



Fort Lauderdale-Hollywood International Airport



Monthly Operations & RNAV Use Report

December 2021

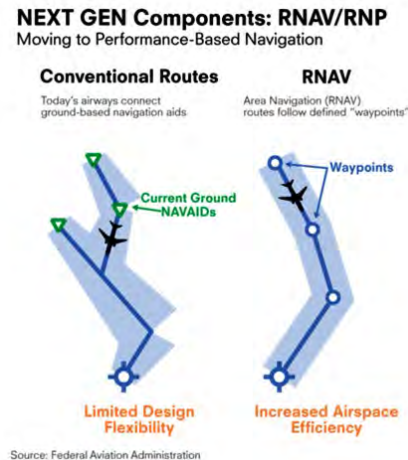
This RNAV Report provides a monthly overview of aircraft arriving and departing from Fort Lauderdale-Hollywood International Airport (FLL). The purpose of this report is to determine the number of aircraft that utilize Area Navigation (RNAV) procedures using the FLL Airport Noise and Operations Monitoring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



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)

- AARPS, BNGOS, FEELX, GLADZ, MHITO, REGAE, SNAPR, TWZTR/HURCN, VACAY

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

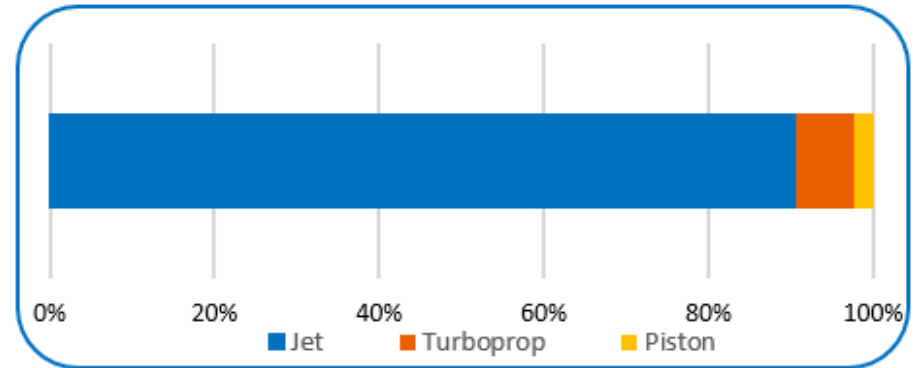
RESOURCES

- https://www.faa.gov/air_traffic/community_engagement/florida/
- http://metroplexenvironmental.com/fl_metroplex/fl_introduction.html
- http://www.metroplexenvironmental.com/fl_metroplex/fl_docs.html
- https://www.faa.gov/nextgen/this_is_nextgen/

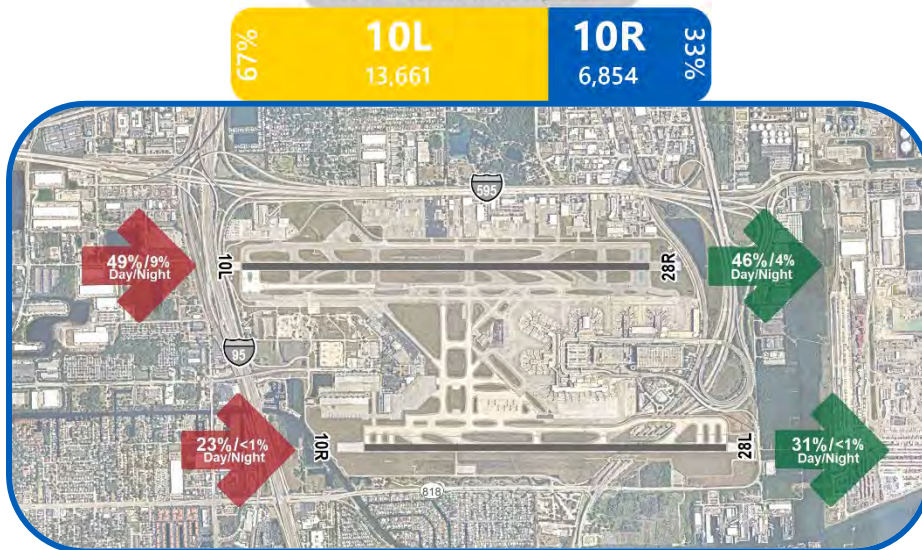
Monthly Operations and Runway Use

December 2021

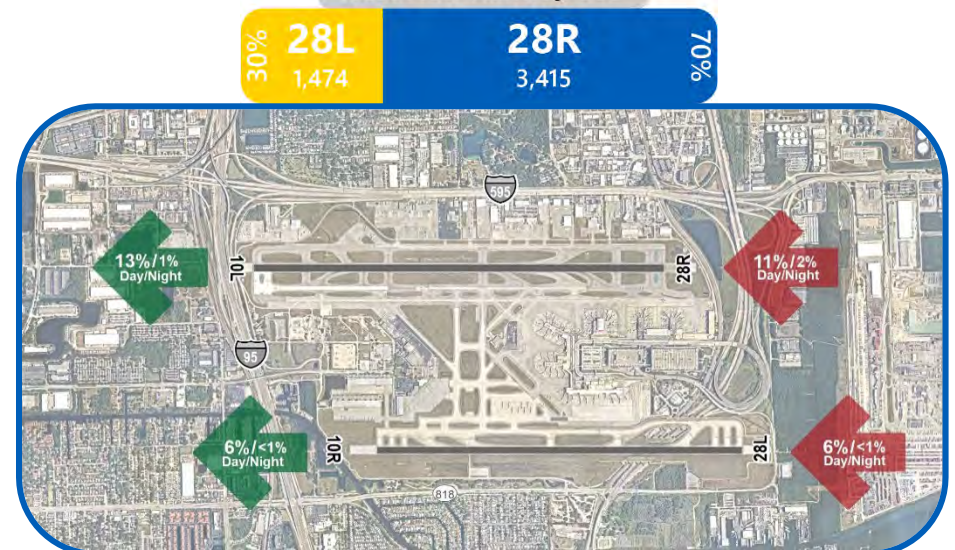
Type	Arrivals	Departures	Total
Jet	11,580	11,449	23,029
Turboprop	908	885	1,793
Piston	325	296	621
Total	12,813	12,630	25,443



