

Systems Representation in CalLite

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CalLite Workshop
July 18, 2012





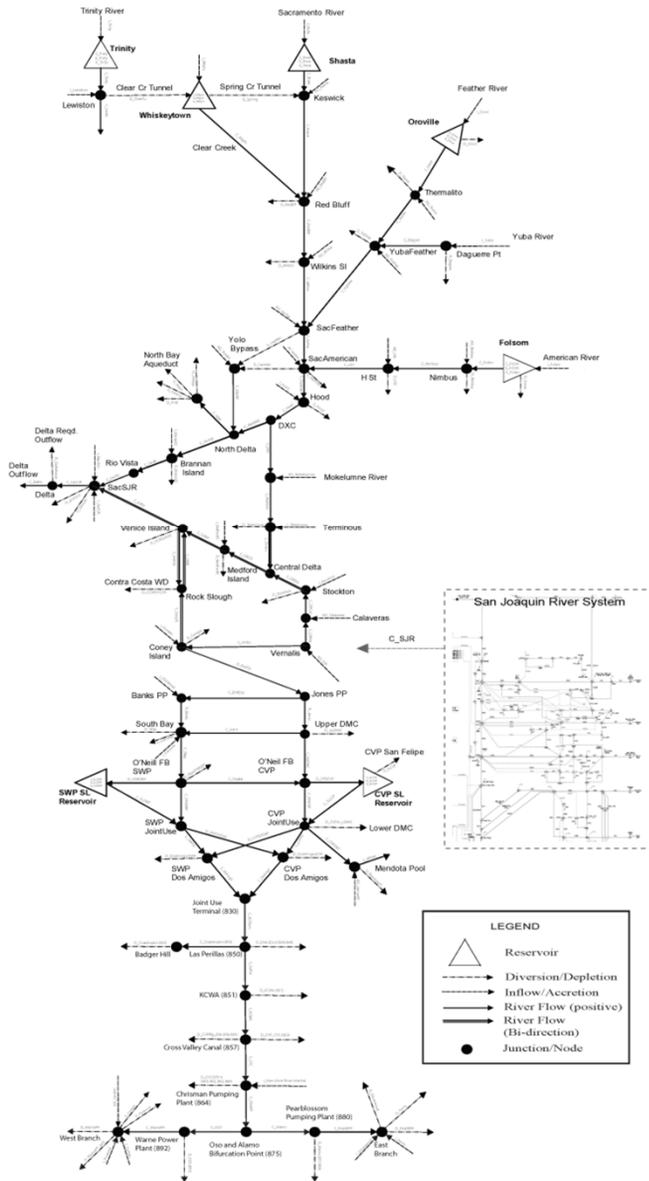
Outline

- CalLite Schematic and Major System Features
(excluding San Joaquin)
- Corroboration Studies with CalSim II

