PacIOOS Voyager: Enhancing Decision-Making for Stakeholders in the Pacific Islands

DBCP Workshop | June 10/11, 2021

Jim Potemra, Data Management Lead

U.S. INTEGRATED OCEAN OBSERVING SYSTEM
CERTIFIED
REGIONAL ASSOCIATION

PacIOOS
PACIFIC ISLANDS OCEAN OBSERVING SYSTEM

PacIOOS Region

PacIOOS
PACIFIC ISLANDS OCEAN OBSERVING SYSTEM

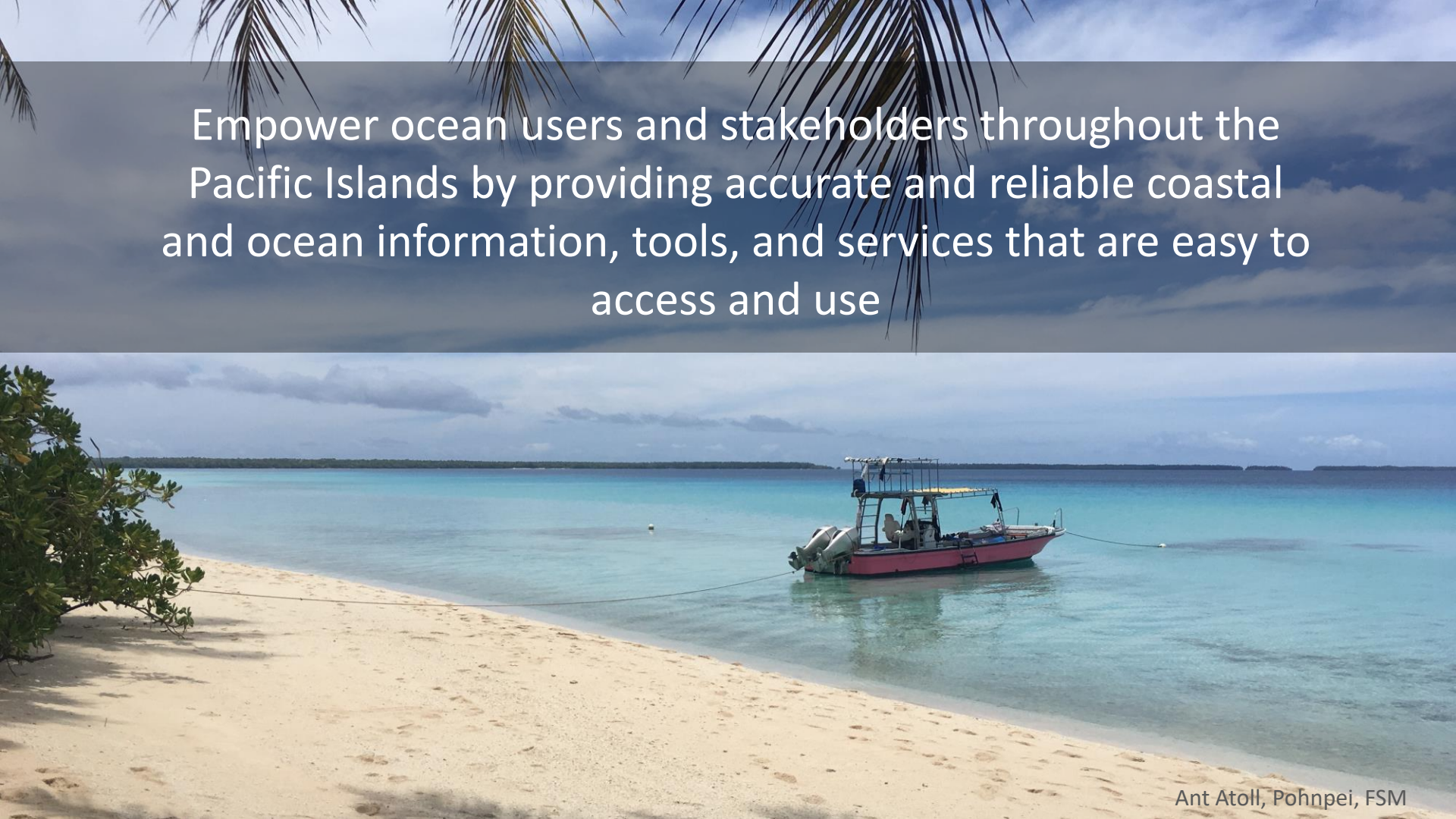
IOOS
Integrated Ocean Observing System

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY
UNIVERSITY OF HAWAI'I AT MĀNOA

UNIVERSITY OF HAWAI'I
UA MAU KE EA O KA 'ĀINA I KA PONO

Empower ocean users and stakeholders throughout the Pacific Islands by providing accurate and reliable coastal and ocean information, tools, and services that are easy to access and use



Ant Atoll, Pohnpei, FSM

DATA MANAGEMENT AND VISUALIZATION

PacIOOS Data Management

Background

- Data management in PacIOOS focuses on providing data to users via “standard services”
- Visualization/access tools
- Reformatting, QA/QC, metadata inclusion, archiving (when appropriate)

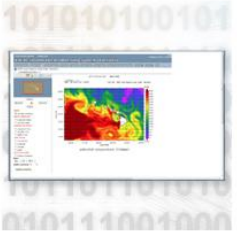
PacIOOS Data Servers

Overview

THREDDS

Access data via OPeNDAP, NetCDF Subset Service, Web Map Service (WMS), Sensor Observation Service (SOS), and other web services.

