# **Surveillance and Broadcast Services**

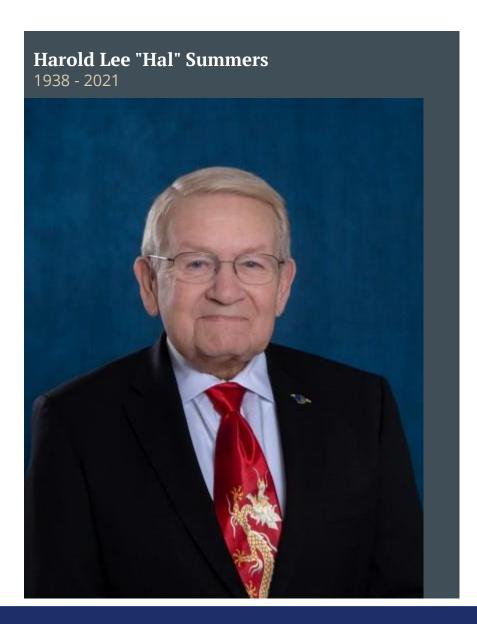
# FAA Gulf of Mexico Sustainment Team Update

Presented to FAA-Industry Gulf of Mexico Agreement Implementation Committee

By: FAA Gulf Team

Date: January 19, 2022







AIC Salutes
Mr. Hal!
Share as you wish...



# FAA-Agreement Implementation Committee "AIC"

# Why are we here?

- The AIC is a product of the 2006 FAA-Industry Gulf of Mexico Memorandum of Agreement and subsequently carried over by the 2021 Memorandum of Understanding between FAA, HSAC, and HAI for aviation safety in the Gulf of Mexico
- The purpose of the AIC is to foster cooperation, commitment, accountability, and trust to improve and sustain quality Air Traffic Services in the Gulf
- The AIC assists the FAA in strategic planning by providing feedback / recommendations
- The AIC is used to assess the coverage of installed FAA equipment and whether additional areas should be addressed

Safety / Service



### **FAA Infrastructure Status**

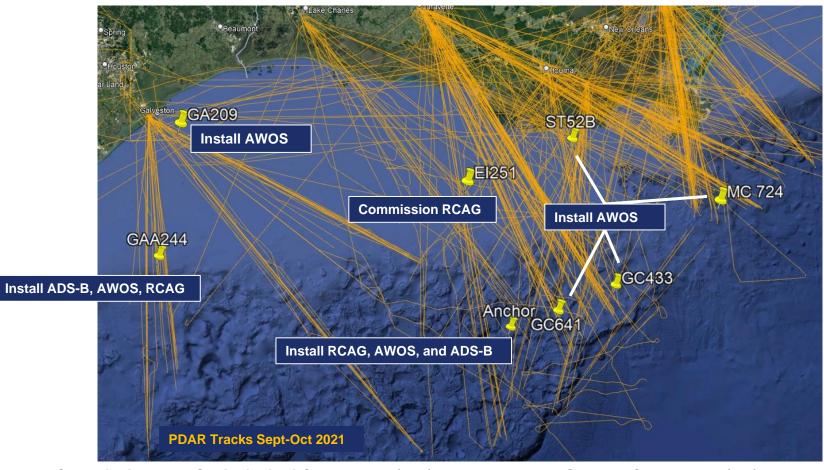
Rana Obeid, Federal Lead



# **Agenda**

- Regular Business
  - FAA Infrastructure Status
  - ADS-B/VHF Comm Coverage
  - Installation Updates
- New Business

### **2022 Offshore Installation Projects**

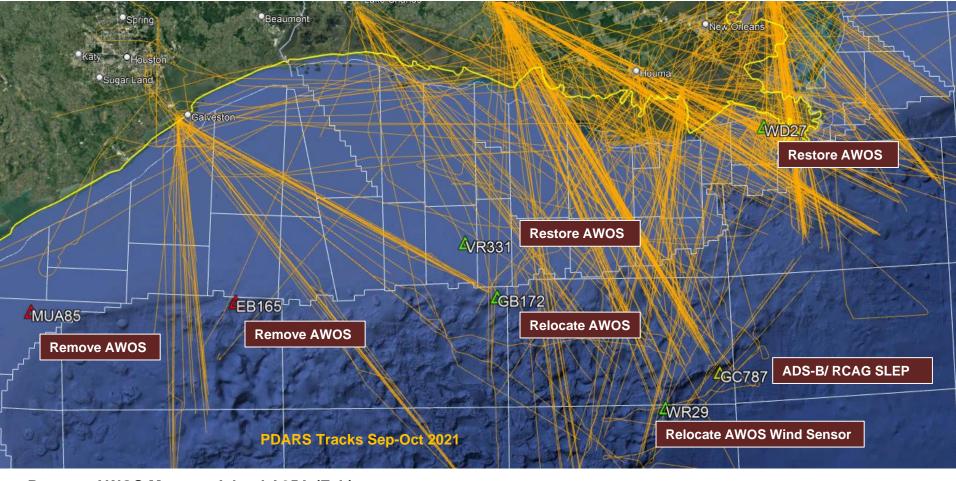


Commission AWOS Mississippi Canyon 724 (Jan) Install AWOS Galveston 209B (Jan) Commission RCAG Eugene Island 251A (May) Install AWOS South Timbalier 52B (Jun)

