

[BIOSWOT-Med]: SPASSO Images Analysis

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March 11, 2023

Executive Summary

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1 Ongoing operations and upcoming stations

SWOT passing time (UTC) over:

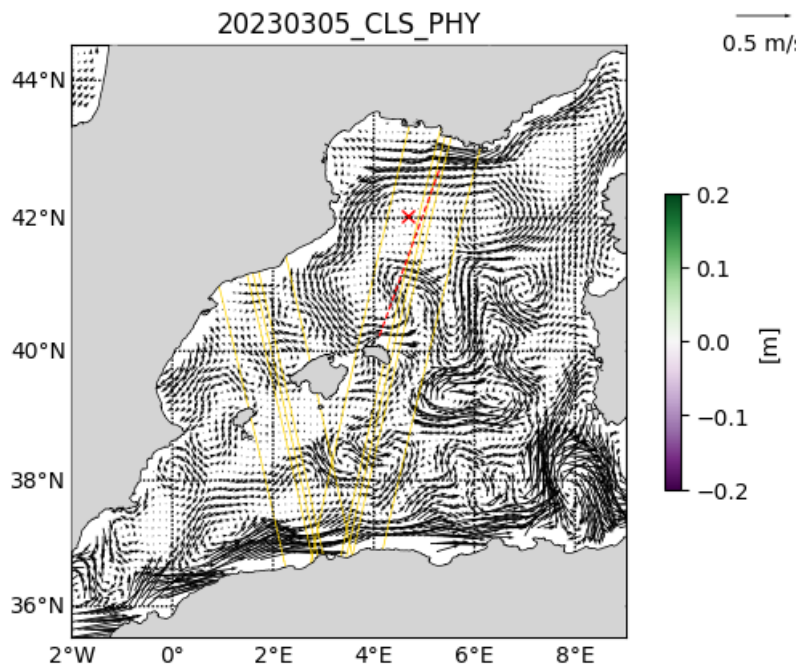
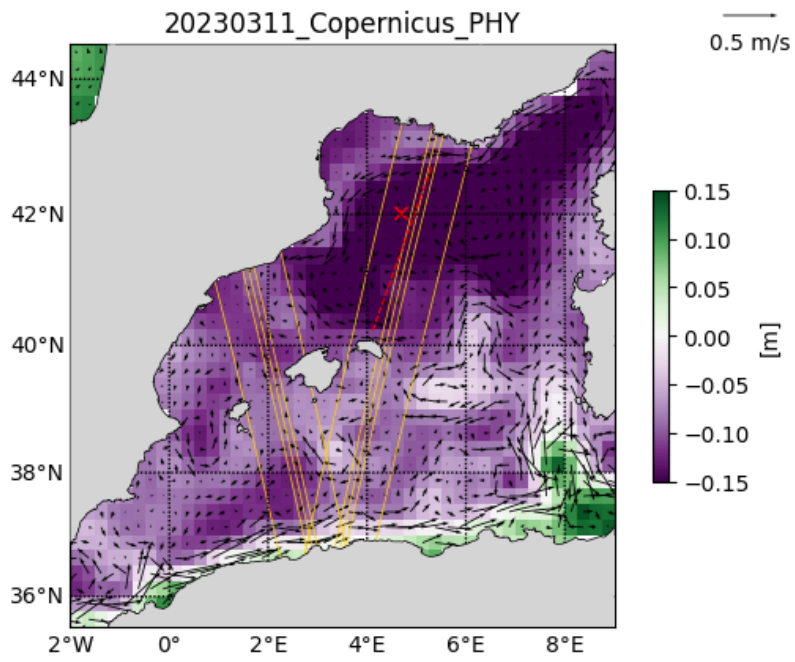
43°N - 5°E Asc 42.7°N - 4.8°E Asc
:----- :-----
2023-03-11 03:10:52 2023-03-11 03:10:52
2023-03-12 03:01:29 2023-03-12 03:01:29
2023-03-13 02:52:07 2023-03-13 02:52:07

