

DMAC-Webpage Subsystem

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LONG-TERM GOALS

CariCOOS DMAC long-term goals are aligned with the stated IOOS DMAC Mission: “To promote broad access to and use of ocean and coastal data for the benefit of stakeholders, NOAA, and other IOOC agencies” (IOOS DMAC Vision Document Draft as of March 3, 2016). Our regional mandate makes us the stewards of ocean observations in the US-Caribbean-EEZ while our unique geographical location allows us to look beyond the US-EEZ and seek the additional long-term mission/goal of providing a leadership DMAC role in the international Caribbean domain. Our new role in NOAA as the Caribbean Regional Information Coordination Entity, or RICE, formalizes our status among non-federal observing organizations who are recognized as meeting federal standards for data gathering and management.

MILESTONES / OBJECTIVES

The level of granularity of the Status of Milestones towards the Milestones/Objectives herein considered matches the CARICOOS 2019_2020_MILESTONES.pdf document.

As a behind the scenes technical group our objectives are to keep CARICOOS running as a full fledged member of the IOOS RA community and to discharge our DMAC responsibility towards the CARICOOS region to the best of our abilities.

Status of Milestones

1. Add ROMS and FVCOM model output to CARICOOS ERDDAP as these models become operational
 - ROMS is not operational at the moment. Development of an operational version is being performed by Dr. Juan Gonzalez. We have aggregated historical ROMS output from previous versions and this is currently being served in our ERDDAP exclusively for testing purposes. We are ready to proceed with new operational ROMS output as soon as it becomes available.
 - A near-operational version of FVCOM is currently executing in our local servers. We are expecting to hear from the FVCOM modeling team before we start serving operational model output in THREDDS and ERDDAP.
2. Attend IOOS DMAC meeting
 - Jose Torres and Jorge Capella attended the 2019 DMAC Meeting during April 30 - May 2.

3. Develop a data portal to provide real-time acidification data collected by LaParguera Map CO2 buoy and derived ecosystem metabolic rates
 - A mockup data portal that mimics the CARICOOS coastal buoy portals was developed by the Candela Creative Group with technical assistance from Melissa Melendez, who is a doctoral candidate at UNH, and from the DMAC group.
 - We need to push the development of this product more effectively during the next semi-annual performance period
4. Hosting of CARICOOS interns
 - Jose Santiago and Carlos Laboy become the two summer interns assigned to DMAC during the summer (June-July). We used this opportunity to develop local expertise with THREDDS and ERDDAP Docker technology (a major topic during the DMAC Meeting), which is something not found in a traditional Computer Science curriculum.
 - Upon completion of his summer internship Mr. Jose Santiago was retained by CARICOOS under Work-Study status and assigned to the DMAC-Biological Data initiative (see item 5 on this list).
5. Review, process and enter regional biological dataset into OBIS/MBON. Supported when Supplemental Funding as it becomes available. May undergo a training phase for CARICOOS staff and possibly a contractor.
 - See the corresponding **OBIS-MBON: A DMAC Initiative** Progress Report for details
6. RICE DMAC Review
 - Pending
7. On-going, continuous or recurrent DMAC/IT tasks
 - Compliance with IOOS DMAC metadata, file and data discovery standards and checks
 - Continue CARICOOS DMAC and Regional DAC efforts as detailed in the RICE DMS Plan
 - Continue operating DMAC and computational infrastructure
 - Historic data archival
 - Participated in UPR-AWS workshop on storage strategies, and established local AWS contacts
 - Maintain and enhance CARICOOS website
 - Host and website capacity upgrades to provide for anticipated growth
 - Maintain the HPC infrastructure
 - HPC models soon to become the primary operational versions
 - NetCDF output generation has been activated for SWAN and WRF
 - Technical transfer to in-house IT, improvement and debugging of our web page

MAJOR OUTCOMES

- Started the processing of our first regional biological dataset (see separate report)

RELATED PROJECTS

None.

WORK PLAN FOR UPCOMING PERFORMANCE PERIOD (December 1, 2019 – May 31, 2020)

We plan to focus on those milestone/objectives that have been delayed:

- Continue/complete the processing of the PRCRMP biological dataset
- The MAP CO2 portal needs to be finished
- The RICE DMAC Review is still pending

PUBLICATIONS & PRODUCTS

No publications, but several product updates.