Metroplex

An Update on Charlotte Airspace Modernization

May 19, 2016



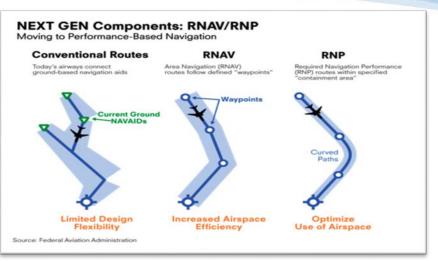


Why We Must Modernize

















Top 10 Airports in the United States

- 1. Atlanta
- 2. Chicago
- 3. Dallas/Ft Worth
- 4. Los Angles
- 5. Denver

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



Challenges of the Charlotte Airspace

- Charlotte is the 6th busiest airport in the United States.
- It is adjacent to the busiest airport in the world in Atlanta.
- Traffic moving along the east cost represents some of the greatest areas of congestion and potential delay in the system.



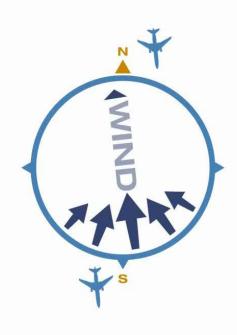
The Process

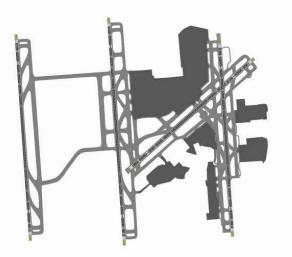
- Metroplex Implemented over Phases
 - Phase 1 implement in October 15, 2015
 - Phase 2 will occur May 31, 2016
 - Phase 3 will occur Summer 2016



SOUTH FLOW – 55% OF THE TIME

Why do we fly this way?





CLT

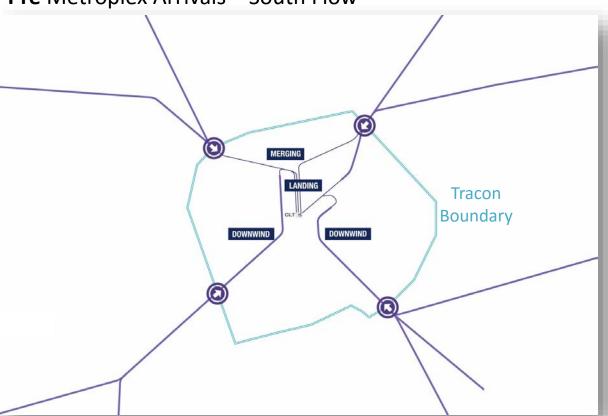


VIDEO 6

How is it being Improved

Arrivals STARs

Pre Metroplex Arrivals – South Flow

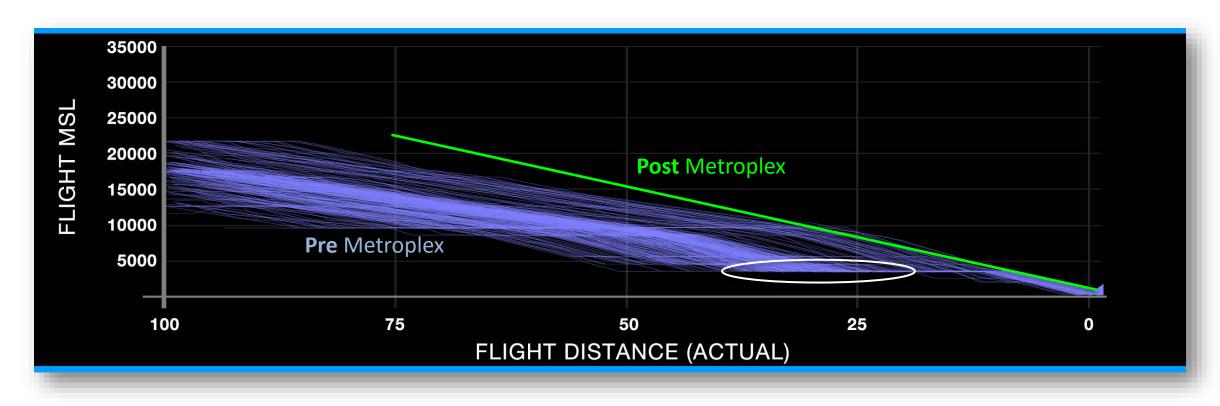


Post Metroplex Arrivals – South Flow





Increased Altitudes



Arrivals into the Airspace

Arrival STARs (Slide 1)

