# Metroplex

An Update on Charlotte Airspace Modernization

Phase 3

July 13, 2016



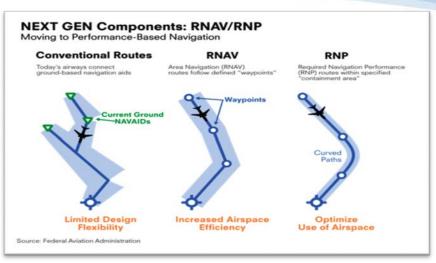


# Why We Must Modernize

















### **Top 10 Airports in the United States**

- 1. Atlanta
- 2. Chicago
- 3. Dallas/Ft Worth
- 4. Los Angeles
- 5. Charlotte

- 6. Denver
- 7. Las Vegas
- 8. Houston
- 9. New York JFK
- 10. Phoenix



### Challenges of the Charlotte Airspace

- Charlotte is the 5<sup>th</sup> busiest airport in the United States.
- It is adjacent to Atlanta, the busiest airport in the world.
- Traffic moving along the East Coast represents some of the greatest areas of congestion and potential delay in the system.



### The Process

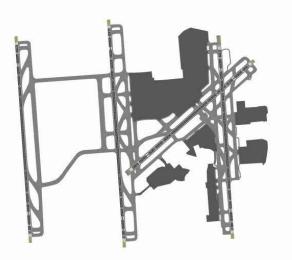
- Metroplex Implemented over Phases
  - Phase 1 implemented on October 15, 2015
  - Phase 2 implemented on May 31, 2016
  - Phase 3 will occur July 21, 2016



