

[BIOSWOT-Med]: SPASSO Images Analysis

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March 9, 2023

Executive Summary

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1 Ongoing operations and upcoming stations

SWOT passing time (UTC) over:

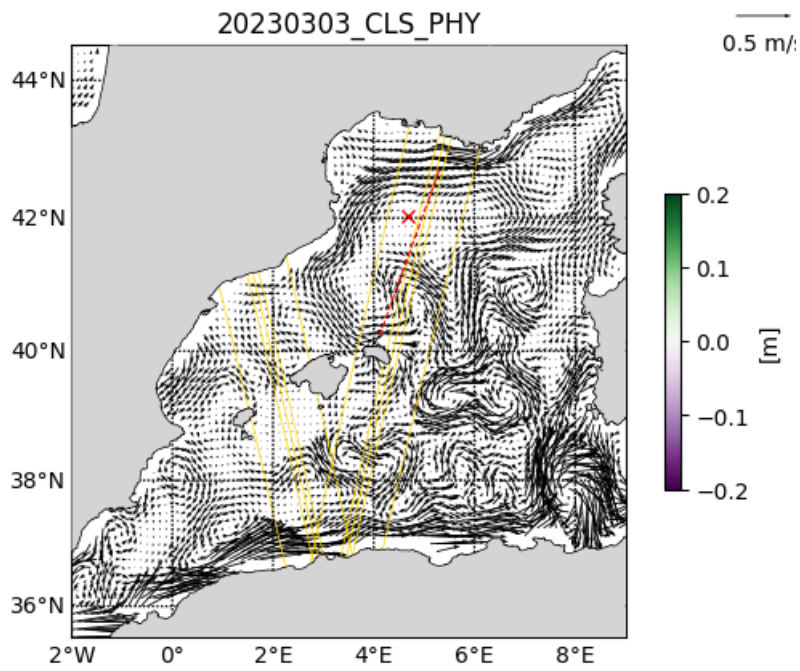
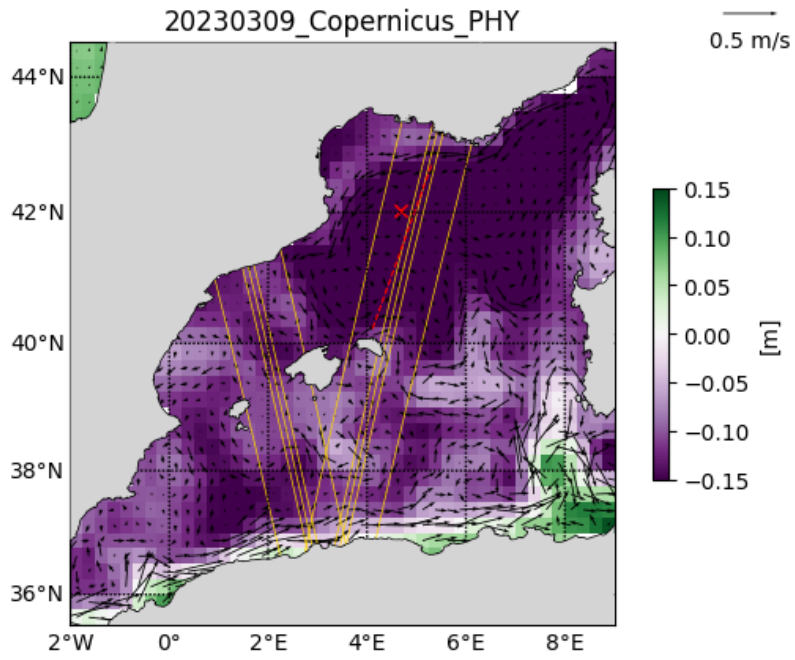
43°N - 5°E Asc 42.7°N - 4.8°E Asc
:----- :-----
2023-03-09 03:29:37 2023-03-09 03:29:37
2023-03-10 03:20:14 2023-03-10 03:20:14
2023-03-11 03:10:52 2023-03-11 03:10:52

