

Ft. Lauderdale-Hollywood International

Prepared by:  
Broward County Aviation

Third Quarter 2009  
February 2010

# Partnership for Quieter Skies Report



The *Partnership for Quieter Skies Report* provides an overview of progress of efforts to reduce the noise impacts of Fort Lauderdale - Hollywood International Airport (FLL). These efforts represent a partnership of several entities:

- **Broward County** owns and operates FLL, and is responsible for overseeing the airport's planning, development, and operation.
- The **Federal Aviation Administration (FAA)** is responsible for the efficient and safe navigation of aircraft. The FAA also oversees any federal actions at the airport, such as airport layout changes, installation of navigational aids, etc.
- **Air carriers** provide passenger and cargo service to and from FLL.
- **General aviation operators** operate in privately owned aircraft.

## ELEMENTS OF THE PARTERSHIP FOR QUIETER SKIES PROGRAM

Broward County Aviation Department initiated this program in response to requests from the Board of County Commissioners for a more transparent reporting of objective information related to FLL's noise abatement efforts. The program includes the following elements, based on data collected by FLL's Airport Noise and Operations Monitoring System (ANOMS):

- **Fleet Noise Reports** summarize and compare the overall noisiness of the specific mix of aircraft types each airline operates at FLL.
- **High Noise Event Reports** compare the numbers of "high range" noise events created by major categories of aircraft operators at FLL
- **Runway Use Summary Reports** present graphical and tabular summaries of arrival and departure runway use at FLL.
- **Flight Track Density Plots** show the relative frequency that aircraft fly over geographic areas around FLL

## FLEET NOISE REPORT

The Fleet Noise Report compares the noisiness of the specific fleet of aircraft that each airline operates at FLL, in relation to the current federal ("Stage 3") noise standards for airline jets, and also in relation to the fleets other airlines operate at FLL. The report lists the total jet operations at

FLL by carrier and a "Cumulative Below Stage 3 Limit" value for those operations. By focusing on the aircraft types that airlines actually use at FLL, rather than the airlines' overall fleets, it will assist individual airlines in making informed decisions regarding the aircraft models they schedule to fly into and out of FLL. This information will assist them to improve their overall Fleet Noise Score.

## HIGH NOISE EVENT REPORTS

High Noise Event Reports for arrivals and departures summarize contributions major operator categories make to noise experienced in the FLL environs, by listing the number of aircraft noise measurements that exceed a Sound Exposure Level (SEL) of 85 dB (see definitions). 85 dB SEL is a significant threshold, because it is the level at which several adverse community impacts begin to be experienced

## RUNWAY USE TRENDS

This report provides a tabular and graphical summary of overall runway use during the report period. These reports allow residents near the airport to understand, at a glance, the usage of runways that most affect them.

## 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:

- Air Carrier Jet Departures
- Air Carrier Jet Arrivals
- All Other Departures
- All Other Arrivals

## DEFINITIONS

**Decibel (dB):** A logarithmic measurement of sound intensity.

**Sound Exposure Level (SEL):** A term used to describe the total sound energy from a single aircraft noise event. It takes into account both the noise level and the duration of the event.

**Effective Perceived Noise Decibels (EPNdB):** A noise metric FAA uses in setting noise standards that jet aircraft and larger propeller-driven aircraft must meet to operate in the U.S.

