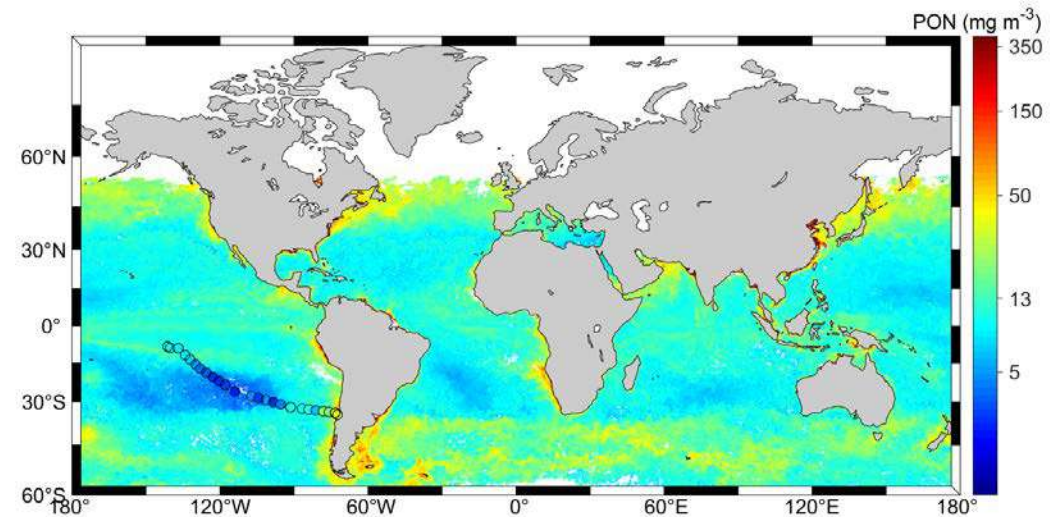
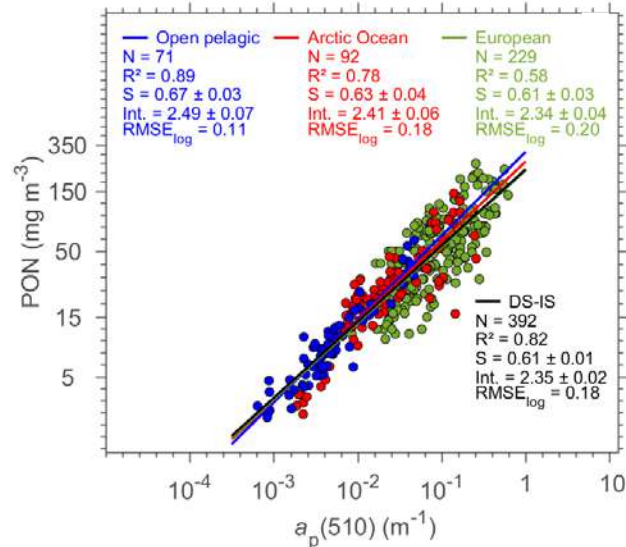
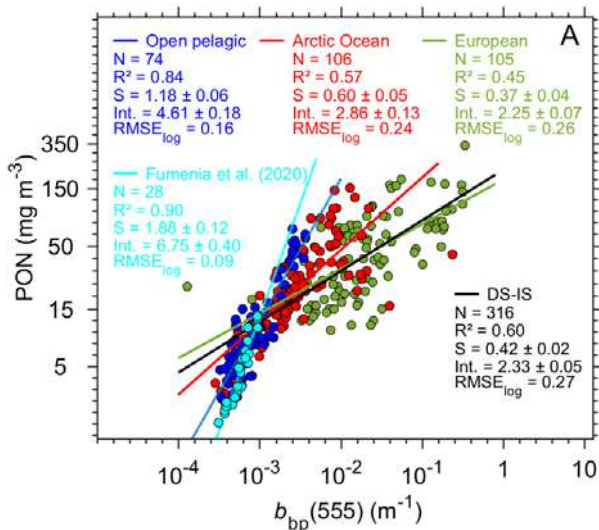


