

Publication list for Bengt Karlson

1. Peer review publications in scientific journals

Articles (peer review) 1989-2021

- Karlson, B., Andersen, P., Arneborg, L., Cembella, A.D., Eikrem, W., John, U., Joy-West, J., Klemm, K., Kobos, J., Lehtinen, S., Lundholm, N., Mazur-Marzec, H., Naustvoll, L., Poelman, M., Provoost, P., De Rijcke, M., Suikkanen, S., in press. Harmful algal blooms and their effects in coastal seas of northern Europe. *Harmful Algae*.
- Olofsson, M., Klawonn, I., Karlson, B., 2021. Nitrogen fixation estimates for the Baltic Sea indicate high rates for the previously overlooked Bothnian Sea. *AMBIO* 50(1), 203-214.
- Wells, M.L., Karlson, B., Wulff, A., Kudela, R., Trick, C., Asnaghi, V., Berdalet, E., Cochlan, W., Davidson, K., De Rijcke, M., Dutkiewicz, S., Hallegraeff, G., Flynn, K.J., Legrand, C., Paerl, H., Silke, J., Suikkanen, S., Thompson, P., Trainer, V.L., 2020. Future HAB science: Directions and challenges in a changing climate. *Harmful Algae* 91.
- Olofsson, M., Hagan, J.G., Karlson, B., Gamfeldt, L., 2020. Large seasonal and spatial variation in nano- and microphytoplankton diversity along a Baltic Sea—North Sea salinity gradient. *Scientific Reports* 10(1), 17666.
- Prevedt, A., Lindstrom, J., Xu, J.Y., Karlson, B., Selander, E., 2019. Grazer-induced bioluminescence gives dinoflagellates a competitive edge. *Current Biology* 29(12), R564-R565.
- Harvey, E.T., Walve, J., Andersson, A., Karlson, B., Kratzer, S., 2019. The Effect of Optical Properties on Secchi Depth and Implications for Eutrophication Management. *Frontiers in Marine Science* 5.
- Harvey, E.T., Walve, J., Andersson, A., Karlson, B., Kratzer, S., 2019. The effect of optical properties on Secchi depth and implications for eutrophication management. *Frontiers in Marine Science* 5(496), 1-19.
- Wells, M.L., Karlson, B., 2018. Harmful Algal Blooms in a Changing Ocean, In: Glibert, P.M., Berdalet, E., Burford, M.A., Pitcher, G.C., Zhou, M. (Eds.), *Global Ecology and Oceanography of Harmful Algal Blooms*. Springer International Publishing, New York, pp. 77-90.
- Petersen, W., Colijn, F., Gorringer, P., Kaitala, S., Karlson, B., King, A., Lips, U., Ntoumas, M., Seppala, J., Sorensen, K., 2018. FerryBoxes within Europe: State-of-the-art and Integration in the European Ocean Observation System (EOOS), In: Buch, E., Fernández, V., Eparkhina, D., Gorringer, P., Nolan, G. (Eds.), *Eight EuroGOOS International Conference*. 3-5 October 2017. EuroGOOS, Brussels, Bergen, Norway, pp. 63-70.
- Hieronimus, J., Eilola, K., Hieronimus, M., Meier, H.E.M., Saraiva, S., Karlson, B., 2018. Causes of simulated long-term changes in phytoplankton biomass in the Baltic proper: a wavelet analysis. *Biogeosciences* 15(16), 5113-5129.
- Berdalet, E., Kudela, R.M., Banas, N.S., Bresnan, E., Burford, M.A., Davidson, K., Gobler, C.J., Karlson, B., Lim, P.T., Mackenzie, L., 2018. GlobalHAB: fostering international coordination on harmful algal bloom research in aquatic systems. *Global Ecology and Oceanography of Harmful Algal Blooms*, 425-447.
- Zhang, D., Lavender, S., Muller, J.-P., Walton, D., Karlson, B., Kronsell, J., 2017. Determination of phytoplankton abundances (Chlorophyll-a) in the optically complex inland water - The Baltic Sea. *Science of The Total Environment* 601–602, 1060-1074.
- Paczkowska, J., Rowe, O., Schluster, L., Legrand, C., Karlson, B., Andersson, A., 2017. Allochthonous matter: an important factor shaping the phytoplankton community in the Baltic Sea. *Journal of Plankton Research* 39(1), 23-34.
- Karlson, B., Eilola, K., Johansson, J., Linders, J., Mohlin, M., Willstrand Wranne, A., Wåhlström, I., 2017. Distribution of cyanobacteria blooms in the Baltic Sea, In: Proença, L.A.O., Hallegraeff, G.M. (Eds.), *Marine and Fresh-Water Harmful Algae*. 17th International Conference on Harmful Algae. . International Society for the Study of Harmful Algae, Florianopolis, Brazil, pp. 100-103.