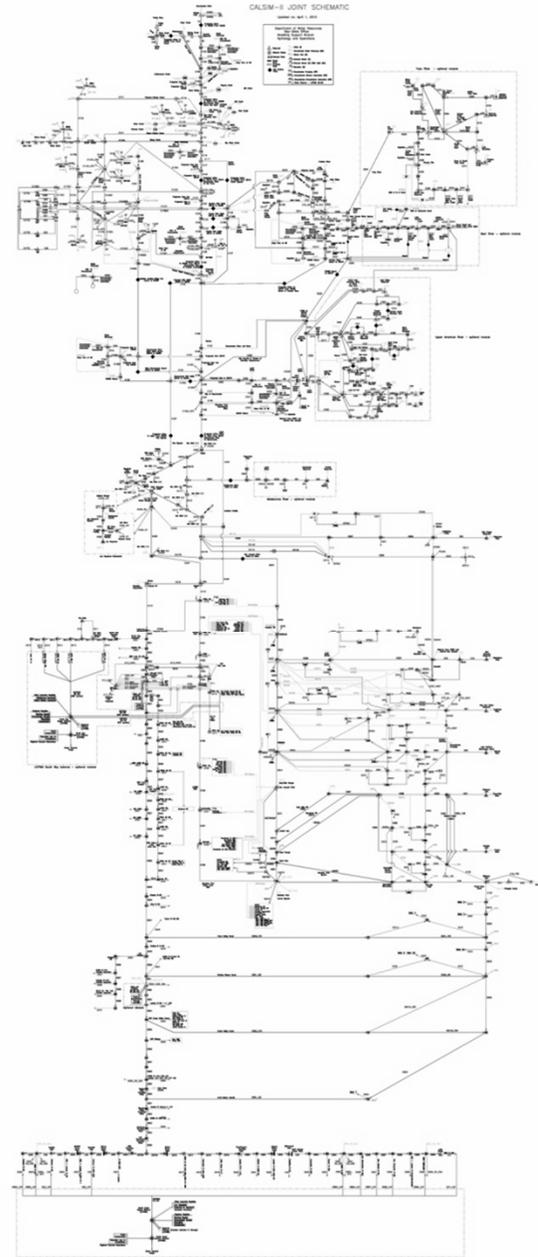


CalLite Schematic

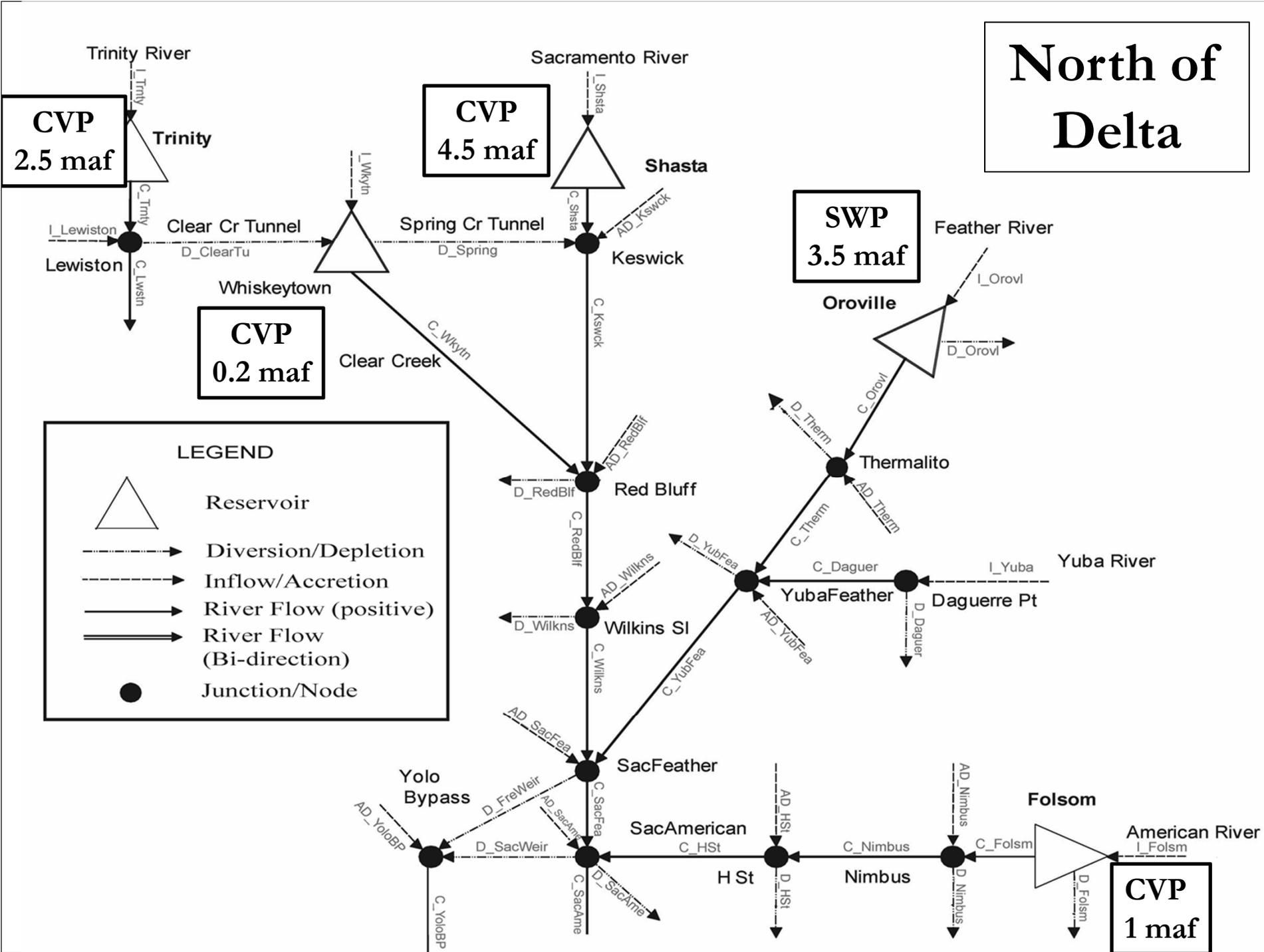
WRIMS CalLite Schematic
August 30, 2010



CalSim Schematic



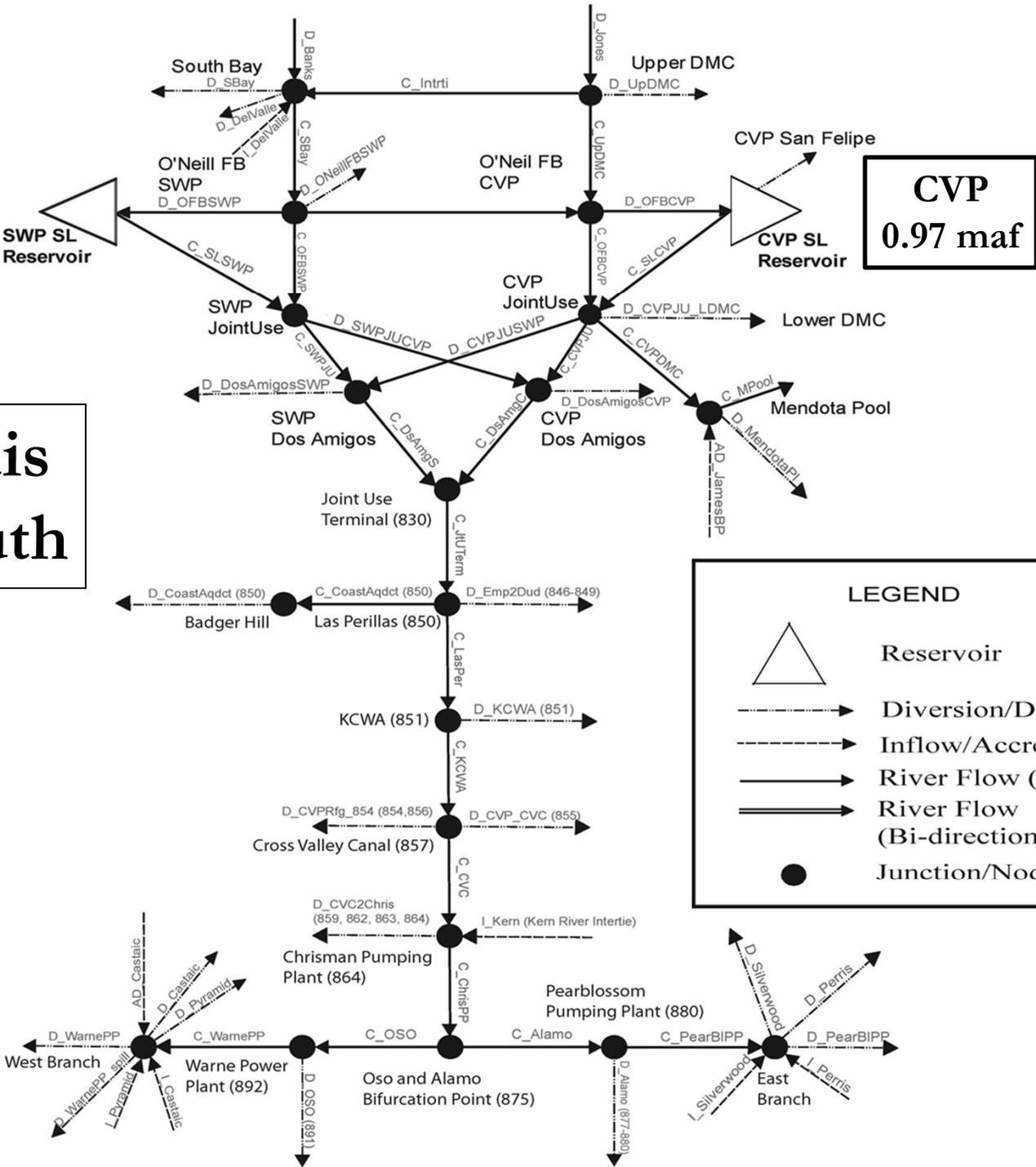
North of Delta



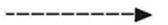
SWP
1.1 maf

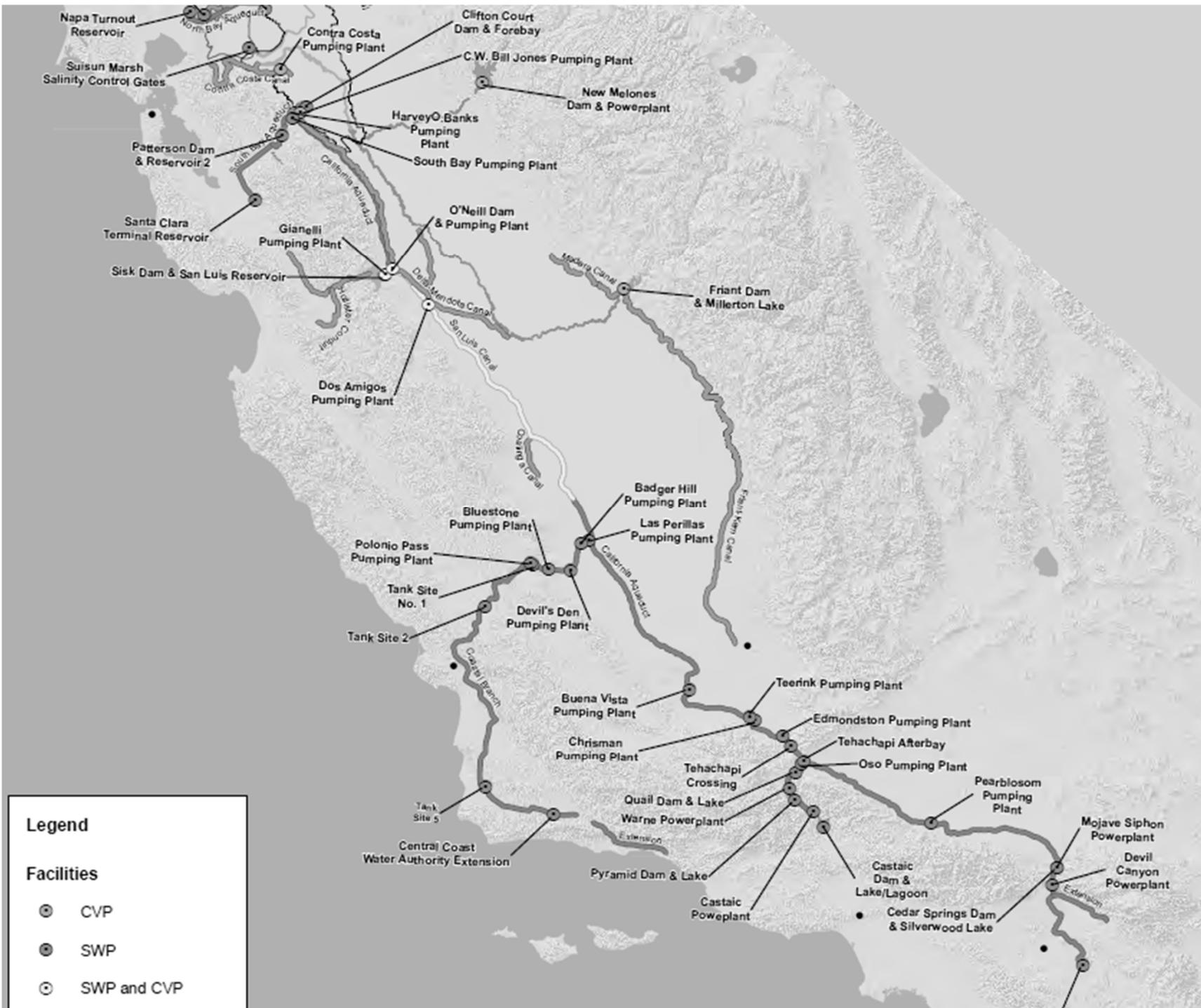
CVP
0.97 maf

**San Luis
and south**



LEGEND

-  Reservoir
-  Diversion/Depletion
-  Inflow/Accretion
-  River Flow (positive)
-  River Flow (Bi-direction)
-  Junction/Node



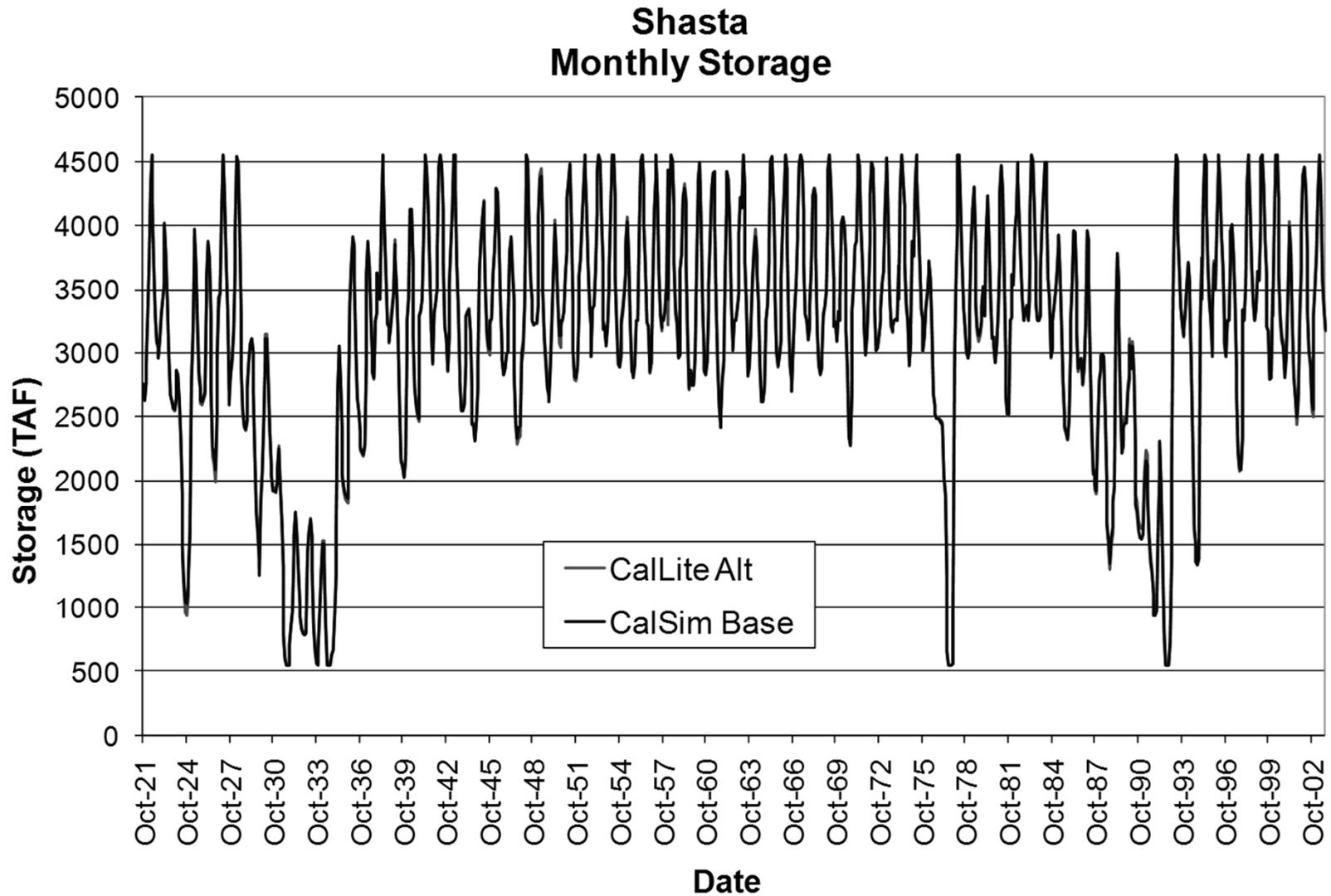


Corroboration Studies with CalSim II

- Comparisons of major model outputs conducted under Future (2020) and Existing (2005) Level of Development, with BO and pre-BO standards.
- Comparison of exports/SOD deliveries and reservoir storages under different combinations of RPAs and sea level rise conditions.

