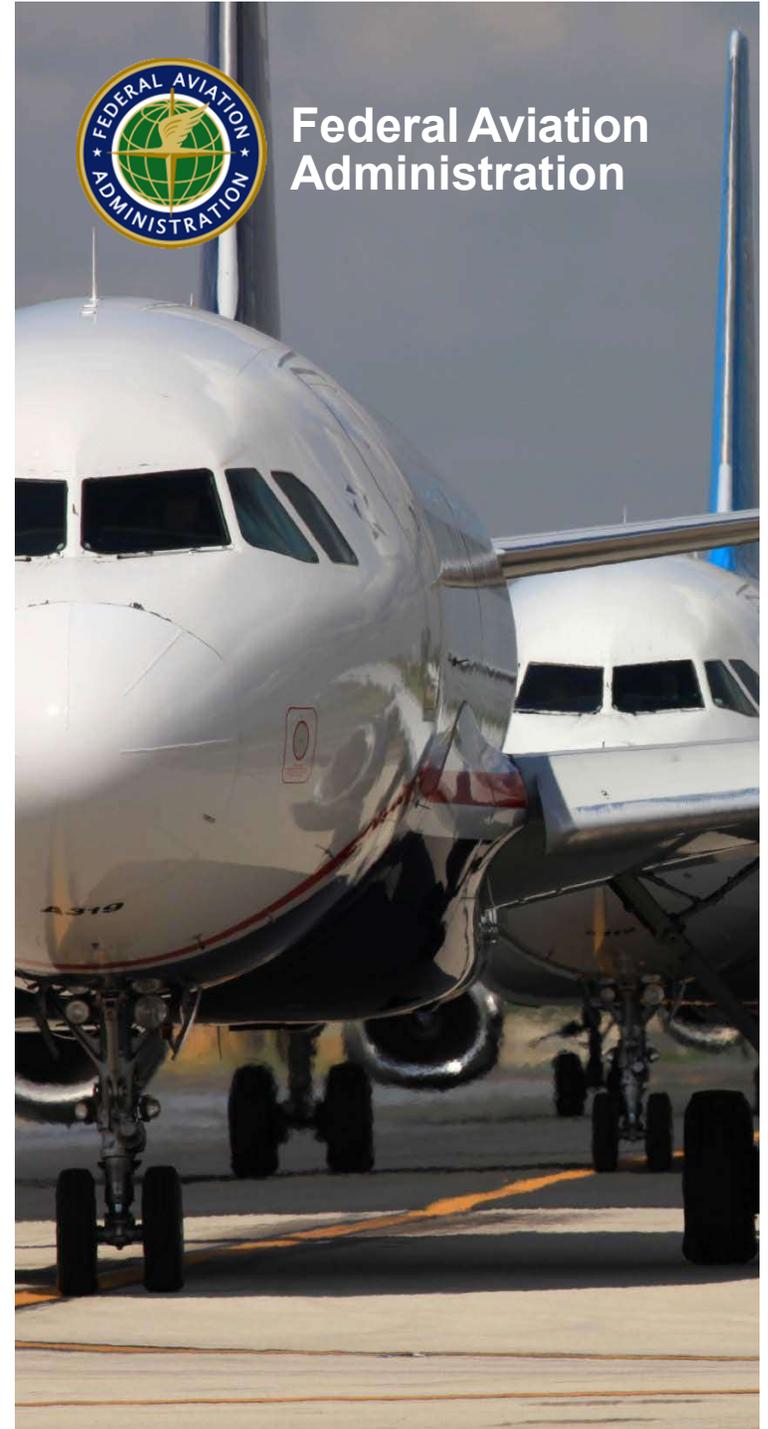


# SJC North and South Flow

## Pre and Post OAPM

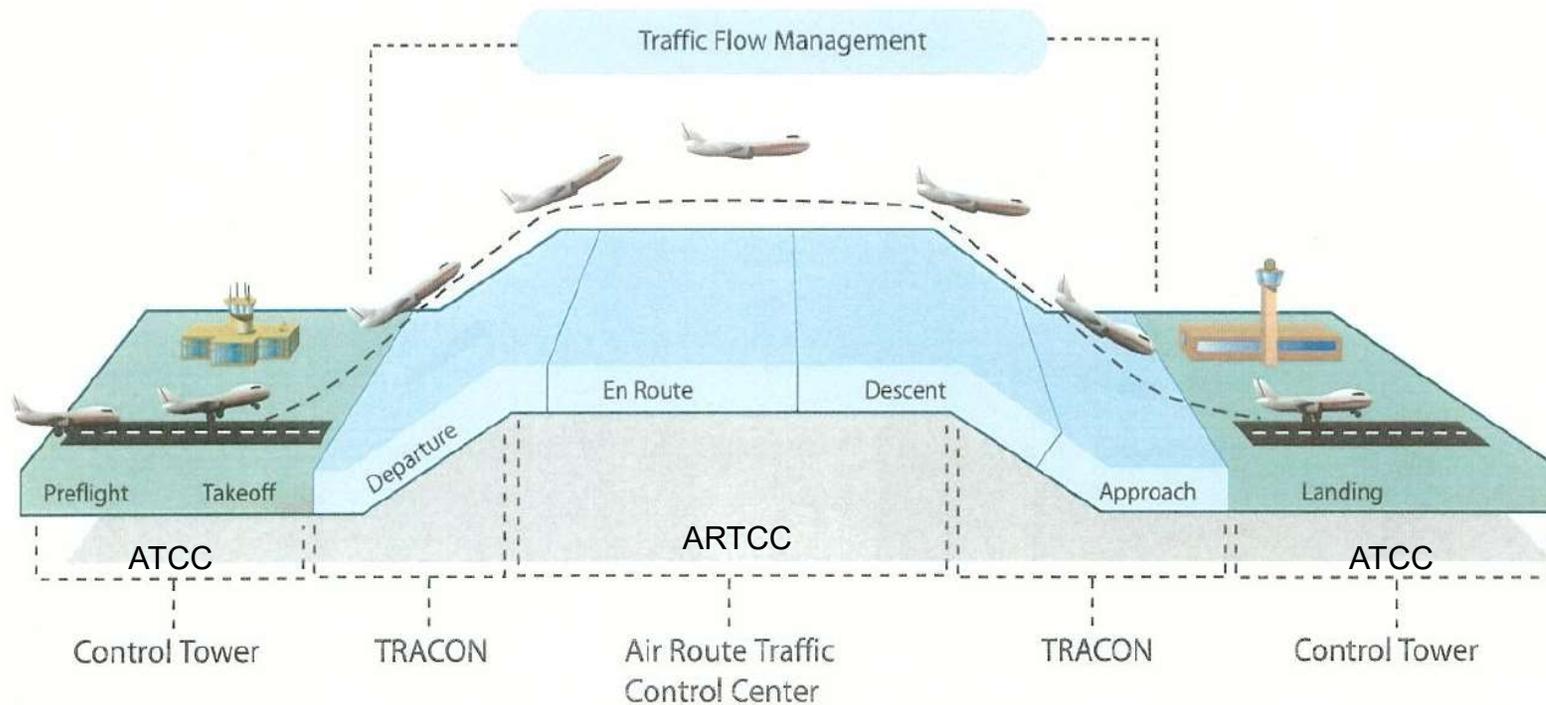
Date: January 2018



# Phases of Flight



Phases of a Commercial Flight



# Aviation Terms

**VFR-** Visual Flight Rules. Pilots must maneuver to avoid clouds and are responsible for their own terrain separation.

**IFR-** Instrument Flight Rules. Air Traffic is responsible for both plane to plane and plane to terrain separation.

**VMC-** Visual meteorological conditions. Weather conditions that allow for VFR Flight.

**IMC-** Instrument meteorological conditions. Weather conditions that do not allow for VFR Flight.

**Instrument Approach** – An IFR flight path that utilizes navigational aids to provide lateral and vertical guidance to the runway.

**Charted Visual Approach** – An IFR flight path that is made up of visual land markers and is hand flown by the pilot to the runway.

