

Implementation of MarONet for support of PACE Vicarious Calibration

PI: Kenneth Voss, University of Miami

Objective

Our goals are to prove the suitability and applicability of the MarONet system for use as the primary OCI/PACE Vicarious Calibration data source.

Develop an ocean color vicarious calibration site in Perth, Australia.

Provide Vicarious Calibration data to the PACE science team, upon the launch of PACE to quickly and accurately calibrate the OCI instrument on the PACE platform.



This proposal will develop the MarONet site, which can be combined with the MOBY site in Hawaii, and possibly the Copernicus site in the Mediterranean to form a network of three complimentary vicarious calibration sites.

Approach

We will build up two MarONet optical buoys and do a complete characterization/calibration of the optical systems.

Deploy these buoys in Hawaii for a 6 month testing period.

Develop an additional field site off of Perth Australia

Field these MarONet optical buoys at this field site, and provide operational vicarious calibration data to the PACE mission.

Co-Is/Partners: B. C. Johnson, M. Yarbrough, A. Gleason, M. Feinholz, D. Antoine

Key Milestones

Start project	08/19
 Build MarONet instrument 1 and 2 	02/20
Complete testing of MarONet1 and MarONet2	08/20
 Develop Perth Vicarious Calibration site 	08/21
 Deploy MarONet1 at Perth site 	08/21
 Swap MarONet2 for MarONet1 at Perth site 	02/22
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• Continue operation with 6 month deployment schedule until end of project.