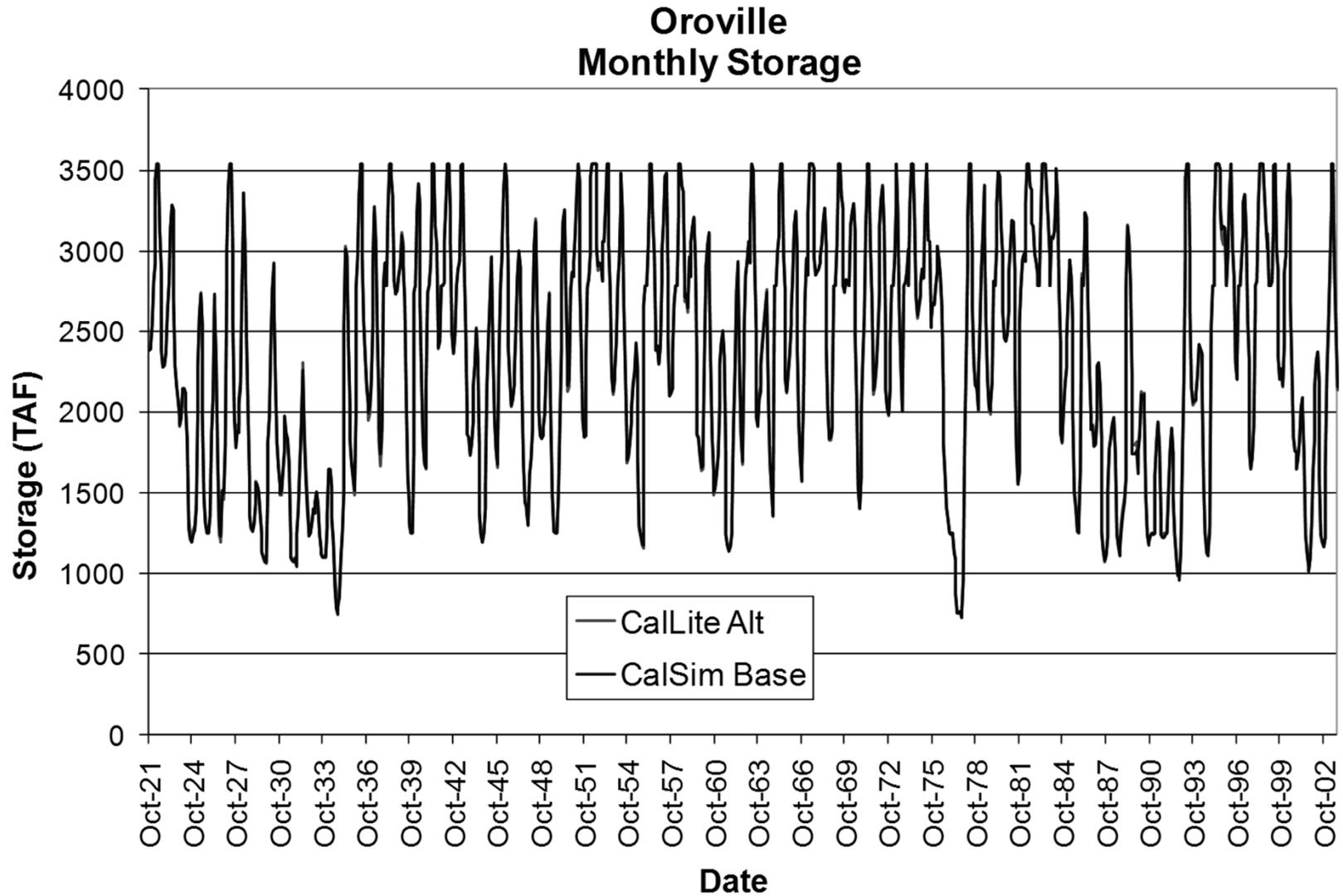


Future LOD, BO standards





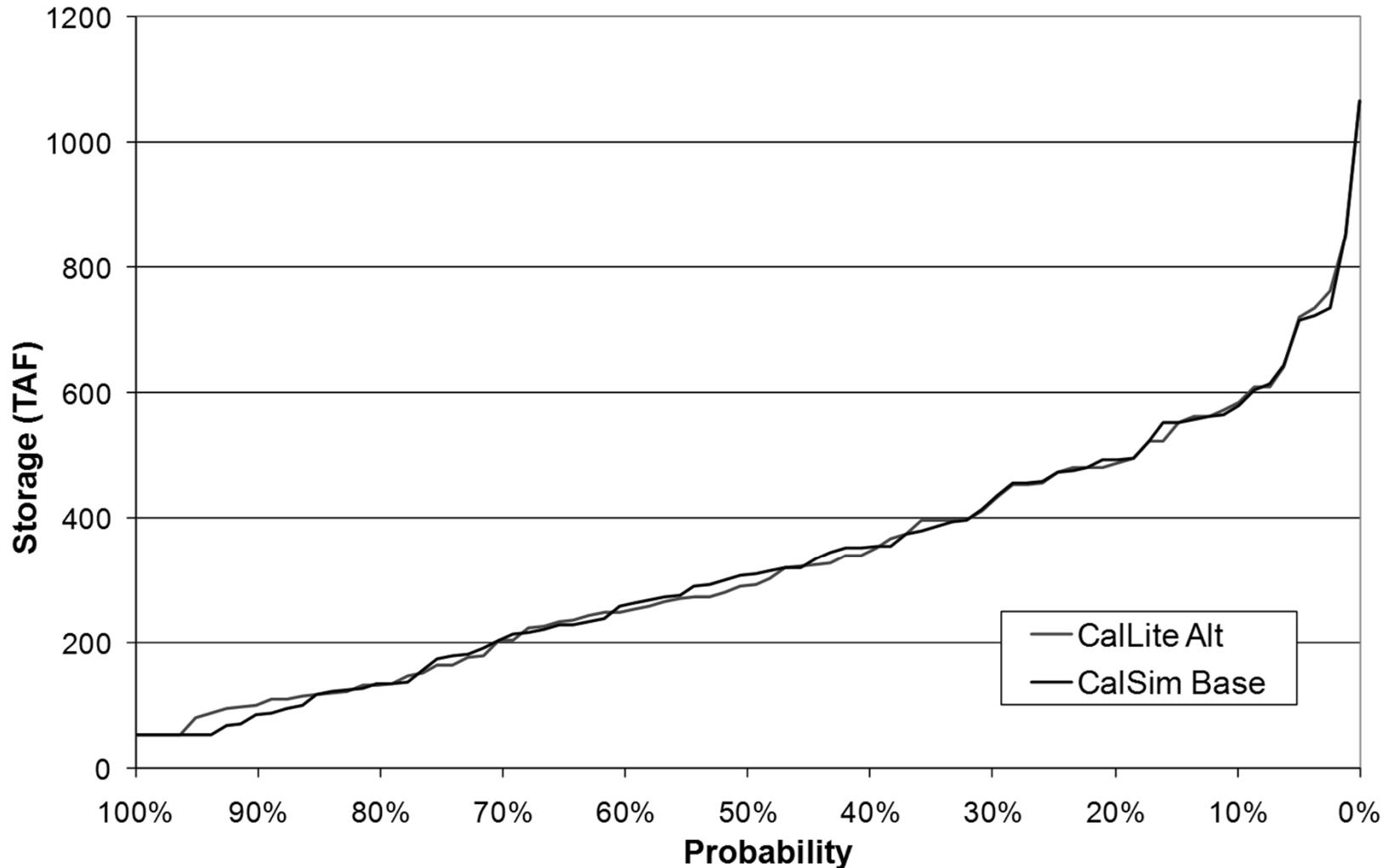
Future LOD, BO standards





Future LOD, BO standards

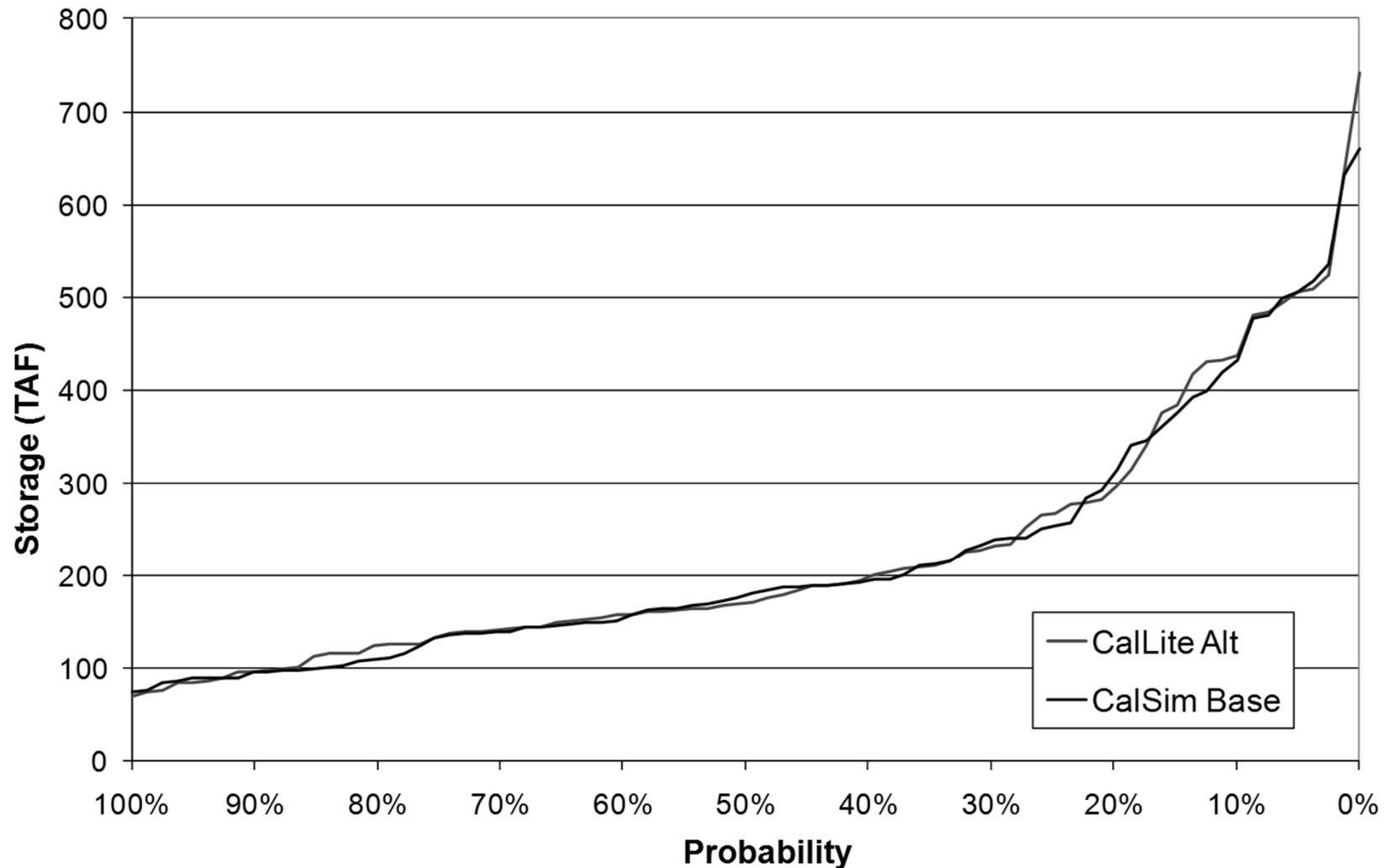
San Luis (SWP) Storage Exceedance Probability (end of September)





