

# Torrance Departures Inquiry on Early Southbound Turns

To: Bill Withycombe, Western-Pacific Regional Administrator

**By: Western Service Center Operations Support Group** 

Date: June 2012



# Torrance Departures Background

- FAA received request from Torrance Airport (TOA) to evaluate westbound departing helicopters and missed approach aircraft, to respond to citizen concerns:
  - Departing aircraft turning southbound appear to be turning too soon over the neighborhood instead of going to shoreline first
  - Missed approach aircraft are higher sooner and are turning earlier than other aircraft departures



#### Torrance Departures Evaluation Parameters

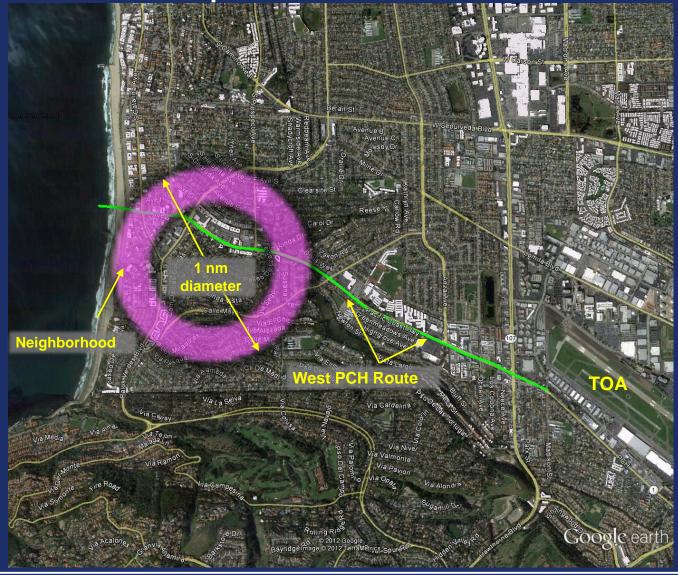
- Evaluated two days in 2010 mentioned by citizen concern, and two randomly-selected weeks in 2011 and 2012
- Area of one nautical mile diameter centered over neighborhood expressing concerns
- Included reference to West PCH route from TOA Letter Of Agreement with local helicopter operators
- Used Performance Data Analysis and Reporting System (PDARS)
- Traffic data from Southern California TRACON (SCT)

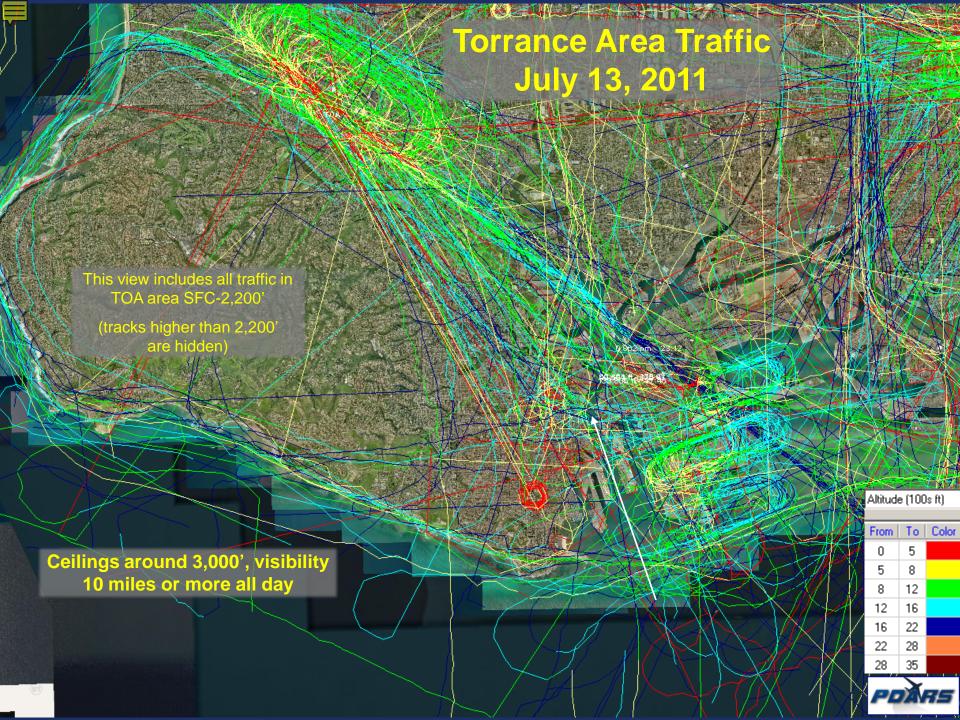
#### Torrance Helicopter Routes – West PCH

