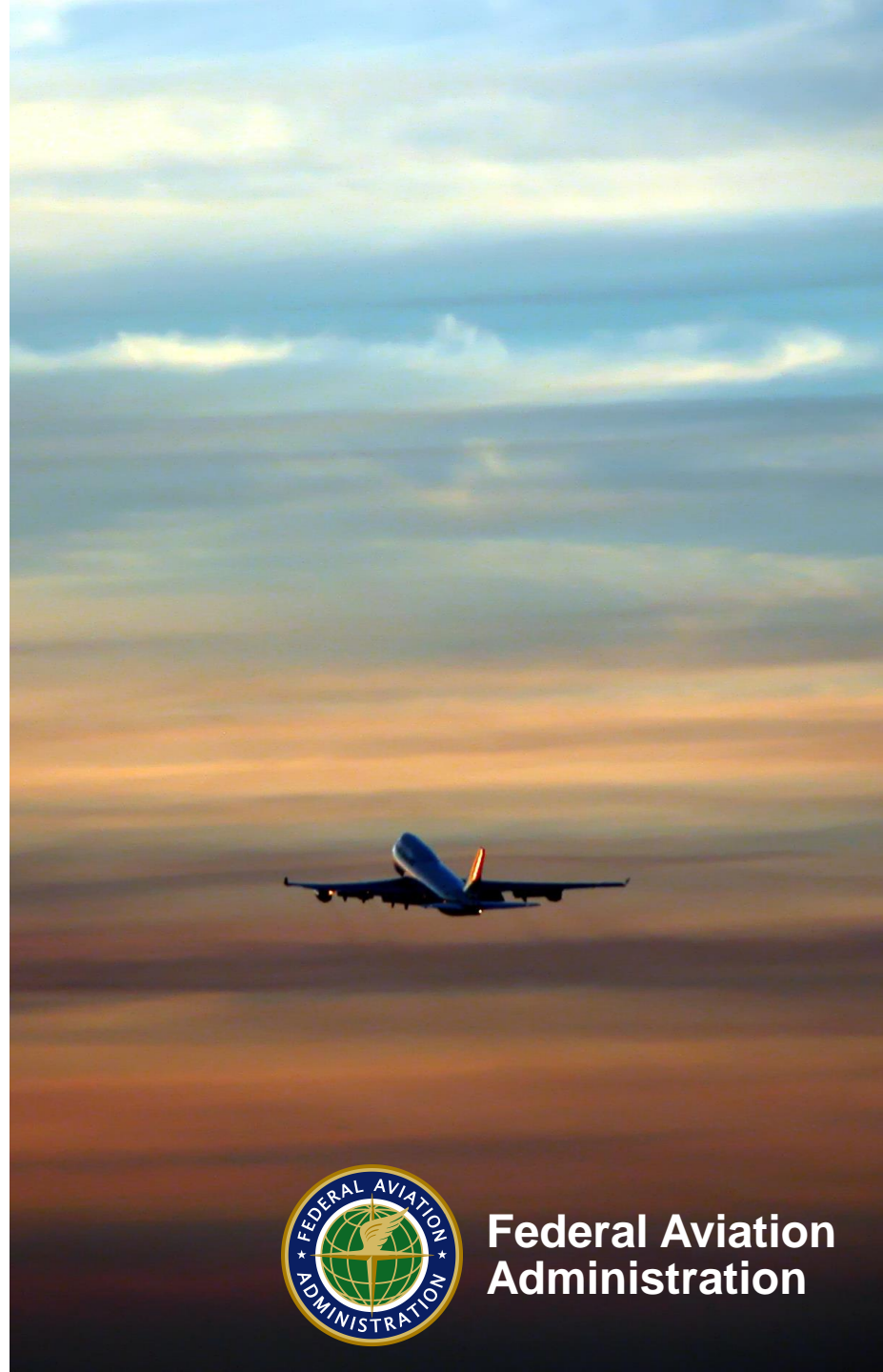# FAA Updates to BWI Roundtable
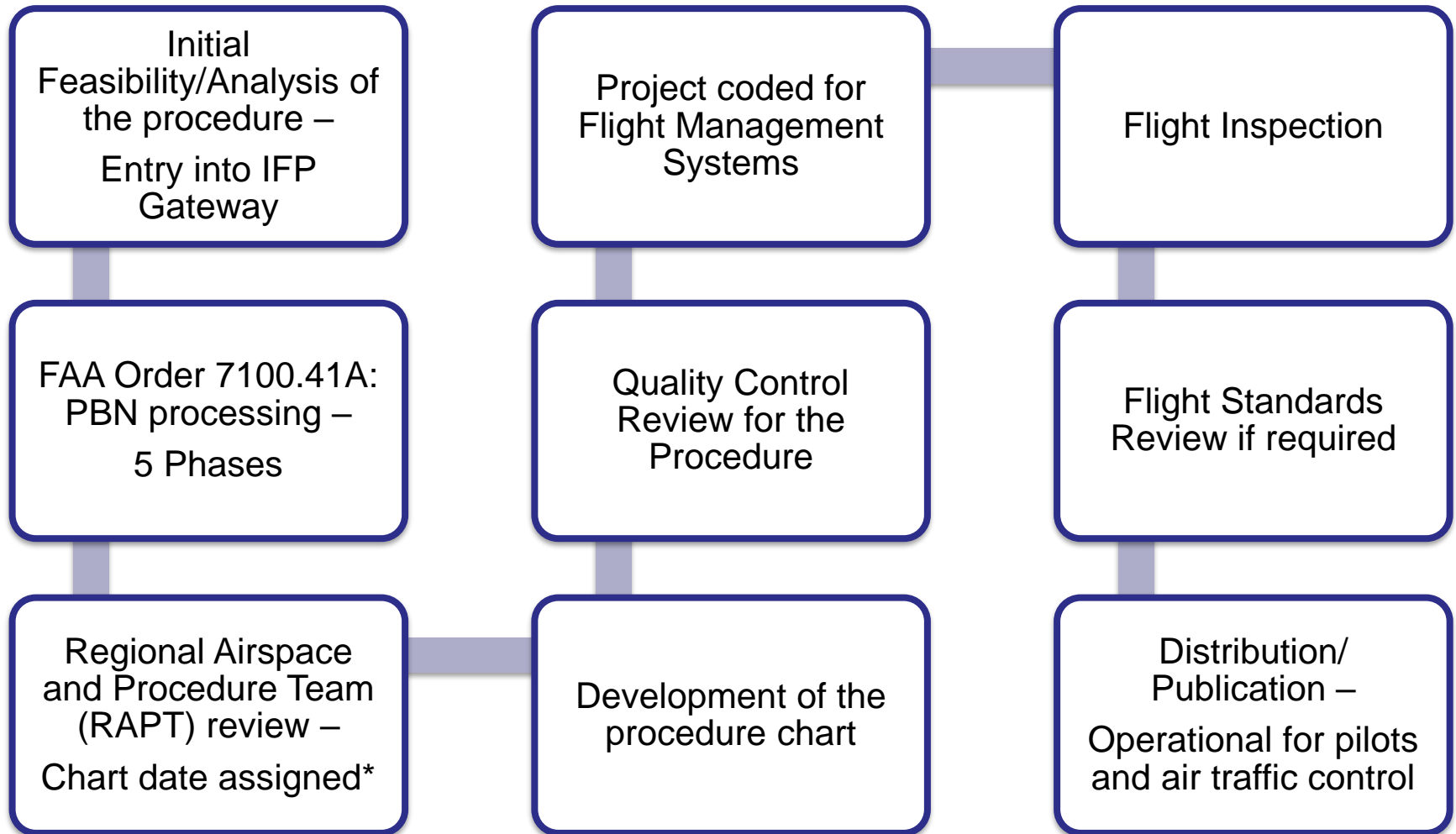
May 16, 2017