Pre Metroplex Arrivals



Jet Radar Tracks Prior to Oct 15, 2015 Phase 1 – All Paths

Post Metroplex Arrivals



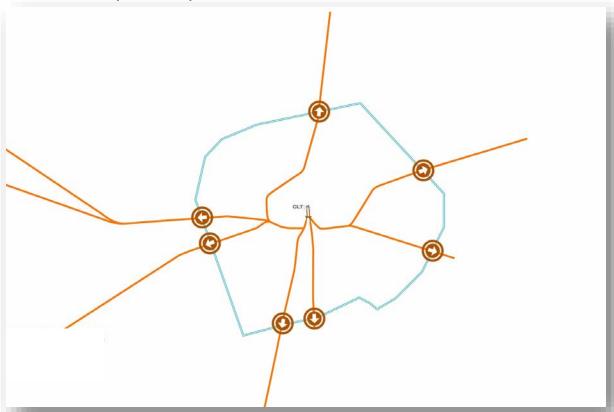
Jet Radar Tracks After Oct 15, 2015 Phase 1 – New Phase 1 Paths Only



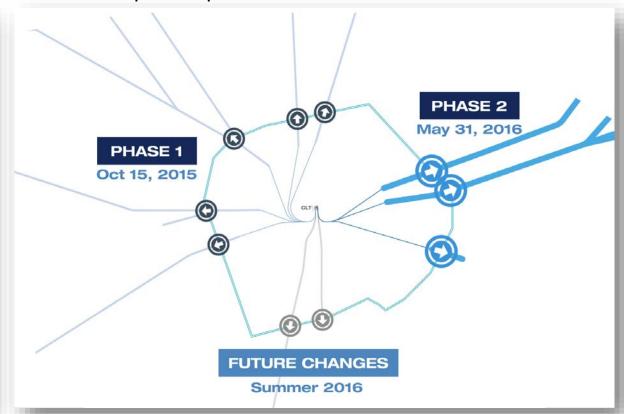
How is it being Improved

Departure SIDs

Pre Metroplex Departures – South Flow



Post Metroplex Departures – South Flow





Increased Dispersion

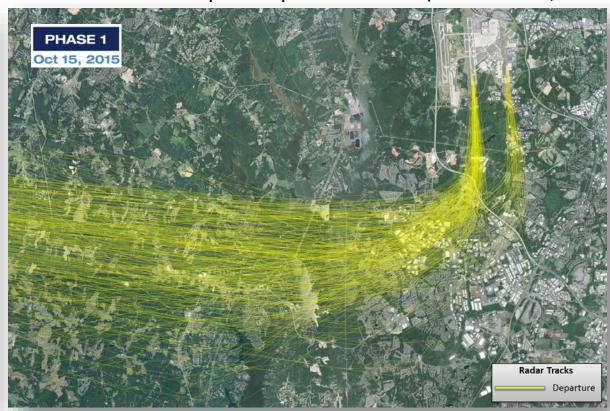
Departure SIDs

Pre Metroplex Departure Tracks (Before Oct 15, 2015)



Concentrated Path (RNAV and Radar Vector)

Post Phase 1 Metroplex Departure Tracks (After Oct 15, 2015)



Dispersed Path (Radar Vector)



From the Ground Up

Departure SIDs (Slide 2)

Indian Trail

Pre Radar Tracks

Pre Metroplex Departures – South Flow

274

321 CHARLOTTE

Post Metroplex Departures – South Flow



Jet Radar Tracks Prior to Oct 15, 2015 Phase 1 – All Paths

Jet Radar Tracks After Oct 15, 2015 Phase 1 – New Phase 1 Paths Only





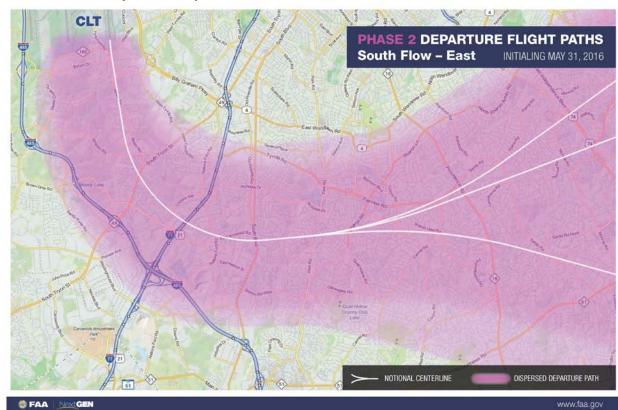
From the Ground Up

Departure SIDs (Slide 3)

