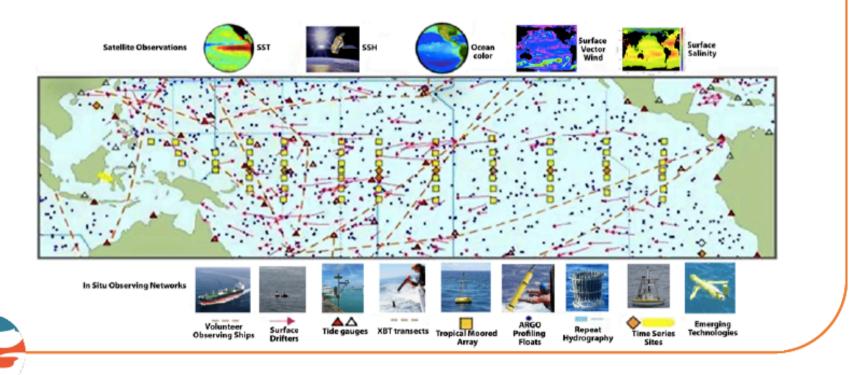
TPOS 2020 Project

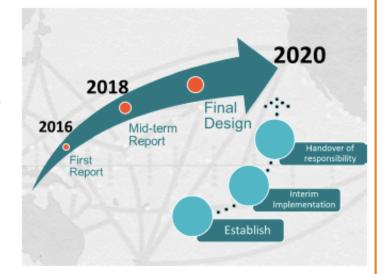
Review and re-design the Tropical Pacific Observing System

- Rethink in response to new needs, purposes, challenges: Define requirements
- Renew the interagency and intergovernmental cooperation that has been the hallmark of the TPOS since the mid-1980's
- Take advantage of new science and technology



TPOS 2020 Goals

- To redesign and refine the T.P.O.S. to observe ENSO and advance understanding of its causes
- To determine the most efficient and effective observational solutions to support prediction systems for ocean, weather and climate services
- To advance understanding of tropical Pacific physical and biogeochemical variability and predictability.





The First Report

- Published 30 December 2016 (ref. GCOS-200)
- 22 Recommendations
- 15 Actions
- First published design following the GOOS Framework

tpos2020.org/first-report

(much of this applies to the other tropical oceans!)



Four newly-funded OOMD pilots for TPOS 2020

- Autonomous surface vessels for PBL and surface BGC observations)
- Argo enhancements for rainfall, windspeed and biogeochemistry
- Enhanced ocean boundary layer observations from TAO moorings
- Direct covariance flux measurements from TAO moorings

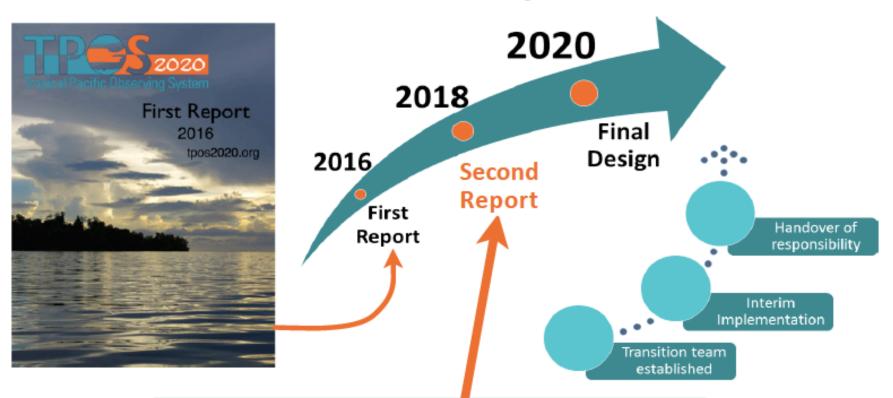
(About \$4.5M over 3 years)

The Saildrone might change how we sample the surface met and ocean.

It has great promise, but needs real-world testing to build confidence and learn its full capabilities and limitations.



