

WELCOME

PUBLIC INFORMATION WORKSHOP

South-Central Florida Metroplex

FEDERAL AVIATION ADMINISTRATION

Welcome

Welcome to the FAA's Workshop on the
South-Central Florida Metroplex.

The designs you will see tonight are preliminary.
We welcome your input.

You may provide your comments tonight in writing,
or you may leave your comments at this website:

[https://www.faa.gov/nextgen/nextgen_near_you/
community_involvement/florida/](https://www.faa.gov/nextgen/nextgen_near_you/community_involvement/florida/)

Environmental Study Process

Consideration of a Proposed Action under the National Environmental Policy Act (NEPA)

NEPA requires that the FAA evaluate the environmental and related social and economic effects of a proposed action.

Preliminary Technical Review

FAA conducts an internal technical review before deciding to consider moving forward with an environmental review.

Preliminary Environmental Review

FAA conducts an internal environmental review to evaluate any potential environmental concerns.

Internal Review and choice of appropriate level of NEPA review

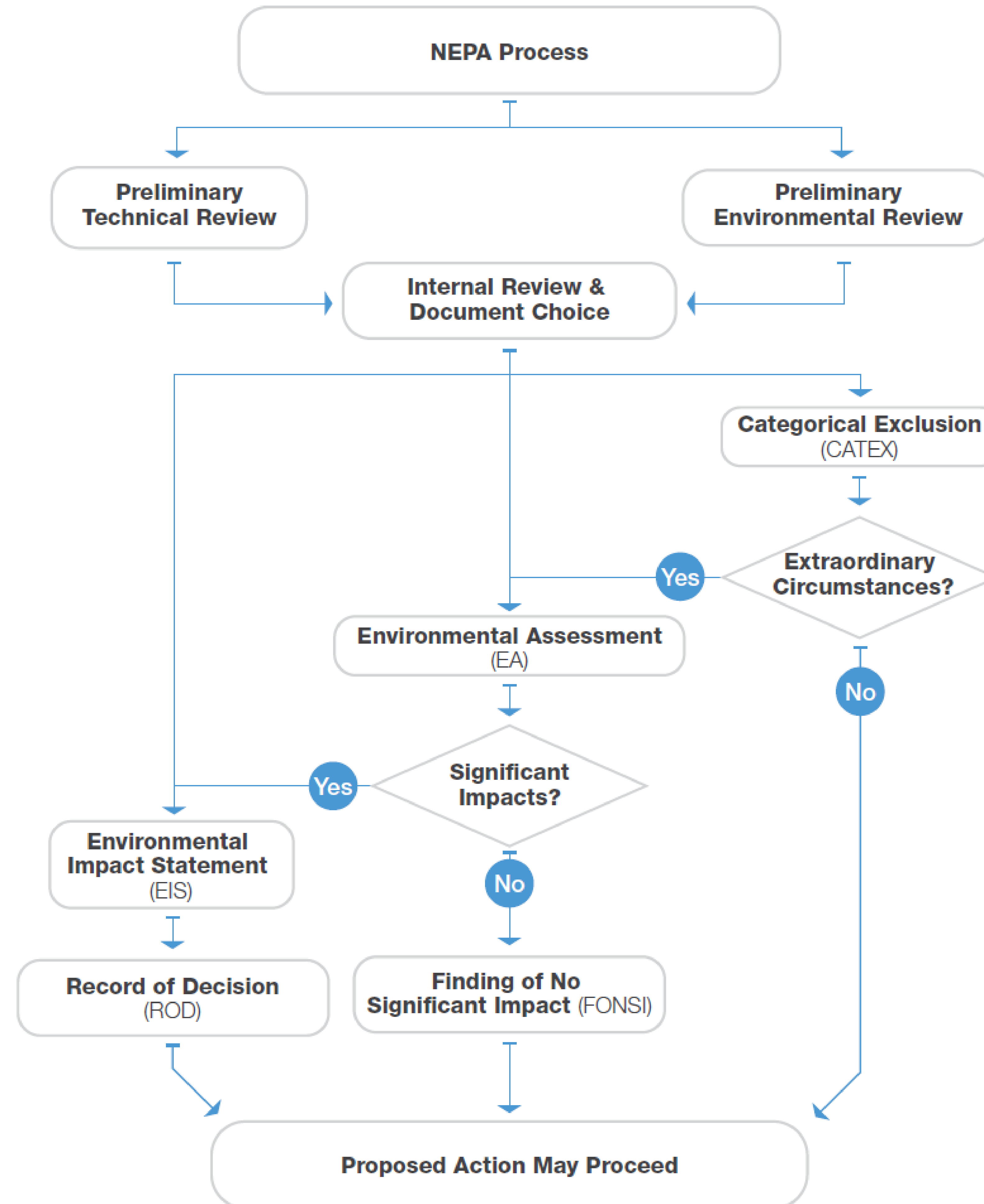
Internal analysis such as the noise screening reports as well as input from the public are used to assist the FAA in determining the appropriate level of NEPA review to conduct.

Extraordinary Circumstances

Paragraph 5-2 of FAA Order 1050.1F identifies the range of factors which define Extraordinary Circumstances.

Significant Impacts

The FAA uses thresholds that serve as specific indicators of significant impact for some environmental impact categories. FAA proposed actions that would result in impacts at or above these thresholds require the preparation of an EIS, unless impacts can be reduced below threshold levels.



Project Goals

WHAT DOES THIS PROJECT HOPE TO ACHIEVE?

Take advantage of Performance Based Navigation by implementing procedures that will help enhance the safety and efficiency of the airspace.

Provide deconfliction of arrivals and departures for airports in close proximity to one another, allowing for independent operations at each airport.

Reduce conflicts in routes between Florida airports, and in routes connecting Florida to other national and international destinations.

Improve air traffic flow and efficiency, in order to keep pace with the growth in aviation and tourism in Florida.

WHY ARE WE DOING THIS PROJECT?

The existing departure and arrival procedures do not take full advantage of modern technology. The project will replace outdated systems with satellite-based technology.

Improve the predictability of air traffic flows to enhance safety and efficiency while reducing the workload for air traffic controllers and pilots.

Reduce airspace constraints associated with restricted military airspace, general aviation operations, space vehicle launches, and drones.

Provide environmental benefits by reducing carbon emissions and aircraft fuel consumption.

