



Fort Lauderdale-Hollywood International Airport

# Monthly Operations & RNAV Use Report

May 2022



This RNAV Report provides a monthly overview of aircraft arriving and departing from Fort Lauderdale-Hollywood International Airport (FLL). The purpose of this report is to determine the number of aircraft that utilize Area Navigation (RNAV) procedures using the FLL Airport Noise and Operations Monitoring System (ANOMS).

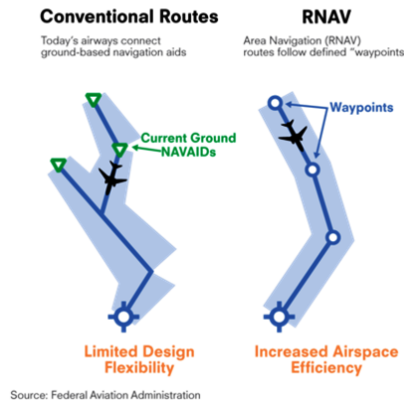
## OVERVIEW OF NEXTGEN

The Next Generation Air Transportation System (NextGen) is the FAA-led modernization of the United States National Airspace System (NAS). Goals include using new technologies and procedures to increase the safety, efficiency, and predictability of the NAS, as well as reducing the overall environmental impact of aviation. The FAA implemented the South-Central Florida Metroplex Project on August 12, 2021. This project is aimed at improving the safety and efficiency of airspace in South-Central Florida by optimizing arrival and departure procedures at 21 regional airports.

## RNAV

RNAV is a method of navigation that consists of routes formed from a series of waypoints (geographical points on the ground) that may have required altitude or performance characteristics. Aircraft said to be navigating on RNAV procedures must fly over or near these waypoints (within a given tolerance), attaining the given altitude or performance settings set by the FAA and air traffic control (ATC). The potential advantages of RNAV routes include time and fuel savings, reduced dependency on radar vectoring, reduced ATC transmissions, and more efficient use of airspace.

### NEXT GEN Components: RNAV/RNP Moving to Performance-Based Navigation



## Operations and Runway Use

This section provides a tabular and graphical summary of monthly operations and runway use at FLL. Monthly operations are broken down by airframe type, arrivals, and departures, time of day (night defined as 10:30 pm to 6:00 am) and runway use is separated graphically by east and west flow.

## RNAV PROCEDURES FOR FLL

This report provides a tabular and graphical summary of overall RNAV procedures for FLL. For aircraft arriving to or departing from FLL, there are 14 published RNAV procedures in total. These procedures each consist of waypoints and have multiple routes. This report will allow residents near the airport to understand, at a glance, the usage of RNAV procedures that most affect them.

Standard Instrument Departures (SIDs) pre-May 19/post-May 19

- AARPS, BNGOS, FEELX, GLADZ, MHITO, REGAE, SNAPR, TWZTR/HURCN, VACAY
- AGERS, BNICE, FEALX, GLADZ, FRSBE, HROCK, LIFRR, MAYNR, REGAE, SNAPR

Standard Arrival Routes (STARs)

- BHHIA, CUUDA, OLAHS, TEEKY

## FLIGHT TRACK DENSITY PLOTS

Flight track density plots show the relative use of the airspace surrounding FLL. Color ranges are assigned based on the relative density of traffic (from low to high) for several categories:

- Jet Arrivals
- Jet Departures
- Jet Departures – Close Up
- Non-Jet Operations

## RESOURCES

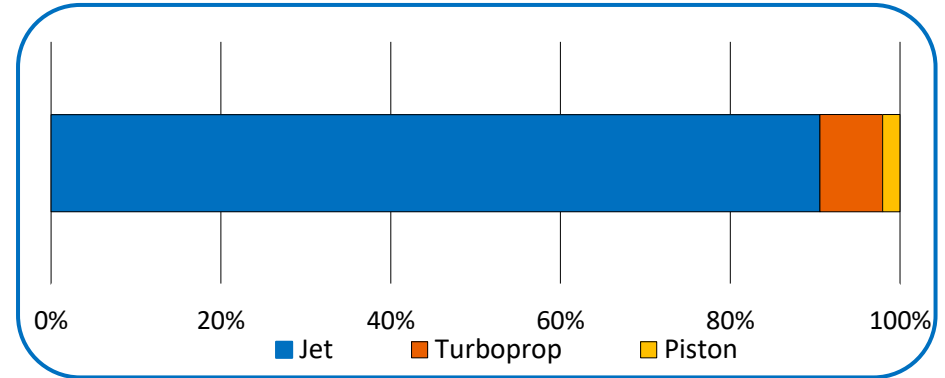
- [https://www.faa.gov/air\\_traffic/community\\_engagement/florida/](https://www.faa.gov/air_traffic/community_engagement/florida/)
- [http://metroplexenvironmental.com/fl\\_metroplex/fl\\_introduction.html](http://metroplexenvironmental.com/fl_metroplex/fl_introduction.html)
- [http://www.metroplexenvironmental.com/fl\\_metroplex/fl\\_docs.html](http://www.metroplexenvironmental.com/fl_metroplex/fl_docs.html)
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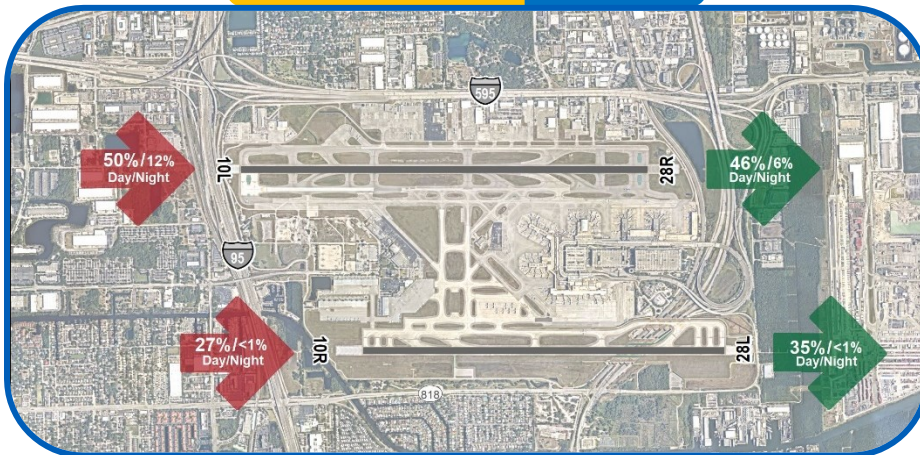
# Monthly Operations and Runway Use

