# LAX Arrivals near La Habra Heights

Presented to: Los Angeles Round Table

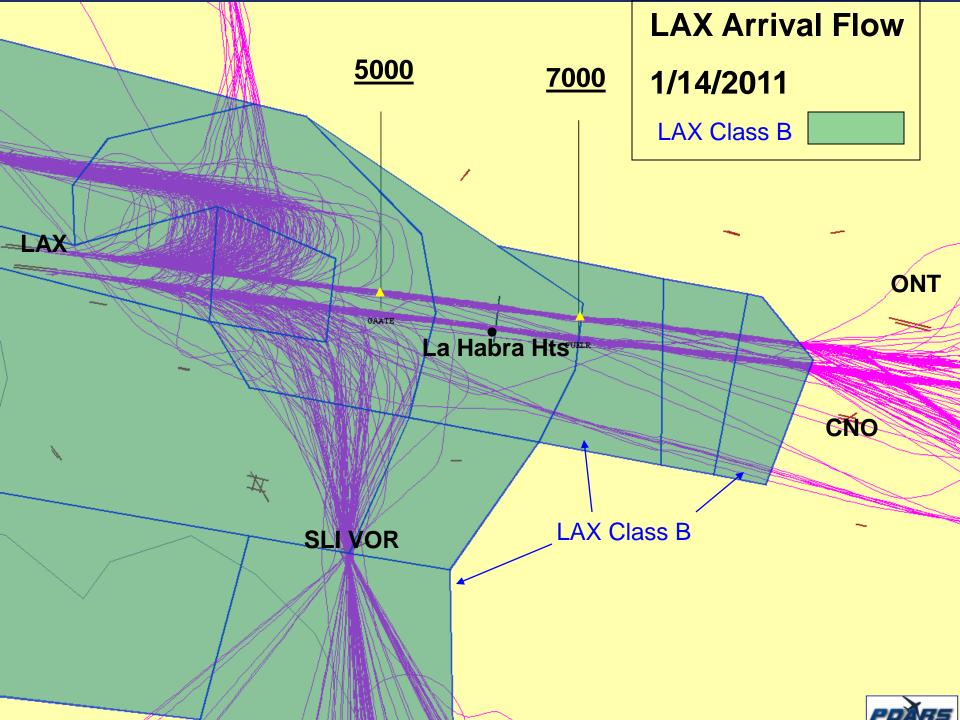
By: WSC Operations Support Group

Date: September 14, 2011

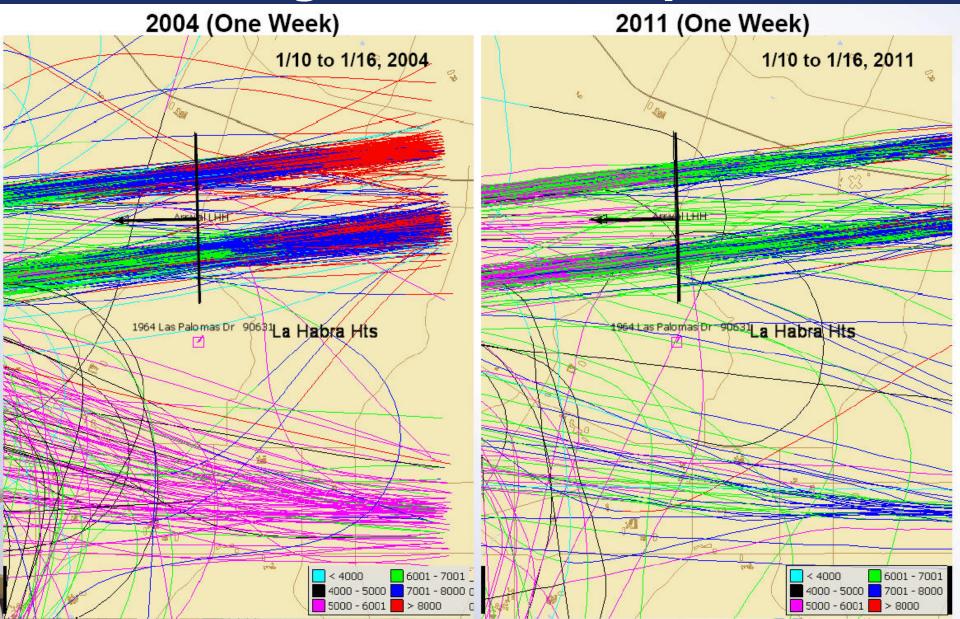


#### **Parameters**

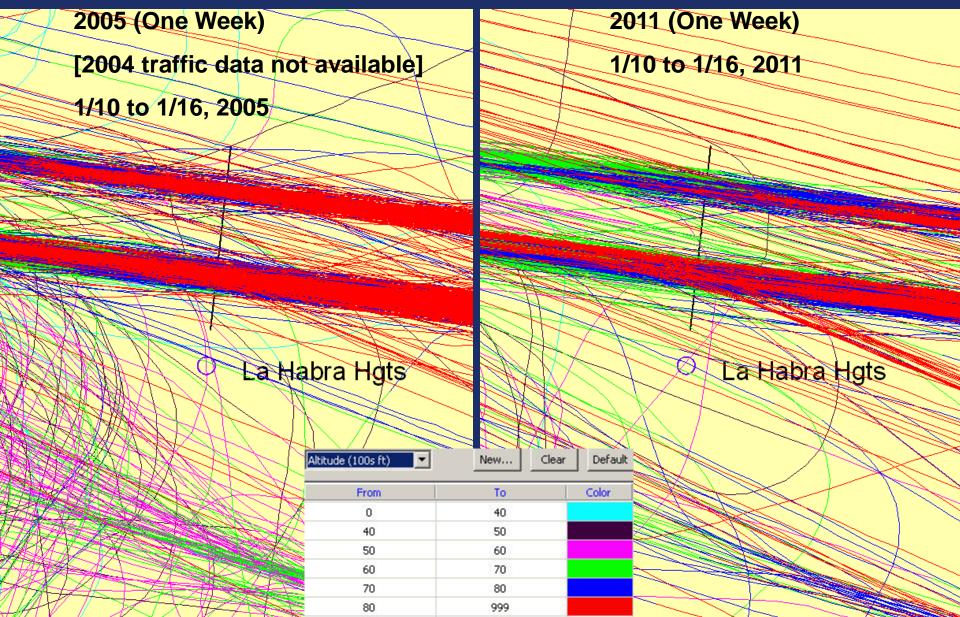
- Performance Data Analysis and Reporting System (PDARS) used for analysis
- Traffic for 2004 not available to system, so analysis started in 2005
- Analyzed select January and July weeks for 2005, 2008, 2009 and 2011
- Analyzed only arrivals from the east landing straight-in
- Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights



