

Publication record research focus 2 (2016-2018)

July 2019

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| Total: | 125 |
| Articles in peer-reviewed journals | 114 |
| Articles in other journals | 1 |
| Monographs | 2 |
| Editorship of edited volumes | 1 |
| Individual contributions to edited volumes | 7 |
| Work and discussion papers | 0 |

Articles in peer-reviewed journals (114)

Anistratenko, V. V., M. L. Zettler^{BIO} and O. Y. Anistratenko (2017). On the taxonomic relationship between *Theodoxus pallasii* and *T. astrachanicus* (Gastropoda: Neritidae) from the Ponto-Caspian region. **Arch. Molluskenkd.** **146**: 213-226, doi: 10.1127/arch.moll/146/213-226 **FS2 BED Basin-scale Ecosystem Dynamics**

Asmala, E., J. Carstensen, D. J. Conley, C. P. Slomp, J. Stadmark and M. Voss^{BIO} (2017). Efficiency of the coastal filter: Nitrogen and phosphorus removal in the Baltic Sea. **Limnol. Oceanogr.** **62**: S222-S238, doi: 10.1002/lno.10644 **FS2 BED Basin-scale Ecosystem Dynamics**

Bakker, D. C. E., B. Pfeil, C. S. Landa, N. Metzl, K. M. O'Brien, A. Olsen, K. Smith, C. Cosca, S. Harasawa, S. D. Jones, S.-i. Nakaoka, Y. Nojiri, U. Schuster, T. Steinhoff, C. Sweeney, T. Takahashi, B. Tilbrook, C. Wada, R. Wanninkhof, S. R. Alin, C. F. Balestrini, L. Barbero, N. R. Bates, A. A. Bianchi, F. Bonou, J. Boutin, Y. Bozec, E. F. Burger, W.-J. Cai, R. D. Castle, L. Chen, M. Chierici, K. Currie, W. Evans, C. Featherstone, R. A. Feely, A. Fransson, C. Goyet, N. Greenwood, L. Gregor, S. Hankin, N. J. Hardman-Mountford, J. Harlay, J. Hauck, M. Hoppema, M. P. Humphreys, C. W. Hunt, B. Huss, J. S. P. Ibanhez, T. Johannessen, R. Keeling, V. Kitidis, A. Koertzing, A. Kozyr, E. Krasakopoulou, A. Kuwata, P. Landschützer, S. K. Lauvset, N. Lefèvre, C. Lo Monaco, A. Manke, J. T. Mathis, L. Merlivat, F. J. Millero, P. M. S. Monteiro, D. R. Munro, A. Murata, T. Newberger, A. M. Omar, T. Ono, K. Paterson, D. Pearce, D. Pierrot, L. L. Robbins, S. Saito, J. Salisbury, R. Schlitzer, B. Schneider^{CHE}, R. Schweitzer, R. Sieger, I. Skjelvan, K. F. Sullivan, S. C. Sutherland, A. J. Sutton, K. Tadokoro, M. Telszewski, M. Tuma, S. M. A. C. van Heuven, D. Vandemark, B. Ward, A. J. Watson and S. Xu (2016). A multi-decade record of high-quality fCO₂ data in version 3 of the Surface Ocean CO₂ Atlas (SOCAT). **Earth Syst. Sci. Data** **8**: 383-413, doi: 10.5194/essd-8-383-2016 **FS2 BED Basin-scale Ecosystem Dynamics**

Barcelos e Ramos, J., K. G. Schulz, M. Voss^{BIO}, Á. Narciso, M. N. Müller, F. V. Reis, M. Cachão and E. B. Azevedo (2017). Nutrient-specific responses of a phytoplankton community: a case study of the North Atlantic Gyre, Azores. **J. Plankton Res.** **39**: 744-761, doi: 10.1093/plankt/fbx025 **FS2 BED Basin-scale Ecosystem Dynamics**

Bartl, I.^{BIO}, I. Liskow^{BIO}, K. Schulz^{PHY}, L. Umlauf^{PHY} and M. Voss^{BIO} (2018). River plume and bottom boundary layer - Hotspots for nitrification in a coastal bay? *Estuar. Coast. Shelf Sci.* **208**: 70-82, doi: 10.1016/j.ecss.2018.04.023 **FS2 BED Basin-scale Ecosystem Dynamics**

