

Abrégé	Auteurs	Titre	Nom du journal	Références (volume, pages)	Année	Hyperlien
Civier et al., 2024	Civier L., Chevillotte Y., Bain C., Bles G., Damblans G., Davies P. & Marco Y.	Fatigue study of twisted polyamide sub-ropes for floating wind turbines: Fast evaluation with heat build-up protocol and tomography study of mechanisms	International Journal of Fatigue	Vol. 188, 108532	2024	https://doi.org/10.1016/j.ijfatigue.2024.108532
Lehmann et al., 2024	Lehmann J., Fofack-Garcia R., Ranchin T. & Pérez-López P.	Hierarchization of social impact subcategories: towards a systematic approach for enhanced stakeholders' representativeness	The International Journal of Life Cycle Assessment		2024	https://doi.org/10.1007/s11367-023-02275-6
Marclille et al., 2024	Marclille R., Tandeo P., Thiébaud M., Pinson P. & Fablet R.	Convolutional Encoding and Normalizing Flows: A Deep Learning Approach for Offshore Wind Speed Probabilistic Forecasting in the Mediterranean Sea	Artificial Intelligence for the Earth Systems	e230112	2024	https://doi.org/10.1175/AIES-D-23-0112.1
Quéroué et al., 2024	Quéroué M., Authier M., Besnard A. & Heerah K.	Going digital: challenges in monitoring marine megafauna when comparing results from visual and digital aerial surveys	Frontiers in Marine Science	Vol.11, 1432798	2024	https://doi.org/10.3389/fmars.2024.1432798
Thiébaud et al. 2024	Thiébaud M., Thebault N., Le Boulluec M., Damblans G., Maisondieu C., Benzo C. & Guinot F.	Experimental Evaluation of the Motion-Induced Effects for Turbulent Fluctuations Measurement on Floating Lidar Systems	Remote Sensing	Vol. 16, 1337	2024	https://doi.org/10.3390/rs16081337
Thiébaud et al. 2024	Thiébaud M., Vonta L., Benzo C. & Guinot F.	Characterization of the offshore wind dynamics for wind energy production in the Gulf of Lion, Western Mediterranean Sea	Wind Energy and Engineering Research	Vol. 1, 100002	2024	https://doi.org/10.1016/j.weer.2024.100002
Battle Martin et al., 2023	Battle Martin M., Harris J.C., Fillpot J.F., Hulín F., Tassin A. & Renaud P.	Deep water focused breaking wave loads on a fixed cylinder	Coastal Engineering	Vol. 186, 104397	2023	https://doi.org/10.1016/j.coastaleng.2023.104397
Baulaz et al., 2023	Baulaz Y., Mouchet M., Niquil N. & Ben Rais Lasram F.	An integrated conceptual model to characterize the effects of offshore wind farms on ecosystem services	Ecosystem Services	Vol. 60, 101513	2023	https://doi.org/10.1016/j.ecoser.2023.101513
Dridi et al., 2023	Dridi N., Drumet L., Hirvoas A. & Ribault R.	Estimation de l'incertitude pour les réseaux de neurones : application pour la prédiction de mouvement d'éolienne en mer	Actes du colloque GRETSI 2023	ID1278, 4 p.	2023	https://grets.fr/data/colloque/pdf/2023_dridi1278.pdf
Fofack-Garcia et al., 2023	Fofack-Garcia R., Mazé C., Safi G., Lejart M., Chauvac N., Thermes M., Ragueneau O., Le Loc'h F. & Niquil N.	Socio-political acceptability of floating offshore wind farms in France: challenges and perspectives for marine governance towards sustainability	Ocean & Coastal Management	Vol. 236, 106513	2023	https://doi.org/10.1016/j.ocecoaman.2023.106513
Lucero et al., 2023	Lucero F., Stringari C.E. & Fillpot J.F.	Improving WAVEWATCH III hindcasts with machine learning	Coastal Engineering	Vol. 185, 104381	2023	https://doi.org/10.1016/j.coastaleng.2023.104381
Marclille et al., 2023	Marclille M., Thiébaud M., Tandeo P., & Fillpot J.F.	Gaussian mixture models for the optimal sparse sampling of offshore wind resource	Wind Energy Science	Vol. 8, pp.771-786	2023	https://doi.org/10.5194/wes-8-771-2023