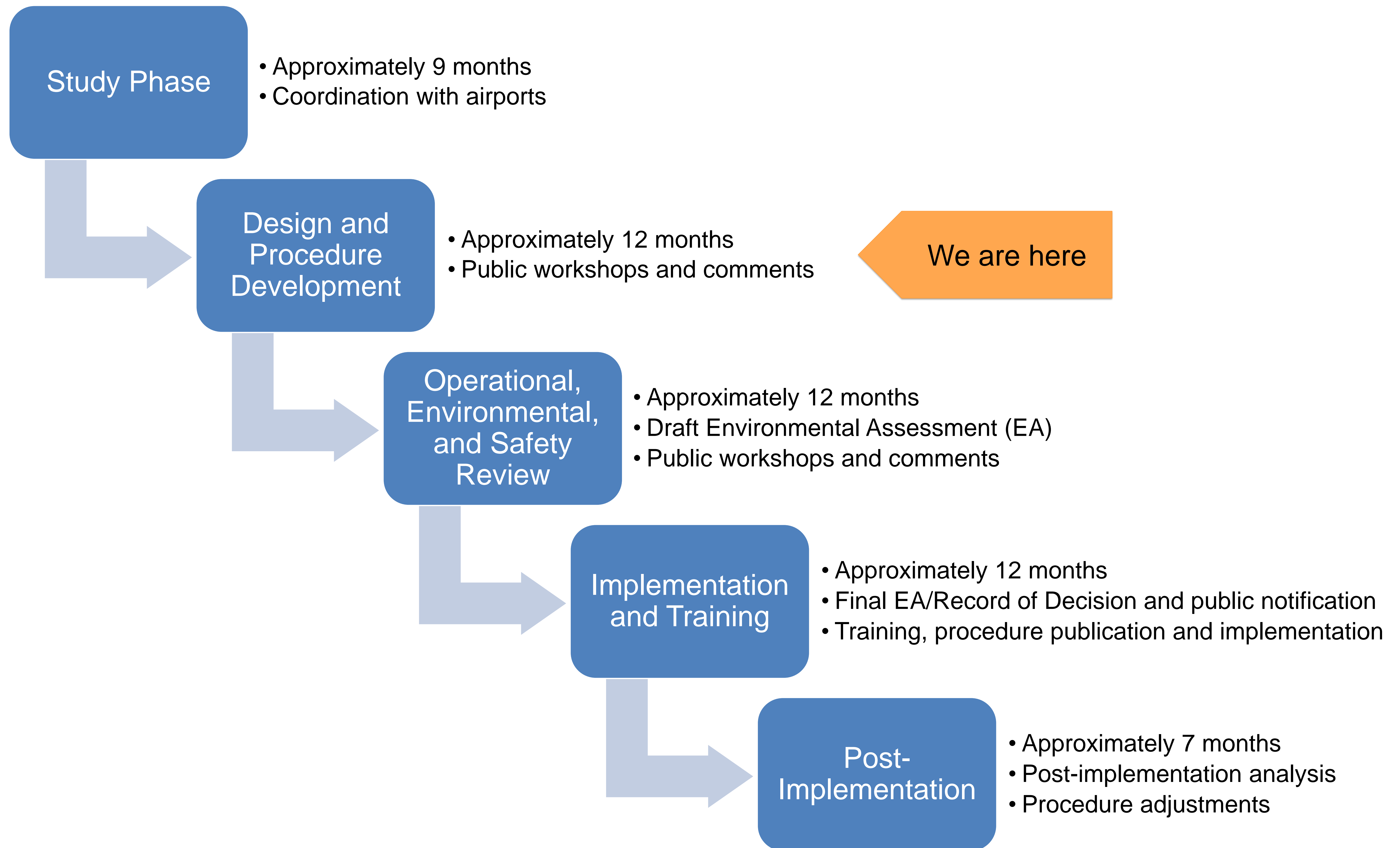
TERMINOLOGY

RNAV
Area Navigation

SID
Standard Instrument Departure

STAR
Standard Terminal Arrival Route

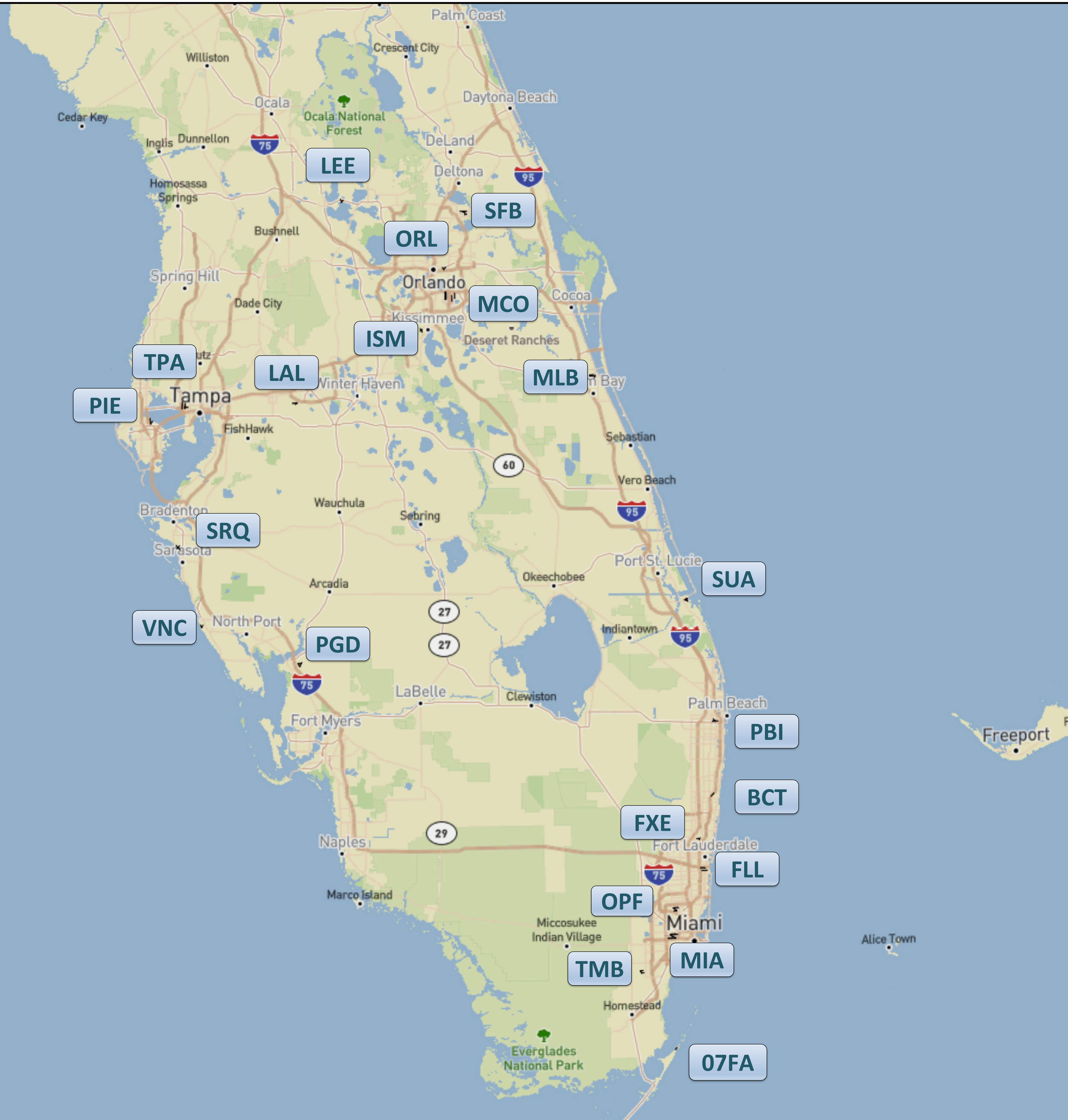
Metroplex Project Phases