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

Berga, M.^{BIO}, Y. Zha, A. J. Székely and S. Langenheder (2017). Functional and compositional stability of bacterial metacommunities in response to salinity changes. *Front. Microbiol.* **8**: 948, doi: 10.3389/fmicb.2017.00948 **FS2 BED Basin-scale Ecosystem Dynamics**

Bergen, B.^{BIO}, M. Naumann^{PHY}, D. P. R. Herlemann^{BIO}, U. Gräwe^{PHY}, M. Labrenz^{BIO} and K. Jürgens^{BIO} (2018). Impact of a Major inflow event on the composition and distribution of bacterioplankton communities in the Baltic Sea. *Front. Mar. Sci.* **5**: 383, doi: 10.3389/fmars.2018.00383 **FS2 BED Basin-scale Ecosystem Dynamics**

Böckmann, S., M. Seidler, H. Schubert and S. Kube^{DIR} (2018). Population genetics of two allopatric (North Sea and Baltic Sea) populations of *Evadne nordmanni* (Podonidae): Similarities and differences. *Int. Rev. Hydrobiol.* **103**: 54-62, doi: 10.1002/iroh.201701930 **FS2 BED Basin-scale Ecosystem Dynamics**

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

Burchard, H.^{PHY}, N. B. Basdurak^{PHY}, U. Gräwe^{PHY}, M. Knoll, V. Mohrholz^{PHY} and S. Müller^{PHY} (2017). Salinity inversions in the thermocline under upwelling favorable winds. *Geophys. Res. Lett.* **44**: 1422-1428, doi: 10.1002/2016GL072101 **FS2 BED Basin-scale Ecosystem Dynamics**

Burchard, H.^{PHY}, K. Bolding, R. Feistel^{PHY}, U. Gräwe^{PHY}, K. Klingbeil^{PHY}, P. MacCready, V. Mohrholz^{PHY}, L. Umlauf^{PHY} and E. M. v. d. Lee^{PHY} (2018). The Knudsen theorem and the Total Exchange Flow analysis framework applied to the Baltic Sea. *Prog. Oceanogr.* **165**: 268-286, doi: 10.1016/j.pocean.2018.04.004 **FS2 BED Basin-scale Ecosystem Dynamics**

Burchard, H.^{PHY}, H. M. Schuttelaars and D. K. Ralston (2018). Sediment trapping in estuaries. *Annu. Rev. Mar. Sci.* **10**: 371-395, doi: 10.1146/annurev-marine-010816-060535 **FS2 BED Basin-scale Ecosystem Dynamics**

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

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

Cahill, B. ^{PHY}, R. Toumi, G. Stenchikov, S. Osipov and H. Brindley (2017). Evaluation of thermal and dynamic impacts of summer dust aerosols on the Red Sea. **J. Geophys. Res. Oceans** **122**: 1325-1346, doi: 10.1002/2016JC011911 **FS2 BED Basin-scale Ecosystem Dynamics**

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

Comte, J., M. Berga ^{BIO}, I. Severin, J. B. Logue and E. S. Lindström (2017). Contribution of different bacterial dispersal sources to lakes: Population and community effects in different seasons. **Environ. Microbiol.** **19**: 2391-2404, doi: 10.1111/1462-2920.13749 **FS2 BED Basin-scale Ecosystem Dynamics**

Dellwig, O. ^{GEO}, B. Schmetger, D. Meyer, F. Pollehne ^{BIO}, K. Häusler ^{GEO} and H. W. Arz ^{GEO} (2018). Impact of the major Baltic inflow in 2014 on manganese cycling in the Gotland Deep (Baltic Sea). **Front. Mar. Sci.** **5**: 248, doi: 10.3389/fmars.2018.00248 **FS2 BED Basin-scale Ecosystem Dynamics**

Eberlein, T., D. B. Van de Waal, K. M. Brandenburg, U. John, M. Voss ^{BIO}, E. P. Achterberg and B. Rost (2016). Interactive effects of ocean acidification and nitrogen limitation on two bloom-forming dinoflagellate species. **Mar. Ecol. Prog. Ser.** **543**: 127-140, doi: 10.3354/meps11568 **FS2 BED Basin-scale Ecosystem Dynamics**