Portas et al., 2023	Portas A., Carriot N., Ortalo-Magné A., Damblans G., Thiébaud M., Culloli G., Quillen N. & Briand J.F.	Impact of hydrodynamics on community structure and metabolic production of marine biofouling formed in a highly energetic estuary	Marine Environmental Research	Vol. 192, 106241	2023	https://doi.org/10.1016/j.marenvres.2023.106241
Renaud et al., 2023	Renaud P., Battle Martin M., Hulín F., Harris J. C., Fillpot J. F. & Scolan Y. M.	Semi-analytical load models describing the progressive immersion of a fixed vertical cylinder in a breaking wave	Ocean Engineering	Vol. 276, 114116	2023	https://doi.org/10.1016/j.oceaneng.2023.115928
Renaud et al., 2023	Renaud P., Hulín F., Battle Martin M., Scolan Y.M., Tassin A., Jacques N., Harris J.C. & Fillpot J.F.	Semi-analytical load models accounting for the tilt and motion of a cylinder impacted by a plunging breaking wave	Proceedings of the ASME 42nd International Conference on Ocean, Offshore and Arctic Engineering	Vol. 2, V002T02A021	2023	https://doi.org/10.1115/OMAEE2023-FM2
Schoefs et al., 2023	Schoefs F., Oumouni M., Ahmadiwala M., Luxcey N., Dupriez-Robin F. & Guerin P.	Unified System Analysis for Time-Variant Reliability of a Floating Offshore Substation	Marine Science and Engineering	Vol. 11, 1924	2023	https://doi.org/10.3390/mse11101924
Signor et al., 2023	Signor J., Damblans G., Schoefs F. & Quillien N.	Automatic Classification of Biofouling Images from Offshore Renewable Energy Structures Using Deep Learning	Ocean Engineering	Vol. 288, 115928	2023	https://doi.org/10.1016/j.oceaneng.2023.115928
Andrzeczek et al., 2022	Andrzeczek S., Lucas T.C.D., Goodman M.C., Hussey N.E., Armstrong A.J., Carlisle A., Coffey D.M., Gleiss A.C., Menni C., Smith P.M., Martin M.G., Menni B.	Diving into the vertical dimension of elasmobranch movement ecology	Sciences advances	Vol. 8, ea01754	2022	https://doi.org/10.1126/sciadv.a01754
Bain et al., 2022	Bain C., Davies P., Riou L., Marco Y., Bles G. & Damblans G.	Experimental evaluation of the main parameters influencing friction between polyamide fibers and influence of friction on the abrasion resistance	The Journal of The Textile Institute		2022	https://doi.org/10.1080/00405000.2022.2105075
Battle Martin et al., 2022	Battle Martin M., Harris J. C., Renaud P., Hulín F. & Fillpot J. F.	Numerical investigation of slamming loads on floating offshore wind turbines	Proceedings of the 32nd International Ocean and Polar Engineering Conference	Vol. 1, pp. 212-217	2022	https://hal.science/hal-03721266/document
Civier et al., 2022	Civier L., Chevillotte Y., Bles G., Montel F., Davies P. & Marco Y.	Short and long term creep behaviour of polyamide ropes for mooring applications	Ocean Engineering	Vol. 259, 111800	2022	https://doi.org/10.1016/j.oceaneng.2022.111800
Green et al., 2022	Green R., Gill E., Hein C., Couturier L., Mascarenhas M., May R., Newell D. & Rumes B.	International assessment of priority environmental issues for land-based and offshore wind energy development	Global Sustainability	Vol. 15, pp. 1-12	2022	https://doi.org/10.1017/sus.2022.14
Le Marchand et al., 2022	Le Marchand M., Ben Rais Lasram F., Araignou E., Saint-Jean B., Lassalle G., Michelet N., Serre S., Safi G., Lejart M., Niquil N. & Le Loc'h F.	Potential combined impacts of climate change and non-indigenous species arrivals on Bay of Biscay trophic network structure and functioning	Journal of Marine Systems	Vol. 228, 103704	2022	https://doi.org/10.1016/j.jmarsys.2022.103704
Portas et al., 2022	Portas A., Quillien N., Culloli G. & Briand J.F.	Eukaryotic diversity of marine biofouling from coastal to offshore areas	Frontiers in Marine Science	Vol. 9, 971939	2022	https://doi.org/10.3389/fmars.2022.971939