TOSCA/COUL-PNP(2023-2026): Proxys optiques de l'azote et du phosphate organique particulaire : application aux données satellite de la couleur de l'eau. PI: Hubert Loisel



Projet qui se fait dans la continuité du postdoc CNES d'Alain Fuménia





UMR7144
UMR Adaptation et Diversité en Milieu Marin
AD2M



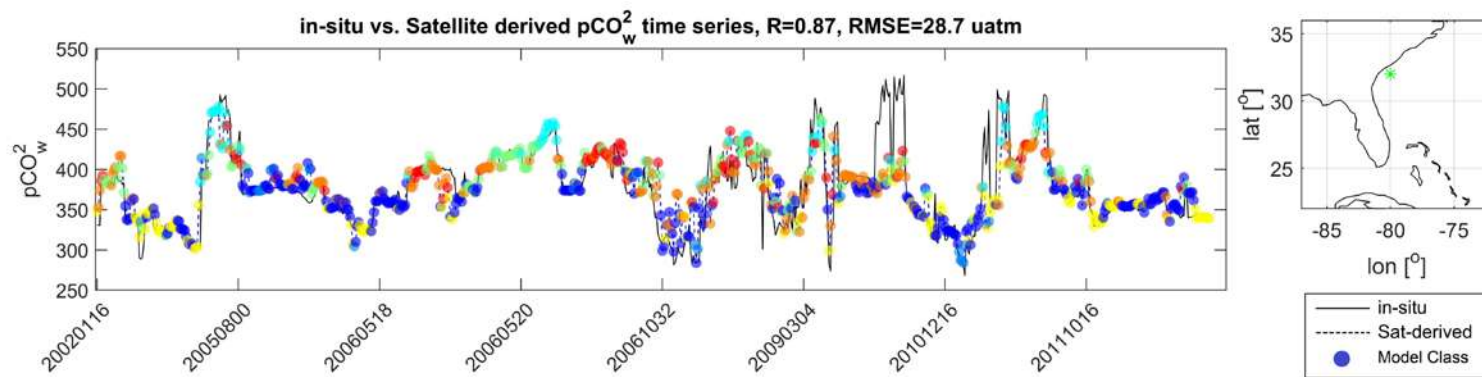
