

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

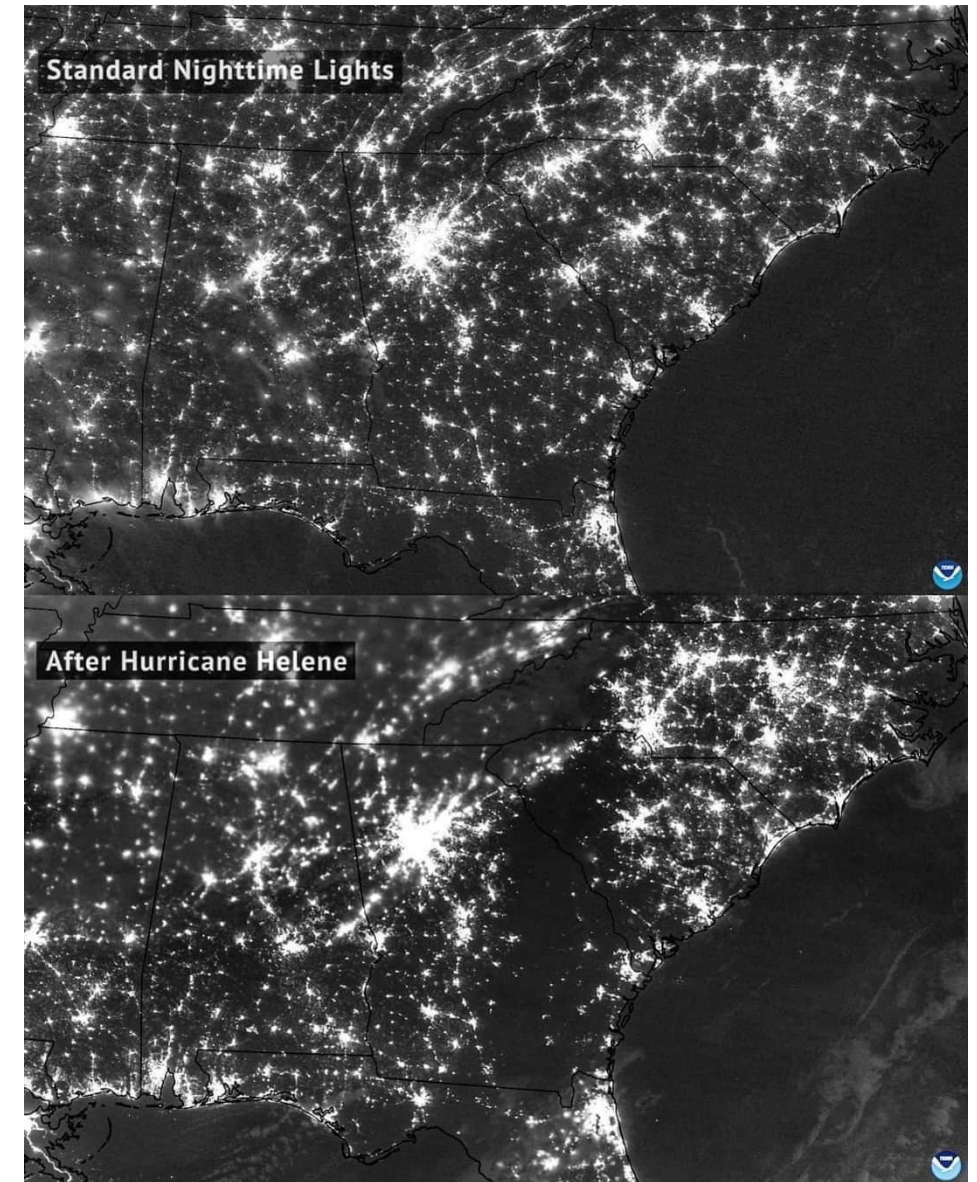
Lauren Smith, AGS Executive Deputy Director



HELENE STATISTICS



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



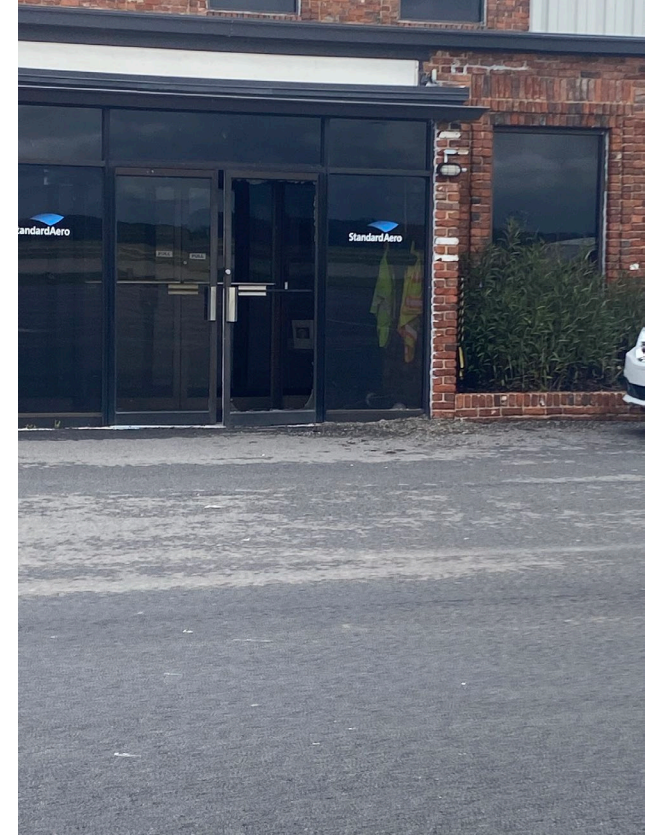
FACILITY & PROPERTY IMPACTS



- 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)

