

MOSSCO

Vorträge

Chegini, F., Holtermann, P., Kreuz, M., Gräwe, U., Klingbeil, K., Kerimoglu, O., Winter, C., Burchard, H., 2019. Investigating processes of stratification and de-stratification in a high resolution model of the German Bight, European geosciences union, Vienna, Austria (2019)

Friedland, R., Neumann, T., Schernewski, G., 2014. The good ecological state of the Baltic lagoons – defined by using the historical nutrient loads and achieved with the new BSAP? Talk, Littoral 2014, Klaipeda, (2014)

Friedland, R., Buer, A.-L., Dahlke, S., Paysen, S., Schernewski, G., 2016. Water quality in Szczecin Lagoon (past, present, future) - Integrating modelling and observations, In SMHI Seminar, Gothenburg, Sweden (2016)

Friedland, R., Buer, A.L., Dahlke, S., Inacio, M., Paysen, S., Schernewski, G., Schumacher, J., Stybel, N., 2017d. Nutrient retention measure in German Baltic Sea waters – potentials and limits of some eco-technologies. 11th Baltic Sea Science Congress 2017, Rostock, Deutschland (2017)

Friedland, R., Paysen, S., Schernewski, G., 2018. Using Water Transparency as Water Quality Indicator in a Baltic Coastal Water, EuroLag8, Athen, Griechenland (2018)

Friedland, R., Buer, A.L., Dahlke, S., Maar, M., Meyers, L., Ritzenhofen, L., Schernewski, G., Schumacher, J., Stybel, N., 2017b. The potential use of mussel farms in German coastal waters as an option to improve water quality, BONUS Symposium 2017, Tallin, Estland (2017)

Hofmeister, R., Lemmen, C., Kerimoglu, O., Wirtz, K.W., Nasermoaddeli, M.H., 2014. The predominant processes controlling vertical nutrient and suspended matter fluxes across domains - using the new MOSSCO system from coastal sea sediments up to the atmosphere, in: Lehfeldt, R., Kopmann (Eds.), 11th International Conference on Hydroscience and Engineering, Talk, Hamburg, Germany (2014)

Hofmeister, R., Lemmen, C., Klingbeil, K., Nasermoaddeli, M.H., Wirtz, K.W., 2015. Data, models , and views : Towards modular integration of numeric components in aquatic sciences, in: American Society for Limnology and Oceanography, Talk, Granada, Spain (2015)

Inácio, M., Schernewski, G., Nazemtseva, Y., Friedland, R., 2016. An Ecosystem Service Assessment tool for coastal lagoons and first application, Eurolag 7, Talk, Murcia, Spanien (04. March 2016)

Inacio, M., Schernewski, G., Nazemtseva, Y., Paysen, P., Friedland, R., 2018. Comparing the provision of ecosystem services of different coastal lagoons in the southern Baltic Sea, EuroLag8, Athen, Griechenland (2018)

Kerimoglu, O., Eisele, A., Grage, A., Große, F., Kreuz, M., Lenhart, H., Leujak, W., van Beusekom, J., Wirtz, K.W., 2017. Modeling the past, current and future states of the biogeochemistry of the SNS as a contribution to defining the ecological and environmental standards, In Advances in Marine Ecosystem Modeling Research, Plymouth, UK (03. – 07. July 2017)

Kerimoglu, O., Hofmeister, R., Maerz, J., Riethmüller, R., Wirtz, K., 2017. Description and performance assessment of a 3-D coupled physical biogeochemical model of the southern North Sea, In Advances in Marine Ecosystem Modeling Research, Plymouth, UK (03. – 07. July 2017)

Kerimoglu, O., Hofmeister, Wirtz, K. 2017. An acclimative phytoplankton growth model and its application to the southern North Sea, DynaTrait International Conference, Hannover, Germany (09. – 13. October 2017)

Kerimoglu, O., Wirtz, K. W., 2016. A novel adaptive biogeochemical model, and its 3-D application for a decadal hindcast simulation of the biogeochemistry of the southern North Sea, In European Geosciences Union General Assembly (2016)

