



Pacific Ocean Portal

Team Ocean Prediction and Monitoring - SPC

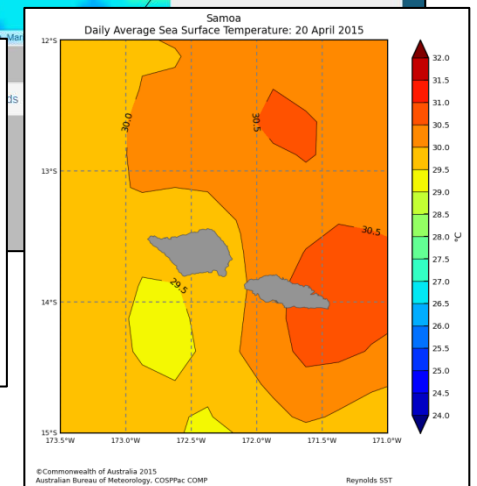
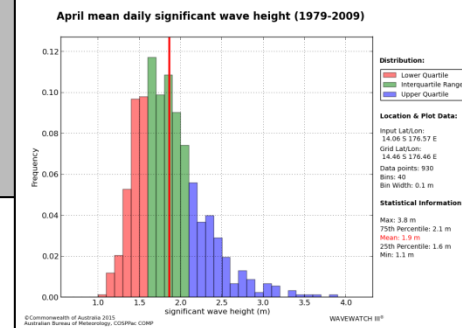
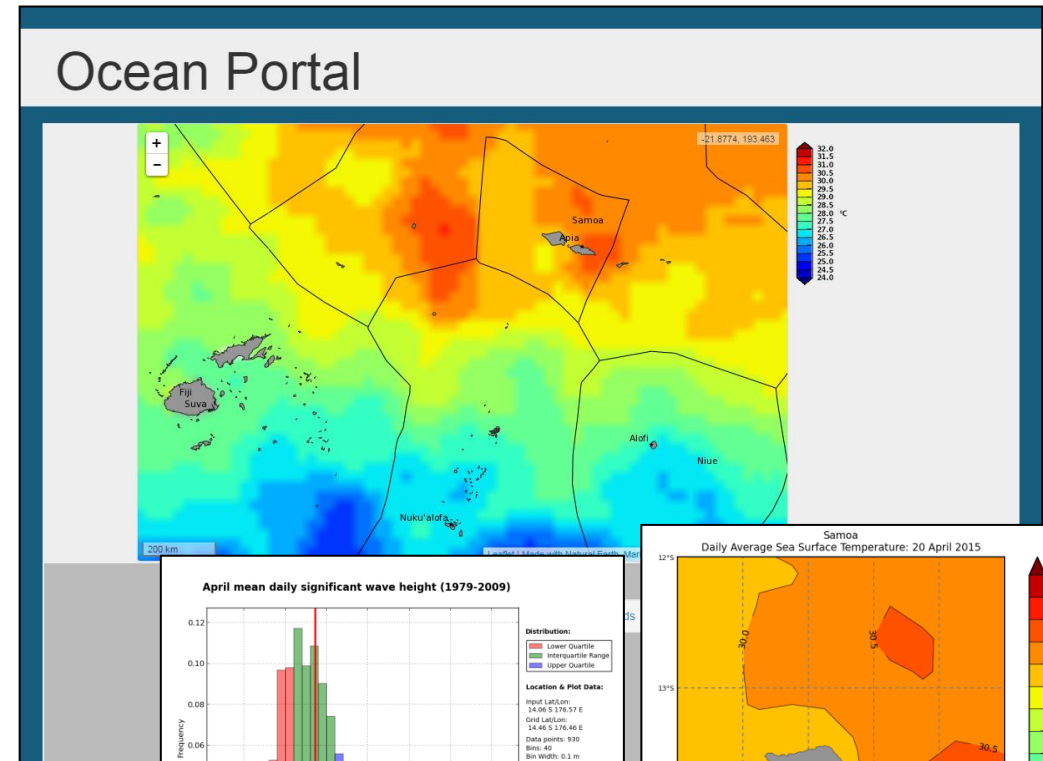
Pacific Ocean Portal - Homepage