May 2022

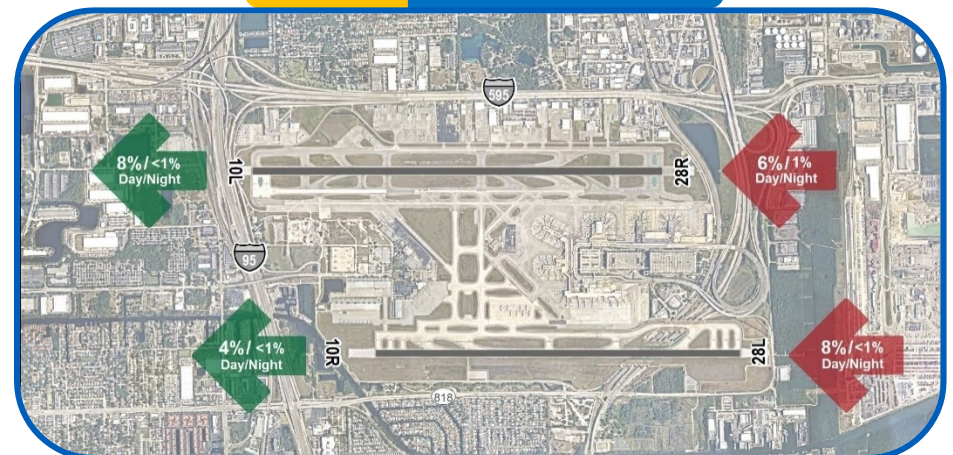
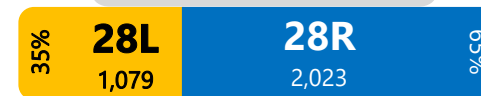
Type	Arrivals	Departures	Total
Jet	11,354	11,396	22,750
Turboprop	980	969	1949
Piston	228	223	452
<b>Total</b>	<b>12,562</b>	<b>12,589</b>	<b>25,151</b>



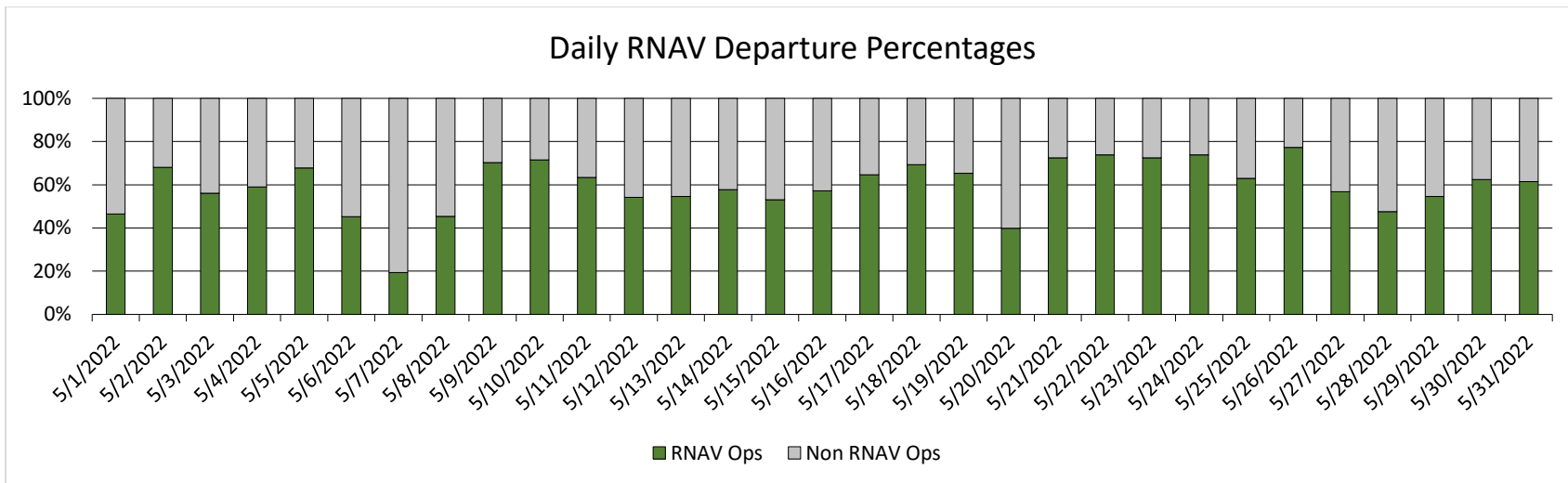
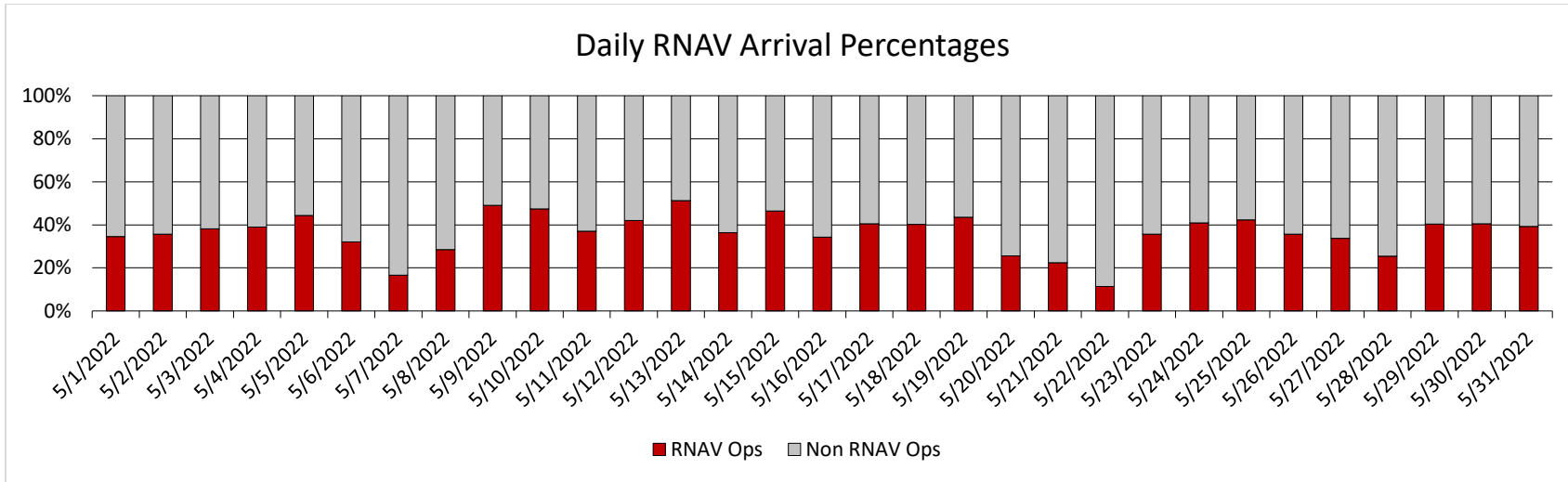
## East Flow Runway Use



