

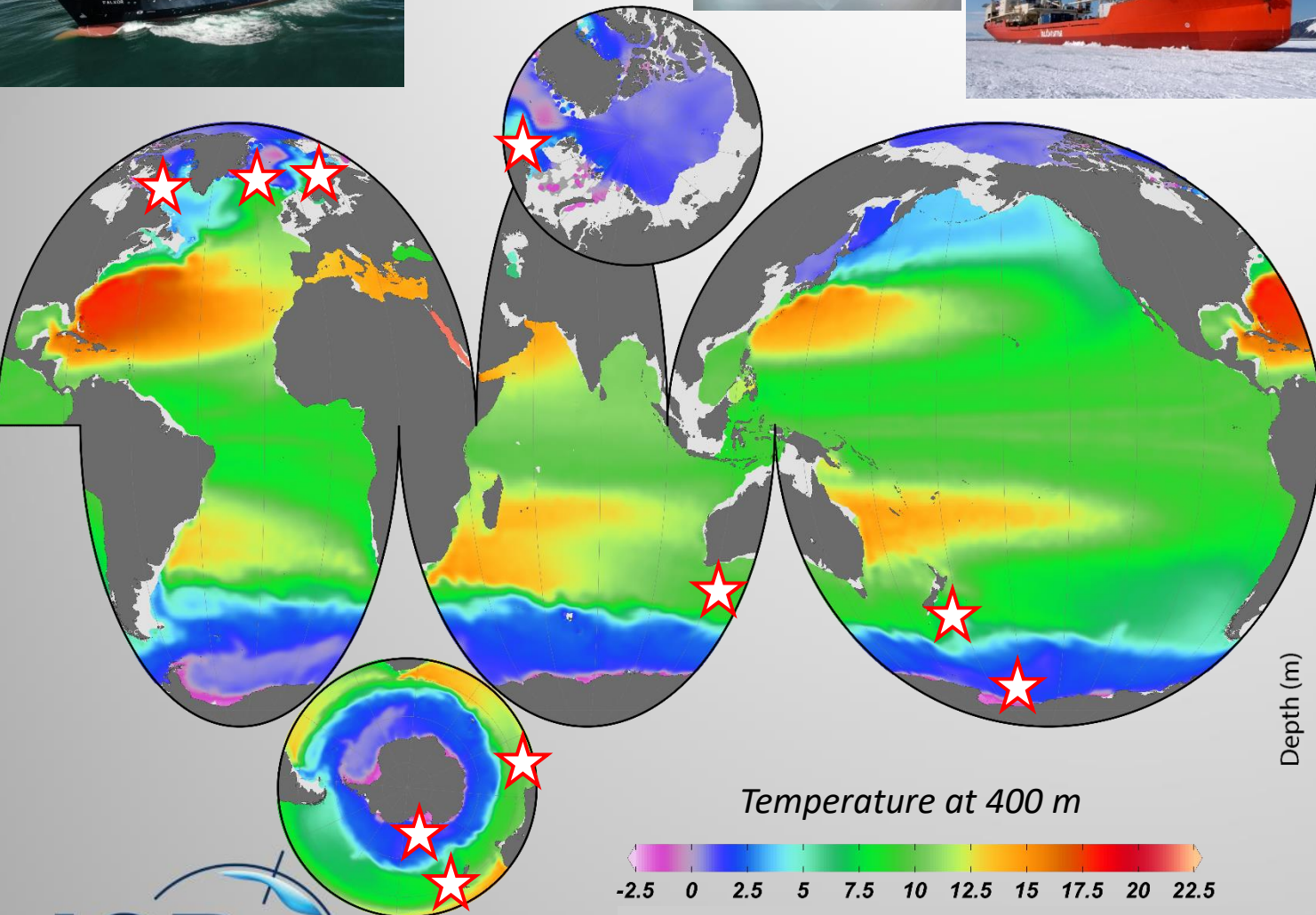
I° CONVEGNO ISTITUTO DI SCIENZE POLARI

Cold-water corals from the polar regions: reliable archives to reconstruct changes of water mass properties in the past

