

Publication record of Research Focus 1 (2016/2017/2018)

(July 2019)

Total:	135
Articles in peer-reviewed journals	123
Articles in other journals	5
Monographs	0
Editorship of edited volumes	0
Individual contributions to edited volumes	4
Work and discussion papers	3

Articles in peer-reviewed journals (123)

Albarakati, A. M. A., D. F. McGinnis, F. Ahmad, P. Linke, M. Dengler, P. Feldens^{GEO}, M. Schmidt and R. Al-Farawati (2016). Thermal small steps staircase and layer migration in the Atlantis II Deep, Red Sea. **Arab. J. Geosci.** **9**: 392, doi: 10.1007/s12517-016-2399-5 **FS1 SMP Small- and meso-scale processes**

Al-Janabi, B., I. Kruse, A. Graiff, V. Winde^{GEO}, M. Lenz and M. Wahl (2016). Buffering and amplifying interactions among OAW (Ocean Acidification & Warming) and nutrient enrichment on early life-stage *Fucus vesiculosus* L. (Phaeophyceae) and their carry over effects to hypoxia impact. **PLoS One** **11**: e0152948, doi: 10.1371/journal.pone.0152948 **FS1 SMP Small- and meso-scale processes**

Anderson, R., K. Jürgens^{BIO} and P. J. Hansen (2017). Mixotrophic phytoflagellate bacterivory field measurements strongly biased by standard approaches: A case study. **Front. Microbiol.** **8**: 1398, doi: 10.3389/fmicb.2017.01398 **FS1 SMP Small- and meso-scale processes**

Anderson, R., S. Charvet^{BIO} and P. J. Hansen (2018). Mixotrophy in chlorophytes and haptophytes - Effect of irradiance, macronutrient, micronutrient and vitamin limitation. **Front. Microbiol.** **9**: 1704, doi: 10.3389/fmicb.2018.01704 **FS1 SMP Small- and meso-scale processes**

Becherer, J.^{PHY}, G. Flöser, L. Umlauf^{PHY} and H. Burchard^{PHY} (2016). Estuarine circulation versus tidal pumping: sediment transport in a well-mixed tidal inlet. **J. Geophys. Res. Oceans** **121**: 6251-6270, doi: 10.1002/2016JC011640 **FS1 SMP Small- and meso-scale processes**

Beier, S.^{BIO}, D. Shen^{BIO}, T. Schott^{BIO} and K. Jürgens^{BIO} (2017). Metatranscriptomic data reveal the effect of different community properties on multifunctional redundancy. **Mol. Ecol.** **26**: 6813-6826, doi: 10.1111/mec.14409 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics**

Bennke, C. M.^{BIO}, K. Krüger, L. Kappelmann, S. Huang, A. Gobet, M. Schüler, V. Barbe, B. M. Fuchs, G. Michel, H. Teeling and R. I. Amann (2016). Polysaccharide utilisation loci of Bacteroidetes from

two contrasting open ocean sites in the North Atlantic. *Environ. Microbiol.* **18**: 4456-4470, doi: 10.1111/1462-2920.13429 **FS 1SMP Small- and mesoscale processes**

Bergen, B.^{BIO}, S. Endres, A. Engel, M. Zark, T. Dittmar, U. Sommer and K. Jürgens^{BIO} (2016). Acidification and warming affect prominent bacteria in two seasonal phytoplankton bloom mesocosms. *Environ. Microbiol.* **18**: 4579-4595, doi: 10.1111/1462-2920.13549 **FS1 SMP Small- and meso-scale processes**

Bernreuther, M., J. Peters, C. Möllmann, J. Renz, J. Dutz^{BIO}, J.-P. Herrmann and A. Temming (2018). Trophic decoupling of mesozooplankton production and the pelagic planktivores sprat *Sprattus sprattus* and herring *Clupea harengus* in the Central Baltic Sea. *Mar. Ecol. Prog. Ser.* **592**: 181-196, doi: 10.3354/meps12512 **FS1 SMP Small- and meso-scale processes**

