

Optimization of Airspace and Procedures in the Metroplex



SoCal Metroplex Lake Arrowhead Presentation January 25, 2018

To: Lake Arrowhead Municipal Advisory Council
By: Dennis Roberts, FAA Regional Administrator



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Why We Undertook the Modernization Project

- Modernization was needed because many of the air traffic procedures in Southern California were decades old. While they were all safe, some were inefficient because they relied on ground-based navigation aids, which limit available flight paths.
- Satellite-based procedures allow for more optimized routing with fixed routes, altitudes and speeds.
- Their precise flight tracks help keep routes de-conflicted.
 - This in turn reduces the need for controllers to vector aircraft and reduces controller-pilot communications.
- The modernization work that the FAA is doing nationwide is laying the foundation for future safety and efficiency improvements.

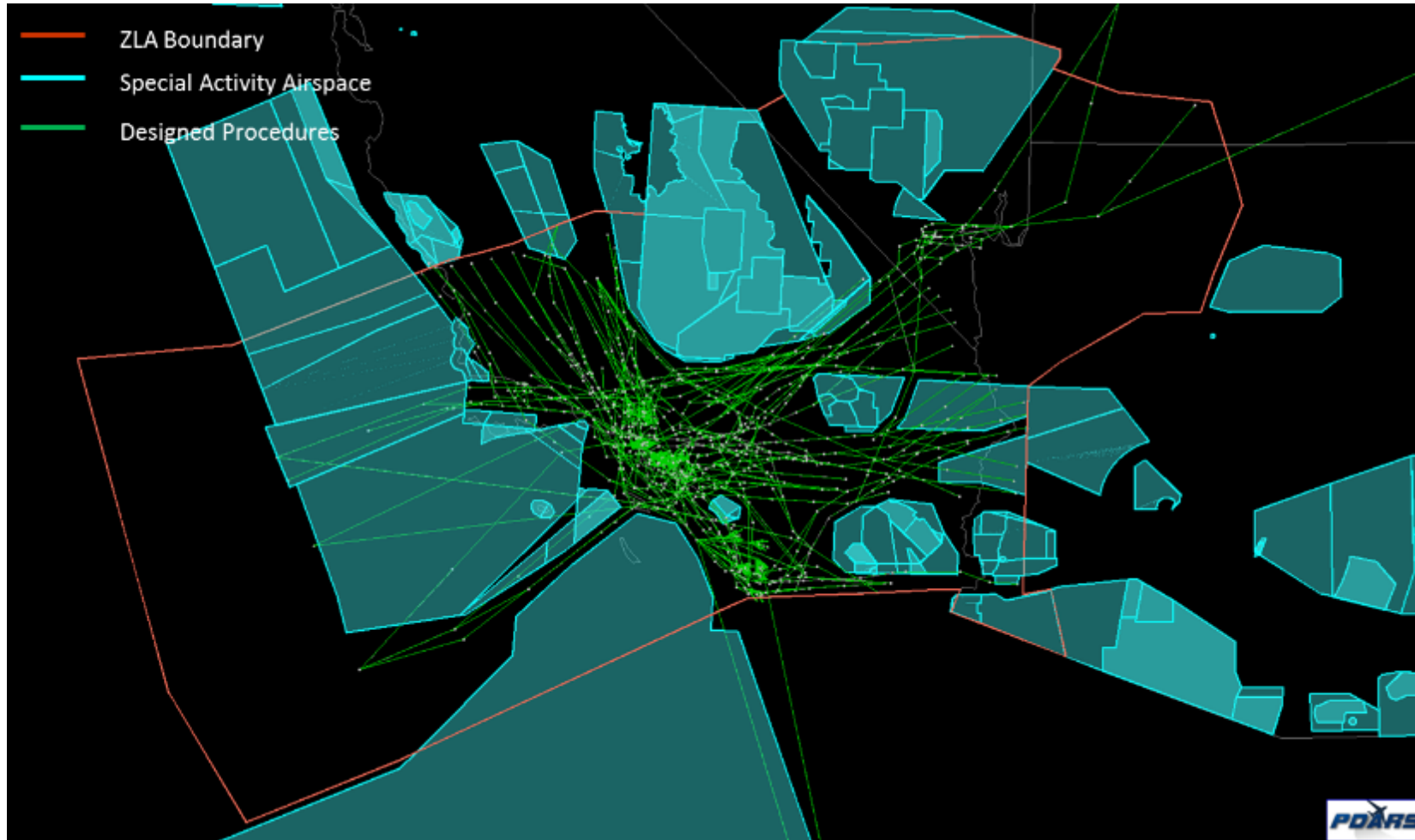




Pre Metroplex
Thursday, August 12, 2013
11,404 tracks
Blue – Jets
Yellow – Turboprops
Red – all others



