

SUPPLEMENT

Annual Report 2018



Royal Netherlands Institute
for Sea Research

TABLE OF CONTENTS



Royal Netherlands Institute
for Sea Research

Royal NIOZ is part of the
institutes organisation
of NWO, in cooperation
with Utrecht University



Peer-reviewed papers	2
Non-refereed papers	26
Monographs.....	26
Chapters in books	26
Dissertations.....	27
Professional publications	28
Publications aimed at the general public	29



PEER-REVIEWED PAPERS

1. Alvarez-Fernandez, S.; Bach, L.T.; Taucher, J.; Riebesell, U.; Sommer, U.; Aberle, N.; Brusgaard, C.P.D.; Boersma, M. (2018). Plankton responses to ocean acidification: The role of nutrient limitation. *Prog. Oceanogr.* 165: 11-18.
<https://doi.org/10.1016/j.pocean.2018.04.006>
2. ANTARES collaboration (van Haren, H.); IceCube Collaboration; Gaggero, D.; Grasso, D. (2018). Joint constraints on galactic diffuse neutrino emission from the ANTARES and Ice-Cube neutrino telescopes. *Astrophys. J. Lett.* 868: L20.
<https://doi.org/10.3847/2041-8213/aaeefc>
3. ANTARES collaboration (van Haren, H.) (2018). The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. *Astrophys. J. Lett.* 863(2): L30.
<https://dx.doi.org/10.3847/2041-8213/aad8c0>
4. ANTARES collaboration (van Haren, H.) (2018). The cosmic ray shadow of the Moon observed with the ANTARES neutrino telescope. *Eur. Phys. J. C* 78(12): 1006.
<https://doi.org/10.1140/epjc/s10052-018-6451-3>
5. ANTARES collaboration (van Haren, H.) (2018). Long-term monitoring of the ANTARES optical module efficiencies using ^{40}K decays in sea water. *Eur. Phys. J. C* 78(8).
<https://dx.doi.org/10.1140/epjc/s10052-018-6132-2>
6. ANTARES collaboration (van Haren, H.) (2018). All-flavor search for a diffuse flux of cosmic neutrinos with nine years of ANTARES data. *Astrophys. J. Lett.* 853(1): L7.
<https://doi.org/10.3847/2041-8213/aaa4f6>
7. ANTARES collaboration (van Haren, H.) (2018). The SUrvey for Pulsars and Extragalactic Radio Bursts – II. New FRB discoveries and their follow-up. *Monthly Notices of the Royal Astronomical Society* 475(2): 1427-1446.
<https://doi.org/10.1093/mnras/stx3074>
8. Amaral-Zettler, L.; Schmidt, V.; Smith, K. (2018). Microbial community and potential pathogen shifts along an ornamental fish supply chain. *Microorganisms* 6(3): 91.
<https://doi.org/10.3390/microorganisms6030091>
9. Antonioli, F.; Ferranti, L.; Stocchi, P.; Deiana, G.; Lo Presti, V.; Furlani, S.; Marino, C.; Orru, P.; Scicchitano, G.; Trainito, E.; Anzidei, M.; Bonamini, M.; Sansò, P.; Mastronuzzi, G. (2018). Morphometry and elevation of the last interglacial tidal notches in tectonically stable coasts of the Mediterranean Sea. *Earth-Sci. Rev.* 185: 600-623.
<https://doi.org/10.1016/j.earscirev.2018.06.017>
10. Arabi, B.; Salama, M.S.; Wernand, M.R.; Verhoef, W. (2018). Remote sensing of water constituent concentrations using time series of in-situ hyperspectral measurements in the Wadden Sea. *Remote Sens. Environ.* 216: 154-170.
<https://doi.org/10.1016/j.rse.2018.06.040>
11. Baar, A.W.; de Smit, J.; Uijttewaal, W.S.J.; Kleinhans, M.G. (2018). Sediment transport of fine sand to fine gravel on transverse bed slopes in rotating annular flume experiments. *Water Resour. Res.* 54(1): 19-45.
<https://doi.org/10.1002/2017WR020604>
12. Bale, N.J.; Hopmans, E.C.; Dorhout, D.; Stal, L.J.; Grego, M.; van Bleijswijk, J.D.L.; Sinninghe Damsté, J.S.; Schouten, S. (2018). A novel heterocyst glycolipid detected in a pelagic N_2 -fixing cyanobacterium of the genus *Calothrix*. *Org. Geochem.* 123: 44-47.
<https://doi.org/10.1016/j.orggeochem.2018.06.009>



13. Bale, N.J.; Villareal, T.A.; Hopmans, E.C.; Brussaard, C.P.D.; Besseling, M.; Dorhout, D.; Sininghe Damsté, J.S.; Schouten, S. (2018). C₅ glycolipids of heterocystous cyanobacteria track symbiont abundance in the diatom *Hemiaulus hauckii* across the tropical North Atlantic. *Biogeosciences* 15(4): 1229-1241.
<https://dx.doi.org/10.5194/bg-15-1229-2018>
14. Ballesta-Artero, I.; Zhao, L.; Milano, S.; Mertz-Kraus, R.; Schöne, B.R.; van der Meer, J.; Witbaard, R. (2018). Environmental and biological factors influencing trace elemental and microstructural properties of *Arctica islandica* shells. *Sci. Total Environ.* 645: 913-923.
<https://doi.org/10.1016/j.scitotenv.2018.07.116>
15. Ballesta-Artero, I.; Janssen, R.; Van der Meer, J.; Witbaard, R. (2018). Interactive effects of temperature and food availability on the growth of *Arctica islandica* (Bivalvia) juveniles. *Mar. Environ. Res.* 133: 67-77.
<https://dx.doi.org/10.1016/j.marenvres.2017.12.004>
16. Baltar, F.; Gutiérrez-Rodríguez, A.; Meyer, M.; Skudelny, I.; Sander, S.; Thomson, B.; Nodder, S.; Middag, R.; Morales, S.E. (2018). Specific effect of trace metals on marine heterotrophic microbial activity and diversity: Key role of iron and zinc and hydrocarbon-degrading bacteria. *Front. Microbiol.* 9: 3190.
<https://doi.org/10.3389/fmicb.2018.03190>
17. Balzano, S.; Lattaud, J.; Villanueva, L.; Rampen, S.W.; Brussaard, C.P.D.; van Bleijswijk, J.; Bale, N.; Sininghe Damsté, J.S.; Schouten, S. (2018). A quest for the biological sources of long chain alkyl diols in the western tropical North Atlantic Ocean. *Biogeosciences* 15(19): 5951-5968.
<https://doi.org/10.5194/bg-15-5951-2018>
18. Bartl, I.; Liskow, I.; Schulz, K.; Umlauf, L.; Voss, M. (2018). River plume and bottom boundary layer – Hotspots for nitrification in a coastal bay? *Est., Coast. and Shelf Sci.* 208: 70-82.
<https://doi.org/10.1016/j.ecss.2018.04.023>
19. Bastiaansen, R.; Jaïbi, O.; Deblauwe, V.; Eppinga, M.B.; Siteur, K.; Siero, E.; Mermoz, S.; Bouvet, A.; Doelman, A.; Rietkerk, M. (2018). Multistability of model and real dryland ecosystems through spatial self-organization. *Proc. Natl. Acad. Sci. U.S.A.* 115(44): 11256-11261.
<https://doi.org/10.1073/pnas.1804771115>
20. Bellacicco, M.; Volpe, G.; Briggs, N.; Brando, V.; Pitarch, P.; Landolfi, A.; Colella, S.; Marullo, S.; Santoleri, R. (2018). Global distribution of non-algal particles from ocean color data and implications for phytoplankton biomass detection. *Geophys. Res. Lett.* 45: 7672-7682.
<https://doi.org/10.1029/2018GL078185>
21. Belova, S.E.; Suzina, N.E.; Rijpstra, W.I.C.; Sininghe Damsté, J.S.; Dedysh, S.N. (2018). *Edaphobacter lichenicola* sp. nov., a member of the family *Acidobacteriaceae* from lichen-dominated forested tundra. *Int. J. Syst. Evol. Microbiol.* 68(4): 1265-1270.
<https://dx.doi.org/10.1099/ijsem.0.002663>
22. Belova, S.E.; Ravin, N.V.; Pankratov, T.A.; Rakitin, A.L.; Ivanova, A.; Beletsky, A.V.; Mardanov, A.V.; Sininghe Damsté, J.S.; Dedysh, S.N. (2018). Hydrolytic capabilities as a key to environmental success: chitinolytic and cellulolytic *Acidobacteria* from acidic sub-arctic soils and boreal peatlands. *Front. Microbiol.* 9: 2775.
<https://doi.org/10.3389/fmicb.2018.02775>
23. Beraud, C.; van der Molen, J.; Armstrong, M.; Hunter, E.; Fonseca, L.; Hyder, K. (2018). The influence of oceanographic conditions and larval behaviour on settlement success—the

European sea bass *Dicentrarchus labrax* (L.). *ICES J. Mar. Sci./J. Cons. int. Explor. Mer* 75(2): 455–470.

<https://dx.doi.org/10.1093/icesjms/fsx195>

24. Bergauer, K.; Fernández-Guerra, A.; García, J.A.L.; Sprenger, R.R.; Stepanauskas, R.; Pachia-daki, M.G.; Jensen, O.N.; Herndl, G. (2018). Organic matter processing by microbial communities throughout the Atlantic water column as revealed by metaproteomics. *Proc. Natl. Acad. Sci. U.S.A.* 115(3): E400-E408.
<https://dx.doi.org/10.1073/pnas.1708779115>
25. Bertlich, J.; Nürnberg, D.; Hathorne, E.C.; de Nooijer, L.J.; Mezger, E.M.; Kienast, M.; Nordhausen, S.; Reichart, G.-J.; Schönfeld, J.; Bijma, J. (2018). Salinity control on Na incorporation into calcite tests of the planktonic foraminifera *Trilobatus sacculifer* – evidence from culture experiments and surface sediments. *Biogeosciences* 15(20): 5991-6018.
<https://doi.org/10.5194/bg-15-5991-2018>
26. Bertolini, C.; Montgomery, W. I.; O'Connor, N.E. (2018). Habitat with small inter-structural spaces promotes mussel survival and reef generation. *Mar. Biol. (Berl.)* 165(10): 163.
<https://doi.org/10.1007/s00227-018-3426-8>
27. Besseling, M.A.; Hopmans, E.C.; Boschman, R.C.; Sinnighe Damsté, J.S.; Villanueva, L. (2018). Benthic archaea as potential sources of tetraether membrane lipids in sediments across an oxygen minimum zone. *Biogeosciences* 15: 4047-4064.
<https://doi.org/10.5194/bg-15-4047-2018>
28. Best, Ü.S.N.; van der Wegen, M.; Dijkstra, J.; Willemse, P.W.J.M.; Borsje, B.W.; Roelvink, D.J.A. (2018). Do salt marshes survive sea level rise? Modelling wave action, morphodynamics and vegetation dynamics. *Environ. Model. Softw.* 109: 152-166.
<https://doi.org/10.1016/j.envsoft.2018.08.004>
29. Beukema, J.J.; Dekker, R. (2018). Effects of cockle abundance and cockle fishery on bivalve recruitment. *J. Sea Res.* 140: 81-86.
<https://dx.doi.org/10.1016/j.seares.2018.07.013>
30. Bijleveld, A.I.; Compton, T.J.; Klunder, L.; Holthuijsen, S.; ten Horn, J.; Koolhaas, A.; Dekkinga, A.; Van der Meer, J.; van der Veer, H.W. (2018). Presence-absence of marine macrozoobenthos does not generally predict abundance and biomass. *NPG Scientific Reports* 8(1): 12.
<https://dx.doi.org/10.1038/s41598-018-21285-1>
31. Bojanowski, M.J.; Ciurej, A.; Haczewski, G.; Jokubauskas, P.; Schouten, S.; Tyszka, J.; Bijl, P.K. (2018). The Central Paratethys during Oligocene as an ancient counterpart of the present-day Black Sea: Unique records from the coccolith limestones. *Mar. Geol.* 403: 301-328.
<https://doi.org/10.1016/j.margeo.2018.06.011>
32. Bom, R.A.; van Gils, J.A.; Oosterbeek, K.; Deuzeman, S.; de Fouw, J; Kwarteng, A.Y.; Kentie, R. (2018). Demography of a stable population of crab plovers wintering in Oman. *J. Ornithol.* 159(2): 517-525.
<https://dx.doi.org/10.1007/s10336-018-1529-0>
33. Bom, R.A.; de Fouw, J; Klaassen, R.H.G.; Piersma, T.; Lavaleye, M.S.S.; Ens, B.J.; Oudman, T.; van Gils, J.A. (2018). Food web consequences of an evolutionary arms race: Molluscs subject to crab predation on intertidal mudflats in Oman are unavailable to shorebirds. *J. Biogeogr.* 45(2): 342-354.
<https://dx.doi.org/10.1111/jbi.13123>
34. Bonneau, L.; Colin, C.; Pons-Branchu, E.; Mienis, F.; Tisnerat-Laborde, N.; Blamart, D.; Elliot, M.; Collart, T.; Frank, N.; Foliot, L.; Douville, E. (2018). Imprint of Holocene climate variability on cold-water coral reef growth at the SW Rockall Trough Margin, NE Atlantic. *Geo-*



- chem. Geophys. Geosyst.* 19(8): 2437-2452.
<https://dx.doi.org/10.1029/2018gc007502>
35. Boone, W.; Rysgaard, S.; Carlson, D.F.; Meire, L.; Kirillov, S.; Mortensen, J.; Dmitrenko, I.; Vergeynst, L.; Sejr, M.K. (2018). Coastal freshening prevents fjord bottom water renewal in Northeast Greenland: A mooring study from 2003 to 2015. *Geophys. Res. Lett.* 45(6): 2726-2733.
<https://doi.org/10.1002/2017GL076591>
36. Borst, A.C.W.; Verberk, W.C.E.P.; Angelini, C.; Schotanus, J.; Wolters, J.-W; Christianen, M.J.A.; van der Zee, E.M.; Derksen-Hooijberg, M.; van der Heide, T. (2018). Foundation species enhance food web complexity through non-trophic facilitation. *PLoS One* 13(8): e0199152.
<https://doi.org/10.1371/journal.pone.0199152>
37. Bougeois, L.; Dupont-Nivet, G.; de Rafélis, M.; Tindall, J.C.; Proust, J.-N.; Reichart, G.-J.; de Nooijer, L.J.; Guo, Z.; Ormukov, C. (2018). Asian monsoons and aridification response to Paleogene sea retreat and Neogene westerly shielding indicated by seasonality in Paratethys oysters. *Earth Planet. Sci. Lett.* 485: 99-110.
<https://doi.org/10.1016/j.epsl.2017.12.036>
38. Boussellaa, W.; Neifar, L.; Goedknegt, M.A.; Thieltges, D.W. (2018). Lessepsian migration and parasitism: richness, prevalence and intensity of parasites in the invasive fish *Sphyraena chrysotaenia* compared to its native congener *Sphyraena sphyraena* in Tunisian coastal waters. *PeerJ* 6: e5558.
<https://doi.org/10.7717/peerj.5558>
39. Bown, J.; van Haren, H.; Meredith, M.P.; Venables, H.J.; Laan, P.; Brearley, J.A.; De Baar, H.J.W. (2018). Evidences of strong sources of DFe and DMn in Ryder Bay, Western Antarctic Peninsula. *Philos. Trans. - Royal Soc., Math. Phys. Eng. Sci.* 376(2122): 20170172.
<https://dx.doi.org/10.1098/rsta.2017.0172>
40. Brown, A.; Hauton, C.; Stratmann, T.; Sweetman, A.; Van Oevelen, D.; Jones, D.O.B. (2018). Metabolic rates are significantly lower in abyssal Holothuroidea than in shallow-water Holothuroidea. *Royal Society Open Science* 5: 172162.
<https://dx.doi.org/10.1098/rsos.172162>
41. Budischak, S.A.; Hansen, C.B.; Caudron, Q.; Garnier, R.; Kartzinel, T.R.; Pelczer, I.; Cressler, C.E.; van Leeuwen, A.; Graham, A.L. (2018). Feeding Immunity: Physiological and Behavioral Responses to Infection and Resource Limitation. *Frontiers in Immunology* 8: 1914.
<https://dx.doi.org/10.3389/fimmu.2017.01914>
42. Bulleri, F.; Eriksson, B.K.; Queirós, A.; Airolidi, L.; Arenas, F.; Arvanitidis, C.; Bouma, T.J.; Crowe, T.P.; Davoult, D.; Guizien, K.; Ivesa, L.; Jenkins, S.R.; Michalet, R.; Olabarria, C.; Procaccini, G.; Serrão, E.A.; Wahl, M.; Benedetti-Cecchi, L. (2018). Harnessing positive species interactions as a tool against climate-driven loss of coastal biodiversity. *PLoS Biology* 16(9): e2006852.
<https://doi.org/10.1371/journal.pbio.2006852>
43. Burdorf, L.D.W.; Malkin, S.Y.; Bjerg, J.T.; van Rijswijk, P.; Criens, F.; Tramper, A.; Meysman, F.J.R. (2018). The effect of oxygen availability on long-distance electron transport in marine sediments. *Limnol. Oceanogr.* 63(4): 1799-1816.
<https://doi.org/10.1002/lno.10809>
44. Burian, A.; Grosse, J.; Winder, M.; Boschker, H.T.S. (2018). Nutrient deficiencies and the restriction of compensatory mechanisms in copepods. *Funct. Ecol.* 32(3): 636-647.
<https://doi.org/10.1111/1365-2435.13016>



