

SUPPLEMENT

ANNUAL REPORT 2017



Royal Netherlands Institute for Sea Research

Peer-reviewed papers	3
Non-refereed papers	28
Monographs.....	28
Chapters in books	29
Dissertations.....	29
Profesional publications.....	30
Publications aimed at the general public	31

PEER-REVIEWED PAPERS

1. Åkesson, S.; Ilieva, M.; Karagicheva, J.; Rakhimberdiev, E.; Tomotani, B.; Helm, B. (2017). Timing avian long-distance migration : from internal clock mechanisms to global flights. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160252. <https://dx.doi.org/10.1098/rstb.2016.0252>
2. Alves, R.M.S.; Van Colen, C.; Vincx, M.; Vanaverbeke, J.; De Smet, B.; Guarini, J.-M.; Rabaut, M.; Bouma, T.J. (2017). A case study on the growth of *Lanice conchilega* (Pallas, 1766) aggregations and their ecosystem engineering impact on sedimentary processes. *J. Exp. Mar. Biol. Ecol.* 489: 15-23. <https://dx.doi.org/10.1016/j.jembe.2017.01.005>
3. Alves, R.M.S.; Vanaverbeke, J.; Bouma, T.J.; Guarini, J.-M.; Vincx, M.; Van Colen, C. (2017). Effects of temporal fluctuation in population processes of intertidal *Lanice conchilega* (Pallas, 1766) aggregations on its ecosystem engineering. *Est., Coast. and Shelf Sci.* 188: 88-98. <https://dx.doi.org/10.1016/j.ecss.2017.02.012>
4. Arrigo, K.R.; van Dijken, G.L.; Alderkamp, A.-C.; Erickson, Z.K.; Lewis, K.M.; Lowry, K.E.; Joy-Warren, H.L.; Middag, R.; Nash-Arrigo, J.E.; Selz, V.; van de Poll, W. (2017). Early Spring Phytoplankton Dynamics in the Western Antarctic Peninsula. *Journal of Geophysical Research-Oceans* 122(12): 9350–9369 . <https://dx.doi.org/10.1002/2017jc013281>
5. Bale, N.; de Vries, S.; Hopmans, E.C.; Sinninghe Damsté, J.S.; Schouten, S. (2017). A method for quantifying heterocyst glycolipids in biomass and sediments. *Org. Geochem.* 110: 33-35. <https://dx.doi.org/10.1016/j.orggeochem.2017.04.010>
6. Ballesta-Artero, I.; Witbaard, R.; Carroll, M.L.; Van der Meer, J. (2017). Environmental factors regulating gaping activity of the bivalve *Arctica islandica* in Northern Norway. *Mar. Biol. (Berl.)* 164(5): 116. <https://dx.doi.org/10.1007/s00227-017-3144-7>
7. Balzano, S.; Villanueva, L.; de Bar, M.; Sinninghe Damsté, J.S.; Schouten, S. (2017). Impact of culturing conditions on the abundance and composition of long chain alkyl diols in species of the genus *Nannochloropsis*. *Org. Geochem.* 108: 9-17. <https://dx.doi.org/10.1016/j.orggeochem.2017.02.006>
8. Barceló-Llull, B.; Sangrà, P.; Pallàs-Sanz, E.; Barton, E.D.; Estrada-Allis, S.N.; Martínez-Marro, A.; Aguiar-González, B.; Grisolia, D.; Gordo, C.; Rodríguez-Santana, Á.; Márrero-Díaz, A.; Aristegui, J. (2017). Anatomy of a subtropical intrathermocline eddy. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 124: 126-139. <https://dx.doi.org/10.1016/j.dsr.2017.03.012>
9. Beauchard, O.; Veríssimo, H.; Queirós, A.M.; Herman, P.M.J. (2017). The use of multiple biological traits in marine community ecology and its potential in ecological indicator development. *Ecol. Indic.* 76: 81-96. <https://dx.doi.org/10.1016/j.ecolind.2017.01.011>
10. Bell, J.B.; Woulds, C.; van Oevelen, D. (2017). Hydrothermal activity, functional diversity and chemoautotrophy are major drivers of seafloor carbon cycling. *NPG Scientific Reports* 7(1): 12025. <https://doi.org/10.1038/s41598-017-12291-w>
11. Bergauer, K.; Fernández-Guerra, A.; Garcia, J.A.L.; Sprenger, R.R.; Stepanauskas, R.; Pachiadaki, M.G.; Jensen, O.N.; Herndl, G. (2017). 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>
12. Bernhardt, A.; Schwanghart, W.; Hebbeln, D.; Stuut, J-B W.; Strecker, M.R. (2017). Immediate propagation of deglacial environmental change to deep-marine turbidite systems along the Chile convergent margin. *Earth Planet. Sci. Lett.* 473: 190-204. <https://dx.doi.org/10.1016/j.epsl.2017.05.017>

13. Beukema, J.J.; Dekker, R.; Drent, J. (2017). Dynamics of a Limecola (Macoma) balthica population in a tidal flat area in the western Wadden Sea: effects of declining survival and recruitment. *Helgol. Mar. Res.* 71(1): 12. <https://dx.doi.org/10.1186/s10152-017-0498-7>
14. Beukema, J.J.; Dekker, R.; Drent, J.; van der Meer, J. (2017). Long-term changes in annual growth of bivalves in the Wadden Sea: influences of temperature, food, and abundance. *Mar. Ecol. Prog. Ser.* 573: 143-156. <https://doi.org/10.3354/meps12122>
15. Beukema, J.J. (2017). Parallel changes of Limecola (Macoma) balthica populations in the Dutch Wadden Sea. *Mar. Ecol. Prog. Ser.* 585: 71-79. <https://dx.doi.org/10.3354/meps12360>
16. Bijl, P.K.; Brinkhuis, H.; Egger, L.M.; Eldrett, J.S.; Frieling, J.; Grothe, A.; Houben, A.J.P.; Pross, J.; Sliwinska, K.K.; Sluijs, A. (2017). Comment on 'Wetzeliella and its allies – the 'hole' story: a taxonomic revision of the Paleogene dinoflagellate subfamily Wetzelielloideae' by Williams et al. (2015). *Palynology* 41(3): 423-429. <https://dx.doi.org/10.1080/01916122.2016.1235056>
17. Bokhorst, S.; Convey, P.; Huiskes, A.; Aerts, R.; Huiskes, A. (2017). Dwarf shrub and grass vegetation resistant to long-term experimental warming while microarthropod abundance declines on the Falkland Islands. *Aust. Ecol.* 42(8): 984-994. <https://dx.doi.org/10.1111/aec.12527>
18. Bolhuis, H.; Martín-Cuadrado, A.B.; Rosselli, R.; Pašić, L.; Rodríguez-Valera, F. (2017). Transcriptome analysis of *Haloquadratum walsbyi*: vanity is but the surface. *BMC Genom.* 18(1): 14. <https://dx.doi.org/10.1186/s12864-017-3892-2>
19. Booij, K.; Maarsen, N.L.; Theeuwes, M.; van Bommel, R. (2017). A method to account for the effect of hydrodynamics on polar organic compound uptake by passive samplers. *Environ. Toxicol. Chem.* 36(6): 1517-1524. <https://dx.doi.org/10.1002/etc.3700>
20. Booij, K.; Smedes, F.; Crum, S. (2017). Laboratory performance study for passive sampling of nonpolar chemicals in water. *Environ. Toxicol. Chem.* 36(5): 1156-1161. <https://dx.doi.org/10.1002/etc.3657>
21. Bown, J.; Laan, P.; Ossebaar, S.; Bakker, K.; Rozema, P.; de Baar, H. (2017). Bioactive trace metal time series during Austral summer in Ryder Bay, Western Antarctic Peninsula. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 139: 103-119. <https://dx.doi.org/10.1016/j.dsr2.2016.07.004>
22. Brandsma, O.H.; Kentie, R.; Piersma, T. (2017). Why did Lapwings *Vanellus vanellus* in managed habitat advance egg laying during a period without warming early springs? *Ardea* 105(1): 19-26. <https://dx.doi.org/10.5253/arde.v105i1.a7>
23. Brankovits, D.; Pohlman, J.W.; Niemann, H.; Leigh, M.B.; Leewis, M.C.; Becker, K.W.; Iliffe, T.M.; Alvarez, F.; Lehmann, M.F.; Phillips, B. (2017). Methane- and dissolved organic carbon-fueled microbial loop supports a tropical subterranean estuary ecosystem. *Nature Comm.* 8(1): 12 pp. <https://dx.doi.org/10.1038/s41467-017-01776-x>
24. Brooke, S.D.; Watts, M.W.; Heil, A.D.; Rhode, M.; Mienis, F.; Duineveld, G.C.A.; Davies, A.J.; Ross, S.W. (2017). Distributions and habitat associations of deep-water corals in Norfolk and Baltimore Canyons, Mid-Atlantic Bight, USA. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* A137: 131-147. dx.doi.org/10.1016/j.dsr2.2016.05.008
25. Bulla, M.; Oudman, T.; Bijleveld, A.I.; Piersma, T.; Kyriacou, C.P. (2017). Marine biorhythms : bridging chronobiology and ecology. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160253. <https://dx.doi.org/10.1098/rstb.2016.0253>
26. Burdorf, L.D.W.; Tramper, A.; Seitaj, D.; Meire, L.; Hidalgo-Martinez, S.; Zetsche, E.-M.; Boschker, H.T.S.; Meysman, F.J.R. (2017). Long-distance electron transport occurs globally in marine sediments. *Biogeosciences* 14(3): 683-701. <https://dx.doi.org/10.5194/bg-14-683-2017>



PEER-REVIEWED PAPERS

1. Åkesson, S.; Ilieva, M.; Karagicheva, J.; Rakhimberdiev, E.; Tomotani, B.; Helm, B. (2017). Timing avian long-distance migration : from internal clock mechanisms to global flights. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160252. <https://dx.doi.org/10.1098/rstb.2016.0252>
2. Alves, R.M.S.; Van Colen, C.; Vincx, M.; Vanaverbeke, J.; De Smet, B.; Guarini, J.-M.; Rabaut, M.; Bouma, T.J. (2017). A case study on the growth of *Lanice conchilega* (Pallas, 1766) aggregations and their ecosystem engineering impact on sedimentary processes. *J. Exp. Mar. Biol. Ecol.* 489: 15-23. <https://dx.doi.org/10.1016/j.jembe.2017.01.005>
3. Alves, R.M.S.; Vanaverbeke, J.; Bouma, T.J.; Guarini, J.-M.; Vincx, M.; Van Colen, C. (2017). Effects of temporal fluctuation in population processes of intertidal *Lanice conchilega* (Pallas, 1766) aggregations on its ecosystem engineering. *Est., Coast. and Shelf Sci.* 188: 88-98. <https://dx.doi.org/10.1016/j.ecss.2017.02.012>
4. Arrigo, K.R.; van Dijken, G.L.; Alderkamp, A.-C.; Erickson, Z.K.; Lewis, K.M.; Lowry, K.E.; Joy-Warren, H.L.; Middag, R.; Nash-Arrigo, J.E.; Selz, V.; van de Poll, W. (2017). Early Spring Phytoplankton Dynamics in the Western Antarctic Peninsula. *Journal of Geophysical Research-Oceans* 122(12): 9350–9369 . <https://dx.doi.org/10.1002/2017jc013281>
5. Bale, N.; de Vries, S.; Hopmans, E.C.; Sinninghe Damsté, J.S.; Schouten, S. (2017). A method for quantifying heterocyst glycolipids in biomass and sediments. *Org. Geochem.* 110: 33-35. <https://dx.doi.org/10.1016/j.orggeochem.2017.04.010>
6. Ballesta-Artero, I.; Witbaard, R.; Carroll, M.L.; Van der Meer, J. (2017). Environmental factors regulating gaping activity of the bivalve *Arctica islandica* in Northern Norway. *Mar. Biol. (Berl.)* 164(5): 116. <https://dx.doi.org/10.1007/s00227-017-3144-7>
7. Balzano, S.; Villanueva, L.; de Bar, M.; Sinninghe Damsté, J.S.; Schouten, S. (2017). Impact of culturing conditions on the abundance and composition of long chain alkyl diols in species of the genus *Nannochloropsis*. *Org. Geochem.* 108: 9-17. <https://dx.doi.org/10.1016/j.orggeochem.2017.02.006>
8. Barceló-Llull, B.; Sangrà, P.; Pallàs-Sanz, E.; Barton, E.D.; Estrada-Allis, S.N.; Martínez-Marro, A.; Aguiar-González, B.; Grisolia, D.; Gordo, C.; Rodríguez-Santana, Á.; Márrero-Díaz, A.; Aristegui, J. (2017). Anatomy of a subtropical intrathermocline eddy. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 124: 126-139. <https://dx.doi.org/10.1016/j.dsr.2017.03.012>
9. Beauchard, O.; Veríssimo, H.; Queirós, A.M.; Herman, P.M.J. (2017). The use of multiple biological traits in marine community ecology and its potential in ecological indicator development. *Ecol. Indic.* 76: 81-96. <https://dx.doi.org/10.1016/j.ecolind.2017.01.011>
10. Bell, J.B.; Woulds, C.; van Oevelen, D. (2017). Hydrothermal activity, functional diversity and chemoautotrophy are major drivers of seafloor carbon cycling. *NPG Scientific Reports* 7(1): 12025. <https://doi.org/10.1038/s41598-017-12291-w>
11. Bergauer, K.; Fernández-Guerra, A.; Garcia, J.A.L.; Sprenger, R.R.; Stepanauskas, R.; Pachiadaki, M.G.; Jensen, O.N.; Herndl, G. (2017). 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>
12. Bernhardt, A.; Schwanghart, W.; Hebbeln, D.; Stuut, J-B W.; Strecker, M.R. (2017). Immediate propagation of deglacial environmental change to deep-marine turbidite systems along the Chile convergent margin. *Earth Planet. Sci. Lett.* 473: 190-204. <https://dx.doi.org/10.1016/j.epsl.2017.05.017>



13. Beukema, J.J.; Dekker, R.; Drent, J. (2017). Dynamics of a Limecola (Macoma) balthica population in a tidal flat area in the western Wadden Sea: effects of declining survival and recruitment. *Helgol. Mar. Res.* 71(1): 12. <https://dx.doi.org/10.1186/s10152-017-0498-7>
14. Beukema, J.J.; Dekker, R.; Drent, J.; van der Meer, J. (2017). Long-term changes in annual growth of bivalves in the Wadden Sea: influences of temperature, food, and abundance. *Mar. Ecol. Prog. Ser.* 573: 143-156. <https://doi.org/10.3354/meps12122>
15. Beukema, J.J. (2017). Parallel changes of Limecola (Macoma) balthica populations in the Dutch Wadden Sea. *Mar. Ecol. Prog. Ser.* 585: 71-79. <https://dx.doi.org/10.3354/meps12360>
16. Bijl, P.K.; Brinkhuis, H.; Egger, L.M.; Eldrett, J.S.; Frieling, J.; Grothe, A.; Houben, A.J.P.; Pross, J.; Sliwinska, K.K.; Sluijs, A. (2017). Comment on 'Wetzeliella and its allies – the 'hole' story: a taxonomic revision of the Paleogene dinoflagellate subfamily Wetzelielloideae' by Williams et al. (2015). *Palynology* 41(3): 423-429. <https://dx.doi.org/10.1080/01916122.2016.1235056>
17. Bokhorst, S.; Convey, P.; Huiskes, A.; Aerts, R.; Huiskes, A. (2017). Dwarf shrub and grass vegetation resistant to long-term experimental warming while microarthropod abundance declines on the Falkland Islands. *Aust. Ecol.* 42(8): 984-994. <https://dx.doi.org/10.1111/aec.12527>
18. Bolhuis, H.; Martín-Cuadrado, A.B.; Rosselli, R.; Pašić, L.; Rodríguez-Valera, F. (2017). Transcriptome analysis of *Haloquadratum walsbyi*: vanity is but the surface. *BMC Genom.* 18(1): 14. <https://dx.doi.org/10.1186/s12864-017-3892-2>
19. Booij, K.; Maarsen, N.L.; Theeuwes, M.; van Bommel, R. (2017). A method to account for the effect of hydrodynamics on polar organic compound uptake by passive samplers. *Environ. Toxicol. Chem.* 36(6): 1517-1524. <https://dx.doi.org/10.1002/etc.3700>
20. Booij, K.; Smedes, F.; Crum, S. (2017). Laboratory performance study for passive sampling of nonpolar chemicals in water. *Environ. Toxicol. Chem.* 36(5): 1156-1161. <https://dx.doi.org/10.1002/etc.3657>
21. Bown, J.; Laan, P.; Ossebaar, S.; Bakker, K.; Rozema, P.; de Baar, H. (2017). Bioactive trace metal time series during Austral summer in Ryder Bay, Western Antarctic Peninsula. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 139: 103-119. <https://dx.doi.org/10.1016/j.dsr2.2016.07.004>
22. Brandsma, O.H.; Kentie, R.; Piersma, T. (2017). Why did Lapwings *Vanellus vanellus* in managed habitat advance egg laying during a period without warming early springs? *Ardea* 105(1): 19-26. <https://dx.doi.org/10.5253/arde.v105i1.a7>
23. Brankovits, D.; Pohlman, J.W.; Niemann, H.; Leigh, M.B.; Leewis, M.C.; Becker, K.W.; Iliffe, T.M.; Alvarez, F.; Lehmann, M.F.; Phillips, B. (2017). Methane- and dissolved organic carbon-fueled microbial loop supports a tropical subterranean estuary ecosystem. *Nature Comm.* 8(1): 12 pp. <https://dx.doi.org/10.1038/s41467-017-01776-x>
24. Brooke, S.D.; Watts, M.W.; Heil, A.D.; Rhode, M.; Mienis, F.; Duineveld, G.C.A.; Davies, A.J.; Ross, S.W. (2017). Distributions and habitat associations of deep-water corals in Norfolk and Baltimore Canyons, Mid-Atlantic Bight, USA. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* A137: 131-147. dx.doi.org/10.1016/j.dsr2.2016.05.008
25. Bulla, M.; Oudman, T.; Bijleveld, A.I.; Piersma, T.; Kyriacou, C.P. (2017). Marine biorhythms : bridging chronobiology and ecology. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160253. <https://dx.doi.org/10.1098/rstb.2016.0253>
26. Burdorf, L.D.W.; Tramper, A.; Seitaj, D.; Meire, L.; Hidalgo-Martinez, S.; Zetsche, E.-M.; Boschker, H.T.S.; Meysman, F.J.R. (2017). Long-distance electron transport occurs globally in marine sediments. *Biogeosciences* 14(3): 683-701. <https://dx.doi.org/10.5194/bg-14-683-2017>



