

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

**FAA & Select Committee
Working Meeting**

August 4, 2016



**Federal Aviation
Administration**



Timeframes



Timeframes

- **Rulemaking (~3 years)**
 - SFO Class B Modification (#1)
 - 8 months into the process
- **Procedural Development (~1.5 – 2 years)**
 - Transition from SERFR to BSR ground track (#2)
 - Development of the south transition on NIITE (#4)
- **Operational (dependent on task)**
 - Keeping the NIITE flights on the NIITE SID until the NIITE waypoint (#3)
 - Keeping the CNDEL flights on the CNDEL SID until CNDEL waypoint (#5)



SFO Procedural Amendments



SFO Procedural Amendments

- **7/21/2016 Publication**

- The DYAMD STAR was amended to be contained within SFO Class B
 - Once the Class B is amended, it will be changed back.
- Editorial notes were removed from the SERFR STAR, per ATC request

- **9/15/2016 Publication**

- Procedures up-numbered to reflect an administrative changes to multiple navigational aids (NAVAID).



Recap of Previous Working Meetings



Recap of Previous Working Meetings

- **Once the SFO Class B is amended, more flights can fully execute an OPD. This is expected to alleviate some of the noise due to aircraft leveling off to remain in the current Class B.**
- **The current and proposed amended Class B contains the BRIXX STAR.**
- **There are no conflicts between the BRIXX and the SERFR. The BRIXX was designed to de-conflict from the SERFR.**
- **Vectoring is a tool used to space and sequence aircraft to ensure safe operations.**
- **Completes discussion on solution groups 1,3,4, and 5.**



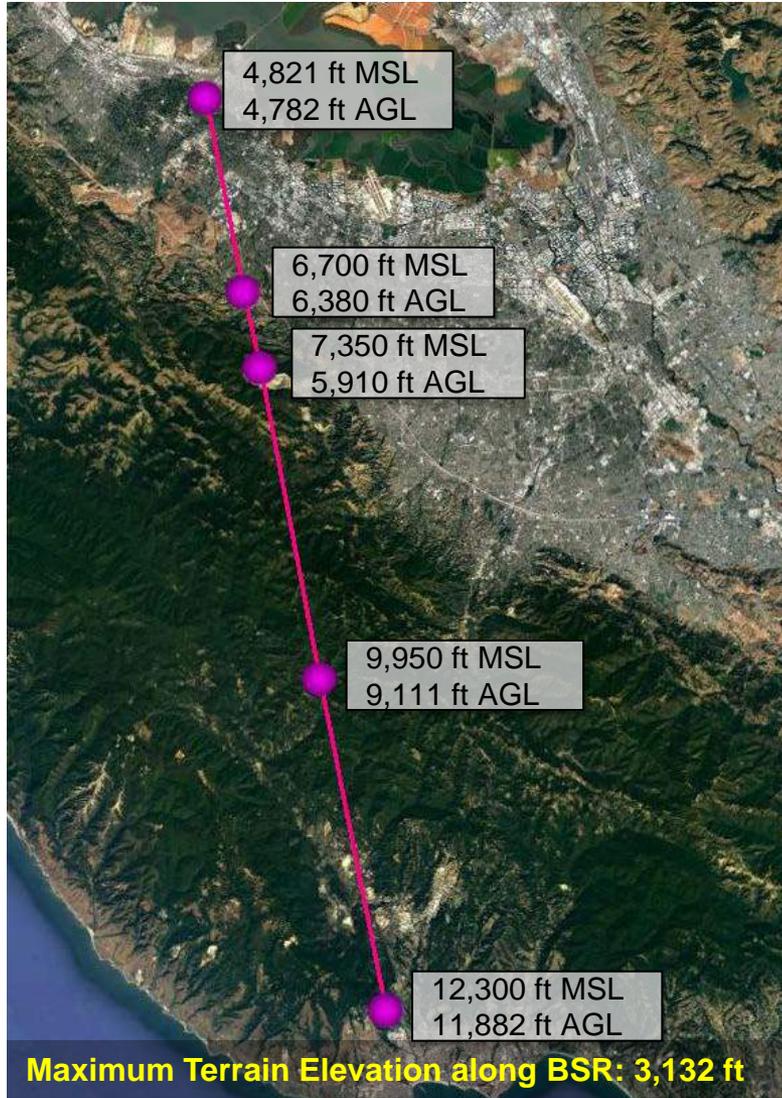
Transition the SERFR STAR Back to the BSR Ground Track Prior to EPICK