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2 Daily figures analysis

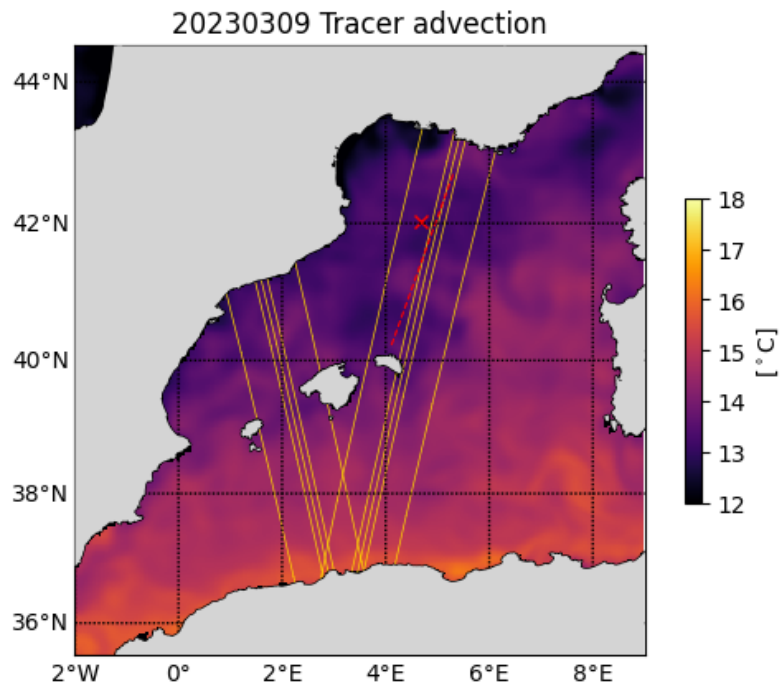
2.1 Altimetry, derived currents

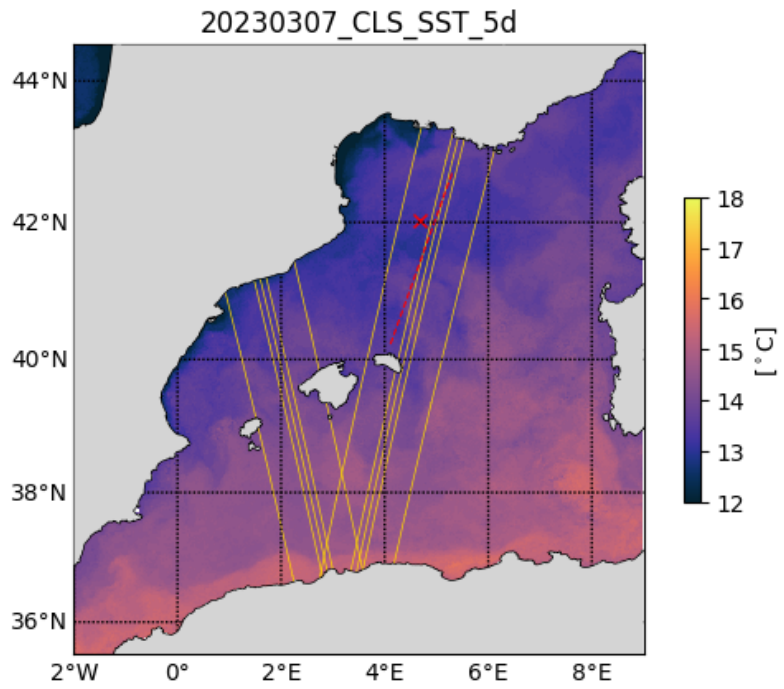
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2.2 SST analysis