Federal Aviation Administration

FAA Actions/IOUs

- Written response to March Roundtable recommendation
- Continued dialogue and analysis of current and former flight tracks and altitudes focused on Runway 28 departures and Runway 33L arrivals
- Use more data from a longer period of time vs a single day
- Show procedures and tracks further out from the airport
- Show big picture of where procedures and tracks intersect
- Show altitude information for current and former procedures
- Identify short and long term possibilities to address noise concerns
- Create a plan to make changes
- Provide comments from October 2017 workshop
- Provide the Post-Implementation Report for DC Metroplex
- Provide web address for DC Metroplex EA
- Explain the process for changing an Instrument Flight Procedure

Instrument Flight Procedure Process

Initial Feasibility/Analysis of the procedure – Entry into IFP Gateway	Project coded for Flight Management Systems	Flight Inspection
FAA Order 7100.41A: PBN processing – 5 Phases	Quality Control Review for the Procedure	Flight Standards Review if required
Regional Airspace and Procedure Team (RAPT) review – Chart date assigned*	Development of the procedure chart	Distribution/ Publication – Operational for pilots and air traffic control

Performance Based Navigation (PBN) Processing

- **PHASE 1: Preliminary Activities -** Baseline analysis to identify expected benefits; develop conceptual procedures and/or routes.

- **PHASE 2: Design Activities –** Full working group formed to do formal designs; initial outreach activities begin; early coordination for publication slots; industry "flies" proposals in simulators; environmental and safety reviews.

- **PHASE 3: Development and Operational Preparation –** ATC training; ATC automation updates; traffic management coordination; updates to radar maps; implementation planning with industry.

- **PHASE 4: Implementation –** Procedure is published and in operational use.

- **PHASE 5: Post-Implementation** – Procedure is evaluated for 6 months to make sure it is working as designed.
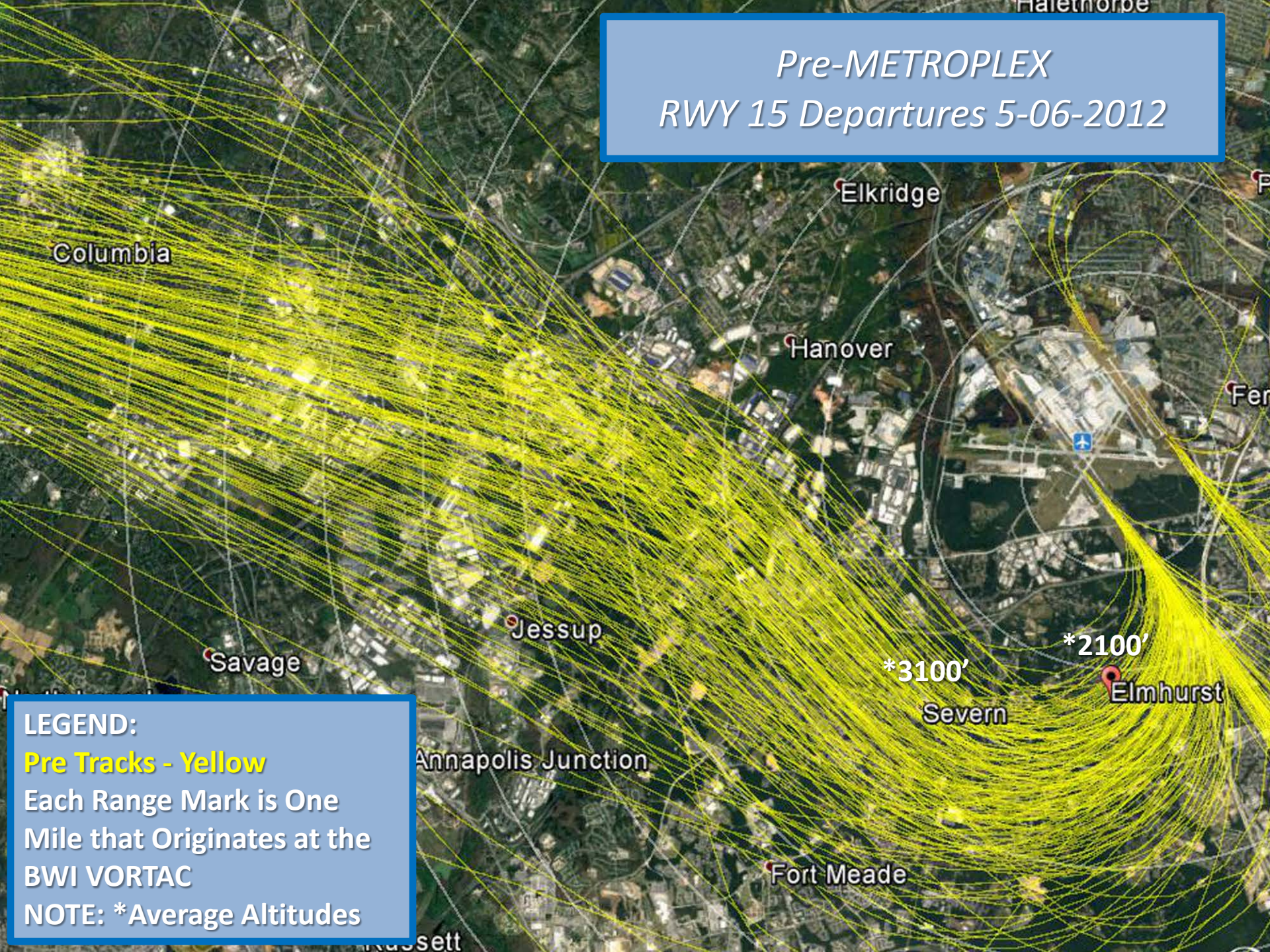
DC Metroplex Environmental Assessment