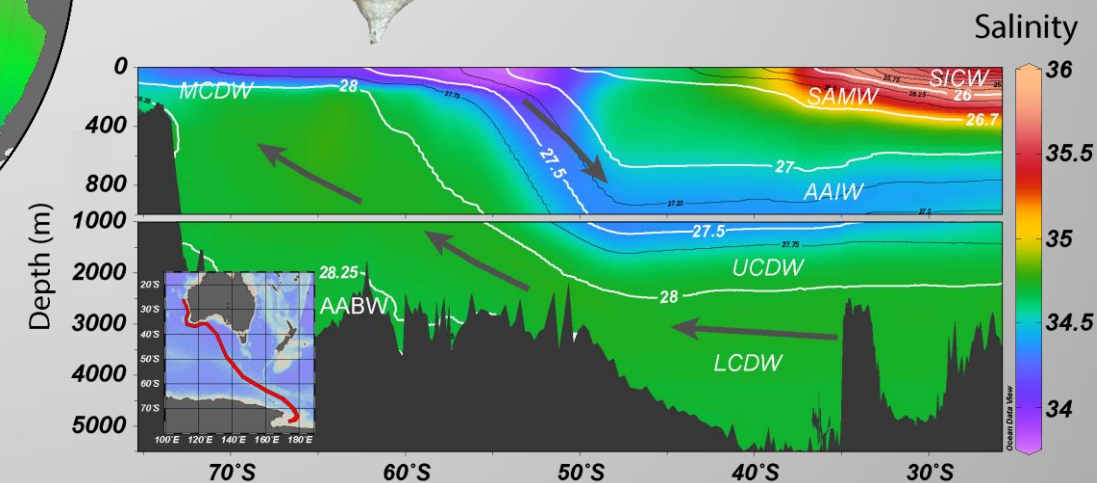
Montagna Paolo, McCulloch Malcolm, Trotter Julie, Douville Eric, Frank Norbert, Remia Alessandro, Schiaparelli Stefano, Mazzoli Claudio, Taviani Marco