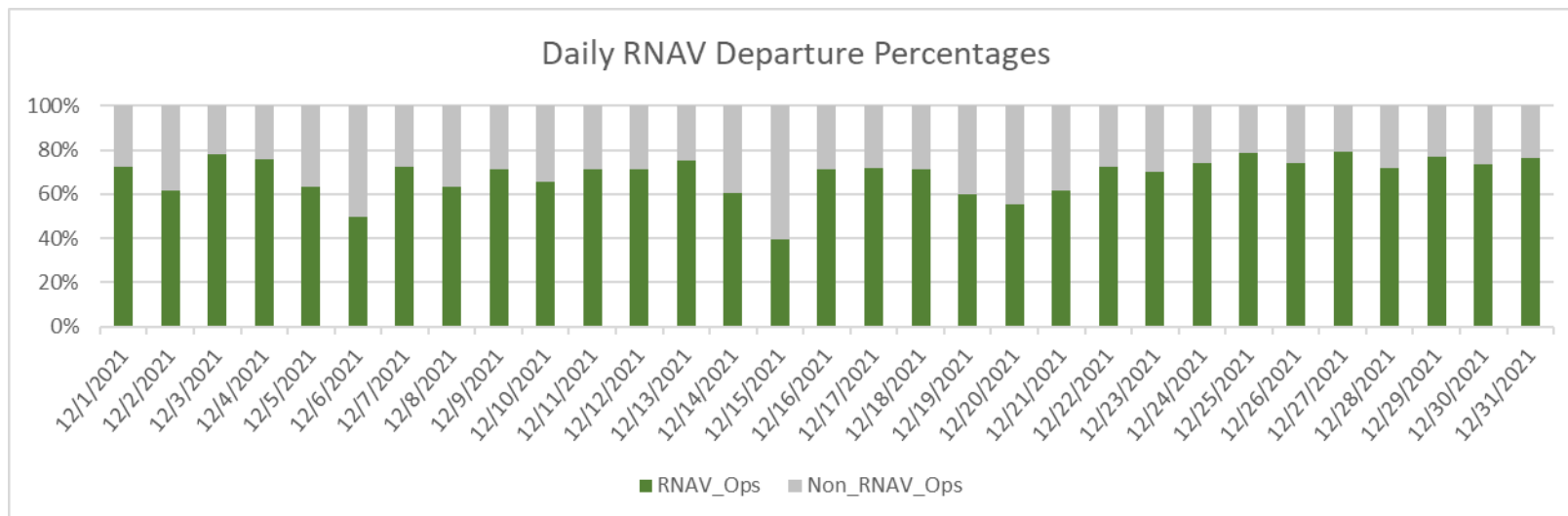
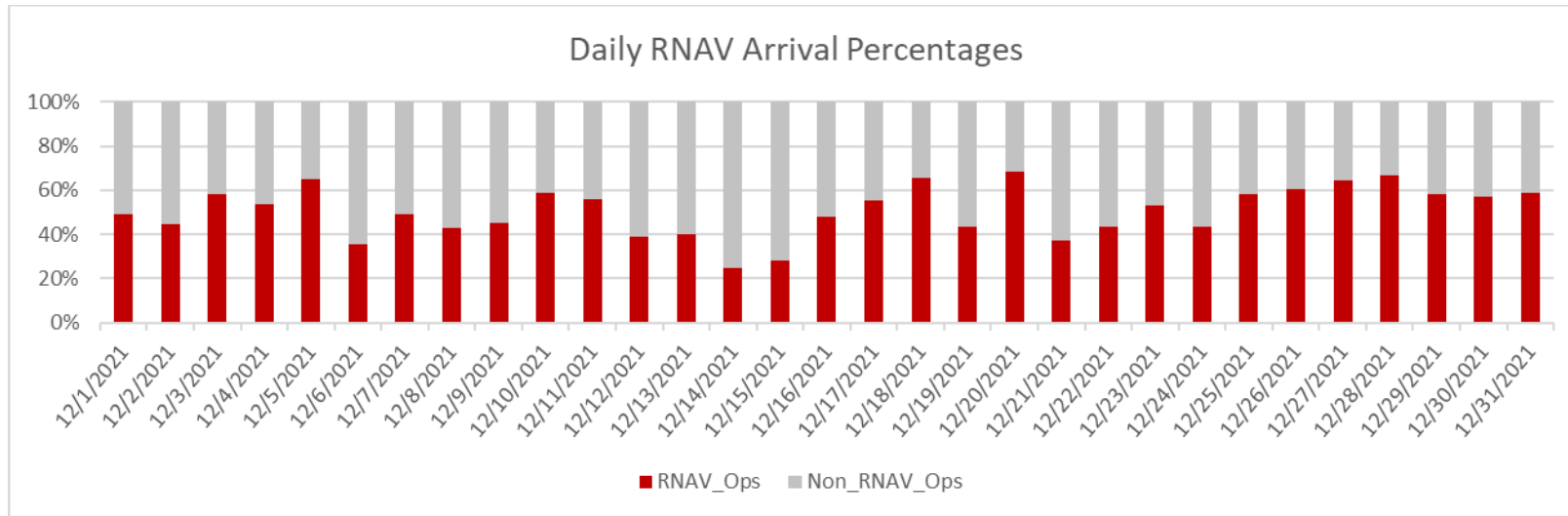
East Flow Runway Use