# **LAWA Flight Track Comparison**



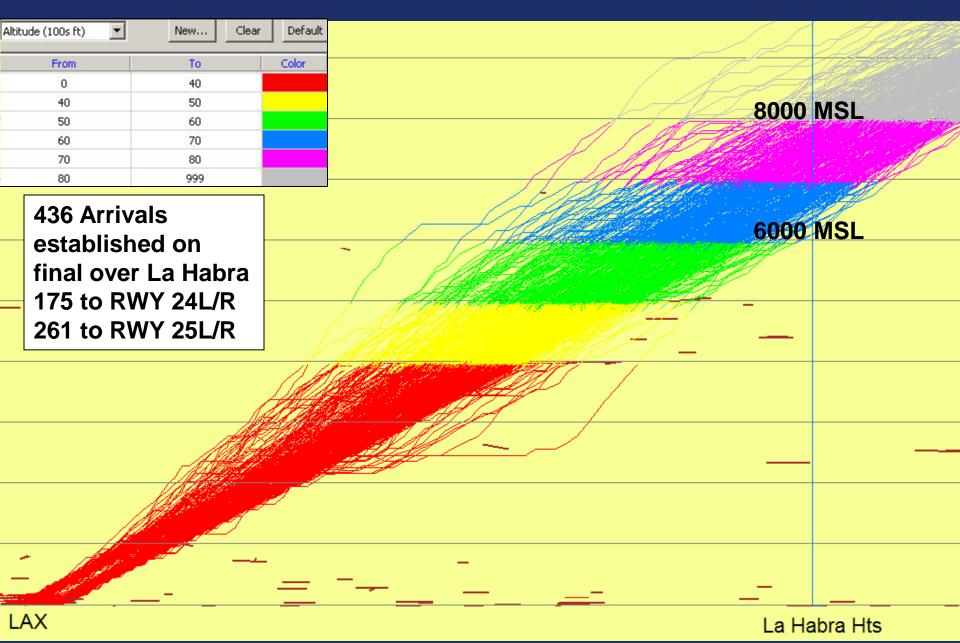
# FAA Flight Track Comparison



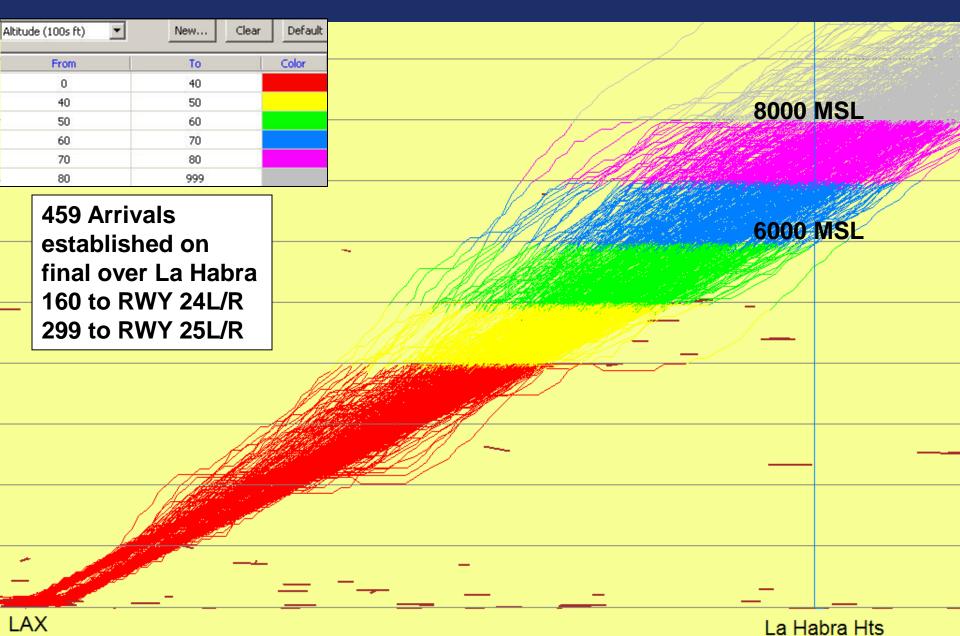
## **PDARS Analysis**

- The following slides show a single day of traffic from each of the weeks analyzed
- The slides depict a side view of traffic through a column of airspace over La Habra Heights