Next steps



Second report focii:

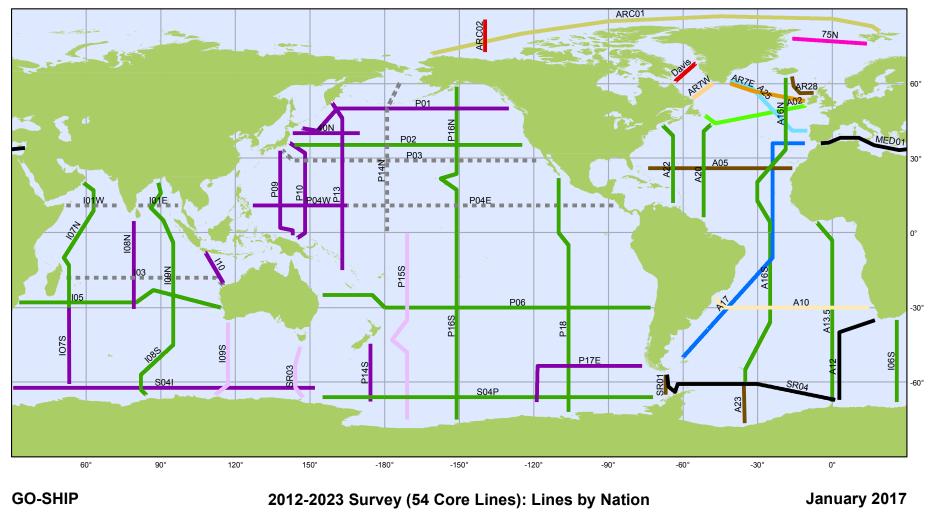
- Improving modelling and data assimilation
- Biogeochemical and ecosystem observations (Beyond pCO₂, what?)

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Biogeochemistry Task Team

- Adrienne Sutton (Co-Chair), NOAA Pacific Marine Environmental Lab, USA
- Pete Strutton (Co-Chair), University of Tasmania, Institute for Marine and Antarctic Studies, Australia
- Fei Chai, University of Maine, USA
- Francisco Chavez, Monterey Bay Aquarium Research Institute, USA
- Dick Feely, NOAA Pacific Marine Environmental Lab, USA
- Masao Ishii, Japanese Meteorological Agency, Japan
- Kitack Lee, Pohang University of Science and Technology, South Korea
- Akihiko Murata, Japan Agency for Marine-Earth Science and Technology, Japan
- Haili Wang, Xiamen University, China



