

Publication list for Bengt Karlson

1. Peer review publications in scientific journals

Published articles (peer review) 1989-2019

- Karlson, B.** (1989). Seasonal phosphate uptake by size fractionated plankton in the Skagerrak, *Journal of Experimental Marine Biology and Ecology*, Vol. 127: 141-154.
- Karlson, B., Nilsson, P.** (1991). Seasonal distribution of picoplanktonic cyanobacteria of *Synechococcus* type in the eastern Skagerrak (*Ophelia*, 1991, Vol. 34: 171-179).
- Kuylenstierna, M., **Karlson, B.** (1994). Seasonality and composition of pico- and nanoplanktonic cyanobacteria and protists in the Skagerrak, *Botanica Marina*, Vol. 37: 17-33.
- Karlson, B., Sahlsten, E., Edler, L., Kuylenstierna, M. & Granéli, W.** (1996). Subsurface chlorophyll maxima in the Skagerrak - processes and community structure. *J. Sea Res.*, Vol. 35: 139-158.
- Karlson, B., Potter, D., Kuylenstierna, M. & Andersen R.** (1996). Ultrastructure, pigment composition and 18S rRNA sequence for *Nannochloropsis oculata* and *N. granulata* sp. nov. (Monodopsidaceae, Eustigmatophyceae), a marine ultraplankton isolated from the Skagerrak, North East Atlantic. *Phycologia*, Vol. 35 (3), 253-260.
- Wängberg, S-Å, Persson, A. och **Karlson, B.** (1997). Effects of UV-B radiation on synthesis of mycosporines, its shielding factors and growth in *Heterocapsa triquetra* (Dinophyceae). *Journal of Photochemistry and Photobiology B:biology*, Vol. 37: 141-146.
- 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.
- Sahlsten, E., **Karlson, B.** (1998). Vertical distribution and infectivity of Virus-Like-Particles (VLP) and viruses infecting *Micromonas pusilla* during late summer in the south-eastern Skagerrak, North Atlantic. *J. Plankt. Res.* 20: 2207-2212.
- 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.
- Croot, P.L., **Karlson, B.**, van Elteren, B. J. T., Kroon, J. J. (1999) Uptake of Cu-Oxine by Marine Phytoplankton complexes can be directly assimilated by microorganisms., *Environ. Sci. Technol.* 33: 3615-3621.
- Godhe, A., Karunasagar, I., Karunasagar, I. and **Karlson, B.** (2000) Dinoflagellate cysts in recent marine sediments from SW India., *Bot. Mar.* Vol. 42.
- Persson, A., Godhe, A. and **Karlson, B.** (2000) Dinoflagellate cysts in recent sediments from the West coast of Sweden, *Bot. Mar.* Vol. 42.
- Godhe, A., Norén, F., Kuylenstierna, M., Ekberg, C., **Karlson, B.** (2001). Relation between planktonic dinoflagellate abundance, cysts recovered in sediment traps and environmental factors in the Gullmar Fjord, Sweden. *J. Plankton Res.*v23: 923-938.
- Croot, P. L., **Karlson, B.**, Wulff, A., Linares, F., Andersson, K. (2002). Trace metal/phytoplankton interactions in the Skagerrak. *Journal of Marine Systems.* 35: 39-60.
- Croot, P. L., **Karlson, B.**, van Elteren, J. T., Kroon, K. J. (2003). Uptake and efflux of ⁶⁴Cu by the marine cyanobacterium *Synechococcus* (WH 7803). *Limnology & Oceanography.* 48: 179-188.
- Özturk M, Croot PL, 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 Research II* 51:2841-2856
- Godhe, A. Caroline Cusack, John Pedersen, Per Andersen, Donald M. Anderson, Eileen