#### NORTH FLOW – 45% OF THE TIME

# Why do we fly this way?





CLT

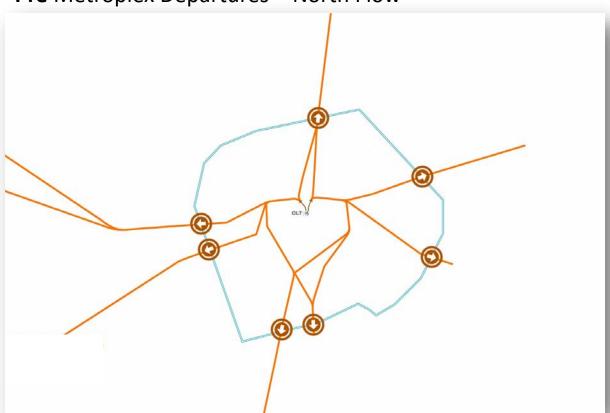


VIDEO 6

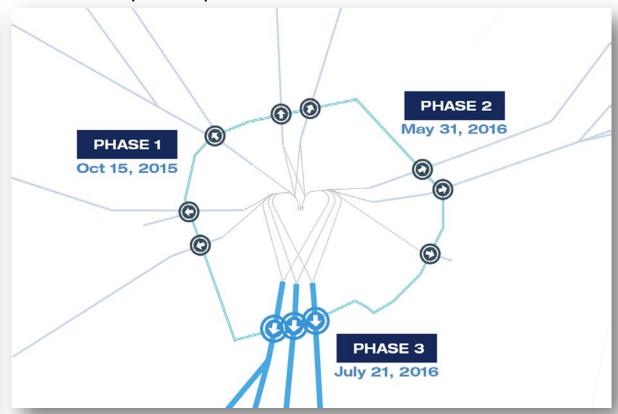
# What are the Changes

**Departure SIDs** 

**Pre** Metroplex Departures – North Flow



**Post** Metroplex Departures – North Flow

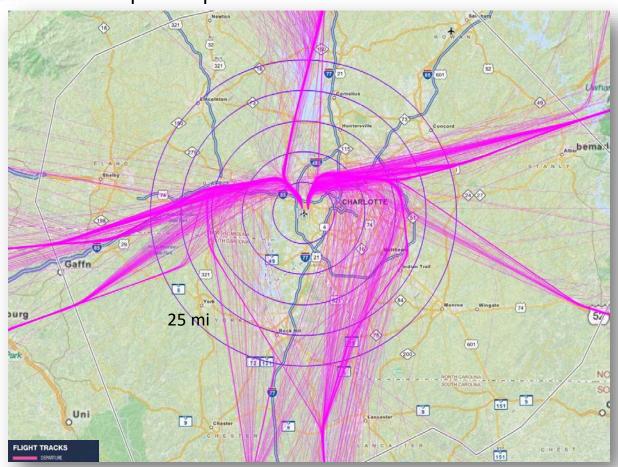




### **Departures out of the Airspace**

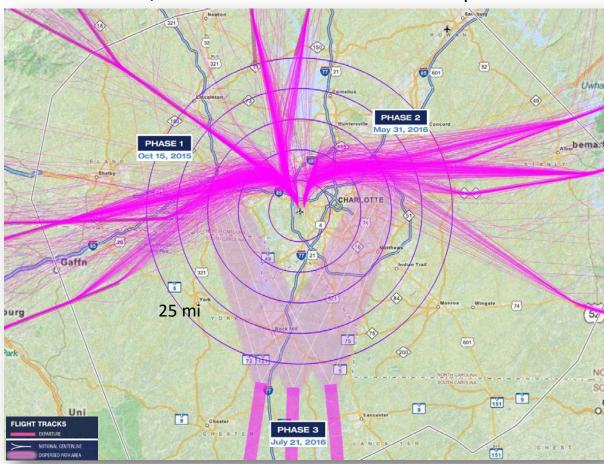
**Departure SIDs (Slide 1)** 

**Pre** - Metroplex Departures



Jet radar tracks prior to Oct 15, 2015 – Pre Metroplex

**Post** - Phase 1, Phase 2 and Future Phase 3 Departures



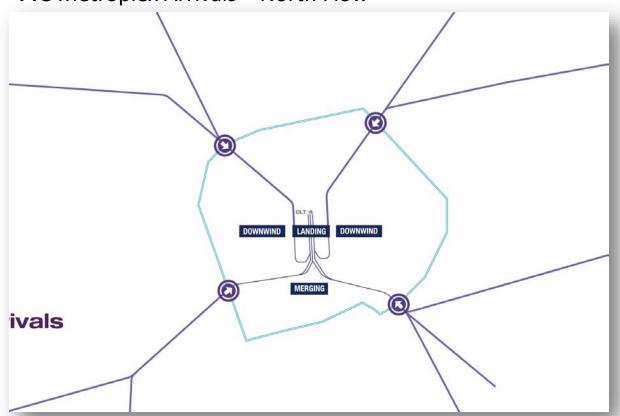
Jet radar tracks after May 30, 2016 – New Phase 1 & 2 tracks only