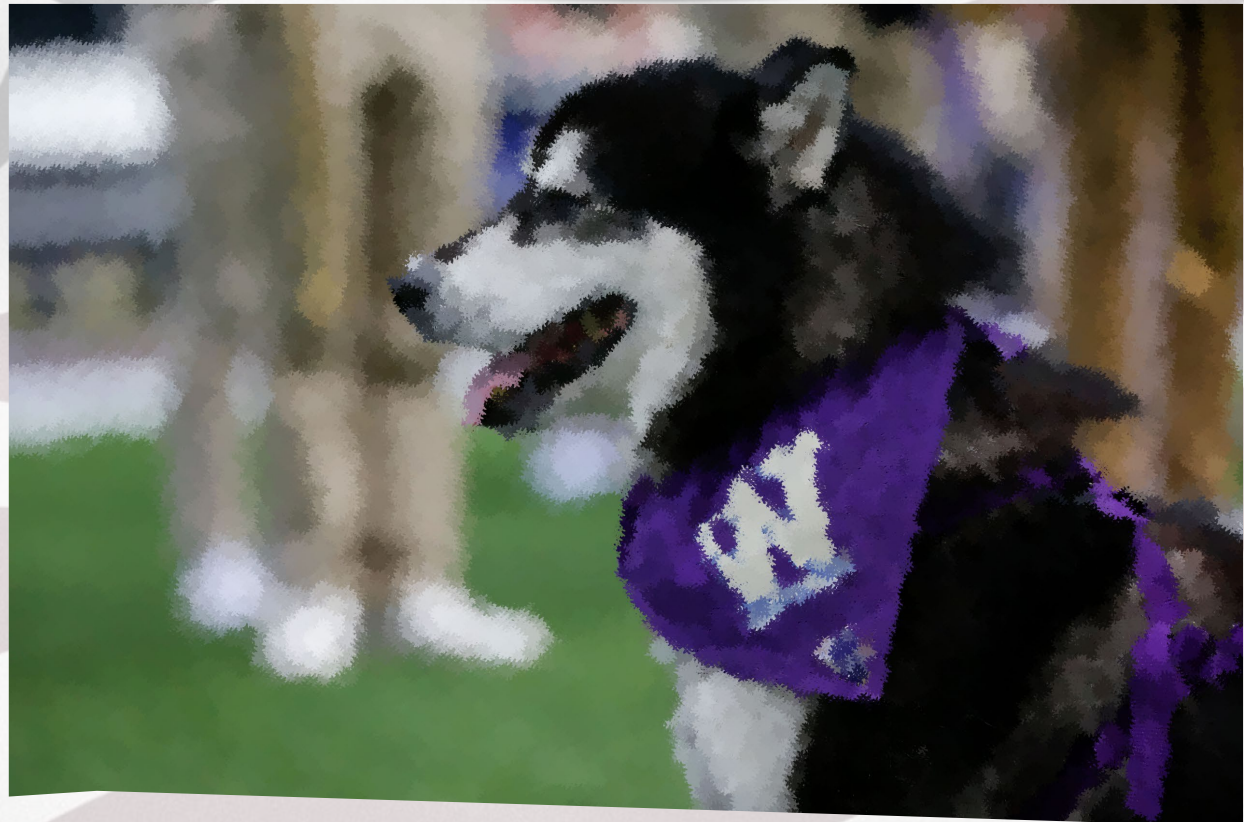
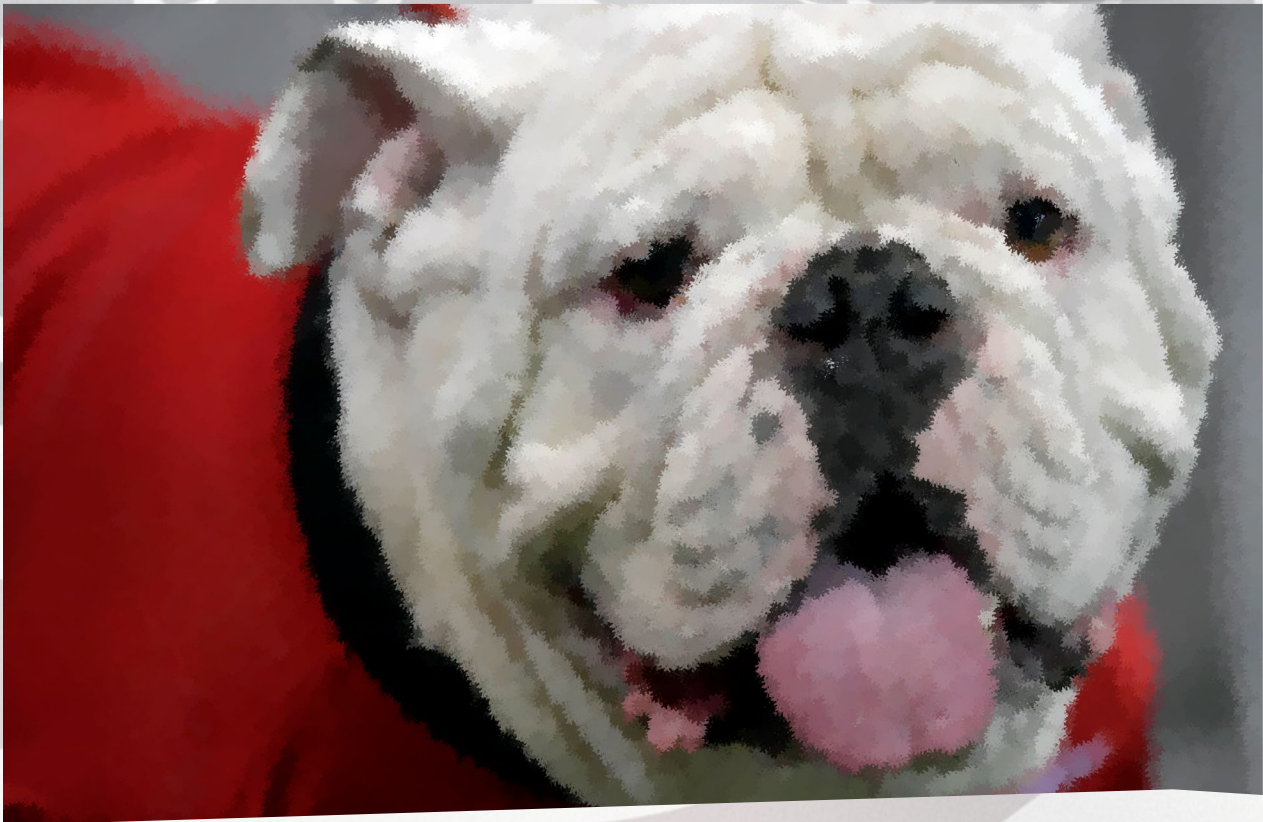
- Pensacola Airport (PNS) directly impacted by Ivan
- Response by SAV, BQK, DAB, with Admin support from MLB

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!