SoCal Special Activity Airspace Constraints

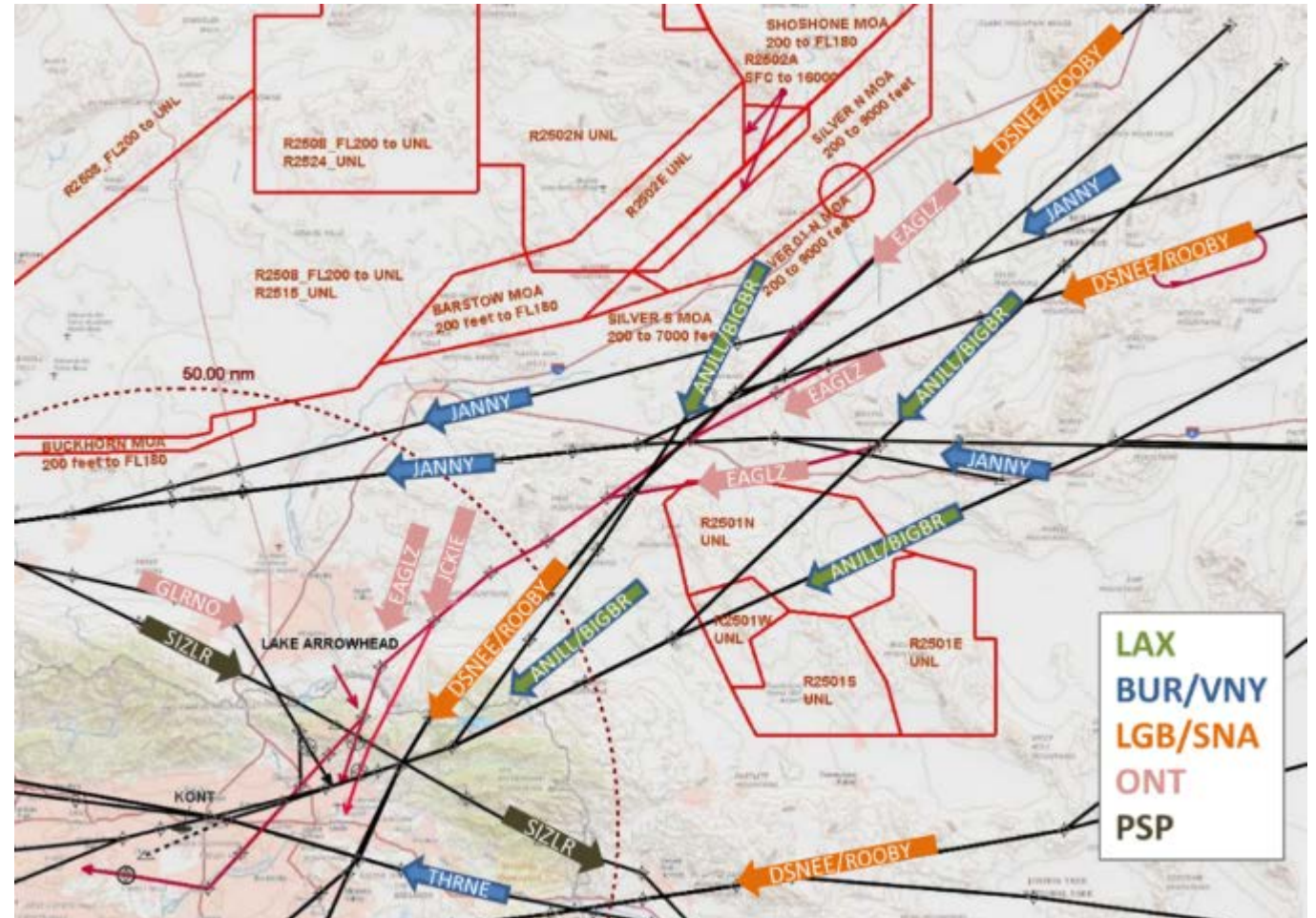


- The Metroplex team developed approximately 150 departure, arrival and approach procedures
- Route options are limited by large blocks of Special Activity Airspace



