

DOCKETED

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Project Title:	Palen Solar Power Project - Compliance
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Document Title:	Email Re: Request for Ivanpah Report, dated June 10, 2014
Description:	N/A
Filer:	Alicia Campos
Organization:	Federal Aviation Administration/Dan Rollins
Submitter Role:	Public Agency
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Docketed Date:	6/24/2014

Adams, Jim@Energy

From: Daniel.Rollins@faa.gov
Sent: Tuesday, June 10, 2014 8:35 AM
To: Adams, Jim@Energy; Johanna.Forkner@faa.gov
Cc: Flores, David@Energy; Koch, Andrea@Energy
Subject: RE: Request for Ivanpah report
Attachments: Ivanpah.pptx

Jim,

Attached is the Ivanpah analysis. It follows the same format as the Palen analysis, with the same information slides. I added comments to each slide to explain some of our aviation terms, as well as the aircraft type and airport ID information.

In this study there were military flights above 50,000' MSL. For security reasons, these flights were removed from the images. However, they are included in the flight count on slide six.

If you have any questions, please let me know.

Dan Rollins
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From: Adams, Jim@Energy [<mailto:Jim.Adams@energy.ca.gov>]
Sent: Monday, June 09, 2014 9:50 AM
To: Forkner, Johanna (FAA)
Cc: Rollins, Daniel (FAA); Flores, David@Energy; Koch, Andrea@Energy
Subject: Request for Ivanpah report

Johanna,

My colleagues and I were very impressed with the Palen Aeronautical Study Dan generated. It will be useful in educating Energy Commissioners, their advisers and staff, parties to the proceeding, intervenors and members of the public. We would like to have a similar report for Ivanpah Solar Electric Generating System (ISEGS). Clark County (Nevada) Department of Aviation gave us some data but it was not as detailed as the Palen Study. Aeronautical information for ISEGS during the month of May 2014 would be directly comparable to the Palen data. We appreciate the FAA's involvement in providing information important to our investigation of solar power tower projects generating significant glare.

Thank you,

Ivanpah Solar Project

Aeronautical Study

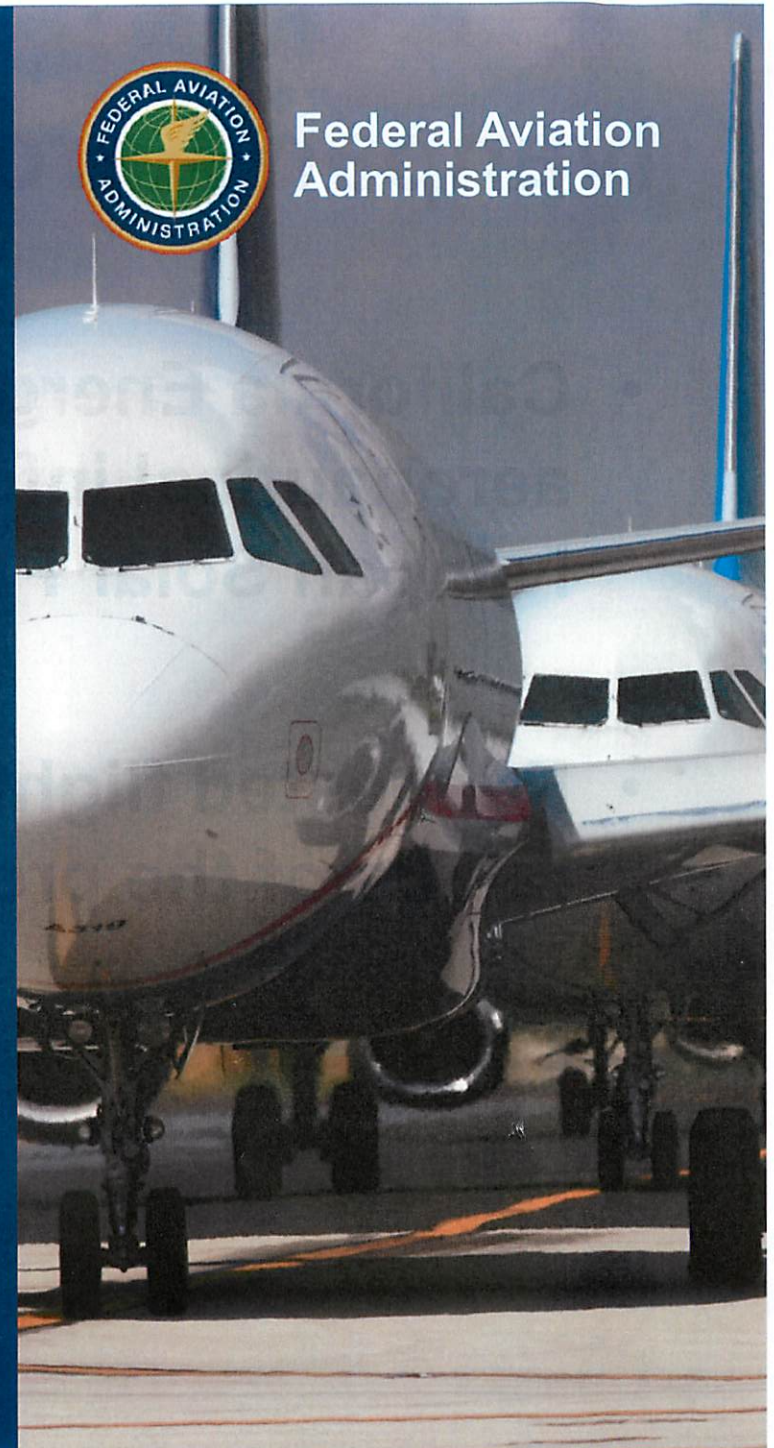
Presented to: California Energy Commission