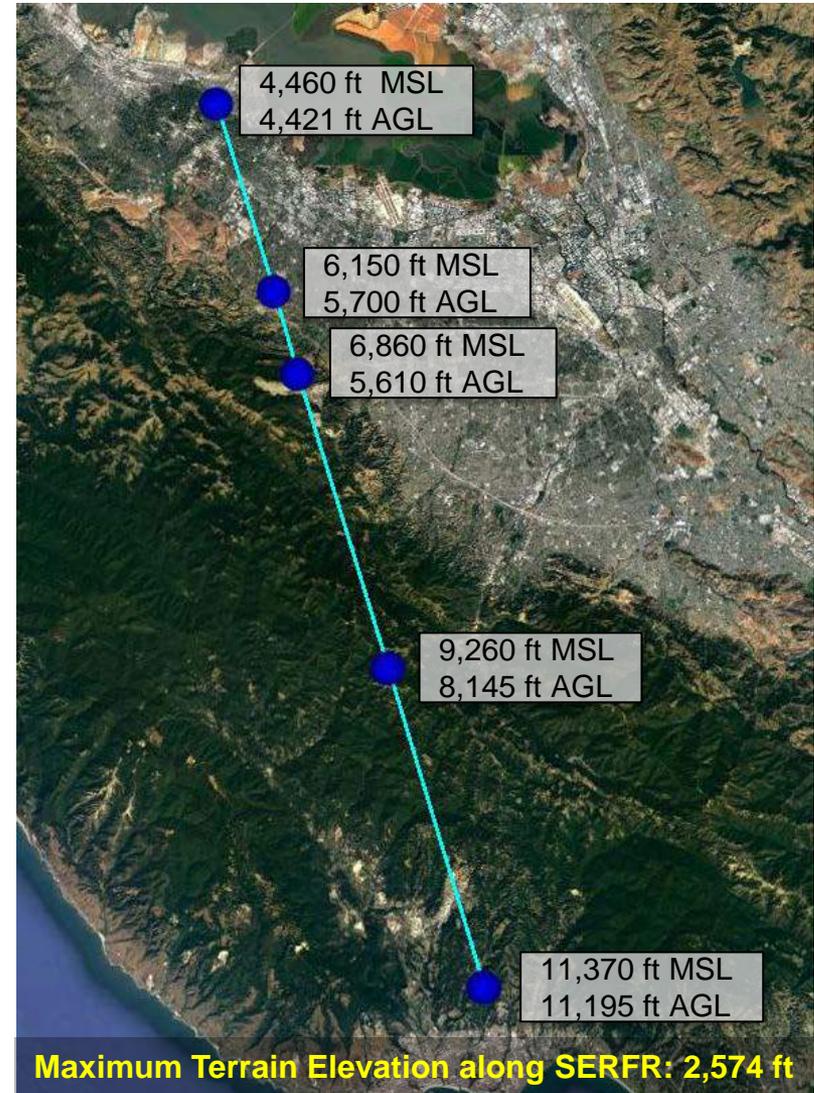
BSR – SERFR Altitude and Elevation Comparison



