



Session 6: Airport Disasters Hurricane Lessons Learned

Moderator: Van Mills, Jr., Airport Manager, Baxley Municipal Airport

Speakers: Lauren E. Smith, Deputy Executive Director, Augusta Regional Airport (AGS)

Richard A. Rushing III, M.S., A.A.E., Director of Operations, Savannah Airport Commission (SAV)

Chris Davis, Airport Manager, Douglas Municipal Airport (DQH)



2025 GAA Annual Conference & Expo | Macon, Ga | October 15 – 17



Airport Disasters/Hurricane Lessons Learned

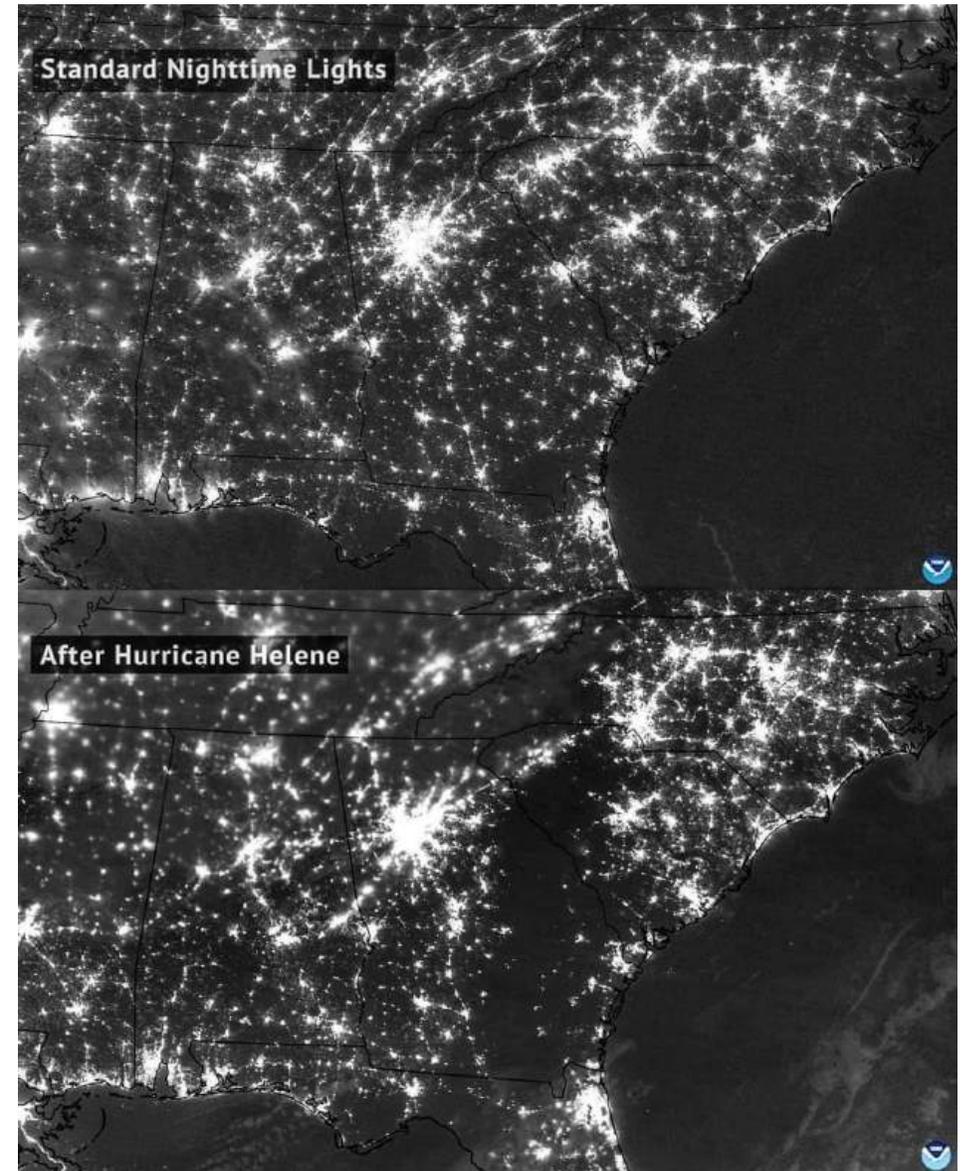
Lauren Smith, AGS Executive Deputy Director



HELENE STATISTICS



- Wind Gusts Exceeded 100 MPH
- Over \$500 Million in Regional Damages
- Average Power Outage: 1 week
- AGS Experienced Limited Property Damage



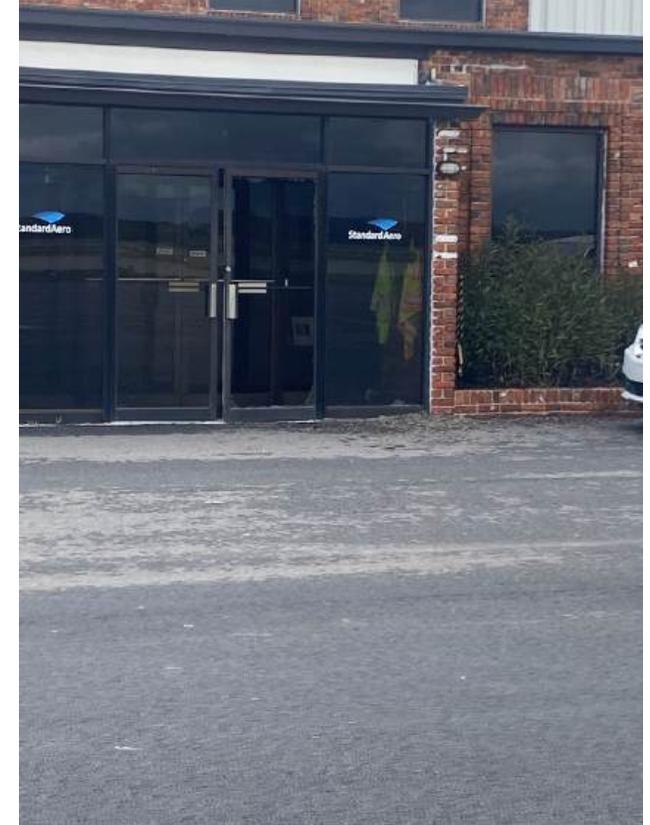
FACILITY & PROPERTY IMPACTS



- Terminal Flooding
- Fence & Power Line Down
- One Aircraft Flip
- Power Outage for 4 Days



FACILITY & PROPERTY IMPACTS



INFRASTRUCTURE & OPERATIONS

- Preventative Maintenance
 - Generators
- Manual Backups for Electronically Operated Systems
 - Sinks & Toilets
 - Cash
 - Airline Manual Transactions
- Communication Lines
 - Starlink
- Fuel Resources
 - SEADOG



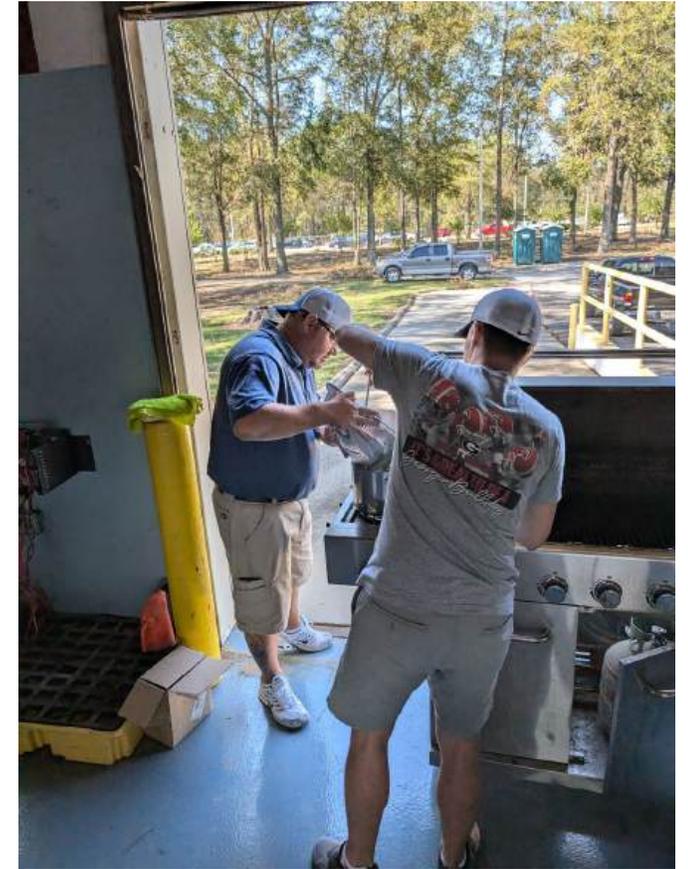
SHELTER & COMMUNITY SUPPORT

- Shelter-in-Place
 - Provide bare Amenities for Passengers
 - Emotional Support
- MOU's with local Emergency Agencies
 - Have Relationships with Emergencies Services
- Sole Fuel Source
 - Gave 11,543.26 gallons of Fuel to Emergency Agencies



STAFF & PREPAREDNESS

- Multiple Staff Briefings
- All Staff on Hand
- Provide Ride Out Staff with Essentials
- Balance Work/Home Life
- Provide Fuel and Food for Staff
- Mental Health Support



FEMA

- Begin Collecting Data at the Beginning
- Maintain Detailed Records
- Coordination with Crucial Agencies for Help
- Expect Delegation to Arrive





SEADOG

Airports Helping Airports



MYTHOLOGY 101

*and other common misperceptions



USS SEA DOG, SS-401

*SS-401 USN 1944-1956



NOT A BRANCH OF THE FAA

*Though they rely on us and are active participants

NOPE, NOT A BRANCH OF AAAE, EITHER

*Though SEC AAAE played a pivotal role in our formation





BUDGET? WHAT'S A BUDGET?