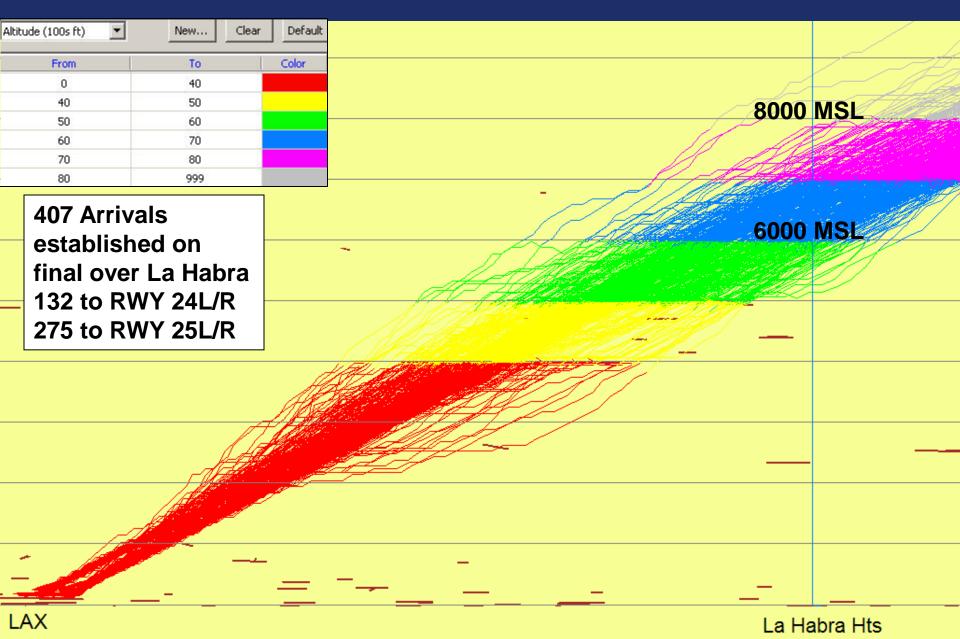
#### **LAX Arrivals 1/14/2005**



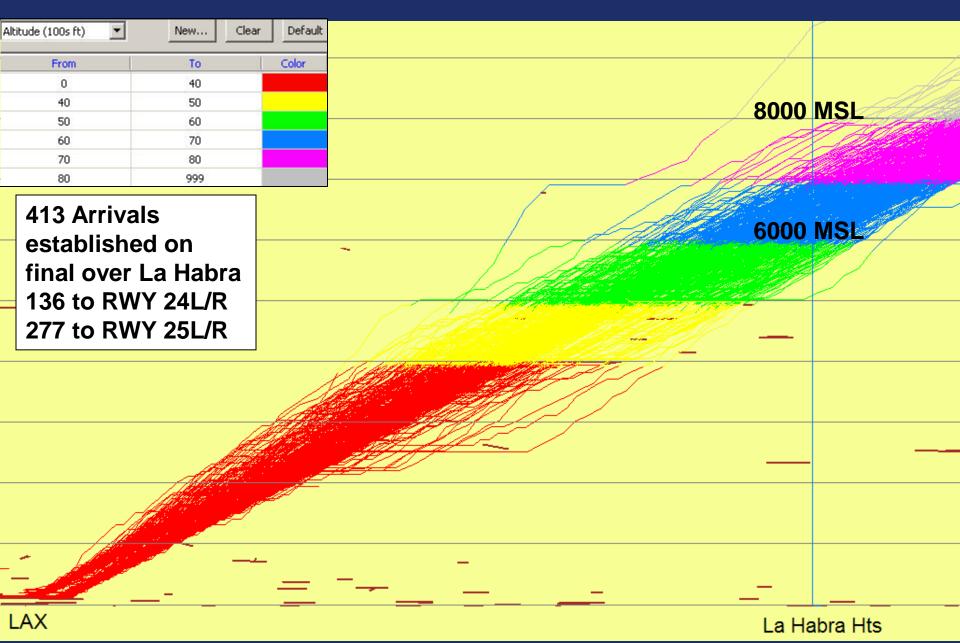
### **LAX Arrivals** 7/14/2005



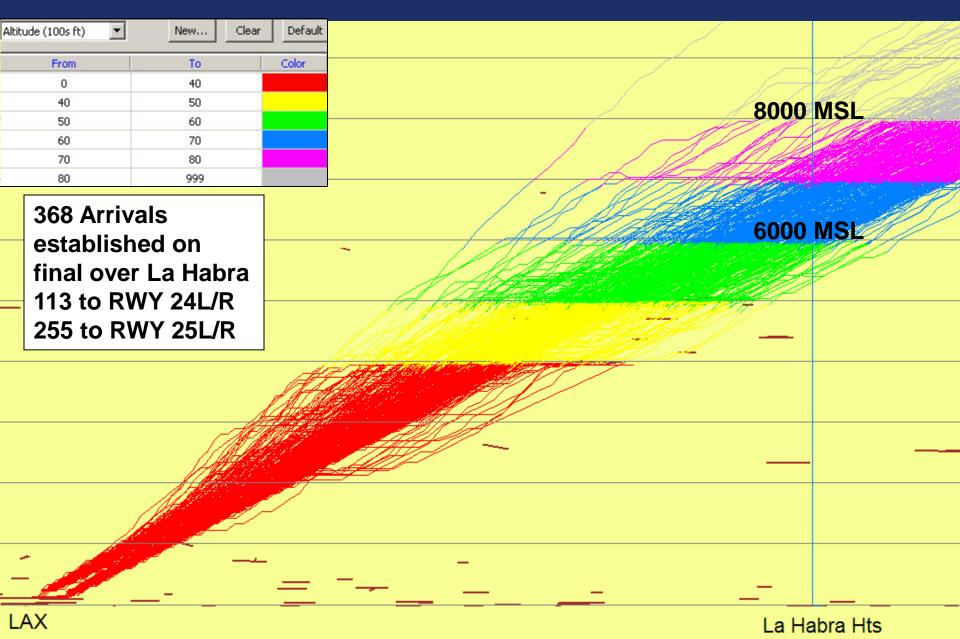
#### **LAX Arrivals 1/14/2008**



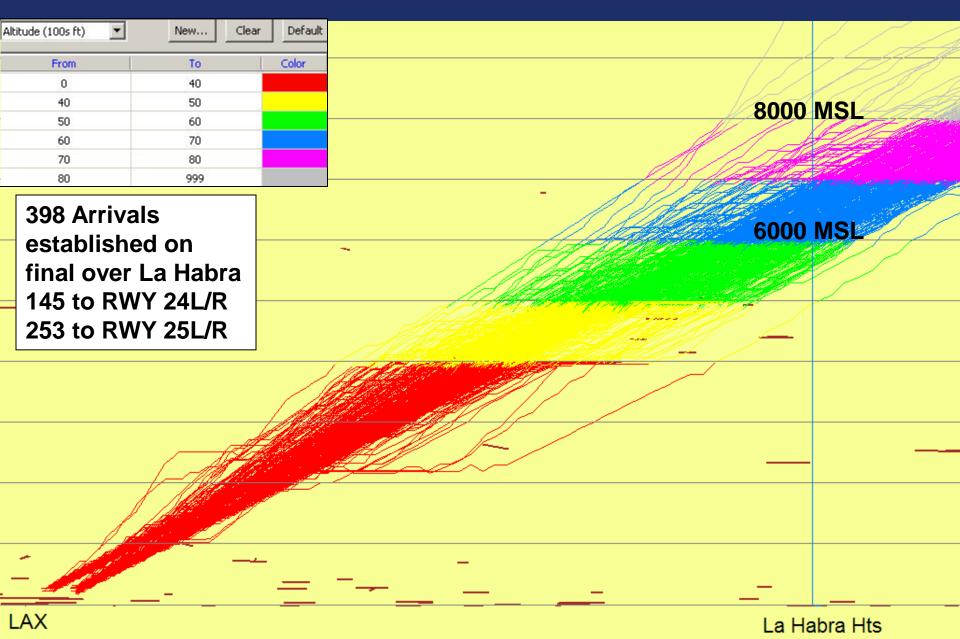
### **LAX Arrivals** 7/14/2008



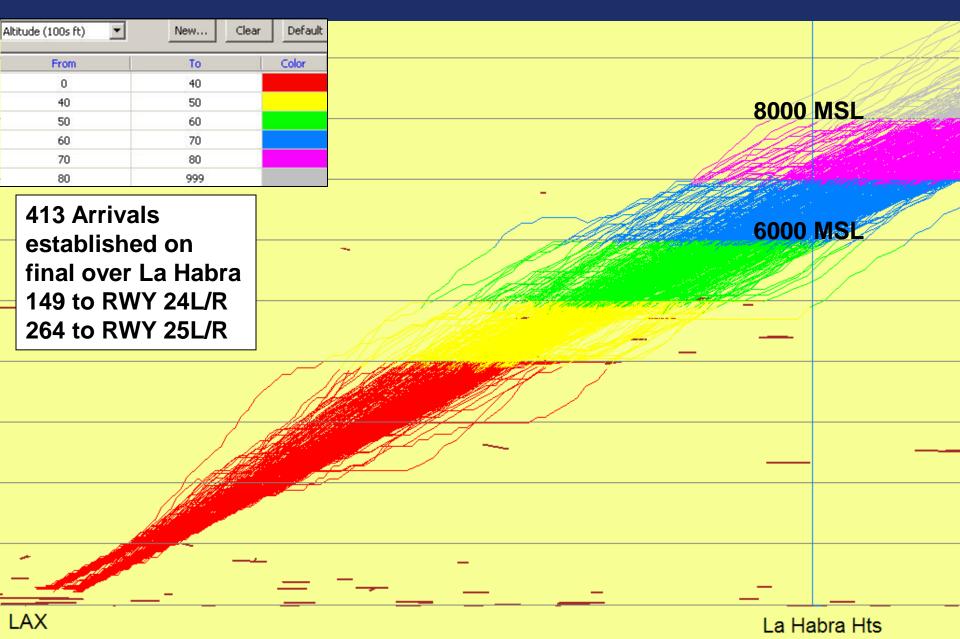
