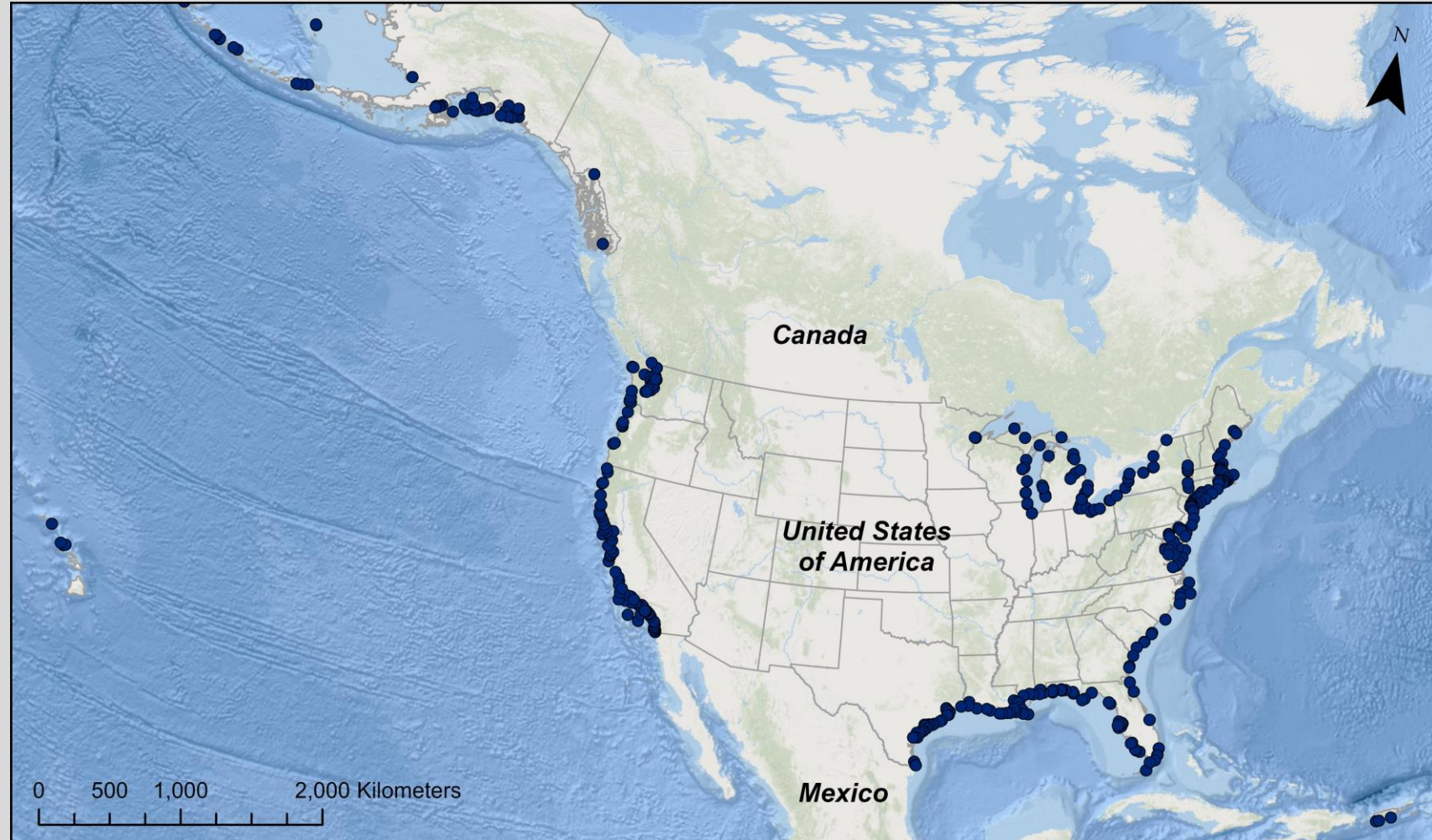# NOAA Mussel Watch
&
Coastal Pollution
Data Explorer