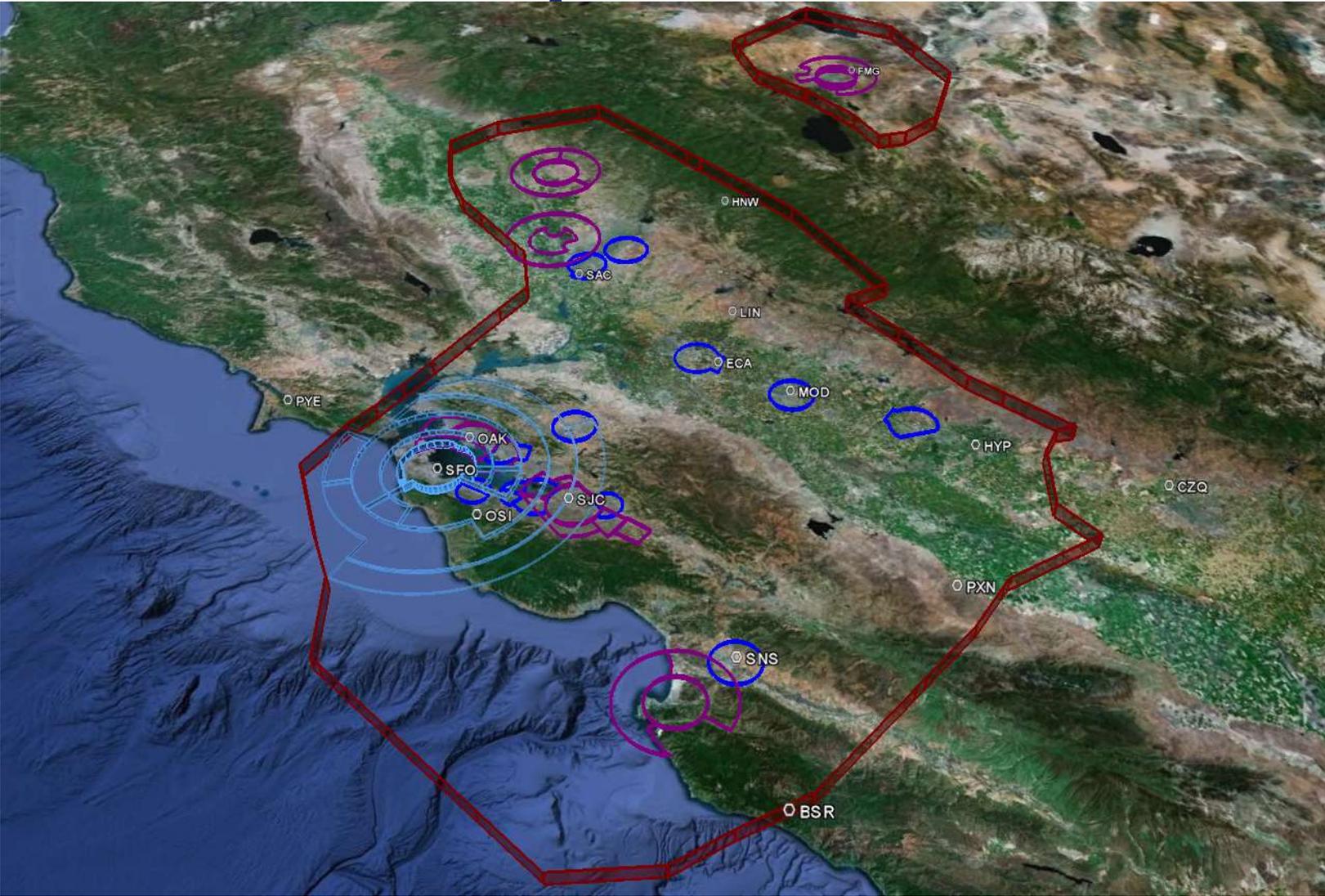


# ARTCCs & NCT airspace

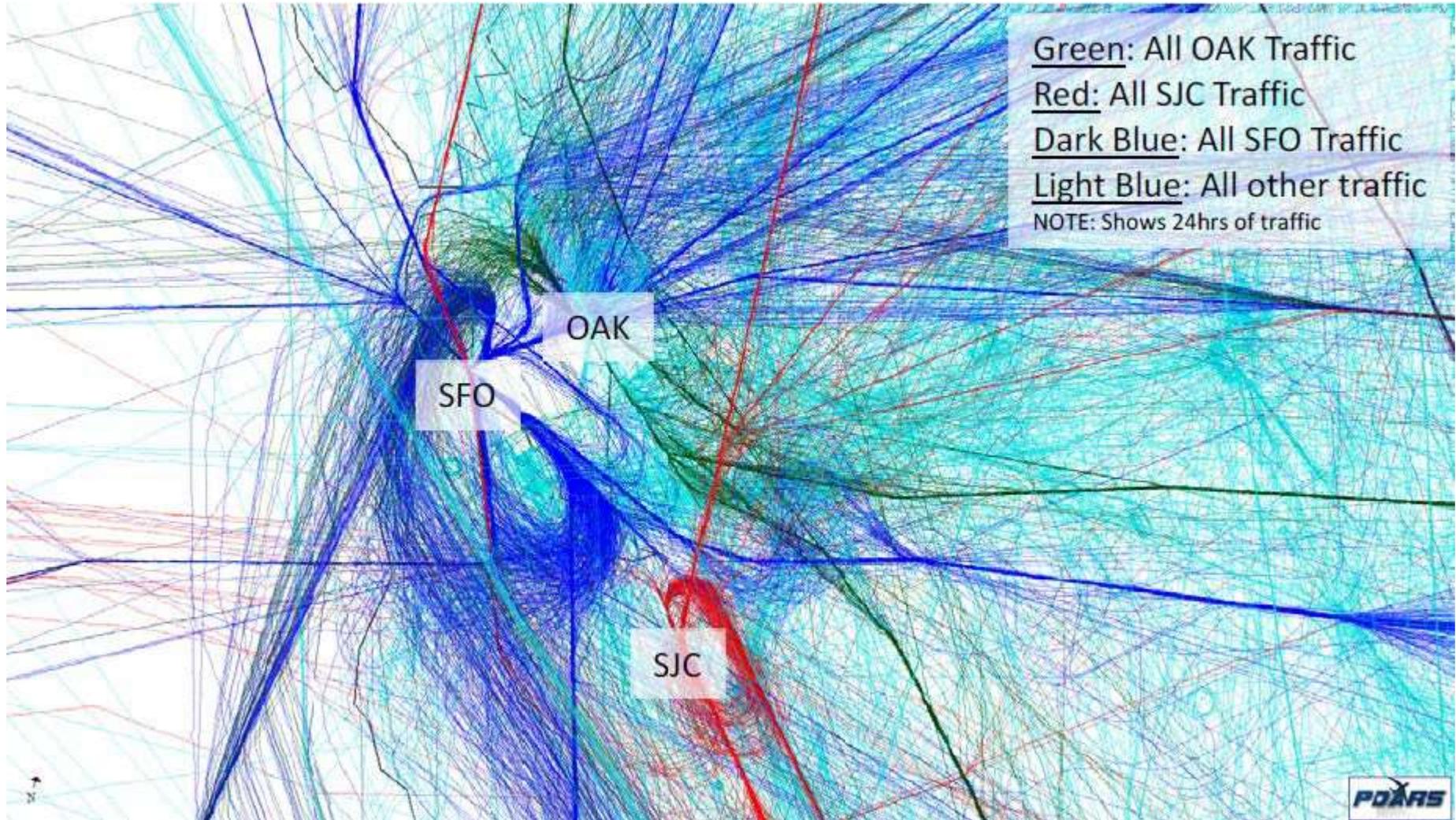


Federal Aviation  
Administration

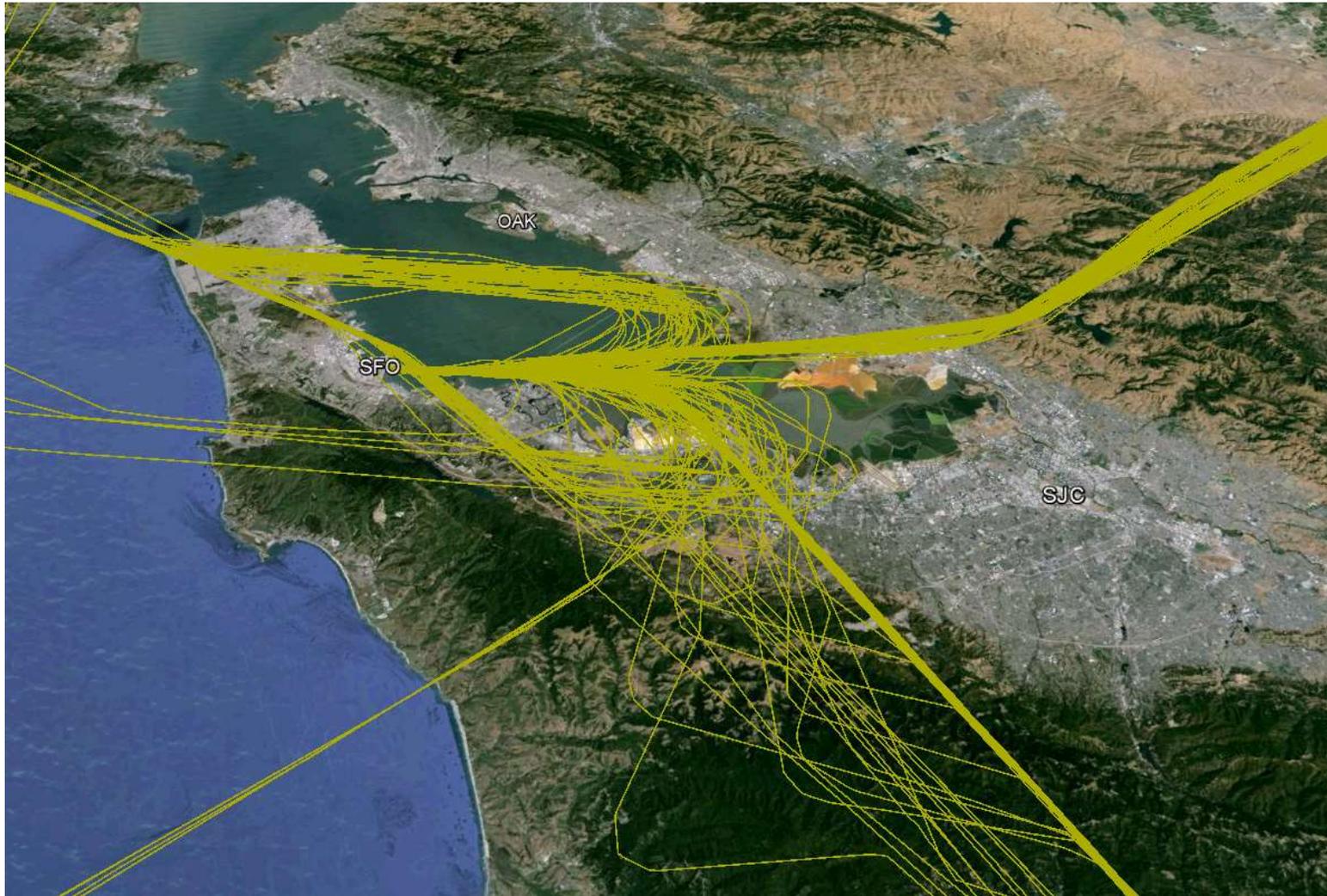
# Over 200 Airports within NCT



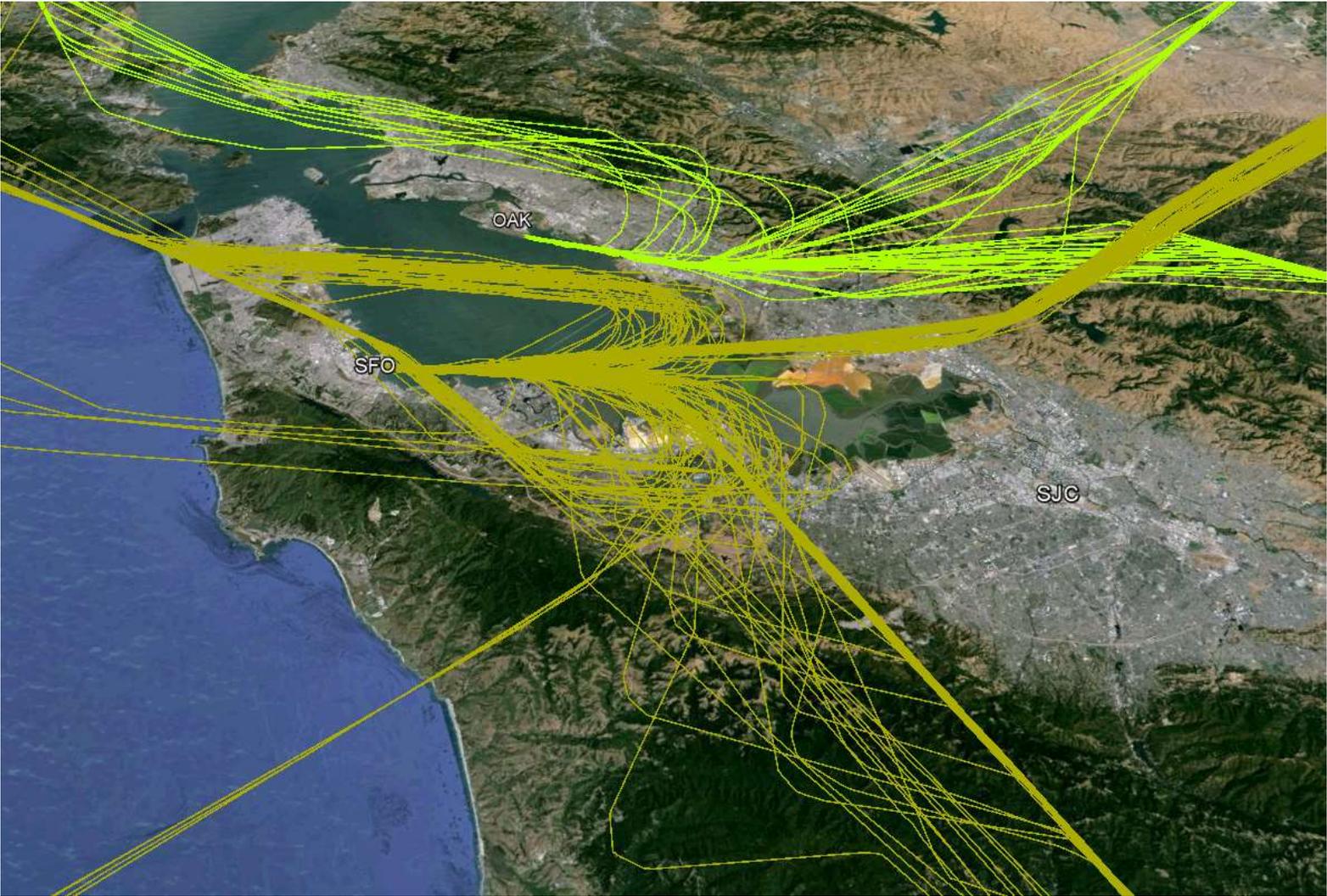
