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Research interests

My main research interests are:

- (i) Large scale physical oceanography
- (ii) Biogeography of sub-polar North Atlantic
- (iii) Climate monitoring

Employment

Havstovan - Faroe Marine Research Institute

Pure Faroe Islands

Faroe Islands

25 Mar 2021 → present

Fróðskaparsetur Føroya - The University of the Faroe Islands

Pure Faroe Islands

Tórshavn, Faroe Islands

1 Aug 2017 → 31 Dec 2025

Náttúruvísindadeildin - Faculty of Science and Technology

Fróðskaparsetur Føroya - The University of the Faroe Islands

Faroe Islands

1 Aug 2017 → 31 Dec 2025

Havstovan - Faroe Marine Research Institute

Pure Faroe Islands

Faroe Islands

18 Aug 2000 → present

Peer Reviewed Research

1. Berntsen, JP, Hansen, B, Østerhus, S, Larsen, KMH & Hátun, H 2024, 'Effects of a surface layer cross-flow and slope steepness on the rate of descent of dense water flows along a slope', *Ocean Dynamics - Theoretical, Computational and Observational Oceanography*, vol. 74, pp. 879-899. <https://doi.org/10.1007/s10236-024-01642-7>
2. Larsen, KMH, Hansen, B, Hátun, H, Johansen, GE, Østerhus, S & Olsen, SM 2024, 'The Coldest and Densest Overflow Branch Into the North Atlantic is Stable in Transport, But Warming', *Geophysical Research Letters*, vol. 51, no. 16. <https://doi.org/10.1029/2024GL110097>
3. Hansen, B, Larsen, KMH, Hátun, H, Olsen, SM, Gierisch, AMU, Østerhus, S & Ólafsdóttir, SR 2023, 'The Iceland–Faroe warm-water flow towards the Arctic estimated from satellite altimetry and in situ observations', *Ocean Science*, vol. 19, no. 4, pp. 1225-1252. <https://doi.org/10.5194/os-19-1225-2023>
4. Skagseth, Ø, Broms, C, Gundersen, K, Hátun, H, Kristiansen, I, Larsen, KMH, Mork, KA, Petursdóttir, H & Søliland, H 2022, 'Arctic and Atlantic Waters in the Norwegian Basin, Between Year Variability and Potential Ecosystem Implications', *Frontiers in Marine Science*, vol. 9, pp. 1-14. <https://doi.org/10.3389/fmars.2022.831739>
5. Kristiansen, I, Hátun, H, Jacobsen, JA, Eliassen, SK, Petursdóttir, 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>
6. Ofstad, LH, Hátun, H, Pedersen, T, Steingrund, P & Mikkelsen, B 2022, 'Horizontal and Vertical Migration of Anglerfish *Lophius piscatorius* in Relation to Hydrography in Faroese Waters', *Frontiers in Marine Science*, vol. 9, 823066, pp. 1-17. <https://doi.org/10.3389/fmars.2022.823066>