By: Western Service Center Operations Support Group

Date: June 2014



Federal Aviation
Administration



Ivanpah Aeronautical Study

- **California Energy Commission requested aeronautical information in the area of the Ivanpah Solar Project**
- **Requested flight information within a 15nm radius of the project location, at all altitudes**



Analysis Parameters

- **Using the Performance Data Analysis and Reporting System (PDARS)**
- **Traffic data from the Los Angeles Air Route Traffic Control Center (ZLA ARTCC)**
- **May 2014 (complete month)**
- **Examined center-point 35°33'23.87"N, 115°28'13"W**



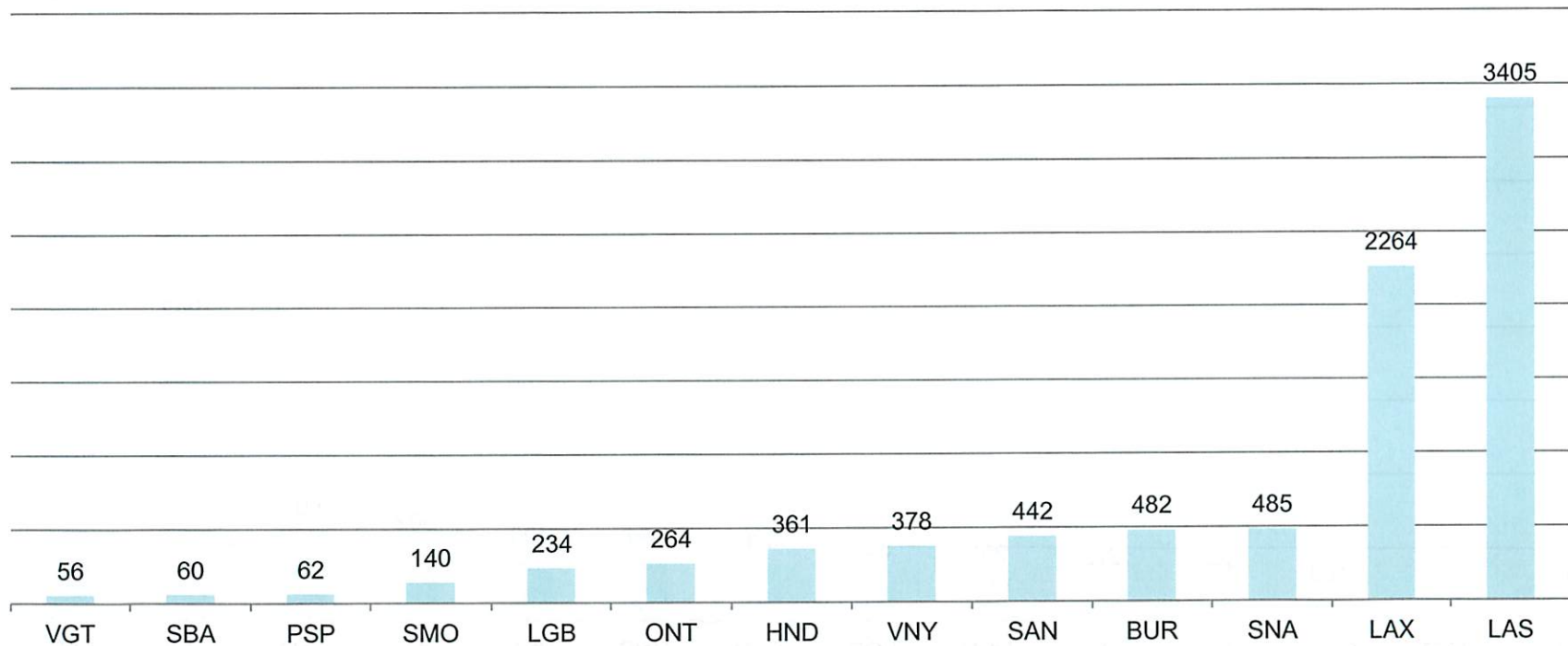
Analysis Limitations

- **No Visual Flight Rules (VFR) flights shown**
 - This is a data limitation, and are not available
- **Radar limitations in the area may result in some low altitude flights being missed**
 - This should be a very limited amount
- **Occasionally flights tracks split, causing multiple counts for one flight. Therefore total track count may not equal total flight count**
- **45 flights through the region did not contain flight information, such as type, arrival or departure airport. These were general aviation, military or unidentified targets being tracked by Air Traffic Control for various reasons**



