

## Henrik Österblom

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### Research interests

My research focus on ocean governance, novel technologies, human cooperation, and the potential for corporations to engage in biosphere stewardship. My main contribution is the identification of keystone actors, and the establishment of the SeaBOS initiative, in which scientists are co-producing knowledge and action with keystone actors for a healthy ocean.

### Education

2006: PhD, Stockholm University. Marine Ecology: “Complexity and Change in a Simple Food Web - Studies in the Baltic Sea (FAO Area 27.IIIId)”

1998: MSc, Uppsala University. Behavior Ecology: “Copulation and feeding behavior of the common guillemot *Uria aalge* in the Baltic Sea”

### Current appointment

- Program Director, Beijer Institute of Ecological Economics 2022-
- Science Director, Stockholm Resilience Centre (SRC) 2019-
- Professor of Environmental Science, *Stockholm University* 2018

### Professional experience

- Visiting professor, *Tokyo University* 2021 (Sept-Dec)
- Visiting scientist, *Tokyo University* 2017 (March-April)
- Senior Lecturer, *Stockholm University* 2014-2018
- Deputy Science Director, *SRC* 2013- 2019
- Associate Senior Lecturer, *Stockholm University* 2011-2014
- Post Doc, *U. Tasmania* and *U. British Columbia* 2009-2010
- Science-Policy Coordinator, *Baltic Nest Institute* 2007-2011
- Special Advisor, *Swedish Ministry of Environment* 2003–2007
- Working member, *Commission on the Marine Environment* 2002–2003
- 1<sup>st</sup> Assistant, *Swedish Museum of Natural History* 2000-2002

### Current projects

- The Keystone Dialogues and the SeaBOS initiative (2016-2022)
- Improving the performance of high seas fisheries management (2020-2022)
- Sustainability science, dialogues and novel technologies for understanding and managing ocean ecosystem tradeoffs (2020-2025)

### Research Grants

A total of >10 M USD as Principal investigator, and >20 M USD as co-applicant

### Awards

- 2017 Sweden Impact Award: *High-level dialogue with private sector “keystone actors” in the seafood industry*. AESIS.
- 2011 The Askö Young Scientist Award, Stockholm University

### **Editorial responsibilities**

- *PLOS ONE* (2015-2022), *PNAS* (2021), *Ecology and Society* (2009-2021), *Marine Policy* (2015-2018), *Journal of Applied Ecology* (2014-2016)

### **Scientific leadership**

- Expert Group, High Level Panel for a Sustainable Ocean Economy (2018-2020)
- IMBER (Integrated Marine Biosphere Research) Human Dimensions Working Group (2017-)
- International advisory board of SARAS<sup>2</sup> - South American Institute for Resilience and Sustainability Studies, Uruguay (2016-)
- Ocean Knowledge Action Network (KAN), Future Earth (2017-2019)
- The Nereus Program – Predicting the Future Oceans (2010-2019)
- Council for the Swedish Marine Institute (2010-2011)
- Board of the Marine Science Center, Stockholm University (2009-2012)

### **Public engagement in field of expertise**

- Chairman, SeaBOS Fundraising Foundation (2019- )
- Board Member, Race for the Baltic Fundraising Foundation (2018- )

### **10 Selected scientific contributions**

- Österblom H, Bebbington J, Blasiak R, Sobkowiak M, Folke C. (2022) Transnational Corporations, Biosphere Stewardship, and Sustainable Futures *Annual Review of Environment and Resources* (in press)
- Österblom H, C. Folke J, Rocha J, Bebbington, R. Blasiak, J.-B. Jouffray, E. R. Selig, C.C.C. Wabnitz, F. Bengtsson, B. Crona, R. Gupta, P. J. G. Henriksson, K.A. Johansson, A. Merrie, S. Nakayama, G. Ortuño Crespo, J. Rockström, L. Schultz, M. Sobkowiak, P. Sjøgaard Jørgensen, J. Spijkers, M. Troell, P. Villarubia-Gómez, J. Lubchenco (2022) Scientific mobilization of keystone actors for biosphere stewardship. *Scientific Reports* 12: 3802
- Österblom H, Paasche, Ø. (2021) Earth Altruism. *One Earth* 4 (10): 1386-1397
- Österblom H, Jouffray J-B, Folke C, Rockström J. (2017) Emergence of a global science-business initiative for ocean stewardship. *Proceedings of the National Academy of Sciences, USA* 114: 9038-9043
- Österblom H, Crona B, Folke C, Nyström M, Troell M. (2017) Marine ecosystem science on an intertwined planet. *Ecosystems* 20: 54-61
- Österblom, H, Jouffray J-B, Folke C., Crona, B., Merrie, A., Troell, M. (2015) Transnational Corporations as 'Keystone Actors' in Marine Ecosystems *PLOS ONE* 10(5): e0127533.
- Österblom H, Sumaila UR. (2011) Toothfish crises, actor diversity and the emergence of compliance mechanisms in the Southern Ocean. *Global Environmental Change* 21: 972-982
- Österblom H, Sumaila UR, Bodin Ö, Hentati Sundberg J, Press AJ. (2010) Adapting to Regional Enforcement: Fishing Down the Governance Index. *PLoS ONE* 5(9): e12832.
- Österblom H, Hansson S et al. (2007) Human-Induced Trophic Cascades and Ecological Regime Shifts in the Baltic Sea, *Ecosystems* 10, 877-889
- Österblom H, Casini M, Olsson O, Bignert A. (2006) Fish, Seabirds and Trophic Cascades in the Baltic Sea, *Marine Ecology-Progress Series*, 323: 233-238

### **Supervision of PhD students (and their current positions)**

- Frida Bengtsson (2020-
- Matilda Petersson (2015-2020) post doc in Wageningen, the Netherlands
- Jessica Spijkers (2015-2020), post doc CSIRO, Australia
- Jean-Baptiste Jouffray (2014-2020), post doc Stockholm University
- Kiril Orach (2013-2018), Researcher at Stockholm Resilience Centre (2019).
- Jonas Hentati-Sundberg (2011-2015) Associate Senior Lecturer at Swedish Agricultural University (2019).
- Andrew Merrie (2011-2016) Communications officer SRC (2019).
- Matilda Valman (2009-2014) Coordinator at Swedish Water Authority (2019).
- Martina Kadin (2009-2013) Post doc at University of Washington (2019).

### **Mentoring of postdocs**

- Dr Guillermo Otuño Crespo (2020- )
- Dr Robert Blasiak (2016-2020). Researcher Stockholm Resilience Centre
- Dr Lisa Dellmuth (2014-2016). Associate Professor, Stockholm University.
- Dr Marc Metian (2011-2013). Researcher, International Atomic Energy Agency
- Dr Wijnand Boonstra (2009-2014). Lecturer, Uppsala University (2019).
- Dr Simon Birnbaum (2009-2014). Associate Professor, Södertörn University (2019).