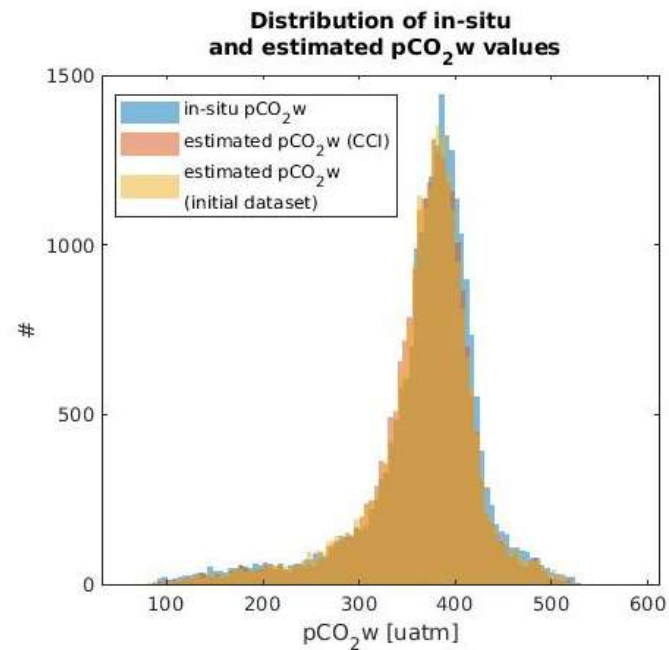
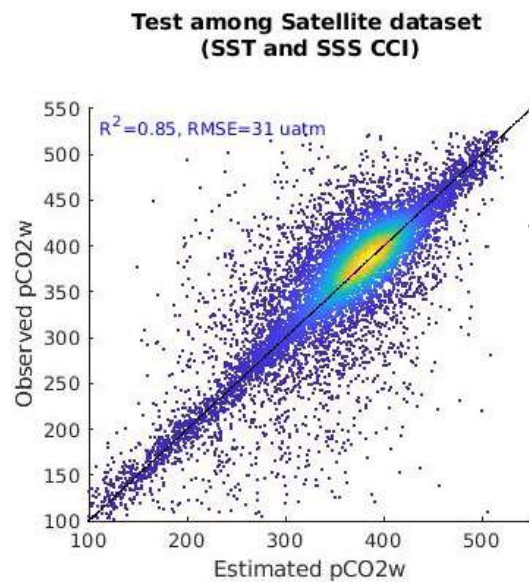
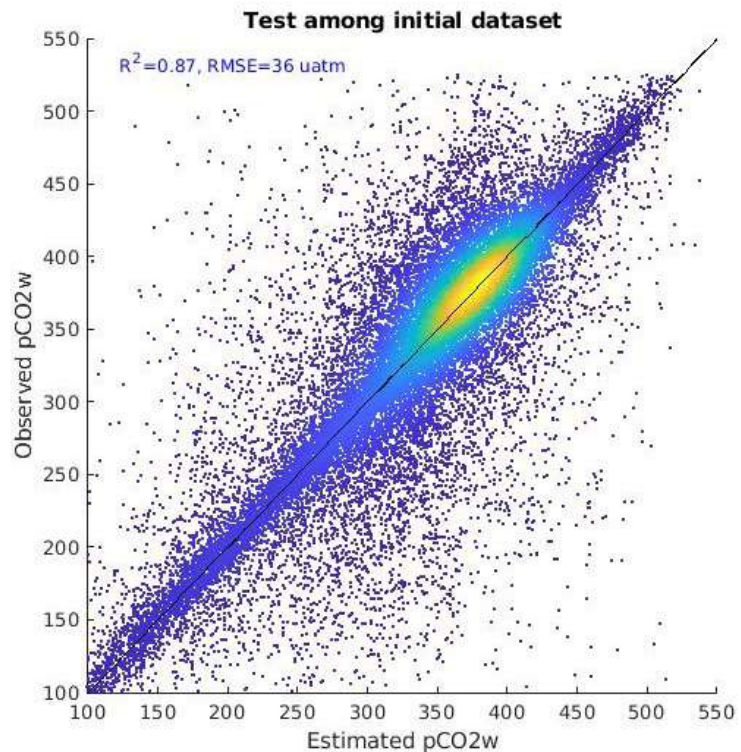
ANR/CO₂COAST (2021-2025): Analysis of the spatio-temporal variability of pCO₂ and air-sea flux of CO₂ over the global coastal ocean during the last two decades: a satellite approach. PI. Hubert Loisel

