

Finnish CTD data available
for DMQC

Monitoring cruises

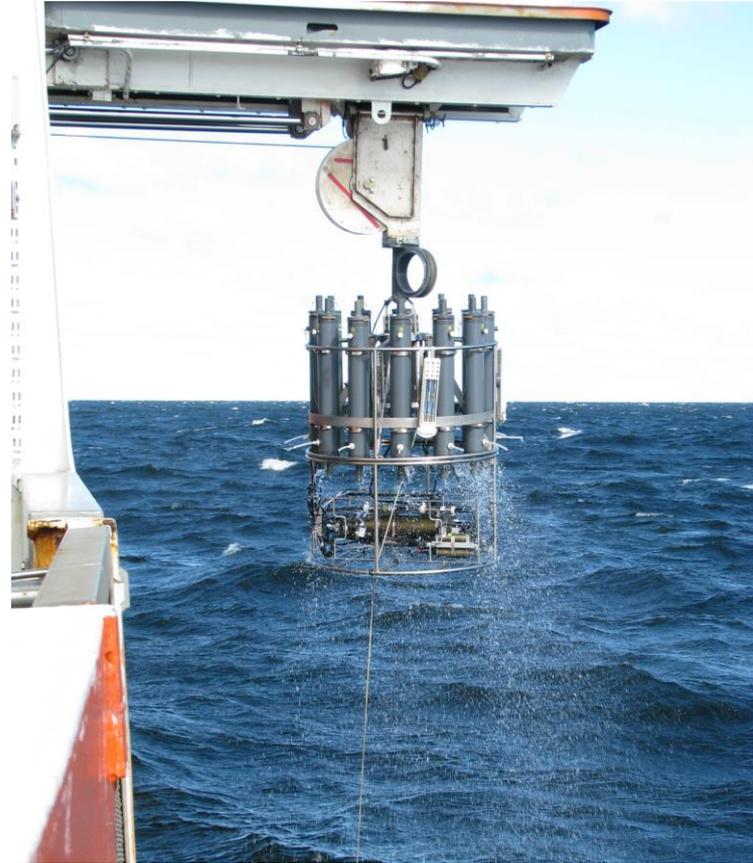
HELCOM Combine monitoring cruises 3-4 per year:

Combine 1 (winter, Jan-Feb)

Spring bloom monitoring (optional): April

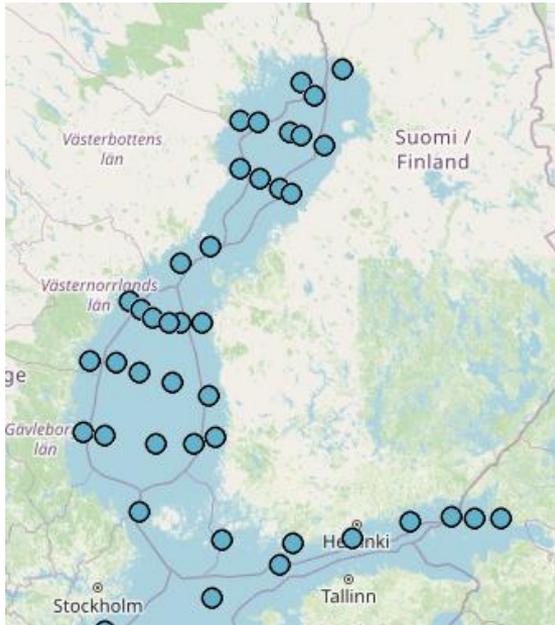
Combine 2 (spring, early summer, May-Jun)

Combine 3 (late summer, Aug)



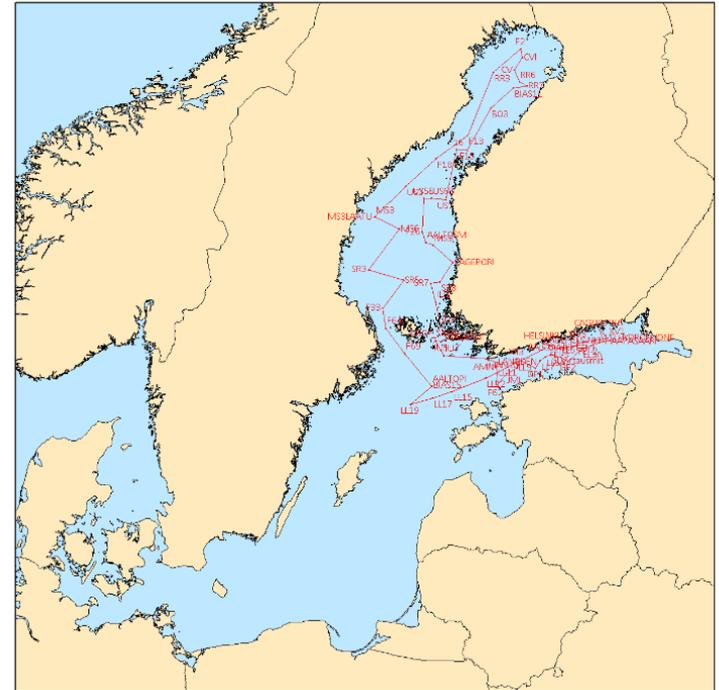
Monitoring cruises

Cover Gulf of Bothnia,
Gulf of Finland and
northern Baltic proper.



