

Relevant scientific publications the “keystone actors” concept

Blue papers for the High Level Panel for a Sustainable Ocean Economy

1. Swilling, M., Ruckelshaus, M., Brodie Rudolph, T. Allison, E.H., Gelcich, S., Mbatha, P., Österblom, H. 2020. The Ocean Transition: What to Learn from System Transitions. Washington, DC: World Resources Institute. www.oceanpanel.org/blue-papers/ocean-transition-what-learn-system-transitions
2. Österblom, H., Wabnitz, C.C.C. Tladi, D., Allison, E.H., Arnaud-Haond, S., Bebbington, J., Bennett, N., Blasiak, N., Boonstra, W. Choudhury, A., Cisneros-Montemayor, A., Daw, A., Fabinyi, M., Franz, N., Harden-Davies, H., Kleiber, D., Lopes, P., McDougall, C., Resosudarmo, B.P. Selim, S.A. 2020 Towards Ocean Equity. Washington, DC: World Resources Institute. Available online at www.oceanpanel.org/blue-papers/how-distribute-benefits-ocean-equitably.
3. Blasiak, R., R. Wynberg, K. Grorud-Colvert, S. Thambisetty, et al. 2020. *The Ocean Genome: Conservation and the Fair, Equitable and Sustainable Use of Marine Genetic Resources*. Washington, DC: World Resources Institute.
4. Sumaila, U.R., M. Walsh, K. Hoareau, A. Cox, et al. 2020. *Ocean Finance: Financing the Transition to a Sustainable Ocean Economy*. Washington, DC: World Resources Institute. www.oceanpanel.org/blue-papers/ocean-finance-financing-transition-sustainable-ocean-economy.

Papers published or in press

1. Viridin, J., Vegh, T., Jouffray, J.B., Blasiak, R., Mason, S., Österblom, H., Vermeer, D., Werner, N. (2021). The Oceans 100: Transnational Corporations in the Ocean Economy. *Science Advances*
2. Carmine, G., Mayorga, J., Miller, N.A., Park, J., Halpin, P.N., Ortuño Crespo, G., Österblom, H., Sala, E., Jacquet, J. (2020) Who is the high seas fishing industry? *One Earth*
3. Hileman, J., Kallstenius, I., Häyhä, T., Palm, C., Cornell, S. (2020) Keystone actors do not act alone: A business ecosystem perspective on sustainability in the global clothing industry. *PLOS ONE* 15(10): e0241453.

4. Österblom, H., Cvitanovic, C., van Putten, I., Addison, P., Blasiak, P., Jouffray, J.-B., Bebbington, J., Hall, J., Ison, S., LeBris, A., Mynott, S., Reid, D., Sugimoto, A. (2020) Science-industry collaboration – sideways or highways to ocean sustainability? *One Earth* 3: 79-88.
5. Brodie Rudolph, T., Swilling, M., Ruckelshaus, M. Allison, E.H., Österblom, H., Gelcich, H., Mbatha, P. (2020) A transition to sustainable ocean governance. *Nature Communications* 11: 3600
6. Österblom, H., Bebbington, J., Folke, C., Blasiak, R., Crona, B., Henriksson, P., Jouffray, J.-B. Merrie, A., Rockström, J., Schultz, L., Selig, E., Spijkers, J., Troell, M., Wabnitz, C. (2020) 海洋管理に向けた水産事業 (SeaBOS) の取り組み –発足の経緯と初期成果 [The Seafood Business for Ocean Stewardship (SeaBOS) initiative : Origin, Development and First Results] *Environmental Information Science* 49, 72-82
7. Folke, C., Österblom, H., Jouffray, J.-B., Lambin, E., Scheffer, M., Adger, N.W., Crona, B., Nyström, M, Levin, S., Carpenter, S.R., Anderies, J., Chapin III, S., Crépin, A.-S., Dauriach, A., Galaz, V., Gordon, L., Kautsky, N. Walker, B., Watson, J., Wilen, J., de Zeeuw, A. (2020) An invitation for more research on transnational corporations and the biosphere *Nature Ecology and Evolution* (response)
8. Jouffray, J.-B, Blasiak, R., Norström, A.V., Österblom, H., Nyström, M. (2020) The Blue Acceleration: The Trajectory of Human expansion into the ocean. *One Earth* 2 (1) 43-54.
9. Norström, A.V., Cvitanovic, C., Löf, M.F., West, S., Wyborn, C., Balvanera, P., Bednarek, A.T., Bennett, E.M., Biggs, R., de Bremond, A., Campbell, B.M., Canadell, J. G., Carpengter, S.R., Folke, C., Fulton, E.A., Gaffney, O., Gelcich, S., Jouffray, J.-B., Leach, M., LeTissier, M., Martín-López, B., Loutre, M.-F., Meadow, A.M., Nagendra, H., Payne, D., Peterson, G., Reyers, B., Scholes, B., Speranza, C.I., Spierenburg, M., Stafford-Smith, M., Tengö, M., van der Hel, S., van Putten, I., Österblom, H. (2020) Principles for knowledge co-production in sustainability research. *Nature Sustainability* 1:9
10. Blasiak, R., Jouffray, J.B., Wabnitz, C.C. and Österblom, H., 2019. Scientists should disclose origin in marine gene patents. *Trends in ecology & evolution*, 34(5), pp.392-395.
11. Nyström, M., Jouffray, J.-B., Norström, A.V., Crona, B., Sögaard Jörgensen, P., Carpenter, S.R., Bodin, Ö., Galaz, V., Folke, C. (2019). Anatomy and resilience of the global production ecosystem. *Nature* **575**, 98-108, doi:10.1038/s41586-019-1712-3 (2019).
12. Jouffray, J.-B., Crona, B., Wassenius, W., Bebbington, J., Scholtens, B. (2019) Leverage points in the financial sector for seafood sustainability. *Science Advances* 5: 10, eaxx3324

