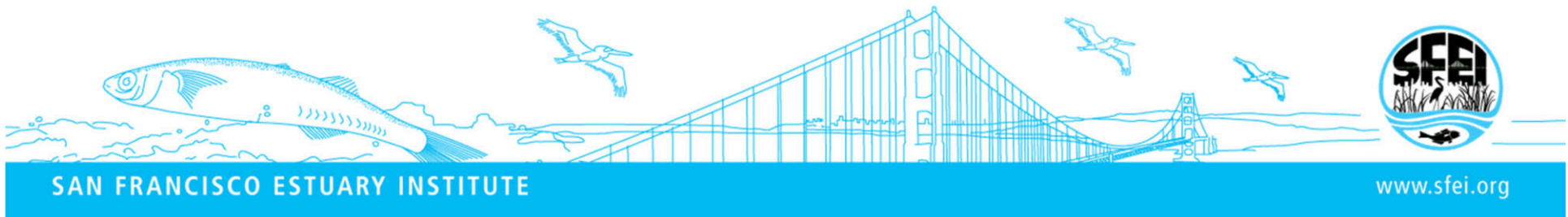
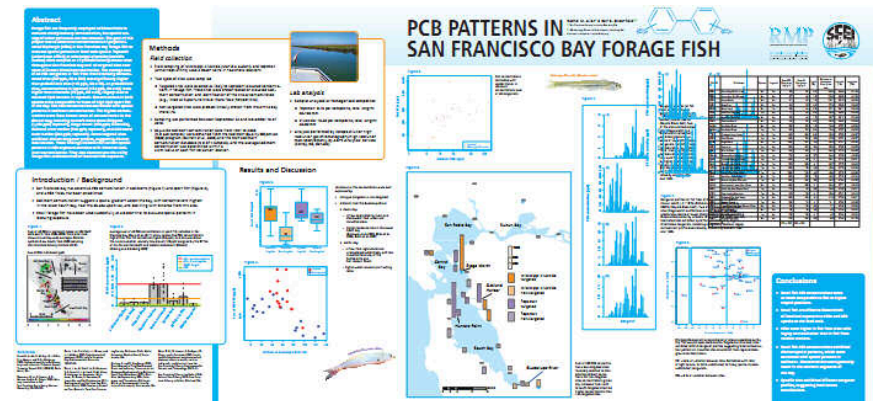
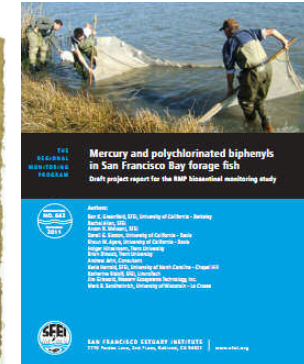


Small Fish Update

- Presentation at RMP Annual Meeting (Ben Greenfield)
- Draft Technical Report (Greenfield et al)
 - Mercury (spatial and temporal trends)
 - PCBs (spatial trends)
- Poster at SETAC North America Meeting (Rachel Allen)
- Manuscript in prep (PCB Patterns in Small Fish)
- 2011 Seasonal sampling



