FAA Initiative to Address Noise Concerns of Santa Cruz/Santa Clara/San Mateo/San Francisco Counties

FAA & Select Committee Working Meeting

July 15, 2016



Noise Modeling vs. Noise Measuring



Measured noise data is the basis for the noise models

- INM/NIRS are based on international standards i.e. SAE
- Aircraft manufactures provide noise data
- Noise data is integrated into noise models and verified before release
- Field noise measurements have been taken at various locations to validate modeling



Field noise measuring has limitations

- Noise modeling is used to evaluate historical, existing, and forecast scenarios
- Noise measuring would only evaluate historical scenarios
- Noise measuring would require many monitors over large geographical area for a long period of time to replicate modeling



Field noise measuring is typically done at specific locations

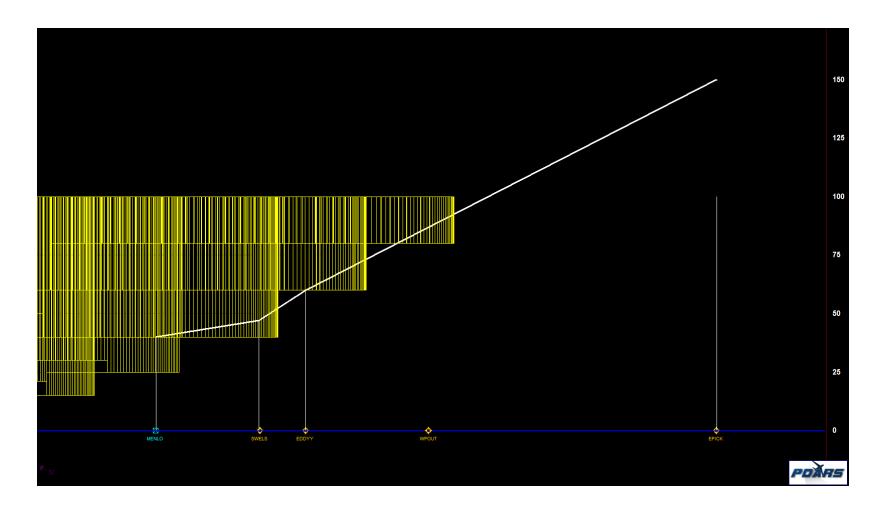
- Noise measuring may be used at a specific location to demonstrate noise exposure for a give period of time
- Airport operators have installed noise monitors in some communities
- SFO installed noise monitors under the SERFR