Metroplex Study Area Overview Map

- Overview of the 21 airports included in the Metroplex





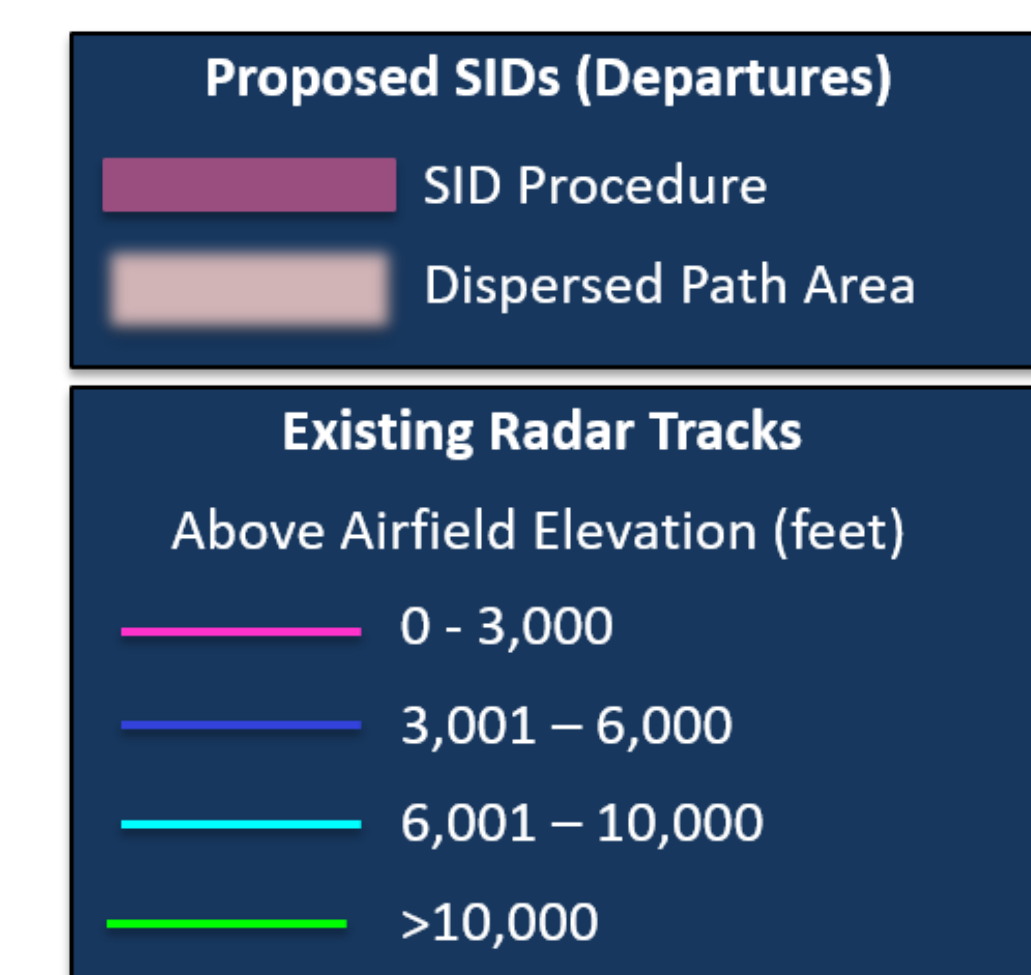
Area Navigation (RNAV) Standard Instrument Departures (SIDs)