Egger, M., M. Hagens, C. J. Sapart, N. Dijkstra, N. A. G. M. van Helmond, J. M. Mogollón, N. Risgaard-Petersen, C. van der Veen, S. Kasten, N. Riedinger, M. E. Böttcher ^{GEO}, T. Röckmann, B. B. Jørgensen and C. P. Slomp (2017). Iron oxide reduction in methane-rich deep Baltic Sea sediments. **Geochim. Cosmochim. Acta** **207**: 256-276, doi: 10.1016/j.gca.2017.03.019 **FS1 SMP Small- and meso-scale processes; FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

Eisenbarth, S. and M. L. Zettler ^{BIO} (2016). Diversity of the benthic macrofauna off northern Namibia from the shelf to the deep sea. **J. Mar. Syst.** **155**: 1-10, doi: 10.1016/j.jmarsys.2015.10.017 **FS2 BED Basin-scale Ecosystem Dynamics**

Ekau, W., H. Auel, W. Hagen, R. Koppelman, N. Wasmund ^{BIO}, K. Bohata, F. Buchholz, S. Geist, B. Martin, A. Schukat, H. M. Verheye and T. Werner (2018). Pelagic key species and mechanisms driving energy flows in the northern Benguela upwelling ecosystem and their feedback into biogeochemical cycles. **J. Mar. Syst.** **188**: 49-62, doi: 10.1016/j.jmarsys.2018.03.001 **FS2 BED Basin-scale Ecosystem Dynamics**

Emeis, K., A. Eggert ^{PHY}, A. Flohr, N. Lahajnar, G. Nausch ^{CHE}, A. Neumann, T. Rixen, M. Schmidt ^{PHY}, A. Van der Plas and N. Wasmund ^{BIO} (2018). Biogeochemical processes and turnover rates in the

Northern Benguela Upwelling System. *J. Mar. Syst.* **188**: 63-80, doi: 10.1016/j.jmarsys.2017.10.001
FS2 BED Basin-scale Ecosystem Dynamics

Endler, M.^{GEO}, R. Endler^{GEO}, J. Wunderlich, B. Bobertz, T. Leipe,^{GEO} M. Moros^{GEO}, J. B. Jensen and H. W. Arz^{GEO} (2016). Geo-acoustic modelling of late and postglacial sedimentary units in the Baltic Sea and their acoustic visibility. *Mar. Geol.* **376**: 86-101, doi: 10.1016/j.margeo.2016.03.015 **FS2 BED Basin-scale Ecosystem Dynamics**

Fernández-Carrera, A., K. L. Rogers, S. C. Weber^{BIO}, J. P. Chanton and J. P. Montoya (2016). Deep Water Horizon oil and methane carbon entered the food web in the Gulf of Mexico. *Limnol. Oceanogr.* **61**: S387-S400, doi: 10.1002/lno.10440 **FS2 BED Basin-scale Ecosystem Dynamics**

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

Gogina, M.^{BIO}, C. Morys, S. Forster, U. Gräwe^{PHY}, R. Friedland^{KMP} and M. L. Zettler^{BIO} (2017). Towards benthic ecosystem functioning maps: quantifying bioturbation potential in the German part of the Baltic Sea. *Ecol. Indic.* **73**: 574-588, doi: 10.1016/j.ecolind.2016.10.025 **FS2 BED Basin-scale Ecosystem Dynamics; FS4 CSS Coastal Seas and Society**

Gogina, M.^{BIO}, H. Nygård, M. Blomqvist, D. Daunys, A. B. Josefson, J. Kotta, A. Maximov, J. Warzocha, V. Yermakov, U. Gräwe^{PHY} and M. L. Zettler^{BIO} (2016). The Baltic Sea scale inventory of benthic faunal communities. *ICES Journal of Marine Science: Journal du Conseil* **73**: 1196-1213, doi: 10.1093/icesjms/fsv265 **FS2 BED Basin-scale Ecosystem Dynamics**

Goldstein, J.^{BIO}, C. B. Augustin^{BIO}, S. Bleich and S. Holst (2017). A matter of tolerance: Distribution potential of scyphozoan polyps in a changing environment. *Mar. Ecol.-Evol. Persp.* **38**: e12457, doi: 10.1111/maec.12457 **FS2 BED Basin-scale Ecosystem Dynamics**

