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*Supplement of*

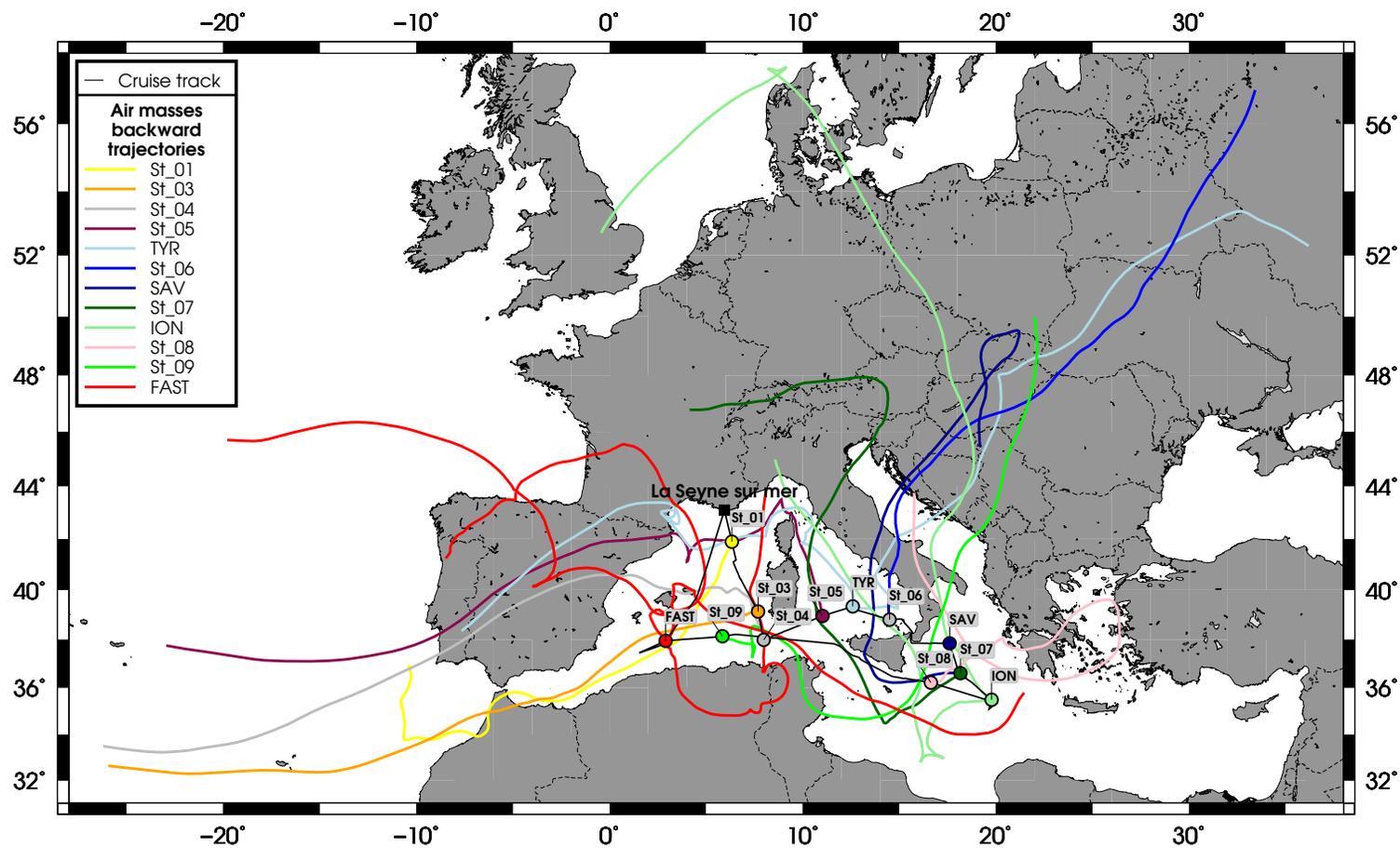
## **Characterizing the surface microlayer in the Mediterranean Sea: trace metal concentrations and microbial plankton abundance**