27. Cadée, G.C. (2017). Jan Verwey's unfinished manuscript on the breeding ecology of the Northern Lapwing *Vanellus vanellus* "Pair formation in the Lapwing, including its polygamy" : Introduction. *Wader Study* 124(1): 5-9. <https://dx.doi.org/10.18194/ws.00066>
28. Canário, J.; Santos-Echeandia, J.; Padeiro, A.; Amaro, E.; Strass, V.; Klaas, C.; Hoppema, M.; Ossebaar, S.; Koch, B.P.; Laglera, L.M. (2017). Mercury and methylmercury in the Atlantic sector of the Southern Ocean. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 138: 52-62. <https://dx.doi.org/10.1016/j.dsr2.2016.07.012>
29. Cardoso, D.C.; Sandionigi, A.; Cretoiu, M.S; Casiraghi, M.; Stal, L.; Bolhuis, H. (2017). Comparison of the active and resident community of a coastal microbial mat. *NPG Scientific Reports* 7: 2969. <https://dx.doi.org/10.1038/s41598-017-03095-z>
30. Carlson, D.F.; Boone, W.; Meire, L.; Abermann, J.; Rysgaard, S. (2017). Bergy Bit and Melt Water Trajectories in Godthåbsfjord (SW Greenland) Observed by the Expendable Ice Tracker. *Front. Mar. Sci.* 4: 276. <https://dx.doi.org/10.3389/fmars.2017.00276>
31. Carvalho, M.G.; Moreira, C.; Cardoso, J.F.M.F.; Brummer, G.-J. A.; van Gaeveer, P.; van der Veer, H.W.; Queiroga, H.; Santos, P.T.; Correia, A.T. (2017). Movement, connectivity and population structure of the intertidal fish *Lipophrys pholis* as revealed by otolith oxygen and carbon stable. *Mar. Biol. Res.* 137(7): 764-773. <https://dx.doi.org/10.1080/17451000.2017.1306079>
32. Cheah, W.; Soppa, M.A.; Wiegmann, S.; Ossebaar, S.; Laglera, L.M.; Strass, V.H.; Santos-Echeandia, J.; Hoppema, M.; Wolf-Gladrow, D.; Bracher, A. (2017). Importance of deep mixing and silicic acid in regulating phytoplankton biomass and community in the iron-limited Antarctic Polar Front region in summer. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 138: 74-85. <https://dx.doi.org/10.1016/j.dsr2.2016.05.019>
33. Chen, J.; Hanke, A.; Tegetmeyer, H.E.; Kattelman, I.; Sharma, R.; Hamann, E.; Hargesheimer, T.; Kraft, B.; Lenk, S.; Geelhoed, J.S.; Hettich, R.L.; Strous, M. (2017). Impacts of chemical gradients on microbial community structure. *ISME J.* 11(4): 920-931. dx.doi.org/10.1038/ismej.2016.175
34. Christianen, M.J.A.; Middelburg, J.J.; Holthuijsen, S.J.; Jouta, J.; Compton, T.J.; van der Heide, T.; Piersma, T.; Sinninghe Damsté, J.S.; van der Veer, H.W.; Schouten, S.; Olf, H. (2017). Benthic primary producers are key to sustain the Wadden Sea food web: stable carbon isotope analysis at landscape scale. *Ecology* 98(6): 1498-1512. <https://dx.doi.org/10.1002/ecy.1837>
35. Christianen, M.J.A.; van der Heide, T.; Holthuijsen, S.J.; van der Reijden, K.J.; Borst, A.C.W.; Olf, H. (2017). Biodiversity and food web indicators of community recovery in intertidal shellfish reefs. *Biol. Conserv.* 213: 317-324. <https://dx.doi.org/10.1016/j.biocon.2016.09.028>
36. Clifford, E.L.; Hansell, D.A.; Varela, M.M.; Nieto-Cid, M.; Herndl, G.J.; Sintes, E. (2017). Crustacean zooplankton release copious amounts of dissolved organic matter as taurine in the ocean. *Limnol. Oceanogr.* 62(6): 2745-2758. <https://dx.doi.org/10.1002/lno.10603>
37. Compton, T.J.; Holthuijsen, S.; Mulder, M.; van Arkel, M.; Kleine Schaars, L.; Koolhaas, A.; Dekinga, A.; ten Horn, J.; Luttikhuisen, P.C.; Van der Meer, J.; Piersma, T.; van der Veer, H.W. (2017). Shifting baselines in the Ems Dollard estuary : A comparison across three decades reveals changing benthic communities. *J. Sea Res.* 127: 119-132. <https://dx.doi.org/10.1016/j.seares.2017.06.014>
38. Conklin, J.R.; Senner, N.R.; Battley, P.F.; Piersma, T. (2017). Extreme migration and the individual quality spectrum. *J. Avian Biol.* 48(1): 19–36. dx.doi.org/10.1111/jav.01316
39. Coutinho, F.H.; Silveira, C.B.; Gregoracci, G.B.; Thompson, C.; Edwards, R.A.; Brussaard, C.P.D.; Dutilh, B.E.; Thompson, F.L. (2017). Marine viruses discovered via metagenomics shed light on viral strategies throughout the oceans. *Nature Comm.* 8: 15955. <https://dx.doi.org/10.1038/ncomms15955>



40. Cox, T.J.S.; van Beusekom, J.E.E.; Soetaert, K. (2017). Tune in on 11.57 μ Hz and listen to primary production. *Biogeosciences* 14(22): 5271-5280. <https://dx.doi.org/10.5194/bg-14-5271-2017>
41. Cozzoli, F.; Smolders, S.; Eelkema, M.; Ysebaert, T.; Escavara, V.; Temmerman, S.; Meire, P.; Herman, P.; Bouma, T.J. (2017). A modeling approach to assess coastal management effects on benthic habitat quality: a case study on coastal defense and navigability. *Est., Coast. and Shelf Sci.* 184: 67-82. <https://dx.doi.org/10.1016/j.ecss.2016.10.043>
42. Crawford, K.J.; Alvarez-Fernandez, S.; Mojica, K.D.A.; Riebesell, U.; Brussaard, C.P.D. (2017). Alterations in microbial community composition with increasing fCO₂: a mesocosm study in the eastern Baltic Sea. *Biogeosciences* 14(16): 3831-3849. <https://dx.doi.org/10.5194/bg-14-3831-2017>
43. dal Bello, M.; Leclerc, J.-C.; Benedetti-Cecchi, L.; De Lucia, G.A.; Arvanitidis, C.; van Avesaath, P.; Bachelet, G.; Bojanic, N.; Como, S.; Coppa, S.; Coughlan, J.; Crowe, T.; Degraer, S.; Espinosa, F.; Faulwetter, S.; Frost, M.; Guinda, X.; Jankowska, E.; Jourde, J.; De La Pena, J.A.J.; Kerckhof, F.; Kotta, J.; Lavesque, N.; Magni, P.; de Matos, V.; Orav-Kotta, H.; Pavloudi, C.; Pedrotti, M.L.; Peleg, O.; Pérez-Ruzafa, A.; Puente, A.; Ribeiro, P.; Rigaut-Jalabert, F.; Rilov, G.; Rousou, M.; Rubal, M.; Ruginis, T.; Silva, T.; Simon, N.; Sousa-Pinto, I.; Troncoso, J.; Warzocha, J.; Weslawski, J.M.; Hummel, H. (2017). Consistent patterns of spatial variability between NE Atlantic and Mediterranean rocky shores. *J. Mar. Biol. Ass. U.K.* 97(3): 539-547. <https://dx.doi.org/10.1017/S0025315416001491>
44. David, H.; Kromkamp, J.C.; Orive, E. (2017). Relationship between strains of *Coolia monotis* (Dinophyceae) from the Atlantic Iberian Peninsula and their sampling sites. *J. Exp. Mar. Biol. Ecol.* 487: 59-67. dx.doi.org/10.1016/j.jembe.2016.11.014
45. De Baar, H.J.W.; van Heuven, S.M.A.C.; Abouchami, W.; Xue, Z.; Galer, S.J.G.; Rehkämper, M.; Middag, R.; van Ooijen, J. (2017). Interactions of dissolved CO₂ with cadmium isotopes in the Southern Ocean. *Mar. Chem.* 195: 105-121. <https://doi.org/10.1016/j.marchem.2017.06.010>
46. de Bakker, D.M.; van Duyl, F.C.; Bak, R.P.M.; Nugues, M.M.; Nieuwland, G.; Meesters, E.H. (2017). 40 Years of benthic community change on the Caribbean reefs of Curaçao and Bonaire: the rise of slimy cyanobacterial mats. *Coral Reefs* 36(2): 355-367. <https://dx.doi.org/10.1007/s00338-016-1534-9>
47. de Bar, M.W.; Hopmans, E.C.; Verweij, M.; Dorhout, D.J.C.; Sinninghe Damsté, J.S.; Schouten, S. (2017). Development and comparison of chromatographic methods for the analysis of long chain diols and alkenones in biological materials and sediment. *J. Chromatogr.* 1521: 150-160. <https://dx.doi.org/10.1016/j.chroma.2017.09.037>
48. de Boer, B.; Stocchi, P.; Whitehouse, P.L.; van de Wal, R.S.W. (2017). Current state and future perspectives on coupled ice-sheet – sea-level modelling. *Quat. Sci. Rev.* 169: 13-28. <https://doi.org/10.1016/j.quascirev.2017.05.013>
49. De Clippele, L. H.; Gafeira, J.; Robert, K.; Hennige, S.; Lavaleye, M.S.; Duineveld, G.C.A.; Huvenne, V.A.I.; Roberts, J.M. (2017). Using novel acoustic and visual mapping tools to predict the small-scale spatial distribution of live biogenic reef framework in cold-water coral habitats. *Coral Reefs* 36(1): 255-268. dx.doi.org/10.1007/s00338-016-1519-8
50. de Jager, M.; Weissing, F.J.; van de Koppel, J. (2017). Why mussels stick together: spatial self-organization affects the evolution of cooperation. *Evolutionary Ecology* 31(4): 547-558. <https://dx.doi.org/10.1007/s10682-017-9888-1>
51. de Nooijer, L.J.; Brombacher, A.; Mewes, A.; Langer, G.; Nehrke, G.; Bijma, J.; Reichart, G.-J. (2017). Ba incorporation in benthic foraminifera. *Biogeosciences* 14(14): 3387-3400. <https://dx.doi.org/10.5194/bg-14-3387-2017>



52. de Nooijer, L.J.; van Dijk, I.; Toyofuku, T.; Reichart, G.J. (2017). The Impacts of Seawater Mg/Ca and Temperature on Element Incorporation in Benthic Foraminiferal Calcite. *Geochem. Geophys. Geosyst.* 18(10): 3617-3630. <https://doi.org/10.1002/2017GC007183>
53. de Paoli, H.C.; van der Heide, T.; van den Berg, A.; Silliman, B.R.; Herman, P.M.J.; van de Koppel, J. (2017). Behavioral self-organization underlies the resilience of a coastal ecosystem. *Proc. Natl. Acad. Sci. U.S.A.* 114(30): 8035-8040. <https://dx.doi.org/10.1073/pnas.1619203114>
54. de Steur, L.; Pickart, R.S.; Macrander, A.; Våge, K.; Harden, B.; Jónsson, S.; Østerhus, S.; Valdimarsson, H. (2017). Liquid freshwater transport estimates from the East Greenland Current based on continuous measurements north of Denmark Strait. *J. Geophys. Res. Oceans* 122(1): 93–109. <https://dx.doi.org/10.1002/2016JC012106>
55. De Tender, C.; Schlundt, C.; Devriese, L.; Mincer, T.J.; Zettler, E.R.; Amaral-Zettler, L.A. (2017). A review of microscopy and comparative molecular-based methods to characterize “Plastisphere” communities. *Anal. Methods* 9(14): 2132-2143. <https://dx.doi.org/10.1039/c7ay00260b>
56. de Winter, R.C.; Reerink, T.J.; Slangen, A.B.A.; de Vries, H.; Edwards, T.L.; van de Wal, R.S.W. (2017). Impact of asymmetric uncertainties in ice sheet dynamics on regional sea level projections. *Nat. Hazards Earth Syst. Sci.* 17(12): 2125-2141. <https://doi.org/10.5194/nhess-17-2125-2017>
57. Debeljak, P.; Proietti, M.; Reisser, J.; Ferrari, F.F.; Abbas, B.; van Loosdrecht, M.C.M.; Slat, B.; Herndl, G.J. (2017). Extracting DNA from ocean microplastics: a method comparison study. *Anal. Methods* 9(9): 1521-1526. <https://dx.doi.org/10.1039/C6AY03119F>
58. Demopoulos, A.W.J.; McClain-Counts, J.; Ross, S.W.; Brooke, S.; Mienis, F. (2017). Food-web dynamics and isotopic niches in deep-sea communities residing in a submarine canyon and on the adjacent open slopes. *Mar. Ecol. Prog. Ser.* 578: 19-33. <https://dx.doi.org/10.3354/meps12231>
59. Denis, E.H.; Pedentchouk, N.; Schouten, S.; Pagani, M.; Freeman, K.H. (2017). Fire and ecosystem change in the Arctic across the Paleocene-Eocene Thermal Maximum. *Earth Planet. Sci. Lett.* 467: 149-156. <https://dx.doi.org/10.1016/j.epsl.2017.03.021>
60. Dias, M.S.; Tedesco, P.A.; Hugueny, B.; Jézéquel, C.; Beauchard, O.; Brosse, S.; Oberdorff, T. (2017). Anthropogenic stressors and riverine fish extinctions. *Ecol. Indic.* 79: 37-46. <https://dx.doi.org/10.1016/j.ecolind.2017.03.053>
61. Dominoni, D.M.; Åkesson, S.; Klaassen, R.; Spoelstra, K.; Bulla, M. (2017). Methods in field chronobiology. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160247. <https://dx.doi.org/10.1098/rstb.2016.0247>
62. Drakou, E.G.; Kermagoret, C.; Liqueste, C.; Ruiz-Frau, A.; Burkhard, K.; Lillebø, A.I.; van Oudenhoven, A.P.E.; Ballé-Béganton, J.; Rodrigues, J.G.; Nieminen, E.; Oinonen, S.; Ziemba, A.; Gissi, E.; Depellegrin, D.; Veidemane, K.; Ruskule, A.; Delangue, J.; Böhnke-Henrichs, A.; Boon, A.; Wenning, R.; Martino, S.; Hasler, B.; Termansen, M.; Rockel, M.; Hummel, H.; El Serafy, G.; Peev, P. (2017). Marine and coastal ecosystem services on the science–policy–practice nexus: challenges and opportunities from 11 European case studies. *Int.J. Biodivers. Sci. Ecosys. Serv. Manag.* 13(3): 51-67. <https://dx.doi.org/10.1080/21513732.2017.1417330>
63. Driemel, A.; Fahrbach, E.; Rohardt, G.; Beszczynska-Möller, A.; Boetius, A.; Budéus, G.; Cisewski, B.; Engbrodt, R.; Gauger, S.; Geibert, W.; Geprägs, P.; Gerdes, D.; Gersonde, R.; Gordon, A.L.; Grobe, H.; Hellmer, H.H.; Isla, E.; Jacobs, S.; Janout, M.; Jokat, W.; Klages, M.; Kuhn, G.; Meincke, J.; Ober, S.; Østerhus, S.; Peterson, R.G.; Rabe, B.; Rudels, B.; Schauer, U.; Schröder, M.; Schumacher, S.; Sieger, R.; Sildam, J.; Soltwedel, T.; Stangeew, E.; Stein, M.; Strass, V.H.; Thiede, J.; Tippenhauer, S.; Veth, C.; von Appen, W.-J.; Weirig, M.-F.; Wisotzki,

