

[BIOSWOT-Med]: SPASSO Images Analysis

L. Rousselet, A.M. Doglioli

February 28, 2023

Executive Summary

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1 Ongoing operations and upcoming stations

SWOT passing time (UTC) over:

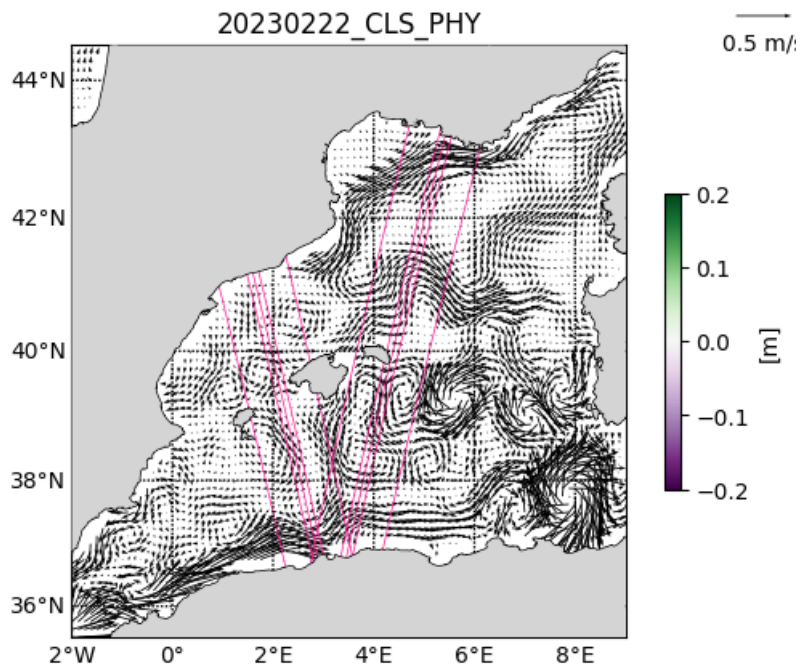
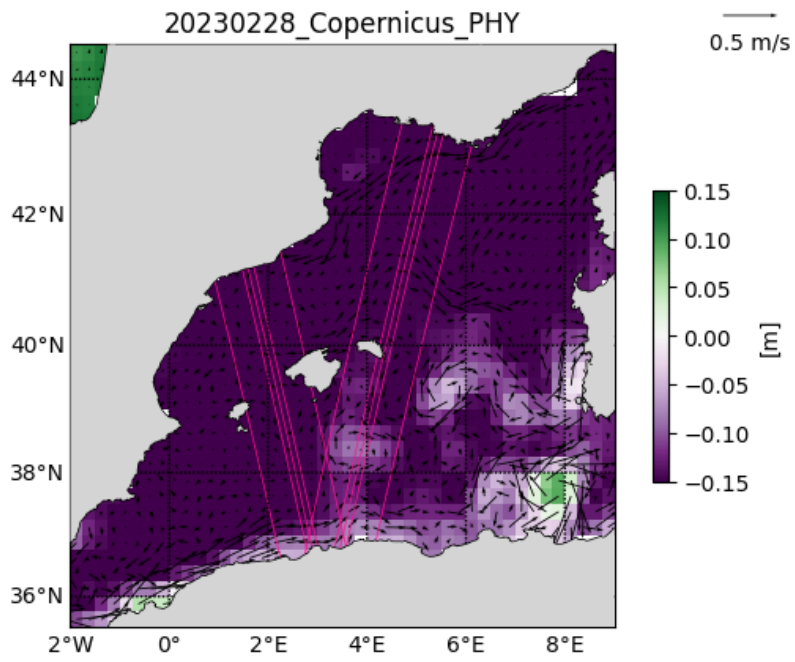
| | | |
|---------------------|---------------------|--|
| 43°N - 5°E Asc | 42.7°N - 4.8°E Asc | |
| :----- | :----- | |
| 2023-02-28 04:53:59 | 2023-02-28 04:53:59 | |
| 2023-03-01 04:44:36 | 2023-03-01 04:44:36 | |
| 2023-03-02 04:35:14 | 2023-03-02 04:35:14 | |

