

# ADS-B Regulatory Status

Presented to: CAAC ADS-B Seminar

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Federal Aviation  
Administration



# Overview

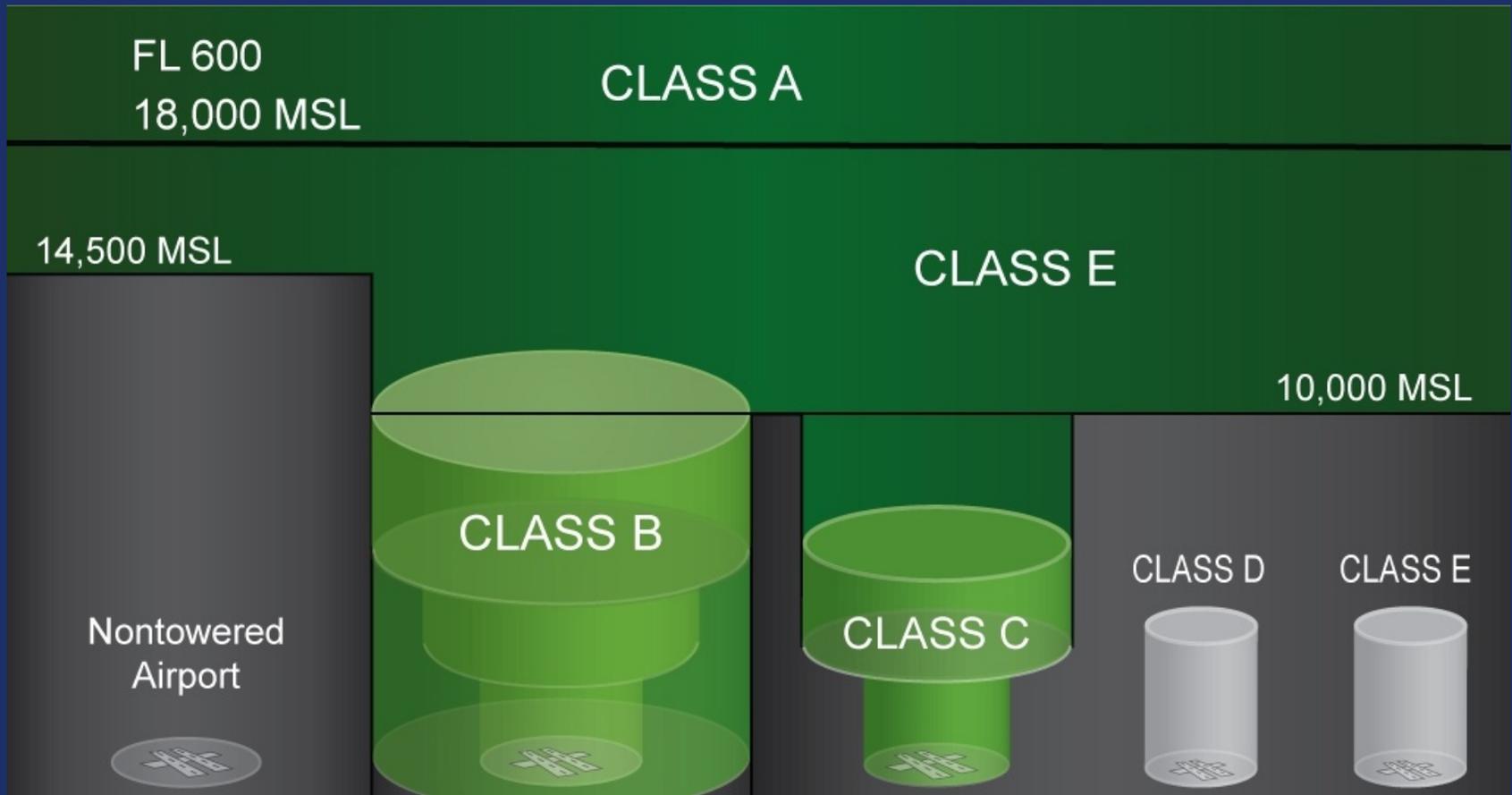
## May 27, 2010 FAA Published: Final Rule for ADS-B Out Equipage

<http://edocket.access.gpo.gov/2010/pdf/2010-12645.pdf>

- **Rule mandates performance requirements for ADS-B avionics in certain airspace**
- **Final Rule establishes 2020 by which all aircraft flying in designated airspace be equipped with ADS-B Out avionics**
- **FAA now deploying ADS-B**
  - Broadcast (Essential) Services deployment began in 2008
  - Air Traffic Separation (Critical) Services key test sites complete, full scale deployment begins September 2010



# Required ADS-B Airspace (In Green)



Note: 1090MHz ES link is required above FL180

# Links for ADS-B

- **Two frequencies allowed**
  - 1090MHz and 978MHz (UAT)
  - UAT provides additional weather and flight information services for general aviation aircraft users (safety enhancements)
- **Aircraft can broadcast out on one frequency and receive on another**



# Guidance Documents Available

- **Technical Service Orders (TSOs) for ADS-B avionics were approved in December 2009 (RTCA)**
  - Provides standards for avionics (978MHz & 1090MHz)
- **Advisory Circular AC 20-165 approved and released with the Final Rule in May 2010**
  - Provides installation guidance for ADS-B out systems  
[http://www.faa.gov/documentLibrary/media/Advisory\\_Circular/AC%2020-165.pdf](http://www.faa.gov/documentLibrary/media/Advisory_Circular/AC%2020-165.pdf)

# FAA United States Roll-Out is Underway

## Radio Stations Coverage – as of May 2006

Data from 120 radios collecting data

237 sites now constructed (229 in CONUS; 8 in AK)

- 40 radio sites currently operating (Florida, Gulf of Mexico, Louisville, Philadelphia and Juneau)

86 sites are in progress

323 radios planned by September 2010

# Detailed Information Available

**More information of the Final Rule and the FAA Program to be presented by FAA experts from the ADS-B program office at the ICAO meeting of the Comm/Nav/Surveillance & Meteorology Sub Group of APANPIRG**

- FAA plans and approach for deployment of services
- FAA research and safety work that supported deployment
- New applications under development for air transport and general aviation users

**Jakarta, Indonesia - July 16-19, 2010**