List of Departure Airports

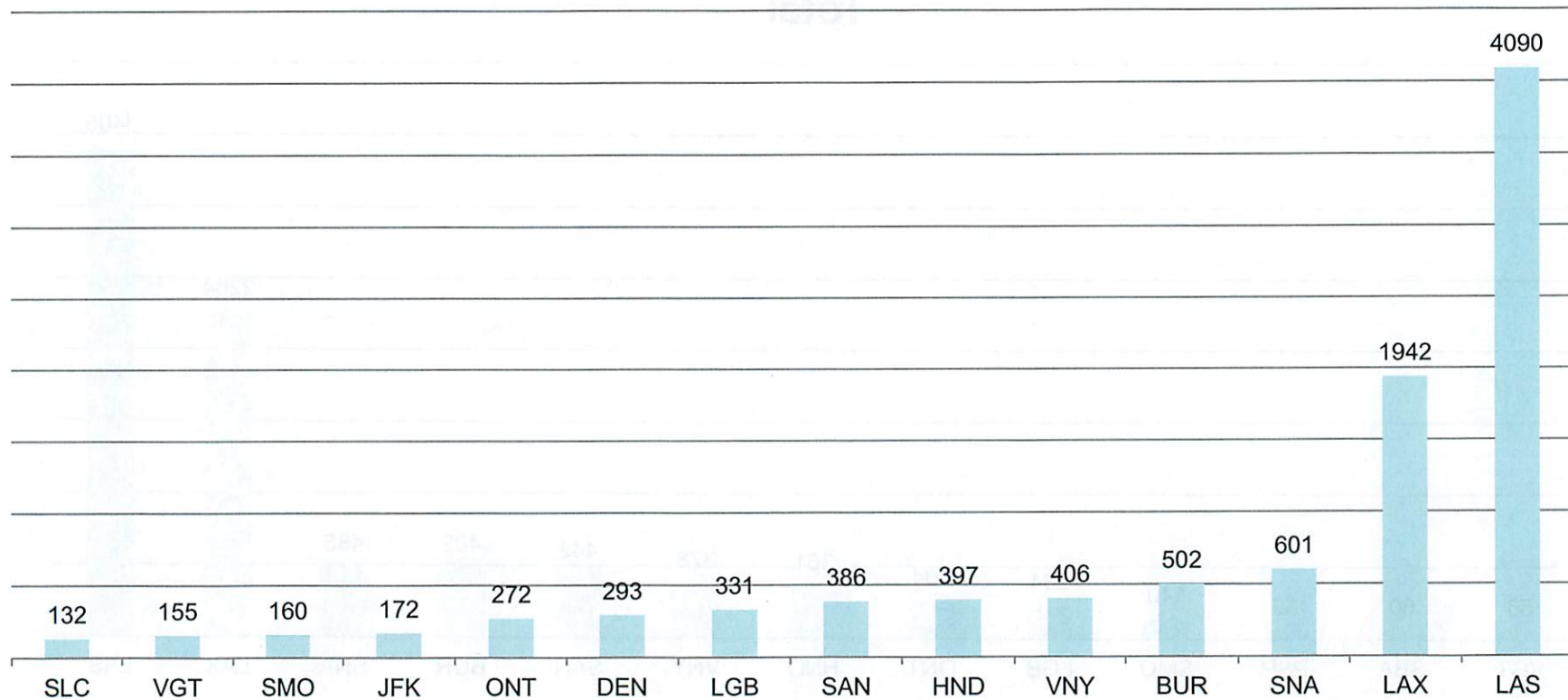
Total



Airports with 50 or more departures through the examined area

List of Arrival Airports

Total

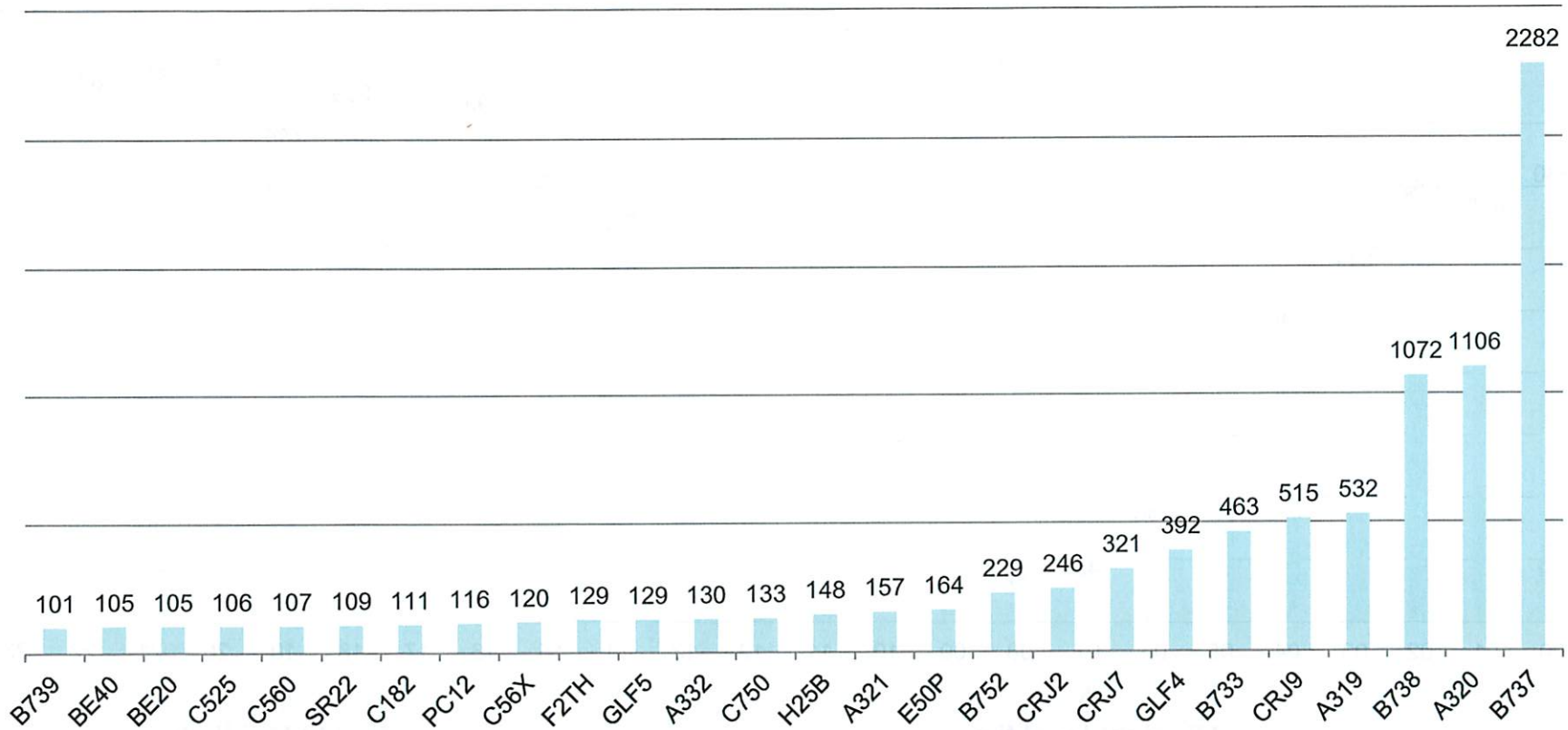


Airports with 100 or more arrivals through the examined area



Aircraft Types

