

PREBIOSWOT cruise

SPASSO Images Analysis

14/05/2018 09:16 UTC

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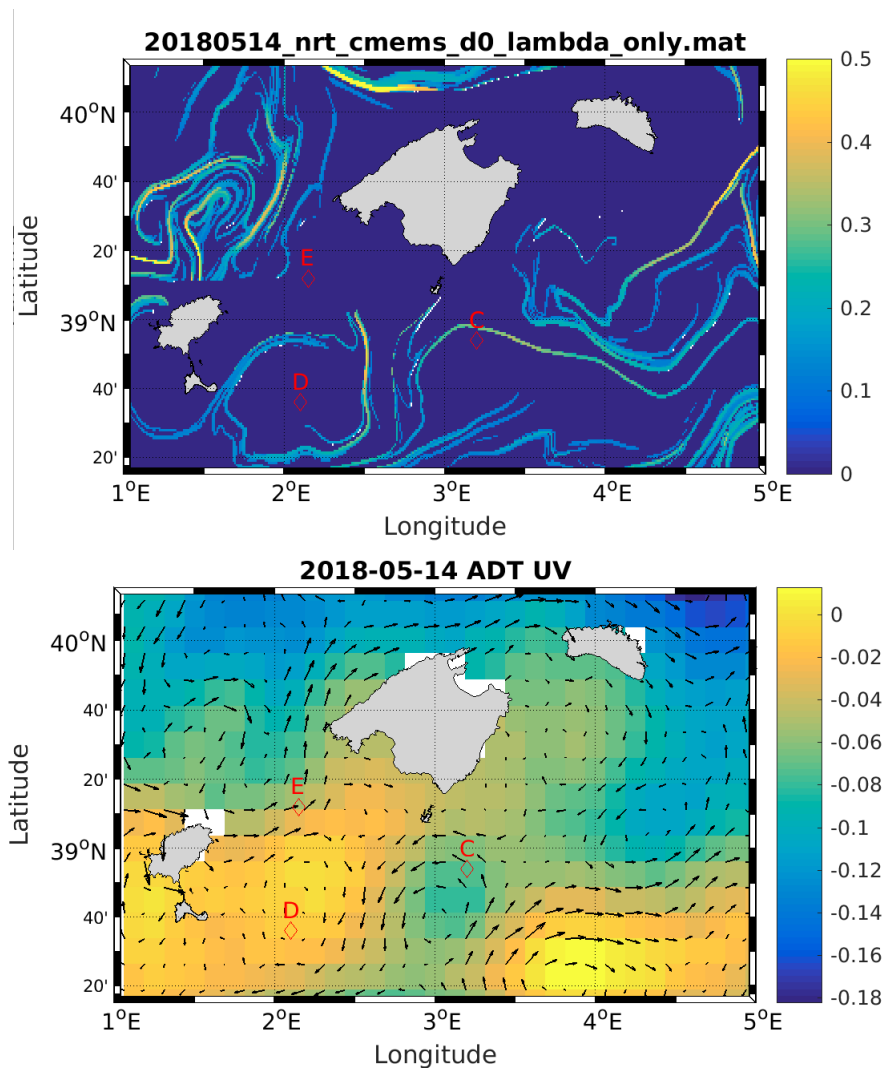
Executive Summary

The BB has sampled the distorted anticyclonic mesoscale structure, present southeast of Ibiza since April, 27, following the CDE path. The DE transect has probably encountered rather large eastward currents, when crossing the northern front of the structure.

The intercalibration GdC - BB is planned for today.

The Chl figures are cloudy.

Enjoy the end of the cruise. And see you soon on land !