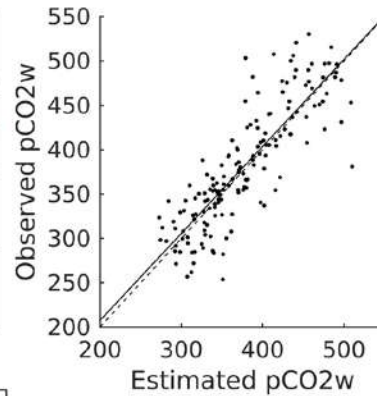
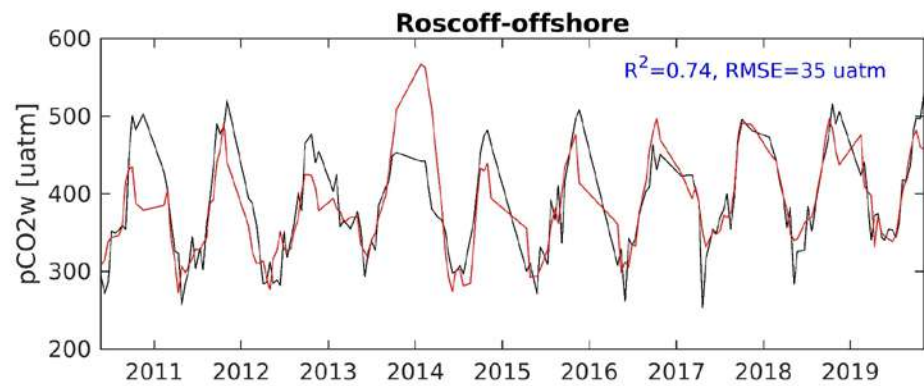
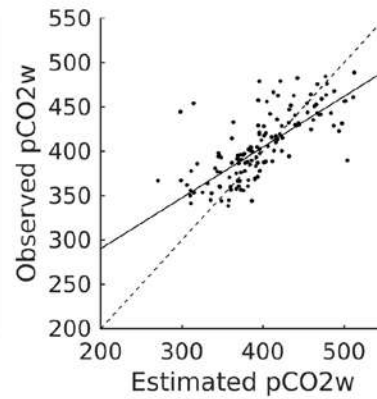
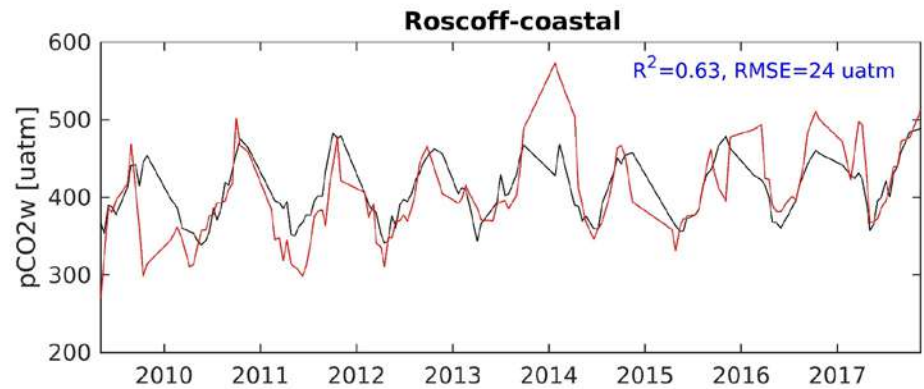
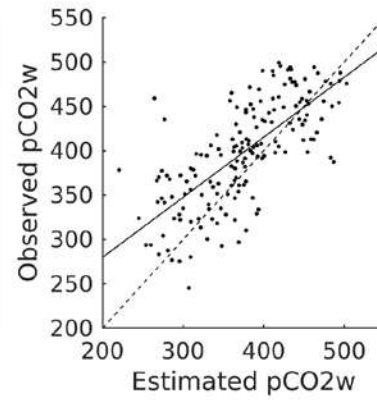
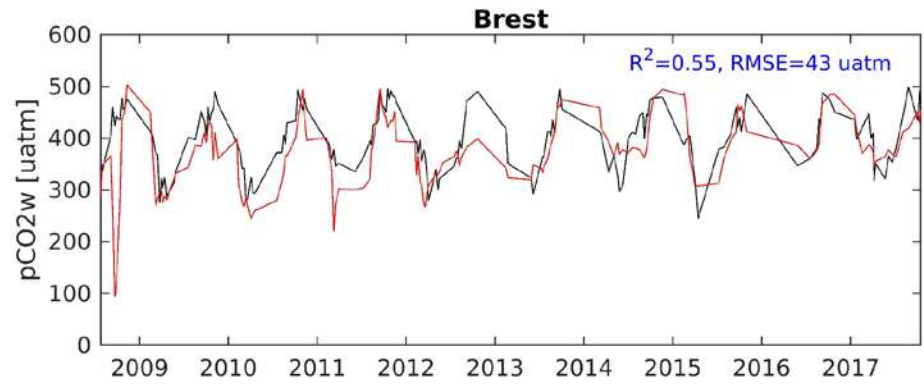
Products assessment from space observations: Estimate the surface-ocean CO₂ partial pressure, pCO₂^w, CO₂ flux, and associated uncertainties from satellite remote sensing over the global coastal waters at 1km² of spatial resolution (thanks to 580.10³ match-up between Globcolor and in situ pco₂ measurements from SOCAT).