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2 Daily figures analysis

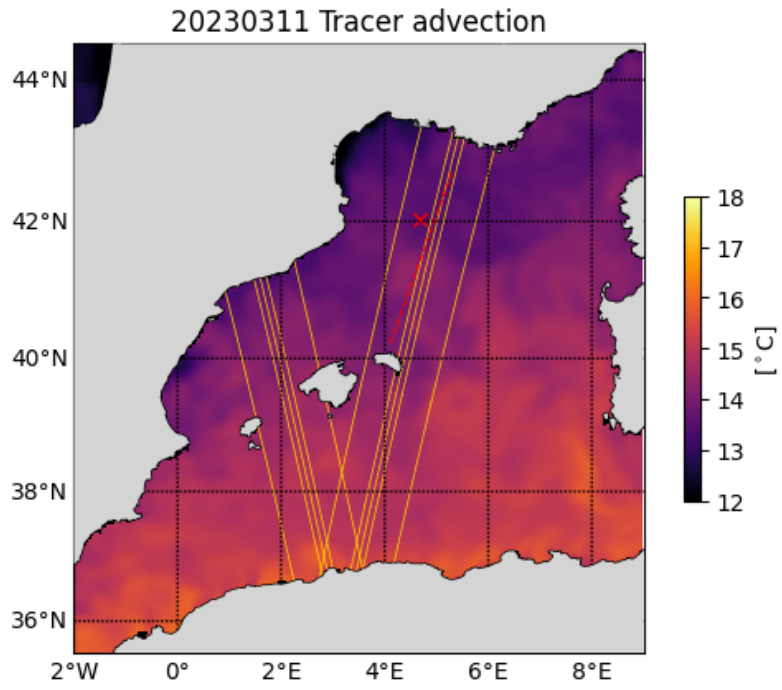
2.1 Altimetry, derived currents

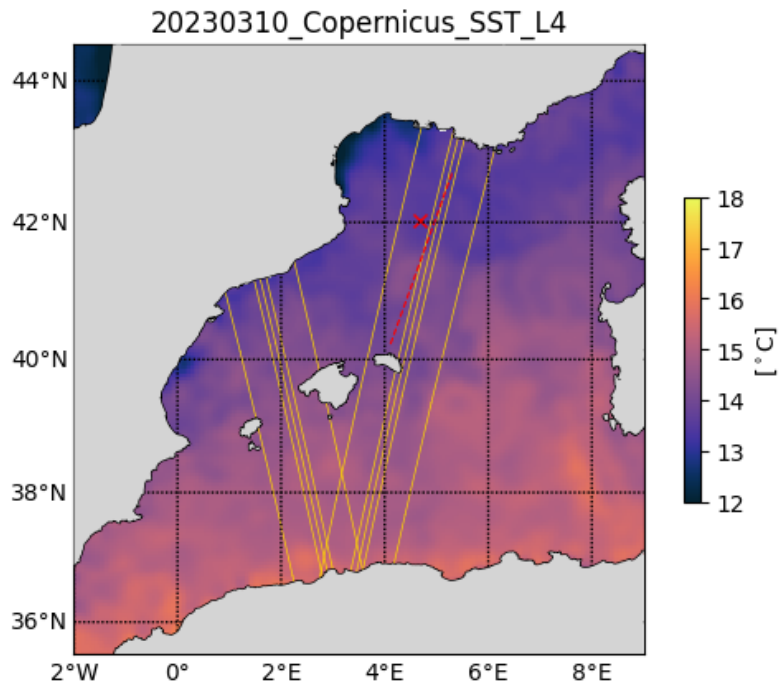
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2.2 SST analysis