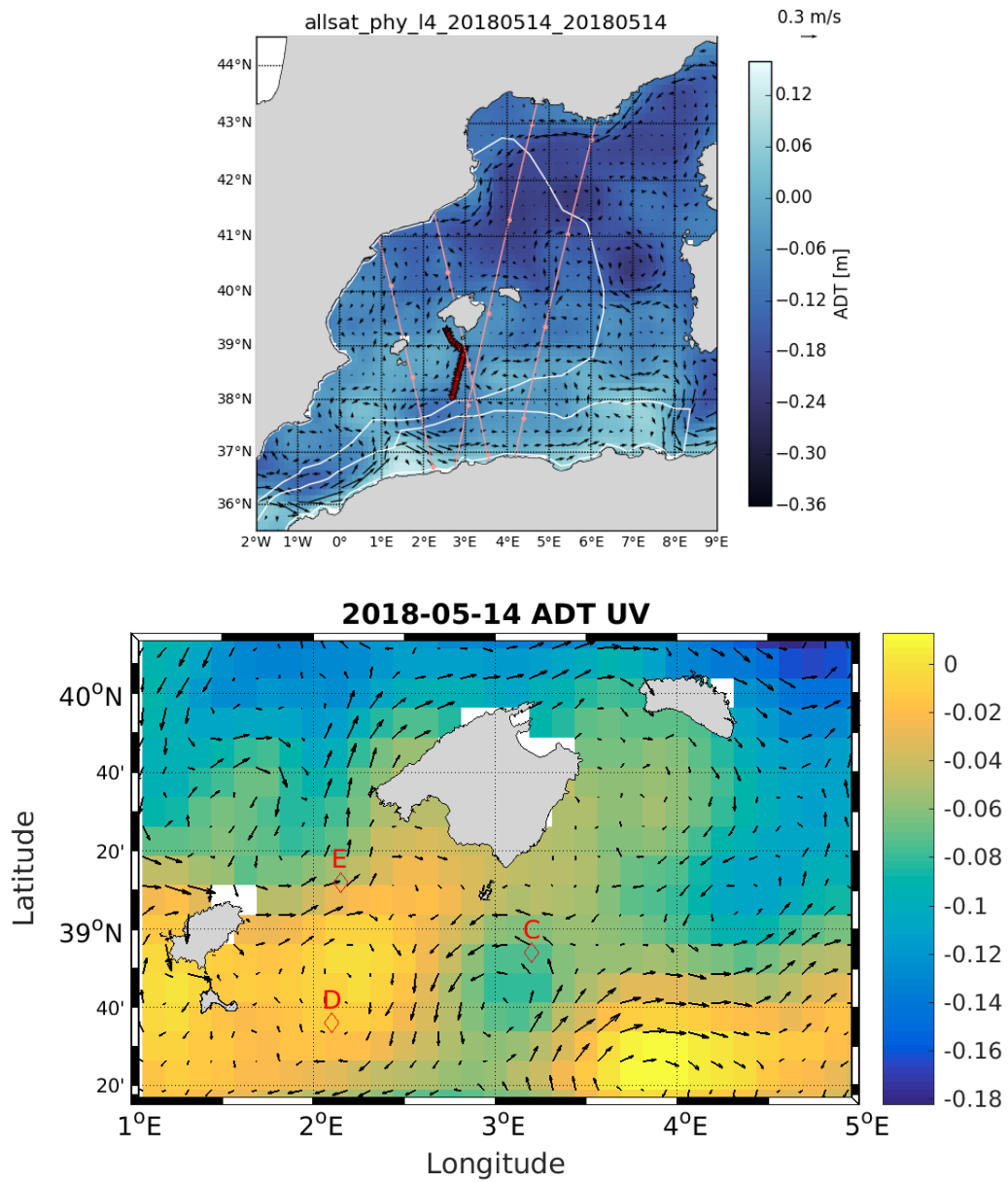


1 Ongoing operations and upcoming stations

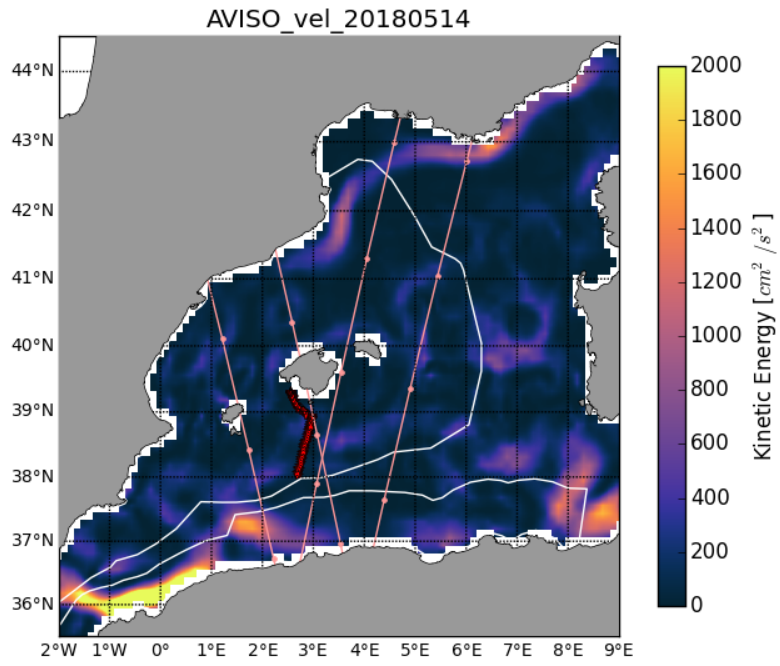
The intercalibration GdC - BB is planned for today.

2 Daily figures analysis

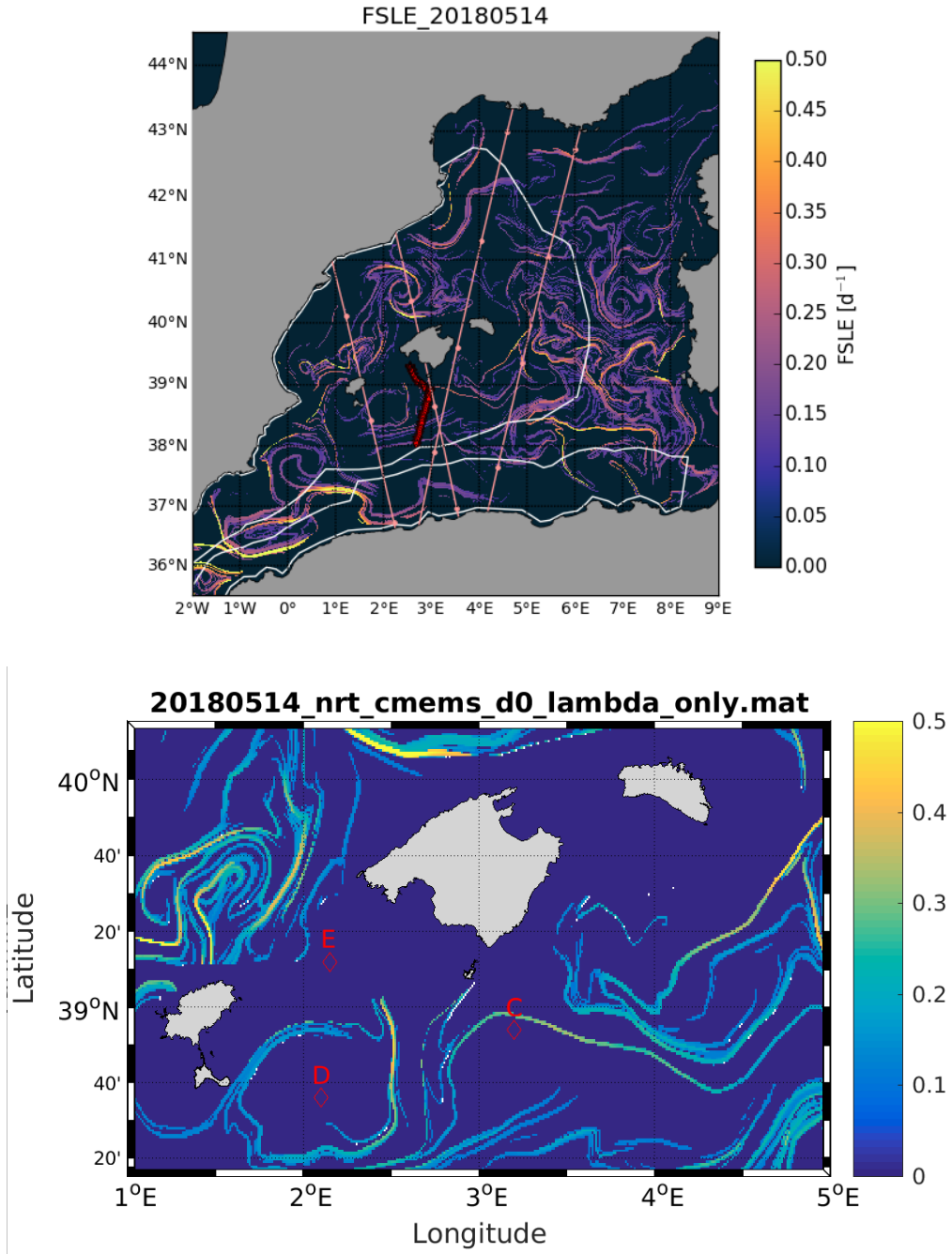
2.1 Altimetry, derived currents and Lagrangian analysis



