

Rescuing CalCOFI Monterey Bay, 1951 - 1974

AKA, the 23-year CalCOFI time-series you've probably never heard of

TL;DR Decades of temperature, salinity & plankton data will be available soon!



The Hopkins Marine Station CalCOFI Program & Dataset

Sampling Program

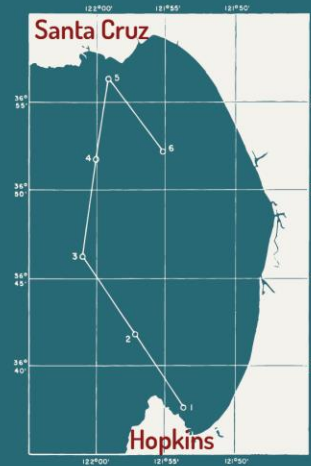
March 1951 - June 1974

Weekly sampling at 6 stations

R/V Tague & R/V Proteus



Sampling locations



Observational Data

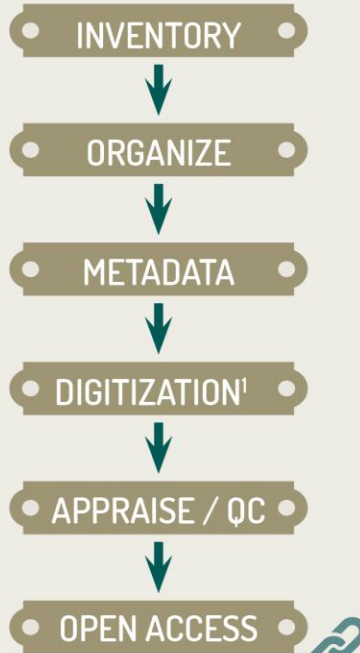
Salinity, SiO₂, PO₄

Meteorological

Phytoplankton & Zooplankton

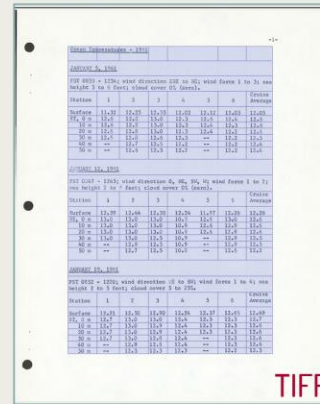
Marine Mammals & Fish

Curation Process

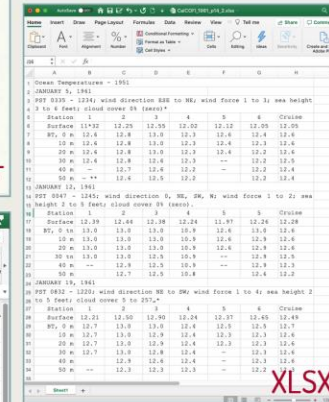


Hydrobiological Survey Field Notes
Annual Reports | Quarterly Reports
Zooplankton Data | Phytoplankton Data

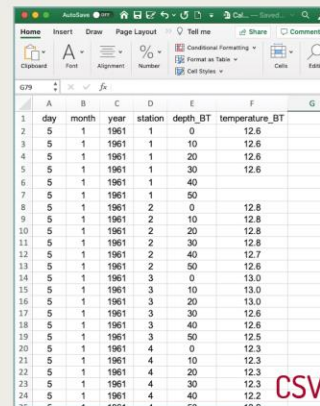
Data Extraction: OCR & Crowdsourcing



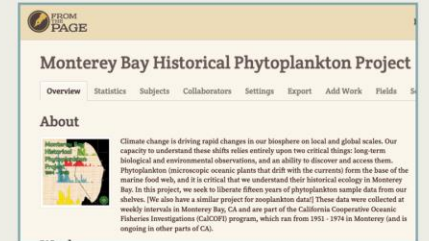
ABBYY FineReader² to recognize text & numbers
Export to spreadsheet



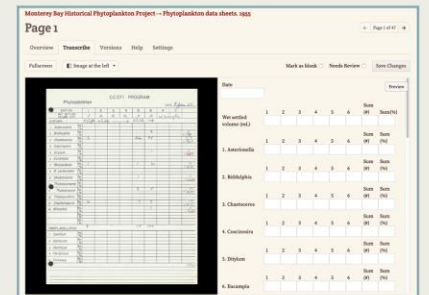
QA/QC data
Transform to Tidy column format³



From the Page crowdsourcing platform



Handwritten data = human transcription⁴
Phytoplankton Counts: 15 years, weekly
Zooplankton Counts: 9 years, weekly



CSV

¹ Stanford Libraries Digital Production Group ² Melissa Tabbarah ³ Christine Xue, Dylan Alcazar ⁴ Dozens of volunteers