Mercury in Silverside

All years

Spatial gradient -
higher in the South
Bay

2008
2009
2010

0.2 ug/g

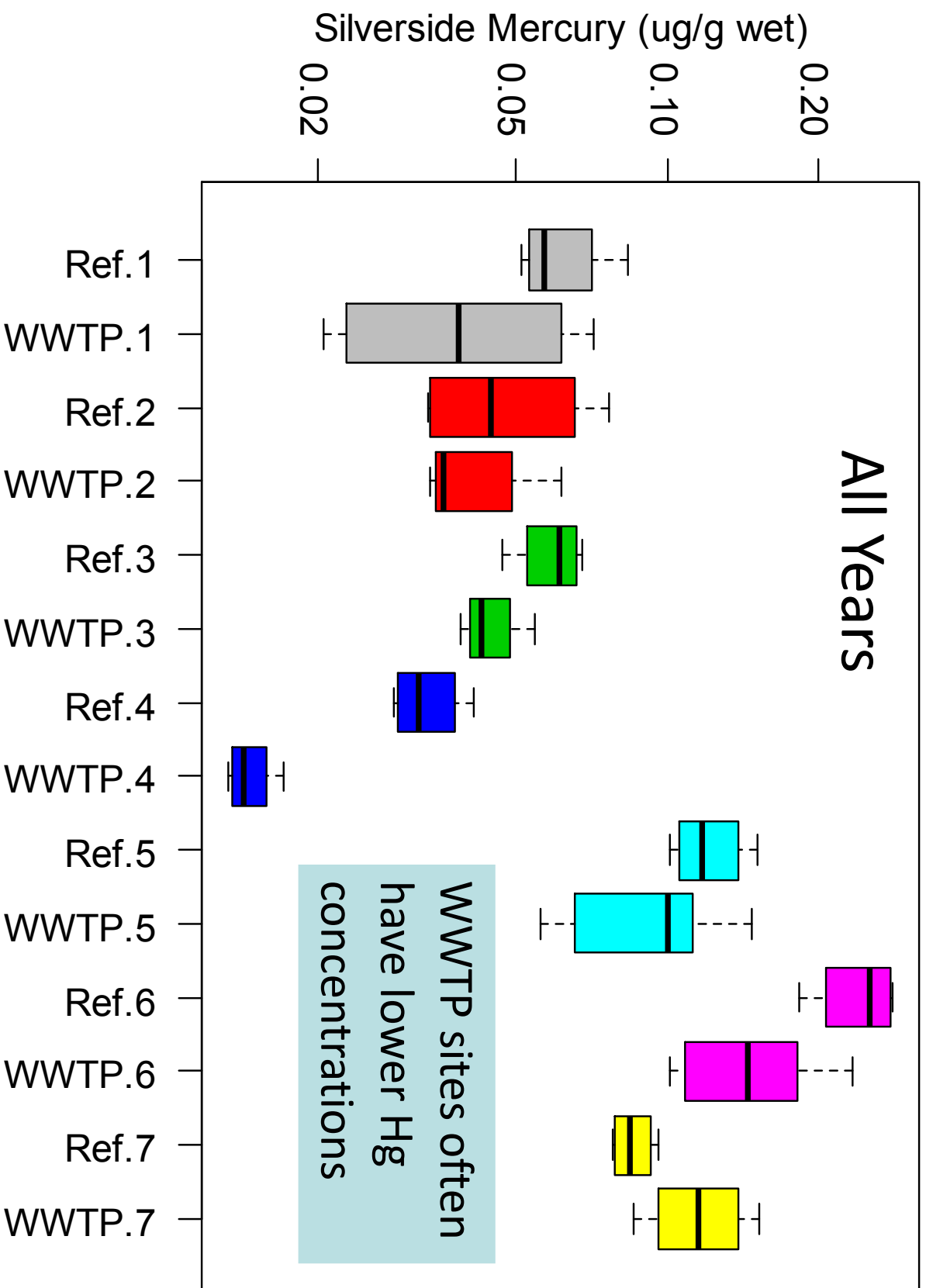


Silverside

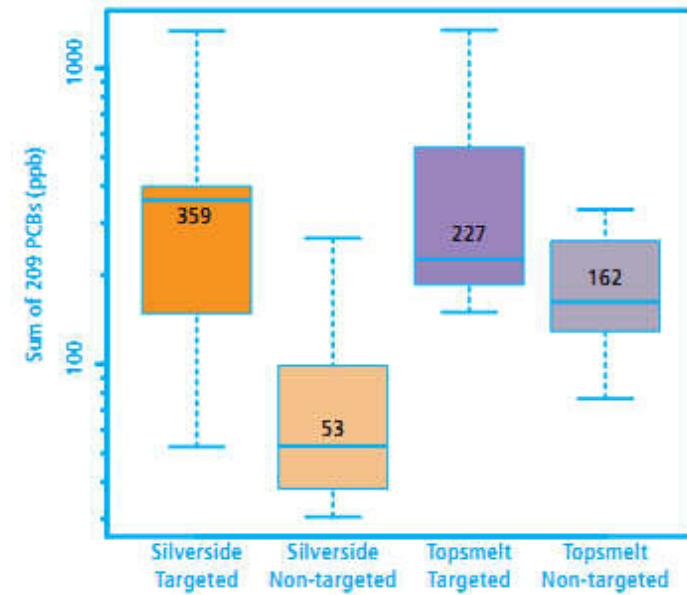
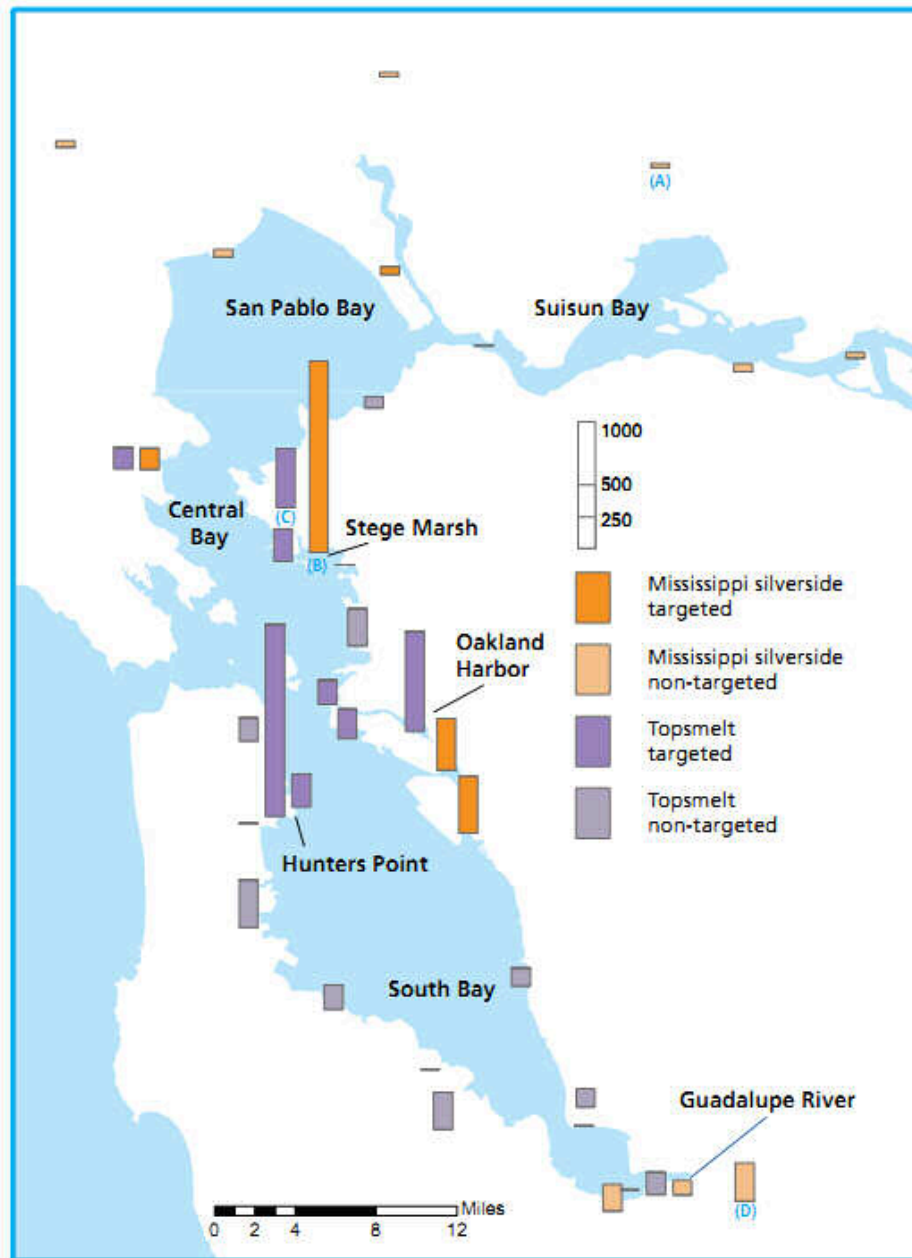
SAN