- von Schuckmann, K., Le Traon, P.Y., Alvarez-Fanjul, E., Axell, L., Balmaseda, M., Breivik, L.A., Brewin, R.J.W., Bricaud, C., Drevillon, M., Drillet, Y., Dubois, C., Embury, O., Etienne, H., Sotillo, M.G., Garric, G., Gasparin, F., Gutknecht, E., Guinehut, S., Hernandez, F., Juza, M., Karlson, B., Korres, G., Legeais, J.F., Levier, B., Lien, V.S., Morrow, R., Notarstefano, G., Parent, L., Pascual, A., Perez-Gomez, B., Perruche, C., Pinardi, N., Pisano, A., Poulain, P.M., Pujol, I.M., Raj, R.P., Raudsepp, U., Roquet, H., Samuelson, A., Sathyendranath, S., She, J., Simoncelli, S., Solidoro, C., Tinker, J., Tintore, J., Viktorsson, L., Ablain, M., Almroth-Rosell, E., Bonaduce, A., Clementi, E., Cossarini, G., Dagneaux, Q., Desportes, C., Dye, S., Fratianni, C., Good, S., Greiner, E., Gourrion, J., Hamon, M., Holt, J., Hyder, P., Kennedy, J., Manzano-Munoz, F., Melet, A., Meyssignac, B., Mulet, S., Nardelli, B.B., O'Dea, E., Olason, E., Paulmier, A., Perez-Gonzalez, I., Reid, R., Racault, M.F., Raitsos, D.E., Ramos, A., Sykes, P., Szekely, T., Verbrugge, N., 2016. The Copernicus Marine Environment Monitoring Service Ocean State Report. *Journal of Operational Oceanography* 9, s235-s320.
- Karlson, B., Andersson, L.S., Kaitala, S., Kronsell, J., Mohlin, M., Seppala, J., Wranne, A.W., 2016. A comparison of FerryBox data vs. monitoring data from research vessels for near surface waters of the Baltic Sea and the Kattegat. *Journal of Marine Systems* 162, 98-111.
- Hu, Y.O.O., Karlson, B., Charvet, S., Andersson, A.F., 2016. Diversity of Pico- to Mesoplankton along the 2000 km Salinity Gradient of the Baltic Sea. *Front. Microbiol.* 7, 17.
- Wells, M.L., Trainer, V.L., Smayda, T.J., Karlson, B.S.O., Trick, C.G., Kudela, R.M., Ishikawa, A., Bernard, S., Wulff, A., Anderson, D.M., Cochlan, W.P., 2015. Harmful algal blooms and climate change: Learning from the past and present to forecast the future. *Harmful Algae* 49, 68-93.
- Karlson, B., Andreasson, A., Johansen, M., Mohlin, M., Skjevik, A.-T., Strömberg, P., 2015. Plankton Toolbox – open source software making it easier to work with plankton data, In: MacKenzie, A.L. (Ed.), 16th International Conference on Harmful Algae. Cawthron Institute, Nelson, New Zealand and the International Society for the Study of Harmful Algae (ISSHA), Wellington, New Zealand, pp. 194-197.