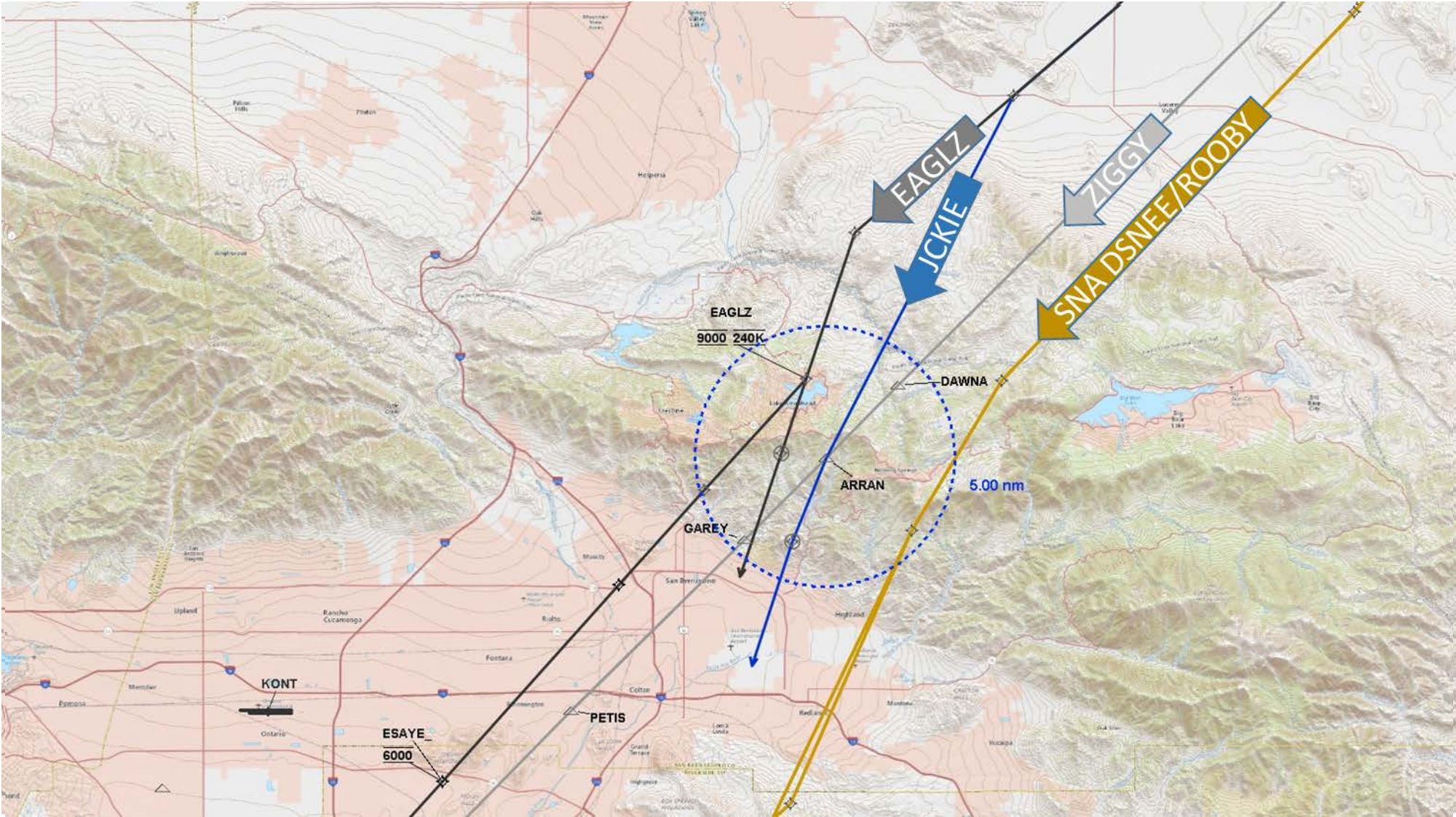
Complex Airspace

- SoCal airspace is extremely complex
- Multiple arrival routes converge northeast of ONT