*We pass the savings along to you!



WE'RE ALL VOLUNTEERS

*And only a few of us are from Knoxville

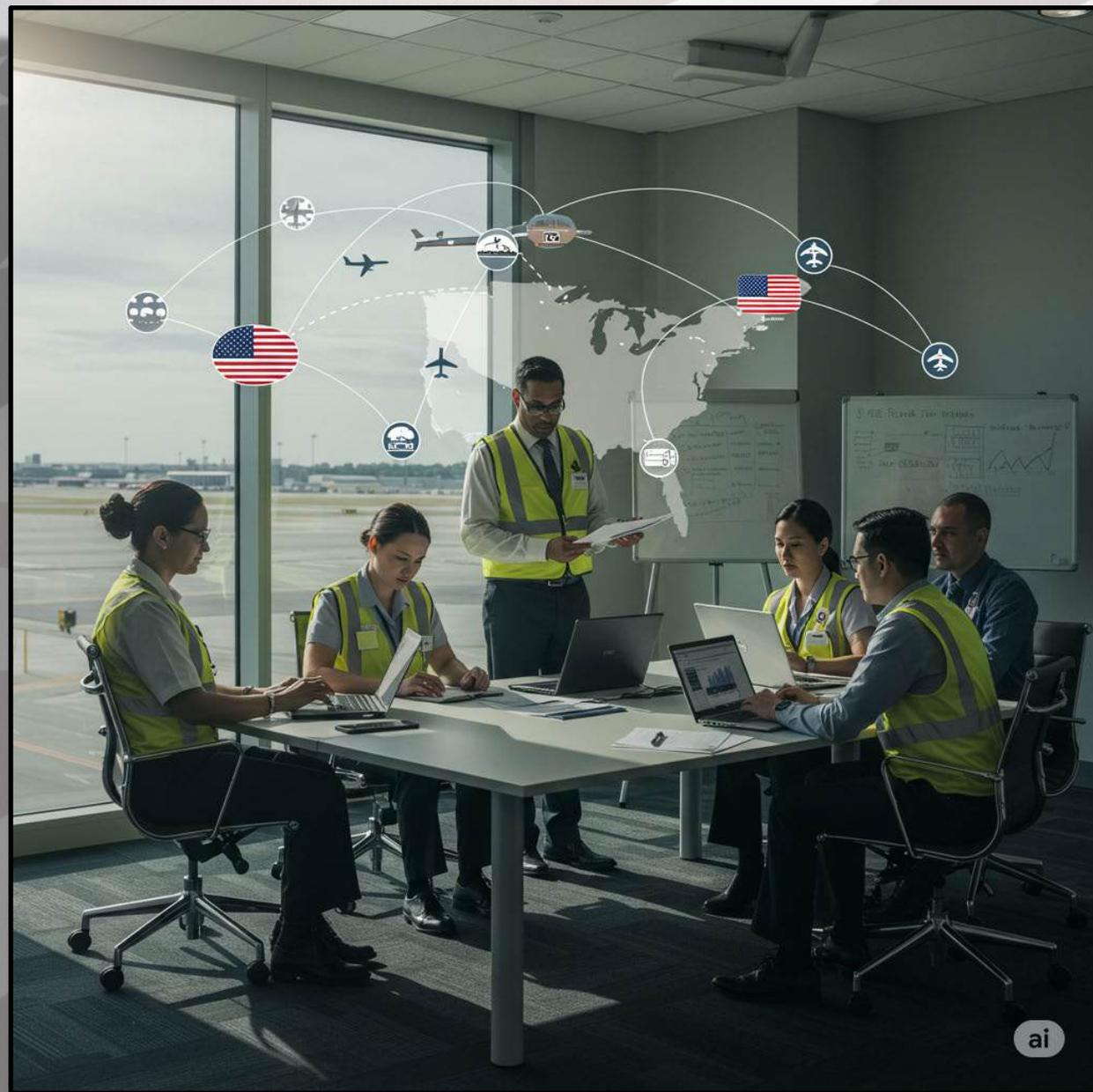


WHO BETTER TO HELP AN AIRPORT...

* ...Than Another Airport!!

AIRPORTS HELPING AIRPORTS

* The foundation of SEADOG



AIRPORTS HELPING AIRPORTS



- **What do you need to recover?**

The informal agreement between SEADOG Airports allows help to restore Commercial and General Aviation Flights:

- Equipment
- Manpower
- Food/Water
- Generator/Fuel
- Cots/Blankets/Medical Supplies

WHAT DOES SEADOG OFFER

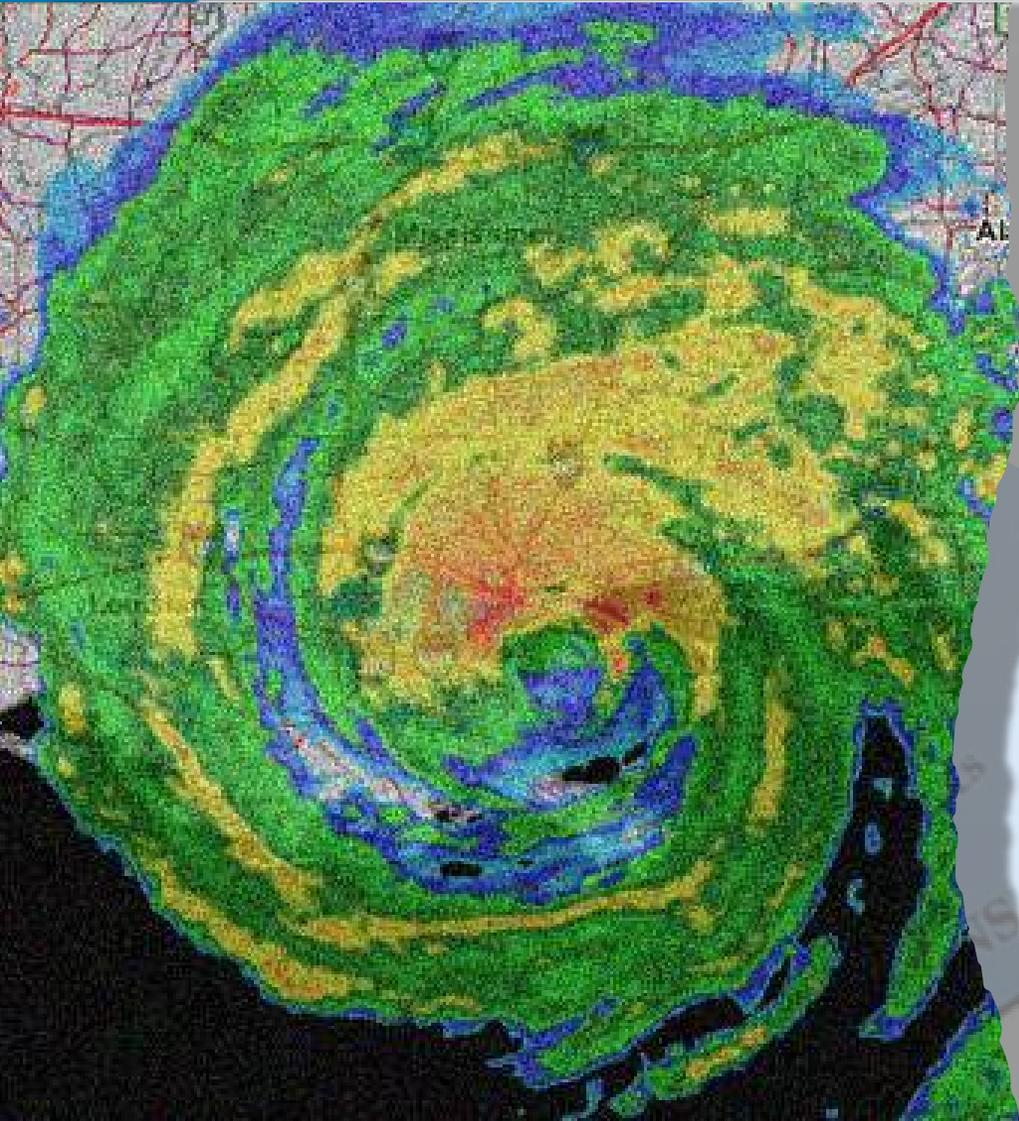


SEADOG Airports

- Airports can mobilize very quickly.
- SEADOG can bring a unique capability of delivery for specialization of personnel and resources specific to the unique airport environment.
 - Supplemental ARFF Personnel
 - Supplemental Ops Personnel
 - Supplemental Assessment Teams
 - Supplemental Airport LEO/Security Personnel

