

Surveillance and Broadcast Services

Gulf of Mexico In-Service Management

Presented to: Helicopter Safety Advisory
Conference

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Federal Aviation
Administration



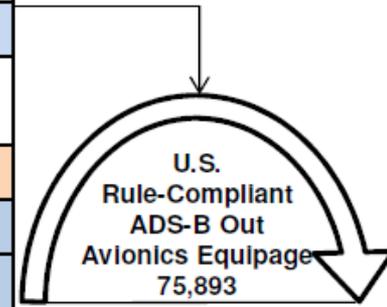
Federal Aviation
Administration

Agenda

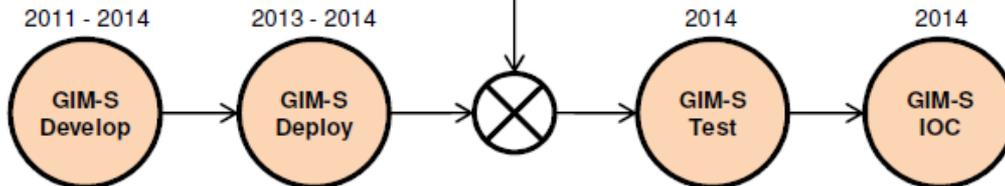
- **National ADS-B Program Update**
- **ADS-B 'Out' Rulemaking**
- **Coverage in the Gulf of Mexico**



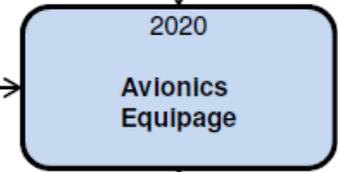
Service Delivery Points for ATC Separation Services										
	FY10 – FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Operational