## West Flow Runway Use

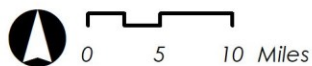
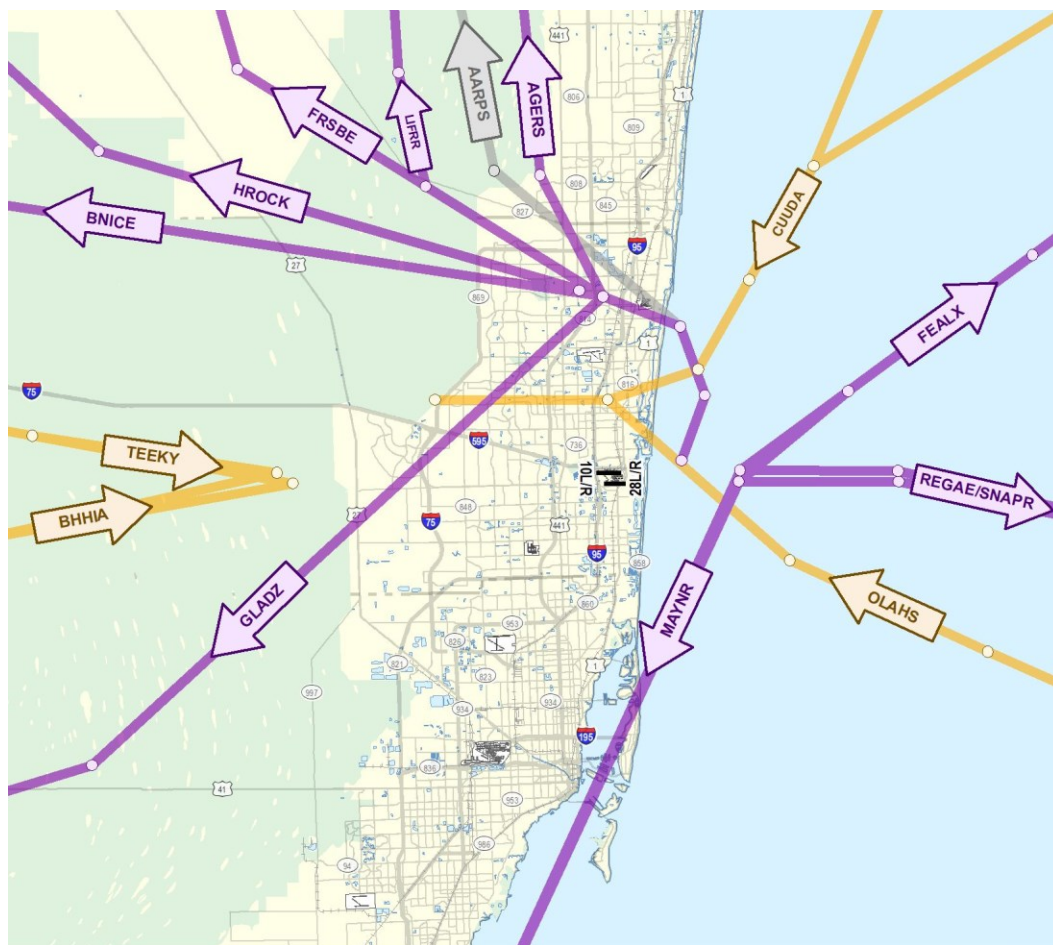


## Arrival and Departure Daily RNAV Percentages



# FLL RNAV East Flow Operations

Monthly RNAV Use Summary



- FLL STAR Procedure
- FLL SID Procedure
- FLL Procedure Removed Mid-May

Note: The Arrivals and Departures tables on the right represent the total number of flights during the month flying the full procedure for each procedure listed. Percentages represent any jet flying on an RNAV within Broward County. Flights that are vectored early are not included in this list.

## STARS | Arrivals

Procedure Name	# of Operations
BHHIA	236
CUUDA	627
OLAHS	124
TEEKY	759

39%



## SIDS | Departures

Procedure Name	# of Operations
AARPS	451
AGERS	22
BNGOS	128
BNICE	110
FEALX	1757
FRSBE	219
GLADZ	36
HROCK	198
LIFRR	146
MHITO	46
REGAE	35
SNAPR	767
TWTZR/HURCN	160
VACAY	112

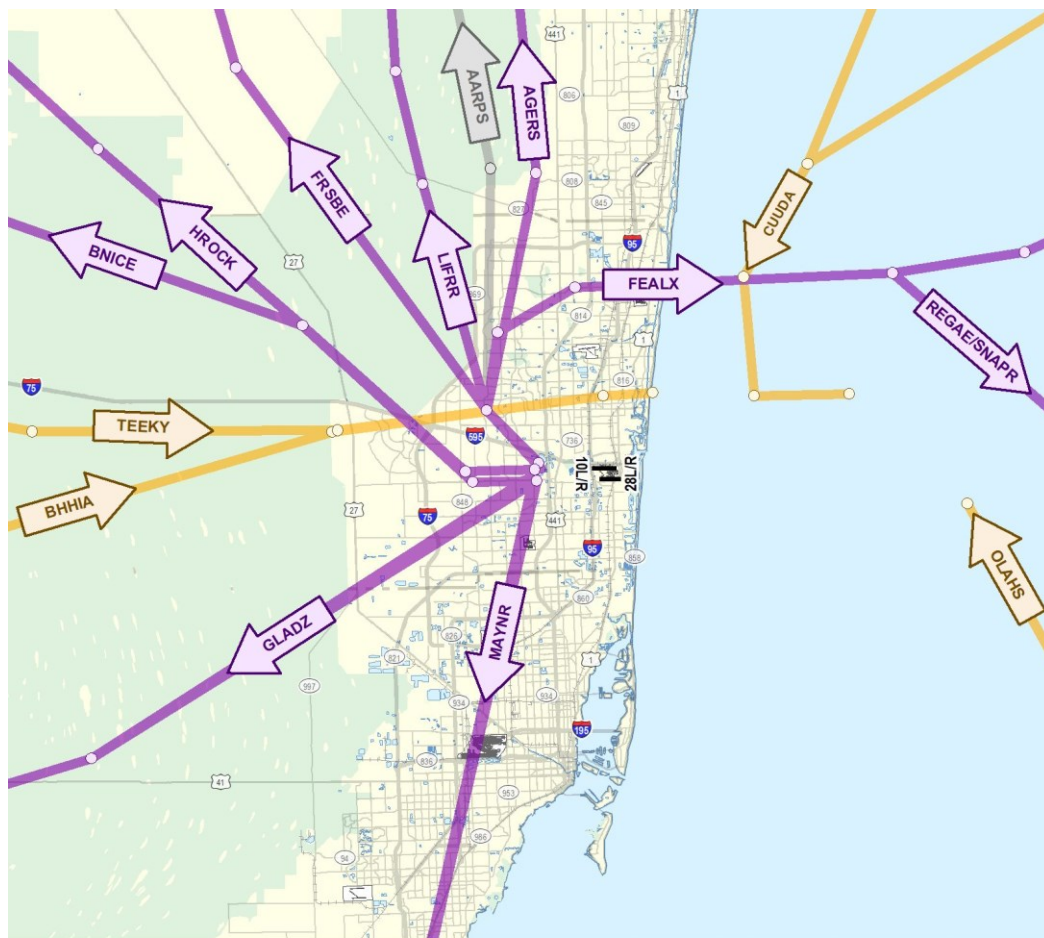
63%



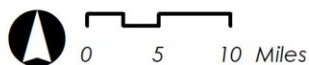


# FLL RNAV West Flow Operations

Monthly RNAV Use Summary



FLL STAR Procedure  
 FLL SID Procedure  
 FLL Procedure Removed Mid-May



Note: The Arrivals and Departures tables on the right represent the total number of flights during the month flying the full procedure for each procedure listed. Percentages represent any jet flying on an RNAV within Broward County. Flights that are vectored early are not included in this list.

