

# Ocean Acidification Monitoring

DR. PIERRE PEPIN • DR. SIMONE ALIN  
February 19, 2015

ocean acidification  
COLLABORATION



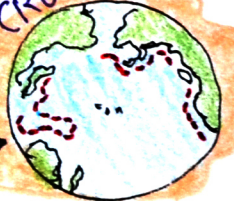
US Focus

on monitoring, research into ocean acidification

Department of Fisheries & Oceans  
Nation-Wide ocean monitoring



OBSERVATION CRUISES



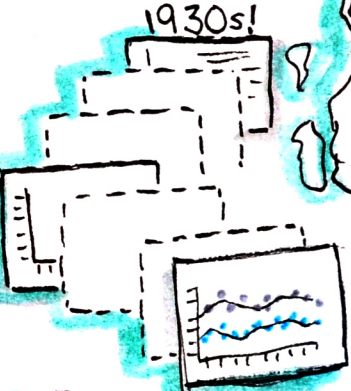
Some places only visited every 3rd year!

- MONITORING
- SYNTHESIS
- FORECASTING
- ASSESSMENT
- MANAGE DATA
- ENGAGEMENT
- IMPROVE TECH! METHODS!

GOAL: 20 GLOBAL monitoring stations

GOAL: 26 in the U.S.

Have to do Averages based on what we have in some coastal areas



RESOURCES AND FUNDING is needed!



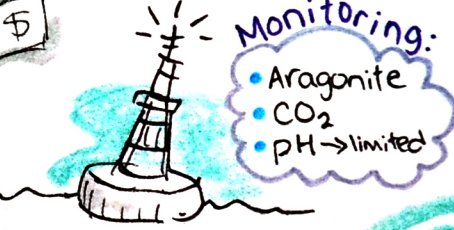
Ship-time for observations are limited



Takes time to set up ship systems!

Need RESOURCES to expand Acidification monitoring!

There are GAPS in observations.



Observations of multiple locations, at different times  
Observations over many years

Partner with Hatcheries & Fisheries...  
share data!

...and how to gather data from citizen groups!



but acidification is tricky to monitor!

Expand to GREAT LAKES & RIVERS?

PUBLIC EDUCATION & ENGAGEMENT



Identify priority areas for monitoring!

Observations of St. Lawrence and river run-offs

Arctic

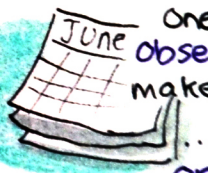
is acidifying faster than other oceans!

Limited knowledge of variations in arctic pH: lets PRIORITIZE monitoring locations!

it can be tricky to disseminate the DFO data due to volume



One-time observations make it Difficult... need to have on-going OBSERVATIONS



2020 2018 2016 2015

RESULTS IN QUALITY RESEARCH