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2 Daily figures analysis

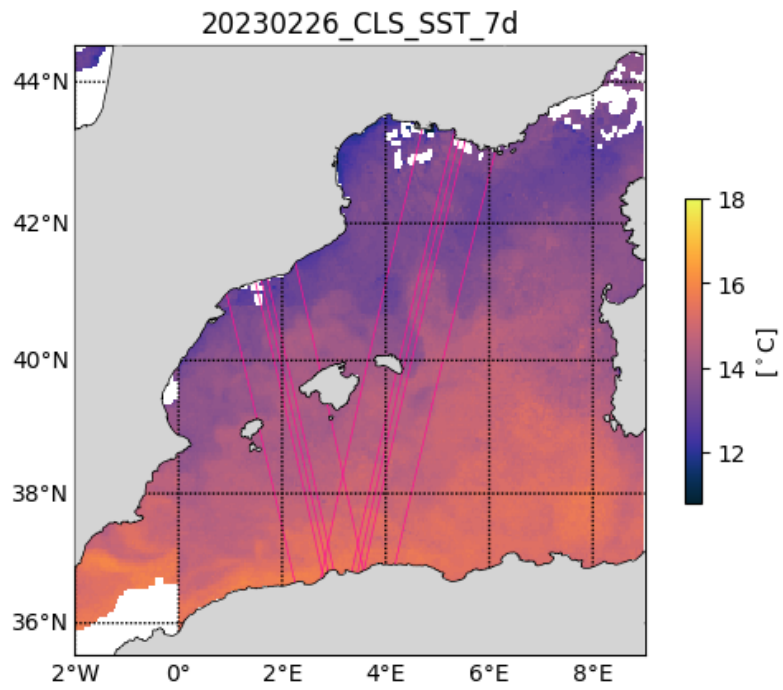
2.1 Altimetry, derived currents

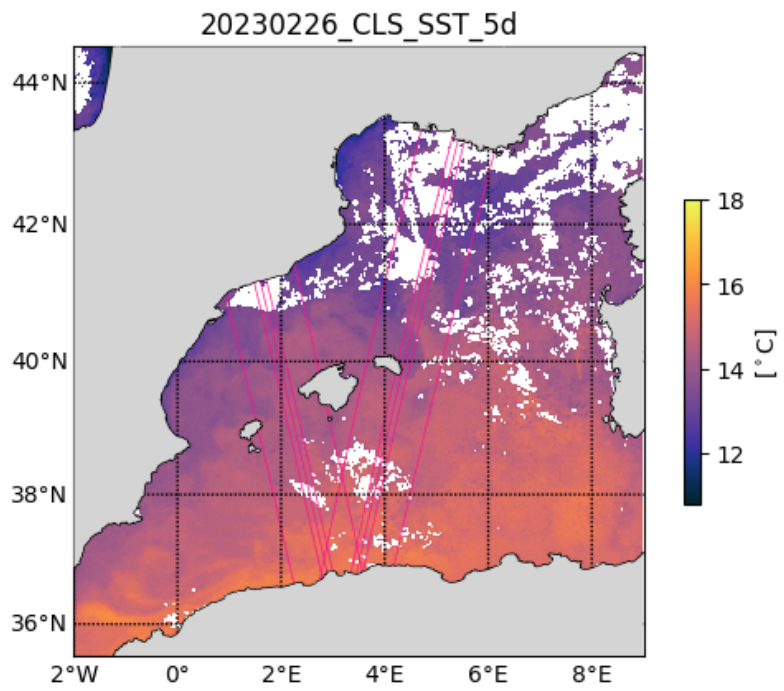
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2.2 SST analysis