descending into SoCal airports



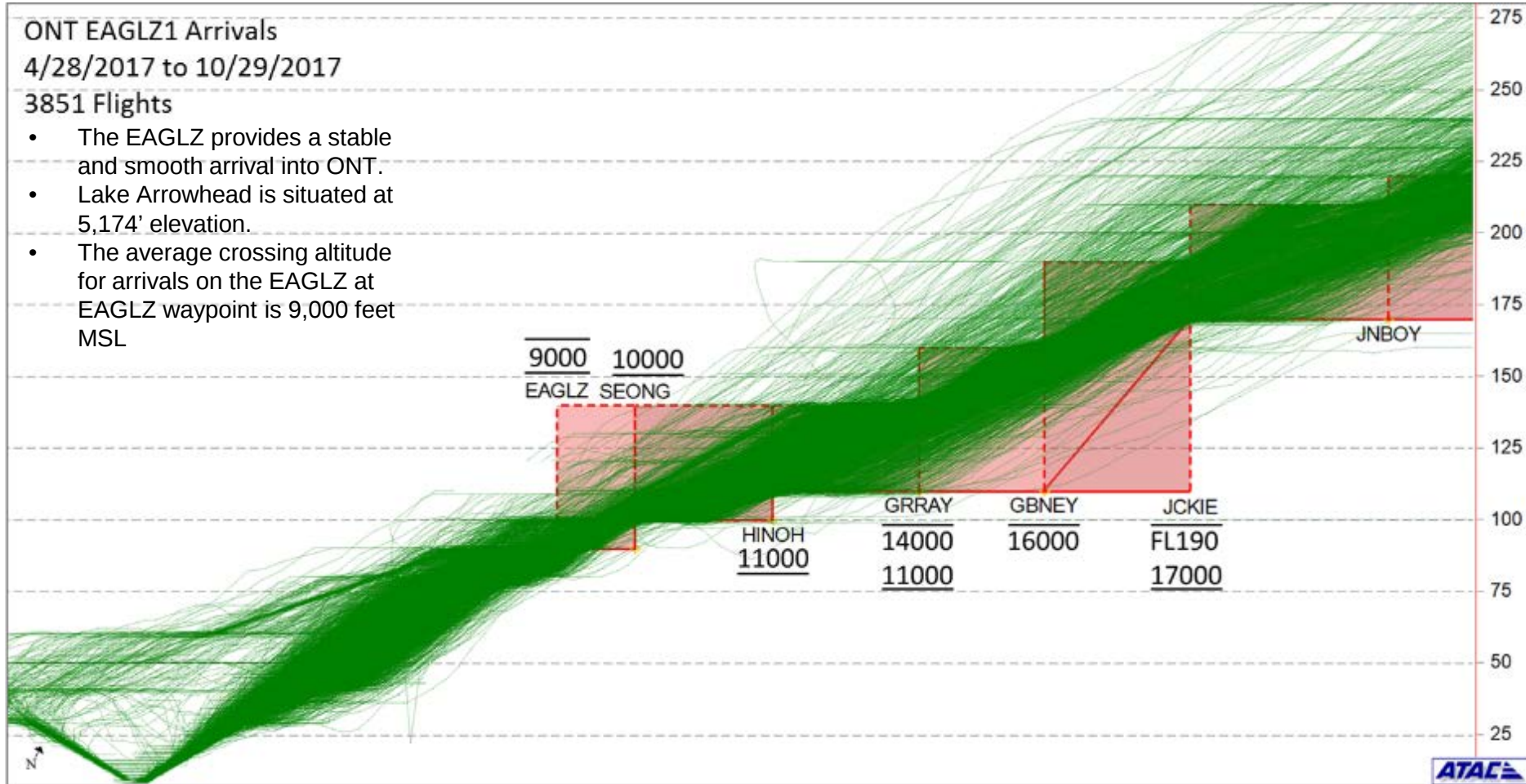
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Lake
Arrowhead
Arrival
Routes

