## Distribution and calcification depth of living planktonic foraminifera in the Caribbean Sea

Principle investigators: Collaborators:

Fundina:

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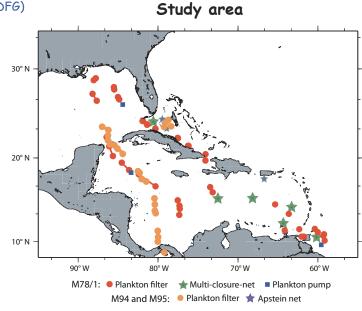
C. Hübscher, C. Betzler (Univ. Hamburg) (2011-2015) D. Nürnberg

A. Jentzen

Motivation: For paleoenvironmental reconstructions studies of faunal assemblages and geochemical analysis of planktonic foraminifera are important proxies. The aim of this study is to investigate the habitat of living planktonic foraminifera in the water column and to characterize the shell chemistry in relation to the ambient seawater, to improve their application.

## Important species





## Main subject:

- ▶ Regional and seasonal influence on population density and species composition.
- ▶ Habitat distribution of single species in the water column.
- $\blacktriangleright$  Determination of calcification depths using stable  $\delta^{18}O$ composition and Mg/Ca ratio.
- ► Relation between stable  $\delta^{18}$ O water-values and  $\delta^{18}$ O of foraminiferal calcite.