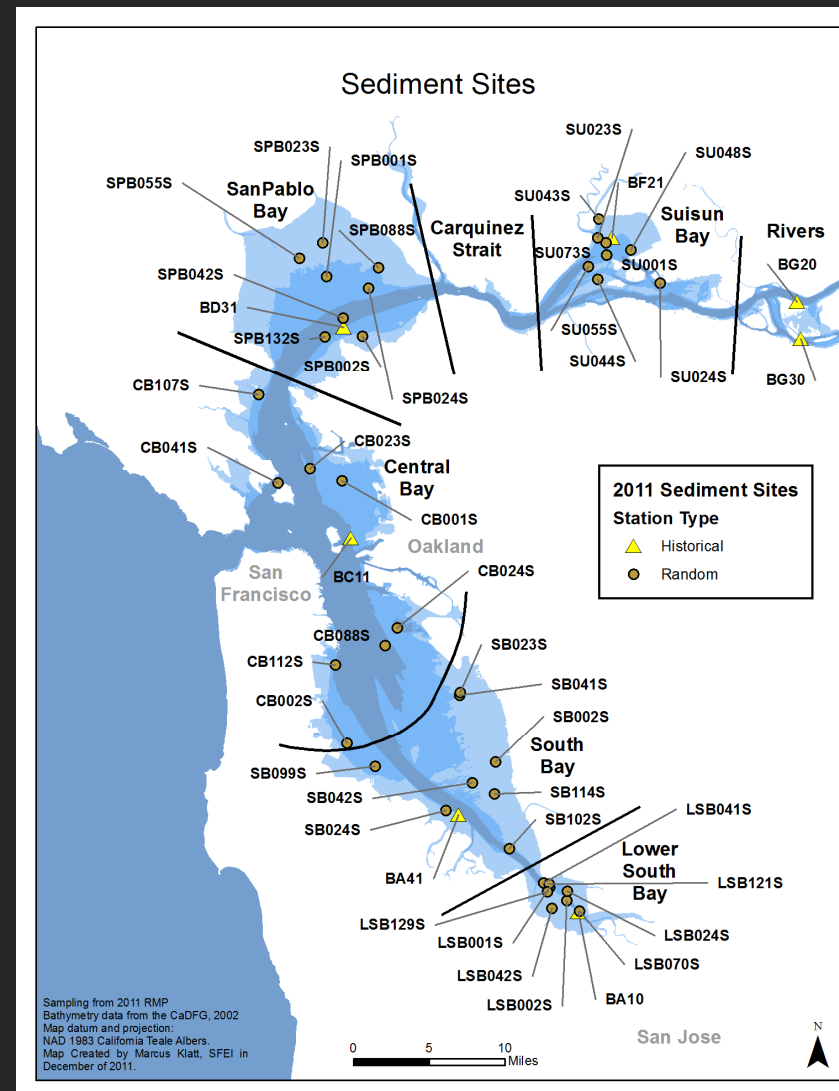


# S&T Sediment Cruise August 2011



- Successful completion
- 47 sites
  - 40 random
    - 8 per segment
  - 7 historic RMP
    - One per segment
    - Rivers (2 sites)