## STARS | Arrivals

Procedure Name	# of Operations
BHHIA	22
CUUDA	33
OLAHS	7
TEEKY	174

22%

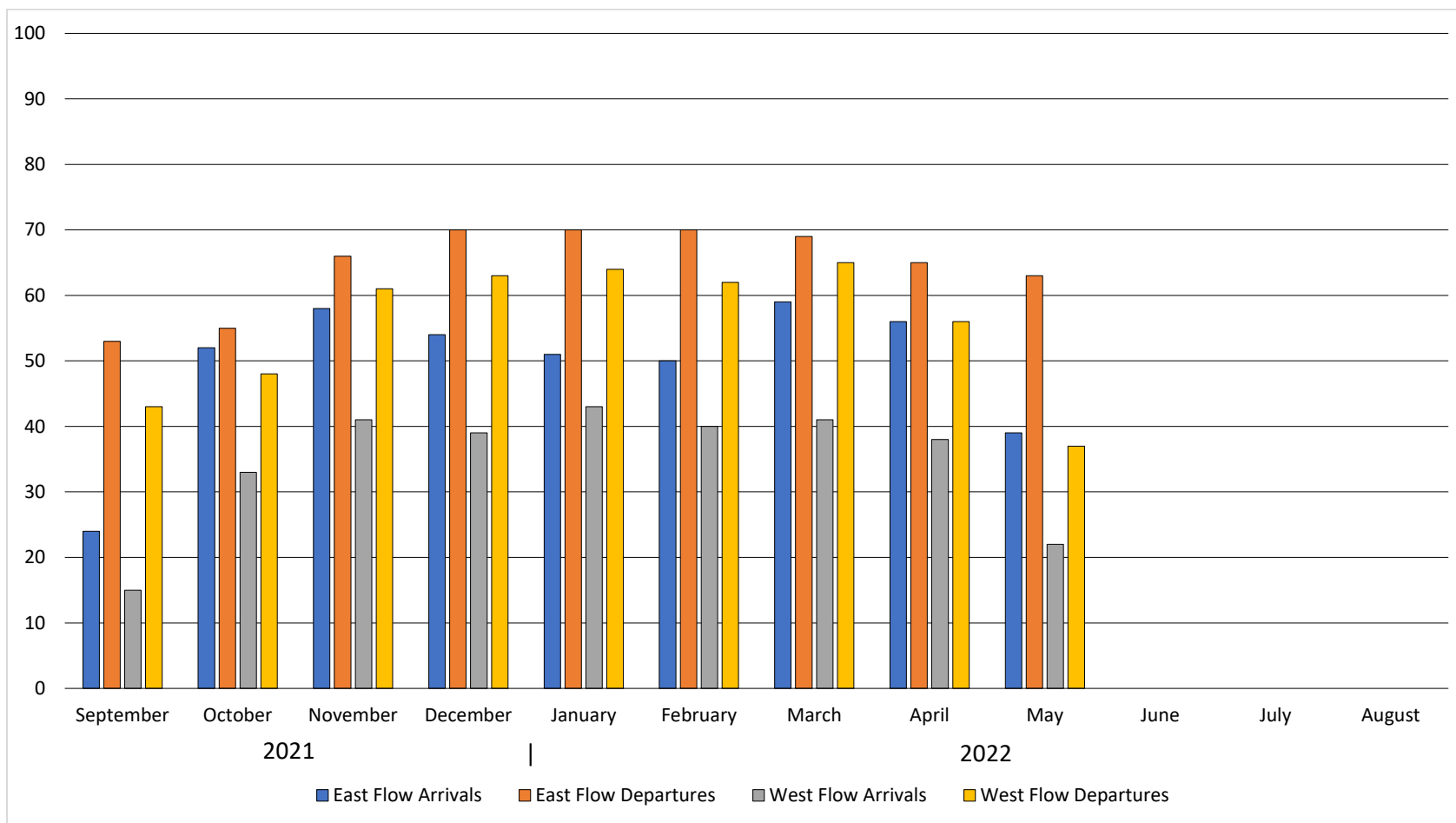
## SIDS | Departures

Procedure Name	# of Operations
AARPS	107
AGERS	0
BNGOS	36
BNICE	3
FEALX	174
FRSBE	7
GLADZ	1
HROCK	5
LIFRR	0
MHITO	67
REGAE	0
SNAPR	0
TWZTR/HURCN	56
VACAY	56

37%

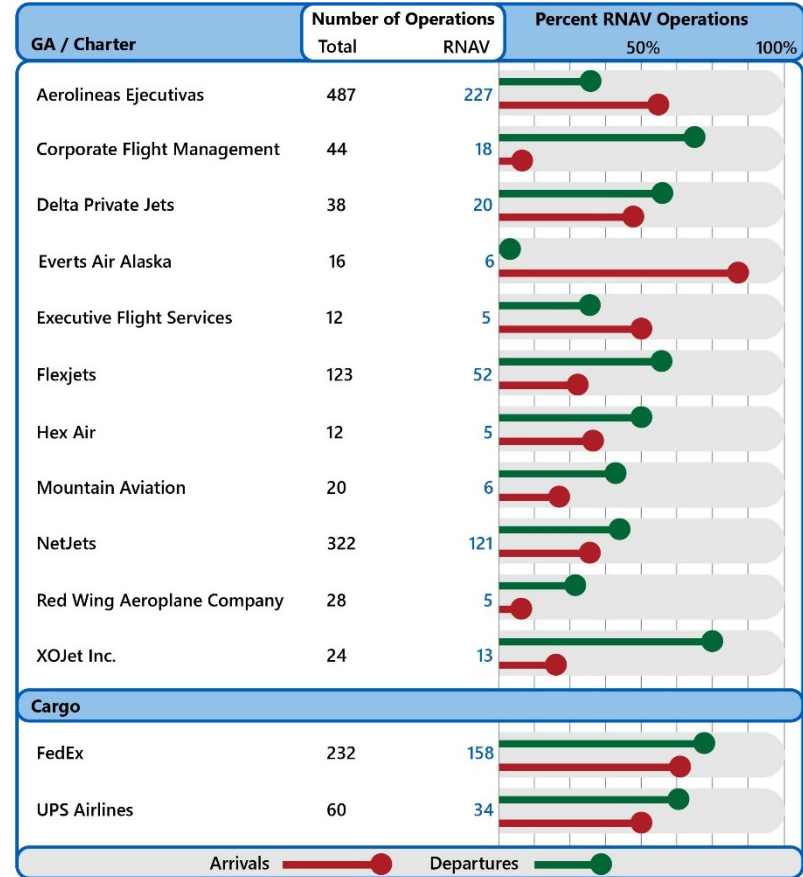
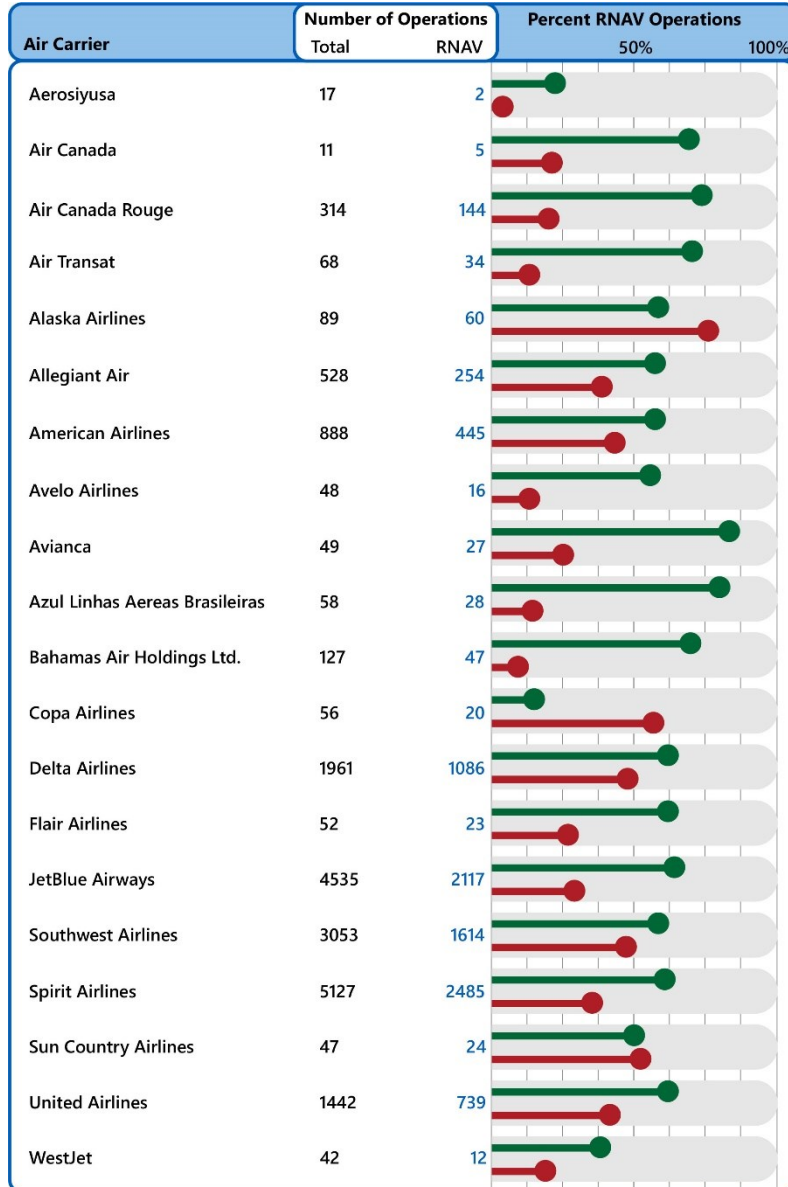
## Monthly East and West Flow RNAV Percentages