# NCT Traffic – 24 Hours



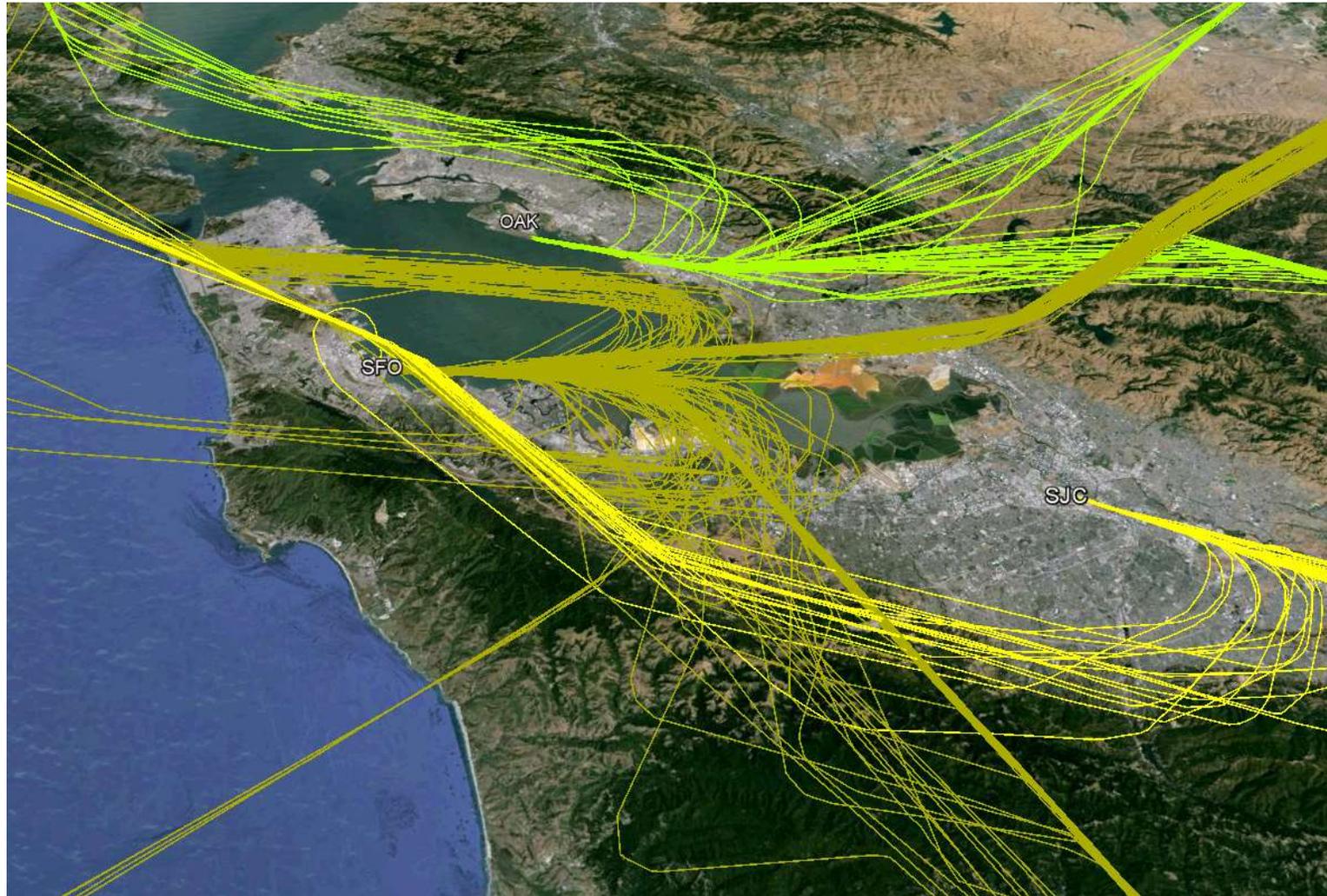
# SFO Arrivals - Gold



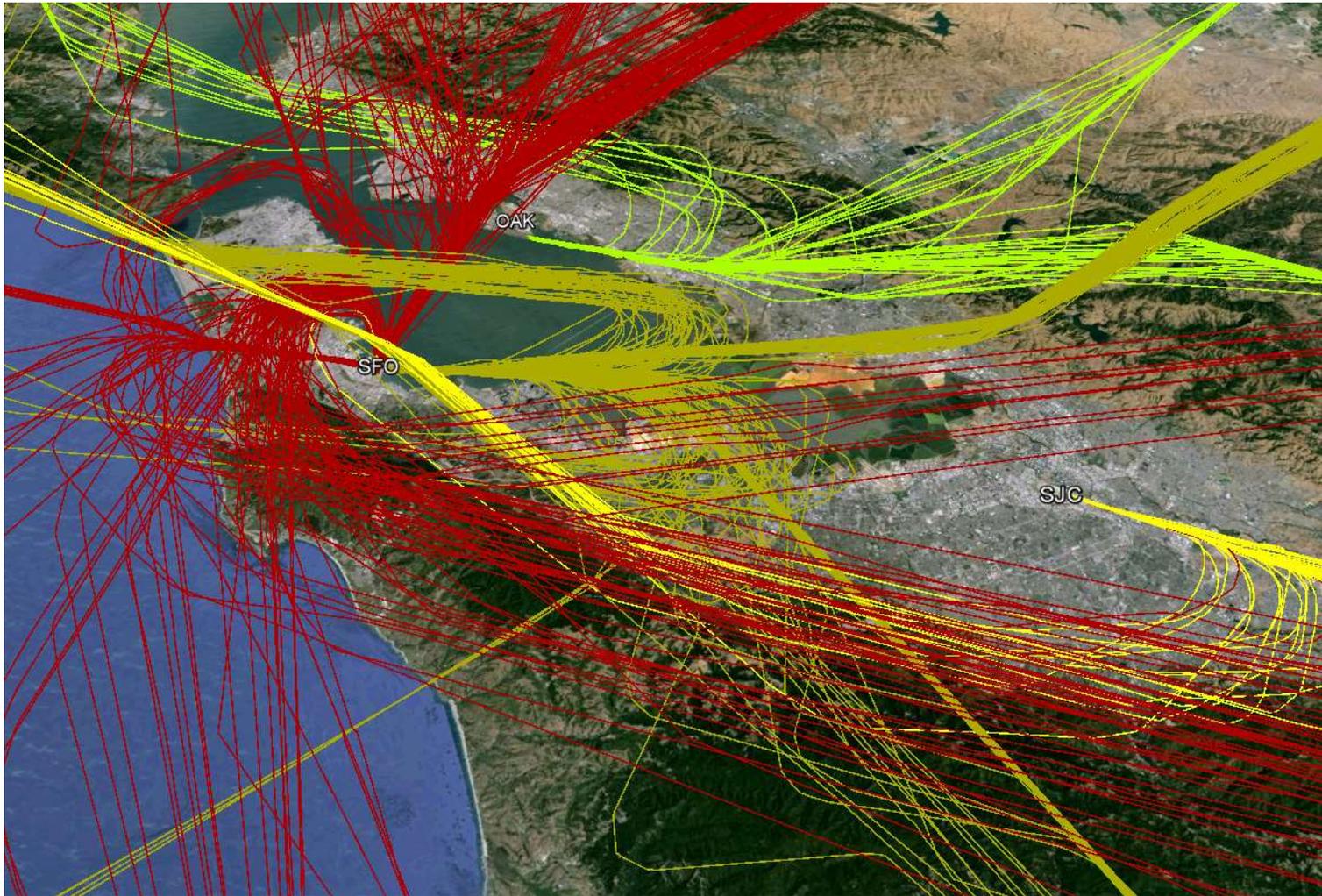
# OAK Arrivals - Green



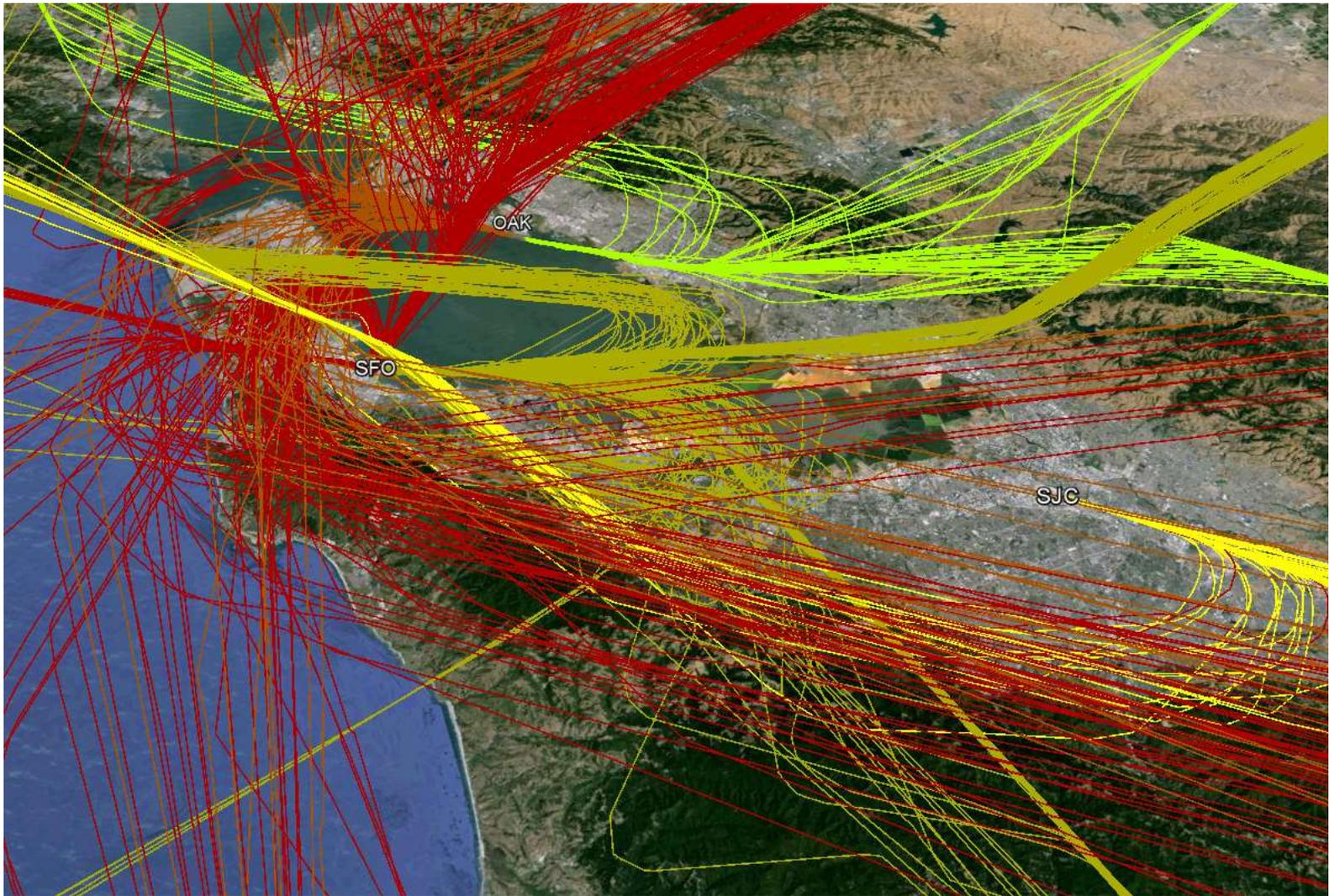
# SJC Arrivals - Yellow



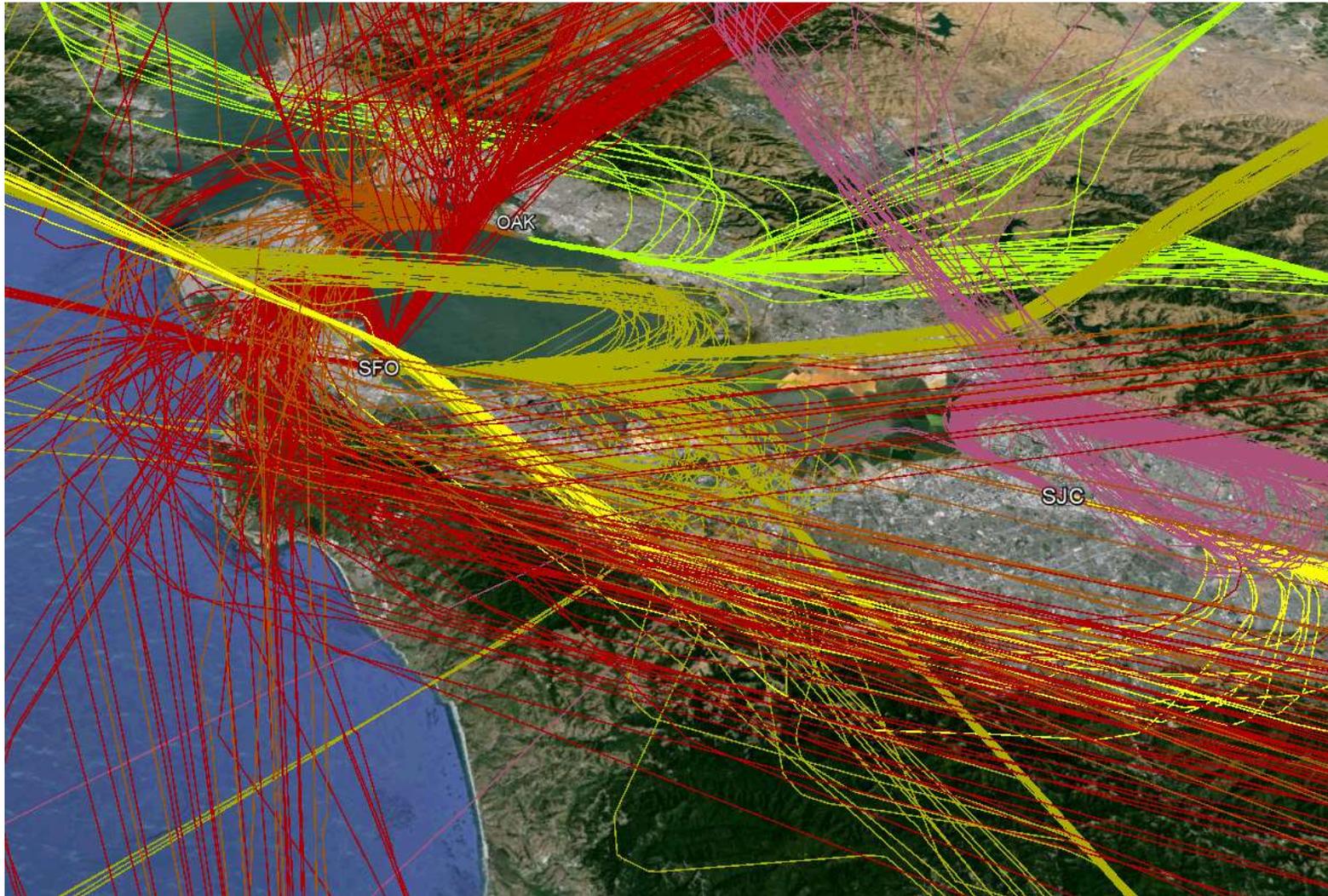