- Bresnan, Allan Cembella, Einar Dahl, Sonja Diercks, Malte Elbrächter, Lars Edler, Luca Galluzzi, Christine Gescher, Melissa Gladstone, **Bengt Karlson**, David Kulis, Murielle LeGresley, Odd Lindahl, Roman Marin, Georgina McDermott, Linda K. Medlin, Lars-Johan Naustvoll, Antonella Penna, Kerstin Töbe. (2007) Intercalibration of classical and molecular techniques for identification of *Alexandrium fundyense* (Dinophyceae) and estimation of cell densities. *Harmful Algae*, 56-72
- Eriksson, L.E.B., Borenäs, K., Dierking, W., Berg, A., Santoro, M., Pemberton, P., Lindh, H., and **Karlson**, B. (2010) Evaluation of new spaceborne SAR sensors for sea-ice monitoring in the Baltic Sea, *Canadian Journal of Remote Sensing*, Volume 36, Supplement S1, 2010, pp. S56-S73.
- 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, p. 1-7.
- 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.
- 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.* 7:679, 1-17.
- Karlson**, B. Andersson, L.S., Kaitala, S., Kronsell, J., Mohlin, M., Seppälä, J., Willstrand-Wranne, A. 2016. A comparison of Ferrybox data vs. monitoring data from research vessels for near surface waters of the Baltic Sea and the Kattegat. *J. Mar. Sys.* 162, 98–111. <https://doi.org/10.1016/j.jmarsys.2016.05.002>
- Puillat, I., Farcy, P., Durand, D., **Karlson**, B., Petihakis, G., Seppälä, J., et al. (2016). Progress in marine science supported by European joint coastal observation systems: The JERICO-RI research infrastructure. *Journal of Marine Systems* 162, 1-3. doi: <https://doi.org/10.1016/j.jmarsys.2016.06.004>.
- Paczkowska, J., Rowe, O.F., Schlüter, L., Legrand, C., **Karlson**, B., Andersson, A., 2017. Allochthonous matter: an important factor shaping the phytoplankton community in the Baltic Sea. *J. Plankton Res. J. Plankton Res.* 39(1): 23–34.
- von Schuckmann, Karina, Pierre-Yves Le Traon, Enrique Alvarez-Fanjul, Lars Axell, Magdalena Balmaseda, Lars-Anders Breivik, Robert J. W. Brewin, Clement Bricaud, Marie Drevillon, Yann Drillet, Clotilde Dubois, Owen Embury, Hélène Etienne, Marcos García Sotillo, Gilles Garric, Florent Gasparin, Elodie Gutknecht, Stéphanie Guinehut, Fabrice Hernandez, Melanie Juza, Bengt **Karlson**, Gerasimos Korres, Jean-François Legeais, Bruno Levier, Vidar S. Lien, Rosemary Morrow, Giulio Notarstefano, Laurent Parent, Álvaro Pascual, Begoña PérezGómez, Coralie Perruche, Nadia Pinardi, Andrea Pisano, Pierre-Marie Poulain, Isabelle M. Pujol, Roshin P. Raj, Urmas Raudsepp, Hervé Roquet, Annette Samuelsen, Shubha Sathyendranath, Jun She, Simona Simoncelli, Cosimo Solidoro, Jonathan Tinker, Joaquín Tintoré, Lena Viktorsson, Michael Ablain, Elin Almroth-Rosell, Antonio Bonaduce, Emanuela Clementi, Gianpiero Cossarini, Quentin Dagneaux, Charles Desportes, Stephen Dye, Claudia Fratianni, Simon Good, Eric Greiner, Jerome Gouillon, Mathieu Hamon, Jason Holt, Pat Hyder, John Kennedy, Fernando ManzanoMuñoz, Angélique Melet, Benoit Meyssignac, Sandrine Mulet, Bruno Buongiorno Nardelli, Enda O’Dea, Einar Olason, Aurélien Paulmier, Irene Pérez-González, Rebecca Reid, Marie-Fanny Racault, Dionysios E. Raitsos, Antonio Ramos, Peter Sykes, Tanguy Szekely & Nathalie Verbrugge (2017) The Copernicus Marine Environment Monitoring Service Ocean State Report, *Journal of Operational Oceanography*, 9:sup2, s235-s320, DOI: 10.1080/1755876X.2016.1273446
- Berdalet, E., R. Kudela, E. Urban, H. Enevoldsen, N.S. Banas, L. Mackenzie, M. Montresor, M. Burford, C.J. Gobler, B. **Karlson**, P.T. Lim, and K. Yin. 2017. GlobalHAB: A new program to promote international research, observations, and modeling of harmful algal blooms in aquatic systems. *Oceanography* 30(1):70–81, <https://doi.org/10.5670/oceanog.2017.111>.
- 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, <http://dx.doi.org/10.1016/j.scitotenv.2017.05.245>
- Hieronimus, J., Eilola, K., Hieronimus, M., Meier, H.E.M., Saraiva, S., and **Karlson, B.** (2018). Causes of simulated long-term changes in phytoplankton biomass in the Baltic proper: a wavelet analysis. *Biogeosciences* 15(16), 5113-5129. <https://doi.org/10.5194/bg-15-5113-2018>
- Harvey ET, 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* 5:1-19. <https://doi.org/10.3389/fmars.2018.00496>