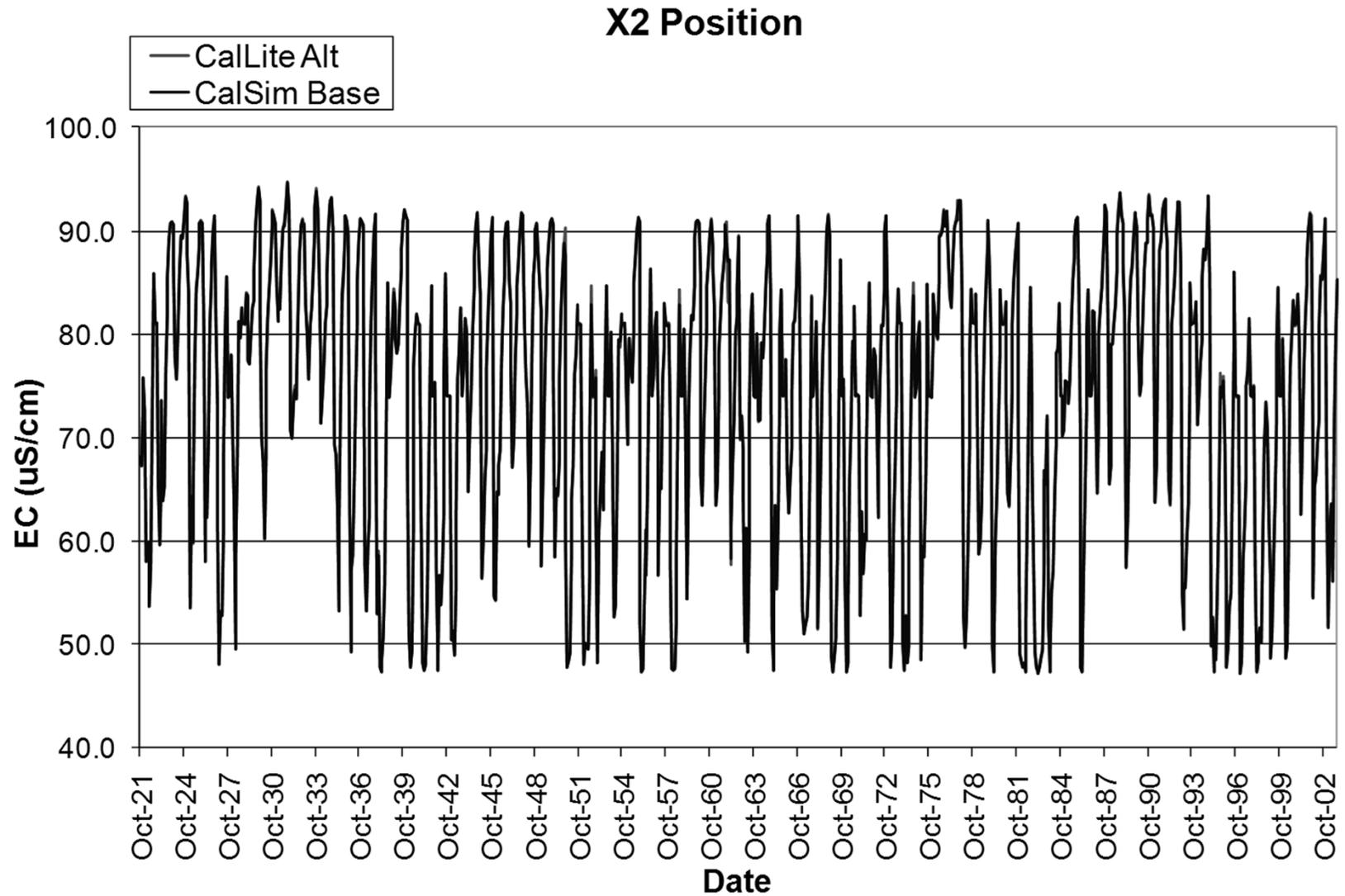
Future LOD, BO standards

San Luis (CVP) Storage Exceedance Probability (end of September)



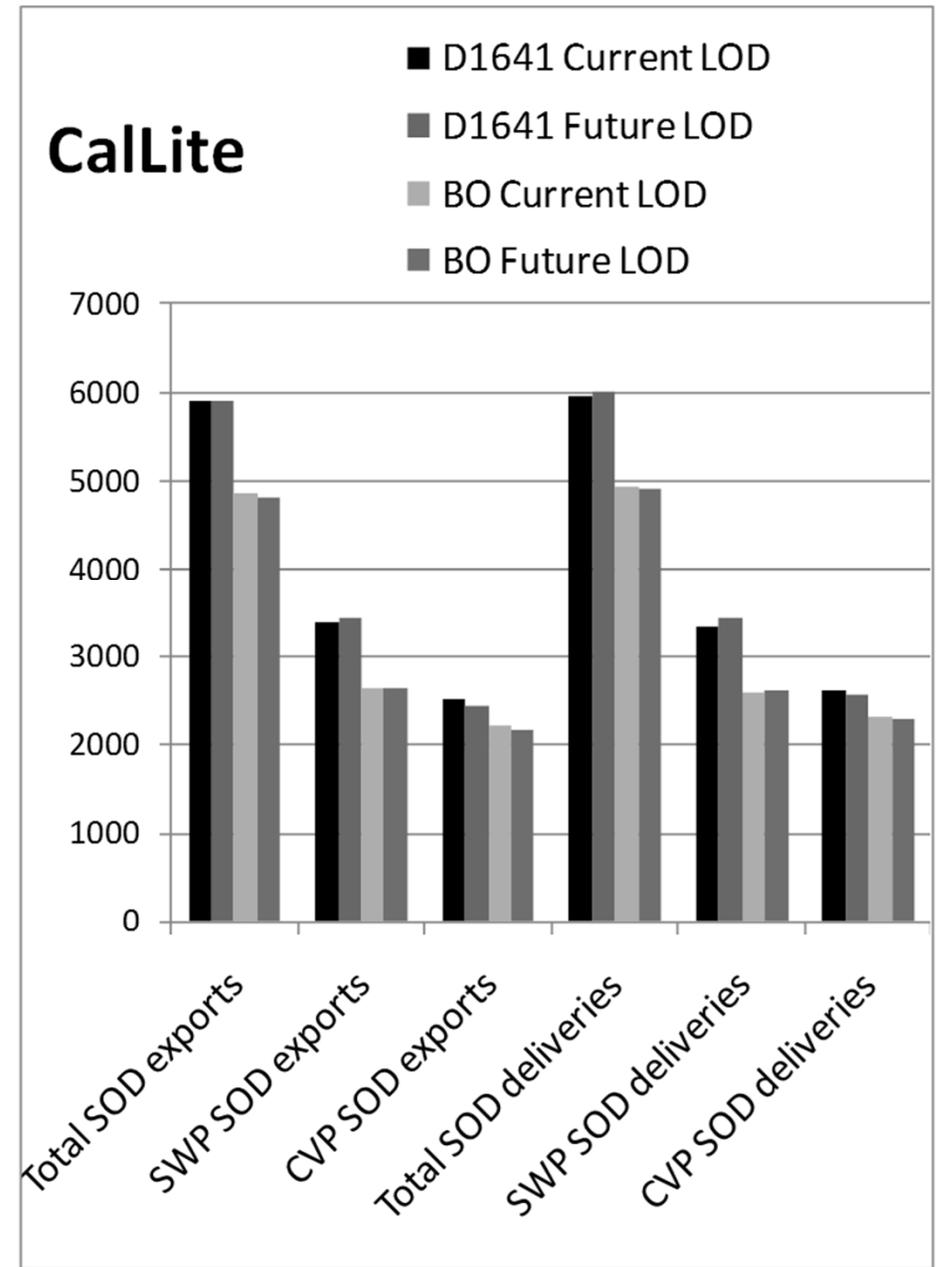
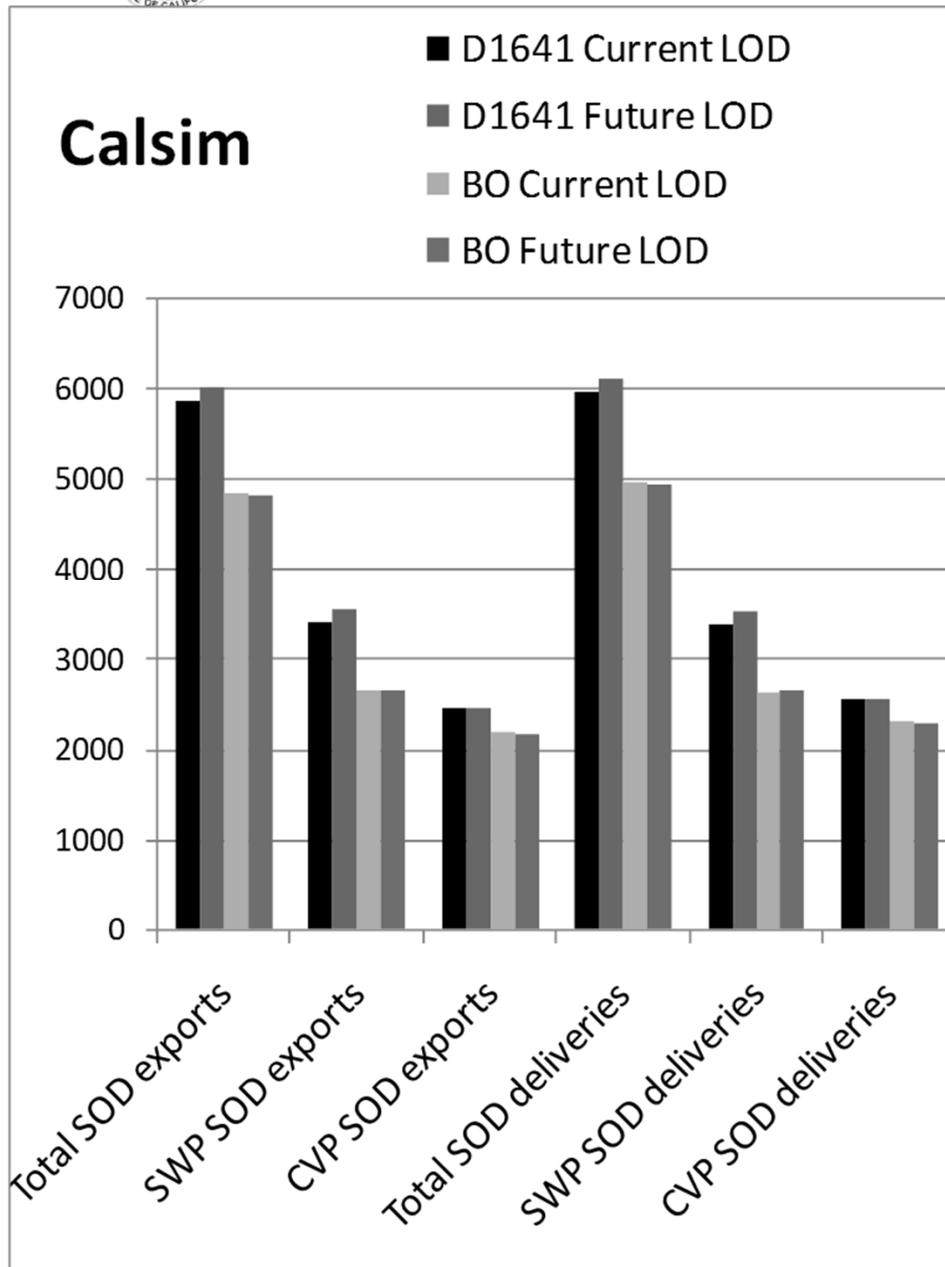