# SFO Departures - Red



# OAK Departures - Orange



# SJC Departures - Pink



# Data Analysis : Dates Utilized

## Pre-OAPM Dates

- **North Flow**

- 2/23/2014
- 2/21/2014
- 2/20/2014
- 2/19/2014
- 2/17/2014

- **South Flow**

- 2/8/2014
- 2/9/2014
- 2/26/2014
- 2/27/2014
- 2/28/2014

## Post OAPM Dates

- **North Flow**

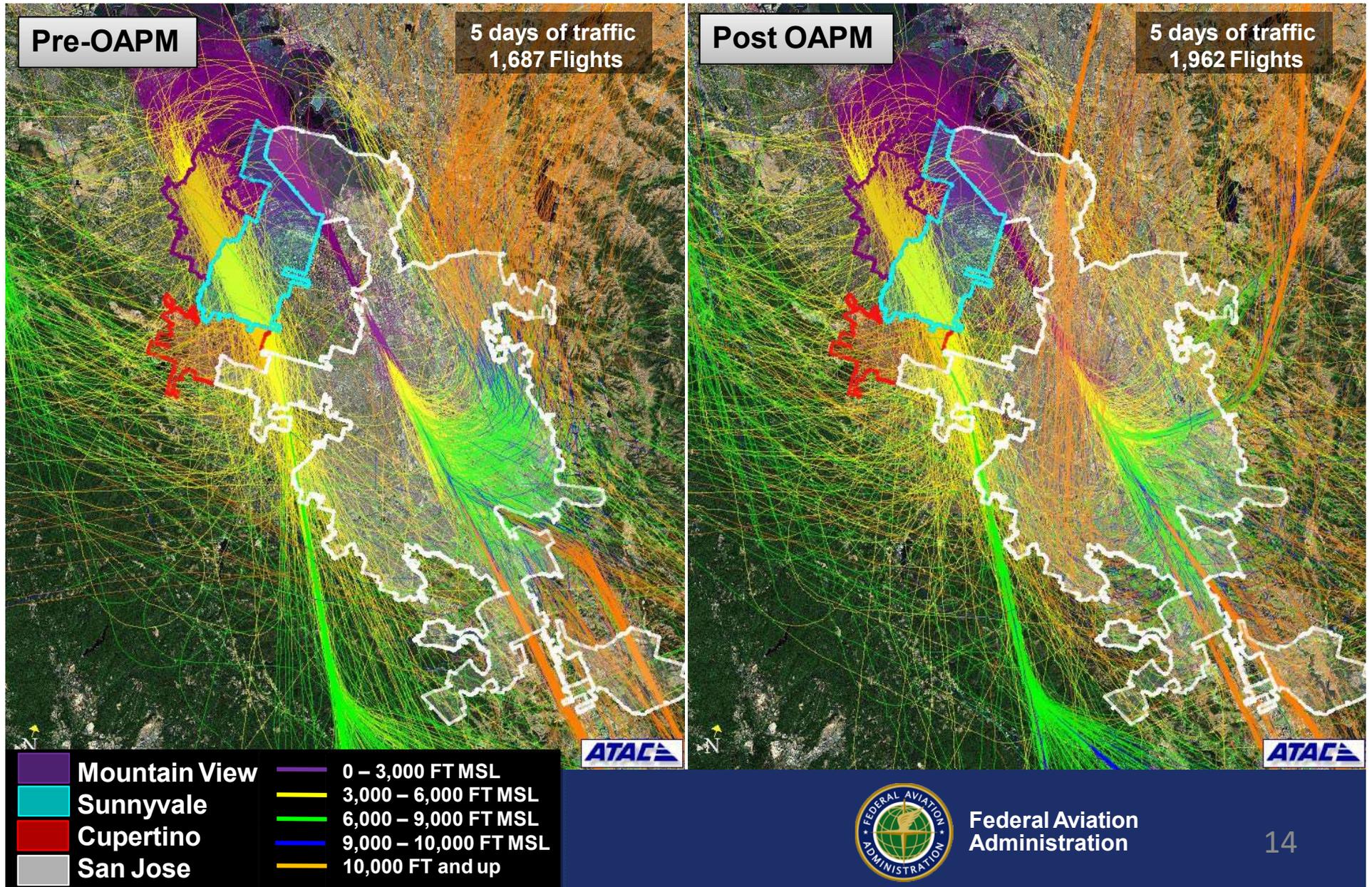
- 11/24/2016
- 11/29/2016
- 12/01/2016
- 12/02/2016
- 12/29/2016

- **South Flow**

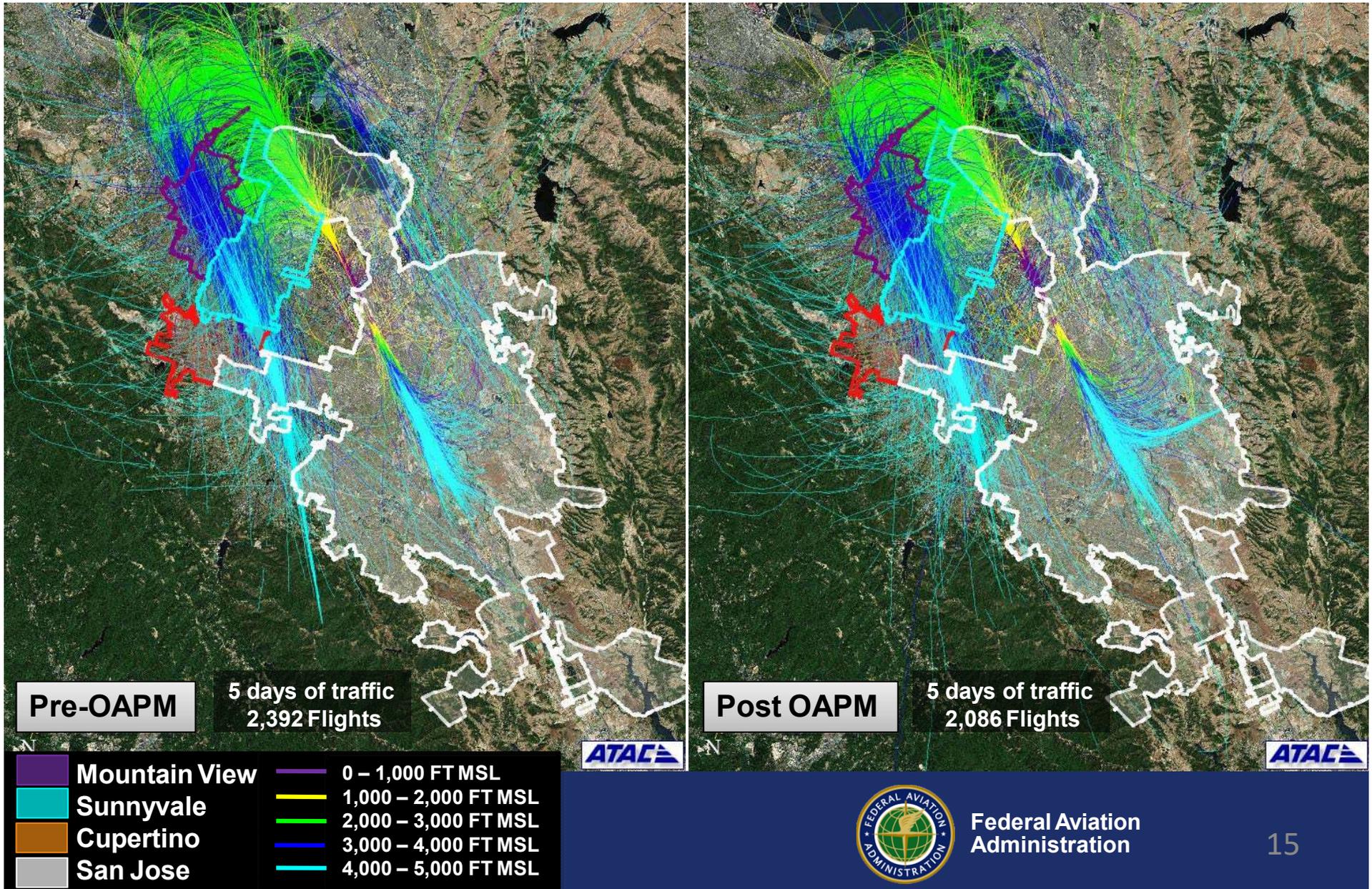
- 1/6/2016
- 1/17/2016
- 3/10/2016
- 10/16/2016
- 10/25/2016