- A.; Wolf-Gladrow, D.A.; Kanzow, T. (2017). From pole to pole: 33 years of physical oceanography onboard R/V Polarstern. *ESSD* 9(1): 211-220. <https://dx.doi.org/10.5194/essd-9-211-2017>
64. Dulaquais, G.; Planquette, H.; L'Helguen, S.; Rijkenberg, M.J.A.; Boye, M. (2017). The biogeochemistry of cobalt in the Mediterranean Sea. *Global Biogeochem. Cycles* 31: 377-399. dx.doi.org/10.1002/2016gb005478
65. Durden, J.M.; Ruhl, H.A.; Pebody, C.; Blackbird, S.J.; Van Oevelen, D. (2017). Differences in the carbon flows in the benthic food webs of abyssal hill and plain habitats. *Limnol. Oceanogr.* 62(4): 1771-1782. <https://dx.doi.org/10.1002/lno.10532>
66. Elling, F.J.; Könneke, M.; Nicol, G.W.; Stieglmeier, M.; Bayer, B.; Spieck, E.; de la Torre, J.R.; Becker, K.W.; Thomm, M.; Prosser, J.I.; Herndl, G.J.; Schleper, C.; Hinrichs, K.-U. (2017). Chemotaxonomic characterisation of the thaumarchaeal lipidome. *Environ. Microbiol.* 19(7): 2681-2700. <https://doi.org/10.1111/1462-2920.13759>
67. Elschot, K.; Vermeulen, A.; Vandenbruwaene, W.; Bakker, J.P.; Bouma, T.J.; Stahl, J.; Castelijns, H.; Temmerman, S. (2017). Top-down vs. bottom-up control on vegetation composition in a tidal marsh depends on scale. *PLoS One* 12(2): e0169960. <https://dx.doi.org/10.1371/journal.pone.0169960>
68. Erdem, Z.; Schönfeld, J. (2017). Pleistocene to Holocene benthic foraminiferal assemblages from the Peruvian continental margin. *Palaeontologia Electronica* 20(2): 35A. <https://doi.org/10.26879/764>
69. Eriksson, B.K.; Westra, J.; van Gerwen, I.; Weerman, E.; van der Heide, T.; van der Zee, E.; van de Koppel, J.; Olf, H.; Piersma, T.; Donadi, S. (2017). Facilitation by ecosystem engineers enhances nutrient effects in an intertidal system. *Ecosphere* 8(12): e02051. <https://dx.doi.org/10.1002/ecs2.2051>
70. Evans, C.; Brandsma, J.; Pond, D.W.; Venables, H.J.; Meredith, M.P.; Witte, H.J.; Stammerjohn, S.; Wilson, W.H.; Clarke, A.; Brussaard, C.P.D. (2017). Drivers of interannual variability in virioplankton abundance at the coastal western Antarctic peninsula and the potential effects of climate change. *Environ. Microbiol.* 19(2): 740-755. <https://dx.doi.org/10.1111/1462-2920.13627>
71. Evans, G.R.; McDonagh, E.L.; King, B.A.; Bryden, H.L.; Bakker, D.C.E.; Brown, P.J.; Schuster, U.; Speer, K.G.; van Heuven, S.M.A.C. (2017). South Atlantic interbasin exchanges of mass, heat, salt and anthropogenic carbon. *Prog. Oceanogr.* 151: 62-82. dx.doi.org/10.1016/j.pocean.2016.11.005
72. Fernand, F.; Israel, A.; Skjermo, J.; Wichard, T.; Timmermans, K. (2017). Offshore macroalgae biomass for bioenergy production: Environmental aspects, technological achievements and challenges. *Renew. Sust. Energ. Rev.* 75: 35-45. <https://dx.doi.org/10.1016/j.rser.2016.10.046>
73. Fernández-García, J.L.; de Ory, A.; Brussaard, C.P.D.; de Vega, M. (2017). Phaeocystis globosa Virus DNA Polymerase X: a “Swiss Army knife”, Multifunctional DNA polymerase-lyase-ligase for Base Excision Repair. *NPG Scientific Reports* 7(1). <https://dx.doi.org/10.1038/s41598-017-07378-3>
74. Ford, D.A.; van der Molen, J.; Hyder, K.; Bacon, J.; Barciela, R.; Creach, V.; McEwan, R.; Ruardij, P.; Forster, R. (2017). Observing and modelling phytoplankton community structure in the North Sea. *Biogeosciences* 14(6): 1419-1444. <https://dx.doi.org/10.5194/bg-14-1419-2017>
75. Frieling, J.; Gebhardt, H.; Huber, M.; Adekeye, O.A.; Akande, S.O.; Reichart, G.-J.; Middelburg, J.J.; Schouten, S.; Sluijs, A. (2017). Extreme warmth and heat-stressed plankton in the tropics during the Paleocene-Eocene Thermal Maximum. *Science Advances* 3(3): e1600891. <https://dx.doi.org/10.1126/sciadv.1600891>



76. Friese, C.A.; van Hateren, J.A.; Vogt, C.; Fischer, G.; Stuur, J.-B.W. (2017). Seasonal provenance changes in present-day Saharan dust collected in and off Mauritania. *Atmos. Chem. Phys.* 17: 10163-10193. <https://dx.doi.org/10.5194/acp-2017-131>
77. Geerts, L.; Cox, T.J.S.; Maris, T.; Wolfstein, K.; Meire, P.; Soetaert, K. (2017). Substrate origin and morphology differentially determine oxygen dynamics in two major European estuaries, the Elbe and the Schelde. *Est., Coast. and Shelf Sci.* 191: 157-170. <https://dx.doi.org/10.1016/j.ecss.2017.04.009>
78. Gerkema, T.; Duran-Matute, M. (2017). Interannual variability of mean sea level and its sensitivity to wind climate in an inter-tidal basin. *Earth System Dynamics* 8(4): 1223-1235. <https://dx.doi.org/10.5194/esd-8-1223-2017>
79. Gerringa, L.J.A.; Slagter, H.A.; Bown, J.; van Haren, H.; Laan, P.; De Baar, H.J.W.; Rijkenberg, M.J.A. (2017). Dissolved Fe and Fe-binding organic ligands in the Mediterranean Sea – GEO-TRACES G04. *Mar. Chem.* 194: 100-113. <https://dx.doi.org/10.1016/j.marchem.2017.05.012>
80. Gillis, L.G.; Belshe, F.E.; Ziegler, A.D.; Bouma, T.J. (2017). Driving forces of organic carbon spatial distribution in the tropical seascape. *J. Sea Res.* 120: 35-40. dx.doi.org/10.1016/j.seares.2016.12.006
81. Gillis, L.G.; Jones, C.G.; Ziegler, A.D.; van der Wal, D.; Breckwoldt, A.; Bouma, T.J. (2017). Opportunities for Protecting and Restoring Tropical Coastal Ecosystems by Utilizing a Physical Connectivity Approach. *Front. Mar. Sci.* 4: 374. <https://doi.org/10.3389/fmars.2017.00374>
82. Glasl, B.; Bongaerts, P.; Elisabeth, N.H.; Hoegh-Guldberg, O.; Herndl, G.J.; Frade, P.R. (2017). Microbiome variation in corals with distinct depth distribution ranges across a shallow-mesophotic gradient (15–85 m). *Coral Reefs* 36(2): 447-452. <https://dx.doi.org/10.1007/s00338-016-1517-x>
83. Gledhill, M.; Gerringa, L.J.A. (2017). The Effect of Metal Concentration on the Parameters Derived from Complexometric Titrations of Trace Elements in Seawater—A Model Study. *Front. Mar. Sci.* 4: 254. <https://dx.doi.org/10.3389/fmars.2017.00254>
84. Goedknecht, M.A.; Havermans, J.; Waser, A.M.; Luttkhuizen, P.C.; Velilla, E.; Camphuysen, C.J.; Van der Meer, J.; Thieltges, D.W. (2017). Cross-species comparison of parasite richness, prevalence, and intensity in a native compared to two invasive brachyuran crabs. *Aquat. Invasions* 12(2): 201-212. <https://doi.org/10.3391/ai.2017.12.2.08>
85. Goedknecht, M.A.; Schuster, A.-K.; Buschbaum, C.; Gergs, R.; Jung, A.; Luttkhuizen, P.C.; Van der Meer, J.; Troost, K.; Wegner, K.M.; Thieltges, D.W. (2017). Spillover but no spillback of two invasive parasitic copepods from invasive Pacific oysters (*Crassostrea gigas*) to native bivalve hosts. *Biological Invasions* 19(1): 365-379. <https://dx.doi.org/10.1007/s10530-016-1285-0>
86. Gollner, S.; Kaiser, S.; Menzel, L.; Jones, D.O.B.; Brown, A.; Mestre, N.C.; Van Oevelen, D.; Menot, L.; Colaço, A.; Canals, M.; Cuvelier, D.; Durden, J.M.; Gebruk, A.; Egho, G.A.; Haeckel, M.; Marcon, Y.; Mevenkamp, L.; Morato, T.; Pham, C.K.; Purser, A.; Sanchez-Vidal, A.; Vanreusel, A.; Vink, A.; Martinez Arbizu, P. (2017). Resilience of benthic deep-sea fauna to mining activities. *Mar. Environ. Res.* 129: 76-101. <https://dx.doi.org/10.1016/j.marenvres.2017.04.010>
87. Goodwin, P.; Haigh, I.D.; Rohling, E.J.; Slangen, A. (2017). A new approach to projecting 21st century sea-level changes and extremes. *Earth's Future* 5(2): 240-253. dx.doi.org/10.1002/2016ef000508
88. Grosse, J.; van Breugel, P.; Brussaard, C.P.D.; Boschker, H.T.S. (2017). A biosynthesis view on nutrient stress in coastal phytoplankton. *Limnol. Oceanogr.* 62(2): 490-506. <https://dx.doi.org/10.1002/lno.10439>



89. Grosse, J.; Burson, A.; Stomp, M.; Huisman, J.; Boschker, H.T.S. (2017). From Ecological Stoichiometry to Biochemical Composition: Variation in N and P Supply Alters Key Biosynthetic Rates in Marine Phytoplankton. *Front. Microbiol.* 8: 1299. <https://dx.doi.org/10.3389/fmicb.2017.01299>
90. Guerreiro, C.V.; Baumann, K.-H.; Brummer, G.-J. A.; Fischer, G.; Korte, L.F.; Merkel, U.; Sá, C.; de Stigter, H.; Stuut, J.-B.W. (2017). Coccolithophore fluxes in the open tropical North Atlantic: influence of thermocline depth, Amazon water, and Saharan dust. *Biogeosciences* 14(20): 4577-4599. <https://dx.doi.org/10.5194/bg-14-4577-2017>
91. Guimarães, P.; Yunes, J.S.; Cretoiu, M.S.; Stal, L.J. (2017). Growth Characteristics of an Estuarine Heterocystous Cyanobacterium. *Front. Microbiol.* 8: 1132. <https://dx.doi.org/10.3389/fmicb.2017.01132>
92. Gutiérrez, J.S.; Rakhimberdiev, E.; Piersma, T.; Thieltges, D.W. (2017). Migration and parasitism: habitat use, not migration distance, influences helminth species richness in Charadriiform birds. *J. Biogeogr.* 44(5): 1137-1147. <https://dx.doi.org/10.1111/jbi.12956>
93. Han, Q.; Soissons, L.M.; Liu, D.; van Katwijk, M.; Bouma, T.J. (2017). Individual and population indicators of *Zostera japonica* respond quickly to experimental addition of sediment-nutrient and organic matter. *Mar. Pollut. Bull.* 114(1): 201-209. dx.doi.org/10.1016/j.marpolbul.2016.08.084
94. Helm, B.; Visser, M.E.; Schwartz, W.; Kronfeld-Schor, N.; Gerkema, M.; Piersma, T.; Bloch, G. (2017). Two sides of a coin: ecological and chronobiological perspectives of timing in the wild. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 372(1734): 20160246. <https://dx.doi.org/10.1098/rstb.2016.0246>
95. Highfield, A.; Joint, I.; Gilbert, J.A.; Crawford, K.J.; Schroeder, D.C. (2017). Change in *Emiliana huxleyi* Virus Assemblage Diversity but Not in Host Genetic Composition during an Ocean Acidification Mesocosm Experiment. *Viruses* 9(3): 41. <https://dx.doi.org/10.3390/v9030041>
96. Holding, J.M.; Duarte, C.M.; Delgado-Huertas, A.; Soetaert, K.; Vonk, J.E.; Agusti, S.; Wasmann, P.; Middelburg, J. (2017). Autochthonous and allochthonous contributions of organic carbon to microbial food webs in Svalbard fjords. *Limnol. Oceanogr.* 62(3): 1307-1323. <https://dx.doi.org/10.1002/lno.10526>
97. Holtvoeth, J.; Vogel, H.; Valsecchi, V.; Lindhorst, K.; Schouten, S.; Wagner, B.; Wolff, G.A. (2017). Linear and non-linear responses of vegetation and soils to glacial-interglacial climate change in a Mediterranean refuge. *NPG Scientific Reports* 7(1): 7. <https://dx.doi.org/10.1038/s41598-017-08101-y>
98. Hoppe, C.J.M.; Klaas, C.; Ossebaar, S.; Soppa, M.A.; Cheah, W.; Laglera, L.M.; Santos-Echeandia, J.; Rost, B.; Wolf-Gladrow, D.A.; Bracher, A.; Hoppema, M.; Strass, V. (2017). Controls of primary production in two phytoplankton blooms in the Antarctic Circumpolar Current. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 139: 63–73. <https://dx.doi.org/10.1016/j.dsr2.2015.10.005>
99. Hornick, T.; Bach, L.T.; Crawford, K.J.; Spilling, K.; Achterberg, E.P.; Woodhouse, J.N.; Schulz, K.G.; Brussaard, C.P.D.; Riebesell, U.; Grossart, H.-P. (2017). Ocean acidification impacts bacteria – phytoplankton coupling at low-nutrient conditions. *Biogeosciences* 14(1): 1-15. dx.doi.org/10.5194/bg-14-1-2017
100. Hossain, M.; Stewart, T.J.; Arhonditsis, G.B.; Van Oevelen, D.; Minns, C.K.; Koops, M.A. (2017). Uncertainty assessment of trophic flows in Hamilton Harbour : A linear inverse modelling analysis. *Aquat. Ecosyst. Health Manag.* 20(3): 265-277. <https://dx.doi.org/10.1080/14634988.2017.1342517>



101. Howison, R.A.; Oloff, H.; van de Koppel, J.; Smit, C. (2017). Biotically driven vegetation mosaics in grazing ecosystems: the battle between bioturbation and biocompaction. *Ecol. Monogr.* 87(3): 363-378. <https://dx.doi.org/10.1002/ecm.1259>
102. Hu, Z.; Yao, P.; van der Wal, D.; Bouma, T.J. (2017). Patterns and drivers of daily bed-level dynamics on two tidal flats with contrasting wave exposure. *NPG Scientific Reports* 7(1): 9 pp. <https://dx.doi.org/10.1038/s41598-017-07515-y>
103. Hufnagl, M.; Payne, M.; Lacroix, G.; Bolle, L.J.; Daewel, U.; Dickey-Collas, M.; Gerkema, T.; Huret, M.; Janssen, F.; Kreuz, M.; Pätsch, J.; Pohlmann, T.; Ruardij, P.; Schrum, C.; Skogen, M.D.; Tiessen, M.C.H.; Petitgas, P.; van Beek, J.K.L.; van der Veer, H.W.; Callies, U. (2017). Variation that can be expected when using particle tracking models in connectivity studies. *J. Sea Res.* 127: 133-149. <https://dx.doi.org/10.1016/j.seares.2017.04.009>
104. Hummel, C.; Provenzale, A.; Van der Meer, J.; Wijnhoven, S.; Nolte, A.; Poursanidis, D.; Janss, G.; Jurek, M.; Andresen, M.; Poulin, B.; Kobler, J.; Beierkuhnlein, C.; Honrado, J.; Razinkovas, A.; Strith, A.; Bargmann, T.; Ziemba, A.; Bonet-García, F.; Adamescu, M.C.; Janssen, G.; Hummel, H. (2017). Ecosystem services in European protected areas: Ambiguity in the views of scientists and managers? *PLoS One* 12(11): e0187143. <https://dx.doi.org/10.1371/journal.pone.0187143>
105. Hummel, H.; van Avesaath, P.; Wijnhoven, S.; Kleine-Schaars, L.; Degraer, S.; Kerckhof, F.; Bojanic, N.; Skejic, S.; Vidjak, O.; Rousou, M.; Orav-Kotta, H.; Kotta, J.; Jourde, J.; Pedrotti, M.L.; Leclerc, J.-C.; Simon, N.; Rigaut-Jalabert, F.; Bachelet, G.; Lavesque, N.; Arvanitidis, C.; Pavloudi, C.; Faulwetter, S.; Crowe, T.; Coughlan, J.; Benedetti-Cecchi, L.; dal Bello, M.; Magni, P.; Como, S.; Coppa, S.; Ikauniece, A.; Ruginis, T.; Jankowska, E.; Weslawski, J.M.; Warzocha, J.; Gromisz, S.; Witalis, B.; Silva, T.; Ribeiro, P.; De Matos, V.K.F.; Sousa-Pinto, I.; Veiga, P.; Troncoso, J.; Guinda, X.; De La Pena, J.A.J.; Puente, A.; Espinosa, F.; Pérez-Ruzafa, A.; Frost, M.; McNeill, C.L.; Peleg, O.; Rilov, G. (2017). Geographic patterns of biodiversity in European coastal marine benthos. *J. Mar. Biol. Ass. U.K.* 97(3): 507-523. <https://dx.doi.org/10.1017/S0025315416001119>
106. Jaramillo, C.; Romero, I.; D'Apolito, C.; Bayona, G.; Duarte, E.; Louwye, S.; Escobar, J.; Luque, J.; Carrillo-Briceño, J.D.; Zapata, V.; Mora, A.; Schouten, S.; Zavada, M.; Harrington, G.; Ortiz, J.; Wesselingh, F.P. (2017). Miocene flooding events of western Amazonia. *Science Advances* 3(5): e1601693. <https://dx.doi.org/10.1126/sciadv.1601693>
107. Jones, D.O.B.; Kaiser, S.; Sweetman, A.K.; Smith, C.R.; Menot, L.; Vink, A.; Trueblood, D.; Greinert, J.; Billett, D.S.M.; Martínez Arbizu, P.; Radziejewska, T.; Singh, R.; Ingole, B.; Stratmann, T.; Simon-Lledó, E.; Durden, J.M.; Clack, M.R. (2017). Biological responses to disturbance from simulated deep-sea polymetallic nodule mining. *PLoS One* 12(2): e0171750. <http://dx.doi.org/10.1371/journal.pone.0171750>
108. Jones, E.M.; Hoppema, M.; Strass, V.; Hauck, J.; Salt, L.; Ossebaar, S.; Klaas, C.; van Heuven, S.; Wolf-Gladrow, D.; Stöven, T.; de Baar, H.J.W. (2017). Mesoscale features create hotspots of carbon uptake in the Antarctic Circumpolar Current. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 138: 39-51. <https://dx.doi.org/10.1016/j.dsr2.2015.10.006>
109. Jones, E.M.; Fenton, M.; Meredith, M.P.; Clargo, N.M.; Ossebaar, S.; Ducklow, H.W.; Venables, H.J.; De Baar, H.J.W. (2017). Ocean acidification and calcium carbonate saturation states in the coastal zone of the West Antarctic Peninsula. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 139: 181-194. <https://dx.doi.org/10.1016/j.dsr2.2017.01.007>
110. Jouta, J.; Dietz, M.W.; Reneerkens, J.; Piersma, T.; Rakhimberdiev, E.; Hallgrimsson, G.T.; Pen, I. (2017). Ecological forensics: using single point stable isotope values to infer seasonal schedules of animals after two diet switches. *Methods Ecol. Evol.* 8: 492-500. <https://dx.doi.org/10.1111/2041-210X.12695>



