

Future Pathways for the BGC Argo Program: A workshop

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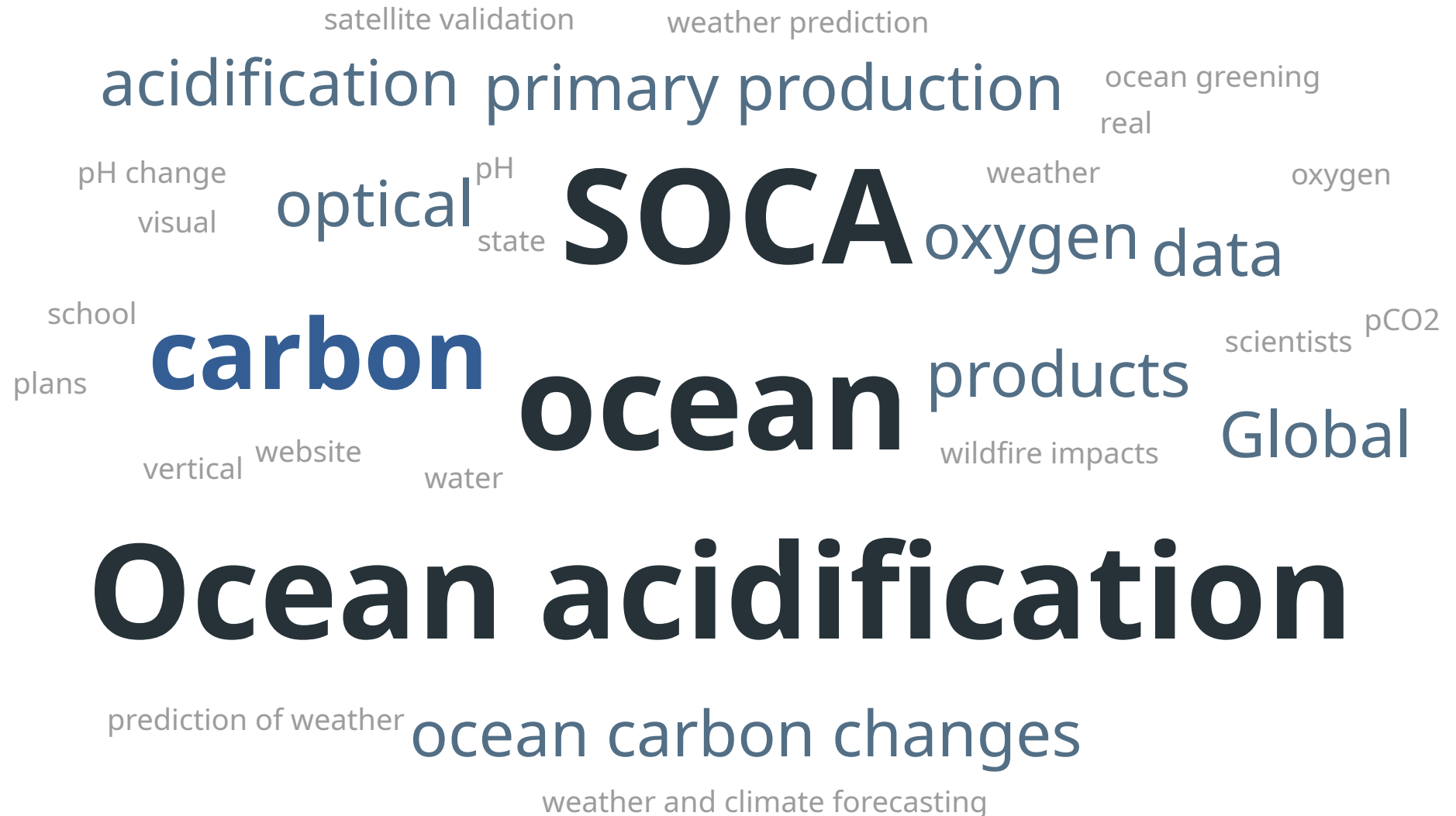
Poll results

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Existing Data Product Uses

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If you had 5 million dollars, what would be the one thing you would spend it on (for BGC Argo) (1/5)

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- \$200K on small pilot projects with fisheries, other stakeholders to test value of BGC-Argo data in their work
- \$5M prize for best business plan to make money from BGCArgo information.
- Invest in a common float interface... and in the ability to software update float firmware and post deployment.
- I would fund sufficient floats (and sensors) to test new generations of sensors for particulate carbon concentrations and fluxes, More interesting add assessment of food web processes responsible for export
- Design a flexible system of observing system simulation experiments to quantify the impact of the array on our understanding of global carbon uptake, deoxygenation, and ecosystem changes.
- I would accelerate the development of a hybrid wave-powered ocean glider

If you had 5 million dollars, what would be the one thing you would spend it on (for BGC Argo) (2/5)

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system and autonomous long duration feel operation to drive a step change in spatial and temporal data resolution and drop in cost of data – from currently TRL 2 - ish to TRL 4/5 ish and chase more fining before this one runs out. Slight of the topic, but related enough to mention here, I guess. Thanks for access to this great event and collaboration. Best wishes, Jochem Weber

- 500K on communicating the greatness

of Argo/BGC Argo, 500K on economic analysis value of float, 2M on increasing data QC, system automation, 1M on development toward improving reliability and performance of pH sensors

- Launch a blitzkrieg focused on the coming El Niño -
- If I could only spend the money on one thing only, it would be to maintain the data center at MBARI, who are not just the people processing US BGC floats, but

If you had 5 million dollars, what would be the one thing you would spend it on (for BGC Argo) (3/5)

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- also the people who help maintain the data system internationally. Without the data people at MBARI, not only the US BGC program will falter, the international BGC program will suffer.
- Hire a consulting company to do the economic analysis - value per float - and use the remaining funding to tell every decision maker who will listen.
 - deploy floats with 30 day cycles and support to maintain the array through tough times.
 - Establish the price (from the building of the 6 variable float to a fully data set qualified in DM) for one float and see how many floats I can afford with the 5millions and wait some better days
 - design a light-weight (500 g, 2000 m depth rating) hyperspectral radiometer (\$1m) and deploy on 30ish 6 sensor floats to test (\$2.4M) and use (\$1M on personnel)
 - (From Steve Riser). Use the \$5M (USD) to keep

If you had 5 million dollars, what would be the one thing you would spend it on (for BGC Argo) (4/5)

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- the people infrastructure going as long as possible.
- Hire a lobbying firm and commission an economic impacts study for OneArgo
- Ken's answer was similar: \$1M to develop hyperspectral radiometer and \$4M to build the floats (~35) to deploy as 6 parameter floats
- Spend it on optodes and optics with sufficient data management to support this
- our breakout group said the top priority was to fund the telemetry and data from existing floats
- I would convene a group of scientists, technologists, and Navy people for a 90-day intensive working meeting to identify potential national security applications of autonomous floats - what technology would be needed? what new science is needed? What sort of testing and development is needed? etc.
- \$4M towards the next set of 40 floats to keep the US endeavor in business for a year. \$1M for developing amazing AI applications.

If you had 5 million dollars, what would be the one thing you would spend it on (for BGC Argo)
(5/5)

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- spend it all on 6-parameter floats
and figure out the other details
later.