May 2022



## Monthly RNAV Use by Operator

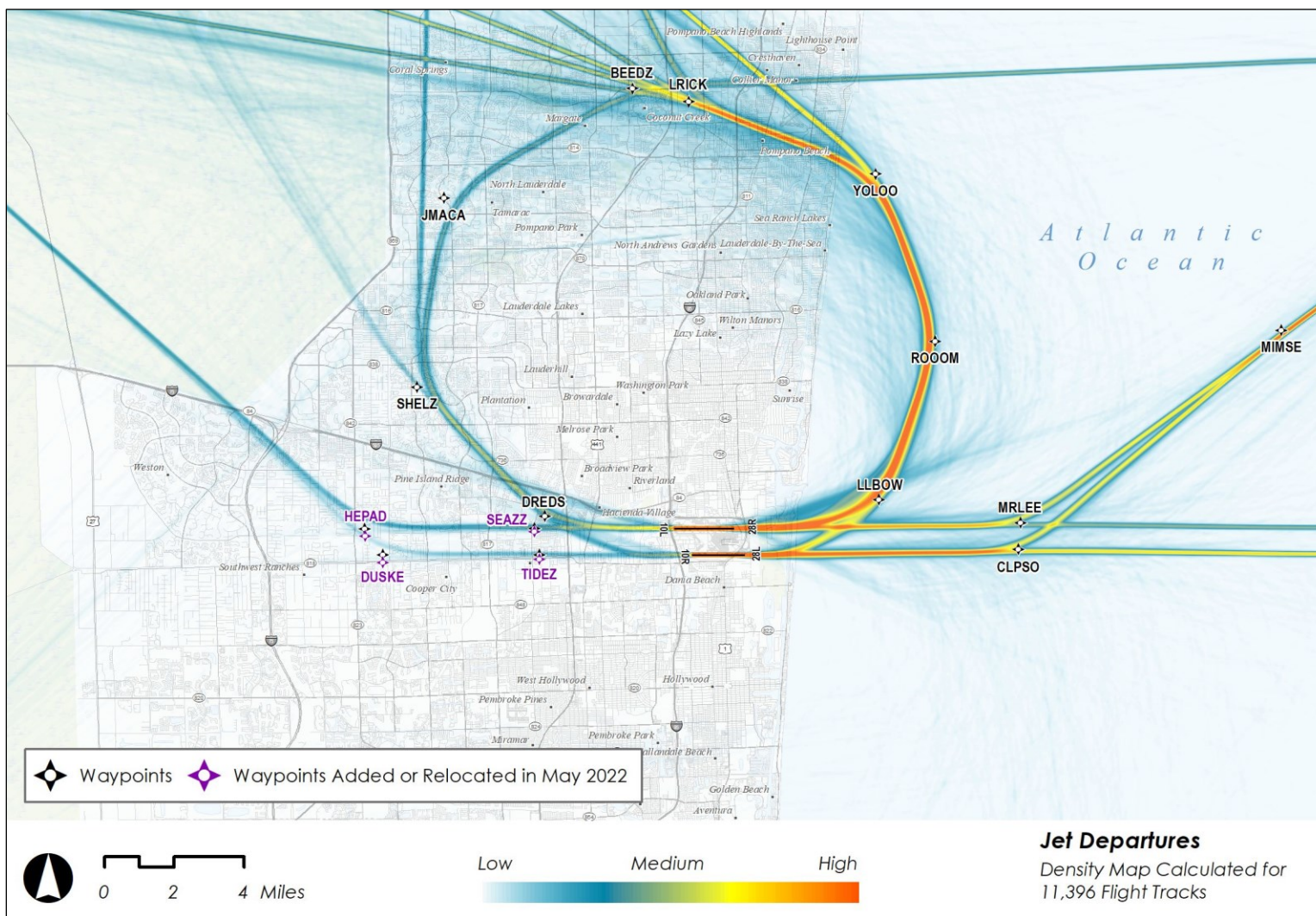
May 2022





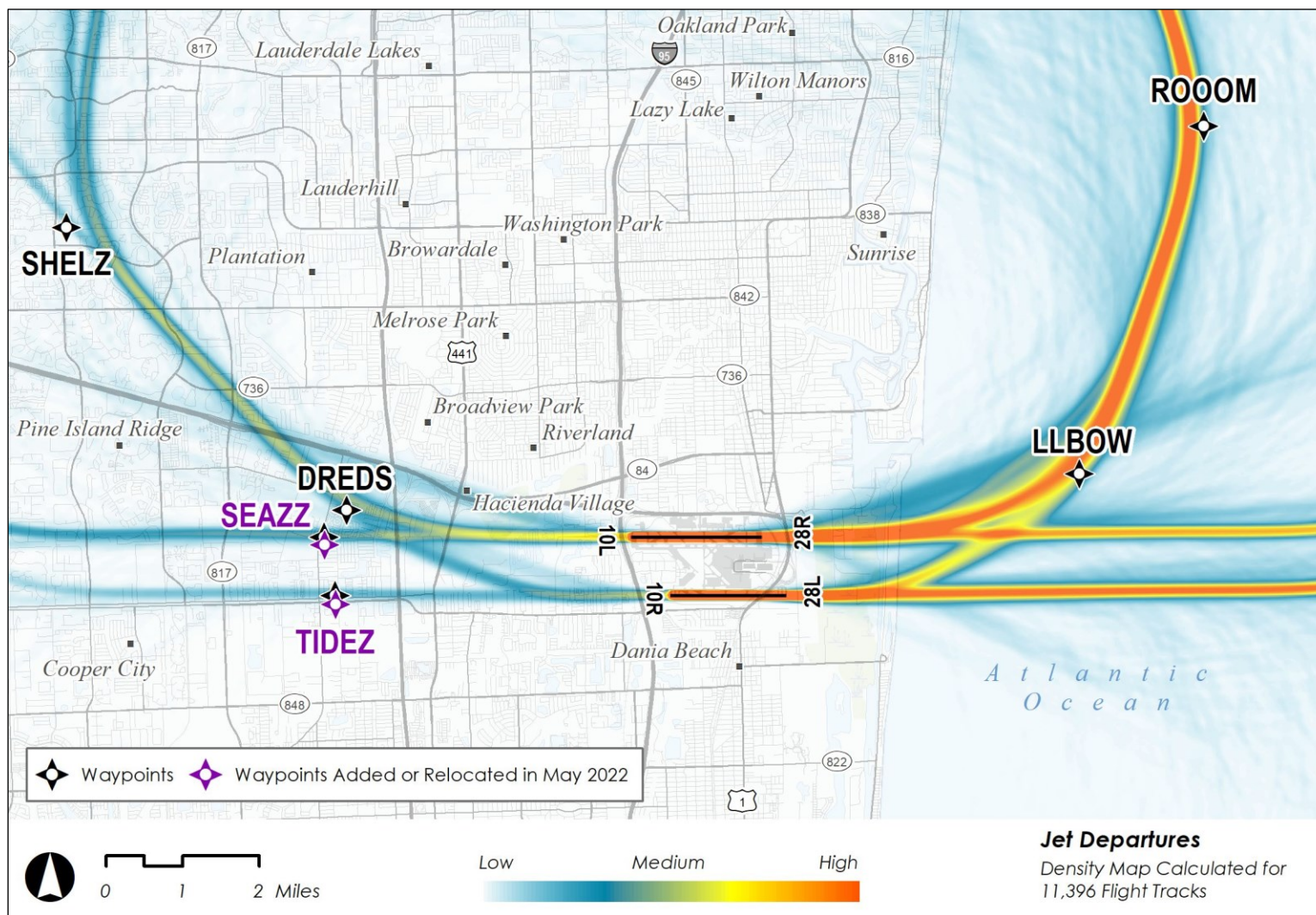
# Relative Airspace Density

For All Jet Departures  
 May 2022



# Relative Airspace Density

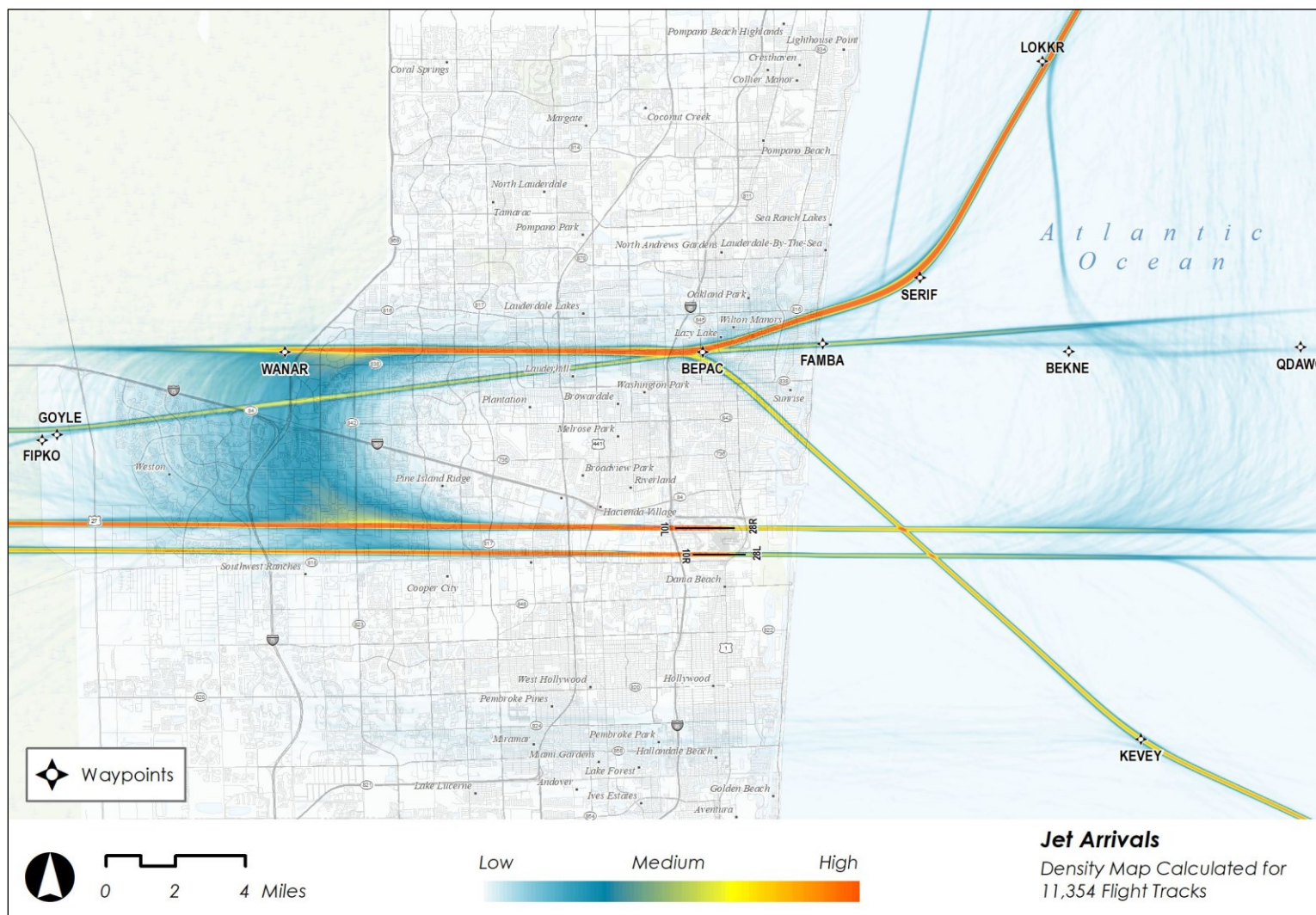
For All Jet Departures  
 May 2022