111. Jung, A.S.; Brinkman, A.G.; Folmer, E.O.; Herman, P.M.J.; van der Veer, H.W.; Philippart, C.J.M. (2017). Long-term trends in nutrient budgets of the western Dutch Wadden Sea (1976–2012). *J. Sea Res.* 127: 82-94. <https://dx.doi.org/10.1016/j.seares.2017.02.007>
112. Jung, A.S.; Dekker, R.; Germain, M.; Philippart, C.J.M.; Witte, J.I.J.; van der Veer, H.W. (2017). Long-term shifts in intertidal predator and prey communities in the Wadden Sea and consequences for food requirements and supply. *Mar. Ecol. Prog. Ser.* 579: 37-53. <https://dx.doi.org/10.3354/meps12263>
113. Jung, A.S.; Bijkerk, R.; van der Veer, H.W.; Philippart, C.J.M. (2017). Spatial and temporal trends in order richness of marine phytoplankton as a tracer for the exchange zone between coastal and open waters. *J. Mar. Biol. Ass. U.K.* 97(3): 477-489. <https://dx.doi.org/10.1017/S0025315416001326>
114. Kaiser, J.; van der Meer, M.T.J.; Arz, H.W. (2017). Long-chain alkenones in Baltic Sea surface sediments: New insights. *Org. Geochem.* 112: 93-104. <https://hdl.handle.net/10.1016/j.orggeochem.2017.07.002>
115. Kandiano, E.S.; van der Meer, M.T.J.; Schouten, S.; Fahl, K.; Sinninghe Damsté, J.S.; Bauch, H.A. (2017). Response of the North Atlantic surface and intermediate ocean structure to climate warming of MIS 11. *NPG Scientific Reports* 7: 46192. <https://dx.doi.org/10.1038/srep46192>
116. Kasson, P.; DiMaio, F.; Yu, X.; Lucas-Staat, S.; Krupovic, M.; Schouten, S.; Prangishvili, D.; Egelman, E.H. (2017). Model for a novel membrane envelope in a filamentous hyperthermophilic virus. *eLIFE* 6: e26268. <https://dx.doi.org/10.7554/eLife.26268.001>
117. Kentie, R.; Marquez-Ferrando, R.; Figuerola, J.; Gangoso, L.; Hooijmeijer, C.E.W.; Loonstra, A.H.J.; Robin, F.; Sarasa, M.; Senner, N.; Valkema, H.; Verhoeven, M.A.; Piersma, T. (2017). Does wintering north or south of the Sahara correlate with timing and breeding performance in black-tailed godwits? *Ecol. Evol.* 7(8): 2812-2820. <https://dx.doi.org/10.1002/ece3.2879>
118. Keul, N.; Langer, G.; Thoms, S.; de Nooijer, L.J.; Reichart, G.-J.; Bijma, J. (2017). Exploring foraminiferal Sr/Ca as a new carbonate system proxy. *Geochim. Cosmochim. Acta* 314: 374-386. <https://dx.doi.org/10.1016/j.gca.2016.11.022>
119. Kim, J.J.; Marjerrison, C.E.; Cornish Shartau, S.L.; Brady, A.L.; Sharp, C.E.; Rijpstra, W.I.C.; Sinninghe Damsté, J.S.; Schumann, P.; Grasby, S.E.; Dunfield, P.F. (2017). *Actinocrinis puniceicyclus* gen. nov., sp nov., an actinobacterium isolated from an acidic spring. *Int. J. Syst. Evol. Microbiol.* 67(3): 602-609. <https://dx.doi.org/10.1099/ijsem.0.001667>
120. Kloosterziel, R.C.; Maas, L.R.M. (2017). Green's functions for Rossby waves. *J. Fluid Mech.* 830: 387-407. <https://dx.doi.org/10.1017/jfm.2017.601>
121. Koho, K.A.; de Nooijer, L.J.; Fontanier, C.; Toyofuku, T.; Oguri, K.; Kitazato, H.; Reichart, G.-J. (2017). Benthic foraminiferal Mn / Ca ratios reflect microhabitat preferences. *Biogeosciences* 14(12): 3067-3082. <https://dx.doi.org/10.5194/bg-14-3067-2017>
122. Korte, L.F.; Brummer, G.-J. A.; van der Does, M.; Guerreiro, C.V.; Hennekam, R.; van Hateren, J.A.; Jong, D.; Munday, C.I.; Schouten, S.; Stuut, J-B W. (2017). Downward particle fluxes of biogenic matter and Saharan dust across the equatorial North Atlantic. *Atmos. Chem. Phys.* 17(9): 6023-6040. <https://dx.doi.org/10.5194/acp-17-6023-2017>
123. Köstner, N.; Scharnreitner, L.; Jürgens, K.; Labrenz, M.; Herndl, G.J.; Winter, C. (2017). High viral abundance as a consequence of low viral decay in the Baltic Sea redoxcline. *PLoS One* 12(6): e0178467. <https://hdl.handle.net/10.1371/journal.pone.0178467>
124. Kotta, J.; Orav-Kotta, H.; Holger, J.; Hummel, H.; Arvanitidis, C.; van Avesaath, P.; Bachelet, G.; Benedetti-Cecchi, L.; Bojanić, N.; Como, S.; Coppa, S.; Coughlan, J.; Crowe, T.; dal Bello, M.; Degraer, S.; De La Pena, J.A.J.; De Matos, V.K.F.; Espinosa, F.; Faulwetter, S.; Frost, M.;



- Guinda, X.; Jankowska, E.; Jourde, J.; Kerckhof, F.; Lavesque, N.; Leclerc, J.-C.; Magni, P.; Pavloudi, C.; Pedrotti, M.L.; Peleg, O.; Pérez-Ruzafa, A.; Puente, A.; Ribeiro, P.; Rilov, G.; Rousou, M.; Ruginis, T.; Silva, T.; Simon, N.; Sousa-Pinto, I.; Troncoso, J.; Warzocha, J.; We-slowski, J.M. (2017). Essence of the patterns of cover and richness of intertidal hard bottom communities: a pan-European study. *J. Mar. Biol. Ass. U.K.* 97(3): 525-538. <https://dx.doi.org/10.1017/S0025315416001351>
125. Kronfeld-Schor, N.; Visser, M.E.; Salis, L.; van Gils, J.A. (2017). Chronobiology of interspecific interactions in a changing world. *Phil. Trans. R. Soc. Lond. (B Biol. Sci.)* 372(1734): 20160248. <https://dx.doi.org/10.1098/rstb.2016.0248>
126. Kühnel, R.A.; Van der Gaast, S.J.; Broekmans, M.A.T.M.; Theng, B.K.G. (2017). Wetting-induced layer contraction in illite and mica-family relatives. *Applied Clay Science* 135: 226–233. dx.doi.org/10.1016/j.clay.2016.09.027
127. Kulichevskaya, I.S.; Ivanova, A.; Baulina, O.I.; Rijpstra, W.I.C.; Sinninghe Damsté, J.S.; Dedysh, S.N. (2017). *Fimbrioglobus ruber* gen. nov., sp. nov., a Gemmata-like planctomycete from Sphagnum peat bog and the proposal of Gemmataceae fam. nov. *Int. J. Syst. Evol. Microbiol.* 67: 218–224. <https://dx.doi.org/10.1099/ijsem.0.001598>
128. Kulichevskaya, I.S.; Ivanova, A.A.; Detkova, E.N.; Rijpstra, W.I.C.; Sinninghe Damsté, J.S.; Dedysh, S.N. (2017). *Tundrisphaera lichenicola* gen. nov., sp. nov., a psychrotolerant representative of the family Isosphaeraceae from lichen-dominated tundra soils. *Int. J. Syst. Evol. Microbiol.* 67(9): 3583-3589. <https://dx.doi.org/10.1099/ijsem.0.002172>
129. Lammers, J.M.; Schubert, C.J.; Middelburg, J.J.; Reichart, G.J. (2017). Microbial carbon processing in oligotrophic Lake Lucerne (Switzerland): results of in situ ¹³C-labelling studies. *Biogeochemistry* 136(2): 131-149. <https://dx.doi.org/10.1007/s10533-017-0389-7>
130. Lammers, J.M.; Reichart, G.J.; Middelburg, J.J. (2017). Seasonal variability in phytoplankton stable carbon isotope ratios and bacterial carbon sources in a shallow Dutch lake. *Limnol. Oceanogr.* 62(6): 2773-2787. <https://dx.doi.org/10.1002/lno.10605>
131. Landry, Z.; Swan, B.K.; Herndl, G.J.; Stepanauskas, R.; Giovannonia, S.J. (2017). SAR202 Genomes from the Dark Ocean Predict Pathways for the Oxidation of Recalcitrant Dissolved Organic Matter. *Mbio* 8(2): e00413-17. <https://dx.doi.org/10.1128/mBio.00413-17>
132. Lattaud, J.; Dorhout, D.; Schulz, H.; Castañeda, I.S.; Schefuß, E.; Sinninghe Damsté, J.S.; Schouten, S. (2017). The C32 alkane-1,15-diol as a proxy of late Quaternary riverine input in coastal margins. *Clim. Past* 13(8): 1049-1061. <https://doi.org/10.5194/cp-13-1049-2017>
133. Lattaud, J.; Kim, J.-H.; de Jonge, C.; Zell, C.; Sinninghe Damsté, J.S.; Schouten, S. (2017). The C32 alkane-1,15-diol as a tracer for riverine input in coastal seas. *Geochim. Cosmochim. Acta* 202: 146-158. <https://dx.doi.org/10.1016/j.gca.2016.12.030>
134. Lavaley, M.; Duineveld, G.; Bergman, M.; van den Beld, I. (2017). Long-term baited lander experiments at a cold-water coral community on Galway Mound (Belgica Mound Province, NE Atlantic). *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 145: 22-32. <https://dx.doi.org/10.1016/j.dsr2.2015.12.014>
135. Le Coz, M.; Chambord, S.; Meire, P.; Maris, T.; Azémar, F.; Ovaert, J.; Buffan-Dubau, E.; Kromkamp, J.C.; Sossou, A.C.; Prygiel, J.; Spronk, G.; Lamothe, S.; Ouddane, B.; Rabodonirina, S.; Net, S.; Dumoulin, D.; Peene, J.; Souissi, S.; Tackx, M.; Sossou, A.C. (2017). Test of some ecological concepts on the longitudinal distribution of zooplankton along a lowland water course. *Hydrobiologia* 802(1): 175–198. <https://dx.doi.org/10.1007/s10750-017-3256-6>
136. le Cozannet, G.; Nicholls, R.J.; Hinkel, J.; Sweet, W.V.; McInnes, K.L.; Van de Wal, R.S.E.; Slan-gen, A.B.A.; Lowe, J.A.; White, K.D. (2017). Sea Level Change and Coastal Climate Services: The Way Forward. *J. Mar. Sci. Eng.* 5(4): 49. <https://dx.doi.org/10.3390/jmse5040049>

137. Le Guitton, M.; Soetaert, K.; Sinninghe Damsté, J.S.; Middelburg, J.J. (2017). A seasonal study of particulate organic matter composition and quality along an offshore transect in the southern North Sea. *Est., Coast. and Shelf Sci.* 188: 1-11. <https://dx.doi.org/10.1016/j.ecss.2017.02.002>
138. Li, B.; Li, X.; Bouma, T.J.; Soissons, L.M.; Cozzoli, F.; Wang, Q.; Zhou, Z.; Chen, L. (2017). Analysis of macrobenthic assemblages and ecological health of Yellow River Delta, China, using AMBI & M-AMBI assessment method. *Mar. Pollut. Bull.* 119(2): 23-32. <https://dx.doi.org/10.1016/j.marpolbul.2017.03.044>
139. Li, B.; Cozzoli, F.; Soissons, L.M.; Bouma, T.J.; Chen, L. (2017). Effects of bioturbation on the erodibility of cohesive versus non-cohesive sediments along a current-velocity gradient: A case study on cockles. *J. Exp. Mar. Biol. Ecol.* 496: 84-90. <https://dx.doi.org/10.1016/j.jembe.2017.08.002>
140. Liddell, C.; Welsh, J.E.; Van der Meer, J.; Thieltges, D.W. (2017). Effect of dose and frequency of exposure to infectious stages on trematode infection intensity and success in mussels. *Dis. Aquat. Org.* 125(2): 85-92. <https://dx.doi.org/10.3354/dao03133>
141. LIGO Scientific Collaboration and Virgo Collaboration; Fermi GBM; INTEGRAL; IceCube Collaboration; AstroSat Cadmium Zinc Telluride Imager Team; IPN Collaboration; The Insight-HXMT Collaboration; ANTARES Collaboration (van Haren, H.); The Swift Collaboration; AGILE Team; The 1M2H Team; The Dark Energy Camera GW-EM Collaboration and the DES Collaboration; The DLT40 Collaboration; GRAWITA: GRAvitational Wave Inaf TeAm; The Fermi Large Area Telescope Collaboration; ATCA: Australia Telescope Compact Array; ASKAP: Australian SKA Path finder; Las Cumbres Observatory Group; OzGrav; DWF (Deeper, Wider, Faster Program); AST3; CAASTRO Collaborations; The VINROUGE Collaboration; MASTER Collaboration; J-GEM; GROWTH; JAGWAR; Caltech- NRAO; TTU-NRAO; NuSTAR Collaborations; Pan-STARR; The MAXI Team; TZAC Consortium; KU Collaboration; Nordic Optical Telescope; ePESSTO; GROND; Texas Tech University; SALT Group; TOROS: Transient Robotic Observatory of the South Collaboration; The BOOTES Collaboration; MWA: Murchison Wide field Array; The CALET Collaboration; IKI-GW Follow-up Collaboration; H.E.S.S. Collaboration; LOFAR Collaboration; LWA: Long Wavelength Array; HAWC Collaboration; The Pierre Auger Collaboration; ALMA Collaboration; Euro VLBI Team; Pi of the Sky Collaboration; The Chandra Team at McGill University; DFN: Desert Fireball Network; ATLAS; High Time Resolution Universe Survey; RIMAS and RATIR; SKA South Africa / MeerKAT (2017). Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophys. J. Lett.* 848(2): L12. <https://dx.doi.org/10.3847/2041-8213/aa91c9>
142. Linley, T.D.; Lavaleye, M.; Maiorano, P.; Bergman, M.; Capezzuto, F.; Cousins, N.J.; D'Onghia, G.; Duineveld, G.; Shields, M.A.; Sion, L.; Tursi, A.; Priede, I.G. (2017). Effects of cold-water corals on fish diversity and density (European continental margin: Arctic, NE Atlantic and Mediterranean Sea): Data from three baited lander systems. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 145: 8-21. <https://dx.doi.org/10.1016/j.dsr2.2015.12.003>
143. Lipsewers, Y.A.; Vasquez Cardenas, D.; Seitaj, D.; Schauer, R.; Hidalgo-Martinez, S.; Sinninghe Damsté, J.S.; Meysman, F.J.R.; Villanueva, L.; Boschker, H.T.S. (2017). Impact of seasonal hypoxia on activity and community structure of chemolithoautotrophic bacteria in a coastal sediment. *Appl. Environ. Microbiol.* 83(10): e03517-16. <https://dx.doi.org/10.1128/aem.03517-16>
144. Lo, V.B.; Bouma, T.J.; van Belzen, J.; Van Colen, C.; Airoldi, L. (2017). Interactive effects of vegetation and sediment properties on erosion of salt marshes in the Northern Adriatic Sea. *Mar. Environ. Res.* 131: 32-42. <https://doi.org/10.1016/j.marenvres.2017.09.006>