13. Bebbington, J., Österblom, H., Crona, B. Jouffray, J.-B., Larrinaga, C., Russell, S., Scholtens, B. (2019) Accounting and Accountability in the Anthropocene *Accounting, Organizations and Society*. <https://doi.org/10.1108/AAAJ-11-2018-3745>
14. Folke, C., Österblom, H., Jouffray, J.-B., Lambin, E., Scheffer, M., Adger, N.W., Crona, B., Nyström, M, Levin, S., Carpenter, S.R., Anderies, J., Chapin III, S., Crépin, A.-S., Dauriach, A., Galaz, V., Gordon, L., Kautsky, N. Walker, B., Watson, J., Wilen, J., de Zeeuw, A. (2019) Transnational corporation and the challenge of biosphere stewardship. *Nature Ecology and Evolution* 3: 1396-1403
15. Blasiak, R., Jouffray, J.-B., Wabnitz, C.C.C., Österblom, H. (2019) Scientists should disclose origin in marine gene patents. *Trends in Ecology and Evolution* 5: 392-395 <https://doi.org/10.1016/j.tree.2019.02.004>
16. Galaz, V., Crona, B., Dauriach, A., Scholtens, B., Steffen, W. (2018) Exploring the links between financial actors and non-linear changes in the climate system. *Global Environmental Change* 53: 296-302
17. Galaz, V., Crona, B., Dauriach, A., Jouffray, J.-B., Österblom, H., Fichtner, J. (2018) Tax havens and global environmental degradation. *Nature Ecology and Evolution* 2: 1352-1357
18. Blasiak, R., Jouffray, J.-B., Wabnitz, C.C.C., Sundström, E., Österblom, H. (2018). Corporate control and global governance of marine genetic resources. *Science Advances* 4 (6): eaar5237
19. 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
20. Österblom, H. (2017). Reimagining ocean governance using the keystone species concept. *Nature Ecology & Evolution* 1: 1033 doi:10.1038/s41559-017-0133
21. Österblom, H., Jouffray, J.-B., Spijkers, J. (2016) Where and how to prioritize fishery reform? *Proceedings of the National Academy of Sciences, USA* www.pnas.org/cgi/doi/10.1073/pnas.1605723113
22. Österblom, H., Jouffray, J.B., Folke, C., Crona, B., Merrie, A., Troell, M., Rockström, J. (2015) Transnational Corporations as 'Keystone Actors' in Marine Ecosystems *PLOS ONE* 10(5): e0127533.