Grasso, F., R. Verney, P. Le Hir, B. Thouvenin, E. Schulz^{PHY}, Y. Kervella, I. Khojasteh Pour Fard, J. P. Lemoine, F. Dumas and V. Garnier (2018). Suspended sediment dynamics in the macrotidal Seine Estuary (France) - Part 1: Numerical modeling of turbidity maximum dynamics. *J. Geophys. Res. Oceans* **123**: 558-577, doi: 10.1002/2017JC013185 **FS2 BED Basin-scale Ecosystem Dynamics**

Gräwe, U.^{PHY}, G. Floser, T. Gerkema, M. Duran-Matute, T. H. Badewien, E. Schulz^{PHY} and H. Burchard^{PHY} (2016). A numerical model for the entire Wadden Sea: skill assessment and analysis of hydrodynamics. *J. Geophys. Res. Oceans* **121**: 5231-5251, doi: 10.1002/2016JC011655 **FS2 BED Basin-scale Ecosystem Dynamics**

Haileselasie, T. H., J. Mergeay, L. J. Weider, R. Sommaruga, T. A. Davidson, M. Meerhoff, H. Arndt, K. Jürgens^{BIO}, E. Jeppesen and L. De Meester (2016). Environment not dispersal limitation drives clonal composition of Arctic *Daphnia* in a recently deglaciated area. *Mol. Ecol.* **25**: 5830-5842, doi: 10.1111/mec.13843 **FS2 BED Basin-scale Ecosystem Dynamics**

Hammer, K.^{CHE}, B. Schneider^{CHE}, K. Kuliński and D. E. Schulz-Bull^{CHE} (2017). Acid-base properties of Baltic Sea dissolved organic matter. *J. Mar. Syst.* **173**: 114-121, doi: 10.1016/j.jmarsys.2017.04.007

FS2 BED Basin-scale Ecosystem Dynamics
FS1 SMP Small- and meso-scale processes

Happel, E., I. Bartl^{BIO}, M. Voss^{BIO} and L. Riemann (2018). Extensive nitrification and active ammonia oxidizers in two contrasting coastal systems of the Baltic Sea. *Environ. Microbiol.* **20**: 2913-2926, doi: 10.1111/1462-2920.14293 **FS2 BED Basin-scale Ecosystem Dynamics**

Helleman, D., P. Tallberg, I. Bartl^{BIO}, M. Voss^{BIO} and S. Hietanen (2017). Denitrification in an oligotrophic estuary: a delayed sink for riverine nitrate. *Mar. Ecol. Prog. Ser.* **583**: 63-80, doi: 10.3354/meps12359 **FS2 BED Basin-scale Ecosystem Dynamics**

Herlemann, D. P. R.^{BIO}, D. Lundin, A. F. Andersson, M. Labrenz^{BIO} and K. Jürgens^{BIO} (2016). Phylogenetic signals of salinity and season in bacterial community composition across the salinity gradient of the Baltic Sea. *Front. Microbiol.* **7**: 1883, doi: 10.3389/fmicb.2016.01883 **FS2 BED Basin-scale Ecosystem Dynamics**

Herlemann, D. P. R.^{BIO}, M. Manecki, T. Dittmar and K. Jürgens^{BIO} (2017). Differential responses of marine, mesohaline and oligohaline bacterial communities to the addition of terrigenous carbon. *Environ. Microbiol.* **19**: 3098-3117, doi: 10.1111/1462-2920.13784 **FS2 BED Basin-scale Ecosystem Dynamics**

Hu, Y. O. O., B. Karlson, S. Charvet^{BIO} and A. F. Andersson (2016). Diversity of pico- to mesoplankton along the 2000 km salinity gradient of the Baltic Sea. *Front. Microbiol.* **7**: 679, doi: 10.3389/fmicb.2016.00679 **FS2 BED Basin-scale Ecosystem Dynamics**