Class B



Current - SERFR Descent Profile

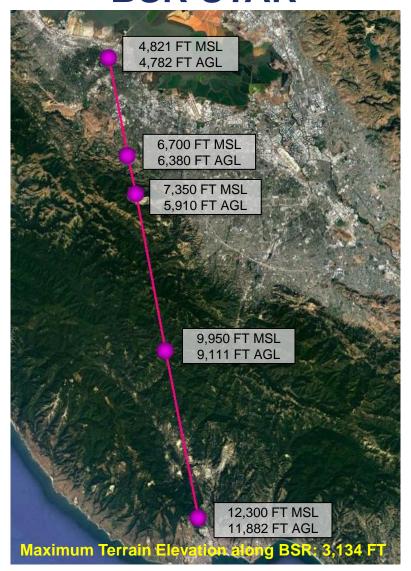




BSR – SERFR Altitude and Elevation Comparison



BSR STAR



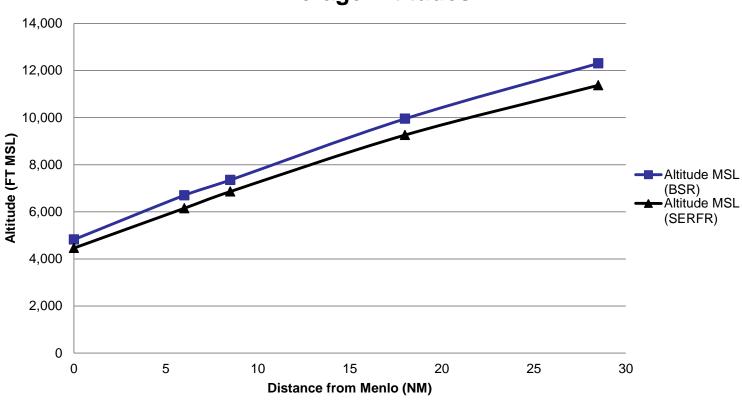
SERFR STAR





BSR - SERFR

Average Altitudes





Maximum Elevation



SERFR

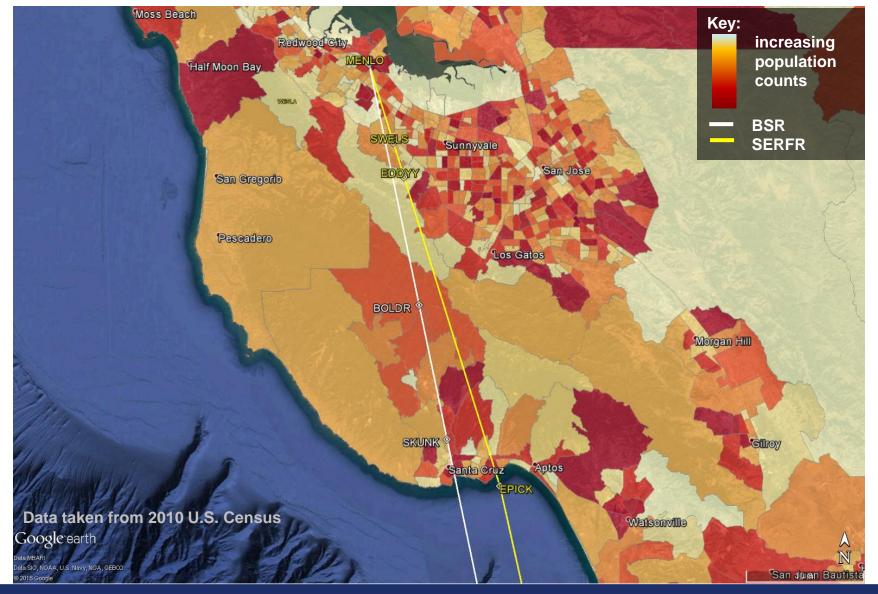


BSR



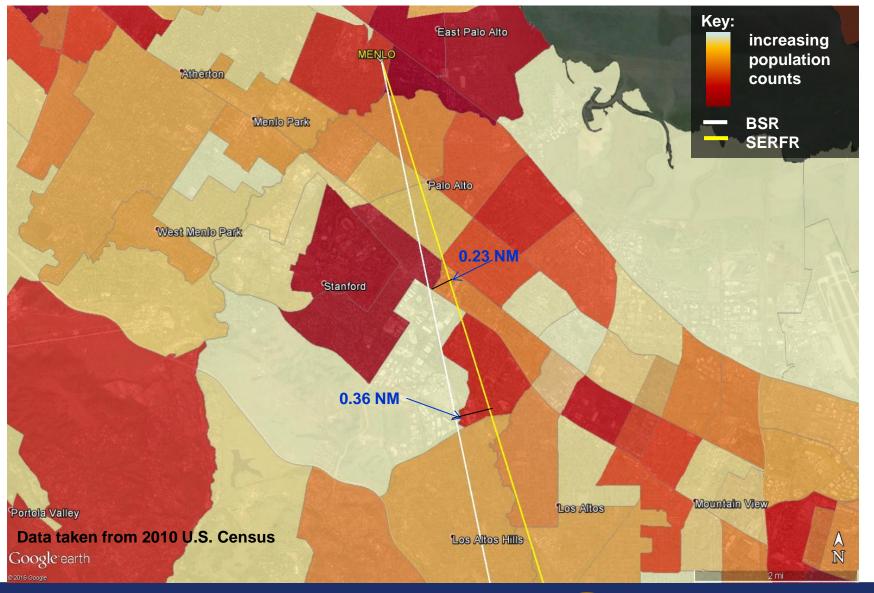
BSR – SERFR Population Density Comparison

Population Density Near to the BSR and SERFR



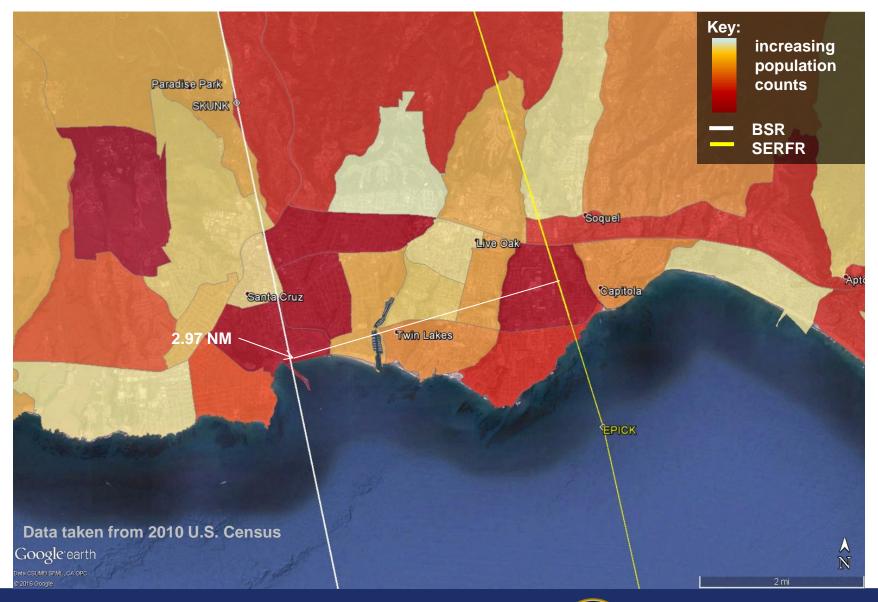


Population Density Near to the BSR and SERFR





Population Density Near to the BSR and SERFR





Vortex Generator



Vortex Generator