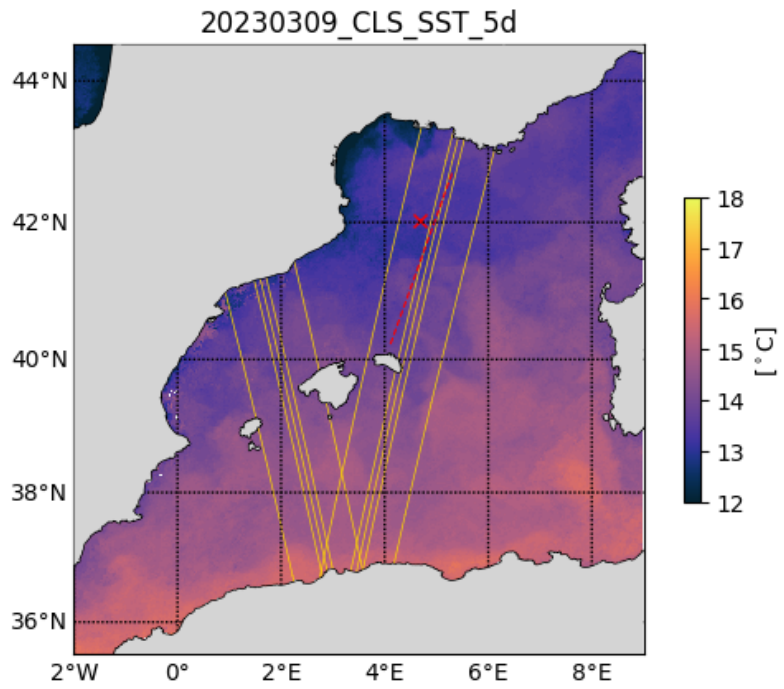
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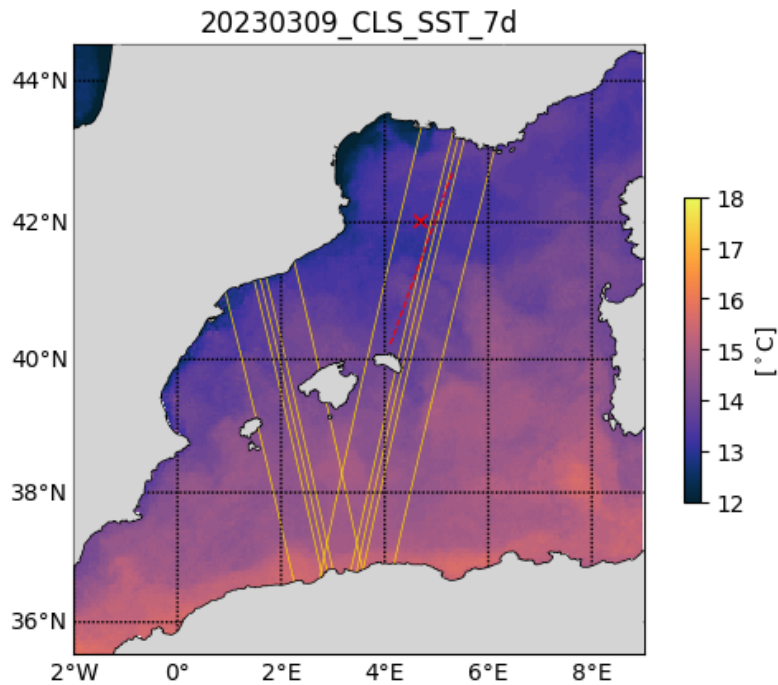
2.3 Chlorophyll analysis

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2.4 Eulerian/Lagrangian analysis