45. Burson, A.; Stomp, M.; Greenwell, E.; Grosse, J.; Huisman, J. (2018). Competition for nutrients and light: testing advances in resource competition with a natural phytoplankton community. *Ecology* 99(5): 1108-1118.
<https://doi.org/10.1002/ecy.2187>
46. Buttigieg, P.L.; Fadeev, E.; Bienhold, C.; Hehemann, L.; Offre, P.; Boetius, A. (2018). Marine microbes in 4D - using time series observation to assess the dynamics of the ocean microbiome and its links to ocean health. *Curr. Opin. Microbiol.* 43: 169-185.
<https://dx.doi.org/10.1016/j.mib.2018.01.015>
47. Cao, H.; Zhu, Z.; Balke, T; Zhang, L.; Bouma, T.J. (2018). Effects of sediment disturbance regimes on *Spartina* seedling establishment: Implications for salt marsh creation and restoration. *Limnol. Oceanogr.* 63(2): 647-659.
<https://dx.doi.org/10.1002/lno.10657>
48. Carroll, D.; Sutherland, D. A.; Curry, B.; Nash, J.D.; Shroyer, E.L.; Catania, G.A.; Stearns, L.A.; Grist, J.P.; de Steur, L. (2018). Subannual and Seasonal Variability of Atlantic-Origin Waters in Two Adjacent West Greenland Fjords. *J. Geophys. Res. Oceans* 123(9): 6670-6687.
<https://doi.org/10.1029/2018jc014278>
49. Chowdhury, M.S.N.; Wijsman, J.W.M.; Hossain, M.S.; Ysebaert, T.; Smaal, A.C. (2018). DEB parameter estimation for *Saccostrea cucullata* (Born), an intertidal rock oyster in the Northern Bay of Bengal. *J. Sea Res.* 142: 180-190.
<https://doi.org/10.1016/j.seares.2018.09.005>
50. Cohen-Rengifo, M; Agüera, A.; Detrain, C.; Bouma, T.J.; Dubois, P.; Flammang, P. (2018). Biomechanics and behaviour in the sea urchin *Paracentrotus lividus* (Lamarck, 1816) when facing gradually increasing water flows. *J. Exp. Mar. Biol. Ecol.* 506: 61-71.
<https://doi.org/10.1016/j.jembe.2018.05.010>
51. Cornacchia, L.; van de Koppel, J.; van der Wal, D.; Wharton, G.; Puijalon, S.; Bouma, T.J. (2018). Landscapes of facilitation: how self-organized patchiness of aquatic macrophytes promotes diversity in streams. *Ecology* 99(4): 832-847.
<https://doi.org/10.1002/ecy.2177>
52. Costa-Böddeker, S.; Thuyên, L.X.; Hoelzmann, P.; de Stigter, H.C.; van Gaever, P.; Schwalb, A. (2018). The hidden threat of heavy metal pollution in high sedimentation and highly dynamic environment: Assessment of metal accumulation rates in the Thi Vai Estuary, Southern Vietnam. *Environ. Pollut.* 242: 348-356.
<https://doi.org/10.1016/j.envpol.2018.05.096>
53. Coxall, H.K.; Huck, C.E.; Huber, M.; Lear, C.H.; Legarda-Lisarri, A.; O'Regan, M.; Sliwinska, K.K.; van de Flierdt, T.; de Boer, A.M.; Zachos, J.C.; Backman, J. (2018). Export of nutrient rich northern component water preceded early Oligocene Antarctic glaciation. *Nature Geoscience* 11(3): 190-196.
<https://dx.doi.org/10.1038/s41561-018-0069-9>
54. Cozzoli, F.; Bouma, T.J.; Ottolander, P.; Lluch, M.S.; Ysebaert, T.; Herman, P.M.J. (2018). The combined influence of body size and density on cohesive sediment resuspension by bioturbators. *NPG Scientific Reports* 8(1): 3831.
<https://doi.org/10.1038/s41598-018-22190-3>
55. Cramwinckel, M.J.; Huber, M.; Kocken, I.J.; Agnini, C.; Bijl, P.K.; Bohaty, S.M.; Frieling, J.; Goldner, A.; Hilgen, F.J.; Kip, E.L.; Peterse, F; van der Ploeg, R.; Röhl, U.; Schouten, S.; Sluijs, A. (2018). Synchronous tropical and polar temperature evolution in the Eocene. *Nature (Lond.)* 559(7714): 382-386.
<https://hdl.handle.net/10.1038/s41586-018-0272-2>



56. Cuvelier, D.; Gollner, S.; Jones, D.O.B.; Kaiser, S.; Arbizu, P.M.; Menzel, L.; Mestre, N.C.; Morato, T.; Pham, C.K.; Pradillon, F.; Purser, A.; Raschka, U.; Sarrazin, J.; Simon-Lledó, E.; Stewart, I.M.; Stuckas, H.; Sweetman, A.K.; Colaço, A. (2018). Potential mitigation and restoration actions in ecosystems impacted by seabed mining. *Front. Mar. Sci.* 5: 467. <https://dx.doi.org/10.3389/fmars.2018.00467>
57. Daggers, T.D.; Kromkamp, J.C.; Herman, P.M.J.; van der Wal, D. (2018). A model to assess microphytobenthic primary production in tidal systems using satellite remote sensing. *Remote Sens. Environ.* 211: 129-145. <https://hdl.handle.net/10.1016/j.rse.2018.03.037>
58. Damveld, J.H.; van der Reijden, K.J.; Cheng, C.; Koop, L.; Haaksma, L.R.; Walsh, C.A.J.; Soetaert, K.; Borsje, B.W.; Govers, L.L; Roos, P.C.; Olff, H.; Hulscher, S.J.M.H. (2018). Video transects reveal that tidal sand waves affect the spatial distribution of benthic organisms and sand ripples. *Geophys. Res. Lett.* 45(21): 11,837-11,846. <https://dx.doi.org/10.1029/2018gl079858>
59. David, H.; Laza-Martínez, A.; Kromkamp, J.; Orive, E. (2018). Physiological response of *Prorocentrum lima* (Dinophyceae) to varying light intensities. *FEMS Microbiol. Ecol.* 94(1): fix166. <https://doi.org/10.1093/femsec/fix166>
60. de Bakker, D.M.; Webb, A.E.; van den Bogaart, L.A.; van Heuven, S.M.A.C.; Meesters, E.H.; van Duyl, F.C. (2018). Quantification of chemical and mechanical bioerosion rates of six Caribbean excavating sponge species found on the coral reefs of Curaçao. *PLoS One* 13(5): e0197824. <https://dx.doi.org/10.1371/journal.pone.0197824>
61. de Bar, M.W.; Stolwijk, D.J.; McManus, J.F.; Sinninghe Damsté, J.S.; Schouten, S. (2018). A Late Quaternary climate record based on long-chain diol proxies from the Chilean margin. *Clim. Past* 14(11): 1783-1803. <https://doi.org/10.5194/cp-14-1783-2018>
62. De Corte, D.; Srivastava, A.; Koski, M.; Garcia, J.A.L.; Takaki, Y.; Yokokawa, T.; Elisabeth, N.H.; Nunoura, T.; Sintes, E.; Herndl, G.J. (2018). Metagenomic insights into zooplankton-associated bacterial communities. *Environ. Microbiol.* 20(2): 492-505. <https://dx.doi.org/10.1111/1462-2920.13944>
63. de Fouw, J.; van der Heide, T.; van Belzen, J.; Govers, L.; Cheikh, M.A.S.; Olff, H.; van de Koppel, J.; van Gils, J.A. (2018). A facultative mutualistic feedback enhances the stability of tropical intertidal seagrass beds. *NPG Scientific Reports* 8(1): 10. <https://doi.org/10.1038/s41598-018-31060-x>
64. de Jong, M.F.; Oltmanns, M.; Karstensen, J.; de Steur, L. (2018). Deep convection in the Irminger Sea observed with a Dense Mooring Array. *Oceanography* 31(1): 50-59. <https://dx.doi.org/10.5670/oceanog.2018.109>
65. de Jong, M.F.; Søiland, H.; Bower, A.S.; Furey, H. (2018). The subsurface circulation of the Iceland Sea observed with RAFOS floats. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 141: 1-10. <https://doi.org/10.1016/j.dsr.2018.07.008>
66. De Vet, P.L.M.; Van Prooijen, B.C.; Schrijvershof, R.A.; van der Werf, J.J.; Ysebaert, T.J.W.; Schrijver, M.C.; Wang, Z.B. (2018). The importance of combined tidal and meteorological forces for the flow and sediment transport on intertidal shoals. *Journal of Geophysical Research-arth Surface* 123(10): 2464-2480. <https://doi.org/10.1029/2018jf004605>

67. Dearing Crampton-Flood, E.; Peterse, F; Munsterman, D.; Sinninghe Damsté, J.S. (2018). Using tetraether lipids archived in North Sea Basin sediments to extract North Western European Pliocene continental air temperatures. *Earth Planet. Sci. Lett.* 490: 193-205.
<https://dx.doi.org/10.1016/j.epsl.2018.03.030>
68. Dedysh, S.N.; Sinninghe Damsté, J.S. (2018). Acidobacteria. *Encycl. Life Sci. (Online)* January 2018.
<https://dx.doi.org/10.1002/9780470015902.a0027685>
69. Dessandier, P.-A.; Bonnin, J.; Malaizéa, B.; Lambert, C.; Tjallingii, R.; Warden, L.; Sinninghe Damsté, J.S.; Kim, J.-H (2018). Variations in benthic foraminiferal assemblages in the Tagus mud belt during the last 5700 years: Implications for Tagus River discharge. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 496: 225-237.
<https://doi.org/10.1016/j.palaeo.2018.01.040>
70. Dijkhuizen, L.W.; Brouwer, P.; Bolhuis, H.; Reichart, G.-J.; Koppers, N.; Huettel, B.; Bolger, A.M.; Li, F.-W.; Cheng, S.; Liu, X.; Wong, G.K.-S.; Pryer, K.; Weber, A.; Bräutigam, A.; Schlüemann, H. (2018). Is there foul play in the leaf pocket? The metagenome of floating fern *Azolla* reveals endophytes that do not fix N₂ but may denitrify. *New Phytol.* 217(1): 453-466.
<https://dx.doi.org/10.1111/nph.14843>
71. Dijkstra, N.; Kraal, P.; Séguert, M.J.M. ; Flores, M.R.; Gonzalez, S.; Rijkenberg, M.J.A.; Slomp, C.P. (2018). Phosphorus dynamics in and below the redoxcline in the Black Sea and implications for phosphorus burial. *Geochim. Cosmochim. Acta* 222: 685-703.
<https://dx.doi.org/10.1016/j.gca.2017.11.016>
72. Dilmahamod, A. F.; Aguiar-González, B.; Penven, P.; Reason, C.J.C.; de Ruijter, W. P. M.; Malan, N.; Hermes, C.J. (2018). SIDDIES Corridor: A major East-West pathway of long-lived surface and subsurface eddies crossing the subtropical South Indian Ocean. *Journal of Geophysical Research-Oceans* 123(8): 5406-5425.
<https://doi.org/10.1029/2018JC013828>
73. Donders, T.H.; van Helmond, N.A.G.M.; Verreussel, R.; Munsterman, D.; ten Veen, J.; Speijer, R.P.; Weijers, J.W.H.; Sangiorgi, F.; Peterse, F.; Reichart, G.-J.; Sininghe Damsté, J.S.; Lourens, L.; Kuhlmann, G.; Brinkhuis, H. (2018). Land-sea coupling of early Pleistocene glacial cycles in the southern North Sea exhibit dominant Northern Hemisphere forcing. *Clim. Past* 14(3): 397-411.
<https://doi.org/10.5194/cp-14-397-2018>
74. Dorschel, B.; Jensen, L.; Arndt, J. E.; Brummer, G.-J.; de Haas, H.; Fielies, A.; Franke, D.; Jokat, W.; Krocker, R.; Kroon, D.; Pätzold, J.; Schneider, R.R.; Spieß, V.; Stollhofen, H.; Uenzelmann-Neben, G.; Watkeys, M.; Wiles, E. (2018). The Southwest Indian Ocean bathymetric compilation (swIOBC). *Geochem. Geophys. Geosyst.* 19(3): 968-976.
<https://dx.doi.org/10.1002/2017gc007274>
75. Dulaquais, G.; Waeles, M.; Gerringsa, L.J.A.; Middag, R.; Rijkenberg, M.J.A.; Riso, R. (2018). The biogeochemistry of electroactive humic substances and its connection to iron chemistry in the North East Atlantic and the western Mediterranean Sea. *Journal of Geophysical Research-Oceans* 123(8): 5481-5499.
<https://dx.doi.org/10.1029/2018jc014211>
76. Egea, L.G.; Jiménez-Ramos, R.; Hernández, I.; Bouma, T.J.; Brun, F.G. (2018). Effects of ocean acidification and hydrodynamic conditions on carbon metabolism and dissolved organic carbon (DOC) fluxes in seagrass populations. *PLoS One* 13(2): e0192402 .
<https://doi.org/10.1371/journal.pone.0192402>



