

# Surveillance and Broadcast Services

## SBS Program Update

Presented to: Helicopter Safety Advisory Conference

By: Andrew Shutt, SBS Operations & Maintenance Lead

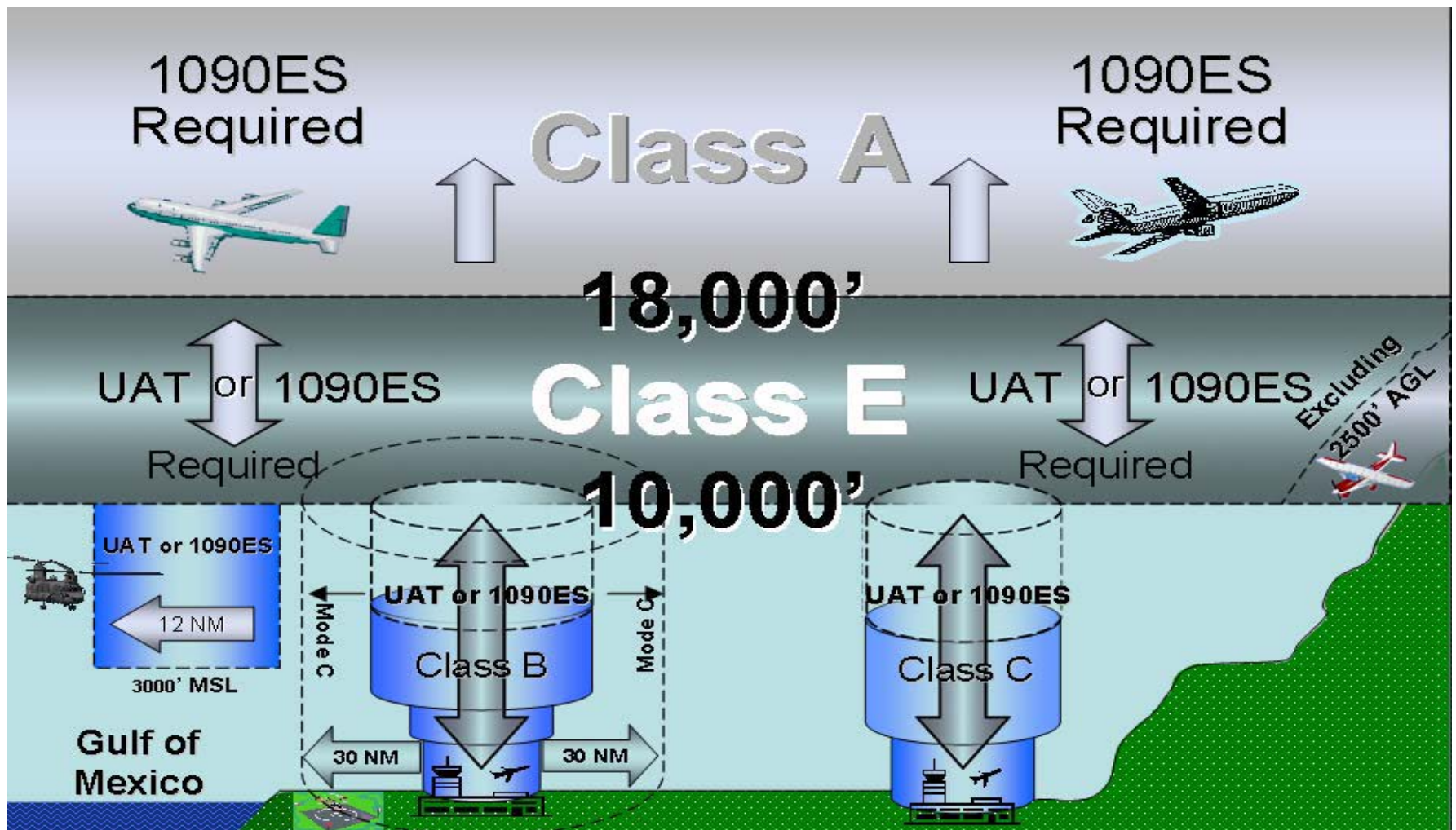
Date: October 20, 2016



Federal Aviation  
Administration



# Required ADS-B Airspace



# 1,168 Days Left to Equip

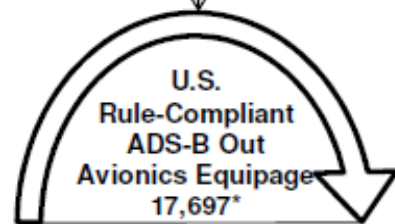
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- **ADS-B 'Out' Avionics Equipage Mandate – Jan 1, 2020**
  - Version 2, DO-260B (1090ES)
  - Version 2, DO-282B (978 MHz)
- **Thirteen (13) IFR capable helicopters currently operating in the Gulf still equipped with version 1, DO-260A avionics**
- **All IFR helicopter traffic in the GOM since July has been flown by ADS-B equipped aircraft.**



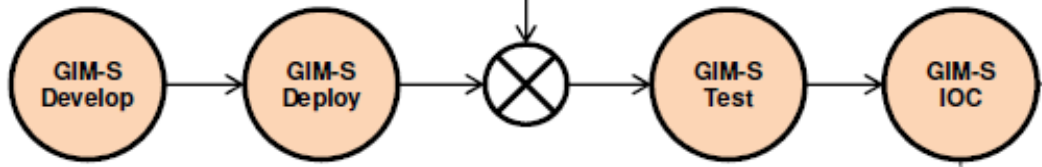
**Service Delivery Points for ATC Separation Services**