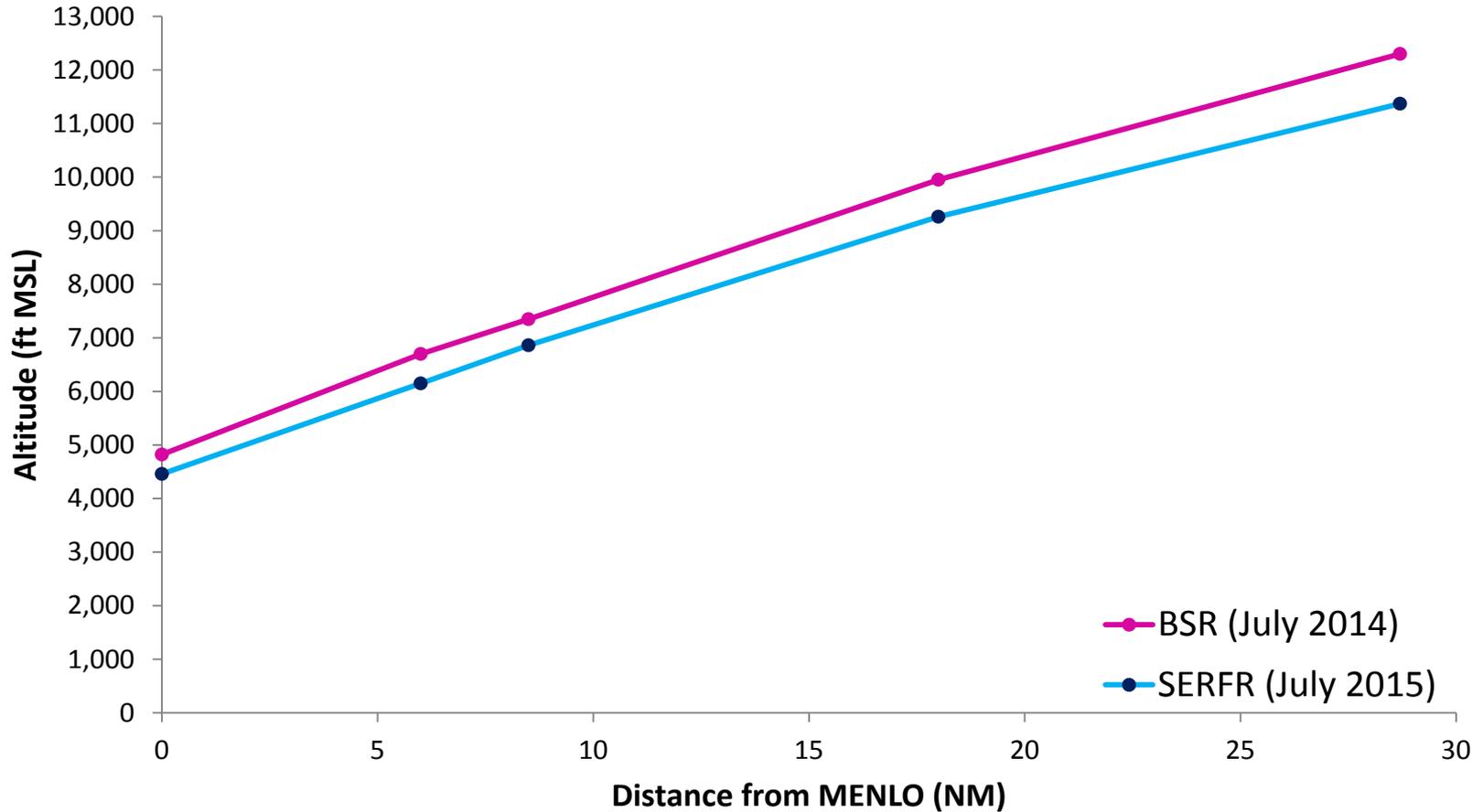
Average altitude on the BSR (July 2014)



Average altitude on the SERFR (July 2015)



