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| Station Name: |
| Irminger Sea, IRM |

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| Type of Station (moored / ship-based) and Location (geographic region / latitude and longitude coordinates): |
| Ship-based Northern Irminger Sea, 1000 m depth 64°20'N, 27°57'W |

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| Carbon and biogeochemistry measurements at the station (indicate the frequency of observations, the year measurements began, and if they are surface / full water column, etc.): |
| TCO ₂ , pCO ₂ , O ₂ , phosphate, nitrate, silicate. Quarterly measurements, Feb/March, May, August, Nov. Start surface measurements 1983, full water column from 1993. |

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| Principle Investigators / Contact Points: |
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| Affiliation of this station with national, regional, or global research programs and process studies: |
| National: In station network of quarterly hydrographic observations. Reported in: ICES Report on Ocean Climate, IROC. http://www.ices.dk/marineworld/oceanclimate.asp . In: EU FP7 Integrated Project CARBOOCEAN (Marine carbon sources and sinks assessment) In: EU FP7 Integrated Project EPOCA (European Project on Ocean Acidification) |

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| Web-site or links to other information: |
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| Site Overview: |
| The Irminger Sea (IRM) and Iceland Sea (IS) time series describe variations taking place in two different regions of the high latitude North Atlantic Ocean. IRM represents North Atlantic sub-polar gyre, IS is in Arctic conditions of the Iceland Sea gyre. Both are source regions for NADW and regions of high seasonality and high biological |

productivity.

The time series started in 1983 and extend now over quarter of a century. They record hydrographic variability and associated changes in biogeochemical processes and ocean response to increasing atmospheric CO₂. There are significant differences between the two sites in these responses.