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

Böttcher, M. E.^{GEO}, N. Neubert, K. v. Allmen, E. Samankassou and T. F. Nägler (2018). Barium isotope fractionation during the experimental transformation of aragonite to witherite and of gypsum to barite, and the effect of ion (de)solvation. *Isot. Environ. Health Stud.* **54**: 324-335, doi: 10.1080/10256016.2018.1430692 **FS1 SMP Small- and meso-scale processes**

Böttcher, M. E.^{GEO}, N. Neubert, P. Escher, K. v. Allmen, E. Samankassou and T. F. Nägler (2018). Multi-isotope (Ba, C, O) partitioning during experimental carbonatization of a hyper-alkaline solution. *Chem. Erde* **78**: 241-247, doi: 10.1016/j.chemer.2018.01.001 **FS1 SMP Small- and meso-scale processes**

Bolius, S., C. Wiedner^{DIR} and G. Weithoff (2017). High local trait variability in a globally invasive cyanobacterium. *Freshw. Biol.* **62**: 1879-1890, doi: 10.1111/fwb.13028 **FS1 SMP Small- and meso-scale processes**

Braun, P. D.^{BIO}, H. N. Schulz-Vogt^{BIO}, A. Vogts^{BIO} and M. Nausch^{BIO} (2018). Differences in the accumulation of phosphorus between vegetative cells and heterocysts in the cyanobacterium *Nodularia spumigena*. *Sci. Rep.* **8**: 5651, doi: 10.1038/s41598-018-23992-1 **FS1 SMP Small- and meso-scale processes**

Burgin, M. and R. Feistel^{PHY} (2017). Structural and symbolic information in the context of the general theory of information. *Information* **8**: 139, doi: 10.3390/info8040139 **FS1 SMP Small- and meso-scale processes**

Burt, W. J., H. Thomas, M. Hagens, J. Pätsch, N. M. Clargo, L. A. Salt, V. Winde^{GEO} and M. E. Böttcher^{GEO} (2016). Carbon sources in the North Sea evaluated by means of radium and stable

carbon isotope tracers. **Limnol. Oceanogr.** **61**: 666-683, doi: 10.1002/lno.10243 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics**

Chegini, F.^{PHY}, Y. Lu, A. Katavouta and H. Ritchie (2018). Coastal upwelling off southwest Nova Scotia simulated with a high-resolution baroclinic ocean model. **J. Geophys. Res. Oceans** **123**: 2318-2331, doi: 10.1002/2017jc013431 **FS2 BED Basin-scale Ecosystem Dynamics; FS1 SMP Small- and meso-scale processes**

Corsaro, D., R. Michel, J. Walochnik, D. Venditti, K. D. Muller, B. Hauröder, C. Wylezich^{BIO} (2016). Molecular identification of *Nucleophaga terricolae* sp. nov. (Rozellomycota), and new insights on the origin of the Microsporidia. **Parasitol. Res.** **115**: 3003-3011, doi: 10.1007/s00436-016-5055-9 **FS1 SMP Small- and mesoscale processes**

Corsaro, D., C. Wylezich^{BIO}, J. Walochnik, D. Venditti and R. Michel (2017). Molecular identification of bacterial endosymbionts of *Sappinia* strains. **Parasitol. Res.** **116**: 549-558, doi: 10.1007/s00436-016-5319-4 **FS1 SMP Small- and meso-scale processes**

Dickson, A. G., M. F. Camões, P. Spitzer, P. Fiscaro, D. Stoica, R. Pawlowicz and R. Feistel^{PHY} (2016). Metrological challenges for measurements of key climatological observables. Part 3: seawater pH. **Metrologia** **53**: R26-R39, doi: 10.1088/0026-1394/53/1/R26 **FS1 SMP Small- and meso-scale processes**