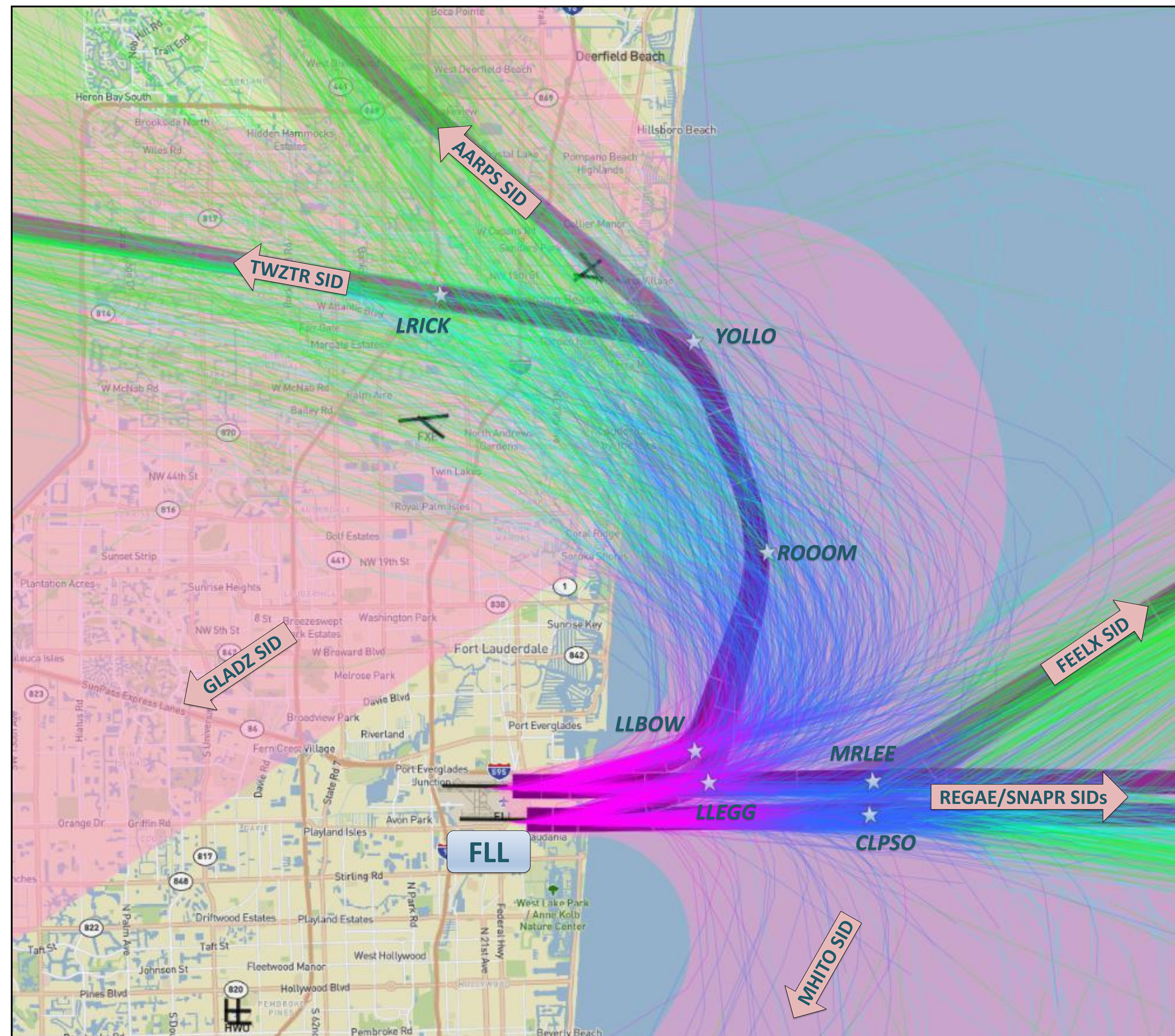
AARPS ONE
GLADZ ONE
REGAE ONE
TWZTR ONE

FEELX ONE
MHITO ONE
SNAPR ONE

East Flow Full View

- Jet aircraft departing to the east from FLL would follow these Standard Instrument Departures (SIDs)
 - + MHITO and GLADZ SID departures would initially depart navigating via the SID but would be vectored by ATC after departure
 - + The proposed GLADZ SID would be used primarily for departures landing in Cuba, Key West, and Mexico
- Air Traffic Controllers (ATC) may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018





FLL Fort Lauderdale—Hollywood
International Airport

**Area Navigation (RNAV)
Standard Instrument Departures
(SIDs)**

AARPS ONE	FEELX ONE
GLADZ ONE	MHITO ONE
REGAE ONE	SNAPR ONE
TWZTR ONE	

East Flow Close View

- Jet aircraft departing to the east from FLL would follow these Standard Instrument Departures (SIDs)
 - + MHITO and GLADZ SID departures would initially depart navigating via the SID but would be vectored by ATC after departure
 - + The proposed GLADZ SID would be used primarily for departures landing in Cuba, Key West, and Mexico
- Air Traffic Controllers (ATC) may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

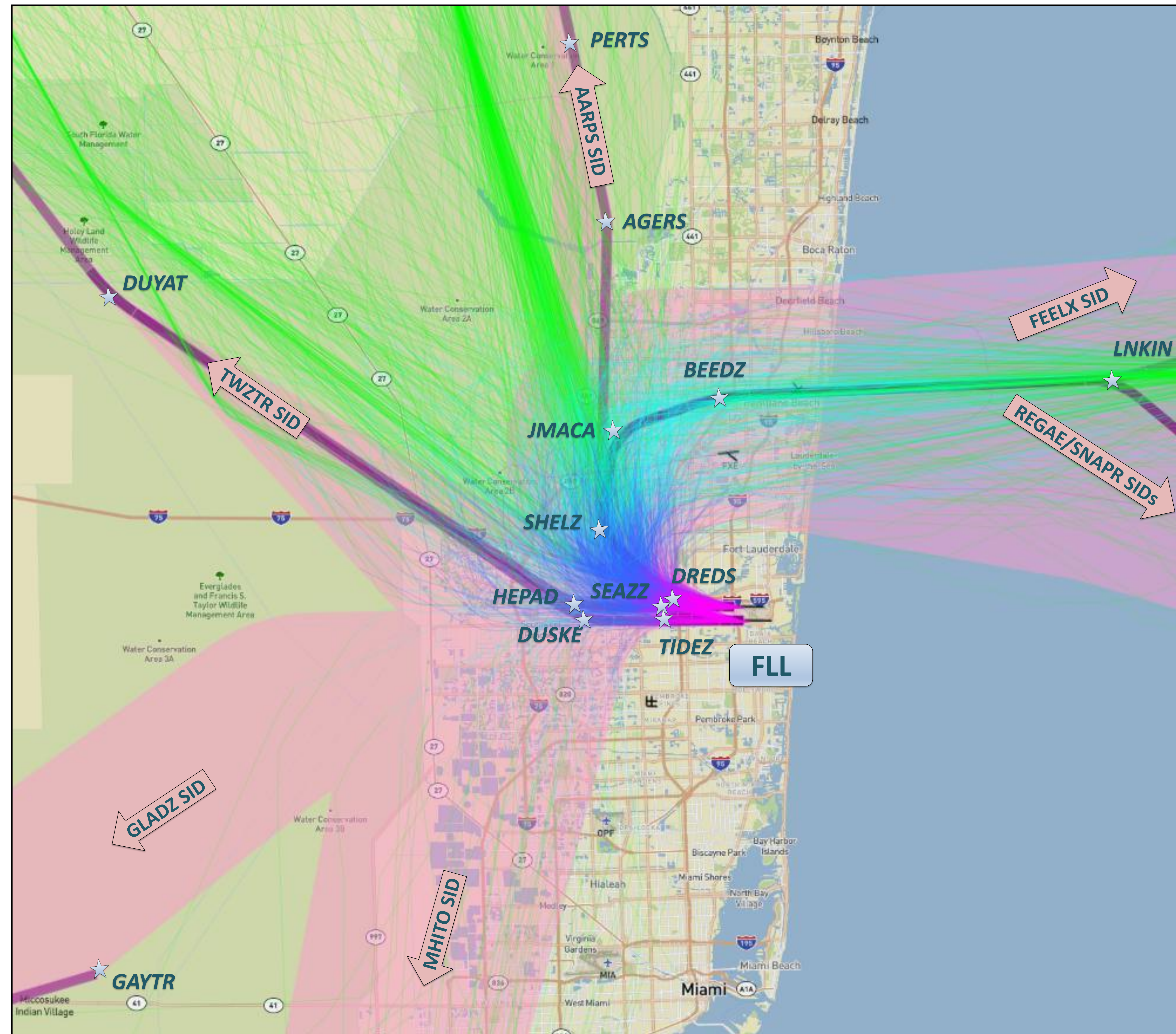
Proposed SIDs (Departures)

	SID Procedure
	Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

	0 - 3,000
	3,001 - 6,000
	6,001 - 10,000
	>10,000



FLL Fort Lauderdale—Hollywood International Airport

**Area Navigation (RNAV)
Standard Instrument Departures
(SIDs)**

AARPS ONE
GLADZ ONE
REGAE ONE
TWZTR ONE

FEELX ONE
MHITO ONE
SNAPR ONE

West Flow Full View

- Jet aircraft departing to the west from FLL would follow these Standard Instrument Departures (SIDs)
 - + MHITO and GLADZ SID departures would initially depart navigating via the SID but would be vectored by ATC after departure
 - + The proposed GLADZ SID would be used primarily for departures landing in Cuba, Key West, and Mexico
- Air Traffic Controllers (ATC) may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

Proposed SIDs (Departures)