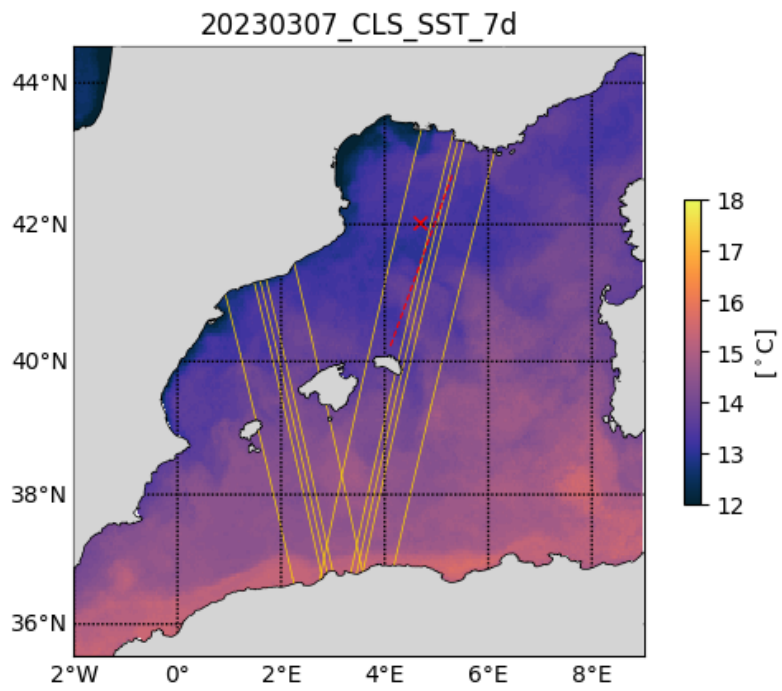
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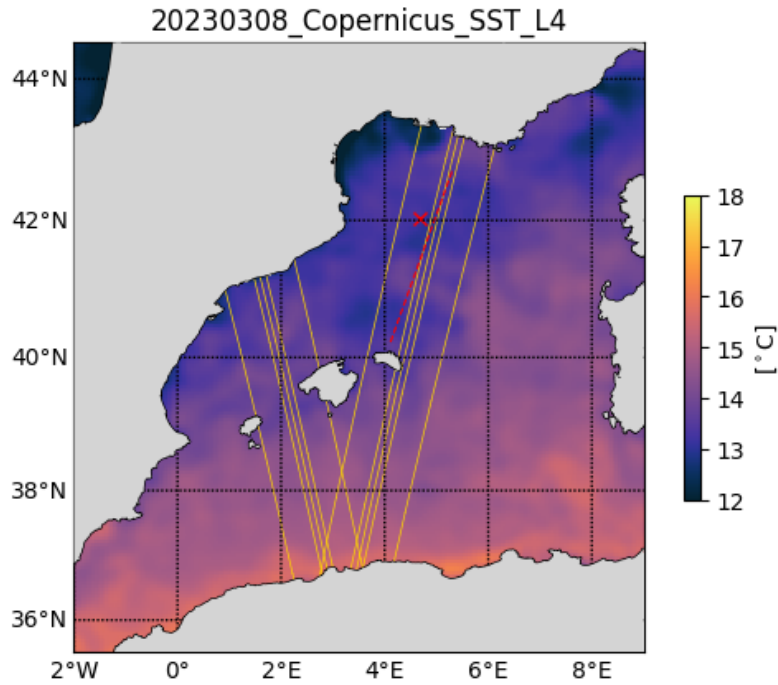
2.3 Chlorophyll analysis

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2.4 Eulerian/Lagrangian analysis