Install AWOS Green Canyon 433 (Jul)
Install AWOS Green Canyon 641 (Aug)
Install ADS-B, AWOS, RCAG Galveston A244A (Sep)
Install ADS-B, AWOS, RCAG Green Canyon 763 (2023)



# **2022 Offshore Sustainment Projects**



Remove AWOS Mustang Island A85A (Feb) Relocate AWOS Garden Banks 172 (Sep) Relocate AWOS wind sensor Walker Ridge 29 (Nov) Remove AWOS East Breaks 165 (Dec)

Restore AWOS Vermillion 331 (Jul)
Restore AWOS West Delta 27 (Jun)
ADS-B/RCAG SLEP Green Canyon 787 (unknown)

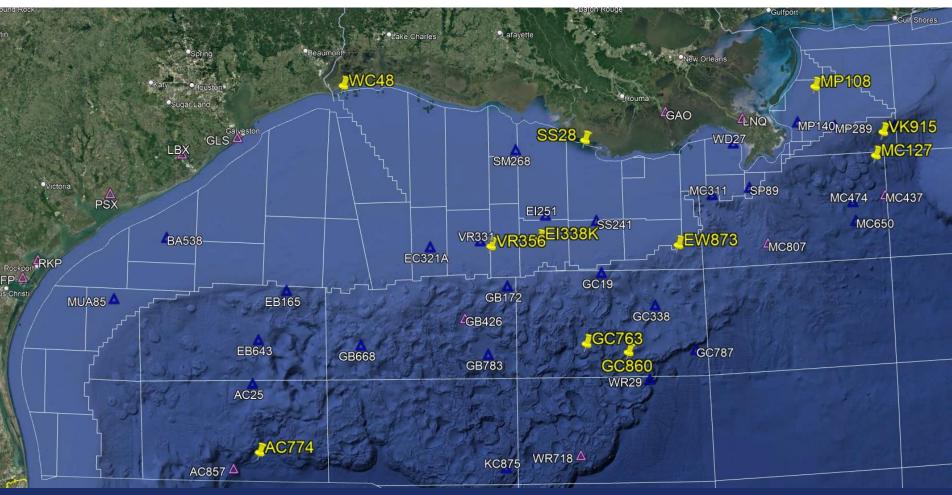


# Projected AWOS Losses within Next Five (5) Years

- 1. Alaminos Canyon 25
- 2. East Breaks 165
- 3. East Breaks 643A
- 4. East Cameron 321A
- 5. Eugene Island 215B
- 6. Garden Banks 668
- 7. Mississippi Canyon 311A
- 8. Mustang Island A85A
- 9. South Marsh 268A
- 10. Vermilion 331A
- = No replacement identified, <u>seeking replacement suggestions</u>
- = Replacement not planned
- = Replacement identified