145. Lok, T.; Veldhoen, L.; Overdijk, O.; Tinbergen, J.M.; Piersma, T. (2017). An age-dependent fitness cost of migration? Old trans-Saharan migrating spoonbills breed later than those staying in Europe, and late breeders have lower recruitment. *J. Anim. Ecol.* 86(5): 998-1009. <https://dx.doi.org/10.1111/1365-2656.12706>
146. Loke, L.H.L.; Bouma, T.J.; Todd, P.A. (2017). The effects of manipulating microhabitat size and variability on tropical seawall biodiversity: field and flume experiments. *J. Exp. Mar. Biol. Ecol.* 492: 113-120. <https://dx.doi.org/10.1016/j.jembe.2017.01.024>
147. Loomis, S.E.; Russell, J.M.; Verschuren, D.; Morrill, C.; De Cort, G.; Sinninghe Damsté, J.S.; Olago, D.; Eggermont, H.; Street-Perrott, F.A.; Kelly, M.A. (2017). The tropical lapse rate steepened during the Last Glacial Maximum. *Science Advances* 3(1): e1600815. dx.doi.org/10.1126/sciadv.1600815
148. Lorscheid, T; Stocchi, P.; Casella, E.; Gómez-Pujolf, L.; Vacchi, M.; Mann, T.; Rovere, A. (2017). Paleo sea-level changes and relative sea-level indicators: Precise measurements, indicative meaning and glacial isostatic adjustment perspectives from Mallorca (Western Mediterranean). *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 473: 94–107. <https://dx.doi.org/10.1016/j.palaeo.2017.02.028>
149. Lorscheid, T; Felis, T.; Stocchi, P.; Obert, J.C.; Scholz, D.; Rovere, A. (2017). Tides in the Last Interglacial: insights from notch geometry and palaeo tidal models in Bonaire, Netherland Antilles. *NPG Scientific Reports* 7(1): 16241. <https://dx.doi.org/10.1038/s41598-017-16285-6>
150. Lourenço, P.M.; Catry, T.; Lopes, R.J.; Piersma, T.; Granadeiro, J.P. (2017). Invisible trophic links? Quantifying the importance of non-standard food sources for key intertidal avian predators in the Eastern Atlantic. *Mar. Ecol. Prog. Ser.* 563: 219–232. dx.doi.org/10.3354/meps11979
151. Lozier, M.S.; Bacon, S.; Bower, A.S.; Cunningham, S.A.; de Jong, M.F.; de Steur, L.; de Young, B.; Fischer, J.; Gary, S.F.; Greenan, B.J.W.; Heimbach, P.; Holliday, N.P.; Houpert, L.; Inall, M.E.; Johns, W.E.; Johnson, H.L.; Karstensen, J.; Li, F.; Lin, X.; Mackay, N.; Marshall, D.P.; Mercier, H.; Myers, P.G.; Pickart, R.S.; Pillar, H.R.; Straneo, F.; Thierry, V.; Weller, R.A.; Williams, R.G.; Wilson, C.; Yang, J.; Zhao, J.; Zika, J.D. (2017). Overturning in the Subpolar North Atlantic Program : a new international ocean observing system. *Bull. Am. Meteorol. Soc.* 98(4): 737-752. <https://dx.doi.org/10.1175/BAMS-D-16-0057.1>
152. Lubsch, A.; Timmermans, K. (2017). Texture analysis of *Laminaria digitata* (Phaeophyceae) thallus reveals trade-off between tissue tensile strength and toughness along lamina. *Bot. Mar.* 60(2). <https://doi.org/10.1515/bot-2016-0075>
153. Luria, C.M.; Amaral-Zettler, L.A.; Ducklow, H.W.; Repeta, D.J.; Rhyne, A.L.; Rich, J.J. (2017). Seasonal Shifts in Bacterial Community Responses to Phytoplankton-Derived Dissolved Organic Matter in the Western Antarctic Peninsula. *Front. Microbiol.* 8: 2117. <https://dx.doi.org/10.3389/fmicb.2017.02117>
154. Maat, D.S.; Biggs, T.; Evans, C.; van Bleijswijk, J.D.L.; van der Wel, N.; Dutilh, B.E.; Brussaard, C.P.D. (2017). Characterization and Temperature Dependence of Arctic *Micromonas polaris* Viruses. *Viruses* 9(6): 134. <https://dx.doi.org/10.3390/v9060134>
155. Masero, J.A.; Abad-Gómez, J.M.; Gutiérrez, J.S.; Santiago-Quesada, F.; Senner, N.R.; Sánchez-Guzmán, J.M.; Piersma, T.; Schroeder, J.; Amat, J.A.; Villegas, A. (2017). Wetland salinity induces sex-dependent carry-over effects on the individual performance of a long-distance migrant. *NPG Scientific Reports* 7(1): 6867. <https://dx.doi.org/10.1038/s41598-017-07258-w>
156. Mathot, K.J.; Dekinga, A.; Piersma, T. (2017). An experimental test of state–behaviour feedbacks: gizzard mass and foraging behaviour in red knots. *Funct. Ecol.* 31(5): 1111-1121. <https://dx.doi.org/10.1111/1365-2435.12827>



157. Maugendre, L.; Gattuso, J.-P.; de Kluijver, A.; Soetaert, K.; van Oevelen, D.; Middelburg, J.J.; Gazeau, F. (2017). Carbon-13 labelling shows no effect of ocean acidification on carbon transfer in Mediterranean plankton communities. *Est., Coast. and Shelf Sci.* 186(Part A): 100-111. [dx.doi.org/10.1016/j.ecss.2015.12.018](https://doi.org/10.1016/j.ecss.2015.12.018)
158. Maxwell, P.S.; Eklöf, J.S.; van Katwijk, M.M.; O'Brien, K.R.; de la Torre-Castro, M.; Boström, C.; Bouma, T.J.; Krause-Jensen, D.; Unsworth, R.K.F.; van Tussenbroek, B.I.; van der Heide, T. (2017). The fundamental role of ecological feedback mechanisms for the adaptive management of seagrass ecosystems - a review. *Biol. Rev.* 92(3): 1521-1538. <https://doi.org/10.1111/brv.12294>
159. Meire, L.; Mortensen, J.; Meire, P.; Juul-Pedersen, T.; Sejr, M.K.; Rysgaard, S.; Nygaard, R.; Huybrechts, P.; Meysman, F.J.R. (2017). Marine-terminating glaciers sustain high productivity in Greenland fjords. *Glob. Chang. Biol.* 23(12): 5344-5357. <https://dx.doi.org/10.1111/gcb.13801>
160. Mevenkamp, L.; Stratmann, T.; Guilini, K.; Moodley, L.; Van Oevelen, D.; Vanreusel, A.; West-erlund, S.; Sweetman, A.K. (2017). Impaired short-term functioning of a benthic community from a deep Norwegian Fjord following deposition of mine tailings and sediments. *Front. Mar. Sci.* 4(169): 1-16. <https://dx.doi.org/10.3389/fmars.2017.00169>
161. Meysman, F.J.R.; Montserrat, F. (2017). Negative CO₂ emissions via enhanced sili-cate weathering in coastal environments. *Biol. Lett.* 13(4): 20160905. <https://dx.doi.org/10.1098/rsbl.2016.0905>
162. Meyssignac, B.; Slangen, A.B.A.; Melet, A.; Church, J.A.; Fettweis, X.; Marzeion, B.; Agosta, C.; Ligtenberg, S.R.M.; Spada, G.; Richter, K.; Palmer, M.D.; Roberts, C.D.; Champollion, N. (2017). Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. *J. Clim.* 30(21): 8565–8593. <https://dx.doi.org/10.1175/jcli-d-17-0112.1>
163. Middelboe, M.; Brussaard, C.P.D. (2017). Marine Viruses: Key Players in Marine Ecosystems. *Viruses* 9(12): 302. <https://dx.doi.org/10.3390/v9100302>
164. Milano, S.; Schöne, B.R.; Witbaard, R. (2017). Changes of shell microstructural characteris-tics of *Cerastoderma edule* (Bivalvia) — A novel proxy for water temperature. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 465: 395-406. [dx.doi.org/10.1016/j.palaeo.2015.09.051](https://doi.org/10.1016/j.palaeo.2015.09.051)
165. Milano, S.; Nehrke, G.; Wanamaker, A.D.; Ballesta-Artero, I.; Brey, T.; Schöne, B.R. (2017). The effects of environment on *Arctica islandica* shell formation and architecture. *Biogeosci-ences* 14(6): 1577-1591. <https://dx.doi.org/10.5194/bg-14-1577-2017>. <https://hdl.handle.net/10.5194/bg-14-1577-2017>
166. Miller, C.S.; Peterse, F.; Da Silva, A.-C.; Baranyi, V.; Reichart, G.J.; Kürschner, W.M. (2017). Astronomical age constraints and extinction mechanisms of the Late Triassic Carnian crisis. *NPG Scientific Reports* 7: 2557. <https://dx.doi.org/10.1038/s41598-017-02817-7>
167. Montserrat, F.; Renforth, P.; Hartmann, J.; Leermakers, M.; Knops, P.; Meysman, F.J.R. (2017). Olivine dissolution in seawater: implications for CO₂ sequestration through en-hanced weathering in coastal environments. *Environ. Sci. Technol.* 51(7): 3960-3972. <https://dx.doi.org/10.1021/acs.est.6b05942>
168. Morales, C.; Rogov, M.; Wierzbowski, H.; Ershova, V.; Suan, G.; Adatte, T.; Föllmi, K.B.; Tege-laar, E.; Reichart, G.-J.; de Lange, G.J.; Middelburg, J.J.; van de Schootbrugge, B. (2017). Glendonites track methane seepage in Mesozoic polar seas. *Geology (Boulder Colo.)* 45(6): 503-506. <https://doi.org/10.1130/G38967.1>
169. Moreira, S.; Costa, P.J.M.; Andrade, C.; Ponte Lira, C.; Freitas, M.C.; Oliveira, M.A.; Reichart, G.-J. (2017). High resolution geochemical and grain-size analysis of the AD 1755 tsunami deposit: Insights into the inland extent and inundation phases. *Mar. Geol.* 390: 94-105. <https://dx.doi.org/10.1016/j.margeo.2017.04.007>



170. Mueller, B.; Meesters, E.H.; van Duyl, F.C. (2017). DOC concentrations across a depth-dependent light gradient on a Caribbean coral reef. *PeerJ* 5: e3456. <https://dx.doi.org/10.7717/peerj.3456>
171. Naghoni, A.; Emtiazi, G.; Amoozegar, M.A.; Cretoiu, M.S.; Stal, L.J.; Etemadifar, Z.; Shahzadeh Fazeli, S.A.; Bolhuis, H. (2017). Microbial diversity in the hypersaline Lake Meyghan, Iran. *NPG Scientific Reports* 7(1): 11522. <https://dx.doi.org/10.1038/s41598-017-11585-3>
172. Nauw, J.; Philippart, C.J.M.; Duran-Matute, M.; Gerkema, T. (2017). Estimates of exposure times in the Wadden Sea : A comparison of methods. *J. Sea Res.* 127: 12-25. <https://dx.doi.org/10.1016/j.seares.2017.03.015>
173. Nierop, K.G.J.; Reichart, G.-J.; Veld, H.; Sinninghe Damsté, J.S. (2017). The influence of oxygen exposure time on the composition of macromolecular organic matter as revealed by surface sediments on the Murray Ridge (Arabian Sea). *Geochim. Cosmochim. Acta* 206: 40-56. dx.doi.org/10.1016/j.gca.2017.02.032
174. O'Brien, C.L.; Robinson, S.A.; Pancost, R.D.; Sinninghe Damsté, J.S.; Schouten, S.; Lunt, D.J.; Alsenz, H.; Bornemann, A.; Bottini, C.; Brassell, S.C.; Farnsworth, A.; Forster, A.; Huber, B.T.; Inglis, G.N.; Jenkyns, H.C.; Linnert, C.; Littler, K.; Markwick, P.; McAnena, A.; Mutterlose, J.; Naafs, B.D.A.; Püttmann, W.; Sluijs, A.; van Helmond, N.A.G.M.; Vellekoop, J.; Wagner, T.; Wrobel, N.E. (2017). Cretaceous sea-surface temperature evolution: Constraints from TEX86 and planktonic foraminiferal oxygen isotopes. *Earth-Sci. Rev.* 172: 224-247. <https://dx.doi.org/10.1016/j.earscirev.2017.07.012>
175. Onrust, B.; Bidarra, B.; Rooseboom, R.; van de Koppel, J. (2017). Ecologically Sound Procedural Generation of Natural Environments. *International Journal of Computer Games Technology* 2017: 7057141. <https://dx.doi.org/10.1155/2017/7057141>
176. Onrust, J.; Loonstra, A.H.J.; Schmaltz, L.E.; Verkuil, Y.I.; Hooijmeijer, J.C.E.W.; Piersma, T. (2017). Detection of earthworm prey by Ruff *Philomachus pugnax*. *Ibis* 159(3): 647-656. <https://dx.doi.org/10.1111/ibi.12467>
177. Onrust, J.; Piersma, T. (2017). The Hungry Worm Feeds the Bird. *Ardea* 105(2): 153-161. <https://dx.doi.org/10.5253/arde.v105i2.a4>
178. Osborne, K.A.; Gray, N.D.; Sherry, A.; Leary, P.; Mejeha, O.; Bischoff, J.; Rush, D.; Sidgwick, F.R.; Birgel, D.; Kalyuzhnaya, M.; Talbot, H.M. (2017). Methanotroph-derived bacteriohopanepolyol signatures as a function of temperature related growth, survival, cell death and preservation in the geological record. *Environmental Microbiology Reports* 9(5): 492-500. <https://doi.org/10.1111/1758-2229.12570>
179. Oudman, T.; de Goeij, P.; Piersma, T.; Lok, T. (2017). Colony-Breeding Eurasian Spoonbills in the Netherlands: Local Limits to Population Growth with Expansion into New Areas. *Ardea* 105(2): 113-124. <https://dx.doi.org/10.5253/arde.v105i2.a2>
180. Pachiadaki, M.G.; Sintès, E.; Bergauer, K.; Brown, J.M.; Record, N.R.; Swan, B.K.; Mathyer, M.E.; Hallam, S.J.; López-García, P.; Takaki, Y.; Nunoura, T.; Woyke, T.; Herndl, G.J.; Stepanauskas, R. (2017). Major role of nitrite-oxidizing bacteria in dark ocean carbon fixation. *Science (Wash.)* 358(6366): 1046-1051. <https://hdl.handle.net/10.1126/science.aan8260>
181. Painter, S.C.; Hartman, S.E.; Kivimäe, C.; Salt, L.A.; Clargo, N.M.; Daniels, C.J.; Bozec, Y.; Daniels, L.; Allen, S.; Hemsley, V.S.; Moschonase, G.; Davidson, K. (2017). The elemental stoichiometry (C, Si, N, P) of the Hebrides Shelf and its role in carbon export. *Prog. Oceanogr.* 159: 154-177. <https://dx.doi.org/10.1016/j.pocean.2017.10.001>
182. Palombo, M.R.; Antonioli, F.; Lo Presti, V.; Mannino, M.A.; Melis, R.T.; Orru, P.; Stocchi, P.; Talamo, S.; Quarta, G.; Calcagnile, L.; Deiana, G.; Altamura, S. (2017). The late Pleistocene to Holocene palaeogeographic evolution of the Porto Conte area: Clues for a better understanding of human colonization of Sardinia and faunal dynamics during the last 30 ka. *Quaternary International* 439: 117-140. <https://dx.doi.org/10.1016/j.quaint.2016.06.014>