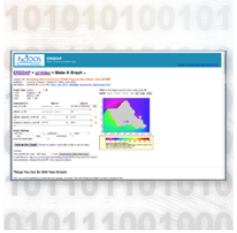
See More >



LAS

Generate custom maps and plots of gridded time-series data and other rasters.

See More >



ERDDAP

Access data in a wide variety of output formats including plain text, HTML, JSON, MATLAB, and NetCDF.
Generate basic maps and plots. Simple to use.

See More >

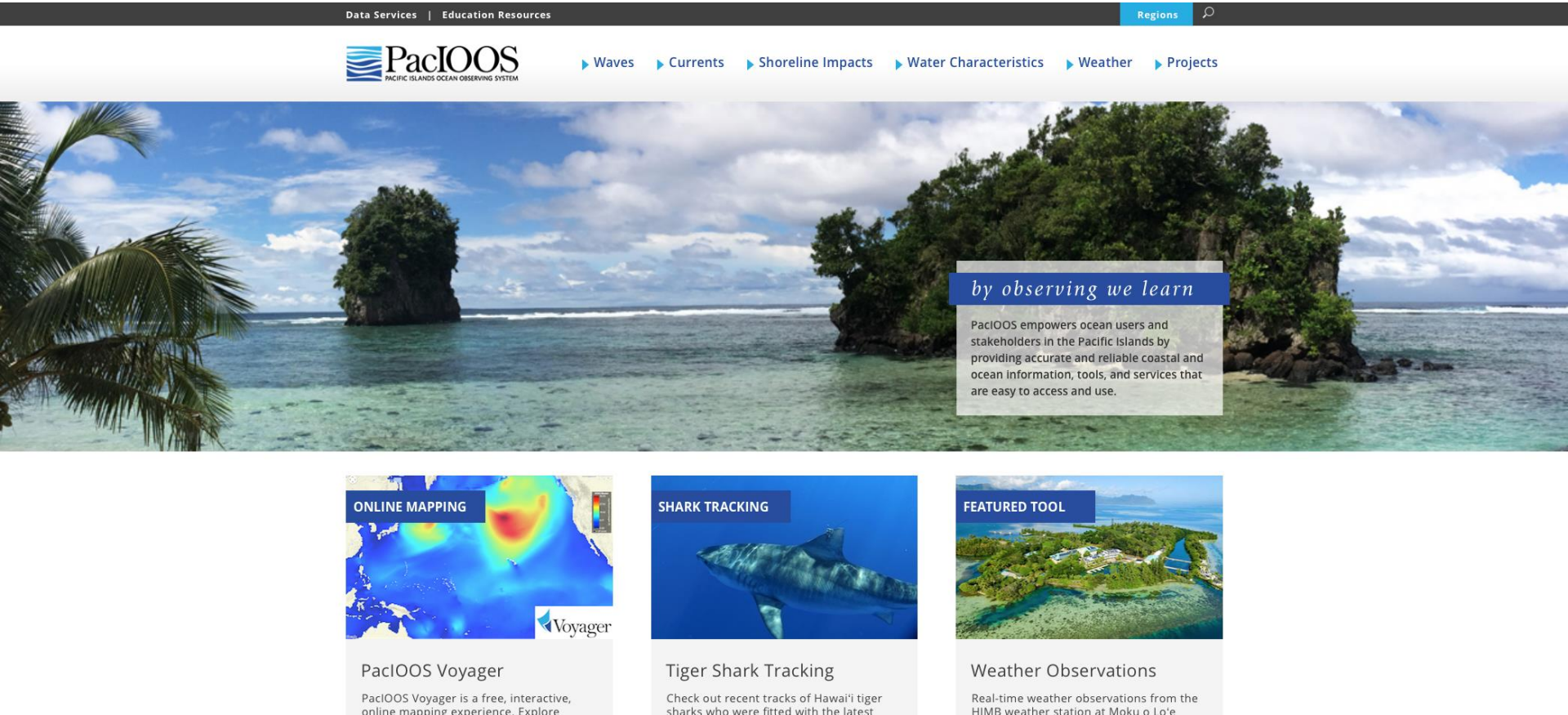
GeoServer

Access GIS layers via Open Geospatial Consortium (OGC) web services (WMS, WFS, WCS). Search and map layers in GeoExplorer data viewer.

