

CURRICULUM VITAE

Anna Maria Fosaa

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Faroese Museum on Natural History
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Profession: Biologist, Ph.D.

Specialisation: Vegetation ecology

Current position: Director of the Museum and Head of Botanical Department, Faroese Museum of Natural History

Associate Professor at University of the Faroe Islands

Nationality: Faroese

Main research fields

- The effect of climate change on mountain vegetation
- Plant communities in the Faroe Islands.
- Biodiversity pattern along mountain slopes
- The effects of sheep grazing on the vegetation
- Lichen ecology in the Faroe Islands

Education

2003 Philosophy Doctor (PhD) in plant ecology at Lund University, Sweden (Doctoral thesis: “Mountain vegetation in the Faroe Islands in a climate change perspective”)

1987 Master`s degree (MSc) in the biology at the University of Copenhagen (Masters thesis: “The Ecology and Distribution of Lichens on the Faroe Islands”).

Other qualifications

2007 An Introduction to Social Sciences: Understanding social change. Part 1. Open University.

2007 Nordic Museum Leaders Education. Association of Danish Museums. London.

2006 Nordic Museum Leaders Education. Associations of Danish Museums. Denmark.

Employments

2009-present. Director of the Faroese Museum of Natural History.

2001- present. Associate Professor, Faroese University

1997- present. Teaching botany and vegetation ecology at the Faroese University.
 1996-present. Head of the Botanical Department of the Faroese Museum of Natural History.
 1988-1996. Occupation as a senior civil servant at the Department of Fisheries and other Trades the Faroese Home Government, including aquaculture, agriculture, wild animals and energy.
 1987-1988. Teaching in botany at the Royal Veterinary and Agricultural University of Copenhagen.
 1985-1987. Assistant at “Lichen herbarium” at the Museum of Botany in Copenhagen.
 1981-1983. Assistant teacher at courses in botany arranged for primary school teachers at the Faroese Museum of Natural History.
 1980-1985. Assistant at the Botanical Department of the Faroese Museum of Natural History.

Representations in working groups, boards, advisory bodies etc.

2010-present. Member of the Central Nature Conservancy Board.
 2008-2009. President of the Faroese Scientific Society (Føroya Fróðskaparfelag).
 2005- present. Member of the IUCN Species Survival Commission (SSC) Arctic Plant Specialist Group.
 2004- 2008. Member of the Science and Technology Faculty Council of the University of the Faroe Islands
 2003- present. Faroese coordinator of CAFF (Conservation on Arctic Flora and Fauna), and member of the flora group (CFG).
 1996- present. The Committee for mapping the Flora of Europe
 1996- present. The National Advisor in Flora Nordica
 1996- 2009. Member of the working group for Nature, Open Air and Cultural Environment (NFK).
 1996-2006. Member of an editorial group drawing up an explanatory statement on biodiversity on the Faroe Islands.
 1996. The Faroese representative in a Nordic working party whose task it is to draw up a Nordic book on Biodiversity.
 1996. The Faroese representative in the Danish executive group analysing the consequences of the climatic changes in the Faroe Islands and in Greenland.
 1996-2003. In a Nordic project on environmental protection responsible for the botanical investigations on the Faroe Islands.
 1994 and 1995. Part of the Danish delegation at the annual meeting of North Atlantic Salmon Conservation Organisation (NASCO).
 1994 and 1995. Head of the Faroese delegation at the annual meeting of the North Atlantic Marine Mammal Commission.
 1991 and 1995. Part of the Danish delegation at the annual meeting of the International Whaling Commission (IWC).

Peer-reviewed publications

Dagmar Hagen, Kristin Svavarsdottir, Christer Nilsson, Anne Tolvanen, Karsten Raulund-Rasmussen, Asa L. Aradóttir, Anna Maria Fosaa, and Guðmundur Halldórsson 2013
 Ecological and social dimensions of ecosystem restoration in the Nordic countries **In Press**

Oberbauer, S.F., Elmendorf, S., Troxler, T.G., Hollister, R.D., Rocha, A. V., Brete-Harte, M.S., Dawes, M. A., Fosaa, A.M., Henry, G.H.R., Høye, T.T., Jarrad, F.C., Jónsdóttir, I.S., Klanderud, K., Klein, J.A., Molau, J., Rixen, C., Schmidt, N.M., Shaver, G.R., Slider, R.T., otland, Ø., Wahren C.-H., and Welker, J.W. 2013. Phenological response of tundra plants to background climate variation tested using the International Tundra Experiment. *Phil Trans R Soc* 368: 20120481.