BSR-SERFR Average Altitudes



Maximum Elevation



SERFR



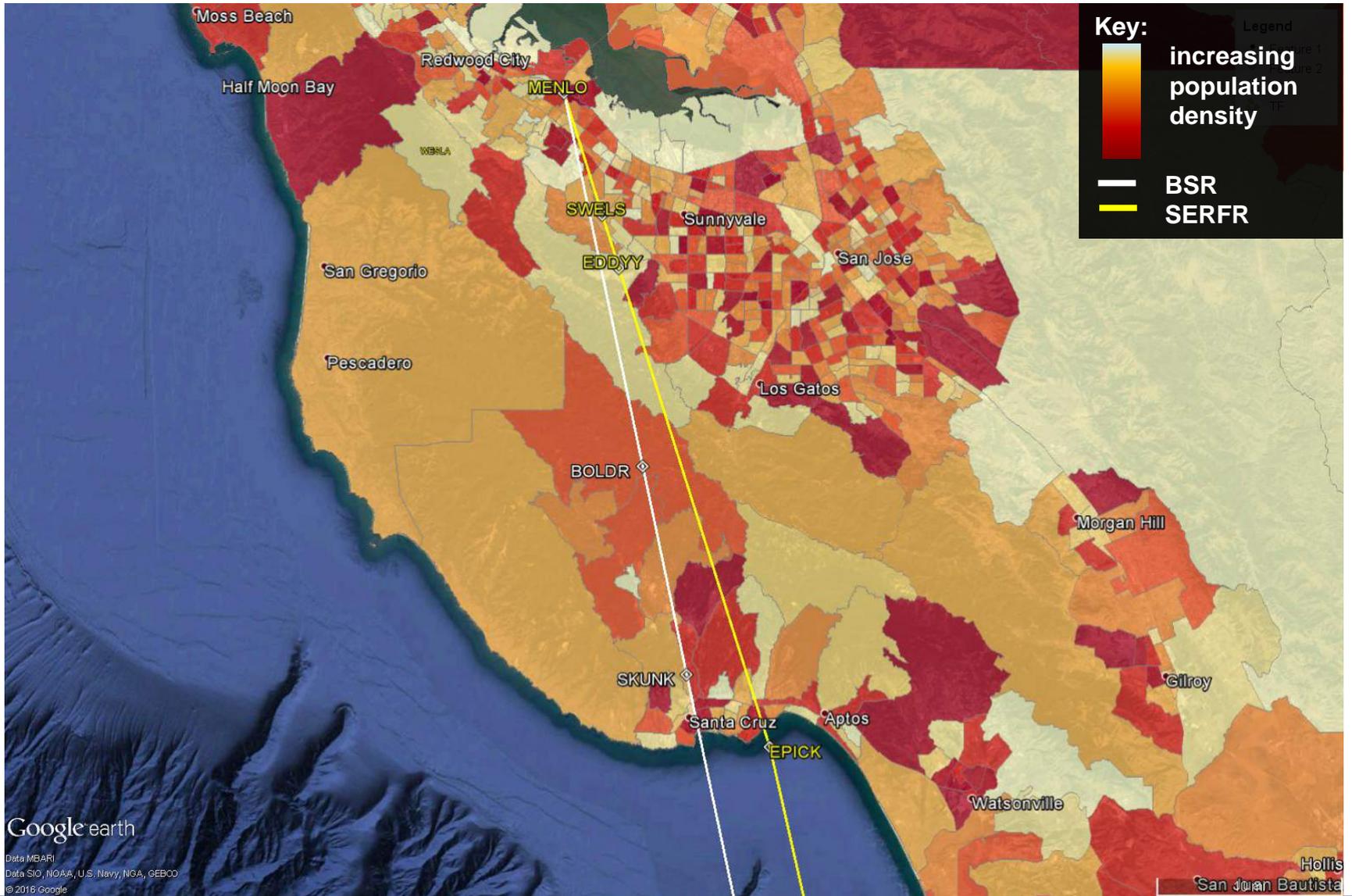
BSR



BSR – SERFR Population Count Comparison



Population Density Near the BSR and SERFR