James, R. H., P. Bousquet, I. Bussmann, M. Haeckel, R. Kipfer, I. Leifer, H. Niemann, I. Ostrovsky, J. Piskozub, G. Rehder^{CHE}, T. Treude, L. Vielstädte and J. Greinert (2016). Effects of climate change on methane emissions from seafloor sediments in the Arctic Ocean: a review. *Limnol. Oceanogr.* **61**: S283-S299, doi: 10.1002/lno.10307 **FS2 BED Basin-scale Ecosystem Dynamics**

Jäntti, H., B. B. Ward, J. W. Dippner^{BIO} and S. Hietanen (2018). Nitrification and the ammonia-oxidizing communities in the central Baltic Sea water column. *Estuar. Coast. Shelf Sci.* **202**: 280-289, doi: 10.1016/j.ecss.2018.01.019 **FS2 BED Basin-scale Ecosystem Dynamics**

Jaspers, C., B. Huwer, E. Antajan, A. Hosiá, H.-H. Hinrichsen, A. Biastoch, D. Angel, R. Asmus, C. Augustin^{BIO}, S. Bagheri, S. E. Beggs, T. J. S. Balsby, M. Boersma, D. Bonnet, J. T. Christensen, A. Dänhardt, F. Delpy, T. Falkenhaus, G. Finenko, N. E. C. Fleming, V. Fuentes, B. Galil, A. Gittenberger, D. C. Griffin, H. Haslob, J. Javidpour, L. Kamburska, S. Kube, V. T. Langenberg, M. Lehtiniemi, F. Lombard, A. Malzahn, M. Marambio, V. Mihneva, L. F. Møller, U. Niermann, M. I. Okyar, Z. B. Özdemir, S. Pitois, T. B. H. Reusch, J. Robbens, K. Stefanova, D. Thibault, H. W. van der Veer, L. Vansteenbrugge, L. van Walraven and A. Woźniczka (2018). Ocean current connectivity propelling

the secondary spread of a marine invasive comb jelly across western Eurasia. **Glob. Ecol. Biogeogr.** **27**: 814-827, doi: doi:10.1111/geb.12742 **FS2 BED Basin-scale Ecosystem Dynamics**

Junker, T.^{PHY}, V. Mohrholz^{PHY}, L. Siegfried^{PHY} and A. van der Plas (2017). Seasonal to interannual variability of water mass characteristics and currents on the Namibian shelf. **J. Mar. Syst.** **165**: 36-46, doi: 10.1016/j.jmarsys.2016.09.003 **FS2 BED Basin-scale Ecosystem Dynamics**

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

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

Klier, J.^{BIO}, O. Dellwig^{GEO}, T. Leipe^{GEO}, K. Jürgens^{BIO} and D. P. R. Herlemann^{BIO} (2018). Benthic bacterial community composition in the oligohaline-marine transition of surface sediments in the Baltic Sea based on rRNA analysis. **Front. Microbiol.** **9**: 236, doi: 10.3389/fmicb.2018.00236 **FS2 BED Basin-scale Ecosystem Dynamics**

Klingbeil, K.^{PHY}, F. Lemarié, L. Debreu and H. Burchard^{PHY} (2018). The numerics of hydrostatic structured-grid coastal ocean models: State of the art and future perspectives. **Ocean Model.** **125**: 80-105, doi: 10.1016/j.ocemod.2018.01.007 **FS2 BED Basin-scale Ecosystem Dynamics**

Kolzau, S., A. M. Dolman, M. Voss^{BIO} and C. Wiedner (2018). The response of nitrogen fixing cyanobacteria to a reduction in nitrogen loading. **Int. Rev. Hydrobiol.** **103**: 5-14, doi: 10.1002/iroh.201601882 **FS2 BED Basin-scale Ecosystem Dynamics**

Kuliński, K., K. Hammer^{CHE}, B. Schneider^{CHE} and D. Schulz-Bull^{CHE} (2016). Remineralization of terrestrial dissolved organic carbon in the Baltic Sea. **Mar. Chem.** **181**: 10-17, doi: 10.1016/j.marchem.2016.03.002 **FS2 BED Basin-scale Ecosystem Dynamics**

Kuliński, K., B. Schneider^{CHE}, B. Szymczycha and M. Stokowski (2017). Structure and functioning of the acid-base system in the Baltic Sea. **Earth Syst. Dynam.** **8**: 1107-1120, doi: 10.5194/esd-8-1107-2017 **FS2 BED Basin-scale Ecosystem Dynamics**

