

Sólvá Káradóttir Eliassen

Havstovan - Faroe Marine Research Institute
Nóatún 1, FO-100 Tórshavn
Faroe Islands

Email: solvae@hav.fo
Phone: +298 353940
<http://www.hav.fo>



Research interests

Biological Oceanography

Pelagic Fish Stocks

Phytoplankton dynamics

Employment

Havstovan - Faroe Marine Research Institute

Pure Faroe Islands

Faroe Islands

1 Nov 2013 → present

Professional Information

Member of ICES WGWIDE

Member of ICES WGINOR

Member of ICES WGMEGS

Qualifications

PhD, Biological Oceanography, Havstovan - Faroe Marine Research Institute
Nov 2013 → Aug 2017

Diploma for graduates in mathematics, The London School of Economics and Political Science
Sept 2011 → Jun 2013

Master, Geophysics, University of Copenhagen
Sept 1996 → Jun 2001

Research outputs – Peer Reviewed

1. Kristiansen, I, Hátún, H, Jacobsen, JA, Eliassen, SK, Petursdottir, H & Gaard, E 2022, 'Spatial Variability of the Feeding Conditions for the Norwegian Spring Spawning Herring in May', *Frontiers in Marine Science*, vol. 9, 823006, pp. 1-14. <https://doi.org/10.3389/fmars.2022.823006>
2. Eliassen, SK, í Homrum, E, Jacobsen, JA, Kristiansen, I, Óskarsson, GJ, Salthaug, A & Stenevik, EK 2021, 'Spatial Distribution of Different Age Groups of Herring in Norwegian Sea, May 1996–2020', *Frontiers in Marine Science*, vol. 8, 778725, pp. 1-13. <https://doi.org/10.3389/fmars.2021.778725>
3. Hátún, H, Larsen, KMH, Eliassen, SK & Mathis, M 2021, Major Nutrient Fronts in the Northeastern Atlantic: From the Subpolar Gyre to Adjacent Shelves. in I Belkin (ed.), *Chemical Oceanography of Frontal Zones. The Handbook of Environmental Chemistry*, Springer Berlin Heidelberg, Berlin, Germany, pp. 1-45.
4. Kristiansen, I, Jónasdóttir, SH, Gaard, E, Eliassen, SK & Hátún, H 2021, 'Seasonal variation in *Calanus finmarchicus* in relation to environmental conditions in the south-western Norwegian Sea', *Deep sea research part 1: oceanographic research papers*, vol. 171, 103508. <https://doi.org/10.1016/j.dsr.2021.103508>
5. Cisewski, B, Hátún, H, Kristiansen, I, Hansen, B, Larsen, KMH, Eliassen, SK & Jacobsen, JA 2021, 'Vertical Migration of Pelagic and Mesopelagic Scatterers From ADCP Backscatter Data in the Southern Norwegian Sea', *Frontiers in Marine Science*, vol. 7, 542386, pp. 1-15. <https://doi.org/10.3389/fmars.2020.542386>

