



Voice of the Ocean

HAVET GENOM OBSERVATIONER

SweWater Summit, 28 Maj 2026



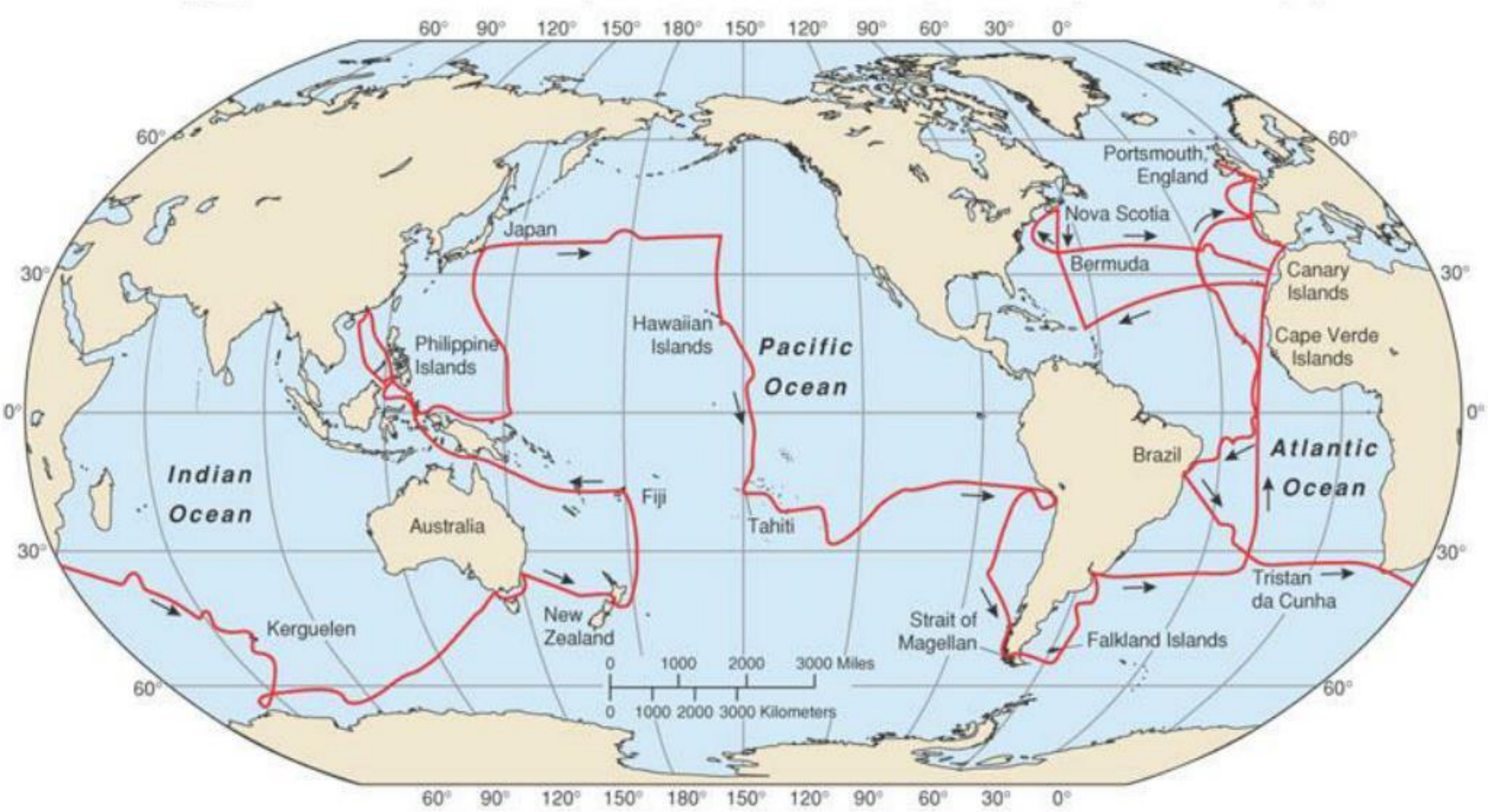




Source : Athelstan Spilhaus, *Atlas of the World with Geophysical Boundaries*, 1991
Cartographie : Clara Dealberto



