

SERT Geospatial Assessment Tool for Operations and Response



About



More... Bing Bing Aerial Bing Hybrid Streets Aerial Topo Ocean Ocean Nav Air Nav

FWC20120630
 TIME: 6/26/2012 11:00:03 AM



SERT Photos

- FWC20120630**
TIME: 6/26/2012 10:52:57 AM
- FWC20120630**
TIME: 6/26/2012 10:53:27 AM
- FWC20120630**
TIME: 6/26/2012 10:54:38 AM
- FWC20120630**
TIME: 6/26/2012 10:55:40 AM
- FWC20120630**
TIME: 6/26/2012 10:56:38 AM
- FWC20120630**
TIME: 6/26/2012 10:58:27 AM
- FWC20120630**





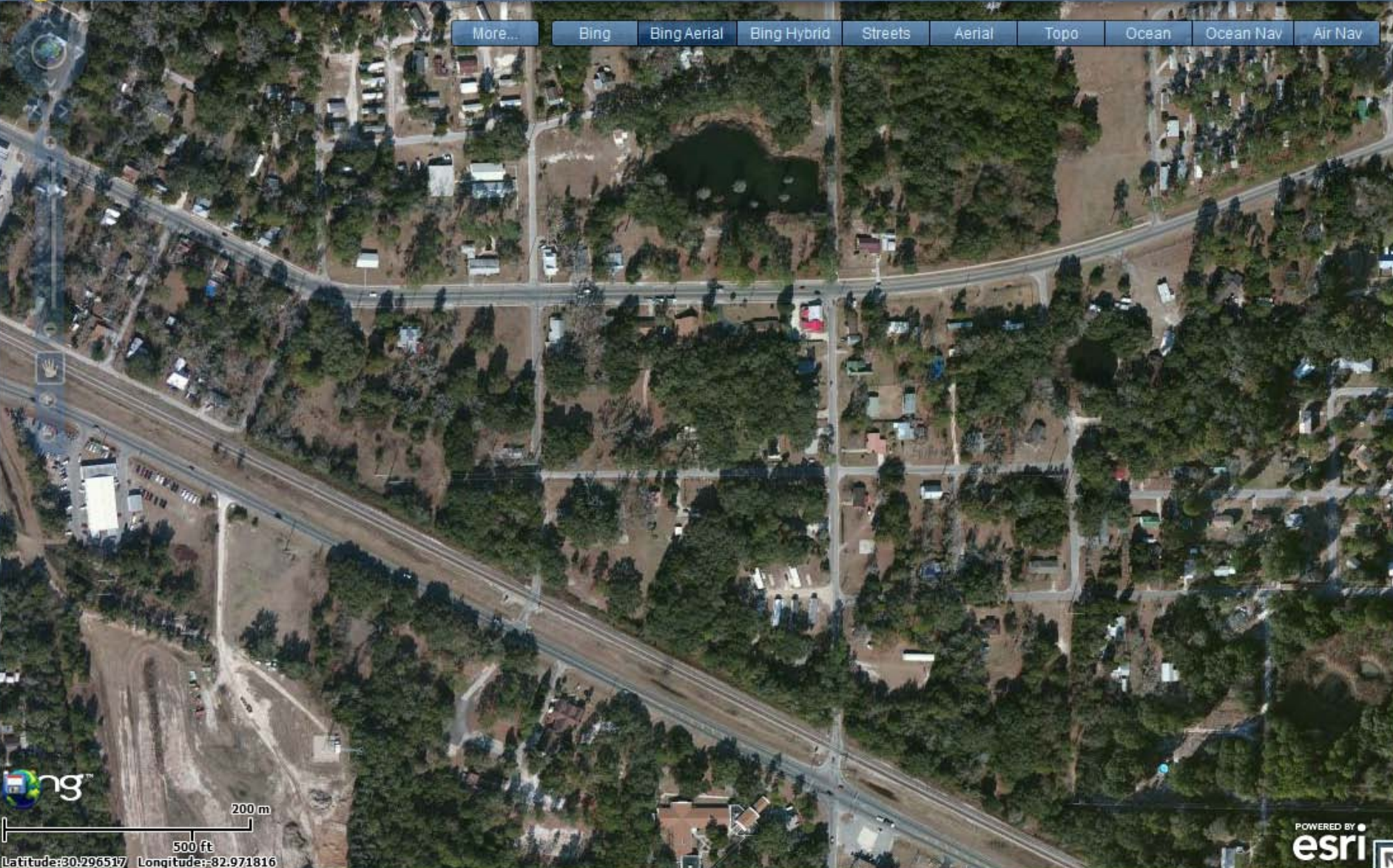
SERT GATOR

SERT Geospatial Assessment Tool for Operations and Response



About

- More...
- Bing
- Bing Aerial
- Bing Hybrid
- Streets
- Aerial
- Topo
- Ocean
- Ocean Nav
- Air Nav