Dijkstra, Y. M., H. M. Schuttelaars and H. Burchard^{PHY} (2017). Generation of exchange flows in estuaries by tidal and gravitational eddy viscosity-shear covariance (ESCO). **J. Geophys. Res. Oceans** **122**: 4217-4237, doi: 10.1002/2016jc012379 **FS1 SMP Small- and meso-scale processes**

Donis, D., F. Janssen, B. Liu, F. Wenzhöfer, O. Dellwig^{GEO}, P. Escher, A. Spitzky and M. E. Böttcher^{GEO} (2017). Biogeochemical impact of submarine ground water discharge on coastal surface sands of the southern Baltic Sea. **Estuar. Coast. Shelf Sci.** **189**: 131-142, doi: 10.1016/j.ecss.2017.03.003 **FS1 SMP Small- and meso-scale processes**

Dutz, J.^{BIO} and A. M. Christensen (2018). Broad plasticity in the salinity tolerance of a marine copepod species, *Acartia longiremis*, in the Baltic Sea. **J. Plankton Res.** **40**: 342-355, doi: 10.1093/plankt/fby013 **FS1 SMP Small- and meso-scale processes**

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 processes; FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

Eglite, E.^{BIO}, D. Wodarg^{CHE}, J. Dutz^{BIO}, N. Wasmund^{BIO}, G. Nausch^{CHE}, I. Liskow^{BIO}, D. Schulz-Bull^{CHE} and N. Loick-Wilde^{BIO} (2018). Strategies of amino acid supply in mesozooplankton during cyanobacteria blooms: a stable nitrogen isotope approach. **Ecosphere** **9**: e02135, doi: 10.1002/ecs2.2135 **FS1 SMP Small- and meso-scale processes**

Eigemann, F.^{BIO}, U. Mischke, M. Hupfer, J. Schaumburg and S. Hilt (2016). Biological indicators track differential responses of pelagic and littoral areas to nutrient load reductions in German lakes. **Ecol. Indic.** **61**: 905-910, doi: 10.1016/j.ecolind.2015.10.045 **FS1 SMP Small- and mesoscale processes**

Eigemann, F., M. Schwartke and H. N. Schulz-Vogt (2018). Niche separation of Baltic Sea cyanobacteria during bloom events by species interactions and autecological preferences. **Harmful Algae** **72**: 65-73, doi: 10.1016/j.hal.2018.01.001 **FS1 SMP Small- and meso-scale processes**

Endoh, T., Y. Yoshikawa, T. Matsuno, Y. Wakata, K.-J. Lee and L. Umlauf (2016). Observational evidence for tidal straining over a sloping continental shelf. **Cont. Shelf Res.** **117**: 12-19, doi: 10.1016/j.csr.2016.01.018 **FS1 SMP Small- and meso-scale processes**

Engel, A., H. W. Bange, M. Cunliffe, S. M. Burrows, G. Friedrichs, L. Galgani, H. Herrmann, N. Hertkorn, M. Johnson, P. S. Liss, P. K. Quinn, M. Schartau, A. Soloviev, C. Stolle^{BIO}, R. C. Upstill-Goddard, M. v. Pinxteren and B. Zäncker (2017). The ocean's vital skin: Toward an integrated understanding of the sea surface microlayer. **Front. Mar. Sci.** **4**: 165, doi: 10.3389/fmars.2017.00165 **FS1 SMP Small- and meso-scale processes**

Feistel, R.^{PHY} and J. W. Lovell-Smith (2017). Defining relative humidity in terms of water activity. Part 1: definition. **Metrologia** **54**: 566-576, doi: 10.1088/1681-7575/aa7083 **FS1 SMP Small- and meso-scale processes**

Feistel, R.^{PHY}, J. W. Lovell-Smith, P. Saunders and S. Seitz (2016). Uncertainty of empirical correlation equations. **Metrologia** **53**: 1079-1090, doi: 10.1088/0026-1394/53/4/1079 **FS1 SMP Small- and meso-scale processes**

