Publication record research focus 3 (2016-2018)
July 2019

Total:	147
Articles in peer-reviewed journals	110
Articles in other journals	6
Monographs	9
Editorship of edited volumes	1
Individual contributions to edited volumes	8
Work and discussion papers	13

Articles in peer-reviewed journals (110)

Abraham, M.[CHE], N. Theobald and D. Schulz-Bull[CHE] (2017). Hexachlorocyclohexane - Long term variability and spatial distribution in the Baltic Sea. **Chemosphere 168**: 1356-1364, doi: 10.1016/j.chemosphere.2016.11.123 **FS3 CES Changing Ecosystems**

Allan, E., A. de Vernal, M. F. Knudsen, C. Hillaire-Marcel, M. Moros[GEO], S. Ribeiro, M. M. Ouellet-Bernier and M. S. Seidenkrantz (2018). Late Holocene Sea Surface Instabilities in the Disko Bugt Area, West Greenland, in Phase With δ18O Oscillations at Camp Century. **Palaeogeography Palaeoclimatology 33**: 227-243, doi: 10.1002/2017PA003289 **FS3 CES Changing Ecosystems**

Almroth-Rosell, E., M. Edman, K. Eilola, H. E. M. Meier[PHY] and J. Sahlberg (2016). Modelling nutrient retention in the coastal zone of an eutrophic sea. **Biogeosciences 13**: 5753-5769, doi: 10.5194/bg-13-5753-2016 **FS3 CES Changing Ecosystems**

Andrews, J. T., R. Stein, M. Moros[GEO] and K. Perner[GEO] (2016). Late Quaternary changes in sediment composition on the NE Greenland margin (~ to 73° N) with a focus on the fjords and shelf. **Boreas 45**: 381-397, doi: 10.1111/bor.12169 **FS3 CES Changing Ecosystems**

Arz, H. W.[GEO], T. Leipe[GEO] and M. Moros[GEO] (2017). The Baltic Sea: geology and palaeoenvironmental evolution - introduction. **Boreas 46**: 1-2, doi: 10.1111/bor.12214 **FS3 CES Changing Ecosystems**

Bartolino, V., H. Tian, U. Bergström, P. Jounela, E. Aro, C. Dieterich, H. E. M. Meier[PHY], M. Cardinale, B. Bland and M. Casini (2017). Spatio-temporal dynamics of a fish predator: density-dependent and hydrographic effects on Baltic Sea cod population. **PLoS One 12**: 0172004, doi: 10.1371/journal.pone.0172004 **FS3 CES Changing Ecosystems**

Bauer, B., H. E. M. Meier[PHY], M. Casini, A. Hoff, P. Margonski, A. Orio, S. Saraiva, J. Steenbeek and M. T. Tomczak (2018). Reducing eutrophication increases spatial extent of communities supporting commercial fisheries: a model case study. **ICES J. Mar. Sci. 75**: 1306-1317, doi: 10.1093/icesjms/fsy023 **FS3 CES Changing Ecosystems**

Becherer, J.[PHY] ,J. Hofstede, U. Gräwe[PHY], K. Purkiani[PHY], E. Schulz[PHY] and H. Burchard[PHY] (2018). The Wadden Sea in transition - consequences of sea level rise. **Ocean Dyn. 68**: 131-151, doi: 10.1007/s10236-017-1117-5 **FS3 CES Changing Ecosystems**
FS4 CSS Coastal Seas and Society

Beuscher, S., S. Kruger, W. Ehrmann, G. Schmiedl, Y. Milker, H. Arz[GEO] and H. Schulz (2017). End-member modelling as a tool for climate reconstruction - An Eastern Mediterranean case study. **PLoS One 12**: e0185136, doi: 10.1371/journal.pone.0185136 **FS3 CES Changing Ecosystems**

Binczewska, A., B. Risebrobakken, I. Polovodova Asteman, M. Moros[GEO], A. Tisserand, E. Jansen and A. Witkowski (2018). Coastal primary productivity changes over the last millennium: A case study from the Skagerrak (North Sea). **Biogeosciences 15**: 5909-5928, doi: 10.5194/bg-15-5909-2018 **FS3 CES Changing Ecosystems**