Temporal variability schemes: Assessing and analyzing the seasonal, inter-annual, and last 25 years trend evolutions of pCO₂^w and CO₂ flux over global coastal waters.

Respective contribution of the different coastal environments: Analyze the respective contribution of estuaries and coastal shelf waters, as well as the contribution of the different continental shelf types (i.e. enclosed seas, upwelling, polar open shelf, temperate open shelf, and tropical open shelf) or specific coastal environments (e.g. mangroves areas, and large deltas).

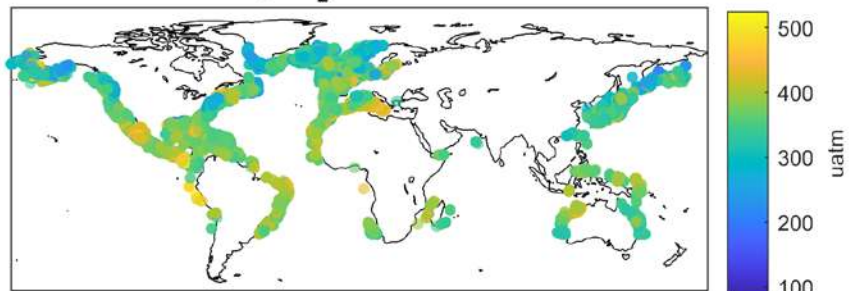




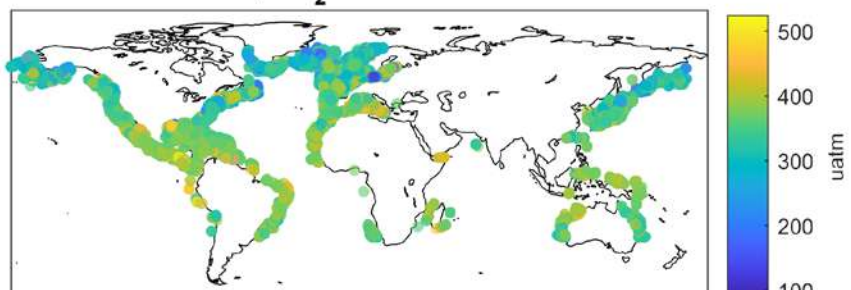


— in-situ — Sat-estimated

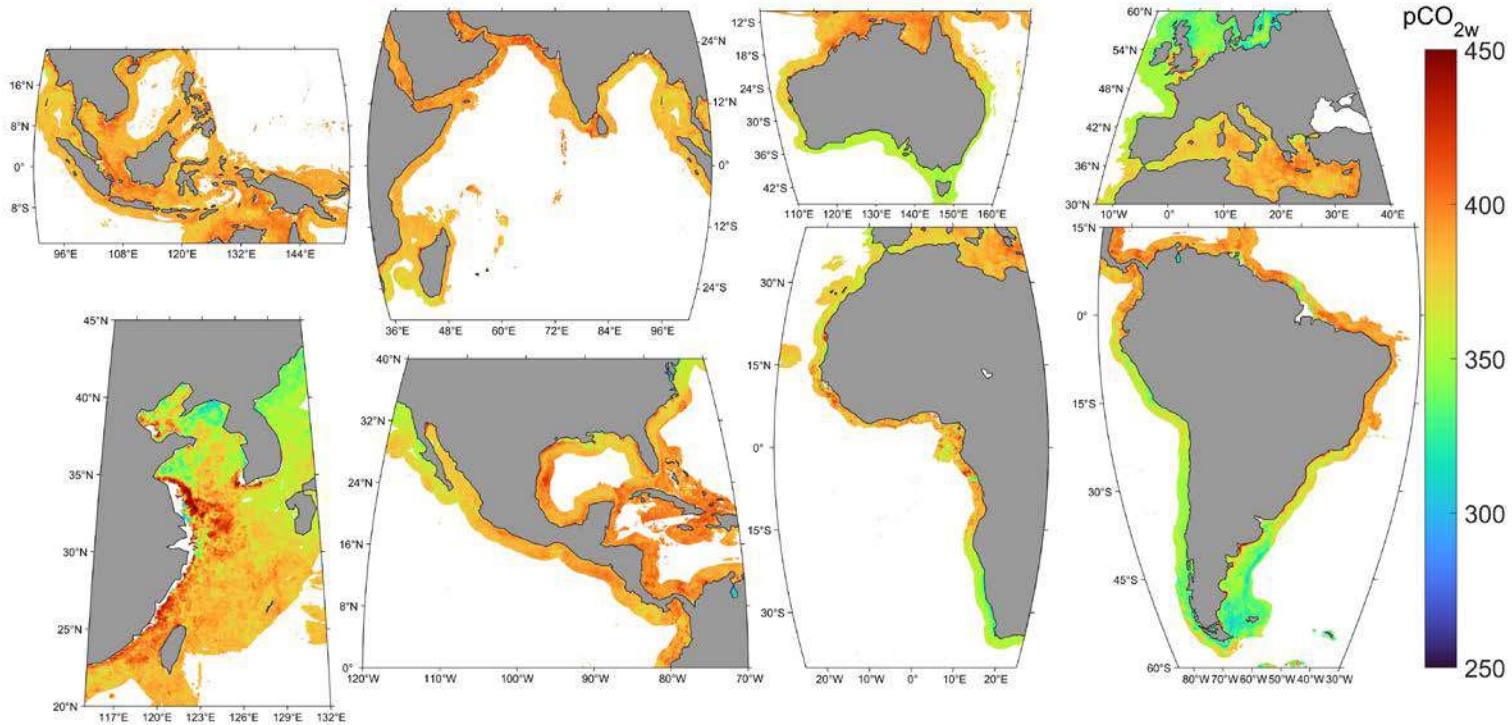
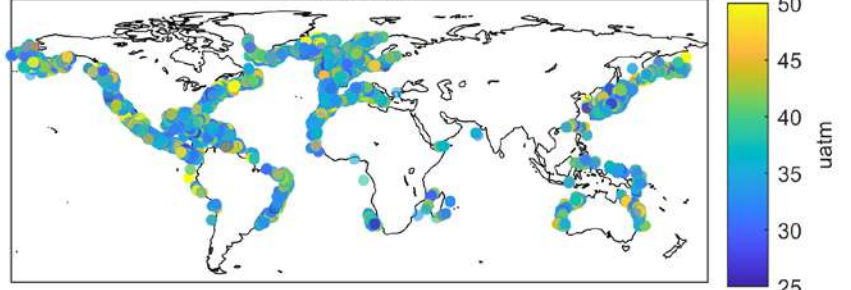
pCO₂ Observed



pCO₂ Estimated



Uncertainty



MERCATOR INTERNATIONAL/OCROC (2022-2024): Ocean Color Radiometry for the assessment of the particulate and dissolved Organic Carbon over both open and coastal waters. PI. Hubert Loisel

Fourniture des algos POC et DOC en côtier et en océan ouvert au **Copernicus Marine Service**