- Hakonen, A., Anderson, L.G., Engelbrektsson, J., Hulth, S., Karlson, B., 2013. A potential tool for high-resolution monitoring of ocean acidification. *Analytica Chimica Acta* 786, 1-7.
- Reid, P.C., Bathmann, U., Batten, S.D., Brainard, R.E., Burkill, P.H., Carlotti, F., Chiba, S., Conversi, A., Dickson, R.R., Dooley, H., 2010. A global continuous plankton recorder programme.
- Karlson, B., Cusack, C., Bresnan, E., 2010. Microscopic and molecular methods for quantitative phytoplankton analysis. UNESCO, Paris.
- Eriksson, L.E.B., Borenas, K., Dierking, W., Berg, A., Santoro, M., Pemberton, P., Lindh, H., Karlson, B., 2010. Evaluation of new spaceborne SAR sensors for sea-ice monitoring in the Baltic Sea. *Can. J. Remote Sens.* 36, S56-S73.
- Godhe, A., Cusack, C., Pedersen, J., Andersen, P., Anderson, D.M., Bresnan, E., Cembella, A., Dahl, E., Diercks, S., Elbrachter, M., Edler, L., Galluzzi, L., Gescher, C., Gladstone, M., Karlson, B., Kulis, D., LeGresley, M., Lindahl, O., Marin, R., McDermott, G., Medlin, L.K., Naustvoll, L.J., Penna, A., Tobe, K., 2007. Intercalibration of classical and molecular techniques for identification of *Alexandrium fundyense* (Dinophyceae) and estimation of cell densities. *Harmful Algae* 6(1), 56-72.
- Ozturk, M., Croot, P.L., Bertilsson, S., Abrahamsson, K., Karlson, B., David, R., Fransson, A., Sakshaug, E., 2004. Iron enrichment and photoreduction of iron under UV and PAR in the presence of hydroxycarboxylic acid: implications for phytoplankton growth in the Southern Ocean. *Deep-Sea Res. Part II-Top. Stud. Oceanogr.* 51(22-24), 2841-2856.
- Karlson, B., Rehnstam Holm, A.-S., 2003. Algal toxins (DSP/PSP mussel infection events), In: Håkansson, B. (Ed.), Swedish national report on eutrophication status in the Kattegat and the Skagerrak - OSPAR assessment 2002. SMHI, Norrköping, pp. 50-52.
- Karlson, B., 2003. Phytoplankton indicator species and harmful algal blooms, In: Håkansson, B. (Ed.), Swedish national report on eutrophication status in the Kattegat and the Skagerrak - OSPAR assessment 2002. SMHI, Norrköping, pp. 24-30.
- Croot, P.L., Karlson, B., van Elteren, J.T., Kroon, J.J., 2003. Uptake and efflux of Cu-64 by the

