

## CV Petur Steingrund

Faroe Marine Research Institute  
Nóatún 1, P.O. Box 3051  
FO 110 Tórshavn  
Faroe Islands  
Tel. +298 35 39 00 Tel. dir. +298 35 39 33  
E-mail: peturs@hav.fo



**Profession** Fisheries biology, Ph.D.

**Current position** Scientist, Head of Demersal Department, Faroe Marine Research Institute

**Education**

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| 1993 | Fisheries biologist (Cand. scient) at the University of Bergen |
| 2009 | Dr. Philos. at the University of Bergen                        |

Title: " The near-collapse of the Faroe Plateau cod (*Gadus morhua* L.) stock in the 1990s: The effect of food availability on spatial distribution, recruitment, natural production and fishery".

### Work and experience

- Fisheries biologist at Faroe Marine Research Institute from 1995 to present.
- Teacher in biology and chemistry at Studentaskúlin og HF-skeiðið í Eysturoy 1993 - 1995 (the level before university).
- Teacher in statistics and marine biology at the University of Faroe Islands
- Cruise leader of the annual Faroese groundfish surveys 1997 - present.
- Performed tagging experiments since 1997.
- Responsible for the survey database.
- Extensive experience in analysing fish stomachs.
- Member of the ICES North Western Working Group (assessment of fish stocks) since 1997.
- Chairman of North Western Working Group 2012-2014.
- ICES ACOM observer since 2016.
- The research topics have centered on Faroe Plateau cod and the processes regulating distribution, behaviour, recruitment, growth, production, and fishery.

**Language capacity**

|           |               |
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| Faroese   | Mother tongue |
| Danish    | Fluent        |
| Norwegian | Fluent        |
| Icelandic | Good          |
| English   | Good          |

### Selected peer-reviewed publications

- Steingrund P., Fernø A. 1997.* Feeding behaviour of reared and wild cod and the effect of learning: two strategies of feeding on the two-spotted goby. *Journal of Fish Biology* 51: 334-348. <https://doi.org/10.1111/j.1095-8649.1997.tb01670.x>
- Steingrund P. 1999.* Studies of vertical migration of wild Faroe Plateau cod by use of Data Storage Tags. ICES CM 1999/AA:02.
- Nødtvedt M., Fernø A., Gjørsvater J., Steingrund P. 1999.* Anti-predator behaviour of hatchery-reared and wild juvenile Atlantic cod (*Gadus morhua* L.), and the effect of predator training. In: *Stock Enhancement and Sea Ranching*. Ed. by Howell B.R., Moksness E., and Svåsand T. 350-362.