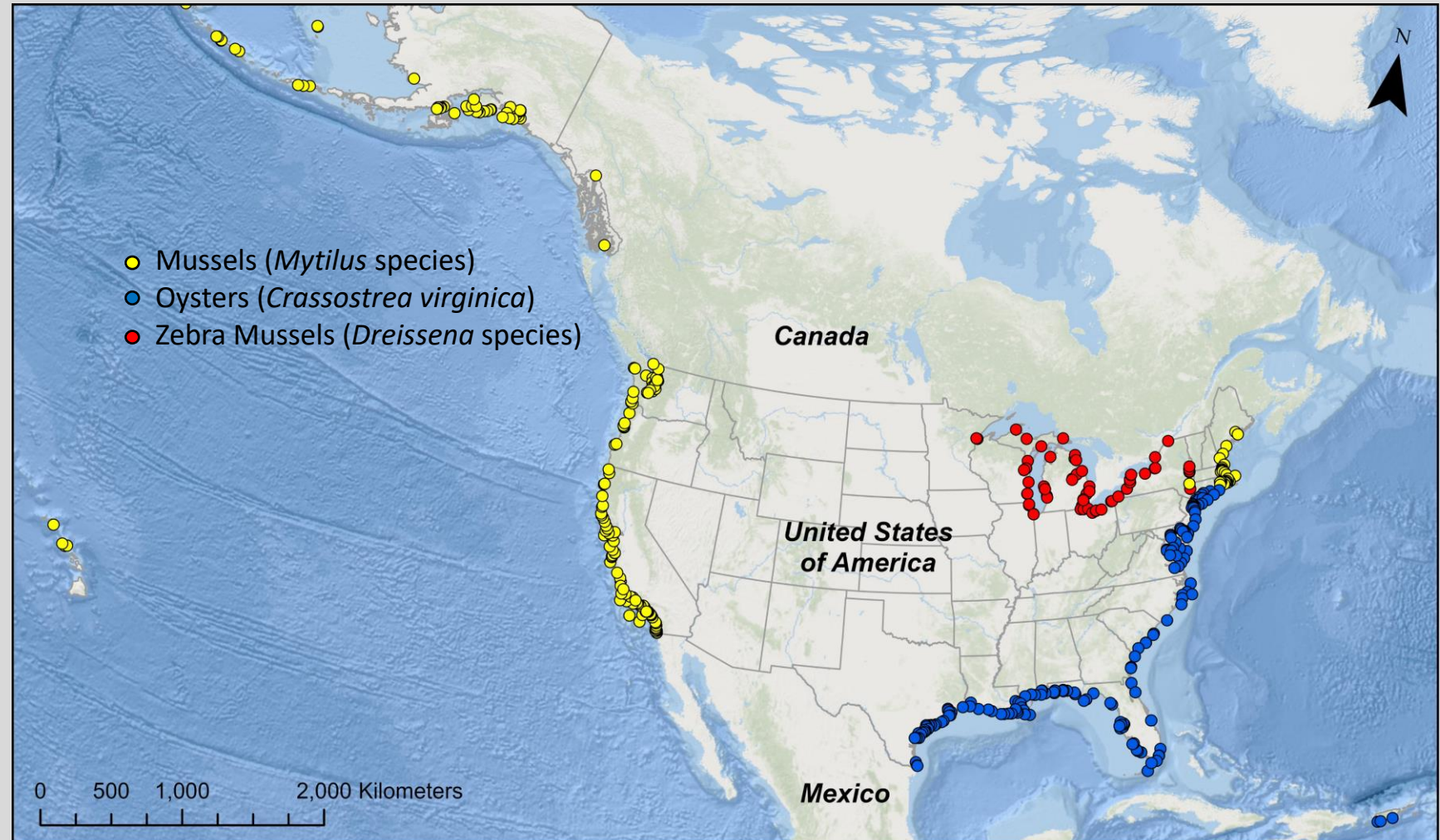Arina Morozova

Lauren Swam

Scope

- Began 1986

- 300+ sites

- Contiguous US and territories
  - Puerto Rico
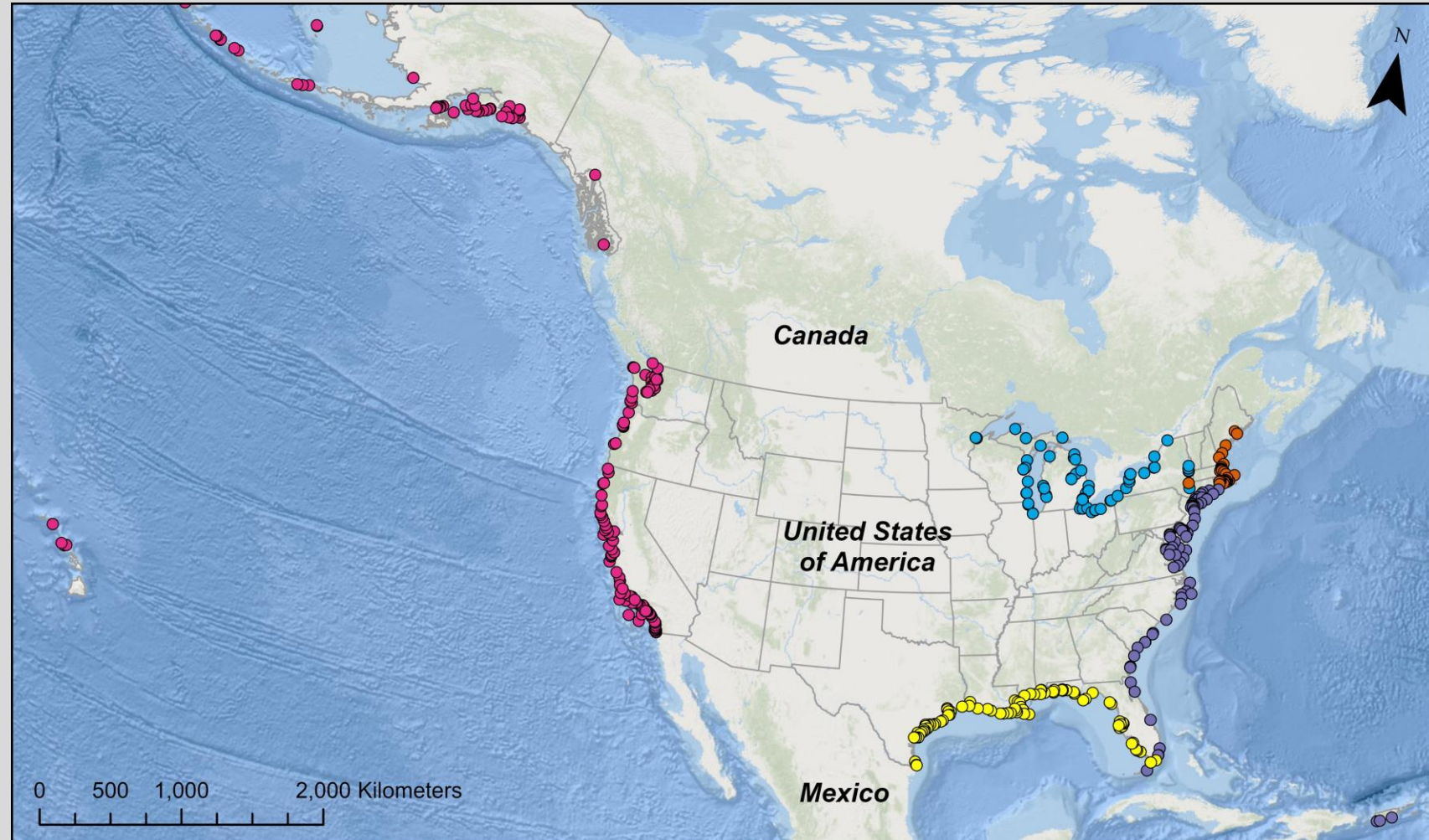 - American Samoa
  - Guam
  - US Virgin Islands

Methods

- Sediment and Bivalve monitoring

  - Bivalve species is region-dependent

  - All matrices and species analyzed separately

- Mussels (*Mytilus* species)
- Oysters (*Crassostrea virginica*)
- Zebra Mussels (*Dreissena* species)

Canada

United States of America

Mexico

0   500   1,000   2,000 Kilometers

Sampling Frequency

- 5-year rotational regional monitoring

- 2023: Gulf of Mexico

- Mid-Atlantic last sampled: 2021

Contaminants

Legacy Contaminants

300+ individual compounds

1986 - present

Trace Metals	Endosulfans
Butyltins	HCHs
Chlordanes	Mirex
Chlorobenzenes	PAHs
DDTs	PCBs
Dieldrins	