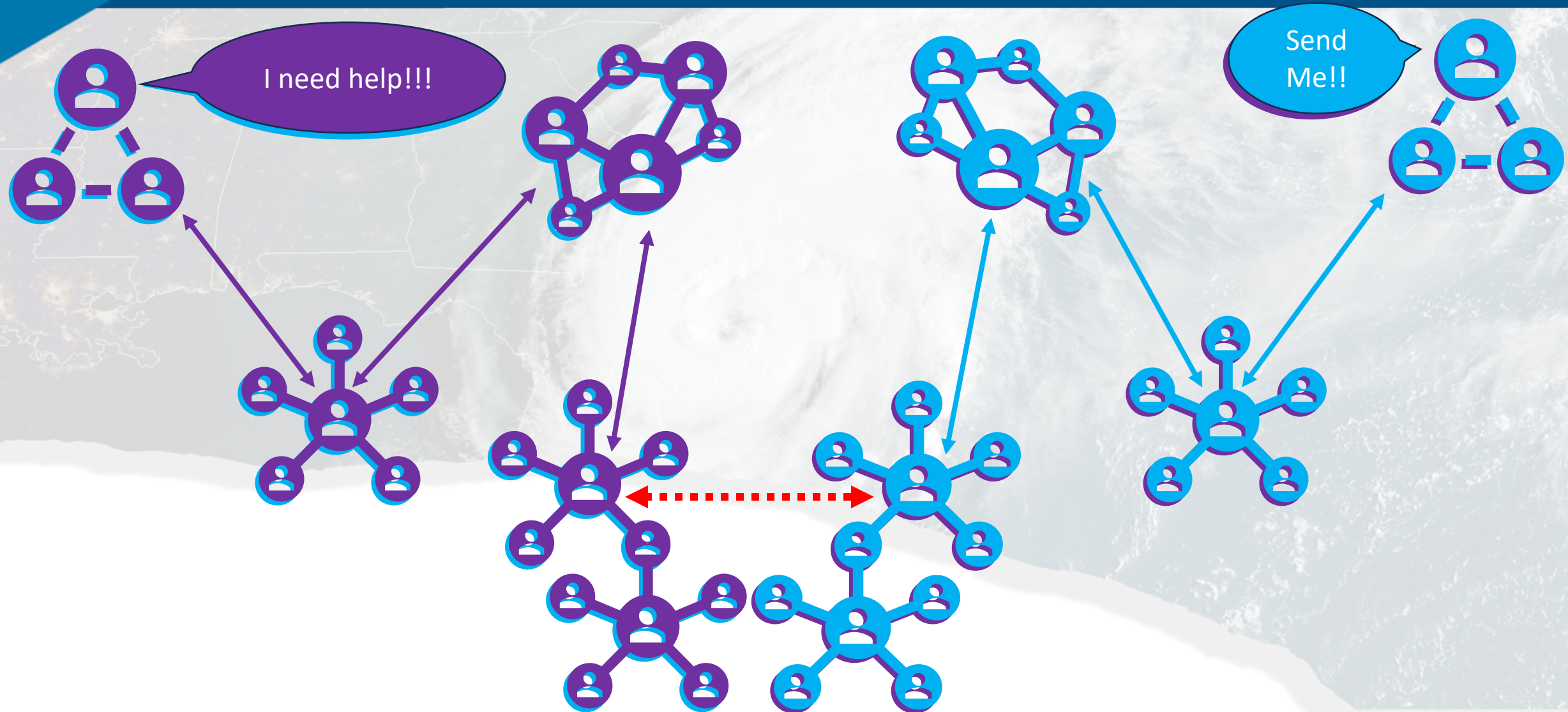
Caribbean Aviation Resilience & Recovery Group (CARRG)

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



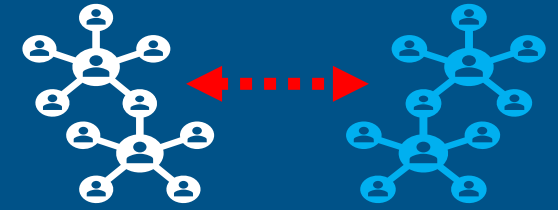
MUTUAL AID

* State Mutual Aid vs Nationwide Mutual Aid



MUTUAL AID

* INTRASTATE vs INTERSTATE

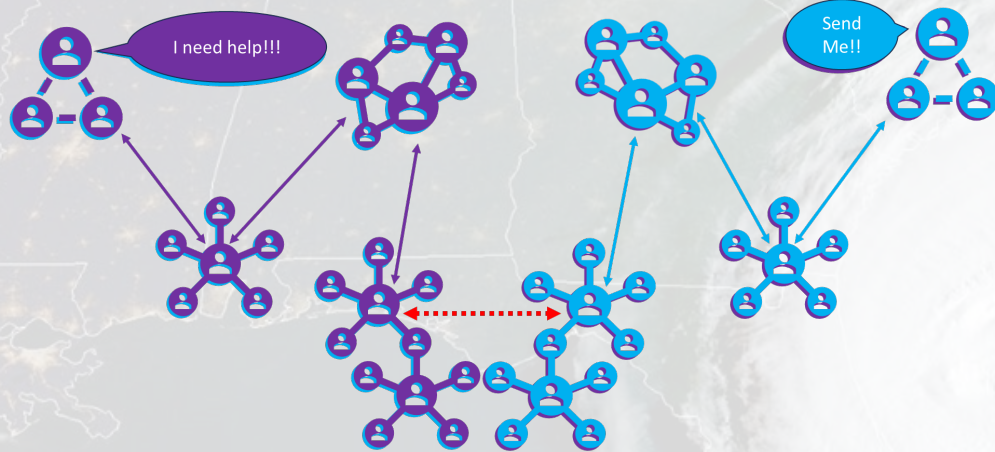
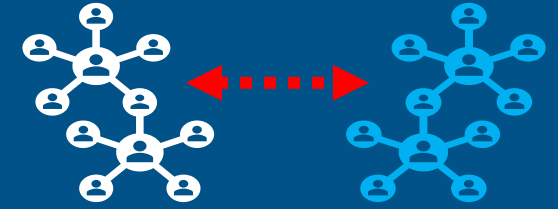


