

# CMAR DATA CHEAT SHEET

CMAR collects data on critical environmental variables to support and inform science-based development of coastal industry, guide government policy and management decisions, encourage environmental stewardship, and ensure preparedness for climate change impacts. Our mission is to ensure this data is publicly accessible in a variety of formats. Here, we outline our Coastal Monitoring Program data products & the ways in which they can be accessed.

## Water Quality

Water quality data (e.g., temperature, dissolved oxygen, and sometimes salinity) is collected using CMAR's "sensor strings". Each string is attached to the seafloor by an anchored acoustic release and suspended by a sub-surface buoy, with sensors attached at various depths.

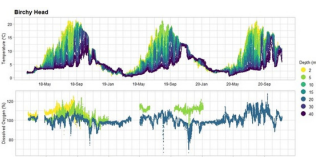


Processed\* data is summarized in reports by county, which are available at [CMAR's website](#) and updated regularly.

Processed data is grouped by county, and can be downloaded directly from the Nova Scotia [Open Data Portal](#).

A map of sensor string locations is also available on the Nova Scotia [Open Data Portal](#).

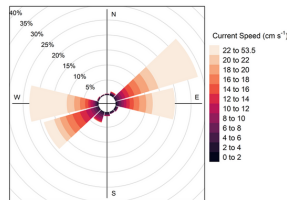
CMAR is currently working with [CIOOS Atlantic](#) to make the Coastal Monitoring data available for download through their platform on the ERDAPP server.



\*Water Quality data was processed & plotted using the CMAR-developed R package 'strings'

## Current Profiles

Acoustic Doppler Current Profilers (ADCPs) have been deployed by the [NSDEFA](#) in coastal waters of Nova Scotia to collect current profiles at a deployment location. CMAR has processed over 71 datasets containing current speed & direction at varying depths.



Processed data is summarized in reports, which are available via the ADCP map on [CMAR's website](#) and updated regularly.

Processed data is grouped by county, and can be downloaded directly from the Nova Scotia [Open Data Portal](#).

A map of ADCP deployment locations is also available on the Nova Scotia [Open Data Portal](#).

CMAR is currently working with [CIOOS Atlantic](#) to make the current profile data available for download through their platform on the ERDAPP server.



## Waves

CMAR has several wind-wave buoys and ADCP meters which collect wave height, period and sometimes direction data throughout coastal Nova Scotia. Information on how and why the wave data were collected is available on [CMAR's website](#).



Processed data will be summarized in reports by county, and made available at CMAR's website.

Processed data will be grouped by county, and made available for download directly from the Nova Scotia Open Data Portal.

A map of sensor locations will be available on the Nova Scotia Open Data Portal.

Wave & weather data from three wind-wave buoys is streamed in near real-time to the [CIOOS Atlantic](#) ERDAPP server where it is available for download.

