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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. 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>
2. Skagseth, Ø, Broms, C, Gundersen, K, Hátun, H, Kristiansen, I, Larsen, KMH, Mork, KA, Petursdottir, H & Søiland, 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>
3. Kristiansen, I, Hátun, 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>
4. 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>
5. 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>
6. 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.

7. Hátún, 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>
8. 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>
9. Post, S, Werner, KM, Núñez-Riboni, I, Chafik, L, Hátún, 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>
10. 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>
11. Chafik, L, Hátún, 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>
12. Holliday, NP, Bersch, M, Berx, B, Chafik, L, Cunningham, S, Florindo-López, C, Hátún, H, Johns, W, Josey, SA, Larsen, KMH, Mulet, S, Oltmanns, M, Reverdin, G, Rossby, T, Thierry, V, Valdimarsson, H & Yashayaev, I 2020, 'Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic', *Nature Communications*, vol. 11, no. 1, 585, pp. 1-15. <https://doi.org/10.1038/s41467-020-14474-y>
13. Koul, V, Tesdal, J-E, Bersch, M, Hátún, 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>
14. Semper, S, Pickart, RSP, Larsen, KMH, Hátún, H & Hansen, B 2020, 'The Iceland-Faroe Slope Jet: a conduit for dense water toward the Faroe Bank Channel overflow', *Nature Communications*, vol. 11, no. 5390, pp. 1-10.
15. Jacobsen, S, Gaard, E, Hátún, 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>
16. Kristiansen, I, Hátún, 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>
17. Eliassen, SK, Hátún, 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>
18. Hátún, 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>
19. Bonitz, FGW, Andersson, C, Trofimova, T & Hátún, 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>
20. Jacobsen, S, Gaard, E, Larsen, KMH, Eliassen, SK & Hátún, 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>
21. Hátún, H, Azetsu-Scott, K, Somavilla, R, Rey, F, Johnson, C, Mathis, M, Mikolajewicz, U, Coupel, P, Tremblay, J-É, Hartman, S, Pacariz, SV, Salter, I & Ólafsson, J 2017, 'The subpolar gyre regulates silicate concentrations in the North Atlantic', *SCIENTIFIC REPORTS*, vol. 7, 14576, pp. 1-9. <https://doi.org/10.1038/s41598-017-14837-4>
22. Eliassen, SK, Hátún, 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>
23. Hátún, 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>
24. Eliassen, SK, Hátún, 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>
25. Hansen, B, Poulsen, T, Larsen, KMH, Hátún, H, Østerhus, S, Darelius, E, Berx, B, Quadfasel, D & Jochumsen, K 2017, 'Atlantic water flow through the Faroese Channels', *Ocean Science*, vol. 13, no. 6, pp. 873-888. <https://doi.org/10.5194/os-13-873-2017>
26. 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>
27. Hátún, H, Lohmann, K, Matei, D, Jungclauss, JH, Pacariz, S, Bersch, M, Gislason, A, Ólafsson, J & Reid, PC 2016, 'An inflated subpolar gyre blows life toward the northeastern Atlantic', *Progress in Oceanography*, vol. 147, pp. 49-66. <https://doi.org/10.1016/j.pocean.2016.07.009>