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2.5 Other analysis

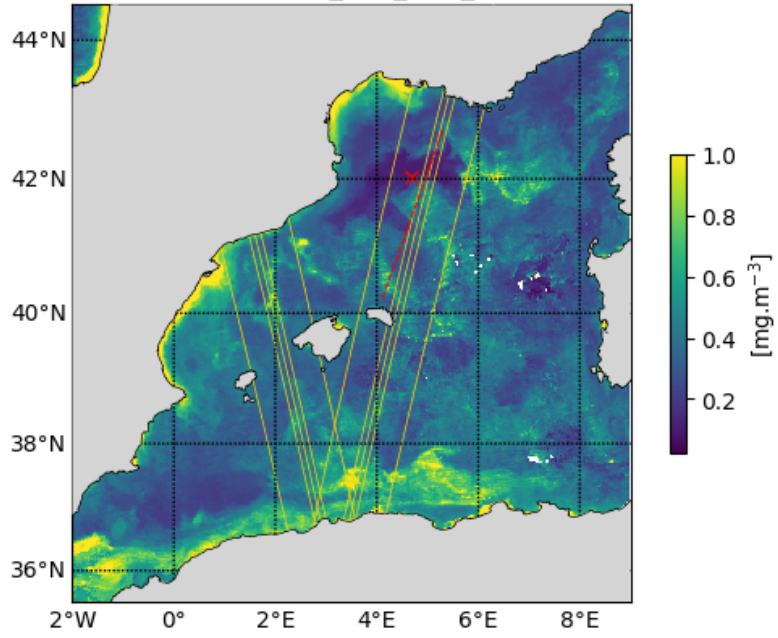
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Acknowledgments

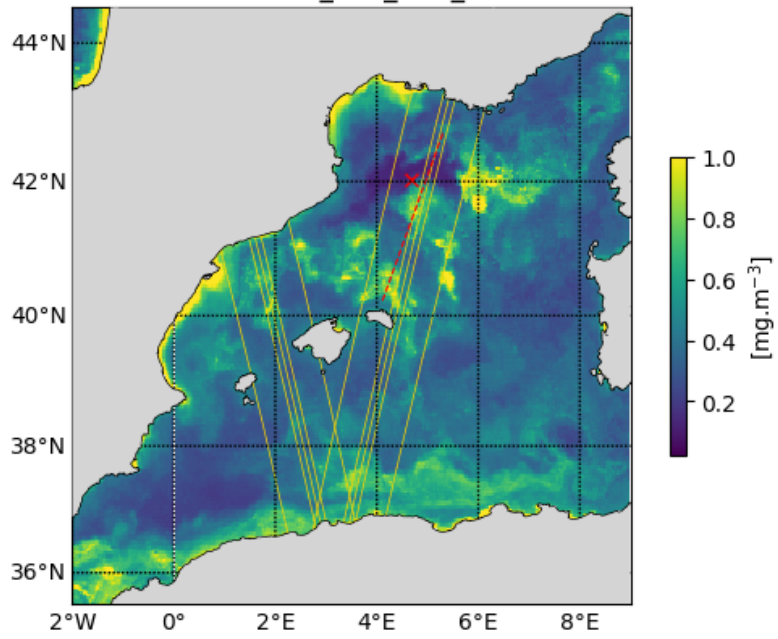
Example:

The altimetry data are the AVISO Mediterranean regional product: <http://www.aviso.altimetry.fr/index.php?id=1>. The derived currents are processed by SPASSO to derive Eulerian and Lagrangian diagnostics of ocean circulation: OkuboWeiss parameter, particle retention time and advection, Lagrangian Coherent Structures. CLS provided the SST and surface CHL concentration composite products. Sea surface temperature (level 3 and 4, 1 km resolution) and chlorophyll concentration (level 3, 1km resolution, MODISAqua and NPPVIIRS sensors combined (after May 27, 2017) into a new product called MULTI) have been provided by CMEMS Copernicus Marine Environment Monitoring Service (<http://marine.copernicus.eu>). Another SST product (level 4, composite, 1 km resolution) is provided by the Jet Propulsion Laboratory (JPL), Pasadena, CA.