See More >

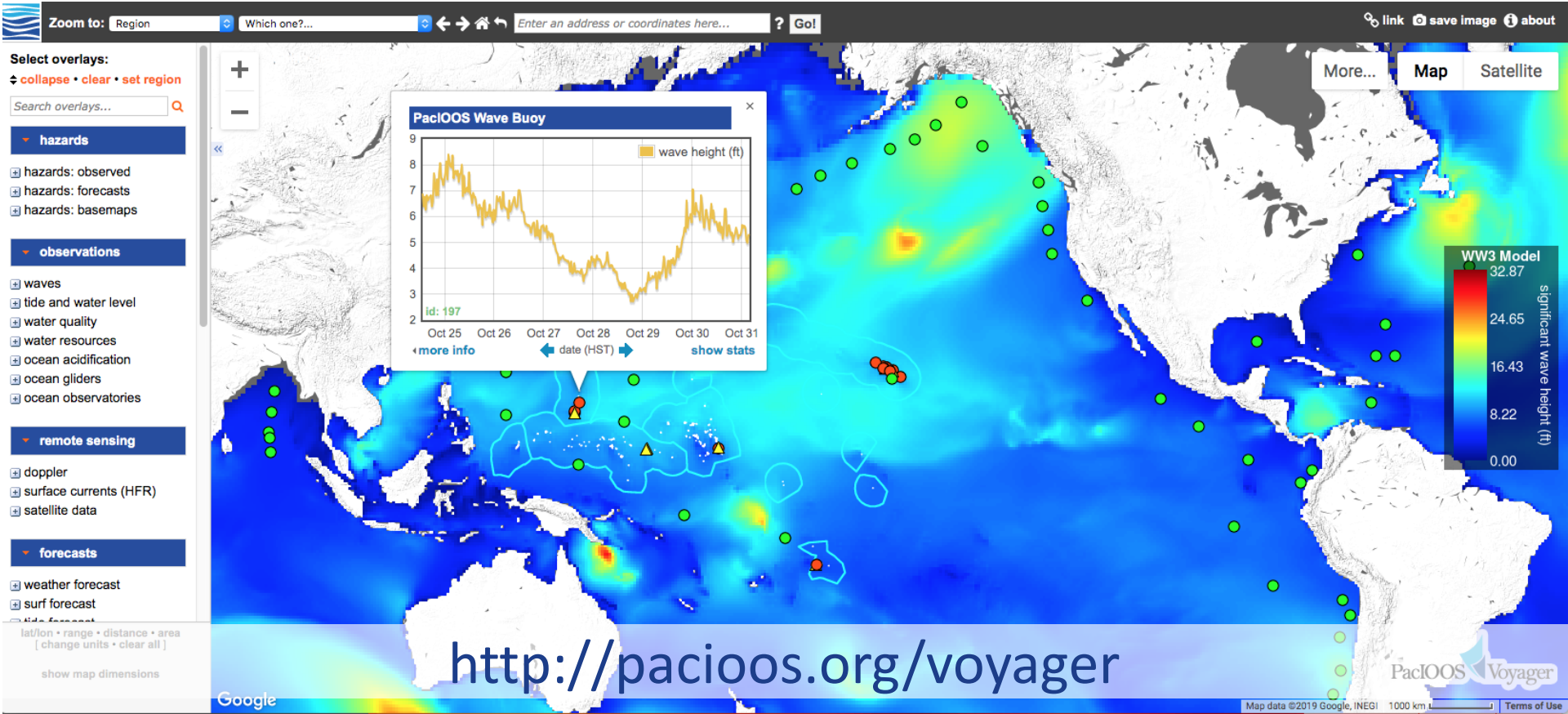
PacIOOS Website

www.pacioos.org



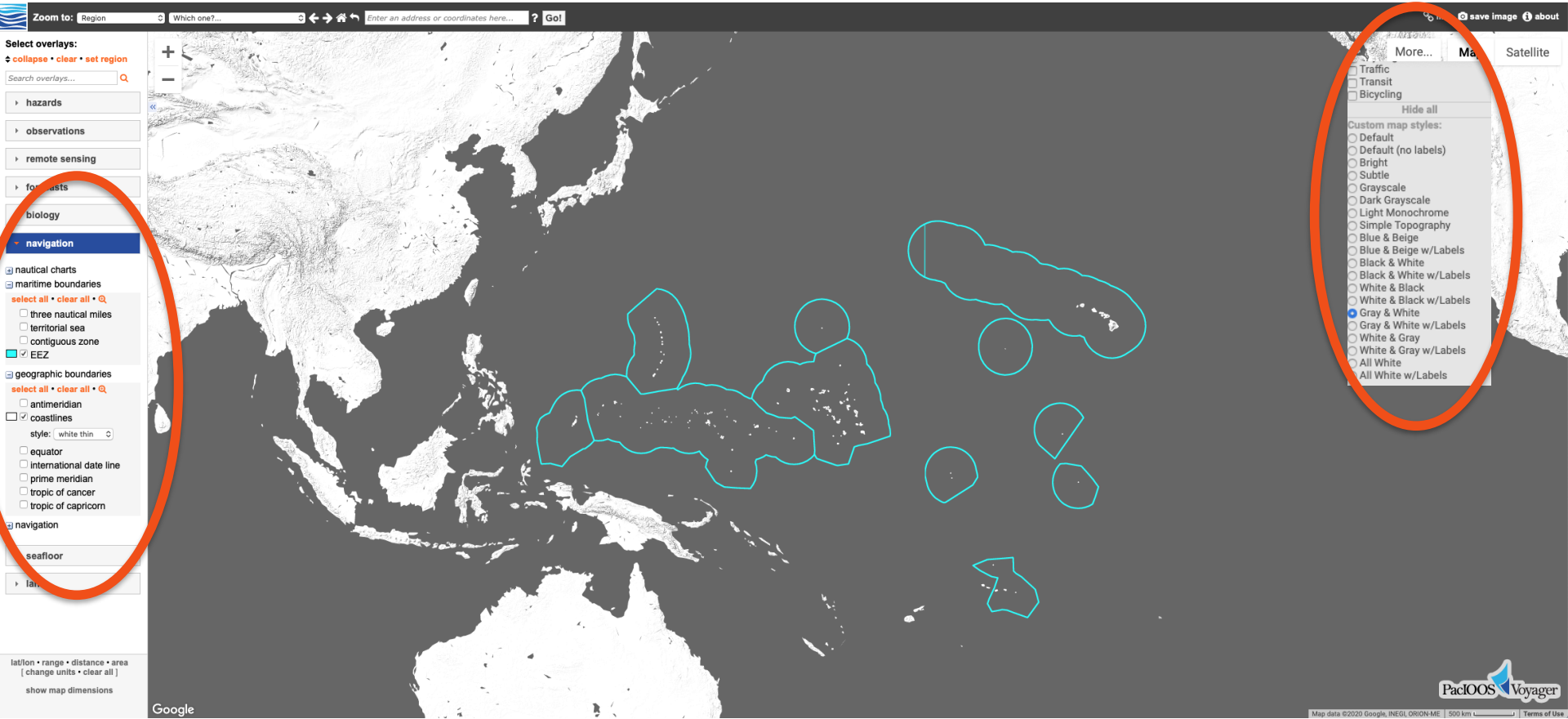
Data Visualization: PacIOOS Voyager