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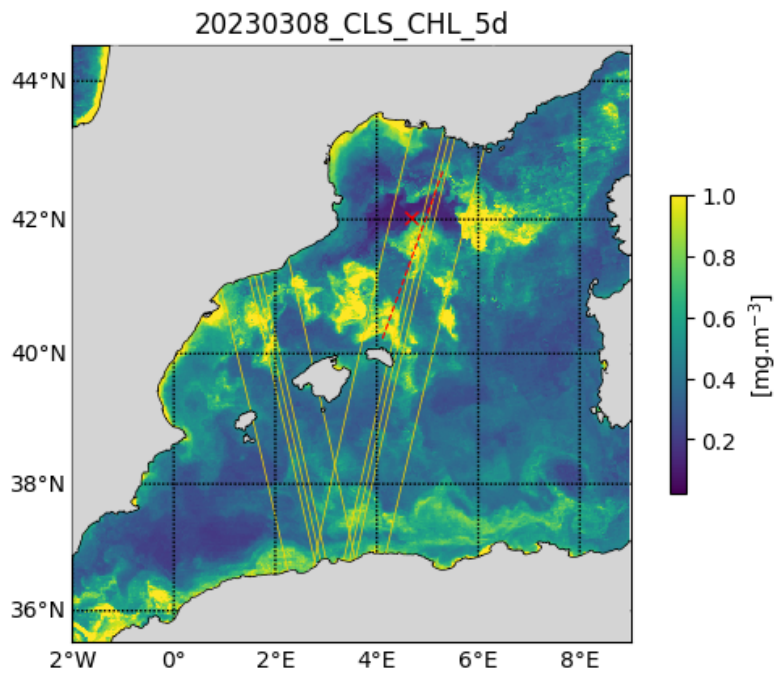
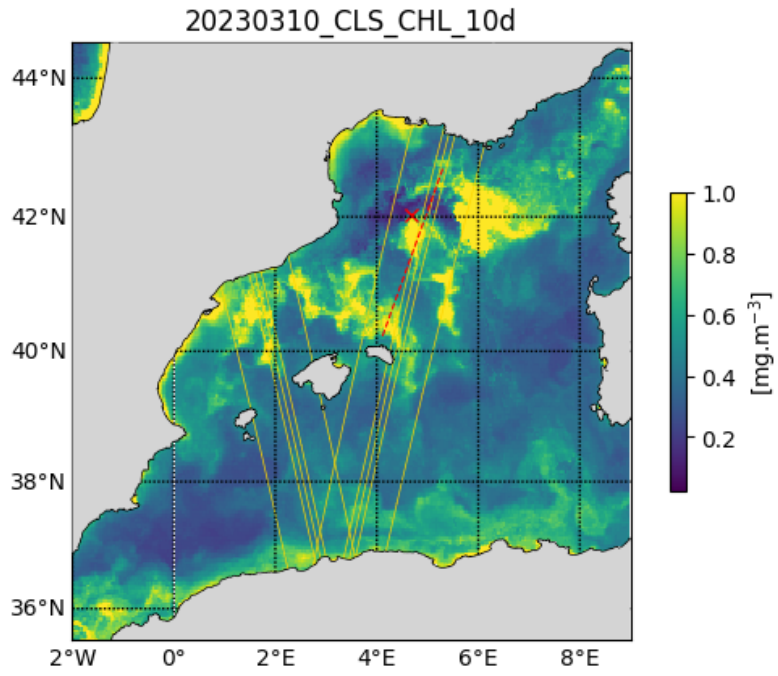
2.5 Other analysis

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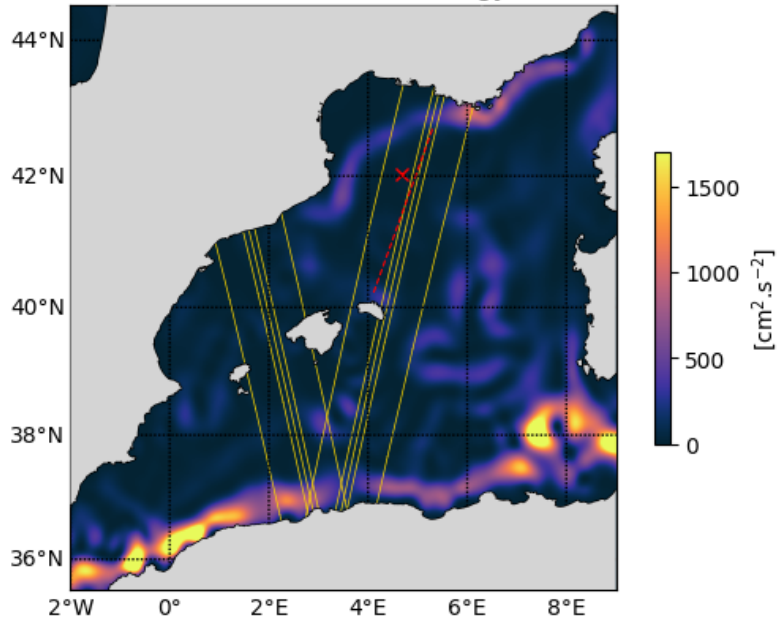
Acknowledgments

Example:

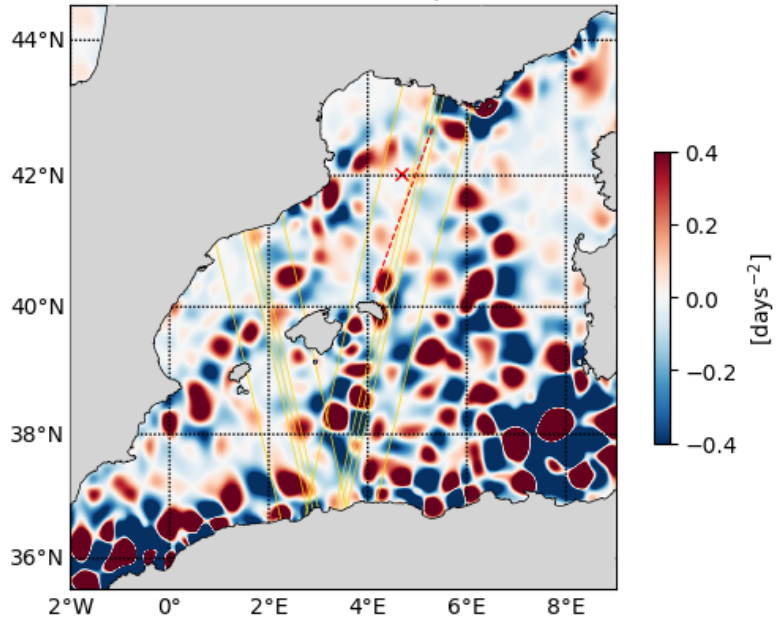
The altimetry data are the AVISO Mediterranean regional product: <http://www.aviso.altimetry.fr/index.php?id=...>
 The derived currents are processed by SPASSO to derive Eulerian and Lagrangian diagnostics of ocean circulation: OkuboWeiss parameter, particle retention time and advection, Lagrangian Coherent 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.



