

[WMedSeaExample]: SPASSO Images Analysis

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April 5, 2023

Executive Summary

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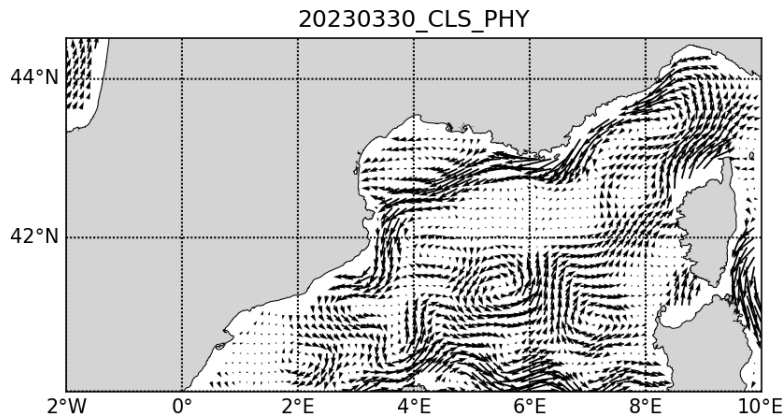
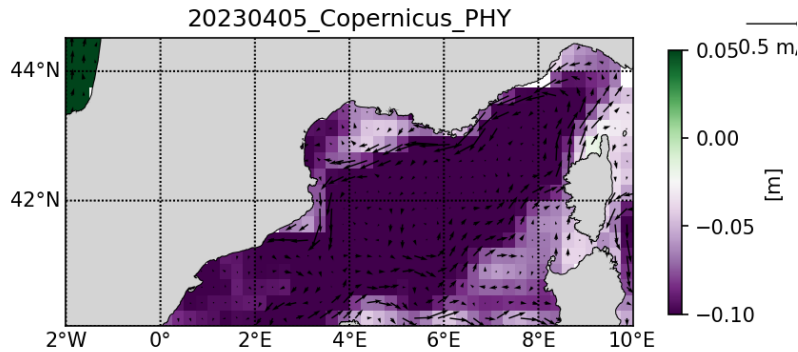
1 Ongoing operations and upcoming stations

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2 Daily figures analysis

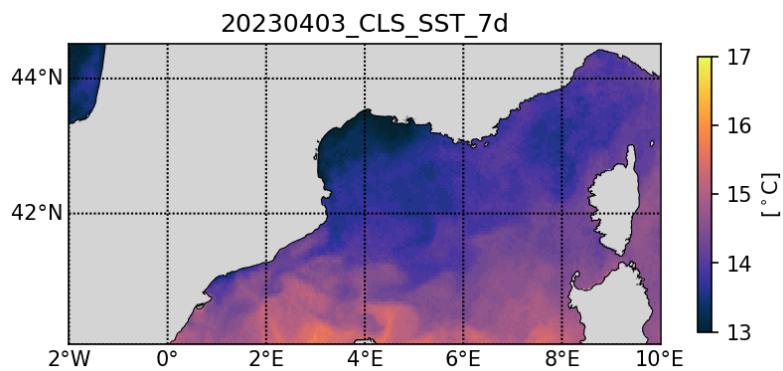
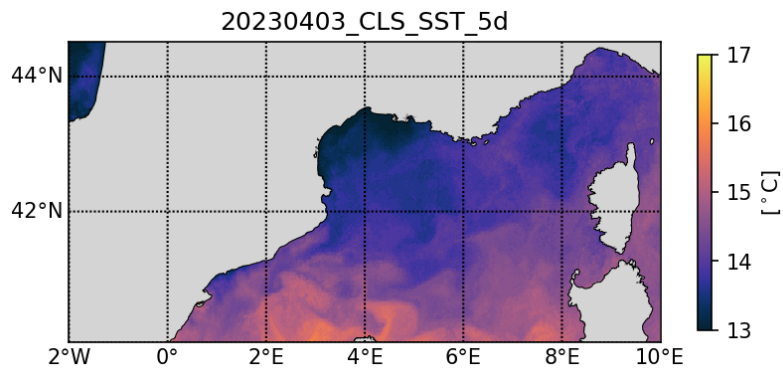
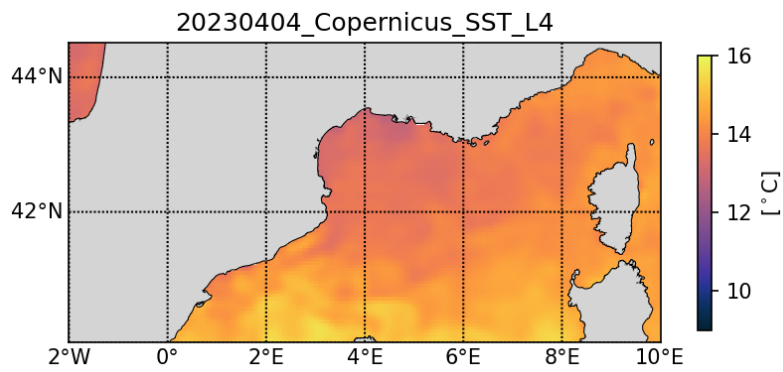
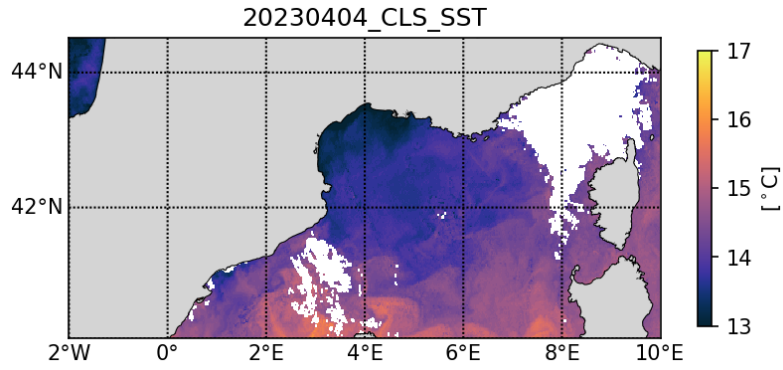
2.1 Altimetry, derived currents

