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Fish and Salinity in the San Francisco Estuary

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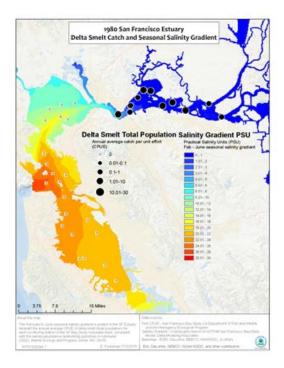
EPA created maps for six fish species that show changes in abundance and distribution as they relate to seasonal changes in the salinity gradient over a 33-year time period. The maps visualize established salinity-abundance relationships and show how distribution has changed over time in the San Francisco Bay Delta Estuary.

The seasonal salinity gradient was simulated by the coarse-grid version of the <u>UnTRIM San</u> <u>Francisco Bay-Delta Model</u> EXIT and fish monitoring data are from the <u>San Francisco Bay</u> <u>Study</u>. EXIT

The maps show that the abundance of a number of fish species is higher when the low salinity zone is within or westward Return to: Technical Support and Regulatory Assistance

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Restore

Community Successes

SF Bay Water Quality Improvement Fund

Tribal Projects

Water Quality Improvement of Suisun Bay consistent with established science.

This work was published in the

journal San Francisco Estuary and Watershed Science (July 2016), "<u>3-D</u> <u>Simulations of the San Francisco Estuary with Subgrid Bathymetry to</u> <u>Explore Long-Term Trends in Salinity Distribution and Fish Abundance</u>." EXIT

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- <u>Delta Smelt.pdf (PDF)</u> (33 pp, 5 MB, July 2015)
 Seasonal salinity gradient and Delta smelt abundance and distribution from 1980-2012
- Longfin Smelt juvenile.pdf

 (PDF) (33 pp, 5 MB, July 2015)
 Seasonal salinity gradient and juvenile
 Longfin smelt abundance and distribution
 from 1980-2012

- Longfin Smelt.pdf (PDF) (33 pp, 5 MB, July 2015) Seasonal salinity gradient and longfin smelt abundance and distribution from 1980-2012
- Pacific Herring.pdf
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Seasonal salinity gradient and Pacific herring abundance and distribution from 1980-2012

• Sacramento Splittail.pdf

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Seasonal salinity gradient and Sacramento splittail abundance and distribution from 1980-2012

- <u>Starry Flounder.pdf</u>
 - (PDF) (33 pp, 5 MB, July 2015)

Seasonal salinity gradient and starry flounder abundance and distribution from 1980-2012

 <u>Striped Bass.pdf (PDF)</u> (33 pp, 5 MB, July 2015)
 Seasonal salinity gradient and striped bass abundance and distribution from 1980-2012

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