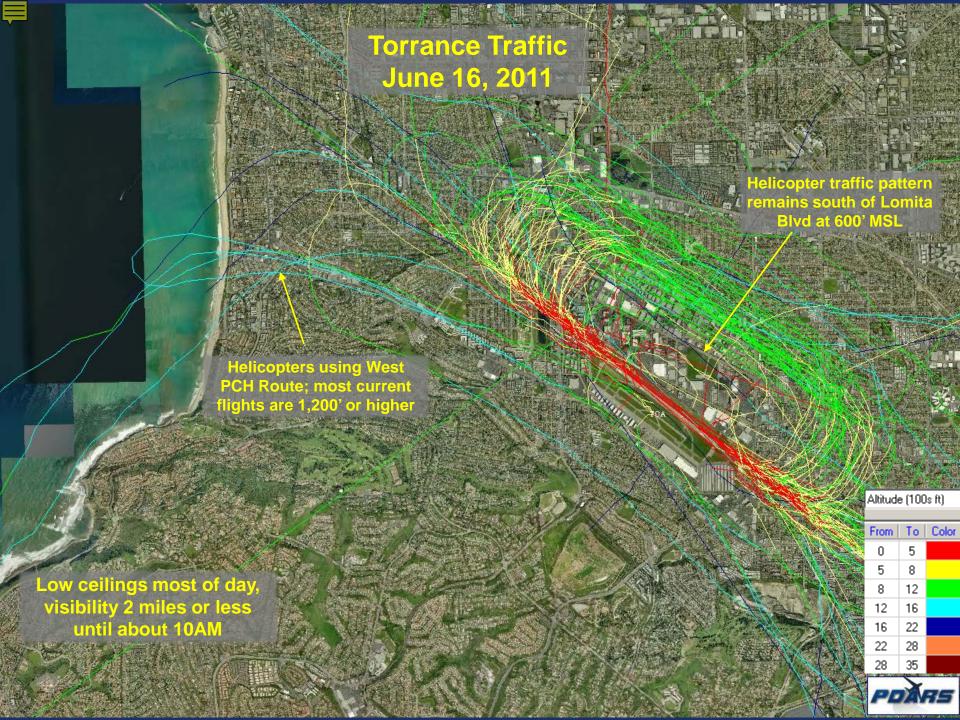


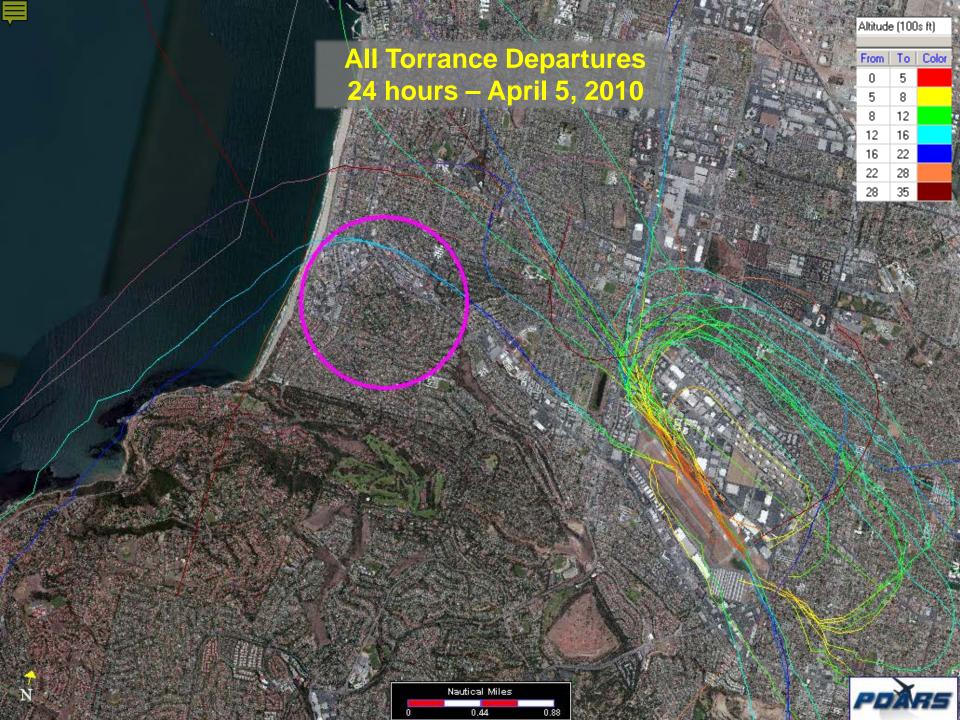


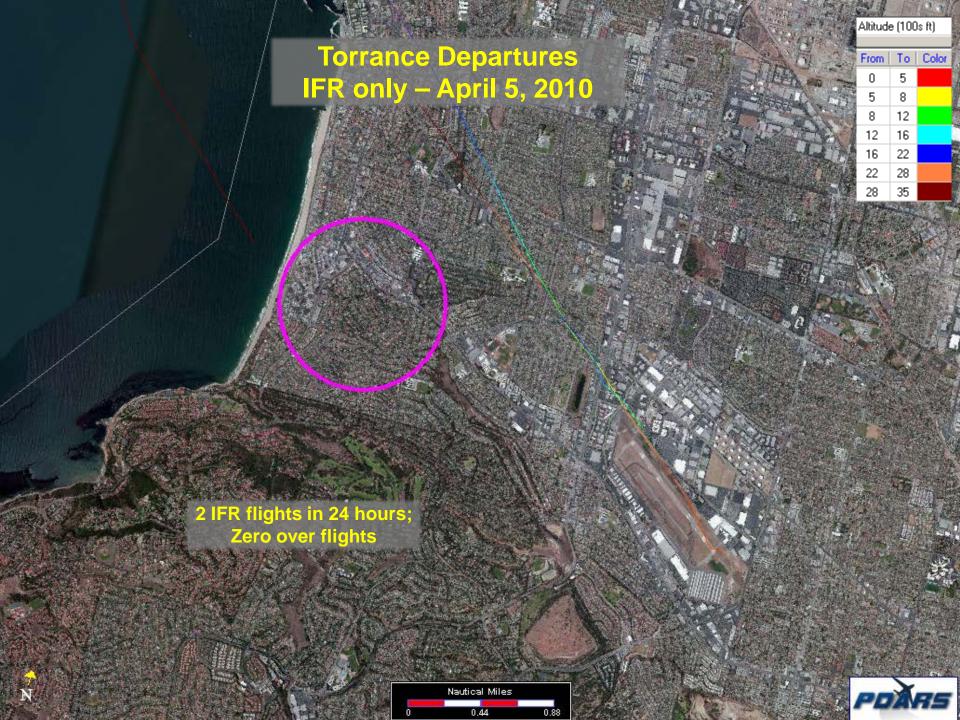
## Torrance Helicopter Routes – West PCH

