

Sigrun Huld Jonasdottir – Short CV

ORCID

0000-0003-4985-0447

Degrees

2015 Dr. Technices - DTU (19 November).

1992 Ph.D. Coastal Oceanography - State University of New York, Stony Brook, NY, USA (18 December)

1986 M.Sc. Oceanography - University of Washington, Seattle, WA, USA. (18 December)

Positions

- Researcher - Marine Research Institute Iceland - 1993- 8 months
- Research Associate and Researcher - Danish Fisheries Research Institute (DIFRES) - 1993-1998
- Senior Researcher - DIFRES and Technical University of Denmark, DTU Aqua - 1998 – current)

Research area

Marine Lipid Ecology, Multiple stressors on marine biota, Effects of climate on Arctic marine systems, Quality of marine food webs, Identification of food web dynamics and life history traits through Fatty Acid Trophic Markers (FATMs), Mesopelagic fish feeding guilds, Use of Zooplankton side stream in fisheries industry, the physical and biological adaptive drivers of lipid accumulation in zooplankton. Role of zooplankton in carbon sequestration. (biomagnification of contaminants in marine food webs)

Distinctions and awards

Professor qualified (DTU) 2023

Memberships of scientific committees (last 5 years)

- 2020 - present Advisory Board for the Norwegian funding agency Tromsø Forskings Stiftelse
- 2003 – 2021 ICES Working Group on Zooplankton Ecology (WGZE)
- 2022- 2025 Advisory Board for the UK NERC project BIOPOL

Publications

Type of publication:	Number
Web of Science publications:	74
Citations:	5690
<i>h</i> -index:	39
Other peer review publications:	
Books:	
Book chapters:	
Reports:	

International conferences (last 5 years)

Type of participation:	Number
Contributions as first author:	5
Invited:	2
Organizing role:	2

Evaluation tasks and reviews (last 5 years)

- 2017- present EU- Expert reviewer – MSCA, and H-2020
- Numerous journal reviews; e.g. Limnology and Oceanography, Journal of Plankton research,
- Guest Editor: Frontiers Marine science (2022)
- Guest Editor: Deep-Sea Research (2020)
- Contributing Editor: Marine Ecology Progress Series (2016- 2024)

Educational tasks at academical level (last 5 years)

- 25202 Fisheries Engineer I: Describe exploitation and management of fish. Part 1, - 5 ECTS: Havmiljø (Marine Ecosystems) – Course - Contributor
- 25204 Fisheries Engineer III: Improvement of exploitation and management of selected fish and shellfish. Part 1. - 5 ECTS: Havmiljø og Oceanografi (Marine Ecosystems and Oceanography) – Responsible
- 25811, 25812, 25813 (1.5 ECTS each) Current topics in Aquatic sciences (lead)
- 25801 Aquatic Science and Living Resources – Research Communication (co-lead) (2015 - 2025).

Contributing to other courses – fixed every year:

- 25619 Funding your research career
- 25310 Biological Oceanography

Special courses Masters level (last 5 yrs):

- 2025 Frederik Lenk: Disentangling lipid profiles of marine organisms (5 ECTS)
- 2022 Ceelin Aila Andersen: Lipid markers in meso- and bathypelagic copepods (10 ECTS)
- 2020 Enrique García-Argudo: Mesopelagic fish and zooplankton in Icelandic waters (5 ECTS)
- 2020 Maria Papadimitraki: Feeding ecology of mesopelagic fish: a literature review and comparative analysis of methodological approaches (5 ECTS)

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Supervision (ongoing or finished in the last 5 years)

	Principal/main supervisor	Co-supervisor
Other (MSc etc.)	4	Number
PhD:	0	3
Postdoc:	1	N/A

Grants (competitive) (ongoing or finished within last 5 years)

- Si-4_EC0 (2025-2028). PI. Silicate – gyre dynamics: consequences for north Atlantic ecological productivity Faroese Research Council - MARiNAO
- PHYTO-TRAITS (2025-2028) Coordinator: Morphological and nutritional traits of phytoplankton blooms in the Faroe Islands, Greenland and Ocean-Shelf systems of the North Atlantic Faroese Research Council - MARiNAO
- ECOFISH (2024-2028) Coordinator: Enhancing the Tanzanian Blue Economy through sustainable fisheries and a healthy marine environment. Ministry of Foreign Affairs of Denmark, Danida Fellowship Centre.
- SEA-Quester (2024-2028) Co-Coordinator: Blue Carbon production, export and sequestration in emerging polar ecosystems - Horizon Europe 2023.
- BioEcoOcean (2024-2028) PI: Co-Creating Transformative Pathways to Biological and Ecosystem Ocean Observations - Horizon Europe 2023.
- OceanICU (2022-2027) PI: Improving Carbon Understanding. Horizon Europe 2022.
- ROCS (2020-2025) PI: Queen Margrethe's and Vigdís Finnbogadóttir's Interdisciplinary Research Centre on Ocean, Climate, and Society, Carlsberg Foundation.
- COPS: (2022-2025) Coordinator: Dynamics of Calanus species linked to Oceanographic processes, Predators and carbon Sequestration. Faroese Research Council - MARiNAO
- HOTSPOT 2 (2021-2024): PI: Hotspot of multiple stressors: Research-based management in the Gulf of Guinea Ministry of Foreign Affairs of Denmark, Danida Fellowship Centre
- ECOTIP (2020-2024) Co-ordinator: Arctic biodiversity change and its consequences: Assessing, monitoring and predicting the effects of ecosystem tipping cascades on marine ecosystem services and dependent human systems European Union's Horizon 2020
- SUMMER (2019-2024) PI: Sustainable management of mesopelagic resources European Union's Horizon 2020
- BIOZOOSTAIN (2020-2023) Coordinator: Sustainable utilization of zooplankton as by-products BlueBio Cofund Eranet
- HOTSPOT (2018-2020) PI: Research-based management of Gulf of Guinea Ministry of Foreign Affairs of Denmark, Danida Fellowship Centre

Selected publications

1. Strange, Markus Varlund, Jonasdóttir S.H., Nielsen T.G. 2025. The autumn plankton community of an Arctic fjord: impact of temperature and salinity on the functional response of two copepod species" to watch. Journal of Plankton Research 47, no 3 <https://doi.org/10.1093/plankt/fbaf014>
2. Maar, K., Papadimitraki, M., Ruiz, L.H., Broughton, R. and **Jónasdóttir, S.H.**, 2023. Lipids in meso-and bathypelagic fishes from the North Atlantic Ocean: dietary inputs suggested from fatty acid trophic markers. Marine Ecology Progress Series, 717, pp.127-141. <https://doi.org/10.3354/meps14366>
3. Pinti, J., **Jónasdóttir, S.H.**, Record, N.R. and Visser, A.W., 2023. The global contribution of seasonally migrating copepods to the biological carbon pump. Limnology and Oceanography, 68(5), pp.1147-1160 <https://doi.org/10.1002/lno.12335>
4. **Jónasdóttir, S.H.**, 2019. Fatty Acid Profiles and Production in Marine Phytoplankton. Marine Drugs, 17(3), p.151. <https://doi.org/10.3390/md17030151>
5. **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: 12122-12126. <https://doi.org/10.1073/pnas.1512110112> *In the top 5% of all research outputs scored by Altmetric*