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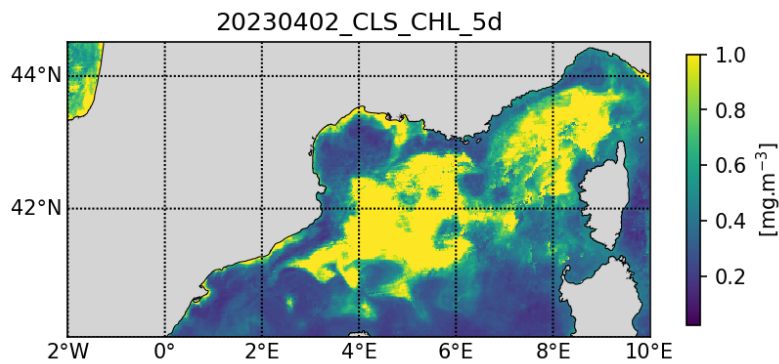
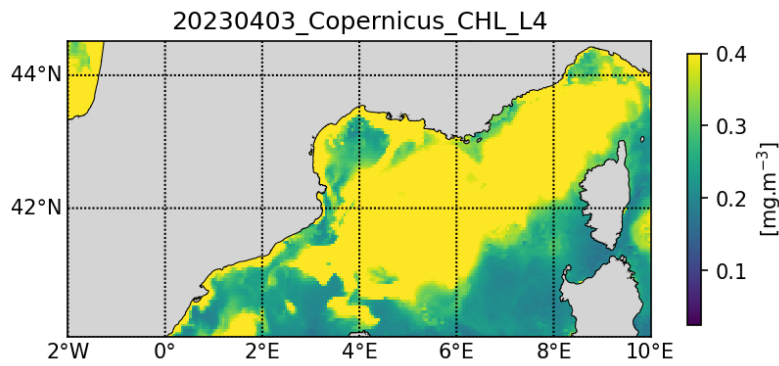
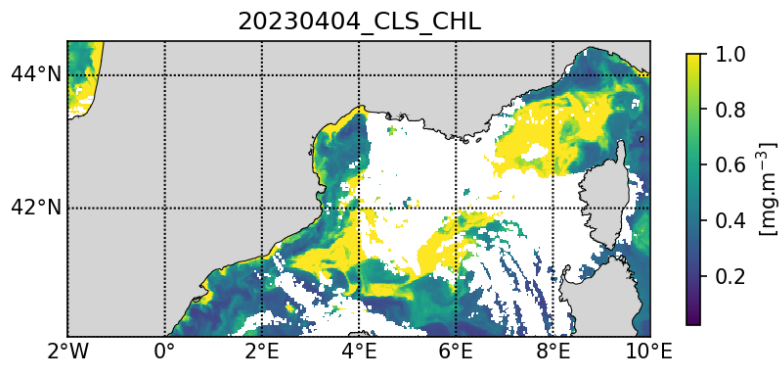
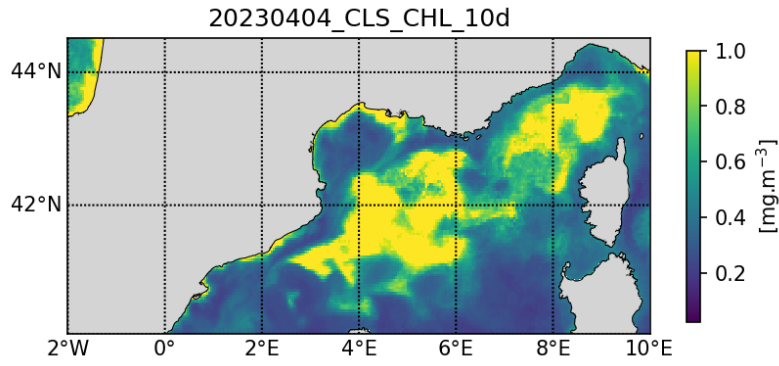
2.2 SST analysis