Feistel, R.^{PHY}, R. Wielgosz, S. A. Bell, M. F. Camões, J. R. Cooper, P. Dexter, A. G. Dickson, P. Fiscaro, A. H. Harvey, M. Heinonen, O. Hellmuth, H.-J. Kretzschmar, J. W. Lovell-Smith, T. J. McDougall, R. Pawlucz, P. Ridout, S. Seitz, P. Spitzer, D. Stoica and H. Wolf (2016). Metrological challenges for measurements of key climatological observables: oceanic salinity and pH, and atmospheric humidity. Part 1: overview. **Metrologia** **53**: R1-R11, doi: 10.1088/0026-1394/53/1/r1 **FS1 SMP Small- and meso-scale processes**

Feistel, R.^{PHY} (2018). Thermodynamic properties of seawater, ice and humid air: TEOS-10, before and beyond. **Ocean Sci.** **14**: 471-502, doi: 10.5194/os-14-471-2018 **FS1 SMP Small- and meso-scale processes**

Feldens, P.^{GEO}, M. Schmidt, I. Mücke, N. Augustin, R. Al-Farawati, M. Orif and E. Faber (2016). Expelled subsalt fluids form a pockmark field in the eastern Red Sea. **Geo-Mar. Lett.** **36**: 339-352, doi: 10.1007/s00367-016-0451-9 **FS1 SMP Small- and meso-scale processes**

Fernández-Urruzola, I., N. Osma, M. Gómez, F. Pollehne^{BIO}, L. Postel and T. T. Packard (2016). Modeling downward particulate organic nitrogen flux from zooplankton ammonium regeneration in

the northern Benguela. **Prog. Oceanogr.** **149**: 121-133, doi: 10.1016/j.pocean.2016.10.010 **FS1 SMP Small- and meso-scale processes**

Fourquez, M., S. Beier^{BIO}, E. Jongmans, R. Hunter and I. Obernosterer (2016). Uptake of leucine, chitin, and iron by prokaryotic groups during spring phytoplankton blooms induced by natural iron fertilization off Kerguelen Island (Southern Ocean). **Front. Mar. Sci.** **3**: 256, doi: 10.3389/fmars.2016.00256 **FS1 SMP Small- and meso-scale processes**

Fuchs, A., J. Klier^{BIO}, F. Pinto, G. B. Selmeczy, B. Szabó, J. Padisák, K. Jürgens^{BIO} and P. Casper (2017). Effects of artificial thermocline deepening on sedimentation rates and microbial processes in the sediment. **Hydrobiologia** **799**: 65-81, doi: 10.1007/s10750-017-3202-7 **FS1 SMP Small- and meso-scale processes**

Gogina, M.^{BIO}, M. Lipka^{GEO}, J. Woelfel^{CHE}, B. Liu^{GEO}, C. Morys, M. E. Böttcher^{GEO} and M. L. Zettler^{BIO} (2018). In search of a field-based relationship between benthic macrofauna and biogeochemistry in a modern brackish coastal sea. **Front. Mar. Sci.** **5**: 489, doi: 10.3389/fmars.2018.00489 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics**

Gronholz, A., U. Gräwe^{PHY}, A. Paul and M. Schulz (2017). Investigating the effects of a summer storm on the North Sea stratification using a regional coupled ocean-atmosphere model. **Ocean Dyn.** **67**: 211-235, doi: 10.1007/s10236-016-1023-2 **FS1 SMP Small- and meso-scale processes**

Grubisic, L. M., S. Bertilsson, A. Eiler, F. Heinrich, A. Brutemark, L. Alonso-Sáez, A. F. Andersson, S. Gantner, L. Riemann and S. Beier^{BIO} (2017). Lake bacterioplankton dynamics over diurnal timescales. **Freshw. Biol.** **62**: 191-204, doi: 10.1111/fwb.12861 **FS1 SMP Small- and meso-scale processes**