- Joensen H., Steingrund P., Fjallstein I., and Grahl-Nielsen O. 2000. Discrimination between two reared stocks of cod (*Gadus morhua*) from the Faroe Islands by chemometry of the fatty acid composition in the heart tissue. *Marine Biology* 136: 573-580. <https://doi.org/10.1007/s002270050717>
- Gaard E., Steingrund P. 2001. Reproduction of Faroe Plateau cod. Spawning grounds, egg advection and larval feeding. *Fróðskaparrit*, 48: 87-103.
- Tuene S., Gundersen A. C., Emblem W. M., Fossen I., Boje J., Steingrund P., Ofstad L. H. 2002. Maturation and occurrence of atresia in oocytes of Greenland halibut (*Reinhardtius hippoglossoides* W.) in the waters of East Greenland, Faroe Islands and Hatton Bank. In: *Reproduction of West-Nordic Greenland halibut. Studies reflecting on maturity, fecundity, spawning and TEP*, pp. 39-71. Ed. by A. C. Gundersen. TemaNord 2002:519. © Nordic Council of Ministers, Copenhagen 2002. 323pp.
- Gundersen A. C., Emblem W. M., Hellevik A. H., Steingrund P., Ofstad L. H. 2002. Fecundity of Greenland halibut (*Reinhardtius hippoglossoides*) in Faroese waters, summer 1999. In: *Reproduction of West-Nordic Greenland halibut. Studies reflecting on maturity, fecundity, spawning and TEP*, pp. 175-195. Ed. by A. C. Gundersen. TemaNord 2002:519. © Nordic Council of Ministers, Copenhagen 2002. 323pp.
- Steingrund, P., Ofstad, L.H., Olsen, D. 2003. Effect of recruitment, individual weights, fishing effort, and fluctuating longline catchability on the catch of the Faroe Plateau cod (*Gadus morhua* L.) in the period 1989-1999. *ICES Marine Science Symposia*, 219: 418-420.
- Steingrund, P. and Gaard, E. 2003. Relationship between phytoplankton production and cod production on the Faroe shelf. *ICES CM* 2003. P:40. <https://doi.org/10.1016/j.icesjms.2004.08.019>
- Jákupsstovu, S.H. í, Reinert J., Steingrund P. 2004. Cod in Faroese Waters. 10th Norwegian – Russian symposium, Bergen 2003. 16 pp.
- Steingrund, P., Gaard, E. 2005. Relationship between phytoplankton production and cod production on the Faroe shelf. *ICES Journal of Marine Science*, 62: 163-176. <https://doi.org/10.1016/j.icesjms.2004.08.019>
- Steingrund, P., Hansen, B., Gaard, E. 2005. Cod in Faroese waters. In: *Spawning and life history information for North Atlantic cod stocks: 50-55*, edited by Brander, K. ICES Cooperative Research Report 274.
- Joensen, J.S., Steingrund, P., Henriksen, A., Mouritsen, R. 2005. Migration of cod (*Gadus morhua*): tagging experiments at the Faroes 1952-65. *Fróðskaparrit* 53: 100-135.
- Smith, L., Steingrund, P. 2006. Data-validation of gross data-quantities: a practical approach. *ICES ASC CM* 2006 / N: 15.
- Pampoulie, C., Steingrund, P., Stefánsson, M.Ö., Daniëlsdóttir, A.K. 2008. Genetic divergence among East Icelandic and Faroese populations of Atlantic cod provides evidence for historical imprints at neutral and non-neutral markers. *ICES Journal of Marine Science*, 65: 65-71. <https://doi.org/10.1093/icesjms/fsm181>
- Steingrund, P. 2009. The near-collapse of the Faroe Plateau cod (*Gadus morhua* L.) stock in the 1990s: The effect of food availability on spatial distribution, recruitment, natural production and fishery. Dr. Philos. thesis at the University of Bergen, 2009. 320 pp. <http://hdl.handle.net/1956/3697> - please use this link when you quote this publication.
- Steingrund, P., Clementsen, D. H., Mouritsen, R. 2009. Higher food abundance reduces the catchability of cod (*Gadus morhua*) to longlines on the Faroe Plateau. *Fisheries Research*, 100: 230-239. <https://doi.org/10.1016/j.fishres.2009.08.002>
- Steingrund, P., Ofstad, L.H. 2010. Density-dependent distribution of Atlantic cod (*Gadus morhua*) into deep waters on the Faroe Plateau. *ICES Journal of Marine Science*, 67: 102-110. <https://doi.org/10.1093/icesjms/fsp230>
- Steingrund, P., Mouritsen, R., Reinert, J., Gaard, E., and Hátún, H. 2010. Total stock size and cannibalism regulate recruitment in cod (*Gadus morhua*) on the Faroe Plateau. *ICES Journal of Marine Science*, 67: 111-124. <https://doi.org/10.1093/icesjms/fsp240>
- Righton, D.A., Andersen, K.H., Neat, F., Thorsteinsson, V., Steingrund, P., Svedäng, H., Michalsen, K., Hinrichsen, H.-H., Bendall, V., Neuenfeldt, S., Wright, P., Jonsson, P., Huse, G., van der Kooij, J., Mosegaard, H., Hüsey, K., Metcalfe, J. 2010. Thermal niche of Atlantic cod *Gadus morhua*: limits, tolerance and optima. *Marine Ecology Progress Series*, 420: 1-13. <https://doi.org/10.3354/meps08889>
- Neuenfeldt, S., Righton, D., Neat, F., Wright, P.J., Svedang, H., Michalsen, K., Subbey, S. Steingrund, P., Thorsteinsson, V., Pampoulie, C., Andersen, K. H., Pedersen, M.W., Metcalfe, J. 2013. Analysing migrations of Atlantic cod *Gadus morhua* in the north-east Atlantic Ocean: then, now and the future. *Journal of Fish Biology* (2013) 82, 741–763. <https://doi.org/10.1111/jfb.12043>