- **http://www.metroplexenvironmental.com/dc_metroplex/dc_docs.html**

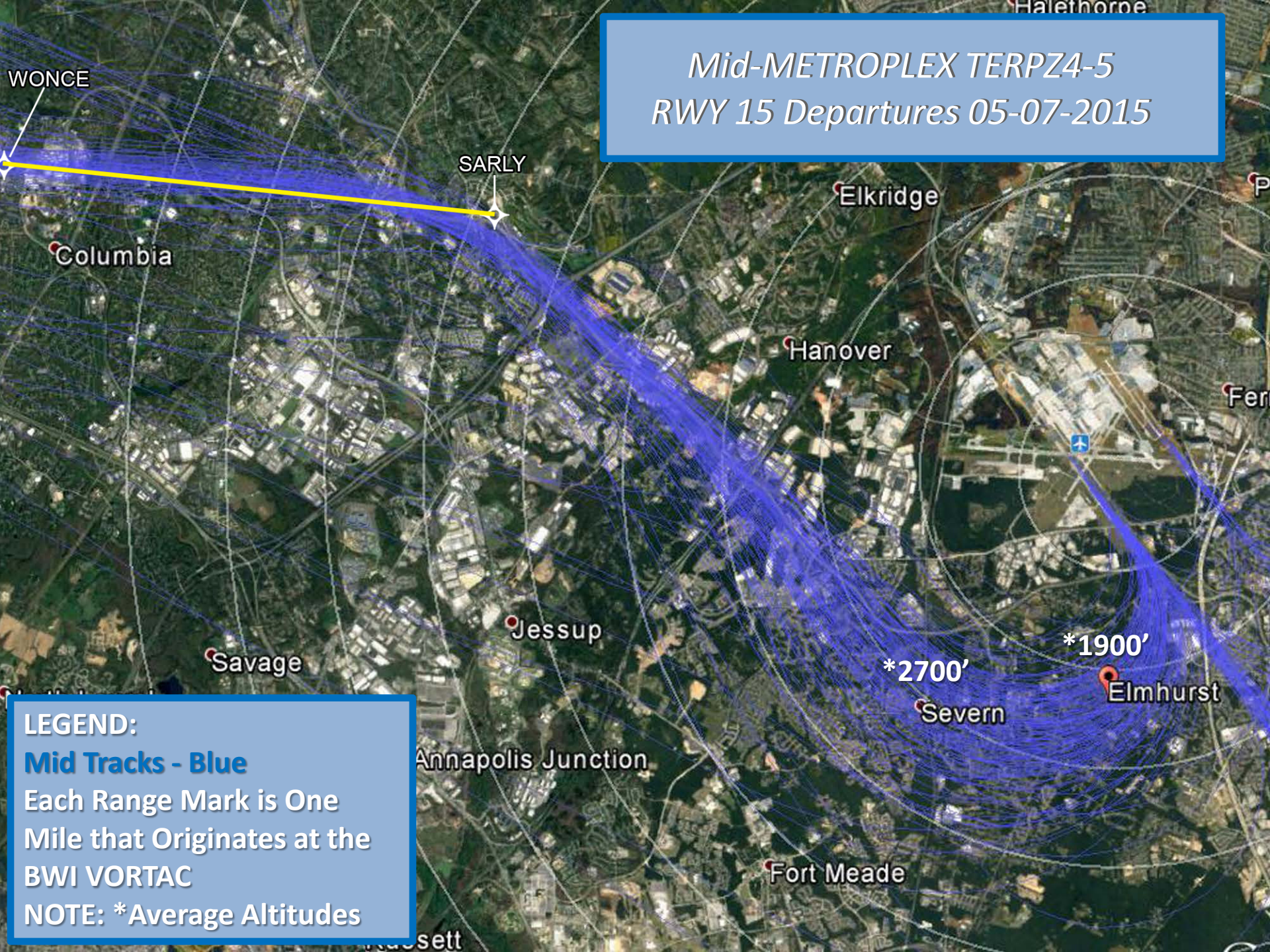Pre-METROPLEX
RWY 15 Departures 5-06-2012

*2100'

*3100'

LEGEND:
Pre Tracks - Yellow
Each Range Mark is One
Mile that Originates at the
BWI VORTAC
NOTE: *Average Altitudes