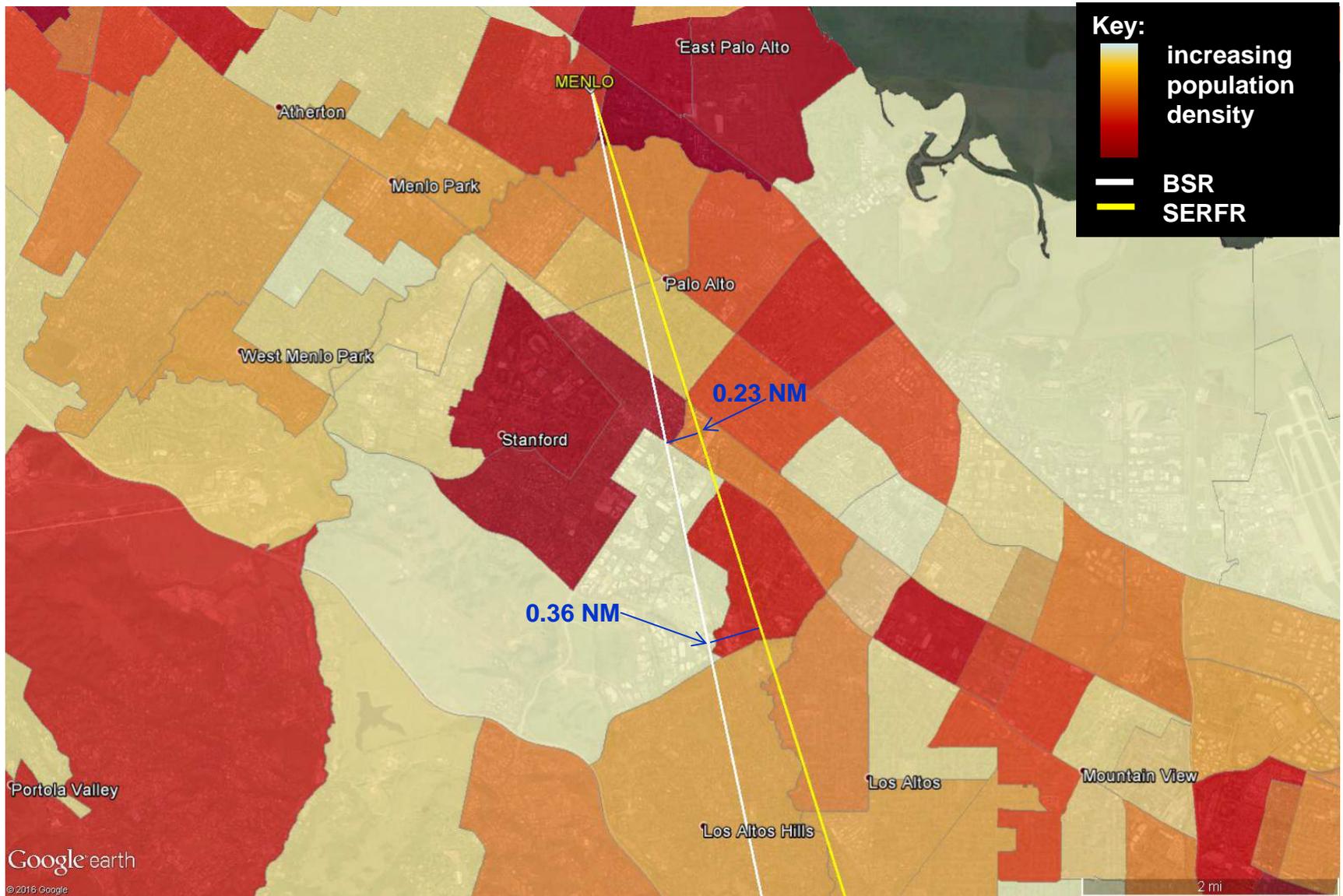
Google earth

Data MBARI
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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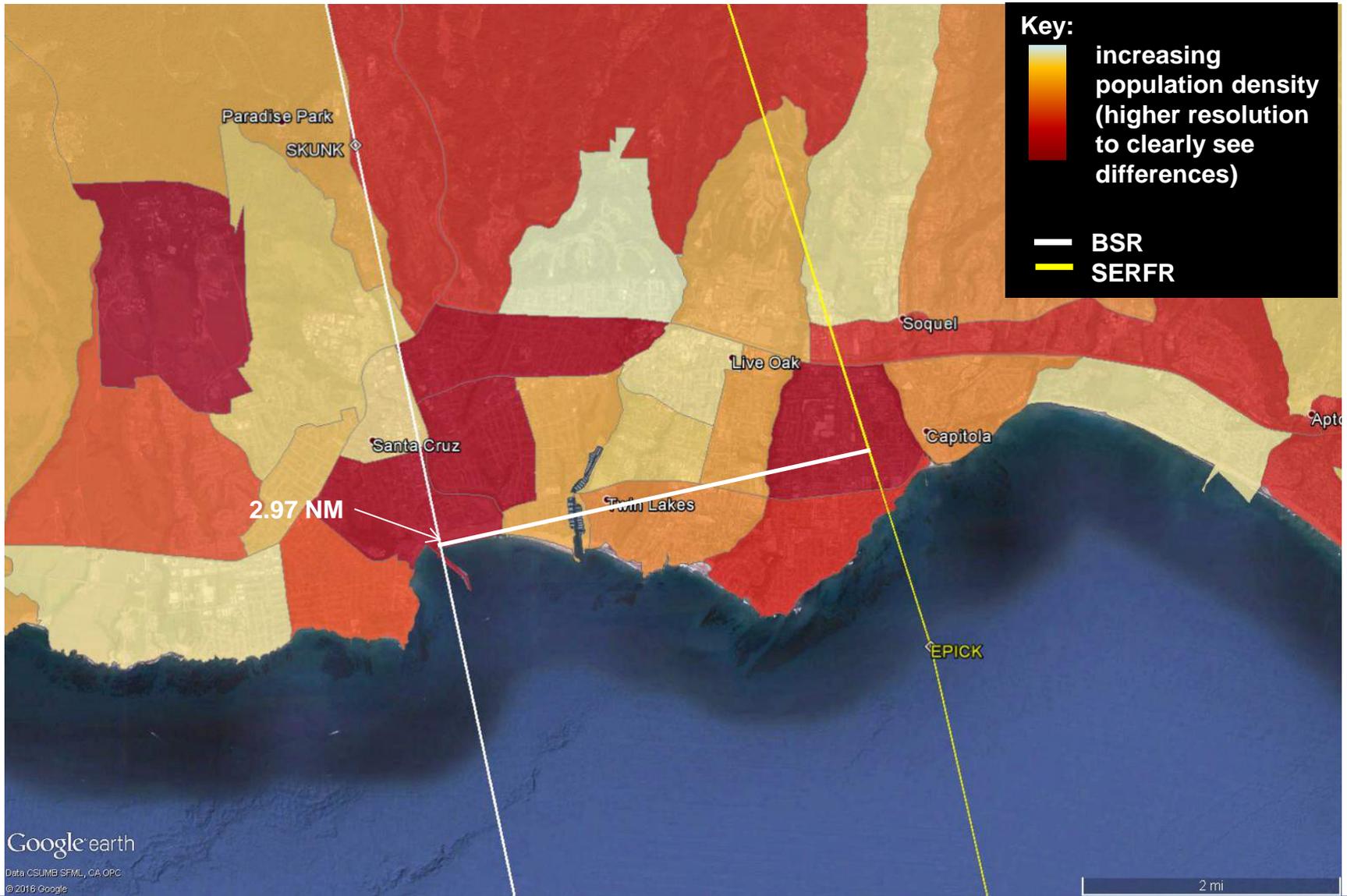
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Population Density Near the BSR and SERFR



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Population Density Near the BSR and SERFR