77. El-Hacen, E.-H.M.; Bouma, T.J.; Fivash, G.S.; Sall, A.A.; Piersma, T.; Olff, H.; Govers, L. (2018). Evidence for ‘critical slowing down’ in seagrass: a stress gradient experiment at the southern limit of its range. *NPG Scientific Reports* 8(1): 17263.
<https://doi.org/10.1038/s41598-018-34977-5>
78. Engelen, A.H.; Aires, T.; Vermeij, M.J.A.; Herndl, G.J.; Serrão, E.A.; Frade, P.R. (2018). Host differentiation and compartmentalization of microbial communities in the azooxanthellate cupcorals *Tubastrea coccinea* and *Rhizopsammia goesi* in the Caribbean. *Front. Mar. Sci.* 5: 391.
<https://dx.doi.org/10.3389/fmars.2018.00391>
79. Feis, M.E.; John, U.; Lokmer, A.; Luttikhuijen, P.C.; Wegner, K.M. (2018). Dual transcriptomics reveals co-evolutionary mechanisms of intestinal parasite infections in blue mussels *Mytilus edulis*. *Mol. Ecol.* 27(6): 1505-1519.
<https://doi.org/10.1111/mec.14541>
80. Fowler, A.M.; Jørgensen, A.-M.; Svendsen, J.C.; Macreadie, P.I.; Jones, D.O.B.; Boon, A.; Booth, D.J.; Brabant, R.; Callahan, E.; Claisse, J.T.; Dahlgren, T.G.; Degraer, S.; Dokken, Q.R.; Gill, A.B.; Johns, D.G.; Leewis, R.J.; Lindeboom, H.J.; Lindén, O.; May, R.; Murk, A.J.; Ottersen, G.; Schroeder, D.M.; Shastri, S.M.; Teilmann, J.; Todd, V.; Van Hoey, G.; Vanaverbeke, J.; Coolen, J.W.P. (2018). Environmental benefits of leaving offshore infrastructure in the ocean. *Front. Ecol. Environ.* 16(10): 571-578.
<https://dx.doi.org/10.1002/fee.1827>
81. Frederikse, T.; Gerkema, T. (2018). Multi-decadal variability in seasonal mean sea level along the North Sea coast. *Ocean Sci.* 14(6): 1491-1501.
<https://dx.doi.org/10.5194/os-14-1491-2018>
82. Freeman, S.E.; Freeman, L.A.; Giorli, G.; Haas, A.F. (2018). Photosynthesis by marine algae produces sound, contributing to the daytime soundscape on coral reefs. *PLoS One* 13(10): e0201766.
<https://dx.doi.org/10.1371/journal.pone.0201766>
83. Frieling, J.; Reichart, G.-J.; Middelburg, J.J.; Röhl, U.; Westerhold, T.; Bohaty, S.M.; Sluijs, A. (2018). Tropical Atlantic climate and ecosystem regime shifts during the Paleocene–Eocene Thermal Maximum. *Clim. Past* 14(1): 39-55.
<https://dx.doi.org/10.5194/cp-14-39-2018>
84. Geerken, E.; de Nooijer, L.J.; van Dijk, I.; Reichart, G.-J. (2018). Impact of salinity on element incorporation in two benthic foraminiferal species with contrasting magnesium contents. *Biogeosciences* 15(7): 2205-2218.
<https://doi.org/10.5194/bg-15-2205-2018>
85. Goedknecht, M.A.; Thieltges, D.W.; van der Meer, J.; Wegner, K.M.; Luttikhuijen, P.C. (2018). Cryptic invasion of a parasitic copepod: Compromised identification when morphologically similar invaders co-occur in invaded ecosystems. *PLoS One* 13(3): e0193354.
<https://doi.org/10.1371/journal.pone.0193354>
86. Goedknecht, M.A.; Bedolfe; Drent, J.; van der Meer, J.; Thieltges, D.W. (2018). Impact of the invasive parasitic copepod *Mytilicola orientalis* on native blue mussels *Mytilus edulis* in the western European Wadden Sea. *Mar. Biol. Res.* 14(5): 497-507.
<https://dx.doi.org/10.1080/17451000.2018.1442579>
87. Goedknecht, M.A.; Shoesmith, D.; Jung, A.; Luttikhuijen, P.C.; van der Meer, J.; Philippart, C.J.M.; van der Veer, H.W.; Thieltges, D.W. (2018). Trophic relationship between the invasive parasitic copepod *Mytilicola orientalis* and its native blue mussel (*Mytilus edulis*) host. *Parasitology* 145(6): 814-821.
<https://dx.doi.org/10.1017/s0031182017001779>

88. Gommer, R.; Bom, R.A.; Fijen, T.P.M.; van Gils, J.A. (2018). Stomach fullness shapes prey choice decisions in crab plovers (*Dromas ardeola*). *PLoS One* 13(4): e0194824.
<https://dx.doi.org/10.1371/journal.pone.0194824>
89. Glock, N.; Erdem, Z.; Wallmann, K.; Somes, C.J.; Liebetrau, V.; Schönfeld, J.; Gorb, S.; Eisenhauer, A. (2018). Coupling of oceanic carbon and nitrogen facilitates spatially resolved quantitative reconstruction of nitrate inventories. *Nature Comm.* 9(1): 10 pp.
<https://doi.org/10.1038/s41467-018-03647-5>
90. Granger, R.; Meadows, M.E.; Hahn, A.; Zabel, M.; Stuut, J-B W.; Herrmann, N.; Schefuß, E. (2018). Late-Holocene dynamics of sea-surface temperature and terrestrial hydrology in southwestern Africa. *Holocene* 28(5): 695-705.
<https://dx.doi.org/10.1177/0959683617744259>
91. Grothe, A.; Sangiorgi, F.; Brinkhuis, H.; Stoica, M.; Krijgsman, W. (2018). Migration of the dinoflagellate *Galeacysta etrusca* and its implications for the Messinian Salinity Crisis. *Newsl. Stratigr.* 51(1): 73-91.
<https://doi.org/10.1127/nos/2016/0340>
92. Guerrero-Cruz, S.; Cremers, G.; van Alen, T.A.; Op den Camp, H.J.M.; Jetten, M.S.M.; Rasigraf, O.; Vaksmaa, A. (2018). Response of the anaerobic methanotroph “*Candidatus Methanoperedens nitroreducens*” to oxygen stress. *Appl. Environ. Microbiol.* 84(24).
<https://dx.doi.org/10.1128/aem.01832-18>
93. Guerrero-Feijóo, E.; Sintes, E.; Herndl, G.J.; Varela, M.M. (2018). High dark inorganic carbon fixation rates by specific microbial groups in the Atlantic off the Galician coast (NW Iberian margin). *Environ. Microbiol.* 20(2): 602-611.
<https://dx.doi.org/10.1111/1462-2920.13984>
94. Hartman, J.D.; Sangiorgi, F.; Salabarnada, A.; Peterse, F; Houben, A.J.P.; Schouten, S.; Brinkhuis, H.; Escutia, C.; Bijl, P.K. (2018). Paleoceanography and ice sheet variability offshore Wilkes Land, Antarctica – Part 3: Insights from Oligocene–Miocene TEX₈₆-based sea surface temperature reconstructions. *Clim. Past* 14(9): 1275-1297.
<https://doi.org/10.5194/cp-14-1275-2018>
95. Hedayatkhah, A.; Cretoiu, M.S.; Emtiazi, G.; Stal, L.J.; Bolhuis, H. (2018). Bioremediation of chromium contaminated water by diatoms with concomitant lipid accumulation for biofuel production. *J. Environ. Manage.* 227: 313-320.
<https://doi.org/10.1016/j.jenvman.2018.09.011>
96. Heimhofer, U.; Wucherpfennig, N.; Adatte, T.; Schouten, S.; Schneebeli-Hermann, E.; Gardin, S.; Keller, G.; Kentsch, S.; Kujau, A. (2018). Vegetation response to exceptional global warmth during Oceanic Anoxic Event 2. *Nature Comm.* 9: 3832.
<https://doi.org/10.1038/s41467-018-06319-6>
97. Heinzelmann, S.M.; Villanueva, L.; Lipsewers, Y.A.; Sinke-Schoen, D.; Sinnighe Damsté, J.S.; Schouten, S.; Van der Meer, M.T.J. (2018). Assessing the metabolism of sedimentary microbial communities using the hydrogen isotopic composition of fatty acids. *Org. Geochem.* 124: 123-132.
<https://doi.org/10.1016/j.orggeochem.2018.07.011>
98. Hennekam, R.; Zinke, J.; van Sebille, E.; ten Have, M.; Brummer, G.-J. A.; Reichart, G.-J. (2018). Cocos (Keeling) corals reveal 200 years of multidecadal modulation of southeast Indian Ocean hydrology by Indonesian throughflow. *Paleoceanography and Paleoclimatology* 33: 48-60.
<https://doi.org/10.1002/2017PA003181>

99. Hermans, T.H.J.; van der Wal, W.; Broerse (2018). Reversal of the direction of horizontal velocities induced by GIA as a function of mantle viscosity. *Geophys. Res. Lett.* 45(18): 9597-9604.
<https://dx.doi.org/10.1029/2018gl078533>
100. Hoeksema, B.W.; Hassell, D.; Meesters, E.H.W.G.; van Duyl, F.C. (2018). Wave-swept coral-liths of Saba Bank, Dutch Caribbean. *Mar. Biodiv.* 48(4): 2003-2016.
<https://dx.doi.org/10.1007/s12526-017-0712-5>
101. Hopwood, M.J.; Carroll, D.; Browning, T. J.; Meire, L.; Mortensen, J.; Krisch, S.; Achterberg, E.P. (2018). Non-linear response of summertime marine productivity to increased meltwater discharge around Greenland. *Nature Comm.* 9(1): 3256.
<https://doi.org/10.1038/s41467-018-05488-8>
102. Hörlein, C.; Confurius-Guns, V.; Stal, L.J.; Bolhuis, H. (2018). Daily rhythmicity in coastal microbial mats. *npj Biofilms and Microbiomes* 4: 11.
<https://doi.org/10.1038/s41522-018-0054-5>
103. Hu, Z.; van der Wal, D.; Cai, H.; van Belzen, J.; Bouma, T.J. (2018). Dynamic equilibrium behaviour observed on two contrasting tidal flats from daily monitoring of bed-level changes. *Geomorphology (Amst.)* 311: 114-126.
<https://hdl.handle.net/10.1016/j.geomorph.2018.03.025>
104. Howison, R.A.; Piersma, T.; Kentie, R.; Hooijmeijer, C.E.W.; Olff, H. (2018). Quantifying landscape-level land-use intensity patterns through radar-based remote sensing. *J. Appl. Ecol.* 55(3): 1276-1287.
<https://dx.doi.org/10.1111/1365-2664.13077>
105. Hughes, D.J.; Campbell, D.A.; Doblin, M.A.; Kromkamp, J.C.; Lawrenz, E.; Moore, C.M.; Oxborough, K.; Prášil, O.; Ralph, P.J.; Alvarez, M.F.; Suggett, D.J. (2018). Roadmaps and detours: active chlorophyll-*a* assessments of primary productivity across marine and freshwater systems. *Environ. Sci. Technol.* 52(21): 12039-12054.
<https://doi.org/10.1021/acs.est.8b03488>
106. Husson, B.; Sarrazin, J.; van Oevelen, D.; Sarradin, P.-M.; Soetaert, K.; Menesguen, A. (2018). Modelling the interactions of the hydrothermal mussel *Bathymodiolus azoricus* with vent fluid. *Ecol. Model.* 377: 35-50.
<https://doi.org/10.1016/j.ecolmodel.2018.03.007>
107. Ismail, A.; Ktari, L.; Ahmed, M.; Bolhuis, H.; Bouhaouala-Zahar, B.; Stal, L.J.; Boudabbous, A.; El Bour, M. (2018). Heterotrophic bacteria associated with the green alga *Ulva rigida*: identification and antimicrobial potential. *J. Appl. Phycol.* 30(5): 2883-2899.
<https://doi.org/10.1007/s10811-018-1454-x>
108. Ivancic, I.; Paliaga, P.; Pfannkuchen, M.; Djakovac, T.; Najdek, M.; Steiner, P.; Korlevic, M.; Markovski, M.; Baricevic, A.; Tankovic, M.S.; Herndl, G. (2018). Seasonal variations in extracellular enzymatic activity in marine snow-associated microbial communities and their impact on the surrounding water. *FEMS Microbiol. Ecol.* 94(12): 11.
<https://doi.org/10.1093/femsec/fiy198>
109. Jaeschke, A.; Rethemeyer, J.; Lappé, M.; Schouten, S.; Boeckx, P.; Schefuß, E. (2018). Influence of land use on distribution of soil *n*-alkane δD and brGDGTs along an altitudinal transect in Ethiopia: Implications for (paleo)environmental studies. *Org. Geochem.* 124: 77-87.
<https://doi.org/10.1016/j.orggeochem.2018.06.006>
110. Jaspers, C.; Huwer, B.; Antajan, E.; Hosia, A.; Hinrichsen, H.-H.; Biastoch, A.; Angel, D.; Assmus, R.; Augustin, C.; Bagheri, S.; Beggs, S.E.; Balsby, T.J.S.; Boersma, M.; Bonnet, D.; Chris-

- tensen, J.T.; Dänhardt, A.; Delpy, F.; Falkenhaug, T.; Finenko, G.; Fleming, N.E.C.; Fuentes, V.; Galil, B.; Gittenberger, A.; Griffin, D.C.; Haslob, H.; Javidpour, J.; Kamburska, L.; Kube, S.; Langenberg, V.T.; Lehtiniemi, M.; Lombard, F.; Malzahn, A.; Marambio, M.; Mihneva, V.; Møller, L.F.; Niermann, U.; Okyar, M.I.; Özdemir, Z.B.; Pitois, S.; Reusch, T.B.H.; Robbens, J.; Stefanova, K.; Thibault, D.; van der Veer, H.W.; Vansteenbrugge, L.; van Walraven, L.; Wozniczka, A. (2018). Ocean current connectivity propelling the secondary spread of a marine invasive comb jelly across western Eurasia. *Glob. Ecol. Biogeogr.* 27(7): 814-827.
<https://doi.org/10.1111/geb.12742>
111. Jouta, J.; de Goeij, P.; Lok, T.; Velilla, E.; Camphuysen, C.J.; Leopold, M.; van der Veer, H.W.; Olff, H.; Overdijk, O.; Piersma, T. (2018). Unexpected dietary preferences of Eurasian Spoonbills in the Dutch Wadden Sea: spoonbills mainly feed on small fish not shrimp. *J. Ornithol.* 159(3): 839-849.
<https://doi.org/10.1007/s10336-018-1551-2>
112. Karagicheva, J.; Rakhimberdiev, E.; Saveliev, A.; Piersma, T. (2018). Annual chronotypes functionally link life histories and life cycles in birds. *Funct. Ecol.* 32(10): 2369-2379.
<https://doi.org/10.1111/1365-2435.13181>
113. Kazanidis, G.; van Oevelen, D.; Veuger, B.; Witte, U.F.M. (2018). Unravelling the versatile feeding and metabolic strategies of the cold-water ecosystem engineer *Spongisorites coralliphaga* (Stephens, 1915). *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 141: 71-82.
<https://doi.org/10.1016/j.dsr.2018.07.009>
114. Kellner, S.; Spang, A.; Offre, P.; Szöllosi; Petitjean, C.; Williams, T.A. (2018). Genome size evolution in the Archaea. *Emerging Topics in Life Sciences* 2(4): ETLS20180021.
<https://dx.doi.org/10.1042/etls20180021>
115. KM3Net collaboration, (van Haren, H) (2018). Characterisation of the Hamamatsu photo-multipliers for the KM3NeT Neutrino Telescope. *J. Instrum.* 13(05): P05035-P05035.
<https://dx.doi.org/10.1088/1748-0221/13/05/p05035>
116. Kentie, R.; Coulson, T.; Hooijmeijer, J.C.E.W. ; Howison, R.A.; Loonstra, A.H.J.; Verhoeven, M.A.; Both, C.; Piersma, T. (2018). Warming springs and habitat alteration interact to impact timing of breeding and population dynamics in a migratory bird. *Glob. Chang. Biol.* 24(11): 5292-5303.
<https://doi.org/10.1111/gcb.14406>
117. Keogan, K.; Daunt, F.; Wanless, S.; Phillips, R.A.; Walling, C.A.; Agnew, P.; Ainley, D.G.; Anker-Nilssen, T.; Ballard, G.; Barrett, R.T.; Barton, K.J.; Bech, C.; Becker, P.H.; Berglund, P.-A.; Bollache, L.; Bond, A.L.; Bouwhuis, S.; Bradley, R.W.; Burr, Z.M.; Camphuysen, C.J.; Catry, P.; Chiaradia, A.; Christensen-Dalsgaard, S.; Cuthbert, R.; Dehnhard, N.; Déscamps, S.; Diamond, T.; Divoky, G.; Drummond, H.; Dugger, K.M.; Dunn, M.J.; Emmerson, L.; Erikstad, K.E.; Fort, J.; Fraser, W.R.; Genovart, M.; Gilg, O.; González-Solis, J.; Granadeiro, J.P.; Gremillet, D.; Hansen, J.; Hanssen, S.A.; Harris, M.; Hedd, A.; Hinke, J.; Igual, J.M.; Jahncke, J.; Jones, I.; Kappes, P.J.; Lang, J.; Langset, M.; Lescroël, A.; Lorentsen, S.-H.; Lyver, P.O.; Mallory, M.; Moe, B.; Montevecchi, W.A.; Monticelli, D.; Mostello, C.; Newell, M.; Nicholson, L.; Nisbet, I.; Olsson, O.; Oro, D.; Pattison, V.; Poisbleau, M.; Pyk, T.; Quintana, F.; Ramos, J.A.; Ramos, R.; Reiertsen, T.K.; Rodríguez, C.; Ryan, P.; Sanz-Aguilar, A.; Schmidt, N.M.; Shannon, P.; Sittler, B.; Southwell, C.; Surman, C.; Svagelj, W.S.; Trivelpiece, W.Z.; Warzybok, P.; Watanuki, Y.; Weimerskirch, H.; Wilson, P.R.; Wood, A.G.; Phillimore, A.B.; Lewis, S. (2018). Global phenological insensitivity to shifting ocean temperatures among seabirds. *Nat. Clim. Chang.* 8(4): 313-318.
<https://hdl.handle.net/10.1038/s41558-018-0115-z>