- <https://oceanportal.spc.int>

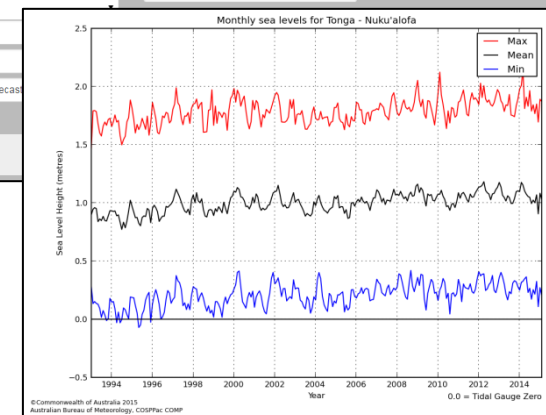
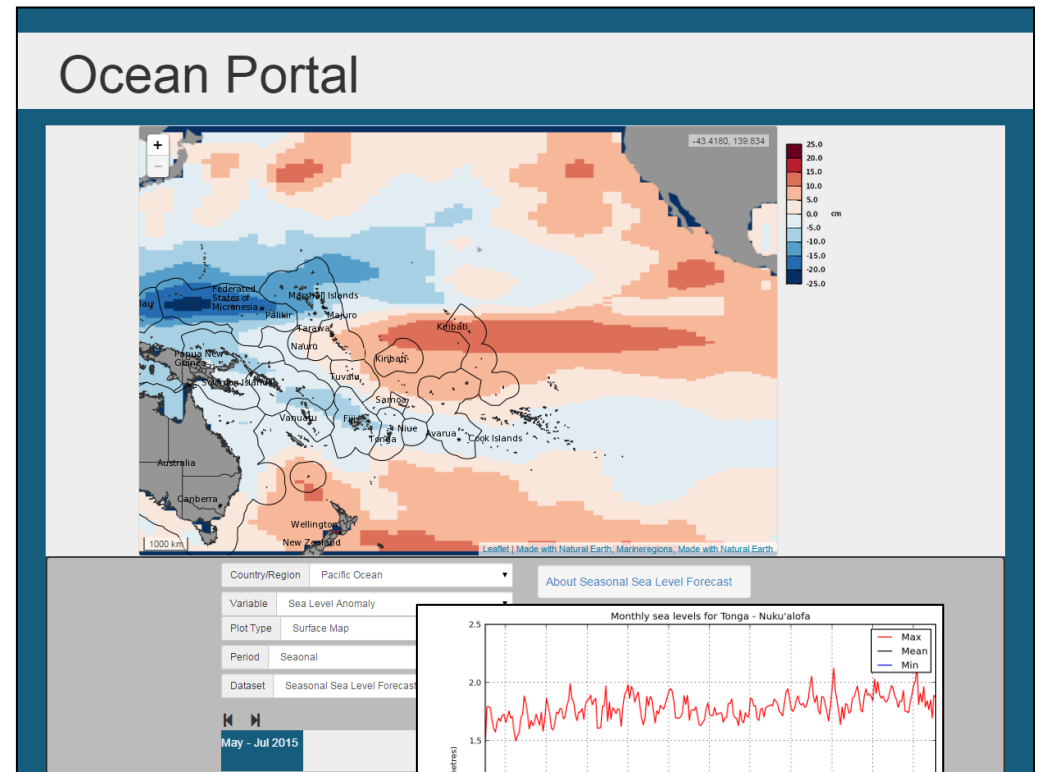
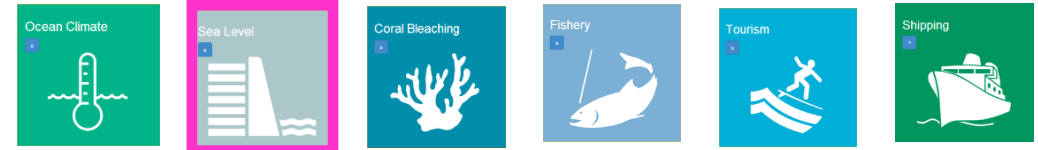
Ocean Monitoring

- Near real time sea surface temperature updated daily.
- Sea surface temperature statistical averages and anomalies for various time periods.
- Wave Climatology from the past 30-years.
- Monthly chlorophyll data.



