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Casco Bay Estuary Partnership (CBEP)

2016

## Sediment Contamination Study of Casco Bay part 2, Ramboll Environ PowerPoint 2016

Ramboll Environ

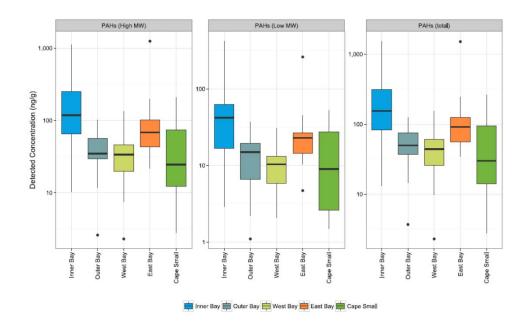
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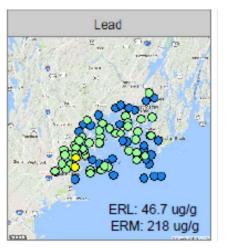
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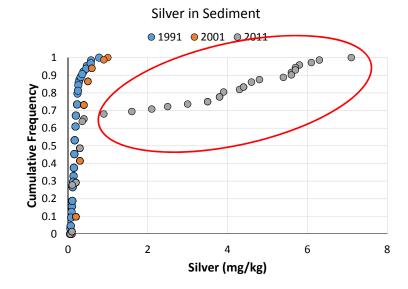
- Integrate data, calculate sums
- Calculate summary statistics (baywide and by region)
  - Focusing on detects
- Plot data (box and whiskers and maps)





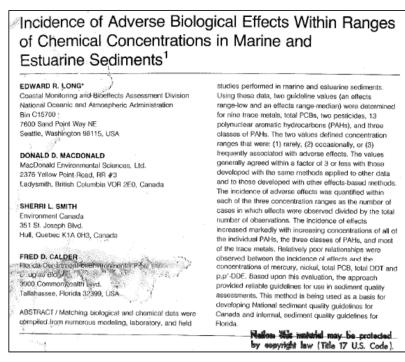


- Integrate data, calculate sums
- Calculate summary statistics (baywide and by region)
  - Focusing on detects
- Plot data (box and whiskers and maps)
- Exploratory analysis (identify data issues)





- Integrate data, calculate sums
- Calculate summary statistics (baywide and by region)
  - Focusing on detects
- Plot data (box and whiskers and maps)
- Exploratory analysis (identify data issues)
- Comparison to screening values



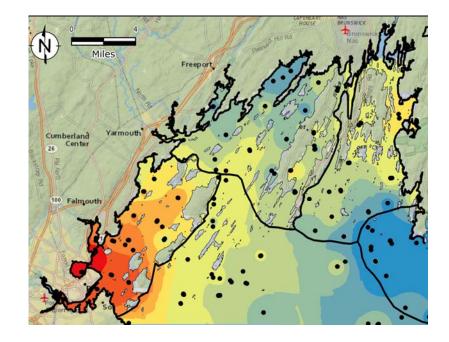
Adverse effects in <u>aquatic organisms</u> (invertebrates and fish)

**Effects Range Low (ERL)**: Concentration at which effects rarely observed

**Effects Range Median (ERM)**: Concentration above which effects are frequently observed

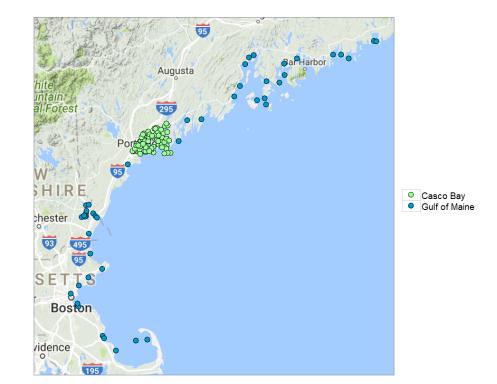


- Integrate data, calculate sums
- Calculate summary statistics (baywide and by region)
  - · Focusing on detects
- Plot data (box and whiskers and maps)
- Exploratory analysis (identify data issues)
- Comparison to screening values
- Statistical analysis (by region and time)
- Geospatial analysis to illustrate notable trends