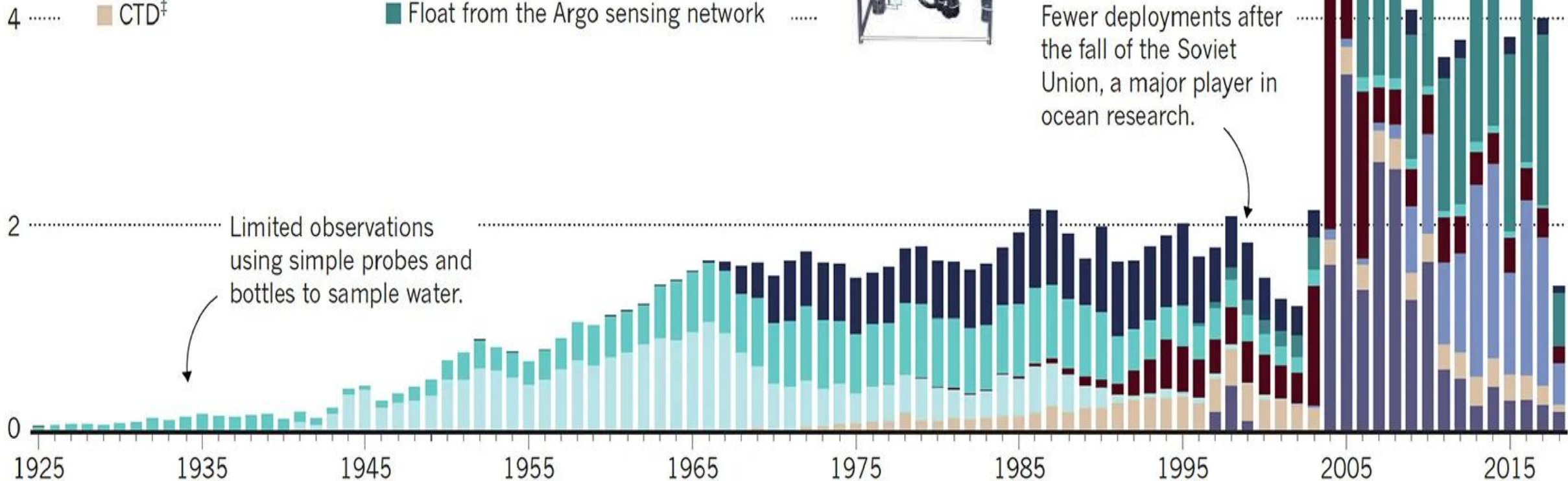




WATCHED WATERS

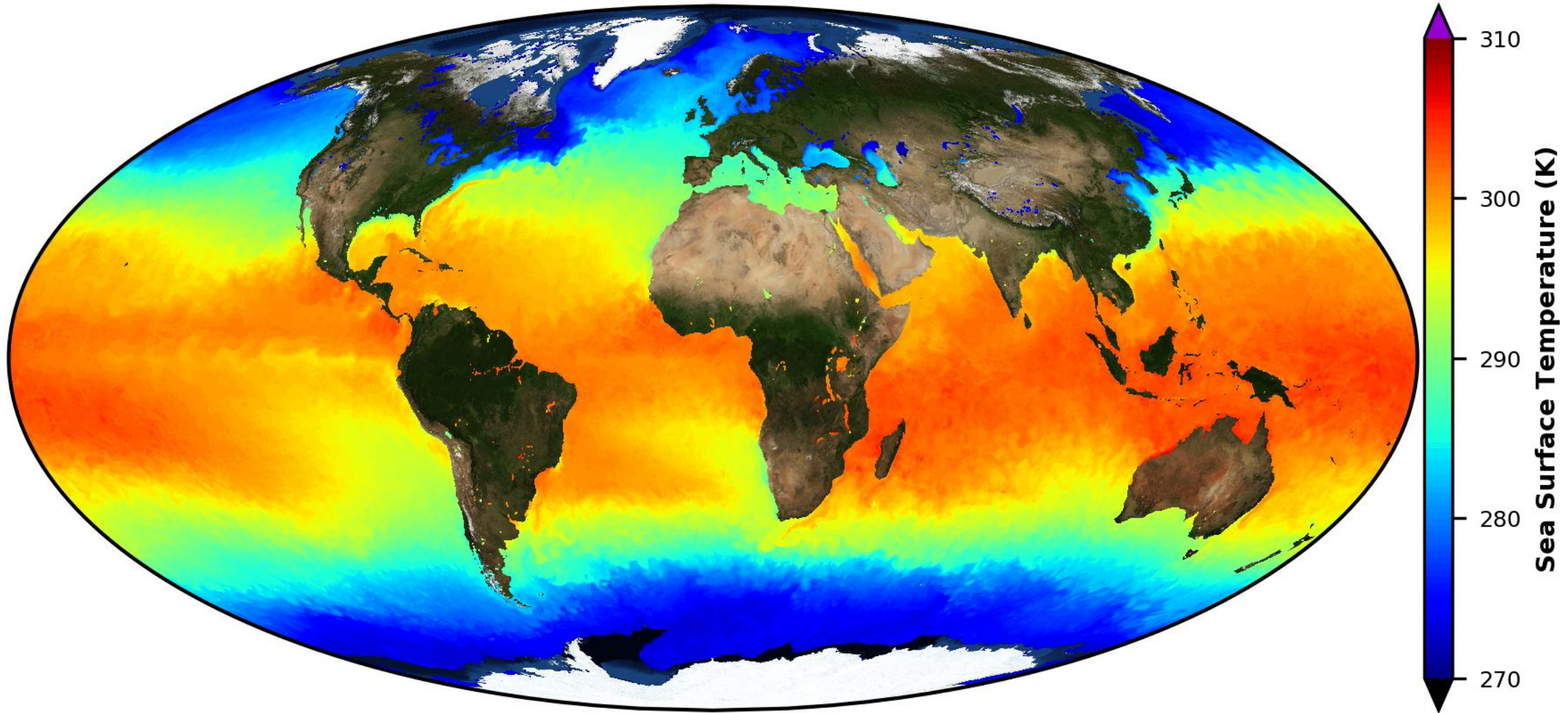
Remote sensors and other instruments are revealing tremendous variability in physical conditions in the world's oceans.