183. Pearce-Higgins, J.W.; Brown, D.J.; Douglas, D.J.T.; Alves, J.A.; Bellio, M.; Bocher, P.; Buchanan, G.M.; Clay, R.P.; Conklin, J.; Crockford, N.; Dann, P.; Elts, J.; Friis, C.; Fuller, R.A.; Gill, J.A.; Gosbell, K.; Johnson, J.A.; Marquez-Ferrando, R.; Masero, J.A.; Merlville, D.S.; Millington, S.; Minton, C.; Mundkur, T.; Nol, E.; Pehlak, H.; Piersma, T.; Robin, F.; Rogers, D.I.; Ruthrauff, D.R.; Senner, N.R.; Shah, J.N.; Sheldon, R.D.; Soloviev, S.A.; Tomkovich, P.S.; Verkuil, Y.I. (2017). A global threats overview for Numeniini populations: synthesising expert knowledge for a group of declining migratory birds. *Bird. Cons. Intern.* 27(1): 6-34. [dx.doi.org/10.1017/s0959270916000678](https://doi.org/10.1017/s0959270916000678)
184. Perlut, N.G.; Klak, T.C.; Rakhimberdiev, E. (2017). Geolocator Data Reveal the Migration Route and Wintering Location of a Caribbean Martin (*Progne dominicensis*). *Wilson J. Ornithol.* 129(3): 605-610. <https://doi.org/10.1676/16-142.1>
185. Peruzzi, A.; Ober, S.; Bosma, R. (2017). Effect of Pressure on Deep-Ocean Thermometers. *International Journal of Thermophysics* 38(11): 163. <https://doi.org/10.1007/s10765-017-2297-4>
186. Petras, D.; Koester, I.; Da Silva, R.; Stephens, B.M.; Haas, A.F.; Nelson, C.E.; Kelly, L.W.; Aluwihare, L.I.; Dorrestein, P.C. (2017). High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter. *Front. Mar. Sci.* 4. <https://dx.doi.org/10.3389/fmars.2017.00405>
187. Petroff, E.; van Haren, H.; The ANTARES Collaboration; The H.E.S.S. Collaboration (2017). A polarized fast radio burst at low Galactic latitude. *Monthly Notices of the Royal Astronomical Society* 469(4): 4465–4482. <https://doi.org/10.1093/mnras/stx1098>
188. Pitarch, J. (2017). Biases in ocean color over a Secchi disk. *Optics Express* 25(24): A1124. <https://doi.org/10.1364/OE.25.0A1124>
189. Pohlman, J.W.; Greinert, J.; Ruppel, C.; Silyakova, A.; Vielstädte, L.; Casso, M.; Mienert, J.; Bünz, S. (2017). Enhanced CO₂ uptake at a shallow Arctic Ocean seep field overwhelms the positive warming potential of emitted methane. *Proc. Natl. Acad. Sci. U.S.A.* 114(21): 5355-5360. <https://dx.doi.org/10.1073/pnas.1618926114>
190. Prouty, N.G.; Mienis, F.; Campbell-Swarzenski, P.; Roark, E.B.; Davies, A.J.; Robertson, C.M.; Duineveld, G.; Ross, S.W.; Rhode, M.; Demopoulos, A.W.J. (2017). Seasonal variability in the source and composition of particulate matter in the depositional zone of Baltimore Canyon, U.S. Mid-Atlantic Bight. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 127: 77-89. <https://dx.doi.org/10.1016/j.dsr.2017.08.004>
191. Puente, A.; Guinda, X.; Juanes, J.A.; Ramos, E.; Echavarri-Erasun, B.; De La Hoz, C.F.; Degraer, S.; Kerckhof, F.; Bojanić, N.; Rousou, M.; Orav-Kotta, H.; Kotta, J.; Jourde, J.; Pedrotti, M.L.; Leclerc, J.-C.; Simon, N.; Bachelet, G.; Lavesque, N.; Arvanitidis, C.; Pavloudi, C.; Faulwetter, S.; Crowe, T.P.; Coughlan, J.; Benedetti-Cecchi, L.; dal Bello, M.; Magni, P.; Como, S.; Coppa, S.; De Lucia, G.A.; Rugins, T.; Jankowska, E.; Weslawski, J.M.; Warzocha, J.; Silva, T.; Ribeiro, P.; de Matos, V.; Sousa-Pinto, I.; Troncoso, J.; Peleg, O.; Rilov, G.; Espinosa, F.; Pérez-Ruzafa, A.; Frost, M.; Hummel, H.; van Avesaath, P. (2017). The role of physical variables in biodiversity patterns of intertidal macroalgae along European coasts. *J. Mar. Biol. Ass. U.K.* 97(3): 549-560. <https://dx.doi.org/10.1017/S0025315416001673>
192. Rakhimberdiev, E.; Saveliev, A.; Piersma, T.; Karagicheva, J. (2017). FLIGHTR: an R package for reconstructing animal paths from solar geolocation loggers. *Methods Ecol. Evol.* 8(11): 1482-1487. <https://dx.doi.org/10.1111/2041-210x.12765>
193. Randlett, M.-E.; Bechtel, A.; van der Meer, M.T.J.; Peterse, F.; Litt, T.; Pickarski, N.; Kwiecien, O.; Stockhecke, M.; Wehrli, B.; Schubert, C.J. (2017). Biomarkers in Lake Van sediments reveal dry conditions in eastern Anatolia during 110,000-10,000 years B.P. *Geochem. Geophys. Geosyst.* 18(2): 571-583. [dx.doi.org/10.1002/2016gc006621](https://doi.org/10.1002/2016gc006621)



194. Reed, D.C.; Deemer, B.R.; van Grinsven, S.; Harrison, J.A. (2017). Are elusive anaerobic pathways key methane sinks in eutrophic lakes and reservoirs? *Biogeochemistry* 134(1-2): 29-39. <https://dx.doi.org/10.1007/s10533-017-0356-3>
195. Richter, K.; Nilsen, J.E.Ø.; Raj, R.P.; Bethke, I.; Johannessen, J.A.; Slangen, A.B.A.; Marzeion, B. (2017). Northern North Atlantic sea level in CMIP5 climate models - evaluation of mean state, variability and trends against altimetric observations. *J. Clim.* 30(23): 9383-9398. <https://dx.doi.org/10.1175/jcli-d-17-0310.1>
196. Rix, L.; de Goeij, J.M.; Van Oevelen, D.; Struck, U.; Al-Horani, F.A.; Wild, C.; Naumann, M.S. (2017). Differential recycling of coral and algal dissolved organic matter via the sponge loop. *Funct. Ecol.* 31(3): 778-789. dx.doi.org/10.1111/1365-2435.12758
197. Rohling, E.J.; Hibbert, F.D.; Williams, F.H.; Grant, K.M.; Marino, G.; Foster, G.L.; Hennekam, R.; de Lange, G.J.; Roberts, A.P.; Yu, J.; Webster, J.M.; Yokoyama, Y. (2017). Differences between the last two glacial maxima and implications for ice-sheet, $\delta^{18}O$, and sea-level reconstructions. *Quat. Sci. Rev.* 176: 1-28. <https://doi.org/10.1016/j.quascirev.2017.09.009>
198. Rolison, J.M.; Stirling, C.H.; Middag, R.; Rijkenberg, M.J.A. (2017). Uranium stable isotope fractionation in the Black Sea: Modern calibration of the $^{238}U/^{235}U$ paleo-redox proxy. *Geochim. Cosmochim. Acta* 203: 69-88. <https://dx.doi.org/10.1016/j.gca.2016.12.014>
199. Romero-Martínez, L.; van Slooten, C.; Nebot, E.; Acevedo-Merino, A.; Peperzak, L. (2017). Assessment of imaging-in-flow system (FlowCAM) for systematic ballast water management. *Sci. Total Environ.* 603-604: 550-561. <https://dx.doi.org/10.1016/j.scitotenv.2017.06.070>
200. 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. (2017). Giant boulders and Last Interglacial storm intensity in the North Atlantic. *Proc. Natl. Acad. Sci. U.S.A.* 114(46): 201712433. <https://dx.doi.org/10.1073/pnas.1712433114>
201. Rozema, P.D.; Biggs, T.; Sprong, P.A.A.; Buma, A.G.J.; Venables, H.J.; Evans, C.; Meredith, M.P.; Bolhuis, H. (2017). Summer microbial community composition governed by upper-ocean stratification and nutrient availability in northern Marguerite Bay, Antarctica. *Deep-Sea Res., Part II, Top. Stud. Oceanogr.* 139: 151-166. <https://dx.doi.org/10.1016/j.dsr2.2016.11.016>
202. Rupprecht, F.; Möller, I.; Paul, M.; Kudella, M.; Spencer, T.; van Wesenbeeck, B.K.; Wolters, G.; Jensen, K.; Bouma, T.J.; Miranda-Lange, M.; Schimmels, S. (2017). Vegetation-wave interactions in salt marshes under storm surge conditions. *Ecol. Eng.* 100: 301-315. dx.doi.org/10.1016/j.ecoleng.2016.12.030
203. Rush, D.; Sinninghe Damsté, J.S. (2017). Lipids as paleomarkers to constrain the marine nitrogen cycle. *Environ. Microbiol.* 19(6): 2119-2132. <https://dx.doi.org/10.1111/1462-2920.13682>
204. Saad, S.; Bhatnagar, S.; Tegetmeyer, H.E.; Geelhoed, J.S.; Strous, M.; Ruff, S.E. (2017). Transient exposure to oxygen or nitrate reveals ecophysiology of fermentative and sulfate-reducing benthic microbial populations. *Environ. Microbiol.* 19(12): 4866-4881. <https://dx.doi.org/10.1111/1462-2920.13895>
205. Sangrà, P.; Stegner, A.; Hernández-Arencibia, Mónica; Márrero-Díaz, A.; Salinas, C.; Aguiar-González, B.; Henríquez-Pastene, C.H.; Mouriño-Carballido, B. (2017). The Bransfield Gravity Current. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 119: 1-15. dx.doi.org/10.1016/j.dsr.2016.11.003
206. Saraiva, S.; Fernandez, L.; van der Meer, J.; Neves, R.; Kooijman, S.A.L. M. (2017). The role of bivalves in the Balgzand : First steps on an integrated modelling approach. *Ecol. Model.* 359: 34-48. <https://doi.org/10.1016/j.ecolmodel.2017.04.018>



207. Schmidt, V.; Gomez-Chiarri, M.; Roy, C.; Smith, K.; Amaral-Zettler, L. (2017). Subtle Microbiome Manipulation Using Probiotics Reduces Antibiotic-Associated Mortality in Fish. *mSystems* 2(6): e00133-17. <https://dx.doi.org/10.1128/msystems.00133-17>
208. Schwarz, C.; Cox, T.; van Engeland, T.; van Oevelen, D.; van Belzen, J.; van de Koppel, J.; Soetaert, K.; Bouma, T.J.; Meire, P.; Temmerman, S. (2017). Field estimates of flocculation dynamics and settling velocities in a tidal creek with significant along-channel gradients in velocity and SPM. *Est., Coast. and Shelf Sci.* 197: 221-235. <https://dx.doi.org/10.1016/j.ecss.2017.08.041>
209. Seitaj, D.; Sulu-Gambari, F.; Burdorf, L.D.W.; Romero-Ramirez, A.; Maire, O.; Malkin, S.Y.; Slomp, C. P.; Meysman, F.J.R. (2017). Sedimentary oxygen dynamics in a seasonally hypoxic basin. *Limnol. Oceanogr.* 62(2): 452-473. <https://hdl.handle.net/10.1002/lno.10434>
210. Shi, B.; Cooper, J.R.; Pratolongo, G.; Gao, S.; Bouma, T.J.; Li, G.; Li, C.; Yang, S.L.; Wang, Y. (2017). Erosion and Accretion on a Mudflat: The Importance of Very Shallow-Water Effects. *Journal of Geophysical Research-Oceans* 122(12): 9476–9499. <https://dx.doi.org/10.1002/2016jc012316>
211. Simaiakis, S.M.; Rijdsdijk, K.F.; Koene, E.F.M.; Norder, S.J.; Van Boxel, J.H.; Stocchi, P.; Hamoud, C.; Kougioumoutzis, K.; Georgopoulou, E.; van Loon, E.; Tjørve, K.M.C.; Tjørve, E. (2017). Geographic changes in the Aegean Sea since the Last Glacial Maximum : Postulating biogeographic effects of sea-level rise on islands. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 471: 108-119. <https://dx.doi.org/10.1016/j.palaeo.2017.02.002>
212. Sinninghe Damsté, J.S.; Rijpstra, W.I.C.; Dedysh, S.N.; Foesel, B.U.; Villanueva, L. (2017). Pheno- and Genotyping of Hopanoid Production in Acidobacteria. *Front. Microbiol.* 8: 968. <https://dx.doi.org/10.3389/fmicb.2017.00968>
213. Slagter, H.A.; Reader, H.E.; Rijkenberg, M.J.A.; Rutgers van der Loeff, M.; de Baar, H.J.W.; Gerringa, L.J.A. (2017). Organic Fe speciation in the Eurasian Basins of the Arctic Ocean and its relation to terrestrial DOM. *Mar. Chem.* 197: 11-25. <https://dx.doi.org/10.1016/j.marchem.2017.10.005>
214. Slangen, A.B.A.; Meyssignac, B.; Agosta, C.; Champollion, N.; Church, J.A.; Fettweis, X.; Ligtner, S.R.M.; Marzeion, B.; Melet, A.; Palmer, M.D.; Richter, K.; Roberts, C.D.; Spada, G. (2017). Evaluating model simulations of 20th century sea-level rise. Part 1: Global mean sea-level change. *J. Clim.* 30(21): 8539–8563. <https://dx.doi.org/10.1175/jcli-d-17-0110.1>
215. Slangen, A.B.A.; van de Wal, R.S.W.; Reerink, T.; de Winter, R.; Hunter, J.R.; Woodworth, P.L.; Edwards, T.L. (2017). The Impact of Uncertainties in Ice Sheet Dynamics on Sea-Level Allowances at Tide Gauge Locations. *J. Mar. Sci. Eng.* 5(2): 21. <https://dx.doi.org/10.3390/jmse5020021>
216. Sluijs, A.; van Roij, L.; Frieling, J.; Laks, J.; Reichert, G.-J. (2017). 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>
217. Sollai, M.; Hopmans, E.C.; Bale, N.J.; Mets, A.; Warden, L.; Moros, M.; Sinninghe Damsté, J.S. (2017). The Holocene sedimentary record of cyanobacterial glycolipids in the Baltic Sea: an evaluation of their application as tracers of past nitrogen fixation. *Biogeosciences* 14(24): 5789-5804. <https://doi.org/10.5194/bg-14-5789-2017>
218. Sorokin, D.Y.; Messina, E.; Smedile, F.; Roman, P.; Sinninghe Damsté, J.S.; Ciordia, S.; Mena, M.C.; Ferrer, M.; Golyshin, P.N.; Kublanov, I.V.; Samarov, N.I.; Toshchakov, S.V.; La Cono, V.; Yakimov, M.M. (2017). Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. *ISME J.* 11: 1245-1260. <https://dx.doi.org/10.1038/ismej.2016.203>
219. Stal, L. (2017). The effect of oxygen concentration and temperature on nitrogenase activity in the heterocystous cyanobacterium *Fischerella* sp. *NPG Scientific Reports* 7(1): 10. <https://dx.doi.org/10.1038/s41598-017-05715-0>



220. Stal, L.J. (2017). Gregarious cyanobacteria. *Environ. Microbiol.* 19(6): 2105-2109. <https://dx.doi.org/10.1111/1462-2920.13739>
221. Stocchi, P.; Antonioli, F.; Montagna, P.; Pepe, F.; Lo Presti, V.; Caruso, A.; Corradino, M.; Dardanelli, G.; Renda, P.; Frank, N.; Douville, E.; Thil, F.; de Boer, B.; Ruggieri, R.; Sciortino, R.; Pierre, C. (2017). A stalactite record of four relative sea-level highstands during the Middle Pleistocene Transition. *Quat. Sci. Rev.* 173: 92-100. <https://dx.doi.org/10.1016/j.quascirev.2017.08.008>
222. Strain, E.M.A.; van Belzen, J.; Comandini, P.; Wong, J.; Bouma, T.J.; Airoidi, L. (2017). The role of changing climate in driving the shift from perennial grasses to annual succulents in a Mediterranean saltmarsh. *J. Ecol.* 105(5): 1374-1385. <https://dx.doi.org/10.1111/1365-2745.12799>
223. Stratmann, T.; Lund-Hansen, L.C.; Sorrell, B.K.; Markager, S. (2017). Concentrations of organic and inorganic bound nutrients and chlorophyll a in the Eurasian Basin, Arctic Ocean, early autumn 2012. *Regional Studies in Marine Science* 9: 69-75. dx.doi.org/10.1016/j.rsma.2016.11.008
224. Su, Y.; Lammers, M.; Zhang, Y.; van Bree, L.; Liu, Z.; Reichart, G.-J.; Middelburg, J.J. (2017). Sources of organic matter for bacteria in sediments of Lake Rotsee, Switzerland. *J. Paleolimnol.* 58(3): 391-402. <https://doi.org/10.1007/s10933-017-9985-8>
225. Sulu-Gambari, F.; Roepert, A.; Jilbert, T.; Hagens, M.; Meysman, F.J.R.; Slomp, C.P. (2017). Molybdenum dynamics in sediments of a seasonally-hypoxic coastal marine basin. *Chem. Geol.* 466: 627-640. <https://dx.doi.org/10.1016/j.chemgeo.2017.07.015>
226. The ANTARES collaboration (van Haren, H.) (2017). Stacked search for time shifted high energy neutrinos from gamma ray bursts with the Antares neutrino telescope. *Eur. Phys. J. C* 77(1): 20. <https://dx.doi.org/10.1140/epjc/s10052-016-4496-8>
227. The ANTARES collaboration (van Haren, H.) (2017). All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the Antares neutrino telescope. *Eur. Phys. J. C* 77(12): 7. <https://dx.doi.org/10.1140/epjc/s10052-017-5451-z>
228. The ANTARES collaboration (van Haren, H.) (2017). An algorithm for the reconstruction of high-energy neutrino-induced particle showers and its application to the ANTARES neutrino telescope. *Eur. Phys. J. C* 77(6): 419. <https://dx.doi.org/10.1140/epjc/s10052-017-4979-2>
229. The ANTARES collaboration (van Haren, H.) (2017). First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. *Physical Review D* 96(8): 082001. <https://dx.doi.org/10.1103/physrevd.96.082001>
230. The ANTARES collaboration (van Haren, H.) (2017). New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. *Physical Review D* 96(6): 062001. <https://dx.doi.org/10.1103/physrevd.96.062001>
231. The ANTARES collaboration (van Haren, H.) (2017). Results from the search for dark matter in the Milky Way with 9 years of data of the ANTARES neutrino telescope. *Phys. Lett. B* 769: 249-254. <https://hdl.handle.net/10.1016/j.physletb.2017.03.063>
232. The ANTARES collaboration (van Haren, H.) (2017). Search for dark matter annihilation in the earth using the ANTARES neutrino telescope. *Physics of the Dark Universe* 16: 41-48. <https://dx.doi.org/10.1016/j.dark.2017.04.005>
233. The ANTARES collaboration (van Haren, H.); IceCube Collaboration; Pierre Auger Collaboration; Ligo Scientific Collaboration; Virgo Collaboration (2017). Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. *Astrophys. J. Lett.* 850: L35. <https://doi.org/10.3847/2041-8213/aa9aed>
234. The KM3NeT collaboration (van Haren, H.) (2017). Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. *Journal of High Energy Physics* 2017(5): 39. [https://dx.doi.org/10.1007/jhep05\(2017\)008](https://dx.doi.org/10.1007/jhep05(2017)008)