Makassi et al., 2021	Makassi Z., Garnier B., El Moctar A.O. & Schoefs F.	Caractérisation thermique du biofouling autour d'un câble électrique dynamique sous-marin	Actes du Congrès Français de Thermique 2021	8 p.	2021	https://doi.org/10.25855/SFT2021-038
Marty et al., 2021 (a)	Marty A., Berhaut C., Damblans G., Facq J.V., Gaurier B., Germain G., Soulard T. & Schoefs F.	Experimental study of hard marine growth effect on the hydrodynamical behaviour of a submarine cable	Applied Ocean Research	Vol. 114, 102810	2021	https://doi.org/10.1016/j.apor.2021.102810
Marty et al., 2021 (b)	Marty A., Schoefs F., Soulard T., Berhaut C., Facq J.-V., Gaurier B. & Germain G.	Effect of roughness of mussels on cylinder forces from a realistic shape modelling	Journal of Marine Science and Engineering	Vol. 9, 598	2021	https://doi.org/10.3390/mse9060598
Niquil et al., 2021	Niquil N., Scotti M., Fofack-Garcia R., Haraldsson M., Thermes M., Raoux A., Le Loc'h F. & Mazé C.	The Merits of Loop Analysis for the Qualitative Modeling of Social-Ecological Systems in Presence of Offshore Wind Farms	Frontiers in Ecology and Evolution	Vol. 9, 635798	2021	https://doi.org/10.3389/fevo.2021.635798
Platzer et al., 2021	Platzer P., Yiou P., Naveau P., Fillpot J.F., Thiébaud M. & Tandeo P.	Probability Distributions for Analog-To-Target Distances	Journal of the Atmospheric Sciences	Vol. 78, pp. 3317–3335	2021	https://doi.org/10.1175/JAS-D-20-0382.1
Stringari et al., 2021	Stringari C.E., Guimarães P.V., Fillpot J.F., Leckler F. & Duarte R.	Deep neural networks for active wave breaking classification	Nature Scientific Reports	Vol. 11, 3604	2021	https://www.nature.com/articles/s41598-021-83188-v
Stringari et al., 2021	Stringari C.E., Prevosto M., Fillpot J.F., Leckler F. & Guimarães P.V.	A New Probabilistic Wave Breaking Model for Dominant Wind-Sea Waves Based on the Gaussian Field Theory	JGR Oceans	Vol. 126, e2020C016943	2021	https://doi.org/10.1029/2020C016943
Varing et al., 2021	Varing A., Fillpot J.F., Delpey M., Guitton G., Collard F., Platzer P., Roeber V. & Morichon D.	Spatial distribution of wave energy over complex coastal bathymetries: Development of methodologies for comparing modeled wave fields with satellite observations	Coastal Engineering	Vol. 169, 103793	2021	https://doi.org/10.1016/j.coastaleng.2020.103793
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Varing et al., 2021	Varing A., Fillpot J.F., Grilli S., Duarte R., Roeber V. & Yates M.	A new definition of the kinematic breaking onset criterion validated with solitary and quasi-regular waves in shallow water	Coastal Engineering	Vol. 164, 103755	2021	https://doi.org/10.1016/j.coastaleng.2020.103755
Ayet et al., 2020	Ayet A., Chapron B., Redelsperger J. L., Lapeyre G. & Marié L.	On the Impact of Long Wind-Waves on Near-Surface Turbulence and Momentum Fluxes	Boundary-Layer Meteorology	Vol. 174, pp.465-491	2020	https://archimer.ifremer.fr/doc/00601/71285/

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Decurey et al., 2020	Decurey B., Schoefs F., Barillé A.L. & Soulard T.	Model of Bio-Colonisation on Mooring Lines: Updating Strategy Based on a Static Qualifying Sea State for Floating Wind Turbines	Journal of Marine Science and Engineering	Vol. 8, 108	2020	https://doi.org/10.3390/jmse8020108
Guimarães et al., 2020	Guimarães P.V., Arduin F., Bergamasco F., Leckler F., Filipot J.F., Shim J.S., Dulov V. & Benetazzo A.	A data set of sea surface stereo images to resolve space-time wave fields	Scientific Data	Vol. 7, pp. 1-12	2020	https://doi.org/10.6084/m9.figshare.12181158
Le Marchand et al., 2020	Le Marchand M., Hattab T., Niquil N., Albouy C. & Lasram F.B.R.	Climate change in the Bay of Biscay: Changes in spatial biodiversity patterns could be driven by the arrivals of southern species	Marine Ecology Progress Series	Vol. 647, pp.17-31	2020	https://doi.org/10.3354/meps13401