118. Krawczyk, D.W.; Meire, L.; Lopes, C.; Juul-Pedersen, T.; Mortensen, J.; Li, C.L.; Krogh, T. (2018). Seasonal succession, distribution, and diversity of planktonic protists in relation to hydrography of the Godthåbsfjord system (SW Greenland). *Polar Biol.* 41: 2033-2052.
<https://hdl.handle.net/10.1007/s00300-018-2343-0>
119. Koho; LeKieffre, C.; Nomaki, H.; Salonen, I.; Geslin, E.; Mabilleau, G.; Søgaard Jensen, L.H.; Reichart, G.-J. (2018). Changes in ultrastructural features of the foraminifera *Ammonia* spp. in response to anoxic conditions: Field and laboratory observations. *Mar. Micropaleontol.* 138: 72-82.
<https://dx.doi.org/10.1016/j.marmicro.2017.10.011>
120. Lai, S.; Loke, L.H.L.; Bouma, T.J.; Todd, P.A. (2018). Biodiversity surveys and stable isotope analyses reveal key differences in intertidal assemblages between tropical seawalls and rocky shores. *Mar. Ecol. Prog. Ser.* 587: 41-53.
<https://doi.org/10.3354/meps12409>
121. Lai, S.; Yakuub, S.M.; Poh, T.S.M.; Bouma, T.J.; Todd, P.A. (2018). Unlikely nomads: settlement, establishment, and dislodgement processes of vegetative seagrass fragments. *Front. Plant Sci.* 9: 160.
<https://doi.org/10.3389/fpls.2018.00160>
122. Lattaud, J.; Lo, L.; Huang, J.-J.; Chou, Y.-M.; Gorbarenko, S.A.; Sinninghe Damsté, J.S.; Schouten, S. (2018). A comparison of Late Quaternary organic proxy-based paleotemperature records of the Central Sea of Okhotsk. *Paleoceanography and Paleoclimatology* 33(7): 732-744.
<https://dx.doi.org/10.1029/2018pa003388>
123. Lattaud, J.; Kirkels, F.; Peterse, F.; Freymond, C.V.; Eglinton, T.I.; Hefter, J.; Mollenhauer, G.; Balzano, S.; Villanueva, L.; van der Meer, M.T.J.; Hopmans, E.C.; Sinninghe Damsté, J.S.; Schouten, S. (2018). Long-chain diols in rivers: distribution and potential biological sources. *Biogeosciences* 15(13): 4147-4161.
<https://doi.org/10.5194/bg-15-4147-2018>
124. Lee, D.-H.; Kim, J.-H.; Lee, Y.M.; Stadnitskaia, A.; Jin, Y.K.; Niemann, H.; Kim, Y.-G.; Shin, K.-H. (2018). Biogeochemical evidence of anaerobic methane oxidation on active submarine mud volcanoes on the continental slope of the Canadian Beaufort Sea. *Biogeosciences* 15(24): 7419-7433.
<https://doi.org/10.5194/bg-15-7419-2018>
125. Lei, W.; Masero, J.A.; Piersma, T.; Zhu, B.; Yang, H.-Y.; Zhang, Z. (2018). Alternative habitat: the importance of the Nanpu Saltponds for migratory waterbirds in the Chinese Yellow Sea. *Bird. Cons. Intern.* 28(4): 549-566.
<https://doi.org/10.1017/s0959270917000508>
126. Lessin, G.; Artioli, Y.; Almroth-Rosell, E.; Blackford, J.C.; Dale, A. W.; Glud, R.N.; Middelburg, J.J.; Pastres, R.; Queirós, A.M.; Rabouille, C.; Regnier, P.; Soetaert, K.; Solidoro, C.; Stephens, N.; Yakushev, E. (2018). Modelling marine sediment biogeochemistry: current knowledge gaps, challenges, and some methodological advice for advancement. *Front. Mar. Sci.* 5: 19.
<https://doi.org/10.3389/fmars.2018.00019>
127. Lipka, M.; Woelfel, J.; Gogina, M.; Kallmeyer, J.; Liu, B.; Morys, C.; Forster, S.; Böttcher, M.E. (2018). Solute reservoirs reflect variability of early diagenetic processes in temperate brackish surface sediments. *Front. Mar. Sci.* 5: 413.
<https://hdl.handle.net/10.3389/fmars.2018.00413>
128. Lipsewers, Y.A.; Hopmans, E.C.; Sinninghe Damsté, J.S.; Villanueva, L. (2018). Potential recycling of thaumarchaeotal lipids by DPANN Archaea in seasonally hypoxic surface marine

- sediments. *Org. Geochem.* 119: 101-109.
<https://dx.doi.org/10.1016/j.orggeochem.2017.12.007>
129. Lisovski, S.; Schmaljohann, H.; Bridge, E.S.; Bauer, S.; Farnsworth, A.; Gauthreaux, S.A.; Hahn, S.; Hallworth, M.T.; Hewson, C.M.; Kelly, J.F.; Liechti, F.; Marra, P.P.; Rakhamberdiev, E.; Ross, J.D.; Seavy, N.E.; Sumner, M.D.; Taylor, C.M.; Winkler, D.W.; Wotherspoon, S.J.; Wunder, M.B. (2018). Inherent limits of light-level geolocation may lead to over-interpretation. *Curr. Biol.* 28(3): R99-R100.
<https://doi.org/10.1016/j.cub.2017.11.072>
130. Liu, Y.; Osinski, T.; Wang, F.; Krupovic, M.; Schouten, S.; Kasson, P.; Prangishvili, D.; Egelman, E.H. (2018). Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. *Nature Comm.* 9(1): 3360.
<https://doi.org/10.1038/s41467-018-05684-6>
131. Lo, L.; Belt, S.T.; Lattaud, J.; Friedrich, T.; Zeeden, C.; Schouten, S.; Smik, L.; Timmermann, A.; Cabedo-Sanz, P.; Huang, J.-J.; Zhou, L.; Ou, T.-H.; Chang, Y.-P.; Wang, L.-C.; Chou, Y.-M.; Shen, C.-C.; Chen, M.-T.; Wei, K.-Y.; Song, S.-R.; Fang, T.-H.; Gorbarenko, S.A.; Wang, W.-L.; Lee, T.-Q.; Elderfield, H.; Hodell, D.A. (2018). Precession and atmospheric CO₂ modulated variability of sea ice in the central Okhotsk Sea since 130,000 years ago. *Earth Planet. Sci. Lett.* 488: 36-45.
<https://doi.org/10.1016/j.epsl.2018.02.005>
132. Loonstra, A.H.J.; Verhoeven, M.A.; Piersma, T. (2018). Sex-specific growth in chicks of the sexually dimorphic Black-tailed Godwit. *Ibis* 160(1): 89-100.
<https://dx.doi.org/10.1111/ibi.12541>
133. Lubsch, A.; Timmermans, K. (2018). Uptake kinetics and storage capacity of dissolved inorganic phosphorus and corresponding N:P dynamics in *Ulva lactuca* (Chlorophyta). *J. Phycol.* 54(2): 215-223.
<https://dx.doi.org/10.4121/uuid:8b5f7d71-27f3-4b92-b599-2cb3ac76d0aa>
134. Luttikhuizen, P.C.; van den Heuvel, F.H.M.; Rebours, C.; Witte, H.J.; van Bleijswijk, J.D.L.; Timmermans, K. (2018). Strong population structure but no equilibrium yet: Genetic connectivity and phylogeography in the kelp *Saccharina latissima* (Laminariales, Phaeophyta). *Ecol. Evol.* 8(8): 4265-4277.
<https://doi.org/10.1002/ece3.3968>
135. Luttikhuizen, P.C. (2018). Teaching evolution using a card game: negative frequency-dependent selection. *J. Biol. Educ.* 52(2): 122-129.
<https://dx.doi.org/10.1080/00219266.2017.1420677>
136. Ma, Z.; Ysebaert, T.; van der Wal, D.; Herman, P.M.J. (2018). Conditional effects of tides and waves on short-term marsh sedimentation dynamics. *Earth Surf. Process. Landforms* 43(10): 2243-2255.
<https://doi.org/10.1002/esp.4357>
137. Markus-Michalczyk, H.; Michalczyk, C. (2018). "Make me a willow cabin at your gate": Legislation and implementation of tidal forest restoration at estuarine upstream sites. *Est., Coast. and Shelf Sci.* 210: 1-6.
<https://doi.org/10.1016/j.ecss.2018.06.004>
138. Marquez-Ferrando, R.; Remisiewicz, M.; Masero, J.A.; Kentie, R.; Senner, N.; Verhoeven, M.A.; Hooijmeijer, C.E.W.; Pardal, S.; Sarasa, M.; Piersma, T.; Figuerola, J. (2018). Primary moult of continental Black-tailed Godwits *Limosa limosa limosa* in the Doñana wetlands, Spain. *Bird Study* 56(1): 132-139.
<https://doi.org/10.1080/00063657.2018.1443055>



139. Martijn, J.; Vosseberg, J.; Guy, L.; Offre, P.; Ettema, T.J. G. (2018). Deep mitochondrial origin outside the sampled alphaproteobacteria. *Nature (Lond.)* 557(7703): 101-105.
<https://doi.org/10.1038/s41586-018-0059-5>
140. Mathot, K.J.; Frankenhuys, W.E. (2018). Models of pace-of-life syndromes (POLS): a systematic review. *Behav. Ecol. Sociobiol.* 72(3): 41.
<https://doi.org/10.1007/s00265-018-2459-9>
141. Mestdagh, S.; Bagaço, L.; Braeckman, U.; Ysebaert, T.; De Smet, B.; Moens, T.; Van Colen, C. (2018). Functional trait responses to sediment deposition reduce macrofauna-mediated ecosystem functioning in an estuarine mudflat. *Biogeosciences* 15(9): 2587-2599.
<https://doi.org/10.5194/bg-15-2587-2018>
142. Mezger, E.M.; de Nooijer, L.J.; Siccha, M.; Brummer, G.-J. A.; Kucera, M.; Reichart, G.-J. (2018). Taphonomic and ontogenetic effects on Na/Ca and Mg/Ca in spinose planktonic foraminifera from the Red Sea. *Geochem. Geophys. Geosyst.* 19(11): 4174-4194.
<https://dx.doi.org/10.1029/2018gc007852>
143. Middag, R.; van Heuven, S.M.A.C.; Bruland, K.W.; de Baar, H.J.W. (2018). The relationship between cadmium and phosphate in the Atlantic Ocean unravelled. *Earth Planet. Sci. Lett.* 492: 79-88.
<https://doi.org/10.1016/j.epsl.2018.03.046>
144. Moerdijk-Poortvliet, T.C.W.; Beauchard, O.; Stal, L.J.; Boschker, H.T.S. (2018). Production and consumption of extracellular polymeric substances in an intertidal diatom mat. *Mar. Ecol. Prog. Ser.* 592: 77-95.
<https://hdl.handle.net/10.3354/meps12481>
145. Mortensen, J.; Rysgaard, S.; Arendt, K.E.; Søgaard, D. H. ; Bendtsen, J.; Meire, L. (2018). Local coastal water masses control heat levels in a west Greenland tidewater outlet glacier fjord. *Journal of Geophysical Research-Oceans* 123(11): 8068-8083.
<https://doi.org/10.1029/2018JC014549>
146. Mullineaux, L.S.; Metaxas, A.; Beaulieu, S.E.; Bright, M.; Gollner, S.; Grupe, B.M.; Herrera, S.; Kellner, J.B.; Levin, L.A.; Mitarai, S.; Neubert, M.G.; Thurnherr, A.M.; Tunnicliffe, V.; Watanabe, H.K.; Won, Y.-J. (2018). Exploring the ecology of deep-sea hydrothermal vents in a metacommunity framework. *Front. Mar. Sci.* 5: 49.
<https://doi.org/10.3389/fmars.2018.00049>
147. Nakajima, R.; Haas, A.F.; Silveira, C.B.; Kelly, E.L.A.; Smith, J.E.; Sandin, S.; Kelly, L.W.; Rohrher, F.; Nakatomi, N.; Kurihara, H. (2018). Release of dissolved and particulate organic matter by the soft coral *Lobophytum* and subsequent microbial degradation. *J. Exp. Mar. Biol. Ecol.* 504: 53-60.
<https://dx.doi.org/10.1016/j.jembe.2018.02.008>
148. Narrowe, A.B.; Spang, A.; Stairs, C.W.; Caceres, E.F.; Baker, B.J.; Miller, C.S.; Ettema, T.J.G. (2018). Complex evolutionary history of translation elongation factor 2 and diphthamide biosynthesis in archaea and parabasalids. *Genome Biology and Evolution* 10(9): 2380-2393.
<https://doi.org/10.1093/gbe/evy154>
149. Nausch, M.; Achterberg, E.P.; Bach, L.T.; Brussaard, C.P.D.; Crawfurd, K.J.; Fabian, J.; Riebesell, U.; Stuhr, A.; Unger, J.; Wannicke, N. (2018). Concentrations and uptake of dissolved organic phosphorus compounds in the Baltic Sea. *Front. Mar. Sci.* 5: 386.
<https://doi.org/10.3389/fmars.2018.00386>
150. Neves, V.; Silva, D.; Martinho, F.; Antunes, C.; Ramos, S.; Freitas, V. (2018). Assessing the effects of internal and external acoustic tagging methods on European flounder *Platichthys flesus*. *Fish. Res.* 206: 202-208.