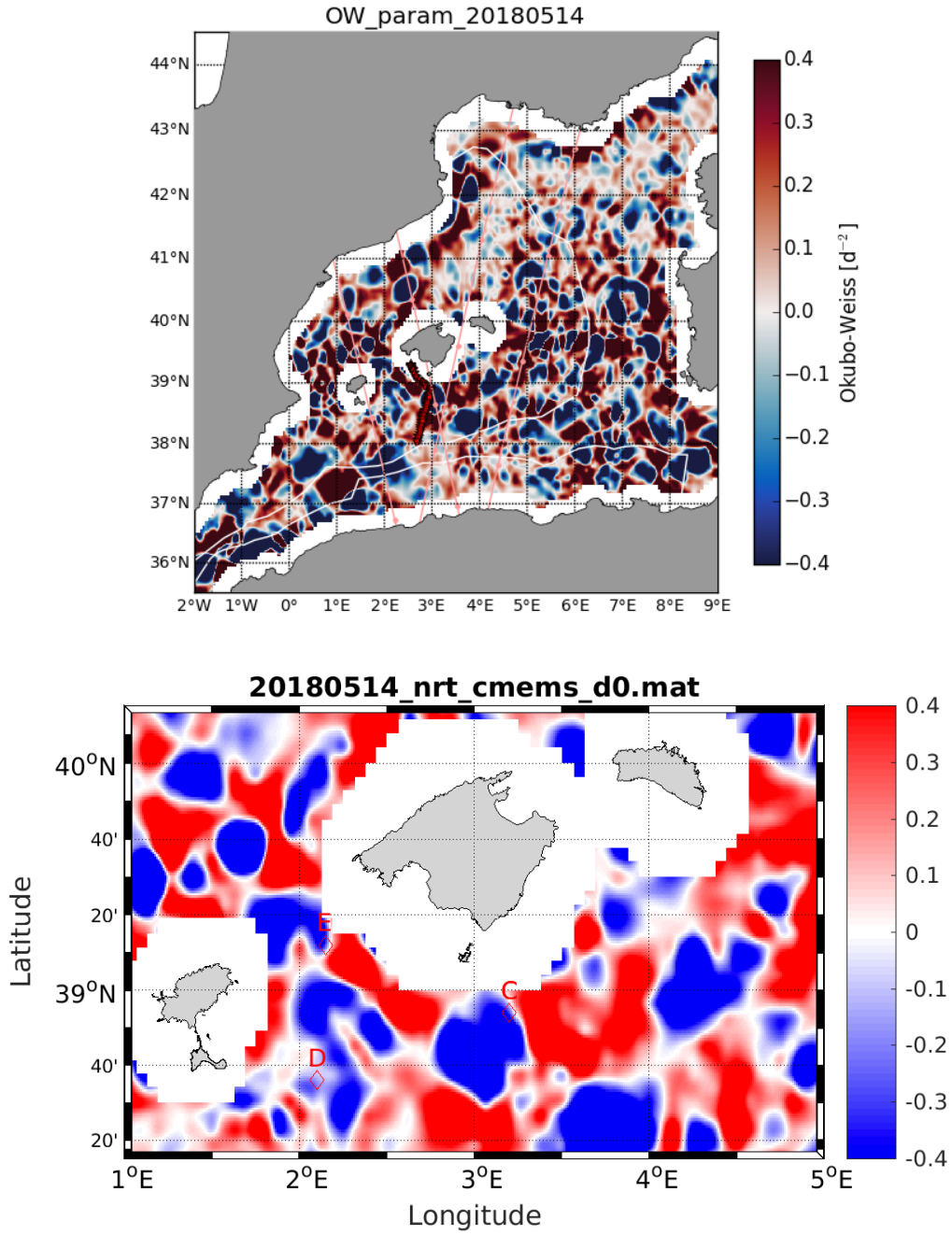
Around E, there are northeast currents.