Marty et al., 2020	Marty A., Berhaut C., Damblans G., Faqj J.V., Gaurier B., Germain G., Soulard T. & Schoefs F.	Marine growth effect on the hydrodynamical behavior of a submarine cable under current and wave conditions	Actes des 17èmes Journées de l'Hydrodynamique	12 p.	2020	https://archimer.ifremer.fr/doc/00660/77245/78697.pdf
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Taormina et al., 2020 (a)	Taormina B., Di Poi C., Agnalt A.L., Carlier A., Desroy N., Escobar-Lux R.H., D'eu J.F., Freytet F. & Duriff C.M.F.	Impact of magnetic fields generated by AC/DC submarine power cables on the behavior of juvenile European lobster (<i>Homarus gammarus</i>)	Aquatic Toxicology	Vol. 220, 105401	2020	https://doi.org/10.1016/j.aquatox.2019.105401
Taormina et al., 2020 (b)	Taormina B., Percheron A., Marzloff M.P., Caisey X., Quillien N., Lejart M., Desroy N., Dugornay O., Tancrey A. & Carlier A.	Succession in epibenthic communities on artificial reefs associated with marine renewable energy facilities within a tide-swept environment	ICES Journal of Marine Science	Vol. 77, pp. 2656-2668	2020	https://doi.org/10.1093/icesjms/fsaa129
Taormina et al., 2020 (c)	Taormina B., Laurans M., Marzloff M.P., Dufournaud N., Lejart M., Desroy N., Leroy D., Martin S. & Carlier A.	Renewable energy homes for marine life: Habitat potential of a tidal energy project for benthic megafauna	Marine Environmental Research	Vol. 161, 105131	2020	https://doi.org/10.1016/j.marenvres.2020.105131
Taormina et al., 2020 (d)	Taormina B., Marzloff M.P., Desroy N., Caisey X., Dugornay O., Metral Thiesse E., Tancrey A. & Carlier A.	Optimizing image-based protocol to monitor macroepibenthic communities colonizing artificial structures	ICES Journal of Marine Science	Vol. 77, pp.835-845	2020	https://doi.org/10.1093/icesjms/fsz249
Arroyo et al., 2019	Arroyo N.L., Safi G., Vouriot P., López-López L., Niquil N., Le Loc'h F., Hattab T. & Preciado I.	Towards coherent GES assessments at sub-regional level: signs of fisheries expansion processes in the Bay of Biscay using an OSPAR food web indicator, the mean trophic level.	ICES Journal of Marine Science	Vol. 76, pp. 1543-1553	2019	https://doi.org/10.1093/icesjms/fsz023
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Mouche et al., 2019	Mouche A., Chapron B., Knaff J., Zhao Y., Zhang B. & Combet C.	Copolarized and Cross-Polarized SAR Measurements for High-Resolution Description of Major Hurricane Wind Structures: Application to Irma Category 5 Hurricane	Journal of Geophysical Research: Oceans	Vol. 124, pp.3905-3922	2019	https://doi.org/10.1029/2019JC015056
Papoutsellis et al., 2019	Papoutsellis C.E., Yates M.L., Simon B. & Benoit M.	Modeling of depth-induced wave breaking in a fully nonlinear free-surface potential flow model	Coastal Engineering	Vol. 154, 103579	2019	https://doi.org/10.1016/j.coastaleng.2019.103579
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Pianezze et al., 2018	Pianezze J., Barthe C., Bielli S., Tulet P., Jullien S., Cambon G., Bousquet O., Claeys M. & Cordier E.	A New Coupled Ocean-Waves-Atmosphere Model Designed for Tropical Storm Studies: Example of Tropical Cyclone Bejsa (2013-2014) in the South-West Indian Ocean	Journal of Advances in Modeling Earth Systems	Vol. 10, pp.801-825	2018	https://doi.org/10.1002/2017MS001177
Taormina et al., 2018	Taormina B., Bald J., Want A., Thouzeau G., Lejart M., Desroy N. & Carlier A.	A review of potential impacts of submarine power cables on the marine environment: Knowledge gaps, recommendations and future directions	Renewable and Sustainable Energy Reviews	Vol. 96, pp.380-391	2018	https://doi.org/10.1016/j.rser.2018.07.026