Hammer, K.^{CHE}, B. Schneider^{CHE}, K. Kuliński and D. E. Schulz-Bull^{CHE} (2017). Acid-base properties of Baltic Sea dissolved organic matter. **J. Mar. Syst.** **173**: 114-121, doi: 10.1016/j.jmarsys.2017.04.007 **FS2 BED Basin-scale Ecosystem Dynamics; FS1 SMP Small- and meso-scale processes**

Hellmuth, O., A. K. Shchekin, R. Feistel^{PHY}, J. W. P. Schmelzer and A. S. Abyzov (2018). Physical interpretation of ice contact angles, fitted to experimental data on immersion freezing of kaolinite particles. **Interfacial Phenom. Heat Transf.** **6**: 37-74, doi: 10.1615/InterfacPhenomHeatTransfer.2018026166 **FS1 SMP Small- and meso-scale processes**

Holtermann, P.^{PHY} L., R. Prien^{CHE}, M. Naumann^{PHY}, V. Mohrholtz^{PHY} and L. Umlauf^{PHY} (2017). Deepwater dynamics and mixing processes during a major inflow event in the central Baltic Sea. **J. Geophys. Res. Oceans** **122**: 6648-6667, doi: 10.1002/2017JC013050 **FS1 SMP Small- and meso-scale processes**

Hosono, T., J. Hartmann, P. Louvat, T. Amann, K. E. Washington, A. J. West, K. Okamura, M. E. Böttcher^{GEO} and J. Gaillardet (2018). Earthquake-induced structural deformations enhance long-term solute fluxes from active volcanic systems. **Sci. Rep.** **8**: 14809, doi: 10.1038/s41598-018-32735-1 **FS1 SMP Small- and meso-scale processes**

Ivanina, A., V., B. M. Borah, A. Vogts^{BIO}, I. Malik, J. Wu, A. R. Chin, A. J. Almarza, P. Kumta, H. Piontkivska, E. Beniash and I. M. Sokolova (2018). Potential trade-offs between biomineralization and immunity revealed by shell properties and gene expression profiles of two closely related *Crassostrea* species. **J. Exp. Biol.** **221**: jeb183236, doi: 10.1242/jeb.183236 **FS1 SMP Small- and meso-scale processes**

Jakobs, G.^{CHE}, M. Labrenz^{BIO}, G. Rehder^{CHE}, S. Hietanen, K. Kießlich, A. Vogts^{BIO}, M. Blumenberg and O. Schmale^{CHE} (2016). A bioreactor approach to investigate the linkage between methane oxidation and nitrate/nitrite reduction in the pelagic oxic-aoxic transition zone of the central Baltic Sea. **Front. Mar. Sci.** **3**: article 145, doi: 10.3389/fmars.2016.00145 **FS1 SMP Small- and meso-scale processes**

Jurasinski, G., M. Janssen, M. Voss^{BIO}, M. E. Böttcher^{GEO}, M. Brede, H. Burchard^{PHY}, S. Forster, L. Gosch, U. Gräwe^{PHY}, S. Gründling-Pfaff, F. Haider, M. Ibenthal, N. Karow, U. Karsten, M. Kreuzburg^{BIO}, X. Lange^{PHY}, P. Leinweber, G. Massmann, T. Ptak, F. Rezanezhad, G. Rehder^{CHE}, K. Romoth, H. Schade, H. Schubert, H. Schulz-Vogt^{BIO}, I. M. Sokolova, R. Strehse, V. Unger, J. Westphal^{GEO} and B. Lennartz (2018). Understanding the coastal ecocline: Assessing sea-land interactions at non-tidal, low-lying coasts through interdisciplinary research. **Front. Mar. Sci.** **5**: 342, doi: 10.3389/fmars.2018.00342 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics**

