

Recent bibliography on oceanographic HF radars at MIO

2019

[Synergy between in situ and altimetry data to observe and study Northern Current variations \(NW Mediterranean Sea\)](#) (A. Carret, F. Birol, C. Estournel, **B. Zakardjian** and P. Testor) *Ocean Sci.*, 15, 269-290, 2019

2018

[A probabilistic method for the estimation of ocean surface current from HF radar short time series](#) (**C-A. Guérin**, S. Grilli), *Ocean Modelling*, 2018, 121, p 105-116

[Tsunami detection by High Frequency Radar in British Columbia: performance assessment of the Time-Correlation Algorithm for synthetic and real events](#) (**C-A. Guérin**, S. Grilli, P. Moran, A. Grilli and T. Insua), *Ocean Dynamics*, 2018, 68(4-5), pp. 423-438

[Wind-induced variability in the Northern Current \(Northwestern Mediterranean Sea\) as depicted by a multi-platform observing system](#) (M. Berta, **L. Bellomo**, A. Griffa, M. G. Magaldi, **A. Molcard**, C. Mantovani, G. P. Gasparini, J. **Marmain**, A. Vetrano, L. Béguery, M. Borghini, **Y. Barbin**, **J. Gaggelli**, **C. Quentin**) *Ocean Sciences* 14(4) pp 689-710, 2018

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[Observability of fine-scale Ocean Dynamics in the northwestern Mediterranean Sea](#) (R. Morrow, A. Carret F. Birol, F. Nino, G. Valladeau, F. Boy, C. Bachelier and **B. Zakardjian**) *Ocean Sciences*, 13:13-29, 2017

[Tsunami detection by High Frequency Radar beyond the continental shelf. II. Extension of algorithms and validation on realistic case studies](#) (S. Grilli, **C.-A. Guérin**, M. Shelby, A. Grilli, S. Grosdidier, T. Insua), *Pure and Applied Geophysics*, 2017 174(8), 3003-3028

[Surface current dynamics under sea breeze conditions observed by simultaneous HF radar, ADCP and drifter measurements](#) (A. Sentchev, **P. Forget** and **P. Fraunié**), *Ocean Dynamics* 67:499–512

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[Exploiting coastal altimetry to improve the surface circulation scheme over the central Mediterranean Sea](#) (**F Jebri**, F Birol, **B Zakardjian**, **J Bouffard** and C. Sammari) *J. Geophys. Res. Oceans*, 121, 4888–4909, 2016

[Tsunami detection by High Frequency Radar beyond the continental shelf I. Algorithms and validation on idealized case studies](#) (S. Grilli, S. Grosdidier and **C.-A. Guérin**) *Pure and Applied Geophysics*, 2016, 173(12), p 3895-3934

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[Noise properties of HF radar measurement of ocean surface currents](#)

P Forget - *Radio Science*, 50(8), pp 764-777

[On the Nature of Near-Inertial Oscillations in the Uppermost Part of the Ocean and a Possible Route toward HF Radar Probing of Stratification](#) (VI Shrira, P **Forget**), Journ. Phys. Ocean. 45, pp 2660

[Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience](#) (L. **Bellomo**, ..., J. **Marmain**, ..., Y. **Barbin**, ... A. **Molcard**, ..., C. **Quentin**, ...) Journal of Operational Oceanography, 8(2) 95-107, 2015

[Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithm](#) (A. Orfila, A. **Molcard**, J. M. Sayol, J. **Marmain**, L. **Bellomo**, C. **Quentin**, and Y. **Barbin**) IEEE Trans. Geos. Rem. Sens. , 53(5):2875-2886, 2015.

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[Inversion of swell frequency from a 1-year HF radar dataset collected in Brittany](#) (France) (W. Wang, P. **Forget**, and C. Guan) . Ocean Dynamics , 64(10):1447-1456, OCT 2014.

[Simulation of HF bistatic ocean radar system in experimental conditions](#) (S. **Grosdidier**, P. **Forget**, Y. **Barbin** and C-A. **Guérin**), IEEE Trans. Geosci. Rem. Sens., 2014, 52(4), p 2138-2148

[Assimilation of HF radar surface currents to optimize forcing in the northwestern Mediterranean Sea.](#) (J. **Marmain**, A. **Molcard**, P. **Forget**, A. Barth, and Y. **Ourmières**). Nonlinear Processes in Geophysics , 21(3):659-675, 2014.

[Estimating Lagrangian transport blending drifters with HF radar data and models: results from the TOSCA experiment in the Ligurian Current \(North Western Mediterranean Sea\)](#) (M. Berta, L. **Bellomo**, MG. Magaldi, A. Griffa, A. **Molcard**, J. **Marmain**, M. Borghini, V. Taillandier) Progress in Oceanography, 128, p 15-29, 2014

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[A case study of the mesoscale dynamics in the North-Western Mediterranean Sea: a combined data-model approach.](#) (K. **Guihou**, J. **Marmain**, Y. **Ourmieres**, A. **Molcard**, B. **Zakardjian** and P. **Forget**.) Ocean Dynamics , 63(7):793-808, JUL 2013.

[HF radar in French Mediterranean Sea: an element of MOOSE Mediterranean Ocean Observing System on Environment](#) (C. **Quentin**, Y. **Barbin**, L. **Bellomo**, P. **Forget**, J. **Gagelli**, S. **Grosdidier**, C-A. **Guérin**, K. **Guihou**, J. **Marmain**, A. **Molcard**, B. **Zakardjian**, P. **Guterman**, K. Bernardet)- Ocean & Coastal Observation : sensors and observing systems, numerical models, Oct. 2013, Nice, France

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[Characterization of ocean surface current properties from single site HF/VHF radar.](#) (J. **Marmain**, P. **Forget** and A. **Molcard**) Ocean Dynamics , 1(11):1967-1979, NOV 2011.

[Generation mechanisms for mesoscale eddies in the Gulf of Lions: radar observation and modeling](#) (A. **Schaeffer**, A. **Molcard**, P. **Forget**, P. **Fraunié** and Pierre Garreau). Ocean Dynamics , 61(10):1587-1609, OCT 2011.

