Publications

Journal articles (Peer reviewed)

1. Omstedt, A., Edman, M., Anderson, L. G., Laudon, H. (2010). Factors influencing the acid-base (pH) balance in the Baltic Sea: A sensitivity analysis. *Tellus*, 62B, 280-295.
2. Omstedt, A., Edman, M., Claremar, B., Frodin, P., Gustafsson, E., Humborg, C., Hägg, H., Mörth, M., Rutgersson, A., Schurgers G., Smith, B., Wällstedt, T., Yurova, A. (2012). Future changes in the Baltic Sea acid-base (pH) and oxygen balances. *Tellus*, 64B, 1-23.
3. Edman, M., Omstedt, A. (2013). Modeling the dissolved CO_2 system in the redox environment of the Baltic Sea. *Limnol. Oceanogr.*, 58(1), 74–92.
4. Edman, M. K., Anderson, L. G., (2014). Effect on pCO2 by phytoplankton uptake of dissolved organic nutrients in the Central and Northern Baltic Sea, a model study. *Journal of Marine System, 139, 166–182.*
5. Omstedt, A., Edman, E., Claremar, B., Rutgersson, A., (2015). Modelling the contributions to marine acidification from deposited SOx, NOx, and NHx in the Baltic Sea: Past and present situations**,** Continental Shelf Research, 111, 234-249
6. Almroth-Rosell E., Edman, M., Eilola K., Markus Meier H. E. M. and Sahlberg J., (2016). Modelling nutrient retention in the coastal zone of an eutrophic sea. Biogeoscience, Vol. 13, doi:10.5194/bg-13-1-2016
7. Turner, D.R., Edman, M., Gallego-Urrea, J.A., Claremar, B., Hassellöv, I.M., Omstedt, A., Rutgersson, A. (2017). The potential future contribution of shipping to acidification of the Baltic Sea, AMBIO, 78, 1-11, doi: 10.1007/s13280-017-0950-6
8. Edman, M., Eilola, K., Almroth-Rosell, E., Meier, H. E. M., Wåhlström, I., Arneborg L., (2018). Nutrient Retention in the Swedish Coastal Zone., Front. Mar. Sci., vol. 5, doi: 10.3389/fmars.2018.00415
9. Meier, H. E. M., Edman, M. K., Eilola, K. J., Placke, M., Neumann, T., Andersson, H. C., Brunnabend, S.-E., Dieterich, C., Frauen, C., Friedland, R., Gröger, M., Gustafsson, B. G., Gustafsson, E., Isaev, A., Kniebusch, M., Kuznetsov, I., Müller-Karulis, B., Omstedt, A., Ryabchenko, V., Saraiva, S., Savchuk, O. P., (2018). Assessment of Eutrophication Abatement Scenarios for the Baltic Sea by Multi-Model Ensemble Simulations, Front. Mar. Sci., vol. 5, doi: https://doi.org/10.3389/fmars.2018.00440
10. Meier, H. E. M., Edman, M. K., Eilola, K. J., Placke, M., Neumann, T., Andersson, H. C., Brunnabend, S.-E., Dieterich, C., Frauen, C., Friedland, R., Gröger, M., Gustafsson, B. G., Gustafsson, E., Isaev, A., Kniebusch, M., Kuznetsov, I., Müller-Karulis, B., M., Omstedt, A., Ryabchenko, V., Saraiva, S., Savchuk, O. P., (2019). Assessment of Uncertainties in Scenario Simulations of Biogeochemical Cycles in the Baltic Sea, Front. Mar. Sci., vol. 6., doi: 10.3389/fmars.2019.00046

None-peer-reviewed publications

1. Omstedt, A., Edman, M., and J., Havenhand (2014). Mer koldioxid i atmosfären gör haven surare. Havet 2913/2014, ISSN: 1654-6741, pp 18-22.
2. Almroth Rosell, E., Edman, M. (2016). Skärgården - det naturliga filtret mot övergödning. Havsutsikt Vol.1, ISSN: 1104-0513, pp 20-21.
3. Wåhlström, I., Eilola, K., Edman, M., Almroth-Rosell, E., (2016). Evaluation of open sea boundary conditions for the coastal zone. A model study in the northern part of the Baltic Proper. RO55