# Candidate Sites Identified for Possible AWOS Installation Within Next 2-3 Years





# **AWOS Coverage**

Colleen Ahlers, Program Management

### AWOS Coverage – Oct 7, 2020

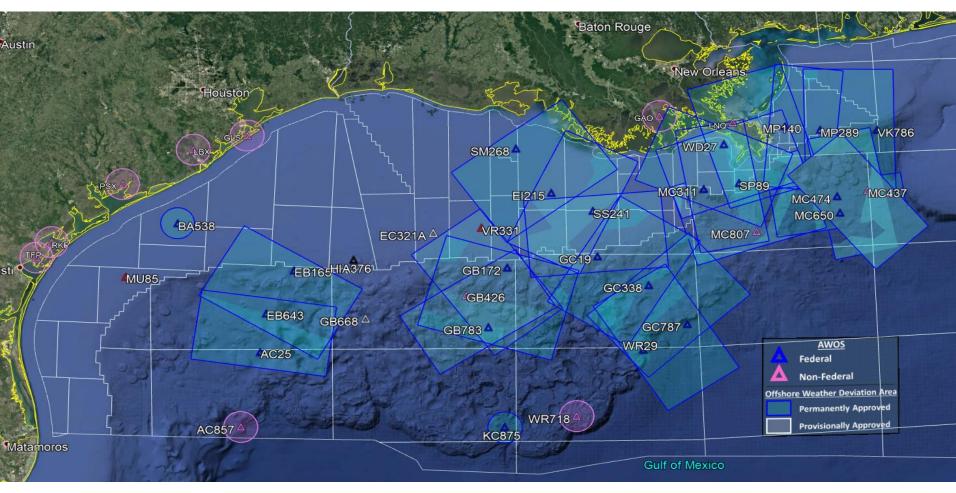


▲ Out of service

**Federal AWOS in Operation: 14** 



# AWOS Coverage – May 4, 2021



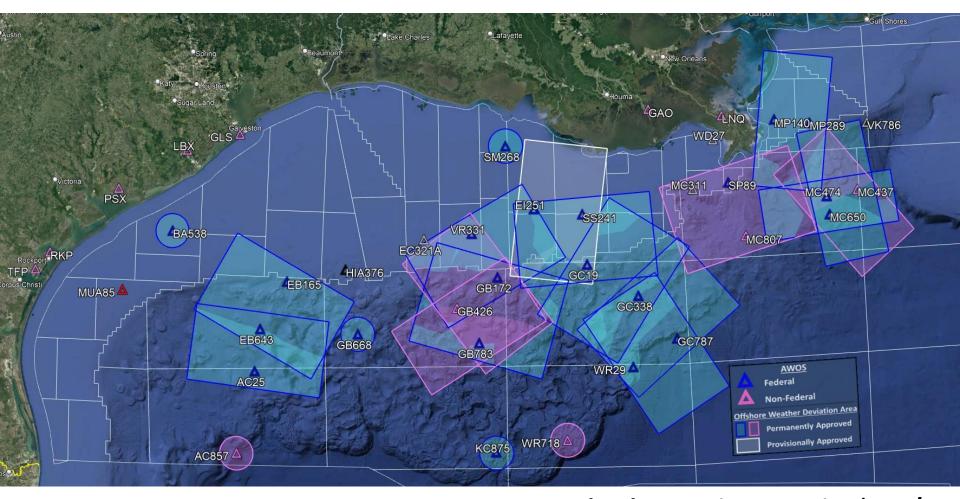
- ▲ Out of service due to decommissioning (HIA376)
- ▲ Out of service due to platform shut-in (MUA85 & VR331)
- ▲ Out of service due to hurricane damage (GB668 & EC321A)

#### Federal AWOS in Operation\*: 22

Additional Stations may be out of service due to regular maintenance



# AWOS Coverage - Sept 29, 2021



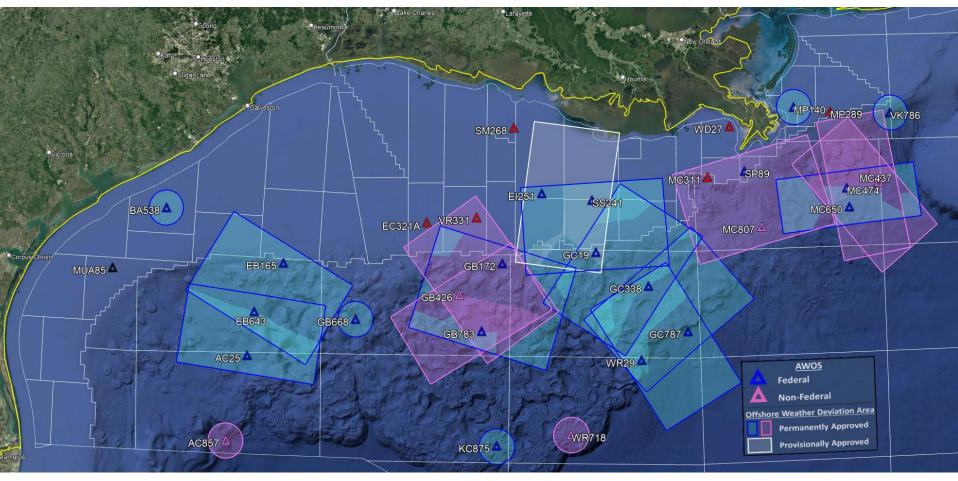
- ▲ Out of service due to decommissioning (HIA376)
- ▲ Out of service due to platform shut-in (MUA85)
- ▲ Out of service due to hurricane damage (EC321A, MC311, VK786, WD27)

Federal AWOS in Operation\*: 20/26

\*may be temporarily out of service due to maintenance



# AWOS Coverage – Jan 5, 2022



▲ Out of service due to shut-in/decommissioning (MUA85)

▲ Out of service due to hurricane damage (EC321A, MC311, MP289, SM268, VR331, WD27)

#### Federal AWOS in Operation\*: 19/26

\*Additional AWOS may be temporarily out of service due to required maintenance

FAA-Industry Agreement Implementation Committee Meeting January 19, 2022



#### **FAA Infrastructure Out of Service in 2021**

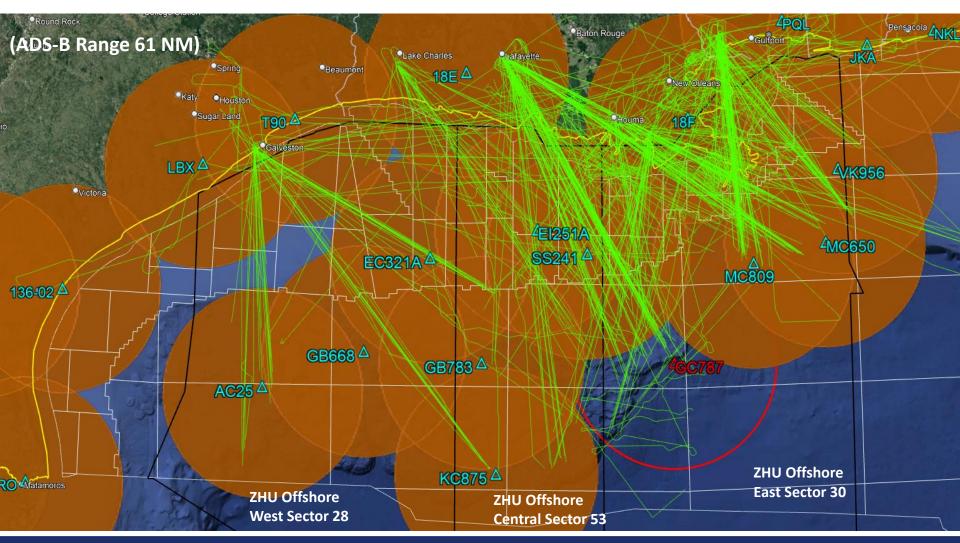
- The following AWOS platforms are currently shut-in and will be decommissioned:
  - Mustang Island A85A (MZG)
- The Following AWOS's are out of service due to storm damage:
  - East Cameron 321A (EZP)
  - Green Canyon 19 (XER)
  - Mississippi Canyon 311 (MDJ)
  - Main Pass 289 (VKY)