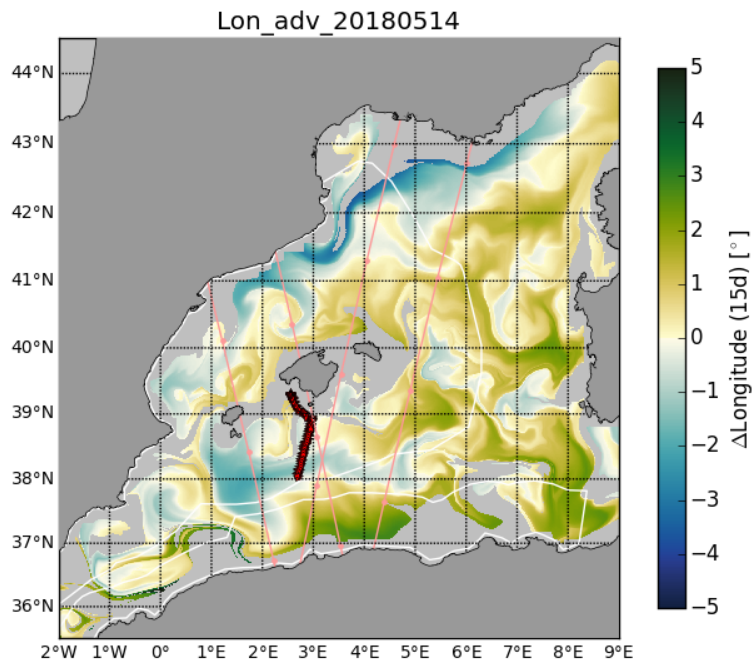
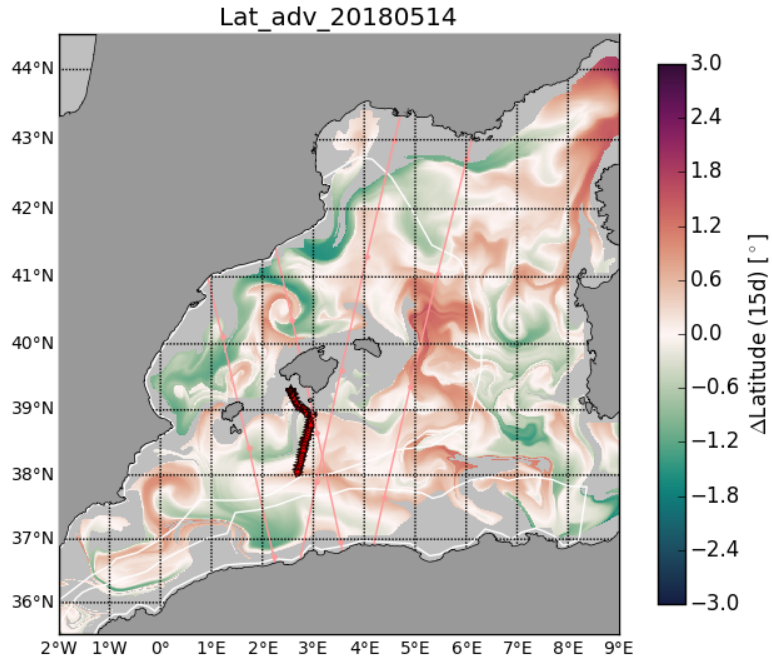
The area has low energy. Around E, the energy is slightly higher.



There should not be any FSLE structure in the area of E. Nonetheless, there is uncertainty on the extent of the coast shadows.