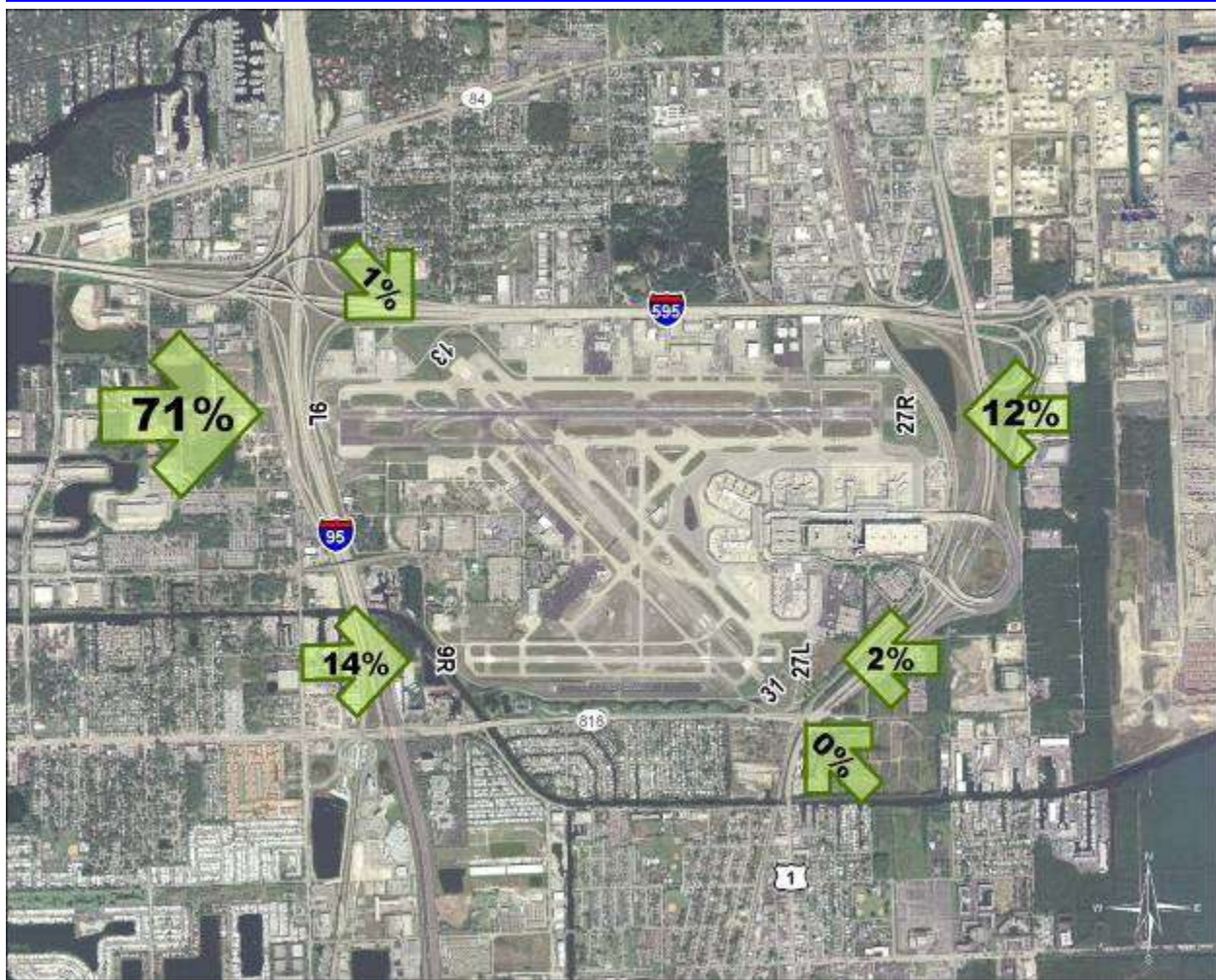
## Fleet Noise Report

Average Decibels Above or Below Federal Noise Standard  
Third Quarter 2009 (July 1 – September 30)

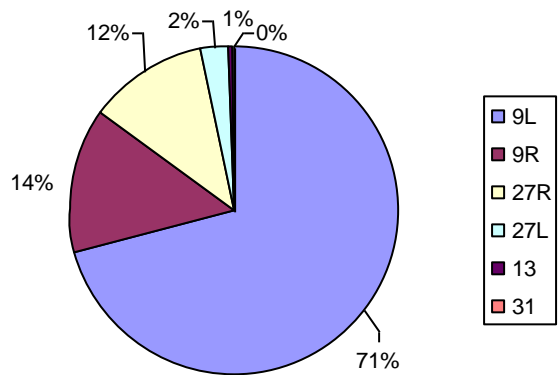
Airline	Total Jet Operations at FLL 7/1 - 9/30/09	Average Difference from Fed. Standard (Cum.EPNdB)	Below Federal Standard	Above Federal Standard
<b>Major</b>				
United Air Lines	2	-19.5		
Airtran Airways Inc	2703	-18.5		
Frontier Airlines Inc	176	-17.2		
Spirit Airlines Inc	9162	-17.0		
Continental Air Lines Inc	2173	-15.6		
Southwest Airlines Co	7942	-15.2		
Northwest Airlines Inc	1049	-14.6		
Delta Air Lines Inc	4011	-13.4		
America West Airlines	2940	-13.4		
Jetblue Airways Corp	4032	-12.7		
American Airlines Inc	1525	-12.6		
Allegiant Air Inc	371	-7.0		
Bahamasair Holdings Ltd	334	-0.7		
<b>Regional</b>				
Comair Inc	153	-26.9		
Chautauqua Airlines	2	-26.9		
<b>International &amp; Charter</b>				
Atlantic Southeast Airlines	85	-26.9		
Britt Airways Inc	17	-26.9		
Flight Options	6	-26.9		
Sun Country	2	-16.3		
Westjet Airlines Ltd	128	-16.3		
Bwia West Indies Airways Limited	172	-16.3		
Avianca	175	-16.0		
Miami Air International Inc	35	-15.2		
Air Canada	352	-13.7		
Air Jamaica	819	-13.2		
Usa 3000 Airlines	7	-12.7		
North American Airlines Inc	2	-9.2		
Ryan International Airlines	2	-7.0		
Ameristar Jet Charter Inc	3	-0.2		
<b>Cargo</b>				
United Parcel Service Co	125	-19.5		
Federal Express Corporation	419	-9.1		