- South Marsh 268 (SCF)
- Vermillion 331 (VQT)
- Viosca Knoll 786 (VOA)
- West Delta 27 (DLP)

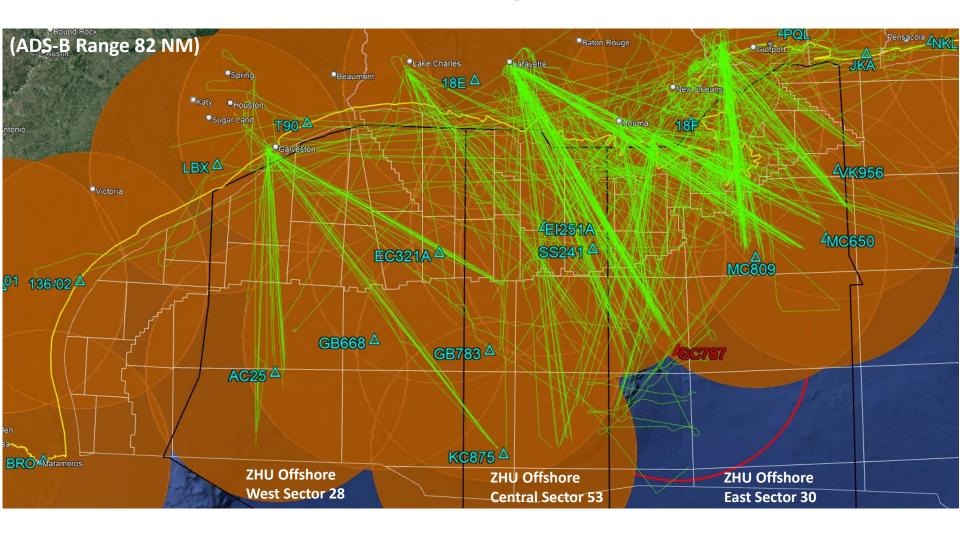
# **ADS-B/VHF Comm Coverage**

Billy Majeau, Program Management

## **Current ADS-B Coverage 1500' MSL**



## **Current ADS-B Coverage 3000' MSL**



### VHF Comm Coverage 3,000' MSL

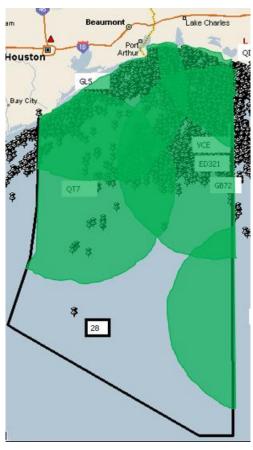
#### Offshore West /S28

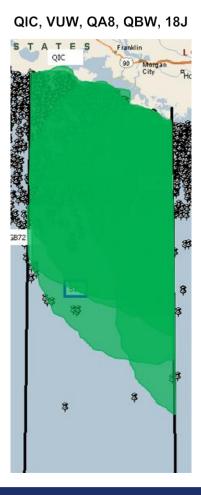
#### Offshore Central / S53

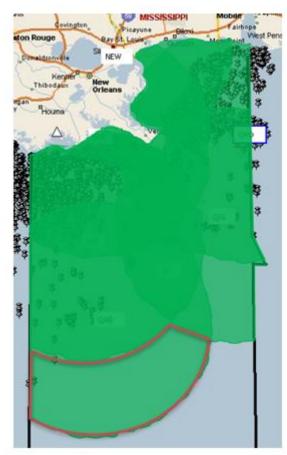
#### Offshore East / S30

GAO/GNI\*, QA8, QVO, QIG, 18J









# **Green Canyon 787 FAA AC Outage**

#### **Outage Update**

- The air conditioning units installed in the FAA building at GC-787 (Atlantis) have been out of service since last fall. Efforts to repair them have been hampered by the pandemic and other project-specific constraints.
- On September 28, 2021, the FAA executed a contract to allow the platform owner to complete a cost estimate and perform a site survey to establish repair plans.

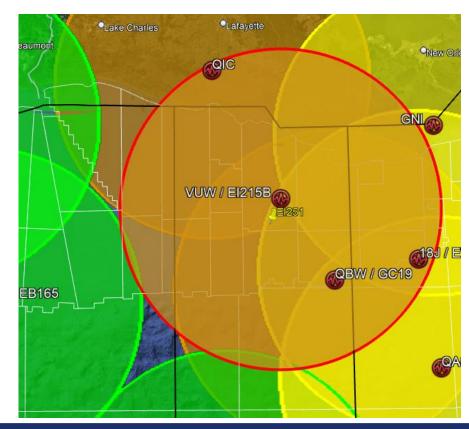
#### **Impact to Operators**

- Surveillance (ADS-B) radios were turned off during the summer when the maximum safe operating temperature for that equipment was exceeded.
- VHF Comm radios have a higher temp threshold and can remain operational.
   An unrelated telecommunication issue has rendered VHF Comm radios out of service temporarily.