28. 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>
29. 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>
30. 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>
31. 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>
32. Ferreira, ASA, Hátún, H, Counillon, F, Payne, MR & Visser, AW 2015, 'Synoptic-scale analysis of mechanisms driving surface chlorophyll dynamics in the North Atlantic', *Biogeosciences*, vol. 12, no. 11, pp. 3641-3653. <https://doi.org/10.5194/bg-12-3641-2015>
33. Hansen, B, Larsen, KMH, Hátún, H, Kristiansen, R, Mortensen, E & Østerhus, S 2015, 'Transport of volume, heat, and salt towards the Arctic in the Faroe Current 1993-2013', *Ocean Science*, vol. 11, no. 5, pp. 743-757. <https://doi.org/10.5194/os-11-743-2015>
34. Trenkel, VM, Huse, G, MacKenzie, BR, Álvarez, P, Arrizabalaga, H, Castonguay, M, Nicolas, G, Grégoire, F, Hátún, H, Jansen, T, Jacobsen, JA, Lehodey, P, Lutcavage, ME, Mariani, P, Melvin, GD, Neilson, JD, Nøttestad, L, Óskarsson, GJ, Payne, MR, Richardson, DE, Senina, IN & Speirs, DC 2014, 'Comparative ecology of widely distributed pelagic fish species in the North Atlantic: Implications for modelling climate and fisheries impacts', *Progress in Oceanography*, vol. 129, no. Part B, pp. 219-243. <https://doi.org/10.1016/j.pocean.2014.04.030>
35. Rasmussen, TAS, Olsen, SM, Hansen, B, Hátún, H & Larsen, KMH 2014, 'The Faroe shelf circulation and its potential impact on the primary production', *Continental Shelf Research*, vol. 88, pp. 171-184. <https://doi.org/10.1016/j.csr.2014.07.014>
36. Homrum, EÍ, Hansen, B, Jónsson, SP, Michalsen, K, Burgos, J, Righton, D, Steingrund, P, Jakobsen, T, Mouritsen, R, Hátún, H, Armannsson, H & Joensen, JS 2013, 'Migration of saithe (*Pollachius virens*) in the Northeast Atlantic', *ICES Journal of Marine Science*, vol. 70, no. 4, pp. 782-792. <https://doi.org/10.1093/icesjms/fst048>
37. Jansen, T, Campbell, A, Kelly, C, Hátún, H & Payne, MR 2012, 'Migration and Fisheries of North East Atlantic Mackerel (*Scomber scombrus*) in Autumn and Winter', *PloS one*, vol. 7, no. 12, e51541, pp. 1-9. <https://doi.org/10.1371/journal.pone.0051541>
38. Zhai, L, Gudmundsson, K, Miller, P, Peng, W, Guðfinnsson, H, Debes, H, Hátún, H, White III, GN, Hernández Walls, R, Sathyendranath, S & Platt, T 2012, 'Phytoplankton phenology and production around Iceland and Faroes', *Continental Shelf Research*, vol. 37, pp. 15-25. <https://doi.org/10.1016/j.csr.2012.01.013>
39. Larsen, KMH, Hátún, H, Hansen, B & Kristiansen, R 2012, 'Atlantic water in the Faroe area: sources and variability', *ICES Journal of Marine Science*, vol. 69, no. 5, pp. 802-808. <https://doi.org/10.1093/icesjms/fss028>
40. í Homrum, E, Hansen, B, Hátún, H & Steingrund, P 2012, 'Growth, maturation, diet and distribution of saithe (*Pollachius virens*) in Faroese waters (NE Atlantic)', *Marine Biology Research*, vol. 8, no. 3, pp. 246-254. <https://doi.org/10.1080/17451000.2011.627921>
41. Payne, MR, Egan, A, Fässler, SMM, Hátún, H, Holst, JC, Jacobsen, JA, Slotte, A & Loeng, H 2012, 'The rise and fall of the NE Atlantic blue whiting (*Micromesistius poutassou*)', *Marine Biology Research*, vol. 8, pp. 475-487. <https://doi.org/10.1080/17451000.2011.639778>
42. Hansen, B, Hátún, H, Kristiansen, R, Olsen, SM & Østerhus, S 2010, 'Stability and forcing of the Iceland-Faroe inflow of water, heat, and salt to the Arctic', *Ocean Science*, vol. 6, no. 4, pp. 1013-1026. <https://doi.org/10.5194/os-6-1013-2010>
43. Steingrund, P, Mouritsen, R, Reinert, J, Gaard, E & Hátún, H 2010, 'Total stock size and cannibalism regulate the recruitment in cod (*Gadus morhua* L.) on the Faroe Plateau', *ICES Journal of Marine Science*, vol. 67, no. 1, pp. 111-124. <https://doi.org/10.1093/icesjms/fsp240>
44. Hátún, H & Gaard, E 2010, 'Marine climate, squid and pilot whales in the northeastern Atlantic', *Annales Societatis Scientiarum Færoensis Supplementum*, vol. 52, pp. 50-68.
45. Hátún, H, Payne, MR, Beaugrand, G, Reid, PC, Sandø, AB, Drange, H, Hansen, B, Jacobsen, JA & Bloch, D 2009, 'Large bio-geographical shifts in the north-eastern Atlantic Ocean: From the subpolar gyre, via plankton, to blue whiting and pilot whales', *Progress in Oceanography*, vol. 80, pp. 149-162. <https://doi.org/10.1016/j.pocean.2009.03.001>
46. Hátún, H, Payne, MR & Jacobsen, JA 2009, 'The North Atlantic subpolar gyre regulates the spawning distribution of blue whiting (*Micromesistius poutassou*)', *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 66, no. 5, pp. 759-770. <https://doi.org/10.1139/F09-037>