Kuss, J.^{CHE}, F. Cordes, V. Mohrholz^{PHY}, G. Nausch^{CHE}, M. Naumann^{PHY}, S. Krüger^{PHY} and D. E. Schulz-Bull^{CHE} (2017). The impact of the Major Baltic Inflow of December 2014 on the mercury species

distribution in the Baltic Sea. **Environ. Sci. Technol.** **51**: 11692-11700, doi: 10.1021/acs.est.7b03011
FS2 BED Basin-scale Ecosystem Dynamics

Le Quéré, C., R. M. Andrew, P. Friedlingstein, S. Sitch, J. Hauck, J. Pongratz, P. A. Pickers, J. I. Korsbakken, G. P. Peters, J. G. Canadell, A. Arneeth, V. K. Arora, L. Barbero, A. Bastos, L. Bopp, F. Chevallier, L. P. Chini, P. Ciais, S. C. Doney, T. Gkritzalis, D. S. Goll, I. Harris, V. Haverd, F. M. Hoffmann, M. Hoppema, R. A. Houghton, G. Hurtt, T. Ilyina, A. K. Jain, T. Johannessen, C. D. Jones, E. Kato, R. F. Keeling, K. Klein Goldwijk, P. Landschützer, N. Lefèvre, S. Lienert, Z. Liu, D. Lombardozzi, N. Metzler, D. R. Munro, J. E. M. S. Nabel, S.-i. Nakaoka, C. Neill, A. Olsen, T. Ono, P. Patra, A. Peregon, W. Peters, P. Peylin, B. Pfeil, D. Pierrot, B. Poulter, G. Rehder^{CHE}, L. Resplandy, E. Robertson, M. Rocher, C. Rödenbeck, U. Schuster, J. Schwinger, R. Séférian, I. Skjelvan, T. Steinhoff, A. Sutton, P. P. Tans, H. Tian, B. Tilbrook, F. N. Tubiello, I. T. van der Laan-Luijkx, G. R. Van der Werf, N. Viovy, A. P. Walker, A. J. Wiltshire, R. Wright, S. Zaehle and B. Zheng (2018). Global Carbon Budget 2018. **Earth Syst. Sci. Data** **10**: 2141-2194, doi: 10.5194/essd-10-2141-2018 **FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

Le Quéré, C., R. M. Andrew, P. Friedlingstein, S. Sitch, J. Pongratz, A. C. Manning, J. I. Korsbakken, G. P. Peters, J. G. Canadell, R. B. Jackson, T. A. Boden, P. P. Tans, O. D. Andrews, V. K. Arora, D. C. E. Bakker, L. Barbero, M. Becker, R. A. Betts, L. Bopp, F. Chevallier, L. P. Chini, P. Ciais, C. E. Cosca, J. Cross, K. Currie, T. Gasser, I. Harris, J. Hauck, V. Haverd, R. A. Houghton, C. W. Hunt, G. Hurtt, T. Ilyina, A. K. Jain, E. Kato, M. Kautz, R. F. Keeling, K. K. Goldewijk, A. Koertzing, P. Landschuetzer, N. Lefevre, A. Lenton, S. Lienert, I. Lima, D. Lombardozzi, N. Metzler, F. Millero, P. M. S. Monteiro, D. R. Munro, J. E. M. S. Nabel, S.-i. Nakaoka, Y. Nojiri, X. A. Padin, A. Peregon, B. Pfeil, D. Pierrot, B. Poulter, G. Rehder^{CHE}, J. Reimer, C. Roedenbeck, J. Schwinger, R. Seferian, I. Skjelvan, B. D. Stocker, H. Tian, B. Tilbrook, F. N. Tubiello, I. T. van der Laan-Luijkx, G. R. van der Werf, S. van Heuven, N. Viovy, N. Vuichard, A. P. Walker, A. J. Watson, A. J. Wiltshire, S. Zaehle and D. Zhu (2018). Global Carbon Budget 2017. **Earth Syst. Sci. Data** **10**: 405-448, doi: 10.5194/essd-10-405-2018 **FS2 BED Basin-scale Ecosystem Dynamics; FS3 CES Changing Ecosystems**

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