Dynamic, Customizable Visualization Platform



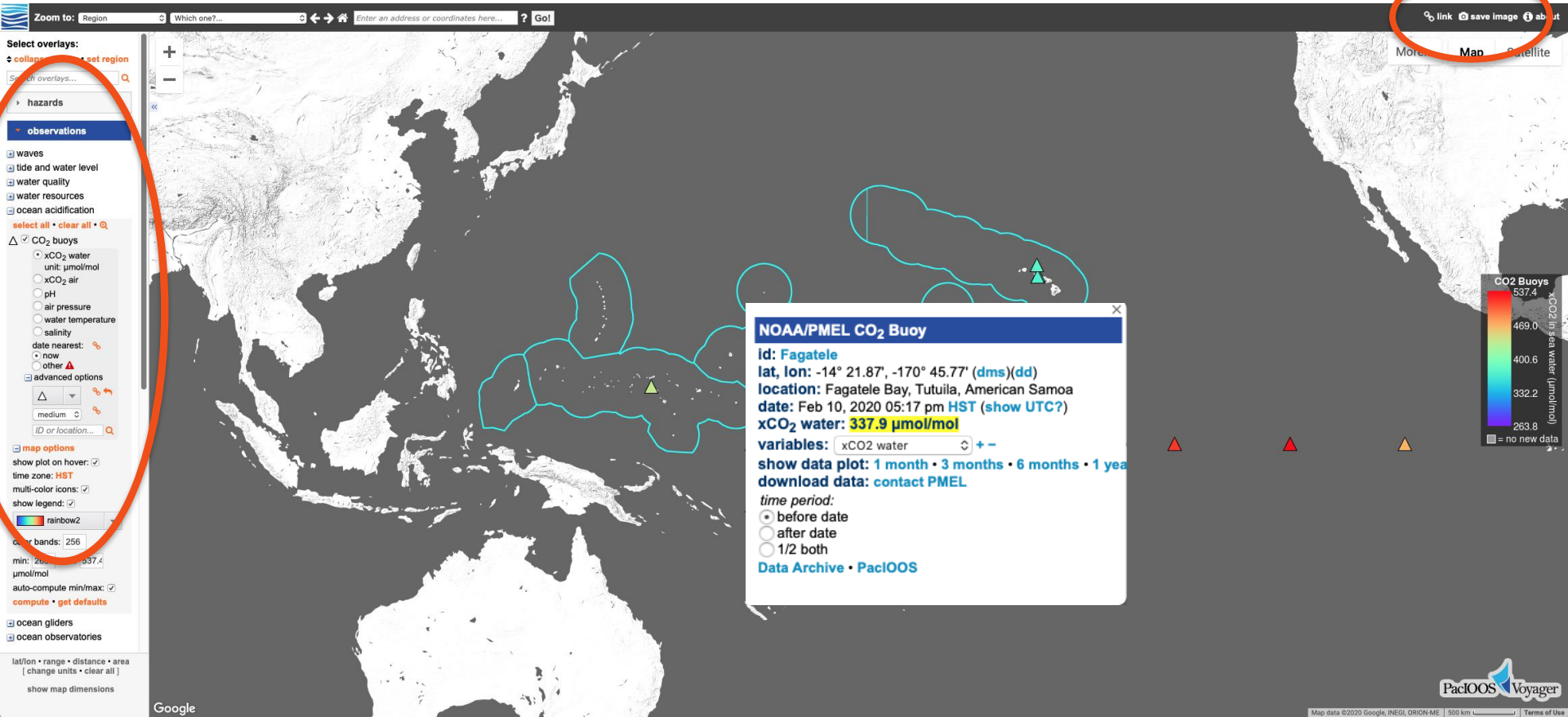
Data Visualization: PacIOOS Voyager

Customization