## Runway Use Summary Report

Arrivals Runway Use for All Aircraft Types  
Third Quarter 2009 (July 1 – September 30)



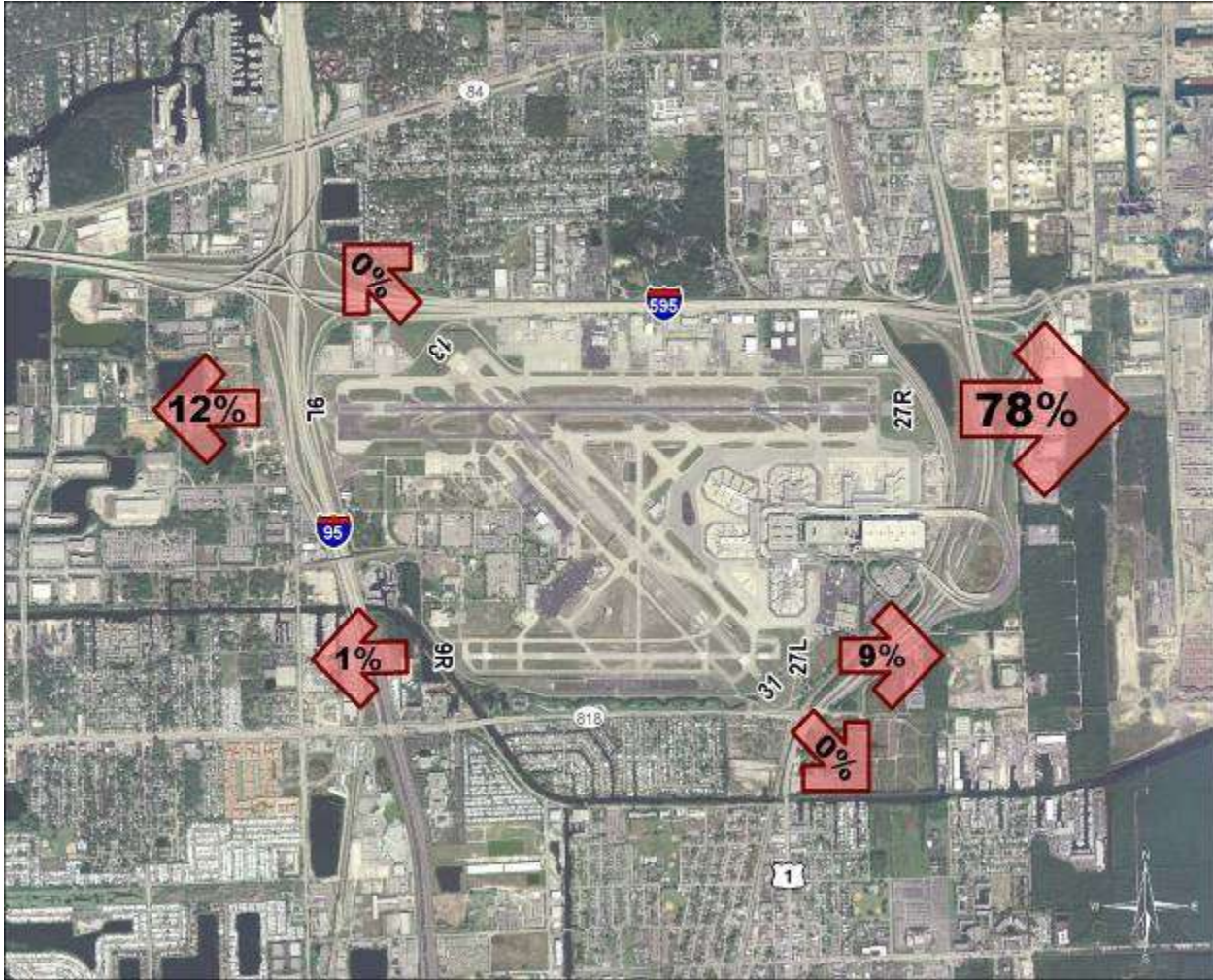
Runway	Arrivals
9L - North Runway, east flow	20816
9R - South runway, east flow	4151
27R -North runway, west flow	3546
27L - South runway, west flow	713
13 - Diagonal runway, south flow	159
31 - Diagonal runway, north flow	31