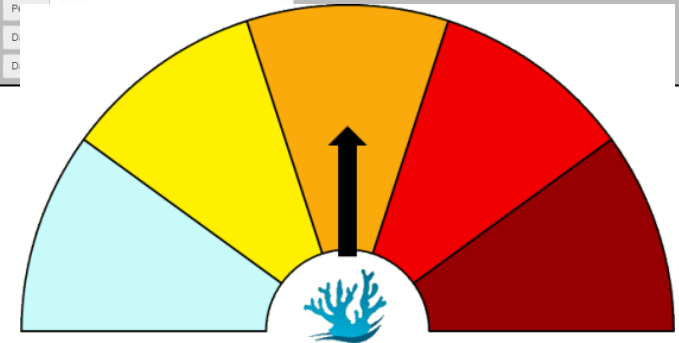
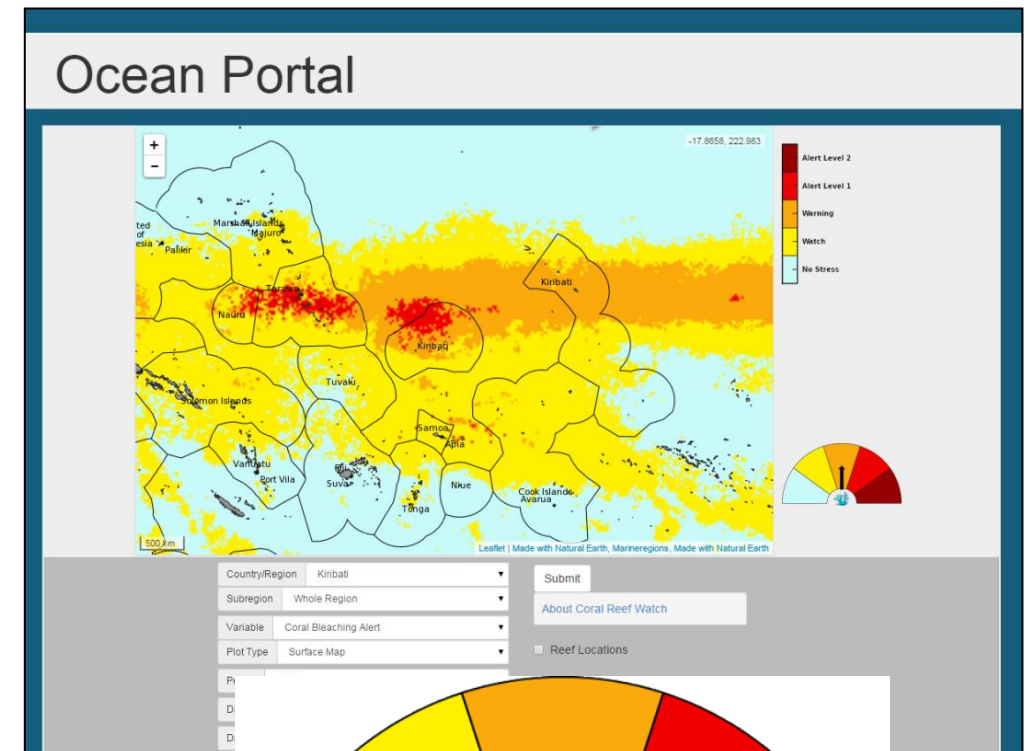
Sea Level

- Altimetry maps dating back to 1993.
- Reconstruction maps dating back to 1950.
- Time series statistics for Pacific tide gauge network.
- Wave forecasts from AUSWAVE model – for predicting inundation events.
- Sea Level Forecasts (ACCESS-S).