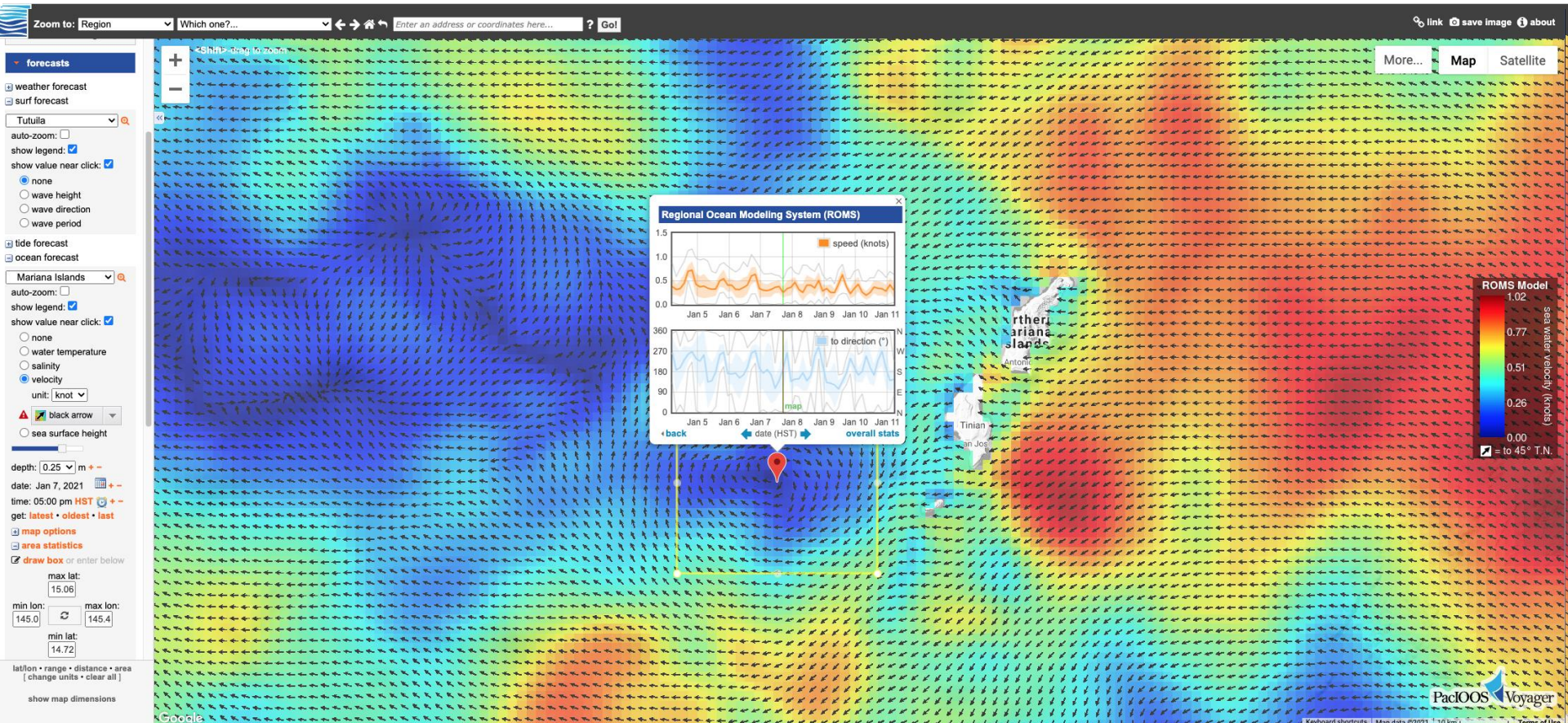
Data Visualization: PacIOOS Voyager

Customization



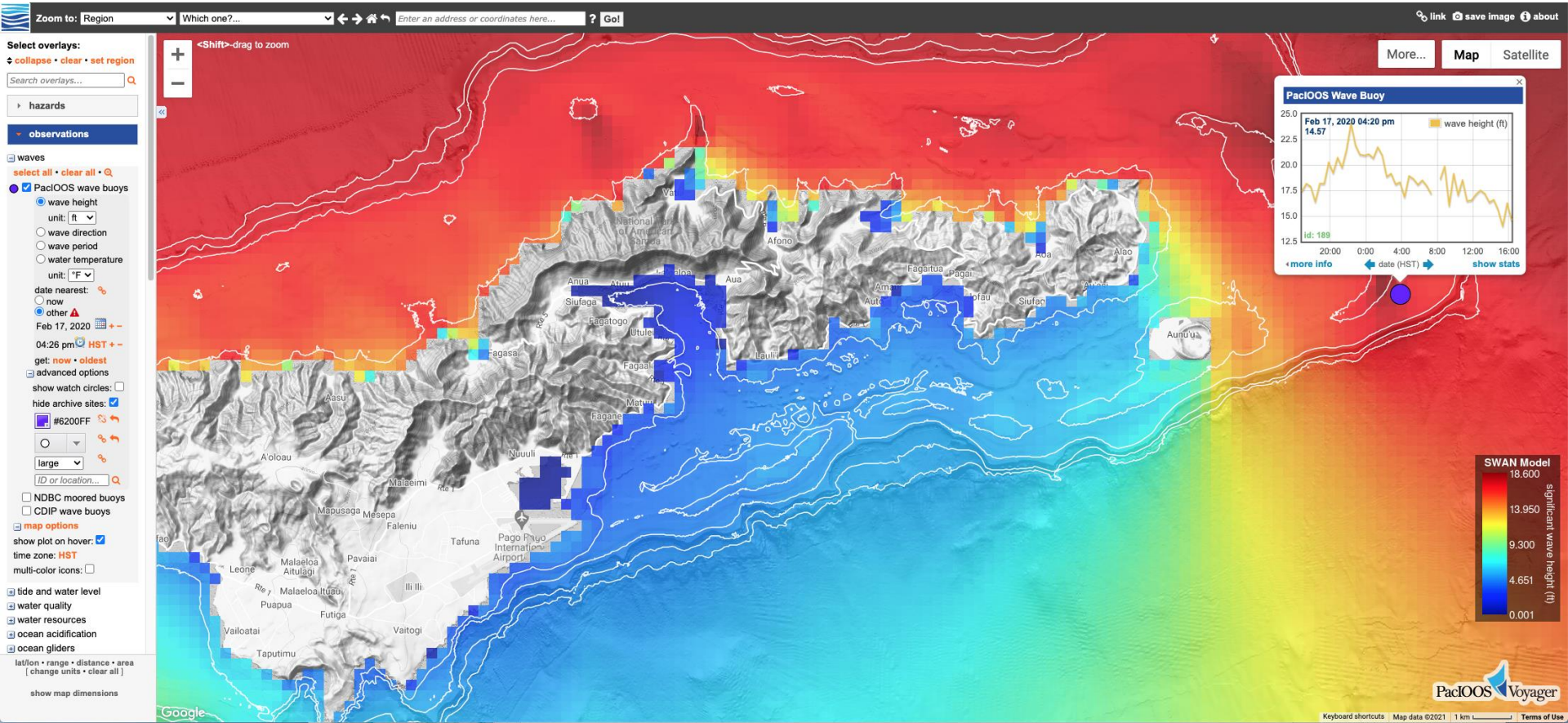
PacIOOS Voyager for Currents