Mid-METROPLEX TERPZ4-5
RWY 15 Departures 05-07-2015

WONCE

SARLY
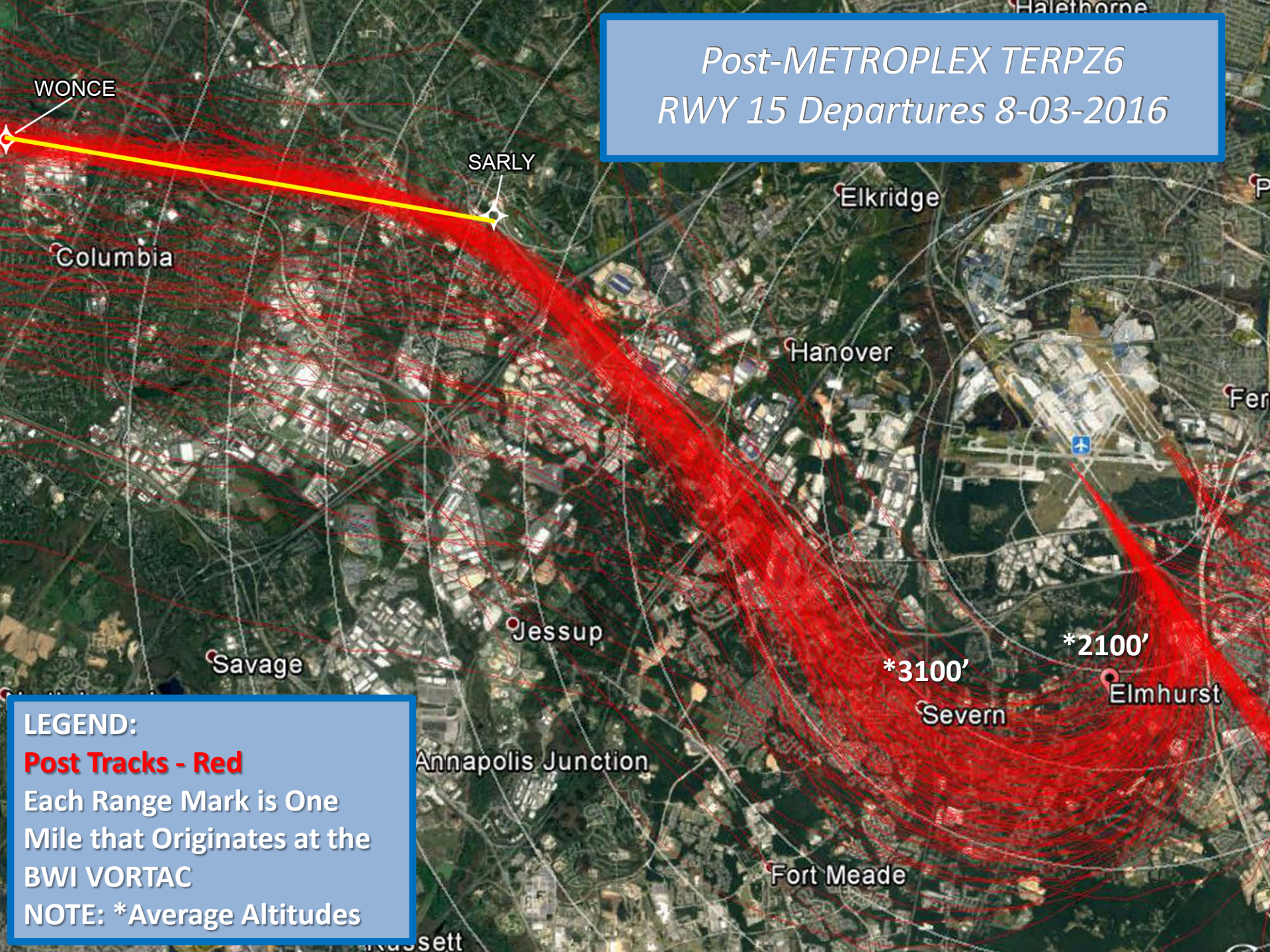
Elkridge

Columbia

Hanover

Fer

Jessup

Savage

*2700'

*1900'

Elmhurst

Severn

Annapolis Junction

LEGEND:
Mid Tracks - Blue
Each Range Mark is One
Mile that Originates at the
BWI VORTAC
NOTE: *Average Altitudes

Fort Meade

Post-METROPLEX TERPZ6
RWY 15 Departures 8-03-2016

WONCE

SARLY

Elkridge

Columbia

Hanover

Jessup

*3100'

*2100'

Severn

Elmhurst

Savage

Annapolis Junction

Fort Meade

LEGEND:
Post Tracks - Red
Each Range Mark is One
Mile that Originates at the
BWI VORTAC
NOTE: *Average Altitudes