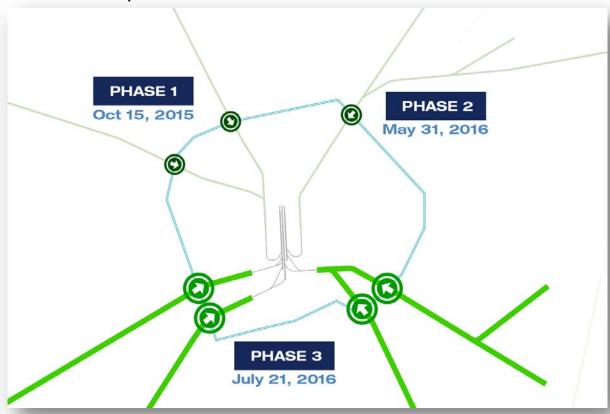
### What are the Changes

**Arrivals STARs** 

**Pre** Metroplex Arrivals – North Flow



**Post** Metroplex Arrivals – North Flow

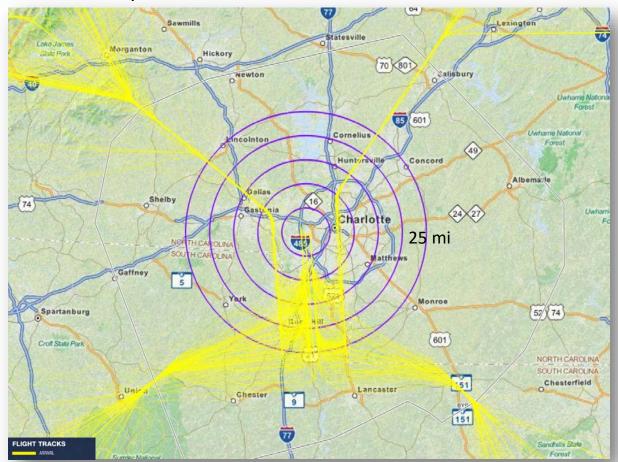




### **Arrivals into the Airspace**

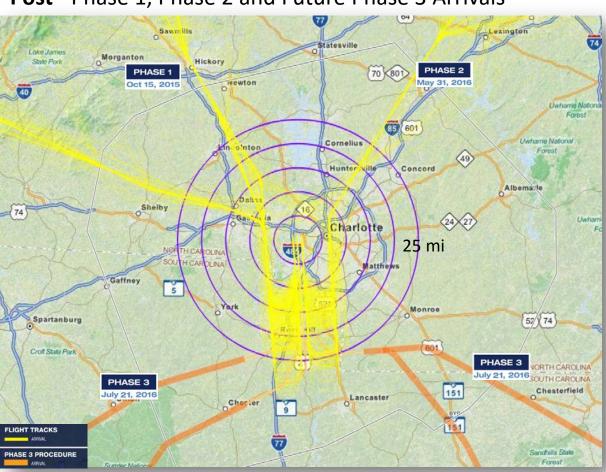
Arrival STARs (Slide 1)

