

Cross-scale Exploration of Stressor-State Correlations

EMAP Estuaries

SF Bay Intensification Project

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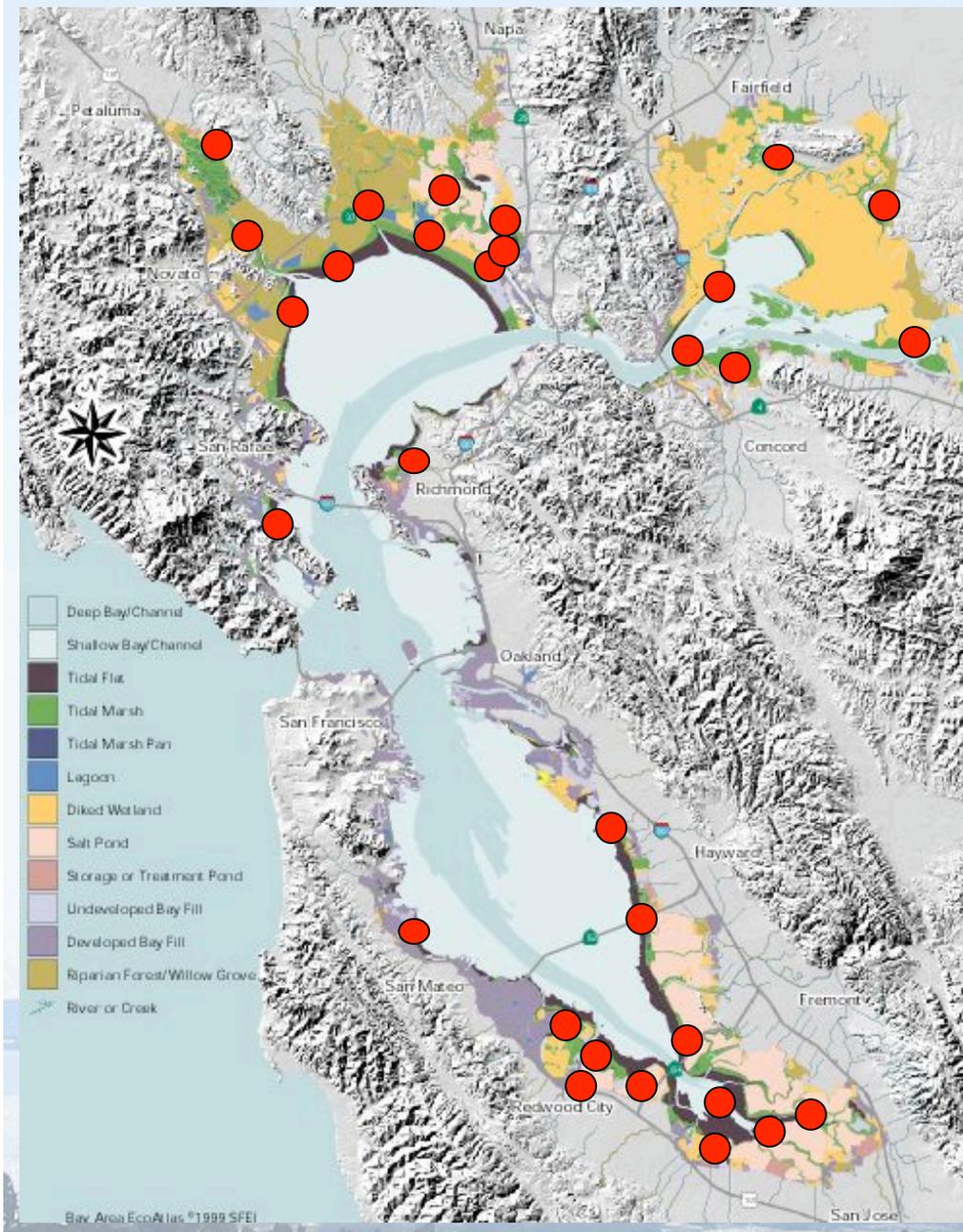
SFEI

