

Selected Publications: D. Zeller

Articles in refereed journals:

- McCrea-Strub, A., **Zeller**, D., Sumaila, U.R., Swartz, W., Kleisner, K., Watson, R. and Pauly, D. (in press) Oil and fisheries in the Gulf of Mexico. *Ocean and Coastal Law Journal*.
- Le Manach, F., Gough, C., Harris, A., Humber, F., Harper, S. and **Zeller**, D. 2012. Unreported fishing, hungry people and political turmoil: the recipe for a food security crisis in Madagascar? *Marine Policy* 36:218-225.
- McCrea-Strub, A., Kleisner, K., Sumaila, U.R., Swartz, W., Watson, R., **Zeller**, D. and Pauly, D. (2011) Potential Impact of the Deepwater Horizon Oil Spill on Commercial Fisheries in the Gulf of Mexico. *Fisheries* 36:332-336
- Zeller**, D., Booth, S., Pakhomov, E., Swartz, W. and Pauly, D. 2011. Arctic fisheries catches in Russia, USA and Canada: Baselines for neglected ecosystems. *Polar Biology* 34(7):955-973.
- McCrea-Strub, A., **Zeller**, D., Sumaila, U.R., Nelson, J., Balmford, A. and Pauly, D. 2011. Understanding the cost of establishing marine protected areas. *Marine Policy* 35: 1-9.
- Zeller**, D., Rossing, P., Harper, S., Persson, L., Booth, S. and Pauly, D. 2011. The Baltic Sea: estimates of total fisheries removals 1950-2007. *Fisheries Research* 108: 356-363.
- Anticamara, J.A., **Zeller**, D. and Vincent, A.C.J. 2010. Spatial and temporal variation of abundance, biomass, and diversity within marine reserves in the Philippines. *Diversity and Distributions* 16: 529-536.
- Jacquet, J.L., Fox, H., Motta, H., Ngusaru, A. and **Zeller**, D. 2010. Few data but many fish: Marine small-scale fisheries catches for Mozambique and Tanzania. *African Journal of Marine Science* 32(2):197-206
- Jacquet, J.L., **Zeller**, D. and Pauly, D. 2010. Counting fish: A typology for fisheries catch data. *Journal of Integrative Environmental Sciences* 7(2):135-144
- Wielgus, J., **Zeller**, D., Caicedo-Herrera, D. and Sumaila, U.R. 2010. Estimation of fisheries removals and primary economic impact of the small-scale and industrial marine fisheries in Colombia. *Marine Policy* 34:506-513.
- Cheung, W.L., Lam, V., Sarmiento, J., Kearney, K., Watson, R., Zeller, D. and Pauly, D. 2010. Large-scale redistribution of maximum fisheries catch potential in the global ocean under climate change. *Global Change Biology* 16:24-35.
- Mora, C., Myers, R.A., Coll, M., Libralato, S., Pitcher, T.J., Sumaila, R.U., **Zeller**, D., Watson, R., Gaston, K.J. and Worm, B. 2009. Management effectiveness of the world's marine fisheries. *PLoS Biology* 7(6): 1-11.
- Worm, B., Hilborn, R., Baum, J.K., Branch, T., Collie, J.S., Costello, C., Fogarty, M.J., Fulton, E.A., Hutchings, J.A., Jennings, S., Jensen, O.P., Lotze, H.K., Mace, P.M., McClanahan, T.R., Minto, C., Palumbi, S.R., Parma, A.M., Ricard, D., Rosenberg, A.A., Watson, R. and **Zeller**, D. 2009. Rebuilding global fisheries. *Science* 325: 578-585.
- Christensen, V., Walters, C., Ahrens, R., Alder, J., Buszowski, J., Christensen, L., Cheung, W.L., Dunne, J., Froese, R., Karpouzi, V., Kastner, K., Kearney, K., Lai, S., Lam, V., Palomares, D., Peters-Mason, A., Piroddi, C., Sarmiento, J.L., Steenbeek, J., Sumaila, R.U., Watson, R., **Zeller**, D. and Pauly, D. 2009. Database-driven models of the world's large marine ecosystems. *Ecological Modelling* 220:1984-1996.
- Jacquet, J.L., Alava, J.J., Ganapathiraju, P., Henderson, S. and **Zeller**, D. 2008. In hot soup: sharks captured in Ecuador's waters. *Environmental Sciences* 5(4):269-283.
- Zeller**, D., Darcy, M., Booth, S., Lowe, M.K. and Martell, S.J. 2008. What about recreational catch? Potential impact on stock assessment for Hawaii's bottomfish fisheries. *Fisheries Research* 91:88-97
- Sumaila, U.R., Khan, A., Watson, R., Munro, G., **Zeller**, D., Baron, N. and Pauly, D. 2007. The World Trade Organization and global fisheries sustainability. *Fisheries Research* 88:1-4
- Sumaila, U.R., **Zeller**, D., Watson, R., Alder, J. and Pauly, D. 2007. Potential costs and benefits of marine reserves in the high seas. *Marine Ecology Progress Series* 345: 305-310
- Teh, L., **Zeller**, D., Cabanban, A., Teh, L. and Sumaila, U.R. 2007. Seasonality and historic trends in the reef fisheries of Pulau Banggi, Sabah, Malaysia. *Coral Reefs* 26:251-163
- Zeller**, D., Booth, S., Davis, G. and Pauly, D. 2007. Re-estimation of small-scale fisheries catches for U.S. flag island areas in the Western Pacific: The last 50 years. *US Fishery Bulletin* 105(2):266-277
- Zeller**, D., Booth, S. and Pauly, D. 2006. Fisheries contributions to GDP: Underestimating small-scale fisheries in the Pacific. *Marine Resource Economics* 21(4):355-374
- Zeller**, D., Booth, S., Craig, P. and Pauly, D. 2006. Reconstruction of coral reef fisheries catches in American Samoa, 1950 - 2002. *Coral Reefs* 25:144-152
- Zeller**, D. and Pauly, D. 2005. Good news, bad news: Global fisheries discards are declining, but so are total catches. *Fish and Fisheries* 6:156-159