West Flow Runway Use



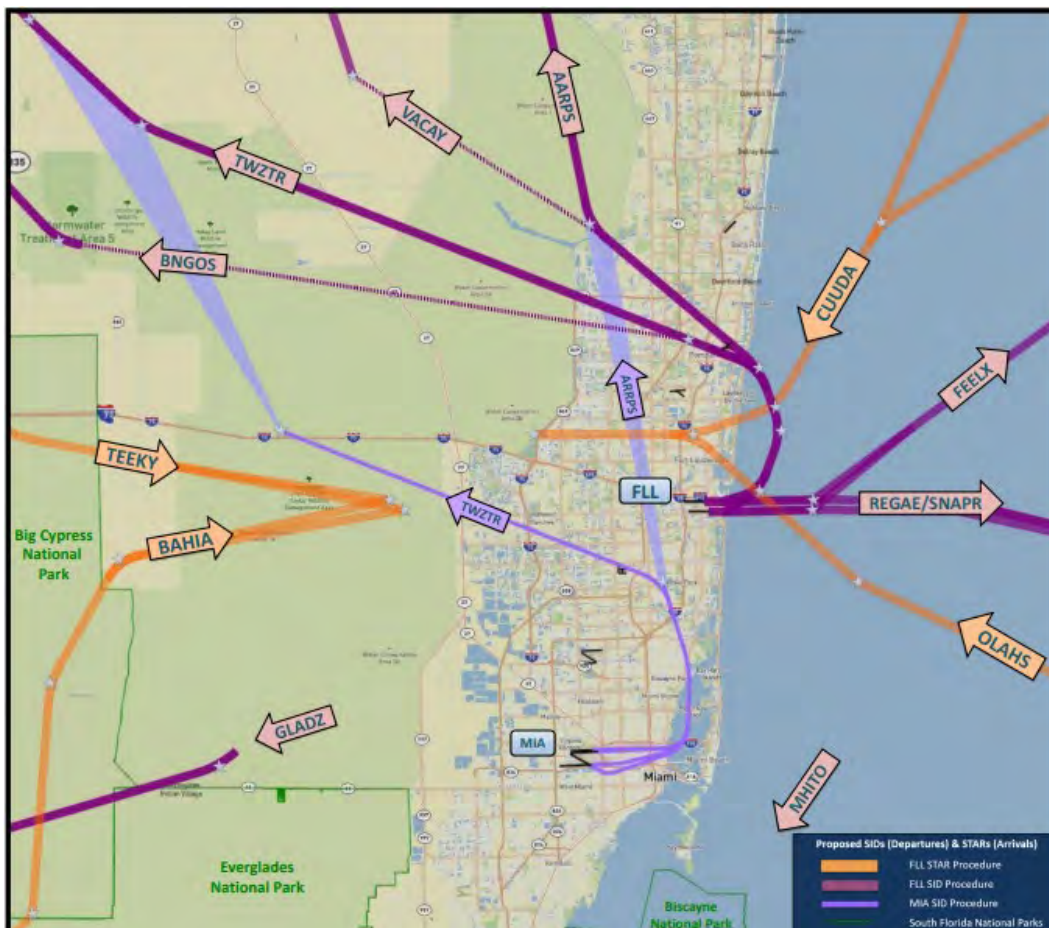
Arrival and Departure Daily RNAV Percentages



FLL RNAV East Flow Operations

Monthly RNAV Use Summary

FAA South-Central Florida Public Workshop 2020 Community Engagement Board



STARS | Arrivals

Procedure Name	# of Operations
BAHIA	141
CUUDA	614
OLAHS	164
TEEKY	1471

54%

SIDS | Departures

Procedure Name	# of Operations
AARPS	677
BNGOS	332
FEELX	1807
GLADZ	57
MHITO	70
REGAE	383
SNAPR	544
TWZTR/HURCN	369
VACAY	187

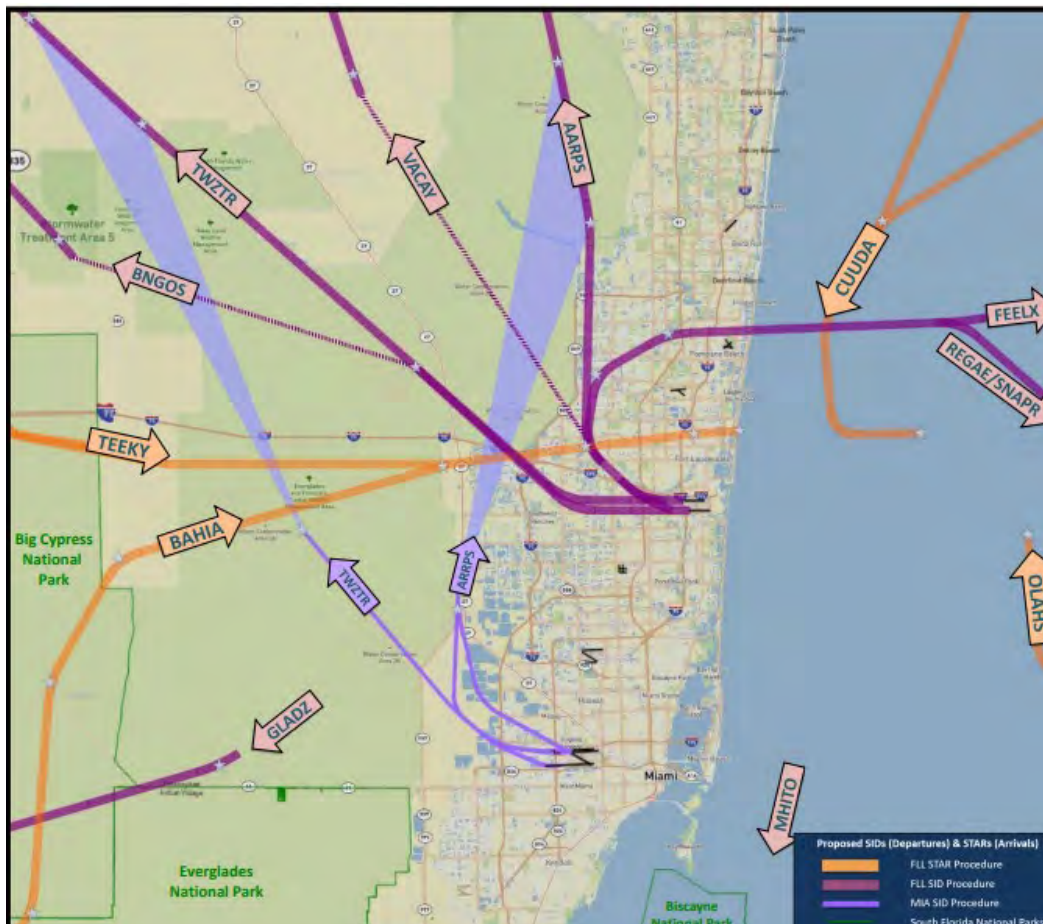
70%

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.