Pre Metroplex Departures – South Flow



Post Metroplex Departures – South Flow

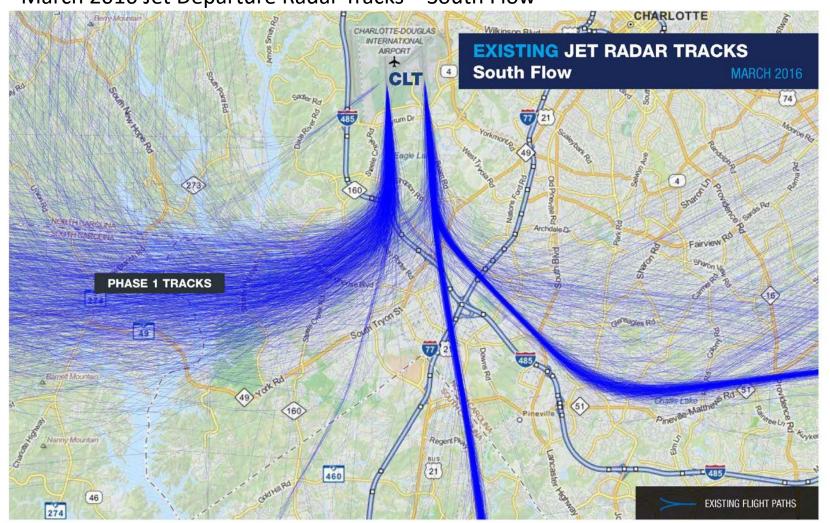




From the Ground Up

Departure SIDs (Slide 3)

March 2016 Jet Departure Radar Tracks – South Flow

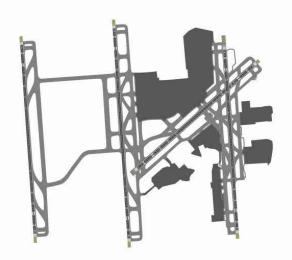




NORTH FLOW – 45% OF THE TIME

Why do we fly this way?





CLT

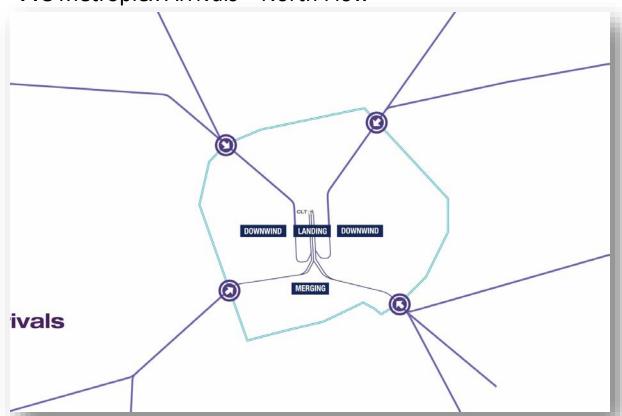


VIDEO 17

How is it being Improved

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 Phase 1 – All Paths

Post Metroplex Arrivals



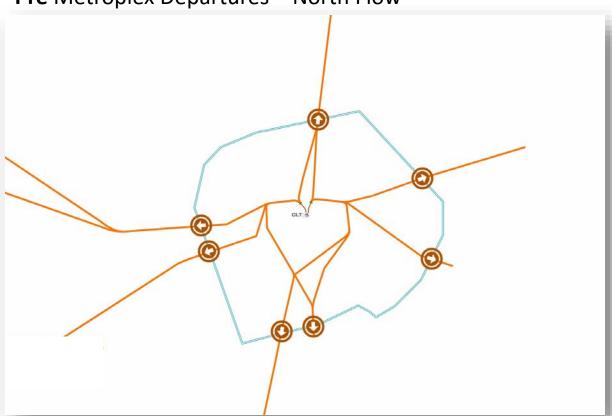
Jet Radar Tracks After Oct 15, 2015 Phase 1 – New Phase 1 Paths Only