<https://doi.org/10.1016/j.fishres.2018.05.015>

151. Ní Fhlaithearta, S.; Fontanier, C.; Jorissen, F.; Mouret, A.; Dueñas-Bohórquez, A.; Anschutz, P.; Fricker, M.B.; Günther, D.; de Lange, G.J.; Reichart, G.-J. (2018). Manganese incorporation in living (stained) benthic foraminiferal shells: a bathymetric and in-sediment study in the Gulf of Lions (NW Mediterranean). *Biogeosciences* 15(20): 6315-6328.
<https://doi.org/10.5194/bg-15-6315-2018>
152. Nierop, K.G.J.; Brouwer, P.; Dekker, R.; Schluemann, H.; Reichart, G.-J. (2018). ω 20-Hydroxy and ω 9, ω 10-dihydroxy biomarker lipids in ferns from the Salviniaceae family. *Org. Geochem.* 125: 229-242.
<https://doi.org/10.1016/j.orggeochem.2018.09.014>
153. Nieuwhof, S.; van Belzen, J.; Oteman, B.; van de Koppel, J.; Herman, P.M.J.; van der Wal, D. (2018). Shellfish reefs increase water storage capacity on intertidal flats over extensive spatial scales. *Ecosystems* 21(2): 360-372.
<https://hdl.handle.net/10.1007/s10021-017-0153-9>
154. Noor, L.H.W.; van der Kroef, D.A.; Wattam, D.; Pinnock, M.; van Rossum, R.; Smit, M.G.; Brussaard, C.P.D. (2018). Innovative transportable laboratories for polar science. *Polar Rec.* 54(1): 18-28.
<https://doi.org/10.1017/S0032247418000050>
155. Ørberg, S.B.; Krause-Jensen, D.; Meire, L.; Sejr, M.K. (2018). Subtidal benthic recruitment in a sub-arctic glacial fjord system: Temporal and spatial variability and potential drivers. *Polar Biol.* 41(12): 2627-2634.
<https://doi.org/10.1007/s00300-018-2390-6>
156. Oudman, T.; Piersma, T.; Ahmedou Salem, M.V.; Feis, M.E.; Dekkinga, A.; Holthuijsen, S.; ten Horn, J.; van Gils, J.A.; Bijleveld, A.I. (2018). Resource landscapes explain contrasting patterns of aggregation and site fidelity by red knots at two wintering sites. *Movement Ecology* 6(24).
<https://doi.org/10.1186/s40462-018-0142-4>
157. Panassa, E.; Santana-Casiano, J.M.; González-Dávila, M.; Hoppema, M.; van Heuven, S.M.A.C.; Völker, C.; Wolf-Gladrow, D.; Hauck, J. (2018). Variability of nutrients and carbon dioxide in the Antarctic Intermediate Water between 1990 and 2014. *Ocean Dynamics* 68(3): 295-308.
<https://doi.org/10.1007/s10236-018-1131-2>
158. Perry, C.T.; Alvarez-Filip, L.; Graham, N.A.J.; Mumby, P.J.; Wilson, S.K.; Kench, P.S.; Manzello, D.P.; Morgan, K.M.; Slangen, A.B.A.; Thomson, D.P.; Januchowski-Hartley, F.; Smithers, S.G.; Steneck, R.S.; Carlton, R.; Edinger, E.; Enochs, I.C.; Estrada-Saldívar, N.; Haywood, M.D.E.; Kolodziej, G.; Murphy, G.N.; Pérez-Cervantes, E.; Suchley, A.; Valentino, L.; Boenish, R.; Wilson, M.; Macdonald, C. (2018). Loss of coral reef growth capacity to track future increases in sea level. *Nature (Lond.)* 558(7710): 396-400.
<https://doi.org/10.1038/s41586-018-0194-z>
159. Petersen, J.; Barras, C.; Bézos, A.; La, C.; de Nooijer, L.; Meysman, F.J.R.; Mouret, A.; Slomp, C.P.; Jorissen, F.J. (2018). Mn/Ca intra- and inter-test variability in the benthic foraminifer *Ammonia tepida*. *Biogeosciences* 15(1): 331-348.
<https://doi.org/10.5194/bg-15-331-2018>
160. Piedade, G.; Wesdorp, E.; Montenegro-Borbolla, E.; Maat, D.; Brussaard, C. (2018).



- Influence of Irradiance and Temperature on the Virus MpoV-45T Infecting the Arctic Pico-phytoplankter *Micromonas polaris*. *Viruses* 10(12): 676.
<https://doi.org/10.3390/v10120676>
161. Pozzato, L.; Rassmann, J.; Lansard, B.; Dumoulin, J.-P.; van Breugel, P.; Rabouille, C. (2018). Origin of remineralized organic matter in sediments from the Rhone River prodelta (NW Mediterranean) traced by $\Delta^{14}\text{C}$ and $\delta^{13}\text{C}$ signatures of pore water DIC. *Prog. Oceanogr.* 163: 112-122.
<https://dx.doi.org/10.1016/j.pocean.2017.05.008>
 162. Préat, N.; De Troch, M.; van Leeuwen, S.; Taelman, S.E.; De Meester, S.; Allais, F.; Dewulf, J. (2018). Development of potential yield loss indicators to assess the effect of seaweed farming on fish landings. *Algal Research* 35: 194-205.
<https://hdl.handle.net/10.1016/j.algal.2018.08.030>
 163. Raina, J.-B.; Eme, L.; Pollock, F.J.; Spang, A.; Archibald, J.M.; Williams, T.A. (2018). Symbiosis in the microbial world: from ecology to genome evolution. *Biology Open* 7(2): bio032524.
<https://doi.org/10.1242/bio.032524>
 164. Rakhamberdiev, E.; Duijns, S.; Karagicheva, J.; Camphuysen, C.J.; VRS Castricum; Dekkinga, A.; Dekker, R.; Gavrilov, A.; ten Horn, J.; Jukema, J.; Saveliev, A.; Soloviev, M.Y.; Tibbitts, T.L.; van Gils, J.A.; Piersma, T. (2018). Fuelling conditions at staging sites can mitigate Arctic warming effects in a migratory bird. *Nature Comm.* 9: 4263.
<https://dx.doi.org/10.1038/s41467-018-06673-5>
 165. Reiche, S.; Rampen, S.W.; Dorhout, D.J.C.; Sinninghe Damsté, J.S.; Schouten, S. (2018). The impact of oxygen exposure on long-chain alkyl diols and the long chain diol index (LDI) – a long-term incubation study. *Org. Geochem.* 124: 238-246.
<https://doi.org/10.1016/j.orggeochem.2018.08.003>
 166. Renz, J.R.; Powilleit, M.; Gogina, M.; Zettler, M.L.; Morys, C.; Forster, S. (2018). Community bioirrigation potential (BIP_c), an index to quantify the potential for solute exchange at the sediment-water interface. *Mar. Environ. Res.* 141: 214-224.
<https://doi.org/10.1016/j.marenvres.2018.09.013>
 167. Rijkenberg, M.J.A.; Slagter, H.A.; Rutgers van der Loeff, M.; van Ooijen, J.; Gerringa, L.J.A. (2018). Dissolved Fe in the deep and upper Arctic Ocean with a focus on Fe limitation in the Nansen Basin. *Front. Mar. Sci.* 5: 88.
<https://dx.doi.org/10.3389/fmars.2018.00088>
 168. Rix, L.; de Goeij, J.M.; Van Oevelen, D.; Struck, U.; Al-Horani, F.A.; Wild, C.; Naumann, M.S. (2018). Reef sponges facilitate the transfer of coral-derived organic matter to their associated fauna via the sponge loop. *Mar. Ecol. Prog. Ser.* 589: 85-96.
<https://doi.org/10.3354/meps12443>
 169. Roach, T.N.F.; Salamon, P.; Nulton, J.; Andresen, B.; Felts, B.; Haas, A.; Calhoun, S.; Robinett, N.; Rohwer, F. (2018). Application of finite-time and control thermodynamics to biological processes at multiple scales. *Journal of Non-Equilibrium Thermodynamics* 43(3): 193-210.
<https://dx.doi.org/10.1515/jnet-2018-0008>
 170. Roberts, E.M.; Mienis, F.; Rapp, H.T.; Hanz, U.; Meyer, H.K.; Davies, A.J. (2018). Oceanographic setting and short-timescale environmental variability at an Arctic seamount sponge ground. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 138: 98-113.
<https://doi.org/10.1016/j.dsr.2018.06.007>
 171. Rochman, F.; Kim, J.-J.; Rijpstra, W.I.C.; Sinninghe Damsté, J.S.; Schumann, P.; Verbeke, T.J.; Dunfield, P.F. (2018). *Oleiharenicola alkalitolerans* gen. nov., sp. nov., a new member of the phylum *Verrucomicrobia* isolated from an oilsands tailings pond. *Int. J. Syst. Evol. Micro-*

biol. 68(4): 1078-1084.

<https://dx.doi.org/10.1099/ijsem.0.002624>

172. Rolison, J.M.; Sterling, C.H.; Middag, R.; Gault-Ringold, M.; George, E.; Rijkenberg, M.J.A. (2018). Iron isotope fractionation during pyrite formation in a sulfidic Precambrian ocean analogue. *Earth Planet. Sci. Lett.* 488: 1-13.
<https://doi.org/10.1016/j.epsl.2018.02.006>
173. Romera-Castillo, C.; Pinto, M.; Langer, T.M.; Alvarez-Salgado, X.A.; Herndl, G. (2018). Dissolved organic carbon leaching from plastics stimulates microbial activity in the ocean. *Nature Comm.* 9(1): 7 pp.
<https://hdl.handle.net/10.1038/s41467-018-03798-5>
174. Rosati, G.; Heimbürger, L.E.; Melaku Canu, D.; Lagane, C.; Laffont, L.; Rijkenberg, M.J.A.; Gerringsa, L.J.A.; Solidoro, C.; Gencarelli, C.N.; Hedgecock, I.M.; de Baar, H.J.W.; Sonke, J.E. (2018). Mercury in the Black Sea: new insights from measurements and numerical modeling. *Global Biogeochem. Cycles* 32(4): 529-550.
<https://dx.doi.org/10.1002/2017gb005700>
175. Rusiecka, D.; Gledhill, M.; Milne, A.; Achterberg, E.P.; Annett, A.L.; Atkinson, S.; Birchill, A.; Karstensen, J.; Lohan, M.; Mariez, C.; Middag, R.; Rolison, J.M.; Tanhua, T.; Ussher, S.; Connelly, D. (2018). Anthropogenic signatures of lead in the Northeast Atlantic. *Geophys. Res. Lett.* 45(6): 2734-2743.
<https://doi.org/10.1002/2017GL076825>
176. Russell, J.M.; Hopmans, E.C.; Loomis, S.E.; Liang, J.; Sinninghe Damsté, J.S. (2018). Distributions of 5- and 6-methyl branched glycerol dialkyl glycerol tetraethers (brGDGTs) in East African lake sediment: Effects of temperature, pH, and new lacustrine paleotemperature calibrations. *Org. Geochem.* 117: 56-69.
<https://dx.doi.org/10.1016/j.orggeochem.2017.12.003>
177. Ruthrauff, D.R.; Dekkinga, A.; Gill, R.E.; Piersma, T. (2018). Energetic solutions of Rock Sandpipers to harsh winter conditions rely on prey quality. *Ibis* 160(2): 397-412.
<https://dx.doi.org/10.1111/ibi.12534>
178. Salabarnada, A.; Escutia, C.; Röhl, U.; Nelson, C.H.; McKay, R.; Jiménez-Espejo, F.J.; Bijl, P.K.; Hartman, J.D.; Strother, S.L.; Salzmann, U.; Evangelinos, D.; López-Quirós, A.; Flores, J.A.; Sangiorgi, F.; Ikehara, M.; Brinkhuis, H. (2018). Paleoceanography and ice sheet variability offshore Wilkes Land, Antarctica - Part 1: Insights from late Oligocene astronomically paced contourite sedimentation. *Clim. Past* 14(7): 991-1014.
<https://doi.org/10.5194/cp-14-991-2018>
179. Salvador de Paiva, J.N.; Walles, B.; Ysebaert, T.; Bouma, T.J. (2018). Understanding the conditionality of ecosystem services: The effect of tidal flat morphology and oyster reef characteristics on sediment stabilization by oyster reefs. *Ecol. Eng.* 112: 89-95.
<https://doi.org/10.1016/j.ecoleng.2017.12.020>
180. Sangiorgi, F.; Bijl, P.K.; Passchier, S.; Salzmann, U.; Schouten, S.; McKay, R.M.; Cody, R.D.; Pross, J.; van de Flierdt, T.; Bohaty, S.M.; Levy, R.; Williams, T.; Escutia, C.; Brinkhuis, H. (2018). Southern Ocean warming and Wilkes Land ice sheet retreat during the mid-Miocene. *Nature Comm.* 9(1): 317.
<https://dx.doi.org/10.1038/s41467-017-02609-7>
181. Schilder, J.; van Roij, L.; Reichart, G.-J.; Sluijs, A.; Heiri, O. (2018). Variability in $\delta^{13}\text{C}$ values between individual *Daphnia* ephippia: Implications for palaeo-studies. *Quat. Sci. Rev.* 189: 127-133.
<https://doi.org/10.1016/j.quascirev.2018.04.007>
182. Schlitzer, R.; Anderson, R.F.; Dodas, E.M.; Lohan, M.; Geibert, W.; Tagliabue, A.; Bowie, A.;



Jeandel, C.; Maldonado, M.T.; Landing, W.M.; Cockwell, D.; Abadie, C.; Abouchami, W.; Achterberg, E.P.; Agather, A.; Aguliar-Islas, A.; van Aken, H.M.; Andersen, M.; Archer, C.; Auro, M.; de Baar, H.J.; Baars, O.; Baker, A.R.; Bakker, K.; Basak, C.; Baskaran, M.; Bates, N.R.; Bauch, D.; van Beek, P.; Behrens, M.K.; Black, E.; Bluhm, K.; Bopp, L.; Bouman, H.; Bowman, K.; Bown, J.; Boyd, P.; Boye, M.; Boyle, E.A.; Branellec, P.; Bridgestock, L.; Brissebrat, G.; Browning, T.; Bruland, K.W.; Brumsack, H.-J.; Brzezinski, M.; Buck, C.S.; Buck, K.N.; Buesseler, K.; Bull, A.; Butler, E.; Cai, P.; CáMara Mor, P.; Cardinal, D.; Carlson, C.; Carrasco, G.; Casacuberta, N.; Casciotti, K.L.; Castrillejo, M.; Chamizo, E.; Chance, R.; Charette, M.A.; Chaves, J.E.; Cheng, H.; Chever, F.; Christl, M.; Church, T.M.; Closset, I.; Colman, A.; Conway, T.M.; Cossa, D.; Croot, P.; Cullen, J.T.; Cutter, G.A.; Daniels, C.; Dehairs, F.; Deng, F.; Dieu, H.T.; Duggan, B.; Dulaquais, G.; Dumousseaud, C.; Echegoyen-Sanz, Y.; Edwards, R.L.; Ellwood, M.; Fahrbach, E.; Fitzsimmons, J.N.; Flegal, A.R.; Fleisher, M.Q.; van de Flierdt, T.; Frank, M.; Friedrich, J.; Fripiat, F.; Fröllje, H.; Galer, S.J.G.; Gamo, T.; Ganeshram, R.S.; Garcia-Orellana, J.; Garcia-Solsona, E.; Gault-Ringold, M.; George, E.; Gerringsa, L.J.A.; Gilbert, M.; Godoy, J.M.; Goldstein, S.L.; Gonzalez, S.R.; Grissom, K.; Hammerschmidt, C.; Hartman, A.; Hassler, C.S.; Hathorne, E.C.; Hatta, M.; Hawco, N.; Hayes, C.T.; Heimbürguer, L.-E.; Helgoe, J.; Heller, M.; Henderson, G.M.; Henderson, P.B.; van Heuven, S.; Ho, P.; Horner, T.J.; Hsieh, Y.; Huang, K.; Humphreys, M.P.; Isshiki, K.; Jacquot, J.; Janssen, D.; Jenkins, W.J.; John, S.; Jones, E.M.; Jones, J.L.; Kadko, D.C.; Kayser, R.; Kenna, T.C.; Khondoker, R.; Kim, T.; Kipp, L.; Klar, J.K.; Klunder, M.; Kretschmer, S.; Kumamoto, Y.; Laan, P.; Labatut, M.; Lacan, F.; Lam, P.J.; Lambelet, M.; Lamborg, C.H.; Le Moigne, F.A.C.; Le Roy, E.; Lechtenfeld, O.J.; Lee, J.; Lherminier, P.; Little, S.; López-Lora, M.; Lu, Y.; Masqué, P.; Mawji, E.; McClain, C.R.; Measures, C.; Mehic, S.; Menzel Barraquetak, J.-L.; van der Merwe, P.; Middag, R.; Mieruch, S.; Milne, A.; Minami, T.; Moffett, J.W.; Moncoiffe, G.; Moore, W.S.; Morris, P.J.; Morton, P.L.; Nakaguchi, Y.; Nakayama, N.; Niedermiller, J.; Nishioka, J.; Nishiuchi, A.; Noble, A.; Obata, H.; Ober, S.; Ohnemus, D.C.; van Ooijen, J.; O'Sullivan (2018). The GEOTRACES Intermediate Data Product 2017. *Chem. Geol.* 493: 210-223.

