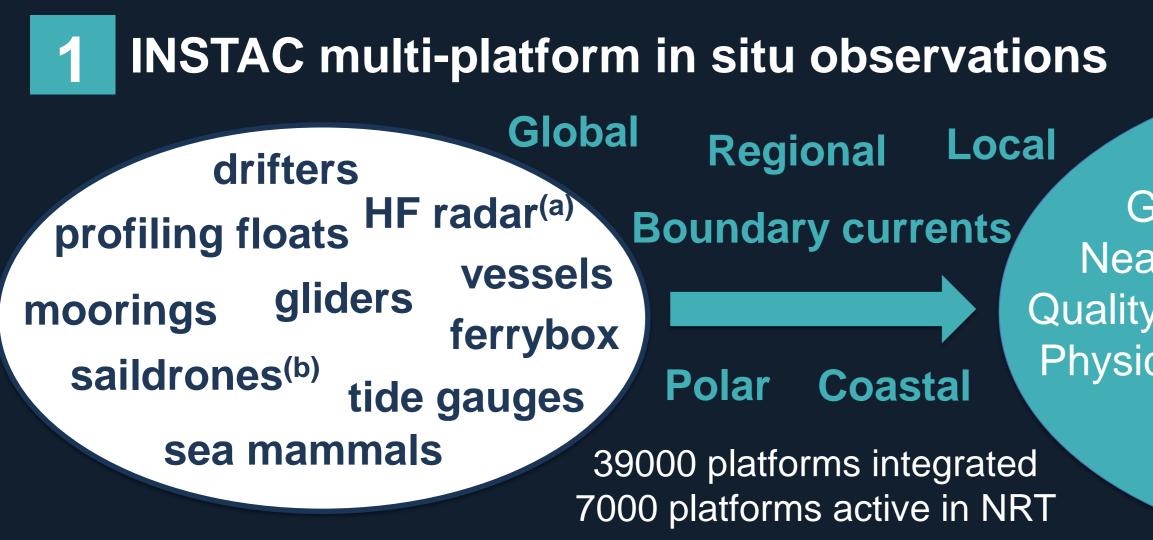
How CMEMS in situ TAC contributes to the monitoring of the ocean?

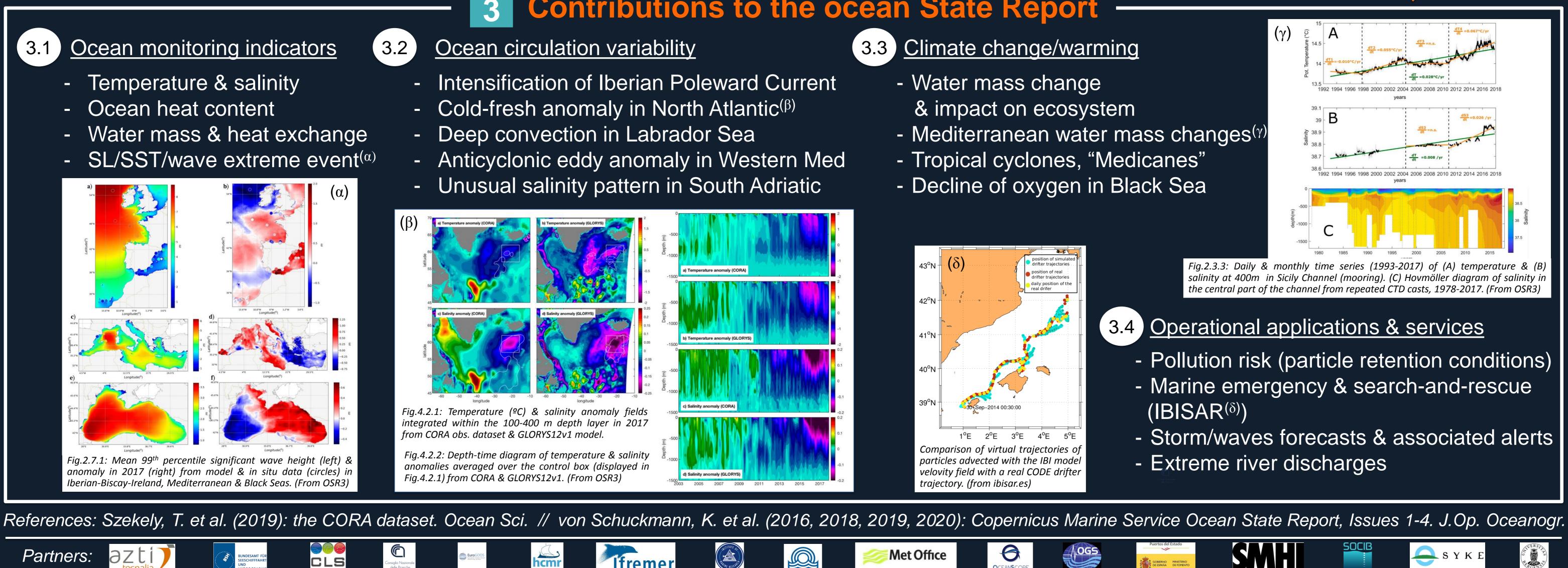


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This overview of the INSTAC contributions to the CMEMS Ocean State Report highlights the capacity of *in situ* observations to describe, analyse & understand the blue & green ocean state & variability from sea surface to deep ocean, from coastal to open sea waters at both short-term (event) & long-term temporal scales.



(a) Implemented in April 2019, (b) Since December 2019 (c) T,S, currents, wave, (d) Oxygen, chlorophyll, carbon, pH



CMEMS INSTAC

Global & 6 Europeans seas Near-Real Time & REProcessed Quality Controlled, free, homogenised Physical ^(c) & biogeochemical ^(d) data Various (x,y,z,t) scales Surface & deep ocean

Since 1950

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INSTAC scientific applications

2.1

- Satellite calibration
- 2.2

 - Ocean health & climate monitoring

Contributions to the ocean State Report





Support to operational oceanography providing data for - Models (initialization/forcing/assimilation/validation) - Blue & green ocean forecasting/analysis/reanalysis - Downstream services

Monitor the 4-D ocean at various space & time scales - Essential information on ocean state-variability-changes - Long-term variability analysis & detection of events