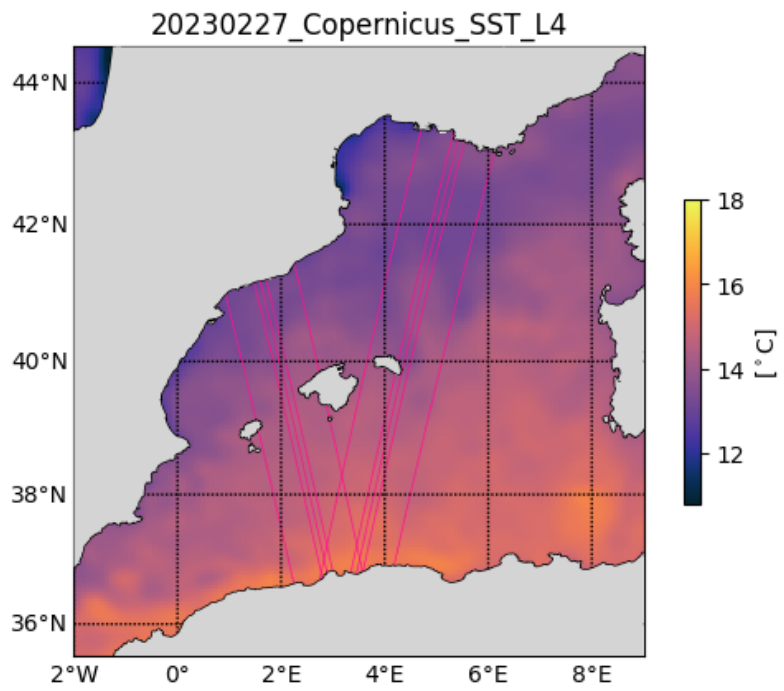
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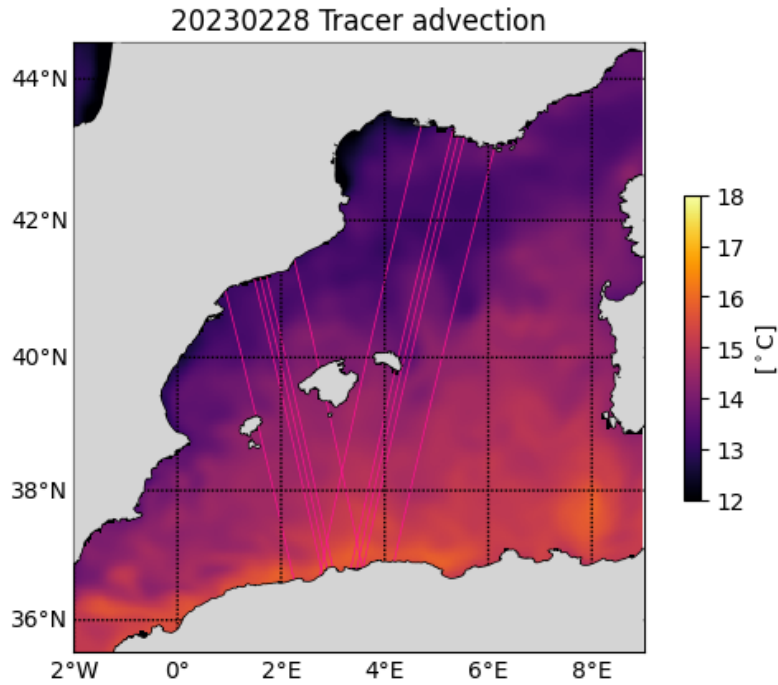
2.3 Chlorophyll analysis

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2.4 Eulerian/Lagrangian analysis

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2.5 Other analysis

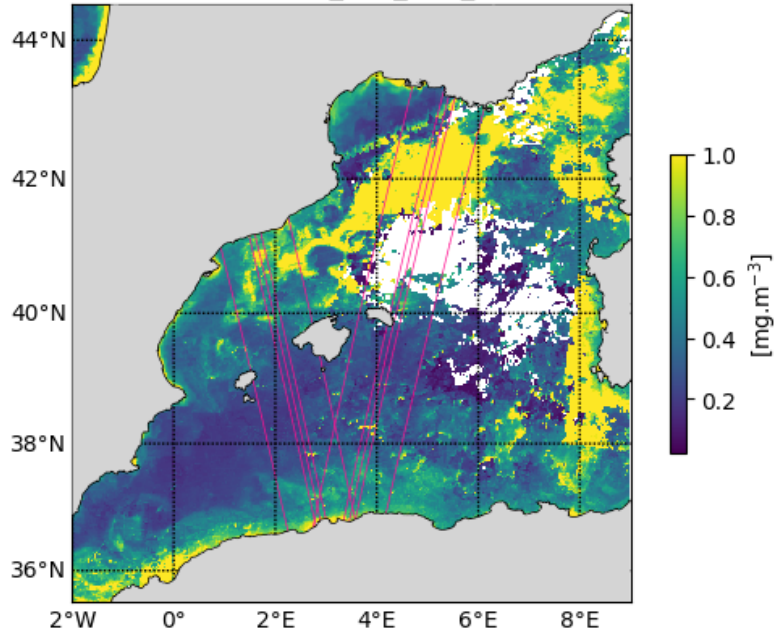
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Acknowledgments