Roma, 22 – 24 settembre 2021

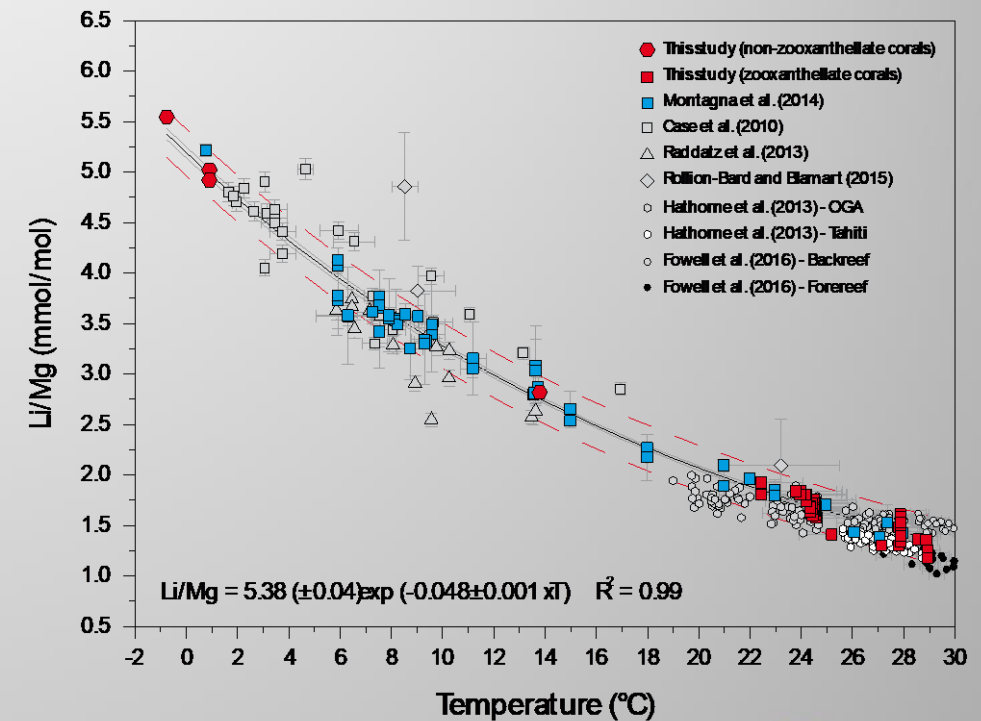
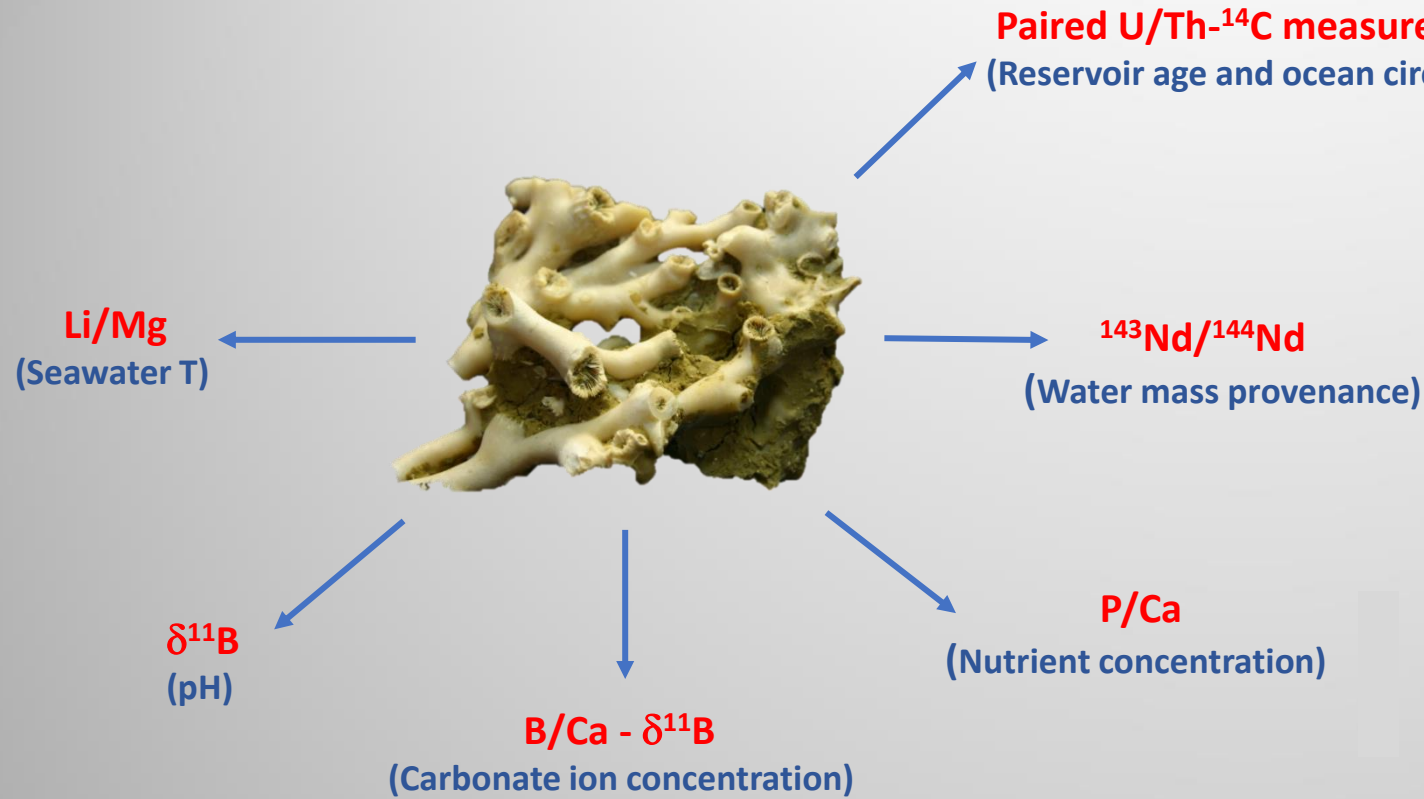