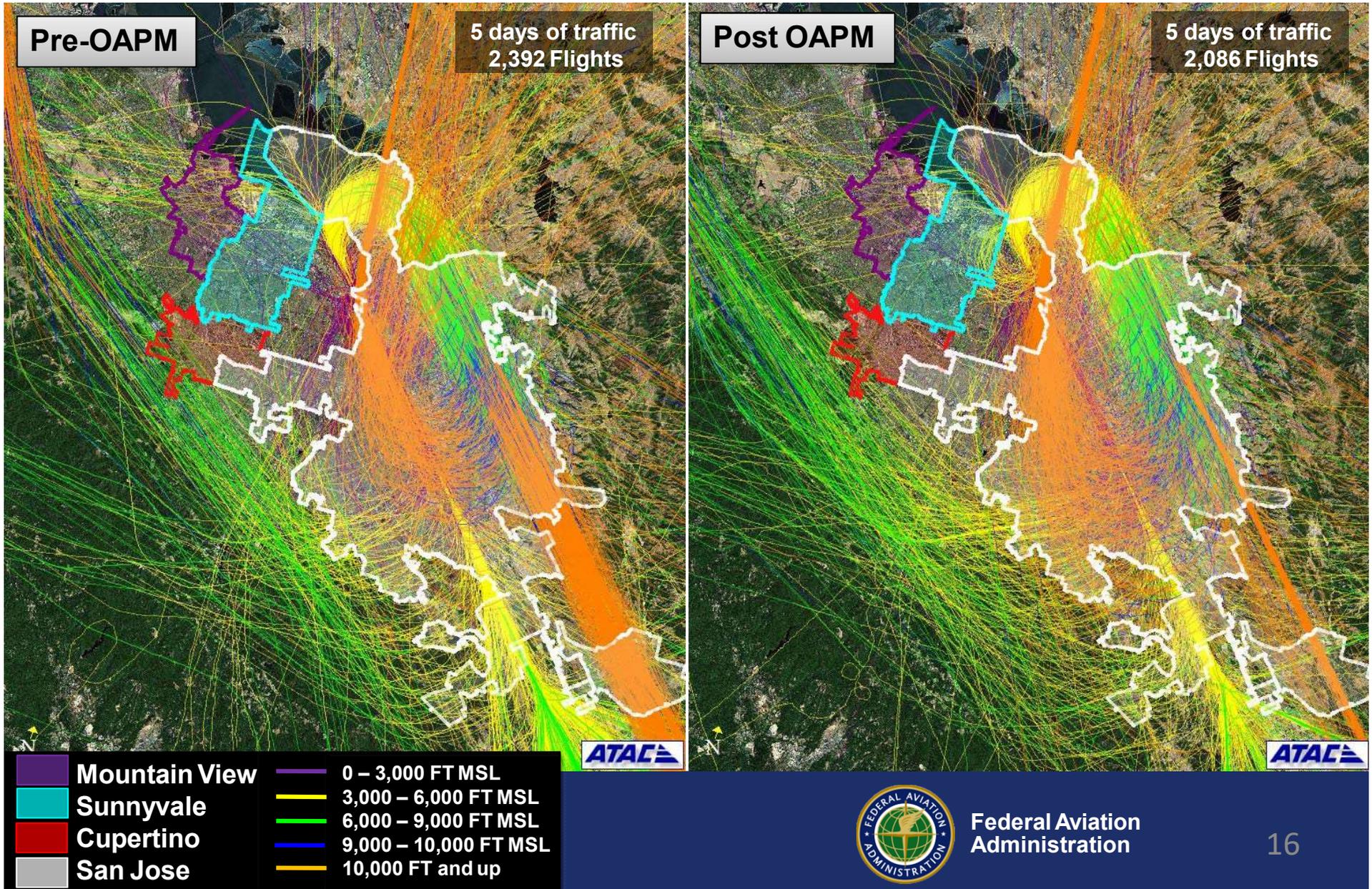
# South Flow SJC Traffic



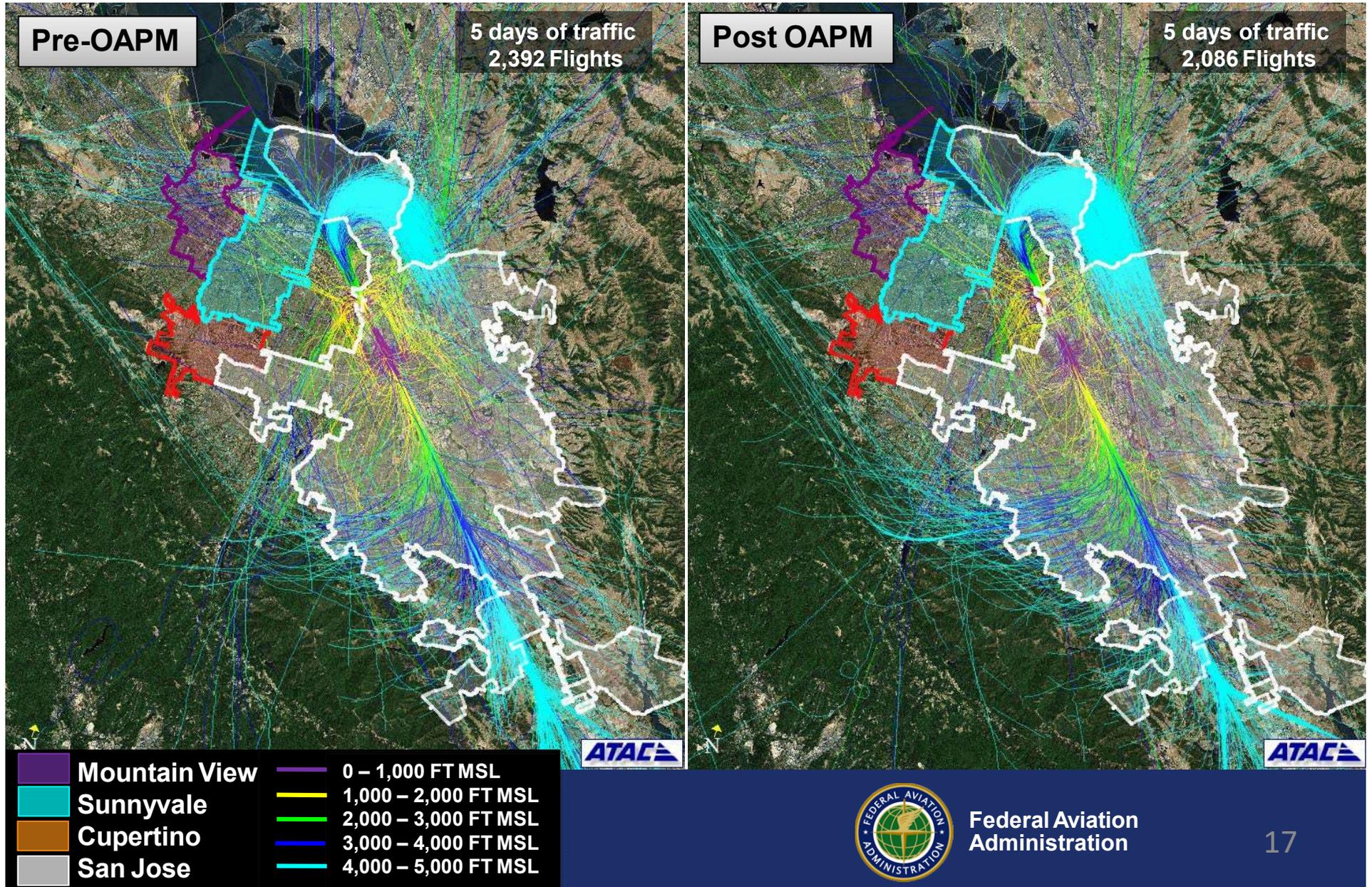
# South Flow SJC Traffic below 5,000 FT MSL