# El251 VHF Comms to Replace El215

VHF Comms have been installed at Eugene Island 251 (EKE) to replace Eugene Island 215 VHF Comms.

The VHF Comms at Eugene Island 215 were shut down and decommissioned before the VHF Comms at Eugene Island could become operational due to unexpected procurement delays of FAA telecommunication equipment.



# Non-Operational Spaced Based ADS-B Data

Colleen Ahlers, Program Management

# Non-Op Space Based ADS-B (SBA)



**New Data Capture** 

See VFR traffic for the first time in recent history



ADS-B, Weather, and VHF Comm Coverage Analysis

**Outage reports** 

Risk assessments

**Industry updates** 



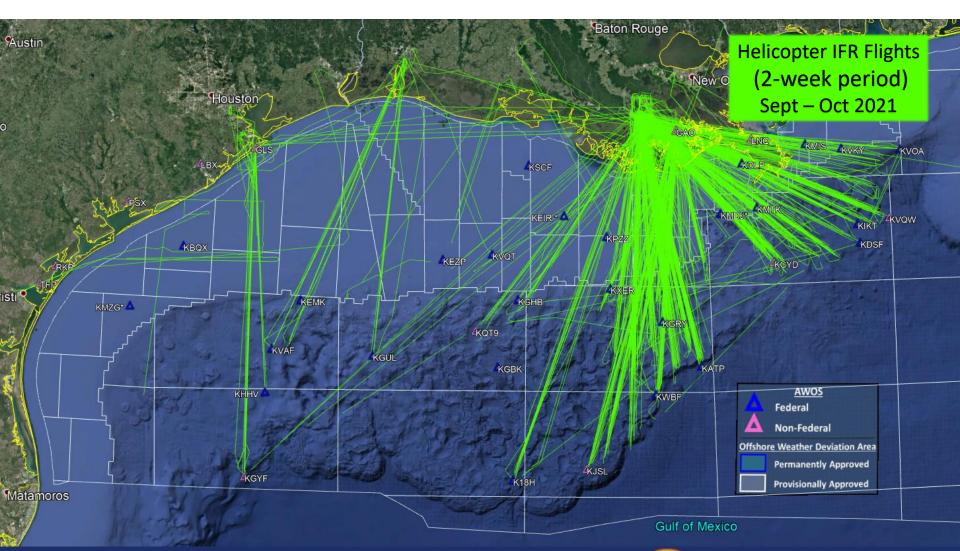
**Strategic Analysis** 

Installation planning, short and long term

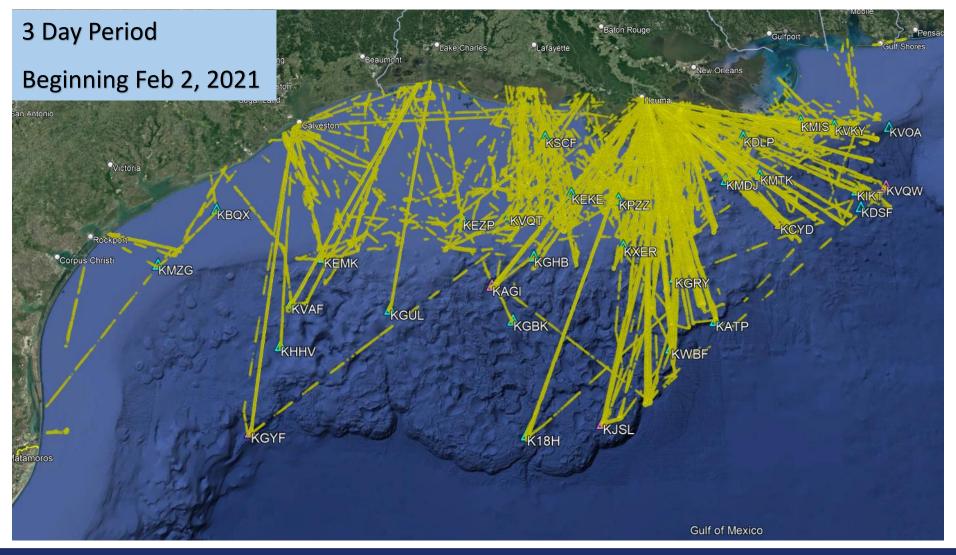
**Prioritization of Resources** 

**Trend Assessment** 

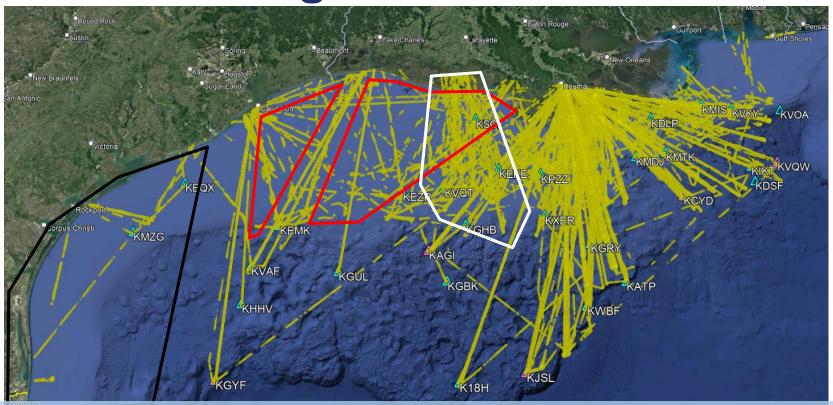
### **PDARS Data**



# Non-Op SBA Data



# **Initial Findings**



- 1) The area outlined in black has minimal VFR & IFR traffic.
- 2) The areas outlined in red are light in IFR traffic and heavy with VFR traffic.
- 3) The southbound and southeast bound traffic in the area outlined in white nearly completely VFR traffic.