# 2011 Sediment Piggyback Studies

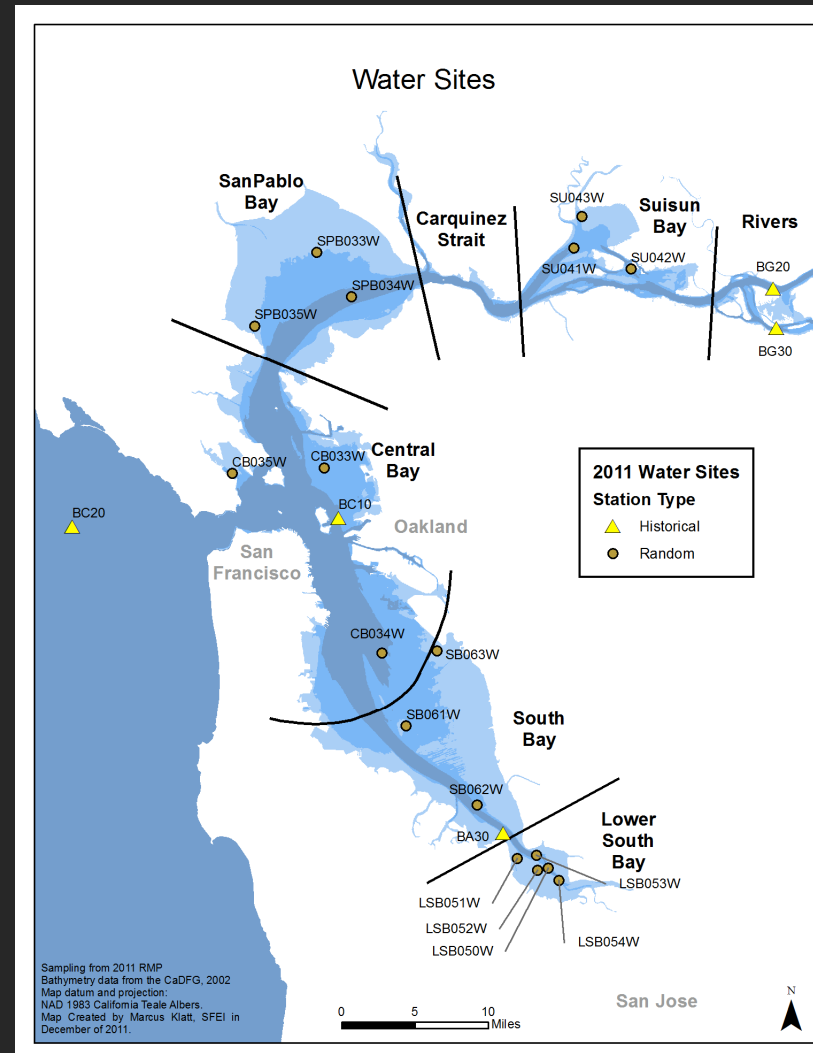


- USGS Mud Provenance Study
  - Quantify sediment transport pathways and mechanisms in the SF Bay system
    - Grainsize, carbon, clay mineralogy, Nd and Sr isotopes
- Duke University Mercury Speciation Study
  - investigate the bioavailability of nanocrystalline HgS compared with dissolved and solid forms in the production of methyl mercury
    - Water and Sediment
- University of Minnesota Brominated Dioxin Study
  - evaluate the potential formation of dioxins from antimicrobials such as triclosan and from the polybrominated flame retardants (PBDEs).
- SCCWRP Genetic Barcoding of Benthos
  - world wide effort to create a database of genetic information for benthic species
  - California will be used to create the reference data set for this project
  - Species from 4 sites in SF Bay will be included

# S&T Water Cruise September 2011



- Successful completion
- 22 sites
  - 17 random
    - 3 sites per segment except LSB (5 sites)
  - 5 historic RMP
    - Rivers (2 sites), GG, Yerba Buena, Dumbarton



# 2011 S&T / USGS Studies



## SSC (Dr. Schoellhamer)

- 6 sites (Alcatraz, Mallard, Benicia, Richmond Bridge, and Dumbarton)

## Basic Water Quality (Dr. Cloern)

- Monthly monitoring along spine
- 39 sites – salinity, temp, DO, SS and phytoplankton
- <http://sfbay.wr.usgs.gov/access/wqdata>





# 2012 S&T Monitoring

## Sediment

- February – 27 sites
  - organics/ inorganics
  - benthos and toxicity

## Bivalves

- 9 estuarine sites, 2 rivers sites
- Deployed in June
- Retrieved in September
  - Organics



# 2012 S&T Monitoring

## Bird eggs

- Feb/March
  - Cormorants
    - 3 sites - Richmond Bridge, Pond AB2, Wheeler Island
    - PCBs, PFCs, PESTS, PBDEs, Se, & Hg
  - Terns
    - 6 sites - ? A2W, AB2, Napa Marsh, A16, Eden Landing and Hayward Shoreline
    - PBDEs, Se, Hg

# 2013



- Water
  - 22 sites (17 random, 5 historic)
  - Inorganics

# 2010 Annual Monitoring Results



- Completed on time
- Summary of 2010 water, sediment and bivalve sampling efforts and program changes
- Available on line: <http://www.sfei.org/rmp/rmp-annual-reports-and-publications>