

List of peer-reviewed publications

- [1] C. Troupin, A. Pascual, S. Ruiz, A. Olita, B. Casas, F. Margirier, P.-M. Poulain, G. Notarstefano, M. Torner, J. G. Fernández, M. J. Rújula, C. Muñoz, E. Alou, I. Ruiz, A. Tovar-Sánchez, J. T. Allen, A. Mahadevan, and J. Tintoré, Jan 2019. The AlborEX dataset: sampling of sub-mesoscale features in the Alboran Sea. *Earth System Science Data*, 11(1):129–145. ISSN 1866-3516. doi:10.5194/essd-11-129-2019. URL <https://www.earth-syst-sci-data.net/11/129/2019/>.
- [2] A. Barth, A. Mahadevan, A. Pascual, S. Ruiz, and C. Troupin, 2018. The 48th Liege Colloquium: Submesoscale processes: mechanisms, implications, and new frontiers. *Ocean Dynamics*, 68(8):1067–1069. doi:10.1007/s10236-018-1173-5. URL <https://link.springer.com/article/10.1007/s10236-018-1173-5>.
- [3] A. Iona, A. Theodorou, S. Sofianos, S. Watelet, C. Troupin, and J.-M. Beckers, 2018. Mediterranean Sea climatic indices: monitoring long-term variability and climate changes. *Earth System Science Data*, 10(4):1829–1842. doi:10.5194/essd-10-1829-2018. URL <https://www.earth-syst-sci-data.net/10/1829/2018/essd-10-1829-2018.html>.
- [4] A. Iona, A. Theodorou, S. Watelet, C. Troupin, J.-M. Beckers, and S. Simoncelli, Jul 2018. Mediterranean Sea Hydrographic Atlas: towards optimal data analysis by including time-dependent statistical parameters. *Earth System Science Data*, 10(3):1281–1300. ISSN 1866-3516. doi:10.5194/essd-10-1281-2018. URL <https://www.earth-syst-sci-data.net/10/1281/2018/>.
- [5] S. Ruiz, M. Claret, A. Pascual, A. Olita, C. Troupin, A. Capet, A. Tovar-Sanchez, J. Allen, P.-M. Poulain, J. Tintoré, and A. Mahadevan, 2018. Effects of oceanic meso- and submeso-scale frontal processes on the vertical transport of phytoplankton. *Journal of Geophysical Research*. Under revision.
- [6] F. Lenartz, C. Troupin, and W. Lefebvre, Sep 2017. Data interpolating variational analysis for the generation of atmospheric pollution maps at various scales. In *International Technical Meeting on Air Pollution Modelling and its Application*, pages 231–235. Springer International Publishing. ISBN 9783319576459. ISSN 2213-8692. doi:10.1007/978-3-319-57645-9_37. URL https://link.springer.com/chapter/10.1007/978-3-319-57645-9_37.
- [7] M. Licer, B. Mourre, C. Troupin, A. Kriemeyer, A. Jansá, and J. Tintoré, Mar 2017. Numerical study of Balearic meteotsunami generation and propagation under synthetic gravity wave forcing. *Ocean Modelling*, 111:38–45. ISSN 1463-5003. doi:10.1016/j.ocemod.2017.02.001. URL <http://www.sciencedirect.com/science/article/pii/S1463500317300136>.
- [8] A. Pascual, S. Ruiz, A. Olita, C. Troupin, M. Claret, B. Casas, B. Mourre, P.-M. Poulain, A. Tovar-Sanchez, A. Capet, E. Mason, J. Allen, A. Mahadevan, and J. Tintoré, 2017. A multiplatform experiment to unravel meso- and submesoscale processes in an intense front (AlborEx). *Frontiers in Marine Science*, 4(39):1–16. doi:10.3389/fmars.2017.00039. URL <http://journal.frontiersin.org/article/10.3389/fmars.2017.00039/full>.
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- [11] M. Juza, B. Mourre, L. Renault, S. Gómara, K. Sebastián, S. Lora, J. P. Beltran, B. Frontera, B. Garau, C. Troupin, M. Torner, E. Heslop, B. Casas, R. Escudier, G. Vizoso, and J. Tintoré, 2016. SOCIB operational ocean forecasting system and multi-platform validation in the Western Mediterranean Sea. *Journal of Operational Oceanography*, 9(sup1):s155–s166. doi:10.1080/1755876X.2015.1117764. URL <http://www.tandfonline.com/doi/full/10.1080/1755876X.2015.1117764#.V4M5xP7HjGc>.

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- [16] M. Juza, B. Mourre, L. Renault, S. Gómara, K. Sebastián, S. Lora, J. Beltran, B. Frontera, C. Troupin, M. Torner, E. Heslop, G. Vizoso, B. Casas, and J. Tintoré, October 28–30 2015. WMOP: Western Mediterranean SOCIB high-resolution ocean forecasting system. In E. Buch, Y. Antoniou, D. Eparkhina, and G. Nolan, editors, *Proceedings of the Seventh EuroGOOS International Conference*, pages 347–355. EuroGOOS, Lisbon, Portugal. URL <http://eurogoos.eu/download/publications/EuroGOOS-2014-Conference-Proceedings.pdf>. ISBN 978-2-9601883-1-8.
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