235. The ANTARES collaboration (van Haren, H.) (2017). Search for high-energy neutrinos from bright GRBs with ANTARES. *Monthly Notices of the Royal Astronomical Society* 469(1): 906-915. <https://hdl.handle.net/10.1093/mnras/stx902>
236. The ANTARES collaboration (van Haren, H.); IceCube Collaboration; Ligo Scientific Collaboration; Virgo Collaboration (2017). Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. *Physical Review D* 96(2): 022005. <https://doi.org/10.1103/PhysRevD.96.022005>
237. The ANTARES collaboration (van Haren, H.) (2017). Search for relativistic magnetic monopoles with five years of the ANTARES detector data. *Journal of High Energy Physics* 2017(7): 54. [https://dx.doi.org/10.1007/jhep07\(2017\)054](https://dx.doi.org/10.1007/jhep07(2017)054)
238. The ANTARES collaboration (van Haren, H.) (2017). Time-dependent search for neutrino emission from X-ray binaries with the ANTARES telescope. *Journal of Cosmology and Astroparticle Physics* 2017(04): 019. <https://dx.doi.org/10.1088/1475-7516/2017/04/019>
239. The ANTARES collaboration (van Haren, H.) (2017). Sperm whale long-range echolocation sounds revealed by ANTARES, a deep-sea neutrino telescope. *NPG Scientific Reports* 7: 45517. <https://dx.doi.org/10.1038/srep45517>
240. Thibault de Chanvalon, A.; Metzger, A.; Mouret, A.; Knoery, J.; Geslin, E.; Meysman, F.J.R. (2017). Two dimensional mapping of iron release in marine sediments at submillimetre scale. *Mar. Chem.* 191: 34-49. <https://dx.doi.org/10.1016/j.marchem.2016.04.003>
241. Tierney, J.E.; Sinninghe Damsté, J.S.; Pancost, R.D.; Sluijs, A.; Zachos, J.C. (2017). Eocene temperature gradients. *Nature Geoscience* 10(8): 538-539. <https://dx.doi.org/10.1038/ngeo2997>
242. Tiessen, M.C.H.; Eleveld, M.A.; Nauw, J.J.; Nechad, B.; Gerkema, T. (2017). Depth dependence and intra-tidal variability of Suspended Particulate Matter transport in the East Anglian plume. *J. Sea Res.* 127: 2-11. <https://dx.doi.org/10.1016/j.seares.2017.03.008>
243. Townhill, B.L.; van der Molen, J.; Metcalfe, J.D.; Simpson, S.D.; Farcas, A.; Pinnegar, J.K. (2017). Consequences of climate-induced low oxygen conditions for commercially important fish. *Mar. Ecol. Prog. Ser.* 580: 191-204. <https://dx.doi.org/10.3354/meps12291>
244. Toyofuku, T.; Matsuo, M.Y.; de Nooijer, L.J.; Nagai, Y.; Kawada, S.; Fujita, K.; Reichart, G.-J.; Nomaki, H.; Tsuchiya, M.; Sakaguchi, H.; Kitazato, H. (2017). Proton pumping accompanies calcification in foraminifera. *Nature Comm.* 8(14145): 11 pp. dx.doi.org/10.1038/ncomms14145
245. Tulp, I.; van der Veer, H.W.; Walker, P.; van Walraven, L.; Bolle, L.J. (2017). Can guild- or site-specific contrasts in trends or phenology explain the changed role of the Dutch Wadden Sea for fish? *J. Sea Res.* 127: 150-163. <https://dx.doi.org/10.1016/j.seares.2016.10.001>
246. van Belzen, J.; van de Koppel, J.; Kirwan, M.L.; van der Wal, D.; Herman, P.M.J.; Dakos, V.; Kéfi, S.; Scheffer, M.; Guntenspergen, G.R.; Bouma, T.J. (2017). Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. *Nature Comm.* 8: 15811. <https://doi.org/10.1038/ncomms15811>
247. Van De Lageweg, W.I.; Slangen, A.B.A. (2017). Predicting Dynamic Coastal Delta Change in Response to Sea-Level Rise. *J. Mar. Sci. Eng.* 5(2): 24. <https://dx.doi.org/10.3390/jmse5020024>
248. van de Velde, S.; Callebaut, I.; Gao, Y.; Meysman, F.J.R. (2017). Impact of electrogenic sulfur oxidation on trace metal cycling in a coastal sediment. *Chem. Geol.* 452: 9-23. <https://hdl.handle.net/10.1016/j.chemgeo.2017.01.028>
249. van den Hout, P.J.; Piersma, T.; ten Horn, J.; Spaans, B.; Lok, T. (2017). Individual shifts toward safety explain age-related foraging distribution in a gregarious shorebird. *Behav. Ecol.* 28(2): 419-428. <https://dx.doi.org/10.1093/beheco/arw173>



250. van der Hout, C.M.; Witbaard, R.; Bergman, M.J.N.; Duineveld, G.C.A.; Rozemeijer, M.J.C.; Gerkema, T. (2017). The dynamics of suspended particulate matter (SPM) and chlorophyll- a from intratidal to annual time scales in a coastal turbidity maximum. *J. Sea Res.* 127: 105-118. <https://dx.doi.org/10.1016/j.seares.2017.04.011>
251. Van der Meer, J. (2017). Are the Q10 values of more than 1,000 reported for Antarctic seabed fauna realistic? *Curr. Biol.* 27(24): R1302-R1303. <https://dx.doi.org/10.1016/j.cub.2017.10.065>
252. van der Molen, J.; Ruardij, P.; Greenwood, N. (2017). A 3D SPM model for biogeochemical modelling, with application to the northwest European continental shelf. *J. Sea Res.* 127: 63-81. <https://dx.doi.org/10.1016/j.seares.2016.12.003>
253. van der Velde, M.; Hadrath, O.; Verkuil, Y.I.; Baker, A.J.; Piersma, T. (2017). New primers for molecular sex identification of waders. *Wader Study* 124(2): 147-151. <https://doi.org/10.18194/ws.00069>
254. van der Wal, D.; Lambert, G.I.; Ysebaert, T.; Plancke, Y.; Herman, P.M.J. (2017). Hydrodynamic conditioning of diversity and functional traits in subtidal estuarine macrozoobenthic communities. *Est., Coast. and Shelf Sci.* 197: 80-92. <https://hdl.handle.net/10.1016/j.ecss.2017.08.012>
255. van der Wal, D.; Ysebaert, T.; Herman, P.M.J. (2017). Response of intertidal benthic macrofauna to migrating megaripples and hydrodynamics. *Mar. Ecol. Prog. Ser.* 585: 17-30. <https://dx.doi.org/10.3354/meps12374>
256. van Dijk, I.; de Nooijer, L.J.; Wolthers, M.; Reichart, G.-J. (2017). Impacts of pH and [CO₂] on the incorporation of Zn in foraminiferal calcite. *Geochim. Cosmochim. Acta* 197: 263-277. dx.doi.org/10.1016/j.gca.2016.10.031
257. van Dijk, I.; de Nooijer, L.J.; Boer, W.; Reichart, G.-J. (2017). Sulfur in foraminiferal calcite as a potential proxy for seawater carbonate ion concentration. *Earth Planet. Sci. Lett.* 470: 64-72. <https://dx.doi.org/10.1016/j.epsl.2017.04.031>
258. van Dijk, I.; de Nooijer, L.J.; Reichart, G.-J. (2017). Trends in element incorporation in hyaline and porcelaneous foraminifera as a function of pCO₂. *Biogeosciences* 14(3): 497-510. dx.doi.org/10.5194/bg-14-497-2017
259. van Donk, S.; Camphuysen, K.C.J.; Shamoun-Baranes, J.; Van der Meer, J. (2017). The most common diet results in low reproduction in a generalist seabird. *Ecol. Evol.* 7(13): 4620-4629. <https://dx.doi.org/10.1002/ece3.3018>
260. van Haren, H.; Hanz, U.; de Stigter, H.; Mienis, F.; Duineveld, G. (2017). Internal wave turbulence at a biologically rich Mid-Atlantic seamount. *PLoS One* 12(12): e0189720. <https://dx.doi.org/10.1371/journal.pone.0189720>
261. van Haren, H.; Berndt, C.; Klauke, I. (2017). Ocean mixing in deep-sea trenches: New insights from the Challenger Deep, Mariana Trench. *Deep-Sea Res., Part 1, Oceanogr. Res. Pap.* 129: 1-9. <https://dx.doi.org/10.1016/j.dsr.2017.09.003>
262. van Haren, H.; Duineveld, G.; De Stigter, H. (2017). Prefrontal bore mixing. *Geophys. Res. Lett.* 44(18): 9408-9415. <https://dx.doi.org/10.1002/2017GL074384>
263. van Haren, H.; Hosegood, P.J. (2017). A downslope propagating thermal front over the continental slope. *Journal of Geophysical Research-Oceans* 122(4): 3191-3199. <https://dx.doi.org/10.1002/2017jc012797>
264. van Haren, H.; Puig, P. (2017). Internal wave turbulence in the Llobregat prodelta (NW Mediterranean) under stratified conditions: A mechanism for sediment waves generation? *Mar. Geol.* 388: 1-11. <https://dx.doi.org/10.1016/j.margeo.2017.04.008>
265. van Haren, H. (2017). AABW-transport variation and its effect on internal wave motions between top and bottom of the Puerto Rico Trench. *J. Mar. Res.* 75(4): 507-529. <https://dx.doi.org/10.1357/002224017821836716>

266. van Haren, H. (2017). Exploring the vertical extent of breaking internal wave turbulence above deep-sea topography. *Dyn. Atmos. Oceans* 77: 89–99. <https://dx.doi.org/10.1016/j.dynatmoce.2017.01.002>
267. van Hulten, M.; Middag, R.; Dutay, J.-C.; de Baar, H.; Roy-Barman, M.; Gehlen, M.; Tagliabue, A.; Sterl, A. (2017). Manganese in the west Atlantic Ocean in the context of the first global ocean circulation model of manganese. *Biogeosciences* 14: 1123-1152. <https://dx.doi.org/10.5194/bg-14-1123-2017>
268. van Oers, A.M.; Maas, L.R.M.; Bokhove, O. (2017). Hamiltonian discontinuous Galerkin FEM for linear, stratified (in)compressible Euler equations: internal gravity waves. *J. Comput. Physics* 330: 770-793. dx.doi.org/10.1016/j.jcp.2016.10.032
269. van Roij, L.; Sluijs, A.; Laks, J.J.; Reichart, G.-J. (2017). Stable carbon isotope analyses of nanogram quantities of particulate organic carbon (pollen) with laser ablation nano combustion gas chromatography/isotope ratio mass spectrometry. *Rapid Comm. Mass Spectrom.* 31: 47-58. dx.doi.org/10.1002/rcm.7769
270. van Soelen, E.E.; Kim, J.-H.; Ventura Santos, R.; Dantas, E.L.; Vasconcelos de Almeida, F.; Pinheiro Pires, J.; Roddaz, M.; Sinninghe Damsté, J.S. (2017). A 30 Ma history of the Amazon River inferred from terrigenous sediments and organic matter on the Ceará Rise. *Earth Planet. Sci. Lett.* 474: 40-48. <https://doi.org/10.1016/j.epsl.2017.06.025>
271. van Walraven, L.; Dapper, R.; Nauw, J.J.; Tulp, I.; Witte, J.I.J.; van der Veer, H.W. (2017). Long-term patterns in fish phenology in the western Dutch Wadden Sea in relation to climate change. *J. Sea Res.* 127: 173-181. <https://dx.doi.org/10.1016/j.seares.2017.04.001>
272. van Walraven, L.; Daan, R.; Langenberg, V.T.; van der Veer, H.W. (2017). Species composition and predation pressure of the gelatinous zooplankton community in the western Dutch Wadden Sea before and after the invasion of the ctenophore *Mnemiopsis leidyi* A. Agassiz, 1865. *Aquat. Invasions* 12(1): 5-21. <https://dx.doi.org/10.3391/ai.2017.12.1.02>
273. Vance, D.; Little, S.H.; de Souza, G.F.; Khatiwala, S.; Middag, R. (2017). Silicon and zinc biogeochemical cycles coupled through the Southern Ocean. *Nature Geoscience* 10(3): 202-206. hdl.handle.net/10.1038/ngeo2890
274. Vasiliev, I.; Mezger, E.M.; Lugli, S.; Reichart, G.-J.; Manzi, V.; Roveri, M. (2017). How dry was the Mediterranean during the Messinian salinity crisis? *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 471: 120-133. dx.doi.org/10.1016/j.palaeo.2017.01.032
275. Vellekoop, J.; Holwerda, F.; Prámparo, M.B.; Willmott, V.; Schouten, S.; Cúneo, N.R.; Scasso, R.A.; Brinkhuis, H. (2017). Climate and sea-level changes across a shallow marine Cretaceous-Palaeogene boundary succession in Patagonia, Argentina. *Palaeontology* 60(4): 519-534. <https://dx.doi.org/10.1111/pala.12297>
276. Vellekoop, J.; Woelders, L.; Açikalin, S.; Smit, J.; van de Schootbrugge, B.; Yilmaz, I.Ö.; Brinkhuis, H.; Speijer, R.P. (2017). Ecological response to collapse of the biological pump following the mass extinction at the Cretaceous–Paleogene boundary. *Biogeosciences* 14(4): 885-900. <https://dx.doi.org/10.5194/bg-14-885-2017>
277. Vézina, F.; Gerson, A.R.; Guglielmo, C.G.; Piersma, T. (2017). The performing animal: causes and consequences of body remodeling and metabolic adjustments in red knots facing contrasting thermal environments. *American Journal of Physiology-Regulatory Integrative and Comparative Physiology* 313(2): R120-R131. <https://dx.doi.org/10.1152/ajp-regu.00453.2016>
278. Villanueva, L.; Schouten, S.; Sinninghe Damsté, J.S. (2017). Phylogenomic analysis of lipid biosynthetic genes of Archaea shed light on the ‘lipid divide’. *Environ. Microbiol.* 19(1): 54-69. dx.doi.org/10.1111/1462-2920.13361
279. Voldsund, A.; Aguiar-González, B.; Gammelsrød, T.; Krakstad, J.-O.; Ullgren, J. (2017). Observations of the East Madagascar Current system: Dynamics and volume transports. *J. Mar. Res.* 75(4): 531-555. <https://doi.org/10.1357/002224017821836725>

280. Wahl, T.; Haigh, I.D.; Nicholls, R.J.; Arns, A.; Dangendorf, S.; Hinkel, J.; Slangen, A.B.A. (2017). Understanding extreme sea levels for broad-scale coastal impact and adaptation analysis. *Nature Comm.* 8: 16075. <https://dx.doi.org/10.1038/ncomms16075>
281. Wang, H.; van der Wal, D.; Li, X.; van Belzen, J.; Herman, P.M.J.; Hu, Z.; Ge, Z.; Zhang, L.; Bouma, T.J. (2017). Zooming in and out: scale dependence of extrinsic and intrinsic factors affecting salt marsh erosion. *Journal of Geophysical Research-Earth Surface* 122(7): 1455-1470. <https://dx.doi.org/10.1002/2016JF004193>
282. Warden, L.; Moros, M.; Neumann, T.; Shennan, S.; Timpson, A.; Manning, K.; Sollai, M.; Wacker, L.; Perner, K.; Häusler, K.; Leipe, T.; Zillén, L.; Kotilainen, A.; Jansen, E.; Schneider, R.R.; Oeberst, R.; Arz, H.; Sinninghe Damste, J.S. (2017). Climate induced human demographic and cultural change in northern Europe during the mid-Holocene. *NPG Scientific Reports* 7(1): 15251. <https://dx.doi.org/10.1038/s41598-017-14353-5>
283. Webb, A.E.; van Heuven, S.M.A.C.; de Bakker, D.M.; van Duyl, F.C.; Reichart, G.-J.; de Nooijer, L.J. (2017). Combined Effects of Experimental Acidification and Eutrophication on Reef Sponge Bioerosion Rates. *Front. Mar. Sci.* 4: 311. <https://doi.org/10.3389/fmars.2017.00311>
284. Weber, Y.; Sinninghe Damsté, J.S.; Hopmans, E.C.; Lehmann, M.F.; Niemann, H. (2017). Incomplete recovery of intact polar glycerol dialkyl glycerol tetraethers from lacustrine suspended biomass. *Limnol. Oceanogr., Methods* 15(9): 782–793. <https://dx.doi.org/10.1002/lom3.10198>
285. Weiss, G.M.; Pfannerstill, E.Y.; Schouten, S.; Sinninghe Damsté, J.S.; van der Meer, M.T.J. (2017). Effects of alkalinity and salinity at low and high light intensity on hydrogen isotope fractionation of long-chain alkenones produced by *Emiliania huxleyi*. *Biogeosciences* 14(24): 5693-5704. <https://dx.doi.org/10.5194/bg-14-5693-2017>
286. Welsh, J.E.; Liddell, C.; Van der Meer, J.; Thieltges, D.W. (2017). Parasites as prey: the effect of cercarial density and alternative prey on consumption of cercariae by four non-host species. *Parasitology* 144(13): 1775-1782. <https://doi.org/10.1017/s0031182017001056>
287. Winkler, D.W.; Gandoy, F.A.; Areta, J.I.; Iliff, M.J.; Rakhimberdiev, E.; Kardynal, K.J.; Hobson, K.A. (2017). Long-Distance Range Expansion and Rapid Adjustment of Migration in a Newly Established Population of Barn Swallows Breeding in Argentina. *Curr. Biol.* 27(7): 1080-1084. <https://dx.doi.org/10.1016/j.cub.2017.03.006>
288. Wit, J.C.; de Nooijer, L.J.; Haig, J.; Jorissen, F.J.; Thomas, E.; Reichart, G.-J. (2017). Towards reconstructing ancient seawater Mg/Ca by combining porcelaneous and hyaline foraminiferal Mg/Ca-temperature calibrations. *Geochim. Cosmochim. Acta* 211: 341-354. <https://dx.doi.org/10.1016/j.gca.2017.05.036>
289. Witbaard, R.; Bergman, M.J.N.; van Weerlee, E.M.; Duineveld, G.C.A. (2017). An estimation of the effects of *Ensis directus* on the transport and burial of silt in the near-shore Dutch coastal zone of the North Sea. *J. Sea Res.* 127: 95-104. <https://dx.doi.org/10.1016/j.seares.2016.12.001>
290. Wong, T.E.; Bakker, A.M.R.; Ruckert, K.; Applegate, P.; Slangen, A.B.A.; Keller, K. (2017). BRICK v0.2, a simple, accessible, and transparent model framework for climate and regional sea-level projections. *Geosci. Model Dev.* 10(7): 2741-2760. <https://doi.org/10.5194/gmd-10-2741-2017>
291. Wu, J.; Liu, Z.; Stuut, J-B W.; Zhao, Y.; Schirone, A.; de Lange, G.J. (2017). North-African paleodrainage discharges to the central Mediterranean during the last 18,000 years: A multiproxy characterization. *Quat. Sci. Rev.* 163: 95-113. [dx.doi.org/10.1016/j.quascirev.2017.03.015](https://doi.org/10.1016/j.quascirev.2017.03.015)