Flabellum coral from the Ross Sea

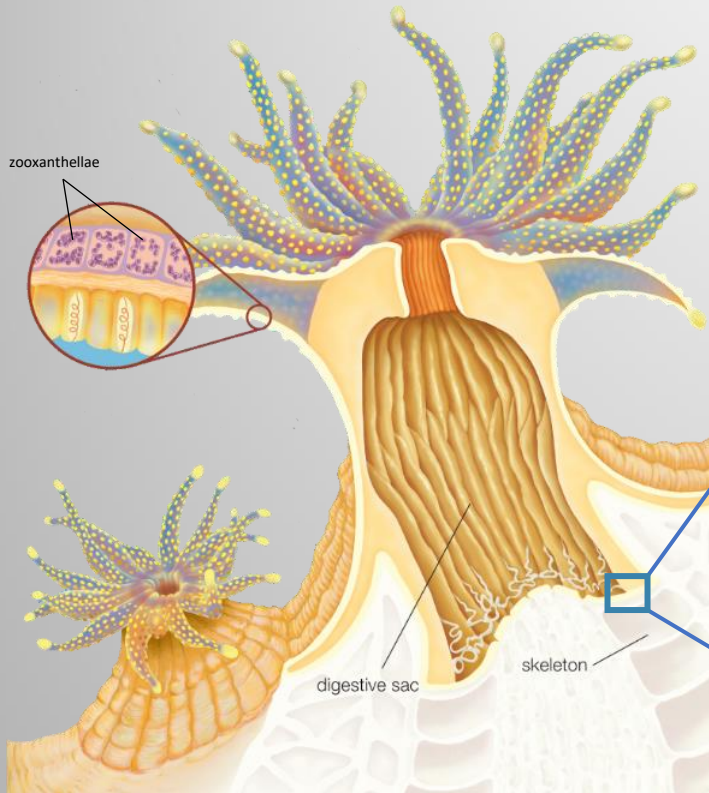


CORAL GEOCHEMICAL PROXIES

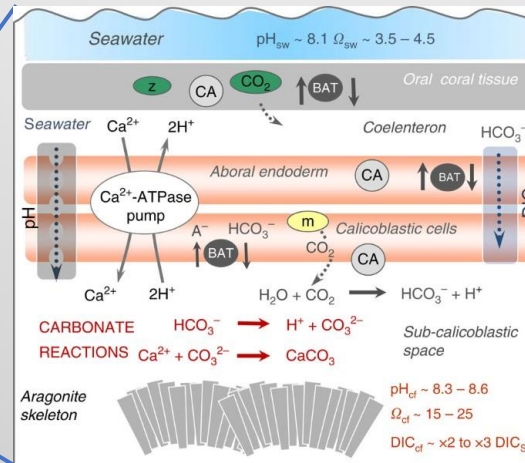
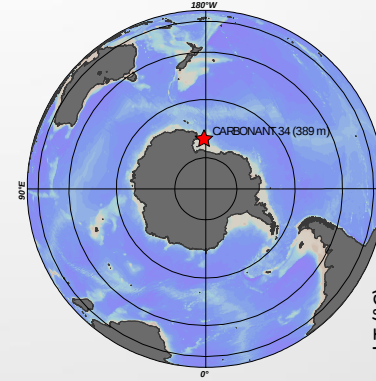
The great advantage of working with corals is the large suite of available proxies



Biom mineralization & resilience to climate change



MAIN RESEARCH TOPICS



B/Ca - $\delta^{11}\text{B}$
(pH and Carbonate ion concentration)



**Saturation state of aragonite
(calcification rate)**

Paleoceanographic reconstructions & Climate modeling