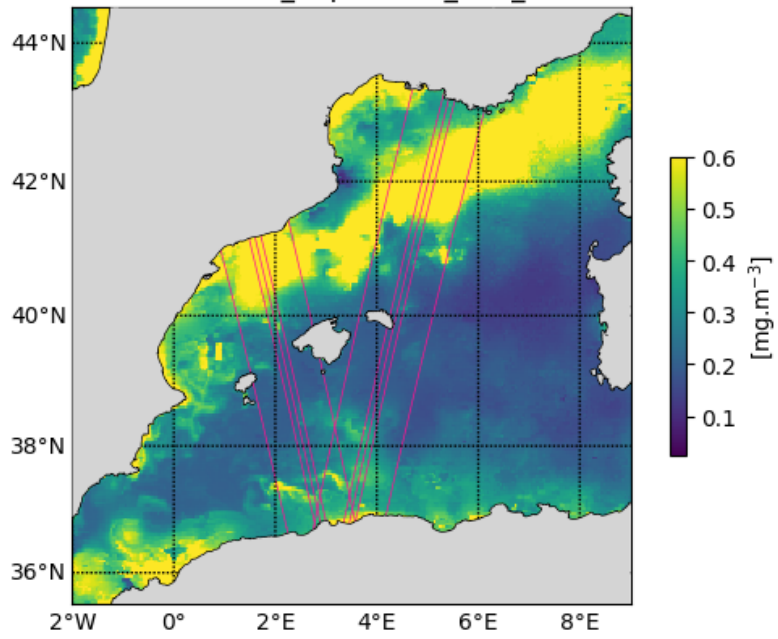
Example:

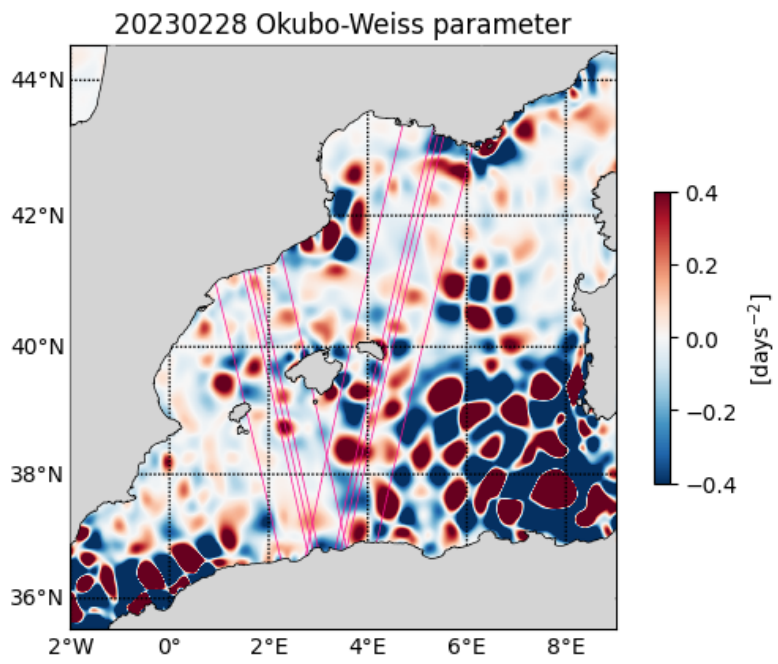
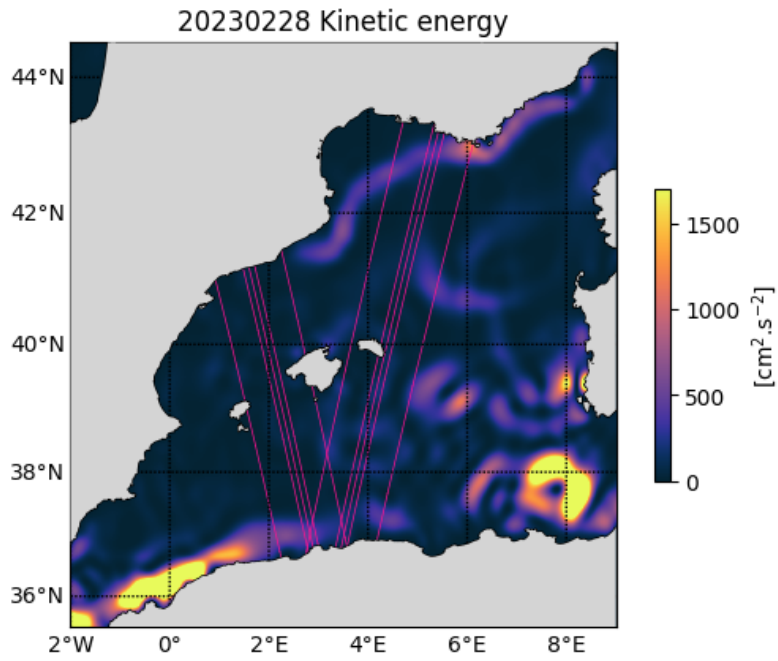
The altimetry data are the AVISO Mediterranean regional product: <http://www.aviso.altimetry.fr/index.php?id=1>
 The derived currents are processed by SPASSO to derive Eulerian and Lagrangian diagnostics of ocean circulation: OkuboWeiss parameter, particle retention time and advection, Lagrangian Coherent 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.