We Just Need A Mission #

* Document What You Send For FEMA Reimbursement

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

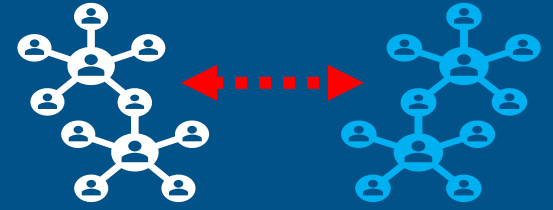
AIRPORT TO AIRPORT MUTUAL AID



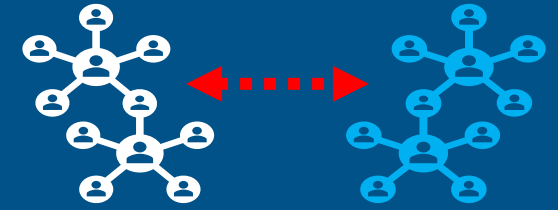
**GET TO KNOW THE FOLKS AT YOUR
STATE AND LOCAL EMERGENCY MANAGEMENT AGENCIES**

*They can help speed recovery up!!!

HAVE LIMITED STAFF?



HELP IS A PHONE CALL AWAY



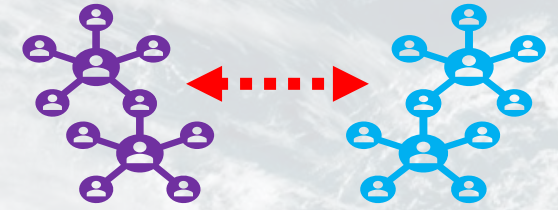
WE'RE HAPPY TO
HELP



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

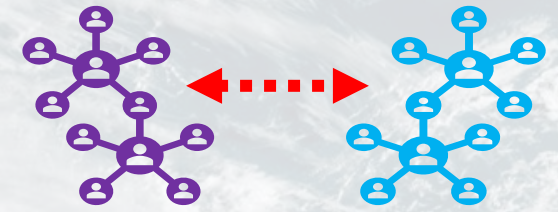
North Carolina

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. Runways closed. Ready for storm. 2pm ETA for landfall
APF - Barry Brown - No Issues. Expect 9ft surge. Elev 5' Sheltering @ ARFF
SRQ - CLSD. Ask for Jeff. Riding out PD OPS Facilities. Surge notations.
EYW - CLSD currently doing DA. Waiting on 2nd Storm Surge & Help

Wed 12M

RSW - EOC - Monitoring Run closed. No issues

APF - No changes

SRQ - Spoke w/ Jeff - Starting to see effects - FL Area (cont) - Still have power - Am ready w/ generators 46-50 (Wint)

EYW - Closed - No more standing water on Twy or Run. Cleaning up Run - Fuel is good - No assistance needed. On city power

PGD - Spoke w/ James - A foot under water, 3 horizon tanks on site. - Jim Cantore is Don Tom B

RCE/ porters airfield water (normal)

Thurs 8am

EYW - Run Open / Term Op. - Cleaning but open. No onmet needs
RSW - Initial Airfield. Damage/Delays fuel/transport. Bashed Per gate - NO COMPANET fuel no exiter.

- Opening up for humanitarian support only
- hoping to open airfield later today
- Terminal run minor leaks. 5-27 JA maintenance

APF -
MLB - All good nothing to report - new # 321 - 600-6000 (EOC)
SRQ - Ticket lane has roof damage, Trees down and debris - hoping to open at 8pm. No assistance needed. Status hour

TPA - What's SEADOG?
PIE - Small section fence down. Mail damage
LN - Open. No real damage



2pm 9/29
APF - RWs almost clear; ARFF has 2 RW's; VOR enabled; underground propane tanks floated;
On generator EOC est arrival 3hrs, opened @ 1100 for helos (one one yet); haven't assessed airfield lighting
TPA - Tampa International Airport is good. We don't need any other airports assistance.

FRIDAY

PGD - Goal is to get fencing up for weekend
o working with State on fencing but County EOC busy
o further County Airport - 2 Staff at Punta Gorda
o Full supporting. Waiting in TX to get mission at
APF - need airfield lighting/equipment/Electrician
o position County Airport now according to Barry
o MCO to support needs

ILM - Wilmington - Tami Keel - 910-946-1454
o all good ATM

CHS -
o all good atm

FLB -
o Left message

MYR - Myrtle Beach - OPS - 843-839-7392
o all good atm

Allen Head -

SAV RESPONSE TO PUNTA GORDA 2022



NAPLES (APF) RESPONSE TO PUNTA GORDA 2022

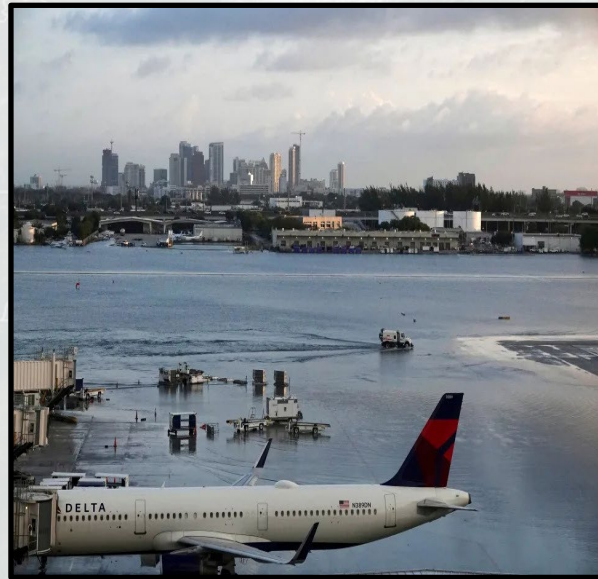
- APF sent a lektro tug to PGD, as well as assisted getting their fueling equipment tested and operational