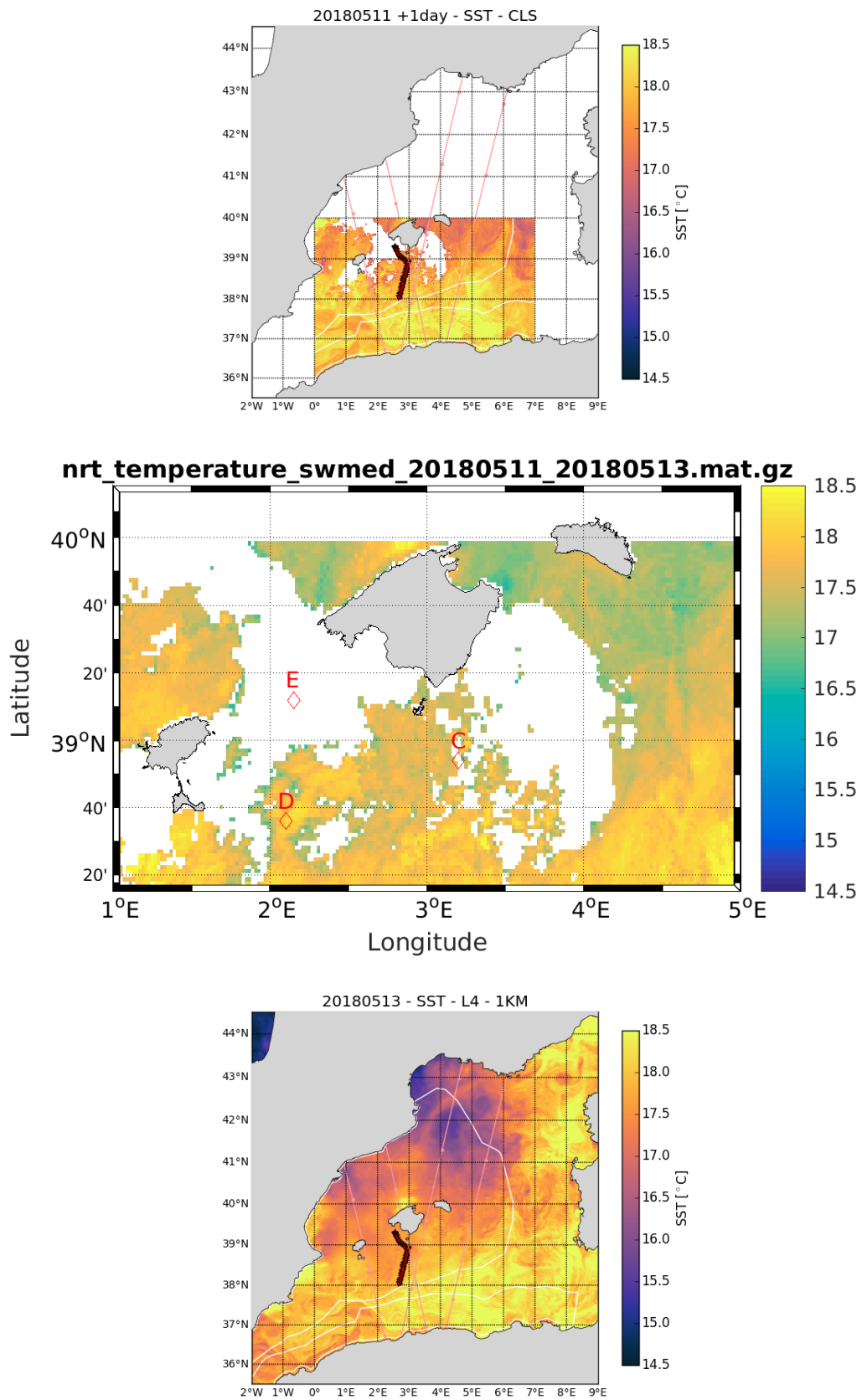
In this OW plot, E is on the eastern side of a distorted structure, which is not visible in the AVISO and FSLE plots.



The Lat_adv and Lon_adv images agree with the FSLE structures.

