

List of peer-reviewed publications (in reverse chronological order)

- [1] A. Barth, A. Alvera-Azcárate, C. Troupin, and J.-M. Beckers, 2022. DINCAE 2: multivariate convolutional neural network with error estimates to reconstruct sea surface temperature satellite and altimetry observations. *Geoscientific Model Development Discussions*, 2021:1–26. doi:[10.5194/gmd-2021-353](https://doi.org/10.5194/gmd-2021-353). URL <https://gmd.copernicus.org/preprints/gmd-2021-353/>.
- [2] A. Alvera-Azcárate, D. Van der Zande, A. Barth, C. Troupin, S. Martin, and J.-M. Beckers, Sep 2021. Analysis of 23 Years of Daily Cloud-Free Chlorophyll and Suspended Particulate Matter in the Greater North Sea. *Frontiers in Marine Science*, 8. ISSN 2296-7745. doi:[10.3389/fmars.2021.707632](https://doi.org/10.3389/fmars.2021.707632). URL <http://dx.doi.org/10.3389/fmars.2021.707632>.
- [3] A. Alvera-Azcárate, D. Van der Zande, A. Barth, J. F. Cardoso dos Santos, C. Troupin, and J.-M. Beckers, Feb 2021. Detection of shadows in high spatial resolution ocean satellite data using DINEOF. *Remote Sensing of Environment*, 253:112229. ISSN 0034-4257. doi:[10.1016/j.rse.2020.112229](https://doi.org/10.1016/j.rse.2020.112229). URL <http://dx.doi.org/10.1016/j.rse.2020.112229>.
- [4] A. Barth, C. Troupin, E. Reyes, A. Alvera-Azcárate, J.-M. Beckers, and J. Tintoré, 2021. Variational interpolation of high-frequency radar surface currents using DIVAnd. *Ocean Dynamics*. doi:[10.1007/s10236-020-01432-x](https://doi.org/10.1007/s10236-020-01432-x). URL <http://hdl.handle.net/2268/253954>. In press.
- [5] M. Belgacem, K. Schroeder, A. Barth, C. Troupin, B. Pavoni, P. Raimbault, N. Garcia, M. Borghini, and J. Chiggiato, Dec 2021. Climatological distribution of dissolved inorganic nutrients in the western Mediterranean Sea (1981–2017). *Earth System Science Data*, 13(12):5915–5949. ISSN 1866-3516. doi:[10.5194/essd-13-5915-2021](https://doi.org/10.5194/essd-13-5915-2021). URL <http://dx.doi.org/10.5194/essd-13-5915-2021>.
- [6] K. Shahzadi, N. Pinardi, A. Barth, C. Troupin, V. Lyubartsev, and S. Simoncelli, Aug 2021. A new global ocean climatology. *Frontiers in Environmental Science*, 9. ISSN 2296-665X. doi:[10.3389/fenvs.2021.711363](https://doi.org/10.3389/fenvs.2021.711363). URL <http://dx.doi.org/10.3389/fenvs.2021.711363>.
- [7] A. Alvera-Azcárate, C. Troupin, H. Goosse, M. J. McPhaden, and J.-M. Beckers, Dec 2020. Editorial to the Liège Colloquium Special Issue: Long-term studies in oceanography – a celebration of 50 years of science at the Liège Colloquium (1969 – 2018). *Ocean Dynamics*, 71(1):119–123. ISSN 1616-7228. doi:[10.1007/s10236-020-01421-0](https://doi.org/10.1007/s10236-020-01421-0). URL <https://link.springer.com/article/10.1007/s10236-020-01421-0>.
- [8] A. Barth, A. Alvera-Azcárate, M. Licer, and J.-M. Beckers, Mar 2020. DINCAE 1.0: a convolutional neural network with error estimates to reconstruct sea surface temperature satellite observations. *Geoscientific Model Development*, 13(3):1609–1622. ISSN 1991-9603. doi:[10.5194/gmd-13-1609-2020](https://doi.org/10.5194/gmd-13-1609-2020). URL <https://gmd.copernicus.org/articles/13/1609/2020/>.
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- [10] C. Troupin, A. Pascual, S. Ruiz, A. Olita, B. Casas, F. Margirier, P.-M. Poulain, G. Notarstefano, M. Torner, J. G. Fernández, M. A. 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](https://doi.org/10.5194/essd-11-129-2019). URL <https://www.earth-syst-sci-data.net/11/129/2019/>.
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