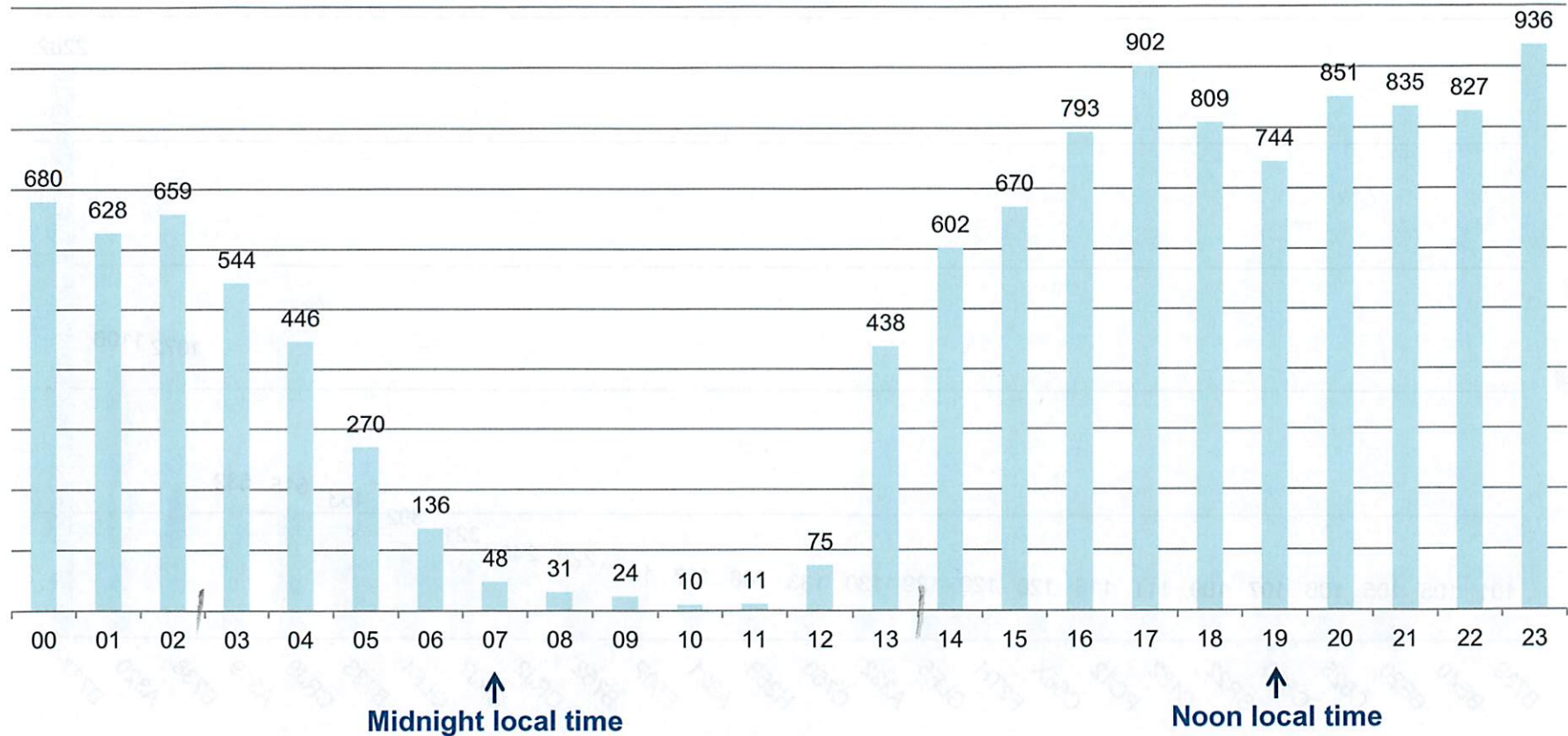
Total



Aircraft with 100 or more types through the examined area

Time of Day

Total



Times are in UTC: 0000 UTC = 1700 Pacific Daylight Time

May 2014 – 11969 Tracks

From	To	Color
0	100	Red
100	200	Green
200	300	Blue
300	400	Yellow
400	500	Light Blue
500	600	Orange