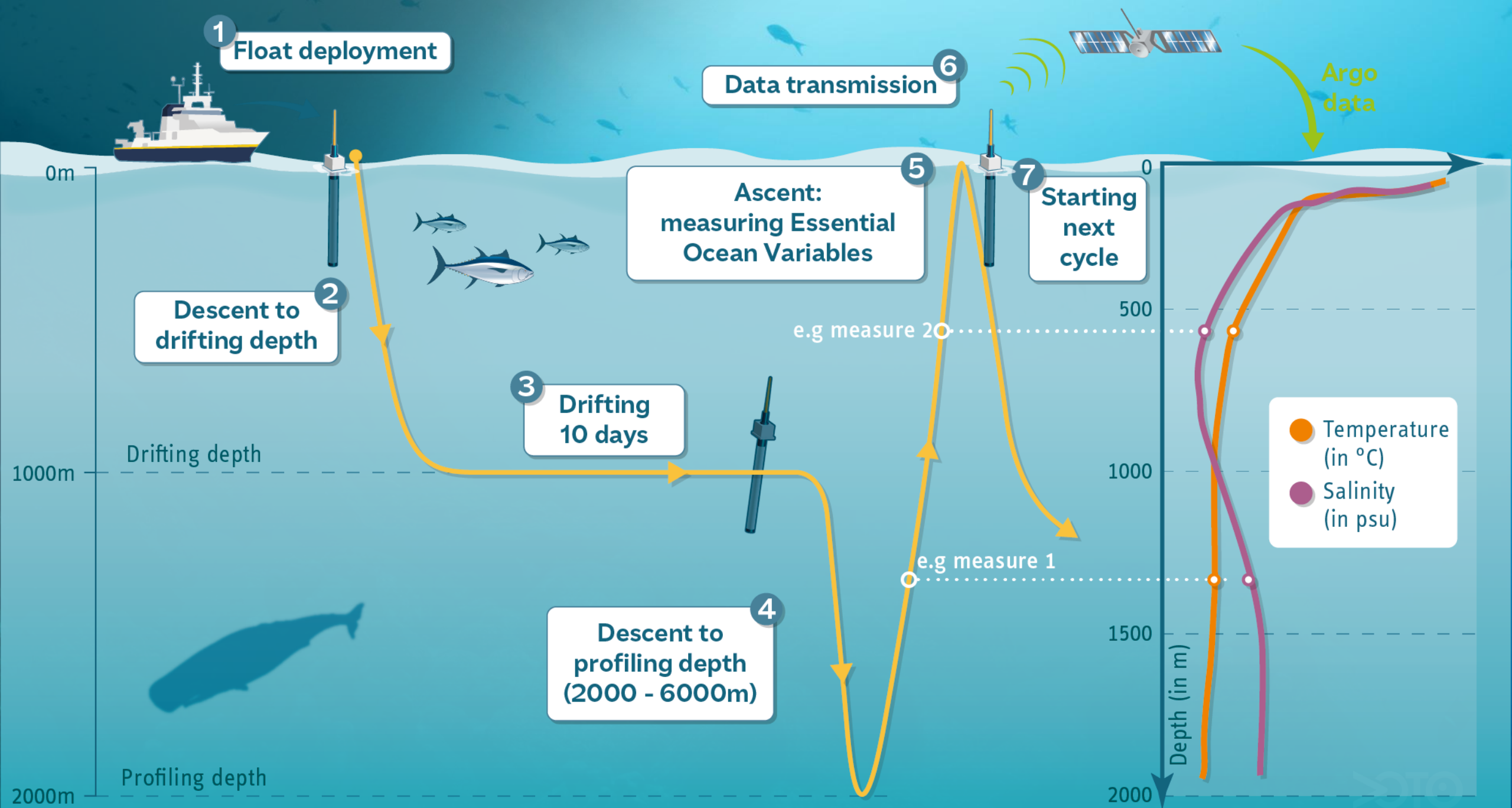
Number of casts* per year (hundreds of thousands)