Mariana Islands, January 2021



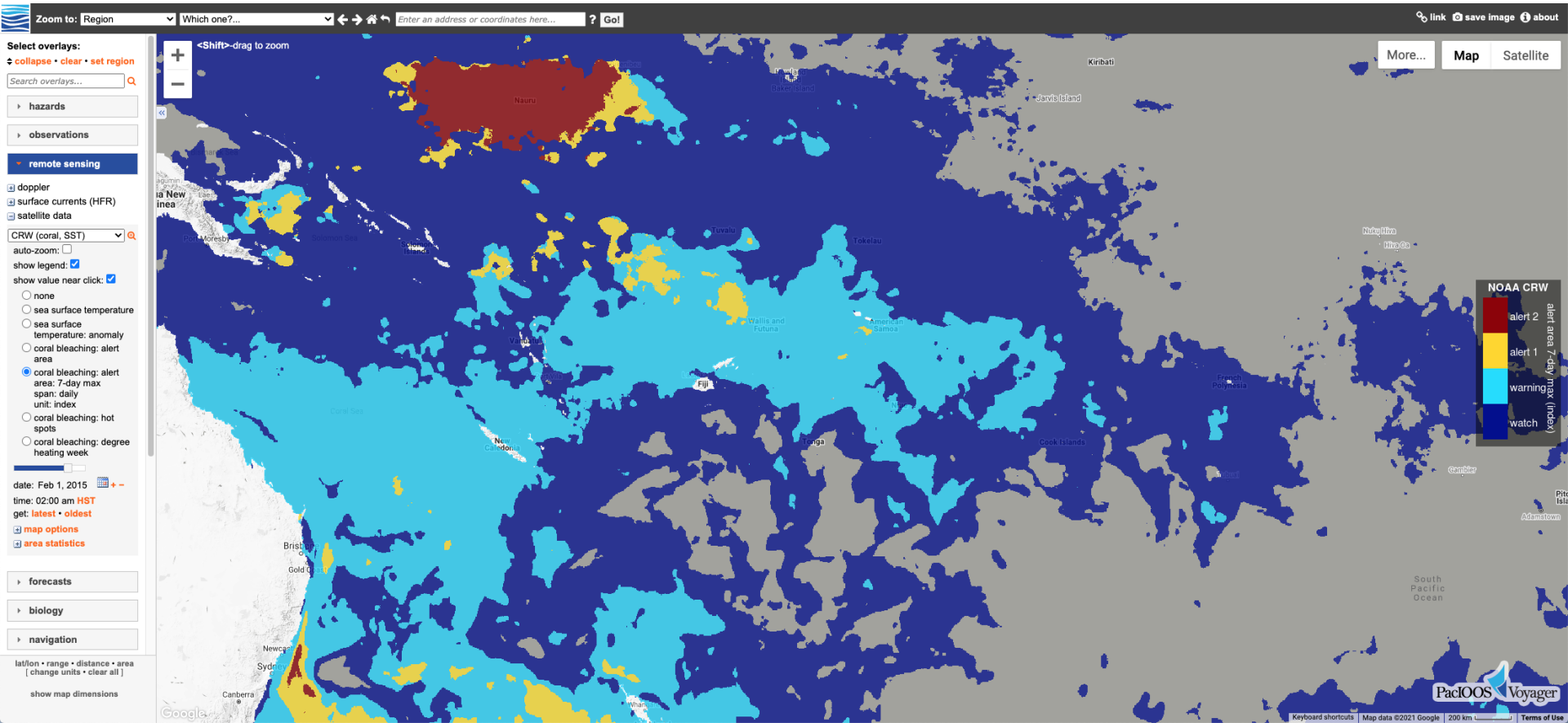
PacIOOS Voyager for Storm Visualization

Tropical Cyclones, Samoa, February 2020