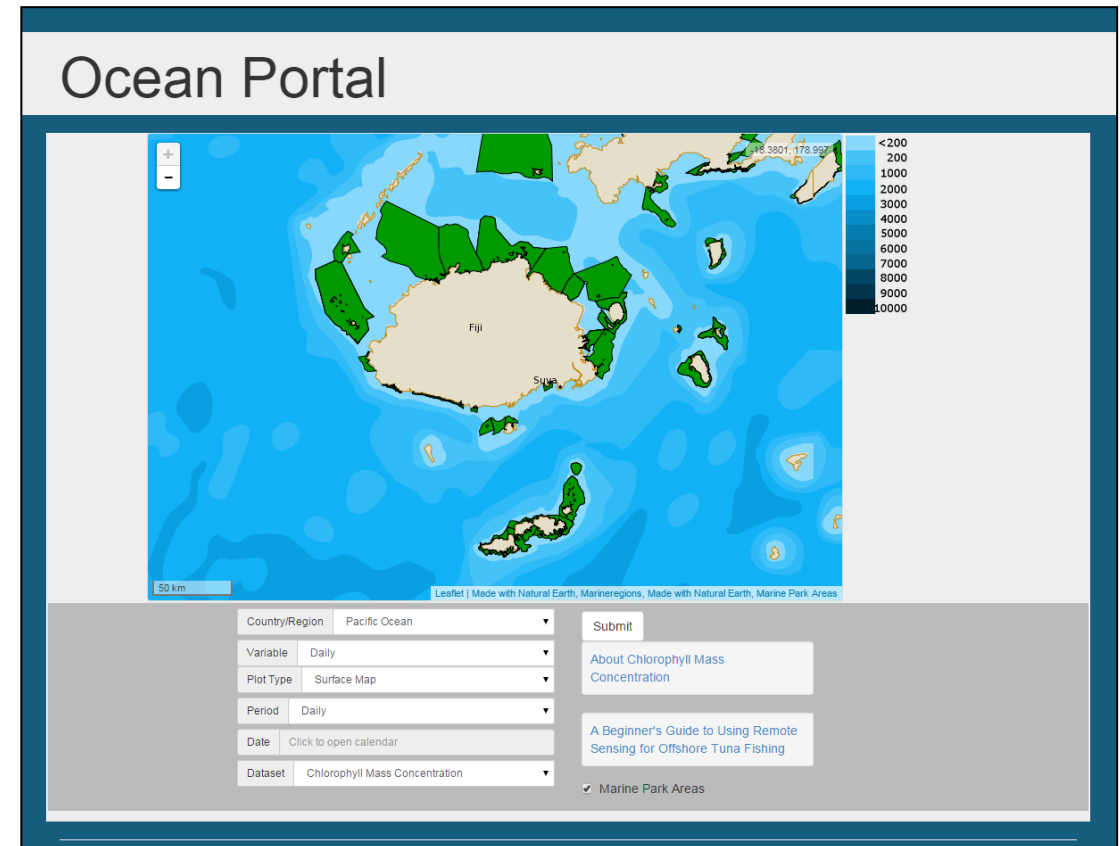
Coral Reefs

- Collaboration with NOAA Coral Reef Watch Project
Provides warnings in near real time and forecasts for potential coral bleaching events
- Forecast sea surface temperature Anomalies also available out to 9 months ahead (ACCESS-S).
- Daily chlorophyll data



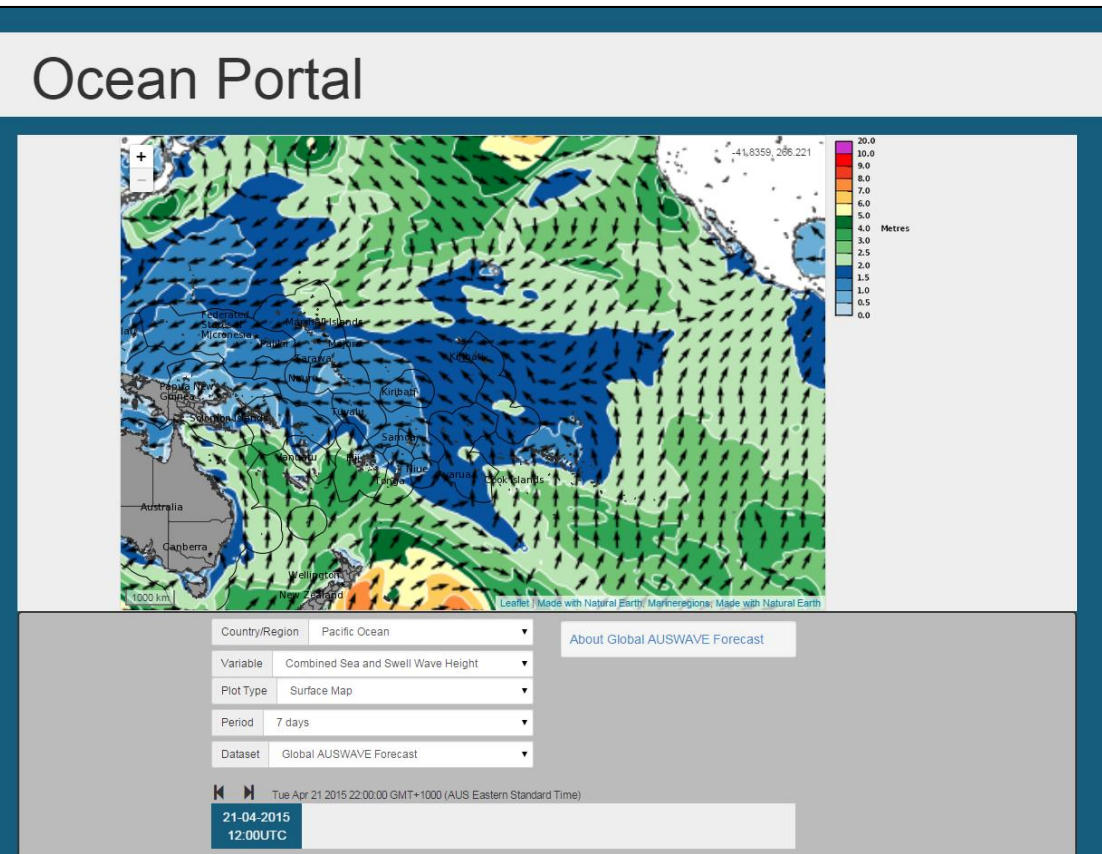
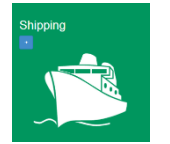
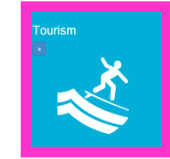
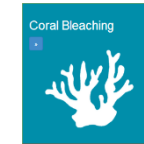
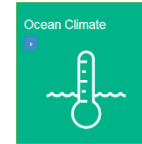
Fisheries

- Sea surface temperatures (near real time and forecasts).
- Daily chlorophyll maps to indicate areas of high biological activity.
- Marine Protected Areas available as an overlay to indicate potential restricted zones (shown right →).