### **AIC Decisions**

Colleen & Billy

#### **AIC Decision Status**

- At recent AIC meetings, FAA and industry Stakeholders made the following decisions about AWOS coverage:
  - South Marsh 107 to replace South Marsh 268 investigating feasibility
  - Hess proposed Garden Banks 260 platform as a candidate site for possible AWOS installation – investigating feasibility
  - Include Site Elevation and Wind sensor location in AWOS Status Update planning implementation
  - Decision to install an AWOS at Tank Battery 45 pending owner's approval and site survey

At the May 2021 AIC, a recommendation from industry and subsequent decision was made to incorporate elevation information into the AWOS Status Update to assist pilots in evaluating METAR Wind and Altimeter data.

While enhancing the document, the column concerning Wind Reliability was also reformatted.

Wind Site **ICAO** Helideck Commissioned Facilities Block ID Phone # Frequency Lat/Long NOTAM Sensor Elevation LID Elevation<sup>1</sup> Elevation<sup>1</sup> Alaminos Canyon 25/Hoover-Diana (ExxonMobil) AC25 119.075 KHHV 713-431-9699 26.94/-94.69 216 128 199 Alaminos Canyon 857/Perdido (Shell E&P) AC857 KGYF 504-425-4008 120,275 26.13/-94.90 250 Brazos 538 (Williams Atlantic-Gulf) 28.31/-95.62 80 78 BA538 **KBQX** 979-843-7255 118.375 86 East Breaks 165 (Fieldwood Energy) EB165 KEMK 337-210-8993 119,475 27.82/-94.32 65 120 86 East Breaks 643A/Boomvang Spar (Occidental) 27.35/-94.62 WIND UNREL 225-360 EB643 KVAF 832-636-9297 119.525 129 125 150 E0004 00 00/ 00 70

Column Reformatted



New Columns

# Previous Design

Winds Unreliable
No
No
No
No
Yes, 225-360°
No
No
No
Yes, 345-022°
Yes, all directions
Yes, from the East
Yes, all directions
Yes
No
Yes 110-160°
Yes, from the South
Yes 140-180°

# Proposed Design

NOTAM	_
WIND UNREL 225-360	
WIND UNREL 345-022	
WIND UNREL ALL DIR	
WIND UNREL East	
WIND UNREL ALL DIR	
WIND UNREL	
WIND UNREL 110-160	
WIND UNREL South	
WIND UNREL 140-180	

#### **Reasons for Change:**

- 1. Follows aviation standards
- 2. Increased reading efficiency

#### **New Columns with Elevation Information**

New Columns and explanations, per May 2021 AIC decision

Commissioned Facilities	Block ID	ICAO LID	Phone #	Frequency	Lat/Long	NOTAM	Wind Sensor Elevation <sup>1</sup>	Site Elevation 1*	Helideck Elevation <sup>1</sup>
Alaminos Canyon 25/Hoover-Diana (ExxonMobil)	AC25	<u>KHHV</u>	713-431-9699	119.075	26.94/-94.69		216	128	199
Alaminos Canyon 857/Perdido (Shell E&P)	AC857	<u>KGYF</u>	504-425-4008	120.275	26.13/-94.90				250
Brazos 538 (Williams Atlantic-Gulf)	BA538	<u>KBQX</u>	979-843-7255	118.375	28.31/-95.62		80	78	86
East Breaks 165 (Fieldwood Energy)	EB165	KEMK	337-210-8993	119.475	27.82/-94.32		120	65	86
East Breaks 643A/Boomvang Spar (Occidental)	EB643	KVAF	832-636-9297	119.525	27.35/-94.62	WIND UNREL 225-360	129	125	150
0044 0407	F0004	VEZD	F0.4.000.0000	¥40.050	00 001 00 70		V		
West Delta 27A (Cox Operating)	WD27	<u>KDLP</u>	504-297-7028	120.425	29.12/-89.55		114	103	115

Federal (FAA-leased) AWOS sites indicated with alternating white and teal fill. Non-Federal (privately owned) AWOS sites indicated with pink fill.

elevation is shown in feet above MSL (Mean Sea Level)

To access METAR Reports:

\*site elevation refers to the elevation of the barometric pressure sensor at the main sensor suite

https://www.aviationweather.gov/metar?gis=off



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# 1. Commissioned AWOS information

