

Publ.-Year	No.	Authors	Title	Source	Volume	Issue	Beginpage	Endpage	Participating Research Units	HGF Program PACES II: Topics
2017	1	Baschek, B.; Schroeder, F.; Brix, H.; Riethmüller, R.; Badewien, T.H.; Breitbart, G.; Brügge, B.; Colijn, F.; Doerffer, R.; Eschenbach, C.; Friedrich, J.; Fischer, P.; Garthe, S.; Horstmann, J.; Krasemann, H.; Metfies, K.; Merckelbach, L.; Ohle, N.; Petersen, W.; Pröfrock, D.; Röttgers, R.; Schlüter, M.; Schulz, J.; Schulz-Stellenfleth, J.; Stanev, E.; Staneva, J.; Winter, C.; Wirtz, K.; Wollschläger, J.; Zielinski, O.; Ziemer, F.	The Coastal Observing System for Northern and Arctic Seas (COSYNA)	Ocean Science	13	3	379	410	RU 1 - System Analysis and Modelling RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	2	Bracher A., Bouman H., Brewin R.J., Bricaud A., Brotas V., Ciotti A.M., Clementson L., Devred E., Di Cicco A., Dutkiewicz S., Hardman-Mountford N., Hickman A.E., Hieronymi M., Hirata T., Losa S.N., Mouw C., Organelli E., Raitos D.E., Uitz J., Vogt M., and Wolanin A.	Obtaining Phytoplankton Diversity from Ocean Color: A Scientific Roadmap for Future Development	Front. Mar. Sci.	4	55			RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	3	Buckley, Marc P.; Veron, Fabrice	Airflow measurements at a wavy air-water interface using PIV and LIF	EXPERIMENTS IN FLUIDS	58	11			RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	4	Callies, U., Groll, N., Horstmann, J., (...), Maßmann, S., Schwichtenberg, F.	Surface drifters in the German Bight: Model validation considering windage and Stokes drift	OCEAN SCIENCE	13	5	799	827	RU 1 - System Analysis and Modelling RU 2 - Biogeochemistry in Coastal Seas RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	5	Carpenter, J.R.; Guha, A.; Heifetz, E.	A physical interpretation of the wind-wave instability as interacting waves	Journal of Physical Oceanography	47	6	1441	1455	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	6	Carrasco, R.; Horstmann, J.; Seemann, J.	Significant Wave Height Measured by Coherent X-Band Radar	IEEE Transactions on Geoscience and Remote Sensing					RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	7	Carrasco, R.; Streßer, M.; Horstmann, J.	A simple method for retrieving significant wave height from Dopplerized X-band radar	Ocean Science	13	1	95	103	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	8	Dall'Olmo, Giorgio; Brewin, Robert J. W.; Nencioli, Francesco; et al.	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry	Optics Express	25	24	A1079	A1095	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	9	Eschenbach, C.A.	Bridging the gap between observational oceanography and users	Ocean Science	13	1	161	173	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	10	Evers-King, H.; Martinez-Vicente, V.; Brewin, R.J.W.; Dall'Olmo, G.; Hickman, A.E.; Jackson, T.; Kostadinov, T.S.; Krasemann, H.; Loisel, H.; Röttgers, R.; Roy, S.; Stramski, D.; Thomalla, S.; Platt, T.; Sathyendranath, S.	Validation and intercomparison of ocean color algorithms for estimating particulate organic carbon in the oceans	Frontiers in Marine Science	4	AUG	251		RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	11	Fischer, P.; Schwanitz, M.; Loth, R.; Posner, U.; Brand, M.; Schröder, F.	First year of practical experiences of the new Arctic AWIPEV-COSYNA cabled Underwater Observatory in Kongsfjorden, Spitsbergen	Ocean Science	13	2	259	272	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	12	Fischer, S.J.; York, J.K.; Voynova, Y.G.; Ullman, W.J.	Distance-based mixing models of $\delta^{18}\text{NNO}_3$ - and $\delta^{18}\text{ONO}_3$ - in a marsh-lined estuary with multiple, distinct NO_3 - sources (Murderkill Estuary, Delaware, USA)	Limnology and Oceanography	62	2	408	420	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	13	Floeter, J.; van Beusekom, J.E.E.; Auch, D.; Callies, U.; Carpenter, J.; Dudeck, T.; Eberle, S.; Eckhardt, A.; Gloe, D.; Hänselmann, K.; Hufnagel, M.; Janßen, S.; Lenhart, H.; Möller, K.O.; North, R.P.; Pohlmann, T.; Riethmüller, R.; Schulz, S.; Spreizenbarth, S.; Temming, A.; Walter, B.; Zielinski, O.; Möllmann, C.	Pelagic effects of offshore wind farm foundations in the stratified North Sea	Progress in Oceanography	156		154	173	RU 3 - Operational Systems RU 2 - Biogeochemistry in Coastal Seas	Topic 2 - Fragile Coasts and Shelf Seas