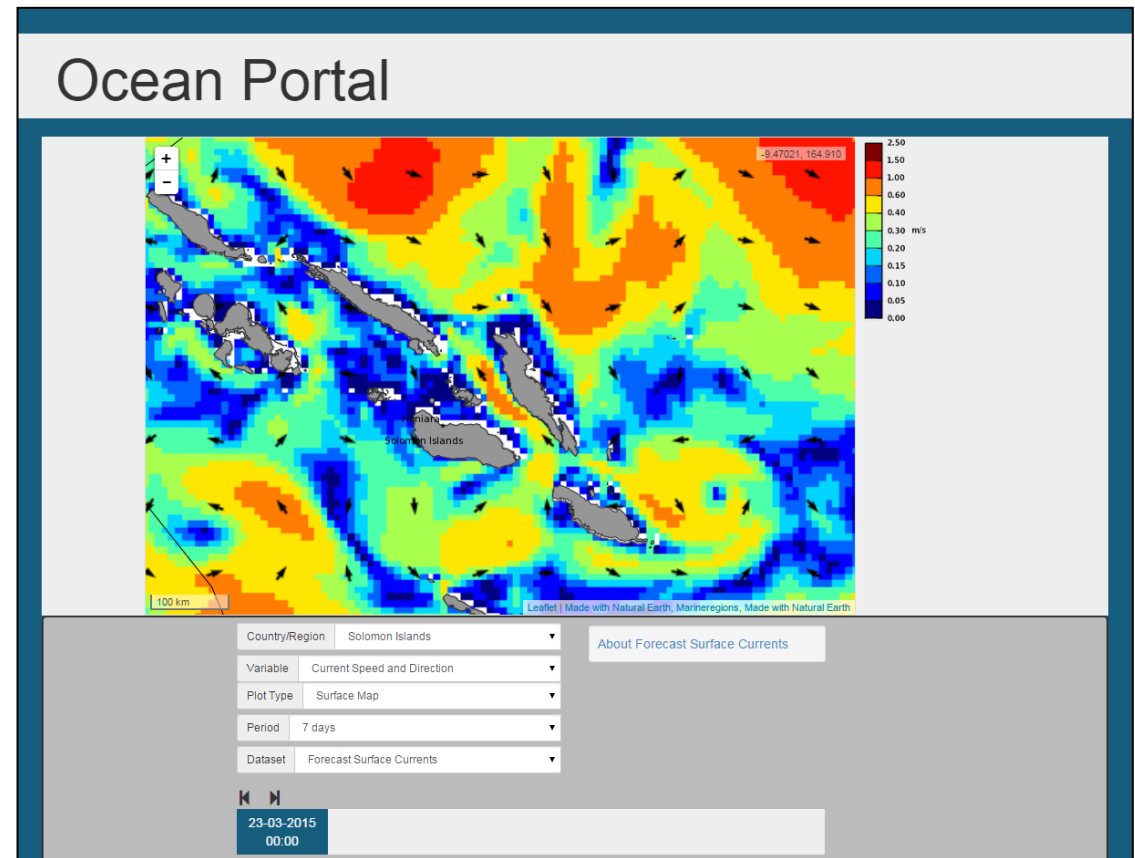
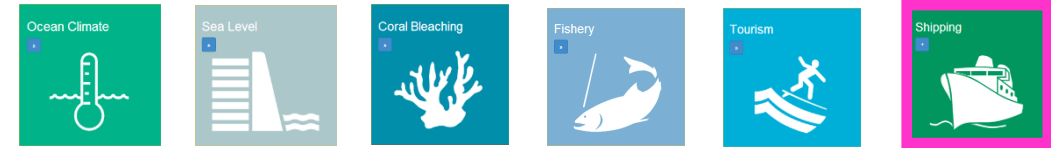
Tourism

- Wave forecast information from AUSWAVE up to seven days in advance.
- Wind forecast information also available.
- Useful for planning particular recreational activities.



Shipping

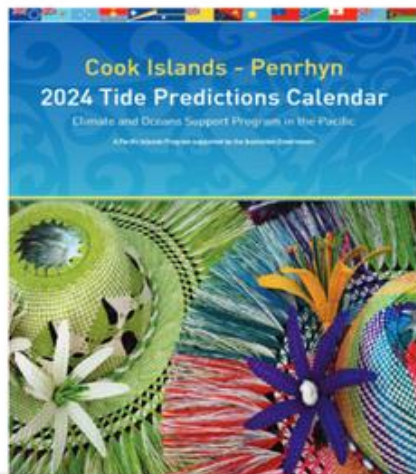
- Wave forecast – for offshore shipping activities.
- Wind forecast – useful for small boat operators to indicate choppy conditions.
- Current forecast - planning efficient shipping routes.