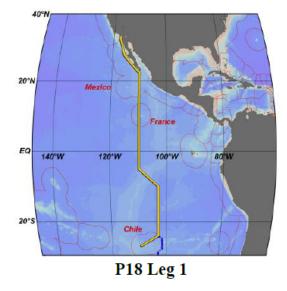


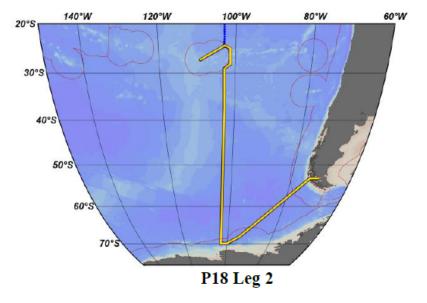


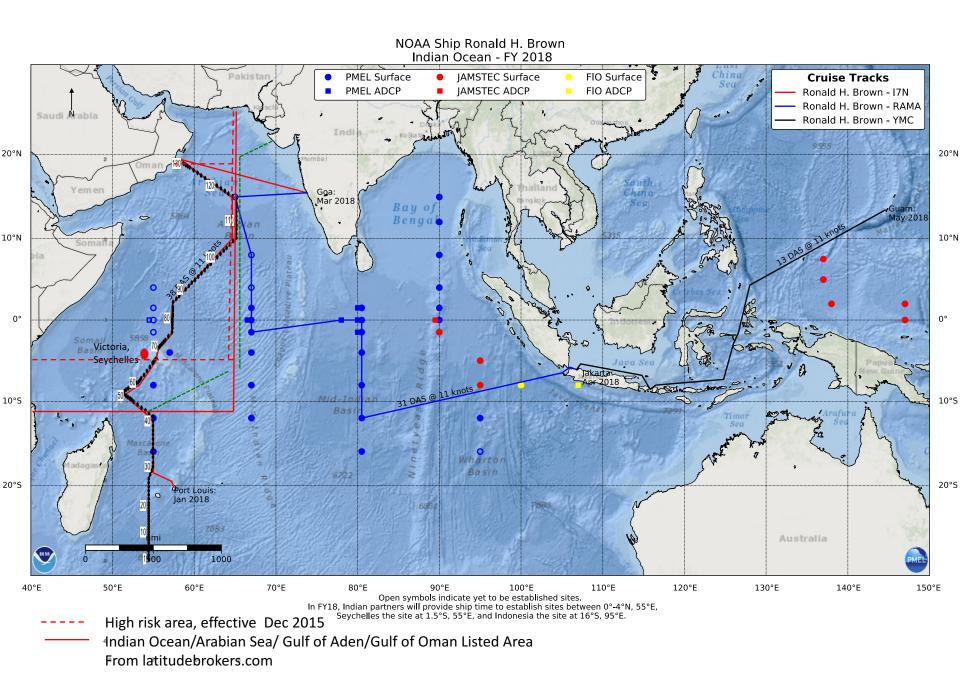


Project Summary

P18	
33RO20161119	
Brendan Carter	
Annie Bourbonnais	
Rolf Sonnerup	
Sarah Purkey	
11/19/2016 to 12/24/2016	
12/30/2016 to 02/03/2017	
Leg 1: San Diego, CA, USA to Hanga Roa, Chile	
Leg 2: Hanga Roa, Chile to Punta Arenas, Chile	
115 on leg 1 and 96 on leg 2 on P18 line with	
2 SOCCOM float calibration stations	
29 floats and 20 drifters	n di ta Sana Ala 🤉 🦾 Sana K
	33RO20161119 Brendan Carter Annie Bourbonnais Rolf Sonnerup Sarah Purkey 11/19/2016 to 12/24/2016 12/30/2016 to 02/03/2017 Leg 1: San Diego, CA, USA to Hanga Roa, Chile Leg 2: Hanga Roa, Chile to Punta Arenas, Chile 115 on leg 1 and 96 on leg 2 on P18 line with 2 SOCCOM float calibration stations







NOAA OCEAN OBSERVING AND MONITORING DIVISION EXPERT REVIEW PANELS

- Surface Ocean CO₂ Observing Program
- > NOAA EXpendable BathyThermograph (XBT) Network

REVIEW GOALS

- Determine Program progress, assess changes in goals and objectives, and addressing approaches, issues, and challenges in accomplishing those goals
- Increase awareness and scope of understanding by the Ocean Observing and Monitoring Division (OOMD) of the objectives, accomplishments, and challenges of the Programs
- Determine the value of the Programs as a contribution to broader observing, modeling, and analysis efforts within NOAA, nationally and Internationally
- Inform strategic management decisions regarding the future of the Program within OOMD, including its alignment with OOMD and NOAA priorities





Search

United States Carbon Cycle Science Program

An Interagency Partnership

Providing a coordinated & focused scientific strategy for conducting federal carbon cycle research

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National Academies Committee to Review SOCCR-2: Comment Period

May 15, 2017 *Excerpts cross-posted from http://dels.nas.edu/Study-In-Progress*

Review of the Second State of the Carbon Cycle Special Report (SOCCR-2)

The National Academy of Sciences announced the selected nominees appointed to serve on the Committee to review SOCCR-2.

View or comment on the Committee

Statement of Task

A new ad hoc Committee of the Academies will conduct an independent review of the Second State of the Carbon Cycle (SOCCR-2) report, which will be available in early to mid-2017. The committee will conduct this review concurrent with the public review period for the SOCCR-2 Report and produce a report.