- marine cyanobacterium *Synechococcus* (WH7803). *Limnology and Oceanography* 48(1), 179-188.
- Croot, P.L., Karlson, B., Wulff, A., Linares, F., Andersson, K., 2002. Trace metal/phytoplankton interactions in the Skagerrak. *Journal of Marine Systems* 35(1-2), 39-60.
- Karlson, B., Håkansson, B., Sjöberg, B., 2001. The Skagerrak – environmental state and monitoring prospects, p. 118.
- Godhe, A., Noren, F., Kuylenstierna, M., Ekberg, C., Karlson, B., 2001. Relationship between planktonic dinoflagellate abundance, cysts recovered in sediment traps and environmental factors in the Gullmar Fjord, Sweden. *Journal of Plankton Research* 23(9), 923-938.
- Persson, A., Godhe, A., Karlson, B., 2000. Dinoflagellate cysts in recent sediments from the west coast of Sweden. *Botanica Marina* 43(1), 69-79.
- Godhe, A., Karunasagar, I., Karunasagar, I., Karlson, B., 2000. Dinoflagellate cysts in recent marine sediments from SW India. *Botanica Marina* 43(1), 39-48.
- Croot, P.L., Karlson, B., van Elteren, J.T., Kroon, J.J., 1999. Uptake of ⁶⁴Cu–Oxine by Marine Phytoplankton. *Environ. Sci. Technol.* 33(20), 3615-3621.
- Sahlsten, E., Karlson, B., 1998. Vertical distribution of virus-like particles (VLP) and viruses infecting *Micromonas pusilla* during late summer in the southeastern Skagerrak, North Atlantic. *Journal of Plankton Research* 20(11), 2207-2212.
- Kuylenstierna, M., Karlson, B., 1998. *Quadricoccus euryhalinicus* sp. nov. (Botryococcaceae, Chlorophyceae) an euryhaline green alga from the Skagerrak, northeast Atlantic Ocean. *Bot. Mar.* 41, 317-320.
- Froneman, P.W., Pakhomov, E.A., Turner, D., Abrahamson, K., Karlson, B., Godhe, A., Bertilsson, S., Granéli, W., Carlsson, P., Wangberg, S., Wulff, A., Croot, P., Andersson, K., Balarin, M., Wedborg, M., Persson, T., Rasmus, K., Ozturk, M., David, R., 1998. Research cruise of the Scandinavian/South African Antarctic expedition, December 1997 to February 1998. *South African Journal of Science* 94, 517-519.
- Wängberg, S.-Å., Persson, A., Karlson, B., 1997. Effects of UV-B intensities on synthesis of mycosporines, its shielding factors, and growth in *Heterocapsa triquetra* (Dinophyceae). *Journal of Photochemistry and Photobiology B:biology* 37, 141-146.
- Kuylenstierna, M., Karlson, B., 1996-2000. Checklist of phytoplankton in the Skagerrak-Kattegat (including heterotrophic protists).
- Karlson, B., Potter, D., Kuylenstierna, M., Andersen, R.A., 1996. Ultrastructure, pigment composition, and 18S rRNA gene sequence for *Nannochloropsis granulata* sp nov (Monodopsidaceae, Eustigmatophyceae), a marine ultraplankter isolated from the Skagerrak, northeast Atlantic Ocean. *Phycologia* 35(3), 253-260.
- Karlson, B., Edler, L., Granéli, W., Sahlsten, E., Kuylenstierna, M., 1996. Subsurface chlorophyll maxima in the Skagerrak - Processes and plankton community structure. *J. Sea Res.* 35(1-3), 139-158.
- Karlson, B., 1995. PhD thesis: On the role of pico- and nanoplankton in the Skagerrak. Göteborg University, Göteborg.
- Kuylenstierna, M., Karlson, B., 1994. Seasonality and composition of picoplanktonic and nanoplanktonic cyanobacteria and protists in the Skagerrak. *Botanica Marina* 37(1), 17-33.
- Karlson, B., Nilsson, P., 1991. Seasonal distribution of picoplanktonic cyanobacteria of *Synechococcus* type in the eastern Skagerrak. *Ophelia* 34(3), 171-179.
- Karlson, B., 1989. Seasonal phosphate uptake by size-fractionated plankton in the Skagerrak. *J. Exp. Mar. Biol. Ecol.* 127, 141-154.