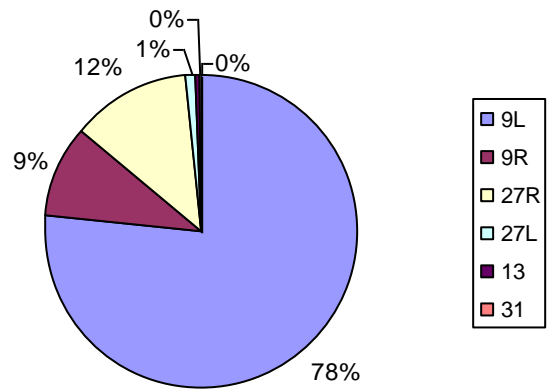
## Runway Use Summary Report

Departures Runway Use for All Aircraft Types

Third Quarter 2009 (July 1 – September 30)



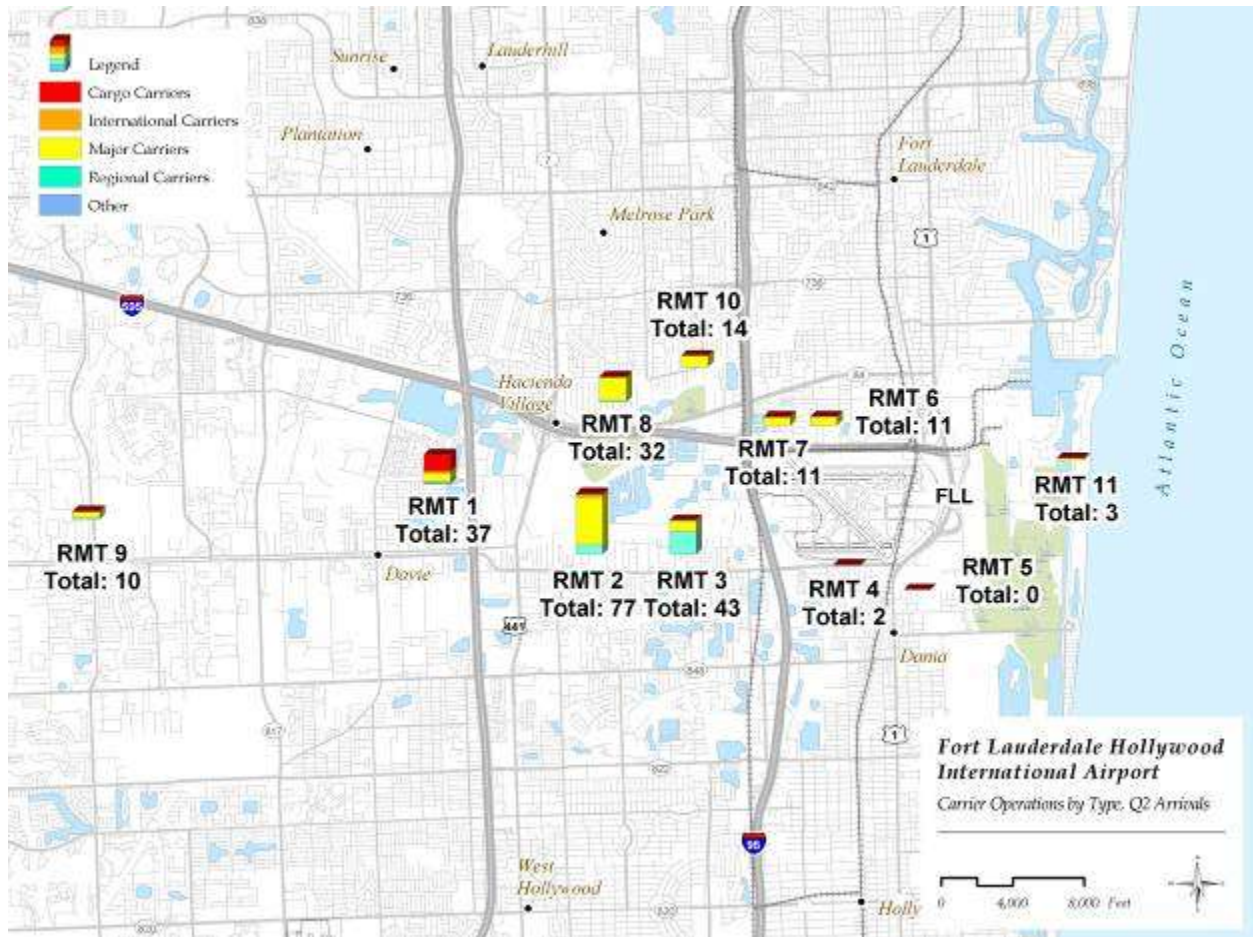
Runway	Departures
9L - North runway, east flow	22396
9R - South runway, east flow	2771
27R - North runway, west flow	3565
27L - South runway, west flow	343
13 - Diagonal runway, south flow	126
31 - Diagonal runway, north flow	29