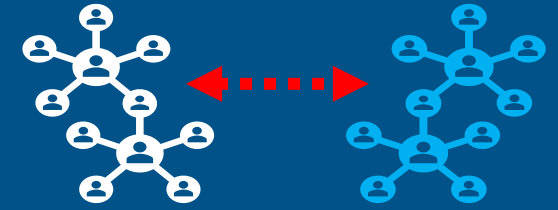


**PUNTA GORDA
2022**





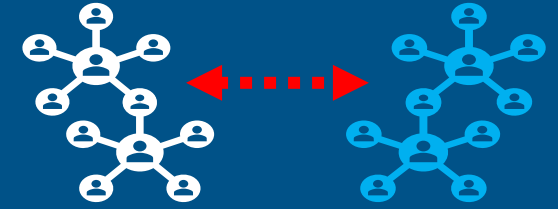
HELP IS A PHONE CALL AWAY



WE'RE HAPPY TO
HELP



AIRPORT MUTUAL AID SENT TO AVG



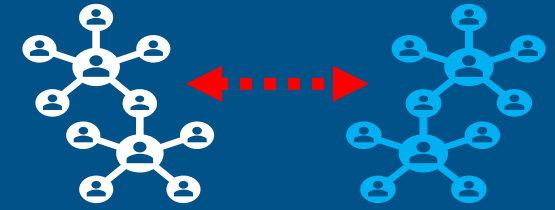
Approximately 5,820 manhours over ~2 weeks

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

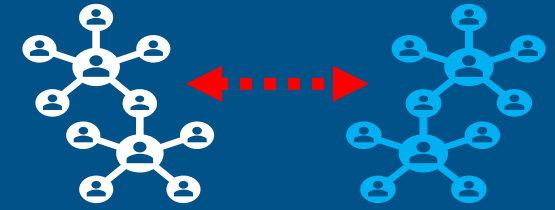


SEADOG RESPONSE TO AVG



- **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

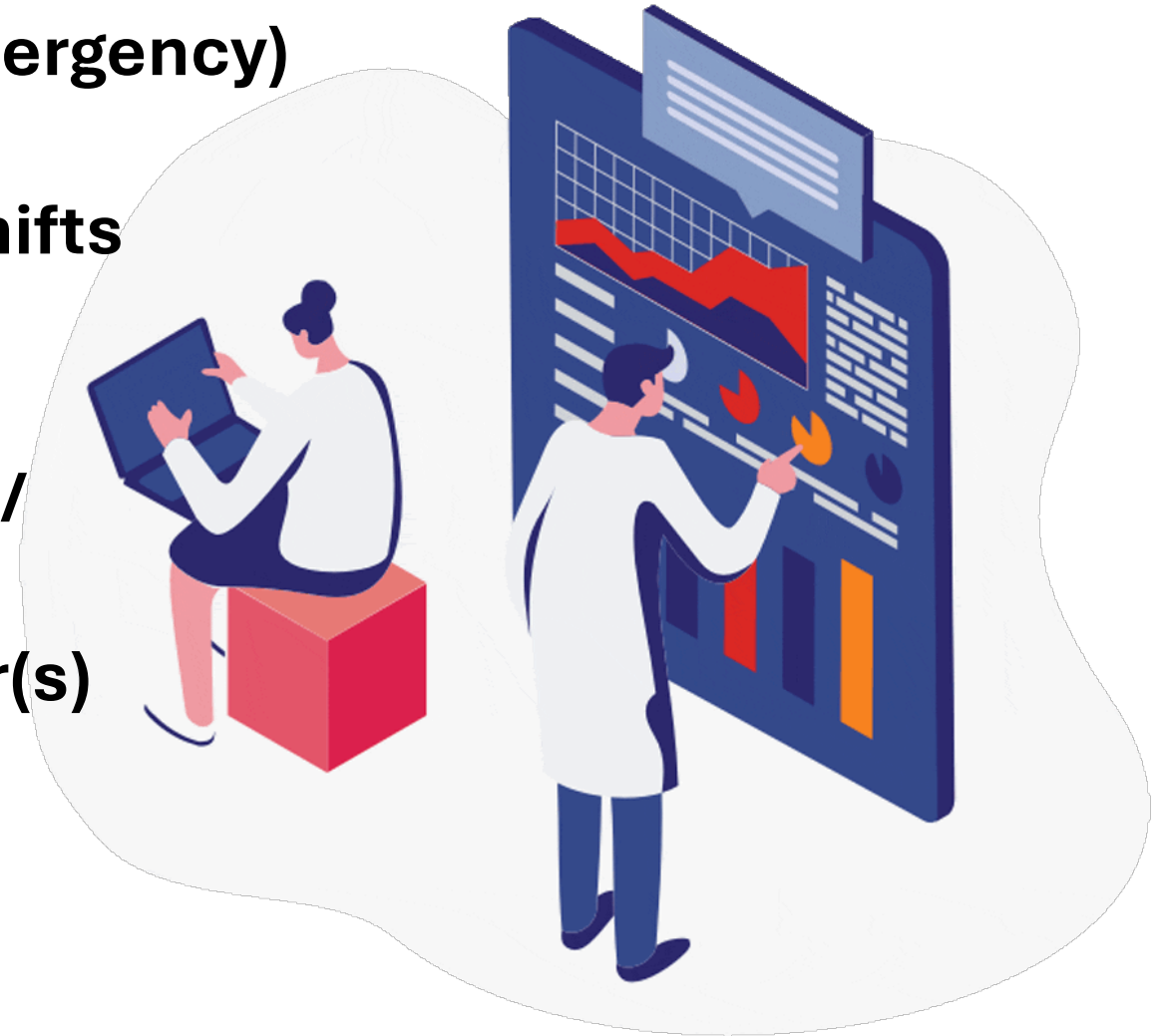
- Winter Storm Enzo (Jan 20th – 27th)



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 1st fall.

APF - Barry Brown - No Issues. Expect 9 ft surge. Elav. S' Sheltering @ ARFF

SRQ - CLSD. Ask for Jeff. Riding out PD, OPS, Facilities. Surge not sure.

EYW - CLSD. Currently doing DA. Waiting on 2nd storm surge help.

Wed 12N

RSW - EOC - Monitoring. Run closed. no issues

APF - no changes

SRQ - Spoke w/ Jeff - Starting to see effects - FL low level - Still have power. Are ready w/ generators 45-50 (Watt)

EYW - Closed - No more standing water on Twp or Run. Cleaning up fuel - Fuel is good - No assistance needed. On city power.

PGD - Spoke w/ James - A foot under water, 3 Harrison trees on site. - Jim Cantore is Down Time 8

RCE/parkus airfield water (normal)

Thurs. 8am

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

RSW - Initial airfield. Damage/Dobos fuel/pump. Busted Per gate. No commercial fuel no exit.