SEADOG ORIGINS

*Every superhero has a back story



2004

Hurricane Ivan (Cat 4 – 150mph)

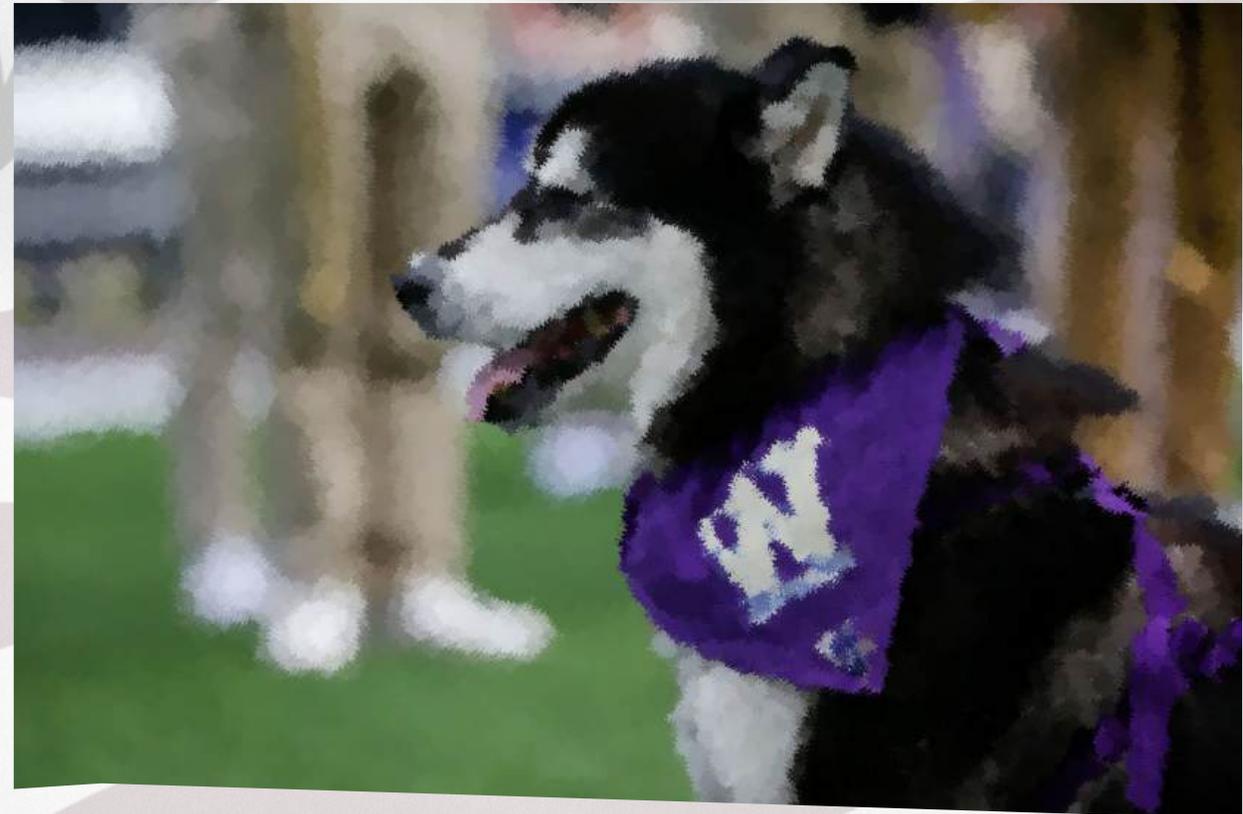
- Pensacola Airport (PNS) directly impacted by Ivan
- Response by SAV, BQK, DAB, with Admin support from MLB

2005

Hurricane Katrina (Cat 5 – 175mph)

- Impacts: LA / MS
- Hurricane Rita (Cat 5 – 180mph)
- Impacts: Eastern TX / LA

SEADOG & WESTDOG



THERE ARE ACTUALLY TWO 'DOGS'

WHAT'S THE DIFFERENCE



• What is the difference between the “Dawgs”?

SEADOG:

- A non formalized NGO with coordinating disciplines maintaining leadership roles.
- Has a large group of general members who contribute resources and disciplines necessary to the speed up the recovery of an airport.
- No written agreements (strictly **informal**).
- Predominately Southern Airports but Midwestern, Northeastern, and West Coast Airports participate.



WHAT'S THE DIFFERENCE ... CONT



West Coast
United States

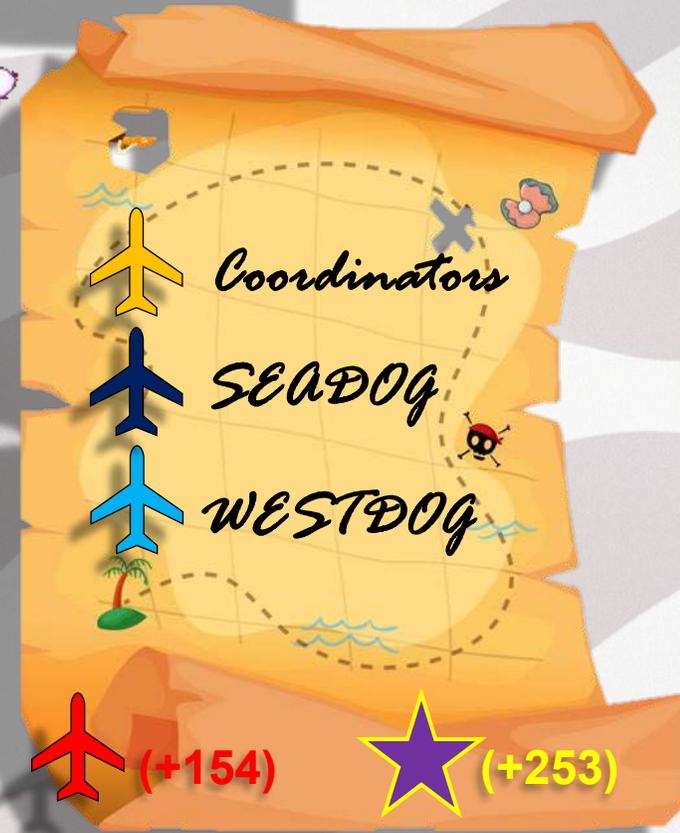


- What is the difference between the “Dawgs”?

WESTDOG:

- Has a formalized agreement between a small group of airport members across the West Coast United States.
- Has a lead airport and a secondary lead with leadership roles changing annually.
- Written agreement is required for membership.

SEADOG & WESTDOG



FAA / CARRG / CDEMA SUPPORT



CARRG!