20230227_CLS_CHL_5d

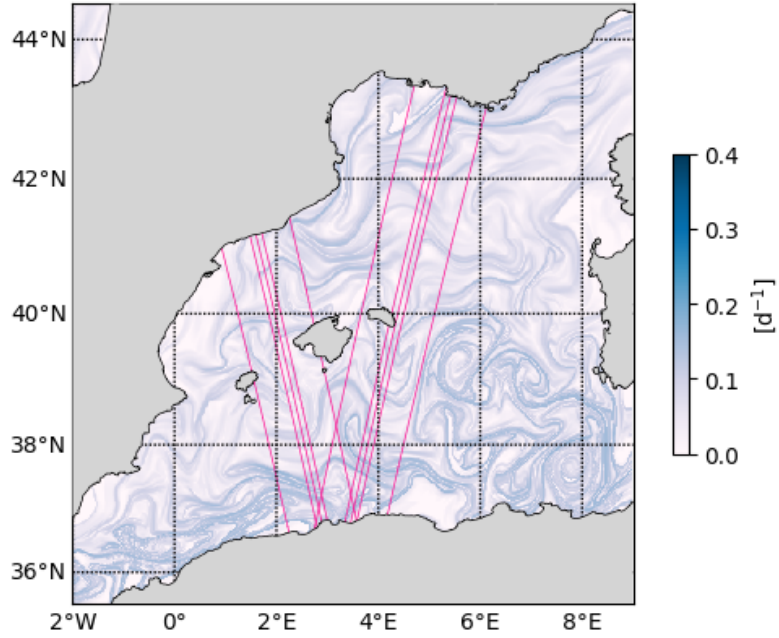


20230226_Copernicus_CHL_L4

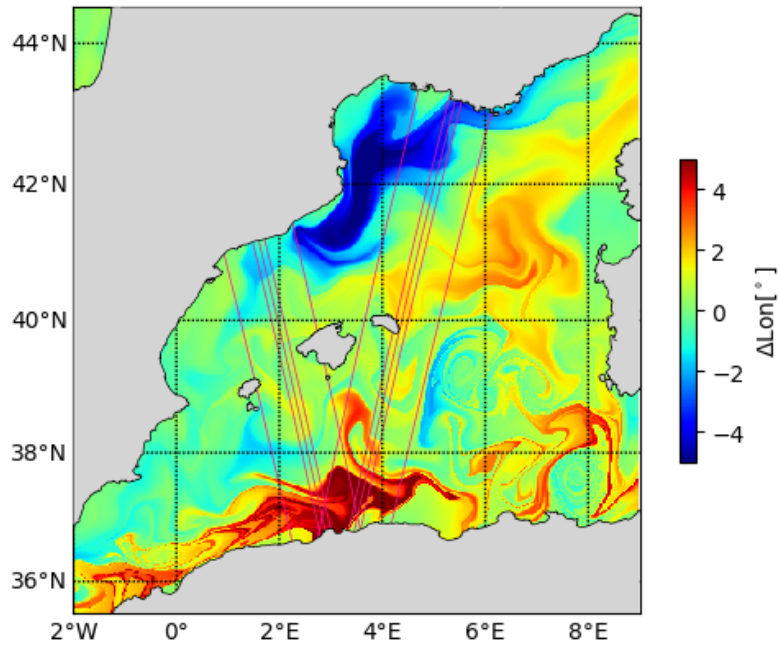




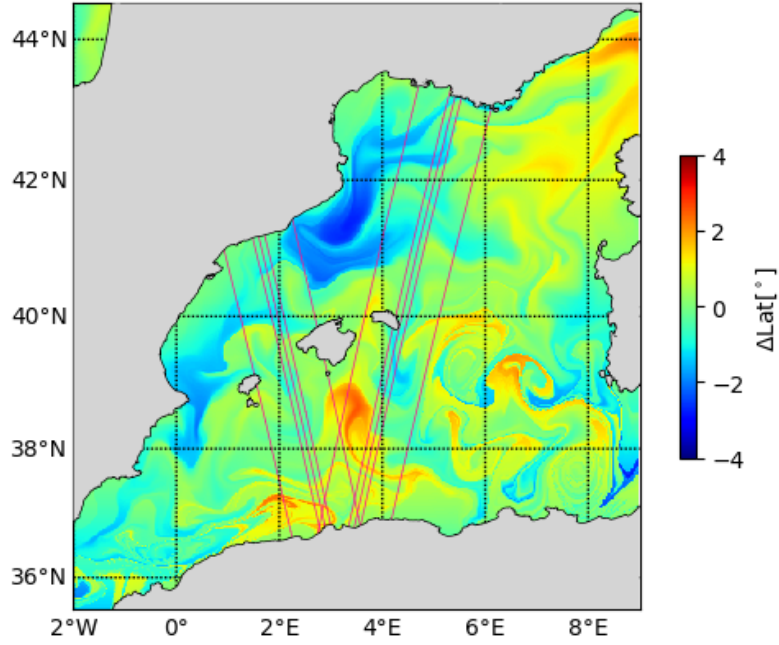