Contaminants of Emerging Concern

280+ individual compounds

2009 - present

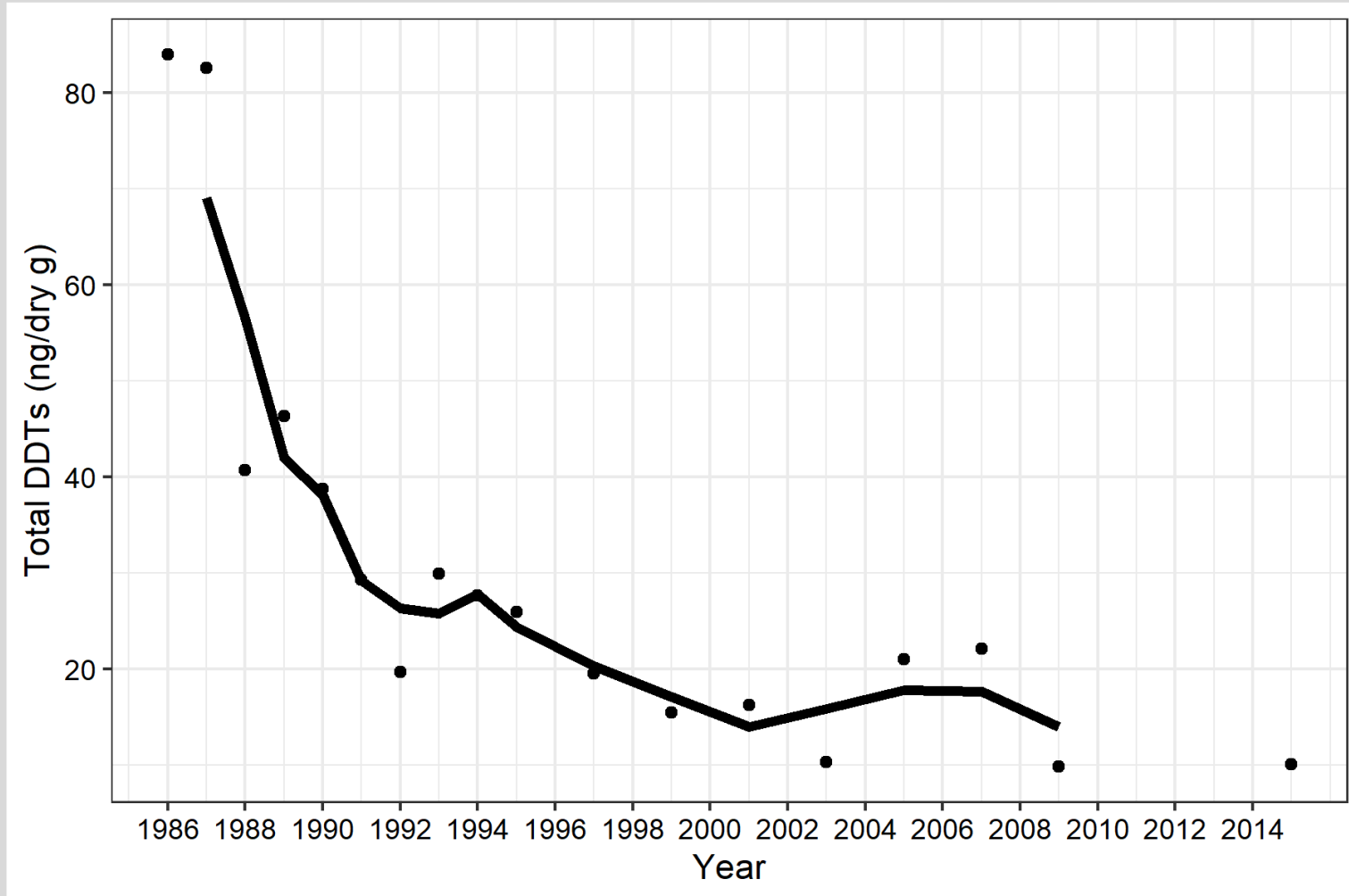Alkylphenols

Flame Retardants

Current Use Pesticides

PBDEs/PBBs

PFAS

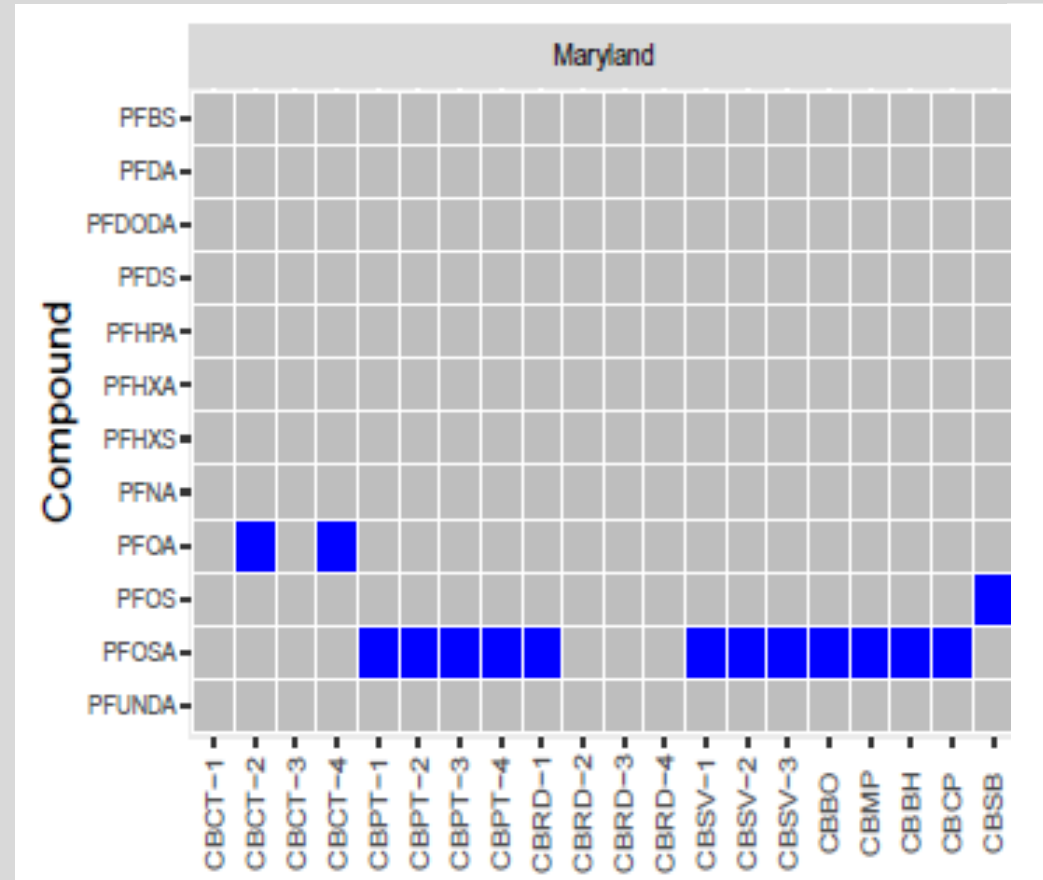Pharmaceutical & Personal Care Products

Data Reporting - Legacy

- Data reported as sums

- Trends play an important role

- Robust dataset allows contextualization

- Some regulatory values exist

Data Reporting - CECs

- Data reported as individual contaminants

- Low frequencies

- Not enough data to support trend analysis

- Few regulatory values exist

Current Reporting

- Legacy contaminants technical memorandum

- CEC technical memorandum

- Trace Metals technical memorandum
  - Sometimes combined with Legacy contaminants

Coastal Pollution Data Explorer

About interactive web-based interface where users explore spatial and temporal trends of chemical, physical, biological, and toxicological data.

Goal Allow users compare, analyze, graph, and download NCCOS data

Data
- Mussel Watch data & Supplementary data
- Tool includes Legacy Contaminants data (1986-2012)
- Will add Contaminates of Emerging concern & Trace metals, post 2012 data

Project Time span Project began in October 2022 and is projected to be completed in September 2025.

CPDE Demo

Feedback

- Would this application and data will be helpful to your work?

- Do you find this application easy to use?

- What did you like about this tool?

- What did you not like about this tool?

- Do you have any additional comments or questions?