7. Jacobsen, S, Gaard, E & Hátun, H 2022, 'Declining Pre-bloom *Calanus finmarchicus* Egg Production Adjacent to Two Major Overwintering Regions in the Northeastern Atlantic', *Frontiers in Marine Science*, vol. 9, 822978, pp. 1-11. <https://doi.org/10.3389/fmars.2022.822978>
8. Hátun, 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.
9. Hátun, H, Chafik, L & Larsen, KMH 2021, 'The Norwegian Sea Gyre: A Regulator of Iceland-Scotland Ridge Exchanges', *Frontiers in Marine Science*, vol. 8, 694614, pp. 1-15. <https://doi.org/10.3389/fmars.2021.694614>
10. Kristiansen, I, Jónasdóttir, SH, Gaard, E, Eliassen, SK & Hátun, 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>
11. Post, S, Werner, KM, Núñez-Riboni, I, Chafik, L, Hátun, H & Jansen, T 2021, 'Subpolar gyre and temperature drive boreal fish abundance in Greenland waters', *Fish and Fisheries*, vol. 22, no. 1, pp. 161-174. <https://doi.org/10.1111/faf.12512>
12. Cisewski, B, Hátun, 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>
13. Chafik, L, Hátun, H, Kjellsson, J, Larsen, KMH, Rossby, T & Berx, B 2020, 'Discovery of an unrecognized pathway carrying overflow waters toward the Faroe Bank Channel', *Nature Communications*, vol. 11, no. 1, 3721 (2020), pp. 1-10. <https://doi.org/10.1038/s41467-020-17426-8>
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15. Koul, V, Tesdal, J-E, Bersch, M, Hátun, H, Brune, S, Borchert, L, Haak, H, Schrum, C & Baehr, J 2020, 'Unraveling the choice of the north Atlantic subpolar gyre index', *SCIENTIFIC REPORTS*, vol. 10, 1005, pp. 1-12. <https://doi.org/10.1038/s41598-020-57790-5>
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17. Jacobsen, S, Gaard, E, Hátun, H, Steingrund, P, Larsen, KMH, Reinert, J, Ólafsdóttir, SR, Poulsen, M & Vang, HBM 2019, 'Environmentally Driven Ecological Fluctuations on the Faroe Shelf Revealed by Fish Juvenile Surveys', *Frontiers in Marine Science*, vol. 6, 559, pp. 1-12. <https://www.frontiersin.org/articles/10.3389/fmars.2019.00559/full>
18. Kristiansen, I, Hátun, H, Petursdottir, 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>
19. 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>
20. Hátun, H & Chafik, L 2018, 'On the Recent Ambiguity of the North Atlantic Subpolar Gyre Index', *Journal of Geophysical Research: Oceans*, vol. 123, 2018JC014101, pp. 5072-5076. <https://doi.org/10.1029/2018JC014101>
21. Bonitz, FGW, Andersson, C, Trofimova, T & Hátun, H 2018, 'Links between phytoplankton dynamics and shell growth of *Arctica islandica* on the Faroe Shelf', *Journal of Marine Systems*, vol. 179, pp. 72-87. <https://doi.org/10.1016/j.jmarsys.2017.11.005>
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24. 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>
25. Hátun, H, Olsen, B & Pacariz, S 2017, 'The dynamics of the North Atlantic subpolar gyre introduces predictability to the breeding success of kittiwakes', *Frontiers in Marine Science*, vol. 4, 123. <https://doi.org/10.3389/fmars.2017.00123>
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28. Hansen, B, Larsen, KMH, Hátún, H & Østerhus, S 2016, 'A stable Faroe Bank Channel overflow 1995-2015', *Ocean Science*, vol. 12, no. 6, pp. 1205-1220. <https://doi.org/10.5194/os-12-1205-2016>
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30. Kristiansen, I, Gaard, E, Hátún, H, Jónasdóttir, S & Ferreira, SA 2016, 'Persistent shift of Calanus spp. in the southwestern Norwegian Sea since 2003, linked to ocean climate', *ICES Journal of Marine Science*, vol. 73, no. 5, pp. 1319-1329. <https://doi.org/10.1093/icesjms/fsv222>
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32. Eliassen, SK, Hansen, B, Larsen, KMH & Hátún, 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>
33. Djurhuus, A, Jørgensen, J, Hátún, H, Debes, HH & Christiansen, DH 2015, 'Seasonal progression of microbial communities on the Faroe shelf', *Marine Biology Research*, vol. 11, no. 9, pp. 895-908. <https://doi.org/10.1080/17451000.2015.1041532>
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Non Peer Reviewed Research

