Geophysical Research Abstracts, Vol. 7, 06401, 2005 SRef-ID: 1607-7962/gra/EGU05-A-06401 © European Geosciences Union 2005



The structure and transport of the North Icelandic Irminger Current

S. Jonsson (1,2), H. Valdimarsson (1)

(1) Marine Research Institute, Skulagata 4, 101 Reykjavik, Iceland (2) University of Akureyri, Borgir v/Nordurslod, 600 Akureyri, Iceland, (steing@unak.is/Fax: +354-4630998)

The inflow of Atlantic Water with the North Icelandic Irminger Current to the Nordic Seas west of Iceland is important for the climatic and biological conditions over the north Icelandic shelf. Since August 1999 the Marine Research Institute in Iceland has been monitoring the flow of water on the north Icelandic shelf at the Hornbanki section at 21°35'W, using 5 Aanderaa current meters on three moorings. The section has been occupied with CTD four times annually. Since 2001 the current on the section has been measured annually in November each year. Since 2002 the data have been collected as a part of the EU project MOEN. Those data will be used to describe the three dimensional structure of the current as well as its temporal behaviour. Estimates of the flow of AW and the associated heat transport into the Nordic Seas will be given as well as the seasonal variation.