**Antonio Tovar-Sánchez et al.**

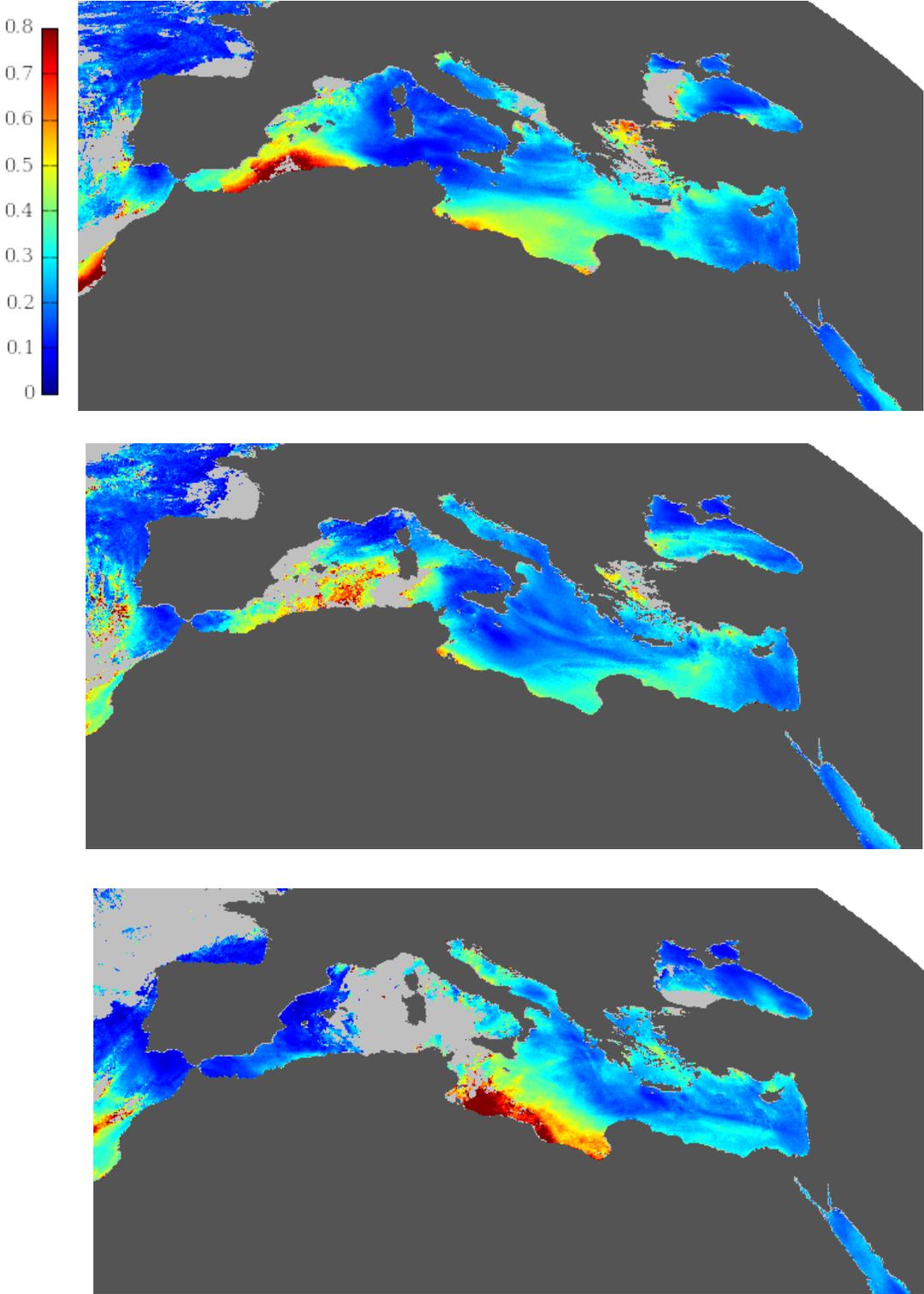
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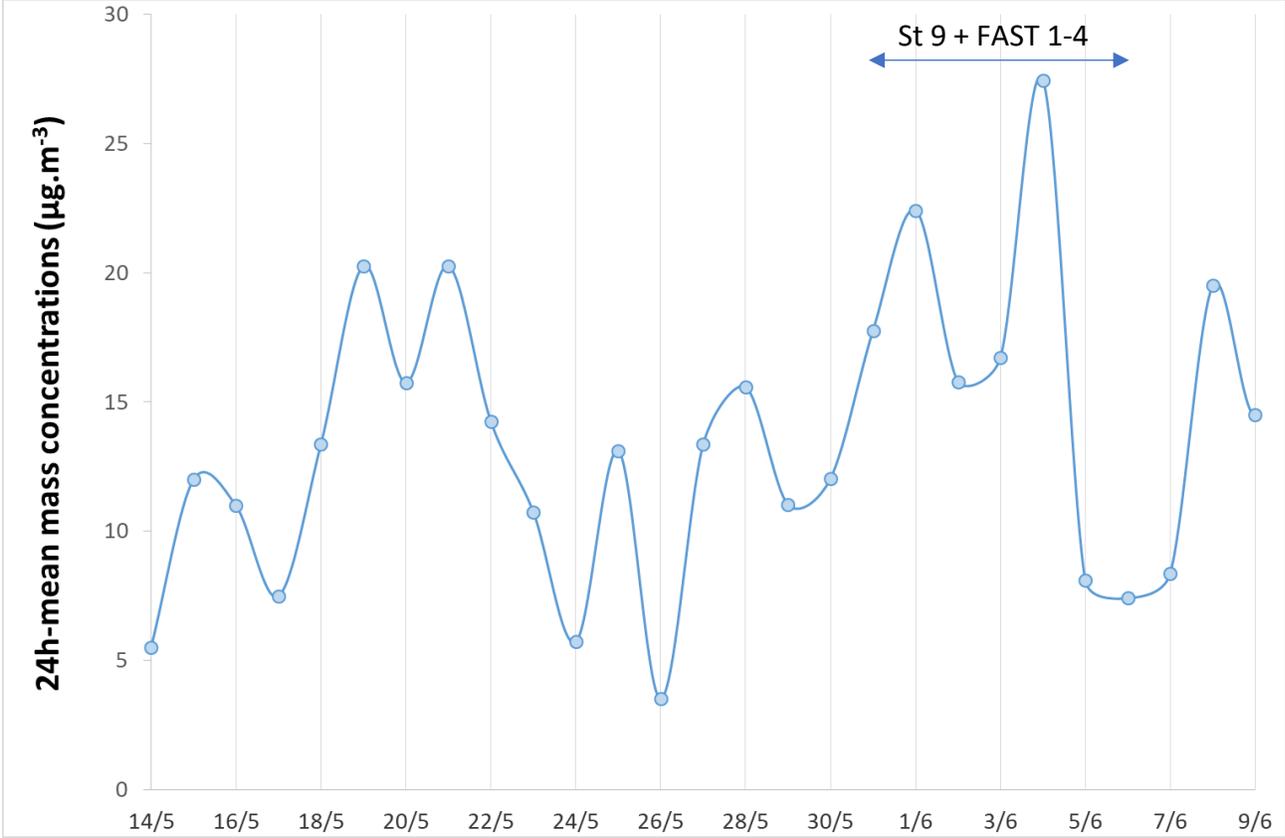
**Figure S1.** 24-hour backward trajectory of air mass reaching all stations. Air mass trajectories are obtained from the NOAA Hybrid Single-Particle Lagrangian Integrated Trajectory Model (HYSPLIT) available at [http://ready.arl.noaa.gov/HYSPLIT\\_traj.php](http://ready.arl.noaa.gov/HYSPLIT_traj.php), constrained by the meteorological model WRF.



**Figure S2.** Daily aerosol optical depth at 550 nm from MSG/Seviri (03/06/2017, 04/06/2017 and 05/06/2017)



**Figure S3:** 24h-mean mass concentrations in aerosols during the cruise. The period at station 9 and FAST 1-4 is displayed.



**Figure S4.** Accumulated rainfall (mm/period) during the night between June 3rd (12h00-UTC) and 4th 2017 (00h00 – UTC) and position of R/V at the Fast Station. The rainfall rates are estimated from the radar European composite products provided by the Odyssey system.