Tide Calendar

2024 Tidal Prediction
Calendar

**2024 Cook Islands -
Penrhyn**



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2024 Tidal Prediction
Calendar

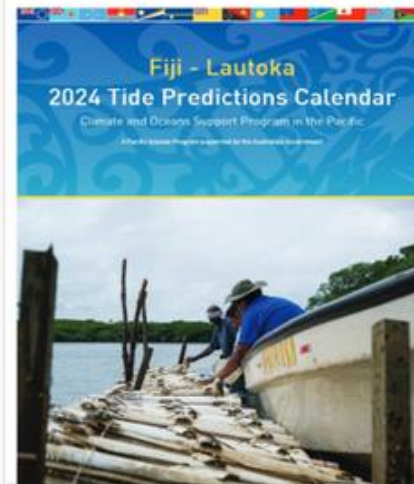
**2024 Cook Islands -
Rarotonga**



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2024 Tidal Prediction
Calendar

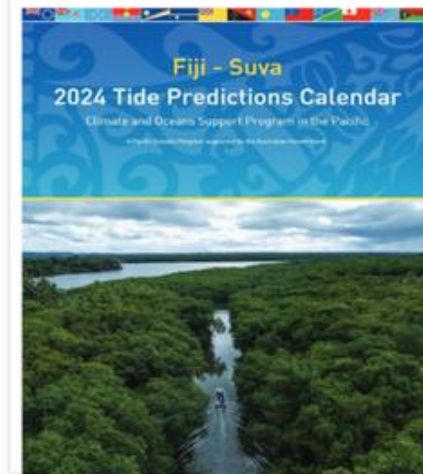
2024 Fiji - Lautoka



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2024 Tidal Prediction
Calendar