- opening up for humanitarian papers only
- hoping to open airfield later today.
- Terminal has minor leaks.
- 5-27 JB mauling.

APF -

MLB - All areas nothing to Report - new # 321 - 608-6700 (GOC)

SRQ - Ticket lane has roof damage. Trees down and debris - hoping to open at 8pm. No assistance needed. 608-6700

TPA - What's SEADOG?

PIE - Small section fence down. Aerial damage

LN - Open. No road damage

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

EOC - 239-590-4876
- 239-590-7468

TPA

EOC/ACC - 813-890-8799

SRQ Jeff ()

EOC - 941-359-2770^{ES}

PIE Mark (910-231-1052)

EOC/ACC -

LEAVE ALONE

MCO Tom Draper (407-249-8100)

EOC - 407-825-8800

PGD Mike (941-759-3182)

James Parish (941-582-3193)

EOC/ACC -

LAL Leland/Linder

OPS - 863-834-9411

FLL

Kevin Liu - 954-299-4940

Seana Spina - 954-299-4032

ACC - 954-589-2191

Ken -

Jay Chip (904-421-2305)

ACC - 904-241-2020

MLB

ACC - 321-602-6415/11

DAB

EOC/ACC -

2PM 9/19

APF - RWYs about clear; ARFF has 1st RWY; VOR ended; underground propane tanks floated; On generator EOC est arrival 3hrs; opened @ 1100 for helos (two are yab); 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

- o working with state on funding but County EOC busy
- o Martin County Airport - 2 Staff to Porto Condo
- o FLL supporting. Waiting on Tax to get mission 2

APF - need airfield lighting equipment / Electrician

- o No other County Airport now according to Barry
- o MCO to support needs

ILM - Wilmington - Tami Keel - 910-946-1454

all good ATM

CHS -

- o all good atm

FLO -

- o Left message

MYR - Myrtle Beach - OPS - 843-839-7392

- o all good atm

Hilton Head -

HIGH PERFORMANCE TRACKING...



WebEOC

?

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🔔¹

⚙️

DH

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

SIGNIFICANT EVENTS

MY POSITION LOG

USER REQUESTS

WEATHER

Boards

Boards (14)

🔍 Search

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

🔗

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HIGH PERFORMANCE TRACKING...



WebEOC

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DH

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)

A-Z SORT FIELDS

Default

1 UNKNOWN

20 ADVISORY

0 MINOR

0 MAJOR

1 CRITICAL

Type: Info Update

Priority: Advisory

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 ADMINon 09/12/2024 13:40:00

Type: Info Update

Priority: Advisory

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 ADMINon 09/12/2024 09:50:00

Type: Info Update

Priority: Advisory

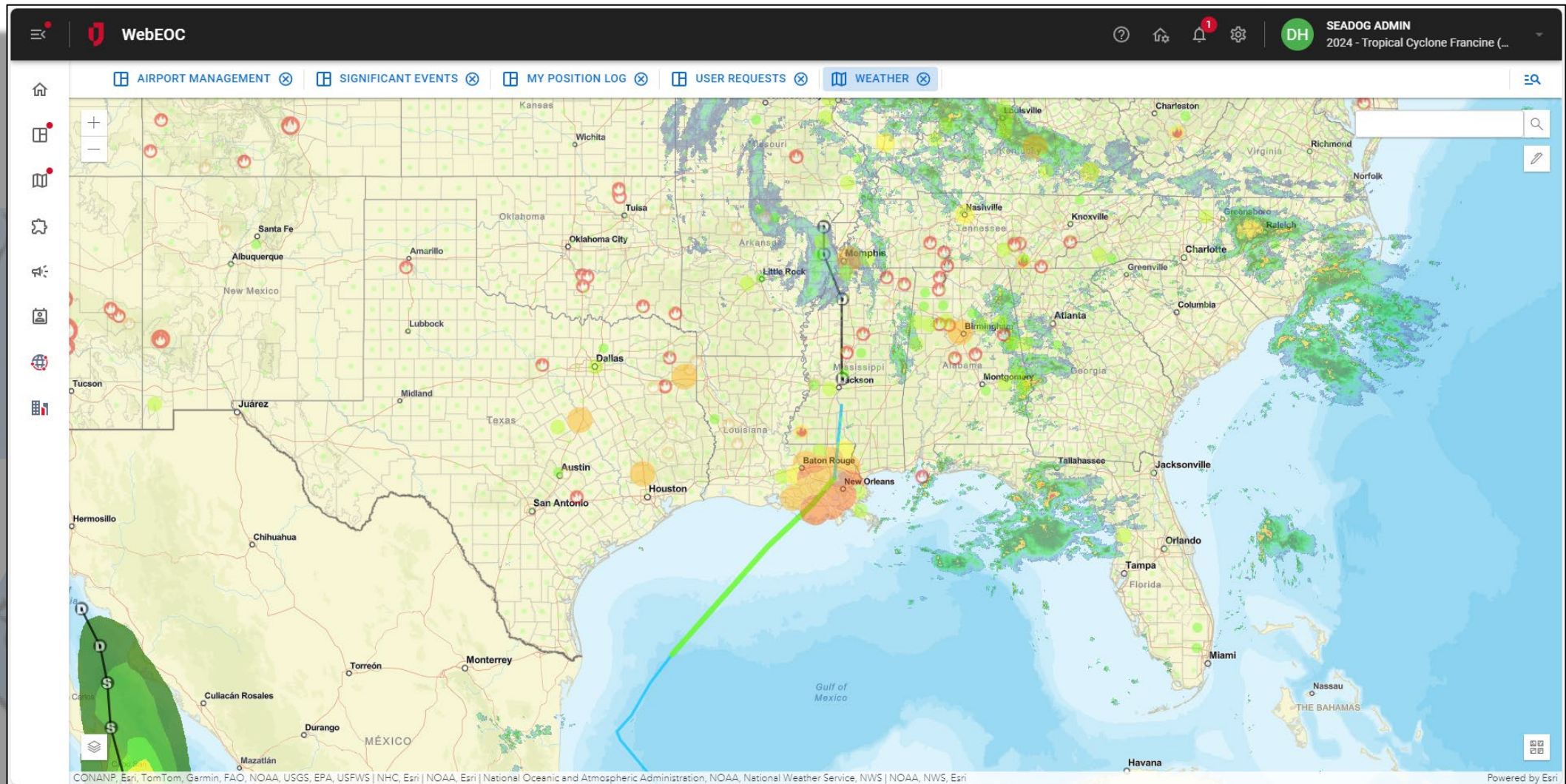
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Page 1 of 1