1/XX/2022													
Commissioned Facilities	Block ID	ICAO LID	Phone #	Frequency	Lat/Long	NOTAM	Wind Sensor Elevation <sup>1</sup>	Site Elevation 1*	Helideck Elevation <sup>1</sup>				
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Alaminos Canyon 857/Perdido (Shell E&P)	AC857	KGYF	504-425-4008	120.275	26.13/-94.90				250				
Brazos 538 (Williams Atlantic-Gulf)	BA538	KBQX	979-843-7255	118.375	28.31/-95.62		80	78	86				
East Breaks 165 (Fieldwood Energy)	EB165	KEMK	337-210-8993	119.475	27.82/-94.32		120	65	86				
East Breaks 643A/Boomvang Spar (Occidental)	EB643	KVAF	832-636-9297	119.525	27.35/-94.62	WIND UNREL 225-360	129	125	150				
East Cameron 321A (W&T Offshore)	EC321	KEZP	504-323-0220	119.050	28.22/-92.79		135	75	100				
Eugene Island 251A (Arena Offshore)	El251A	KEKE	985-510-2076	119.925	28.50/-91.57		123	87	104				
Garden Banks 172/Salsa (Shell E&P)	GB172	KGHB	504-321-2911	118.025	27.84/-91.99		110	68	97				
Garden Banks 426/Auger (Shell E&P)	GB426	KAGI	504-728-5011	118.375	27.55/-92.44	WIND UNREL 345-022			130				
Garden Banks 668/Gunnison Spar (Occidental)	GB668	KGUL	832-636-9298	119.025	27.30/-93.54	WIND UNREL ALL DIR	166	160	175				
Garden Banks 783/Magnolia TLP (W&T)	GB783	KGBK	713-513-8692	118.825	27.20/-92.20	WIND UNREL East	191	178	191				
Green Canyon 19 (Shell Pipeline)	GC19	KXER	504-728-8250	118.55	27.94/-91.00	WIND UNREL ALL DIR	95	90	119				
Green Canyon 338/Front Runner (Murphy E&P)	GC338	KGRY	281-846-7109	118.875	27.62/-90.44	WIND UNREL	192	183	190				
Green Canyon 787/Atlantis (BP)	GC787A	KATP	979-235-2225	119.525	27.19/-90.03		210	209	201				
Keathley Canyon 875/Lucius Spar (Occidental)	KC875	<u>K18H</u>	832-636-9295	118.075	26.12/-92.04	WIND UNREL 110-160	212	200	207				
Main Pass 140B (Fieldwood Energy)	MP140B	KMIS	337-210-8995	119.825	29.30/-88.84	WIND UNREL South	85	79	78				
Main Pass 289C (Fieldwood Energy)	MP289C	KVKY	337-210-8989	118.075	29.25-88.44	WIND UNREL 140-180	115	86	104				
Mississippi Canyon 311A (Fieldwood Energy)	MC311A	<u>KMDJ</u>	337-210-8997	119.325	28.64/-89.79		90	65	100				
Mississippi Canyon 437/Appomattox (Shell E&P)	MC437	KVQW	504-425-4390	118.325	28.57/-87.93				161				
Mississippi Canyon 474/Na Kika (BP)	MC474	KIKT	979-230-4223	118.025	28.52/-88.29		124	118	137				
Mississippi Canyon 650/Blind Faith (Chevron)	MC650	KDSF	985-773-7295	119.925	28.34/-88.16	WIND UNREL 290-010	110	105	145				
Mississippi Canyon 807/Mars (Shell E&P)	MC807	KCYD	504-425-1521	119.025	28.1/-89.13								
Mustang Island A85A (EnVen Energy Ventures)	MUA85A	KMZG	504-208-2392	119.325	27.73/-96.19	WIND UNREL 010-190	86	80	95				
Ship Shoal 241 (Shell Pipeline Company)	SS241	<u>KPZZ</u>	985-288-6250	121.125	28.43/-91.03		107	88	100				
South Marsh 268A (Fieldwood Energy)	SM268A	KSCF	337-210-8994	119.575	29.12/-91.87		78	71	100				
South Pass 89E-B (Shell Pipeline Company)	SP89E-B	KMTK	337-761-8234	124.175	28.70/-89.39		123	128	148				
Vermilion 331A (Talos Energy)	VR331A	KVQT	281-619-7805	118.125	28.27/-92.26		90	78	104				
Viosca Knoll 786/Petronius (Chevron)	VK786	KVOA	985-773-7883	118.925	29.23/-87.78	WIND UNREL 355-005	160	131	174				
Walker Ridge 29/Big Foot (Chevron)	WR29	KWBF	985-773-5497	118.525	26.93/-90.51	WIND UNREL ALL DIR	221	206	244				
Walker Ridge 718/Jack St. Malo (Chevron)	WR718	<u>KJSL</u>	985-773-5178	119.575	26.14/-91.15	WIND UNREL NNE							
West Delta 27A (Cox Operating)	WD27	KDLP	504-297-7028	120.425	29.12/-89.55		114	103	115				

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Federal Aviation Administration

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1/XX/2022													
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Garden Banks 426/Auger (Shell E&P)	GB426	KAGI	504-728-5011	118.375	27.55/-92.44	WIND UNREL 345-022			130				
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Main Pass 140B (Fieldwood Energy)	MP140B	<u>KMIS</u>	337-210-8995	119.825	29.30/-88.84	WIND UNREL South	85	79	78				
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Mississippi Canyon 474/Na Kika (BP)	MC474	<u>KIKT</u>	979-230-4223	118.025	28.52/-88.29		124	118	137				
Mississippi Canyon 650/Blind Faith (Chevron)	MC650	KDSF	985-773-7295	119.925	28.34/-88.16	WIND UNREL 290-010	110	105	145				
Mississippi Canyon 807/Mars (Shell E&P)	MC807	KCYD	504-425-1521	119.025	28.1/-89.13								
Mustang Island A85A (EnVen Energy Ventures)	MUA85A	KMZG	504-208-2392	119.325	27.73/-96.19	WIND UNREL 010-190	86	80	95				
Ship Shoal 241 (Shell Pipeline Company)	SS241	<u>KPZZ</u>	985-288-6250	121.125	28.43/-91.03		107	88	100				
South Marsh 268A (Fieldwood Energy)	SM268A	KSCF	337-210-8994	119.575	29.12/-91.87		78	71	100				
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Federal Aviation Administration