Waste Water Treatment Plants

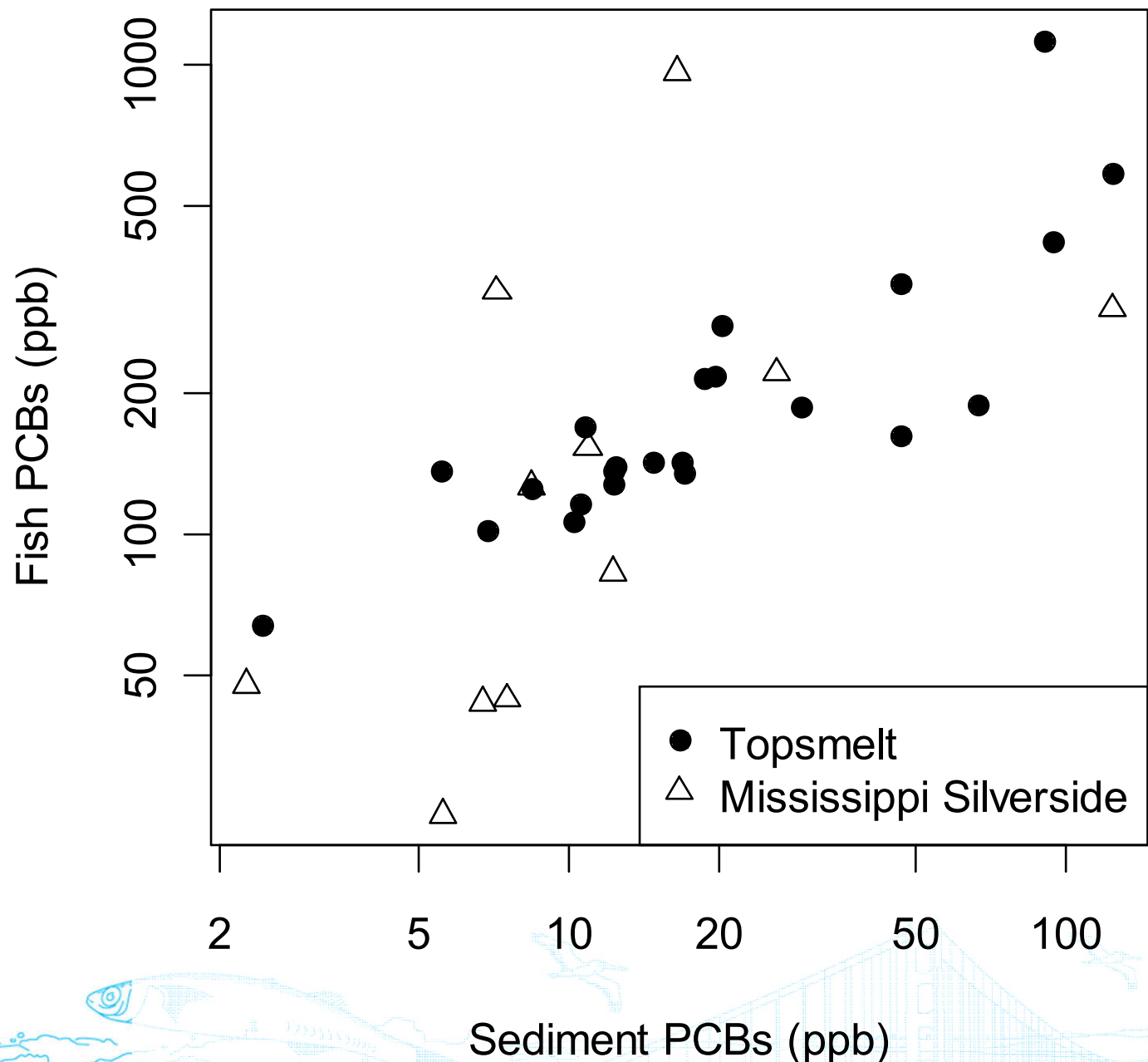


PCBs



Targeted sites higher than random sites

