# EIRIKUR DANIELSEN

## CONTACT

Fiskaaling
við Áir, FO-430 Hvalvík

(+298) 774756

eirikur@fiskaaling.fo

## EDUCATION

**2011 – 2012** **PGDIP ECOLOGY AND ENVIRONMENTAL SUSTAINABILITY - UNIVERSITY OF ABERDEEN**

**2006 – 2009** **BSC BIOLOGY – UNIVERSITY OF THE FAROE ISLANDS**

## RESEARCH INTERESTS

I have a strong interest in marine ecology, aquaculture and environmental sustainability. My current work focuses on general zooplankton abundance, composition and distribution, in relation to a fish farming site, phytoplankton identification regarding algal bloom monitoring as well as identification of hydrozoans. Knowledge of the impact of aquaculture on zooplankton (and vice versa) as well as general knowledge about near-shore zooplankton in the Faroese fjord system is limited, and needs a lot more attention, considering its importance to a healthy marine ecosystem. I have also been involved with research into planktonic sea lice identification, infection pressure and spatial and temporal distribution in the Faroes, as well as into lumpfish cleaning efficacy as these can eat sea lice off of salmon. Research into phytoplankton is also of great interest and I am involved with identifying phytoplankton species regarding toxic algal blooms affecting farmed fish, as well as identification of hydrozoans as these may also have a negative effect on farmed fish.

## EXPERIENCE

**2012 onwards** **P/F FISKAALING**

I have had many roles at P/F Fiskaaling regarding production (salmon eggs and lumpfish), service to the aquaculture industry, and in research. These include:

Monitored salmon milt motility and fertilized egg quality regarding salmon egg production.

Conducted bioassays regarding sea lice resistance to various chemical solutions used for delousing.

Hatching sea lice eggs where the nauplii and copepodites were used for identification using microscope and stereoscope or for further study.

Planktonic sea lice sample collection and identification, as well as study on sea lice infection pressure and spatial and temporal distribution.

Regular planktonic sea lice count (larvae) at certain Faroese fish farming sites.
Been involved with lumpfish production, as well as study regarding lumpfish health and cleaning efficacy.
Counted sea lice parasites (several stages) infecting salmons at fish farms as part of regular mandatory sea lice count.
Assisted with sediment sample burning and weighing regarding sediment baseline study.
Assisted with zooplankton identification and counting using stereoscope regarding various projects.
Phytoplankton identification regarding monitoring of toxic algal blooms at selected areas in the Faroes. Successfully completed the IOC E-learning Course on Harmful Algal Blooms 2021 organized by the UNESCO/IOC Project Office for IODE and the University of Copenhagen, Dept. of Biology, 30. November 2021.
I have also assisted with measuring fish scales using stereoscope and imagery regarding research into sea trout, as well as counting sea lice larvae and fish scales sampled at fish farms before and after delousing.
Currently working with hydrozoan identification as well.
Co-author of peer reviewed papers and selected reports.

### 2010-2011 FAROE MARINE RESEARCH INSTITUTE

Research Assistant. Fish sample collection onboard research vessel, measured length, weight, sex and maturity of several fish species and took samples to determine age and food content in the stomachs. Identification of zooplankton species using stereoscope.

### 2009-2010 ENVIRONMENT AGENCY OF THE FAROE ISLANDS

Research Assistant. Worked with sample collection regarding study of pollutants in sheep and the soil from the areas they were grazing, as well as pollutants in freshwater fish.

### 1997-2009 EARLIER JOBS

The Faroe Islands Aquarium: Informed visitors about sea creatures
Thor Chaser: Whale survey in the north-Atlantic Ocean (T-Nass)
Pizza 67: Pizza delivery - work during BSc study period
P/F Frants Restorff: Bakery, delivery of baked goods, cleaner
P/F Kollafjord Pelagic: Fish factory
M/TR Næraberg (P/F J.F.K. Seafood): Fishing trawler
P/F Kemilux Industry: Soap factory

# PUBLICATIONS

**PEER REVIEWED:**

Eliasen, K., Danielsen, E., Johannesen, Á., Joensen, LL., Patursson, EJ. (2018)
The cleaning efficacy of lumpfish (*Cyclopterus lumpus* L.) in Faroese salmon (*Salmo salar* L.) farming pens in relation to lumpfish size and seasonality. Aquaculture, 488:61-65

á Norði, G., Simonsen, K., Danielsen, E., Eliasen, K., Mols-Mortensen, A., Christiansen, D. H., Steingrund, P., Galbraiht, M., Patursson, Ø. (2015)
Abundance and distribution of planktonic *Lepeophtheirus salmonis* and *Caligus elongatus* in a fish farming region in the Faroe Islands. Aquacult. Environ. Interact.7: 15-27 doi: 10.3354/aei00134

**SELECTED REPORTS:**

á Norði, G., Danielsen, E. (2020)
Depth distribution of planktonic sea lice stages in a Faroese fjord with salmon farming. Fiskaaling rit 2020 - 15 (In Faroese)

á Norði, G., Danielsen, E. (2019)
Planktonic sea lice stages at Hvannasund norður 16/6 and 21/11-2019. Fiskaaling rit 2019 - 16 (In Faroese)

á Norði, G., Danielsen, E. (2019)
Planktonic sea lice stages at different depths at Sørvágsfirði september 2019. Fiskaaling rit 2019 - 09 (In Faroese)

á Norði, G., Danielsen, E. (2019)
Planktonic sea lice stages at Hvannasund norður 16/6-2019. Fiskaaling rit 2019 - 05 (In Faroese)

á Norði, G., Danielsen, E., Joensen, E. (2018)
Planktonic sea lice stages at Sørvágsfirði 28/8-2017 - 19/3-2018. Fiskaaling rit 2018 - 05 (In Faroese)

á Norði, G., Patursson, Ø., Danielsen, E., Joensen, E., Simonsen, K. (2017)
Planktonic sea lice stages at Sørvágsfirði. Fiskaaling rit 2017 - 07 (In Faroese)

**Danielsen, E. (2013)**
Identification of the free living larval stages of *C. elongatus* and *L. salmonis*. Fiskaaling rit 2013-5

Danielsen, E., á Norði, G., Patursson, Ø., Jacobsen, Á. (2013)
Sampling and identification of pelagic sea lice stages. Fiskaaling rit 2013-3 (In Faroese)