



Global Ocean Acidification
Observing Network

GOA-ON WEBINAR SERIES



Arctic-African collaborative OA research on the Canary Current and Benguela Current upwelling systems

Thursday, 10 June 2021 at 16:00 Central Africa Time (UTC +2).

Register here: <https://attendee.gotowebinar.com/rt/3237564080229696528>

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Description: The Canary Current and the Benguela Current upwelling systems support significant local and international fish resources along the west coast of Africa. These fisheries contribute to the region's economy and provide important food and employment opportunities to coastal communities. In 2017, the 30-year long Ecosystem Assessment for Fisheries (EAF) Nansen Program, which is supported by the FAO and the Norwegian Ministry of Foreign Affairs, initiated studies on ocean acidification in these upwelling systems. The Canary Current Large Marine Ecosystem survey was performed between May 2017 and December 2019 aboard the R/V Dr. Fridtjof Nansen. It consisted of 110 stations situated at twenty seven sections perpendicular from the coast. Total alkalinity (TA) and pH data were collected using potentiometric titration and spectrophotometric pH measurements, respectively. The other parameters describing the carbonate chemistry and ocean acidification state were derived from TA and pH using the CO2SYS calculation program. Large variability along the coast was observed, connected to salinity changes, primary production, temperature, and biological processes. Results from a similar study focused on the Benguela Current upwelling system will also be shared during this webinar.