- Kerimoglu, O., Eisele, A., Grage, A., Große, F., Kreuz, M., Lenhart, H.-J., Wirtz, K. W., 2017. Modeling the past, current and future states of the biogeochemistry of the SNS as a contribution to defining the ecological and environmental standards, In *Advances in Marine Ecosystem Modeling Research*, Plymouth, United Kingdom (2017)
- Kerimoglu, O., Hofmeister, R., Wirtz, K. W., 2016. A decadal hindcast of the southern North Sea, In *PACES-II, Topic-2 meeting*, Hamburg, Germany (2016)
- Kerimoglu, O., Hofmeister, R., Wirtz, K. W., 2016. Modelling autotrophic acclimation: Southern North Sea as a case study, In *YOUMARES (7)*, (2016)
- Kerimoglu, O., Hofmeister, R., Wirtz, K. W., 2017. An acclimative phytoplankton growth model and its application to the southern North Sea, In *DynaTrait International Conference*, Hannover, Germany (2017)
- Kerimoglu, O., Hofmeister, R., Maerz, J., Riethmüller, R., Wirtz, K. W., 2017. Description and performance assessment of a 3-D coupled physical biogeochemical model of the southern North Sea, In *Advances in Marine Ecosystem Modeling Research*, Plymouth, United Kingdom (2017)
- Kerimoglu, O., Wirtz, K. W., Hofmeister, R., Maerz, J., Riethmüller, R., 2017. Application of an acclimative phytoplankton model to a coastal ecosystem, In *Trait-Based Approaches to Marine Life*, Bergen, Norway (2017)
- Klingbeil, K., 2013. Projektvorstellung: MOSSCO. Workshop Maritime Systeme, in: *Workshop Maritiime Systeme*, Talk, Universität Rostock, Rostock, Germany (2013)
- Klingbeil, K., Gräwe, U., Burchard, H., Bolding, K., Büchmann, B., 2015. The coastal ocean model GETM. *Marine Systems Institute, Tallinn University of Technology*, Talk, Estonia (2015)
- Klingbeil, K., Gräwe, U., Holtermann, P., Burchard, H., 2015. Latest Developments with GETM. *Modellierertreffen BSH und IOW*, Talk, (2015)
- Klingbeil, K., Gräwe, U., Burchard, H., 2013. Neueste Entwicklungen in GETM und deren Relevanz für MOSSCO, *Talk, KüNO Kickoff Meeting* (2013)
- Klingbeil, K., Moghimi, S., Gräwe, U., Burchard, H., 2013. Coupling of the coastal ocean model GETM and the statistical wind wave model SWAN, *Coupling workshop Schnakenbek*, Talk (2013)
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2016. Local quantification of numerically-induced mixing and dissipation, *EGU, Talk, Vienna, Austria* (2016)
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2015. Quantification of spurious mixing and dissipation and the effect of vertically adaptive meshes. *MFO Workshop on Recent Developments in the Numerics of Nonlinear Hyperbolic Conservation Laws*, Talk, Oberwolfach, Germany (2015) Link
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2015. Quantification of spurious mixing and dissipation and the effect of vertically adaptive meshes, *Workshop „Energy transfers in atmosphere and ocean“*, Talk, Hamburg, Germany (2015)
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2014. Quantification of spurious dissipation and mixing --- Discrete Variance Decay in a Finite-Volume framework, *HydroSeminar*, Talk, Bergen, Norway (2014)
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2014. Quantification of spurious dissipation and mixing --- or --- Is it worth to develop sophisticated internal wave parameterisations for Baltic Sea models?, *Workshop International Leibniz Graduate School for Gravity Waves and Turbulence in the Atmosphere and Ocean*, Talk, Leipzig, Germany (2014)
- Klingbeil, K., Mohammadi-Aragh, M., Gräwe, U., Burchard, H., 2013. Analysis of spurious dissipation and mixing in mesoscale and submesoscale simulations, *Warnemünde Turbulence Days*, Talk, Warnemünde, Germany (2013)
- Klingbeil, K., Schüler, L., Bruggeman, J., Bolding, K., 2016. Turning GOTM into a lake model. *Helmholtz Centre for Environmental Research (UFZ), Department of Lake Research*, Talk, Magdeburg (2016)