292. Xie, R.C.; Galer, S.J.G.; Abouchami, W.; Rijkenberg, M.J.A.; de Baar, H.J.W; De Jong, J.; Andreea, M.O. (2017). Non-Rayleigh control of upper-ocean Cd isotope fractionation in the western South Atlantic. *Earth Planet. Sci. Lett.* 471: 94-103. <https://dx.doi.org/10.1016/j.epsl.2017.04.024>
293. Zohar, I.; Teutsch, N.; Levin, N.; Mackin, G.; de Stigter, H.; Bookman, R. (2017). Urbanization effects on sediment and trace metals distribution in an urban winter pond (Netanya, Israel). *J. Soils Sediments* 17(8): 2165-2176. <https://doi.org/10.1007/s11368-017-1679-3>

NON-REFEREED PAPERS

1. Gerkema, T.; Philippart, C.J.M.; van der Veer, H.W. (2017). North Sea coastal ecology: Preface. *J. Sea Res.* 127: 1. <https://doi.org/10.1016/j.seares.2017.06.016>
2. Kompanje, E.J.O.; Camphuysen, C.J.; Leopold, M.F. (2017). The first case of conjoined twin harbour porpoises *Phocoena phocoena* (Mammalia, Cetacea). *Deinsea-Rotterdam* 17: 1-5 <http://imis.nioz.nl/imis.php?module=ref&refid=292143>
3. Kraberg, A.C.; Boersma, M.; Hummel, H.; Wiltshire, K.H.; Frost, M. (2017). 50 years of the European Marine Biology symposium – a continuing success story : introduction to the EMBS special issue. *J. Mar. Biol. Ass. U.K.* 97(3): 463-464. <https://dx.doi.org/10.1017/s002531541700056x>
4. Philippart, C.J.M.; Gerkema, T.; van der Veer, H.W. (2017). North Sea coastal ecology : Future challenges. *J. Sea Res.* 127: 227-230. <https://dx.doi.org/10.1016/j.seares.2017.07.004>
5. Piersma, T.; Chan, Y.-C; Mu, T.; Hassell, C.J.; Melville, D.S.; Peng; Ma, Z.; Zhang, Z.; Wilcove, D.S. (2017). Loss of habitat leads to loss of birds: reflections on the Jiangsu, China, coastal development plans. *Wader Study* 124(2): 93-98. <https://dx.doi.org/10.18194/ws.00077>
6. Piersma, T. (2017). Book review. Herbert H.H.T & Namgail T. (eds) 2017 Bird migration across the Himalayas: Wetland functioning amidst mountains and glaciers. *Ardea* 105(2): 171-172 <http://imis.nioz.nl/imis.php?module=ref&refid=290687>
7. Piersma, T. (2017). Book review. Prum R.O. 2017 The evolution of beauty: How Darwin's forgotten theory of mate choice shapes the animal world – and us. *Ardea* 105(2): 169-170 <http://imis.nioz.nl/imis.php?module=ref&refid=290690>

MONOGRAPHS

1. Camphuysen, K. (C.J.); Henderson, P.A.; Velilla, E.; Kühn, S.; Leopold, M.F.; Somes, R. (2017). North Sea fish and their remains. Royal Netherlands Institute for Sea Research/Pisces Conservation Ltd: [s.l.]. ISBN 978-1-90-4690-65-8. 326 pp.



CHAPTERS IN BOOKS

1. de Baar, H.J.W; van Heuven, S.; Middag, R. (2017). Ocean Biochemical Cycling and Trace Elements, in: Encyclopedia of Geochemistry. Encyclopedia of Earth Sciences Series, : pp. 1-21; Chapter 356-1 https://dx.doi.org/10.1007/978-3-319-39193-9_356-1
2. de Baar, H.J.W; van Heuven, S.M.A.C.; Middag, R. (2017). Ocean Salinity, Major Elements, and Thermohaline Circulation, in: Encyclopedia of Geochemistry. Encyclopedia of Earth Sciences Series, : pp. 1-7; Chapter 120-1. https://doi.org/10.1007/978-3-319-39193-9_120-1
3. Stal, L.J.; Bolhuis, H.; Cretoiu, M.S. (2017). Phototrophic Microbial Mats, in: Hallenbeck, P.C. Modern Topics in the Phototrophic Prokaryotes : environmental and applied aspects . pp. 295-321. https://dx.doi.org/10.1007/978-3-319-46261-5_9

DISSERTATIONS

1. de Paoli, H.C. (2017). Restoring mussel bed: A guide on how to survive on an intertidal mud-flat. PhD Thesis. Rijksuniversiteit Groningen: Groningen. ISBN 978-90-367-9583-8. 172 pp. <hdl.handle.net/11370/2bc4de34-d756-4830-89d8-aa466ecbd21a>
2. Goedknecht, M.A. (2017). Pacific oysters and parasites: Species invasions and their impact on parasite-host interactions. PhD Thesis. VU University Amsterdam/NIOZ: Amsterdam. ISBN 978-90-5383-297-9. 271 pp. <https://hdl.handle.net/1871/55400>
3. Lipsewers, Y.A. (2017). Role of chemolithoautotrophic microorganisms involved in nitrogen and sulfur cycling in coastal marine sediments. PhD Thesis. [S.n.]: [s.l.]. ISBN 978-90-6266-4924. 225 pp. <https://hdl.handle.net/1874/357552>
4. Oudman, T. (2017). Red knot habits : An optimal foraging perspective on intertidal life at Banc d'Arguin, Mauritania. PhD Thesis. RUG: Groningen. ISBN 978-90-367-9744-3. 180 pp. <https://hdl.handle.net/11370/4ea6a0b1-5ad0-45e0-9deb-a34899c0a8fb>
5. Soissons, L.M. (2017). Seagrasses under threat: Understanding the resilience of temperate seagrass meadows in a changing environment. PhD Thesis. Radboud University: Nijmegen. ISBN 9789492380234. <https://hdl.handle.net/2066/169308>
6. Van Dijk, I.E.Y. (2017). Double Trouble Foraminiferal Calcification in a Changing Ocean. PhD Thesis. [S.n.]: Utrecht. 170 pp. <https://hdl.handle.net/1874/346342>
7. Warden, L.A. (2017). Paleoenvironmental reconstructions in the Baltic Sea and Iberian margin : Assessment of GDGTs and long-chain alkenones in Holocene sedimentary records. PhD Thesis. NIOZ: Texel. 249 pp. <https://hdl.handle.net/1874/348276>
8. Zhu, Z. (2017). Seed fate in space implications for regeneration of coastal wetlands. PhD Thesis. Radboud Universiteit: Nijmegen. ISBN 9789462955646. 137 pp. <https://hdl.handle.net/2066/169191>

PROFESSIONAL PUBLICATIONS

1. Bijleveld, A.; van der Heide, T.; Speelman, H.; Philippart, K.; Vellinga, P. (2017). Audit Bodemdalingcommissie Ameland 1986-2016. in het bijzonder de periode 2011-2016. Waddenacademie: Leeuwarden. 17 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=292140>
2. Bos, D.; Kentie, R.; Hoekstra, G.; van der Heide, Y.; Wymenga, E.; Hoekema, F.; Hooijmeijer, J.; Piersma, T. (2017). Effecten van habitatverlies op grutto en andere weidevogels. *Levende Nat.* 118(2): 40-46
<http://imis.nioz.nl/imis.php?module=ref&refid=283816>
3. Camphuysen, C.J.; van Bemmelen, R.; Van Spanje, T. (2017). Ship-based seabird and marine mammal surveys off Mauritania, 1-12 November 2016. Royal Netherlands Institute for Sea Research (NIOZ): Texel. 58 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=292181>
4. Camphuysen, C.J. (2017). Monitoring and assessment of the proportion of oiled Common Guillemots from beached bird surveys in The Netherlands: annual update winter 2015/16. NIOZ-rapport, 2017-1. NIOZ: Texel. 25 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=292180>
5. Dolch, T.; Folmer, E.O.; Frederiksen, M.S.; Herlyn, M.; van Katwijk, M.M.; Kolbe, K.; Krause-Jensen, D.; Schmedes, P.; Westerbeek, E.P. [s.d.]. Seagrass, in: Klopper, S. et al. (2017). Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=292236>
6. Drent, J.; Bijkerk, R.; Grotjahn, M.; Voß, J.; Carausu, M.-C.; Thieltges, D.W. (2017). Macrozoobenthos, in: Klopper, S. et al. Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=20292235>
7. Elliott, S.A.M.; Arroyo, N.L.; Safi, G.; Ostle, C.; Guérin, L.; McQuatters-Gollop, A.; Aubert, A.; Artigas, F.; Budria, A.; Rombouts, I.; Pesch, R.; Schmitt, P.; Vina-Herbon, C.; Meakins, B.; González-Irusta, J.M.; Preciado, I.; López-López, L.; Punzón, A.; Torriente, A.; Serrano, A.; Haraldsson, M.; Capuzzo, E.; Claquin, P.; Kromkamp, J.; Niquil, N.; Judd, A.; Padegimas, B.; Corcoran, E. (2017). Proposed approaches for indicator integration. EcApRHA Deliverable WP 4.1. [S.n.]: [s.l.]. ISBN 9781911458296. 43 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=286625>
8. Folmer, E.; Büttger, H.; Herlyn, M.; Markert, A.; Millat, G.; Troost, K.; Wehrmann, A. (2017). Beds of blue mussels and Pacific oysters, in: Klopper, S. et al. Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=292237>
9. Folmer, E.; Dekinga, A.; Holthuijsen, S.; Van der Meer, J.; Mosk, D.; Piersma, T.; van der Veer, H. (2017). Species Distribution Models of Intertidal Benthos : Tools for Assessing the Impact of Physical and Morphological Drivers on Benthos and Birds in the Wadden Sea. NIOZ-rapport, 2017-3. NIOZ: Texel. 114 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=289653>
10. Haraldsson, M.; Arroyo, N.L.; Capuzzo, E.; Claquin, P.; Kromkamp, J.; Niquil, N.; Ostle, C.; Preciado, I.; Safi, G. (2017). Report on the integration of OSPAR Food Webs Indicators into the NEAT tool. EcApRHA Deliverable WP 3.5. [S.n.]: [s.l.]. ISBN 9781911458289. 43 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=286626>
11. Klopper, S.; Baptist, M.J.; Bostelmann, A.; Busch, J.A.; Buschbaum, C.; Gutow, L.; Janssen, G.; Jensen, K.; Jørgensen, H.P.; de Jong, F.; Lüerßen, G.; Schwarzer, K.; Stempel, R.; Thieltges, D. (2017). Wadden Sea Quality Status Report 2017. Common Wadden Sea Secretariat: Wilhelmshaven, Germany.
<http://qsr.waddensea-worldheritage.org/>



12. Kromkamp, J.; Capuzzo, E.; Philippart, C.J.M. (2017). Measuring phytoplankton primary production: review of existing methodologies and suggestions for a common approach. EcAp-RHA Deliverable WP 3.2. [S.n.]: [s.l.]. ISBN 9781911458272. 24 pp.
<http://imis.nioz.nl/imis.php?module=ref&refid=286628>
13. Philippart, C.J.M.; Mekkes, L.; Buschbaum, C.; Wegner, K.M.; Laursen, K. (2017). Climate ecosystems, in: Kloepper, S. et al. Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=292238>
14. Schulz, M.; Fleet, D.M.; Camphuysen, K.C.J.; Schulze-Dieckhoff, M.; Laursen, K. (2017). Oil pollution and seabirds, in: Kloepper, S. et al. Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=292233>
15. Tulp, I.; Bolle, L.J.; Dänhardt, A.; de Vries, P.; Haslob, H.; Jepsen, N.; Scholle, J.; van der Veer, H.W. (2017). Fish, in: Kloepper, S. et al. Wadden Sea Quality Status Report 2017.
<http://imis.nioz.nl/imis.php?module=ref&refid=292231>
16. van Belzen, J.; van de Koppel, J.; Kirwan, M.L.; Guntenspergen, G.R.; Bouma, T.J. (2017). Disturbance-recovery experiments to assess resilience of ecosystems along a stress gradient. Protocol Exchange June 2017.
<https://dx.doi.org/10.1038/protex.2017.028>
17. van Belzen, J.; van de Koppel, J.; van der Wal, D.; Herman, P.M.J.; Dakos, V.; Kéfi, S.; Scheffer, M.; Bouma, T.J. (2017). Timing recovery of ecosystems in sequential remotely sensed and simulated data. Protocol Exchange June 2017.
<https://dx.doi.org/10.1038/protex.2017.038>

PUBLICATIONS AIMED AT THE GENERAL PUBLIC

1. Busschers, F.; Hijma, M.; Stocchi, P.; Reichart, G.-J.; van Heteren, S. (2017). De Vroeg-Holo-cene verdrinking van de Noordzee. Geo.brief 7
2. Cadée, G.C.; Poszig, D.; Loning, W.; Dekker, R. (2017). Mosdiertjes op plastic. Het Zeepaard 77(3): 105-107
3. Cadée, G.C., 2017. Belevenissen langs Texels waddenkust. Blad Afd, KNNV Alkmaar en Om-streken, 49: 10-11.
4. Cadée, G.C., 2017. Bergeendkuilen langs de Sluftergeul, Texel. Blad, Afd. KNNV Alkmaar e.o., 48: 6-7.
5. Cadée, G.C., 2017. De naturaliën van het kabinet. In: P. van Duin (ed.) Verzamelaarskabinet met miniatuur apotheek. Rijksmuseum: p. 19-21, 80-99.
6. Cadée, G.C., 2017. Gele hoornpapaver bloeide op Ceres. Tex. Courant 2 Juni
7. Cadée, G.C.; Kruiswijk, W. (2017). Raadsel betelnoten op ons strand definitief opgelost. Het Zeepaard 77(4): 175-176
8. Cadée, G.C. 2017. Reuzenalk ook op Texel? SKOR 36(1): 23-25.
9. Cadée, G.C. (2017). Jan Verwey 1899-1981, een bevoorrecht mens. Natura (Amst.) 2017(4): 10-13
10. Cadée, G.C. (2017). Mark Dion's zeebeesten in het Gemeentemuseum Den Haag. Het Zeepaard 77(5): 219-220
11. Cadée, G.C. (2017). Microboorders in schelpen en hun begrazers. Afzettingen WTKG 38(4): 5-7
12. Cadée, G.C. (2017). Reparatie en aangroei bij strandkrabbenschilden. Het Zeepaard 77(4):



158-162

13. Cadée, G.C. (2017). Sporen van zuigwormen (trematoden) op schelpen. *Natura (Amst.)* 2017(4): 19
14. Cadée, G.C. (2017). Trematode sporen op bivalven van Texels strand. *Afzettingen WTKG* 38(2): 33-36
15. de Jager, C.; Nieuwenhuijzen, H.; Nieuwenhuizen, A. (2017). De zon en het klimaat. *Zenit* maart: 30-34
16. Piersma, T. (2017). Wat vertellen trekvogels ons over de staat van het klimaat?, in: de Graaf, B. et al. *Hoe zwaar is licht : meer dan 100 dringende vragen aan de wetenschap*. pp. 230-232

70 %

of our Blue Planet
is covered by water.

98 %

Oceans contain 98% of all
CO₂ on planet earth.

80 %

of all life on earth can
be found in the oceans.

5 %

Less than 5% of the ocean
floor has been mapped.



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



Netherlands Organisation
for Scientific Research



Utrecht University