

Note on Data

Team Members:

David Alejandro Dominguez Morales (student # 29092830)

Andrea Jackman (student # 44926970)

Data:

[Oceanographic data collected from chemical analyses of seawater samples \(1949 - present\)](#)

We will be using data collected by the California Cooperative Oceanic Fishing Investigations (CalCOFI) between 1949 and the present day. This data contains measurements of the populations of commercially significant larval and adult fish, plankton biomass, and a variety of chemical, physical, and environmental measurements from 50,000+ sampling stations along the coast of California and contains diverse measurements such as:

- **Chemical Properties:** Concentrations of nutrients like phosphate (PO₄), nitrate (NO₃), silicate (SiO₃), dissolved oxygen levels (O₂), and chlorophyll content (ChlorA).
- **Physical Properties:** Water temperature (T_degC), salinity (Salnty), and water depth (Depthm).
- **Environmental Conditions:** Wind speed (Wind_Spd), wave height (Wave_Ht), and direction.

We plan to investigate how the climatic cycles along the coast of California impact the spatiotemporal population dynamics of plankton.