- Klingbeil, K., 2016. Recent developments in the numerical methods of the coastal ocean model GETM, Leibniz MMS Workshop Berlin (2016)
- Kuznetsov, I., Kerimoglu, O., Androsov, A., Fofonova, V., Lemmen, C., Brix, H., 2017. Multi scale ecosystem modeling on an unstructured-mesh for shelf seas and estuaries, in: *Advances in Marine Ecosystem Modelling Research*, Plymouth Marine Laboratory, Plymouth, United Kingdom (2017)
- Lemmen, C., 2013. The Earth System Modeling Framework, 1st International Workshop on Modular Coupling. Talk, Schnakenbek, Germany.
- Lemmen, C., Burchard, H., Hofmeister, R., Klingbeil, K., Nasermoaddeli, M.H., Kerimoglu, O., Kösters, F., Wirtz, K.W., 2016. Modelling biogeochemistry Across Domains with The Modular System for Shelves and Coasts (MOSSCO), American Society for Limnology and Oceanography Ocean Sciences Meeting, Talk, New Orleans, USA (2016)
- Lemmen, C., Hofmeister, R., Kerimoglu, O., Wirtz, K.W., 2016. Towards a 50-year climate state of ecology and biogeochemistry in the German Seas, John von Neumann Institute for Computing Symposium, Talk (2016)
- Lemmen, C., Hofmeister, R., Nasermoaddeli, M.H., Kerimoglu, O., et al., 2015. Modular System for Shelves and Coasts (MOSSCO) Coupling biological processes to Earth System Models, 3rd Workshop on Coupling Technologies for Earth System Models, Talk, Manchester, United Kingdom (2015)
- Lemmen, C., Hofmeister, R., Nasermoaddeli, M.H., Kerimoglu, O., Klingbeil, K., Kösters, F., Burchard, H., Wirtz, K.W., 2016. Coupling biological processes to Earth System Models, in: *Institute of Energy and Climate Research Seminar*. Jülich, Germany.
- Lemmen, C., Kapitza, H., 2013. Coupling Components Using ESMF, KüNO Kickoff Meeting, Talk, Hamburg, Germany (2013)
- Lemmen, C., Burchard, H., Hofmeister, R., Klingbeil, K., Nasermoaddeli, M. H., Kerimoglu, O., Wirtz, K. W., 2016. Modelling biogeochemistry Across Domains with The Modular System for Shelves and Coasts (MOSSCO), In American Society for Limnology and Oceanography Ocean Sciences Meeting, New Orleans, USA (2016)
- Lemmen, C., Chegini, F., Holzwarth, I., Wirtz, K. W., 2018. The Statue of Estuarine BGC modeling, In *Küstensymposium*, Berlin, Germany (2018)
- Lemmen, C., Hofmeister, R., Kerimoglu, O., Wirtz, K. W., 2016. Towards a 50-year climate state of ecology and biogeochemistry in the German Seas, In *John von Neumann Institute for Computing Symposium* (2016)
- Lemmen, C., Hofmeister, R., Nasermoaddeli, M. H., Kerimoglu, O., Klingbeil, K., Kösters, F., Wirtz, K. W., 2016. Coupling biological processes to Earth System Models, In *Institute of Energy and Climate Research Seminar*, Jülich, Germany (2016)
- Lemmen, C., Hofmeister, R., Nasermoaddeli, M. H., Kerimoglu, O., Klingbeil, K., Kösters, F., Wirtz, K. W., 2019. Modular System for Shelves and Coasts a flexible and multi-component framework for coupled coastal ocean ecosystem modelling, In *NOAA Weekly Seminar Series*, Silver Spring, MD, United States (2019)
- Lemmen, C., MOSSCO Team, 2016. The Large-Scale impact of offshore windfarm structures on pelagic primary production in the southern North Sea, In *North Sea Open Science Conference*, Oostende, Belgium (2016)
- Lemmen, C., MOSSCO Team, 2017. The Modula System for Shelves and Coasts - enabling diverse applications, In *4th Coupling Technologies Workshop*, Princeton, NJ, USA (2017)
- Lemmen, C., Pein, J., Hofmeister, R., 2018. A coupled benthic-pelagic Elbe estuary modular modeling system, In *Gewässergütesymposium*, Koblenz, Germany (2018)
- Nasermoaddeli, M.H., Kösters, F., 2014. First Results of Modelling Benthos Influence on Sediment Entrainment Using a Generic Approach within the MOSSCO Framework, Lehfeld, R. (Ed.), 11th International Conference on Hydrosience and Engineering. Hamburg, Germany, pp. 625–631. (2014)

Nasermoaddeli, M.H., Lemmen, C., Hofmeister, R., Klingbeil, K., Kerimoglu, O., Kösters, F., Burchard, H., Wirtz, K.W., 2016. Does macrofauna affect suspended sediment distribution in large scale?, *Estuarine Coastal Sciences Association* 56. (2016)