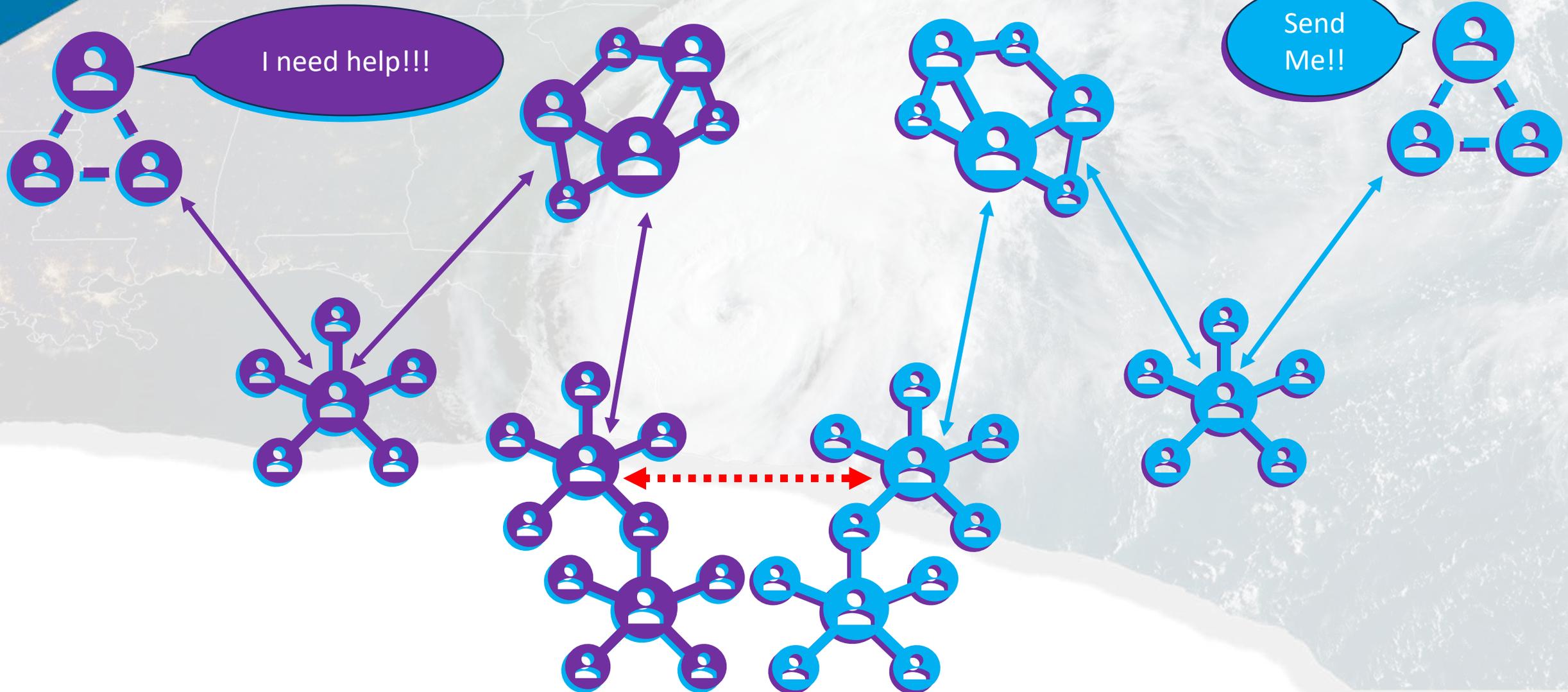
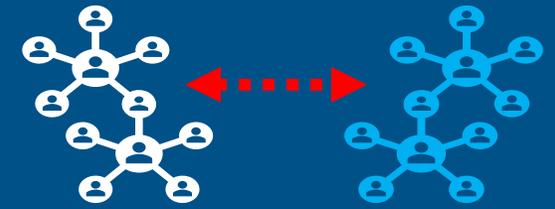
Caribbean Aviation Resilience & Recovery Group (CARRG)

- Caribbean, Central and South American Member States
- FAA
- ICAO
- IATA
- U.N. World Food Programme
- ACI
- CDEMA (Caribbean Disaster Emergency Management Agency)



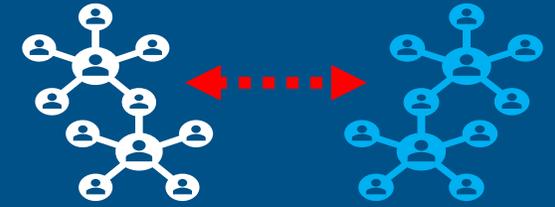
MUTUAL AID

* State Mutual Aid vs Nationwide Mutual Aid



MUTUAL AID

* INTRASTATE vs INTERSTATE

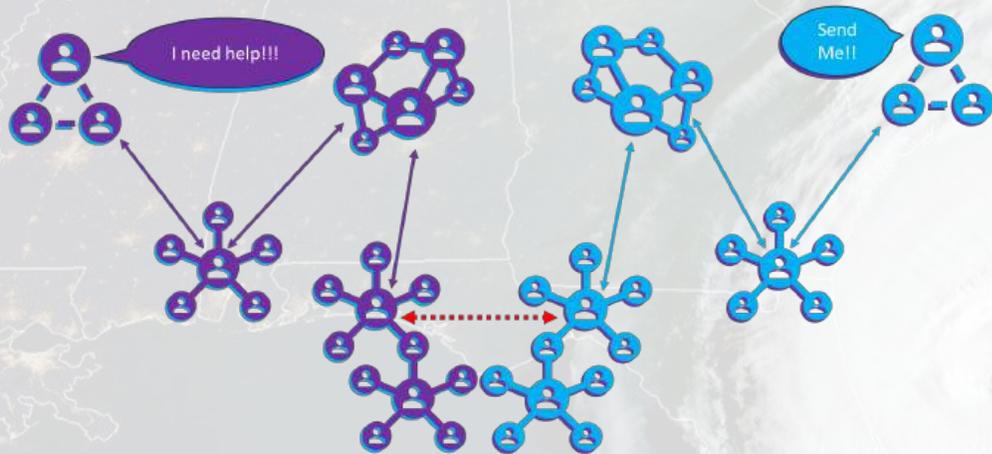
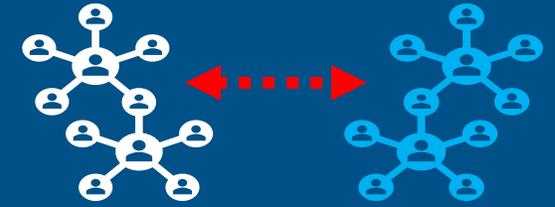


We Just Need A Mission #

* Document What You Send For FEMA Reimbursement

IN-STATE ASSISTANCE IS ALWAYS PREFERRED... **BUT IS NEVER A BARRIER!**

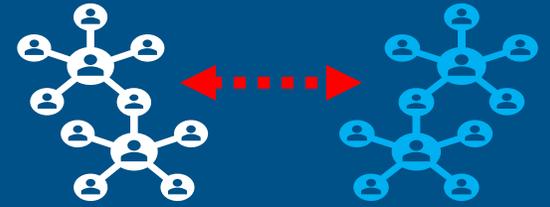
AIRPORT TO AIRPORT MUTUAL AID



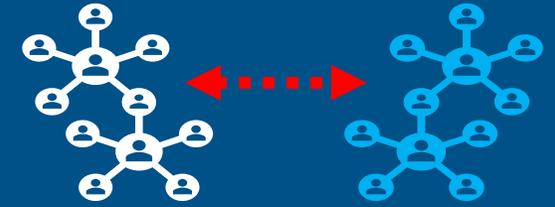
GET TO KNOW THE FOLKS AT YOUR STATE AND LOCAL EMERGENCY MANAGEMENT AGENCIES

*They can help speed recovery up!!!

HAVE LIMITED STAFF?



HELP IS A PHONE CALL AWAY

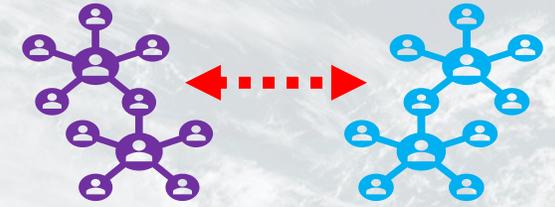


WE'RE HAPPY TO
HELP



TROPICAL CYCLONE HELENE
VS. VALDOSTA GEORGIA
GA AIRPORT

SEADOG RESPONSE TO HURRICANE IAN 2022



AIRPORTS CONTACTED / MONITORED

Florida

RSW
APF
SRQ
EYW
PGD
MLB
TPA
PIE
LAL
MCO

South Carolina

CHS
FLO
MYR
HHI
CAE

North Carolina

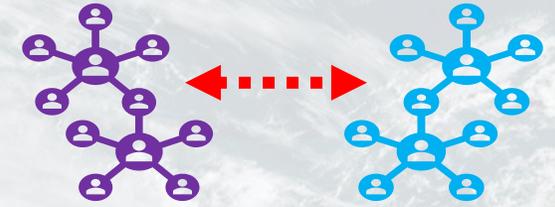
ILM
RDU

- Coordinated with 8 airports.

- Some received minor flooding, but no one requested assistance



SEADOG RESPONSE TO HURRICANE IAN 2022

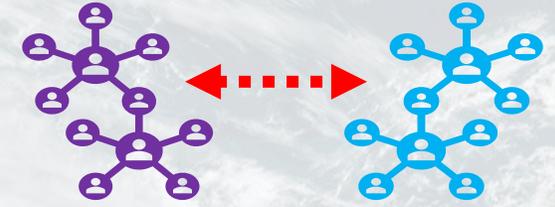


- Tucson International Airport
- The Ohio State University
 - Has a staff of over 350 students
- Lake Charles, LA
- Brownsville, TX
- APF sent a Lektro tug to PGD, as well as assisted getting their fueling equipment tested and operational

- FLL – sent team to PGD for 4 days
- TLH – sent teams with fencing to PGD
- MCO – sent over 200 taxiway lights to APF
- JAX – sent a team to PGD
- Martin County Airport (Stuart, FL) sent electrical help to APF
 - 1st known general aviation airport helping commercial
- RSW – sent electrical help to APF
- PWM – sent taxiway lights to APF



SEADOG RESPONSE TO PUNTA GORDA 2022



Wed 8am

RSW - talked to EOC. Airports closed. Ready to show 2pm ETA for fuel tank

APF - Barry Brown - No Issues. Expect 9 for surge. Elav 5' Sheltering @ APF

SRQ - CLSD Act for Jeff. Riding out PD OPS. Factors, Sergio returns.