<http://dx.doi.org/10.1098/rstb.2012.0481>

Elmendorf, Sarah; Henry, Greg; Bjorkman, Anne; Hollister, Robert; Björk, Robert; Callaghan, Terry; Collier, Laura; Cooper, Elisabeth; Cornelissen, Hans; Day, Thomas; Fosaa, Anna Maria; Gould, William; Grétarsdóttir, Járngerður; Harte, John; Hermanutz, Luise; Hik, David; Hofgaard, Annika; Jarrad, Frith; Jónsdóttir, Ingibjörg Svala; Keuper, Frida; Klanderud, Kari; Klein, Julia; Koh, Saewan; Kudo, Gaku; Lang, Simone; Loewen, Val; May, Jeremy; Mercado, Joel; Michelsen, Anders; Molau, Ulf; Myers-Smith, Isla; Oberbauer, Steven; Pieper, Sara; Post, Eric; Rixen, Christian; Robinson, Clare; Schmidt, Niels; Shaver, Gaius; Stenström, Anna; Tolvanen, Anne; Totland, Orjan; Troxler, Tiffany; Wahren, Carl-Henrik; Webber, Patrick; Welker, Jeffrey; Wookey, Philip

2012. Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. *Ecology Letters*, 15: 164-175.

Fosaa, A.M., Danielsen, O and Nyholm Debess, H. 2012. The influence of experimental warming on flowering phenology of Moss Campion, *Silene acaulis*. *Fróðskaparrit*. 59:104-112.

Fosaa, A.M. 2010. The vertical distribution of the vegetation in the Faroe Islands past present, south and north. In Dorete –her book, Bengtson S-A, Buckland P., Enckell, P.H. and Fosaa A.M. (eds.) *Annales Societatis Scientiarum Færoensis Supplementum* 52.

Fosaa, A.M., Olsen, E., Simonsen, W., Gaard, M. and Hansen, H. 2010. Vegetation transition following drainage in a high-latitude hyper- oceanic ecosystem. *Applied Vegetation Science* 13: 249-256.

Guldager Christiansen, H., Fosaa, A.M. 2009. Færøernes ældste kulturplanter. *Fróðskaparrit*. 57:128-149.

Simonsen, W., Fosaa, A.M., Olsen, E. and Mikkelsen, J. 2008. Carabids in north western Eysturoy, Faroe Islands: Distribution and influence of draining. *Fróðskaparrit*. 55.

Fosaa, A. M. and Olsen E. 2007. The impact of grazing on mountain vegetation and the arbuscular mycorrhizal symbiont. *Fróðskaparrit*. 55:177-187.

Fosaa, A. M., Lawesson, J.E., and Sykes, M.T. 2006. Distribution of Raunkiær's life-forms along altitudinal gradients in the Faroe Islands. *Fróðskaparrit*. 54:114-130.

Fosaa, A.M. 2004. Biodiversity patterns of vascular plant species in mountain vegetation in the Faroe Islands: *Diversity and Distribution*, 10: 217-223.

Fosaa, A. M., Lawesson, J.E., and Sykes, M.T and Gaard, M. 2004. Potential effects of climate change on the vegetation in the Faroe Islands: *Global Ecology and Biogeography*, 13: 427-437.

Fosaa, A. M. 2004. Altitudinal distribution of plant communities in the Faroe Islands. *Fróðskaparrit*, 51: 200-211.

Fosaa, A.M. 2003. Mountain vegetation in the Faroe Islands in a Climate Change Perspective. PhD thesis, Department of Ecology, Plant Ecology and Systematics, Lund University Sweden.

Lawesson J. E. and Fosaa, A. M. 2003. Calibration of Ellenberg indicator values for the Faroe Islands: *Applied Vegetation Science*, 6: 53-62.

Olsen, E. & Fosaa A. M. 2002. The Mycorrhizal Status in Mountainous Vegetation in the Faroe Islands. *Fróðskaparrit*, 50: 121-130.

Fosaa, A. M. 2001: Plant communities in the Faroe Islands-a review: *Fróðskaparrit* 48:41-54.

Fosaa A.M, Lawesson; J.E., Sykes, M. 1999, *Saussurea alpina* (L.) DC. Subsp. *alpina* (Asteraceae) - Alpina Saw- Wort - a new record from the Faroe Islands. *Fróðskaparrit* 47:153-157.

Lawesson, J.E., Diekmann, M., Eilertsen, O., Fosaa, A. M. & Heikilla, H. 1997. The Nordic Vegetation Survey- concepts and perspectives. *J. Veg. Sci.* 8:455-458.

Fosaa, A.M. 1986-1987, The Ecology of some Marine and Maritime Lichens on Rocky Shores of the Faroe Islands: *Fróðskaparrit* 34-35: 91-106.

Hansen, E.S. and Fosaa, A.M. 1985 Additions to the Lichen Flora of the Faroes: *Mycotaxon* XXII: 149-158.

