

Short CV – Sigrún Huld Jónasdóttir

Degrees

- Doctor Technices, Technical University of Denmark (2015).
- PhD, Marine Sciences Research Center, State University of New York, Stony Brook, USA (1992).
- MSc, School of Oceanography, University of Washington, Seattle, USA (1986).

Positions

- Senior Researcher, Danish Institute for Fisheries Research (DIFRES)/DTU Aqua, Technical University of Denmark (1998-present).
- Research Associate and Research Scientist, Danish Institute for Fisheries Research (DIFRES) (1994-1998).
- Postdoc, DIFRES (1993-1994).
- Research Associate, Marine Research Institute, Reykjavik (1993).

Research area

Marine lipid ecology. Effects of dietary lipids on a) population growth and b) lipid stoichiometry from zooplankton to fish larvae. Food web dynamics - zooplankton quality for fish larval survival - zooplankton in stock assessment. The physical and biological adaptive drivers of lipid accumulation in zooplankton. Role of zooplankton in carbon sequestration.

Distinctions and awards

NATO research fellowship (1992); Sigma Xi fellowship, Grant in aid of research (1989); NATO research Fellowship (1988).

Memberships of scientific committees, 2011-present

Evaluation committees for section leaders at DTU Aqua (2011); Organizing: Danish Oceanography Conference in Helsingør (2009); Danish representative in the ICES Zooplankton Ecology working group (2005-present).

Review, 2011- present

- Editorial: Associate Editor on *Hydrobiologia* (2009-16), Contributing Editor for Marine Ecology Progress Series (2016-present).
- Regular reviews for European, American and British Research Councils.
- Referee for a large number of international journals including *Limnology and Oceanography*, *Marine Biology*, *Deep-Sea Research*, *Frontiers*, *PlosOne*, *Marine Chemistry*, *Aquaculture*.
- Regular peer-reviewing services for many international scientific journals.
- Evaluation: PhD opponent 13 times in UK, Finland, Norway, Sweden and Spain and frequent opponent on Bachelor & MSc dissertations in DK.

Peer reviewed publications: 49. Books and book chapters: 1. Reports: 1. International conferences: 1.

Advisory tasks, 2011-present

Representative for DTU Aqua Leadership in the Working Environmental Committee (2013-present) and the Local Working Environmental Group (2010-present); Elected member on the Laboratory Safety Group on the research vessel Dana (2010-present); Local Liaison Council for DTU Aqua, Charlottenlund (2015-present).

Educational tasks, 2011-present

- DTU courses: 25310 Biological Oceanography (Contributor); 25325 Aquatic Ecology and Climate Change (Contributor)
- 2 PhD level summer schools on Carbon Cycling in Marine Systems (Iceland, 2011 & 2013); Organized & taught 2 PhD courses in Tanzania BSU progr. Experimental Design and Analysis (2015) Scientific Writing and Communication (2016).

Supervision, 2011-present

PhD students: 1 (Co-supervisor).

Grants, 2011-present

- NordFa Underwater time of flight image acquisition system (UTOFIA) (2015-2018, PI).
- North Atlantic-Arctic coupling in a changing climate: Impacts on ocean circulation, carbon cycling and sea-ice (NAACOS) (2011-2014, PI).
- Arctic plankton in a changing climate (2010-2014).
- European basin-scale analysis, synthesis and integration (EURO-BASIN) (2010-2014).

Research collaboration with stakeholders, 2011-present

Involved in Fishermen-Researcher collaboration (2014-2015).

Five selected publications

Jónasdóttir SH, Visser AW, Richardson K, Heath MR. (2015). A seasonal copepod lipid pump promotes carbon sequestration in the deep North Atlantic. *Proc Nat Acad Sci.*, 112(39), 12122-12126. 10.1073/pnas.1512110112.

Rullyanto A, Jónasdóttir SH, Visser AW. (2015). Advective loss of overwintering *Calanus finmarchicus* from the Faroe–Shetland Channel *Deep-Sea Res. I.*, 98, 76-82. 10.1016/j.dsr.2014.12.009.

Jónasdóttir SH, Dutz J, Koski M, Yebra L, Vidaudez C, Jakobsen HH, Pohnert, G, Nejstgaard J. (2011). Extensive cross disciplinary analysis of biological and chemical control of *Calanus finmarchicus* reproduction during an aldehyde forming diatom bloom in mesocosms. *Marine Biology*, 158(9), 1943-1963.10.1007/s00227-011-1705-8.

Jónasdóttir SH, Koski M. (2011). Biological processes in the North Sea: comparison of *Calanus helgolandicus* and *Calanus finmarchicus* vertical distribution and production. *J. Plankton. Res.*, 33(1), 85-103 10.1093/plankt/fbq085.

Jónasdóttir SH, Visser AW, Jespersen C. (2009). Assessing food quality in the production and hatching of *Temora longicornis* eggs. *Mar Ecol Prog Ser*, 382, 139-150. 10.3354/meps07985.