2. Peer review publications, books, book chapters and conference proceedings

- Wells, M.L., **Karlson**, B. 2018. Harmful Algal Blooms in a Changing Ocean, In Glibert, P.M., Berdalet, E., Burford, M.A., Pitcher, G.C., Zhou, M. (Eds.), *Global Ecology and*

- Oceanography of Harmful Algal Blooms, Ecological Studies, vol. 232, Springer International Publishing, New York, pp 77-90, ISBN:978-3-319-70068-7.
- Berdalet, E., Kudela, R.M., Banas, N.S., Bresnan, E., Burford, M.A., Davidson, K., Gobler, C.J., **Karlson, B.**, Lim, P.T., Mackenzie, L. (2018). In Glibert, P.M., Berdalet, E., Burford, M.A., Pitcher, G.C., Zhou, M. (Eds.), Global Ecology and Oceanography of Harmful Algal Blooms, Ecological Studies, vol. 232, Springer International Publishing, New York, pp 425-447, ISBN:978-3-319-70068-7.
- Petersen, W, Colijn F, Gorringe P, Kaitala S, **Karlson B**, King A, Lips U, Ntoumas M, Seppala J, Sorensen K 2018. FerryBoxes within Europe: State-of-the-art and Integration in the European Ocean Observation System (EOOS). In: Buch E, Fernández V, Eparkhina D, Gorringe P, Nolan G (eds). Proc Eight EuroGOOS International Conference 3-5 October 2017, Bergen, Norway. EuroGOOS, Brussels, ISBN 978-2-9601883-3-2, pp. 63-70. <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>
- Puillat I, Carlier A, Facq JV, Rubio A, Lazure P, Delauney L, Petihakis G, **Karlson B**, Artigas F, Farcy P 2018. Deployment of new observing systems within the JERICO-RI. In: Buch E, Fernández, V, Eparkhina D, Gorringe P, Nolan G (eds). Proc Eight EuroGOOS International Conference 3-5 October 2017, Bergen, Norway. EuroGOOS, Brussels, ISBN 978-2-9601883-3-2, pp. 43-51. <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>
- Karlson, B.**, Eilola, K., Johansson, J., Linders, J., Mohlin, M., Willstrand Wranne, A., Wählström, I. 2017. Distribution of cyanobacteria blooms in the Baltic Sea. In: Proença, L.A.O. and Hallegraeff, G.M. (eds). Marine and Fresh-Water Harmful Algae. Proceedings of the 17th International Conference on Harmful Algae. International Society for the Study of Harmful Algae 2017, pp 100-103. <http://isshabizdev.wpengine.com/wp-content/uploads/2018/05/ICHA-17-proceedings-2017.pdf>
- Karlson, B.**, Andersson, C.R., Coyne, K.J., Kudela, R., Sellner, K.G., Anderson, D.M. 2017. Designing an observing system for early detection of harmful algal blooms. In: Anderson D. M., S. F. E. Boerlage, M. B. Dixon (Eds), Harmful Algal Blooms (HABs) and Desalination: A Guide to Impacts, Monitoring and Management, IOC Manuals and Guides No.78, Paris, Intergovernmental Oceanographic Commission of UNESCO, 2017. P. 89-117. <http://unesdoc.unesco.org/images/0025/002595/259512E.pdf>
- Anderson, D. M. and **Karlson, B.** 2017. Preservatives and methods for algal cell enumeration In: Anderson D. M., S. F. E. Boerlage, M. B. Dixon (Eds), Harmful Algal Blooms (HABs) and Desalination: A Guide to Impacts, Monitoring and Management, IOC Manuals and Guides No.78, Paris, Intergovernmental Oceanographic Commission of UNESCO, 2017. P. 509-517. <http://unesdoc.unesco.org/images/0025/002595/259512E.pdf>
- Karlson, B.**, Andreasson, A., Johansen, M., Mohlin, M., Skjevik, A.-T.; Strömberg, P. 2015. Plankton toolbox – open source software making it easier to work with plankton data, 16th International Conference on Harmful Algae, Wellington, New Zealand, 2014; MacKenzie, A.L., Ed. Cawthron Institute, Nelson, New Zealand and the International Society for the Study of Harmful Algae (ISSHA): Wellington, New Zealand, pp 194-197. <http://isshabizdev.wpengine.com/wp-content/uploads/2018/05/ICHA-16-Proccedings-Final-20151005.pdf>
- Karlson, B.**, Eilola, K. and Hansson, M. (2010) Cyanobacterial blooms in the Baltic Sea – correlating bloom observations with environmental conditions, In Ho, K-C., Zhou, M.J. and Qi, Y.Z. (Eds.) Proceedings of the 13th International Conference on Harmful Algae, Nov. 3-7 2008 Hong Kong, p. 247-252.
- Karlson, B.**, Cusack, C. and Bresnan, E. (editors) 2010. Microscopic and molecular methods for quantitative phytoplankton analysis. Paris, UNESCO. (IOC Manuals and Guides, no. 55.) (IOC/2010/MG/55) 110 pages.
- Karlson, B.**, Godhe, A., Cusack, C. and Bresnan, B. (2010) Overview of methods for quantitative phytoplankton analysis in: Microscopic and molecular methods for quantitative phytoplankton analysis, Eds. Karlson, B., Cusack, C. and Bresnan, E. Intergovernmental