Pre, Mid, and Post-METROPLEX
RWY 15 Departures 2012, 2015 & 2016
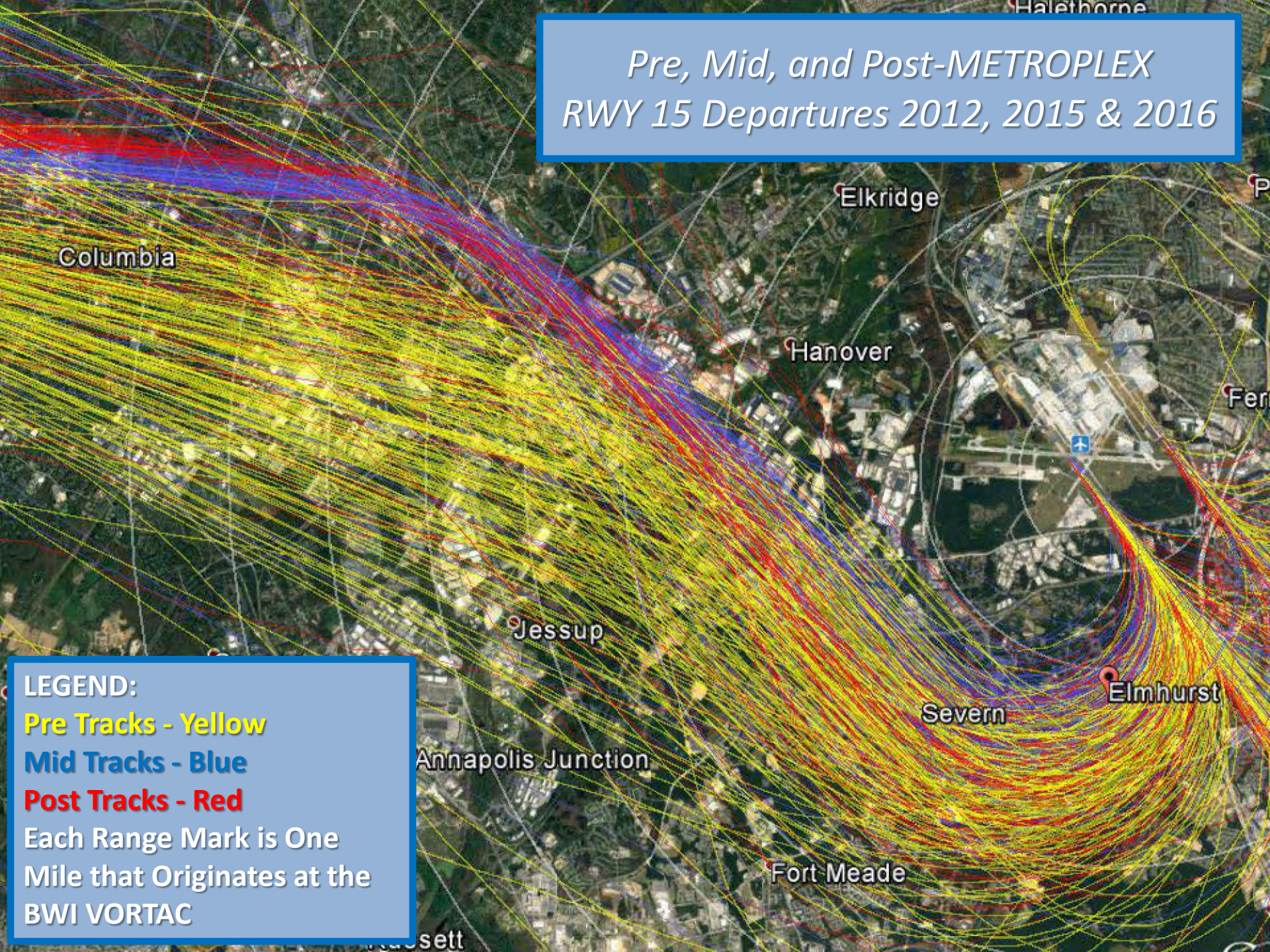
LEGEND:
Pre Tracks - Yellow
Mid Tracks - Blue
Post Tracks - Red
Each Range Mark is One
Mile that Originates at the
BWI VORTAC

Pre-METROPLEX
RWY 28 Departures 6-29-2011

LEGEND:
Pre Tracks - Yellow
Each Range Mark is One Mile that Originates at the BWI VORTAC
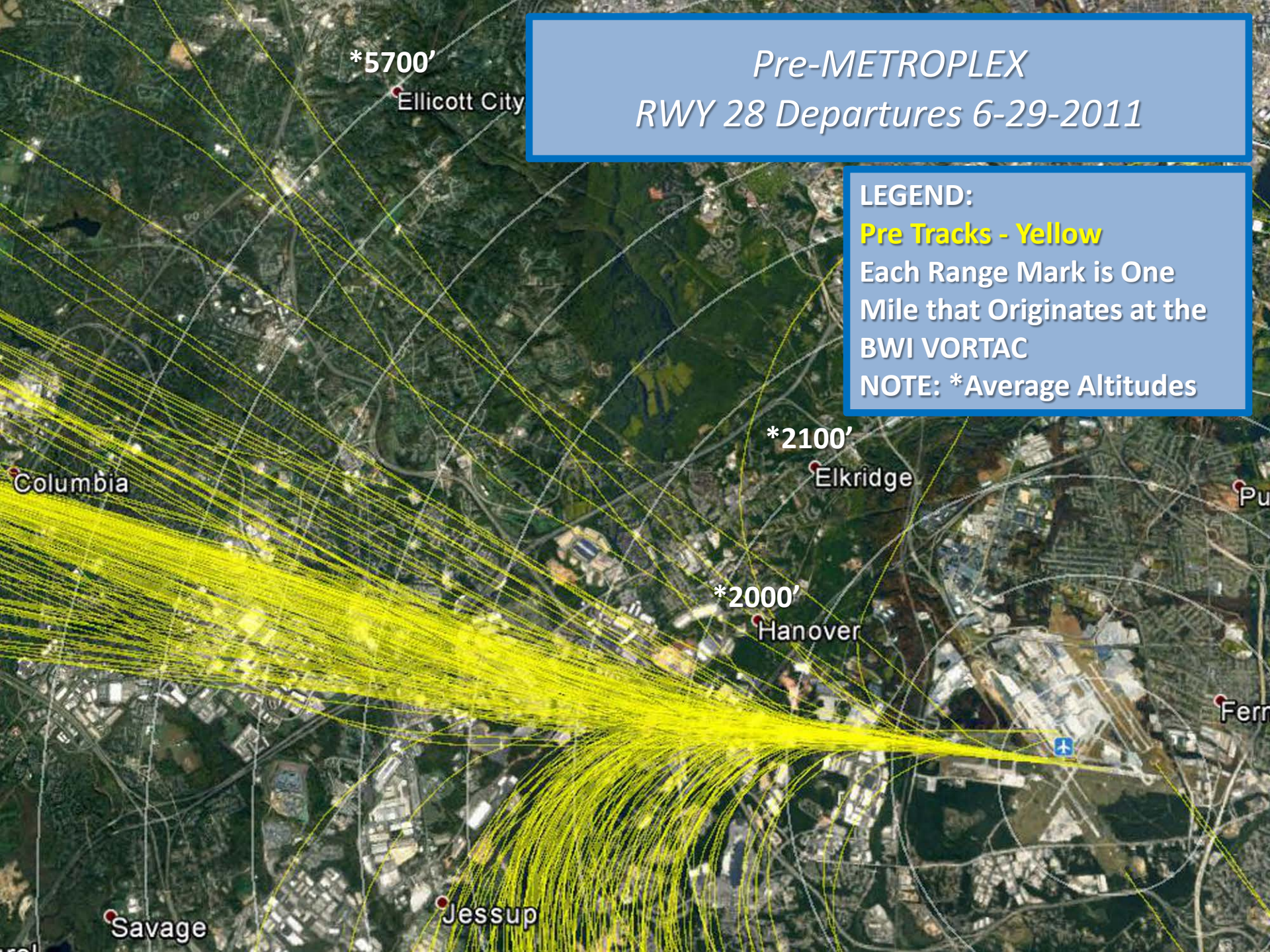NOTE: *Average Altitudes