#### **LAX Arrivals 1/14/2009**



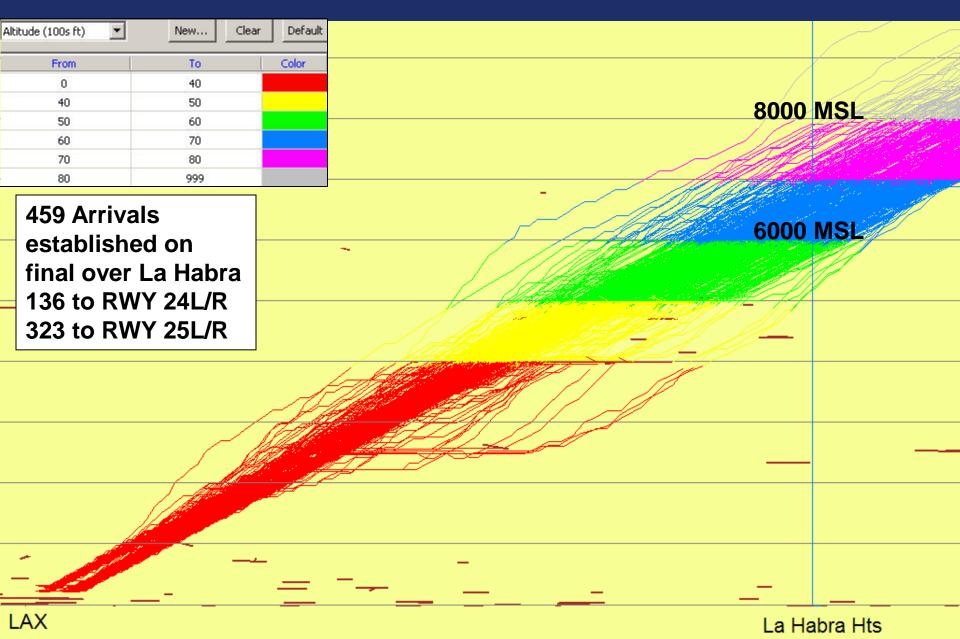
### **LAX Arrivals** 7/14/2009



#### **LAX Arrivals 1/14/2011**

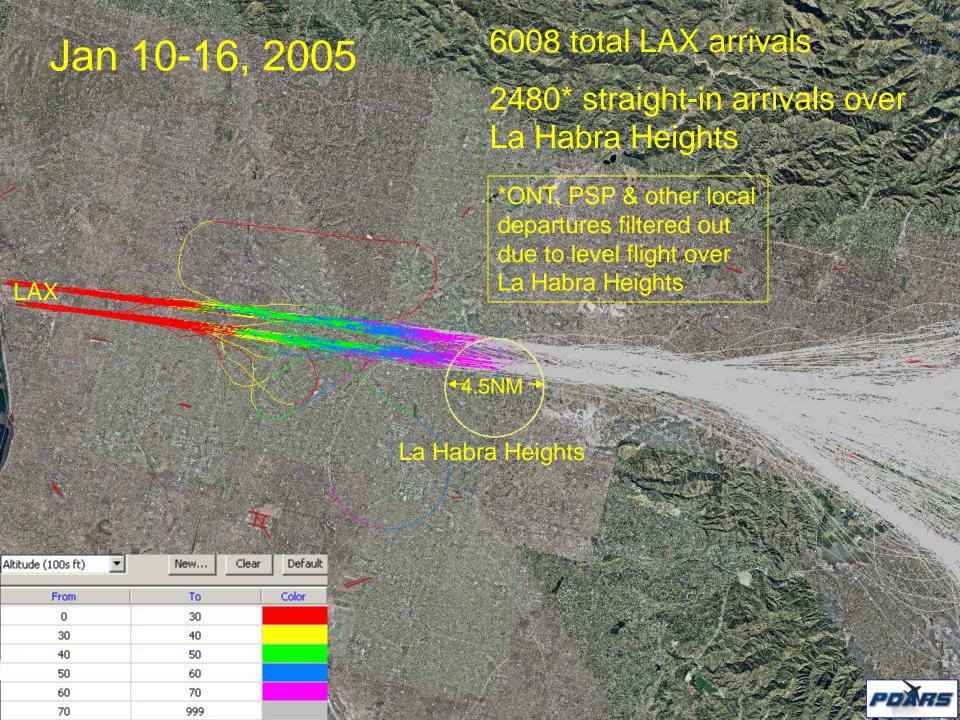


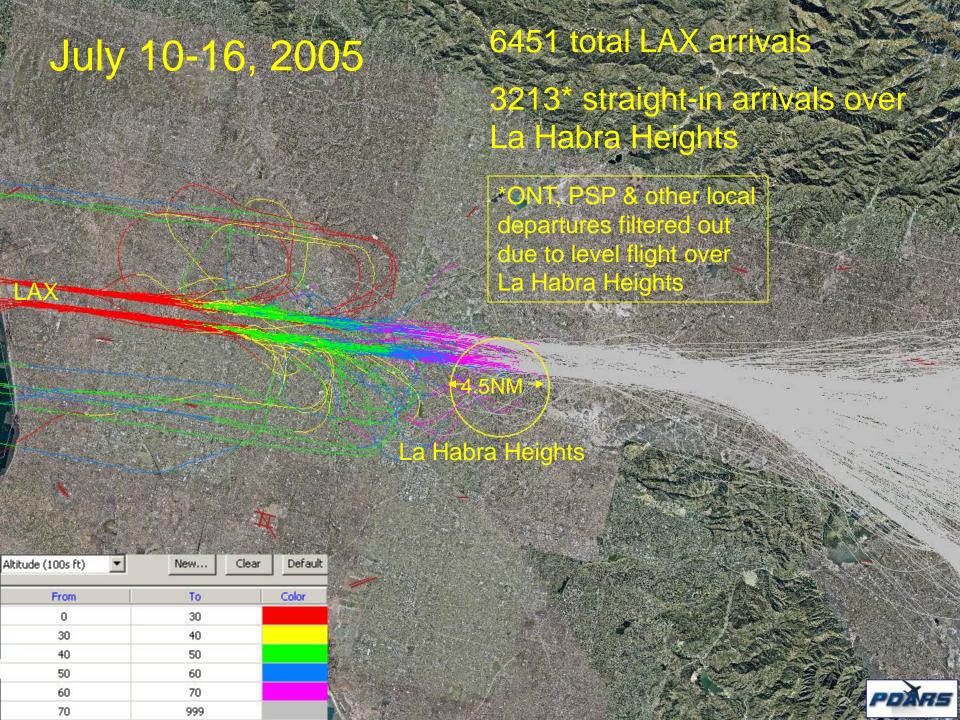
### **LAX Arrivals** 7/14/2011

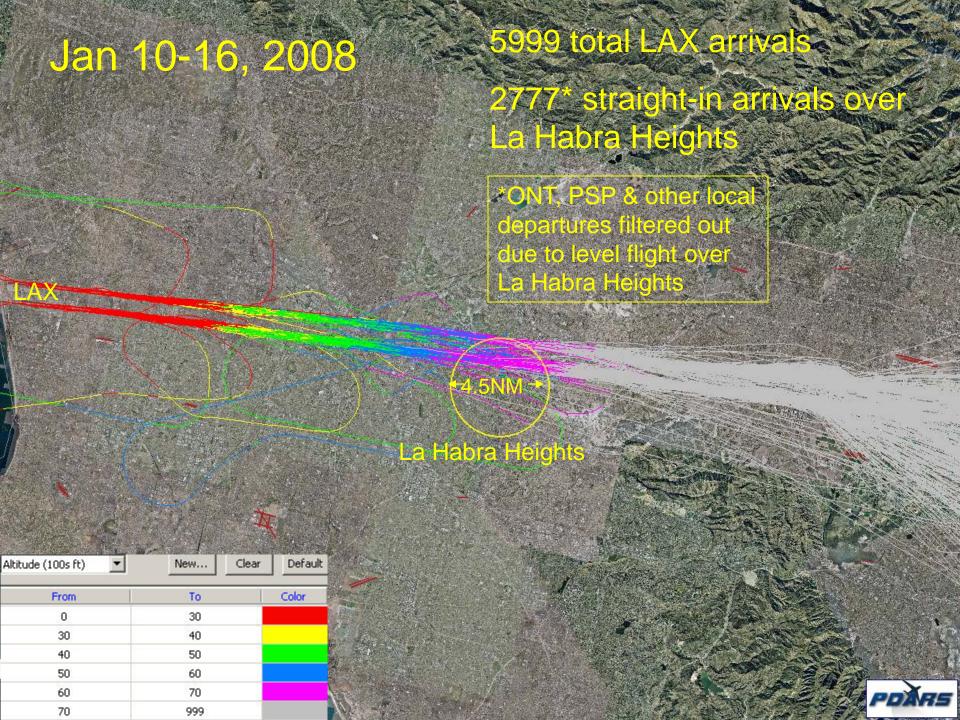