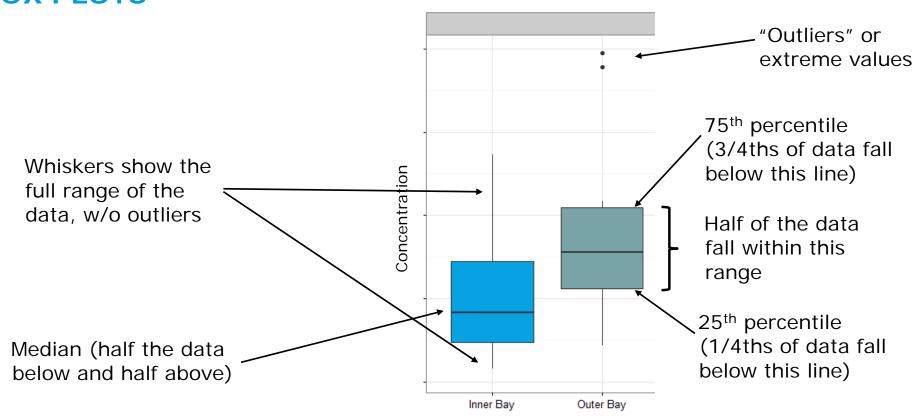


- Integrate data, calculate sums
- Calculate summary statistics (baywide and by region)
  - · Focusing on detects
- Plot data (box and whiskers and maps)
- Exploratory analysis (identify data issues)
- Comparison to screening values
- Statistical analysis (by region and time)
- Geospatial analysis to illustrate notable trends
- Comparison to rest of Gulf of Maine



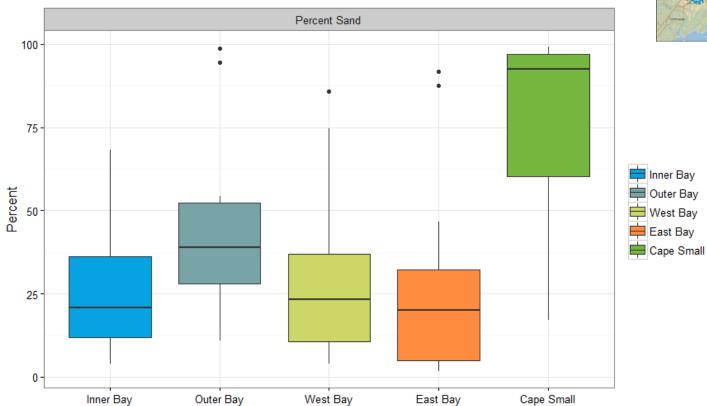


## RESULTS: 2010-2011 DATA BOX PLOTS





# RESULTS: 2010-2011 DATA SEDIMENT GRAIN SIZE

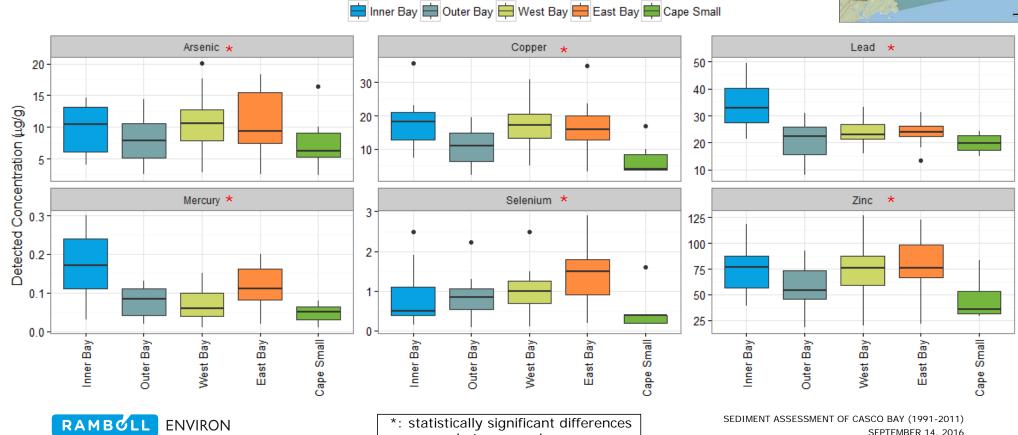




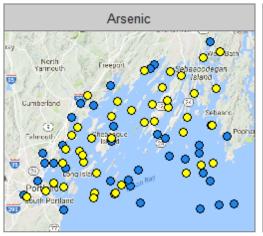
### **RESULTS: 2010-2011 DATA EXAMPLE METALS**