1. Johansen, GE, Hansen, B, Larsen, KMH, Hátún, H, Olsen, SM, Gierisch, AMU & Ólafsdóttir, SR 2024, 'Water mass modification of the warm Atlantic Inflow towards the Arctic across the Iceland-Faroe Ridge', Climate research, marine environment and the UN Decade of Ocean Science for Sustainable Development, Nuuk, Greenland, 2/10/24 - 3/10/24.
2. Mortensen, E, Larsen, KMH, Hansen, B, Hátún, H, Kristiansen, R & Østerhus, S 2023, *ADCP deployments in Faroese Waters 2022 - 2023*. Faroe Marine Research Institute.
3. Hansen, B, Larsen, KMH & Hátún, H 2023, *Adapting Faroe Current monitoring to a reprocessed altimetry data set*. Havstovan - Faroe Marine Research Institute, Tórshavn.
4. Hansen, B, Larsen, KMH, Hátún, H, Mortensen, E & Kristiansen, R 2023, *Quality control and calibration of Faroe Bank Channel bottom temperature..*
5. Mortensen, E, Larsen, KMH, Hansen, B, Hátún, H, Kristiansen, R & Østerhus, S 2022, *ADCP deployments in Faroese Waters 2021 - 2022*. Faroe Marine Research Institute.
6. Jacobsen, S, Gaard, E & Hátún, H 2022, 'Declining prebloom *Calanus finmarchicus* egg production: adjacent two major overwintering regions in the Northeastern Atlantic'.
7. Hátún, H, Larsen, KMH, Jacobsen, S, Salter, I & Gaard, E 2022, *Open ocean nutrient sampling in Faroese water 2013-2020*. Faroe Marine Research Institute.
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10. Hansen, B, Larsen, KMH, Hátún, H & Østerhus, S 2020, *Atlantic water extent on the Faroe Current monitoring section*. Havstovan - Faroe Marine Research Institute, Tórshavn.
11. Hansen, B, Larsen, KMH, Hátún, H, Mortensen, E, Kristiansen, R & Østerhus, S 2019, *Faroe Current and Faroe Bank Channel overflow 2018-2019*. Havstovan - Faroe Marine Research Institute, Tórshavn.
12. Hansen, B, Larsen, KMH, Hátún, H, Jochumsen, K & Østerhus, S 2019, *Monitoring the hydrographic structure of the Faroe Current*. Havstovan - Faroe Marine Research Institute, Tórshavn.
13. Hansen, B, Larsen, KMH & Hátún, H 2019, *Monitoring the velocity structure of the Faroe Current*. Havstovan - Faroe Marine Research Institute, Tórshavn.
14. Mortensen, E, Larsen, KMH, Hansen, B, Hátún, H, Kristiansen, R & Østerhus, S 2019, *FARMON II Deployments in Faroese Waters 2018 - 2019*. Faroe Marine Research Institute, Tórshavn.
15. Mortensen, E, Larsen, KMH, Hansen, B, Hátún, H, Kristiansen, R & Østerhus, S 2018, *FARMON Deployments in Faroese Waters 2017 - 2018*. Faroe Marine Research Institute, Tórshavn.

16. Larsen, KMH, Hátun, H, Berx, B & Rossby, T (eds) 2017, *Workshop on currents and transports across the Iceland-Faroe-Scotland Ridge*. Havstovan - Faroe Marine Research Institute, Tórshavn.
17. Hátun, H, Pacariz, S, Jacobsen, JA, Sentyabov, E, Kalashnikov, Y & Krysov, AI 2016, *Marine climate and mackerel distribution*. Havstovan - Faroe Marine Research Institute, Tórshavn.
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19. Hansen, B, Hátun, H, Larsen, KMH, Kristiansen, R, Mortensen, E & Østerhus, S 2014, *Atlantic water flow between Iceland and Faroes 2012 – 2013*. Havstovan - Faroe Marine Research Institute, Tórshavn.
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21. Hátun, H, Larsen, KMH & Debes, HH 2013, *The Western region*. Havstovan - Faroe Marine Research Institute, Tórshavn.
22. Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Mortensen, E 2013, *Current measurements on the Faroe Shelf 2011*. Havstovan - Faroe Marine Research Institute, Tórshavn.
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24. Nilsen, JEØ, Hátun, H, Mork, KA & Valdimarsson, H 2008, *The NISE Dataset*. Havstovan - Faroe Marine Research Institute, Tórshavn.
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