**In review**

[44] Titus M and **Watson JR**. Critical Speeding Up as an Early Warning Signal of Stochastic Regime Shifts. In review at Theoretical Ecology. [Complex Systems / Ecology]

[43] **Watson JR** and Woodill JA. Anticipating Illegal Maritime Activities from Anomalous Multiscale Fleet Behavior. In review at Conservation Letters. [Complex Systems / Fisheries]

[42] **Watson JR**, Gelbaum Z, Titus M, Zoch M, Wrathall D. Manifold Learning of the Dominant Modes of Human Mobility. In review at PeerJ Computer Science. [Complex Systems]

[41] Siegel DA, **Watson JR**, Simons RD, Mitarai S & McWilliams JC. Characterizing Particle Transit Time Metrics in a Coastal Ocean Network. In review at the Journal of Geophysical Research. [Oceanography]

[40] Burgess MG, Carrella E, Drexler M, Axtell RL, Bailey RM, **Watson JR**, Ananthanaryanan A, Cabral RB, Clemence M, Costello C, Dorsett C, Gaines SD, Klein ES, Koralus P, Leonard G, Levin SA, Little LR, Lynham J, Madsen JK, Merkl A, Owashi B, Saul SE, van Putten IE, Wilcox S. Opportunities for agent-based modeling in fisheries social science. In review at Fish and Fisheries. [Fisheries]

**2019**

[39] Petrik CM, Stock CA, Andersen KH, van Denderen PD, **Watson JR**. Bottom-up drivers of global patterns of demersal, forage, and pelagic fishes. Progress in Oceanography. 2019 Jun 17:102124. [Oceanography]

[38] Folke C, Österblom H, Jouffray JB, Lambin EF, Adger WN, Scheffer M, Crona BI, Nyström M, Levin SA, Carpenter SR, Anderies JM, Chapin S, Crépin, A-S, Dauriach A, Galaz V, Gordon L, Kautsky N, Walker BH, **Watson JR**, Wilen J, de Zeeuw A. Transnational corporations and the challenge of biosphere stewardship. Nature ecology & evolution. 2019 Sep 16:1-8. [Economics / Fisheries]

[37] Burgess MG, Carrella E, Drexler M, Axtell RL, Bailey RM, **Watson JR**, Cabral RB, Clemence M, Costello C, Dorsett C, Gaines SD, Klein ES, Koralus P, Leonard G, Levin SA, Little LR, Lynham J, Madsen JK, Merkl A, Owashi B, Saul SE, van Putten IE, Wilcox S. Opportunities for agent-based modeling in fisheries social science.SocArXiv, DOI: 10.31235/osf.io/gzhm5

[36] Titus M, Gelbaum Z, **Watson JR**. Critical Speeding up as an early warning signal of regime switching. ArXiv:1901.08084v1 [Complex Systems]

[35] Gelbaum Z, Titus M, **Watson JR**. Multi-Scale Analysis on Complex Networks using Hermitian Graph Wavelets. ArXiv:1901.07051v1 [Complex Systems]

[34] McManus LC, **Watson JR**, Vasconcelos VV, & Levin SA. Stability and recovery of coral-algae systems: the importance of recruitment seasonality and grazing influence. Theoretical Ecology, https://doi.org/10.1007/s12080-018-0388-x. [Ecology]

**2018**

[33] Elsler L, Drohan S, Schlueter M, **Watson JR**, Levin SA. Local, Global, Multi-level: Market Structure and Multi-species Fishery Dynamics. Ecological Economics, 156, 85-195. [Economics / Fisheries]

[32] **Watson JR**, Amerin F, Klinger D, Belton B. Resilience through Risk Management: Cooperative Weather Insurance in Small-holder Aquaculture Systems. Heliyon 4 (2018) e00799. [Economics]

[31] Tilman AR, Levin SA & **Watson JR**. Revenue-sharing clubs provide economic insurance as well as incentives for using common-pool resources sustainably. Journal of Theoretical Biology, 454, 205-214. [Economics]

