

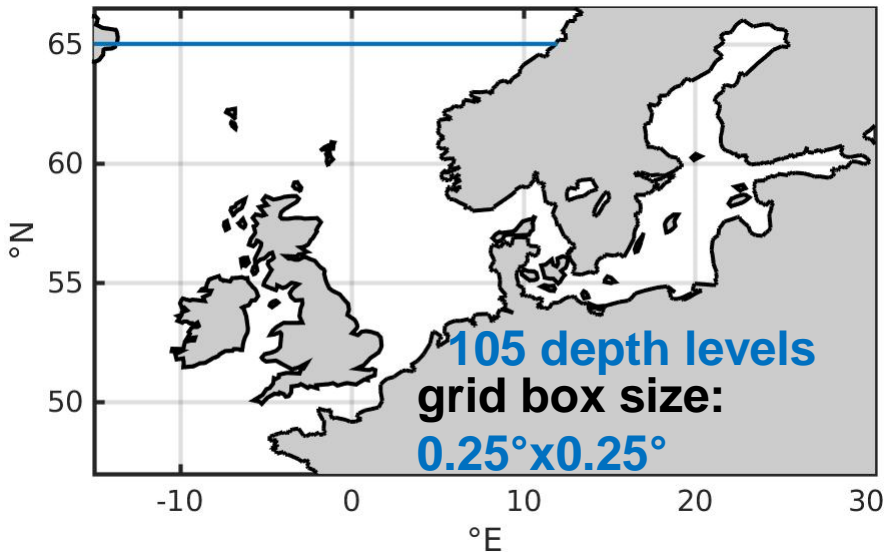


The BALTIC and NORTH SEAS CLIMATOLOGY (BNSC_{hydr}) - a comprehensive, observation- based data product of hydrographic parameters

Iris Hinrichs, Viktor Gouretski

¹ CEN, University of Hamburg, Hamburg, Germany (iris.hinrichs@uni-hamburg.de)

spatial extent and resolutions

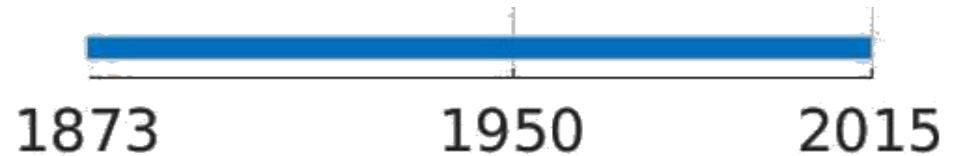


available variables

water temperature

salinity

temporal extent and resolutions



monthly

decadal monthly

annual

**Elaborate Quality Control (QC) of hydrographic data,
following data quality control strategy developed during international
initiative „International Quality Controlled Ocean Database (IquOD*)“**

depth dependant
parameter range
(overall, local
climatological)

**observed depth vs.
digital bathymetry**
(GEBCO**)

QC checks

profile structure
(number of extreme
values, vertical gradient,
spikes, constant values)

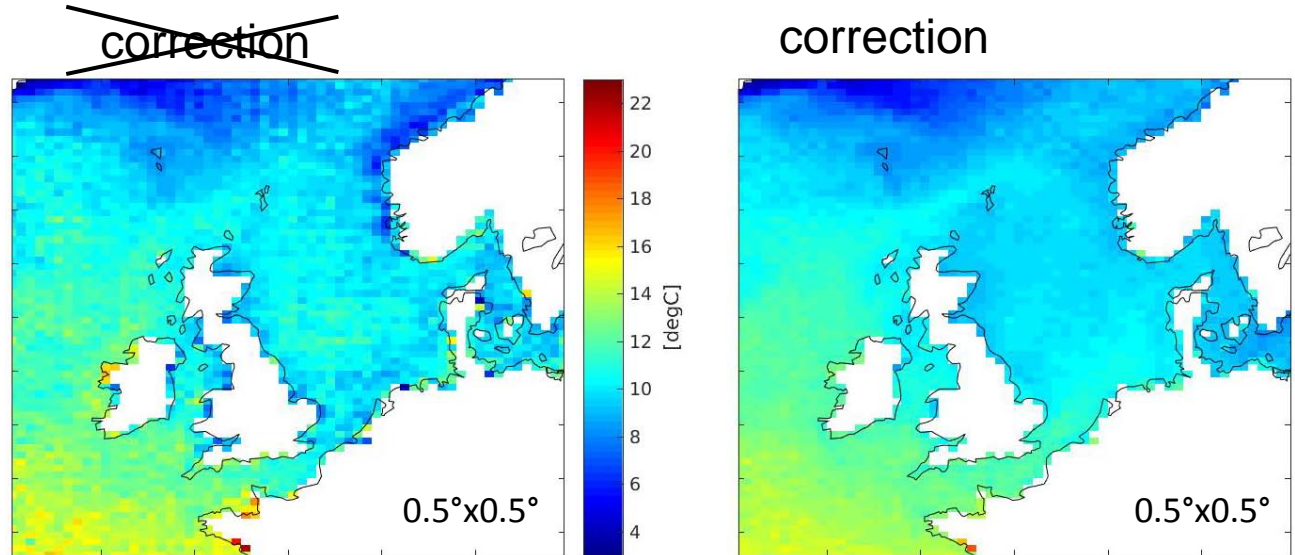
**max. of observed depth
compliant with data
type**