FLL RNAV West Flow Operations

Monthly RNAV Use Summary

FAA South-Central Florida Public Workshop 2020 Community Engagement Board



STARS | Arrivals

Procedure Name	# of Operations
BAHIA	40
CUUDA	57
OLAHS	9
TEEKY	172

39%



SIDS | Departures

Procedure Name	# of Operations
AARPS	299
BNGOS	62
FEELX	282
GLADZ	0
MHITO	54
REGAE	19
SNAPR	0
TWZTR/HURCN	104
VACAY	124

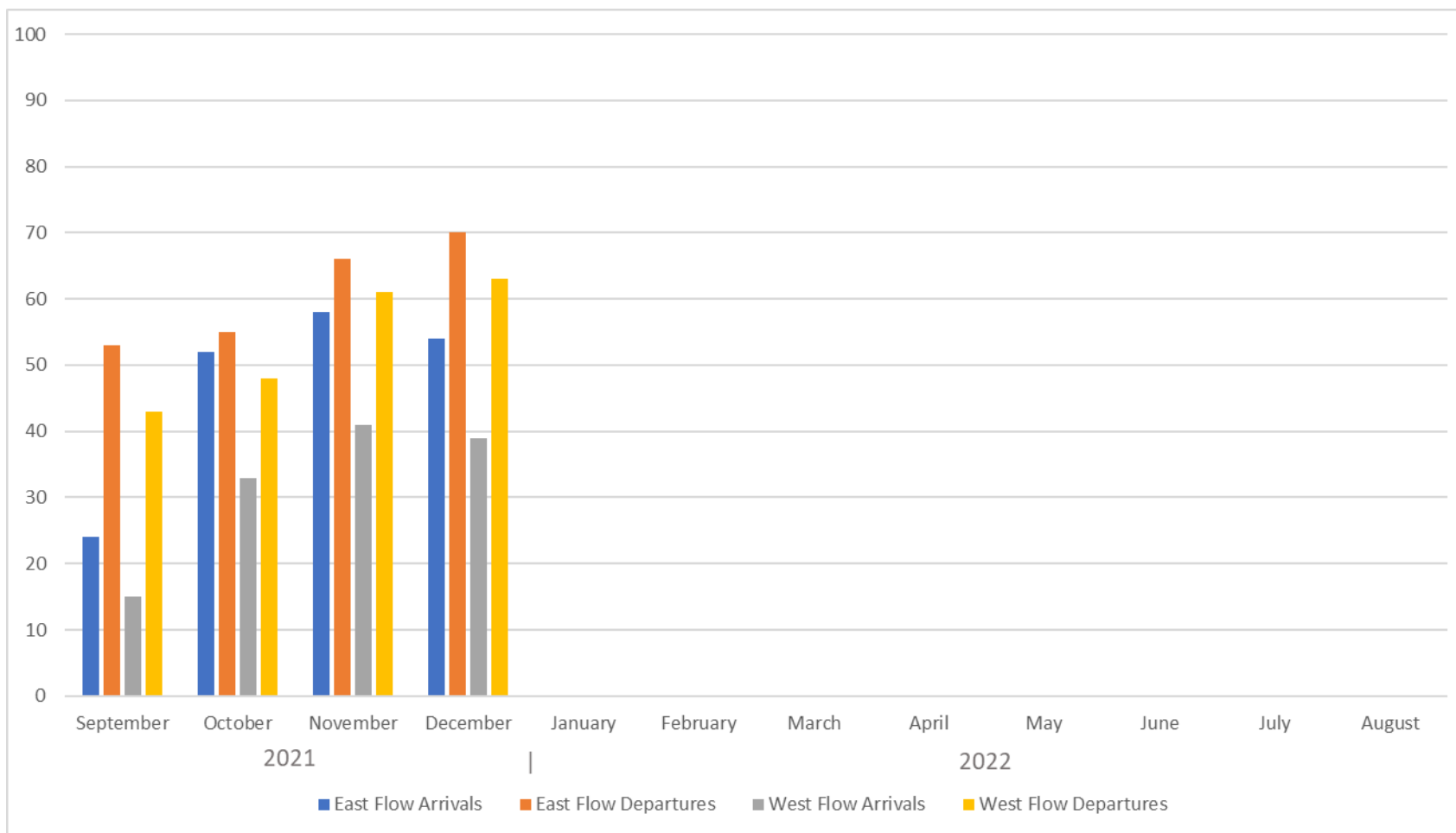
63%



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.

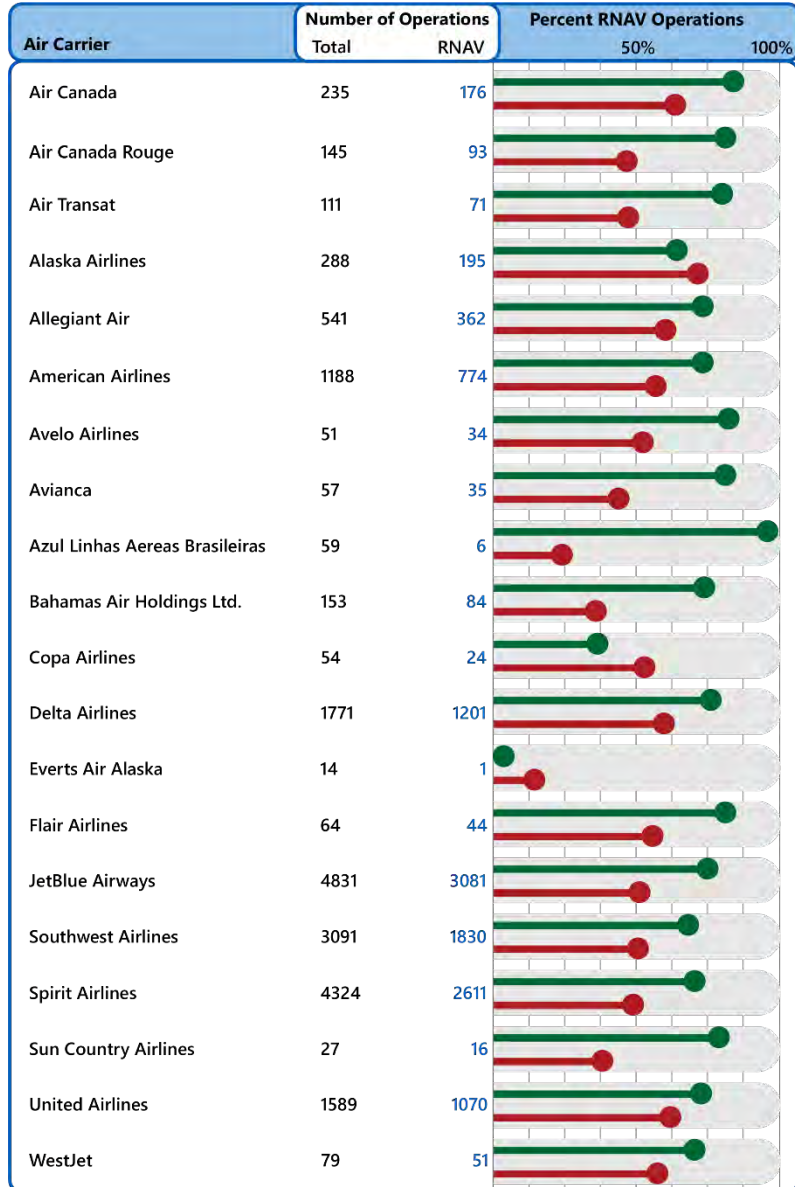
Monthly East and West Flow RNAV Percentages