EYW - CLSD currently doing DL. Waiting to start surge. APF

Wed 12M

RSW - EOC - Monitoring. Run closed. No issues

APF - no changes

SRQ - Spoke w/ Jeff - Starting to see effects - 1.5 min (wait) - Still have power - Air ready w/ containers (45-50 (wait))

EYW - Closed - No more standing water on tarmac or Run. Cleaning up. Fuel is good - no excessive smoke on city street

PGD - Spoke w/ James - A foot under water, 3 minutes time on site. - Jim Clarke is Dan Tom B

RCF/partners airfield water (now)

Thurs. 8am

EYW - Run Open / Term Op - Cleaning but open. No aircraft needs

RSW - Initial Airfield Damage/Delays. Fuel/Power. Bashed for gate. No containers. Fuel on water.

- opening up for humanitarian purposes only
- hoping to open airfield later today
- Terminal run minor leaks. 5-27 3h meeting

APF -

MLB - All issues working to report - new # 324 - (688) - 6554 (low)

SRQ - Ticket lane has roof damage. Trees down and debris - hoping to open at 3pm. No vehicles needed. 24hr

TPA - What's SEADOG?

PIE - Small section. Personnel. Mail damage

LX - Open. Normal damage



2pm 9/18

APF - RMTs almost clear; ARFF being done. R-7; VOR enabled; underground propane tanks floated; On generator. EOC est arrival 2hr; opened to EOC for fuel (can not yet); have not assessed airfield lighting

TPA - Tampa International Airport is good. We don't need other airports assistance.

FRIDAY

PGD - Goal is to get fencing up for weekend & working with State on fencing but County EOC busy

- meeting County Airport - 2 Staff at Punta Gorda
- FL supporting. Working on task to get mission at

APF - need control lighting (equipment / Electrician

- provide County support (not) according to 2500g
- mco to support needs

ILM - Wilmington - Tamie Keel - 910-946-1454

all great ATM

CHS -

- all good atm

ELO -

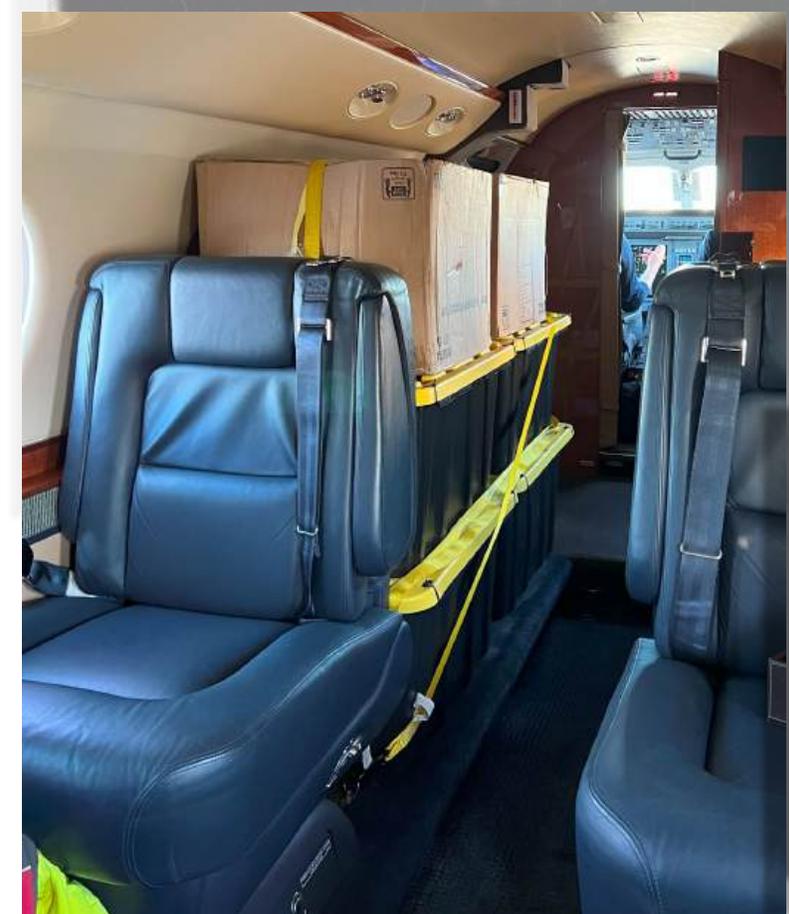
- all good atm

MYR - Myrtle Beach - OPS - 843-879-7392

all good atm

After find -

SAV RESPONSE TO PUNTA GORDA 2022



NAPLES (APF) RESPONSE TO PUNTA GORDA 2022

- APF sent a lektro tug to PGD, as well as assisted getting their fueling equipment tested and operational

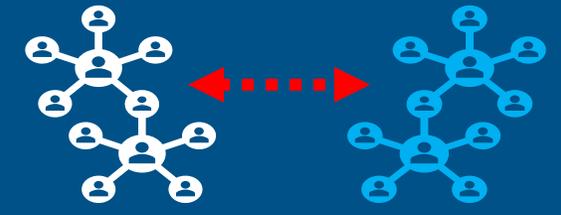




PUNTA GORDA 2022



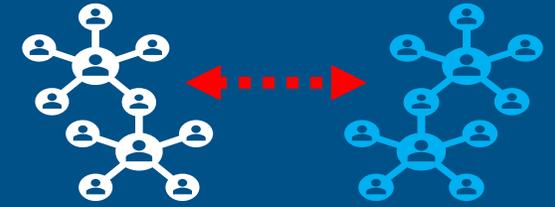
HELP IS A PHONE CALL AWAY



WE'RE HAPPY TO
HELP



AIRPORT MUTUAL AID SENT TO AVG



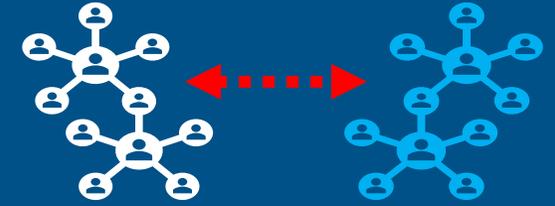
Approximately 5,820 manhours over ~2 weeks

Positions Requested / Needed:

- Electrician (Airfield and Building)
- Carpenter
- Airport / Airfield Operations
- General Maintenance
- Law Enforcement
- Guest Experience / Bag Support
- Public Information Officer
- ARFF
- Communications Assistant
- Emergency Management
- Planning Section Chief
- Administration Specialist

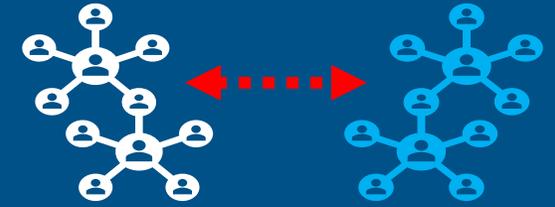


SEADOG RESPONSE TO AVG



- **Charleston, SC (CHS)**
- **Charlotte, NC (CLT)**
- **Cincinnati/Northern Kentucky (CVG)**
- **Ft. Lauderdale, FL (FLL)**
- **McGhee Tyson, TN (TYS)**
- **Piedmont Triad, NC (GSO)**
- **Raleigh-Durham, NC (RDU)**
- **Wilmington, NC (ILM)**
- **Charlottesville, VA (CHO)**
- **Fort Myers, FL (RSW)**
- **Jacksonville, FL (JAX)**
- **Louisville, KY (LOU)**
- **Memphis, TN (MEM)**
- **Portland, OR (PDX)**
- **Richmond, VA (RIC)**
- **Roanoke, VA (TYS)**
- **Savannah, GA (SAV)**
- **Tuscaloosa, AL (TCL)**
- **Washington, D.C. (MWAA)**

