

| Publ.-Year | No. | Authors | Title | Source | Volume | Issue | Beginpage | Endpage | Participating Research Units | HGF Program PACES II: Topic |
|------------|-----|---|---|---|--------|-------|-----------|---------|------------------------------|--|
| 2013 | 1 | Assmy | Thick-selled, grazer-protected diatoms decouple ocean carbon an silicon cycles in teh iron-limited Antarctic Circumpolar Current | Proceedings of the National Academy of Sciences of the United States of America | 110 | 51 | 20633 | 20638 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 2 | Floeser, G., Riethmüller, R., et al. | Observational evidence for the general presence of estuarine circulation in the waden sea | Journal of Coastal Research | 65 | | 1527 | 1532 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 3 | Hieronymi M., Macke A. | Wave-induced irradiance variability in the upper ocean from modeling and observations | AIP Conference Proceedings | 1531 | | 915 | 918 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 4 | Hieronymi, M. | Monte Carlo code for the study of the dynamic light field at the wavy atmosphere-ocean interface | JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS | 8 | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 5 | Horstmann J., Wackermann C. et al. | Tropical Cyclone Winds Retrieved from Synthetic Aperture Radar | Oceanography | 26 | 2 | 46 | 57 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 6 | Kowalcuk P., Tilsone, G.H., Roettgers R. et al. | Composition of dissolved organic matter along an Atlantic Meridional Transect from fluorescence spectroscopy and Parallel Factor Analyses | Marine Chemistry | 157 | | 170 | 184 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 7 | Liang J.-H., Deutsch C., Mcwilliams J.C., Baschek B., Sullivan P.P., Chiba D. | Parameterizing bubble-mediated air-sea gas exchange and its effect on ocean ventilation | Global Biogeochemical Cycles | 27 | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 8 | McKee, David; Piskozub, Jacek; Roettgers, Ruediger; Reynolds, Rick A. | Evaluation and Improvement of an Iterative Scattering Correction Scheme for in situ Absorption and Attenuation Measurements | JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY | 30 | 7 | 1527 | 1541 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 9 | Merckelbach L. | On the probability of underwater glider loss due to collision with a ship | Journal of Marine Science and Technology | 18 | 1 | 75 | 86 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 10 | Newton A., Icely J., Cristina S., Brito A., Cardoso A.C., Colijn F., Riva S.D., Gertz F., Hansen J.W., Holmer M., Ivanova K., Leppakoski E., Canu D.M., Mocenni C., Mudge S., Murray N., Pejrup M., Razinkovas A., Reizopoulou S., Perez-Ruzafa A., Schernewski G., Schubert H., Carr L., Solidoro C., PierluigiViaroli, Zaldivar J.-M. | An overview of ecological status, vulnerability and future perspectives of European large shallow, semi-enclosed coastal systems, lagoons and transitional waters | Estuarine, Coastal and Shelf Science | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 11 | North, R.P., Livingstone, D.M., et al. | The physical impact of the late 1980s climate regime shift on Swiss rivers and lakes | Journal Inland Waters | 3 | 3 | 341 | 350 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |

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| 2013 | 12 | Nugrahadi M.S., Duwe K., Schroeder F., Goldmann D. | Seasonal variability of the water residence time in the madura Strait, East Java, Indonesia | Asian Journal of Water, Environment and Pollution | 10 | 1 | 117 | 128 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 13 | Orek, H., Doerffer, R., Roettgers, R., et al. | Contribution to a biooptical model for remote sensing of Lena River water | Biogeosciences | 10 | 11 | 7081 | 7094 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 14 | Röttgers, r., McKee, D., Wozniak, S. | Evaluation of scatter corrections for ac-9 absorption measurements in coastal waters | Methods in Oceanography | 7 | | 21 | 39 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 15 | Schroeder F., Boer M., Wijanarko D.A. | Development and application of the MERMAID water quality monitoring station in the brantas River, Java, Indonesia | Asian Journal of Water, Environment and Pollution | 10 | 1 | 25 | 39 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 16 | Schroeder F., Knauth H.