*5700'
*2100'
*2000'

*5700'
Ellicott City

Mid-METROPLEX TERPZ4-5 / CONLE
RWY 28 Departures 5-15-2015

LEGEND:
Mid Tracks - Blue
Each Range Mark is One
Mile that Originates at the
BWI VORTAC
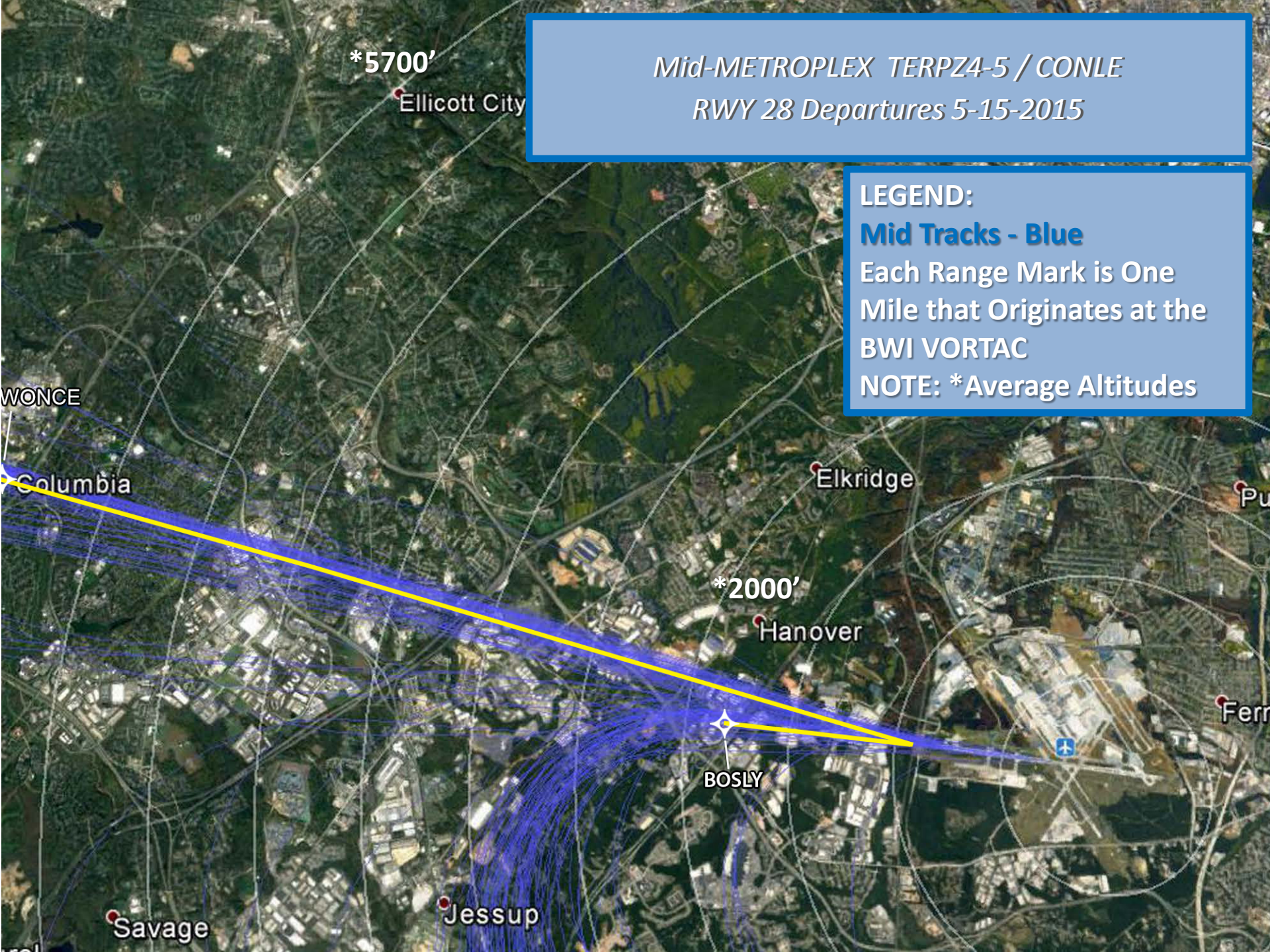NOTE: *Average Altitudes