In addition to CTD,
also measurements
of nutrients, oxygen,
algal biomass (spring
and summer) etc.

Example of station coverage
from
COMBINE3 2021



Research cruises

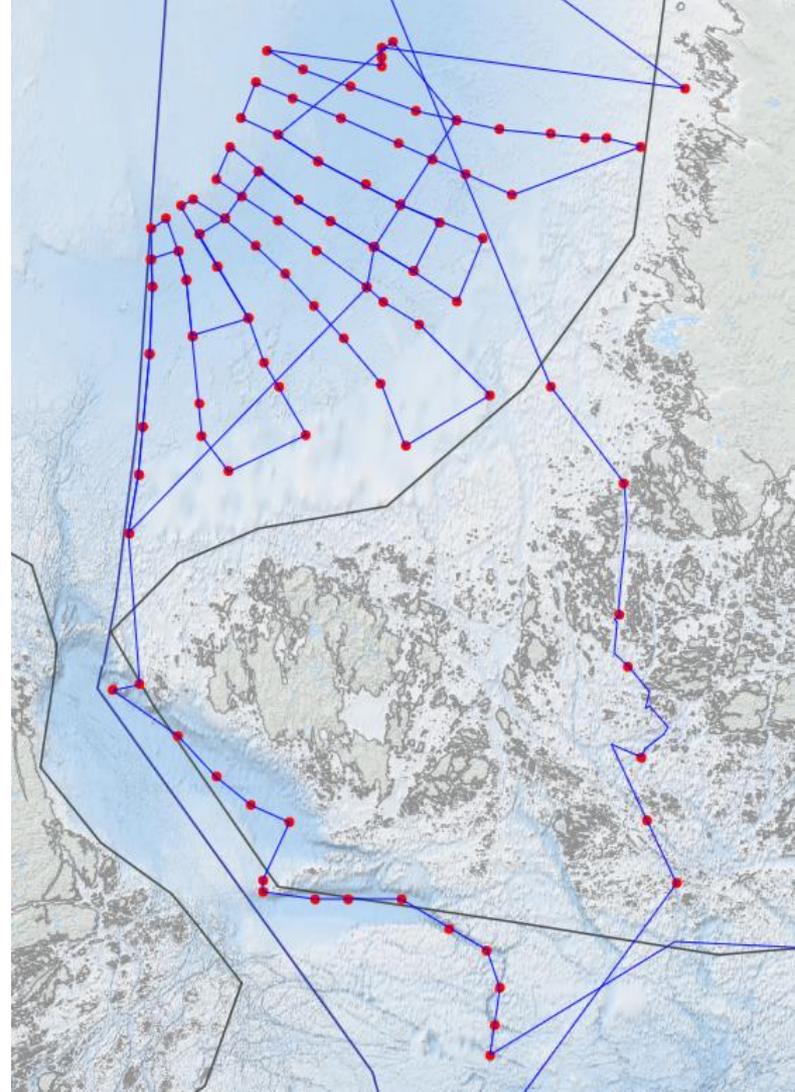
On average 1-2 per year.

CTD measurements typically included

Embargo: max 2 years

From some cruises CTD data released quite soon (after DMQC which takes typically few weeks).

Few cruises have been specifically planned to gather data for Argo and Glider DMQC



Field stations - FINMARI (www.finmari-infrastructure.fi)

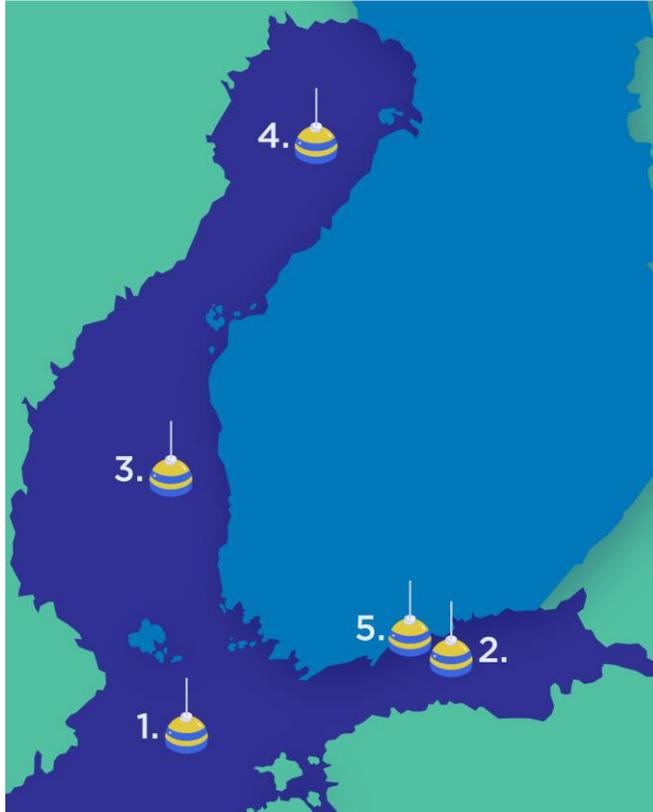
Field stations have profiling buoys.