Collaborators

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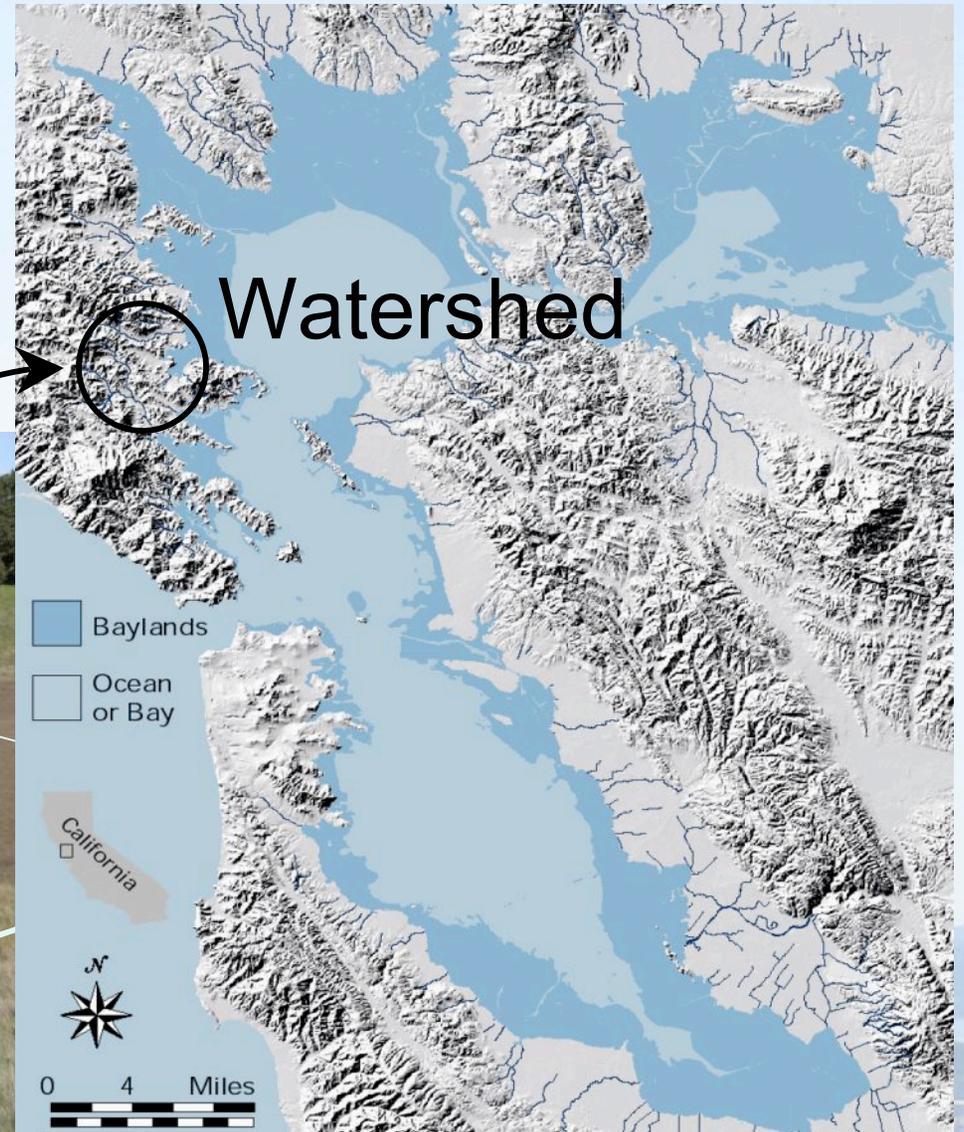
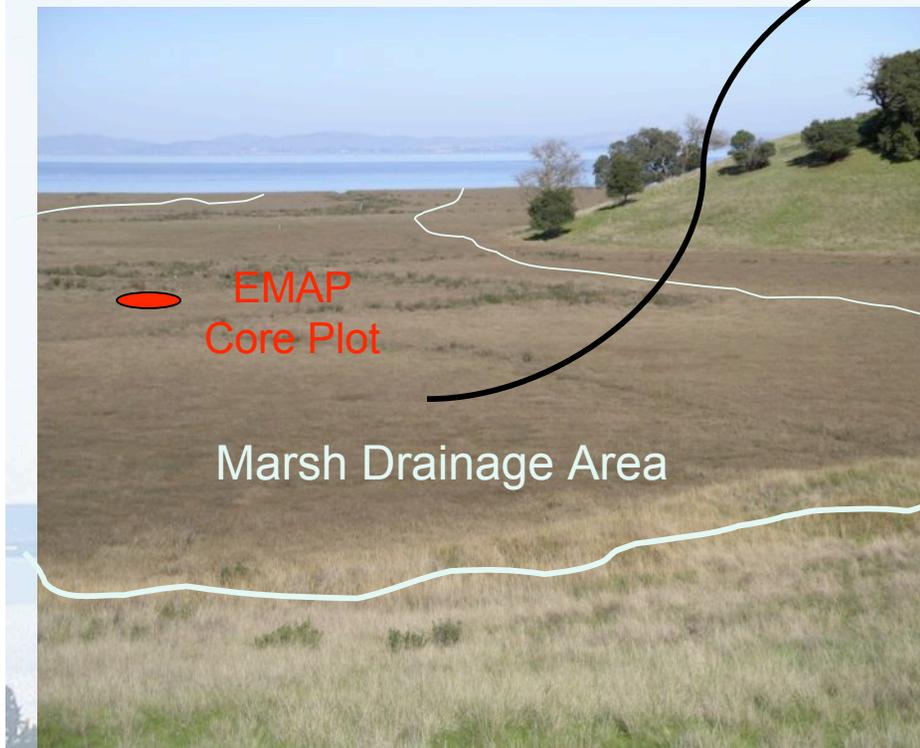