# Relative Airspace Density

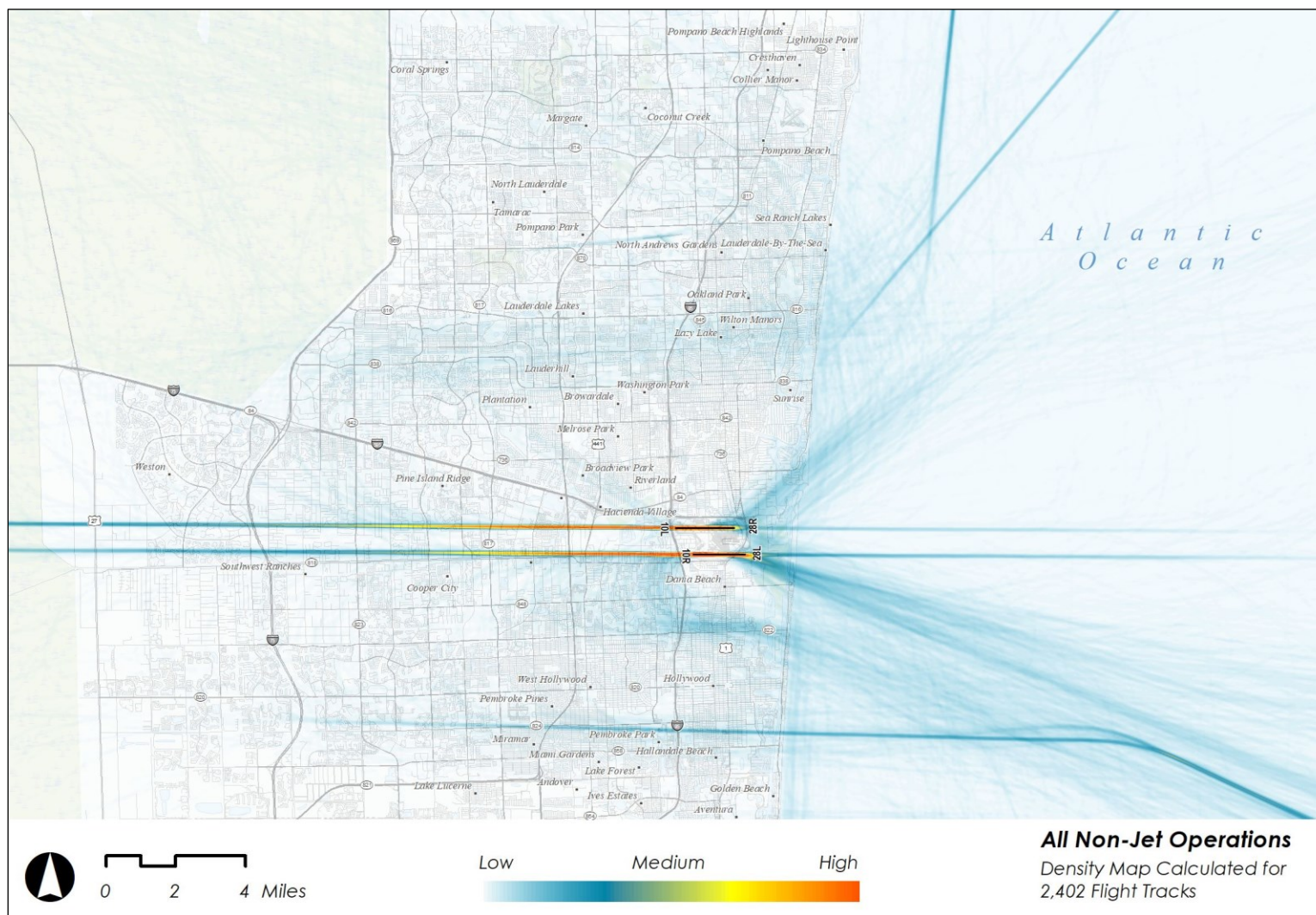
For All Jet Arrivals  
 May 2022





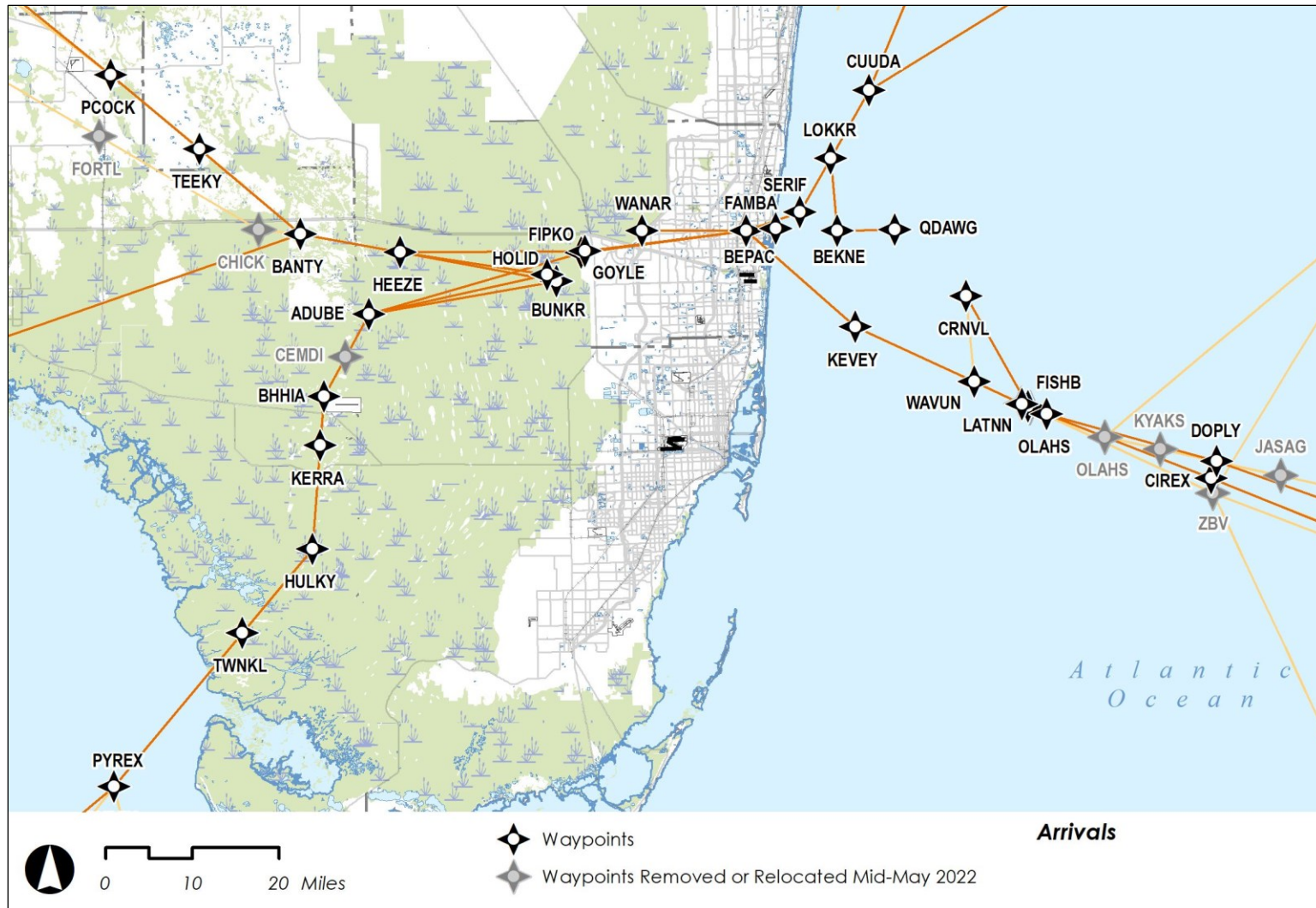
# Relative Airspace Density

For All Non-Jet Arrival and Departures  
 May 2022



# Appendix

## South-Central Florida Metroplex FLL Arrivals (STARS)









# Appendix

## South-Central Florida Metroplex Waypoints by Procedure

### STARS | Arrivals

**BHHIA TWO:** 10L: [PYREX+|TWNKL+]-HULKY-KERRA-BHHIA-ADUBE-HOLID  
**BHHIA TWO:** 10R: [PYREX+|TWNKL+]-HULKY-KERRA-BHHIA-ADUBE-BUNKR  
**BHHIA TWO:** 28L/R: [PYREX+|TWNKL+]-HULKY-KERRA-BHHIA-ADUBE-FIPKO-BEPAC-FAMBA