Andersen, E.M., Buchmann, K., Christensen, S.N., Fosaa, A.M., Hansen, F.B., Lund, I., Munck, M., Nielsen, T.B. & U. Söchting. 1983. Navlelaver - *Urt* 1983: 35-41.

Books and reports

Mette Risager, Hans Joosten, Franziska Tanneberger, Kevin J. Edwards and Anna Maria Fosaa Faroe Islands. 2013. IMCG European Mires Book **submitted**.

Anna Maria Fosaa, Fred J. A. Daniëls, Starri Heiðmarsson, Ingibjörg S. Jónsdóttir and Stephen S. Talbot 2013 Vegetation data from boreal tundra of the North Atlantic and North Pacific regions. In Walker, D.A. Breen, A.L., Reynolds, M.K. & Walker, M.D. (Ed.) 2013. Arctic Vegetation Arcive (AVA) Workshop, Krakow, Poland, April 14-16, 2013. CAFF Proceedings Report # 10. Akureyri, Iceland. ISBN: 978-9935-431-24-0.

Haldórsson, G., Aradóttir, Á.L., **Fosaa, A.M.**, Hagen, D., Nilsson, C., Raulund-Rasmussen, K, Skringo, A.B., Svavarsdóttir, S., and Tolvanen, A. ReNo, Restoration of damaged Ecosystems in the Nordic countries. TemaNord 2012:558.

Christensen, T., Payne, J.F, Schmidt, N.M., Madsen, J., Taylor, J. J., Doyle, M., Gill, M., Nymand, J., Svoboda, M., Rosa, C., Shuchman, B., Soloviev, M., Aronsson, M., Paakko, E., **Fosaa, A. M.**, Heidmarsson, S.& Solberg, B.Ø. 2011. Terrestrial Expert Monitoring Plan – background paper. A Supporting Publication to the CBMP Framework Document. CAFF International Secretariat, CAFF Monitoring Series Report Nr. 6. ISBN 978-9935-431-11-0

Fosaa A. M. Og William Simonsen (eds). 2011. Lendisnýtsla í Føroyum. Føroya Náttúrugripasavn 41 pp.

Bengtson S-A, Buckland P., Enckell, P.H. and Fosaa A.M. (eds.) 2010. Dorete –her book. *Annales Societatis Scientiarum Faeroensis Supplementum* 52. Fróðskapur. Faroe University Press.

Hannon, G., Arge, S.V., Fosaa, A.M., Mahler, D.L., Olsen B., Bradshaw, R.H.W. 2009. Faroe Islands. In: Gillespie, G. and Clague D. A. (eds) 2009. Encyclopedia of Islands. University of California Press.

Fosaa, A.M.2009. Faroese Plants. HNJ's Indispensable Guide to the Faroe Islands.H.N.Jacobsens Bókhandil

Fosaa, A.M. 2009. Færøske planter. HNJ's Ultimate guide til Færøerne. H.N.Jacobsens Bókhandil.

Fosaa, A.M., Olsen E., and William Simonsen. Eiði-2, 2008. Environmental Impact assessment. Føroya Náttúrugripasavn.

Fosaa, A.M. 2008. The vegetation of the Faroe Islands. Proceedings of the Fifth International Workshop. Conservation of Arctic Flora and Fauna (CAFF) Flora Group. Circumboreal vegetation mapping workshop, November 2008,CAFF Technical Report No. 21. September 2010.

Fosaa, A.M., 2008. Vegetation of the Faroe Islands in a changing environment. Proceedings of the Forth International Workshop. Conservation of Arctic Flora and Fauna (CAFF) Flora Group. CAFF Technical Report No. 15. September 2008.

Austrheim, G., Bjarnason, G., Feilberg, J., Fosaa, A.M., Holand, Ø., Høeg, K., Jónsdóttir, I.S., Magnússon, B., Mortensen, L.E., Mysterud, A., Olsen, E., Skonhoft, A., Steinheim, G., Thórhallsdóttir, A.G., and Aasheim, L-J. Sustainable management of sheep grazing in the North-Atlantic region. Report with outlines of presentations given at a workshop in Trondheim on the 15 to 17 Oct 2007.

Fosaa, A.M., Dalsgarð J. and Gaard E. (ed.) 2006. Føroya Náttúra-Lívfrøðiligt margfeldi. Føroya Skúlabókagrunnur.

Bjarnason, G., Fosaa, A.M., Hansen, J & Mortensen, L 2006. Leiðin til burðardygt seyðabit í Føroyum.1-27. Føroya Náttúrugripasavn, Føroya Jarðarráð og Jarðfeingi.

Fosaa, A.M., Gaard, M. og Hansen J. 2005. Reyðlistar. Frágreiðing um reyðlistaflokkning av plantum og fuglum. Føroya Náttúrugripasavn.