2024-2025 SEADOG EVENTS

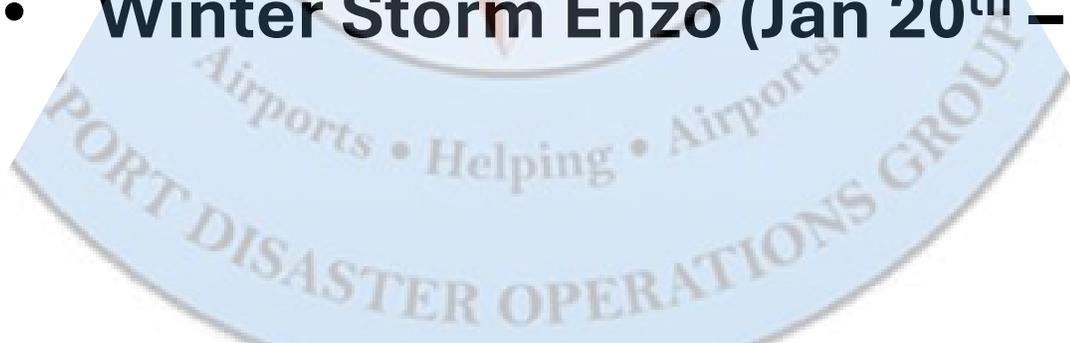


2024

- TC Beryl (June 28th – July 9th)
- TC Debby (August 3rd – 8th)
- TC Francine (September 9th – 12th)
- TC Helene (September 24th – 27th)
- TC Milton (October 5th – 10th)

2025

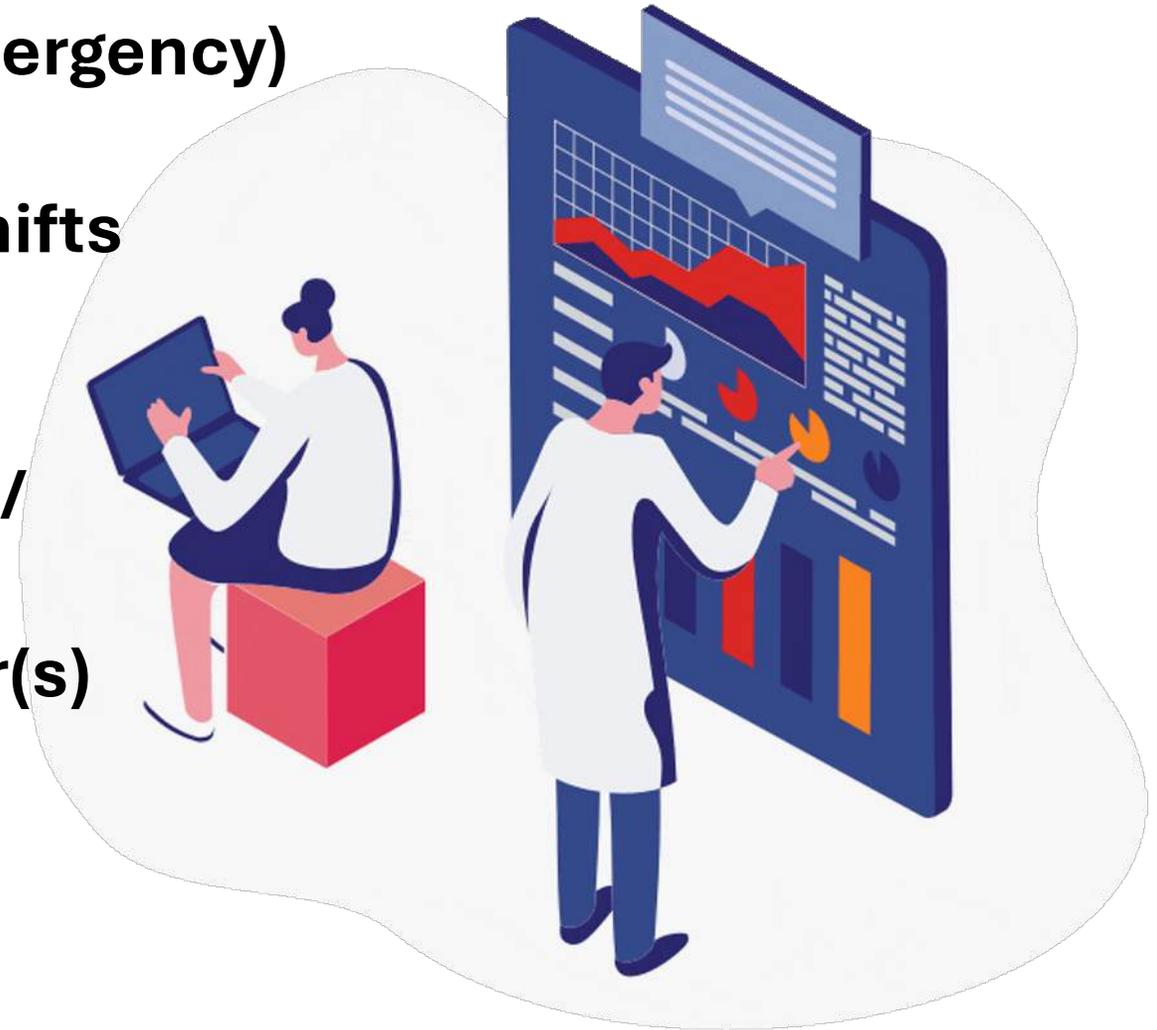
- Winter Storm Enzo (Jan 20th – 27th)



STATUS SEADOG TRACKS



- **Airport Status (Open/Closed/Emergency)**
- **Damage Assessment Status**
- **Manpower Needs / Manpower Shifts**
- **Equipment Needs**
- **Employee Morale Needs**
- **Deployment Duration / Location / Requirements**
- **State Resource Request Number(s)**
- **Responding Airports**



WAIT A MINUTE....



HOW CAN ALL THIS GET DONE?

* We are glad you asked!

OLD SCHOOL TRACKING...



Today 8am

RSW - talked to EOC Runways closed. Ready for storm. 2pm ETA for fuel tank

APF - Barry Brown - No Issues. Expect 9 ft surge. Elev. S' Shelters @ ARFC

SRQ - CLSD. Ask for Jeff. Ridge at PD OPS Facility. Surge station.

EYW - CLSD. Currently doing DA. Waiting on call from Surge Dept.

Wed 12N

RSW - EOC - Monitoring Run closed. no issues

APF - no changes

SRQ - Spoke w/ Jeff - Starting to see effects - PL backout - Still have power. An early afternoon 45-50 (Wind)

EYW - Closed - No more standing water on Twp or Hwy - Cleaning up PA - Fuel is good - no excessive rain.

PGD - Spoke w/ James - a foot under water, 3 houses down on lake. - Jim Cochrane is Down from 8

RCE / parkus outfield water (normal)

Thrs. 8am

EYW - Run open / Term Op - Cleaning but open. No barrel necks

RSW - Initial Airfield. Damage/Delibs. fuel/pavement. Bashed the gate. No Commercial Fuel on center.

- opening up for humanitarian papers only

- hoping to open airfield later today.

- Terminal has minor leaks.

5-27 38 meeting

APF -

MLB - All good nothing to report - new # 321 - 688 - 6754 (600)

SRQ - Ticket lane has roof damage. Trace down and delibs - hoping to open at 8pm. All vehicles parked @ 8pm

TPA - What's SEADOG?

PIE - Small section fence down. Rain Vents

LAL - Open. Normal damage

RSW Lisa () 8am/12pm/4pm

EOC - 239-590-4876

COMM - 239-590-1468

TPA

EOC/ACC - 813-890-8799

SRQ Jeff ()

EOC - 941-359-2770⁶⁵

PIE Mark (910-271-1052)

EOC/ACC -

MCO (LEAVE ALONE)

Tom Draper (407-247-8111)

EOC - 407-825-8800

PGD Mike (941-759-3182)

James Parish (941-582-3143)

EOC/ACC -

LAL Labels/Lider

OPS - 863-824-4411

FLL

Kevin Liu - 954-294-4248

Josee Spina - 954-294-4082

ACC - 954-590-2191

Ken -

JAY Chip (904-421-2301)

ACC - 904-241-2820

MLB

ACC/ACC - 321-682-8115/11

DAB

EOC/ACC -

2pm 9/19

APF - RWYs about clear, ARFF less than 20% - 000 ended, underground propane tanks flooded. On generator. Fuel est arrival 3hrs, opened @ 1100 for help. (see acc ytd); have not assessed airfield lighting.

TPA - Tampa International Airport is good. We don't need any other airports assistance.

FRIDAY

PGD - Goal is to get facing up for weekend

- working with state on facing but County EOC busy
- Florida County Airport - 2 Staff at Punta Gorda
- FL supporting. Waiting on fuel to get mission at

APF - need airfield lighting equipment / Electrician

- 1100 the County Airport was working to 2000
- MCO to support needs

ILM - Wilmington - Tame Keel - 910-946-1454

all good ATX

CHS -

- all good atm

FLO -

- left message

MYR - mobile Parish - OPS - 543-835-7392

- all good atm

Water Head -

HIGH PERFORMANCE TRACKING...