Future LOD, BO standards



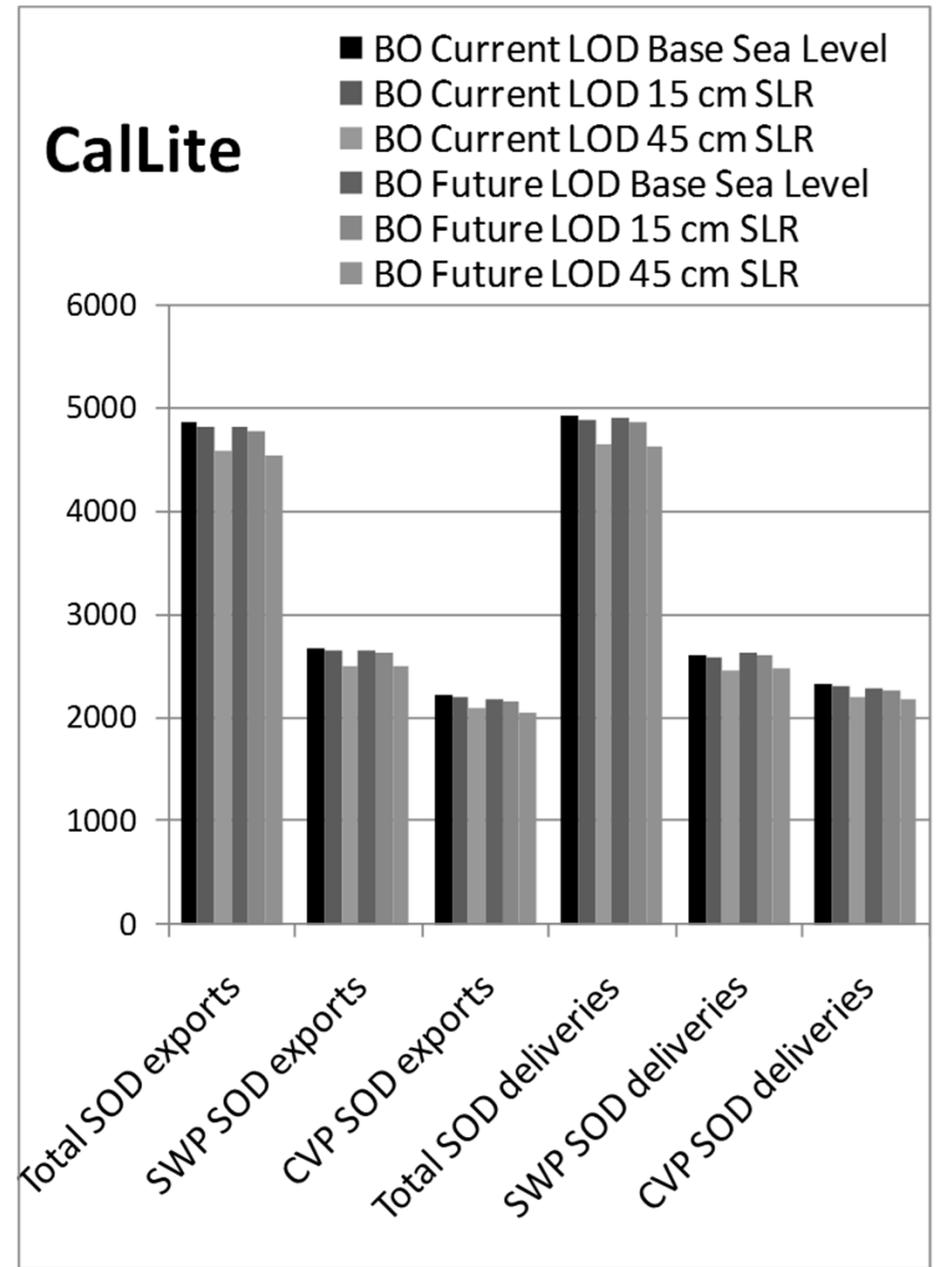
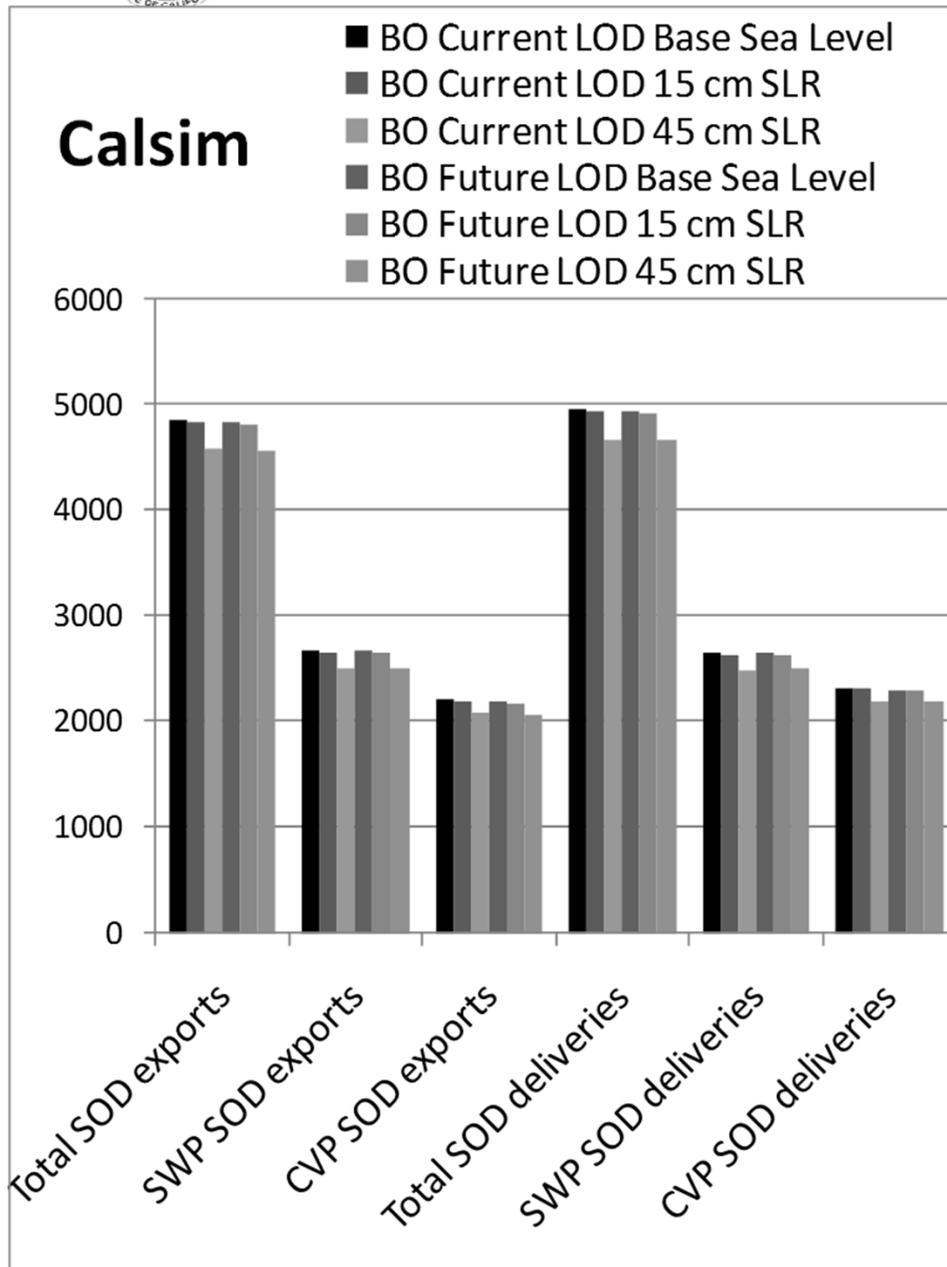