WONCE
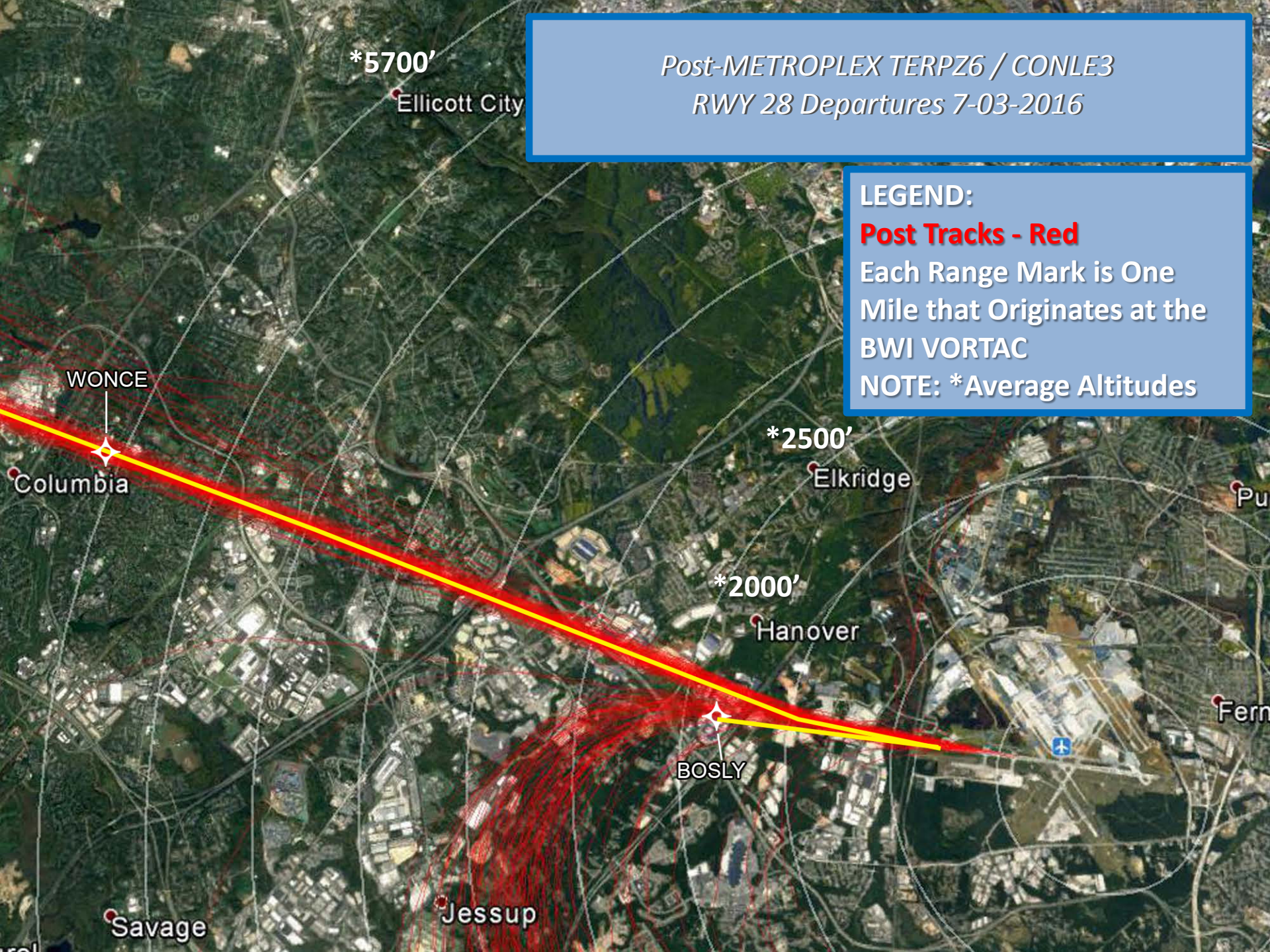
Columbia

Elkridge

Pu

*2000'
Hanover

Fer

BOSLY

Savage

Jessup

Post-METROPLEX TERPZ6 / CONLE3
RWY 28 Departures 7-03-2016

LEGEND:
Post Tracks - Red
Each Range Mark is One Mile that Originates at the BWI VORTAC
NOTE: *Average Altitudes

*5700'

Ellicott City

WONCE

Columbia

*2500'
Elkridge

Pu

*2000'
Hanover

Fern

BOSLY

Savage

Jessup

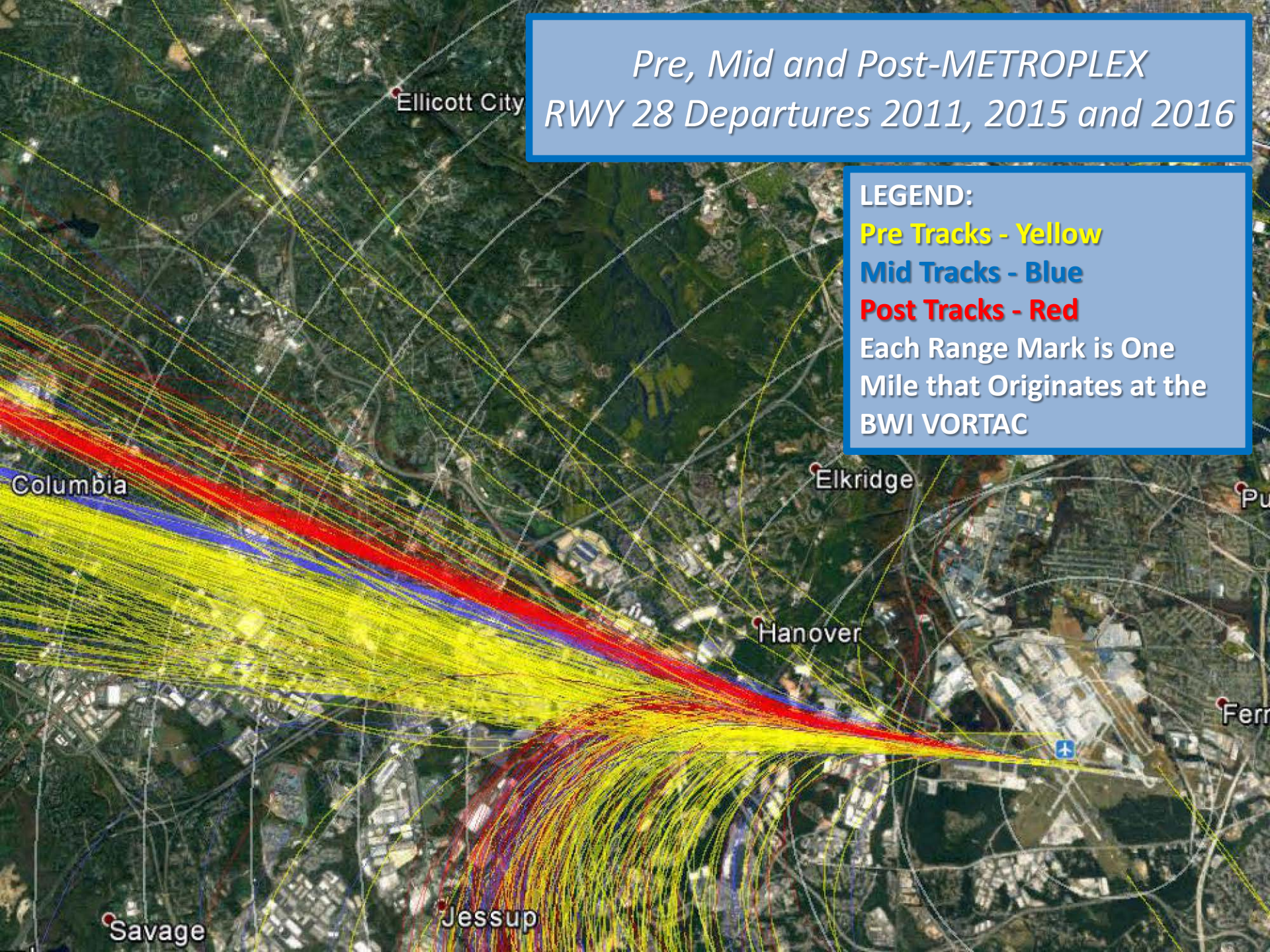*Pre, Mid and Post-METROPLEX
RWY 28 Departures 2011, 2015 and 2016*