# North Flow SJC Traffic

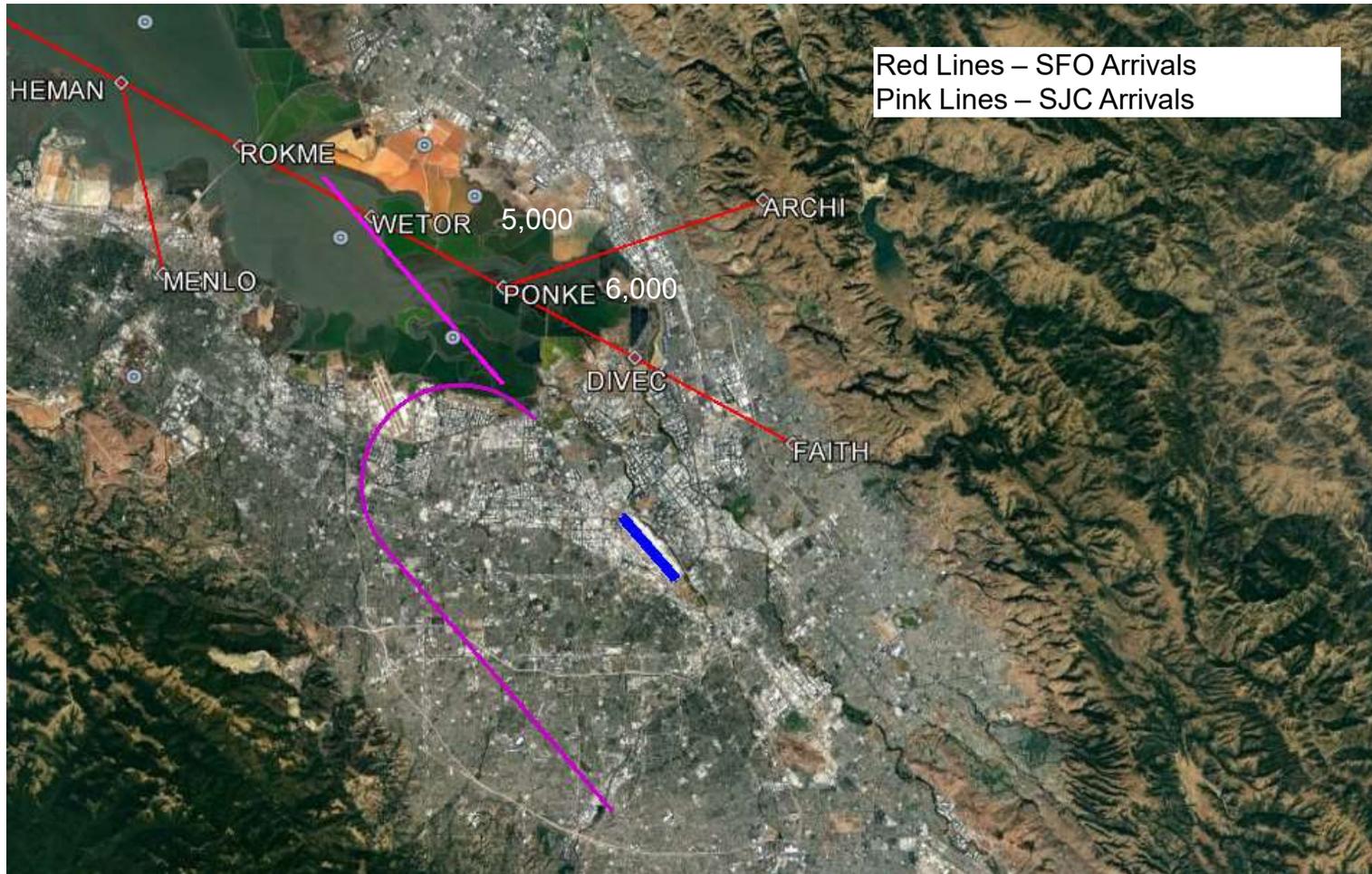


# North Flow SJC Traffic below 5,000 FT MSL



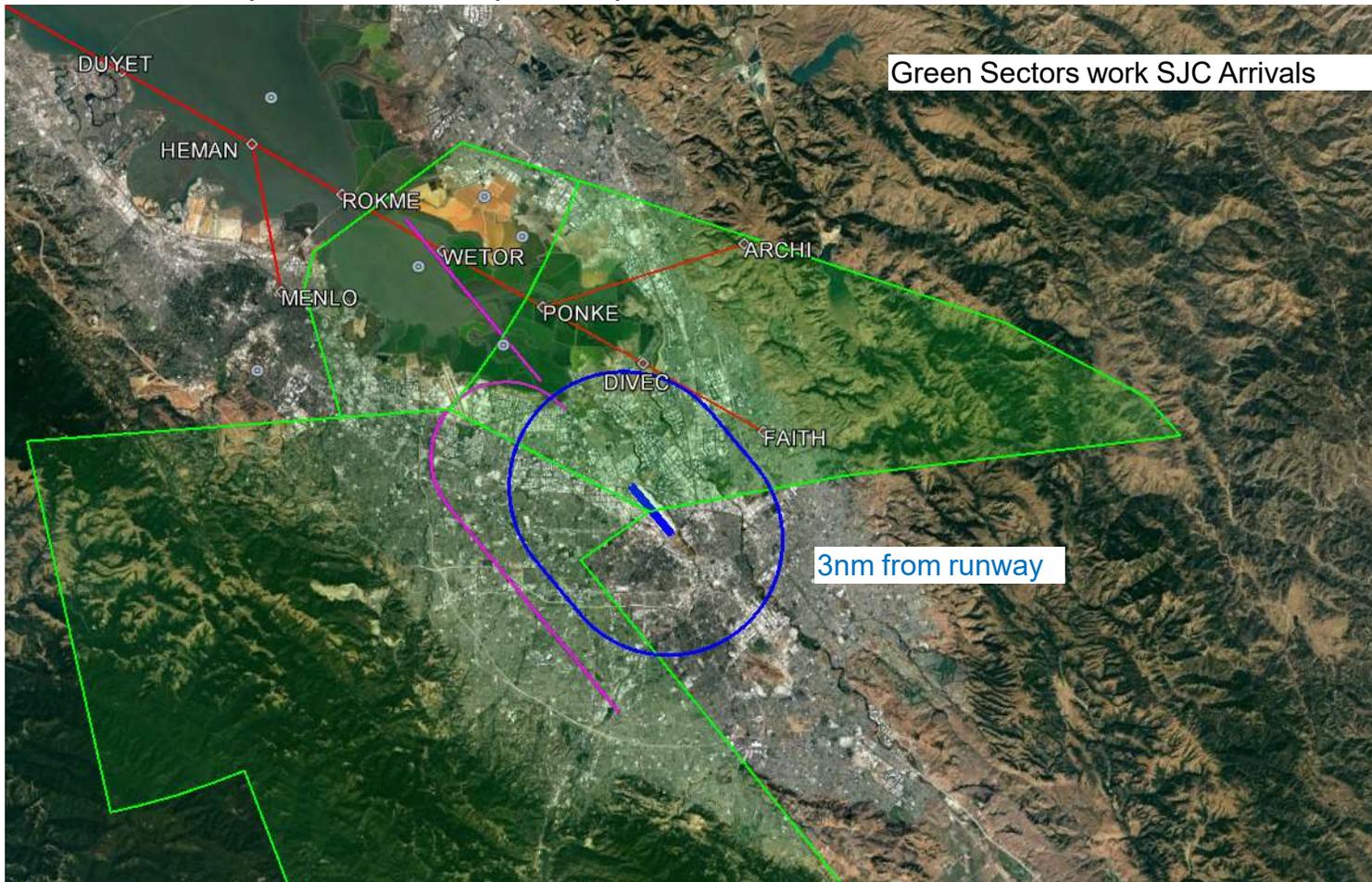
# South Flow Airspace/Traffic Constraints

1. SJC is on South flow when SFO is on a West flow more than 95% of the time.
2. SJC arrivals must be kept below the SFO arrivals and inside of ROKME.



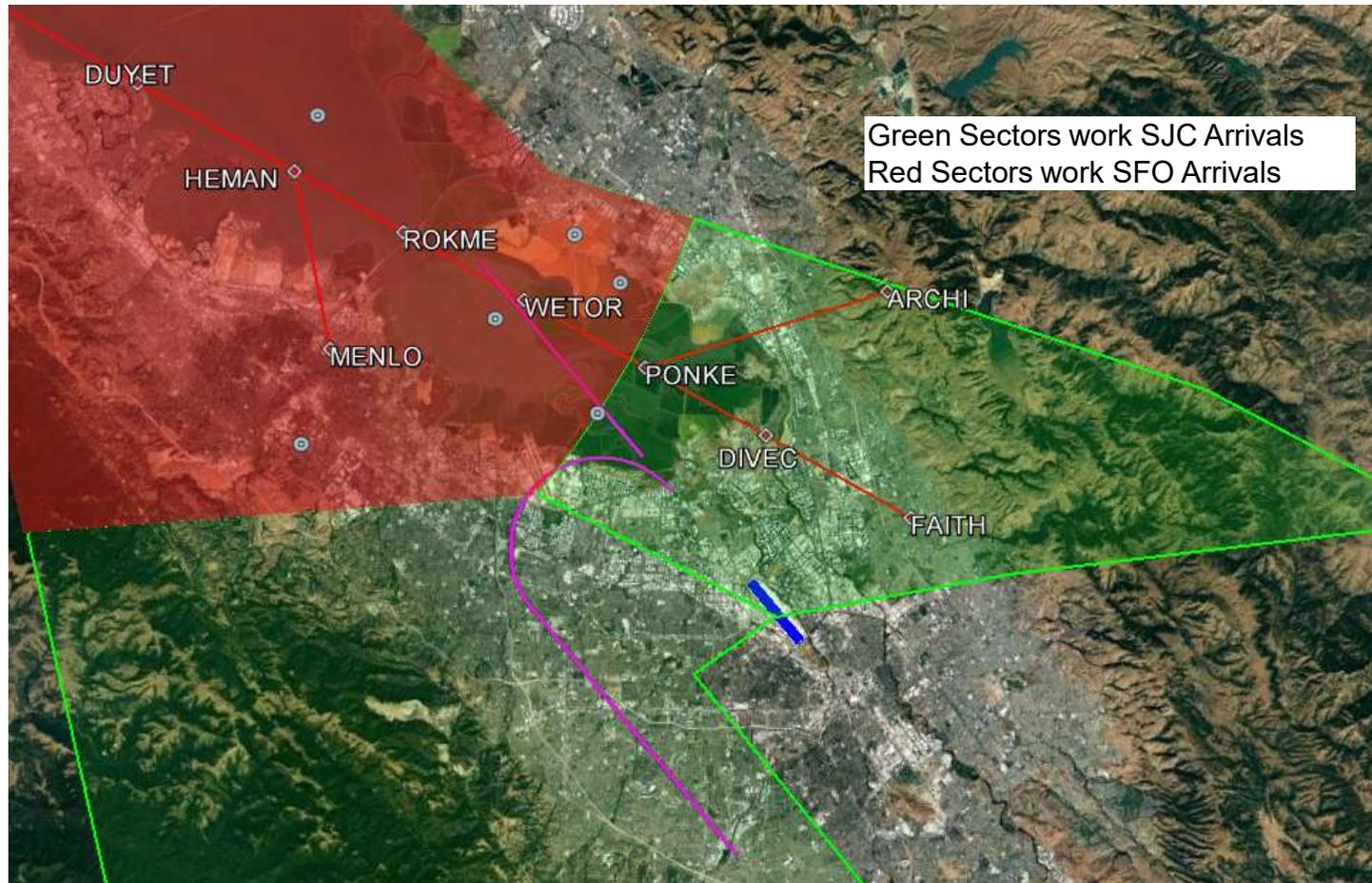
# South Flow Airspace/Traffic Constraints

3. Traffic must remain 3nm from runways while on downwind
4. NCT sector airspace is designed around the procedures that the controller works. Aircraft must be kept within the airspace to protect it from aircraft that other controllers are working.



# South Flow Airspace/Traffic Constraints

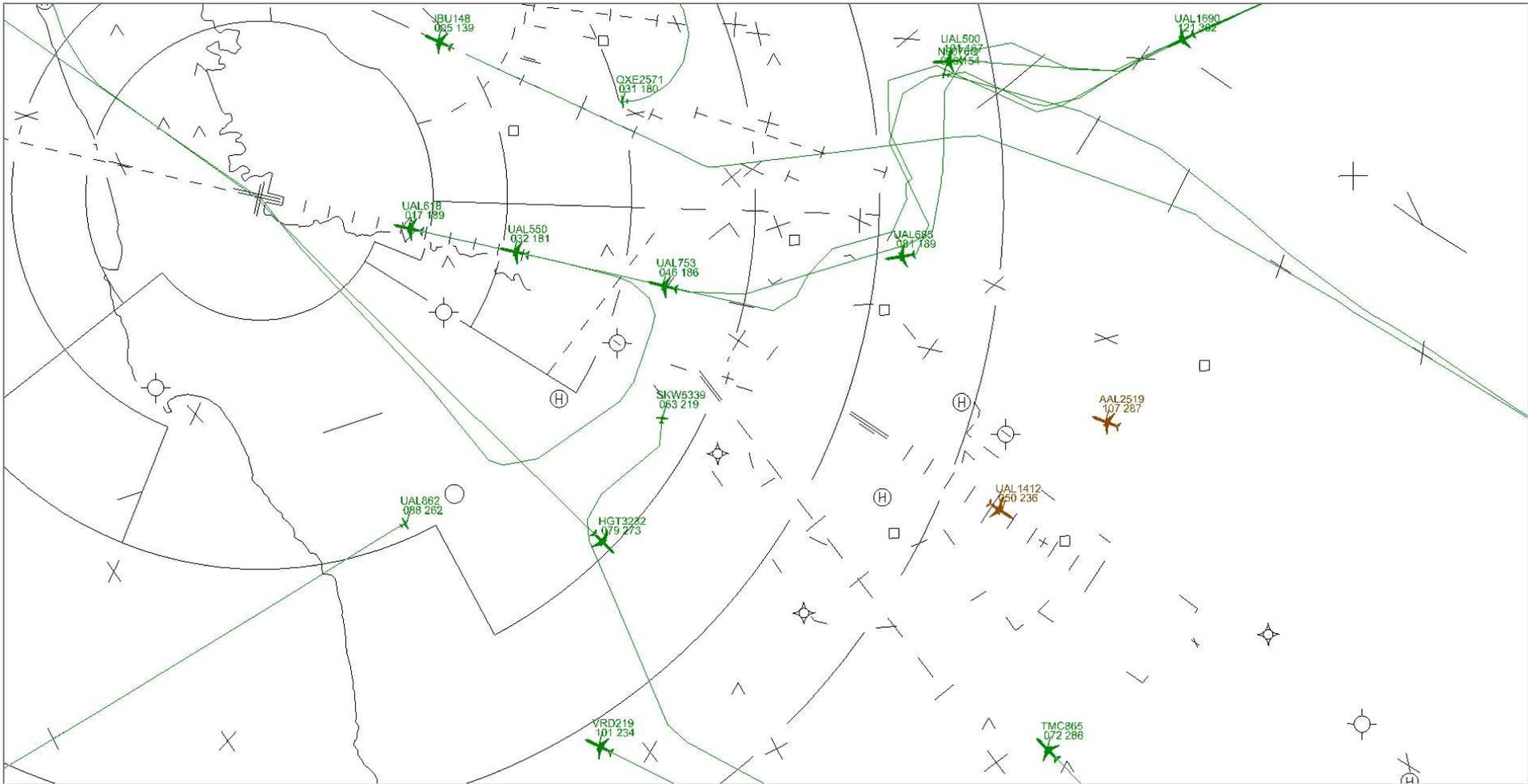
4. NCT sector airspace is designed around the procedures that the controller works. Aircraft must be kept within the airspace to protect it from aircraft that other controllers are working.