-D. | Water quality time-series data of the lower brantas River, East Java, Indonesia: Results from an automated water quality monitoring station | Asian Journal of Water, Environment and Pollution | 10 | 1 | 55 | 72 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2013 | 17 | Tan, Hiroyuki; Doerffer, Roland; Oishi, Tomohiko; Tanaka, Akihiko | A new approach to measure the volume scattering function | OPTICS EXPRESS | 21 | 16 | 18697 | 18711 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 18 | Vicen-Bueno, Raul; Horstmann, Jochen; Terril, Eric; de Paolo, Tony; Dannenberg, Jens | Real-Time Ocean Wind Vector Retrieval from Marine Radar Image Sequences Acquired at Grazing Angle | JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY | 30 | 1 | 127 | 139 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2013 | 19 | Wollschlaeger, Jochen; Grunwald, Maik; Roettgers, Ruediger; Petersen, Wilhelm | Flow-through PSICAM: a new approach for determining water constituents absorption continuously | OCEAN DYNAMICS | 63 | 7 | 761 | 775 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 20 | Borges L. M., Merckelbach, L.M., Cragg, S.M. | Biography of Wood-Boring Crustaceans (Isopoda: Limnoriidae) Established in European Costal Waters | PLOS ONE | 9 | 10 | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 21 | Borges, L.M.S. | Biodegradation of wood exposed in the marine environment: Evaluation of the hazard posed by marine wood-borers in fifteen European sites | International Biodeterioration and Biodegradation | 96 | | 97 | 104 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 22 | Borges, L.M.S., Merckelbach, L.M., Sampaio, T., Cragg, S.M. | Diversity, environmental requirements, and biogeography of bivalve wood-borers (Teredinidae) in European coastal waters | Frontiers in Zoology | 11 | 1 | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 23 | Carpenter, J. R.; Timmermans, M. -L. | Does Rotation Influence Double-Diffusive Fluxes in Polar Oceans? | JOURNAL OF PHYSICAL OCEANOGRAPHY | 44 | 1 | 289 | 296 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2014 | 24 | Frank, C., Meier, D., Voß, D., Zielinski, O. | Computation of nitrate concentrations in costal water using an in situ ultraviolet spectrophotometer: Behavior of different computation methods in a case study and atep salinity gradient in the southern north sea | Methods in Oceanography | 9 | | 34 | 43 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 25 | Friedrich, J., Janssen, F., Aleynik, D., Bange, H.W., Boltacheva, N., Çagatay, M.N., Dale, A.W., Etiope, G., Erdem, Z., Geraga, M., Gilli, A., Gomoiu, M.T., Hall, P.O.J., Hansson, D., He, Y., Holtappels, M., Kirf, M.K., Kononets, M., Konovalov, S., Lichtschlag, A., Livingstone, D.M., Marinaro, G., Mazlumyan, S., Naehler, S., North, R.P., Papatheodorou, G., Pfannkuche, O., Prien, R., Rehder, G., Schubert, C.J., Soltwedel, T., Sommer, S., Stahl, H., Stanev, E.V., Teaca, A., Tengberg, A., Waldmann, C., Wehrli, B., Wenzhöfer, F. | Investigating hypoxia in aquatic environments: Diverse approaches to addressing a complex phenomenon | Biogeosciences | 11 | 4 | 1215 | 1259 | RU 2 - Biogeochemistry in Coastal Seas RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 26 | Haller, M., Brümmer, B., Müller, G. | Atmosphere-ice forcing in the transpolar drift stream: Results from the DAMOCLES ice-buoy campaigns 2007-2009 | Cryosphere | 8 | 1 | 275 | 288 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 27 | Heim, B., Abramova, E., Doerffer, R., Günther, F., Hölemann, J., Kraberg, A., Lantuit, H., Loginova, A., Martynov, F., Overduin, P.P., Wegner, C. | Ocean colour remote sensing in the southern laptev sea: Evaluation and applications | Biogeosciences | 11 | 15 | 4191 | 4210 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 28 | Karimova, S. | Hydrological fronts seen in visible and infrared MODIS imagery of the Black Sea | International Journal of Remote Sensing | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 29 | Latasa, M., Henjes, J., Scharek, R. | Progressive decoupling between phytoplankton growth and microzooplankton grazing during an iron-induced phytoplankton bloom in the Southerns Ocean (EIFEX) | Marine Ecology Progress Series | 513 | | 39 | 50 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 30 | Liu, F., Su, J., Moll, A., Krasemann, H., Chen, X., Pohlmann, T., Wirtz, K. | Assessment of the summer-autumn bloom in the Bohai Sea using satellite images to identify the roles of wind mixing and light conditions | Journal of Marine Systems | 129 | | 303 | 317 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 31 | Liu, J., Bowman, K.W., Lee, M., Henze, D.K., Bousserez, N., Brix, H., Collatz, G.J., Menemenlis, D., Ott, L., Pawson, S., Jones, D., Nassar, R. | Carbon monitoring system flux estimation and attribution: Impact of ACOS-GOSAT XCO ₂ sampling on the inference of terrestrial biospheric sources and sinks | Tellus, Series B: Chemical and Physical Meteorology | 66 | 1 | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |

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|------|----|--|---|--|-----|----|------|------|----------------------------|--|
| 2014 | 32 | Luísa M. S. Borges, Huseyin Sivrikaya and Simon M. Cragg | First records of the warm water shipworm <i>Teredo bartschi</i> Clapp, 1923 (Bivalvia, Teredinidae) in Mersin, southern Turkey and in Olhão, Portugal | Bioinvasion Records | 3 | 1 | 25 | 28 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 33 | Maresca, S., Braca, P., Grasso, R., Horstmann, J. | Multiple oceanographic HF surface-wave radars applied to maritime surveillance | Fusion 2014 - Proceedings 17th International Conference on Information Fusion | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 34 | Maresca, S., Braca, P., Horstmann, J., Grasso, R. | A network of HF surface wave radars for maritime surveillance: Preliminary results in the German Bight | ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings | | | 6077 | 6081 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 35 | Maresca, S., Braca, P., Horstmann, J., Grasso, R. | Maritime surveillance using multiple high-frequency surface-wave radars | IEEE Transactions on Geoscience and Remote Sensing | 52 | 8 | 5056 | 5071 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 36 | McKee, D., Röttgers, R., Neukermans, G., Calzado, V.S., Trees C., Ampolo-Rella, M., Neil, C., Cunningham, A. | Impact of measurement uncertainties on determination of chlorophyll-specific adsorption coefficient for marine phytoplankton | Journal of Geophysical Research C: Oceans | 119 | 12 | 9013 | 9025 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 37 | Mielck, F., Bartsch, I., Hass, H.C., Wölfli, A.-C., Bürk, D., Betzler, C. | Predicting spatial kelp abundance in shallow coastal waters using the acoustic ground discrimination system RoxAnn | Estuarine, Coastal and Shelf Science | 143 | | 1 | 11 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 38 | Nauw, J.J., Merckelbach, L.M., Ridderinkhof, H., van Aken, H.M. | Long-term ferry-based observations of the suspended sediment fluxes through the Marsdiep inlet using acoustic Doppler current profilers | Journal of Sea Research | 87 | | 17 | 29 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 39 | Newton, A., Icely, J., Cristina, S., Brito, A., Cardoso, A.C., Colijn, F., Riva, S.D., Gertz, F., Hansen, J.W., Holmer, M., Ivanova, K., Leppäkoski, E., Canu, D.M., Mocenni, C., Mudge, S., Murray, N., Pejrup, M., Razinkovas, A., Reizopoulou, S., Pérez-Ruzafa, A., Schernewski, G., Schubert, H., Carr, L., Solidoro, C., PierluigiViaroli, Zaldívar, J.-M. | An overview of ecological status, vulnerability and future perspectives of European large shallow, semi-enclosed coastal systems, lagoons and transitional waters | Estuarine, Coastal and Shelf Science | 140 | | 95 | 122 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 40 | Petersen, W. | FerryBox systems: State-of-the-art in Europe and future development | Journal of Marine Systems | | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 41 | Röttgers, R., Dupouy, C., Taylor, B.B., Bracher, A., Woźniak, S.B. | Mass-specific light absorption coefficients of natural aquatic particles in the near-infrared spectral region | Limnology and Oceanography | 59 | 5 | 1449 | 1460 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |

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| 2014 | 42 | Röttgers, R., Heymann, K. | Suspended matter concentrations in coastal waters: Methodological improvements to quantify individual measurement uncertainty | Estuarine, Coastal and Shelf Science | 151 | | 148 | 155 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 43 | Röttgers, R., McKee, D. Utschig, C. | Temperature and salinity correction coefficients for light absorption by water in the visible to infrared spectral region | Optics Express | 22 | 21 | 25093 | 25108 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 44 | Shipway, R., Borges, L.M.S., Müller, J., Cragg, S.M. | The broadcast spawning Caribbean shipworm, <i>Teredothra dominicensis</i> (Bivalvia, Teredinidae), has invaded and become established in the eastern Mediterranean Sea | Biological Invasions | 16 | 10 | 2037 | 2048 