#### **Pre** - Metroplex Arrivals



Jet radar tracks prior to Oct 15, 2015 – Pre Metroplex

**Post** - Phase 1, Phase 2 and Future Phase 3 Arrivals



Jet radar tracks after May 30, 2016 – New Phase 1 & 2 tracks only

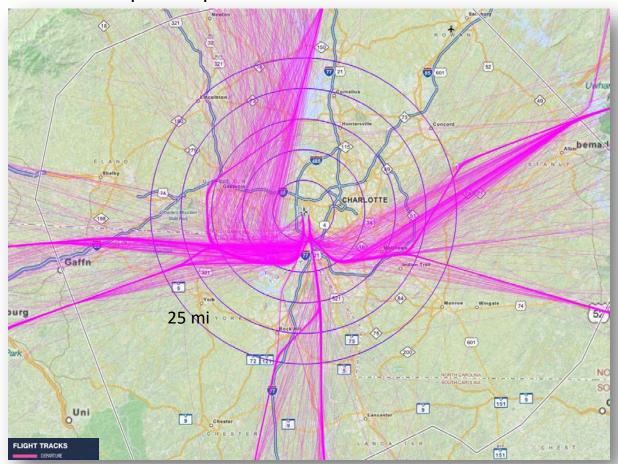


#### **SOUTH FLOW**

### Departures out of the Airspace

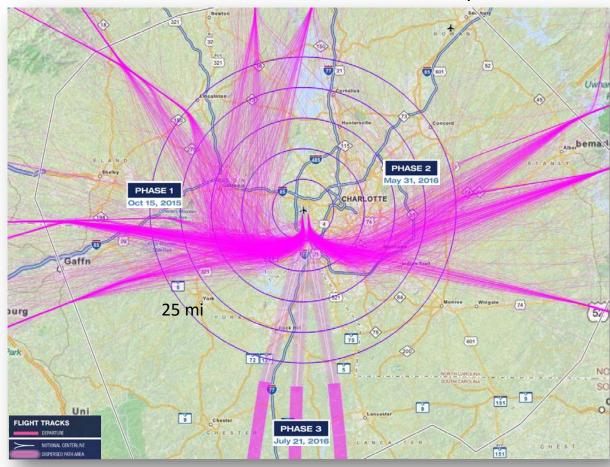
**Departure SIDs (Slide 1)** 

**Pre** - Metroplex Departures



Jet radar tracks prior to Oct 15, 2015 – Pre Metroplex

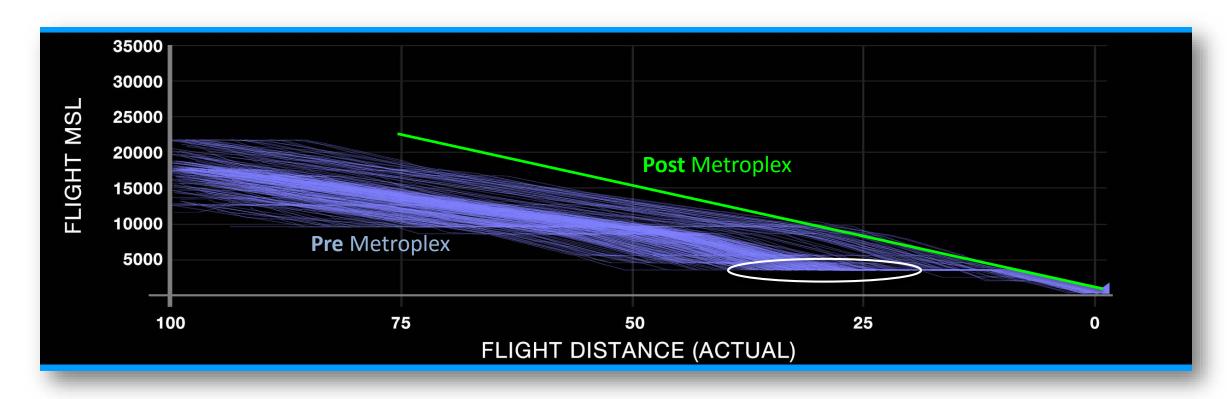
Post - Phase 1, Phase 2 and Future Phase 3 Departures



Jet radar tracks after May 30, 2016 – New Phase 1 & 2 tracks only



### **Increased Altitudes**



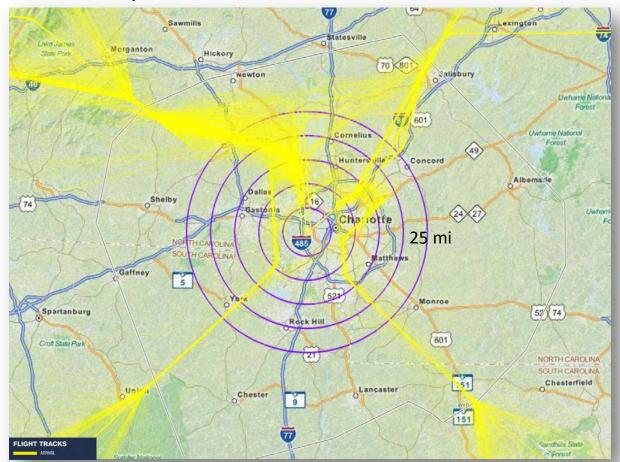


#### **SOUTH FLOW**

### **Arrivals into the Airspace**

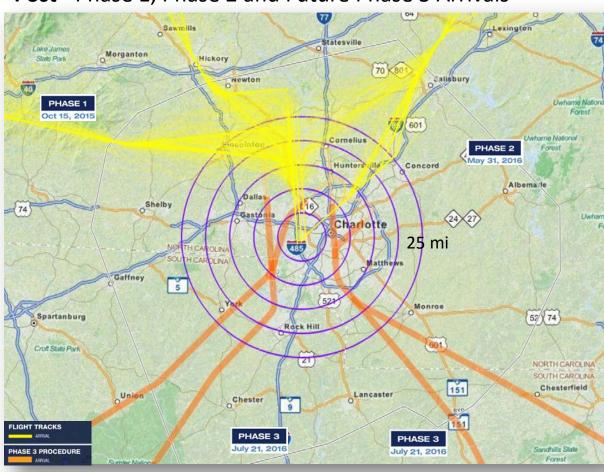
Arrival STARs (Slide 1)

#### **Pre** - Metroplex Arrivals



Jet radar tracks prior to Oct 15, 2015 – Pre Metroplex

**Post** - Phase 1, Phase 2 and Future Phase 3 Arrivals



Jet radar tracks after May 30, 2016 – New Phase 1 & 2 tracks only



### **Our Commitments**

- To partner with our local airports and aviation teams to adhere to established noise abatement policies.
- To update the community on changes the Metroplex project is making to the airspace.
- To make the images from this presentation available on the web and in other mobile applications.
  - www.faa.gov/go/charlotte/



# Metroplex

Thank you!