En Route	6	4	12	2	N/A	N/A	N/A	N/A	N/A	24 of 24
Terminal	19	27	17	5	13	24	26	8 of 24	N/A	139 of 155
Surface (Advisory)	16	10	9	0	1	1	1	1 of 3	2	39 of 43
Oceanic	0	0	0	1	1	1	N/A	N/A	N/A	3 of 3



ATC 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)



TIS-B
FIS-B
ADS-R

Pilot Advisory Services			
	FY14-FY18	FY19	Total
Baseline Deployment (2008 – 2014)			Complete
Alaska Expansion Deployment			Complete
Service Expansion Deployment (ASSC and Gulf of Mexico* Service Volumes)	5	3 of 4	8 of 9

In Process

Complete

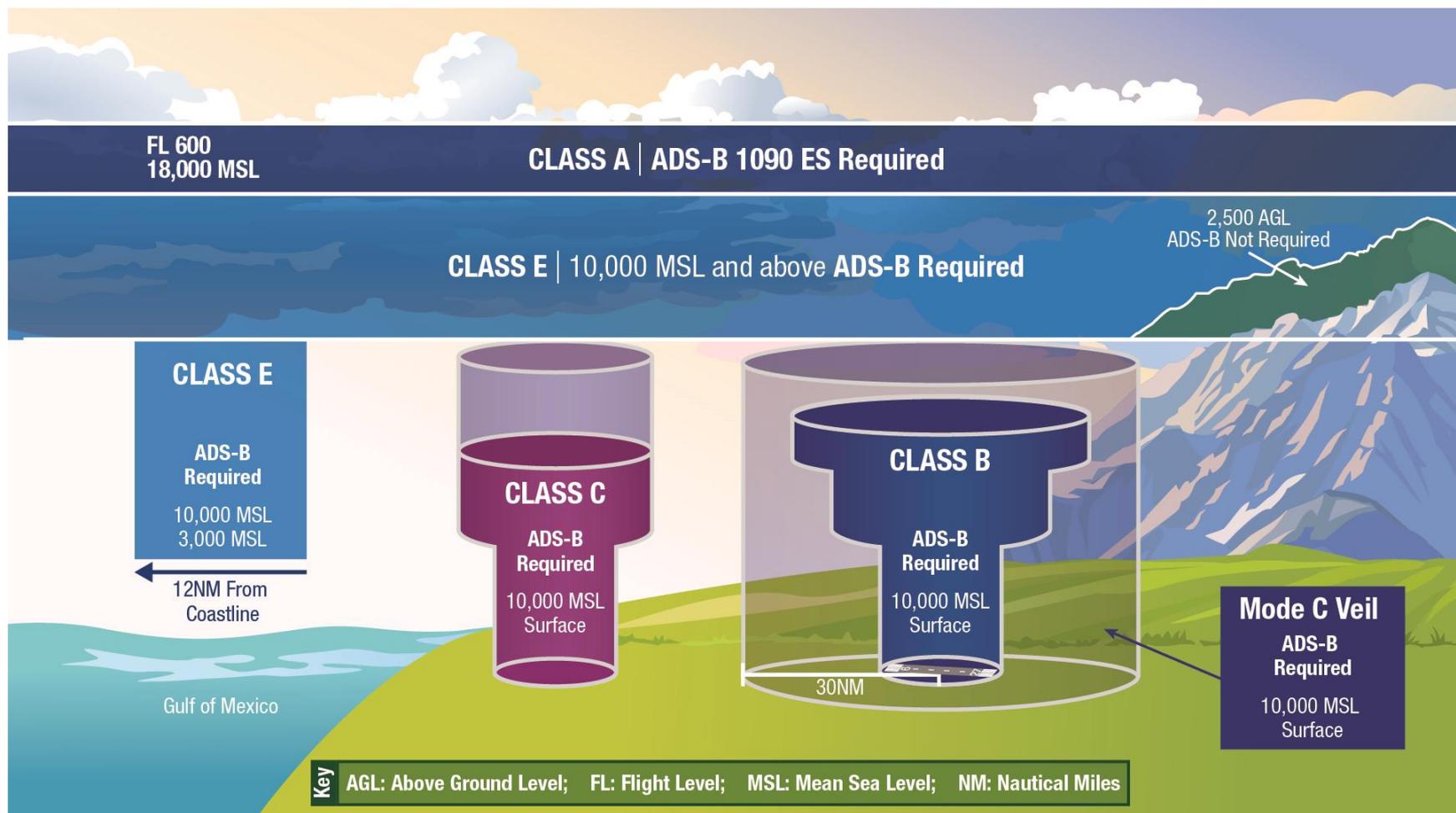
*Pilot services not provided in Mexican Service Volumes