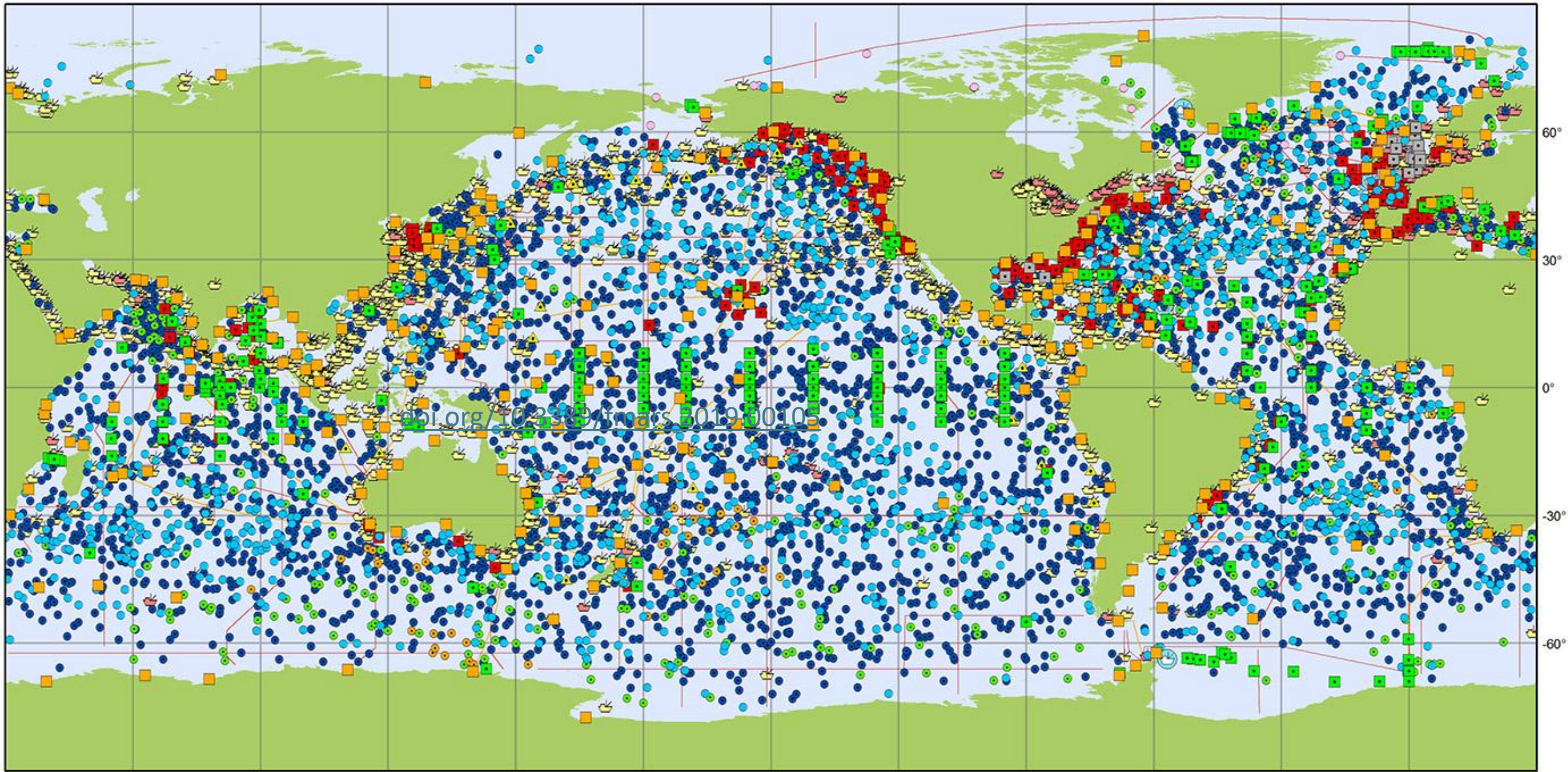


*A cast is a set of measurements for a single variable such as temperature or salinity at different depths; [†]BT, bathythermograph; [‡]CTD, high-resolution sensor of conductivity, temperature and depth.

GHRSSST Level 4 K10_SST Global 10 km Analyzed Sea Surface Temperature (Jan. 9, 2019)
from Naval Oceanographic Office (NAVO)