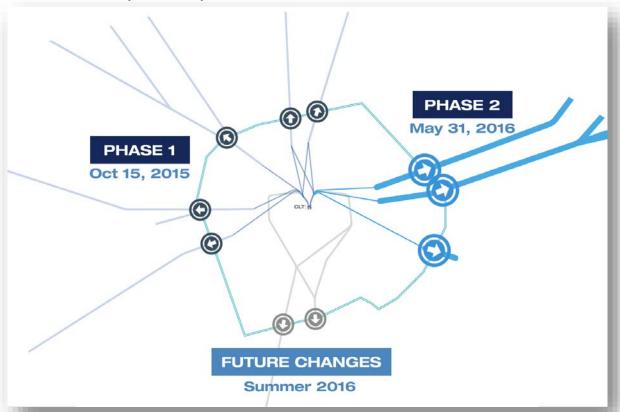
How is it being Improved

Departure SIDs

Pre Metroplex Departures – North Flow



Post Metroplex Departures – North Flow



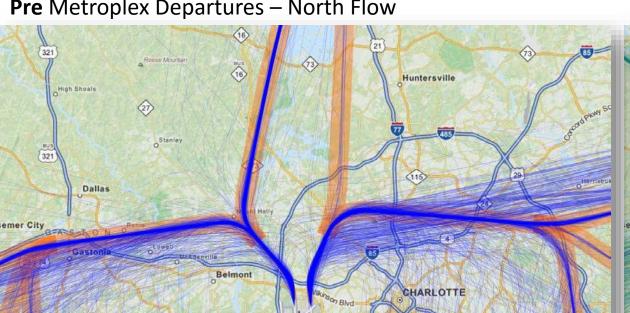


From the Ground Up

Departure SIDs (Slide 1)

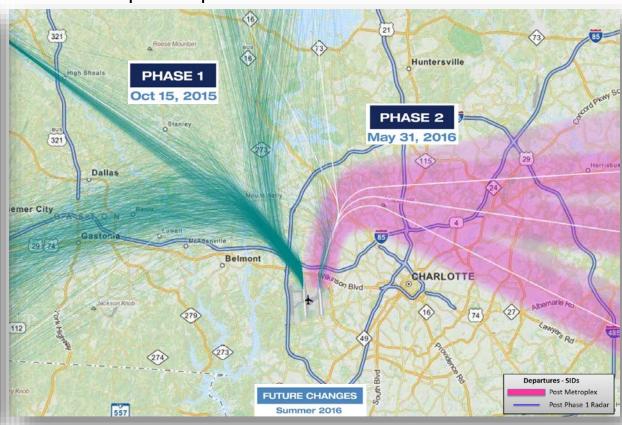
Pre Radar Tracks

Pre Metroplex Departures – North Flow



Jet Radar Tracks Prior to Oct 15, 2015 Phase 1 – All Paths

Post Metroplex Departures – North Flow



Jet Radar Tracks After Oct 15, 2015 Phase 1 – New Phase 1 Paths Only



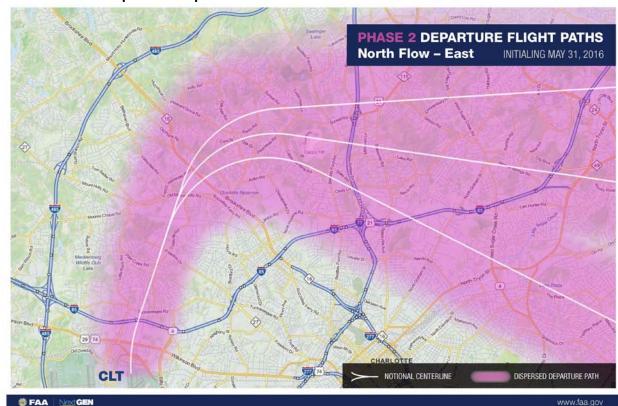
From the Ground Up

Departure SIDs (Slide 3)

Pre Metroplex Departures – North Flow



Post Metroplex Departures – North Flow





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.



Metroplex

Thank you!