December 2021



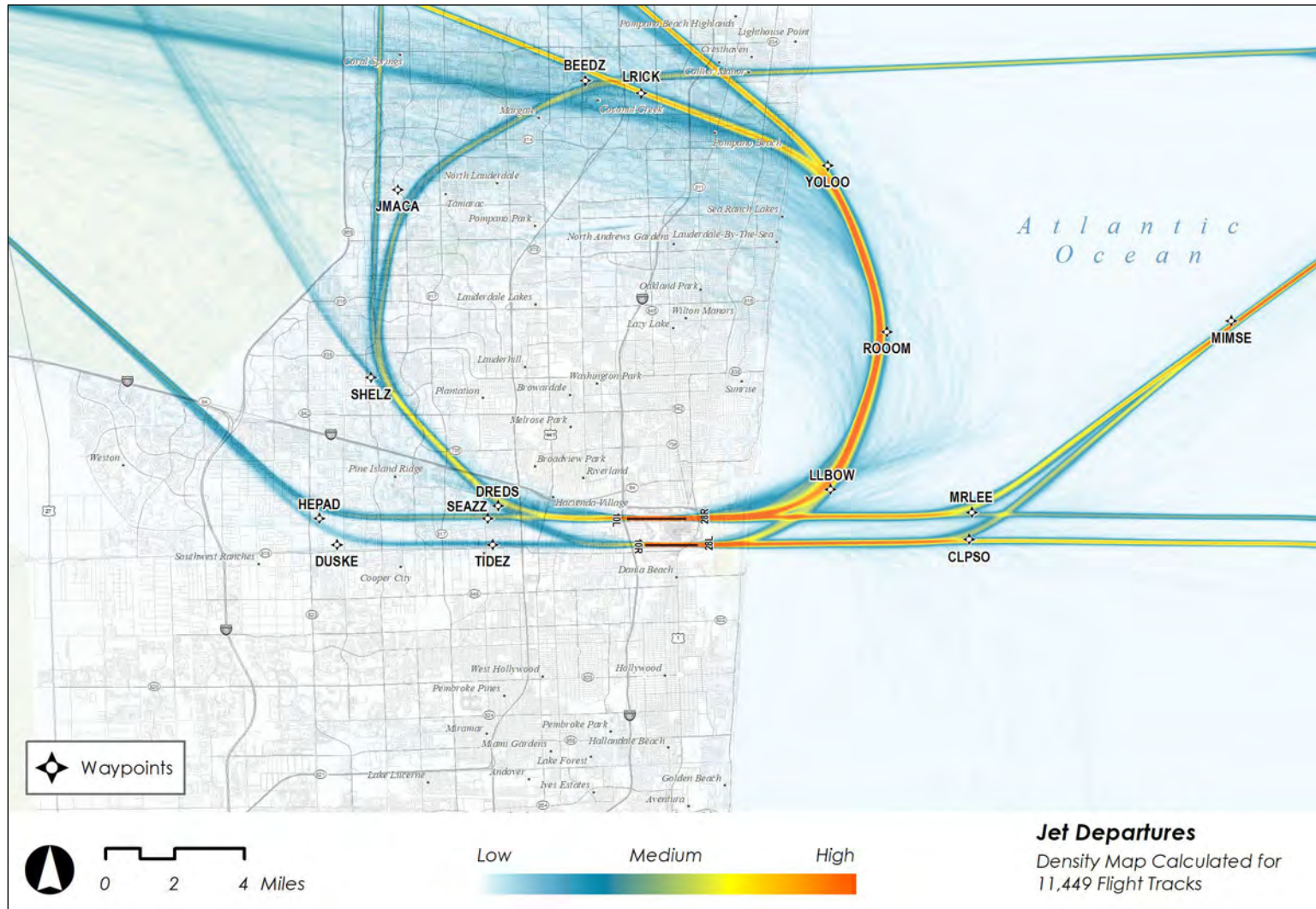
Monthly RNAV Use by Operator

December 2021



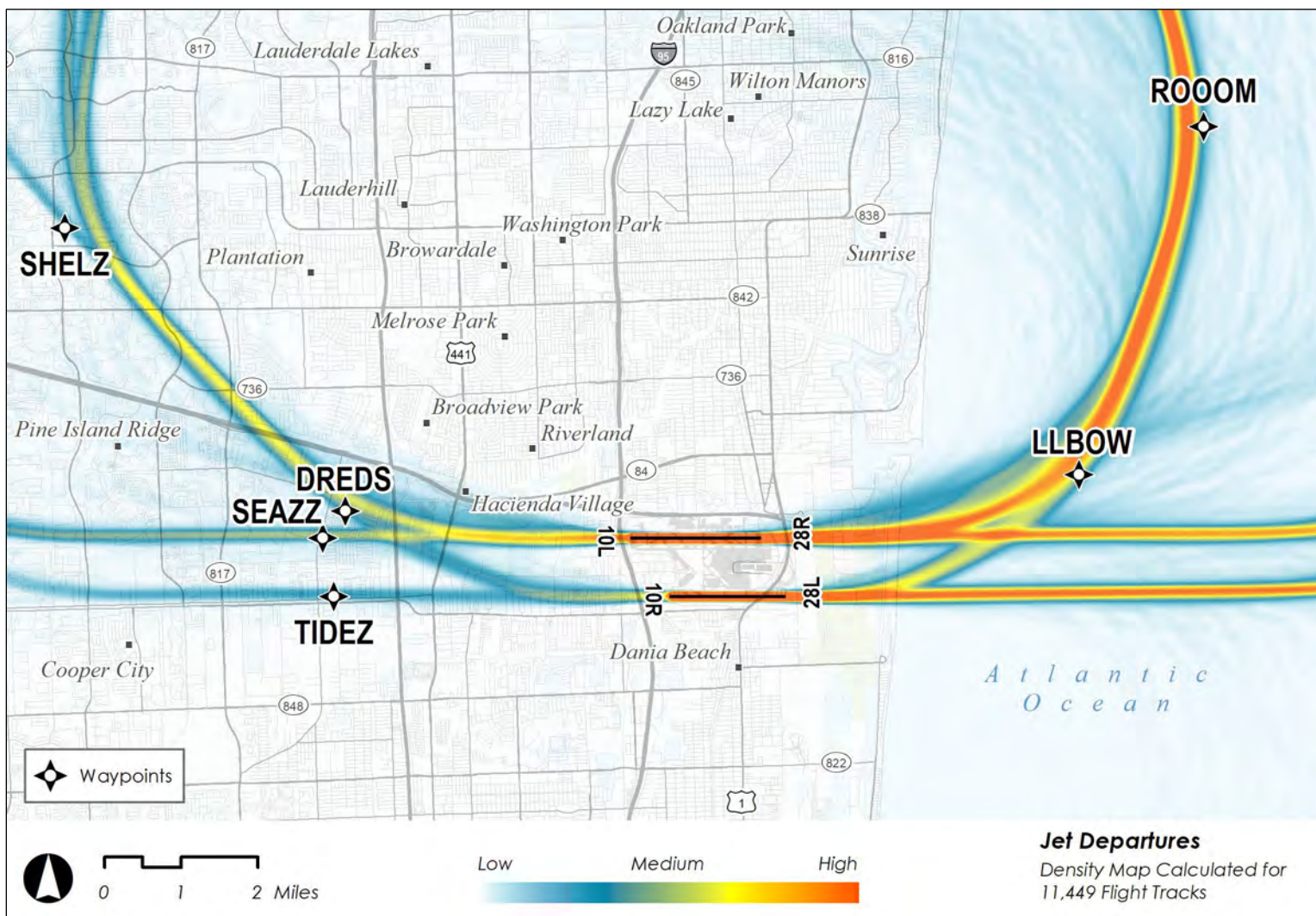
Relative Airspace Density

For All Jet Departures
 December 2021



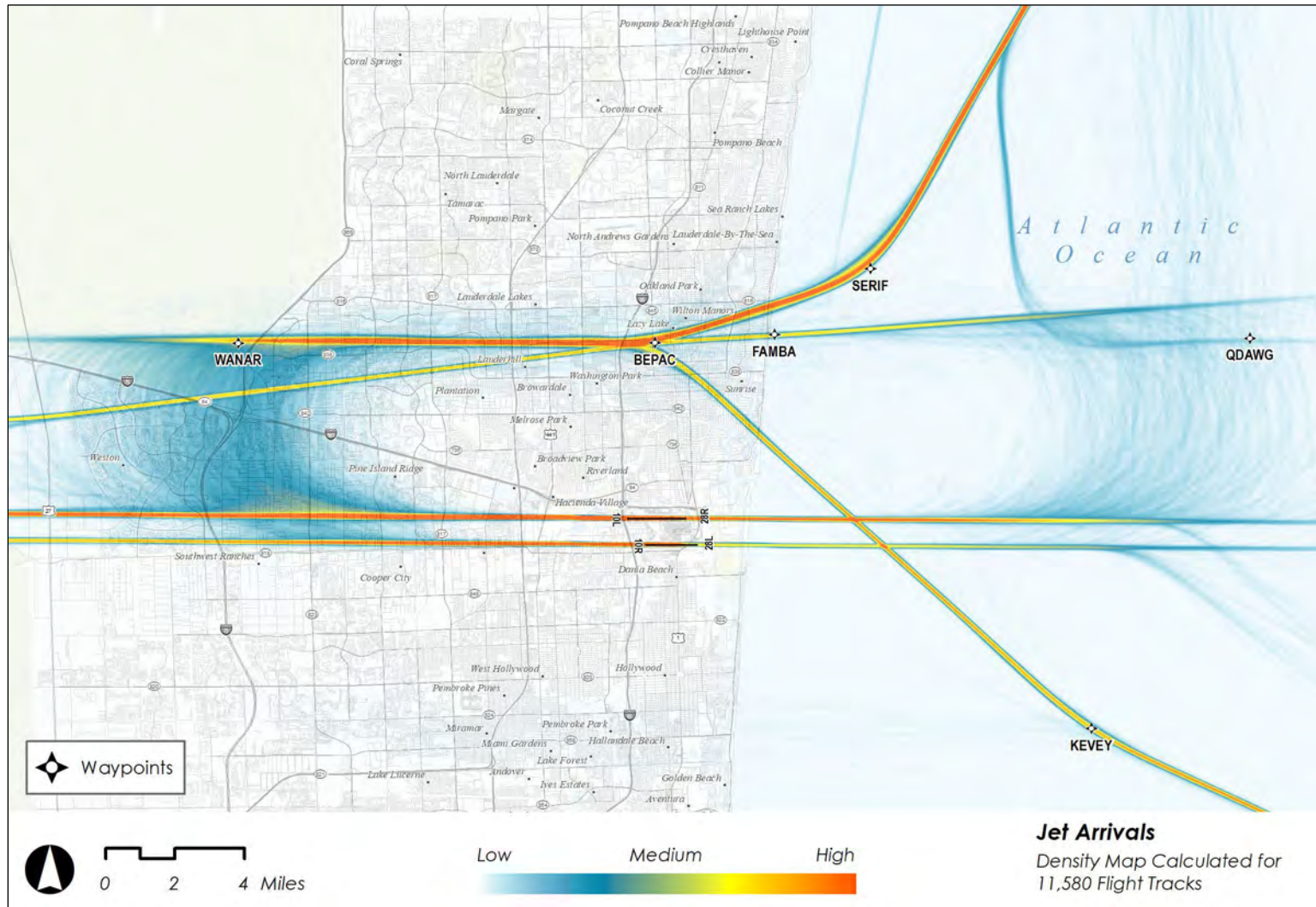
Relative Airspace Density

For All Jet Departures
 December 2021



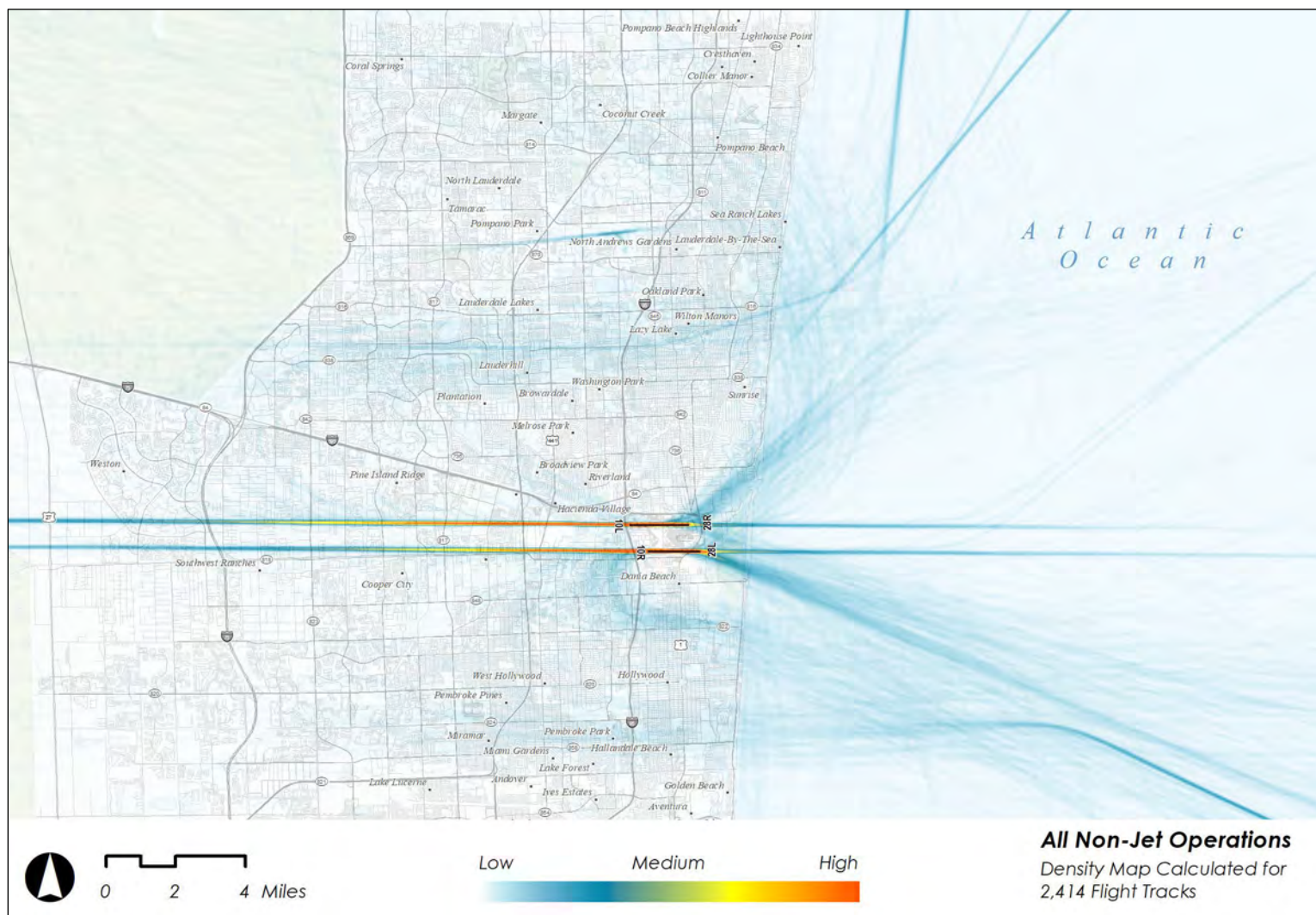
Relative Airspace Density

For All Jet Arrivals
 December 2021



Relative Airspace Density

For All Non-Jet Arrival and Departures
 December 2021



Appendix

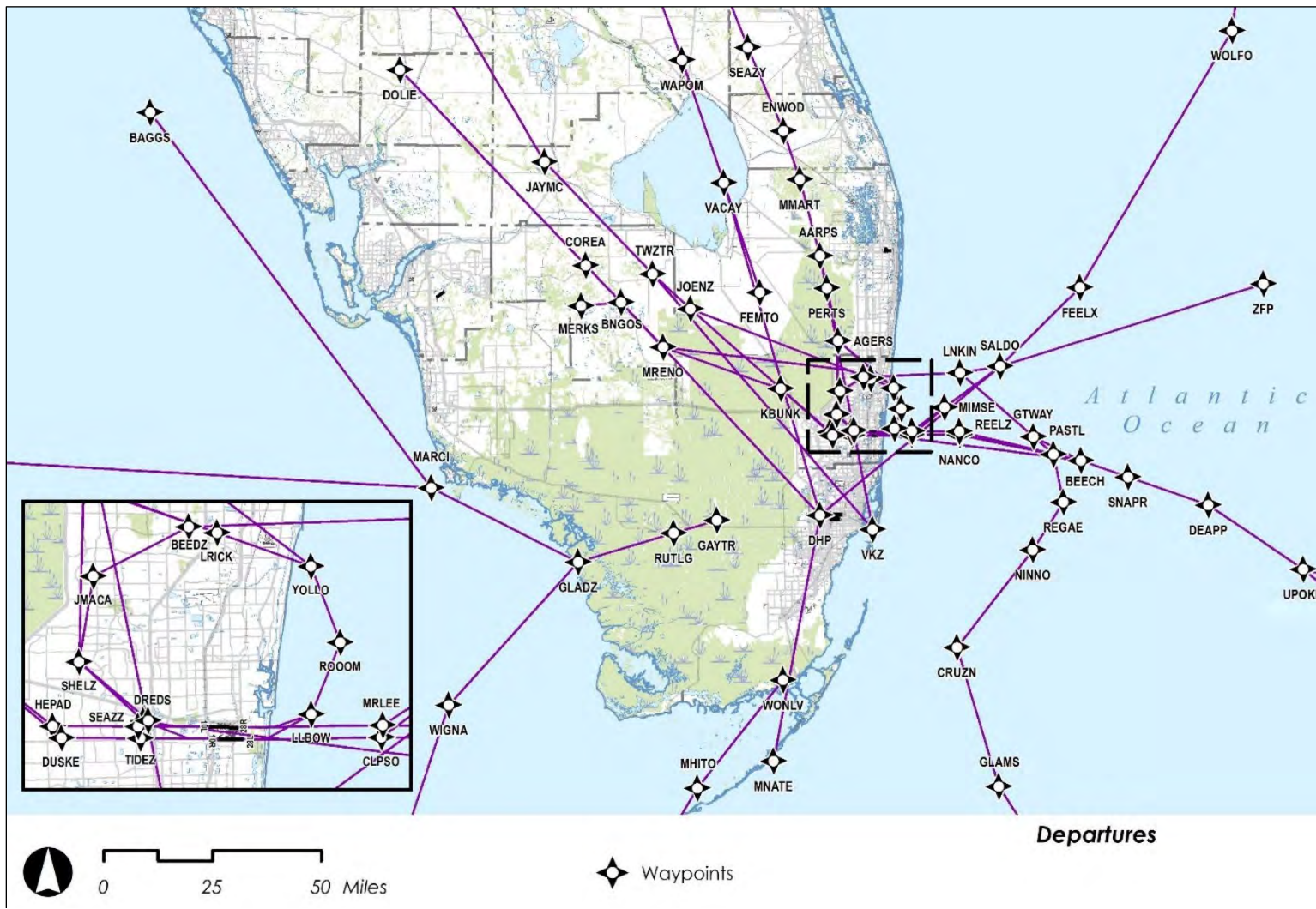
South-Central Florida Metroplex FLL Arrivals (STARS)



Source: http://www.metroplexenvironmental.com/fl_metroplex/fl_docs.html

Appendix