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2017	14	Hemming, M.P.; Kaiser, J.; Heywood, K.J.; Bakker, D.C.E.; Boutin, J.; Shitashima, K.; Lee, G.; Legge, O.; Onken, R.	Measuring pH variability using an experimental sensor on an underwater glider	Ocean Science	13	3	427	442	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	15	Hieronimi, M.; Müller, D.; Doerffer, R.	The OLCI neural network swarm (ONNS): A bio-geo-optical algorithm for open ocean and coastal waters	Frontiers in Marine Science	4	MAY	140		RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	16	Hofmeister, R.; Flöser, G.; Schartau, M.	Estuary-type circulation as a factor sustaining horizontal nutrient gradients in freshwater-influenced coastal systems	Geo-Marine Letters	37	2	179	192	RU 1 - System Analysis and Modelling RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	17	Karimova, S.	Observations of asymmetric turbulent stirring in inner and marginal seas using satellite imagery	International Journal of Remote Sensing	38	6	1642	1664	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	18	Kerimoglu, Onur; Hofmeister, Richard; Maerz, Joeran; et al.	The acclimative biogeochemical model of the southern North Sea	Biogeosciences	14	19	4499	4531	RU 1 - System Analysis and Modelling RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	19	Knoll, Michaela; Borrione, Ines; Fiekas, Heinz-Volker; et al.	Hydrography and circulation west of Sardinia in June 2014	Ocean Science	13	6	889	904	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	20	Lefering, I.; Röttgers, R.; Utschig, C.; McKee, D.	Uncertainty budgets for liquid waveguide CDOM absorption measurements	Applied Optics	56	22	6357	6366	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	21	Martínez-Vicente, V.; Evers-King, H.; Roy, S.; (...), Platt, T., Sathyendranath, S.	Intercomparison of Ocean Color Algorithms for Picophytoplankton Carbon in the Ocean	Frontiers in Marine Science	4				RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	22	Mascarenhas, V.J.; Voß, D.; Wollschlaeger, J.; Zielinski, O.	Fjord light regime: Bio-optical variability, absorption budget, and hyperspectral light availability in Sognefjord and Trondheimsfjord, Norway	Journal of Geophysical Research: Oceans	122	5	3828	3847	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	23	Ohlmann, J.C.; Molemaker, M.J.; Baschek, B.; Holt, B.; Marmorino, G.; Smith, G.	Drifter observations of submesoscale flow kinematics in the coastal ocean	Geophysical Research Letters	44	1	330	337	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	24	Onken, R.	Validation of an ocean shelf model for the prediction of mixed-layer properties in the Mediterranean Sea west of Sardinia	Ocean Science	13	2	235	257	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	25	Ramírez-Pérez, M.; Gonçalves-Araujo, R.; Wiegmann, S.; Torrecilla, E.; Bardaji, R.; Röttgers, R.; Bracher, A.; Piera, J.	Towards cost-effective operational monitoring systems for complex waters: Analyzing small-scale coastal processes with optical transmissometry	PLoS ONE	12	1	e0170706		RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	26	Reiner Onken	Forecast skill score assessment of a relocatable ocean prediction system, using a simplified objective analysis method	Ocean Science	13	6	925	945	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	27	Rubio A, Mader J, Corgnati L, Mantovani C, Griffa A, Novellino A, Quentin C, Wyatt L, Schulz-Stellenfleth J, Horstmann J, Lorente P, Zambianchi E, Hartnett M, Fernandes C, Zervakis V, Gorringer P, Melet A and Puillat I	HF Radar Activity in European Coastal Seas: Next Steps toward a Pan-European HF Radar Network	Front. Mar. Sci.	4	8			RU 1 - System Analysis and Modelling RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	28	Schultze, Larissa K. P.; Merkelbach, Lucas M.; Carpenter, Jeffrey R.	Turbulence and Mixing in a Shallow Shelf Sea From Underwater Gliders	Journal of Geophysical Research-Oceans	122	11	9092	9109	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	29	Shibley, N.C.; Timmermans, M.-L.; Carpenter, J.R.; Toole, J.M.	Spatial variability of the Arctic Ocean's double-diffusive staircase	Journal of Geophysical Research: Oceans	122	2	980	994	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	30	Sinikka T. Lennartz, Christa A. Marandino, Marc von Hobe, Pau Cortes, Birgit Quack, Rafael Simo, Dennis Booge, Andrea Pozzer, Tobias Steinhoff, Damian L. Arevalo-Martinez, Corinna Kloss, Astrid Bracher, Rüdiger Röttgers, Elliot Atlas and Kirstin Krüger	Direct oceanic emissions unlikely to account for the missing source of atmospheric carbonyl sulfide	Atmos. Chem. Phys.	17		385	402	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services

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2017	31	Stockley, Nicole D.; Roettgers, Ruediger; McKee, David; et al.	Assessing uncertainties in scattering correction algorithms for reflective tube absorption measurements made with a WET Labs ac-9	Optics Express	25	24	A1139	A1153	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	32	Stresser, Michael; Carrasco, Ruben; Horstmann, Jochen	Video-Based Estimation of Surface Currents Using a Low-Cost Quadcopter	IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	14	11	2027	2031	RU 3 - Operational Systems	Topic 2 - Fragile Coasts and Shelf Seas
2017	33	Tan, H.; Oishi, T.; Tanaka, A.; Doerffer, R.; Tan, Y.	Chlorophyll-A specific volume scattering function of phytoplankton	Optics Express	25	12	A564	A573	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	34	Voynova, Y.G.; Brix, H.; Petersen, W.; Weigelt-Krenz, S.; Scharfe, M.	Extreme flood impact on estuarine and coastal biogeochemistry: The 2013 Elbe flood	Biogeosciences	14	3	541	557	RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	35	Xi, H.; Hieronymi, M.; Krasemann, H.; Röttgers, R.	Phytoplankton group identification using simulated and in situ hyperspectral remote sensing reflectance	Frontiers in Marine Science	4	AUG	272		RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services
2017	36	Zaencker, Birthe; Bracher, Astrid; Roettgers, Ruediger; et al.	Variations of the Organic Matter Composition in the Sea Surface Microlayer: A Comparison between Open Ocean, Coastal, and Upwelling Sites Off the Peruvian Coast	Frontiers in Microbiology	8				RU 3 - Operational Systems	Topic 4 - Bridging Research and Society - Products, Tools and Climate Services