Oceanographic Commission Manual and guides, pp5-12.

Rehnstam-Holm, A-S, Loo, L-O and **Karlson, B.** (2007). Temporal and spatial distribution of diarrhetic shellfish toxins in blue mussels, *Mytilus edulis* (L.) 1988-2005, along the Swedish Skagerrak coast, proceedings from the V international meeting on Molluscan Shellfish Safety, Ireland June 2004.

Karlson, B. (2006). High resolution monitoring of harmful algal blooms and oceanographic conditions in the Skagerrak, in: European operational oceanography: present and future, Proceedings of the fourth international conference on EuroGOOS,, Eds. Dahlin, H., Flemming, N.C, Marchand, P. and Pettersson, S.E., European Commission, Brussels, p. 24-28.

Hansson, M., Håkansson, B., **Karlson, B.** 2006. Satellite monitoring of cyanobacterial blooms in the Baltic Sea - The Baltic Algal Watch System, in: European operational oceanography: present and future, Proceedings of the fourth international conference on EuroGOOS,, Eds. Dahlin, H., Flemming, N.C, Marchand, P. and Pettersson, S.E., European Commission, Brussels, p. 134-141.

3. Selected international non-peer review publications

Havsmiljöinstitutet, Göteborg, Sverige, pp. 46-48. Walve, J, Högländer, H., Andersson, A, **Karlson, B.**, Karlsson, C. M, Johansen. 2016 Phytoplankton in coastal waters. In: Lindegarth M, Carstensen J, Drakare S, Johnson RK, Nyström Sandman A, Söderpalm A, Wikström S A (Editors). Ecological Assessment of Swedish Water Bodies; development, harmonisation and integration of biological indicators. Final report of the research programme WATERS. Deliverable 1.1-4, WATERS report no 2016:10. Havsmiljöinstitutet, Sweden, 95-106.

ICES 2016. Interim Report of the ICES - IOC Working Group on Harmful Algal Bloom Dynamics (WGHABD), 56 pp.

Karlson, B. 2015. How ocean acidification affects the Arctic, Air & Environment 2015, Swedish Environmental Protection Agency, Stockholm, ISBN 978-91-620-1299-1, pp. 49-51.

Karlson, B., Strömberg, P., Skjevik, A-T. 2015. Variability and Trends of Phytoplankton in the Baltic Sea and Kattegat-Skagerrak. Swedish Agency for Marine and Water Management report 2015:33, ISBN 978-91-87967-19-1, 33 pp.
<https://www.havochvatten.se/download/18.401fd246154221e5ab03dbca/1461141374197/report-2015-33-variability-trends-phytoplankton.pdf>

Karlson, B. 2014. Monitoring Methods of Phytoplankton in the Baltic Sea and Kattegat-Skagerrak. Swedish Agency for Marine and Water Management report 2014:26. ISBN 978-91-87025-89-1, 38 pp.
<https://www.havochvatten.se/download/18.679f98fc1507dbb8f69afb53/1446711868143/report-2014-26-monitoring-methods-phytoplankton.pdf>

Walve, J, Johansen, M, **Karlson, B.**, Andersson, A, Karlsson, C. Phytoplankton in coastal waters - evaluation of the length of the seasonal assessment period. Deliverable 3.3-2, WATERS Report no. 2014:1. Havsmiljöinstitutet, Sweden, 41 pp.