PCBs in fish correlated with PCBs in sediment

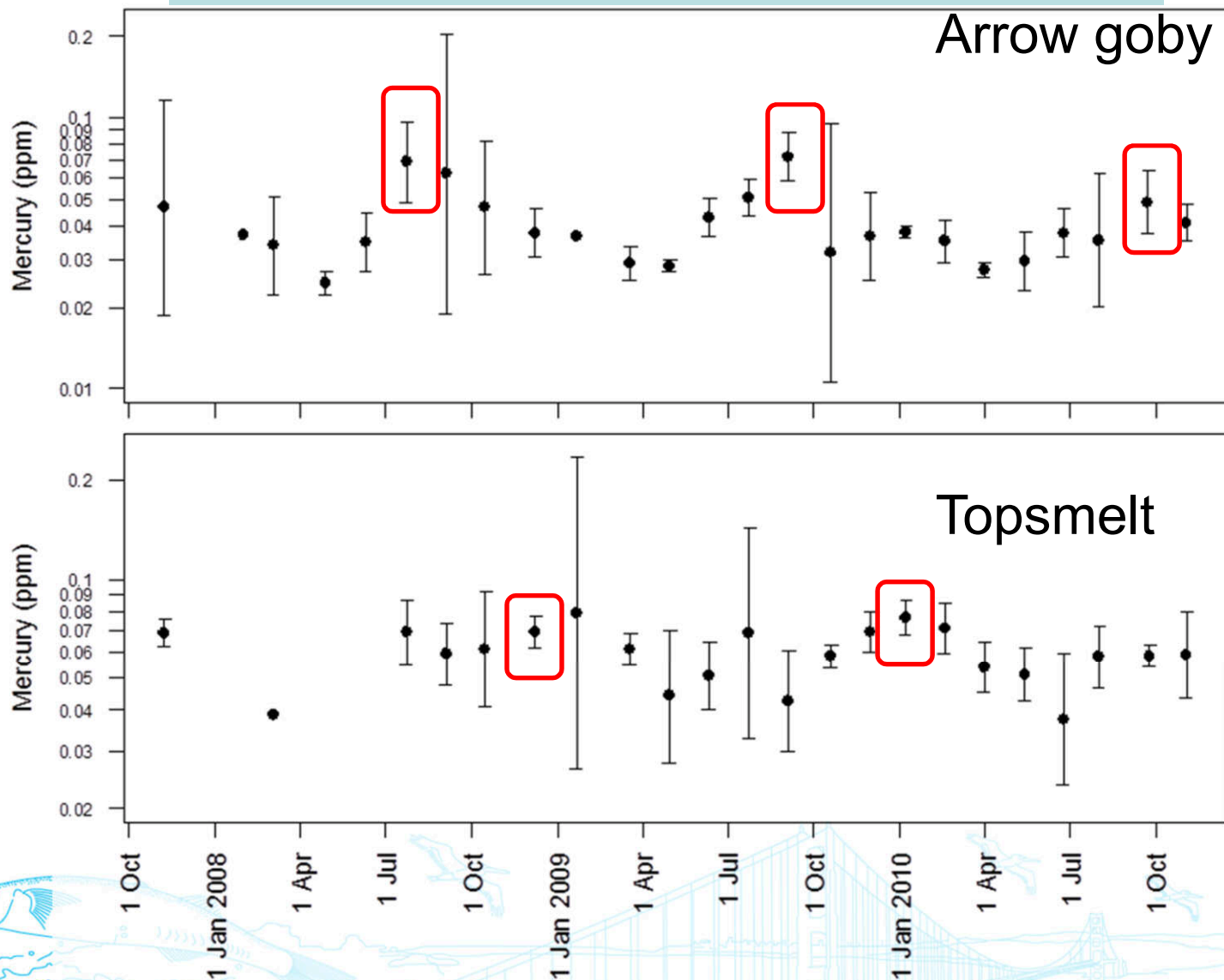


Sediment PCBs (ppb)