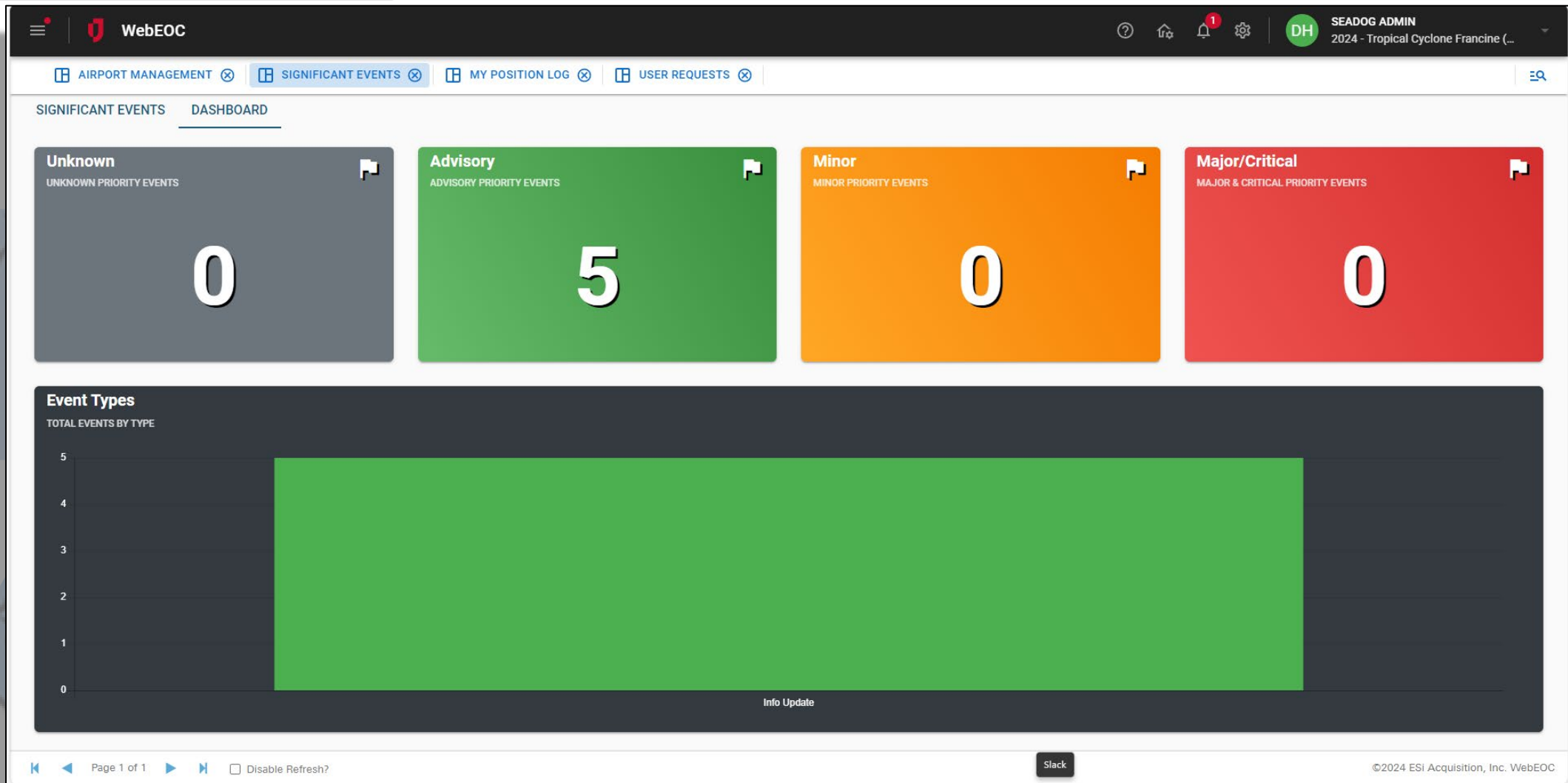
Disable Refresh?

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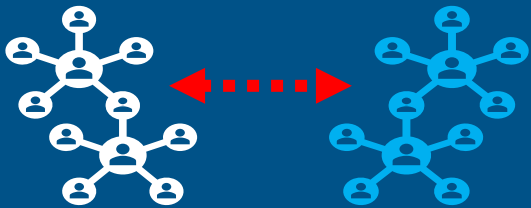
HIGH PERFORMANCE TRACKING...



HIGH PERFORMANCE TRACKING...