20230228 Finite Time Lyapunov Exponent



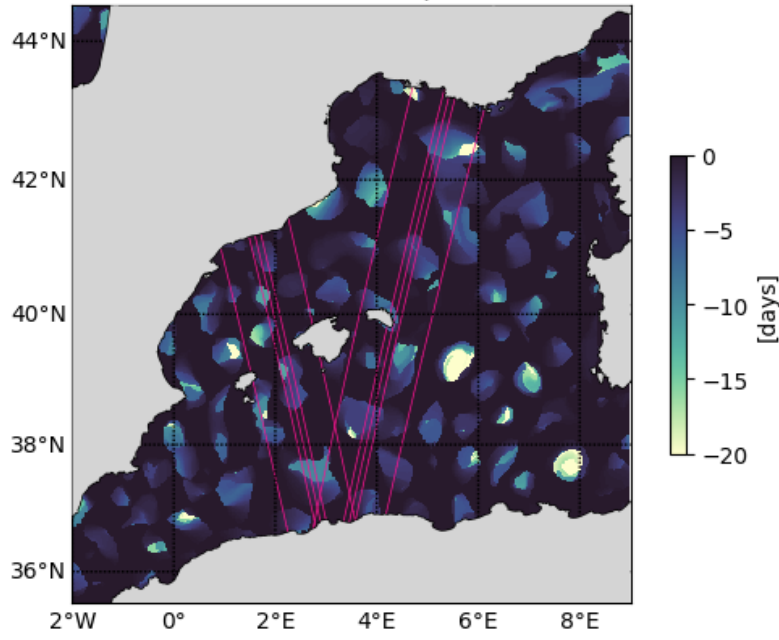
20230228 LonAdv



20230228 LatAdv



20230228 Retention parameter



20230228 Tracer advection