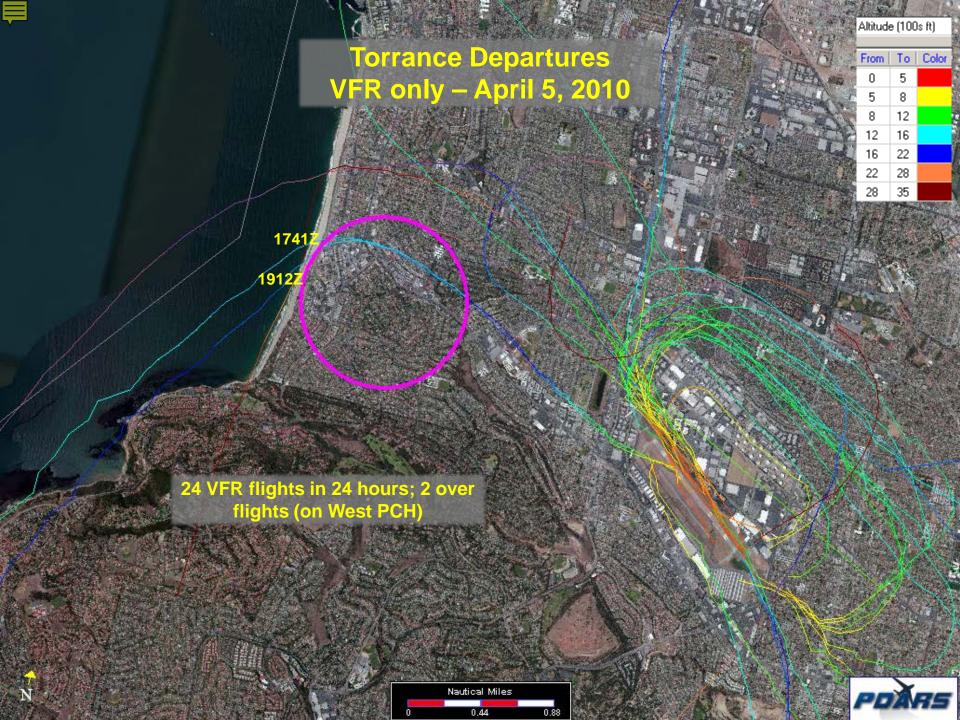


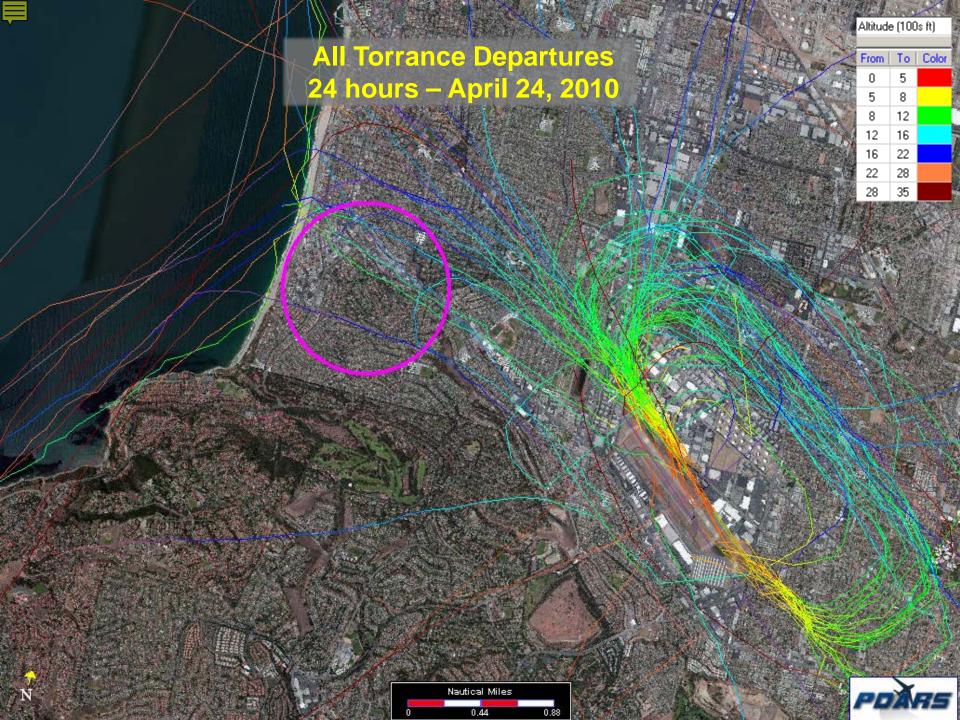


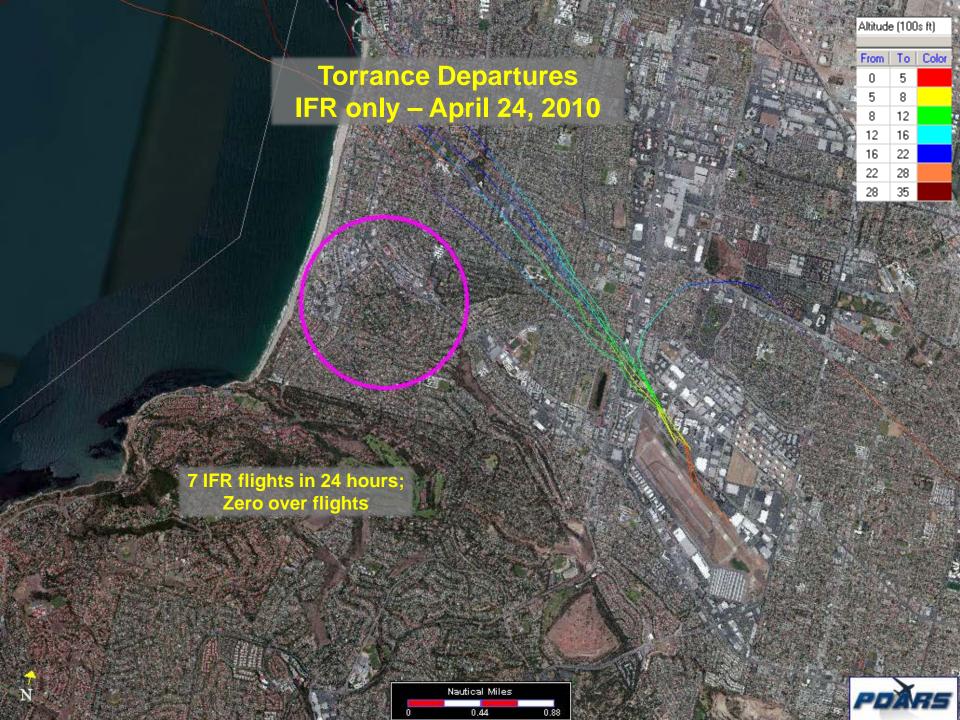


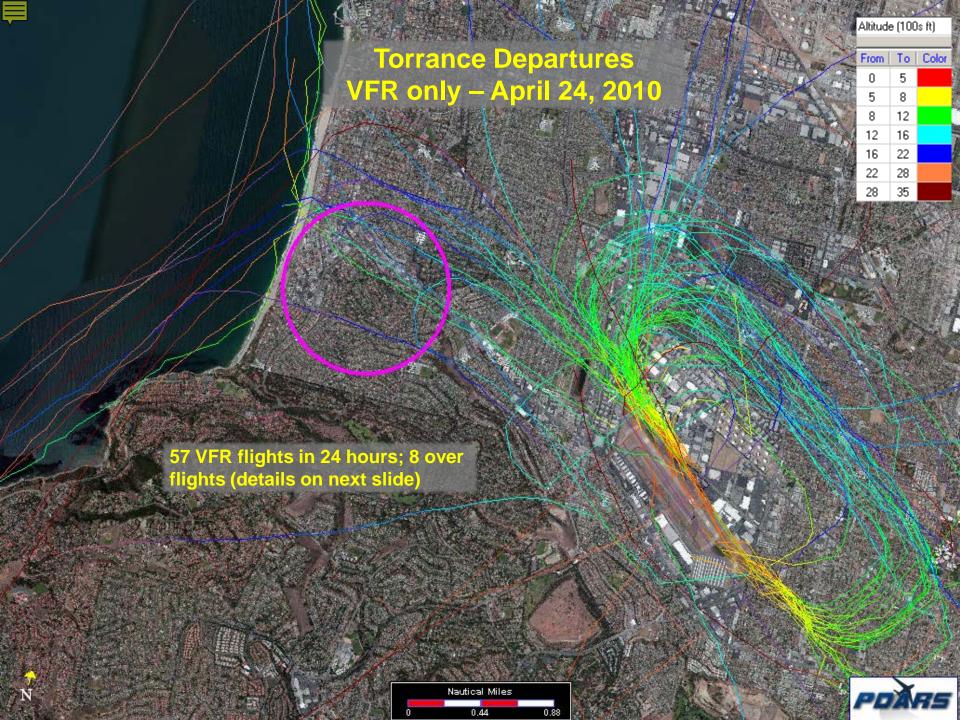


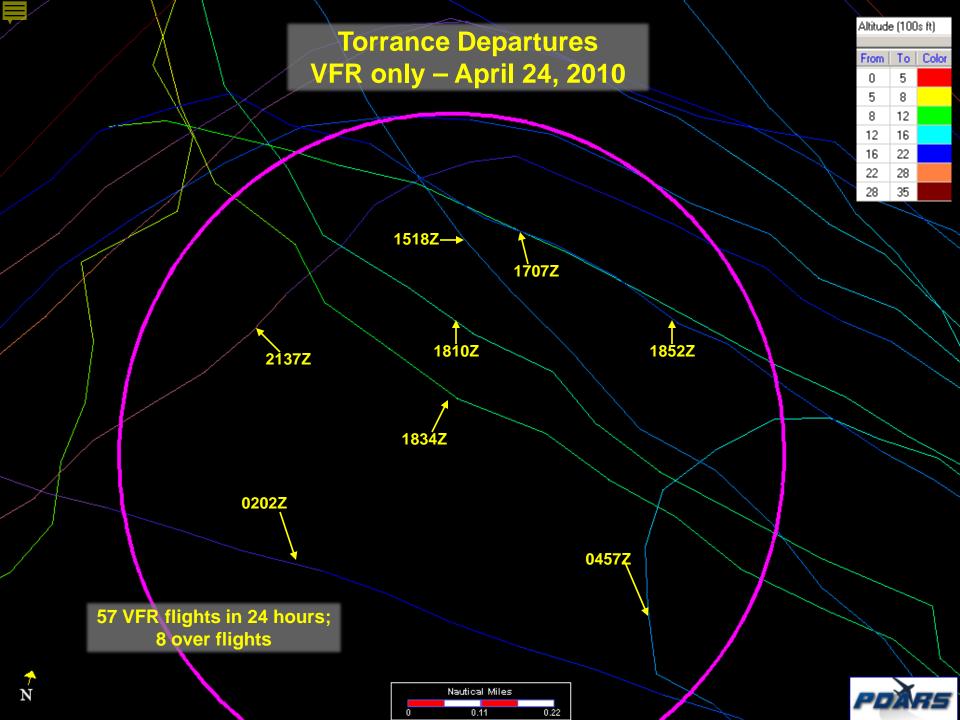


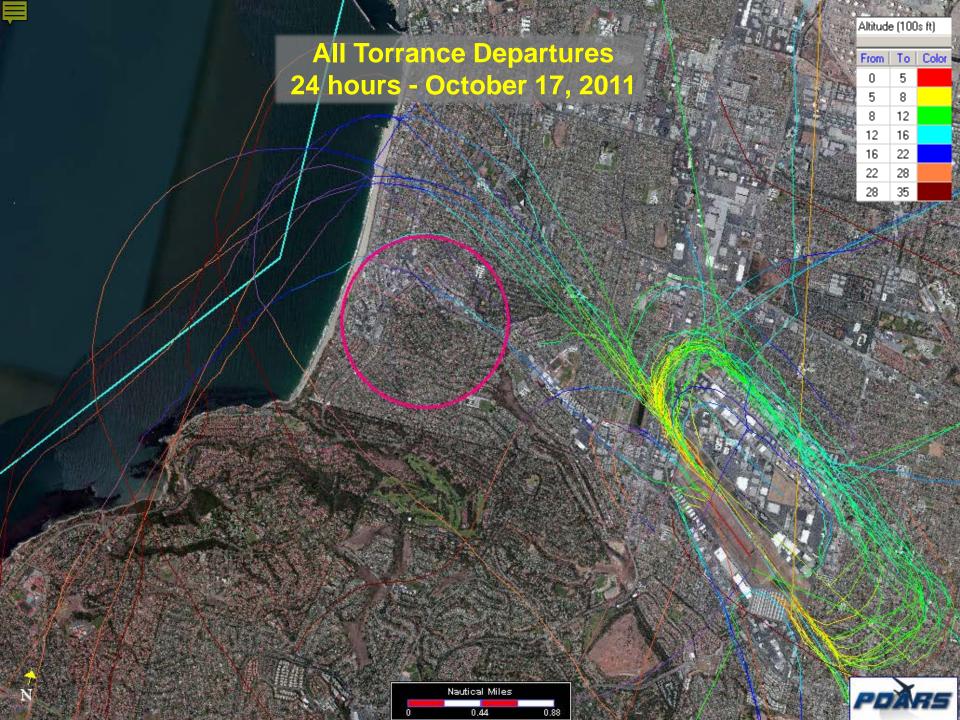




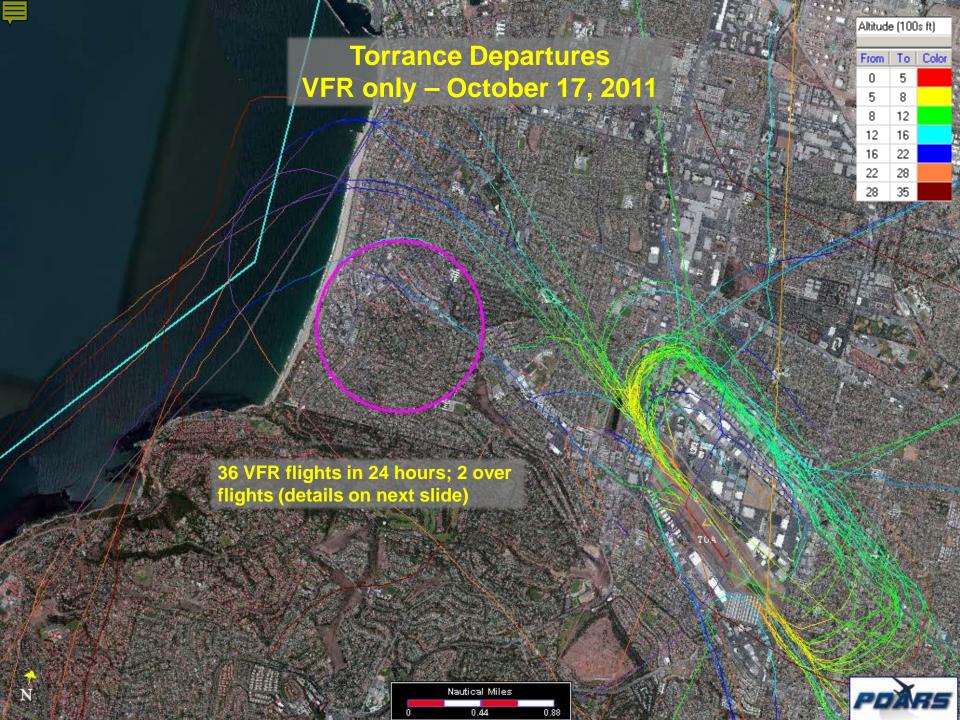