SID Procedure
 Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

0 - 3,000
 3,001 - 6,000
 6,001 - 10,000
 >10,000



FLL Fort Lauderdale—Hollywood
International Airport

**Area Navigation (RNAV)
Standard Instrument Departures
(SIDs)**

AARPS ONE	FEELX ONE
GLADZ ONE	MHITO ONE
REGAE ONE	SNAPR ONE
TWZTR ONE	

West Flow Close View

- Jet aircraft departing to the west from FLL would follow these Standard Instrument Departures (SIDs)
 - + MHITO and GLADZ SID departures would initially depart navigating via the SID but would be vectored by ATC after departure
 - + The proposed GLADZ SID would be used primarily for departures landing in Cuba, Key West, and Mexico
- Air Traffic Controllers (ATC) may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

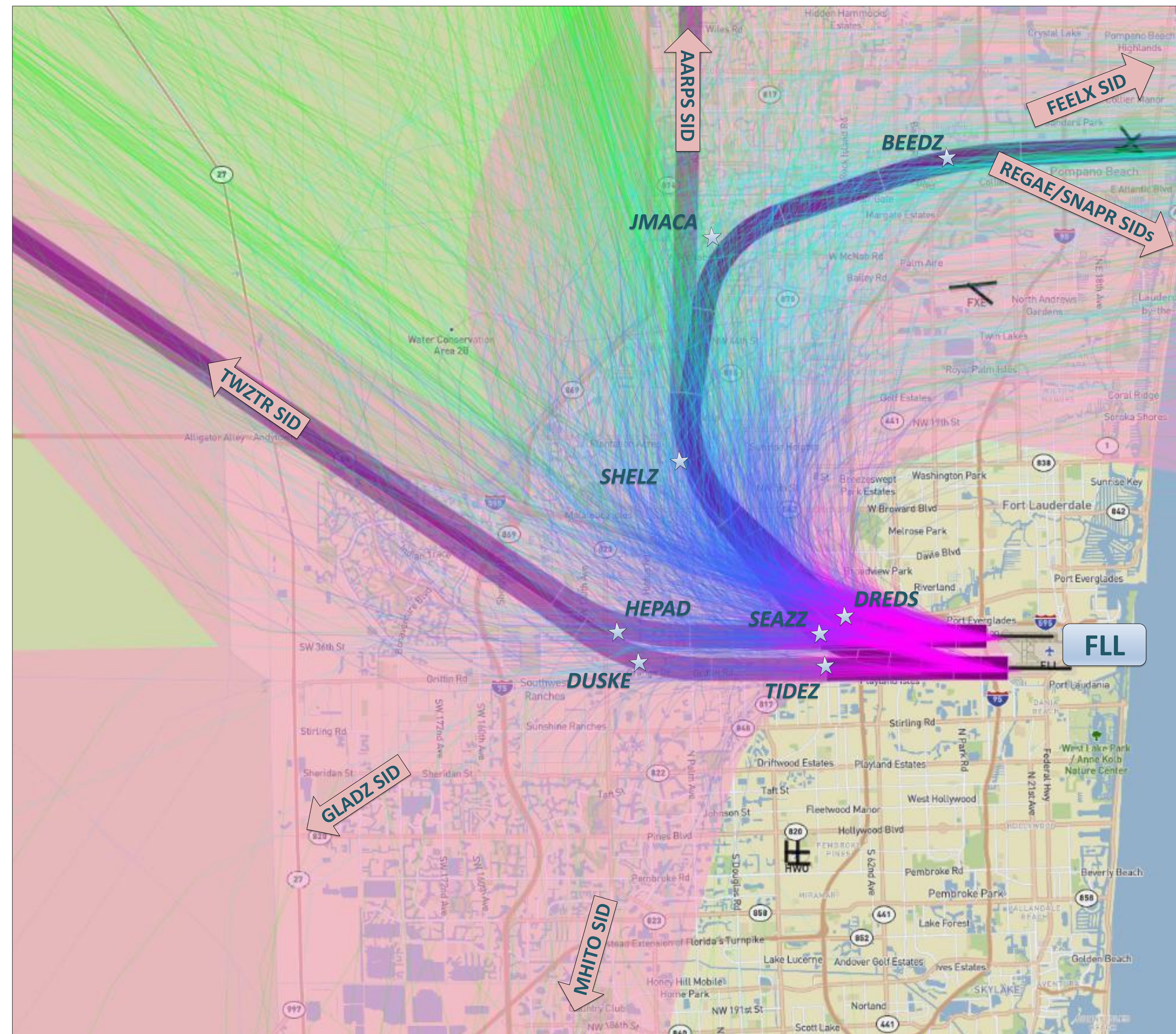
Proposed SIDs (Departures)

	SID Procedure
	Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

	0 - 3,000
	3,001 – 6,000
	6,001 – 10,000
	>10,000





FLL Fort Lauderdale—Hollywood International Airport

Area Navigation (RNAV)
Standard Terminal Arrivals (STARs)
BAHIA ONE **CUUDA ONE**
OLAHS ONE **TEEKY ONE**

East Flow Full View

- Jet aircraft landing to the east at FLL follow Standard Terminal Arrival (STAR) routes
- Air Traffic Controllers (ATC) may assign alternate runways for operational needs. Expected use includes:
 - + CUUDA and OLAHS STARs would be sequenced into a single downwind flow north of FLL airport and arrive Runway 10L
 - + TEEKY STAR would arrive on Runway 10L
 - + BAHIA STAR would arrive Runway 10R
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