Binczewska, A., M. Moros, I. P. Asteman, J. Sławińska and M. Bąk (2018). Changes in the inflow of saline water into the Bornholm Basin (SW Baltic Sea) during the past 7100 years - evidence from benthic foraminifera record. **Boreas 47**: 297-310, doi: 10.1111/bor.12267 **FS3 CES Changing Ecosystems**

Börgel, F.[PHY], C. Frauen[PHY], T. Neumann[PHY], S. Schimanke and H. E. M. Meier[PHY] (2018). Impact of the Atlantic Multidecadal Oscillation on Baltic Sea variability. **Geophys. Res. Lett. 45**: 9880-9888, doi: 10.1029/2018gl078943 **FS3 CES Changing Ecosystems**

Böttcher, M. E.[GEO], J. Fiebig and H. Strauss (2016). Tales of mystery and imagination in stable isotope geochemistry: celebrating the 75th birthday of Jochen Hoefs. **Isot. Environ. Health Stud. 52**: 1-11, doi: 10.1080/10256016.2015.1114934 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems; FS4 CSS Coastal Seas and Society**

Brunnabend, S.-E.[PHY] and H. A. Dijkstra (2017). Asymmetric response of the Atlantic Meridional Ocean Circulation to freshwater anomalies in a strongly-eddying global ocean model. **Tellus Ser. A-Dyn. Meteorol. Oceanol. 69**: 1299283, doi: 10.1080/16000870.2017.1299283 **FS3 CES Changing Ecosystems**

Brunnabend, S.-E.[PHY], H. A. Dijkstra, M. A. Kliphuis, H. E. Bal, F. Seinstra, B. v. Werkhoven, J. Maassen and M. v. Meersbergen (2017). Changes in extreme regional sea level under global warming. **Ocean Sci. 13**: 47-60, doi: 10.5194/os-13-47-2017 **FS3 CES Changing Ecosystems**

Cabrera-Brito, L., G. Rodriguez, L. García-Weil, M. Pacheco, E. Perez and J. J. Waniek[CHE] (2017). Fractal analysis of deep ocean current speed time series. **J. Atmos. Ocean. Technol. 34**: 817-827, doi: 10.1175/JTECH-D-16-0098.1 **FS3 CES Changing Ecosystems**

Cui, Z., D. E. Schulz-Bull[CHE], Y. Hou, Z. Xia and J. J. Waniek[CHE] (2016). Geochemical characteristics and provenance of holocene sediments (Core STAT22) in the Beibu Gulf, South China Sea. **J. Coast. Res. 32**: 1105-1115, doi: 10.2112/JCOASTRES-D-14-00238.1 **FS3 CES Changing Ecosystems**

Czymzik, M.[GEO], E. Haltia, S. Saarni, T. Saarinen and A. Brauer (2018). Differential North Atlantic control of winter hydroclimate in late Holocene varved sediments of Lake Kortejärvi, eastern Finland. **Boreas 47**: 926-937, doi: 10.1111/bor.12315 **FS3 CES Changing Ecosystems**

Czymzik, M.[GEO], R. Muscheler, F. Adolphi, F. Mekhaldi, N. Dräger, F. Ott, M. Słowinski, M. Błaszkiewicz, A. Aldahan, G. Possnert and A. Brauer (2018). Synchronizing ^{10}Be in two varved lake sediment records to IntCal13 ^{14}C during three grand solar minima. **Clim. Past 14**: 687-696, doi: 10.5194/cp-14-687-2018 **FS3 CES Changing Ecosystems**

Dornelas, M., L. H. Antão, F. Moyes, A. E. Bates, A. E. Magurran, D. Adam, A. A. Akhmetzhanova, W. Appeltans, J. M. Arcos, H. Arnold, N. Ayyappan, G. Badihi, A. H. Baird, M. Barbosa, T. E. Barreto, C. Bässler, A. Bellgrove, J. Belmaker, L. Benedetti-Cecchi, B. J. Bett, A. D. Bjorkman, M. Błażewicz, S. A. Blowes, C. P. Bloch, T. C. Bonebrake, S. Boyd, M. Bradford, A. J. Brooks, J. H. Brown, H. Bruelheide, P. Budy, F. Carvalho, ……, R. B. Waide, C. Waldock, D. Watts, S. Webb, T. Wesołowski, E. P. White, C. E. Widdicombe, D. Wilgers, R. Williams, S. B. Williams, M. Williamson, M. R. Willig, T. J. Willis, S. Wipf, K. D. Woods, E. J. Woehler, K. Zawada and M. L. Zettler[BIO] (2018). BioTIME: A database of biodiversity time series for the Anthropocene. **Glob. Ecol. Biogeogr. 27**: 760-786, doi: doi:10.1111/geb.12729 **FS3 CES Changing Ecosystems**