## High Noise Events- Arrivals

For Monitor Locations 1-11

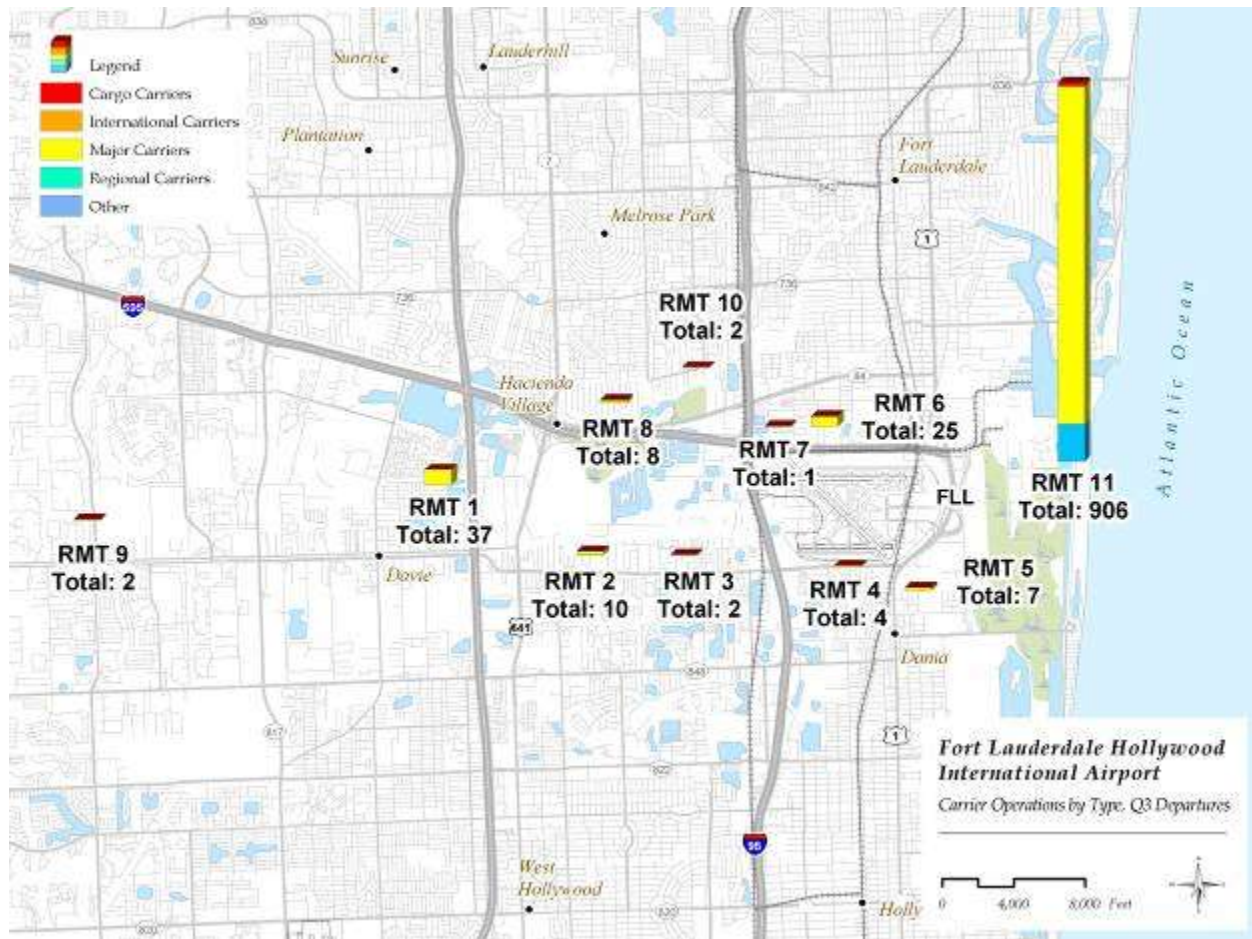
Third Quarter 2009 (July 1 – September 30)