Main in situ Elements of the Global Ocean Observing System

March 2018







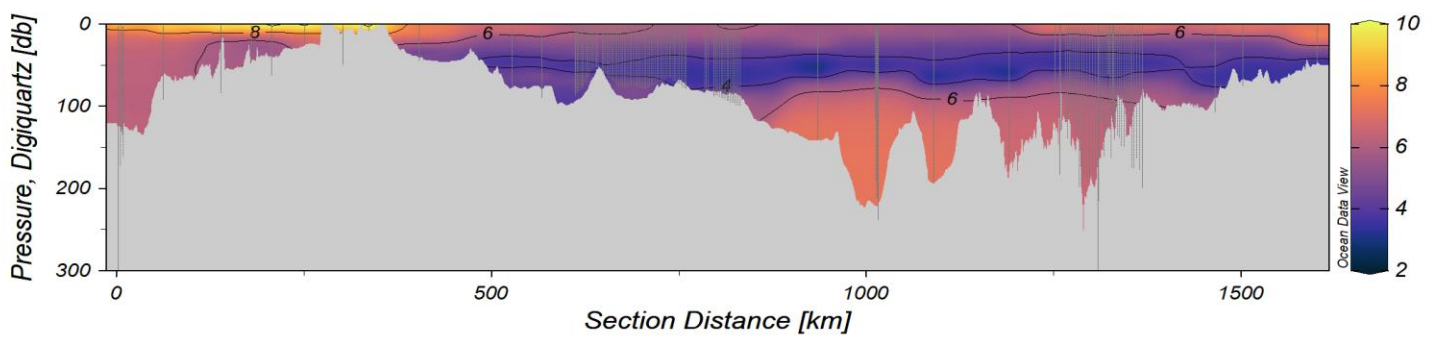
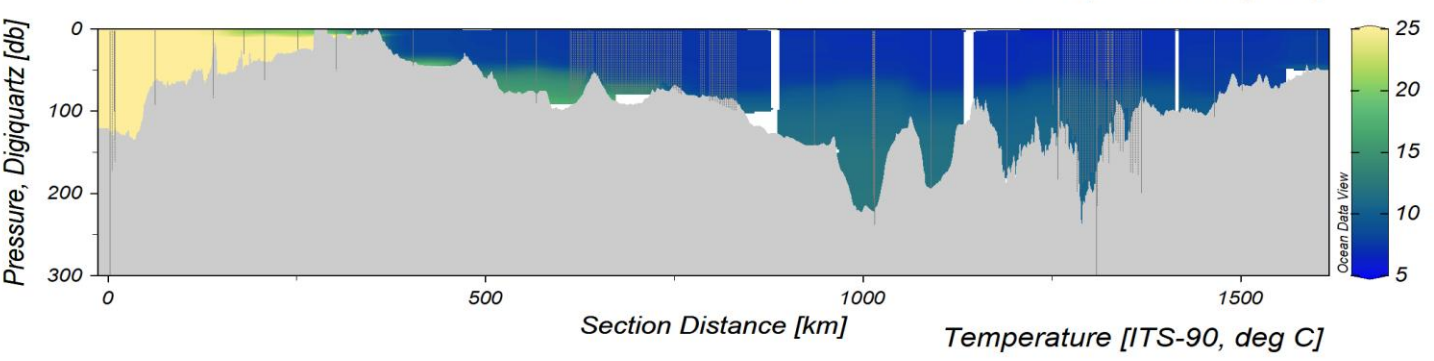