Högländer, H, **Karlson, B.**, Johansen, M., Walve, J., Andersson, A. (2013) Overview of coastal, phytoplankton indicators and their potential use in Swedish waters. WATERS Report no. 2013:5, Havsmiljöinstitutet, Sweden, 86 pp.

ICES-IOC. 2001-2018. Yearly reports of the Working Group on Harmful Algae Bloom Dynamics (WGHABD), <http://www.ices.dk/community/groups/Pages/WGHABD.aspx>

Karlson, B. 2012. FerryBox systems in the Baltic Sea area. News from BOOS, the Baltic Operational Oceanographic System. 2:1, 2-4.

Karlson, B., Axe, P., Funkquist, L., Kaitala, S. and Sørensen, K. (2009). Infrastructure for marine monitoring and operational oceanography, Reports Oceanography no. 39, Swedish Meteorological and Hydrological Institute, 101 pp.

Karlson, B., Rehnstam-Holm, A-S and Loo, L-O, (2007), Temporal and spatial distribution of diarrhetic shellfish toxins in blue mussels, *Mytilus edulis* (L.), at the Swedish west coast, NE Atlantic, years 1988-2005 Swedish Meteorological and Hydrological Institute, Reports

Oceanography, no.35, 78 pp.

- Karlson, B.** (2007) Phytoplankton and Algal toxins, In: Ed. Håkansson, B. Swedish National Report on Eutrophication Status in the Kattegat and the Skagerrak, OSPAR ASSESSMENT 2007, SMHI Reports Oceanography no. 36. pp. 14-16 and 25-26.
- Karlson, B.** and Andersson, P. (2006). Overview of the marine pelagic monitoring programs in the Skagerrak In. Karlson, B. (ed.) Monitoring the pelagic system in the Skagerrak. Forum Skagerrak..pp. 6-13.
- Karlson, B.** (editor) (2006) Monitoring the pelagic system in the Skagerrak. Forum Skagerrak report. 67 pp.
- Andersson, P. and **Karlson, B.** (2006) Real time monitoring – ferry box systems and moorings. In. Karlson, B. (ed.), Monitoring the pelagic system in the Skagerrak. Forum Skagerrak..pp. 17-22.
- Karlson, B.** (2006). Monitoring of Phytoplankton and Harmful Algal Blooms. In. Karlson, B. (ed.) Monitoring the pelagic system in the Skagerrak. Forum Skagerrak. pp. 38-47.
- Karlson, B.** Overview of the marine pelagic monitoring programs in the Skagerrak In. Karlson, B. (ed.) (2006) Co-ordinated monitoring of the pelagic system in the Skagerrak - future directions, Forum Skagerrak, pp. 61-67.

4. Articles in regional or national journals

Karlson, B. 2012. FerryBox systems in the Baltic Sea area. News from BOOS, 2:2-4.