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, 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). 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, Gorringer 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.wengine.com/wp-content/uploads/2018/05/ICHA-16-Proceedings-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

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/rep-ort-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/rep-ort-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.
- Höglander, 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. Algbloomingar 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 algblooming 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 havsförurningen 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)

- 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. Algblomningar - 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>

9. Presentations at scientific conferences 2010-2017

- Karlson, B.** Anglès, S., Artigas, L.S., Brosnahan, M.L., Colas, F., Creach, V., de Blok, R., Deneudt, K., Eikrem, W., Hällfors, H., Gregori, G., Kielosto, S., Kuosa, H., Laakso, L., Lefebvre, A., Lehtinen, S., Louchart, A., Oja, J., Rijkeboer, M., Seppälä, J., Suikkanen, Tamminen, T., Thyssen, M., Tyberghein, L., Wacquet, G., Ylöstalo, P. 2017. Flow cytometry and imaging in flow methods facilitate automated observations and monitoring of algal blooms and phytoplankton abundance and diversity in automated platforms. **Oral** presentation at the 8th Ferrybox Workshop, Oslo, Norway, 17-19 October 2017.
- Karlson, B.**, Andersson, A., Brosnahan, M., Cembella, A., Hu, Y., Krieger, E. 2017. Studies of plankton with a focus on harmful algae using imaging in flow and metabarcoding in the Baltic Sea and the Kattegat-Skagerrak. **Oral** presentation at Symposium: High throughput methods for application in marine biodiversity time series – addressing their challenges to fulfil their promises, Hanover, Germany, 11-13 October, 2017.
- Karlson, B.**, Persson, M. 2017. Observations of *Dinophysis* species and diarrhetic shellfish toxins in *Mytilus edulis* along the Swedish Skagerrak coast: inter-annual variability 1988-2016. **Poster** presentation at the Gordon Research Conference on Mycotoxins and Phycotoxins, Boston, USA, June 18-23, 2017.

- Eilola, K., Hense, I., Meier, M., Gröger, M., Hieronymus, J., **Karlson**, B., Johansson, J. 2017. Modelling cyanobacteria life cycle dynamics and nitrogen fixation in the Baltic Sea. Advances in Marine Ecosystem Modelling Research Conference, Plymouth, United Kingdom, 3-6 July 2017.
- Persson, M., Renborg, E., **Karlson**, B. 2017. Results from monitoring of marine biotoxins in bivalve molluscs during harvesting on the Swedish Skagerrak coast, 2014-2016. **Poster** presentation at the 11th International Conference on Molluscan Shellfish Safety, Galway, Ireland, 14-18 May, 2017.
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