Analysis Area

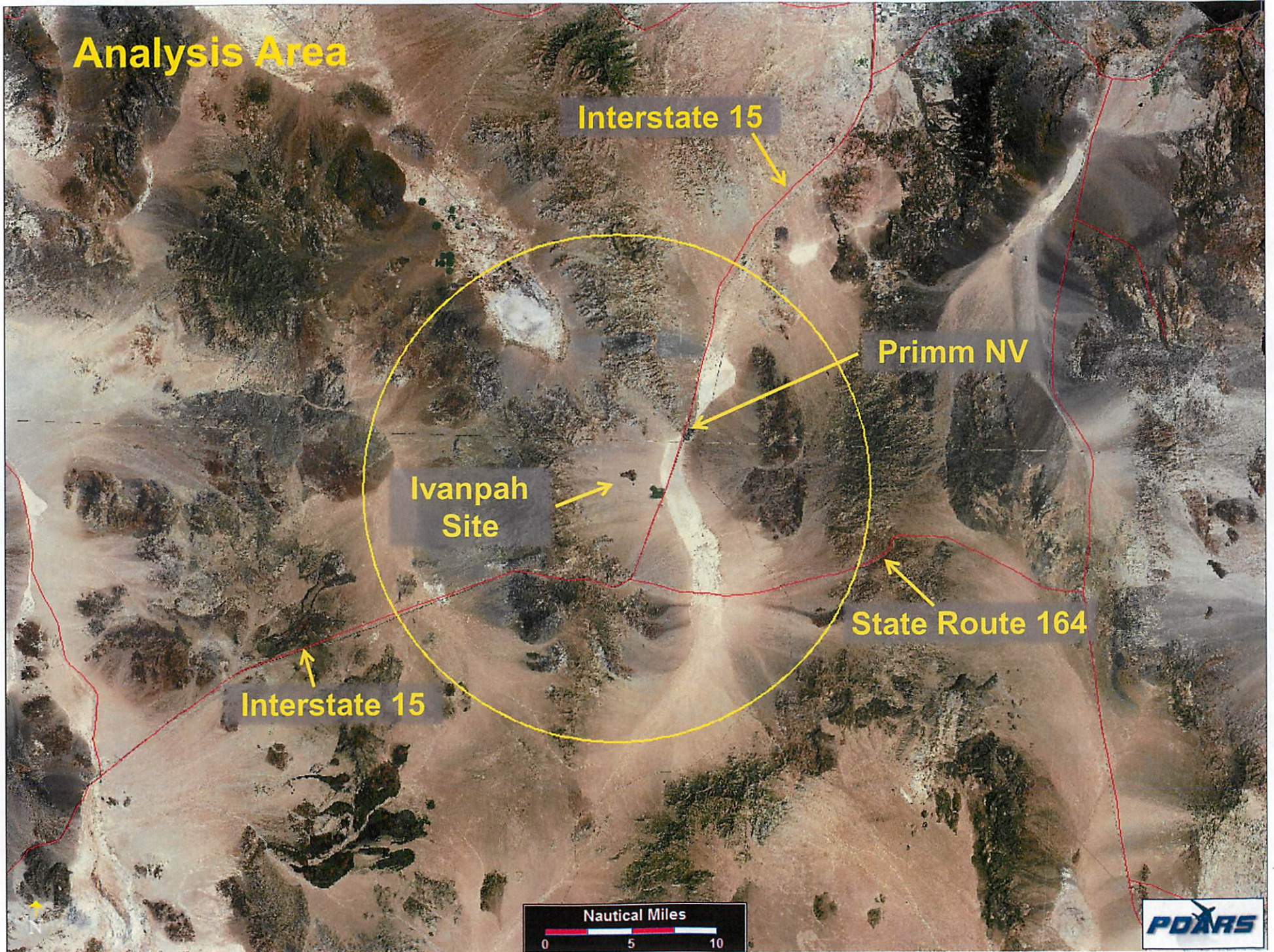
Interstate 15

Primm NV

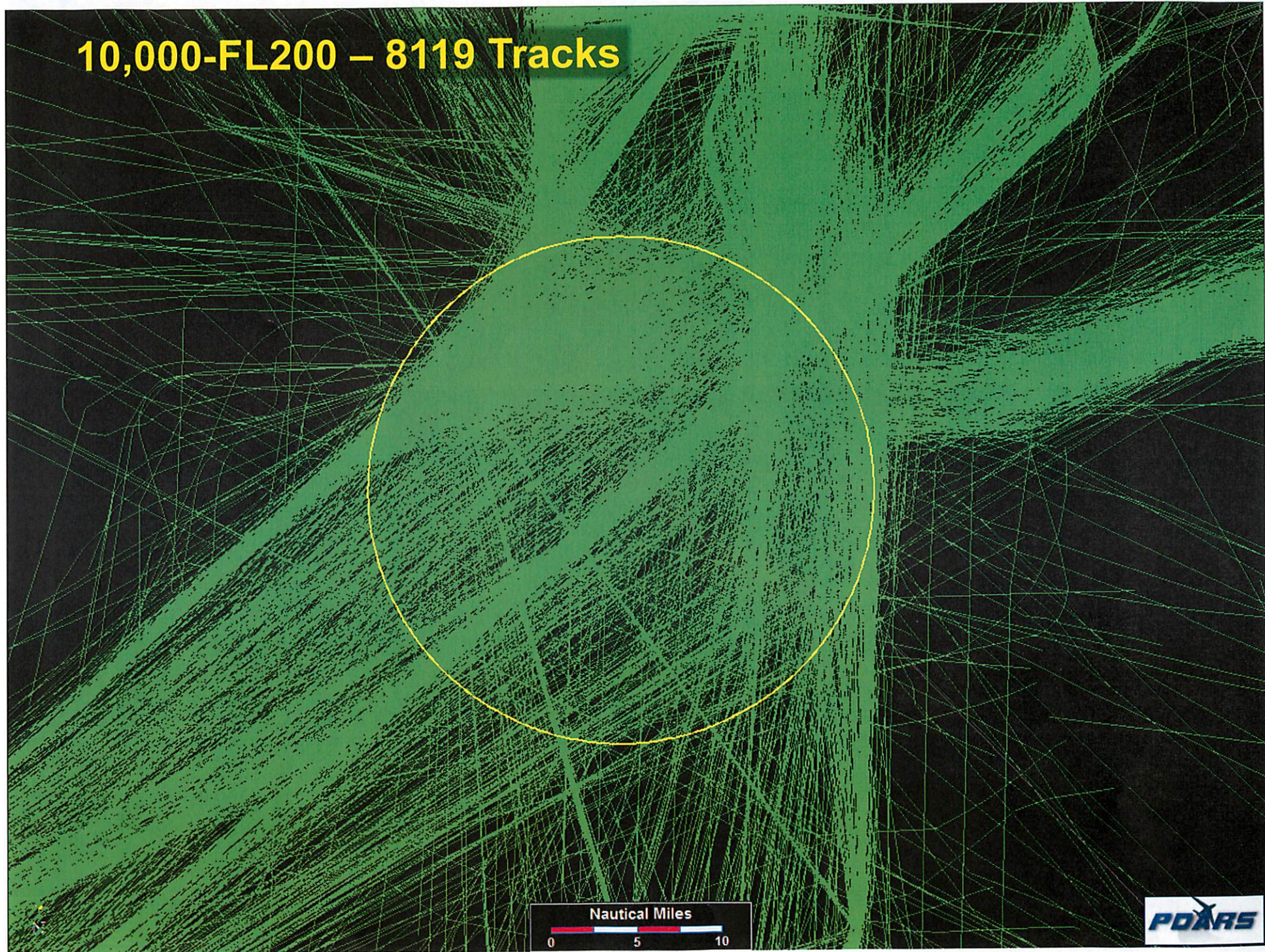
Ivanpah Site

State Route 164

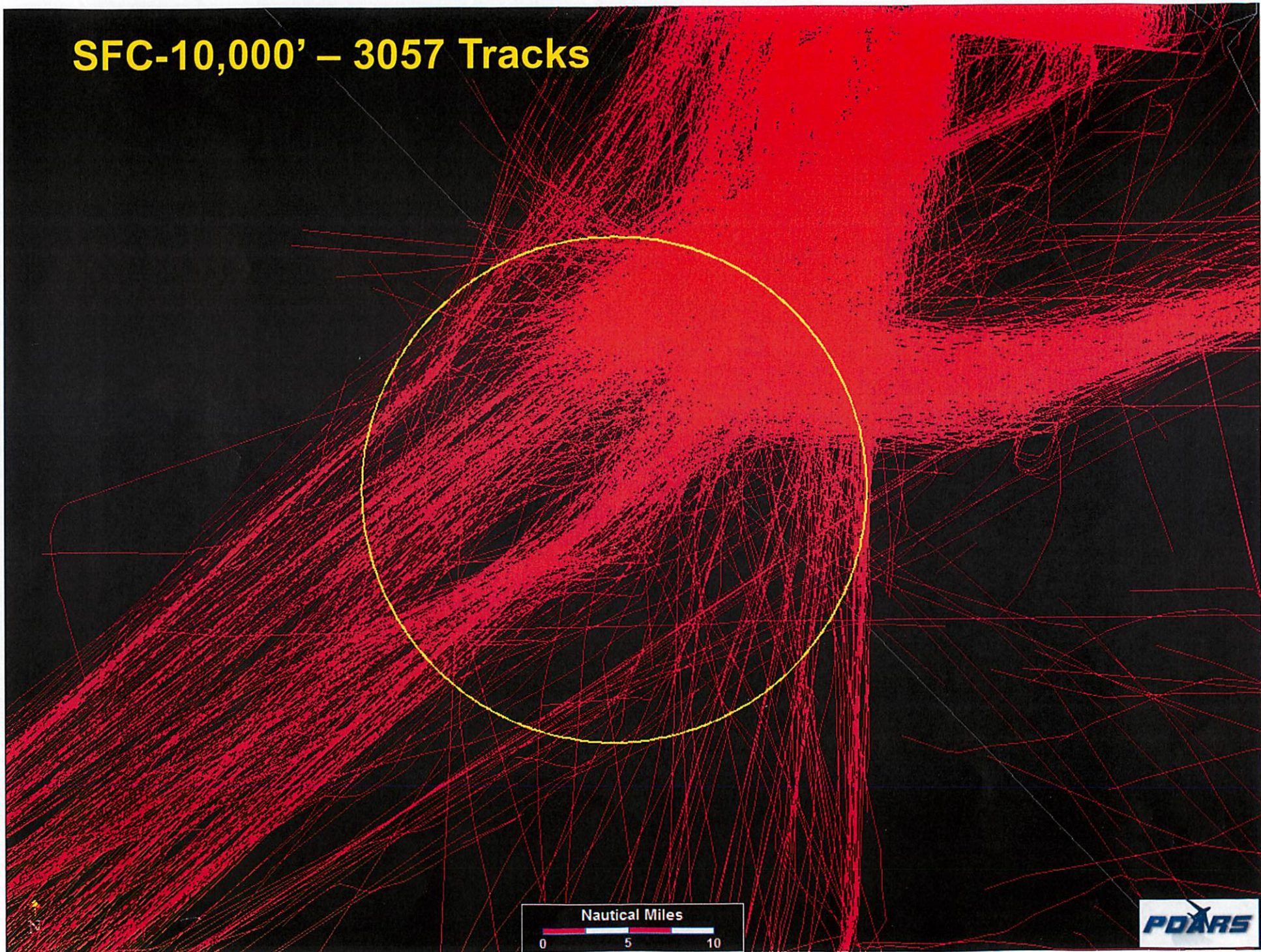
Interstate 15