## High Noise Events- Departures

For Monitor Locations 1-11

Third Quarter 2009 (July 1 – September 30)



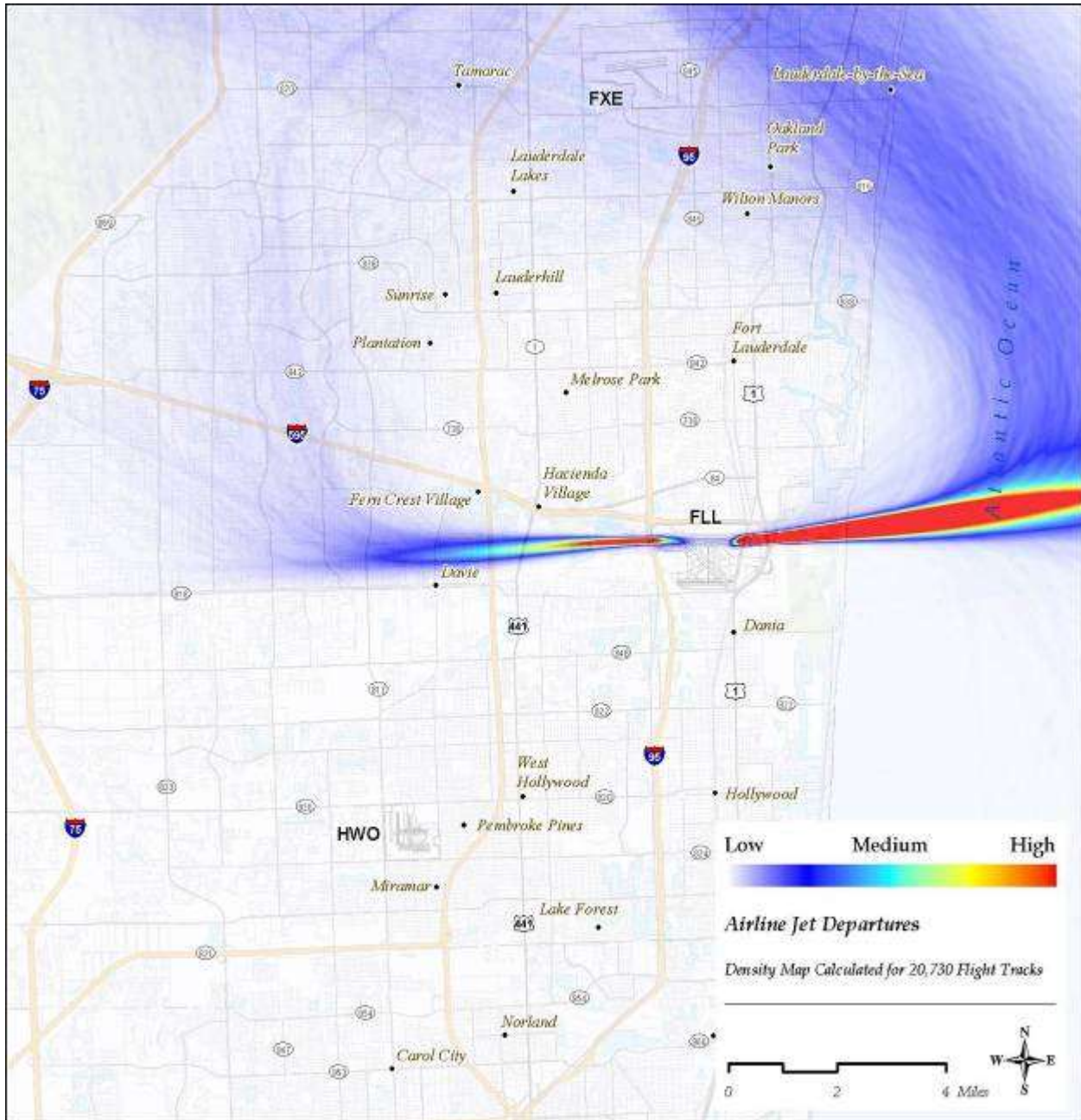
## Relative Airspace Density

For All Scheduled Passenger and Cargo Jet Arrivals  
Third Quarter 2009 (July 1 – September 30)