200 m
500 ft
Latitude: 30.296517 Longitude: -82.971816





SERT GATOR

SERT Geospatial Assessment Tool for Operations and Response



About

- More...
- Bing
- Bing Aerial
- Bing Hybrid
- Streets
- Aerial
- Topo
- Ocean
- Ocean Nav
- Air Nav



200 m
500 ft
Latitude: 30.296489 Longitude: -82.973028



More... Bing Bing Aerial Bing Hybrid Streets Aerial Topo Air Nav

SWO - Incidents Last 24 Hours

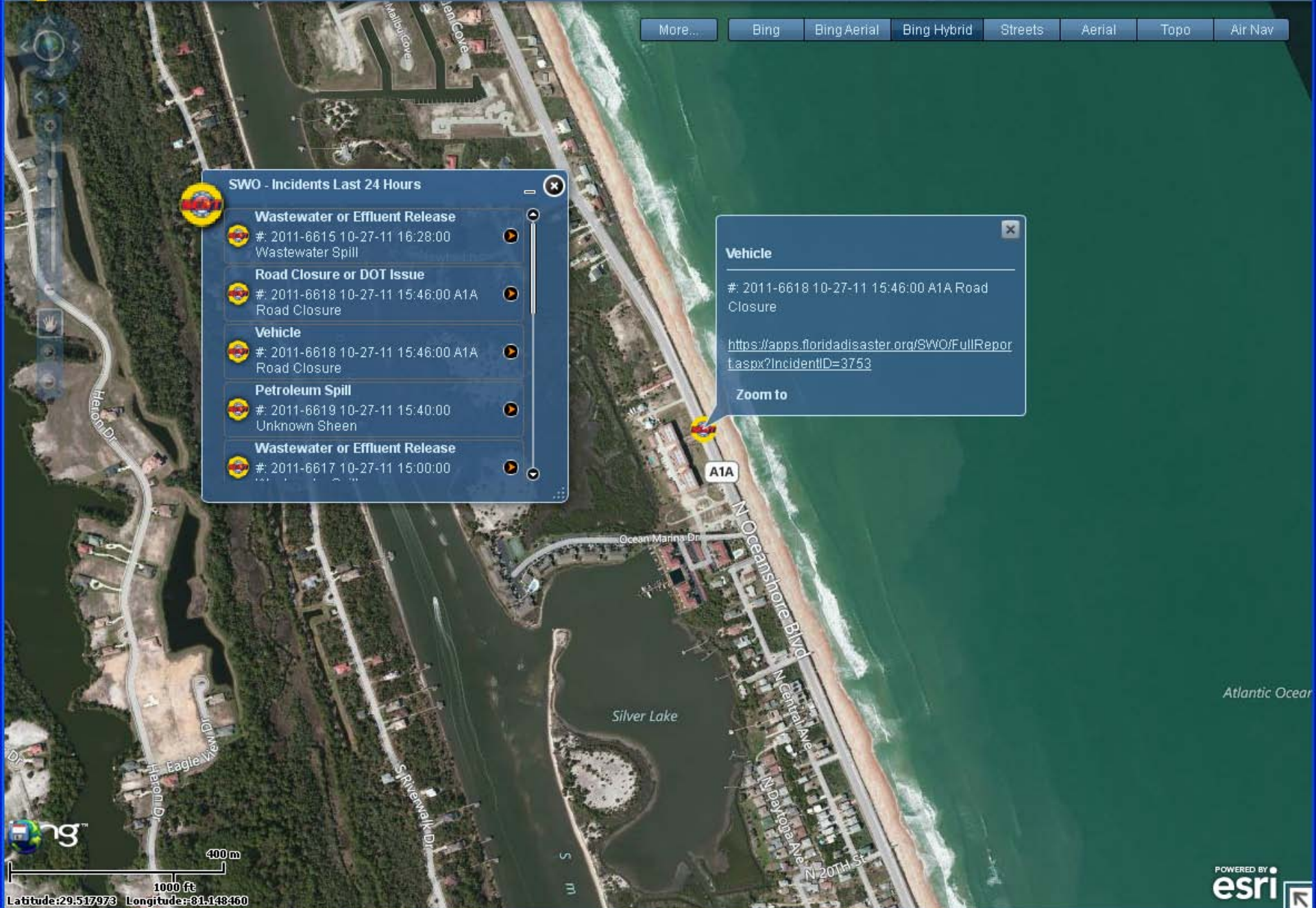
- Wastewater or Effluent Release**
#: 2011-6615 10-27-11 16:28:00
Wastewater Spill
- Road Closure or DOT Issue**
#: 2011-6618 10-27-11 15:46:00 A1A Road Closure
- Vehicle**
#: 2011-6618 10-27-11 15:46:00 A1A Road Closure
- Petroleum Spill**
#: 2011-6619 10-27-11 15:40:00
Unknown Sheen
- Wastewater or Effluent Release**
#: 2011-6617 10-27-11 15:00:00