Intensive monitoring stations - CTD profiles from small vessels few times per month excluding ice season.

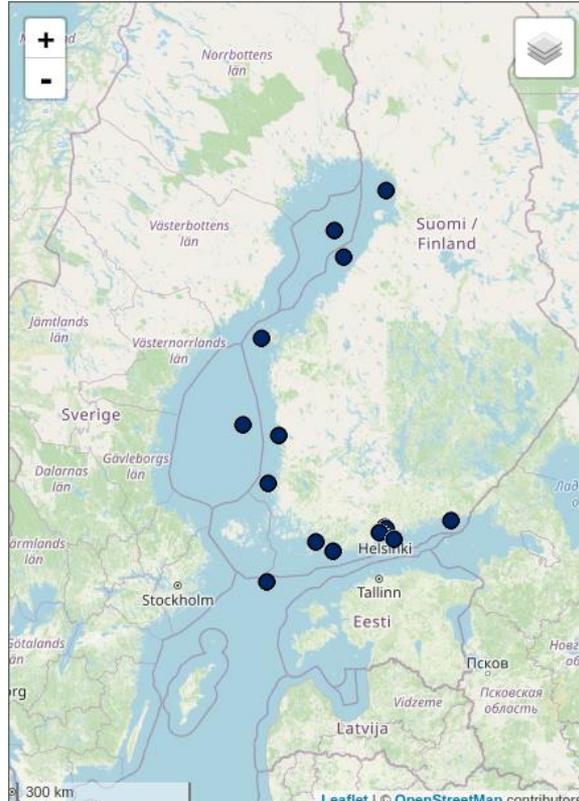


Other observations - mainly SST

Wave buoys measure SST

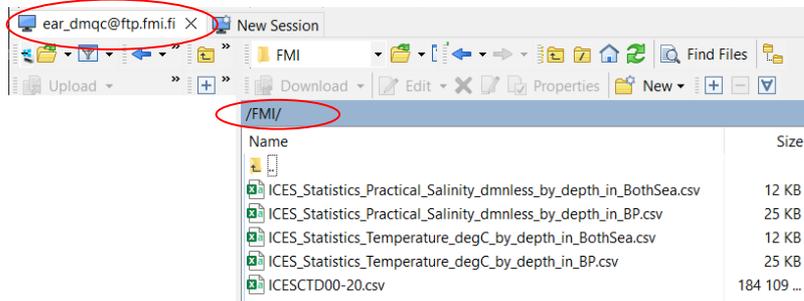


Coastal temperature buoy locations (in addition to wave buoy locations)

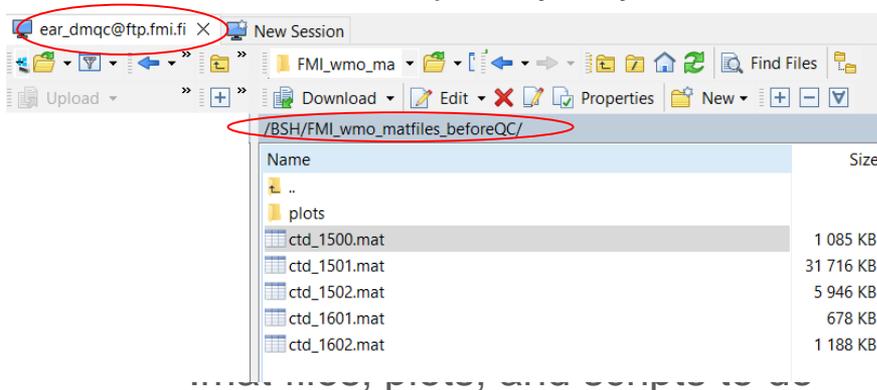


FMI reference dataset in FTP server

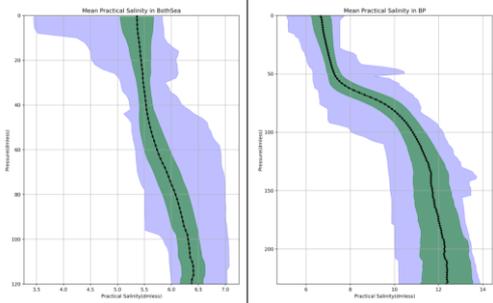
- Climatological dataset
 - Bothnian Sea (BothSea)
 - Baltic Proper (BP)



- Reference dataset
 - Gathered from ICES data
 - Plan to update yearly



- Generated from ICES
 - Raw data: ICESCTD00-20.csv



them.