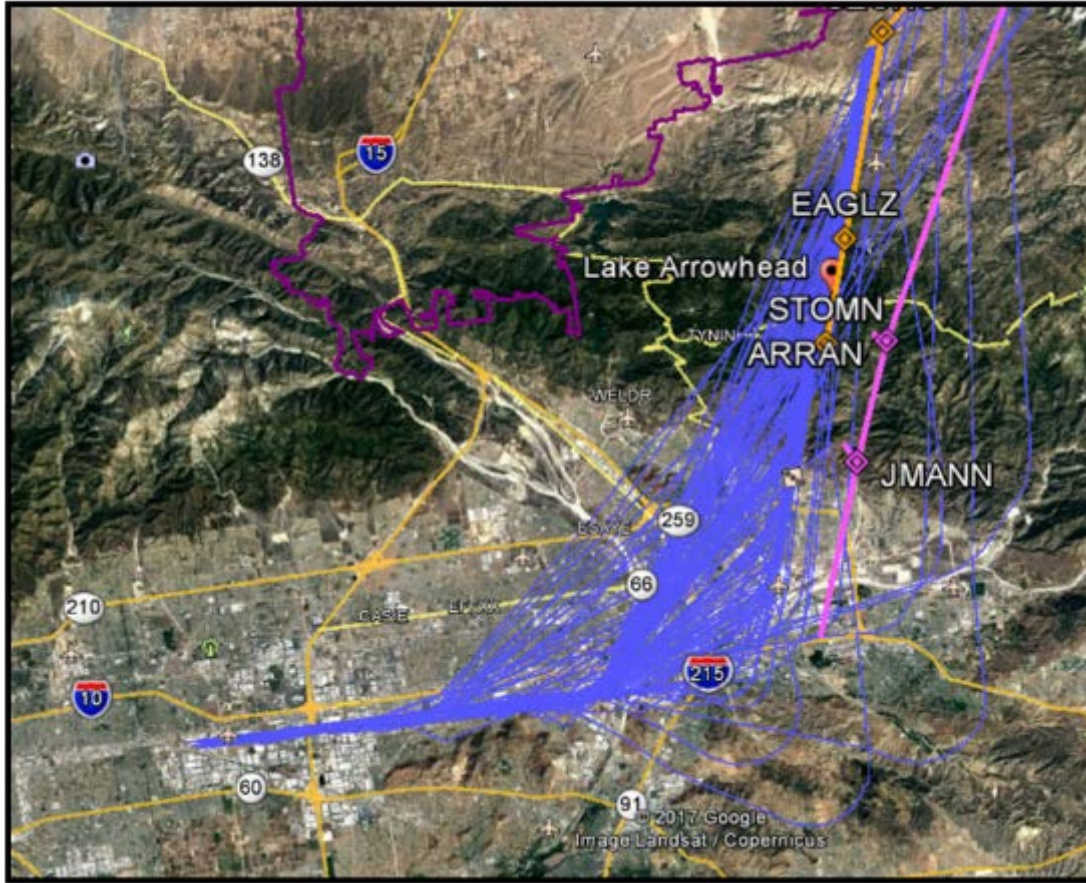


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ONT EAGLZ arrival route profile



Proposed JCKIE arrival relative to representative nighttime EAGLZ flight tracks (60 Days)



Legend	
	JCKIE
	EAGLZ
	Representative Nighttime Arrival Tracks (60 days)