LEGEND:
Pre Tracks - Yellow
Mid Tracks - Blue
Post Tracks - Red
Each Range Mark is One Mile that Originates at the BWI VORTAC

Pre-METROPLEX
RWY 33 Arrivals 11-15-2012

*2000'

*2400'

*3200'

LEGEND:
Pre Tracks - Yellow
Each Range Mark is One Mile that Originates at the BWI VORTAC
NOTE: *Average Altitudes

Post-METROPLEX RAVNN6/MIIDY2
RWY 33 Arrivals 7-03-2016
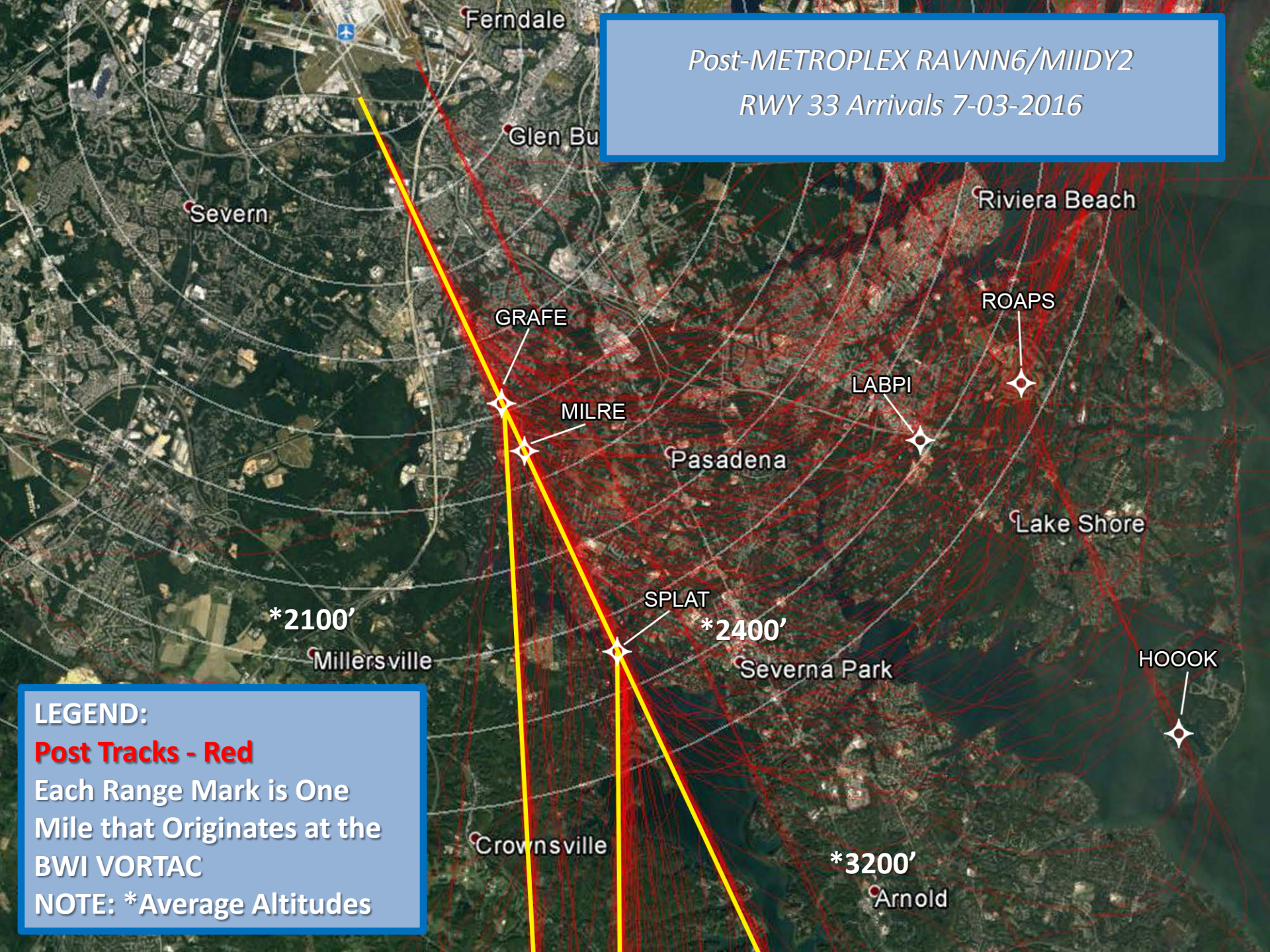
GRAFE

MILRE

ROAPS

LABPI

*2100'

SPLAT

*2400'

HOOOK

LEGEND:
Post Tracks - Red
Each Range Mark is One
Mile that Originates at the
BWI VORTAC
NOTE: *Average Altitudes

*3200'

Pre and Post-METROPLEX
RWY 33 Arrivals 2012 & 2016

LEGEND:
Pre Tracks - Yellow
Post Tracks - Red
Each Range Mark is One
Mile that Originates at the
BWI VORTAC