<https://doi.org/10.1016/j.chemgeo.2018.05.040>

183. Schmaltz, L.E.; Jelle Loonstra, A.H.; Wymenga, E.; Hobson, K.A.; Piersma, T. (2018). Quantifying the non-breeding provenance of staging Ruffs, *Philomachus pugnax*, using stable isotope analysis of different tissues. *J. Ornithol.* 159(1): 191-203.
<https://dx.doi.org/10.1007/s10336-017-1488-x>
184. Schreuder, L.T.; Stuut, J.-B. W.; Korte, L.F.; Sinninghe Damsté, J.S.; Schouten, S. (2018). Aeolian transport and deposition of plant wax n-alkanes across the tropical North Atlantic Ocean. *Org. Geochem.* 115: 113-123.
<https://doi.org/10.1016/j.orggeochem.2017.10.010>
185. Schreuder, L.T.; Hopmans, E.C.; Stuut, J.-B.W.; Sininghe Damsté, J.S.; Schouten, S. (2018). Transport and deposition of the fire biomarker levoglucosan across the tropical North Atlantic Ocean. *Geochim. Cosmochim. Acta* 227: 171-185.
<https://doi.org/10.1016/j.gca.2018.02.020>
186. Schulz, K.; Gerkema, T. (2018). An inversion of the estuarine circulation by sluice water discharge and its impact on suspended sediment transport. *Est., Coast. and Shelf Sci.* 200: 31-40.
<https://doi.org/10.1016/j.ecss.2017.09.031>
187. Schwarz, C.; Gourgue, O.; van Belzen, J.; Zhu, Z.; Bouma, T.J.; van de Koppel, J.; Ruessink, G.; Claude, N.; Temmerman, S. (2018). Self-organization of a biogeomorphic landscape controlled by plant life-history traits. *Nature Geoscience* 11(7).
<https://doi.org/10.1038/s41561-018-0180-y>



188. Senner, N.R.; Stager, M; Verhoeven, M.A.; Cheviron, Z.A.; Piersma, T.; Boutsen, W. (2018). High-altitude shorebird migration in the absence of topographical barriers: avoiding high air temperatures and searching for profitable winds. *Proc. - Royal Soc., Biol. Sci.* 285(1881): 20180569.
<https://dx.doi.org/10.1098/rspb.2018.0569>
189. Sinninghe Damsté, J.S.; Rijpstra, W.I.C.; Foesel, B.U.; Huber, K.J.; Overmann, J.; Nakagawa, S.; Kim, J.J.; Dunfield, P.F.; Dedysh, S.N.; Villanueva, L. (2018). An overview of the occurrence of ether- and ester-linked *iso*-diabolic acid membrane lipids in microbial cultures of the Acidobacteria: Implications for brGDGT paleoproxies for temperature and pH. *Org. Geochem.* 124: 63-76.
<https://doi.org/10.1016/j.orggeochem.2018.07.006>
190. Sinninghe Damsté, J.S.; Rijpstra, W.I.C.; Hopmans, E.C.; den Uijl, M.J.; Weijers, J.W.H.; Schouten, S. (2018). The enigmatic structure of the crenarchaeol isomer. *Org. Geochem.* 124: 22-28.
<https://dx.doi.org/10.1016/j.orggeochem.2018.06.005>
191. Sluijs, A.; van Roij, L.; Frieling, J.; Laks, J.; Reichart, G.-J. (2018). Single-species dinoflagellate cyst carbon isotope ecology across the Paleocene-Eocene Thermal Maximum. *Geology (Boulder Colo.)* 46(1): 79-82.
<https://doi.org/10.1130/G39598.1>
192. Snelgrove, P.V.R.; Soetaert, K.; Solan, M.; Thrush, S.; Wei, C.L.; Danovaro, R.; Kitazato, H.; Ingole, B.; Norkko, A.; Parkes, R.J.; Volkenborn, N. (2018). Global carbon cycling on a heterogeneous seafloor. *Trends Ecol. Evol.* 33(2): 96-105.
<https://doi.org/10.1016/j.tree.2017.11.004>
193. Soissons, L.M.; Haanstra, E.P.; van Katwijk, M.M.; Asmus, R.; Auby, I.; Barillé, L.; Brun, F.G.; Cardoso, P.G.; Desroy, N.; Fournier, J.; Ganthy, F.; Garmendia, J.M.; Godet, L.; Grilo, T.F.; Kadel, P.; Ondiviela, B.; Peralta, G.; Puente, A.; Recio, M.; Rigouin, L.; Valle, M.; Herman, P.M.J.; Bouma, T.J. (2018). Latitudinal Patterns in European Seagrass Carbon Reserves: Influence of Seasonal Fluctuations versus Short-Term Stress and Disturbance Events. *Front. Plant Sci.* 9: 88.
<https://doi.org/10.3389/fpls.2018.00088>
194. Soissons, L.M.; van Katwijk, M.M.; Peralta, G.; Brun, F.G.; Cardoso, P.G.; Grilo, T.F.; Ondiviela, B.; Recio, M.; Valle, M.; Garmendia, J.M.; Ganthy, F.; Auby, I.; Rigouin, L.; Godet, L.; Fournier, J.; Desroy, N.; Barillé, L.; Kadel, P.; Asmus, R.; Herman, P.M.J.; Bouma, T.J. (2018). Seasonal and latitudinal variation in seagrass mechanical traits across Europe: The influence of local nutrient status and morphometric plasticity. *Limnol. Oceanogr.* 63(1): 37–46.
<https://dx.doi.org/10.1002/lno.10611>
195. Sorokin, D.Y.; Merkel, A.Y.; Abbas, B.; Makarova, K.S.; Rijpstra, W.I.C.; Koenen, M.; Sininghe Damsté, J.S.; Galinski, E.A.; Koonin, E.V.; van Loosdrecht, M.C.M. (2018). *Methanonatronarchaeum thermophilum* gen. nov., sp. nov. and ‘*Candidatus Methanohalarchaeum thermophilum*’, extremely halo(natrono)philic methyl-reducing methanogens from hypersaline lakes comprising a new euryarchaeal class *Methanonatronarchaeia* classis nov. *Int. J. Syst. Evol. Microbiol.* 68(7): 2199-2208.
<https://doi.org/10.1099/ijsem.0.002810>
196. Sorokin, D.Y.; Khijniak, T.V.; Kostrikina, N.A.; Elcheninov, A.G.; Toshchakov, S.V.; Bale, N.J.; Sininghe Damsté, J.S.; Kublanov, I.V. (2018). *Natronobiforma cellulositropha* gen. nov., sp. nov., a novel haloalkaliphilic member of the family *Natrialbaceae* (class *Halobacteria*) from hypersaline alkaline lakes. *Syst. Appl. Microbiol.* 41(4): 355-362.
<https://dx.doi.org/10.1016/j.syapm.2018.04.002>



197. Steinle, L.; Knittel, K.; Felber, N.; Casalino, C.; de Lange, G.; Tessarolo, C.; Stadnitskaia, A.; Sinninghe Damsté, J.S.; Zopfi, J.; Lehmann, M.F.; Treude, T.; Niemann, H. (2018). Life on the edge: active microbial communities in the Kryos MgCl₂-brine basin at very low water activity. *ISME J.* 12(6): 1414-1426.
<https://dx.doi.org/10.1038/s41396-018-0107-z>
198. Stocchi, P.; Vacchi, M.; Lorscheid, T.; de Boer, B.; Simms, A.R.; van de Wal, R.S.W.; Vermeersen, B.L.A.; Pappalardo, M.; Rovere, A. (2018). MIS 5e relative sea-level changes in the Mediterranean Sea: Contribution of isostatic disequilibrium. *Quat. Sci. Rev.* 185: 122-134.
<https://doi.org/10.1016/j.quascirev.2018.01.004>
199. Stratmann, T.; Lins, L.; Purser, A.; Marcon, Y.; Rodrigues, C.F.; Ravara, A.; Cunha, M.R.; Simon-Lledó, E.; Jones, D.O.B.; Sweetman, A.K.; Köser, K.; Van Oevelen, D. (2018). Abyssal plain faunal carbon flows remain depressed 26 years after a simulated deep-sea mining disturbance. *Biogeosciences* 15(13): 4131-4145.
<https://doi.org/10.5194/bg-15-4131-2018>
200. Stratmann, T.; Mevenkamp, L.; Sweetman, A.K.; Vanreusel, A.; van Oevelen, D. (2018). Has phytodetritus processing by an abyssal soft-sediment community recovered 26 years after an experimental disturbance? *Front. Mar. Sci.* 5: 59.
<https://dx.doi.org/10.3389/fmars.2018.00059>
201. Stratmann, T.; Voorsmit, I.; Gebruk, A.; Brown, A.; Purser, A.; Marcon, Y.; Sweetman, A.K.; Jones, D.O.B.; van Oevelen, D. (2018). Recovery of Holothuroidea population density, community composition, and respiration activity after a deep-sea disturbance experiment. *Limnol. Oceanogr.* 63(5): 2140-2153.
<https://doi.org/10.1002/lno.10929>
202. Sukekava, C.; Downes, J.; Slagter, H.A.; Gerringsa, L.J.A.; Laglera, L.M. (2018). Determination of the contribution of humic substances to iron complexation in seawater by catalytic cathodic stripping voltammetry. *Talanta* 189: 359-364.
<https://dx.doi.org/10.1016/j.talanta.2018.07.021>
203. Sulu-Gambari, F.; Hagens, M.; Behrends, T.; Seitaj, D.; Meysman, F.J.R.; Middelburg, J.; Slomp, C.P. (2018). Phosphorus cycling and burial in sediments of a seasonally hypoxic marine basin. *Est. Coast.* 41(4): 921-939.
<https://dx.doi.org/10.1007/s12237-017-0324-0>
204. Suykerbuyk, W.; Govers, L.; van Oven, W.G.; Giesen, K.; Giesen, W.B.J.T.; de Jong, D.J.; Bouma, T.J.; van Katwijk, M.M. (2018). Living in the intertidal: desiccation and shading reduce seagrass growth, but high salinity or population of origin have no additional effect. *PeerJ* 6: e5234.
<https://dx.doi.org/10.7717/peerj.5234>
205. Taillardat, P.; Willemsen, P.; Marchand, C.; Friess, D.A.; Widory, D.; Baudron, P.; Truong, V.V.; Nguyễn, T.-N.; Ziegler, A.D. (2018). Assessing the contribution of porewater discharge in carbon export and CO₂ evasion in a mangrove tidal creek (Can Gio, Vietnam). *J. Hydrol. (Amst.)* 563: 303-318.
<https://doi.org/10.1016/j.jhydrol.2018.05.042>.
<https://hdl.handle.net/10.1016/j.jhydrol.2018.05.042>
206. Tan, K.; Choi, C.-Y.; Peng, H.; Melville, D.S.; Ma, Z. (2018). Migration departure strategies of shorebirds at a final pre-breeding stopover site. *Avian Research* 9(15).
<https://dx.doi.org/10.1186/s40657-018-0108-7>
207. Tarakanov, R.Y.; Morozov, E.G.; van Haren, H.; Makarenko, N.I.; Demidova, T.A. (2018). Structure of the deep spillway in the western part of the Romanche fracture zone. *Journal of Geophysical Research-Oceans* 123(11): 8508-8531.
<https://doi.org/10.1029/2018jc013961>