South-Central Florida Metroplex FLL Departures (SID)



Source: http://www.metroplexenvironmental.com/fl_metroplex/fl_docs.html

Appendix

South-Central Florida Metroplex Waypoints by Procedure

STARS | Arrivals

BAHIA: 10L/R: [FLICH+]-PYREX-HULKY-BAHIA-ADUBE-HOLID
BAHIA: 10R: PYREX-HULKY-BAHIA-ADUBE-BUNKR
BAHIA: 28L/R: PYREX-HULKY-BAHIA-ADUBE-FIPKO-BEPAC-FAMBA

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

OLAHS: 10L/R: [MAYKO+|DOPLY+|CIREX+]-OLAHS-WAVUN-KEVEY-BEPAC-WANAR
OLAHS: 28L/R: [MAYKO+|DOPLY+|CIREX+]-OLAHS-WAVUN-CRNVL

TEEKY: 10L: [DANNA+|INKES+]-YANCI-TEEKY-BANTY-HEEZE-HOLID
TEEKY: 10R: [DANNA+|INKES+]-YANCI-TEEKY-BANTY-HEEZE-BUNKR
TEEKY: 28L/R: [DANNA+|INKES+]-YANCI-TEEKY-BANTY-HEEZE-GOYLE-BEPAC-FAMBA