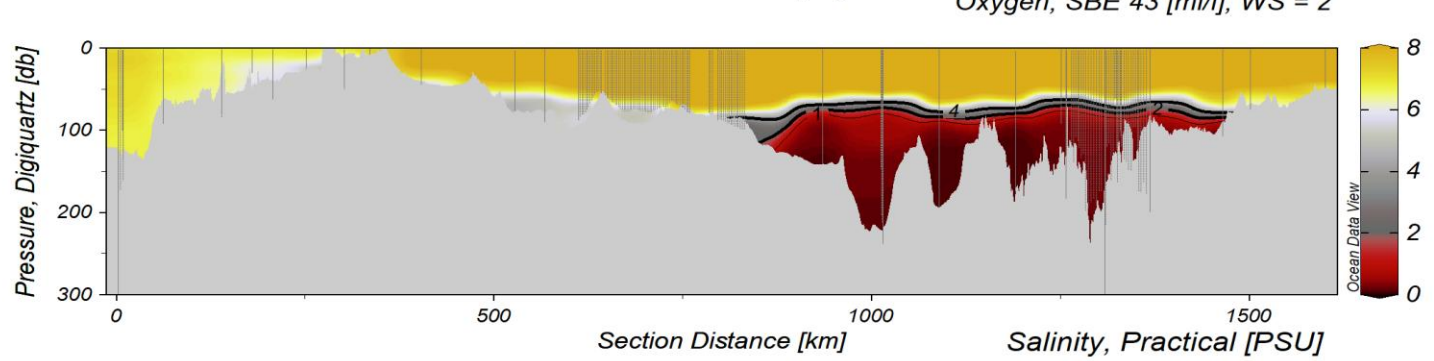
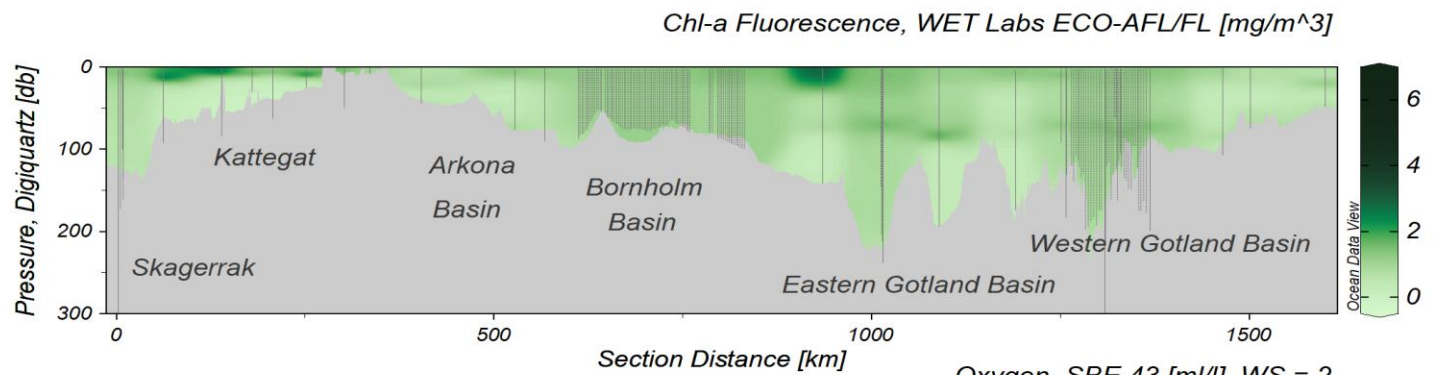
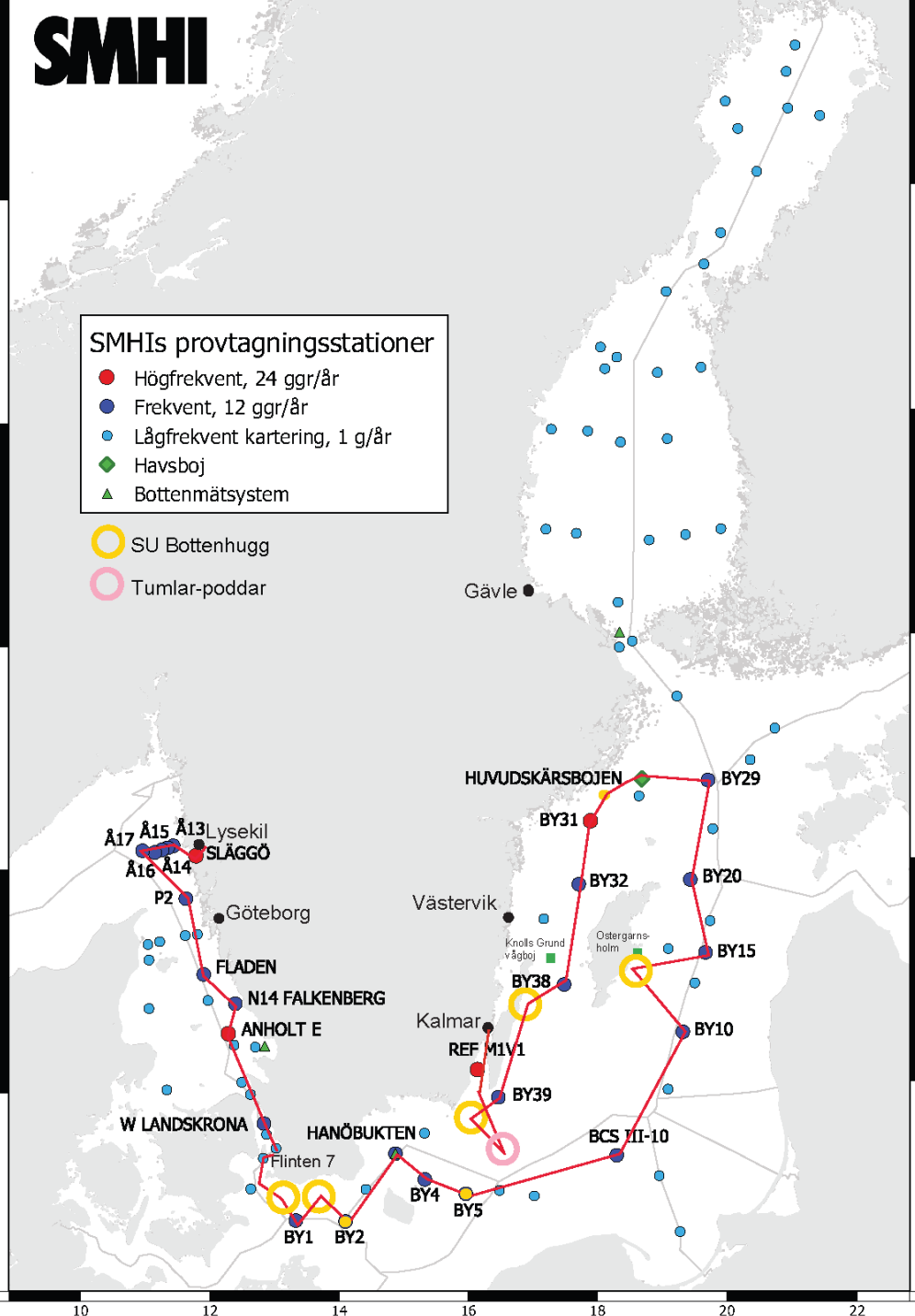