**CUUDA TWO:** 10L/R: [MACKL+|PLAID+]-CUUDA-LOKKR-SERIF-BEPAC-WANAR  
**CUUDA TWO:** 28L/R: [MACKL+|PLAID+]-CUUDA-LOKKR-BEKNE-QDAWG

**OLAHS TWO:** 10L/R: [DOPLY+|CIREX+]-OLAHS-LATNN-WAVUN-KEVEY-BEPAC-WANAR  
**OLAHS TWO:** 28L/R: [DOPLY+|CIREX+]-OLAHS-FISHB-CRNVL

**TEEKY TWO:** 10L: [PCOCK+|MARCI+]-TEEKY-BANTY-HEEZE-HOLID  
**TEEKY TWO:** 10R: [PCOCK+|MARCI+]-TEEKY-BANTY-HEEZE-BUNKR  
**TEEKY TWO:** 28L/R: [PCOCK+|MARCI+]-TEEKY-BANTY-HEEZE-GOYLE-BEPAC-FAMBA

### SIDS | Departures

**AGERS ONE:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-AGERS-[HURGI+]-PERTS-AARPS-MMART-ENWOD  
SEAZY-[DUCEN+]  
**AGERS ONE:** 28L/R: DREDS-SHELZ-AGERS-[HURGI+]-PERTS-AARPS-MMART-ENWOD-SEAZY-[DUCEN+]

**BNICE ONE:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-MRENO-BNICE-[COREA+|DOLIE+|MERKS+]  
**BNICE ONE:** 28L: TIDEZ-DUSKE-KBUNK-MRENO-BNICE-[COREA+|DOLIE+|MERKS+]  
**BNICE ONE:** 28R: SEAZZ-HEPAD-KBUNK-MRENO-BNICE-[COREA+|DOLIE+|MERKS+]

**FEALX TWO:** 10L: MRLEE-MIMSE- FEALX-[PADUS+|PREDA+|WOLFO+]  
**FEALX TWO:** 10R: CLPSO-MIMSE-FEALX-[PADUS+|PREDA+|WOLFO+]  
**FEALX TWO:** 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-FEALX-[PADUS+|PREDA+|WOLFO+]

**GLADZ TWO:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-GAYTR-RUTLG-GLADZ-[WIGNA+|MARCI+]  
**GLADZ TWO:** 28L: TIDEZ-GAYTR-RUTLG-GLADZ-[WIGNA+|MARCI+]  
**GLADZ TWO:** 28R: SEAZZ-GAYTR-RUTLG-GLADZ-[WIGNA+|MARCI+]

**FRSBE ONE:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-ALNZO-FRSBE-[WAPOM+|STYMY+]  
**FRSBE ONE:** 28L/R: DREDS-SHELZ-ALNZO-FRSBE-[WAPOM+|STYMY+]

**HROCK ONE:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-JOENZ-HROCK-[KPASA+|SMELZ+]  
**HROCK ONE:** 28L: TIDEZ-DUSKE-KBUNK-JOENZ-HROCK-[KPASA+|SMELZ+]  
**HROCK ONE:** 28R: SEAZZ-HEPAD-KBUNK-JOENZ-HROCK-[KPASA+|SMELZ+]

**LIFRR ONE:** 10L/R: LLBOW-ROOOM-YOLOO-LRICK-LIFRR-BOBOE-DURRY-CLEFF-[WIXED+|BAIRN+]  
**LIFRR ONE:** 28L/R: DREDS-SHELZ-LIFRR-BOBOE-DURRY-CLEFF-[WIXED+|BAIRN+]

**MAYNR ONE:** 10L: MRLEE-AUSTI-MAYNR-MCLAW-[FUNDI+|JABOX+]  
**MAYNR ONE:** 10R: CLPSO-AUSTI-MAYNR-MCLAW-[FUNDI+|JABOX+]  
**MAYNR ONE:** 28L: TIDEZ-AUSTI-MAYNR-MCLAW-[FUNDI+|JABOX+]  
**MAYNR ONE:** 28R: SEAZZ-AUSTI-MAYNR-MCLAW-[FUNDI+|JABOX+]

**REGAE TWO:** 10L: MRLEE-REELZ-PASTL-REGAE-NINNO-CRUZN-GLAMS-LRODD-[URSUS+]  
**REGAE TWO:** 10R: CLPSO-CUDEL-PASTL-REGAE-NINNO-CRUZN-GLAMS-LRODD-[URSUS+]  
**REGAE TWO:** 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-GTWAY-PASTL-REGAE-NINNO-CRUZN-GLAMS-LRODD-[URSUS+]

**SNAPR TWO:** 10L: MRLEE-REELZ-ZOMBI-SNAPR-KRAFT-HEYDR-[RAJAY+|SUMAC+]  
**SNAPR TWO:** 10R: CLPSO-CUDEL-ZOMBI-SNAPR-KRAFT-HEYDR-[RAJAY+|SUMAC+]  
**SNAPR TWO:** 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-GTWAY-SNAPR-KRAFT-HEYDR-[RAJAY+|SUMAC+]

To view the active published FAA full procedure plates, please follow the link here:

[https://www.faa.gov/air\\_traffic/flight\\_info/aeronav/procedures/application/?event=procedure.results&tab=charts&nasrid=FLL#searchResultsTop](https://www.faa.gov/air_traffic/flight_info/aeronav/procedures/application/?event=procedure.results&tab=charts&nasrid=FLL#searchResultsTop)

## Noise Information

### Ways to File an Aircraft Noise Comment

To file a formal aircraft noise comment, choose one of the following options:

Online: Complete the [Noise Comment Form](#) then select the Submit button.

By Phone: Call the Noise Comment Hotline at 954-359-2366

Download the new [Noise Comment Web App](#) and use this platform to file a complaint.

### Using the New Noise Comment Web App to file a noise complaint.

From a mobile phone, click this link [Noise Comment Web App](#) and download to an iPhone or Android phone.

The link is **only** accessible from a mobile phone. It is **not** available in the iOS or Google Play App stores. It is **only** available from the webpage.

#### **Noise Comment Web App Instructions:**

Save the app to your home screen using the link above.

From an iPhone: Tap the box with the vertical arrow and select add to the home screen.

From an Android phone: Tap the 3 Menu dots and select add to the homepage.

Go to your home screen and open the new noise comment web app.

Enter your comment information following Steps 1-5 and click Submit.

Note: After using the noise comment web app the first time, user information is saved and does not need to be re-entered. You can submit additional comments by tapping "Submit Comment."

If you have questions or comments about the app, please contact the Aviation Department at 954-359-6181

Prepared by Harris Miller Miller & Hanson Inc. on behalf of Broward County Aviation Department.