[30] Villarino E., **Watson JR** et al. Large-scale ocean connectivity and planktonic body size. Nature Communications 2018, 9 (142) doi:10.1038/s41467-017-02535-8. [Oceanography]

[29] +Monk, C.T., +Barbier, M., +Romanczuk, P., +**Watson JR**, Alos, J., Nakayama, S., Rubenstein, D.I., Levin, S.A. and Arlinghaus, R. How ecology shapes exploitation: a framework to predict the behavioural response of human and animal foragers along exploration-exploitation trade-offs. Ecology Letters, 21, 6, 779-793. [Ecology]

[28] **Watson JR**, Fuller EF, Castruccio F, Samhouri J. Fishermen Follow Fine-scale Physical Ocean Features for Finance. Frontiers in Marine Science, 5, 46, doi: 10.3389/fmars.2018.00046. [Ecology]

[27] Thompson D, Kleypas J, Castruccio F, Curchitser E, Pinsky ML, Jonsson B, **Watson JR**. Variability in physical barriers to coral larval dispersal: do currents shape biodiversity? Progress in Oceanography, 165, 110-122. [Oceanography]

[26] Tittensor DP, et al. (including **Watson JR**) A protocol for the intercomparison of marine fishery and ecosystem models: FishMIP v1.0. Geoscientific Model Development, 11, 1421-1442. [Oceanography]

[25] Spijkers J, Morrison TH, Blasiak R, Cumming GS, Osborne M, **Watson JR**, Osterblom H. Marine fisheries and future ocean conflict. Fish and Fisheries, doi.org/10.1111/faf.12291. [Fisheries]

[24] Klinger D, Eikeset AM, Davidsdottir B, Winter A-M & **Watson JR**. The mechanics of blue growth: Management of oceanic natural resource use with multiple, interacting sectors. Marine Policy 87 (2018): 356-362. [Economics]

**2017**

[23] Klinger D, Levin SA & **Watson JR**. The Growth of Finfish Globally in Open Ocean Aquaculture under Climate Change. Proc. Roy. Soc. B. 284: 20170834. [Economics / Ecology]

[22] Pena TS, **Watson JR**, Gonzalez-Guzman LI, Keitt TG. Step-wise drops in modularity and the fragmentation of exploited marine metapopulations. Landscape Ecology, DOI 10.1007/s10980-017-0532-9. [Ecology]

[21] Hidalgo M, Kaplan DM, Kerr LA, **Watson JR**, Paris CB, Browman HI. Advancing the link between ocean connectivity, ecological function and management challenges. ICES Journal of Marine Science. 2017 Jul 1;74(6):1702-7. [Oceanography / Ecology]

[20] Fuller EF, Samhouri J, Stoll J, Levin SA & **Watson JR**. Characterizing Fisheries Connectivity in Marine Social-Ecological Systems. ICES Journal of Marine Science. DOI:10.1093/icesjms/fsx128. [Fisheries]

[19] Klein ES, Barbier M & **Watson JR**. The Dual Impact of Ecology and Management on the Social Incentives in Marine Systems. Proceedings of the Royal Society: Open Science. 4: 170740. http://dx.doi.org/10.1098/rsos.170740. [Economics]

**2016**

[18] +Jonnson B. & +**Watson JR** The Timescales of Global Surface-Ocean Connectivity. Nature Communications, 2016, 7, 1-6. [Oceanography]

[17] Tilman, AR & Watson, JR & Levin, SA. Maintaining cooperation in social-ecological systems: Effective bottom-up management often requires sub-optimal resource use. Theoretical Ecology, 2016, doi:10.1007/s12080-016-0318-8. [Economics / Ecology]

[16] +Barbier M and +**Watson JR**. The Spatial Dynamics of Predators and the Benefits and Costs of Information Sharing, PLoS Computational Biology, 2016. ∗co-lead author. [Ecology]

[15] Kleypas JA, Thompson DM, Castruccio FS, Curchitser EN, Pinsky M, & **Watson JR**, Larval connectivity across temperature gradients, and its potential effect on heat tolerance in coral populations. Global Change Biology, DOI: 10.1111/gcb.13347. [Oceanography]