SMHIs provtagningsstationer

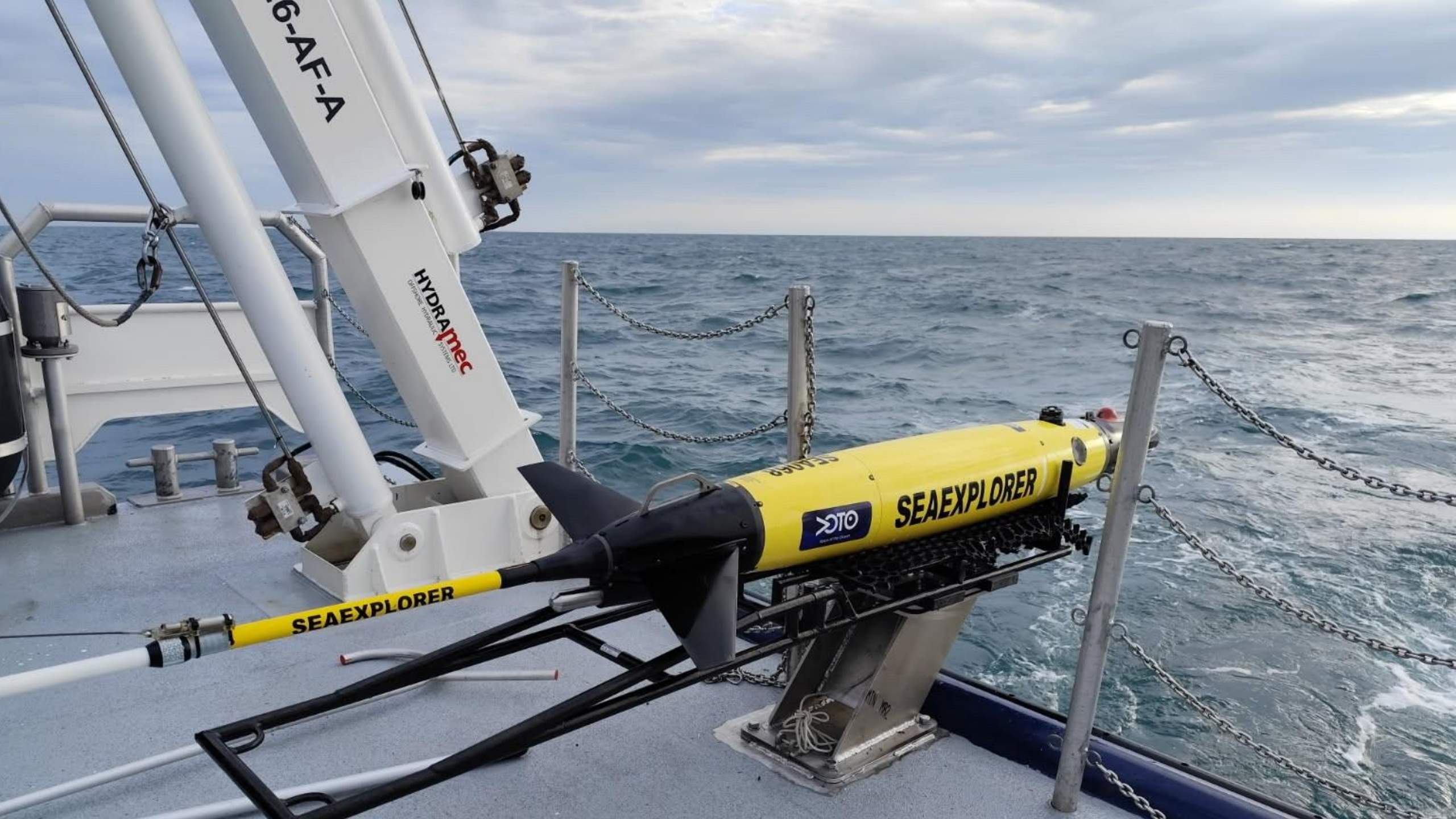
- Högfrekvent, 24 ggr/år
- Frekvent, 12 ggr/år
- Lågfrekvent kartering, 1 g/år
- ◆ Havsboj
- ▲ Bottenmätsystem

