

List of peer-reviewed publications

- [1] 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](https://doi.org/10.1007/s10236-018-1173-5). URL <https://link.springer.com/article/10.1007/s10236-018-1173-5>.
- [2] 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 Discussions*, 2018:1–18. doi:[10.5194/essd-2018-51](https://doi.org/10.5194/essd-2018-51). URL <https://www.earth-syst-sci-data-discuss.net/essd-2018-51/>.
- [3] A. Iona, A. Theodorou, S. Watelet, C. Troupin, J.-M. Beckers, and S. Simoncelli, Feb 2018. Mediterranean Sea Hydrographic Atlas: towards optimal data analysis by including time-dependent statistical parameters. *Earth System Science Data*, 10:1–29. ISSN 1866-3591. doi:[10.5194/essd-10-1281-2018](https://doi.org/10.5194/essd-10-1281-2018). URL <https://www.earth-syst-sci-data.net/10/1281/2018/>.
- [4] 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.
- [5] 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](https://doi.org/10.1007/978-3-319-57645-9_37). URL https://link.springer.com/chapter/10.1007/978-3-319-57645-9_37.
- [6] M. Licer, B. Mourre, C. Troupin, A. Kriemeyer, A. Jansá, and J. Tintoré, Mar 2017. Numerical study of balearic me-teotsunami generation and propagation under synthetic gravity wave forcing. *Ocean Modelling*, 111:38–45. ISSN 1463-5003. doi:[10.1016/j.ocemod.2017.02.001](https://doi.org/10.1016/j.ocemod.2017.02.001). URL <http://www.sciencedirect.com/science/article/pii/S1463500317300136>.
- [7] 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](https://doi.org/10.3389/fmars.2017.00039). URL <http://journal.frontiersin.org/article/10.3389/fmars.2017.00039/full>.
- [8] M. Juza, R. Escudier, A. Pascual, M.-I. Pujol, G. Taburet, C. Troupin, B. Mourre, and J. Tintoré, 2016. Impacts of reprocessed altimetry on the surface circulation and variability of the Western Alboran Gyre. *Advances in Space Research*, 58(3):277–288. doi:[10.1016/j.asr.2016.05.026](https://doi.org/10.1016/j.asr.2016.05.026). URL <http://www.sciencedirect.com/science/article/pii/S0273117716302125>.
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- [10] M. Sotillo, E. Garcia-Ladona, A. Orfila, P. Rodríguez-Rubio, J. C. Maraver, D. Conti, E. Padorno, J. Jiménez, E. Capó, F. Pérez, J. Sayol, F. J. de los Santos, A. Amo, A. Rietz, C. Troupin, J. Tintoré, and E. Álvarez Fanjul, 2016. The MEDESS-GIB database: Tracking the Atlantic water inflow. *Earth System Science Data*, 8:141–149. doi:[10.5194/essd-8-141-2016](https://doi.org/10.5194/essd-8-141-2016). URL <http://www.earth-syst-sci-data.net/8/141/2016/>.
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- [13] C. Troupin, J. Beltran, E. Heslop, M. Torner, B. Garau, J. Allen, S. Ruiz, and J. Tintoré, 2015. A toolbox for glider data processing and management. *Methods in Oceanography*, 13-14:13–23. doi:[10.1016/j.mio.2016.01.001](https://doi.org/10.1016/j.mio.2016.01.001). URL <http://www.sciencedirect.com/science/article/pii/S2211122015300207>.
- [14] C. Troupin, A. Pascual, G. Valladeau, I. Pujol, A. Lana, E. Heslop, S. Ruiz, M. Torner, N. Picot, and J. Tintoré, 2015. Illustration of the emerging capabilities of SARAL/AltiKa in the coastal zone using a multi-platform approach. *Advances in Space Research*, 55(1):51–59. doi:[10.1016/j.asr.2014.09.011](https://doi.org/10.1016/j.asr.2014.09.011). URL <http://www.sciencedirect.com/science/article/pii/S0273117714005754>.
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- [17] A. Capet, E. Mason, V. Rossi, C. Troupin, Y. Faugère, I. Pujol, and A. Pascual, 2014. Implications of refined altimetry on estimates of mesoscale activity and eddy-driven offshore transport in the Eastern Boundary Upwelling Systems. *Geophysical Research Letters*, 41(21):7602–7610. doi:[10.1002/2014GL061770](https://doi.org/10.1002/2014GL061770). URL <http://onlinelibrary.wiley.com/doi/10.1002/2014GL061770/abstract>.
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- [19] M. Benavides, J. Arístegui, N. S. R. Agawin, X. A. Álvarez Salgado, M. Álvarez, and C. Troupin, 2013. Low contribution of N₂ fixation to new production and excess nitrogen in the subtropical northeast Atlantic margin. *Deep-Sea Research I*, 81(0):36–48. ISSN 0967-0637. doi:[10.1016/j.dsr.2013.07.004](https://doi.org/10.1016/j.dsr.2013.07.004). URL <http://www.sciencedirect.com/science/article/pii/S0967063713001386>.
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