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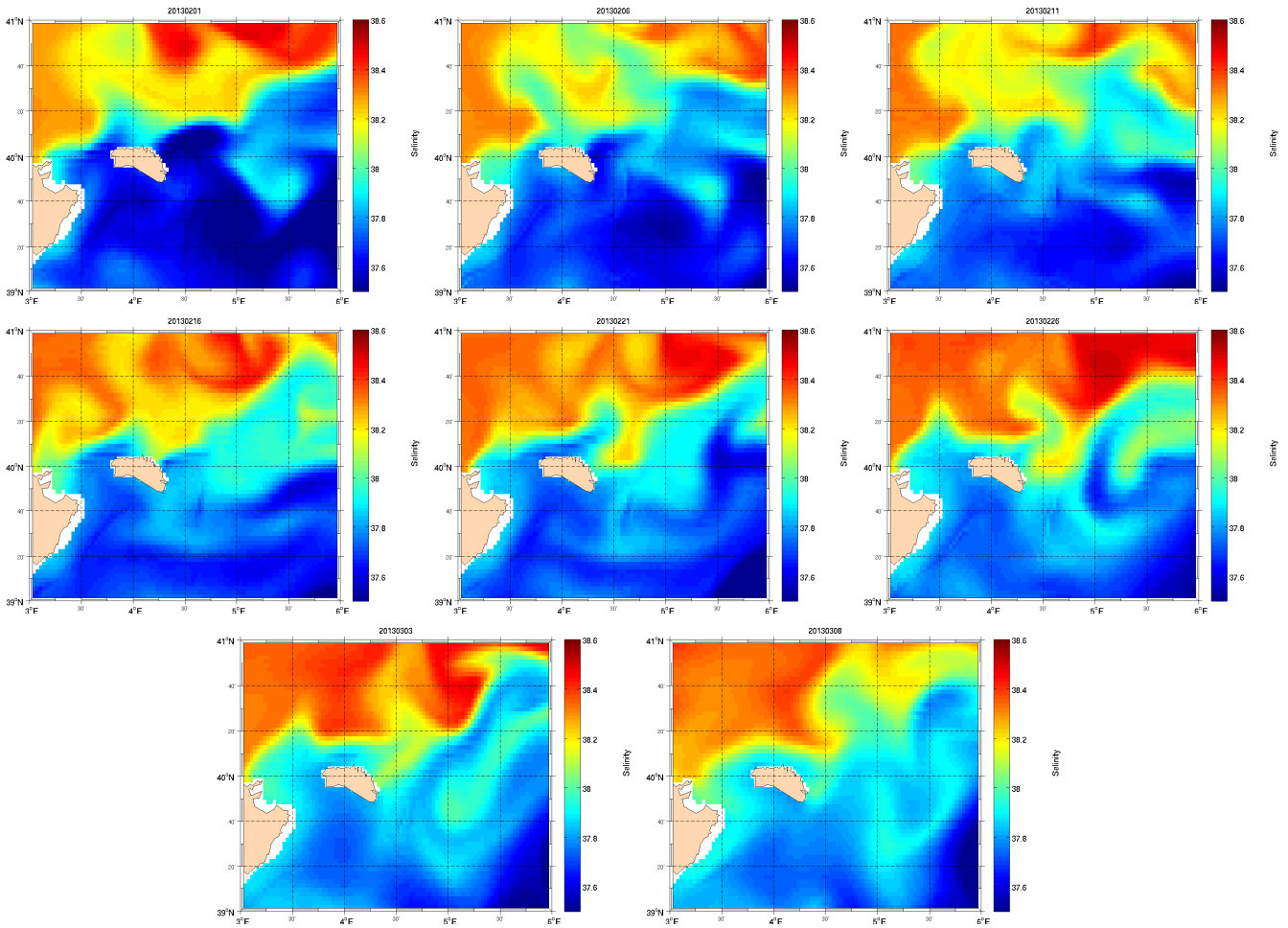


*Supplement of*

## **Observations of a phytoplankton spring bloom onset triggered by a density front in NW Mediterranean**

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**Fig. 1.** Modeled sea surface salinity for the period of the glider round trip. Daily averages. Dates of reference are indicated on the top of each map (5 days steps). Map series well evidences the instability of the frontal structure. In particular a frontal meander appear at the end of February in the area (just east of Mallorca Island) where the glider records the highest concentration of Chl-a about 1 week after. This, in addition to main results, further suggests a relation between frontal dynamics and bloom triggering during favourable period