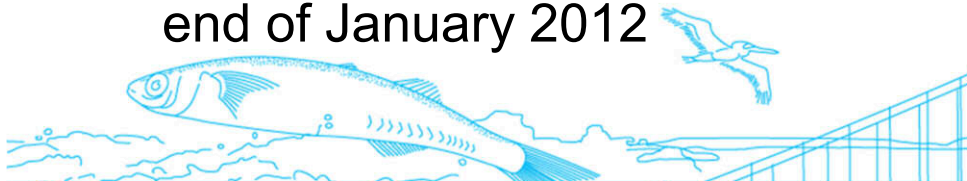
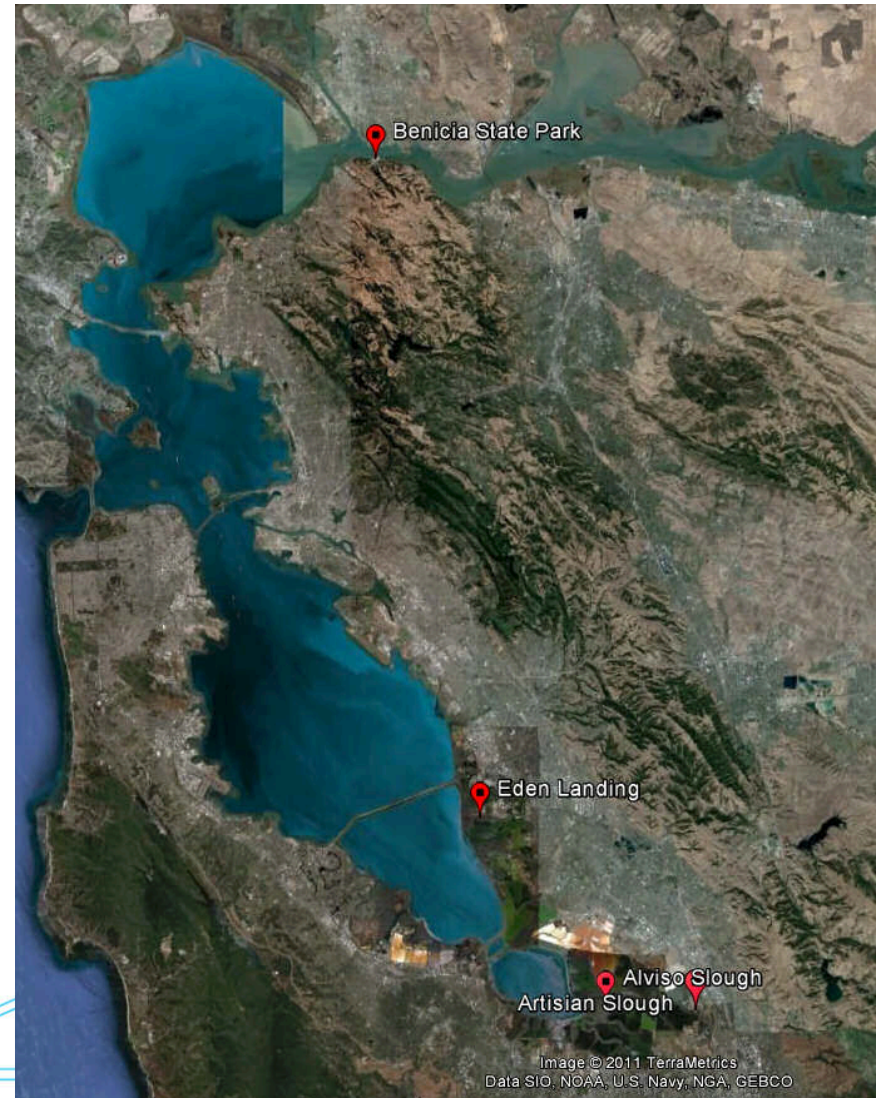
Seasonal Trends (Hg)

Species Specific seasonal variations

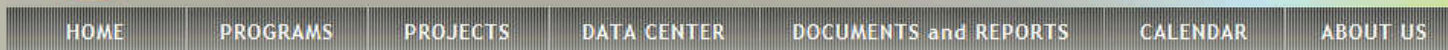


2011 Hg Seasonal Survey

- Four sites
 - Benicia SP, Eden Landing, Alviso Slough, and Artisian Slough
- Sampling successful:
collected in Oct 2010, Jan, May, and July 2011
 - Samples also collected in Apr, Aug, and Oct 2011 at Alviso Slough and Artisian Slough (Leveraging sampling by the South Bay Salt Ponds Project)
- Determining seasonal patterns in MeHg uptake
 - Compare to MLK patterns from 2008-2010 and other locations
- Analyses (Darell Slotton UC Davis) will be completed by end of January 2012



Copper Rolling Averages



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Copper Site Specific Objective 3-year Rolling Averages

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As part of the copper site-specific objective, NPDES dischargers are required to calculate annually the three-year rolling average of dissolved copper concentrations in water in each segment of the Bay, based on RMP data. This table presents the segment average and corresponding trigger levels in the [Basin Plan](#). The average includes data from randomized as well as historical sites in the segments, although it excludes data from the historical reference site outside the Golden Gate.

Bay Segment	Trigger (µg/L)	2008-2010 Rolling Average (µg/L)	Number of Samples Included in Average	Notes
Lower South Bay	4.2	3.44	15	
South Bay	3.6	2.81	12	Historical Station BA30 included
Central Bay	2.2	1.36	12	Historical Station BC10 included
San Pablo Bay	3	1.73	9	
Suisun Bay	2.8	2.16	9	

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