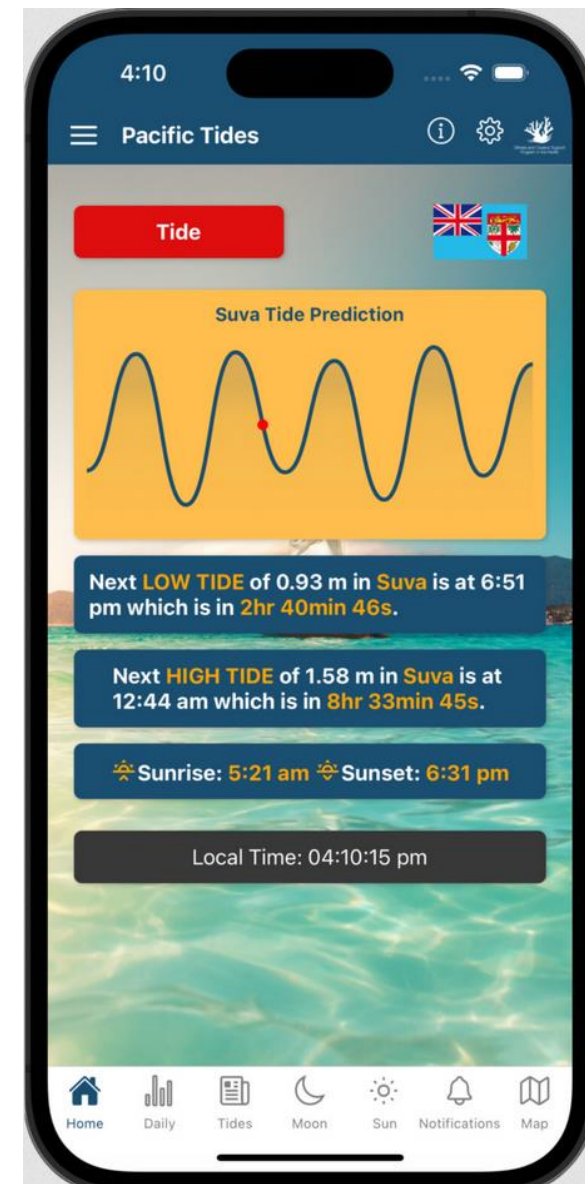
2024 Fiji - Suva



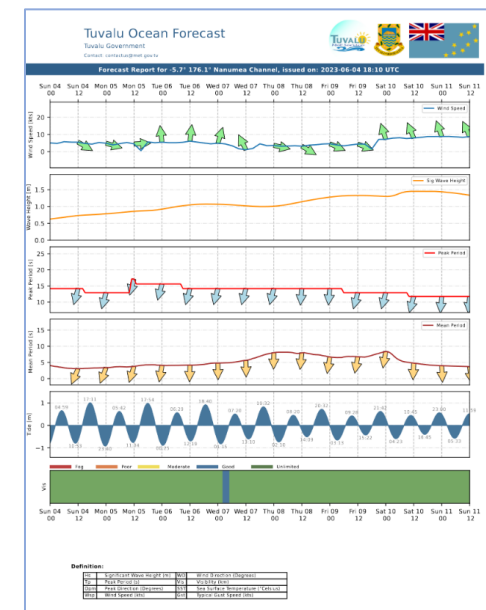
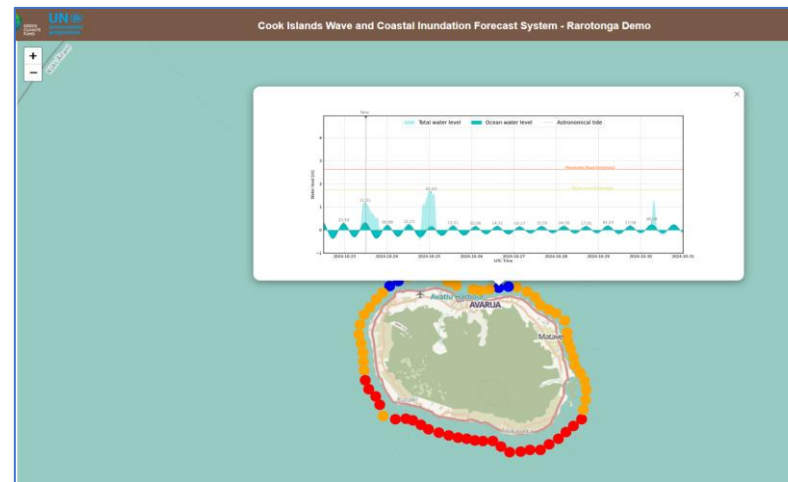
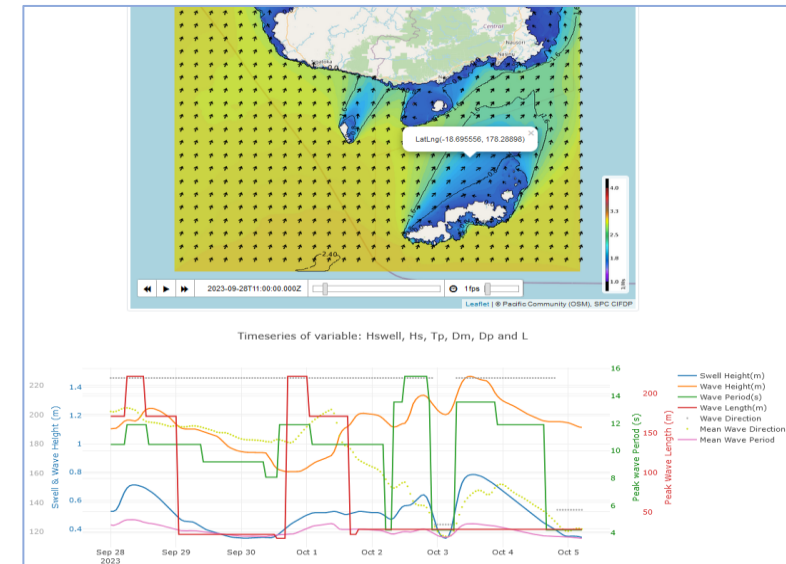
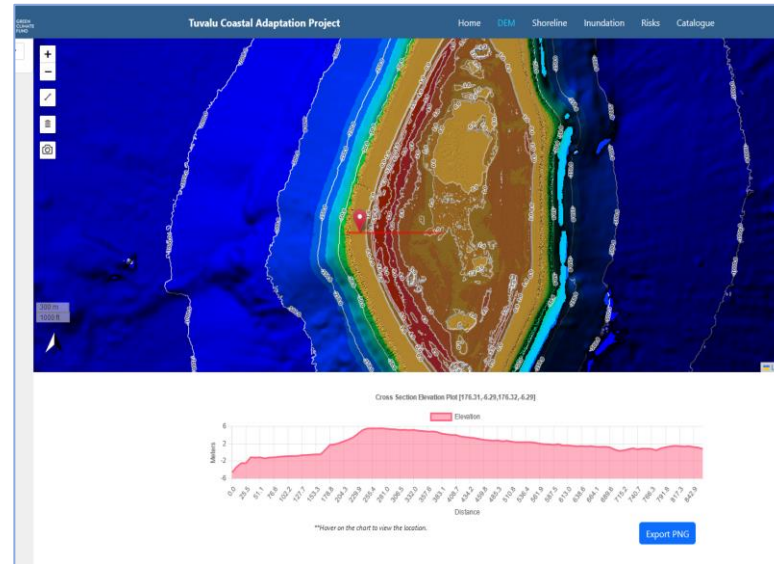
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Pacific Tides App

- Moon Sun and Tide Forecast for PICs.
- 100% offline access to information.
- Free opensource software.