Dutz, J.[BIO], J. G. Støttrup, C. Stenberg and P. Munk (2016). Recent trends in the abundance of plaice Pleuronectes platessa and cod Gadus morhua in shallow coastal waters of the Northeastern Atlantic continental shelf - a review. **Mar. Biol. Res. 12**: 785-796, doi: 10.1080/17451000.2016.1210806 **FS3 CES Changing Ecosystems**

Edman, M., K. Eilola, E. Almroth-Rosell, H. E. M. Meier[PHY], I. Wåhlström and L. Arneborg (2018). Nutrient retention in the Swedish coastal zone. **Front. Mar. Sci. 5**: 415, doi: 10.3389/fmars.2018.00415 **FS3 CES Changing Ecosystems**

Egger, M., M. Hagens, C. J. Sapart, N. Dijkstra, N. A. G. M. van Helmond, J. M. Mogollón, N. Risgaard-Petersen, C. van der Veen, S. Kasten, N. Riedinger, M. E. Böttcher[GEO], T. Röckmann, B. B. Jørgensen and C. P. Slomp (2017). Iron oxide reduction in methane-rich deep Baltic Sea sediments. **Geochim. Cosmochim. Acta 207**: 256-276, doi: 10.1016/j.gca.2017.03.019 **FS1 SMP Small- and meso-scale processesFS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

Fisch, K.[CHE], B. Li, Q. Liang, Y. Wang, Y. Ni, K. Liang, M. Zhoud, J. J. Waniek[CHE] and D. E. Schulz-Bull[CHE] (2017). Occurrence of the two endocrine disruptors octocrylene and nonylphenoxyacetic acid in four Chinese aquatic systems. **J. Aquat. Poll. Toxicol. 2**: 19 **FS3 CES Changing Ecosystems**

Fisch, K.[CHE], J. J. Waniek [CHE] and D. E. Schulz-Bull [CHE] (2017). Occurrence of pharmaceuticals and UV-filters in riverine run-offs and waters of the German Baltic Sea. **Mar. Poll. Bull. 124**: 388-399, doi: 10.1016/j.marpolbul.2017.07.057 **FS3 CES Changing Ecosystems**

Folmer, E. O., J. E. E. van Beusekom, T. Dolch, U. Gräwe[PHY], M. M. v. Katwijk, K. Kolbe and C. J. M. Philippart (2016). Consensus forecasting of intertidal seagrass habitat in the Wadden Sea. **J. Appl. Ecol. 53**: 1800-1813, doi: 10.1111/1365-2664.12681 **FS3 CES Changing Ecosystems**

Frassl, M. A., B. Boehrer, P. L. Holtermann[PHY], W. Hu, K. Klingbeil[PHY], Z. Peng, J. Zhu and K. Rinke (2018). Opportunities and limits of using meteorological reanalysis data for simulating seasonal to sub-daily water temperature dynamics in a large shallow lake. **Water 10**: 594, doi: 10.3390/w10050594 **FS3 CES Changing Ecosystems**

Grotheer, H., P. F. Greenwood, M. T. McCulloch, M. E. Böttcher[GEO] and K. Grice (2017). δ34S character of organosulfur compounds in kerogen and bitumen fractions of sedimentary rocks. **Org. Geochem. 110**: 60-64, doi: 10.1016/j.orggeochem.2017.04.005 **FS3 CES Changing Ecosystems**

Gu, F., K. A. F. Zonneveld, C. M. Chiessi, H. W. Arz[GEO], J. Pätzold and H. Behling (2017). Long-term vegetation, climate and ocean dynamics inferred from a 73,500 years old marine sediment core (GeoB2107-3) off southern Brazil. **Quat. Sci. Rev. 172**: 55-71, doi: 10.1016/j.quascirev.2017.06.028 **FS3 CES Changing Ecosystems**