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 45 | Sommer, T., Carpenter, J.R., Wüest, A. | Double-diffusive interfaces in Lake Kivu reproduced by direct numerical simulations | Geophysical Research Letters | 41 | 14 | 5114 | 5121 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 46 | Wollschläger, J., Nicolaus, A., Wiltshire, K.H., Metfies, K. | Assessment of North Sea phytoplankton via molecular sensing: A method evaluation | Journal of Plankton Research | 36 | 3 | 695 | 708 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 47 | Wollschläger, J., Röttgers, R., Petersen, W., Wiltshire, K.H. | Performance of absorption coefficient measurements for the in situ determination of chlorophyll-a and total suspended matter | Journal of Experimental Marine Biology and Ecology | 453 | | 138 | 147 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2014 | 48 | Xi, H., Larouche, P., Tang, S., Michel, C. | Characterization and variability of particle size distributions in Hudson Bay, Canada | Journal of Geophysical Research: Oceans | 119 | 6 | 3392 | 3406 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2014 | 49 | Zadelhoff, G.-J.V., Stoffelen, A., Vachon, P.W., Wolfe, J., Horstmann, J., Belmonte Rivas, M. | Retrieving hurricane wind speeds using cross-polarization C-band measurements | Atmospheric Measurement Techniques | 7 | 2 | 437 | 449 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 50 | Alpers, W., Mouche, A., Horstmann, J., Ivanov, A. Y., & Barabanov, V. S. | Application of a new algorithm using doppler information to retrieve complex wind fields over the black sea from ENVISAT SAR images. | International Journal of Remote Sensing | 36 | 3 | 863 | 881 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 51 | Antunes, I.C., Borges, L.M.S. et al. | Comparison between morphological and DNA barcode-suggested species boundaries among shallow-water amphipod fauna from the southern European Atlantic coast | Genome | 58 | 5 | 187 | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 52 | Borges, L.M.S. | The internal structure of the pallets of <i>Nototeredo norvagica</i> and <i>Psiloteredo megotara</i> (Bivalvia: Teredinidae): implications for subfamilial allocations | Zoomorphology | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 53 | Braca, P., Horstmann, J. et al. | Maritime surveillance with multiple over-the horizon HFSW radars: An overview of recent experimentation. | IEEE Aerospace and Electronic Systems Magazine | 30 | 12 | 4 | 18 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2015 | 54 | Bracher, A., Taylor, M. H., Taylor, B., Dinter, T., Röttgers, R., & Steinmetz, F. | Using empirical orthogonal functions derived from remote-sensing reflectance for the prediction of phytoplankton pigment concentrations. | Ocean Science | 11 | 1 | 139 | 158 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 55 | Brewin, R. J. W., Sathyendranath, S., Müller, D., Brockmann, C., Deschamps, P. -, Devred, E., White, G. N. | The ocean colour climate change initiative: III. A round-robin comparison on in-water bio-optical algorithms. | Remote Sensing of Environment | 162 | | 271 | 294 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 56 | Brix, H., Menemenlis, D. et al. | Using Green's Functions to initialize and adjust a global, eddying ocean biogeochemistry general circulation model | Ocean Modelling | 95 | | 1 | 14 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 57 | Costa, F.O., Borges, L.M.S. et al. | Priming a DNA barcode library for marine Gastropoda of the continental Portuguese coast and Azores Islands | Genome | 58 | 5 | 207 | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 58 | Garaba, Shungudzemwoyo P.; Voss, Daniela; Wollschlaeger, Jochen; et al. | Modern approaches to shipborne ocean color remote sensing. | APPLIED OPTICS | 54 | 12 | 3602 | 3612 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 59 | Germine, Vivone; Braca, Paolo; Jochen, Horstmann | Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. | IEEE Transactions on Geoscience and Remote Sensing | 53 | 7 | 3931 | 3949 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 60 | Guanter, L., Kaufmann, H., Doerffer, R., Krasemann, H., et al. | The EnMAP spaceborn imaging spectroscopy mission for earth observation | Remote Sensing | 7 | 7 | 8830 | 8857 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 61 | Haller, M., Jannssen, F., et al. | Evaluation of numerical models by FerrBox and fixed platform in situ data in the southern North Sea | Ocean Science | 11 | 6 | 879 | 896 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 