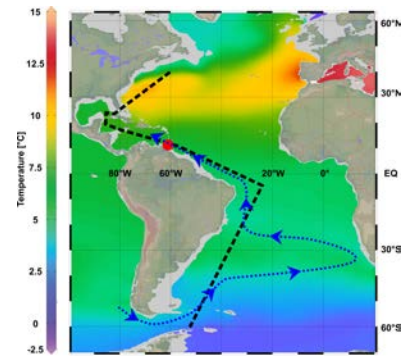


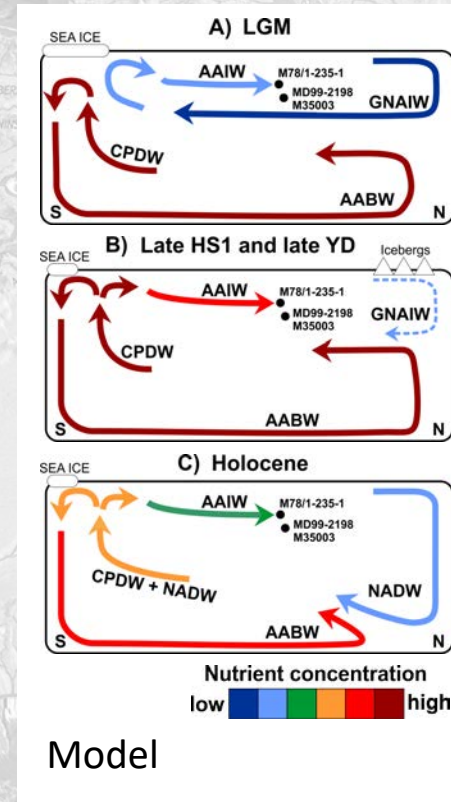
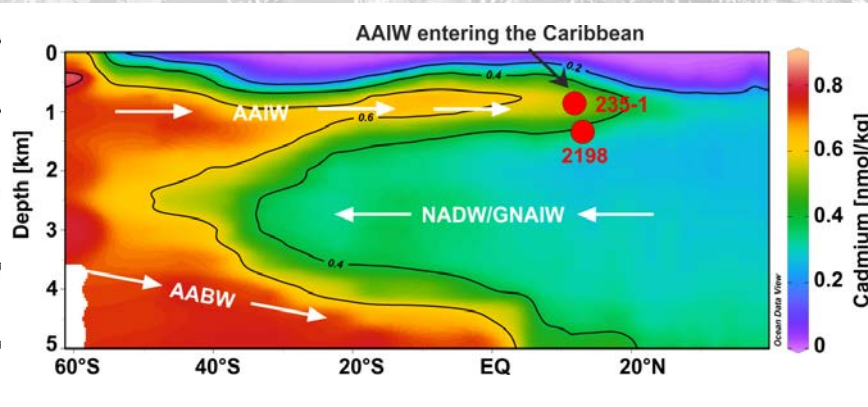
Intermediate water variability in the tropical West-Atlantic during glacial to deglacial climate change

Dirk Nürnberg, GEOMAR Kiel (PI)

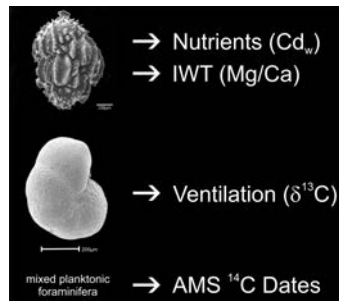
David Poggemann, Stefan Reißig, Tabitha Riff, Ed Hathorne



Study area



Model



Approach

Research Topics

Did AMOC perturbations alter the intermediate water mass distribution during the last glacial and deglaciation?

To what extent did the oceanic re-organisation affect the (geo-)chemical properties in intermediate water masses?

What role do intermediate water masses play in a warming/cooling climate system?

Poggemann, D., Hathorne, E., Nürnberg, D., Frank, M., Bruhn, I., Reissig, S., Bahr, A. (2017) Rapid Deglacial Injection of Nutrients into the Atlantic via Antarctic Intermediate Water. *EPSL* 463, 118–126, [dx.doi.org/10.1016/j.epsl.2017.01.030](https://doi.org/10.1016/j.epsl.2017.01.030).
 Poggemann D.-W., Nürnberg D., Hathorne E. C., Frank M., Rath W., Reißig S., Bahr A. (2018) Deglacial Heat Uptake by the Southern Ocean and Rapid Northward Redistribution via Antarctic Intermediate Water. *Paleoceanography and Paleoclimatology*, <https://doi.org/10.1029/2017PA003284>.