30 randomly chosen
1-m² EMAP Core
intertidal stations



Cross-scale Stressor Analysis

Nested Systems



Core Station Response Data

Metals

Trace Organics

Nutrients

Total Carbon

Benthos

Vegetation



Stressors

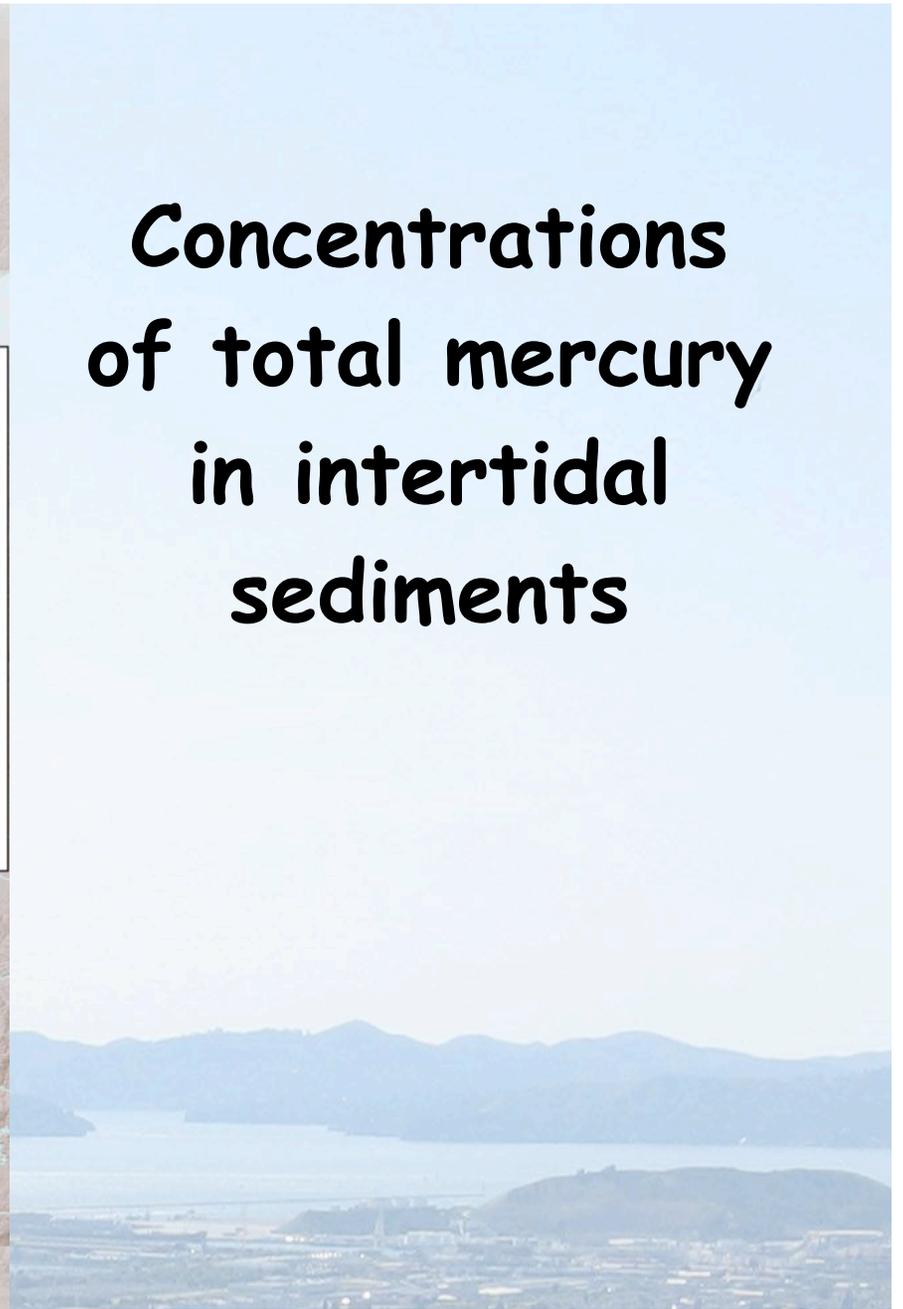
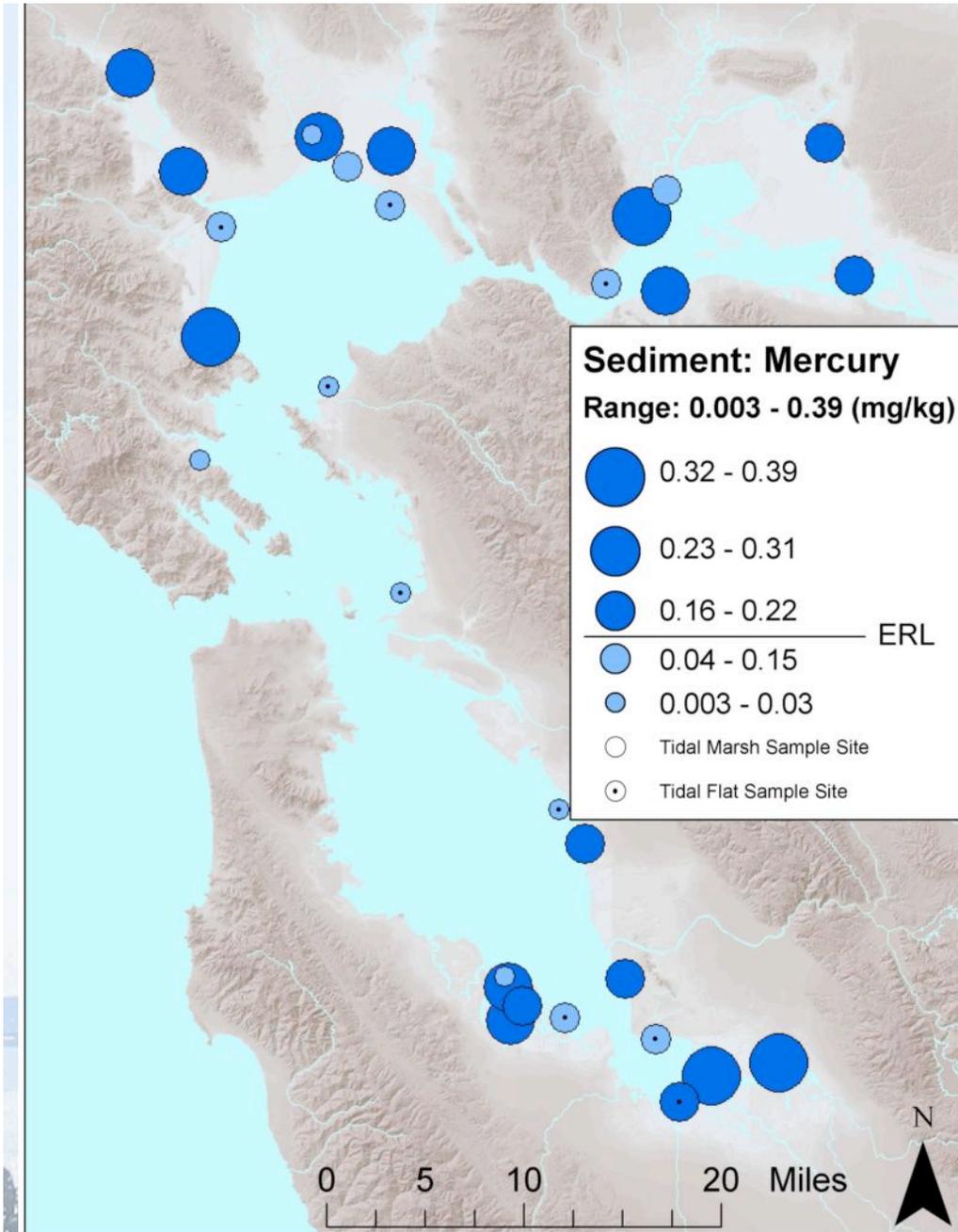
Human demographics