Fosaa, A. M. In B. Jonsell (ed.) 2004. Flora Nordica, General Volume. Stockholm.

Fosaa, A.M., Nybakken, L & Oht, M. 2002. Vegetation and environmental relations along the western coast of Spitsbergen. Svalbard., Svalbard University Reports.

Fosaa, A.M. , Hansen, B, & Gaard M. 2002. Soil temperature in the Faroese Mountains. Data report. Faroese Museum of Natural History. Tórshavn Faroe Islands.

Jóhansen, J. 2000. Fosaa, A.M. and Rasmussen, S. (eds.). Føroysk Flora. Føroya Skúlabókagrunnur.

Fosaa, A.M., 2000: Villar plantur í Føroyum- yvirlit -Føroya Náttúrugripasavn

Fosaa, A.M., 2000 Wildflowers in the Faroe Islands/Vilde planter på Færøerne- checklist- Føroya Náttúrugripasavn

Fosaa, A. M. In Lawesson et. al. 2000. A concept for vegetation studies and monitoring in the Nordic countries. Tema Nord 200:517.

Fosaa, A. M. Lichens in: Bruntse, G. 2000. Marine benthic algae and invertebrate communities from the shallow waters, the Faroe Islands. A baseline study.

In Ecosystem Vulnerability to Climatic Change in Greenland and the Faroe Islands no. 97 1997, Danish Environmental Protection Agency.

Popularized papers for the general public

Smaller publications

Fosaa, A.M. 2011. Reyðlig bjargablóma *Silene dioica*. Føroysk frímerki.

Fosaa, A.M. 2011. Litingarsortugras *Geranium sylvaticum*. Føroysk frímerki.

Fosaa, A.M. 2010. Háfallaplantur eru viðbreknar fyri veðurlagsbroytingum. 10-13 *Frøði*

Fosaa A. M. 2009. 2010- Árið har plantu- og djórasløg skulu verjast. 20-26. *Frøði*

Fosaa A.M. Olsen, E. Gaard M., & Simonsen W. 2009. Nýggj vakstrarstøð. 38-39. 2009 *Frøði*

- Fosaa A. M. 2008. Trøllakampar. Føroysk frímerki.
- Fosaa, A. M. 2008 Sóljan. Føroysk frímerki.
- Bloch, D. og Fosaa, A.M. 2007 Lívið í grótgardinum. Føroysk frímerki.
- Fosaa, A.M. 2006 Toftavatn er náttúrufríðað. Grein í Dimmalætting.
- Fosaa, A.M. & Simonsen M.A. 2005. skóna og mosanøvn, *Frøði*
- Fosaa, A.M. 2005 Mølheyggjar friðaðir, *Frøði*.
- Fosaa, A. M. 2004. Vegetation og klima, *Atlantic Review*.
- Fosaa, A. M. 2004 Ein plantufrøðiligur gongutúrur runt um Gróthúsvatn, *Frøði*.
- Fosaa, A. M., 2002 ITEX, *Frøði*.
- Fosaa, A. M. 2001 Højffjeldplanter på Færøerne, *Atlantic Review*.
- Fosaa, A.M. 1997 Heima-ella Bakkahvonn (*Angelica archangelica*), *Frøði*.

TV-programme

- Fosaa; A.M. and Dorete Bloch, fremmand djór og plantur. Speki
- Fosaa, A.M. 2007 Føroyskur vøkstur í einum umhvørvi ið er í broyting. Speki
- Fosaa, A.M. Hentze, Ragnar B. Joensen 2005 Villblómur í Føroyum, Strondin. SVF
- Fosaa, A.M. Hentze, Ragnar B. Joensen 2005 Villblómur í Føroyum, Áir og vøtn. SVF
- Fosaa, A.M. Hentze, Ragnar B. Joensen 2005 Villblómur í Føroyum, Gjáir, bøur og gøtur. SVF
- Fosaa, A.M. Hentze, Ragnar B. Joensen 2005 Villblómur í Føroyum, Lyngheiðar. SVF
- Fosaa, A.M. Hentze, Ragnar B. Joensen 2005 Villblómur í Føroyum,, fjøllini. SVF

Project manager

- 1999-2003 Vegetation zones in relation to climatic parameters in some Faroese mountains
- 2001- present International Tundra Experiment (ITEX) Faroe Islands

2007-2008 Environmental impact assessment in connection with a water power project SEV

2009-present The Global Observation Research Initiative in Alpine Environments (GLORIA) Faroe Islands

Supervisor for students thesis

Bachelor student in biology:

Erla Olsen, Altitudinal changes in mykorrhiza (Faroese University 2000)

Olivia Danielsen, The effect of sheep grazing on mountain vegetation (Faroese University 2008)