WINTER STORM: ENZO



WebEOC

SEADOG ADMIN
2025-01-21 Winter Storm Enzo

AIRPORT MANAGEMENT

Airports
2025-01-21 WINTER STORM ENZO

CLEAR MONITORED

CREATE NEW +

FILTER/SEARCH

MONITORED ONLY

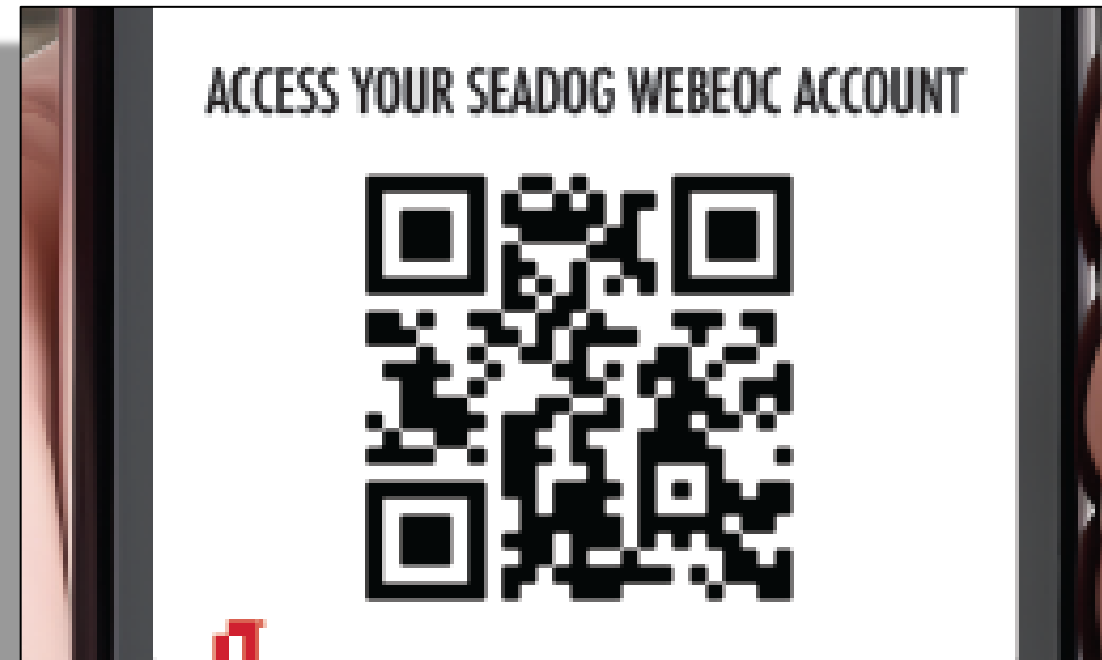
SEADOG MEMBERS ONLY

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

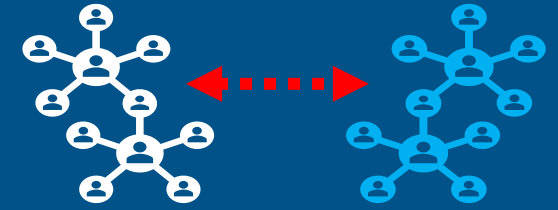
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HOW CAN I GET ON THIS COOL SYSTEM



Who Cares?



Want to Become a Part of SEADOG?



<https://seadogops.com/>



<https://www.facebook.com/SEADOGInfo/>



<https://twitter.com/SEADOGInfo>



**REACH US AT
SEADOG@flySAV.com**

ports • Helping • Airports
PORT DISASTER OPERATIONS GROUP

QUESTIONS?

Richard A. Rushing III, M.S., A.A.E.
Director of Operations

Savannah Airport Commission
400 Airways Ave
Savannah, GA 31408
Office - (912) 964-0514 - ext: 3503
Cell - (912) 433-3798
rrushing@flysav.com





September 26-27, 2024

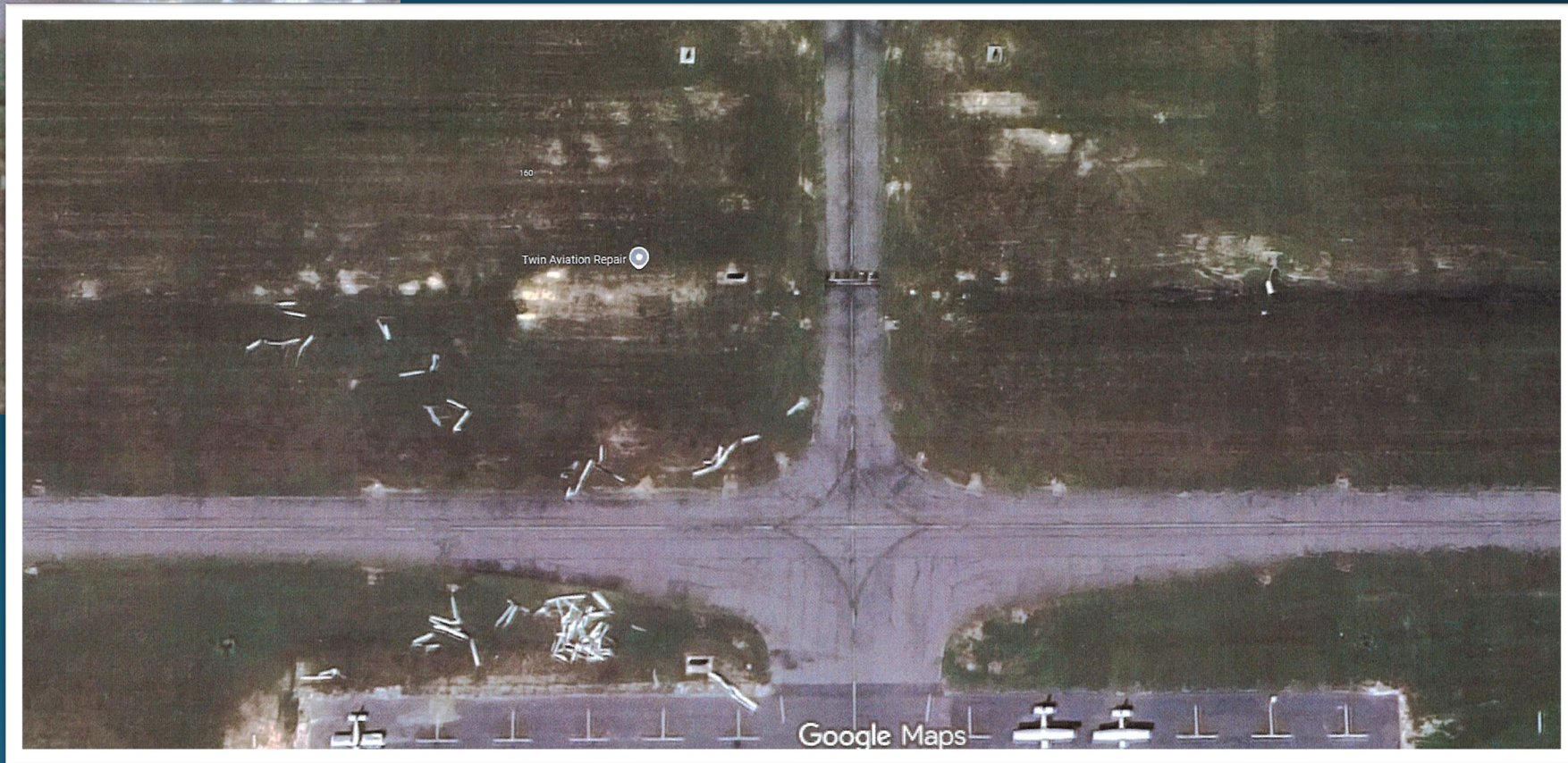
Helene Vs. Douglas

Power Outage Satellite Comparison



Metal Roof 100% Removed





























2.2

