D-1641 vs BO Standards



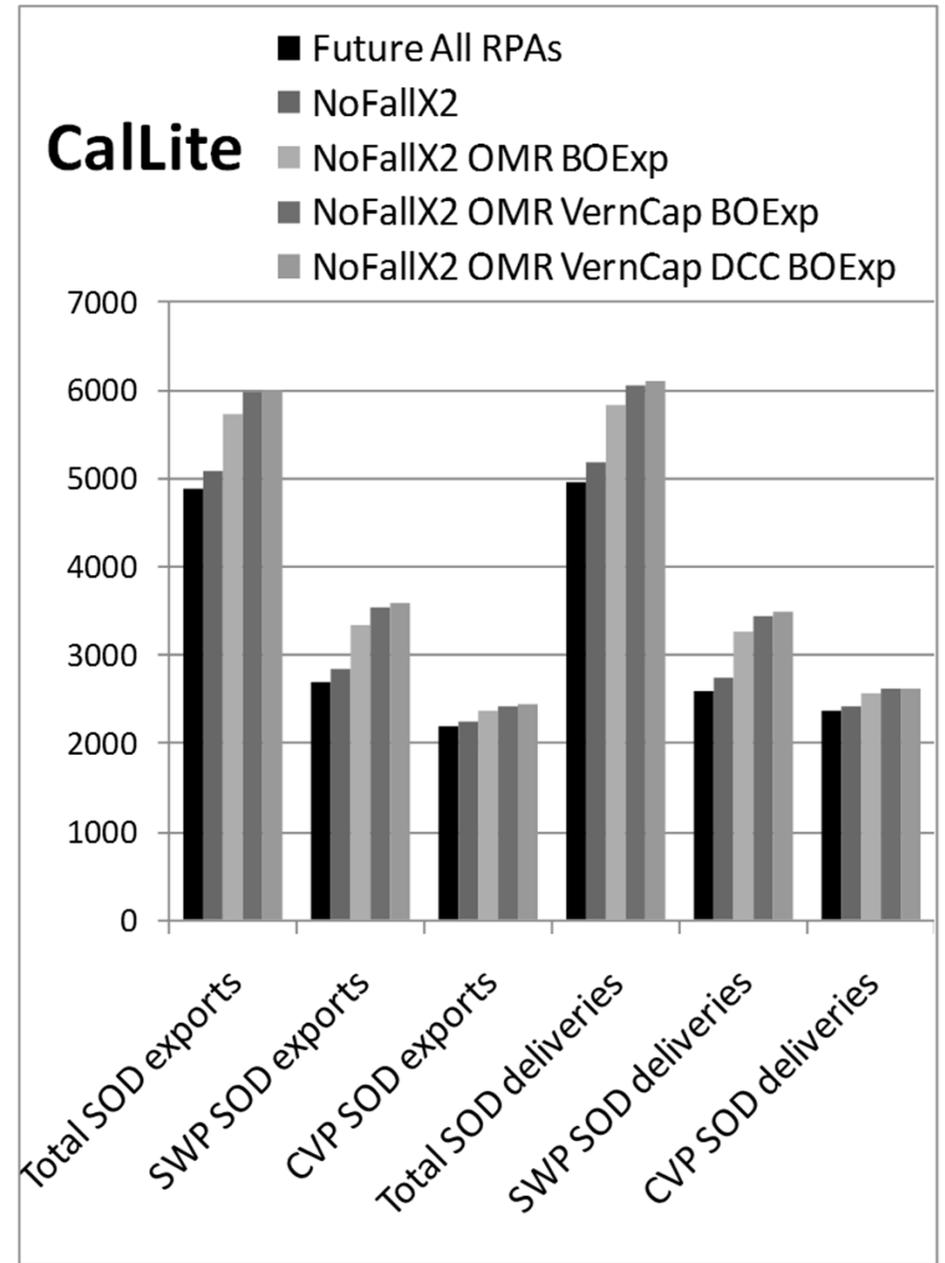
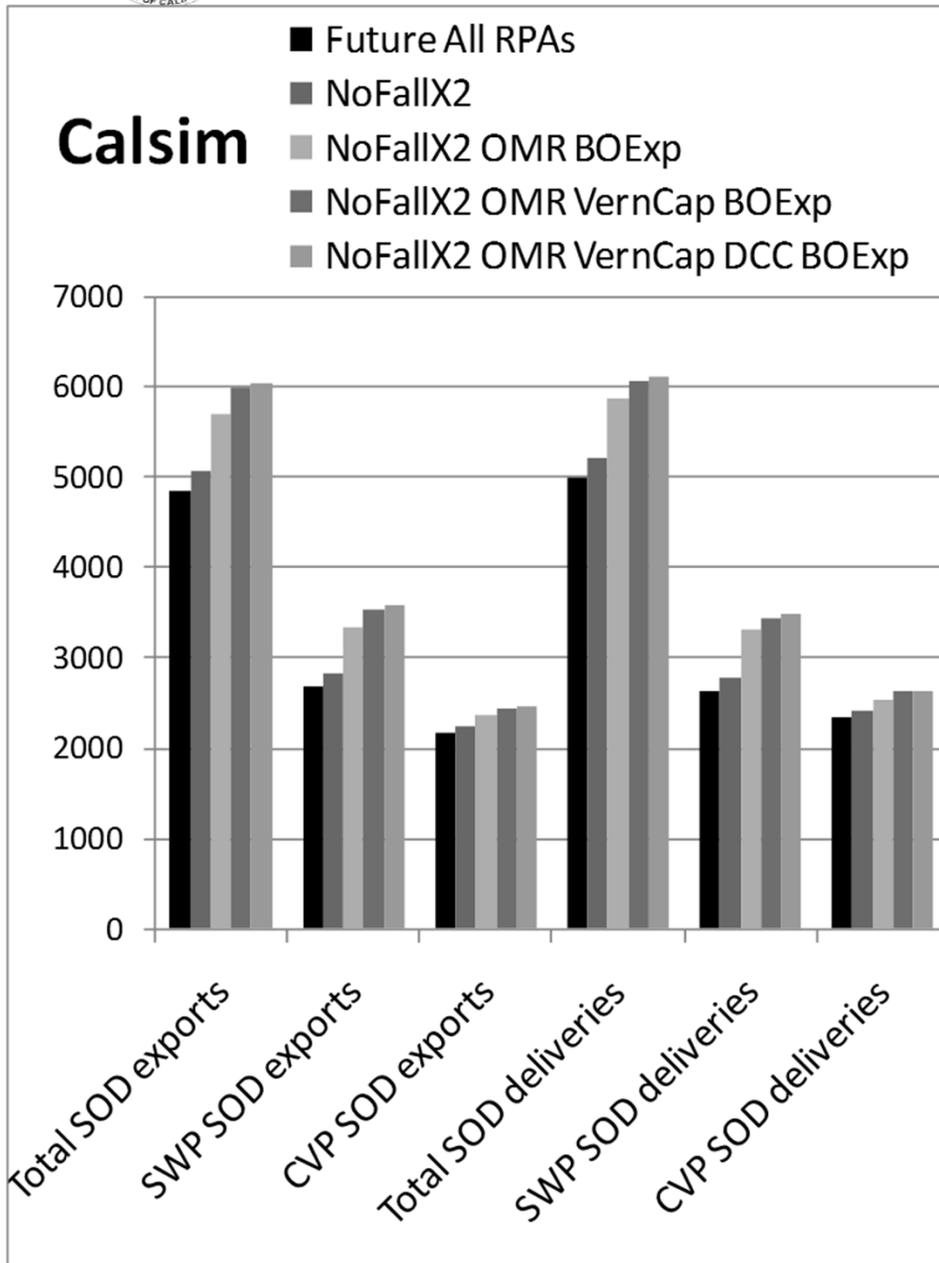


Sea Level Rise Comparisons



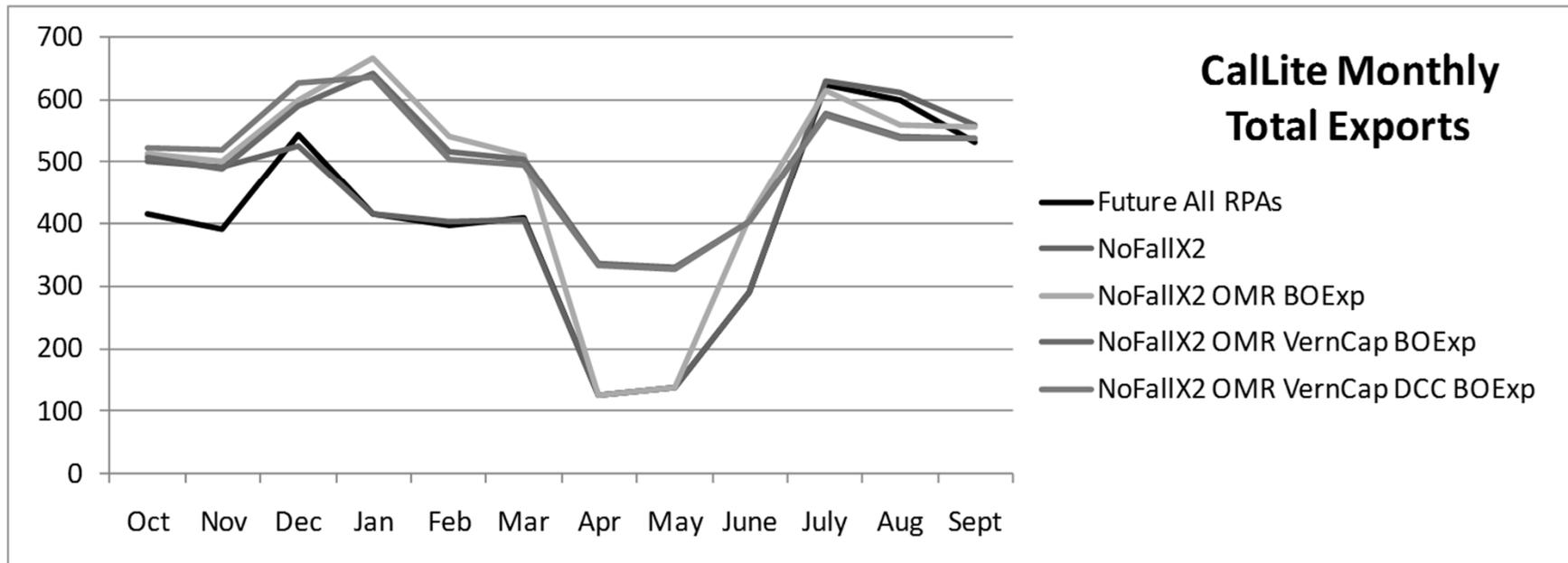
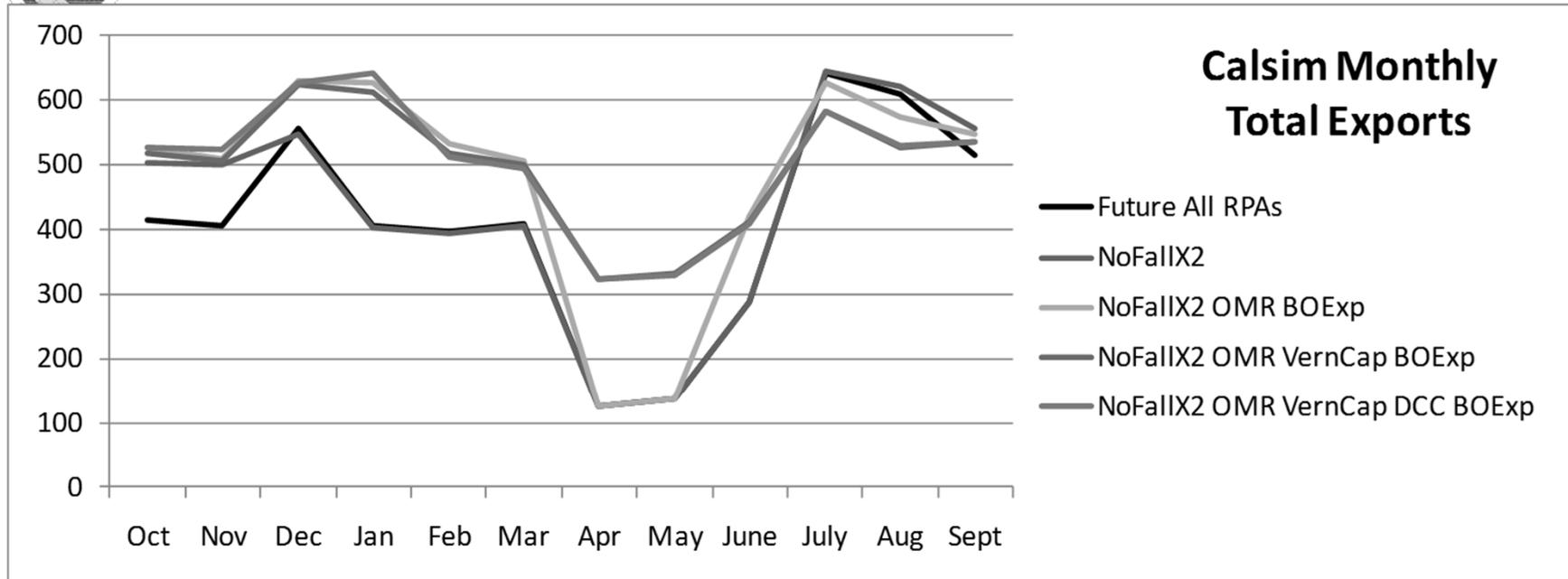