The screenshot displays the WebEOC dashboard interface. At the top, the header includes the WebEOC logo, navigation icons, and user information for 'SEADOG ADMIN' with the context '2024 - Tropical Cyclone Francine (...)'. Below the header, there are tabs for 'SIGNIFICANT EVENTS', 'MY POSITION LOG', 'USER REQUESTS', and 'WEATHER'. The main content area is titled 'Boards' and features a search bar and a list of 14 board items, each with a link icon. The items are arranged in a grid:

Board Name	Link Icon	Board Name	Link Icon	Board Name	Link Icon
Airport Management	🔗	Airport Management New Data	🔗	Event Calendar	🔗
Incidents	🔗	Incidents	🔗	My Position Log	🔗
Requests Tasks	🔗	Requests Tasks	🔗	Significant Events	🔗
Situation Report (Published)	🔗	Situation Report (Published)	🔗	Situation Report (Working)	🔗
Twitter Feeds	🔗	User Requests	🔗		

At the bottom of the dashboard, there is a footer with copyright information: '©2023 ESI Acquisition, Inc. WebEOC | Privacy Policy | Terms & Conditions'.

HIGH PERFORMANCE TRACKING...



WebEOC SEADOG ADMIN 2024 - Tropical Cyclone Francine (...)

AIRPORT MANAGEMENT SIGNIFICANT EVENTS MY POSITION LOG USER REQUESTS

Activity Log

2024 - TROPICAL CYCLONE FRANCINE (HUR)

CREATE NEW + FILTER/SEARCH (1)

Sort Fields: Default

1 UNKNOWN 20 ADVISORY 0 MINOR 0 MAJOR 1 CRITICAL

Type: Info Update
Priority: Advisory Not Submitted

Houma-Terrebonne Airport - 09-12-2024 1:40PM Update

Yes sir. Everything went well. We were able to get all operations back up and running with no problem. We are running on generator power, but we are fully operational. The airport had only minimal damage with only one tenant having substantial damage to their hangar. Although it was a strong storm, we were able to make it through it with minimal impact. We appreciate your assistance.

+ Show More

Record ID: 22 Created By Dustin Hetzelas SEADOG ADMIN on 09/12/2024 13:40:00

Type: Info Update
Priority: Advisory Not Submitted

GPT Update 950AM

Airport tenants,

According to the National Weather Service, Francine has been downgraded to a tropical depression. Operations has completed a thorough inspection of the airfield and perimeter line and has found no major issues to note.

For our flying partners at the airlines, the military, and Million Air, please remember to check NOTAMs throughout the day. Currently, the only thing to note for pilots as of this email is the windcones being removed from their posts. Maintenance is working through their task lists, and the NOTAMs...