208. Taramelli, A.; Valentini, E.; Cornacchia, L.; Monbaliu, J.; Sabbe, K. (2018). Indications of dynamic effects on scaling relationships between channel sinuosity and vegetation patch size across a salt marsh platform. *Journal of Geophysical Research-Earth Surface* 123(10): 2714-2731.
<https://hdl.handle.net/10.1029/2017jf004540>
209. Tarya, A.; Hoitink, A.J.F.; van der Vegt, M.; van Katwijk, M.M.; Hoeksema, B.W.; Bouma, T.J.; Lamers, L.P. M.; Christianen, M.J.A. (2018). Exposure of coastal ecosystems to river plume spreading across a near-equatorial continental shelf. *Cont. Shelf Res.* 153: 1-15.
<https://dx.doi.org/10.1016/j.csr.2017.12.003>
210. Taylor, B.; Weitz, J.; Brussaard, C.; Fischer, M. (2018). Quantitative infection dynamics of *Cafeteria roenbergensis* virus. *Viruses* 10(9): 468.
<https://doi.org/10.3390/v10090468>
211. Timmers, P.H.A.; Vavourakis, C.D.; Kleerebezem, R.; Sinninghe Damsté, J.S.; Muyzer, G.; Stams, A.J.M.; Sorokin, D.Y.; Plugge, C.M. (2018). Metabolism and occurrence of methanogenic and sulfate-reducing syntrophic acetate oxidizing communities in haloalkaline environments. *Front. Microbiol.* 9(3039).
<https://dx.doi.org/10.3389/fmicb.2018.03039>
212. Ulfsbo, A.; Jones, E.M.; Casacuberta, N.; Korhonen, M.; Rabe, B.; Karcher, M.; van Heuven, S.M.A.C. (2018). Rapid changes in anthropogenic carbon storage and ocean acidification in the intermediate layers of the Eurasian Arctic Ocean: 1996-2015. *Global Biogeochem. Cycles* 32(9): 1254-1275.
<https://doi.org/10.1029/2017GB005738>
213. Valk, O.; Rutgers van der Loeff, M.M.; Geibert, W.; Gdaniec, S.; Rijkenberg, M.J.A.; Moran, S.B.; Lepore, K.; Edwards, R.L.; Lu, Y.; Puigcorbé, V. (2018). Importance of hydrothermal vents in scavenging removal of ^{230}Th in the Nansen Basin. *Geophys. Res. Lett.* 45(19): 10,539-10,548.
<https://doi.org/10.1029/2018GL079829>
214. van Bemmelen, R.S.A.; Clarke, R.H.; Pyle, P.; Camphuysen, C.J. (2018). Timing and duration of primary molt in Northern Hemisphere skuas and jaegers. *The Auk* 135(4): 1043-1054.
<https://doi.org/10.1642/AUK-17-232.1>
215. van Bree, L.G.J.; Islam, M.M.; Rijpstra, W.I.C.; Verschuren, D.; van Duin, A.T.C.; Sinninghe Damste, J.S.; de Leeuw, J.W. (2018). Origin, formation and environmental significance of des-A-arborenes in the sediments of an East African crater lake. *Org. Geochem.* 125: 95-108.
<https://doi.org/10.1016/j.orggeochem.2018.09.001>
216. van Bree, L.G.J.; Peterse, F.; van der Meer, M.T.J.; Middelburg, J.J.; Negash, A.M.D.; De Crop, W.; Cocquyt, C.; Wieringa, J.J.; Verschuren, D.; Sininghe Damsté, J.S. (2018). Seasonal variability in the abundance and stable carbon-isotopic composition of lipid biomarkers in suspended particulate matter from a stratified equatorial lake (Lake Chala, Kenya/Tanzania): Implications for the sedimentary record. *Quat. Sci. Rev.* 192: 208-224.
<https://doi.org/10.1016/j.quascirev.2018.05.023>
217. van de Poll, W.H.; Kulk, G.; Rozema, P.D.; Brussaard, C.P.D.; Visser, R.J.W.; Buma, A.G.J. (2018). Contrasting glacial meltwater effects on post-bloom phytoplankton on temporal and spatial scales in Kongsfjorden, Spitsbergen. *Elem. Sci. Anth.* 6(1): 50.
<https://doi.org/10.1525/elementa.307>
218. van der Does, M.; Pourmand, A.; Sharifi, A.; Stuut, J.-B.W. (2018). North African mineral dust across the tropical Atlantic Ocean: Insights from dust particle size, radiogenic Sr-Nd-Hf isotopes and rare earth elements (REE). *Aeolian Research* 33: 106-116.
<https://dx.doi.org/10.1016/j.aeolia.2018.06.001>

219. van der Does, M.; Knippertz, P.; Zschenderlein, P.; Harrison, G.R.; Stuut, J.-B.W. (2018). The mysterious long-range transport of giant mineral dust particles. *Science Advances* 4(12): eaau2768.
<https://doi.org/10.1126/sciadv.aau2768>
220. van der Jagt, H.; Friese, C.; Stuut, J-B W.; Fischer, G.; Iversen, M.H. (2018). The ballasting effect of Saharan dust deposition on aggregate dynamics and carbon export: Aggregation, settling, and scavenging potential of marine snow. *Limnol. Oceanogr.* 63(3): 1386-1394.
<https://dx.doi.org/10.1002/lno.10779>
221. van der Molen, J.; Ruardij, P.; Mooney, K.; Kerrison, P.; O'Connor, N.E.; Gorman, E.; Timmermans, K.; Wright, S.; Kelly, M.; Hughes, A.D.; Capuzzo (2018). Modelling potential production of macroalgae farms in UK and Dutch coastal waters. *Biogeosciences* 15(4): 1123-1147.
<https://dx.doi.org/10.5194/bg-15-1123-2018>
222. van der Molen, J.; García-García; Whomersley, P.; Callaway, A.; Posen, P.E.; Hyder, K. (2018). Connectivity of larval stages of sedentary marine communities between hard substrates and offshore structures in the North Sea. *NPG Scientific Reports* 8: 14772.
<https://dx.doi.org/10.1038/s41598-018-32912-2>
223. van der Reijden, K.J.; Hintzen, N.T.; Govers, L.L.; Rijnsdorp, A.D.; Olff, H. (2018). North Sea demersal fisheries prefer specific benthic habitats. *PLoS One* 13(12): e0208338.
<https://doi.org/10.1371/journal.pone.0208338>
224. van der Veer, H.W.; Cardoso, J.F.M.F.; Mateo, I.; Witte, J.IJ.; van Duyl, F.C. (2018). Occurrence and life history characteristics of tropical flatfishes at the coral reefs of Curaçao, Dutch Caribbean. *J. Sea Res.* 142: 157-166.
<https://dx.doi.org/10.1016/j.seares.2018.09.010>
225. van der Woerd, H.J.; Wernand, M.R. (2018). Hue-Angle product for low to medium spatial resolution optical satellite sensors. *Remote Sens.* 10(2): 180.
<https://doi.org/10.3390/rs10020180>
226. van Dijk, J.; Ziegler, M.; de Nooijer, L.J.; Reichart, G.-J.; Xuan, C.; Ducassou, E.; Bernasconi, S.M.; Lourens, L.J. (2018). A saltier glacial mediterranean outflow. *Paleoceanography and Paleoclimatology* 33(2): 179-197.
<https://dx.doi.org/10.1002/2017pa003228>
227. van Duyl, F.C.; Mueller, B.; Meesters, E.H. (2018). Spatio-temporal variation in stable isotope signatures ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) of sponges on the Saba Bank. *PeerJ* 6: e5460.
<https://doi.org/10.7717/peerj.5460>
228. van Haren, H. (2018). Abyssal plain hills and internal wave turbulence. *Biogeosciences* 15(14): 4387-4403.
<https://doi.org/10.5194/bg-15-4387-2018>
229. van Haren, H. (2018). Philosophy and application of high-resolution temperature sensors for stratified waters. *Sensors* 18(10): 3184.
<https://doi.org/10.3390/s18103184>
230. van Haren, H. (2018). Grand challenges in physical oceanography. *Front. Mar. Sci.* 5: 404.
<https://dx.doi.org/10.3389/fmars.2018.00404>
231. van Heuven, S.M.A.C.; Webb, A.E.; de Bakker, D.M.; Meesters, E.; van Duyl, F.C.; Reichart, G.-J.; de Nooijer, L.J. (2018). In-situ incubation of a coral patch for community-scale assessment of metabolic and chemical processes on a reef slope. *PeerJ* 6: e5966.
<https://dx.doi.org/10.7717/peerj.5966>

232. van Loon, W.M.G.M.; Walvoort, D.J.J.; Van Hoey, G.; Vina-Herbon, C.; Blandon, A.; Pesch, R.; Schmitt, P.; Scholle, J.; Heyer, K.; Lavaleye, M.S.S.; Phillips, G.; Duineveld, G.C.A.; Blomqvist, M. (2018). A regional benthic fauna assessment method for the Southern North Sea using Margalef diversity and reference value modelling. *Ecol. Indic.* 89: 667-679.
<https://hdl.handle.net/10.1016/j.ecolind.2017.09.029>
233. Van Oevelen, D.; Mueller, C.E.; Lundälv, T.; van Duyl, F.C.; de Goeij, J.M.; Middelburg, J.J. (2018). Niche overlap between a cold-water coral and an associated sponge for isotopically-enriched particulate food sources. *PLoS One* 13(3): e0194659.
<https://dx.doi.org/10.1371/journal.pone.0194659>
234. van Oevelen, D.; Duineveld, G.; Lavaleye, M.S.S.; Kutti, T.; Soetaert, K. (2018). Trophic structure of cold-water coral communities revealed from the analysis of tissue isotopes and fatty acid composition. *Mar. Biol. Res.* 14(3): 287-306.
<https://doi.org/10.1080/17451000.2017.1398404>
235. van Westen, R.M.; Dijkstra, H.A.; Klees, R.; Riva, R.E.M.; Slobbe, D.C.; van der Boog, C.G.; Katsman, C.A.; Candy, A.S.; Pietrzak, J.D.; Zijlema, M.; James, R.K.; Bouma, T.J. (2018). Mechanisms of the 40-70 day variability in the Yucatan Channel volume transport. *Journal of Geophysical Research-Oceans* 123(2): 1286-1300.
<https://doi.org/10.1002/2017JC013580>
236. Vandieken, V.; Marshall, I.P.G.; Niemann, H.; Engelen, B.; Cypionka, H. (2018). *Labilibaculum manganireducens* gen. nov., sp. nov. and *Labilibaculum filiforme* sp. nov., Novel Bacteroidetes Isolated from Subsurface Sediments of the Baltic Sea. *Front. Microbiol.* 8: 2614.
<https://dx.doi.org/10.3389/fmicb.2017.02614>
237. Vasquez Cardenas, D.; Meire, L.; Sørensen, H.L.; Glud, R.N.; Meysman, F.J.R.; Boschker, H.T.S. (2018). Bacterial chemoautotrophic reoxidation in sub-Arctic sediments: a seasonal study in Kobbefjord, Greenland. *Mar. Ecol. Prog. Ser.* 601: 33-39.
<https://doi.org/10.3354/meps12669>
238. Verhoeven, M.A.; Loonstra, A.H.J.; Hooijmeijer, J.C.E.W.; Masero, J.A.; Piersma, T.; Senner, N.R. (2018). Generational shift in spring staging site use by a long-distance migratory bird. *Biol. Lett.* 14(2): 20170663.
<https://dx.doi.org/10.1098/rsbl.2017.0663>
239. Vermeersen, B.L.A.; Slangen, A.B.A.; Gerkema, T.; Baart, F.; Cohen, K.M.; Dangendorf, S.; Duran-Matute, M.; Frederikse, T.; Grinsted, A.; Hijma, M.P.; Jevrejeva, S.; Kiden, P.; Kleinherenbrink, M.; Meijles, E.W.; Palmer, M.D.; Rietbroek, R.; Riva, R.E.M.; Schulz, E.; Slobbe, D.C.; Simpson, M.J.R.; Sterlini, P.; Stocchi, P.; van de Wal, R.S.W.; Van der Wegen, M. (2018). Sea-level change in the Dutch Wadden Sea. *Geol. Mijnb.* 97(03): 79-127.
<https://doi.org/10.1017/njg.2018.7>
240. Villanueva, L. (2018). Engineering *E. coli* to have a hybrid Archaeal/Bacterial membrane. *Trends microbiol. (Regul. ed.)* 26(7): 559-560.
<https://dx.doi.org/10.1016/j.tim.2018.05.003>
241. Vuik, V.; Suh Heo, H.Y.; Zhu, Z.; Borsje, B.W.; Jonkman, S.N. (2018). Stem breakage of salt marsh vegetation under wave forcing: a field and model study. *Est., Coast. and Shelf Sci.* 200: 41-58.
<https://dx.doi.org/10.1016/j.ecss.2017.09.028>
242. Warden, L.; Moros, M.; Weber, Y.; Sinninghe Damsté, J.S (2018). Change in provenance of branched glycerol dialkyl glycerol tetraethers over the Holocene in the Baltic Sea and its impact on continental climate reconstruction. *Org. Geochem.* 121: 138-154.
<https://doi.org/10.1016/j.orggeochem.2018.03.007>

243. Waser, A.M.; Dekker, R.; Witte, J.I.J.; McSweeney, N.; Ens, B.J.; Van der Meer, J. (2018). Quantifying tidal movements of the shore crab *Carcinus maenas* on to complex epibenthic bivalve habitats. *Est. Coast.* 41(2): 507-520.
<https://dx.doi.org/10.1007/s12237-017-0297-z>
244. Weber, Y.; Sinninghe Damsté, J.S.; Zopfi, J.; de Jonge, C.; Gilli, A.; Schubert, C.J.; Lepori, F.; Lehmann, M.F.; Niemann, H. (2018). Redox-dependent niche differentiation provides evidence for multiple bacterial sources of glycerol tetraether lipids in lakes. *Proc. Natl. Acad. Sci. U.S.A.* 115(43): 10926-10931.
<https://dx.doi.org/10.1073/pnas.1805186115>
245. Wegley Kelly, L.; Haas, A.F.; Nelson, C.E. (2018). Ecosystem microbiology of coral reefs: linking genomic, metabolomic, and biogeochemical dynamics from animal symbioses to reefs-cape processes. *mSystems* 3(2): e00162-17.
<https://dx.doi.org/10.1128/msystems.00162-17>
246. Whomersley, P.; van der Molen, J.; Holt, D.; Trundle, C.; Clark, S.; Fletcher, D. (2018). Modeling the dispersal of spiny lobster (*Palinurus elephas*) larvae: Implications for future fisheries management and conservation measures. *Front. Mar. Sci.* 5: 58.
<https://dx.doi.org/10.3389/fmars.2018.00058>
247. Wijnhoven, S.; Zwiep, K.L.; Hummel, H. (2018). First description of epizoic ciliates (*Sessilida* Stein, 1933) on *Bathyporeia* Lindström, 1855 (Peracarida, Amphipoda) and infestation patterns in brackish and marine waters. *Crustaceana* 91(2): 133-152.
<https://hdl.handle.net/10.1163/15685403-00003741>
248. Willemse, P.W.J.M.; Borsje, B.W.; Hulscher, S.J.M.H.; van der Wal, D.; Zhu, Z.; Oteman, B.; Evans, B.; Möller, I.; Bouma, T.J. (2018). Quantifying bed level change at the transition of tidal flat and salt marsh: can we understand the lateral location of the marsh edge? *Journal of Geophysical Research-Earth Surface* 123(10): 2509-2524.
<https://doi.org/10.1029/2018JF004742>
249. Witkowski, C.R.; Weijers, J.W.H.; Blais, B.; Schouten, S.; Sinninghe Damsté, J.S. (2018). Molecular fossils from phytoplankton reveal secular Pco_2 trend over the Phanerozoic. *Science Advances* 4(11): eaat4556.
<https://doi.org/10.1126/sciadv.aat4556>
250. Woelders, L.; Vellekoop, J.; Weltje, G.J.; de Nooijer, L.; Reichart, G.-J.; Peterse, F.; Claeys, P.; Speijer, R.P. (2018). Robust multi-proxy data integration, using late Cretaceous paleotemperature records as a case study. *Earth Planet. Sci. Lett.* 500: 215-224.
<https://doi.org/10.1016/j.epsl.2018.08.010>
251. Zhang, S.-D.; Ma, Z.; Choi, C.-Y.; Peng, H.-B.; Bai, Q.-Q.; Liu, W.-L.; Tan, K.; Melville, D.S.; He, P.; Chan, Y.-C.; van Gils, J.A.; Piersma, T. (2018). Persistent use of a shorebird staging site in the Yellow Sea despite severe declines in food resources implies a lack of alternatives. *Bird. Cons. Intern.* 28(4): 534-548.
<https://doi.org/10.1017/S0959270917000430>
252. Zwiep, K.L.; Hennekam, R.; Donders, T.H.; van Helmond, N.A.G.M.; de Lange, G.J.; Sangiorgi, F. (2018). Marine productivity, water column processes and seafloor anoxia in relation to Nile discharge during sapropels S1 and S3. *Quat. Sci. Rev.* 200: 178-190.
<https://doi.org/10.1016/j.quascirev.2018.08.026>

NON-REFEREED ARTICLES

1. Faasse, M.; van Dam-Bijleveld, M.; Dekker, R.; Turbeville, J. (2018). Naamlijst van de mariene snoerwormen van Nederland, met vijf nieuwe soorten (Nemertea). *Ned. Faunist. Meded.* 51: 82-92
2. Peperzak, L.; Gollasch, S. (2018). Editorial. *J. Sea Res.* 133: 1.
<https://dx.doi.org/10.1016/j.seares.2017.12.003>
3. Rovere, A.; Casella, E.; Harris, D.L.; Lorscheid, T; Nandasena, N.A.K.; Dyer, B.; Sandstrom, M.R.; Stocchi, P.; D'Andrea, W.J.; Raymo, M.E. (2018). Reply to Hearty and Tormey: Use the scientific method to test geologic hypotheses, because rocks do not whisper. *Proc. Natl. Acad. Sci. U.S.A.* 115(13): E2904-E2905.
<https://doi.org/10.1073/pnas.1800534115>
4. Piersma, T. (2018). Ornithology from the flatlands: the logic to questions about birds (and other topics). *Ardea* 106(1): 1-3.
<https://doi.org/10.5253/arde.v106i1.a0>
5. Slanger, A. (2018). How humans and rising seas affect each other. *Nature (Lond.)* 558(7709): 196-197.
<https://hdl.handle.net/10.1038/d41586-018-05366-9>
6. van Haren, H. (2018). Pull of the tide. *New Sci.* 238(3183): 24-25.
[https://doi.org/10.1016/S0262-4079\(18\)31106-0](https://doi.org/10.1016/S0262-4079(18)31106-0)

BOOKS/MONOGRAPHS

1. Oudman, T.; Piersma, T. (2018). De ontsnapping van de natuur : Een nieuwe kijk op kennis. Athenaeum: Amsterdam. ISBN 9789025308438. 256 pp.