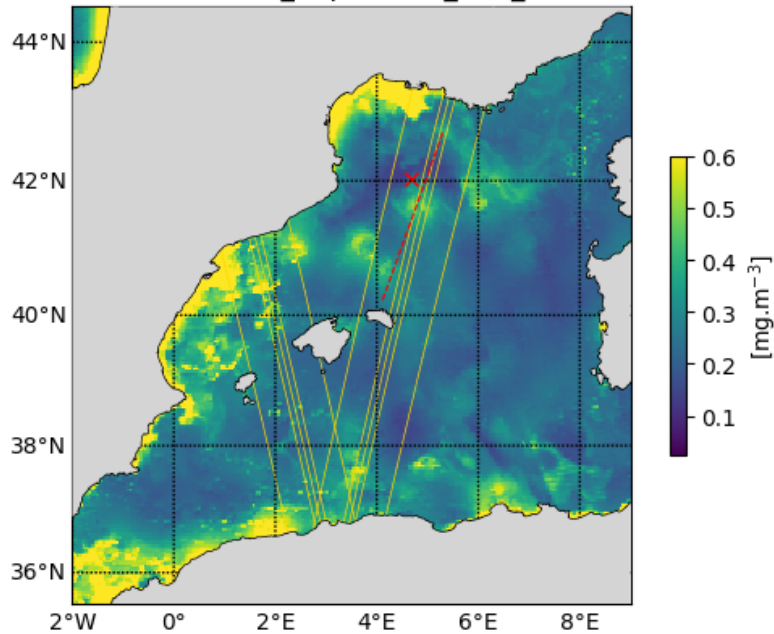
20230306_CLS_CHL_5d



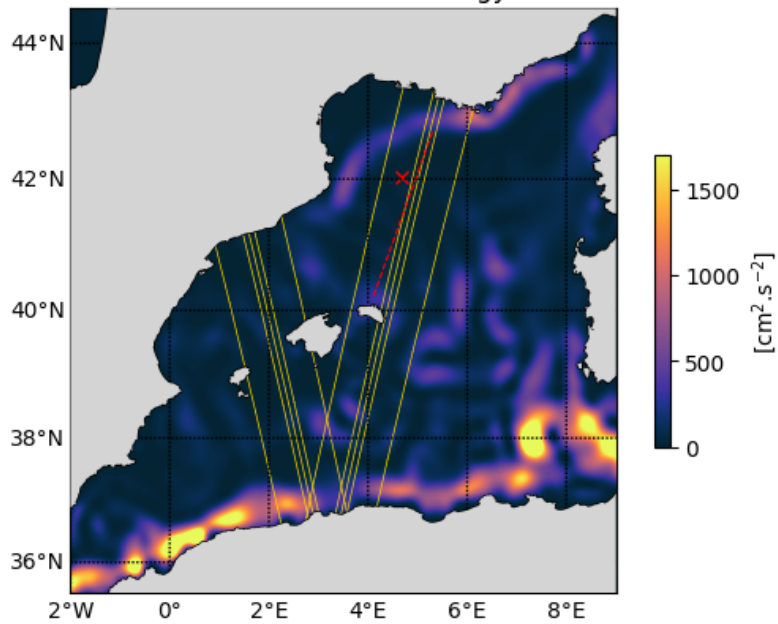
20230308_CLS_CHL_10d



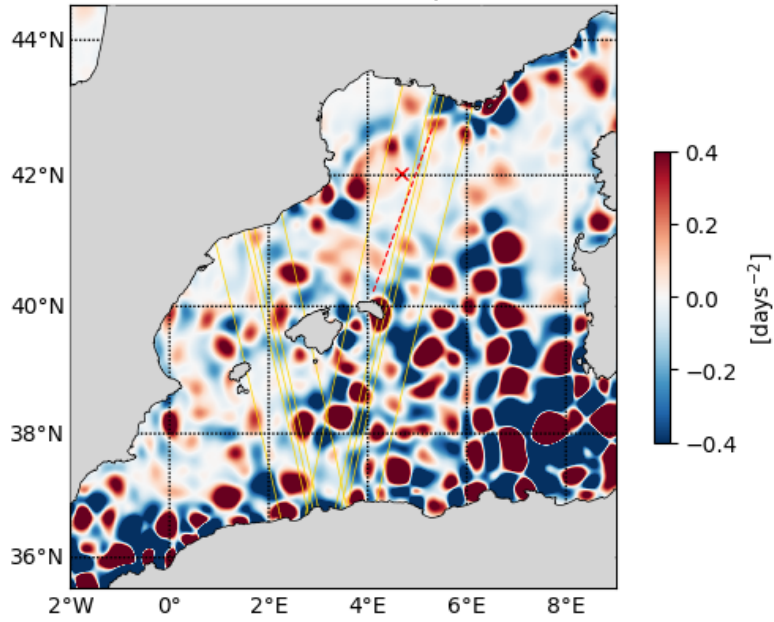
20230307_Copernicus_CHL_L4