# Torrance Departures VFR only – October 17, 2011

Nautical Miles

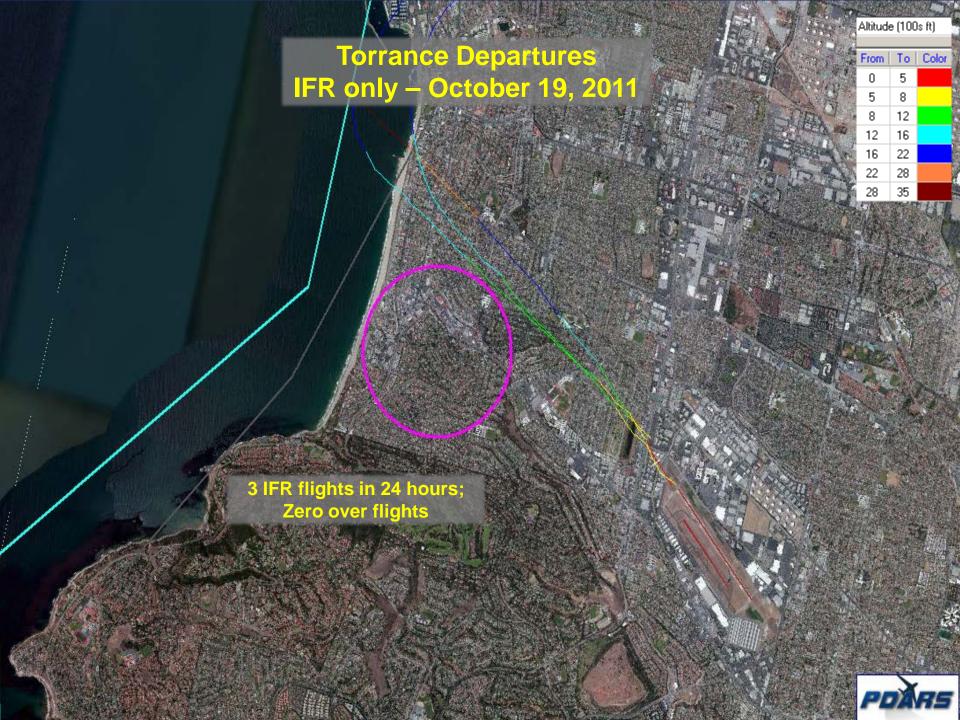


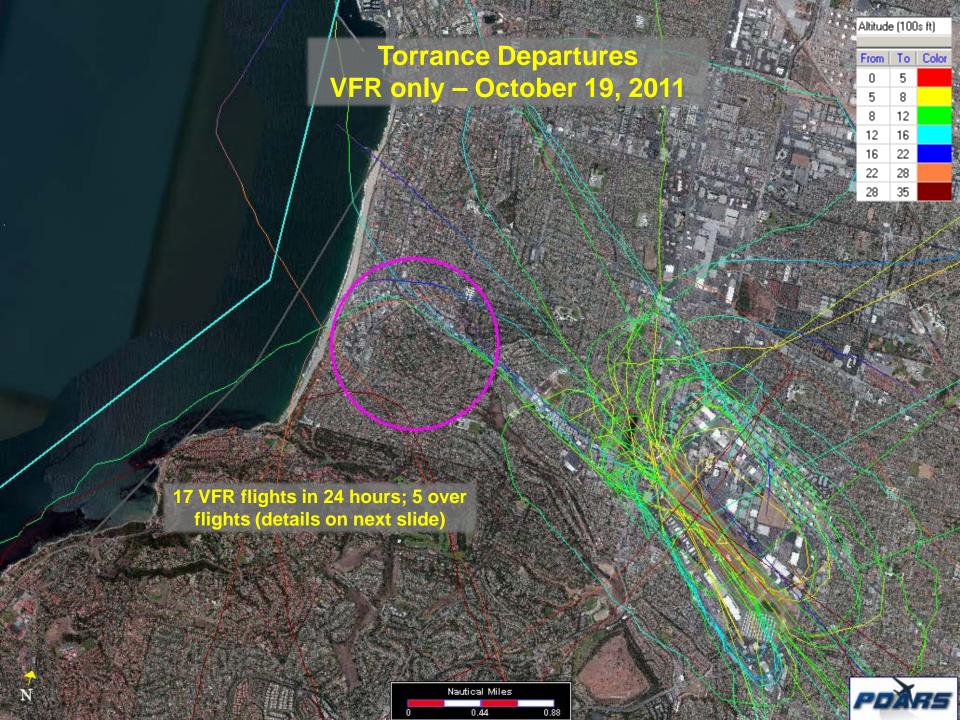
1858Z

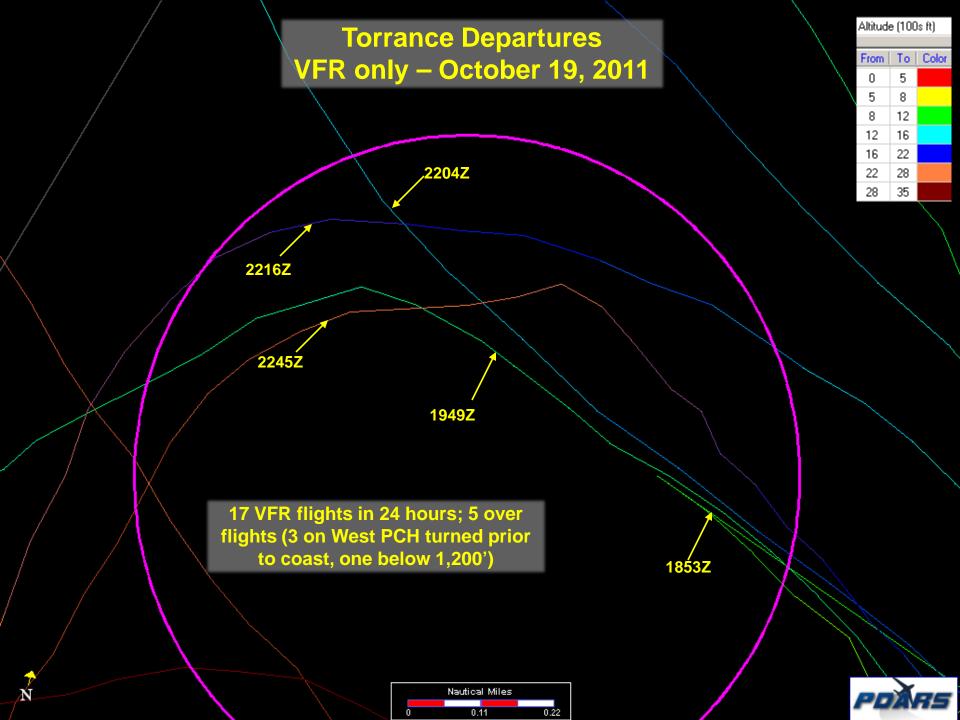
36 VFR flights in 24 hours; 2 over flights (one turned left, was above 1,500')