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2.3 Chlorophyll analysis

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2.4 Eulerian/Lagrangian analysis

Eulerian diagnostics computed with Copernicus_PHY velocities:

KE: kinetic energy

OW: Okubo-Weiss parameter

Lagrangian diagnostics computed by seeding Lagrangian particles every 0.02deg and advected for 30 days backward in time with Copernicus_PHY velocities:

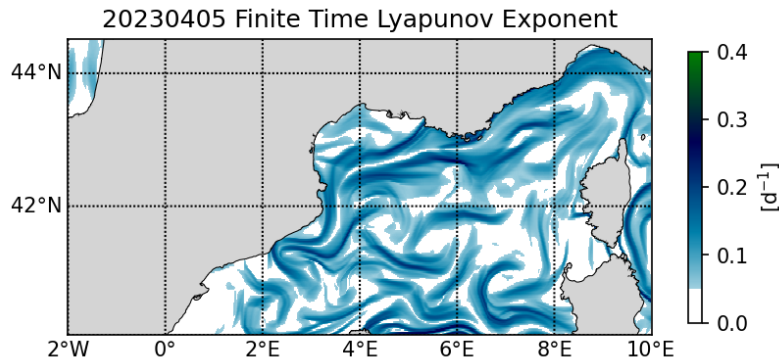
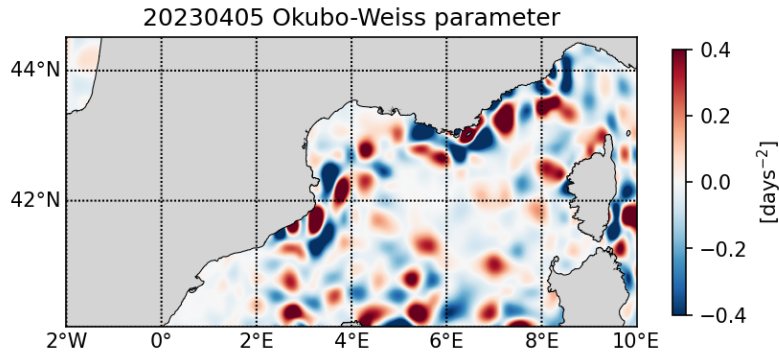
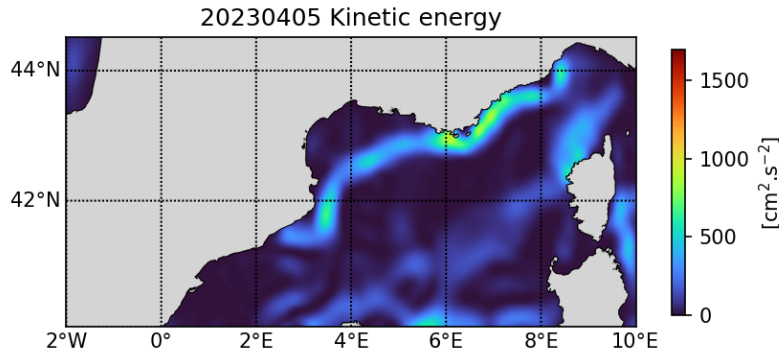
FTLE: finite time Lyapunov exponents (convergent fronts detection)

LLADV: longitude and latitude advection

Retention parameter (based on computing the okubo Weiss parameter along a particle trajectory): Detect trapping structures (colorbar = days water parcels have a positive vorticity)

Timefrombathy: Water age since last contact with isobath XXm (precised in figure title)

More details available at: <https://www.swot-adac.org/resources/swot-adac-products-access/>



2.5 Other analysis

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Acknowledgments

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