# Constraints on an East Downwind

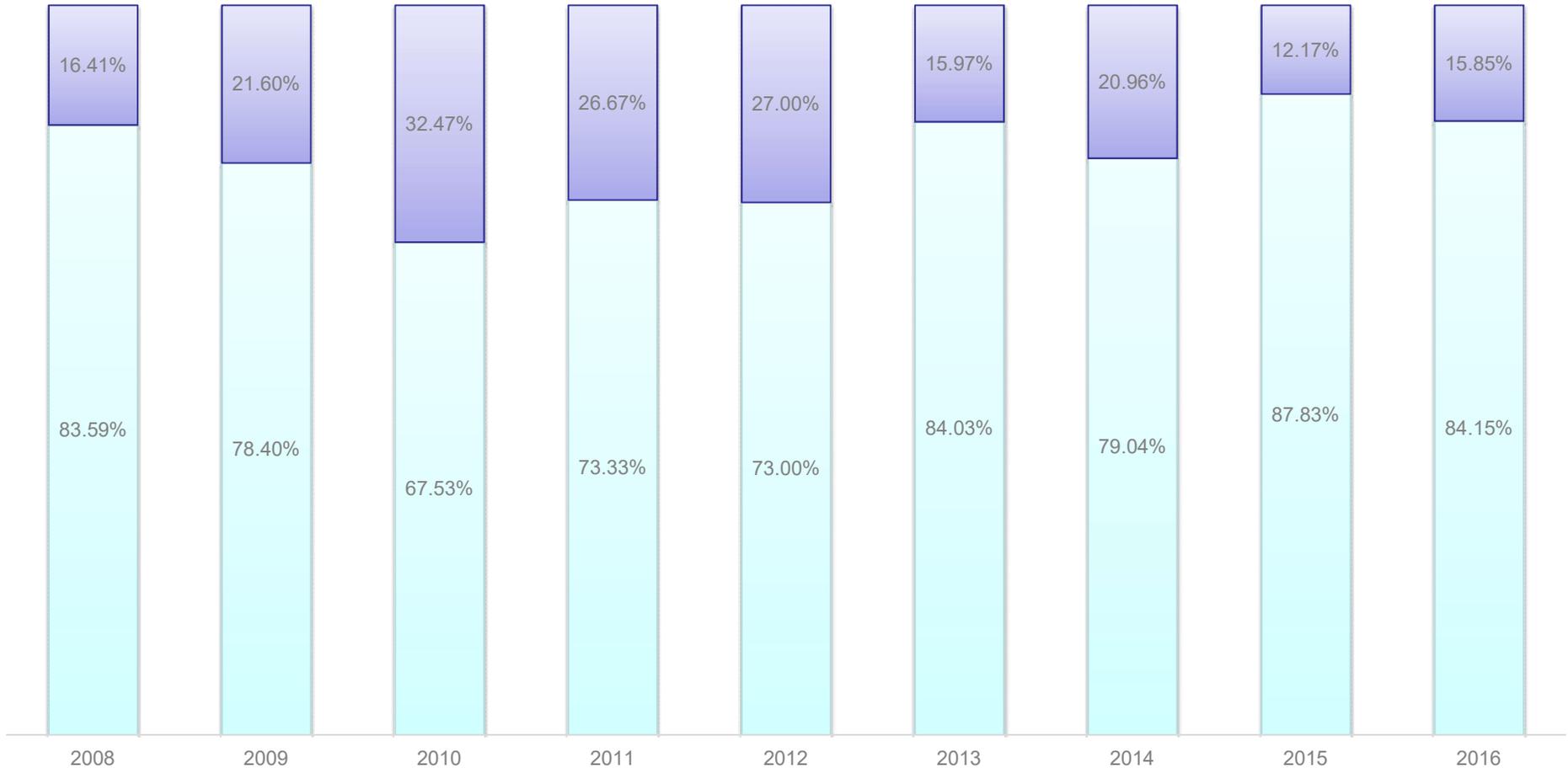
1. Traffic must remain 3nm from runways while on downwind
2. SJC is on South Flow when SFO is on a West Flow more than 95% of the time.
3. The SFO West final approach course is on the east side of SJC.
4. The mountains east of SJC force the aircraft to be higher.
5. Northbound SJC departures utilize the east side of the airport.
6. SJC Arrivals must be below SFO arrivals and below SJC Departures



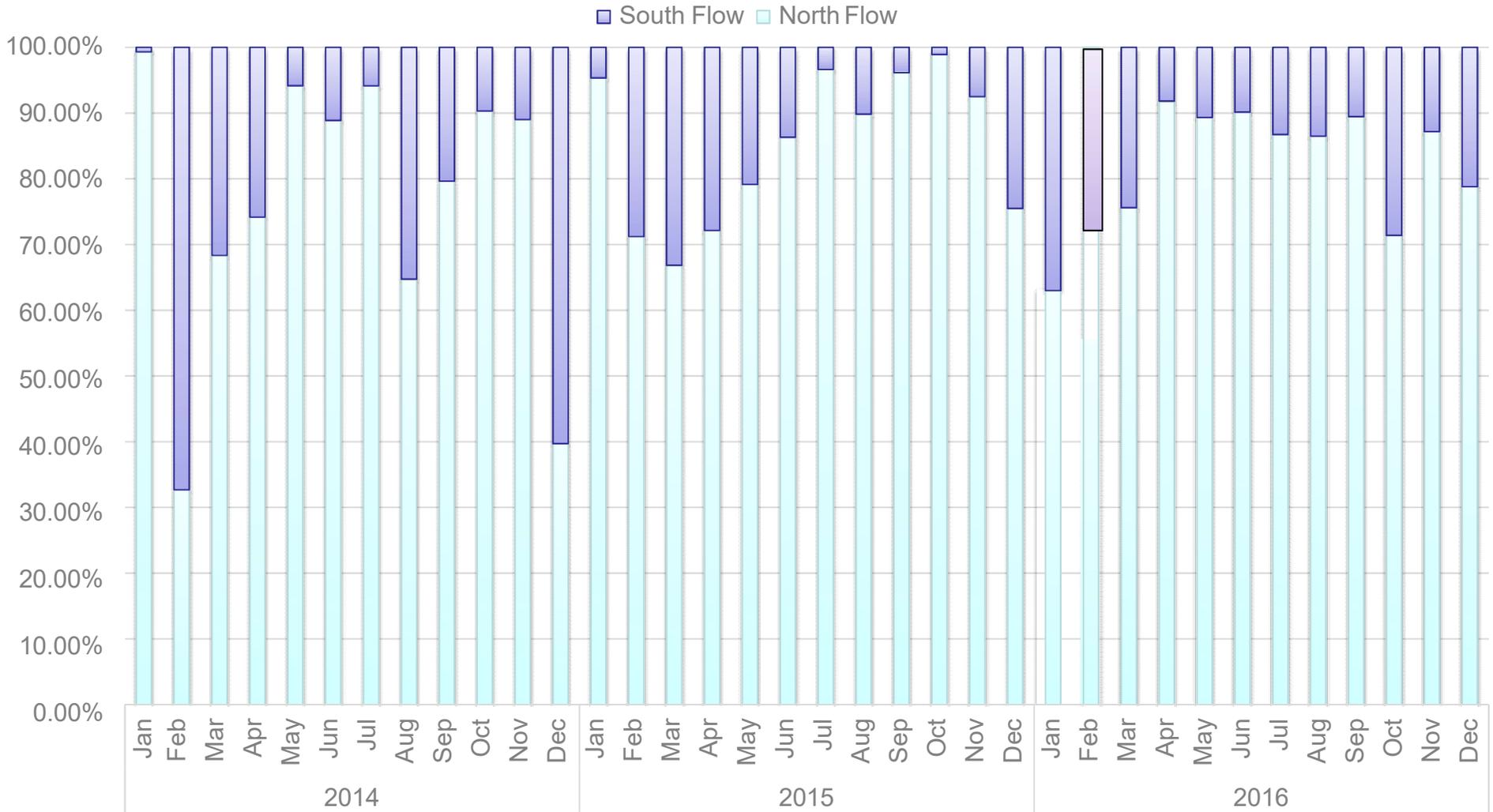


# SJC Runway Usage 2008 - 2016

North Flow South Flow



# SJC Runway Usage 2014 - 2016



# SJC Runway Usage - 2016