Vehicle

#: 2011-6618 10-27-11 15:46:00 A1A Road Closure

<https://apps.floridadisaster.org/SWO/FullReport.aspx?IncidentID=3753>

Zoom to



400 m

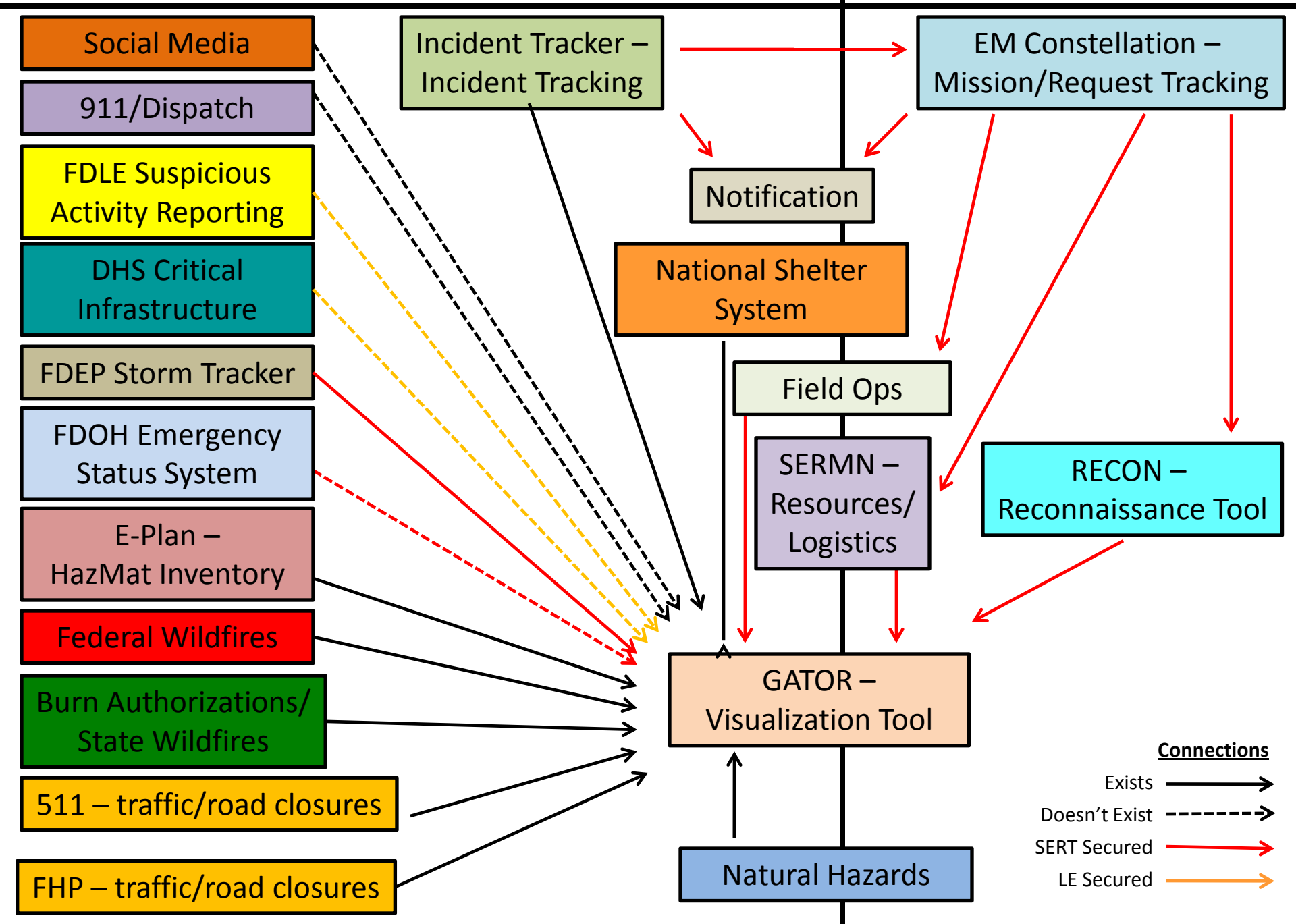
1000 ft

Latitude: 29.517973 Longitude: -81.148460

Atlantic Ocean

SERT Information Resources

Daily Activations



Activity 2.A

- Information Sources Activity
 - Work directly with others from your organization, or select one organization collectively among your table group.
 - A specific hazard need not be identified.
 - List only the data sources your organization has access to.
 - For each source, identify:
 - Data Source
 - Method of Obtaining
 - Documentation method
 - Method of sharing / audience

SA Documentation and Standards

Unit 2.3

Actionable Documentation

- Paints a picture
- Tells a story
- Guides the response
- Produces knowledge to:
 - Develop a course of action
 - Recommend solutions

SERT Documentation Unit


- Situation Reports
- Flash Reports
- Battle Rhythm
- Room Reservations
- After Action Reports
- Message Flow during a System Shutdown

SERT Situation Report

- Date, Time, and SitRep Number
- Operational Period
- Current Situation
- Meteorology Overview
- Consequences
- County Actions
- SERT Branch Actions
- Other SERT Actions

- Live example via

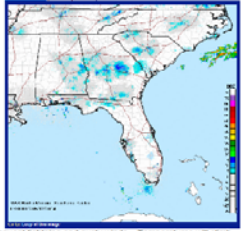
<https://seoc.floridadisaster.org/emc #344>



SITUATION REPORT No. 8
Spring Floods
 The Florida State Emergency Response Team
 May 12, 2014 Published at 1130 HRS
 State Emergency Operations Center Level: 2
 Operational Period: May 12, 2014 0800 HRS – May 13, 2014 1700 HRS
 Information Current as of 1100 HRS

CURRENT SITUATION:
 Florida's State Emergency Operations Center (SEOC) has activated in response to flooding in the Panhandle of Florida.

WEATHER SUMMARY:
 High Pressure in the Atlantic Ocean is slowly working its way eastward into the Florida Peninsula. This will hurt chances of afternoon showers and storms developing across the Peninsula this afternoon. However, increased southerly flow along the Panhandle coast may be one of the more likely places a shower or two could develop later this afternoon. Thus a 30% chance for rain is forecast in the Western Panhandle to account for any sea breeze showers and storms that may develop. Some showers and storms that do develop along the sea breeze front have the potential to become severe with frequent lightning and gusty winds. Temperatures will climb into the upper 80s and low 90s across most places this afternoon. Expect slightly cooler conditions along the coast due to the sea breeze, placing temperatures in the low to mid 80s. Most rivers across the Panhandle and Big Bend have reached their crest and continue to fall, except for the Perdido River in Escambia County as recent rains caused a quick spike in water level this past weekend. This river is expected to crest later today and continue to drop over the coming week. In addition to the Perdido River, the Suwannee and Santa Fe River Basins continue to have River Flood Warnings in effect.



COUNTY/TRIBAL ACTIONS:

REGION 1	EOC Level	Local State of Emergency	Evacuation Order	Open Shelters	School Open	Government Closing
Calhoun	3	NO	NO	NO	YES	NO
Escambia	2	YES	NO	YES	YES	NO
Holmes	3	NO	NO	NO	YES	NO
Jackson	3	YES	NO	NO	YES	NO
Okaloosa	3	YES	NO	NO	YES	NO
Santa Rosa	3	YES	NO	NO	YES	NO

SERT Battle Rhythm

State Emergency Operation Center is at a Level 2 Activation.