62 | Hieronymus, M., Nylander, J. | Finding the minimum potential energy state by adiabatic parcel rearrangements with a nonlinear equation of state: An exact solution in polynomial time | Journal of Physical Oceanography | 45 | 7 | 1843 | 1847 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 63 | Hordoir, R., Kuznetsov, I. et al. | Influence of sea levlrise on the dynamics of salt inflows in the baltic sea | J. of Geophysical Research Oceans | 120 | 10 | 6653 | 6668 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 64 | Horstmann, Jochen; Falchetti, Silvia; Wackerman, Christopher; et al. | Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar. | IEEE Transactions on Geoscience and Remote Sensing | 53 | 5 | 2887 | 2898 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 65 | Lobo, J., Borger, L.M.S. et al. | DANN barcodes of polychaetes from the southern European Atlantic coast underscores the incipient state of the global reference library for this taxon | Genome | 58 | | 247 | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 66 | Lobo, J., Borger, L.M.S. et al. | Starting a DANN barcode reference library for shallow water polychaetes from the southern European Atlantic coast | Molecular Ecology Resources | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2015 | 67 | Mielck, F., Bürk, D. et al. | Interannual variability of sorted bedforms in the coastal german bight (SE north sea) | Continental Shelf Research | 111 | | 31 | 41 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 68 | Mueller, D.; Krasemann, H.; Brewin, R.J.W.; Brockmann, C.; Deschamps, P.-Y.; Doerffer, R.; Fomferra, N.; Franz, B.A.; Grant, M.G.; Groom, S.B.; Melin, F.; Platt, T.; Regner, P.; Sathyendranath, S.; Steinmetz, F.; Swinton, J. | The Ocean Colour Climate Change Initiative: I. A methodology for assessing atmospheric correction processors based on in-situ measurements. | Remote Sensing of Environment | 162 | | 242 | 256 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 69 | Mueller, D.; Krasemann, H.; Brewin, R.J.W.; Brockmann, C.; Deschamps, P.-Y.; Doerffer, R.; Fomferra, N.; Franz, B.A.; Grant, M.G.; Groom, S.B.; Melin, F.; Platt, T.; Regner, P.; Sathyendranath, S.; Steinmetz, F.; Swinton, J. | The Ocean Colour Climate Change Initiative: II. Spatial and temporal homogeneity of satellite data retrieval due to systematic effects in atmospheric correction processors. | Remote Sensing of Environment | 162 | | 257 | 270 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 70 | Nechad, B., Röttgers, R. et al. | CoastColour round robin data sets: A database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters | Earth System Science Data | 7 | 2 | 319 | 348 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 71 | Nycander, J., Hieronymus, M. et al. | The nonlinear equation of state of sea water and the global water mass distribution | Geophysical research letters | 42 | 18 | 7714 | 7721 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 72 | Ott, L.; Pawson, S.; Collatz, J.; gregg, W.; Menemenlis, D.; Brix, H.; Rousseaux, C.; Bowman, K.; liu, J.; Eldering, A.; Gunson, M.; Kawa, S.R. | Assessing the magnitude of CO2 flux uncertainty in atmospheric CO2 records using products from NASA's Carbon Monitoring Flux Pilot Project. | Journal of Geophysical Research | 120 | 2 | 734 | 765 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 73 | Pemberton, P., Nilsson, J., Hieronymus, M., Meier, H.E.M. | Arctic Ocean Water Mass Transformation in S-T Coordinates | Journal of Physical Oceanography | 45 | 4 | 1025 | 1050 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 74 | Purkiani, K., Becherer, J., Flöser, G., Gräwe, U., Mohrholz, V., Schuttelaars, H. M., & Burchard, H. | Numerical analysis of stratification and destratification processes in a tidally energetic inlet with an ebb tidal delta. | Journal of Geophysical Research C: Oceans | 120 | 1 | 225 | 243 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 75 | Ramirez-Perez, M., Röttgers, R. et al. | Cost-Effective Hyperspectral Transmissometers for Oceanographic Applications | Sensors | 15 | 9 | 20967 | 20989 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 76 | Reid, P.C., North, R.P. et al. | Global impacts of the 1980s regime shift | Global Change Biology | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 77 | Röttgers, R., Doxaran, D. et al. | Quantitative filter technique measurements of spectral light adsorption by aquatic particles using a portable integrating cavity adsorption meter (QFT-ICAM) | Optics express | | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2015 | 78 | Shen, C., Huanf, W. et al. | An Algorithm for surface current retrieval from x-band marine radar images | Remote Sensing | 7 | 6 | 7753 | 7767 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2015 | 79 | Silsbe, G.M., Oxborough, K, et al. | Toward autonomous measurements of photosynthetic electron transport rates: An evaluation of active fluorescence-based measurements of photochemistry | Limnol. Oceanogr. Methods | 13 | 3 | 138 | 155 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 80 | Stanev, E. V., Ziemer, F., Schulz-Stellenfleth, J., Seemann, J., Staneva, J., & Gurgel, K. -. | Blending surface currents from HF radar observations and numerical modeling: Tidal hindcasts and forecasts. | Journal of Atmospheric and Oceanic Technology | 32 | 2 | 256 | 281 | RU 1 - System Analysis and Modelling RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
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| 2015 | 84 | Weigelt, R., Borges, L.M.S. et al. | First time DANN barcoding of the common shipworm <i>teredo navalis</i> linnaeus 1758 | J. of Experimental Marine Biology and Ecology | 475 | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2015 | 85 | Wollschlaeger, J.; Wiltshire, K.H.; Petersen, W.; Metfies, K. | Analysis of phytoplankton distribution and community structure in the German Bight with respect to the different size classes. | Journal of Sea Research | 99 | | 83 | 96 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
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| 2015 | 88 | Yoynova, Y., Lebaron, K. et al. | In situ response of bay productivity to nutrient loading from a small tributary: The Delaware Bay-Murderkill Estuary tidally-coupled biogeochemical reactor | Estuarine Coastal and Shelf Science | 160 | | 33 | 48 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 89 | Acevedo-Trejos, Esteban; Brandt, Gunnar; Smith, S. Lan; et al. | Phytoplankton Size and Functional Diversity Model | GEOSCIENTIFIC MODEL DEVELOPMENT | 9 | 11 | 4071 | 4085 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2016 | 90 | Baschek, B., Schroeder, F., Brix, H., Riethmüller, R., Badewien, T. H., Breitbach, G., Brügge, B., Colijn, F., Doerffer, R., Eschenbach, C., Friedrich, J., Fischer, P., Garthe, S., Horstmann, J., Krasemann, H., Metfies, K., Ohle, N., Petersen, W., Pröfrock, D., Röttgers, R., Schlüter, M., Schulz, J., Schulz-Stellenfleth, J., Stanev, E., Winter, C., Wirtz, K., Wollschläger, J., Zielinski, O., and Ziemer, F | The Coastal Observing System for Northern and Arctic Seas (COSYNA) | Ocean Science | | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 91 | Becherer, J., G. Flöser, L. Umlauf, and H. Burchard | Estuarine circulation versus tidal pumping: Sediment transport in a well-mixed tidal inlet | J. Geophys. Res. Oceans | 121 | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
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| 2016 | 93 | Borges, LMS | The internal structure of the pallets of <i>Nototeredo norvagica</i> and <i>Psiloteredo megotara</i> (Bivalvia: Teredinidae): implications for subfamilial allocations | ZOOMORPHOLOGY | 135 | 1 | 33 | 41 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 94 | Breitbach, G., Krasemann, H., Behr, D., Behringer, S., Lange, U., Vo, N., Schroeder, F. | Accessing Diverse Data Comprehensively - CODM the COSYNA Data Portal | Ocean Science | 12 | 4 | 90 | 923 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 95 | Breitbach, G.; Petersen, W.; Reinke, S.; Gorringe, P.; Novellino, A. | A common European database for underway data from FerryBoxes | Bollettino di Geofisica Teorica ed Applicata | S 57 | 151 | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 96 | Brumovsky, M; Becanova, J; Kohoutek, J; Thomas, H; Petersen, W; Sorensen, K; Sanka, O; Nizzetto, L | Exploring the occurrence and distribution of contaminants of emerging concern through unmanned sampling from ships of opportunity in the North Sea | JOURNAL OF MARINE SYSTEMS | 162 | | 47 | 56 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 97 | Buckley, MP; Veron, F | Structure of the Airflow above Surface Waves | JOURNAL OF PHYSICAL OCEANOGRAPHY | 46 | 5 | 1377 | 1397 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 98 | Carpenter JR, Merckelbach L, Callies U, Clark S, Gaslikova L, Baschek B | Potential Impacts of Offshore Wind Farms on North Sea Stratification. | PLoS ONE | 11 | 8 | | | RU 3 - Operational Systems RU 2 - Biogeochemistry in Coastal Seas RU 1 - System Analysis and