6. Kristiansen, I, Hátún, H, Petursdóttir, H, Gislason, A, Broms, C, Melle, W, Jacobsen, JA, Eliassen, SK & Gaard, E 2019, 'Decreased influx of *Calanus* spp. into the south-western Norwegian Sea since 2003', *Deep sea research part 1: oceanographic research papers*, vol. 149, pp. 1-10. <https://doi.org/10.1016/j.dsr.2019.05.008>
7. Eliassen, SK, Hátun, H, Larsen, KMH, Vang, HBM & Rasmussen, TAS 2019, 'The Faroe shelf spring bloom onset explained by a 'Critical Volume Hypothesis'', *Journal of Marine Systems*, vol. 194, pp. 91-101. <https://doi.org/10.1016/j.jmarsys.2019.02.005>
8. Jacobsen, S, Gaard, E, Larsen, KMH, Eliassen, SK & Hátun, H 2018, 'Temporal and spatial variability of zooplankton on the Faroe shelf in spring 1997-2016', *Journal of Marine Systems*, vol. 177, pp. 28-38. <https://doi.org/10.1016/j.jmarsys.2017.08.004>
9. Eliassen, SK, Hátun, H, Larsen, KMH & Jacobsen, S 2017, 'Faroe shelf bloom phenology: The importance of ocean-to-shelf silicate fluxes', *Continental Shelf Research*, vol. 143, pp. 43-53. <https://doi.org/10.1016/j.csr.2017.06.004>
10. Eliassen, SK, Hátun, H, Larsen, KMH, Hansen, B & Rasmussen, TAS 2017, 'Phenologically distinct phytoplankton regions on the Faroe Shelf: identified by satellite data, in-situ observations and model', *Journal of Marine Systems*, vol. 169, pp. 99-110. <https://doi.org/10.1016/j.jmarsys.2017.01.015>
11. Pacariz, SV, Hátún, H, Jacobsen, JA, Johnson, C, Eliassen, S & Rey, F 2016, 'Nutrient-driven poleward expansion of the Northeast Atlantic mackerel (*Scomber scombrus*) stock: A new hypothesis', *Elementa: Science of the Anthropocene*, vol. 4, 000105, pp. 1-13. <https://doi.org/10.12952/journal.elementa.000105>
12. Eliassen, SK, Hansen, B, Larsen, KMH & Hátun, H 2016, 'The exchange of water between the Faroe Shelf and the surrounding waters and its effect on the primary production', *Journal of Marine Systems*, vol. 153, pp. 1-9. <https://doi.org/10.1016/j.jmarsys.2015.08.004>
13. Eliassen, SK, Gaard, E, Hansen, B & Larsen, KMH 2005, 'A "horizontal Sverdrup mechanism" may control the spring bloom around small oceanic islands and over banks', *Journal of Marine Systems*, vol. 56, no. 3-4, pp. 352-362. <https://doi.org/10.1016/j.jmarsys.2005.03.005>
14. Hansen, B, Eliassen, SK, Gaard, E & Larsen, KMH 2005, 'Climatic effects on plankton and productivity on the Faroe Shelf', *ICES Journal of Marine Science*, vol. 62, no. 7, pp. 1224-1232. <https://doi.org/10.1016/j.icesjms.2005.04.014>

Research outputs – Other Contributions

1. Clementsen, JJ & Eliassen, SK 2024, *Evaluation of sample size of Faroese commercial catches of pelagic species*. Faroe Marine Research Institute, Tórshavn.
2. Clementsen, JJ & Eliassen, SK 2024, *Stock assessment of Sprat in Faroe Islands*. Faroe Marine Research Institute, Tórshavn.
3. Eliassen, SK, í Homrum, E, Jacobsen, JA, Kristiansen, I, Óskarsson, GJ, Salthaug, A & Stenevik, EK 2022, 'Herring in Norwegian Sea in May 1996-2020', Symposium on Decadal Variability of the North Atlantic and its Marine Ecosystems: 2010-2019, Bergen, Norway, 20/06/22 - 22/11/22.
4. Arneberg, P (ed.), Olafsdóttir, AS (ed.), Eliassen, SK, Jacobsen, JA, í Homrum, E & Steingrund, P 2022, *Working Group on the Integrated Assessments of the Norwegian Sea (WGINOR; outputs from 2021 meeting)*. ICES Scientific Reports, vol. 4, 35 edn, ICES, Copenhagen, Denmark. <https://doi.org/10.17895/ices.pub.19643271>
5. Salter, I, Eliassen, SK & Jacobsen, S 2020, *Variability in the relationship between in-situ fluorescence and chlorophyll-a concentration in Faroese waters (2002-2019): Recommendations for database management*. Faroe Marine Research Institute.
6. Eliassen, SK 2004, *A Mathematical Model of the Primary Production on the Faroe Shelf with cylinder bottom topography*. Faroe Marine Research Institute, Tórshavn.
7. Eliassen, SK 2004, *Zero-Dimensional Model of the Lowest Trophical Levels of the Marine Ecosystem on the Faroe Shelf*. Faroe Marine Research Institute, Tórshavn.
8. Eliassen, SK & Hansen, B 2003, *Light in Faroese Waters*. Faroe Marine Research Institute, Tórshavn .
9. Eliassen, SK, Gaard, E & Hansen, B 2002, *A Mathematical Model of the Lowest Trophical Levels on the Faroese Shelf*. Faroe Marine Research Institute, Tórshavn.