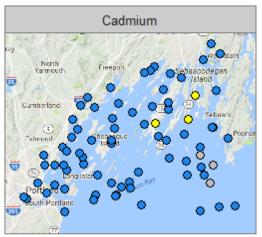


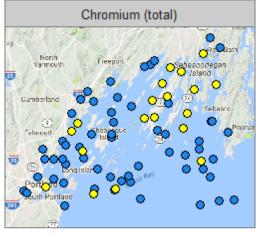
SEPTEMBER 14, 2016

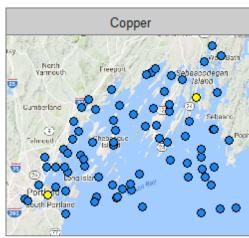


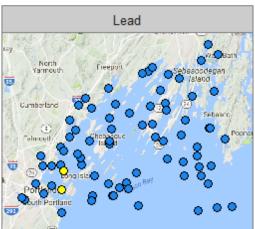
between regions

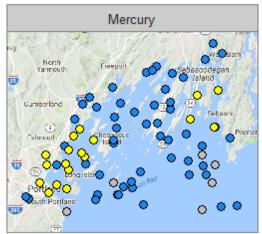


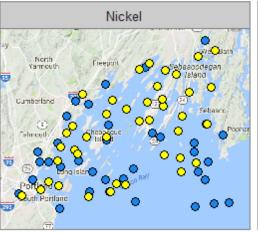


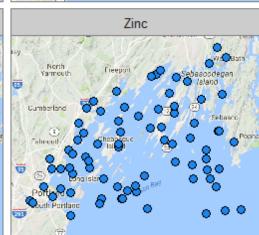














Above ERM

Between ERM and ERL

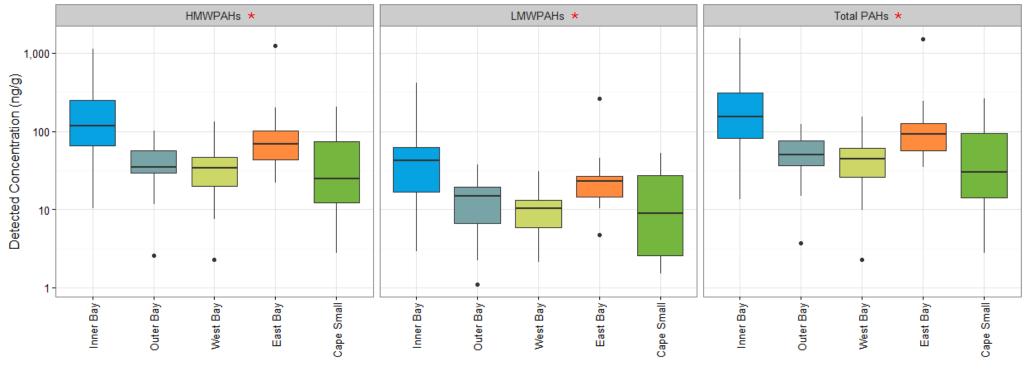