Kaiser, J.^{GEO}, M. T. J. v. d. Meer and H. W. Arz^{GEO} (2017). Long-chain alkenones in Baltic Sea surface sediments: new insights. **Org. Geochem.** **112**: 93-104, doi: 10.1016/j.orggeochem.2017.07.002 **FS3 CES Changing Ecosystems; FS1 SMP Small- and meso-scale processes**

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**

Kedzior, S.^{CHE}, A. Buß, B. Schneider^{CHE}, J. Schneider von Deimling, J. Sültenfuß, M. Walter, C. Mertens and G. Rehder^{CHE} (2016). Geochemical observations within the water column at the CO₂-rich hydrothermal systems Hatoma Knoll and Yonaguni Knoll IV, in the southern Okinawa Trough. **J. Geophys. Res. Oceans** **121**: 6618-6634, doi: 10.1002/2016JC012003 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics**

Khalili, A. and B. Liu^{GEO} (2017). Stokes' paradox: creeping flow past a two-dimensional cylinder in an infinite domain. **J. Fluid Mech.** **817**: 374-387, doi: 10.1017/jfm.2017.127 **FS1 SMP Small- and meso-scale processes**

Köstner, N., L. Scharnreitner, K. Jürgens^{BIO}, M. Labrenz^{BIO}, G. J. Herndl and C. Winter (2017). High viral abundance as a consequence of low viral decay in the Baltic Sea redoxcline. **PLoS One** **12**: e0178467, doi: 10.1371/journal.pone.0178467 **FS1 SMP Small- and meso-scale processes**

Kreutzmann, A.-C. and H. N. Schulz-Vogt^{BIO} (2016). Oxidation of molecular hydrogen by a chemolithoautotrophic *Beggiatoa* strain. **Appl. Environ. Microbiol.** **82**: 2527-2536, doi: 10.1128/aem.03818-15 **FS1 SMP Small- and meso-scale processes**

Kuliński, K., B. Szymczycha, K. Koziarowska, K. Hammer^{CHE} and B. Schneider^{CHE} (2018). Anomaly of total boron concentration in the brackish waters of the Baltic Sea and its consequence for the CO₂ system calculations. **Mar. Chem.** **204**: 11-19, doi: 10.1016/j.marchem.2018.05.007 **FS1 SMP Small- and meso-scale processes**

Kuss, J.^{CHE}, S. Krüger, J. Ruickoldt and K.-P. Wlost (2018). High-resolution measurements of elemental mercury in surface water for an improved quantitative understanding of the Baltic Sea as a source of atmospheric mercury. **Atmos. Chem. Phys.** **18**: 4361-4376, doi: 10.5194/acp-18-4361-2018 **FS1 SMP Small- and meso-scale processes**

Langer, S.^{BIO}, A. Vogts^{BIO} and H. N. Schulz-Vogt^{BIO} (2018). Simultaneous visualization of enzymatic activity in the cytoplasm and at polyphosphate inclusions in *Beggiatoa* sp. Strain 35Flor incubated with ¹⁸O-labeled water. **mSphere** **3**: e00489-18, doi: 10.1128/mSphere.00489-18 **FS1 SMP Small- and meso-scale processes**

Lappe, C.^{PHY} and L. Umlauf^{PHY} (2016). Efficient boundary mixing due to near-inertial waves in a nontidal basin: observations from the Baltic Sea. **J. Geophys. Res. Oceans** **121**: 8287-8304, doi: 10.1002/2016JC011985 **FS1 SMP Small- and meso-scale processes**

Lin, Z., X. Sun, H. Strauss, Y. Lu, M. E. Böttcher^{GEO}, B. M. A. Teichert, J. Gong, L. Xu, J. Liang, H. Lu and J. Peckmann (2018). Multiple sulfur isotopic evidence for the origin of elemental sulfur in an iron-dominated gas hydrate-bearing sedimentary environment. **Mar. Geol.** **403**: 271-284, doi: 10.1016/j.margeo.2018.06.010 **FS1 SMP Small- and meso-scale processes**