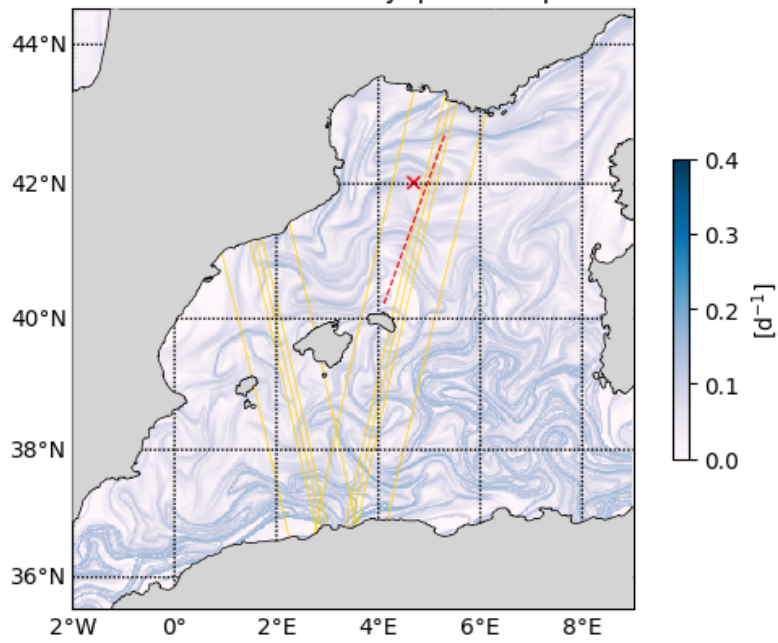
20230309 Kinetic energy



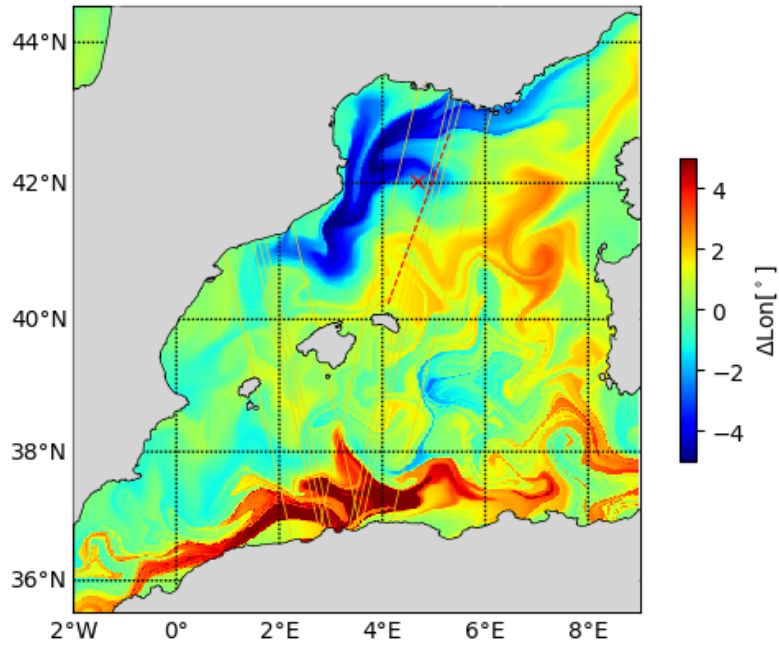
20230309 Okubo-Weiss parameter



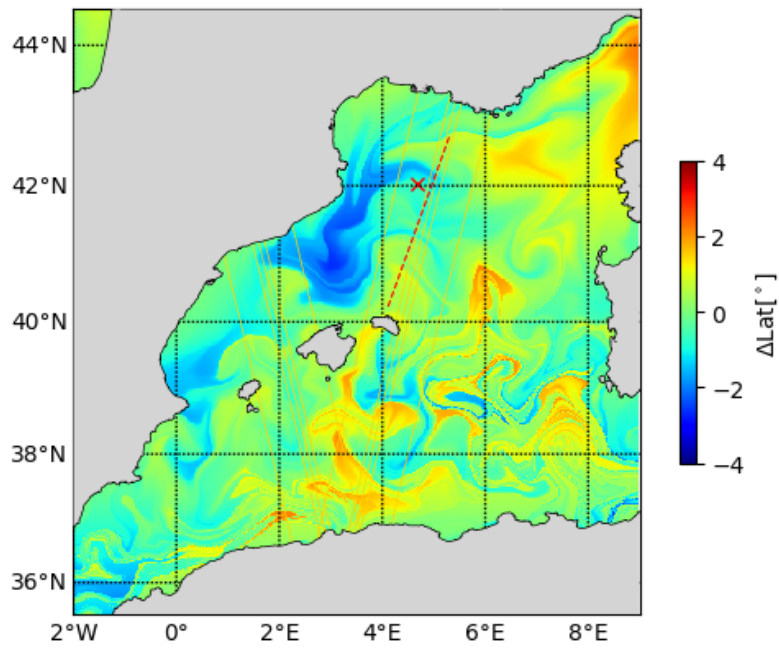