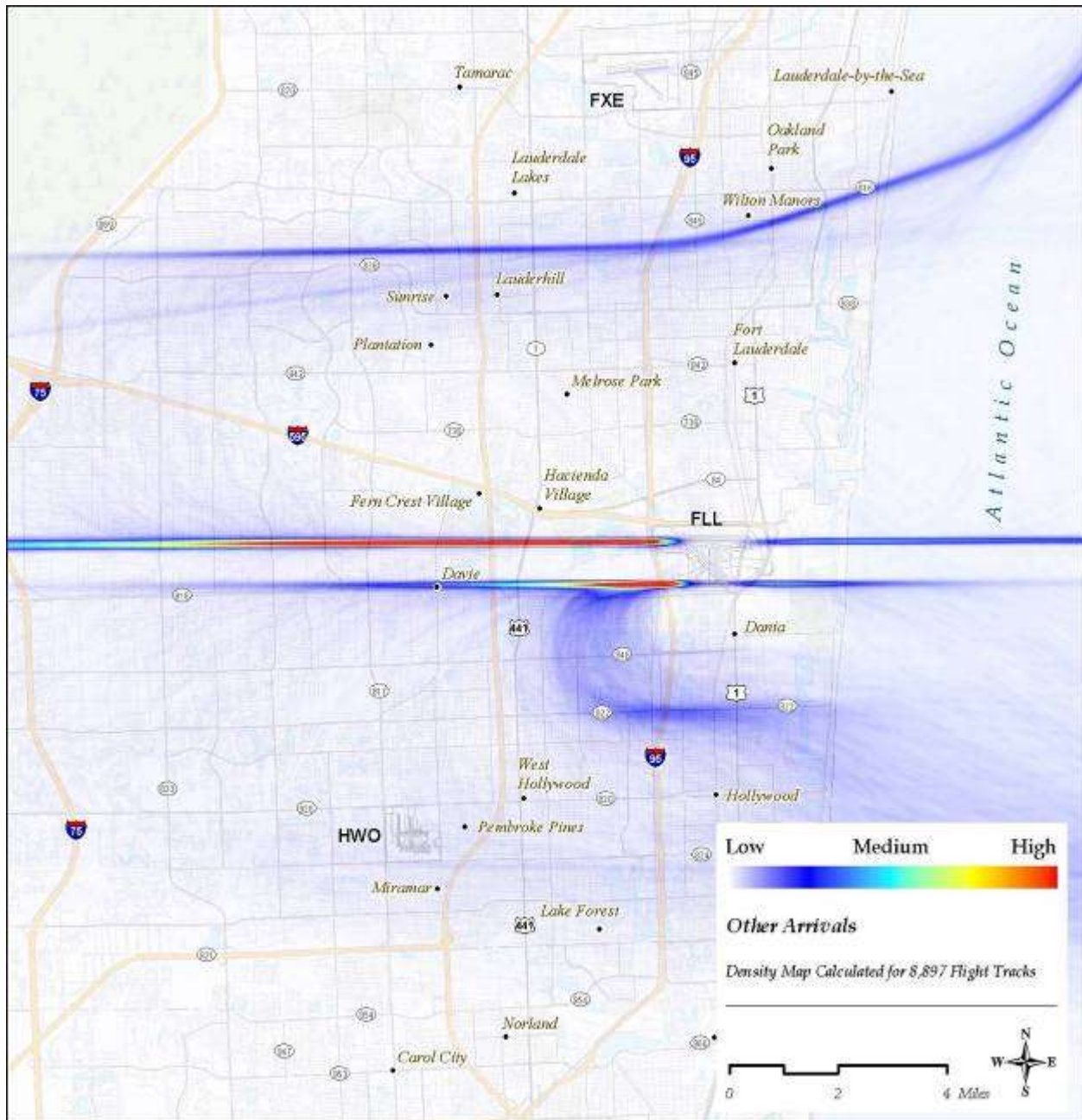
## Relative Airspace Density

For All Scheduled Passenger and Cargo Jet Departures  
Third Quarter 2009 (July 1 – September 30)