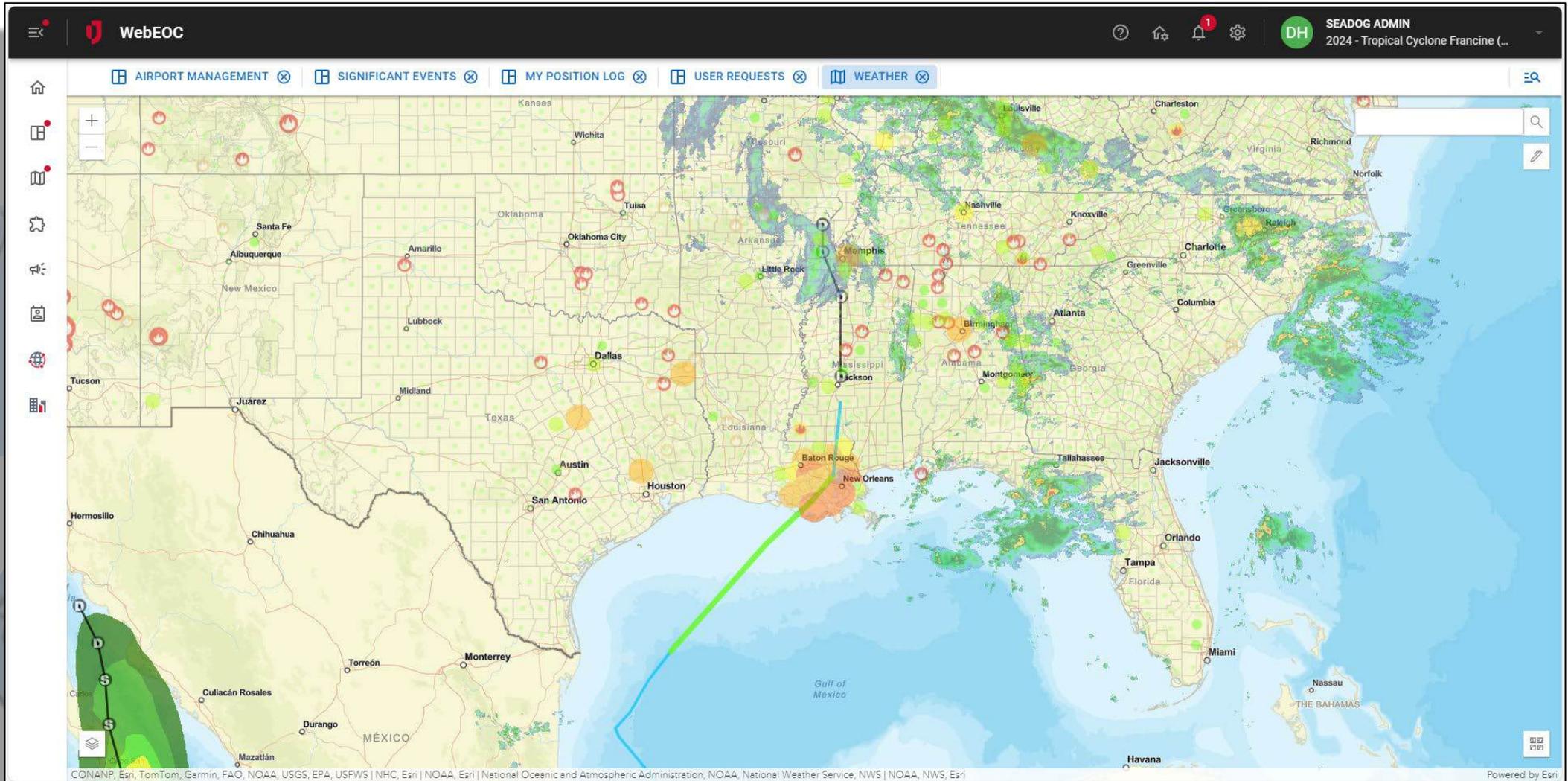
+ Show More

Record ID: 21 Created By Dustin Hetzelas SEADOG ADMIN on 09/12/2024 09:50:00

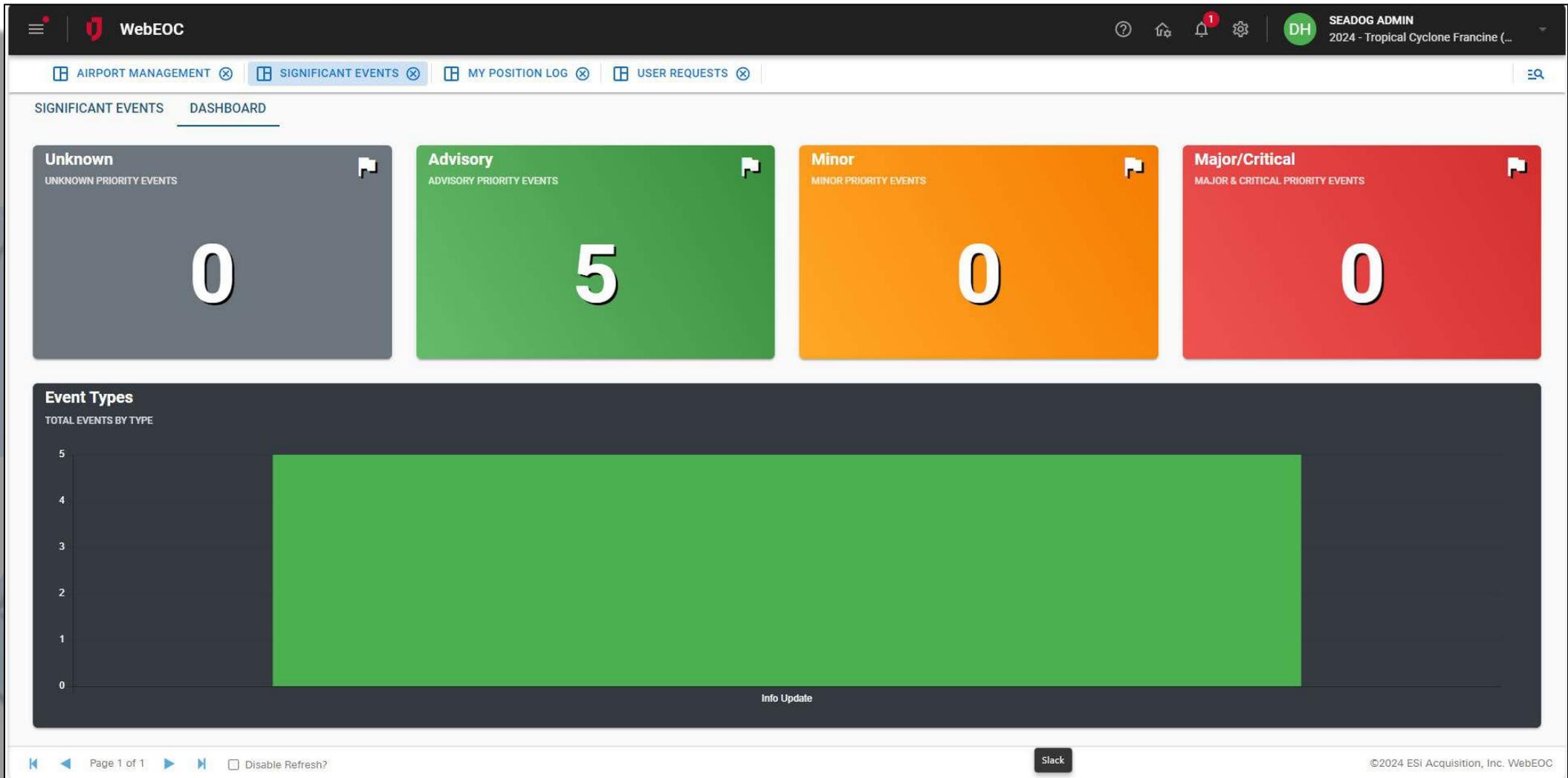
Type: Info Update
Priority: Advisory Posted

Page 1 of 1 Disable Refresh? ©2024 ESI Acquisition, Inc. WebEOC

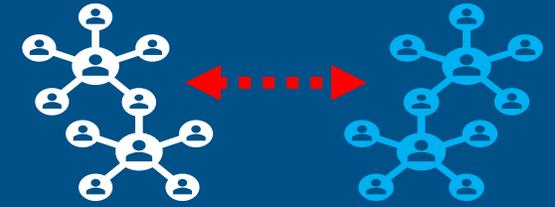
HIGH PERFORMANCE TRACKING...



HIGH PERFORMANCE TRACKING...



WINTER STORM: ENZO



WebEOC | AIRPORT MANAGEMENT | 2025-01-21 WINTER STORM ENZO

Airports | CLEAR MONITORED | CREATE NEW + | FILTER/SEARCH

CONANP, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS | National Oceanic and Atmospheric Administration, NOAA, National Weather Service, NWS | NHC, Esri | Powered by Esri

MONITORED ONLY | SEADOG MEMBERS ONLY

Monitored	ICAO	Airport Name	Status	City	State	SEADOG Member	Use	Last Updated
✓	KDHN	Dothan Rgnl	CLOSED	DOTHAN	AL		CIVIL	01/21/2025 17:10:36
✓	KCSG	Columbus	CLOSED	COLUMBUS	GA		CIVIL	01/21/2025 16:43:22
✓	KBQK	Brunswick Golden Isles	CLOSED	BRUNSWICK	GA	Yes	CIVIL	01/21/2025 16:44:28
✓	KABY	Southwest Georgia Rgnl	CLOSED	ALBANY	GA	Yes	CIVIL	01/21/2025 16:41:01
✓	KLFT	Lafayette Rgnl/Paul Fournet Fld	CLOSED	LAFAYETTE	LA	Yes	CIVIL	01/21/2025 18:11:33
✓	KHDC	Hammond Northshore Rgnl	CLOSED	HAMMOND	LA	Yes	CIVIL	01/21/2025 18:13:03

Page 1 of 2 | Disable Refresh? | ©2024 ESI Acquisition, Inc. WebEOC

HOW CAN I GET ON THIS COOL SYSTEM

Airports Helping Airports
Enhance Airport Coordination
with SEADOG and WebEOC

SEADOG & WebEOC FLIGHT 47710 Gate 11

LOST **LST**  FOUND **FND**

DATE	BOARDS	DOORS CL	DEPARTS
Aug 19	7:40pm	8:10pm	8:25pm

CUSTOMER NAME: BOB HOPE GROUP: JUVARE SEAT: 4E

ACCESS YOUR SEADOG WEBEOC ACCOUNT

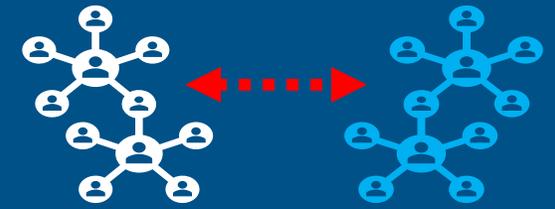


hosted by **JUVARE**

ACCESS YOUR SEADOG WEBEOC ACCOUNT



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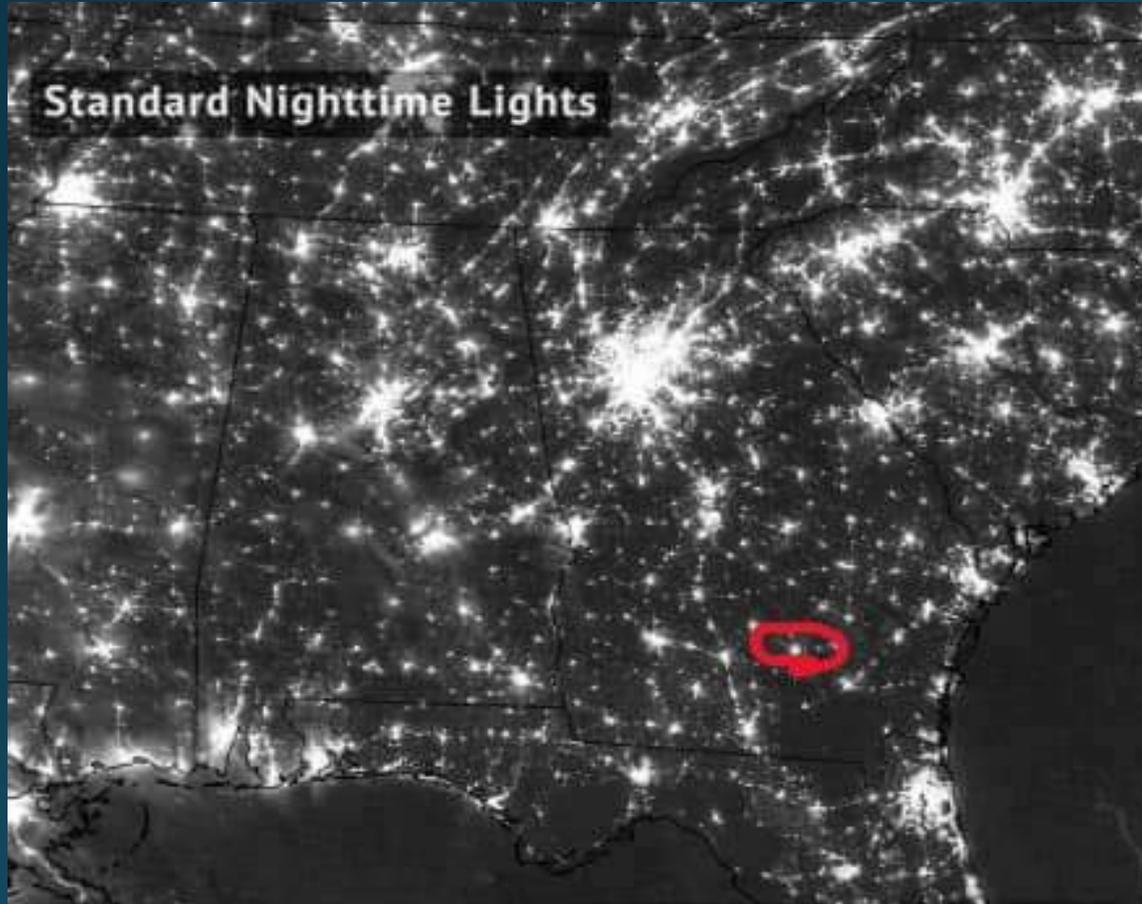




September 26-27, 2024

Helene Vs. Douglas

Power Outage Satellite Comparison



Metal Roof 100% Removed

















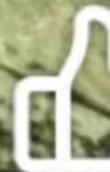












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