Nasermoaddeli, M.H., Lemmen, C., Hofmeister, R., Kösters, F., Klingbeil, K., 2014. The Benthic Geoecology Model within the Modular System for Shelves and Coasts (MOSSCO), 11th International Conference on Hydroinformatics. (2014)

Nickelsen, L., Nasermoaddeli, M.H., 2016. Berücksichtigung von biogeochemischen und biologischen Effekten auf den Sedimenttransport, BAW Kolloquium, Talk, Hamburg, Germany (2016)

Nickelsen, L., Nasermoaddeli, M. H., 2016. Berücksichtigung von biogeochemischen und biologischen Effekten auf den Sedimenttransport, In BAW Kolloquium, Hamburg, Germany (2016)

Moghimi, S., Klingbeil, K., Gräwe, U., Burchard, H., 2013. Coupling of the coastal ocean model GETM and the statistical wind wave model SWAN, International Modular Coupling Workshop, Talk, Schnakenbek, Germany (2013)

Nasermoaddeli, M.H., 2013. Coupling of Deltares bed model with MOSSCO, International Modular Coupling Workshop, Talk, Schnakenbek, Germany (2013)

Nasermoaddeli, M.H., Kösters, F., Lemmen, C., Wirtz, K.W., Klingbeil, K., Hofmeister, R., Burchard, H., 2015. Modelling the effects of benthic organisms on sediment transport and the challenges, Symposium „Küste 2025“, Talk, Hamburg, Germany (2015)

Schernewski, G., Friedland, R., Neumann, T., 2013. Einsatz von Modellen in der Praxis: Beispiele und Herausforderungen, KüNO Kickoff Meeting, Talk, Hamburg, Germany (2013)

Schernewski, G., Allin, A., Friedland, R., Neumann, T., Radtke, H., 2015. Climate change effects on ecosystem services and costs in the Baltic Sea: Denitrification, International Workshop on Coastal Ecosystem Services at the Land-Sea Interface, Talk, Kiel, Germany (2015)

Slavik, K., Lemmen, C., Zhang, W., Kerimoglu, O., Wirtz, K.W., 2016. The large scale impact of offshore windfarm structures on pelagic primary production in the southern North Sea, North Sea Open Science Conference, Talk, Oostende, Belgium (2016)

Slavik, K., Lemmen, C., Zhang, W., Kerimoglu, O., Wirtz, K.W., 2016. The large scale impact of offshore windfarm structures on pelagic primary production in the southern North Sea, in: North Sea Open Science Conference, Oostende, Belgium (2016)

Wirtz, K.W., Hofmeister, R., Kerimoglu, O., Burchard, H., Klingbeil, K., Gräwe, U., Kösters, F., Nasermoaddeli, M.H., Lemmen, C., 2014. Modular Coupling in Marine Science: The MOSSCO Framework, *Advances in Marine Ecosystem Modeling Research*, Talk, Plymouth, United Kingdom (2014)

Wirtz, K. W., 2017. Looking and thinking beyond sensors: the modeling approach in coastal science, In Coastal Summer School on “How to govern marine environment: Baltic Sea and sediment services as a case study”, Lauenburg, Germany (10. – 21. September 2017)

Wirtz, K. W., Lemmen, C., Zhang, W., Singer, A., 2017. Working at the edge: Macrobenthic ecosystem engineering and its change in the Anthropocene, In *Advances in Marine Ecosystem Modelling Research*, Plymouth, United Kingdom: Plymouth Marine Laboratory (04. – 06. July 2017)

Wirtz, K.W., 2017. Looking and thinking beyond sensors: the modeling approach in coastal science, in: Coastal Summer School on “How to Govern Marine Environment: Baltic Sea and Sediment Services as a Case Study.”, Lauenburg, Germany (10. – 21. September 2017)

Wirtz, K.W., Lemmen, C., Zhang, W., Singer, A., 2017. Working at the edge: Macrobenthic ecosystem engineering and its change in the anthropocene, in: *Advances in Marine Ecosystem Modelling Research*, Plymouth Marine Laboratory, Plymouth, United Kingdom (04. – 06. July 2017)