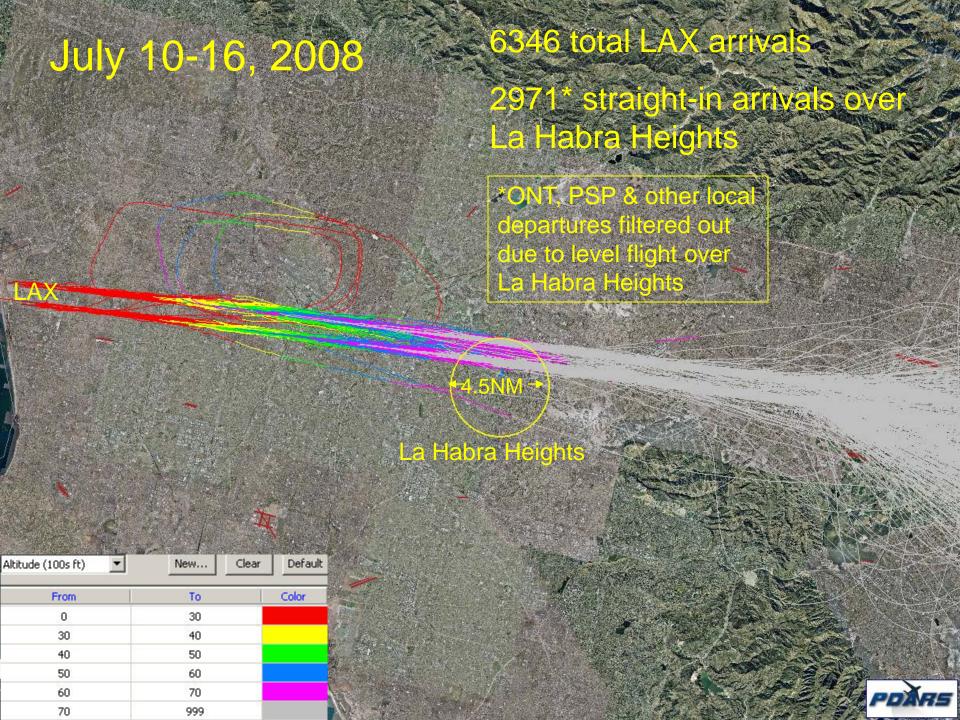
# **PDARS Analysis**

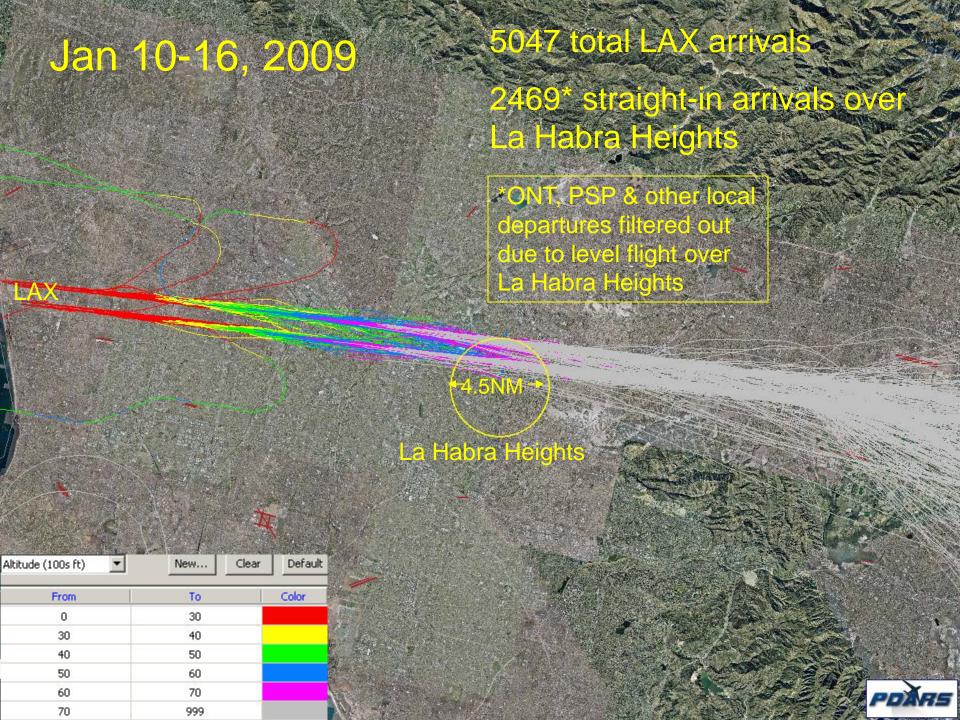
- The following slides depict an entire week of traffic displayed on a background of satellite imagery
- Only arrivals landing straight-in from the east are included
- Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights

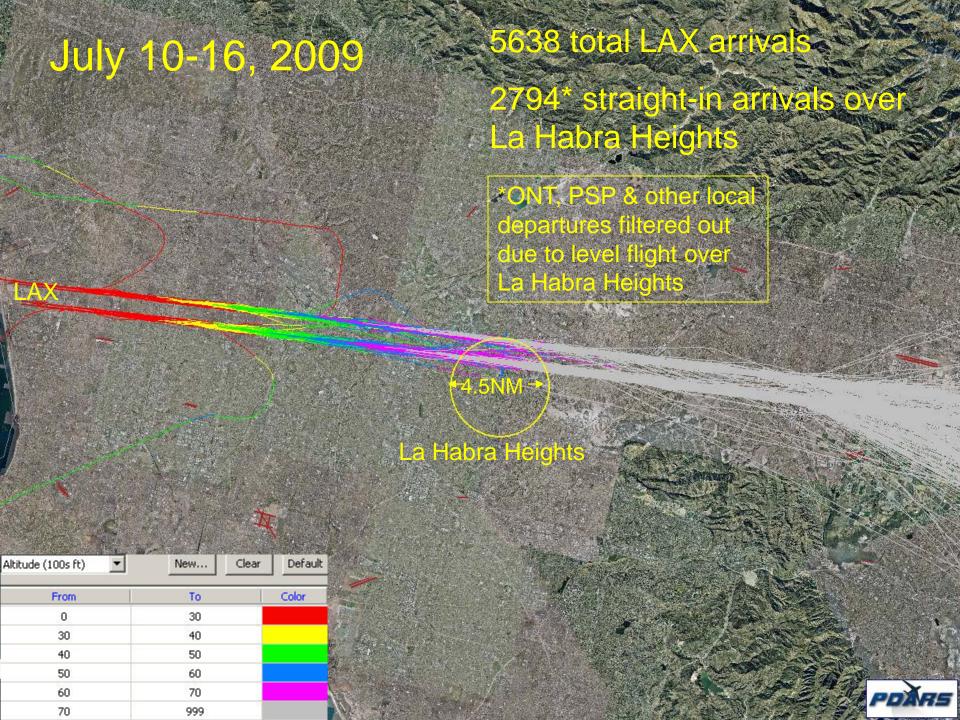


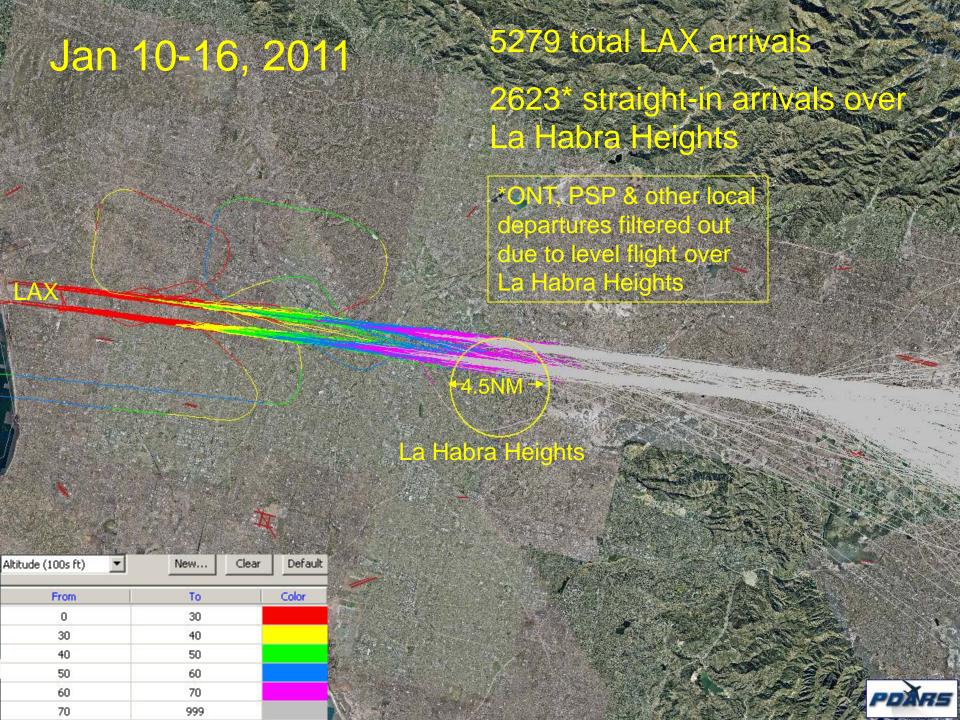


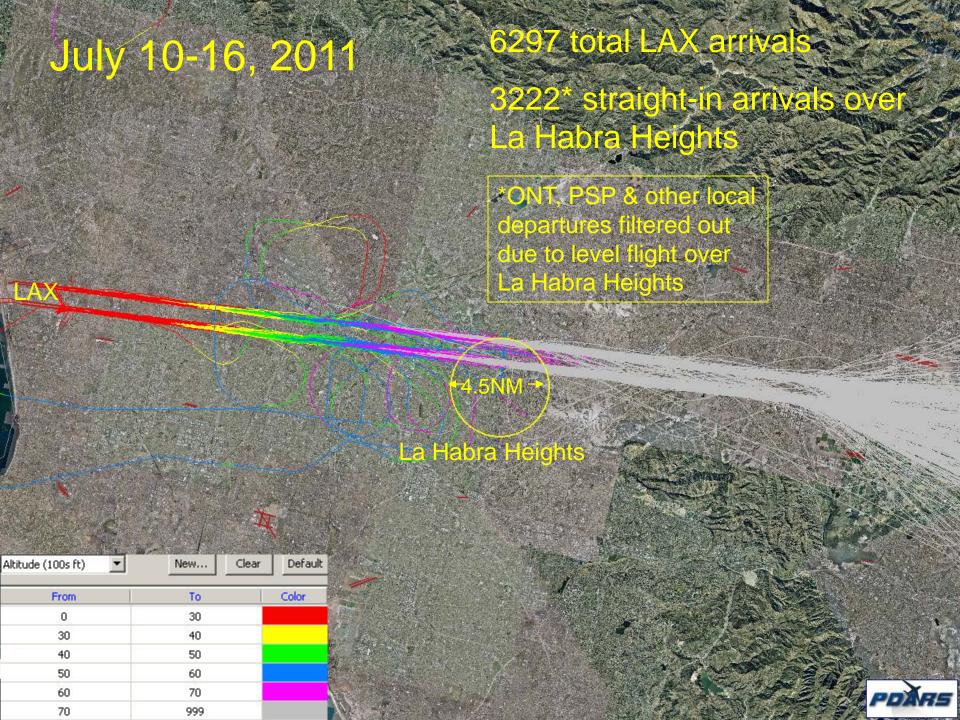






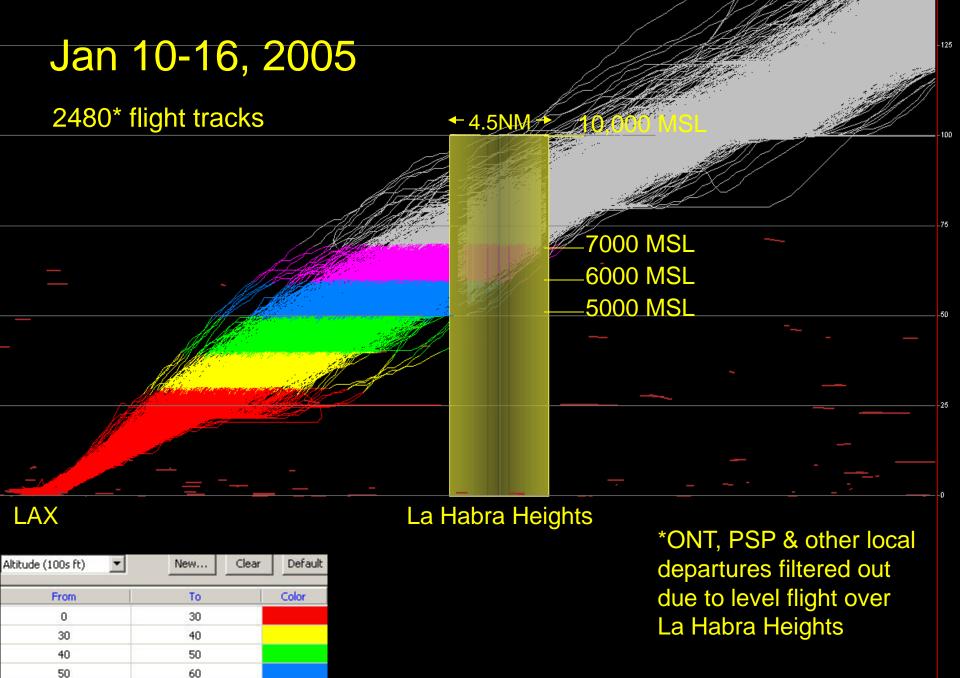




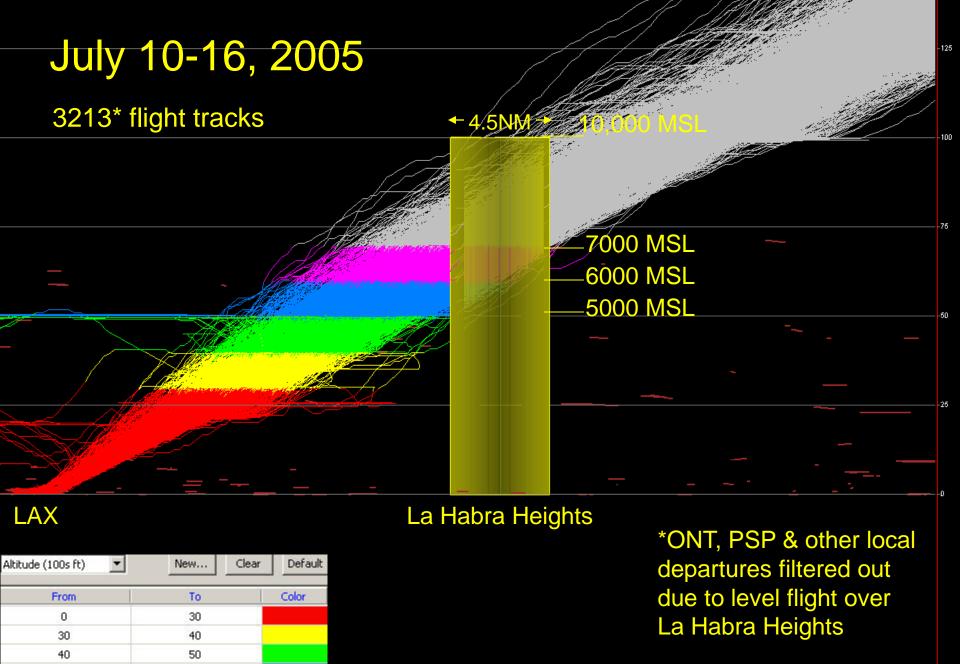