BOOKCHAPTERS

1. Beninger, P.G.; Cuadrado, D.; van de Koppel, J. (2018). Sedimentary and biological patterns on mudflats, *in:* Beninger, P.G. *Mudflat ecology. Aquatic Ecology Series*, 7: pp. 185-211.
https://doi.org/10.1007/978-3-319-99194-8_8
2. Dumitru, C.O.; Schwartz, G.; Espinoza-Molina, D.; Datcu, M.; Hummel, H.; Hummel, C. (2018). Analysis of coastal areas using SAR images: A case study of the Dutch Wadden Sea region, *in:* Weinberg, G. *Topics in Radar Signal Processing*.
<https://dx.doi.org/10.5772/intechopen.70855>
3. Mathot, K.J.; Piersma, T.; Elner, R.W. (2018). Shorebirds as integrators and indicators of mudflat ecology, *in:* Beninger, P.G. *Mudflat ecology. Aquatic Ecology Series*, 7: pp. 309-338.
https://doi.org/10.1007/978-3-319-99194-8_12
4. Thielges, D.W.; Mouritsen, K.N.; Poulin, R. (2018). Ecology of parasites in mudflat ecosystems, *in:* Beninger, P.G. *Mudflat ecology. Aquatic Ecology Series*, 7: pp. 213-242.
https://doi.org/10.1007/978-3-319-99194-8_9
5. van Haren, H. (2018). High-Resolution observations of internal wave turbulence in the deep ocean, *in:* Velarde, M.G. *et al. The Ocean in Motion : Circulation, Waves, Polar Oceanography*. pp. 127-146.
https://doi.org/10.1007/978-3-319-71934-4_11



DISSERTATIONS

1. Ballesta-Artero, I. (2018). Disentangling *Arctica islandica*'s environmental archive: Ecological drivers of its feeding behavior and growth. PhD Thesis. Vrije Universiteit Amsterdam: Amsterdam. ISBN 978-94-028-11599. 210 pp.
<https://hdl.handle.net/1871/55781>
2. Bom, R.A. (2018). Arabian muds: A 21st-century natural history on crab plovers, crabs and molluscs. PhD Thesis. University of Groningen: Groningen. ISBN 978-94-028-11803. 367 pp.
<https://hdl.handle.net/11370/538fd42f-2473-4896-b11b-6655d3dd1671>
3. Cornacchia, L. (2018). Emergent properties of bio-physical self-organization in streams. PhD Thesis. NIOZ: [s.l.]. ISBN 978-94-034-0347-2. 197 pp.
<https://hdl.handle.net/11370/612799da-932a-451e-aebb-ad676e974095>
4. Korte, L.F. (2018). Saharan dust deposition in the equatorial North Atlantic Ocean and its impact on particle export fluxes. PhD Thesis. Vrije Universiteit Amsterdam: Amsterdam. ISBN 9789402811315. 251 pp.
<https://research.vu.nl/en/publications/saharan-dust-deposition-in-the-equatorial-north-atlantic-ocean-an>
5. Nieuwhof, S. (2018). The use of remote sensing to reveal landscape-scale ecosystem engineering by shellfish reefs. PhD Thesis. University of Twente: Enschede. ISBN 978-90-365-4542-6. 156 pp.
<https://doi.org/10.3990/1.9789036545426>
6. Slagter, H.A. (2018). The organic ties of iron: Or the origin and fate of Fe-binding organic ligands. PhD Thesis. University of Groningen: Groningen. ISBN 9789463752282. 220 pp.
<https://hdl.handle.net/11370/4ee61c0b-6fce-4dba-a4a6-85ea40026e11>
7. Sollai, M. (2018). Lipids as indicators of nitrogen cycling in present and past anoxic oceans. PhD Thesis. Utrecht University: Utrecht. ISBN 9789062665051. 271 pp.
<https://hdl.handle.net/1874/367934>
8. Stratmann, T. (2018). Benthic ecosystem response to polymetallic nodule extraction in the deep sea. PhD Thesis. Ghent University: Ghent. ISBN 9789082561159. XXV, 351 pp.
<https://hdl.handle.net/1854/LU-8585749>
9. van der Does, M. (2018). Saharan dust from a marine perspective: transport and deposition along a transect in the Atlantic Ocean. PhD Thesis. Vrije Universiteit Amsterdam: Amsterdam. ISBN 978-94-028-1216-9. 165 pp.
<https://research.vu.nl/en/publications/saharan-dust-from-a-marine-perspective-transport-and-deposition-a>
10. Waser, A.M. (2018). Predation on intertidal mussels: Influence of biotic factors on the survival of epibenthic bivalve beds. PhD Thesis. NIOZ Royal Institute for Sea Research: Texel. ISBN 978-94-6332-327-7. 240 pp.
<https://hdl.handle.net/1871/55620>

PROFESSIONAL PUBLICATIONS

1. Benedetti-Cecchi, L.; Crowe, T.; Boehme, L.; Boero, F.; Christensen, A.; Grémare, A.; Hernandez, F.; Kromkamp, J.C.; Nogueira García, E.; Petihakis, G.; Robidart, J.; Sousa Pinto, I.; Zingone, A.; Larkin, K.; Muñiz Piniella, A.; Kellett, P.; Heymans, S.J.J. (2018). Strengthening



Europe's capability in biological ocean observations. *Marine Board Future Science Brief*, 3. European Marine Board: Ostend. ISBN 9789492043559. 76 pp.

<http://www.vliz.be/imis?module=ref&refid=299974>

2. Bom, R.A.; Philippart, C.J.M.; van der Heide, T.; de Fouw, J; Camphuysen, C.J.; Dethmer, K.; Folmer, E.O.; Stocchi, P.; Stuut, J.-B.; van der Veer, H.W.; Al Zawkani, I. (2018). Barr Al Hikman: a pristine coastal ecosystem in the Sultanate of Oman: Current state of knowledge and future research challenges. *NIOZ-rapport*, 2018(1). NIOZ Royal Institute for Sea Research: Texel. 61 pp.
<http://www.vliz.be/imis?module=ref&refid=304511>
3. de Nooijer, L.; Reichart, G.-J. (2018). Causes and consequences of ocean acidification: with special emphasis on the Dutch territorial waters. *NIOZ-rapport*, 2018(4). NIOZ: Texel. 35 pp.
<http://www.vliz.be/imis?module=ref&refid=300997>
4. de Vries, M.; Möller, I.; Peralta, G.; van der Wal, D.; van Wesenbeeck, B.; Stanica, A. (Ed.) (2018). Earth observation and the coastal zone: from global images to local information. FAST FP7 Project synthesis. GeoEcoMar: Bucuresti. ISBN 978-606-94282-5-2. 66 pp.
<https://dx.doi.org/10.5281/zenodo.1158437>
5. de Vries, M.B.; Möller, I.; Peralta, G.; Morris, E.; Stanica, A.; Scricciu, A.; van der Wal, D.; van Wesenbeeck, B. (2018). Earth observation and the coastal zone: from global images to local information, in: *The ever growing use of Copernicus across Europe's regions: a selection of 99 user stories by local and regional authorities*. pp. 148-149
<http://www.vliz.be/imis?module=ref&refid=304510>
6. Hassell, C.; Boyle, A.; Slaymaker, M.; Piersma, T. (2018). Red Knot Northward Migration Through Bohai Bay, China, Field Trip Report April - June 2018. [S.n.]: [s.l.]. 41 pp.
<http://www.vliz.be/imis?module=ref&refid=301727>
7. Hummel, H.; Van der Meer, J.; Aalberts, N. (2018). Noordzeedagen 2018: denk mee over de Noordzee: thema's, workshop en acties. *NIOZ-rapport*, 2018(8). NIOZ: Texel. 36 pp.
<http://www.vliz.be/imis?module=ref&refid=304592>
8. Jager, Z.; Witbaard, R.; Kroes, M. (2018). Impact of demersal & seine fisheries in the Natura 2000-area Cleaver Bank. *NIOZ-rapport*, 2018(3). NIOZ: Texel. 64 pp.
<http://www.vliz.be/imis?module=ref&refid=294528>
9. Jager, Z.; Witbaard, R.; Kroes, M. (2018). Impact of demersal & seine fisheries in the North Sea areas Frisian Front and Central Oyster Grounds. *NIOZ-rapport*, 2018(6). NIOZ: Yerseke. 70 pp.
<http://www.vliz.be/imis?module=ref&refid=300074>
10. Klunder, L.; van Bleijswijk, J.; van der Veer, H. (2018). Effect of an energy turbine on fish eDNA as indicator for species composition. *NIOZ-rapport*, 2018(7). NIOZ: Texel. 21 pp.
<http://www.vliz.be/imis?module=ref&refid=300245>
11. Rush, D.; Erdem, Z. (2018). Cruise 64PE434: NICO Leg 7 GoMex: R/V Pelagia, 11-03-2018 to 04-04-2018, Philipsburg, Sint Maarten – Nassau, Bahamas. NIOZ: Texel. 63 pp.
<http://www.vliz.be/imis?module=ref&refid=304783>
12. van Belzen, J. (2018). Qualitative growth potential test for brackish *Vaucheria* species. *Protocol Exchange april 2018*.
<https://dx.doi.org/10.1038/protex.2018.041>
13. van der Veer, H.W.; Holthuijsen, S. (2018). Advies omtrent de relatie tussen menselijke activiteiten en bodem (sediment) samenstelling en voorkomen van macrobenthos (SIBES) ten behoeve van beheeractiviteiten/beheerdoelstellingen. *NIOZ-rapport*, 2018(5). Royal Netherlands Institute for Sea Research (NIOZ): Texel. 41 pp.
<http://www.vliz.be/imis?module=ref&refid=295391>



14. van Duyl, F.C.; Meesters, E.H. (2018). Cruise report RV Pelagia 64PE433 : Saba, St Eustatius and Saba Bank Benthic habitat mapping, and Benthic–Pelagic coupling, 26 February - 10 March 2018, St Maarten-St Maarten (NICO expedition leg 6). NIOZ: Texel. 60 pp.
<http://www.vliz.be/imis?module=ref&refid=300779>
15. van Walraven, L.; Peperzak, L. (2018). Effect of a 100 Watt ultrasound transmitter on marine fouling. *NIOZ-rapport*, 2018(2). NIOZ: Texel. 97 pp.
<http://www.vliz.be/imis?module=ref&refid=245274>

PUBLICATIONS AIMED AT THE GENERAL PUBLIC

1. Cadée, G.C. & D. G. Graaff, 2018. *Crescentia* op Texel aangespoeld. Blad, KNNV/IVN
2. Cadée, G.C., 2018. Groeien tegen de verdrukking in: *Mya arenaria*. In de Branding. blad KNNV afd Voorne 2018-4:18-20.
3. Cadée, G.C., 2018. Gerepareerde en begroeide eendenmossels *Lepas anatifera*. Blad KNNV/IVN Alkmaar/den Helder. 55: 20-22.
4. Cadée, G.C.; Loning, W. (2018). ‘Dropshells’ ijstransport van schelpdieren. *Spirula* 415: 6-18
<http://imis.nioz.nl/imis.php?module=ref&refid=304037>
5. Cadée, G.C.; Mulder, H. (2018). Een betelnoot van de zandmotor. *Afzettingen WTKG* 39(2): 59
<http://imis.nioz.nl/imis.php?module=ref&refid=303849>
6. Cadée, G.C.; van Peursen, A.D. (2018). Oorzaak van (geprepareerd) gat in zwanenmossel *Anodonta cygnea* (linnaeus, 1758) gevonden. *Spirula* 414: 6
<http://imis.nioz.nl/imis.php?module=ref&refid=303839>
7. Cadée, G.C. (2018). Doorboorde grote tepelhoorns, *Euspira catena* (da Costa, 1799). *Spirula* 415: 18-21
<http://imis.nioz.nl/imis.php?module=ref&refid=304038>
8. Cadée, G.C. (2018). Een eerdere invasie van bryozoënkolonies op ons strand. *Het Zeepaard* 78(2): 75-77
<http://imis.nioz.nl/imis.php?module=ref&refid=304042>
9. Cadée, G.C. (2018). Jan Verwey’s ms over het paringsgedrag van de kievit. *Vogeljaar* (Amst.) 66(3)
<http://imis.nioz.nl/imis.php?module=ref&refid=304044>
10. Cadée, G.C. (2018). Schelpbeschadiging en -reparatie bij de pelikaansvoet. *Het Zeepaard* 78(4): 15-18
<http://imis.nioz.nl/imis.php?module=ref&refid=304046>
11. Cadée, G.C. (2018). Shell repair after serious damage in *Ensis leei* (Bivalvia, Pharidae). *Basteria* 82: 33-35
<http://imis.nioz.nl/imis.php?module=ref&refid=304035>
12. Cadée, G.C. (2018). Sporenrijke Otterschelpen *Lutraria lutraria* (Linnaeus, 1758). *Spirula* 416: 7-8
<http://imis.nioz.nl/imis.php?module=ref&refid=304045>
13. Cadée, G.C. (2018). Van Deinse Prince of Whales, inspirator walvisonderzoek in Nederland. *Natura* (Amst.) 2018-2(2): 12-14



14. Cadée, G.C., 2018. Krabben met zeepokogen. Blad KNNV/IVN Alkmaar den Helder. 53: 5-6.
<http://imis.nioz.nl/imis.php?module=ref&refid=304043>
15. Oudman, T.; Piersma, T. (2018). Wetenschap kan ons niet vertellen wat waarde heeft. *De Correspondent*, 23 juni 2018
16. Philippart, C.J.M. (2018). Hitte is de nieuwe kou : Inaugurele rede uitgesproken bij de aanvaarding van het bijzonder hoogleraarschap Productivity of Coastal Marine Systems aan de faculteit Geowetenschappen van de Universiteit Utrecht, op 14 november 2018 door Katja Philippart. Utrecht University: Utrecht. ISBN 9789062665235. 34 pp.
<http://www.vliz.be/imis?module=ref&refid=303392>