Different RPA Combinations



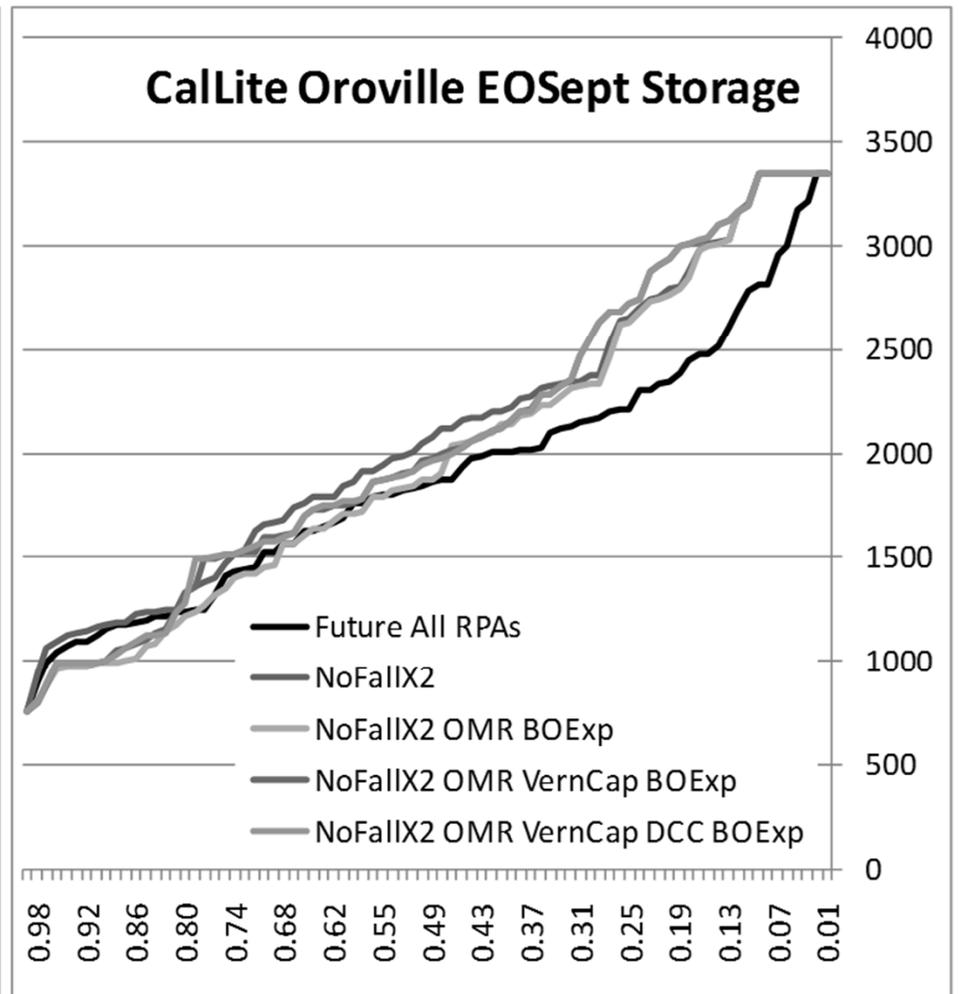
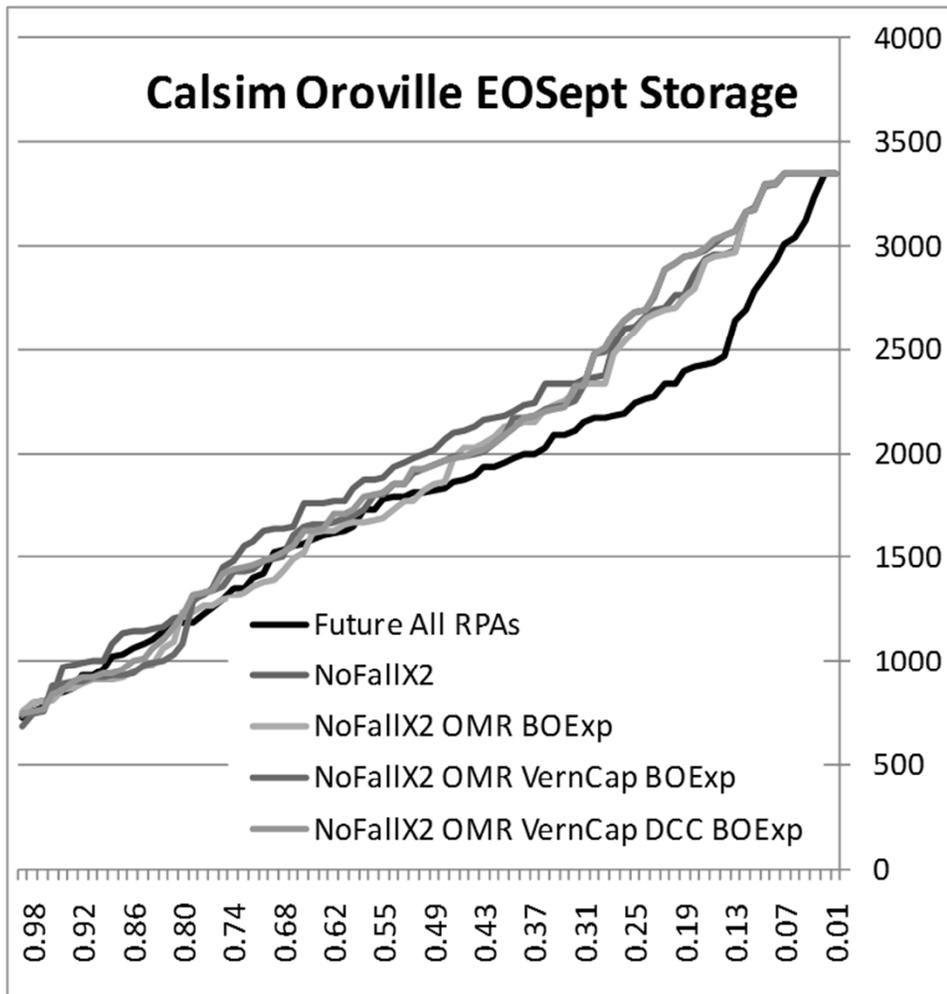