ADS-B 'Out' Rulemaking

January 1, 2020, the FAA Final Rule for ADS-B 'Out' equipage

- **Published on May 27, 2010**
- **Applies to aircraft that desire to access certain airspace (14 CFR 91.225)**
- **Mandates performance requirements for ADS-B 'out' avionics that fly in certain airspace (14 CFR 91.227)**
 - Does not mandate ADS-B 'In'
- **Applies to all U.S. airspace that requires a transponder today**

Required ADS-B Airspace



Visit <https://www.faa.gov/nextgen/equipadsb/research/airspace/>

Federal Register Notice April 1, 2019

Statement of Policy for Authorizations to Operators of Aircraft That are Not Equipped With Automatic Dependent Surveillance-Broadcast (ADS-B) Out

- This action explains the FAA's policy for issuing ATC authorizations to persons seeking to operate aircraft that are not equipped with ADS-B Out equipment in ADS-B airspace after January 1, 2020
- Summary:
 - After January 1, 2020, unless otherwise authorized by FAA, all aircraft operating in rule airspace must be equipped with ADS-B Out equipment
 - Non equipped may request authorization from FAA to operate in ADS-B airspace

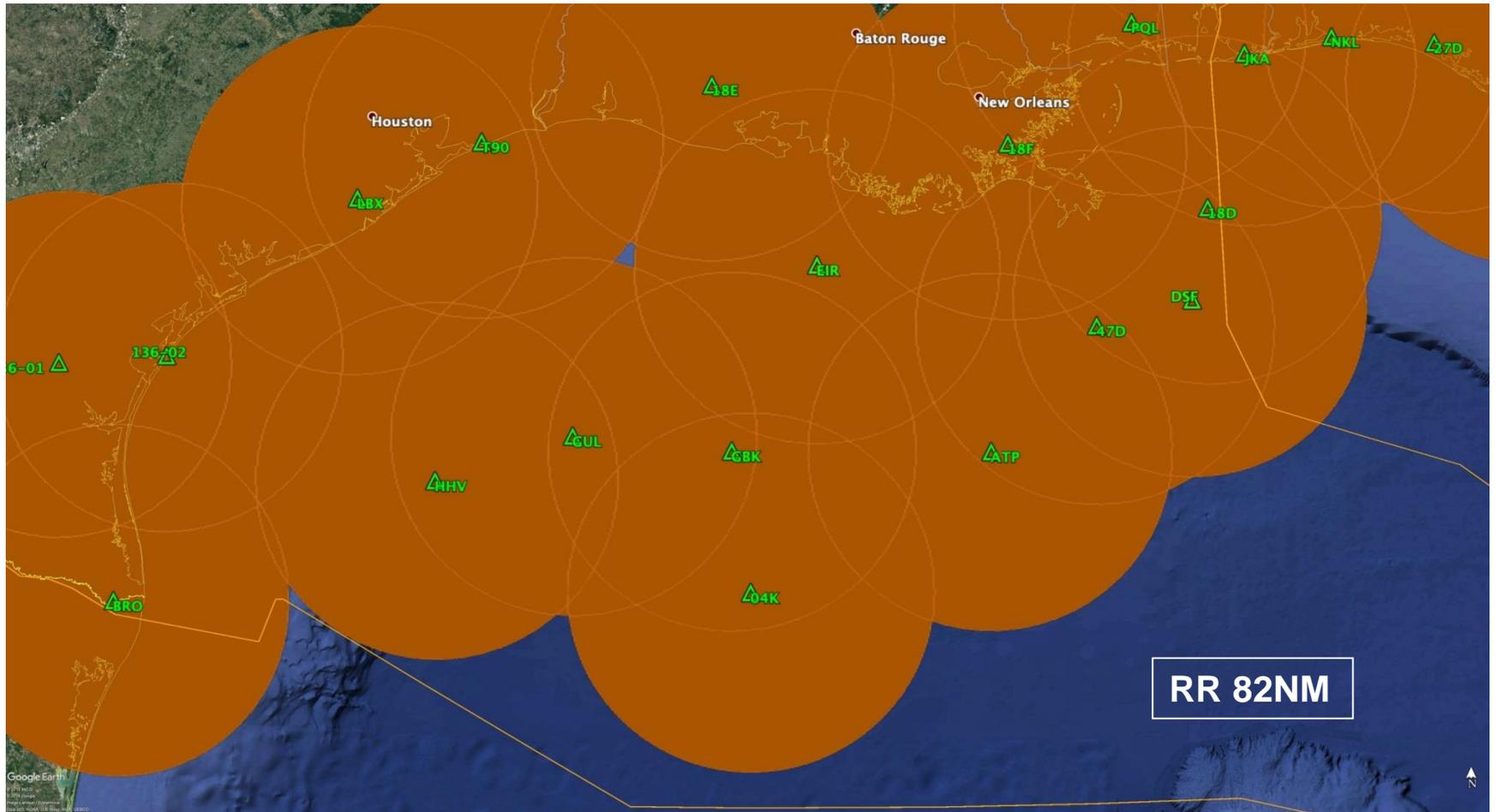
Federal Register Notice April 1, 2019 (Cont'd)

- **Non- ADS–B Out equipment must obtain a preflight authorization – request will be evaluated on a case-by-case basis**
 - **The FAA will be very unlikely to issue routine and regular authorizations**
 - **Specific mechanisms for authorizations are in the development process**
- <https://www.federalregister.gov/documents/2019/04/01/2019-06184/statement-of-policy-for-authorizations-to-operators-of-aircraft-that-are-not-equipped-with-automatic>