Adjacent land use

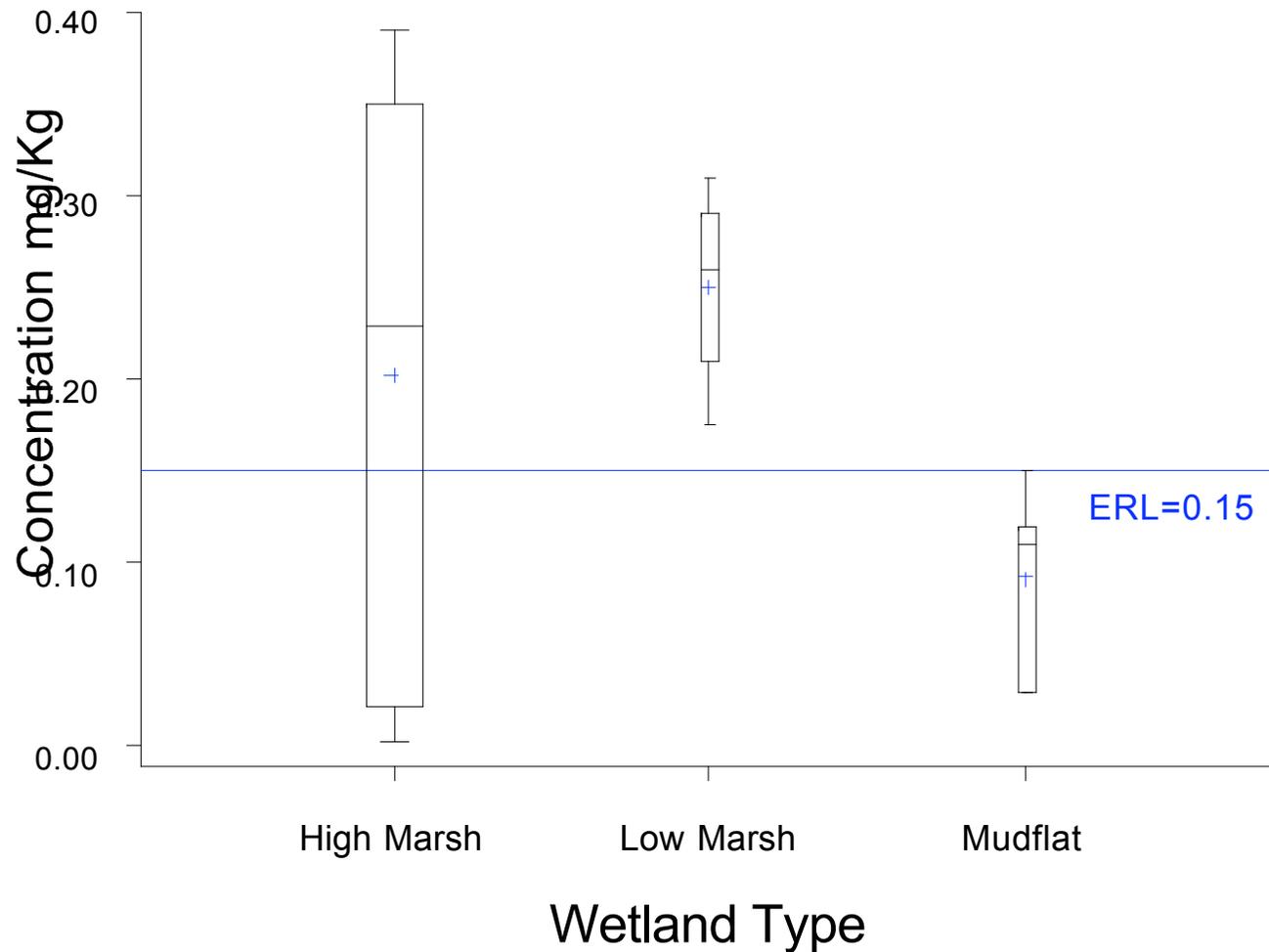
Marsh patch geometry



Concentrations of total mercury in intertidal sediments

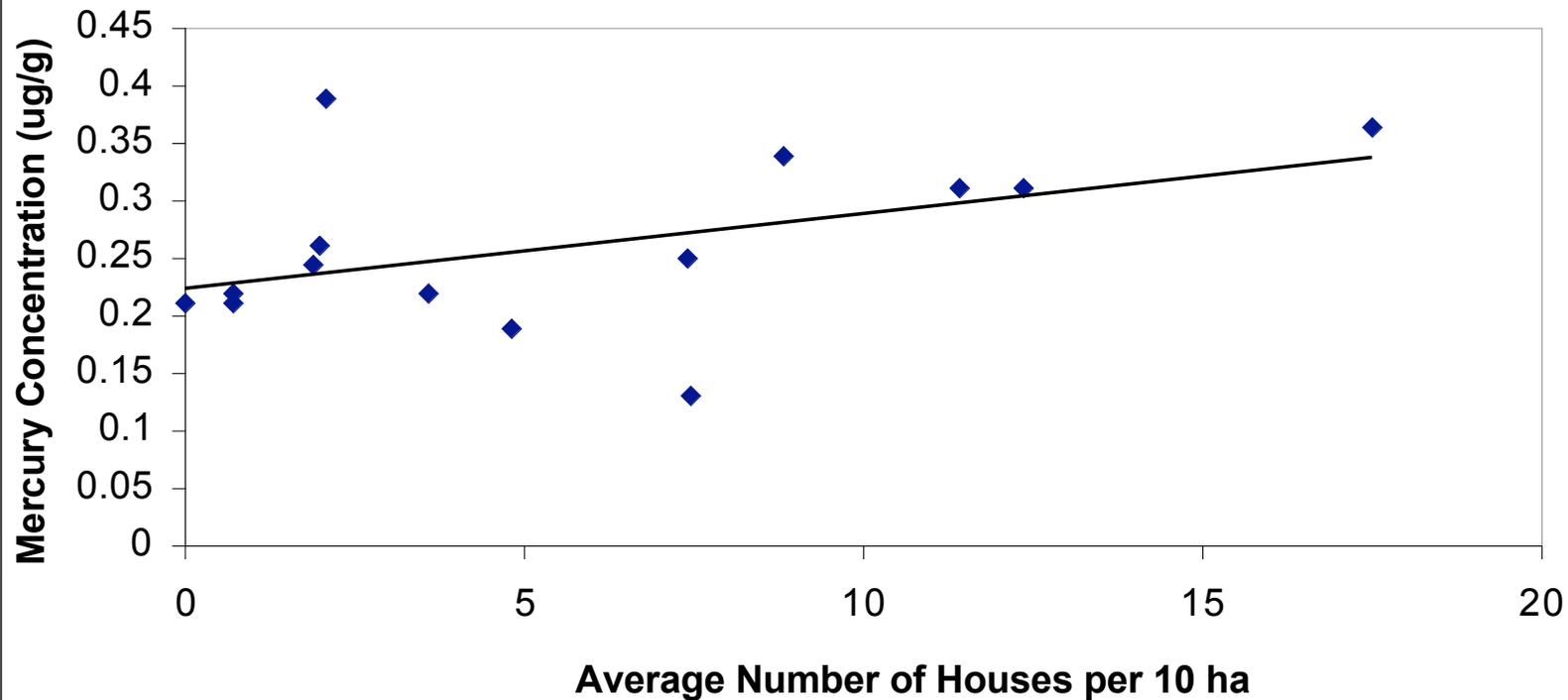


Concentration of Total Mercury in Intertidal Sediments



Stressor Analysis

**Mercury Contamination
Related to Housing Density in the Watershed**



$R^2 = 0.2158$
 $r = .464$
 $p = 0.0942$