Below ERL

Not Detected

# RESULTS: 2010-2011 DATA PAHS



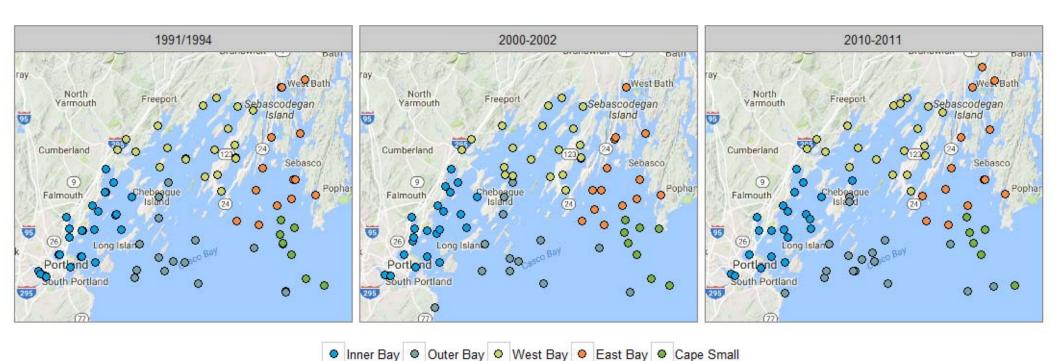




RAMBOLL ENVIRON

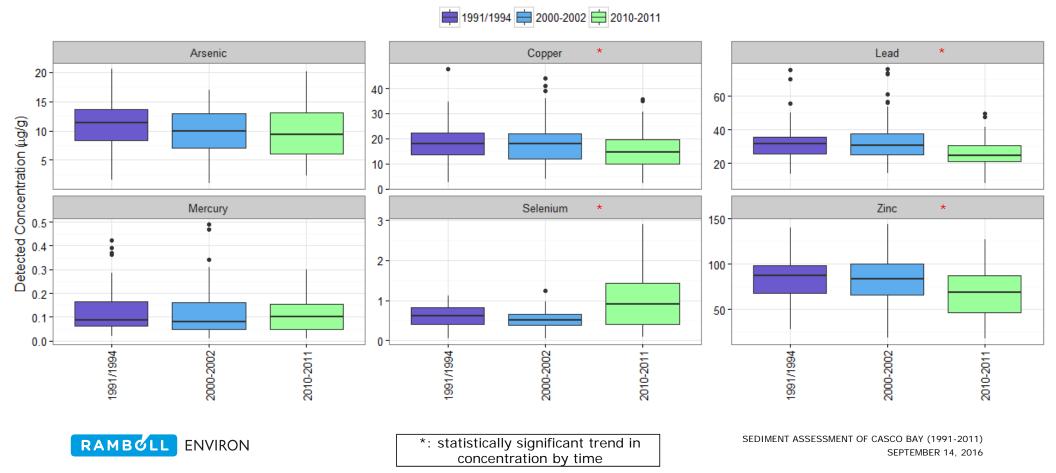
\*: statistically significant differences between regions

### **RESULTS: 1991-2011 CASCO BAY**

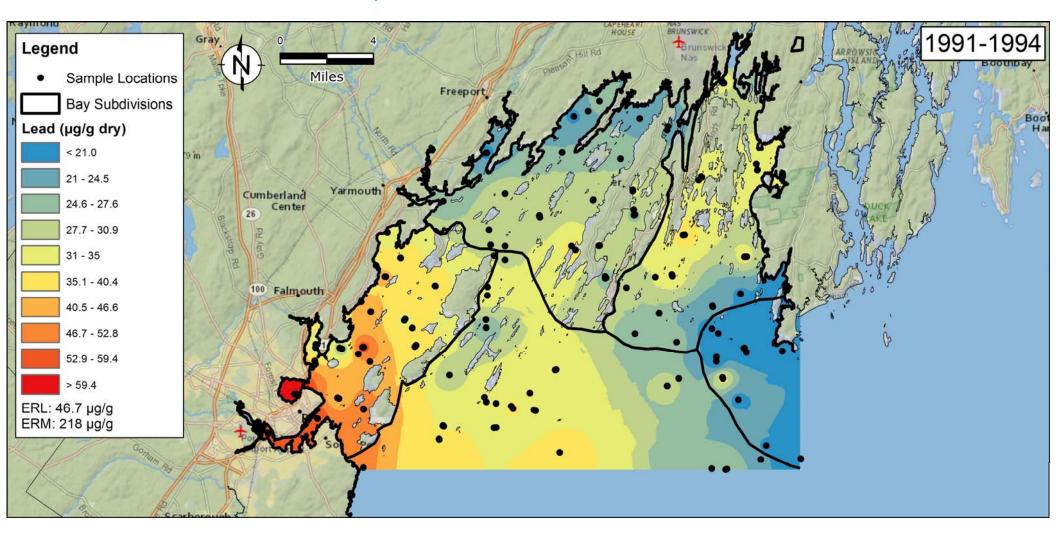




# RESULTS: 1991-2011 CASCO BAY METALS



### **LEAD IN CASCO BAY, 1991-2011**



### **LEAD IN CASCO BAY, 1991-2011**