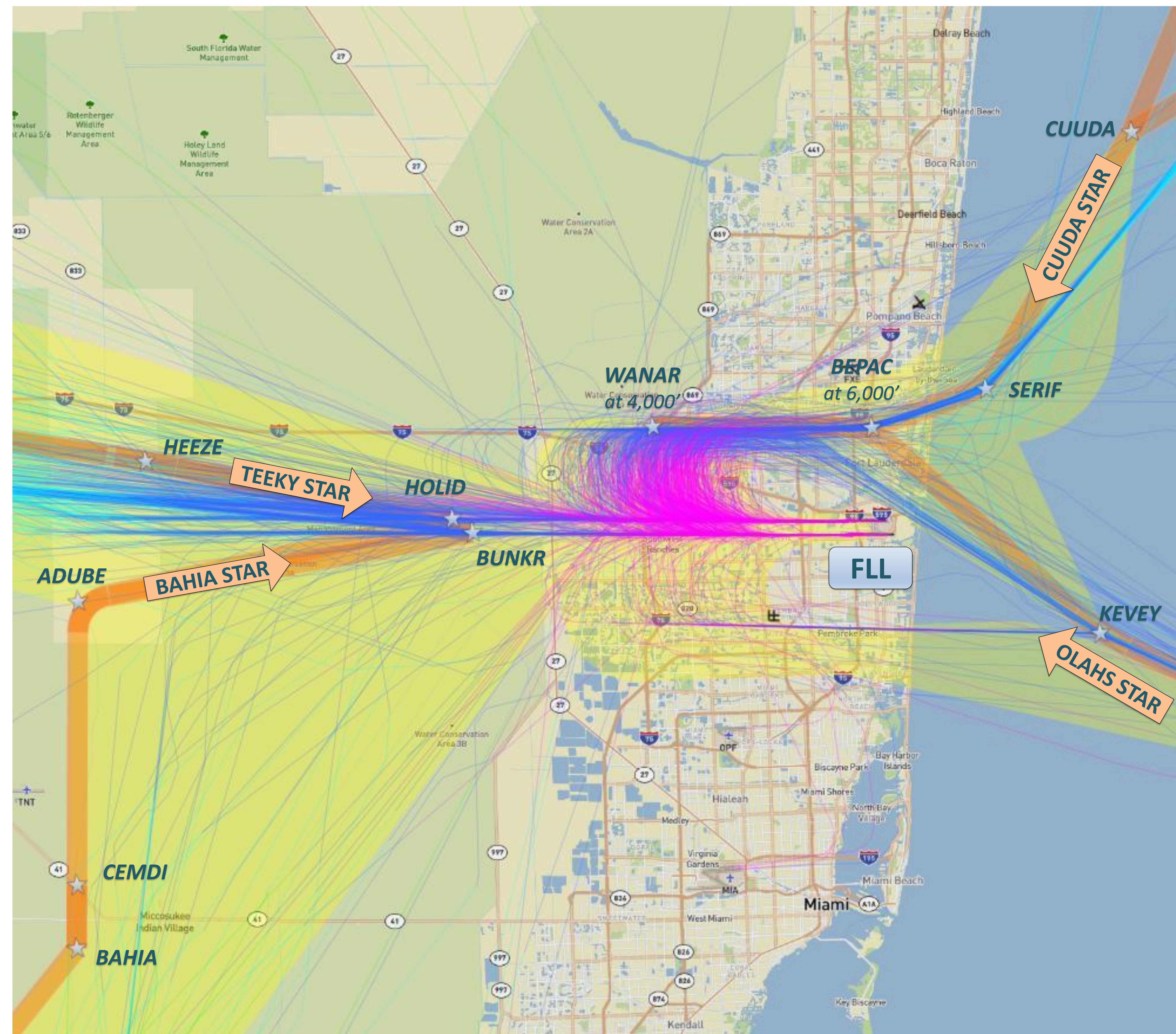
Proposed STARs (Arrivals)

- STAR Procedure
- Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

- 0 - 3,000
- 3,001 – 6,000
- 6,001 – 10,000
- >10,000



FLL Fort Lauderdale—Hollywood International Airport

Area Navigation (RNAV)
Standard Terminal Arrivals (STARs)
BAHIA ONE **CUUDA ONE**
OLAHS ONE **TEEKY ONE**

East Flow Close View

- Jet aircraft landing to the east at FLL follow Standard Terminal Arrival (STAR) routes
- Air Traffic Controllers (ATC) may assign alternate runways for operational needs. Expected use includes:
 - + CUUDA and OLAHS STARs would be sequenced into a single downwind flow north of FLL airport and arrive Runway 10L
 - + TEEKY STAR would arrive on Runway 10L
 - + BAHIA STAR would arrive Runway 10R
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

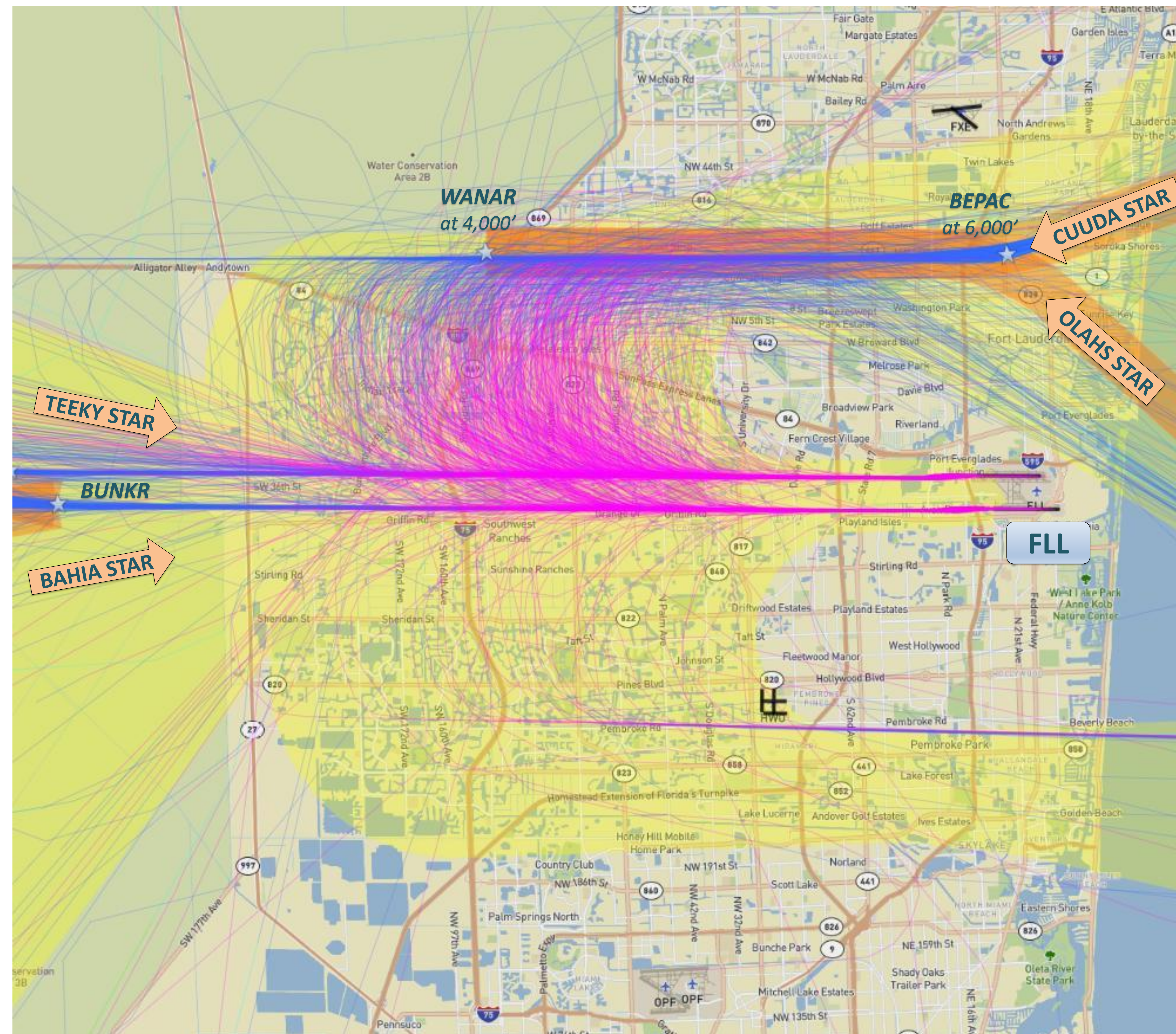
Proposed STARs (Arrivals)