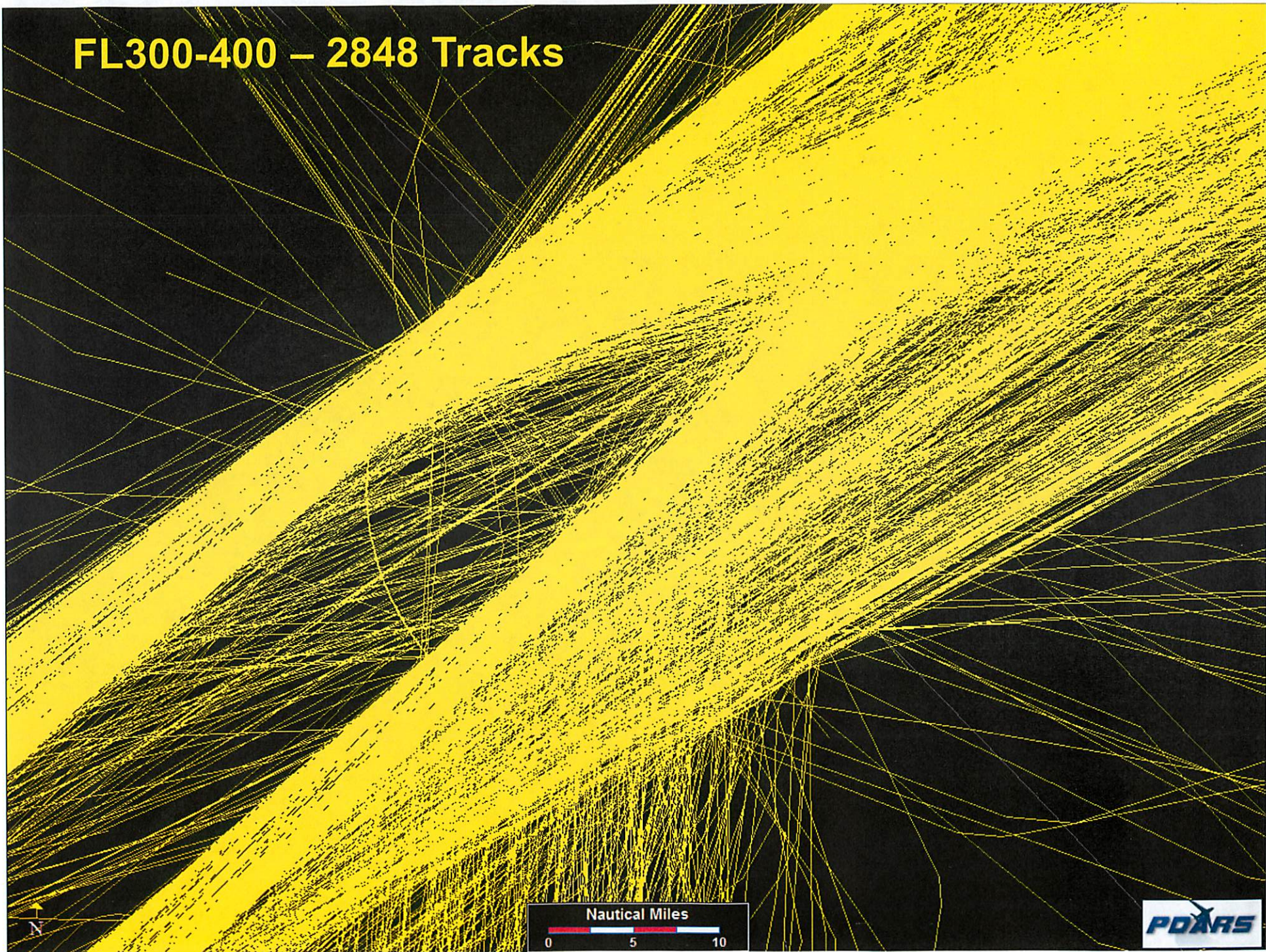
10,000-FL200 – 8119 Tracks



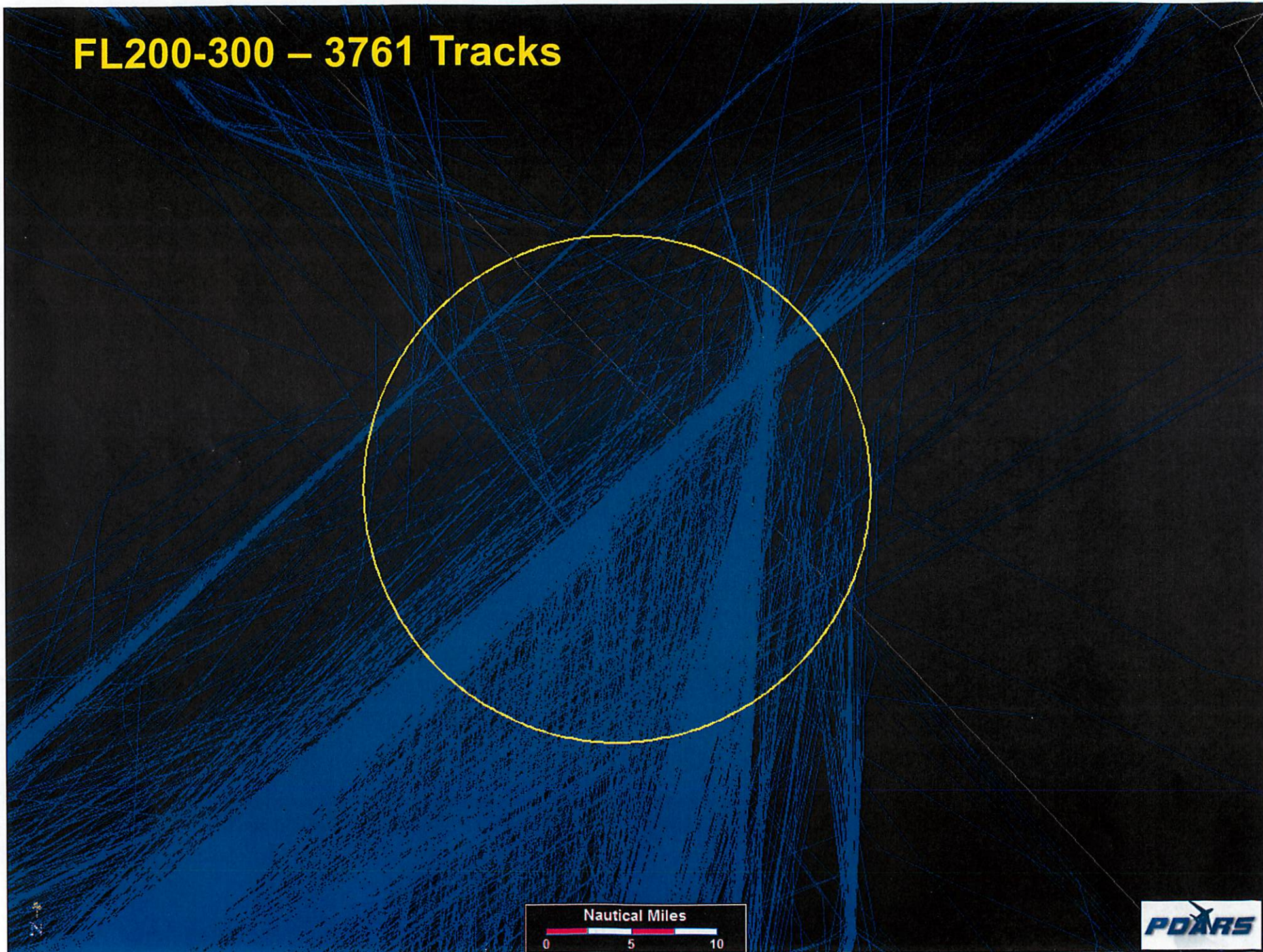
SFC-10,000' – 3057 Tracks



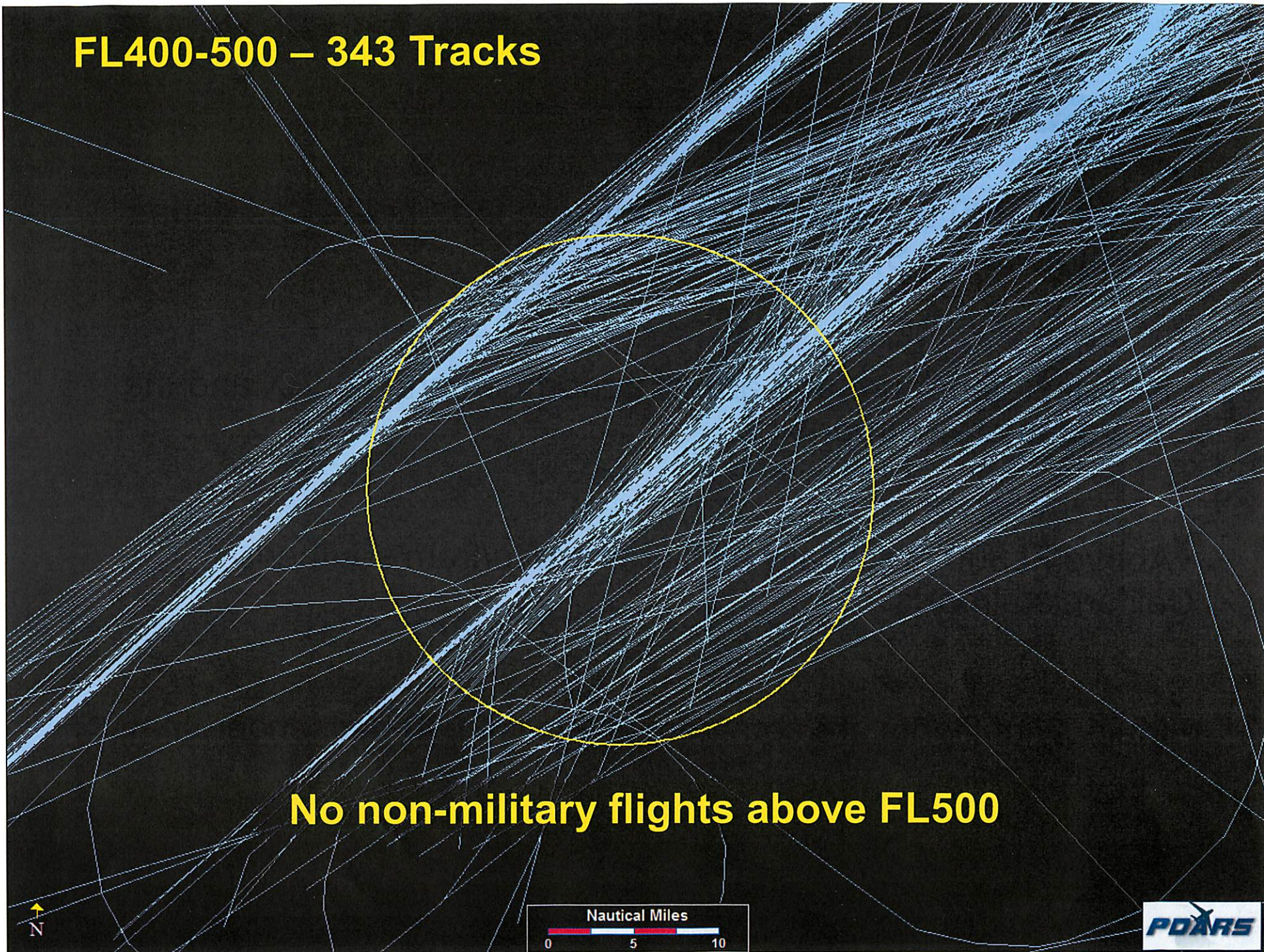
FL300-400 – 2848 Tracks



FL200-300 – 3761 Tracks



FL400-500 – 343 Tracks



No non-military flights above FL500

N

Nautical Miles
0 5 10

PDARS

Observations

- Below FL300 the majority of flights are to/from the Las Vegas area airports (LAS, VGT & HND)
- Heaviest departure and arrival airport demand is LAX and the Las Vegas area airports
- Above FL300 practically all flights are to/from southern California airports
- Majority of flights are commercial jets with 70 passenger seats or more



Questions?