*<http://www.iquod.org/>

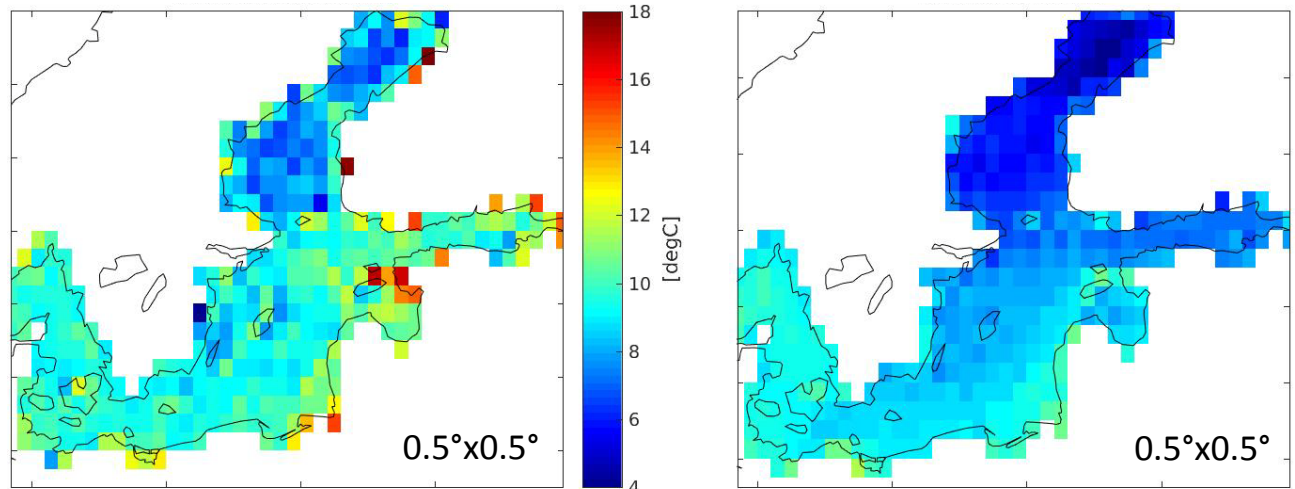
**Weatherall et al., 2015

SST longterm mean (based on annual averages)

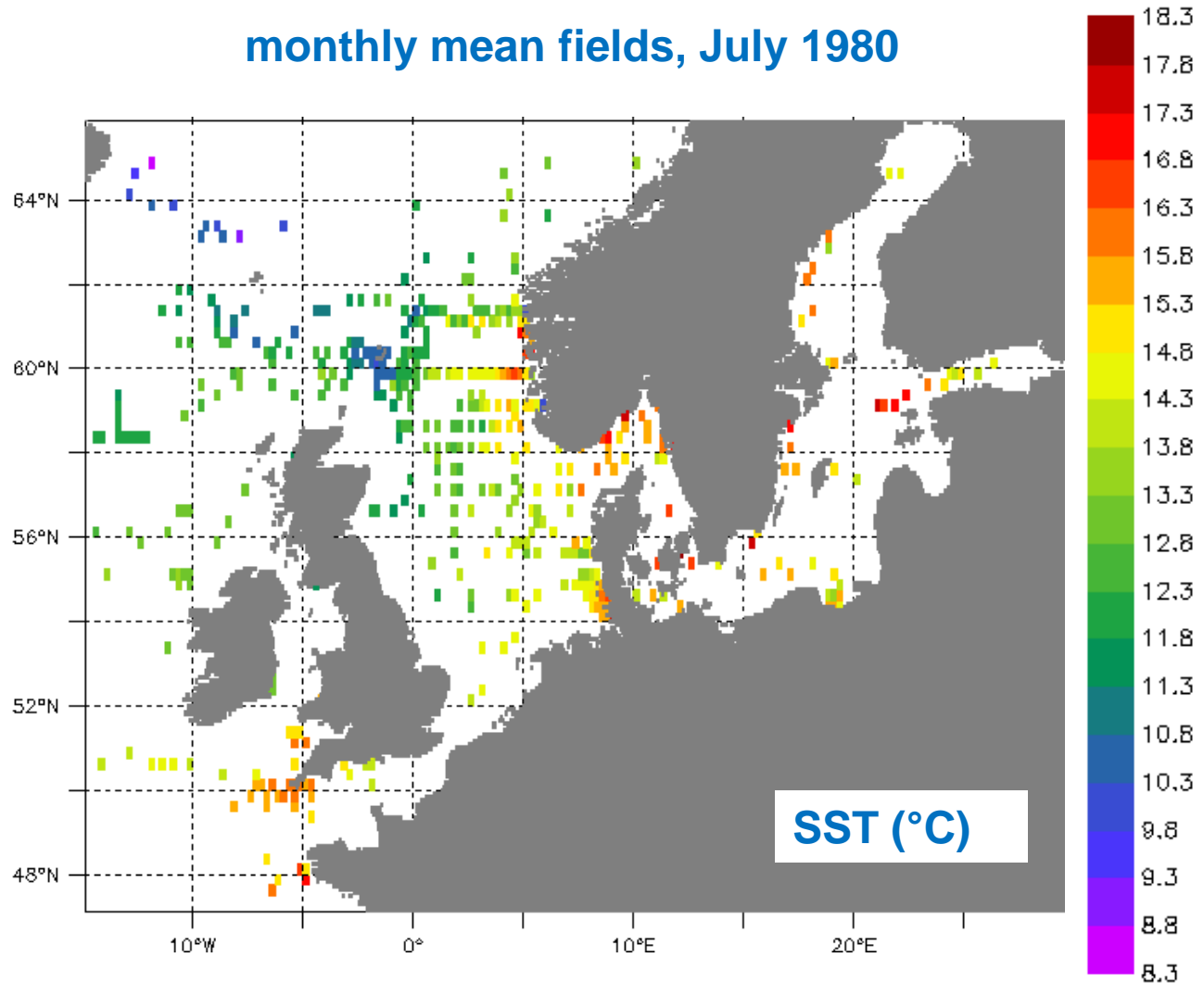
North Sea
(1890-2011)