Haddam, N. A., G. Siani, E. Michel, J. Kaiser[GEO], F. Lamy, S. Duchamp-Alphonse, J. Hefter, P. Braconnot, F. Dewilde, G. Isgüder, N. Tisnerat-Laborde, F. Thil, N. Durand and C. Kissel (2018). Changes in latitudinal sea surface temperature gradients along the Southern Chilean margin since the last glacial. **Quat. Sci. Rev. 194**: 62-76, doi: 10.1016/j.quascirev.2018.06.023 **FS3 CES Changing Ecosystems**

Hagen, E. [PHY] and J. J. Agenbag (2018). Namibian rainfall and the 1933/34 Benguela Niño. **Meteorol. Z. 27**: 125-134, doi: 10.1127/metz/2018/0745 **FS3 CES Changing Ecosystems**

Häusler, K.[GEO], O. Dellwig[GEO], B. Schnetger, P. Feldens[GEO], T. Leipe[GEO], M. Moros[GEO], F. Pollehne[BIO], M. Schönke[GEO], A. Wegwerth[GEO] and H. W. Arz[GEO] (2018). Massive Mn carbonate formation in the Landsort Deep (Baltic Sea): Hydrographic conditions, temporal succession, and Mn budget calculations. **Mar. Geol. 395**: 260-270, doi: 10.1016/j.margeo.2017.10.010 **FS3 CES Changing Ecosystems**

Häusler, K.[GEO], M. Moros[GEO], L. Wacker, L. Hammerschmidt, O. Dellwig[GEO], T. Leipe[GEO], A. Kotilainen and H. W. Arz[GEO] (2017). Mid- to late Holocene environmental separation of the northern and central Baltic Sea basins in response to differential land uplift. **Boreas 46**: 111-128, doi: 10.1111/bor.12198 **FS3 CES Changing Ecosystems**

Hieronymus, J., K. Eilola, M. Hieronymus, H. E. M. Meier[PHY], S. Saraiva and B. Karlson (2018). Causes of simulated long-term changes in phytoplankton biomass in the Baltic proper: a wavelet analysis. **Biogeosciences 15**: 5113-5129, doi: 10.5194/bg-15-5113-2018 **FS3 CES Changing Ecosystems**

Ho-Hagemann, H. T. M., M. Gröger, B. Rockel, M. Zahn, B. Geyer and H. E. M. Meier[PHY] (2017). Effects of air-sea coupling over the North Sea and the Baltic Sea on simulated summer precipitation over Central Europe. **Clim. Dyn. 49**: 3851-3876, doi: 10.1007/s00382-017-3546-8 **FS3 CES Changing Ecosystems**

Holopainen, R., M. Lehtiniemi, H. E. M. Meier[PHY], J. Albertsson, E. Gorokhova, J. Kotta and M. Viitasalo (2016). Impacts of changing climate on the non-indigenous invertebrates in the northern Baltic Sea by end of the twenty-first century. **Biol. Invasions 18**: 3015-3032, doi: 10.1007/s10530-016-1197-z **FS3 CES Changing Ecosystems**

Jensen, J. B., M. Moros[GEO], R. Endler[GEO] and IODP Expedition 347 Members (2017). The Bornholm Basin, southern Scandinavia: a complex history from Late Cretaceous structural developments to recent sedimentation. **Boreas 46**: 3-17, doi: 10.1111/bor.12194 **FS3 CES Changing Ecosystems**

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Kaiser, J.[GEO], M. Moros[GEO], M. Tomczak, O. Dellwig[GEO], D. Schulz-Bull[CHE] and H. W. Arz[GEO] (2018). The invasive diatom Pseudosolenia calcar-avis and specific C25 isoprenoid lipids as a sedimentary time marker in the Black Sea. **Geology 46**: 507-510, doi: 10.1130/g40294.1 **FS3 CES Changing Ecosystems; FS1 SMP Small- and meso-scale processes**

Kaiser, J.[GEO], B. Ön, H. W. Arz[GEO] and S. Akçer-Ön (2016). Sedimentary lipid biomarkers in the magnesium rich and highly alkaline Lake Salda (south-western Anatolia). **J. Limnol. 75**: 581-596, doi: 10.4081/jlimnol.2016.1337 **FS1 SMP Small- and meso-scale processes; FS3 CES Changing Ecosystems**