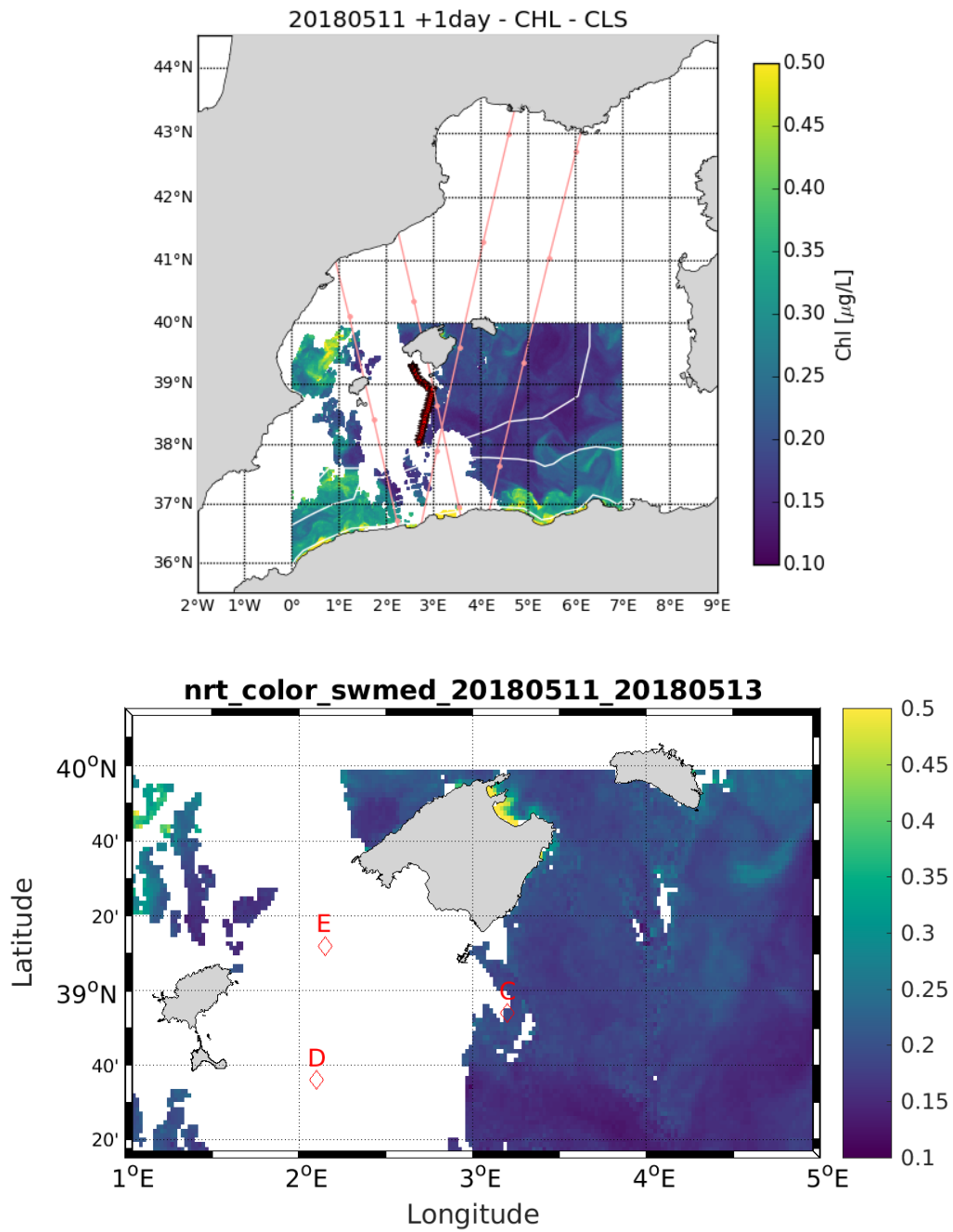
Note: the distorted mesoscale structure southeast of Ibiza is anticyclonic (and not cyclonic as mentioned in yesterday's bulletin).

2.2 SST analysis



The SST figure is cloudy in the E area.

2.3 Chlorophyll analysis



Time to come back: the Chl figures are all cloudy in the area of interest !

2.4 Gliders

The gliders are coming back. The MIO glider is coming back on the same track and should be retrieved on May 15.

2.5 Online analysis

No updated plots from Andrea and Gerald today.

Acknowledgements

The altimetry data are the AVISO Mediterranean regional product:

<http://www.aviso.altimetry.fr/index.php?id=1275>.

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.

PREBIOSWOT project webpages

(à définir)

SPASSO PREBIOSWOT webpages

<http://www.mio.univ-amu.fr/SPASSO/PREBIOSWOT/>