

Supporting Information for "Restratification Structure and Processes in the Irminger Sea"

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Introduction

To validate the time series from the CMEMS reanalysis, we compare them with time series from the LOCO mooring in Figure S1. Values of all properties are very similar in the CMEMS and LOCO time series. In both time series, the salinity has a mid-depth minimum, whereas the temperature and density have monotonously stratified structures. The MLD follows the same temporal trends in both data sets, with local maxima in 2008, 2009 and 2015 observable in both time series. Also, features of individual years such as the salinity and density maximum in the 2010–2011 winter are visible in both the CMEMS and the LOCO data. Thus, we conclude that the CMEMS reanalysis accurately captures the interannual variability of hydrographic properties in the Irminger Sea.

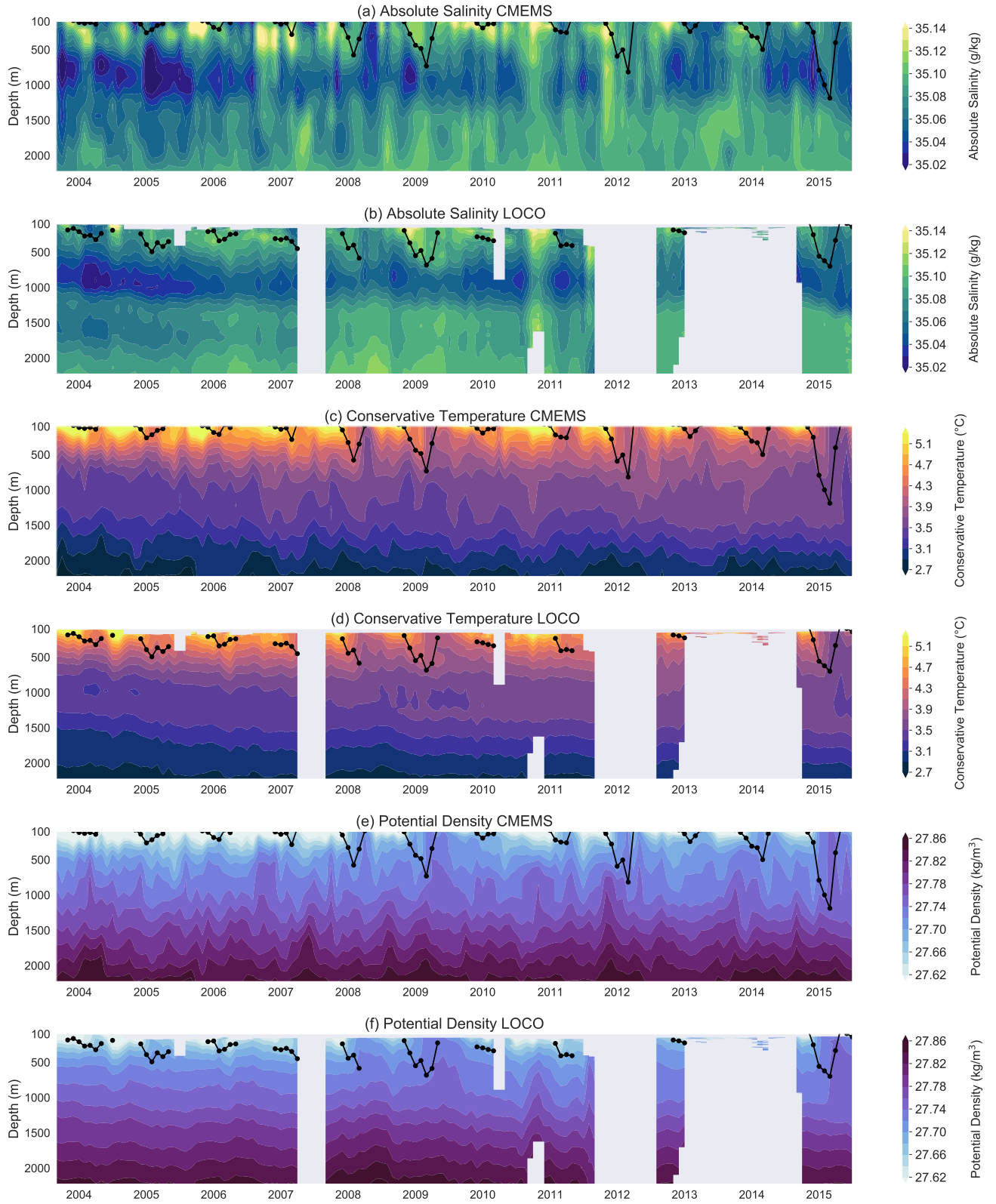


Figure S1. The temporal evolution of profiles of (a)-(b) absolute salinity, (c)-(d) conservative temperature and (e)-(f) potential density at the LOCO mooring. The mixed layer depth is shown in black. Panels (a), (c) and (e) show the data from the CMEMS reanalysis interpolated to the mooring location. Panels (b), (d) and (f) show the data from the LOCO mooring.

July 15, 2022, 8:45am