Modelling | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 99 | Drücker, S., Steglich, D., Merckelbach, L., Werner, A. Bergmann, S. | Finite element damage analysis of an underwater glider-ship collision | Journal of Marine Science and Technology | 21 | 2 | 261 | 270 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 100 | Fischer, S. J., York, J. K., Voynova, Y. G. and Ullman, W. J. | Distance-based mixing models of 618NNO-3 and 618ONO-3 in a marsh-lined estuary with multiple, distinct math formula sources (Murderkill Estuary, Delaware, USA) | Limnol. Oceanogr. | 62 | 2 | 408 | 420 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2016 | 101 | Gräwe, U., G. Flöser, T. Gerkema, M. Duran-Matute, T. H. Badewien, E. Schulz, and H. Burchard | A numerical model for the entire Wadden Sea: Skill assessment and analysis of hydrodynamics | J. Geophys. Res. Oceans | 121 | | 5231 | 5251 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 102 | Harmel, T; Hieronymi, M; Slade, W; Rottgers, R; Roullier, F; Chami, M | Laboratory experiments for inter-comparison of three volume scattering meters to measure angular scattering properties of hydrosols | OPTICS EXPRESS | 24 | 2 | A234 | A256 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 103 | Hieronymi M. | Reflectance and transmittance properties of sea surfaces-aspects of polarized ray tracing | European Space Agency, (Special Publication) ESA SP | SP-740 | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 104 | Hieronymi M., Krasemann H., Müller D., Brockmann C., Ruescas A., Stelzer K., Nechad B., Ruddick K., Simis S., Tilstone G., Steinmetz F., Regner P. | Ocean colour remote sensing of extreme case-2 waters | European Space Agency, (Special Publication) ESA SP | SP-740 | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 105 | Hieronymi, M. | Polarized reflectance and transmittance distribution functions of the ocean surface | Optics Express | 24 | 14 | A1045 | A1068 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 106 | Hieronymus, M.; Carpenter, J.R | Energy and Variance Budgets of a Diffusive Staircase with Implications for Heat Flux Scaling | Journal of Physical Oceanography | 46 | 8 | 2553 | 2569 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 107 | Hofmeister R., Flöser G., Schartau M. | Estuary-type circulation as a factor sustaining horizontal nutrient gradients in freshwater-influenced coastal systems | Geo-Marine Letters | | | 1 | 14 | RU 3 - Operational Systems RU 1 - System Analysis and Modelling | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 108 | Huang, WM; Carrasco, R; Shen, CX; Gill, EW; Horstmann, J | Surface Current Measurements Using X-Band Marine Radar With Vertical Polarization | IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING | 54 | 5 | 2988 | 2997 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 109 | Karimova, S; Gade, M | Improved statistics of sub-mesoscale eddies in the Baltic Sea retrieved from SAR imagery | INTERNATIONAL JOURNAL OF REMOTE SENSING | 37 | 10 | 2394 | 2414 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 110 | Lefering, I., Bengil, F., Trees, C., Röttgers, R., Bowers, D., Nimmo-Smith, A., Schwarz, J., McKee, D. | Optical closure in marine waters from in situ inherent optical property measurements | Optics Express | 24 | 13 | 14036 | 14052 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 111 | Lefering, Ina; Roettgers, Ruediger; Weeks, Rebecca; et al. | Improved determination of particulate absorption from combined filter pad and PSICAM measurements | OPTICS EXPRESS | 24 | 22 | 24805 | 24823 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 112 | Lobo, J.; Teixeira, M.A.L.; Borges, L.M.S.; Ferreira, M.S.G.; Hollatz, C.; Gomes, P.A.; Sousa, R.; Ravara, A.; Costa, M.H.; Costa, F.O. | Starting a DNA barcode reference library for shallow water polychaetes from the southern European Atlantic coast. | Molecular Ecology Resources | 16 | 1 | 298 | 313 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 113 | Merckelbach, L. | Depth-averaged instantaneous currents in a tidally dominated shelf sea from glider observations | Biogeosciences | 13 | 24 | 6637 | 6649 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |

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| 2016 | 114 | Metfies, K.; Schroeder, F.; Hessel, J.; Wollschlaeger, J.; Micheller, S.; Wolf, C.; Kilias, E.; Sprong, P.; Neuhaus, S.; Frickenhaus, S.; Petersen, W. | High-resolution monitoring of marine protists based on an observation strategy integrating automated on-board filtration and molecular analyses | Ocean Science | 12 | 6 | 1237 | 1247 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 115 | Müller D., Krasemann H., Zühlke M., Doerffer R., Brockmann C., Steinmetz F., Valente A., Brota V., Grant M.G., Sathyendranath S., Mélin F., Franz B.A., Mazeran C., Regner P. | The assessment of atmospheric correction processors for Meris based on in-situ measurements-updates in OC-CCI round Robin | European Space Agency, (Special Publication) ESA SP | SP-740 | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 116 | North. R.P., Riethmüller, R. , Baschek, B. | Detecting small-scale horizontal gradients in the upper ocean using wavelet analysis | Estuarine, Coastal and Shelf Science | 180 | | 221 | 229 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 117 | Oddo, P.; Storto, A.; Dobricic, S.; Russo, A.; Lewis, C.; Onken, R.; Coelho, E. | A hybrid variational-ensemble data assimilation scheme with systematic error correction for limited-area ocean models | Ocean Science | 12 | 5 | 1137 | 1153 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 118 | Petihakis, G., Petersen, W., Nair, R., Faimali, M., Pavanello, G., Boukerma, K., Delauney, L., Puillat, I., Farcy, P., Greenwood, N. | Harmonization in the joint European research infrastructure network for coastal observatories - JERICO | OCEANS 2015 - MTS/IEEE Washington | | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 119 | Pitarch, J; Volpe, G; Colella, S; Krasemann, H; Santoleri, R | Remote sensing of chlorophyll in the Baltic Sea at basin scale from 1997 to 2012 using merged multi-sensor data | OCEAN SCIENCE | 12 | 2 | 379 | 389 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 120 | Puillat, I., Farcy, P., Durand, D., Petihakis, G., Morin, P., Krieger, M., Petersen, W., Tintore, J., Sorensen, K., Sparnoccchia, S., Wehde, H. | Strategy for sustainability of the Joint European Research Infrastructure Network for Coastal Observatories - JERICO | OCEANS 2015 - MTS/IEEE Washington | | | | | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |
| 2016 | 121 | Reid, PC; Hari, RE; Beaugrand, G; Livingstone, DM; Marty, C; Straile, D; Barichivich, J; Goberville, E; Adrian, R; Aono, Y; Brown, R; Foster, J; Groisman, P; Helaouet, P; Hsu, HH; Kirby, R; Knight, J; Kraberg, A; Li, JP; Lo, TT; Myneni, RB; North, RP; Pounds, JA; Sparks, T; Stubi, R; Tian, YJ; Wiltshire, KH; Xiao, D; Zhu, ZC | Global impacts of the 1980s regime shift | GLOBAL CHANGE BIOLOGY | 22 | 2 | 682 | 703 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 122 | Serafino, F; Horstmann, J; Borge, JCN; Lugni, C; Broccolini, M | Sensors for Coastal Monitoring | JOURNAL OF SENSORS | | | | | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 123 | Sivrikaya, Hüseyin, Cetin, Hakan, Tümen, Ibrahim, Temiz, Cengiz, & Borges, L.M.S. | Performance of copper azole treated softwoods exposed to marine borers | Maderas. Ciencia y tecnología | 18 | 2 | 349 | 360 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 124 | Sparnoccchia, S; Nair, R; Petihakis, G; Aydogdu, A; Dobricic, S; Farcy, P; Martinelli, M; Petersen, W; de la Villeon, LP | An interlinked coastal observatory network for Europe | JOURNAL OF OPERATIONAL OCEANOGRAPHY | 9 | | S193 | S201 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |

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| 2016 | 125 | Tedetti, M., Marie, L., Röttgers, R., Rodier, M., Van Wambeke, F., Helias, S., Caffin, M., Cornet-Barthaux, V., Dupouy, C. | Evolution of dissolved and particulate chromophoric materials during the VAHINE mesocosm experiment in the New Caledonian coral lagoon (south-west Pacific) | Biogeosciences | 13 | 11 | 3283 | 3303 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 126 | Weigelt, R.; Lippert, H.; Borges, L.M.S.; Appelqvist, C.; Karsten, U.; Bastorp, R. | First time DNA barcoding of the common shipworm <i>Teredo navalis</i> Linnaeus 1758 (Mollusca: Bivalvia: Teredinidae): Molecular-taxonomic investigation and identification of a widespread wood-borer | Journal of Experimental Marine Biology and Ecology | 475 | | 154 | 162 | RU 3 - Operational Systems | Topic 2 - Fragile Coasts and Shelf Seas |
| 2016 | 127 | Wollschläger, J.; D. Voß; O. Zielinski; W. Petersen | In Situ Observations of Biological and Environmental Parameters by Means of Optics—Development of Next-Generation Ocean Sensors With Special Focus on an Integrating Cavity Approach | IEEE Journal of Oceanic Engineering | PP | 99 | 1 | 10 | RU 3 - Operational Systems | Topic 4 - Bridging Research and Society - Products, Tools and Climate Services |