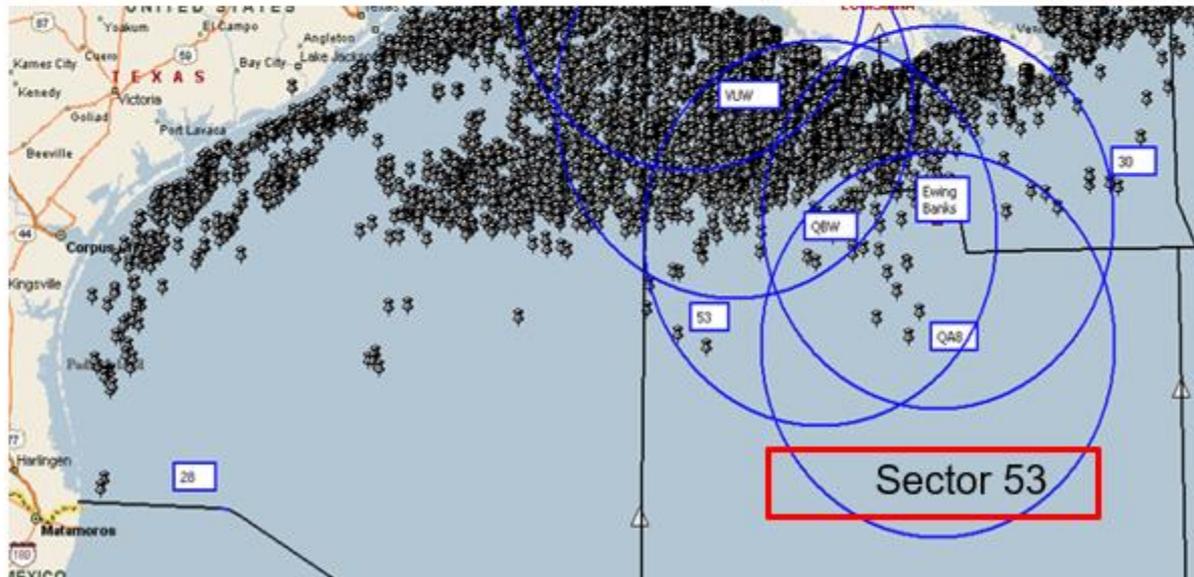
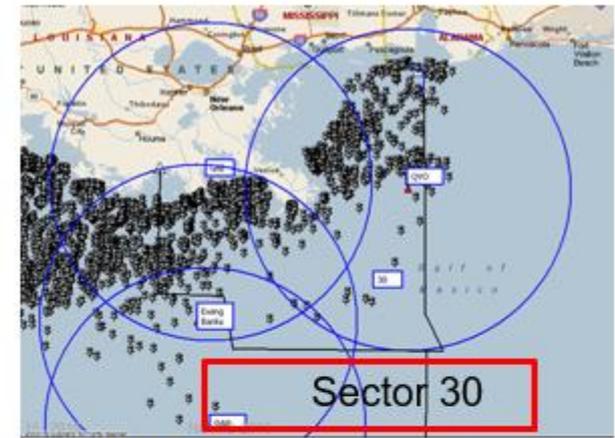
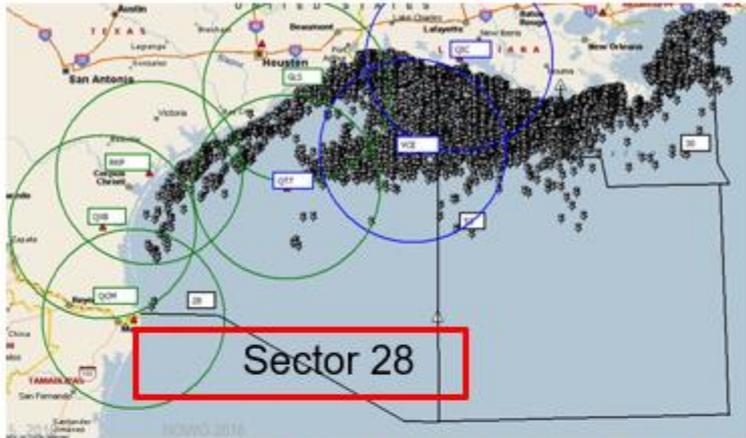
ADS-B Coverage in the Gulf

- **Link v1 ADS-B (DO-260A) equipped aircraft under FAA Letter of Authorization expires 31 Dec 2019**
- **Automation systems will be updated such that they will not process Link v1**
 - Aircraft with Link v1 will not be seen by ATC on the automation platforms
- **Link v2 ADS-B (DO-260B or DO-282) will be required within 12 nautical miles from the coastline 3,000'-10,000' MSL**
- **Beyond 12NM, even though not rule airspace, without ADS-B Link v2, Air Traffic Control will not see aircraft--radar services limited or not available either**