SU Bottenhugg

Tumlar-poddar







6-AF-A

HYDRAMEC
HYDRAULIC CRANES

XTO

SEAEXPLORER

SEAEXPLORER

GLIDER DEPLOYMENT

- Manual deployment from vessel



BUOYANCY CHANGE

- Ballast deflation of oil bladder



COMMUNICATION

- Data downloading
- Files transmission
- Route and mission updates

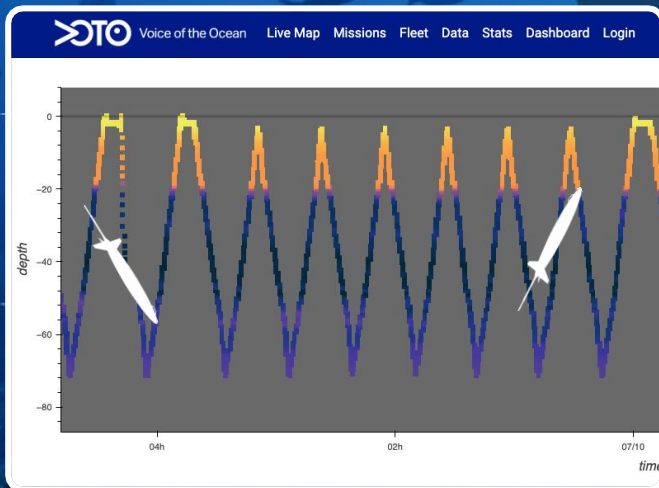


V SHAPED MOVEMENT

A glider doesn't have propellers or an internal engine. Instead, it uses a pump to gently change its buoyancy over time. This allows it to slowly move up and down through the water.

BUOYANCY CHANGE

- Ballast inflation of oil bladder

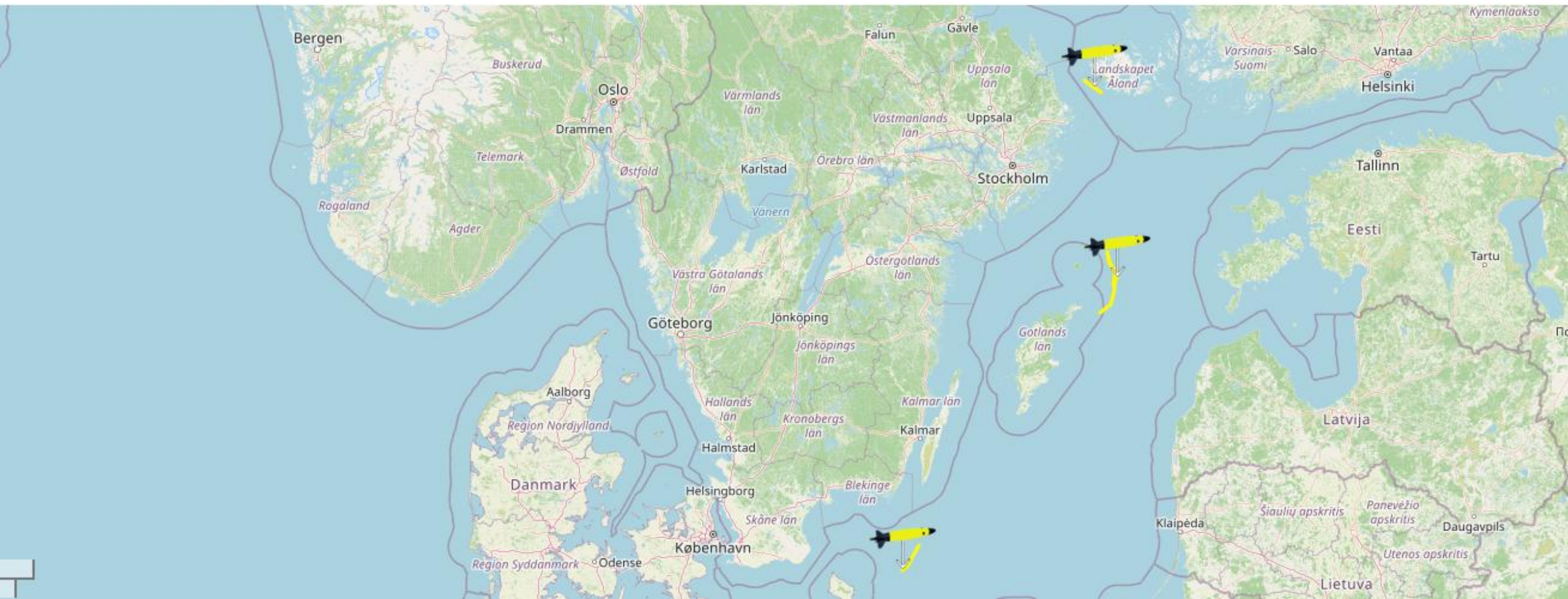


Observations Portal

Our 18 gliders have recorded **540,198** profiles during **20 years 129 days** at sea, covering **157,836 km**.

Our 4 sailbuoys have spent **1 years 179 days** at sea sailing **67,601 km**.

Live platform locations





TACK!