# **PDARS Analysis**

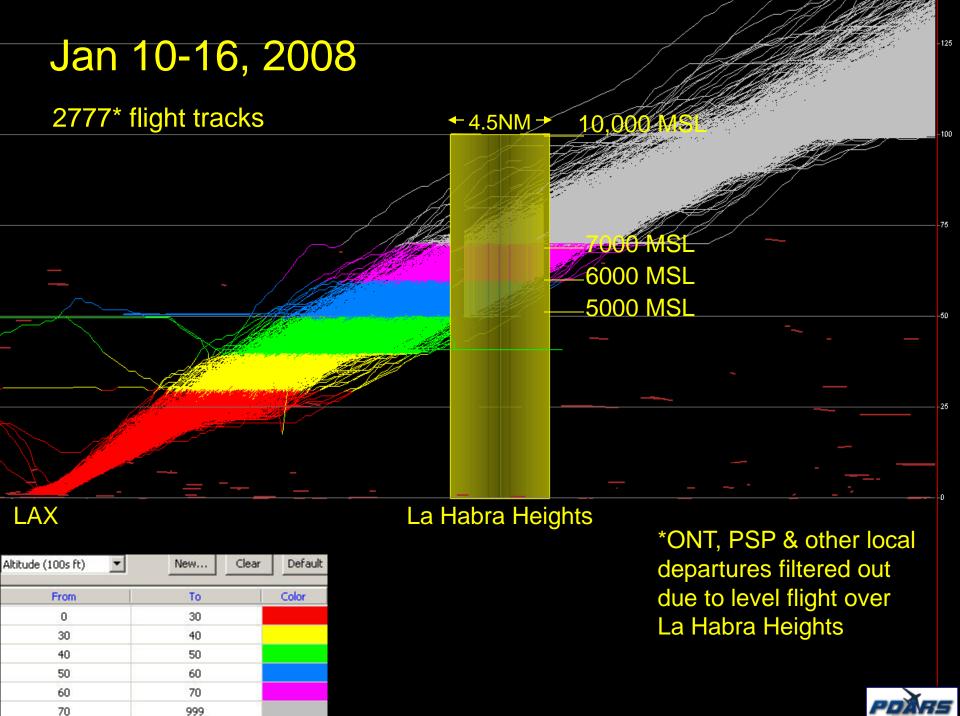
- The following slides show a side view of an entire week of traffic for the weeks analyzed
- Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights

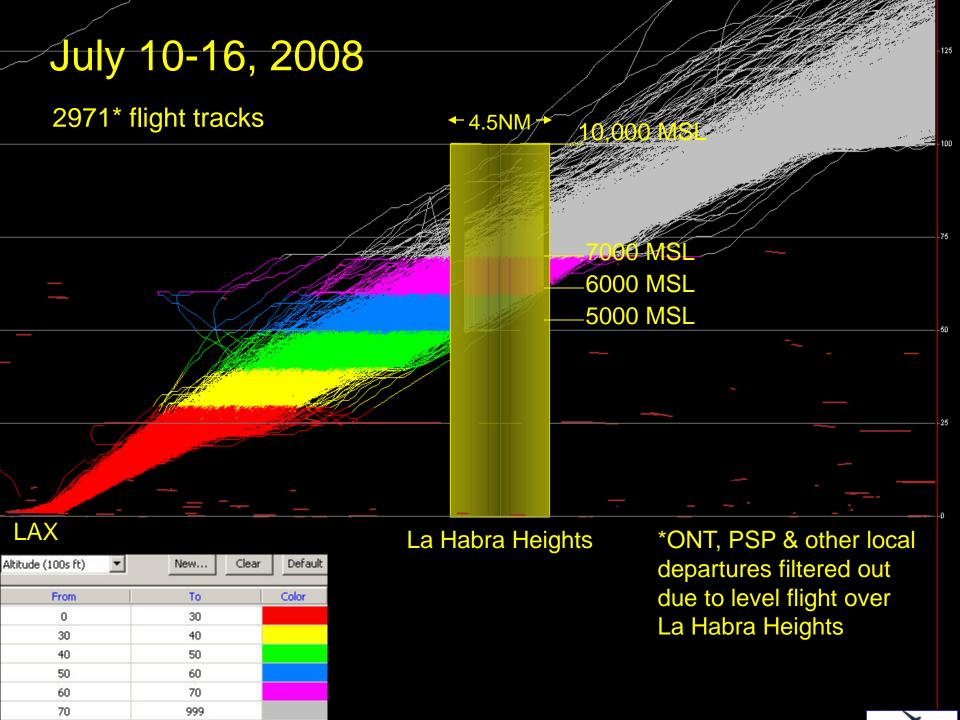


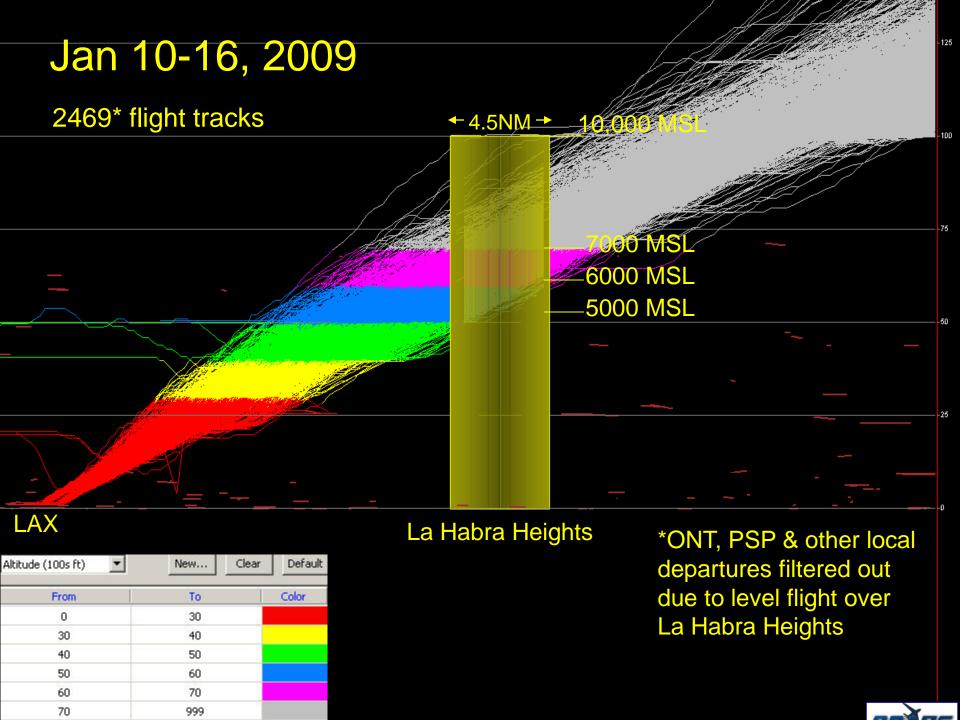


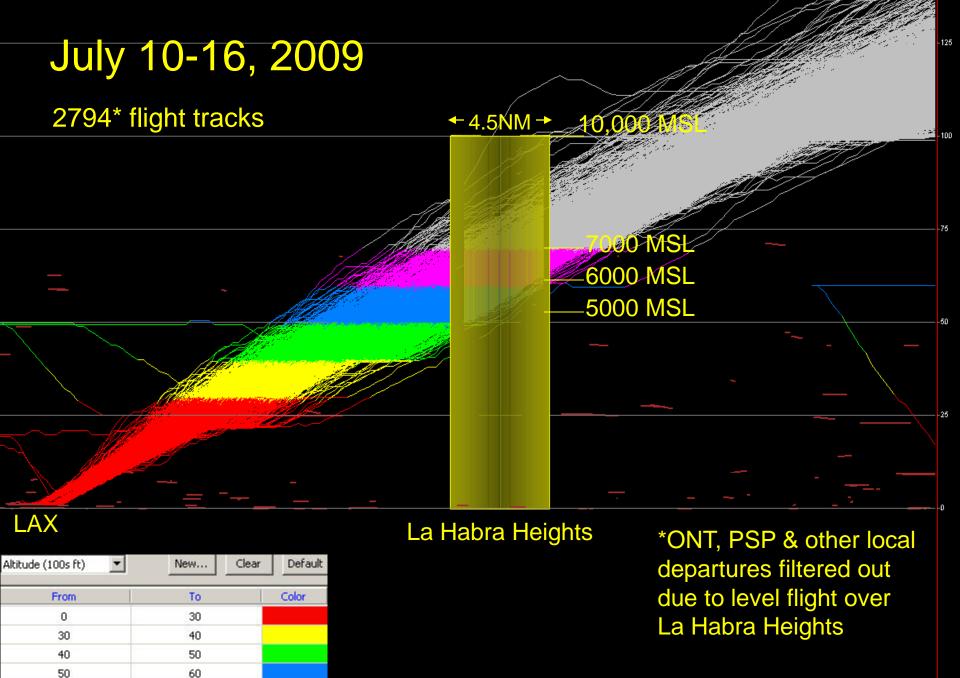


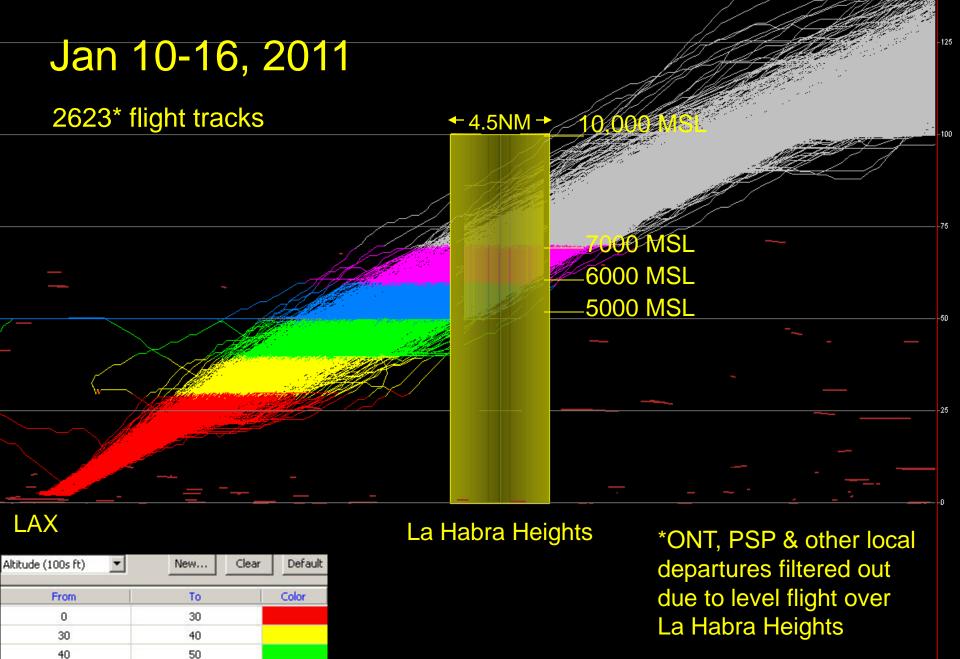
POÀRS



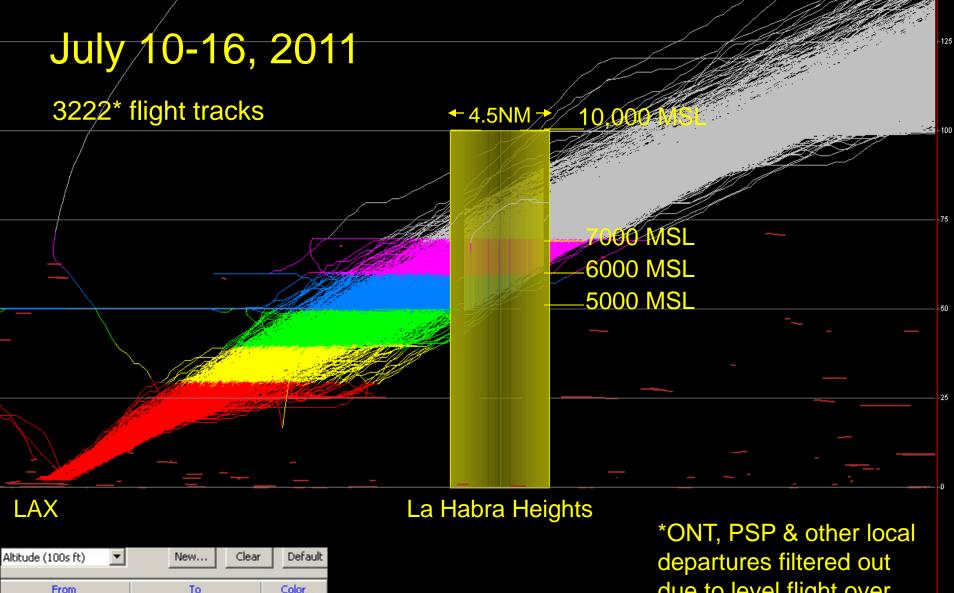








POÀRS



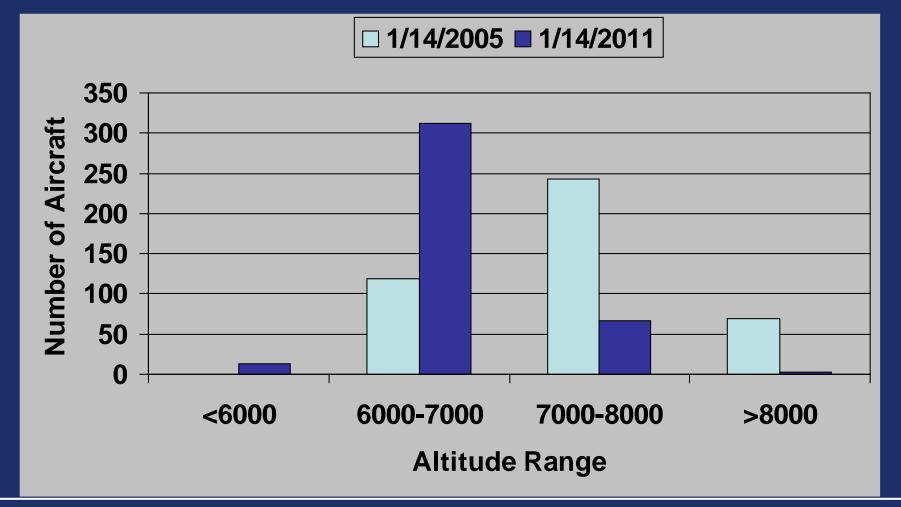
From To Color 

due to level flight over La Habra Heights



## **Arrival Altitude Comparison**

Arrivals from nearby airports (ONT, PSP) not included



# **Arrival Altitude Comparison**

- One day (January 14) from 2005 and 2011
- Average altitude in 2005 was 7400 ft MSL
- Average altitude in 2011 was 6600 ft MSL
- Arrivals originating from nearby airports such as ONT and PSP are not included due to level flight over La Habra Heights

#### Conclusions

- Currently most LAX arrivals from the east are on a profile descent (SEAVU2 or RIIVR2 Arrival) that allows for a transition to RWY 24/25 ILS approaches
- Standard operating procedure for arrivals is to be cleared for ILS approach no later than 35 nautical miles (NM) out from runway
  - The aircraft then meet the "at or above" descent altitudes until capturing the glide slope
- La Habra Heights is approx. 20 NM from runway
- Aircraft may have variable descent rates depending on pilot technique and the onboard navigation capabilities of each aircraft

# Questions?