SIDS | Departures

AARPS: 10L/R: LLBOW-ROOOM-YOLOO-AGERS-PERTS-AARPS-MMART-ENWOD-SEAZY
AARPS: 28L/R: DREDS-SHELZ-AGERS-PERTS-AARPS-MMART-ENWOD-SEAZY

BNGOS: 10L/R: LLBOW-ROOOM-YOLOO-LRICK-MRENO-BNGOS-COREA-DOLIE
BNGOS: 28L: TIDEZ-DUSKE-KBUNK-MRENO-BNGOS-COREA-DOLIE
BNGOS: 28R: SEAZZ-HEPAD-KBUNK-MRENO-BNGOS-COREA-DOLIE

FEELX: 10L: MRLEE-MIMSE-MIDNT-FEELX-WOLFO
FEELX: 10R: CLPSO-MIMSE-MIDNT-FEELX-WOLFO
FEELX: 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-MIDNT-FEELX-WOLFO

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

MHITO: 10L: MRLEE-WONLV-MHITO
MHITO: 10R: CLPSO-WONLV-MHITO
MHITO: 28L: TIDEZ-WONLV-MHITO
MHITO: 28R: SEAZZ-WONLV-MHITO

REGAE: 10L: MRLEE-REELZ-PASTL-REGAE-NINNO-CRUZN-GLAMS
REGAE: 10R: CLPSO-CUDEL-PASTL-REGAE-NINNO-CRUZN-GLAMS
REGAE: 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-GTWAY-PASTL-REGAE-NINNO-CRUZN-GLAMS

SNAPR: 10L: MRLEE-REELZ-BEECH-SNAPR-DEAPP-UPOKE
SNAPR: 10R: CLPSO-CUDEL-BEECH-SNAPR-DEAPP-UPOKE
SNAPR: 28L/R: DREDS-SHELZ-JMACA-BEEDZ-LNKIN-GTWAY-BEECH-SNAPR-DEAPP-UPOKE

TWZTR/HURCN: 10L/R: LLBOW-ROOOM-YOLOO-JONEZ-HURCN-JAYMC
TWZTR/HURCN: 28L: TIDEZ-DUSKE-KBUNK-JONEZ-HURCN-JAYMC
TWZTR/HURCN: 28R: SEAZZ-HEPAD-KBUNK-JONEZ-HURCN-JAYMC

VACAY: 10L/R: LLBOW-ROOOM-YOLOO-AGERS-FEMTO-VACAY-WAPOM
VACAY: 28L/R: DREDS-SHELZ-FEMTO-VACAY-WAPOM

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

Appendix

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.