- STAR Procedure
- Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

- 0 - 3,000
- 3,001 – 6,000
- 6,001 – 10,000
- >10,000





FLL Fort Lauderdale—Hollywood
International Airport

Area Navigation (RNAV)

Standard Terminal Arrivals (STARs)

BAHIA ONE

CUUDA ONE

OLAHS ONE

TEEKY ONE

West Flow Full View

- Jet aircraft landing to the west at FLL would follow Standard Terminal Arrival (STAR) routes
- Air Traffic Controllers (ATC) may assign alternate runways for operational needs. Expected use includes:
 - + CUUDA STAR arrivals would arrive Runway 28R
 - + OLAHS STARs arrivals would arrive runway 28L
 - + TEEKY and BAHIA STAR arrivals would be sequenced into a single downwind flow north of FLL airport and arrive Runway 28R
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

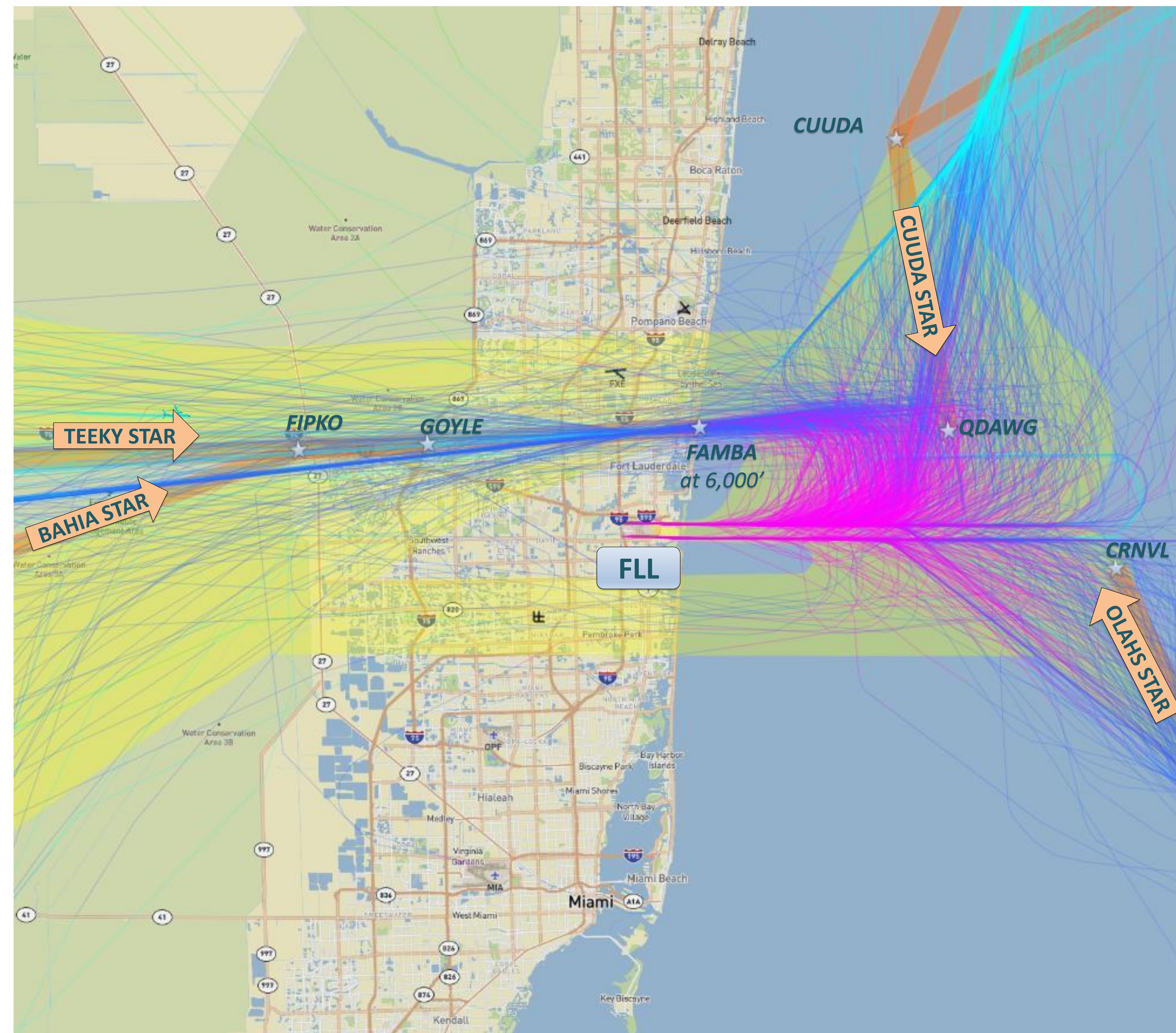
Proposed STARs (Arrivals)