	FY10 – FY12	FY13	FY14	FY15	FY16	FY17	FY 18	FY19	Operational
En Route	6	4	12	2	N/A	N/A	N/A	N/A	24 of 24
Terminal	19	27	17	5	10 of 13	27	32	15	78 of 155
Surface (Advisory)	16	10	9	0	0	2	1	5	35 of 43
Oceanic	0	0	0	1	1	1	0	0	2 of 3



**Spacing Services**

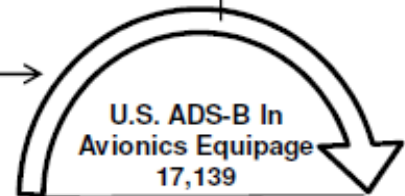
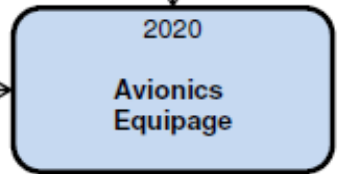
*Ground-Based Interval Mgmt - Spacing (GIM-S) (En Route only)*



*Flight Deck Based Interval Mgmt - Spacing (FIM-S)*

*In Trail Procedures (ITP)*

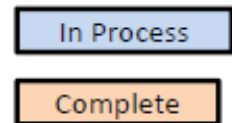
*Traffic Situation Awareness with Alerts (TSAA)*



**Pilot Advisory Services**

*TIS-B  
FIS-B  
ADS-R*

	FY14	FY15 – FY17	Total
Baseline Radio Station Installations (2008 – 2014)			Complete
Alaska Expansion Radio Station Installations			Complete
Service Expansion Radio Station Installations (ASSC and Gulf of Mexico) (2014 – 2017)	2	3 of 19	5 of 21



\*25,578 Rule Driven ADS-B Out aircraft have been detected by the FAA ADS-B network in the last year. International + US Rule Compliant ADS-B Out number is 19,331 aircraft.

# Local TRACON ADS-B Implementation Schedule

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- **New Orleans - operational**
- **Lafayette - operational**
- **Gulfport, MS - 10/19/16**
- **Mobile, AL - 12/5/17**
- **Lake Charles - 12/21/18**

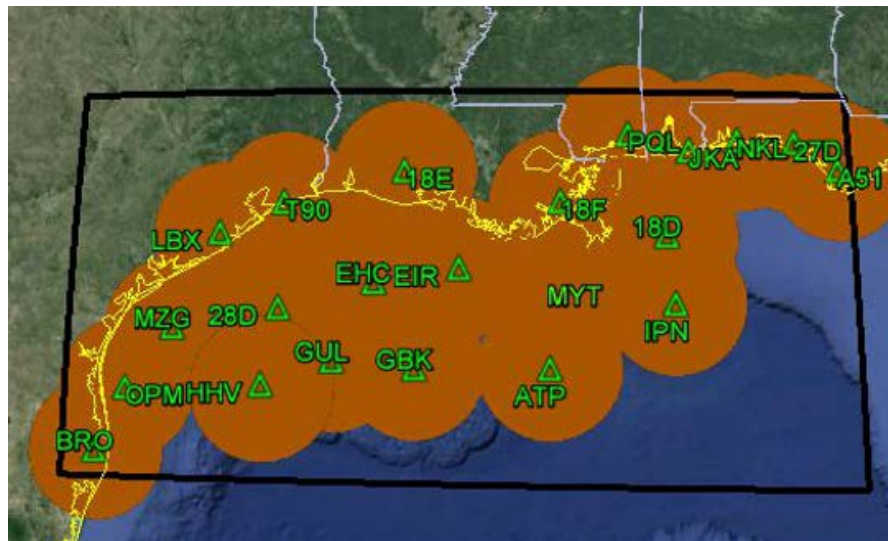


# Predicted ADS-B Coverage at 1,500' MSL (Nov 2016)



# ADS-B Coverage -- Original vs Predicted Laydown 1,500 FT MSL

- Coverage difference: 96%



Original (2010)



Nov 2016

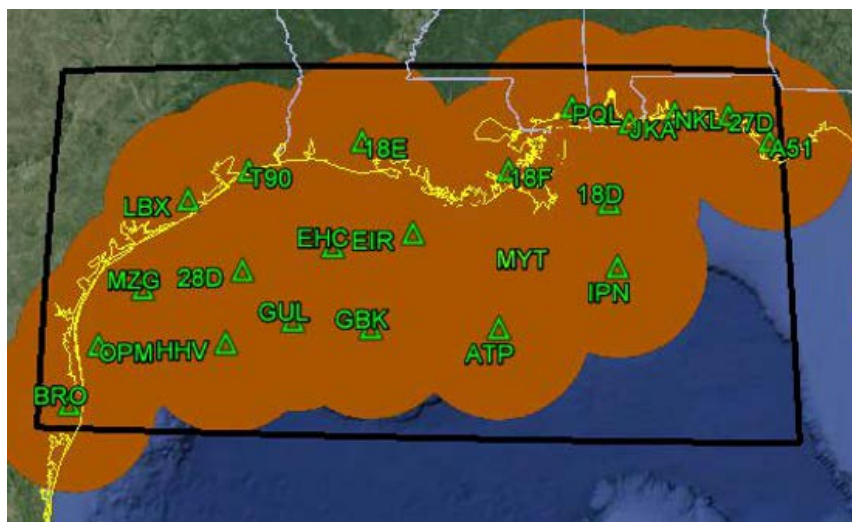
# Predicted ADS-B Coverage at 3,000' MSL (Nov 2016)





# ADS-B Coverage -- Original vs Predicted Laydown 3,000 FT MSL

- Coverage difference: 108%



Original (2010)



Nov 2016

# Predicted FAA AWOS Laydown (Nov 2016)





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