- Ofstad, L. H., Pedersen, T., Angus, C. H., Steingrund, P. 2013. Age and growth of anglerfish (*Lophius piscatorius*) in Faroese waters. Fisheries Research, 139: 51-60. <https://doi.org/10.1016/j.fishres.2012.05.011>
- Pedersen, J. B., Ankjær, T. T., Kjeldsen, H., Heinemeier, J., Steingrund, P., Nielsen, J. M., Christensen, J. T. 2013. Stable N and C isotopes in the organic matrix of fish otoliths: validation of a new approach for studying spatial and temporal changes in the trophic structure of aquatic ecosystems. Canadian Journal of Fisheries and Aquatic Sciences, Volume 70, Number 2, December 2013, pp. 143-146(4). <https://doi.org/10.1139/cjfas-2012-0386>
- Norði, G., Simonsen, K., Danielsen, E., Eliassen, K., Mols-Mortensen, A., Christiansen, D.H., Steingrund, P., Galbraith, M., and Patursson, Ø. 2015. Abundance and distribution of planktonic *Lepeophtheirus salmonis* and *Caligus elongatus* in a fish farming region in the Faroe Islands. Aquaculture Environment Interactions, vol. 7: 15-27, 2015. <https://doi.org/10.3354/aei00134>
- Ottosen, K. M., Pedersen, M. W., Eliassen, S. K., Steingrund, P., Magnussen, E., Rasmussen, T. A. S., 2017. Migration patterns of the Faroe Plateau cod (*Gadus morhua*, L.) revealed by data storage tags. Fisheries Research 195 (2017): 37-45. <https://doi.org/10.1016/j.fishres.2017.06.014>
- Ottosen, K.M., Steingrund, P., Magnussen, E., Payne, M. R. 2018. Distribution and timing of spawning Faroe Plateau cod in relation to warming spring temperatures. Fisheries Research 198 (2018): 14-23. <https://doi.org/10.1016/j.fishres.2017.10.022>
- Buhl-Mortensen, L., Burgos, J. M., Steingrund, P., Buhl-Mortensen, P.B., Ólafsdóttir, S.H. and Ragnarsson, S.A. 2019. Vulnerable marine ecosystems (VMEs). Coral and sponge VMEs in Arctic and sub-Arctic waters – distribution and threats. Nordic Council Ministers, TEMANord 2019:519. DOI: 10.6027/TN2019-519. <https://doi.org/10.6027/TN2019-519>
- Burgos, J. M., Buhl-Mortensen, L., Buhl-Mortensen, P., Ólafsdóttir, S. H., Steingrund, P., Ragnarsson, S. Á., Skagseth, Ø. 2020. Predicting the Distribution of Indicator Taxa of Vulnerable Marine Ecosystems in the Arctic and Sub-arctic Waters of the Nordic Seas. Frontiers in Marine Science, 10 March 2020. <https://doi.org/10.3389/fmars.2020.00131>
- Jacobsen, S., Klitgaard Nielsen, K., Kristiansen, R., GrønkJær, P., Gaard, E., Steingrund, P. 2020. Diet and prey preferences of larval and pelagic juvenile Faroe Plateau cod (*Gadus morhua*). Marine Biology volume 167. <https://doi.org/10.1007/s00227-020-03727-5>