

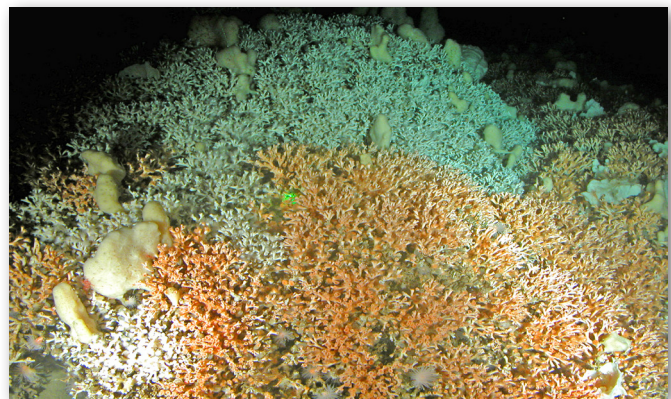
Geowissenschaftliches Kolloquium

Cold water coral reefs in the Atlantic

Donnerstag, 8. Januar 2014 - 16.15 Uhr

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Cold water corals (CWC) are prominent archives for intermediate water mass dynamics. They occur in different settings and water depths along the continental margin. However, the analysis of physical and hydrochemical water mass properties from CWC bearing locations in the NE Atlantic has revealed distinctive patterns. The presented compilation of data confirms the proposed control of temperature as well as the control of sea-water density on CWC growth. We found that DIC and the density of the sea water have a considerable influence on CWC in the investigated locations. Among the constituents of the carbonate system, DIC of the ambient seawater seems to be one of the most important parameters indicating healthy, pristine, and large scale occurrence of CWC.



Christian Dullo is professor for Paleoceanography at the GEOMAR Helmholtz Centre for Ocean Research Kiel. He studied Geology and Paleontology at the University of Erlangen where he received his PhD in 1982. He completed his habilitation in 1987 and was appointed professor for Paleoceanography at GEOMAR in 1991. One of his research interests focuses on the reconstruction of intermediate water mass dynamics favouring the growth of cold water corals. His group developed small scale lander systems which record high resolution time series of physical oceanographic parameters. In 2002 he was awarded the Leibniz Price of the DFG and since 2004 he is member of the national academy Leopoldina.

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