



The Global Ocean Acidification Observing Network (GOA-ON) is a collaborative international approach to document the status and progress of ocean acidification in open-ocean, coastal, and estuarine environments, to understand the drivers and impacts of ocean acidification on marine ecosystems, and to provide spatially and temporally resolved biogeochemical data necessary to optimize modeling for ocean acidification.



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Approach and Goals

Detailed information about the GOA-ON background, design, implementation, and data strategy can be found here:

[Global Ocean Acidification Observing Network: Requirements and Governance Plan \(JA Newton, RA Feely, EB Jewett, P Williamson, J Mathis\)](#)

GOA-ON high-level goals:

Goal 1 - Improve our understanding of global OA conditions:

- Determine status and spatial / temporal patterns in carbon chemistry, assessing the generality of response to ocean acidification.
- Document and evaluate variation in carbon chemistry to infer mechanisms (including biological) driving ocean acidification.
- Quantify rates of change, trends, and identify areas of heightened vulnerability or resilience.

Goal 2 - Improve our understanding of ecosystem response to OA:

- Track biological responses in concert with physical/chemical changes.
- Quantify rates of change and identify locations and species of heightened vulnerability or resilience.

Goal 3 - Acquire and exchange data and knowledge necessary to optimize modeling for OA and its impacts:

- Provide spatially and temporally resolved biogeochemical data for use in parameterizing and validating models.

* * What's New * *

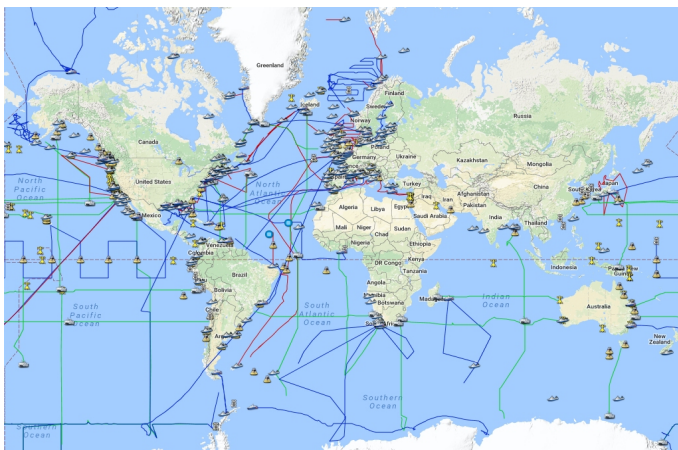
GOA-ON releases a new [Data Portal](#)

The GOA-ON Interactive map has a new format and many new features, including:

- the ability to find platforms based on regions, platform type, and variables;
- overlays of aragonite saturation state and surface CO₂ concentration;
- real-time display of data from participating platforms;
- and much more!

Mouse over the buttons below to see examples of the new functionality.

[Filter by Platform Type or Variable](#) [Overlay Aragonite Saturation](#) [Real-time Data from participating platforms](#)



Click here to access the [GOA-ON Data Portal](#)

Building on the existing global oceanic carbon observatory network of repeat hydrographic surveys, time-series stations, floats and glider observations, and volunteer observing ships, the interactive GOA-ON map offers the best information available on the current inventory of global OA observing platforms. This is a strong foundation of observations of the carbonate chemistry needed to understand chemical changes resulting from ocean acidification.

Note to participants and contributors: If you would like to add or modify a platform, please fill out this on-line form: [GOA-ON Survey](#)

An International Effort

See how GOA-ON has grown!

Network Members - 330 Scientists from 67 countries are currently participating in the GOA-ON.

Interested in becoming a member? Click [here](#).

Friends of GOA-ON - a charitable fund administered by The Ocean Foundation to support the goals and activities of GOA-ON. Click here to [donate](#).

Newsletters/Workshops/Activities

► [3rd GOA-ON Science Workshop, 8-10 May 2016, Hobart, Australia](#); attended by 130 scientists from 37 nations.

► [GOA-ON 2013 Workshop, St. Andrews, UK](#) attended by 87 participants from 26 countries

► [GOA-ON 2012 Workshop, University of Washington, Seattle, WA](#) attended by 62 participants from 22 countries

► [April 2015 Newsletter](#)

► [October 2014 Newsletter](#)

Current news about Ocean Acidification:

[OA-ICC News Stream](#)

A nested approach.
The three high-level goals for each geographic environment will be realized using a nested approach differentiating between: critical minimum measurements (Level 1); enhanced measurements to further the understanding of primary mechanisms (Level 2); and opportunistic or experimental measurements (Level 3).

GOA - ON Events

Today	Monday, January 16
Sunday, February 12	
OA-Africa Network Meeting	
Monday, February 13	
OA-Africa Network Meeting	
Tuesday, February 14	
OA-Africa Network Meeting	
Wednesday, February 15	
OA-Africa Network Meeting	
Thursday, February 16	
OA-Africa Network Meeting	
Friday, February 17	
OA-Africa Network Meeting	

Events shown in time zone: GMT (no daylight saving) Calendar