Operational hours are 0800 to 1700 hrs

EM Constellation Database "Operation Haiti Relief" is being used to track missions and information.

Operating Objectives:	Daily Meetings:
<ol style="list-style-type: none">1. Coordinate flights and services needed for Repatriation of United States survivors.2. Provide rumor control for repatriation and mass migration efforts.3. Provide resource support to Haiti.4. Continue tracking financial expenditures.	<p>FDEM Leadership Briefing – 0830 – Governor’s Conference Room SERT Briefing – 0900 – Main Floor Repatriation Meeting – 1000 – 130D MISSISSIPPI EMAC Meeting – 1400 - 130 D Incident Action Plan Meeting – 1500 – 130D County Conference Call – 1615 – 130D</p>

Executive Order #10-06 is posted to Info Message 78.

Latest Incident Action Plan is posted to Info Message 177.

Latest Situation Report is posted to Info Message 178.

Meeting times and locations will be published in Info Messages. Please e-mail: eoc-plans@em.myflorida.com with meeting related items.

Establishing Standards

- Written standards, processes, and guidelines support data collection, analysis, validation, and dissemination.
 - “Cues” to follow during an event.

Establishing Standards

- Achieving standards requires appropriate staffing in key positions:
 - Knowledgeable and experienced individuals
 - Proper training and resources
 - Adequate staffing levels
- Training and development of staff should focus on rapid recognition of patterns, trends, and consequences

Situational Awareness in Teams

- Individuals must maintain individual SA for their duties and in support of their team
- Team or shared SA is necessary when groups of individuals:
 - Share operational goals and objectives
 - Have unique or specific roles or functions to perform
 - Relies upon each other for successful task coordination and completion

Situational Awareness in Teams

- Team goals and objectives cannot be met if individual members lack adequate SA – or the tools to use it.
- Active process
 - Communication
 - Coordination
 - Cooperation
- Not all information must be exchanged – focus on what is common and shared.

Measuring SA Effectiveness

- After developing your SA and COP processes, it's important to establish a feedback mechanism and performance measures for the process.
- Example: State Watch Office Incident Tracker notification survey:
 - Asks respondents to rate the incident report's timeliness, accuracy, and relevance.
 - Provides fields for additional feedback and context if applicable.

Disseminating SA

Unit 2.4

State Watch Office Incident Lifecycle

- Live Demonstration

Incident Details

Date/Time Incident Occurred: 3/18/2011 14:03 Date/Time Reported to SWO: 3/18/2011 14:03

This incident is being handled: yes [View All Report Updates](#)

Choose from the Radio Buttons Below to Obtain Coordinates [View Location](#)

Facility Name or Scene Description: _____

Address City Address: 2120 jenette st City: tallahassee

Address Zip Address: _____ Zip: _____

Intersection City Street 1: fv Street 2: _____ City: _____

Affected Counties [Click Here for Counties](#)

Coordinate Entry

Dept/agencies noified, responding, scene: DOT, DOE, DOF, DEM, FD

Incident Worksheets

		<u>Worksheet Type</u>	<u>Description</u>
<input checked="" type="checkbox"/>		Nuclear Power Plants	Not Currently Available

Attachments: Select Attachment: Name:

Links ftp://ftp. https:// http:// Link Name:

Operations Officer opens an incident report and notifies appropriate ESF's and Response Partners.



FDEM Dissemination

- Incidents vs. Events
- Notifications vs. Reports & Briefings

Course Conclusion

Credit and Additional Resources

Portions of this course and its activities have been adopted from FEMA L948 – Situation Awareness and Common Operating Picture.

FEMA SA/COP Capstone Series

- Independent Study course in development
- E948 – Intermediate SA/COP &
- E143 Advanced SA/COP
 - September 22-25 2014
 - The FEMA Form 119-25-1 must be submitted to NETC Admissions by August 22, 2014 for the September offering.
- Capstone Paper

Evaluations

- Please give us feedback on this course using the blue evaluation forms in your conference folio.

Thank You!

Brian Misner, CEM
Senior State Watch Officer
Florida Division of Emergency Management
850-413-9914
Brian.Misner@em.myflorida.com

Richard Butgereit, GISP
GIS Administrator
Florida Division of Emergency Management
850-413-9907
Richard.Butgereit@em.myflorida.com