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<sup>\*</sup>site elevation refers to the elevation of the barometric pressure sensor at the main sensor suite

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#### Page 2

- **Advisory Information**
- Planned Removals
- **Planned Commissions**
- Possible Installation Locations

			1/XX/2022					
			ADVISORY					
• MUA85A is currently unavailable due to p	olatform shu	ut-in						
AWOS Removal In-Progress or Completed	Block ID	ICAO LID	Phone #	Frequency	Lat/Long		Status	
High Island A376B (Fieldwood Energy)	HIA376B	KHQI	337-210-8999	118.275	27.934/-93.669	Plan	ned for 2022	
	_	1040				1		
AWOS Awaiting Commission	Block ID	ICAO LID	Phone #	Frequency	Lat/Long	Strategic Impact		
Galveston 209A (Arena Offshore) - Jan 2022	GA209A	KGVW	TBD	118.250	29.060/-88.091	Replaces SA13B		
Mississippi Canyon 724/ Gulstar One (Hess/Williams) - Jan 2022	MC724	KGLX	TBD	TBD	28.234/-88.995	Expands Coverage / A Redundancy		
Locations Under Consideration for Possible Federal AWOS Installation	Block ID			Objective				
Galveston A244A (Williams)	GAA244A	New Insta	all / Leapfrog/replace EB-16	35 (EMK)				
Green Canyon 443/ King's Quay (Murphy)	GC443	New Inst	all / Pairs with GB172, GB6	68, and GB783				
Green Canyon 641/ Tahiti (Chevron)	GC641	New Inst	all / Pairs with WR29, GC78	37, and GC338				
High Island A547B (Arena Offshore)	HIA547B	Replace I	HI-A376B (HQI)					
Mississippi Canyon 941/ Titan (Equinor)	MC941	New Inst	all/ Pairs with MC807 and I	MC724				
South Timbalier 52B (Arena Offshore)	ST52B	New Inst	all					
Eugene Island 338K (Arena Offshore)	EI338K	Redunda	ncy to EI-251A (EKE)					

NOTE: The FAA does not have remote maintenance monitoring capability for the telephone dial-up or VHF radio service. Please report outages/problems of

# **Community Awareness**

Rana Obeid, Federal Lead



### **Galliano Update**

- KGAO AWOS damage in Sept 2020 led to need to obtain an obsolete CPU
- Coordination assistance provided to expedite FAA Engineering approval of replacement CPU design
- Efforts continue to expedite system return to service



# **Summary**

Rana Obeid, Federal Lead

# **Strategic Analysis Recommendations**

		ADS-B			VHF		AWOS			
FY	Install	Remove	FY Total	Install	Remove	FY Total	Install	Remove	FY Total	
2022	2	0	12	3	2	10	8	6	30	
2023	1	1	12	1	0	11	4	0	34	
2024	1	1	12	1	0	12	3	4	33	
2025	1	1	12	1	0	13	4	3	34	
2026	1	1	12	1	1	13	2	3	33	

FY = FAA Fiscal Year (FY begins October 1)

#### **Traffic Count**

INSTRU	MENT F	LIGHT RU	JLE (IFR)	OFFSHOR	RE HEICOI	PTER OPE	RATIONS	5						Yr Total Helo	% IFR
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	HSAC	
2021	1931	1997	2298	2120	2140	2166	2040	2023	1720	1828	1881	2826	24,970		
2020	2438	2376	2654	1169	1172	1492	1693	1452	1700	2382	1810	1842	22,180	275,579	8%
2019	1942	2045	2063	1719	1960	1855	1968	2166	1787	2457	2040	2524	24,526	411,308	6%
2018	1469	2292	1658	1450	1695	1742	1879	1857	1876	2111	2032	1838	21,899	435,528	5%
2017	1860	1857	1953	1440	1523	1766	1334	1680	1513	2040	1637	2235	20,838	491,688	4%
2016	1929	1335	1833	2025	1869	1556	1345	1625	1438	1351	1500	2149	19,955	526,981	4%
2015	2831	2000	2447	2358	2072	1820	1664	1651	1853	2016	2362	2703	25,777	589,078	4%
2014	1894	2436	2017	2908	1862	2307	2018	1880	2369	1879	1888	3064	26,508	741,201	4%

# **Total IFR Offshore Helicopter Operations**



### **Summary Continued**

#### FAA Infrastructure Status

- As previously shown in our slide presentation, 2022 will be a very productive installation year! We will sustain / install:
  - 32 AWOS sites
  - 12 ADS-B sites
  - 11 VHF Comm sites

#### Industry Feedback and Support

 Explore all possibilities as an opportunity to increase safety in the Gulf of Mexico

#### **FAA Gulf of Mexico Sustainment Team**

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