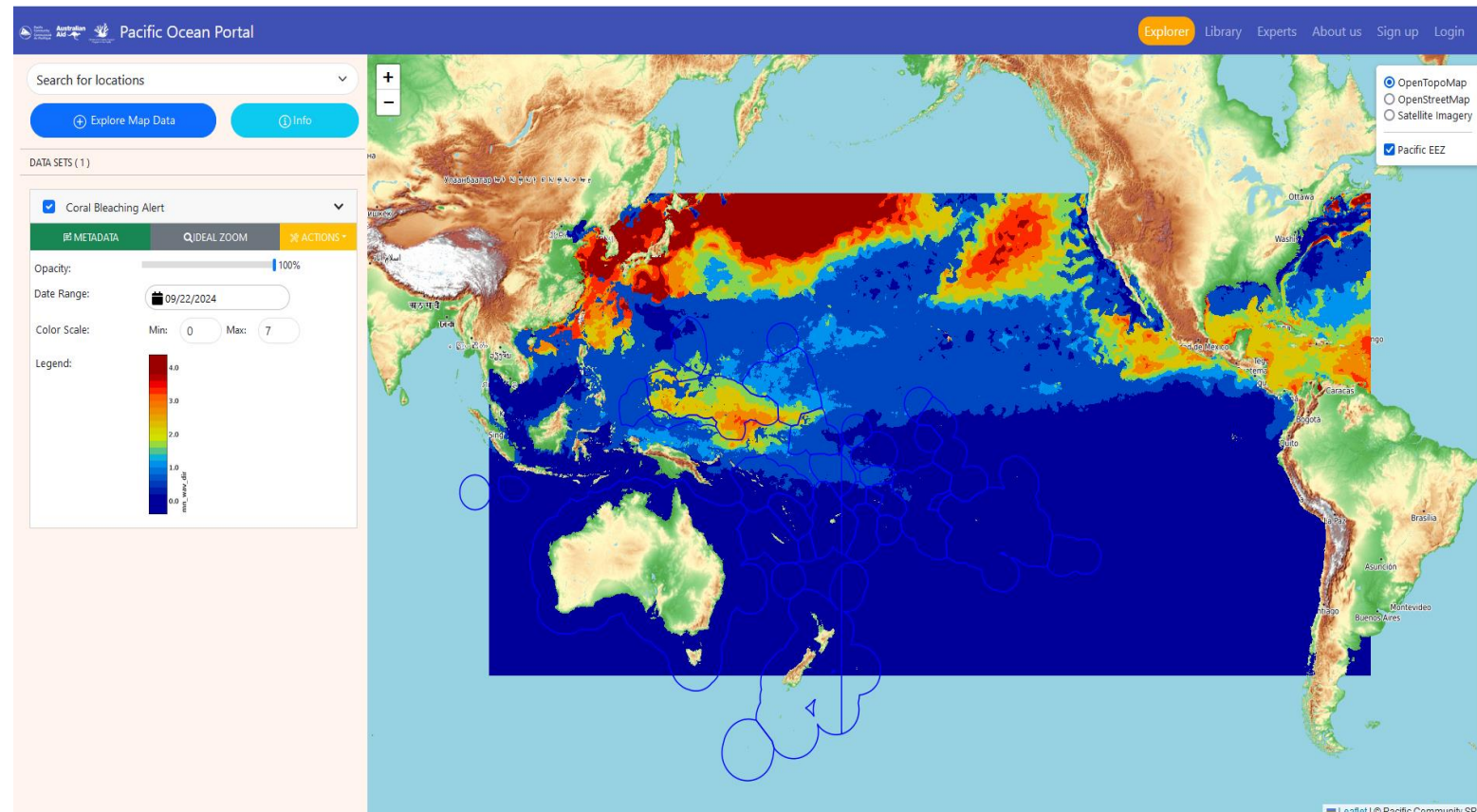


Tailored Products



Ocean Portal 2.0

- Development stage with the Pacific Ocean Portal 2.0.
- Integration of new Datasets and tailored products.



Data Management

DATASETS

Climate DB

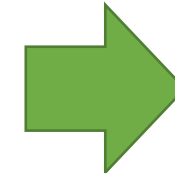
Vector Data

Gridded Data

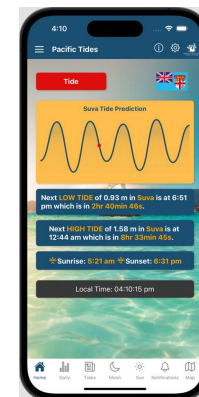
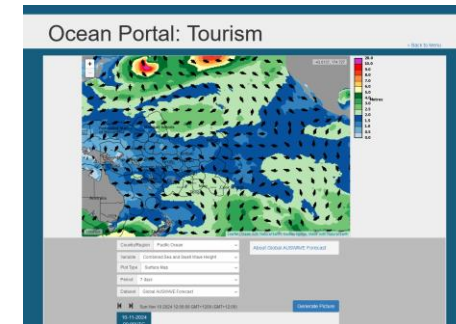
text/xml/csv



MIDDLEWARE



VISUALIZATION



Thank You!