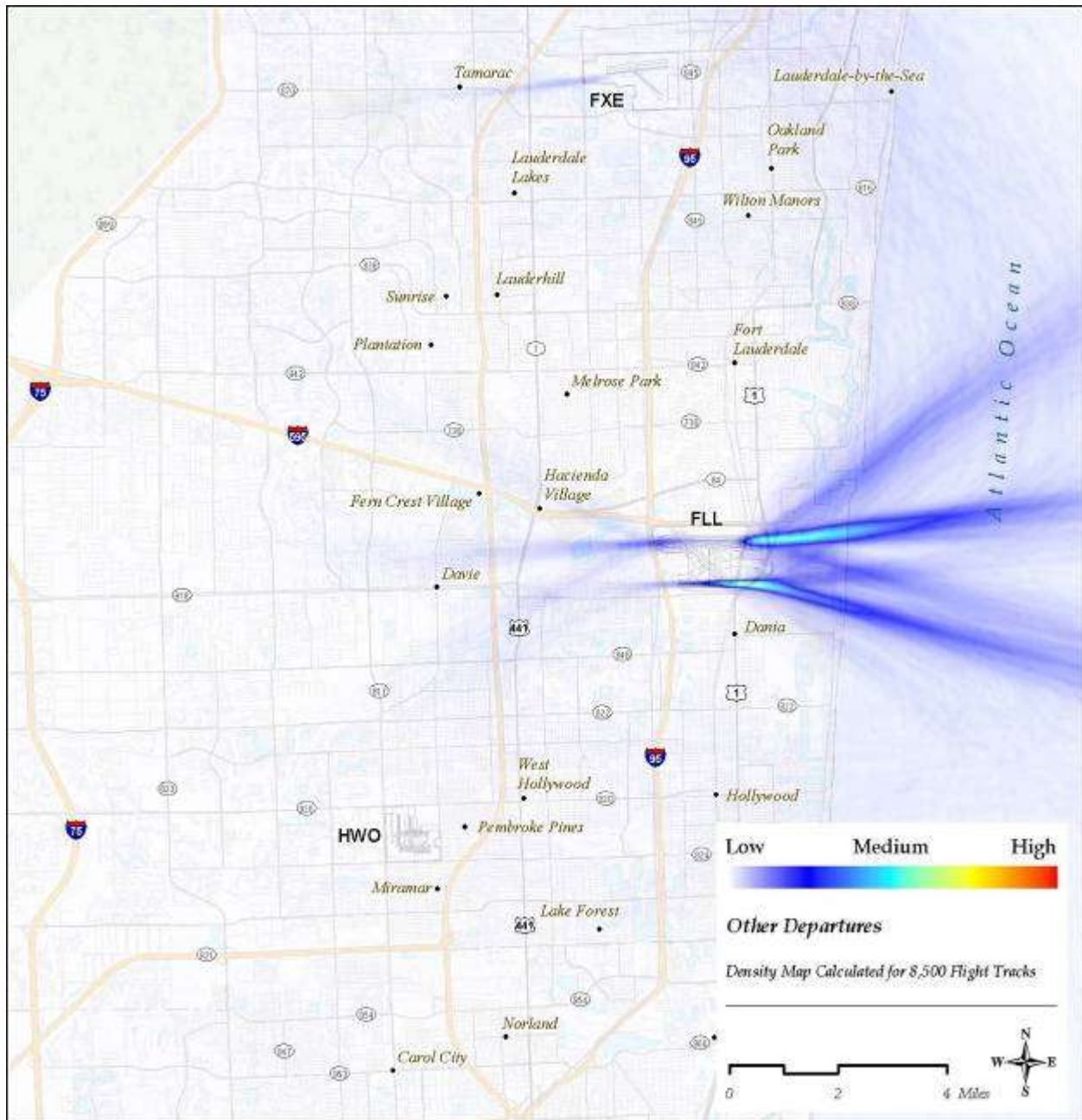
## Relative Airspace Density

For All Propeller and Non-Scheduled Jet Arrivals  
Third Quarter 2009 (July 1 – September 30)



## Relative Airspace Density

For All Propeller and Non-Scheduled Jet Departures  
Third Quarter 2009 (July 1 – September 30)





## COMMUNITY OUTREACH

Fort Lauderdale-Hollywood International Airport's Community Outreach Office provides area residents with information about the airport and its related projects. Residents can contact the Community Outreach Office with their questions.

To receive e-mail notices about future meetings or updates on these projects, send your name and email address to [asiegel@broward.org](mailto:asiegel@broward.org), or call 954-359-6977.

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