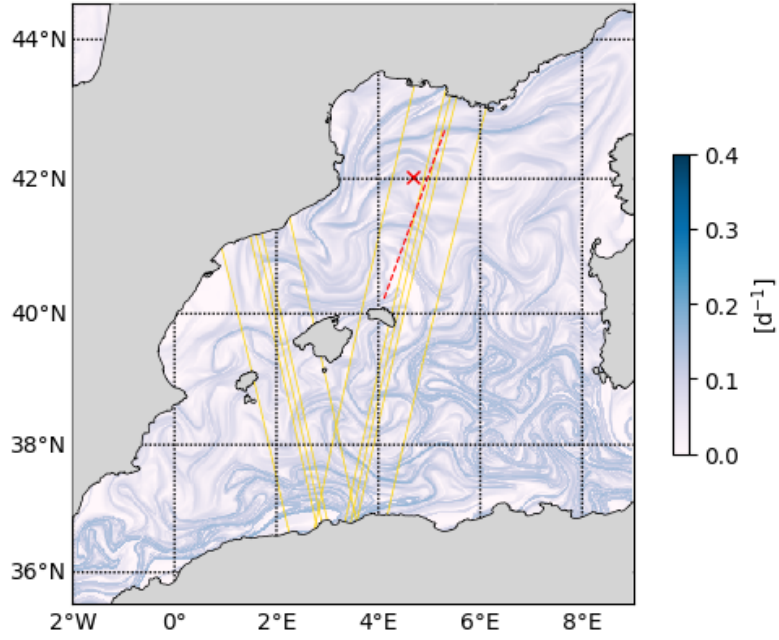
20230311 Kinetic energy



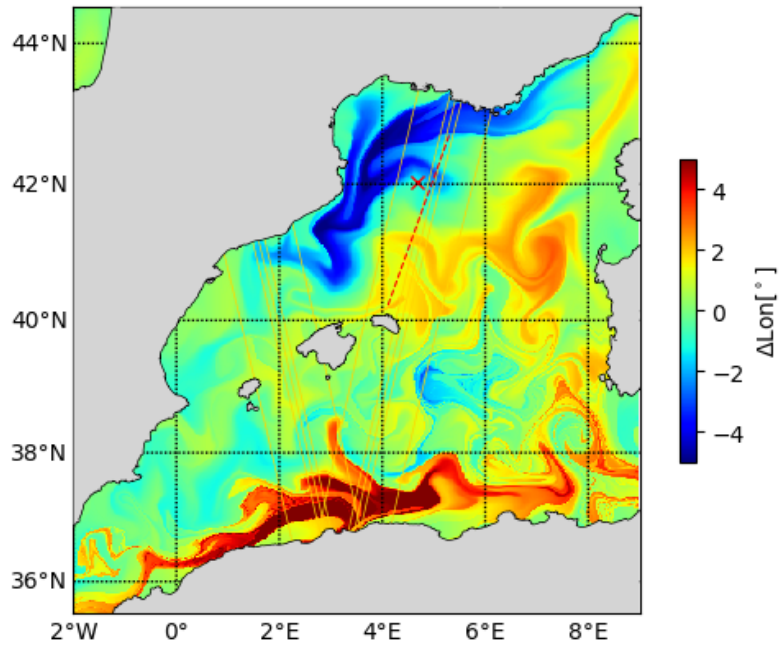
20230311 Okubo-Weiss parameter



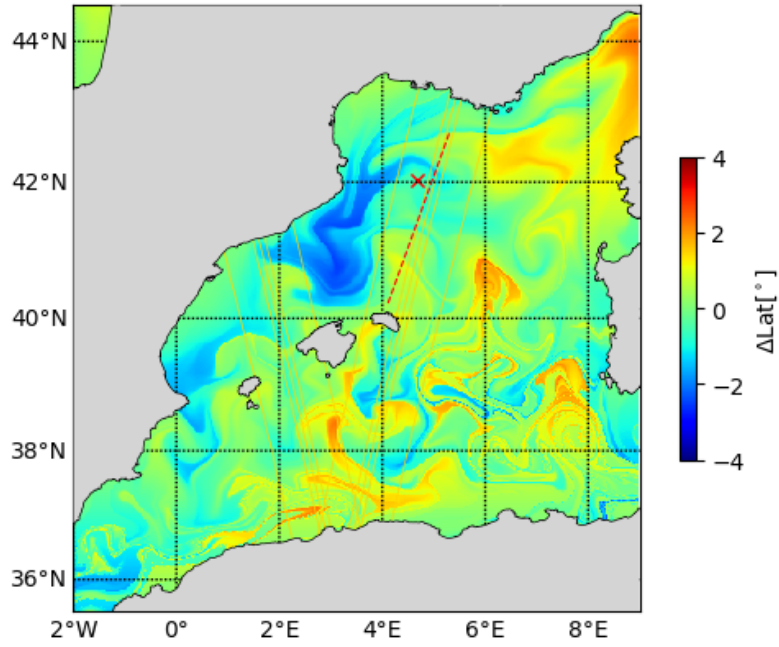
20230311 Finite Time Lyapunov Exponent



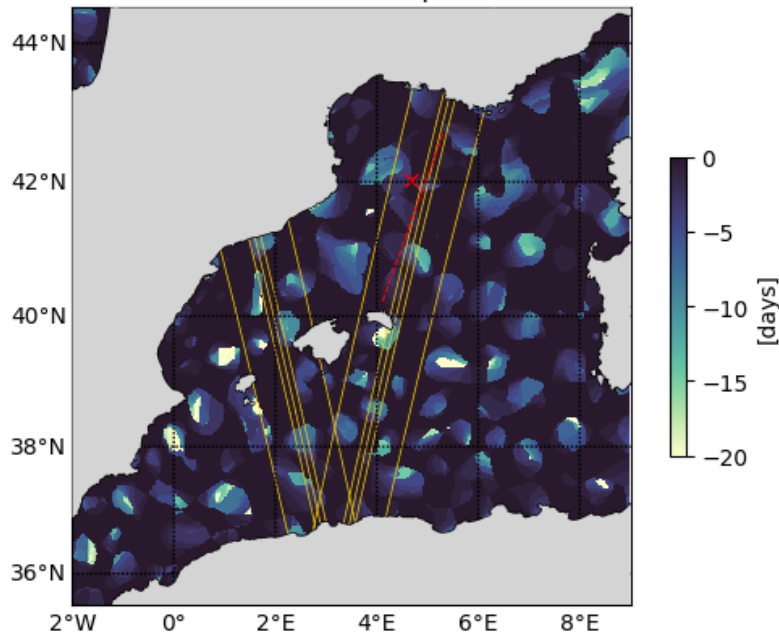
20230311 LonAdv



20230311 LatAdv



20230311 Retention parameter



20230311 Tracer advection