2029Z



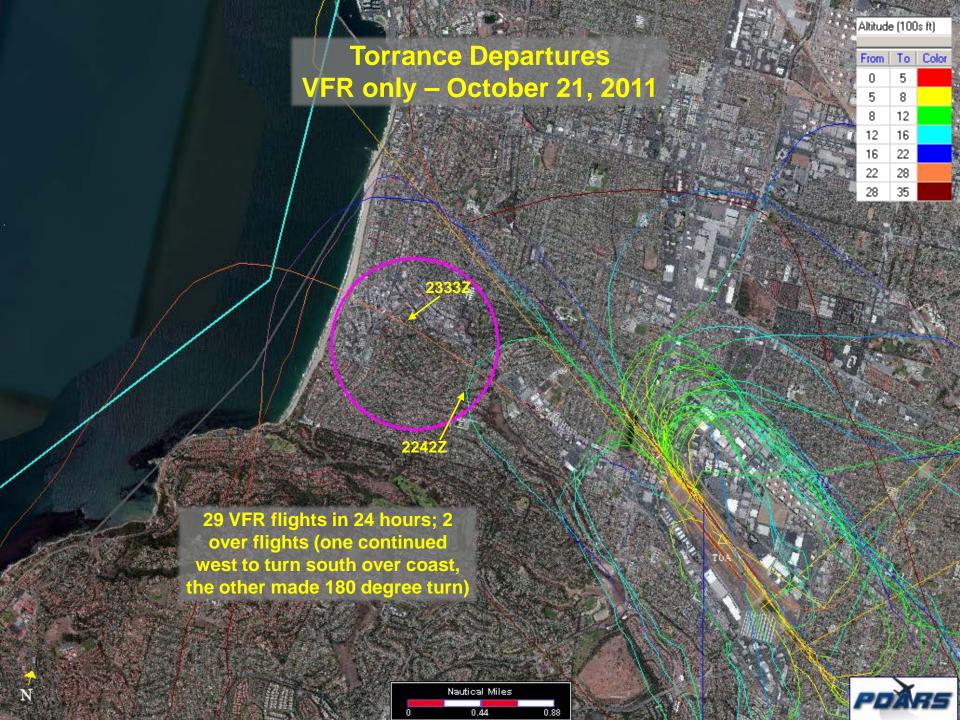


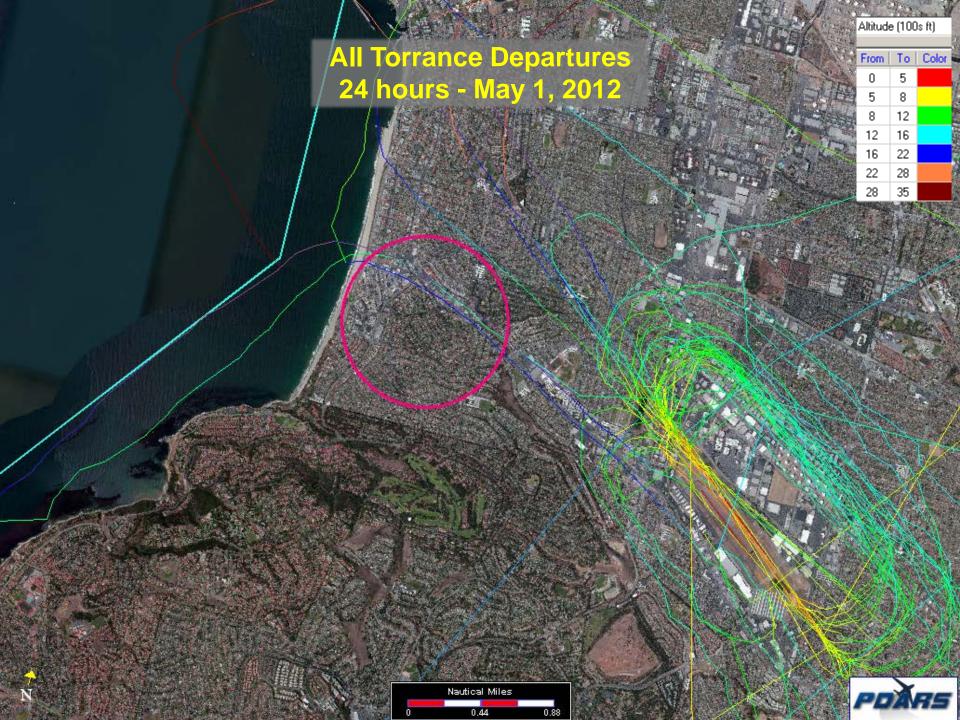


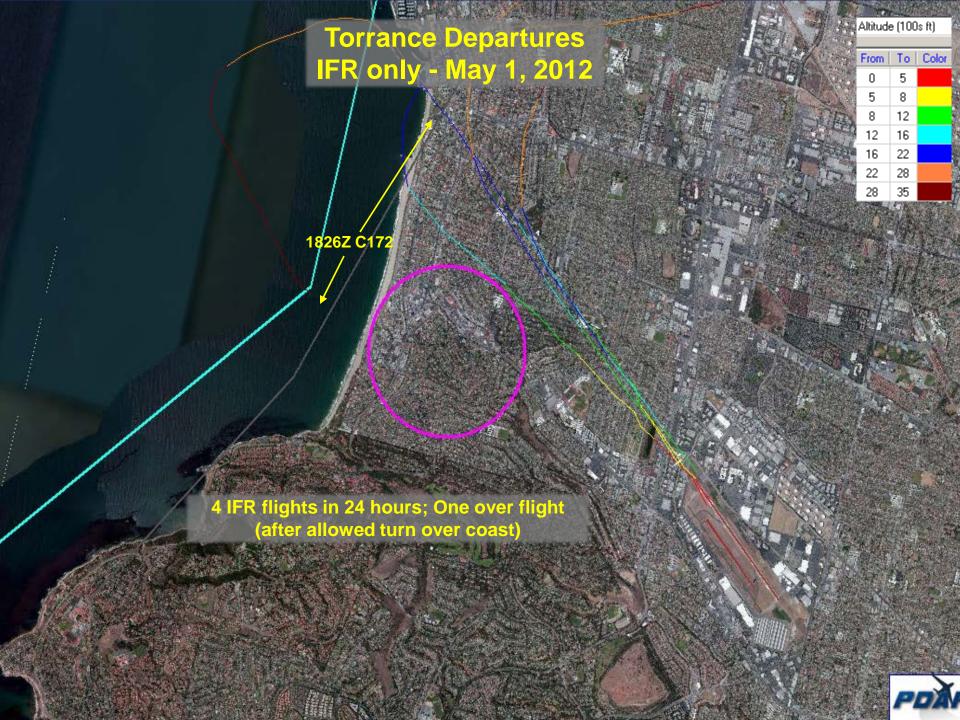


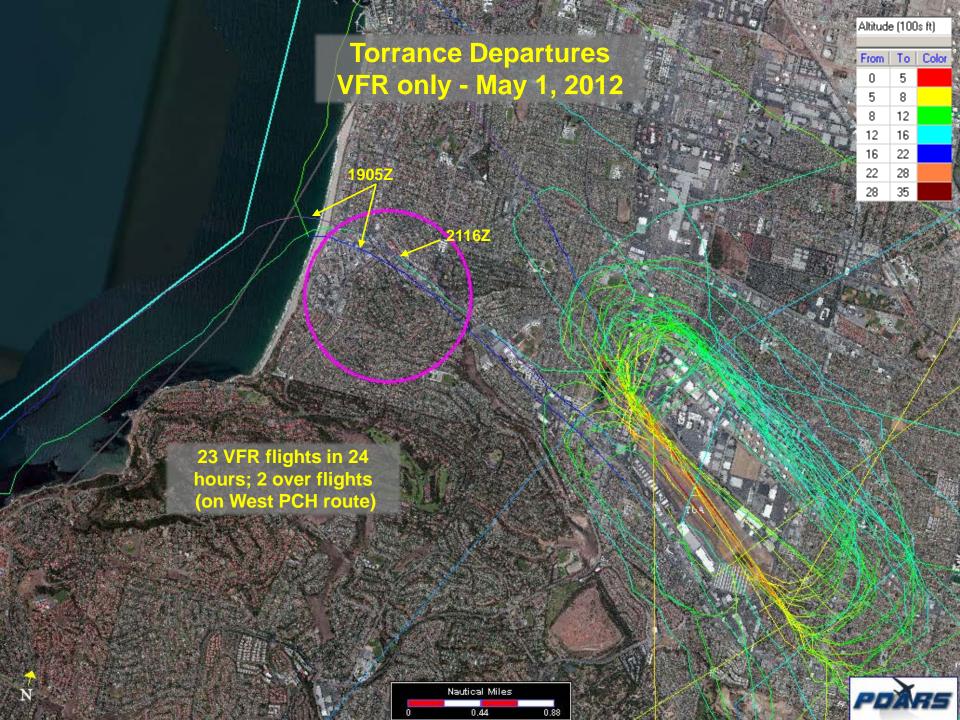


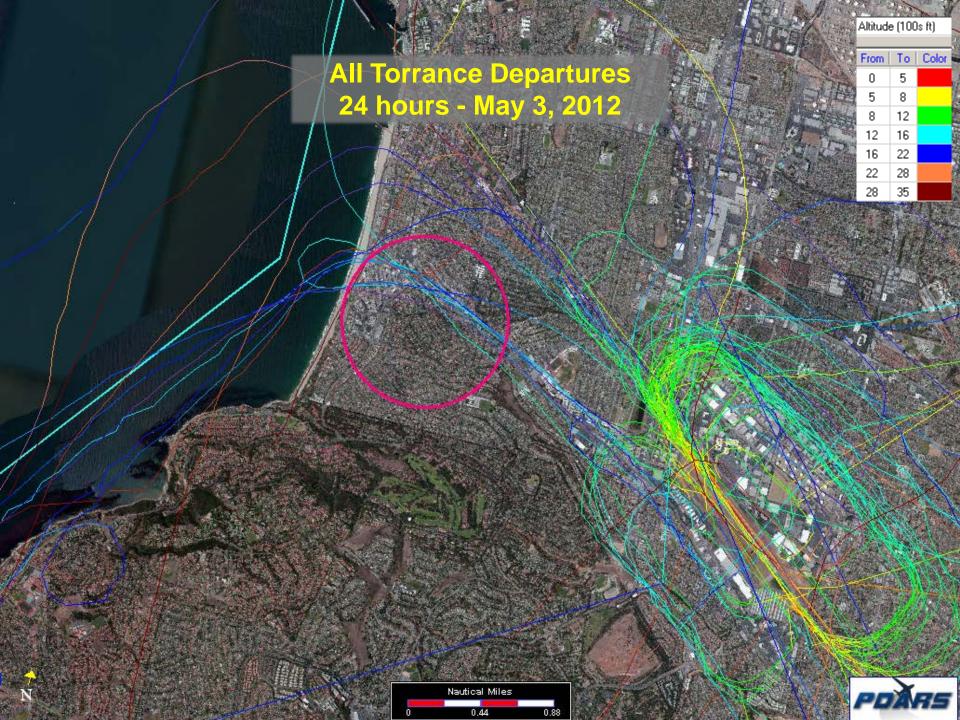


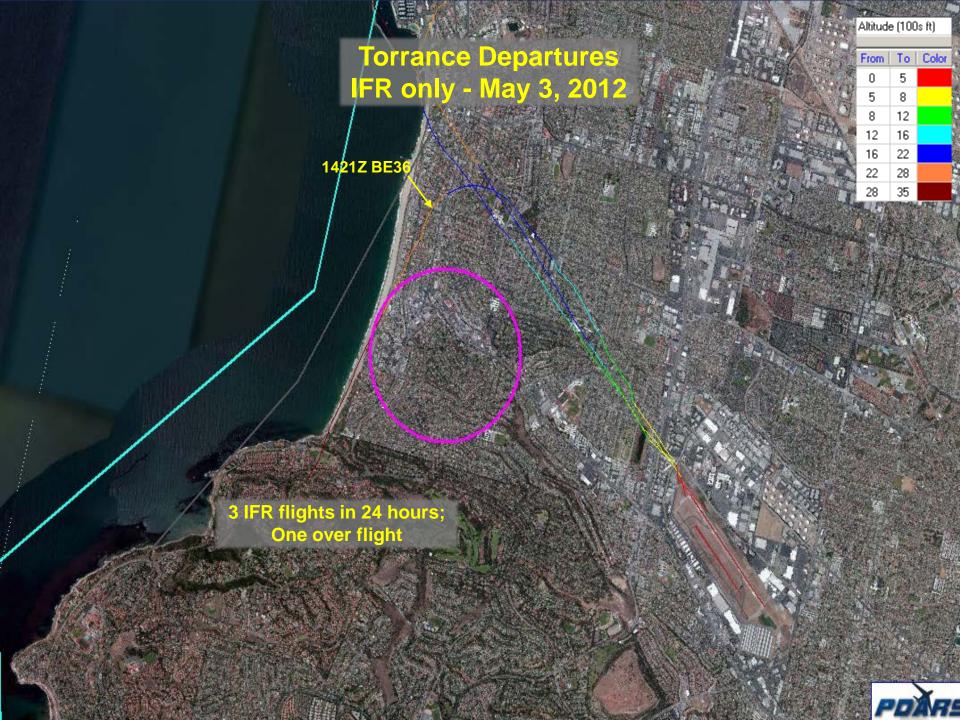


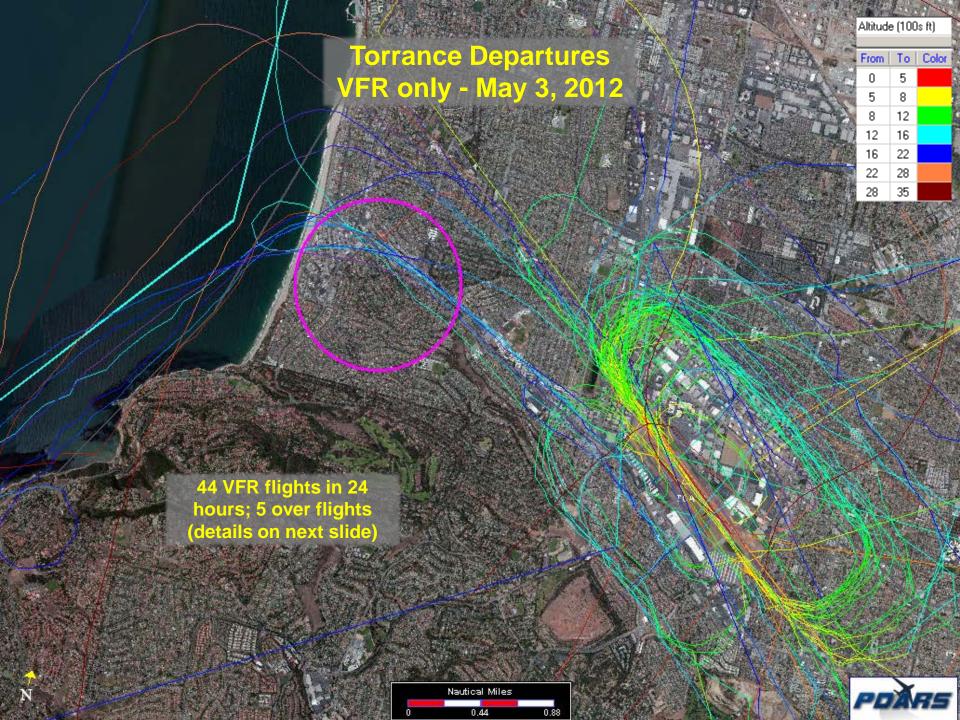


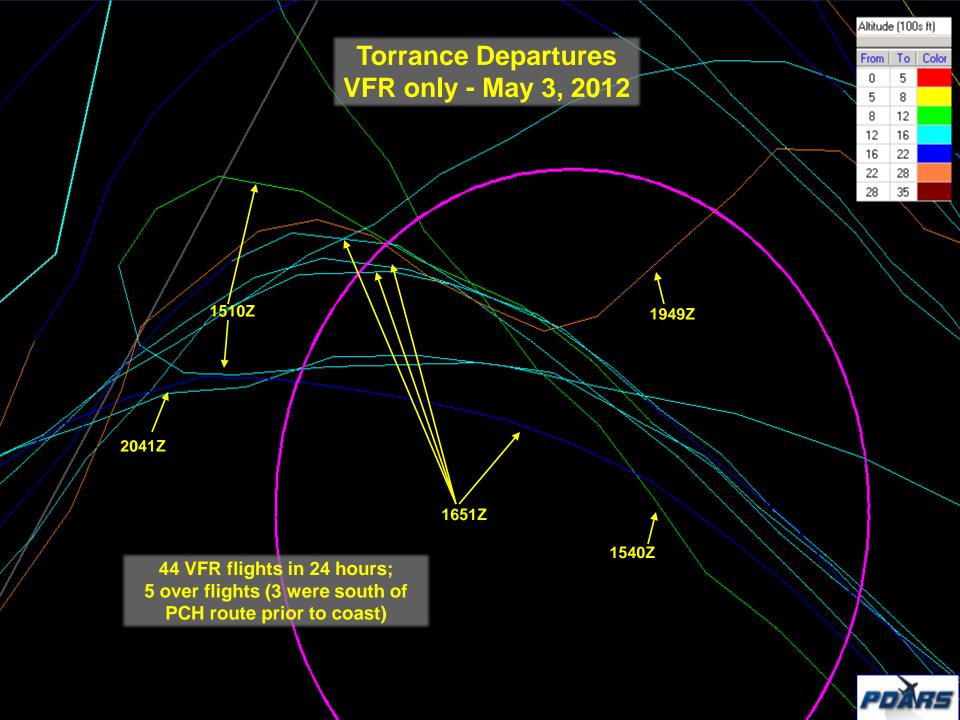