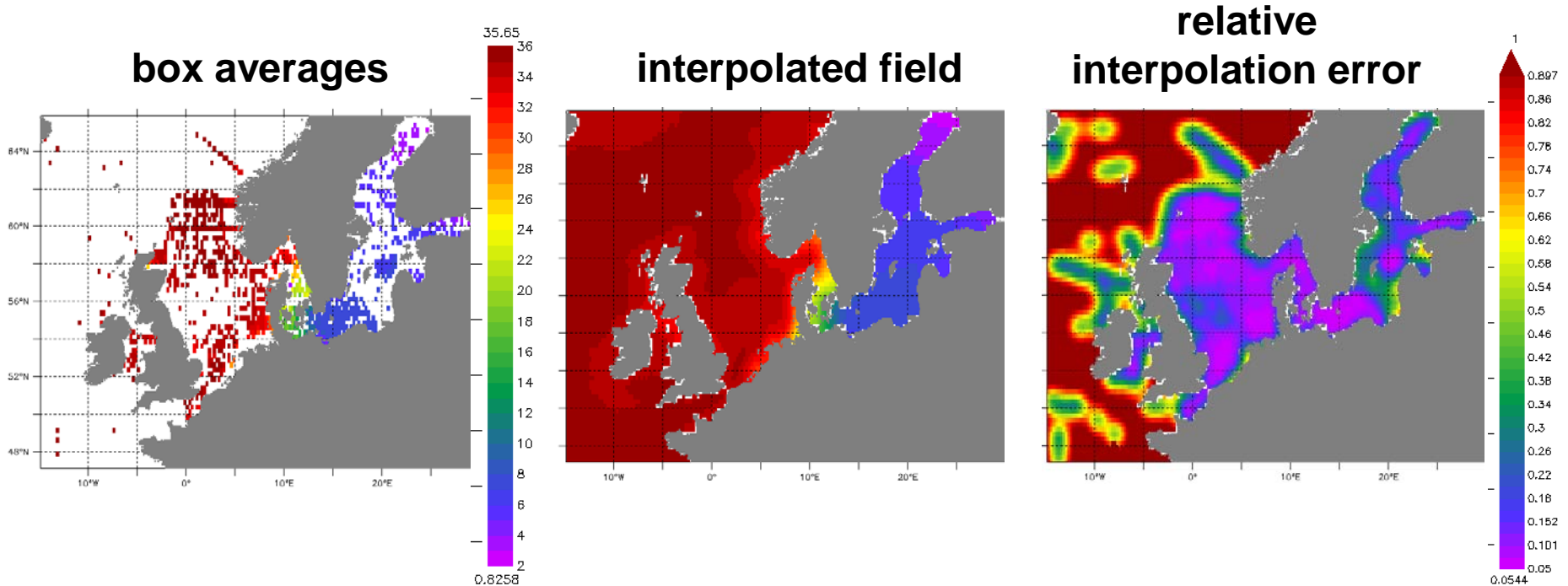
Baltic Sea
(1898-2015)



monthly mean fields, July 1980



decadal monthly mean fields, e.g. 1996-2005,
sea surface salinity, January



Quality controlled profiles