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Kolling, H. M., R. Stein, K. Fahl, K. Perner[GEO] and M. Moros[GEO] (2017). Short-term variability in late Holocene sea ice cover on the East Greenland Shelf and its driving mechanisms. **Palaeogeogr., Palaeoclimatol., Palaeoecol. 485**: 336-350, doi: 10.1016/j.palaeo.2017.06.024 **FS3 CES Changing Ecosystems**

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Kreuzburg, M.[CHE], M. Ibenthal, M. Janssen, G. Rehder[CHE], M. Voss[BIO], M. Naumann[PHY] and P. Feldens[GEO] (2018). Sub-marine continuation of peat deposits from a coastal peatland in the southern Baltic Sea and its Holocene development. **Front. Earth Sci. 6**: 103, doi: 10.3389/feart.2018.00103 **FS3 CES Changing Ecosystems**

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Le Quéré, C., R. M. Andrew, P. Friedlingstein, S. Sitch, J. Hauck, J. Pongratz, P. A. Pickers, J. I. Korsbakken, G. P. Peters, J. G. Canadell, A. Arneth, V. K. Arora, L. Barbero, A. Bastos, L. Bopp, F. Chevallier, L. P. Chini, P. Ciais, S. C. Doney, T. Gkritzalis, D. S. Goll, I. Harris, V. Haverd, F. M. Hoffmann, M. Hoppema, R. A. Houghton, G. Hurtt, T. Ilyina, A. K. Jain, T. Johannessen, C. D. Jones, E. Kato, R. F. Keeling, K. Klein Goldwijk, P. Landschützer, N. Lefèvre, S. Lienert, Z. Liu, D. Lombardozzi, N. Metzl, D. R. Munro, J. E. M. S. Nabel, S.-i. Nakaoka, C. Neill, A. Olsen, T. Ono, P.

Patra, A. Peregon, W. Peters, P. Peylin, B. Pfeil, D. Pierrot, B. Poulter, G. Rehder[CHE], L. Resplandy, E. Robertson, M. Rocher, C. Rödenbeck, U. Schuster, J. Schwinger, R. Séférian, I. Skjelvan, T. Steinhoff, A. Sutton, P. P. Tans, H. Tian, B. Tilbrook, F. N. Tubiello, I. T. van der Laan-Luijkx, G. R. Van der Werf, N. Viovy, A. P. Walker, A. J. Wiltshire, R. Wright, S. Zaehle and B. Zheng (2018). Global Carbon Budget 2018. **Earth Syst. Sci. Data 10**: 2141-2194, doi: 10.5194/essd-10-2141-2018 **FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

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Leduc, G., T. de Garidel-Thoron, J. Kaiser[GEO], C. Bolton and C. Contoux (2017). Databases for sea surface paleotemperature based on geochemical proxies from marine sediments: Implications for model-data comparisons. **Quaternaire 28**: 201-216, doi: 10.4000/quaternaire.8034 **FS3 CES Changing Ecosystems**

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Liblik, T., M. Naumann[PHY], P. Alenius, M. Hansson, U. Lips, G. Nausch[CHE], L. Tuomi, K. Wesslander, J. Laanemets and L. Viktorsson (2018). Propagation of impact of the recent Major Baltic Inflows from the Eastern Gotland basin to the Gulf of Finland. **Front. Mar. Sci. 5**: 222, doi: 10.3389/fmars.2018.00222 **FS3 CES Changing Ecosystems**

Liu, Y., H. E. M. Meier[PHY] and K. Eilola (2017). Nutrient transports in the Baltic Sea - results from a 30-year physical-biogeochemical reanalysis. **Biogeosciences 14**: 2113-2131, doi: 10.5194/bg-14-2113-2017 **FS3 CES Changing Ecosystems**

Meier, H. E. M.[PHY], M. K. Edman, K. J. Eilola, M. Placke[PHY], T. Neumann[PHY], H. C. Andersson, S.-E. Brunnabend[PHY], C. Dieterich, C. Frauen[PHY], R. Friedland[KMP], M. Gröger, B. G. Gustafsson, E. Gustafsson, A. Isaev, M. Kniebusch[PHY], I. Kuznetsov, B. Müller-Karulis, A. Omstedt, V. Ryabchenko, S. Saraiva and O. P. Savchuk (2018). Assessment of eutrophication abatement scenarios for the Baltic Sea by multi-model ensemble simulations. **Front. Mar. Sci. 5**: 440, doi: 10.3389/fmars.2018.00440 **FS3 CES Changing Ecosystems**

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