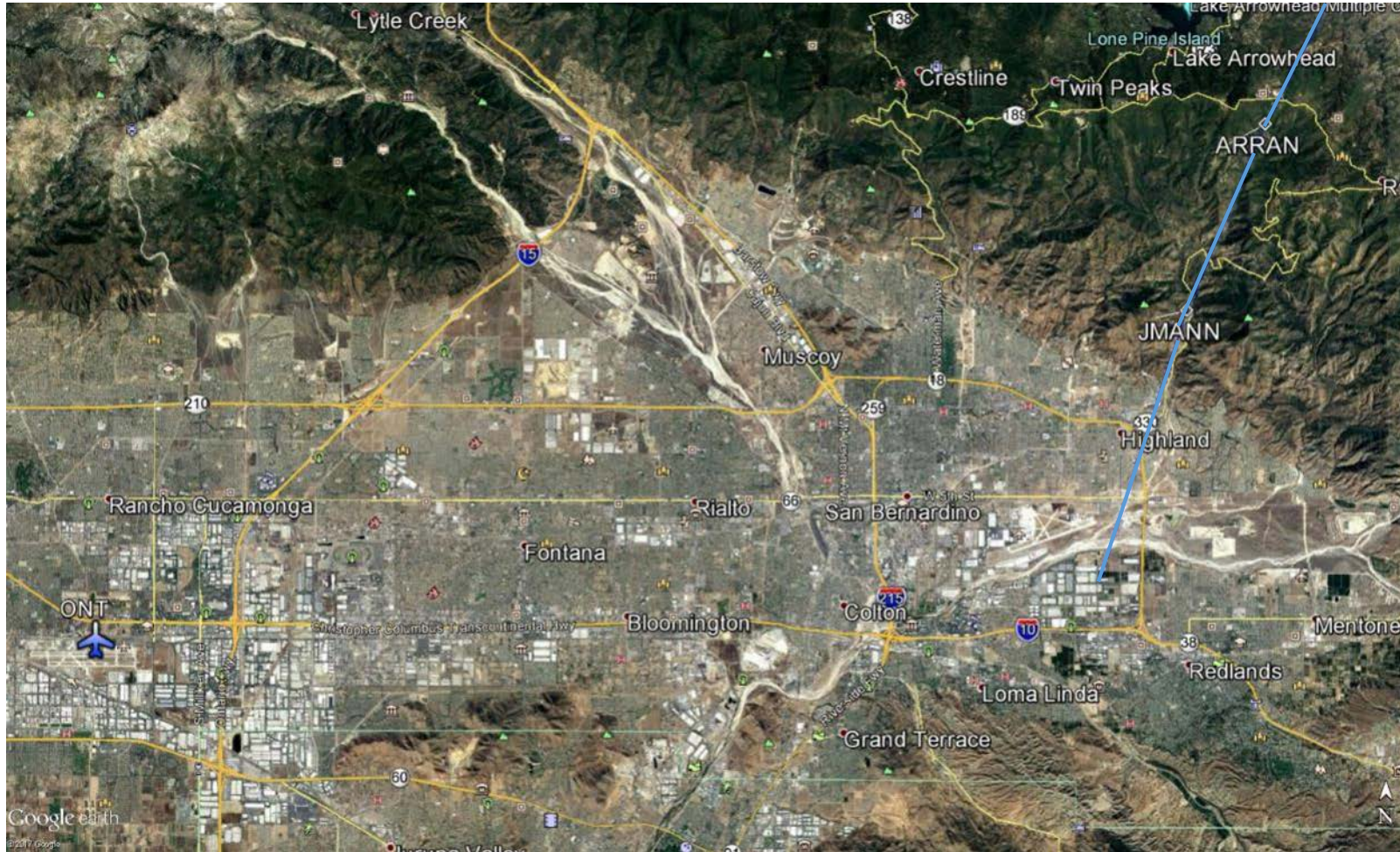
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ONT JCKIE Arrival with ZIGGY flight tracks

- The JCKIE flight track falls within historical ZIGGY flight tracks.