Lipka, M.^{GEO}, J. Woelfel^{CHE}, M. Gogina^{BIO}, J. Kallmeyer, B. Liu^{GEO}, C. Morys, S. Forster and M. E. Böttcher^{GEO} (2018). Solute reservoirs reflect variability of early diagenetic processes in temperate brackish surface sediments. **Front. Mar. Sci.** **5**: 413, doi: 10.3389/fmars.2018.00413 **FS1 SMP Small- and meso-scale processes**

Lovell-Smith, J. W., R. Feistel^{PHY}, A. H. Harvey, O. Hellmuth, S. A. Bell, M. Heinonen and J. R. Cooper (2016). Metrological challenges for measurements of key climatological observables. Part 4: atmospheric relative humidity. **Metrologia** **53**: R40-R59, doi: 10.1088/0026-1394/53/1/r40 **FS1 SMP Small- and meso-scale processes**

Lovell-Smith, J. W., P. Saunders and R. Feistel^{PHY} (2017). Unleashing empirical equations with “Nonlinear Fitting” and “GUM Tree Calculator”. **Int. J. Thermophys.** **38**: 148, doi: 10.1007/s10765-017-2282-y **FS1 SMP Small- and meso-scale processes**

Luo, Z.-H., Y.-P. Yu, G. Jost^{BIO}, W.-H. Liu, X.-L. Huang and L. Gu (2016). Characterization of two bacteriophages for specific treatment of biofilm formed by a *Vibrio* sp. isolated from an abalone farm. *Aquac. Res.* **47**: 3964-3972, doi: 10.1111/are.12846 **FS1 SMP Small- and meso-scale processes; FS4 CSS Coastal Seas and Society**

Maerz, J., R. Hofmeister, E. M. v. d. Lee, U. Gräwe^{PHY}, R. Riethmüller and K. W. Wirtz (2016). Maximum sinking velocities of suspended particulate matter in a coastal transition zone. *Biogeosciences* **13**: 4863-4876, doi: 10.5194/bg-13-4863-2016 **FS1 SMP Small- and meso-scale processes**

Mandal, S., H. Homma, A. Priyadarshi, H. Burchard^{PHY}, S. L. Smith, K. W. Wirtz and H. Yamazaki (2016). A 1D physical-biological model of the impact of highly intermittent phytoplankton distributions. *J. Plankton Res.* **38**: 964-976, doi: 10.1093/plankt/fbwo19 **FS1 SMP Small- and meso-scale processes**

Matallana-Surget, S., J. Werner^{BIO}, R. Wattiez, K. Lebaron, L. Intertaglia, C. Regan, J. Morris, H. Teeling, M. Ferrer, P. N. Golyshin, D. Gerogiorgis, S. I. Reilly and P. Lebaron (2018). Proteogenomic analysis of *Epibacterium Mobile* BBCC367, a relevant marine bacterium isolated from the South Pacific Ocean. *Front. Microbiol.* **9**: 3125, doi: 10.3389/fmicb.2018.03125 **FS1 SMP Small- and meso-scale processes**

Matantseva, O., I. Pozdnyakov, M. Voss^{BIO}, I. Liskow and S. Skarlato (2018). The uncoupled assimilation of carbon and nitrogen from urea and glycine by the bloom-forming dinoflagellate *Prorocentrum minimum*. *Protist* **169**: 603-614, doi: 10.1016/j.protis.2018.05.006 **FS1 SMP Small- and meso-scale processes**

Matantseva, O., S. Skarlato, A. Vogts^{BIO}, I. Pozdnyakov, I. Liskow, H. Schubert and M. Voss^{BIO} (2016). Superposition of individual activities: urea-mediated suppression of nitrate uptake in the dinoflagellate *Prorocentrum minimum* revealed at the population and single-cell levels. *Front. Microbiol.* **7**: 01310, doi: 10.3389/fmicb.2016.01310 **FS1 SMP Small- and meso-scale processes**

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