Different RPA Combinations



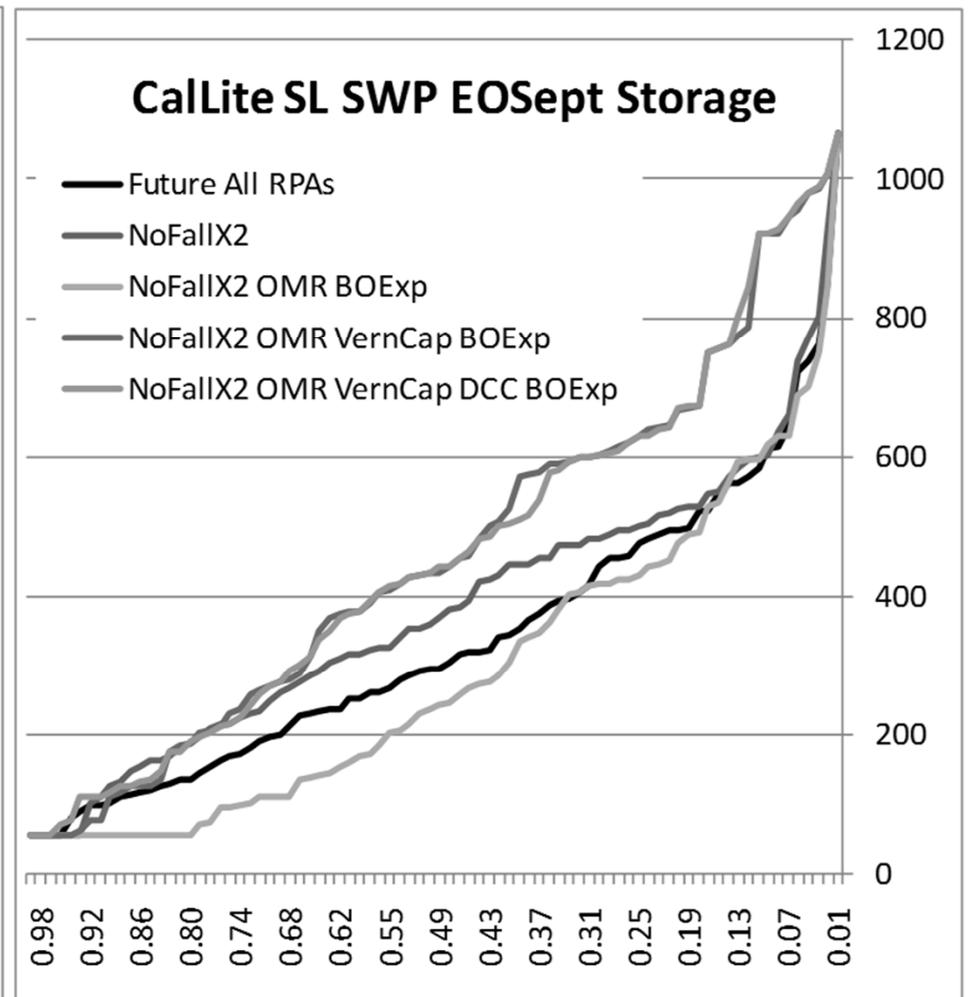
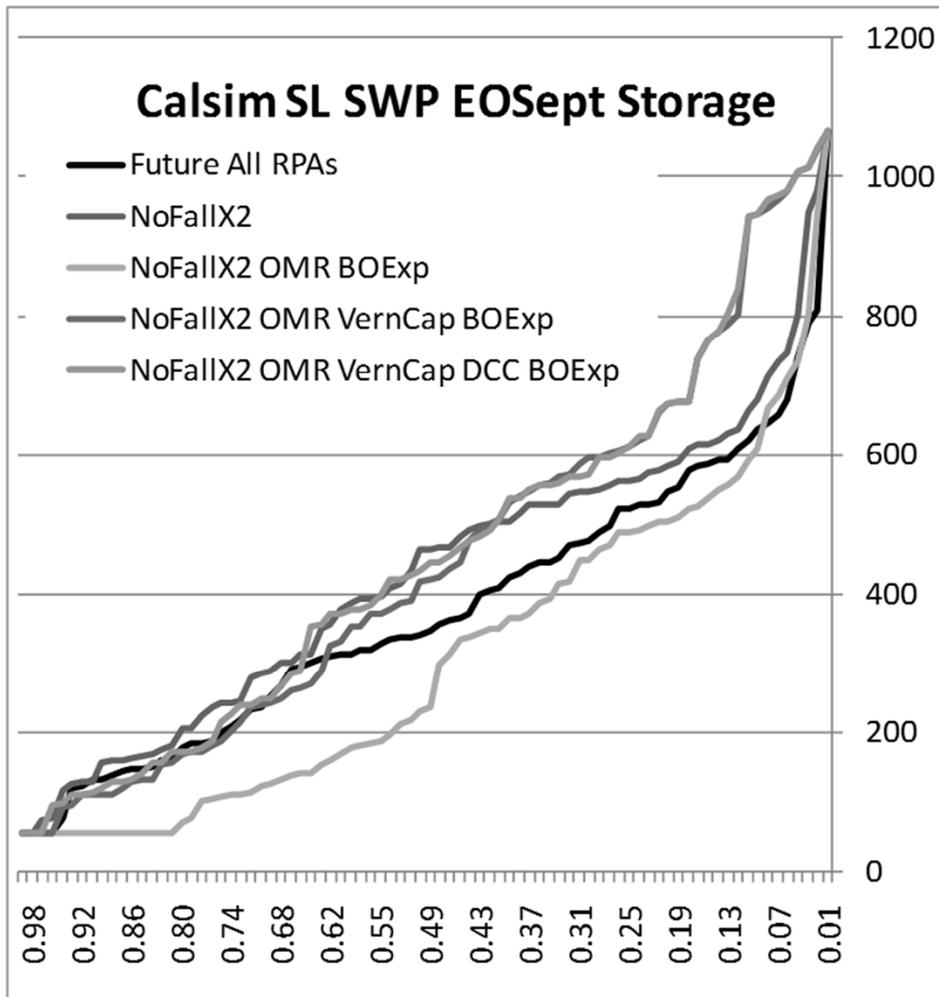


Different RPA Combinations



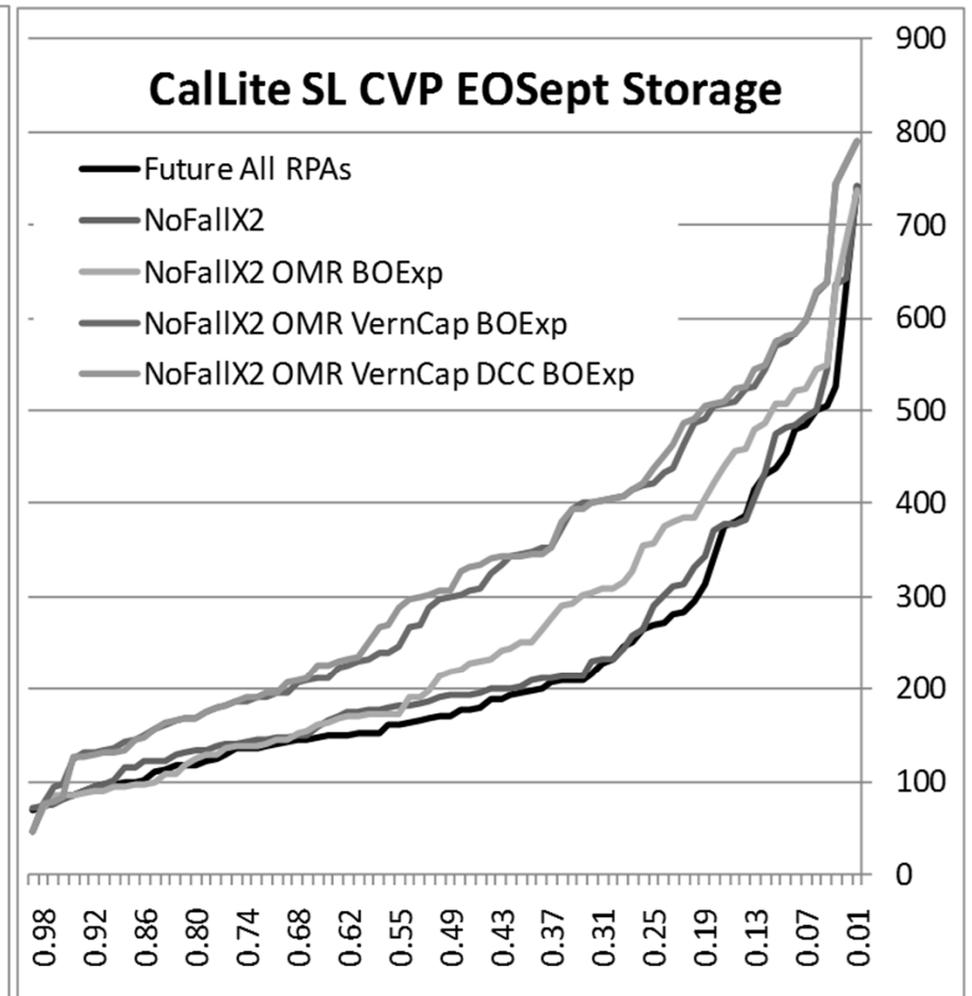
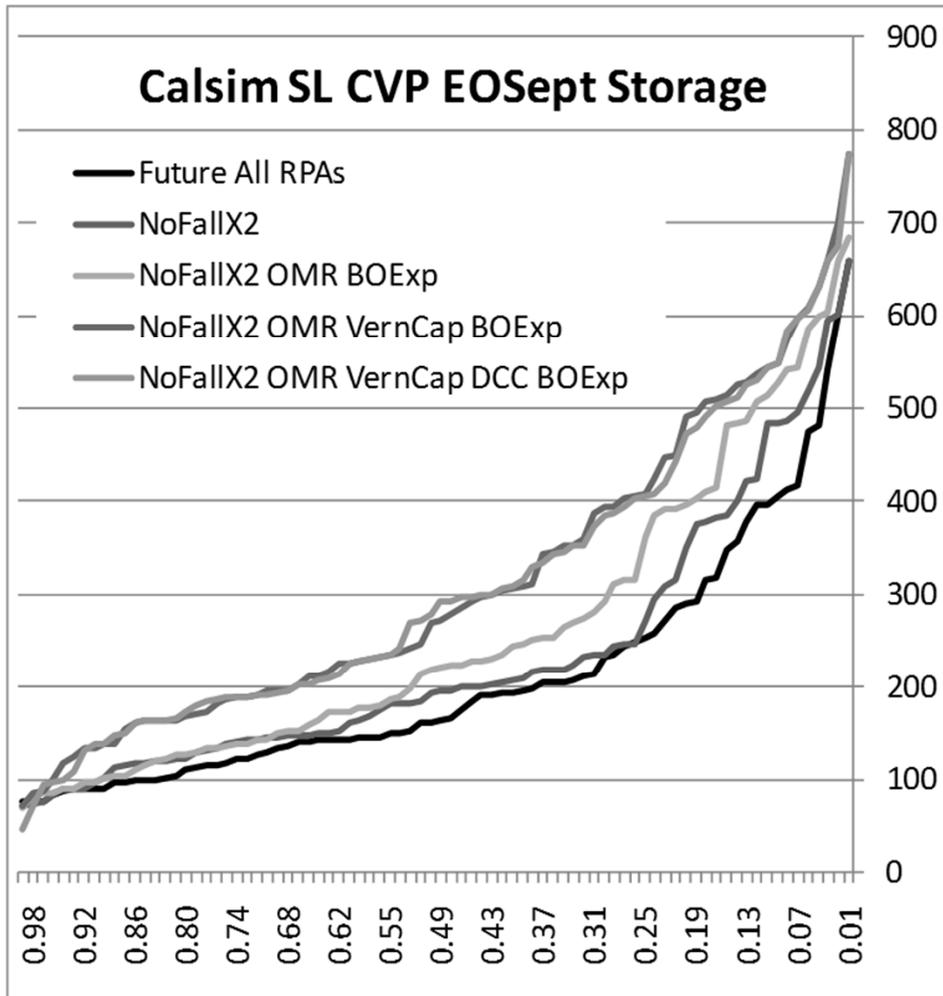


Different RPA Combinations





Different RPA Combinations





CalLite Accretion-Depletion Terms

- Accretion-Depletion terms:
 - To account for differences between CalSim II and CalLite (more detailed schematic, return flows, gw pumping) adjustments are made at each CalLite node based on Calsim II outputs
 - Implemented as soft constraints, CalLite will report shortages in these terms.