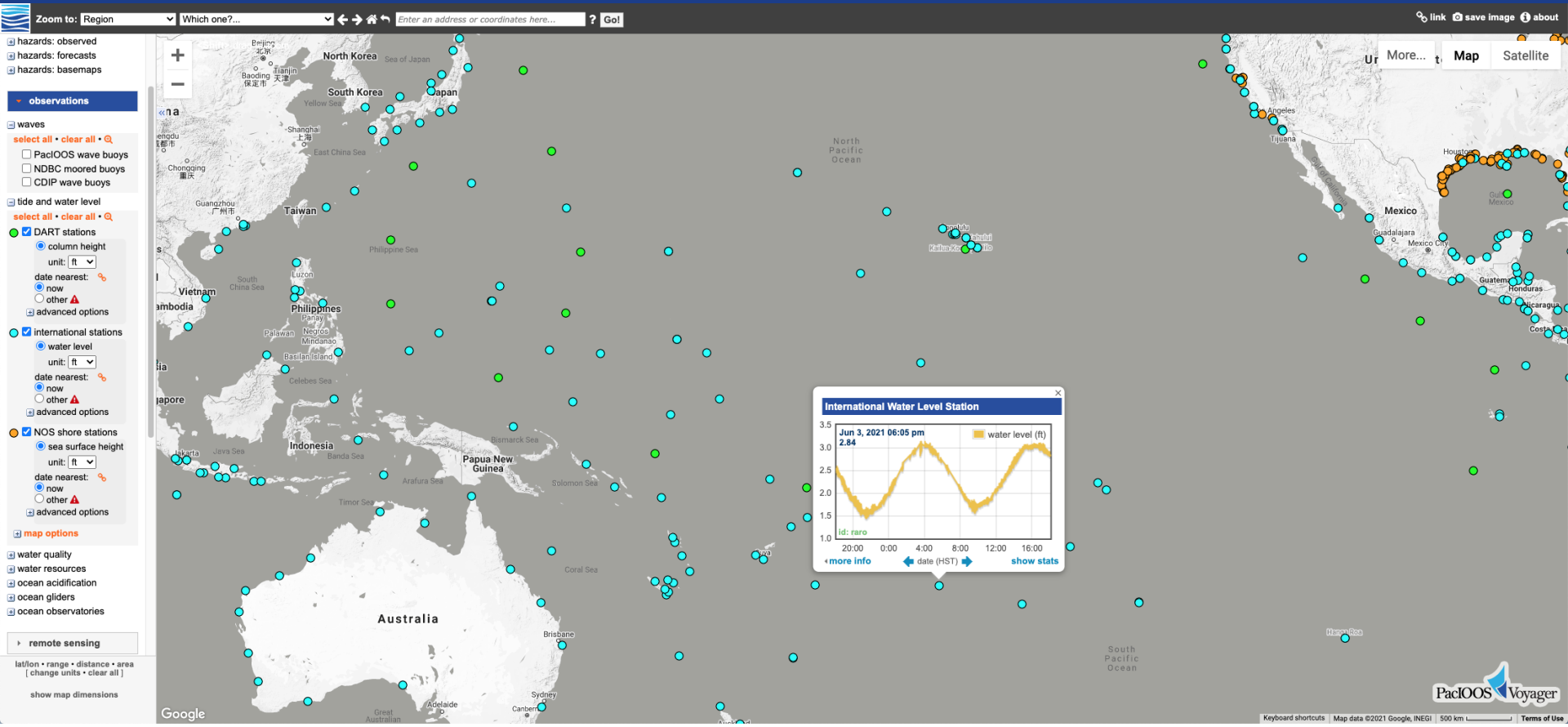
PacIOOS Voyager for Coral Reef Watch

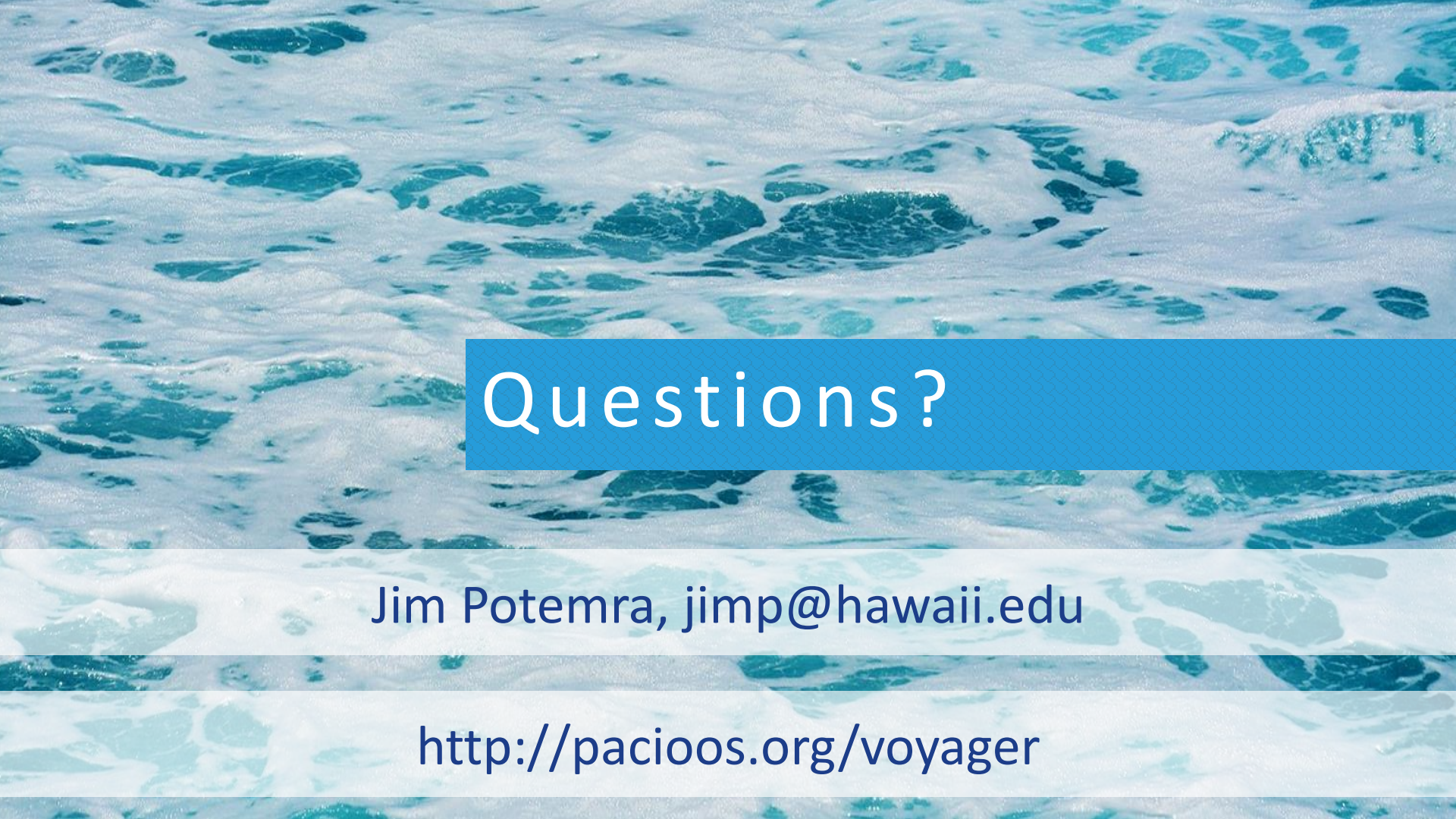
Coral Bleaching, South Pacific, February 2015



PacIOOS Voyager for Water Levels

Pacific-wide Water Level Station





Questions?

Jim Potemra, jimp@hawaii.edu

http://pacioos.org/voyager