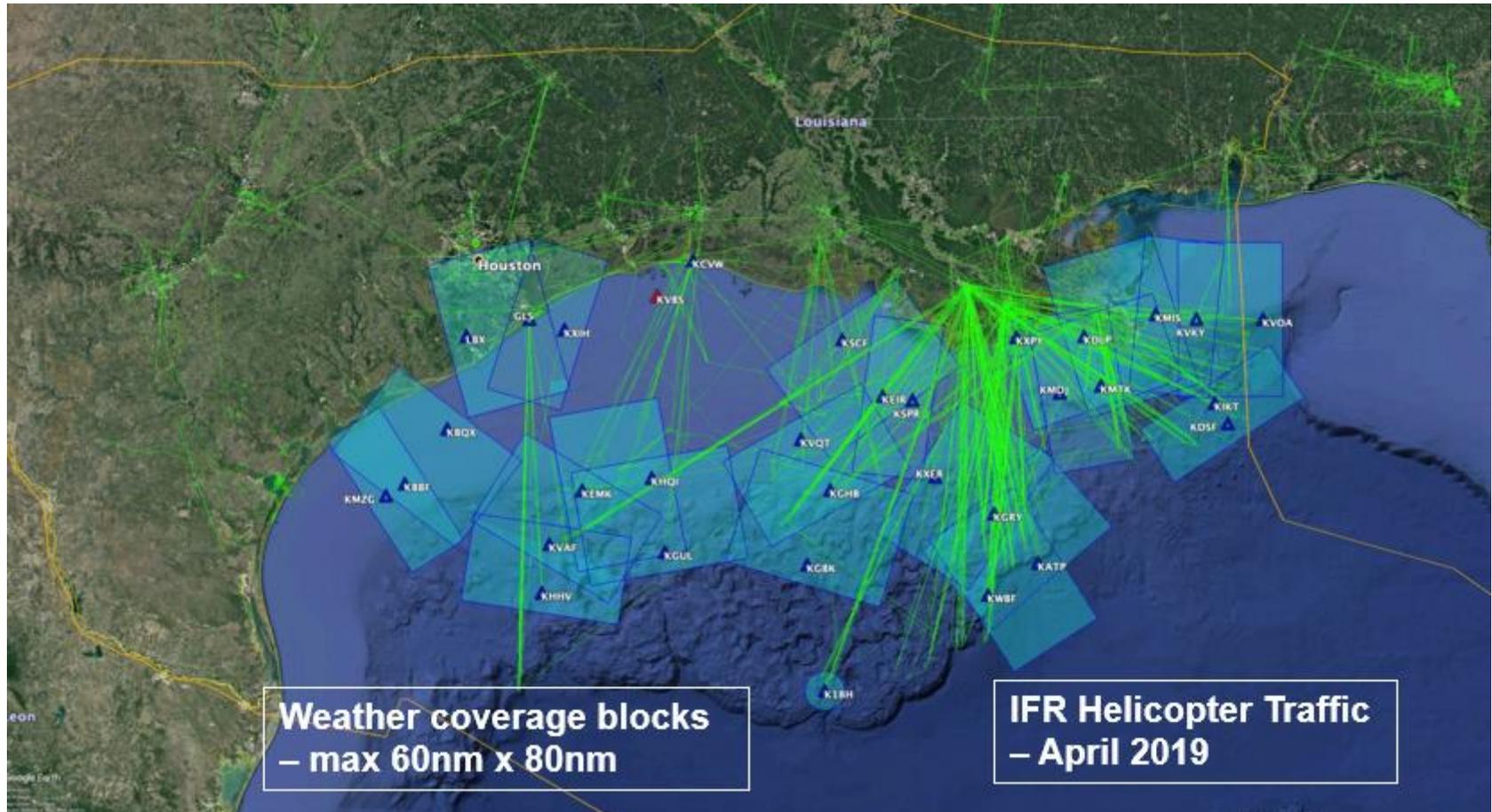
ADS-B Coverage in the Gulf – 3,000' MSL



VHF Comm Coverage – 3,000' MSL



FAA AWOS Coverage with IFR Tracks



Gulf AWOS Weather Blocks

- **On 11/11/2018, the NWS granted permanent approval to use weather boxes for offshore IFR destination weather provided “no changes were made to the current set of boxes”**
 - *“Change proposals for additional boxes or adjustments to the current boxes will require a history of consistent performance”*
 - *The Gulf weather infrastructure is in a constant state of change due to AWOS decommissionings, long term platform shut-ins, and commissionings*
- **NWS, Baton Rouge FSDO, and ADS-B Program Office have worked together to develop guidance for new weather boxes**
- **On 5/1/2019, NWS issued formal guidance to FAA that allows provisional approval for new weather boxes**

Gulf AWOS Weather Blocks

- **Summary of latest NWS memo dated 5/1/2019**
 - Provisional approval period is a minimum of 12 months after the date of AWOS commissioning
 - If there's no trend of inaccurate weather reports, the provisional period will transition to permanent approval
 - NWS, FAA, and the operators will schedule periodic reviews of any discrepancy reports and status of weather stations
- **The FAA will furnish AWOS status reports, coverage maps, and kml / kmz coverage files to NWS and helicopter operators as changes occur in the infrastructure and at least semi-annually**



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Backup