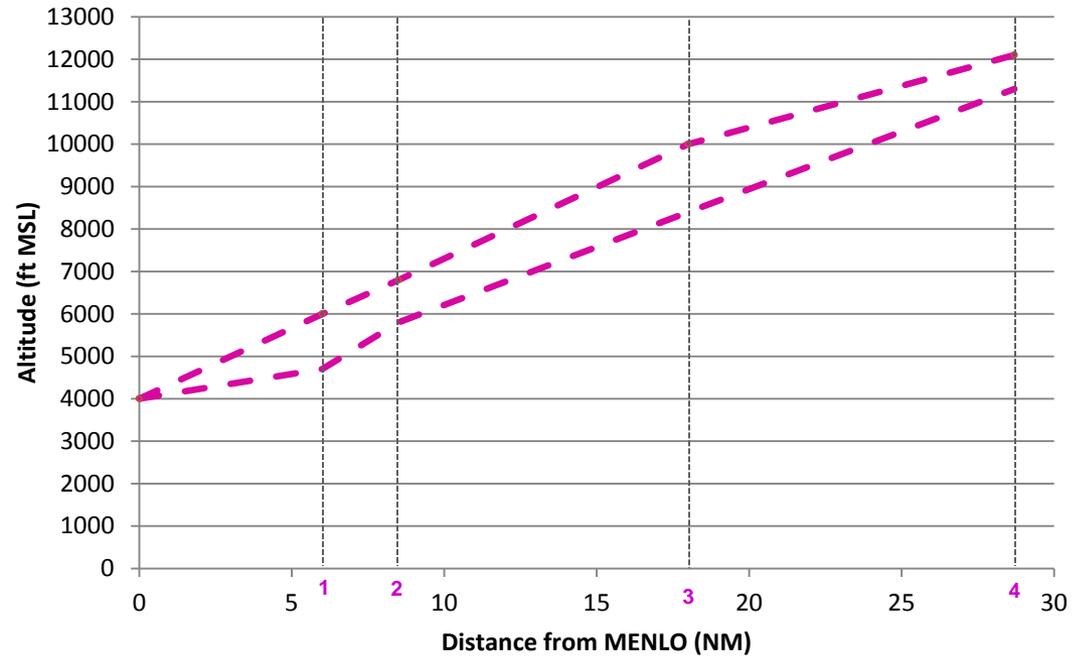
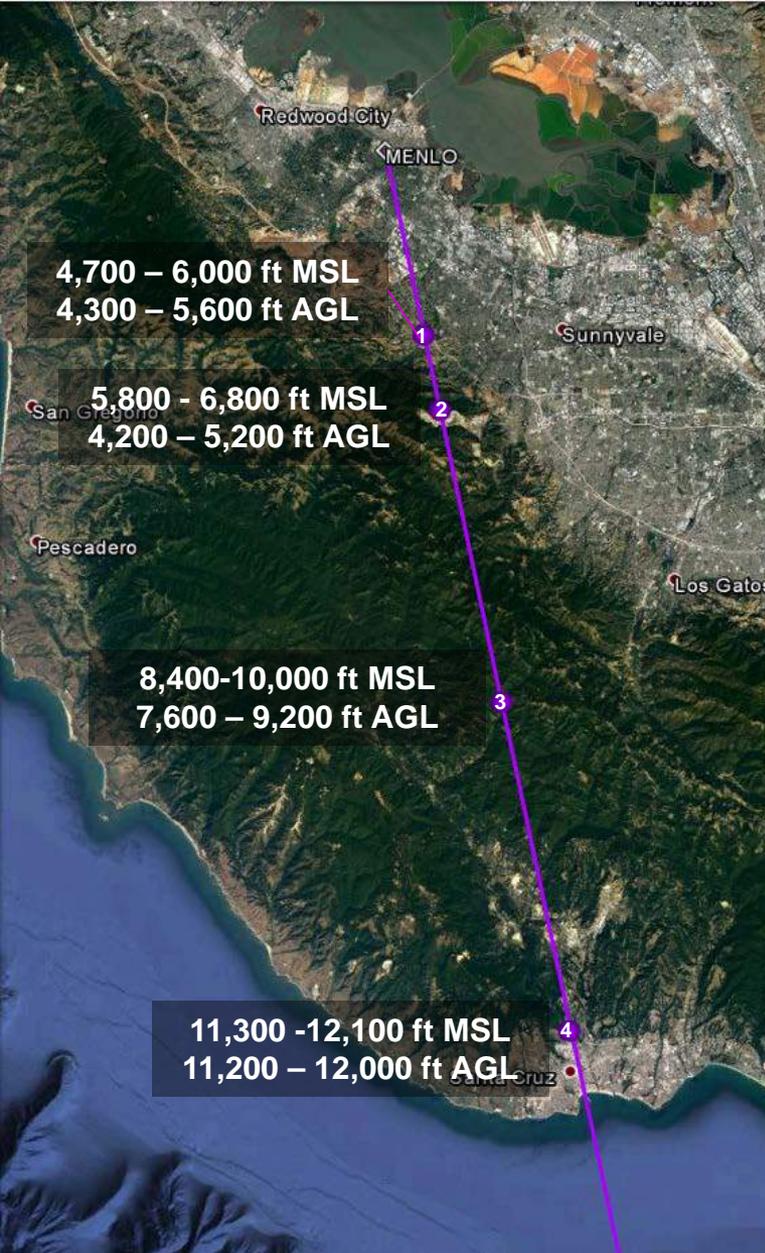
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Moving SERFR back to the BSR ground track prior to EPICK: DAVYJ STAR

- For this presentation – the DAVYJ STAR is a notional concept of an OPD over the BSR ground track.
- The altitudes of the optimized DAVYJ STAR are higher than the SERFR STAR, but lower than BSR STAR.
- If fully optimized, DAVYJ will not be contained within the current SFO Class B.
- The OPD of the DAVYJ STAR would be contained within the proposed amendment to SFO Class B.



Estimated Altitudes of the DAVYJ STAR



--- Estimated altitude bounds of the provisional DAVYJ STAR