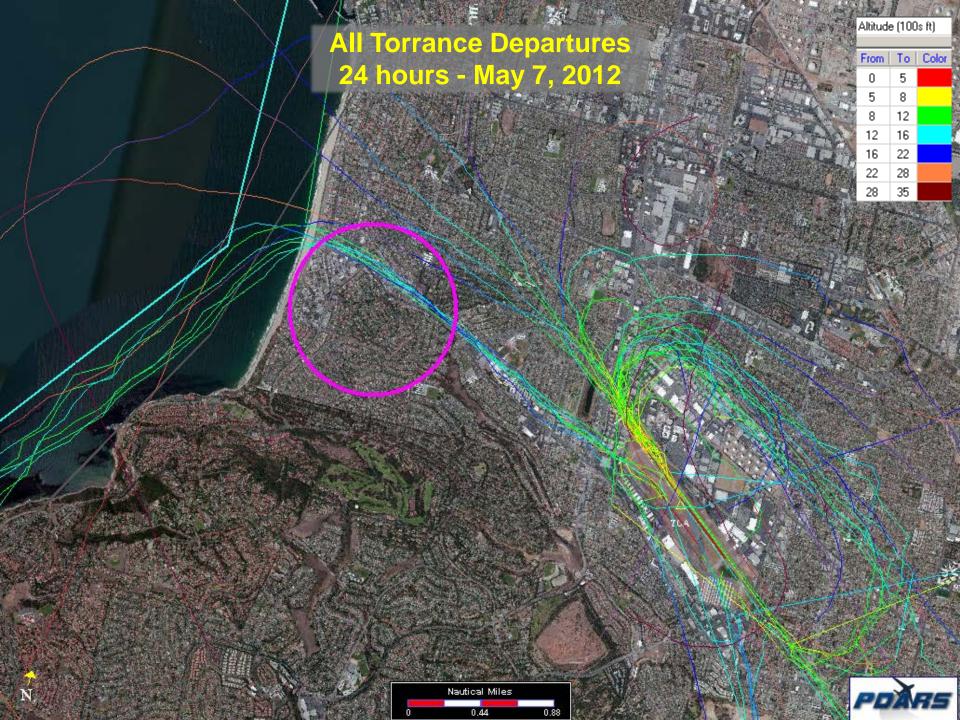


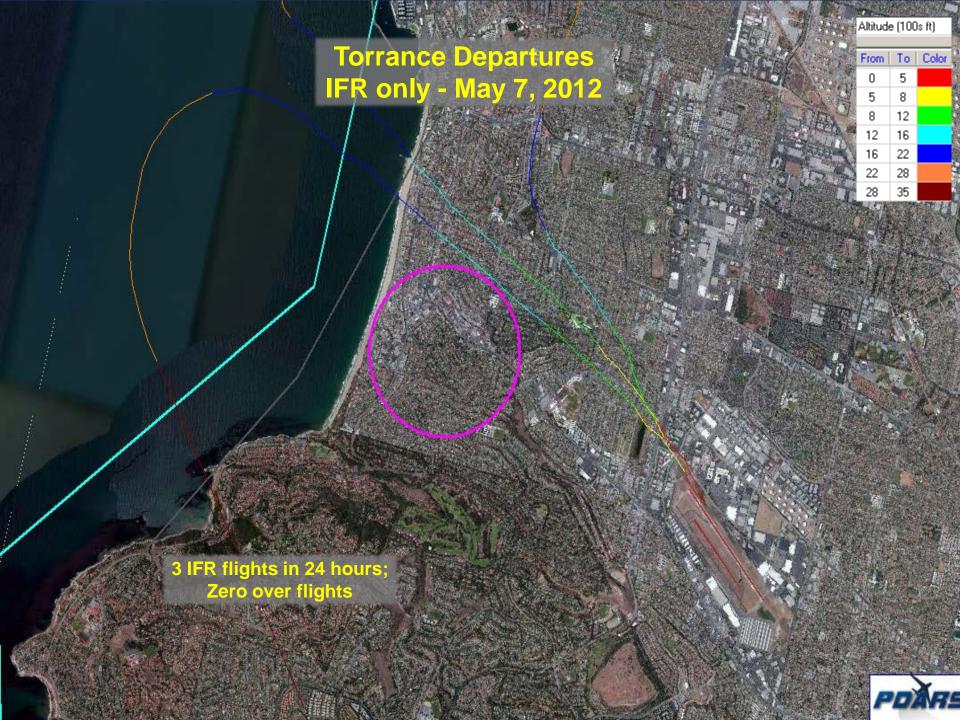


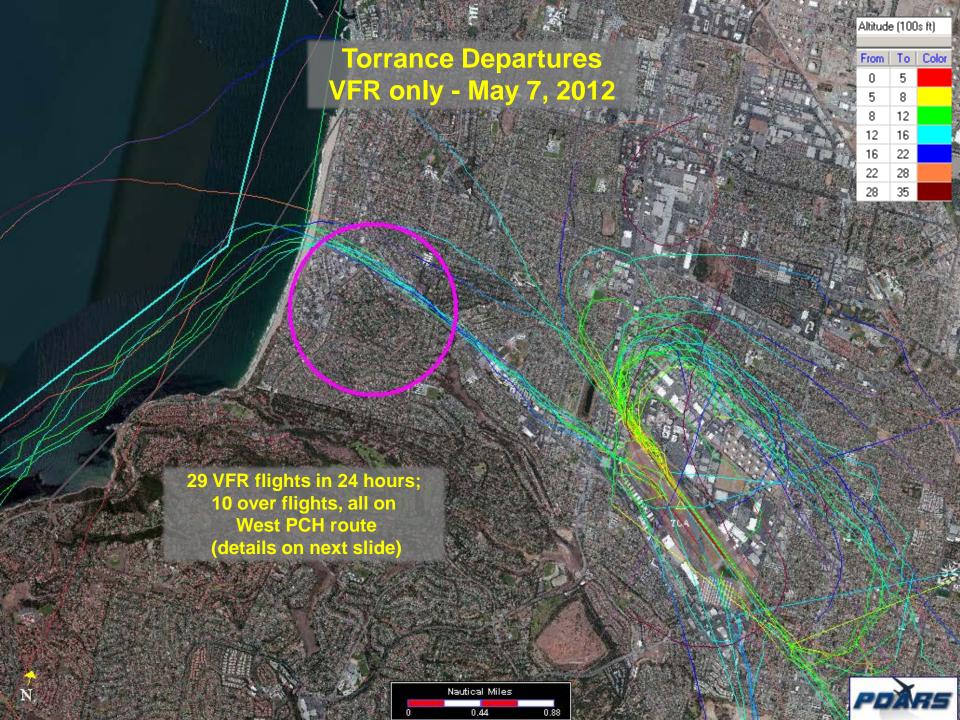


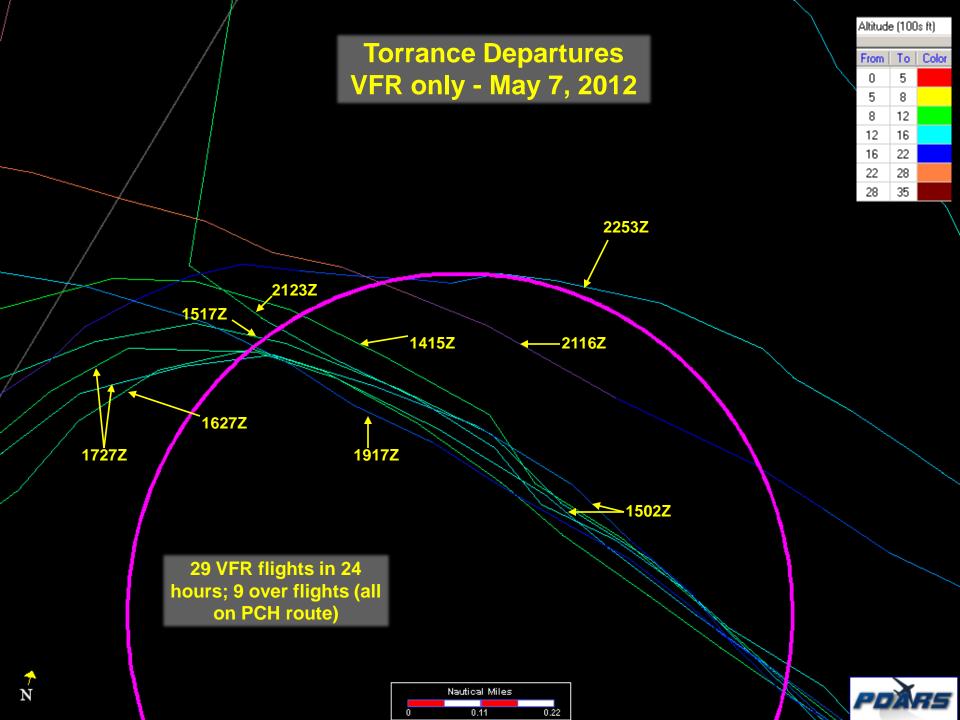


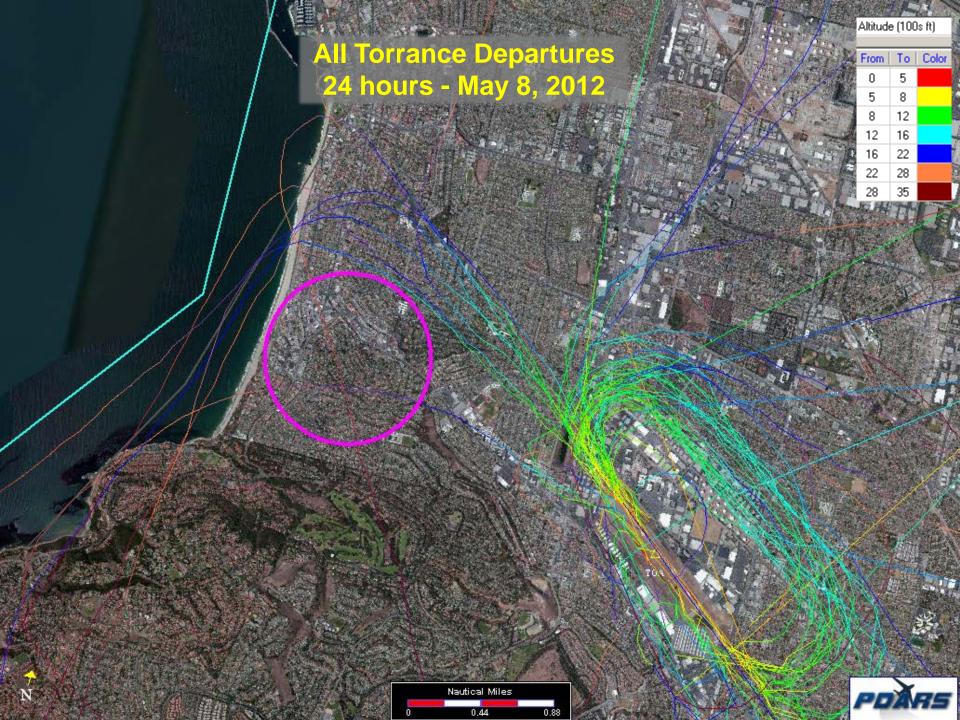


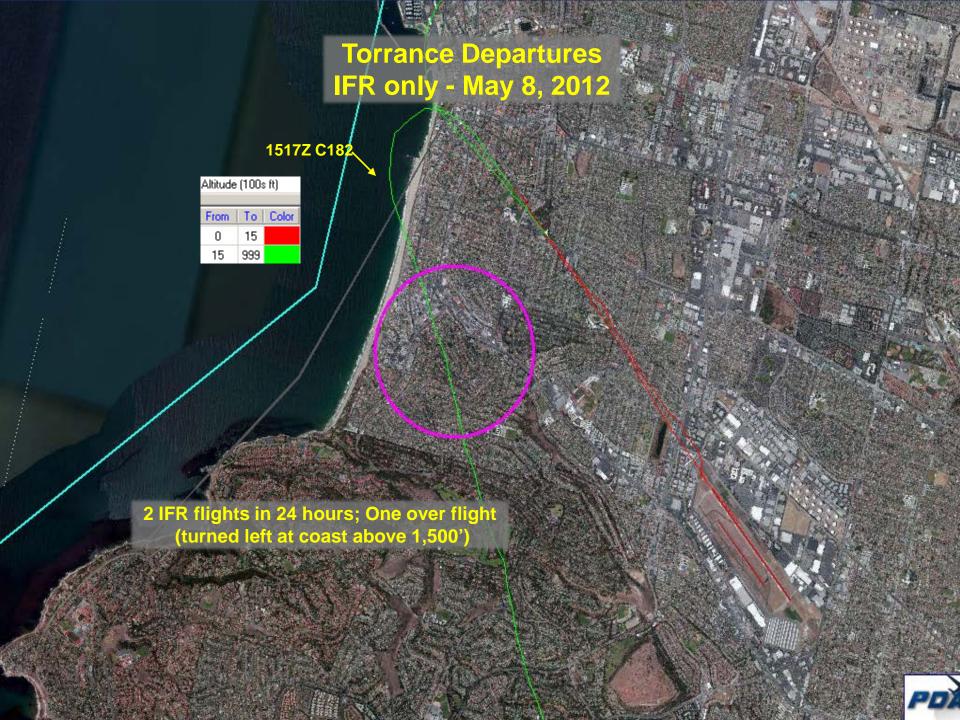


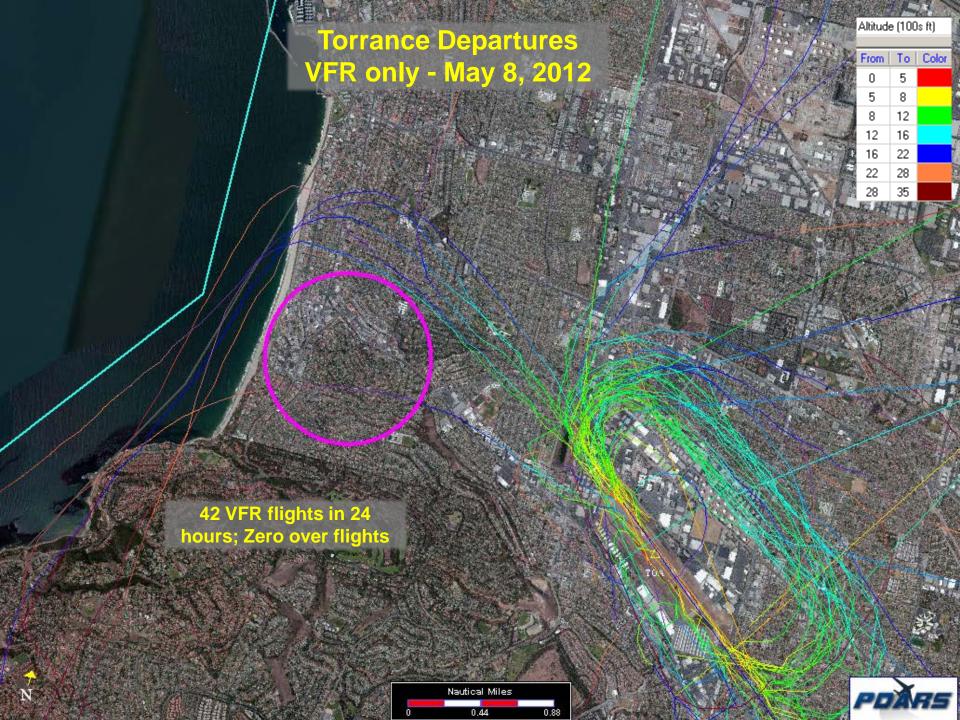














## Torrance Departures Observations

- TOA noise abatement ordinance allows for aircraft to make left turns prior to coast if they are 1,500' or higher
- On the 16 days reviewed:
  - Although missed approach aircraft cannot be separately identified,
     all IFR aircraft departing west from TOA complied with the noise abatement ordinance
    - NOTE: Missed approach aircraft must execute left turn at 1,100' to avoid IFR conflict with LAX and HHR aircraft assigned a 210° heading
  - Most VFR aircraft followed West PCH route
  - Of all VFR aircraft departing westbound, on average, less than one VFR aircraft per day turned south prior to reaching the coast below 1,500'