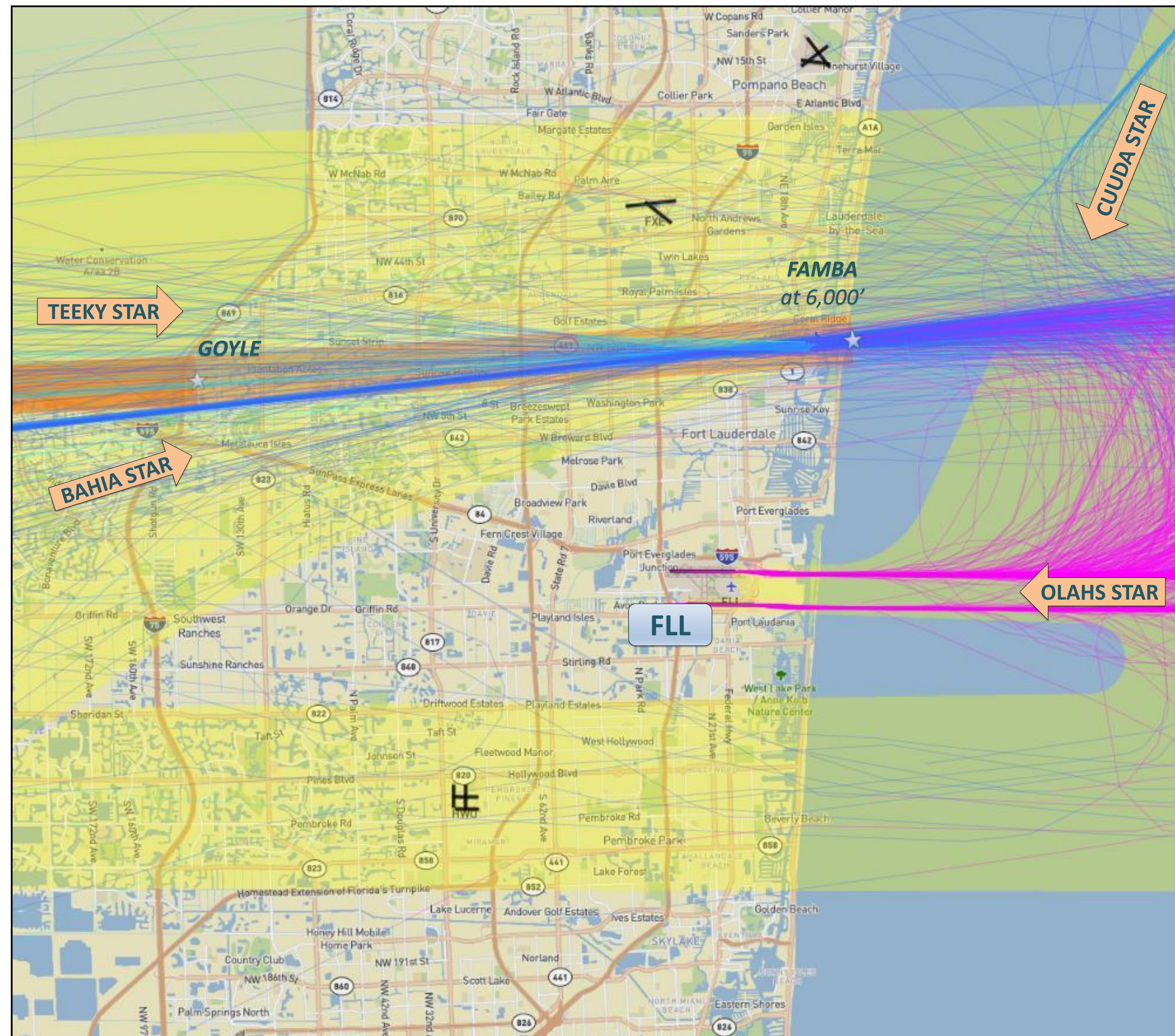
- STAR Procedure
- Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

- 0 - 3,000
- 3,001 - 6,000
- 6,001 - 10,000
- >10,000





FLL Fort Lauderdale—Hollywood International Airport

Area Navigation (RNAV)
Standard Terminal Arrivals (STARs)
BAHIA ONE **CUUDA ONE**
OLAHS ONE **TEEKY ONE**

West Flow Close View

- Jet aircraft landing to the west at FLL would follow Standard Terminal Arrival (STAR) routes
- Air Traffic Controllers (ATC) may assign alternate runways for operational needs. Expected use includes:
 - + CUUDA STAR arrivals would arrive Runway 28R
 - + OLAHS STARs arrivals would arrive runway 28L
 - + TEEKY and BAHIA STAR arrivals would be sequenced into a single downwind flow north of FLL airport and arrive Runway 28R
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety
- Radar track data are a sample from January to May 2018

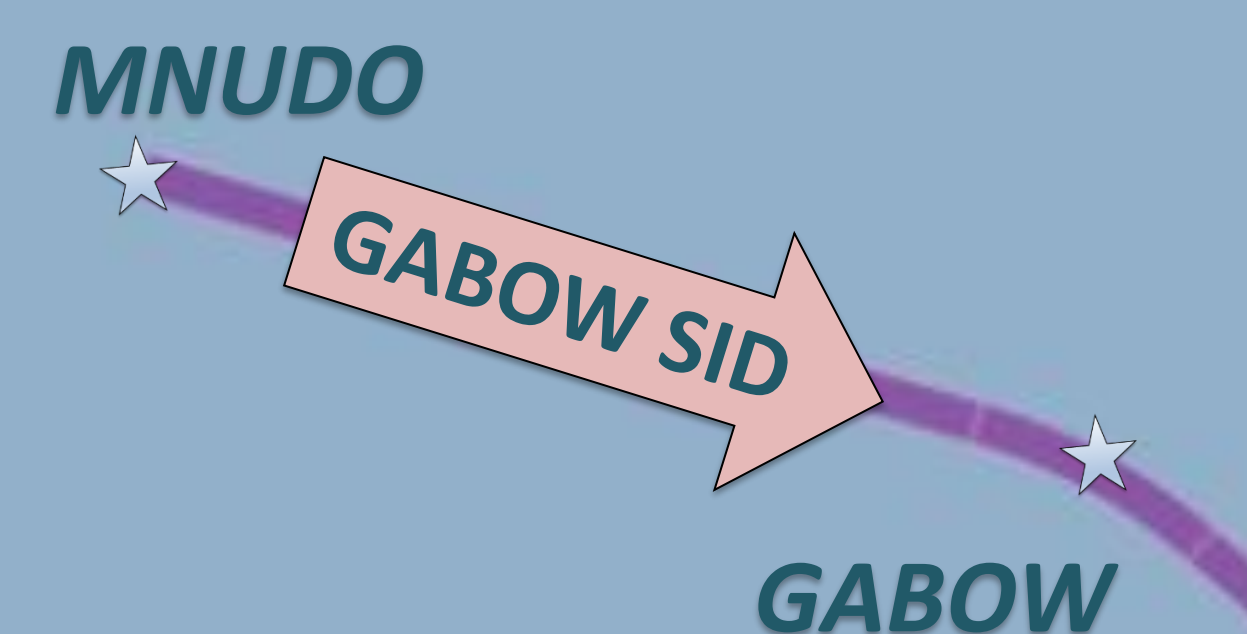
Proposed STARs (Arrivals)

- STAR Procedure
- Dispersed Path Area

Existing Radar Tracks

Above Airfield Elevation (feet)

- 0 - 3,000
- 3,001 - 6,000
- 6,001 - 10,000
- >10,000



Fort Lauderdale Executive Airport

Area Navigation (RNAV) Standard Instrument Departures (SIDs)

GABOW ONE

All Flows Full View

- Jet aircraft departing from FXE flying to the Caribbean and South America would fly this Standard Instrument Departure (SID)
- Departing jet aircraft typically would fly along the same paths and at similar altitudes as they do today to join the GABOW SID at MNUDO
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety

Proposed SIDs (Departures)

SID Procedure



FXE

Fort Lauderdale Executive Airport

Area Navigation (RNAV)

Standard Terminal Arrivals (STARs)

HAAVI ONE

All Flows Full View

- Jet aircraft arriving to FXE from the north would fly this Standard Terminal Arrival (STAR)
- Arriving jet aircraft typically would fly along the same paths over the land as they do today, at potentially lower altitudes
- ATC may direct aircraft away from the procedure to avoid hazardous weather, for operational need, or for safety



FXE

Proposed STARs (Arrivals)
STAR Procedure