5. Books or book chapters in Swedish

- Karlson, B.** 2017. Algblomningar skapar rubriker. In Havet 1988, Svedäng, H.; Svärd, M.; Johansen Lilja, T.; Lundberg, F., Eds. Havsmiljöinstitutet: Göteborg, Sverige, pp 80-83.
- Karlson, B.** 2017. Kraftfulla alggifter bromsar musselodlingens framväxt. In Havet 1988, Svedäng, H.; Svärd, M.; Johansen Lilja, T.; Lundberg, F., Eds. Havsmiljöinstitutet: Göteborg, Sverige, pp 86-88.
- Karlson, B.** 2017. Förödande algblomning drabbar hela Västerhavets ekosystem. In Havet 1988, Svedäng, H.; Svärd, M.; Johansen Lilja, T.; Lundberg, F., Eds. Havsmiljöinstitutet: Göteborg, Sverige, pp 77-79.
- Karlson, B.** 2015. Så påverkar havsförureningen Arktis. Luft & Miljö 2015, Naturvårdsverket, Stockholm, ISBN 978-91-620-1297-7, sid. 49-51.
- Karlson, B.** (2015). Historisk planktonforskning – cyanobakterier även vid förra sekelskiftet. In Svärd, M., Johansen Lilja, T., Hansson, D. Havet 1888. Havsmiljöinstitutet, 46-48.
- Karlson, B.** (2015). Mängden växtplankton har fördubblats – en jämförelse mellan förra sekelskiftet och idag. In Svärd, M., Johansen Lilja, T., Hansson, D. Havet 1888. Havsmiljöinstitutet, 49-51.

6. Reports in Swedish (selected)

- Persson, M., **Karlson, B.**, Zuberovic Muratovic, A., Simonsson, M., Bergkvist, P., Renborg, E., 2020. Kontrollprogrammet för tvåskaliga blötdjur, Årsrapport 2014-2019, Livsmedelsverkets rapportserie, Uppsala, Sweden, pp. 1-55.
- Karlson, B.**, Mohlin, M., Hu, Y.O.O. och Andersson, A.F. 2018. Miljöövervakning av växtplankton i Kattegatt och Östersjön med rDNA-barcoding och mikroskopi - En jämförelse av molekylärbioologisk metodik och mikroskopi. Havs- och vattenmyndighetens rapport 2018:22, ISBN 978-91-88727-13-8, 62 pp.
<https://www.havochvatten.se/download/18.ac25173164914effc24113d/1531730376543/plankton-barcoding-rapport.pdf>
- Persson, M., **Karlson, B.**, Hellmér, M., Johansson, A., Nordlander, I., Simonsson, M. (2014). Årsrapport 2011-2013 - Kontrollprogrammet för tvåskaliga blötdjur Livsmedelsverket Rapport 11- 2014, 34 sidor.
- Pihl, L., Bergström, L., Blomqvist, M., **Karlson, B.**, Rosenberg, R. (2013) Stöd för utvärdering

- av kvalitetsfaktorer och indikatorer i näringsgradienter i Skagerrak. WATERS, 62 sidor.
- Skjevik, A-T., Bäck Ö., Edler, L., Hansson L.J., Johansen, M., Karlson, B. (2011). Utvärdering av Växtplankton från Västerhavet, Länsstyrelsen i Västra Götaland, Rapportnr: 2011:83, ISSN: 1403-168X, 99 pp.
- Nordlander, I., Persson, M., Hallström, H., Simonsson, M. 2011. Årsrapport 2009-2010 – Kontrollprogrammet för tvåskaliga blötdjur, Livsmedelsverkets rapportserie nr. 14/2011, 25 sidor.
- Persson, M., **Karlson**, B. 2009. Årsrapport 2008 – Kontrollprogrammet för tvåskaliga blötdjur, Livsmedelsverkets rapportserie nr. 6/2009, 31 sidor.

7. Popular science publications/presentations (selected)

- Karlson, B.; Skjevik, A.-T. 2017. Algbloomningar - en utmaning för miljöövervakning och forskning. Västerhavet 2017, 4-5.
- Skjevik, A-T., **Karlson**, B. 2016. Basen i havets näringsvävar. Västerhavet 2016, ISSN 1104-3458, page 4.
- Articles in the publication Havet
Several articles in the publication Västerhavet

8. Software and web sites

- Karlson**, B., Andreasson, A., Johansen, M., Karlberg, M., Loo, A., Skjevik, A-T., 2018. Nordic Microalgae. World-wide electronic publication, <http://nordicmicroalgae.org>.
- Karlson**, B., Andreasson, A., Johansen, M., Karlberg, A., Skjevik, A-T., 2018. Plankton Toolbox, <http://nordicmicroalgae.org/tools>