Poster

Chegini, F., Holtermann, P., Kreuz, M., Kerimoglu, O., Winter, C., Gräwe, U., Klingbeil, K., Lemmen, C., Kösters, F., Wirtz, K., et al., 2018. High resolution (300 m) model of the German Bight, Poster, Coastal Ocean Modelling, Workshop, Hamburg, Germany (2018)

Friedland, R., Inácio, M., Schernewski, G., 2015. Linking Ecosystem Services: Secchi Depth as water quality indicator in Oder Lagoon, in: International Workshop on Coastal Ecosystem Services at the Land-Sea Interface, Poster, Kiel, Germany (2015)

Friedland, R., Grahl, Inacio, M., Neumann, T., Radtke, H., Schernewski, G., Siegel, H., 2015. Using Secchi Depth as water quality indicator of coastal waters, BSSC 10, Poster, Riga, Lettland (2015)

Friedland, R., Buer, A.L., Dahlke, S., Holtermann, P., Klingbeil, K., Lemmen, C., Meyers, L., Schernewski, G., Stybel, N., 2017d. Modelling the impact of a mussel farm on the water quality. Poster, 11th Baltic Sea Science Congress 2017, Rostock, Deutschland (2017)

Friedland, R., Buer, A.L., Dahlke, S., Ritzenhofen, L., Schernewski, G., 2017a. Nutrient retention measures in German Baltic Sea waters, Poster, Forschungscamp 2017, Rostock, Deutschland (2017)

Hofmeister, R., Lemmen, C., Nasermoaddeli, M.H., Klingbeil, K., Wirtz, K.W., 2015. Data, models, and views: towards integration of diverse numerical model components and data sets for scientific and public dissemination, in: Geophysical Research Abstracts, European Geophysical Union, Poster, EGU2015-7319, Vienna, Austria (2015)

Kerimoglu, O., Wirtz, K., Hofmeister, R., Maerz, J. Riethmüller, R., 2017. Application of an acclimative phytoplankton model to a coastal ecosystem, In Trait-Based Approaches to Marine Life, Bergen, Norway (19. – 23. August 2017)

Klingbeil, K., Lemmen, C., Nasermoaddeli, M.H., Hofmeister, R., Kerimoglu, O., Kösters, F., Burchard, H., Wirtz, K., 2015. MOSSCO - A generic model system for coastal ocean applications, Future Coast Europe, Poster, Berlin, Germany (2015)

Klingbeil, K., Lemmen, C., Nasermoaddeli, M.H., Hofmeister, R., Kerimoglu, O., Kreuz, M., Kösters, F., Burchard, H., Wirtz, K., 2015. MOSSCO - A generic model system for coastal ocean applications, Gordon Research Conferences, Poster, Biddeford, USA. (2015)

Klingbeil, K., Lemmen, C., Nasermoaddeli, M.H., Hofmeister, R., Kerimoglu, O., Kreuz, M., Kösters, F., Burchard, H., Wirtz, K., 2015. MOSSCO - Eine gemeinsame Infrastruktur für die Nord- und Ostseeforschung, Poster, KDM-Symposium „Küste 2015“ (2015)

Lemmen, C., Burchard, H., Hofmeister, R., Kerimoglu, O., Klingbeil, K., Kreuz, M., Nasermoaddeli, M.H., Wirtz, K.W., 2015. Modulares System für Schelfmeere und Küsten (MOSSCO), Symposium „Küste 2025“, Konsortium Deutsche Meeresforschung, Poster, Hamburg, Germany (2015)

Lemmen, C., Hofmeister, R., Nasermoaddeli, M.H., Klingbeil, K., Kösters, F., Burchard, H., Wirtz, K.W., 2015. Coupling of benthic and pelagic processes in 1D and 3D: The Modular System for Shelves and Coasts (MOSSCO), 3rd Aquatic Ecosystem Modeling Workshop, Poster, Driebergen, The Netherlands (2015)

Lemmen, C., Hofmeister, R., Nasermoaddeli, M.H., Klingbeil, K., Wirtz, K.W., 2014. Modular coupling of benthic and pelagic processes: The new MOSSCO framework for domain and process coupling, System States and Transitions of Tidal Estuaries, Poster, Hamburg-Harburg, Germany (2014)

Rene, R., Friedland, R., 2017. Water quality indicators, In Coastal Summer School on “How to govern marine environment: Baltic Sea and sediment services as a case study”, Lauenburg, Germany (10. – 21. September 2017)