47. Hátún, H, Eriksen, CC & Rhines, PB 2007, 'Buoyant eddies entering the Labrador Sea observed with gliders and altimetry', *Journal of Physical Oceanography*, vol. 37, no. 12, pp. 2838-2854. <https://doi.org/10.1175/2007JPO3567.1>
48. Hátún, H, Sandø, AB, Drange, H, Hansen, B & Valdimarsson, H 2005, 'Ocean science: Influence of the atlantic subpolar gyre on the thermohaline circulation', *Science*, vol. 309, no. 5742, pp. 1841-1844. <https://doi.org/10.1126/science.1114777>
49. Hátún, H, Sandø, AB, Drange, H & Bentsen, M 2005, Seasonal to decadal temperature variations in the faroe-shetland inflow waters. in *The Nordic Seas: An Integrated Perspective*. vol. 158, Geophysical Monograph Series, vol. 158, American Geophysical Union, pp. 239-250. <https://doi.org/10.1029/158GM16>
50. Hátún, H, Hansen, B & Haugan, P 2004, 'Using an "inverse dynamic method" to determine temperature and salinity fields from ADCP measurements', *Journal of Atmospheric and Oceanic Technology*, vol. 21, pp. 527-534. [https://doi.org/10.1175/1520-0426\(2004\)021<0527:UAIDMT>2.0.CO;2](https://doi.org/10.1175/1520-0426(2004)021<0527:UAIDMT>2.0.CO;2)
51. Hátún, H & McClimans, TA 2003, 'Monitoring the Faroe Current using altimetry and coastal sea-level data', *Continental Shelf Research*, vol. 23, no. 9, pp. 859-868. [https://doi.org/10.1016/S0278-4343\(03\)00059-1](https://doi.org/10.1016/S0278-4343(03)00059-1)
52. Hansen, B, Østerhus, S, Hátún, H, Kristiansen, R & Larsen, KMH 2003, 'The Iceland-Faroe inflow of Atlantic water to the Nordic Seas', *Progress in Oceanography*, vol. 59, no. 4, pp. 443-474. <https://doi.org/10.1016/j.pocean.2003.10.003>

Non Peer Reviewed Research

1. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Østerhus, S 2023, *ADCP deployments in Faroese Waters 2022 - 2023*. Faroe Marine Research Institute.
2. Hansen, B, Larsen, KMH, Hátun, H, Mortensen, E & Kristiansen, R 2023, *Quality control and calibration of Faroe Bank Channel bottom temperature..*
3. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Østerhus, S 2022, *ADCP deployments in Faroese Waters 2021 - 2022*. Faroe Marine Research Institute.
4. Jacobsen, S, Gaard, E & Hátun, H 2022, 'Declining prebloom Calanus finmarchicus egg production: adjacent two major overwintering regions in the Northeastern Atlantic'.
5. Hátun, H, Larsen, KMH, Jacobsen, S, Salter, I & Gaard, E 2022, *Open ocean nutrient sampling in Faroese water 2013-2020*. Faroe Marine Research Institute.
6. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Østerhus, S & Kristiansen, R 2021, *ADCP deployments in Faroese Waters 2020 - 2021*. Faroe Marine Research Institute, Tórshavn.
7. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Østerhus, S 2020, *ADCP deployments in Faroese Waters 2019 - 2020*. Faroe Marine Research Institute, Tórshavn.
8. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Østerhus, S 2019, *FARMON II Deployments in Faroese Waters 2018 - 2019*. Faroe Marine Research Institute, Tórshavn.
9. Mortensen, E, Larsen, KMH, Hansen, B, Hátun, H, Kristiansen, R & Østerhus, S 2018, *FARMON Deployments in Faroese Waters 2017 - 2018*. Faroe Marine Research Institute, Tórshavn.