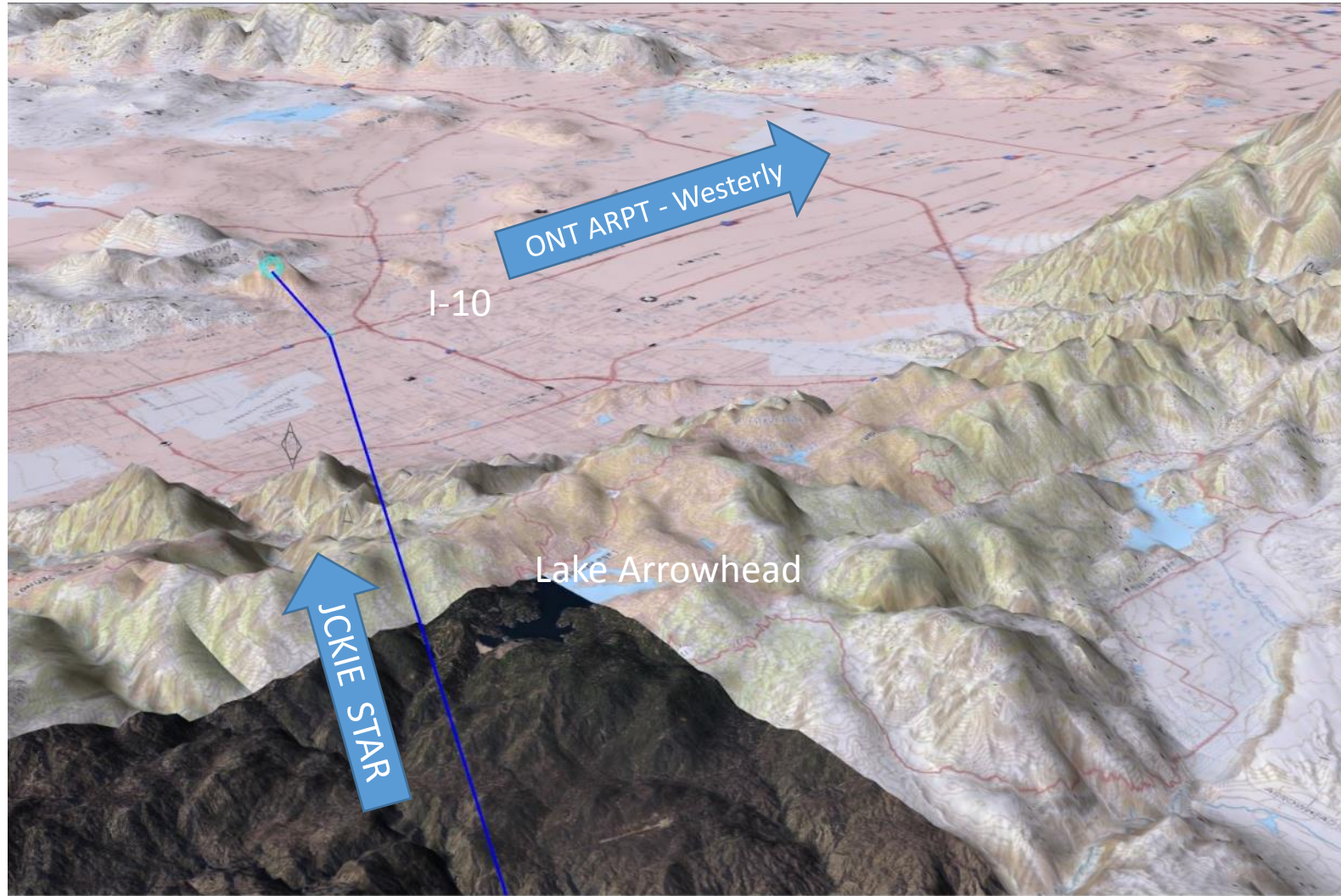
JCKIE arrival and ONT



All cities identified from
Google Earth mapping tool



Lake Arrowhead JCKIE STAR



This presentation will be posted at the following website:

https://www.faa.gov/nextgen/nextgen_near_you/community_involvement/ONT/

Supervisor Rutherford's site will also provide a link:

<http://sbcounty.gov/rutherford/>

Questions?