20230309 Finite Time Lyapunov Exponent



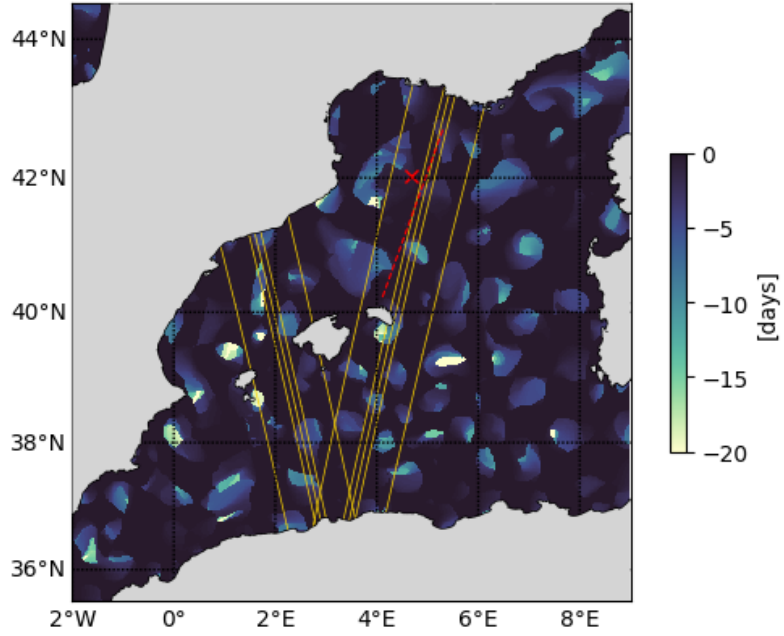
20230309 LonAdv



20230309 LatAdv



20230309 Retention parameter



20230309 Tracer advection