- Booth, S. and **Zeller**, D. 2005. Mercury, food webs and marine mammals: implications of diet and climate change on human health. *Environmental Health Perspectives* 113(5): 521-526
- Zeller**, D., Froese, R. and Pauly, D. 2005. On losing and recovering fisheries and marine science data. *Marine Policy* 29(1):69-73
- Zeller**, D. and Pauly, D. 2004. The future of fisheries: from 'exclusive' resource policy to 'inclusive' public policy. In: H.I. Browman and K.I. Stergiou (eds.) *Perspectives on ecosystem approaches to the management of marine resources*. *Marine Ecology Progress Series* 274:295-303.
- Zeller**, D. and Russ, G.R. 2004. Are fisheries "sustainable"? A counterpoint to Steele and Hoagland. *Fisheries Research* 67(2): 241-245
- Zeller** D. and Reinert J. 2004. Modelling spatial closures and fishing effort restrictions in the Faroe Islands marine ecosystem. *Ecological Modelling* 172: 403-420
- Zeller** D, Stoute, SL, and Russ, GR 2003. The movement of reef fishes across marine reserve boundaries: Effects of manipulating a density gradient. *Marine Ecology Progress Series* 254: 269-280
- Russ, G.R. and **Zeller**, D. 2003. From Mare Liberum to Mare Reservatum. *Marine Policy* 27(1): 75-78
- Christensen, V., Guénette, S., Heymans, J., Walters, C., Watson, R., **Zeller**, D and Pauly, D. 2003. Hundred-year decline of North Atlantic predatory fishes. *Fish and Fisheries* 4:1-24
- Pauly, D., Christensen, V., Guénette, S., Pitcher, T.J., Sumaila, U.R., Walters, C.J., Watson, R. and **Zeller**, D. 2002. Towards sustainability in world fisheries. *Insight Review Article. Nature* 418: 689-695
- Zeller** D. 2002 Tidal current orientation of *Plectropomus leopardus* (Serranidae). *Coral Reefs* 21:183-187
- Alder, J., **Zeller**, D., Pitcher, T.J. and Sumaila, U.R. 2002. A method for evaluating Marine Protected Areas Management. *Coastal Management* 30(2): 121-131
- Zeller** D. and Pauly D. 2001. Visualisation of standardised life-history patterns. *Fish and Fisheries* 2(4): 344-355
- Zeller** D. and Russ G.R. 2000. Population estimates and size structure of *Plectropomus leopardus* (Pisces: Epinephelinae) in relation to no-fishing zones: mark-release-resighting and underwater visual census. *Marine and Freshwater Research* 51: 221-228.
- Zeller** D. 1999. Ultrasonic telemetry: Application in coral reef fisheries research. *Fishery Bulletin US* 97(4):1058-1065
- Zeller** D. and Russ G.R. 1998 Marine reserves: Patterns of adult movement of the coral trout *Plectropomus leopardus* (Serranidae). *Canadian Journal of Fisheries and Aquatic Sciences* 55:917-924
- Zeller** D. 1998 Spawning aggregations: Patterns of movement of the coral trout *Plectropomus leopardus* (Serranidae) as determined by ultrasonic telemetry. *Marine Ecology Progress Series* 162:253-263.
- Zeller** D. 1997 Home range and activity patterns of the coral trout *Plectropomus leopardus* (Serranidae). *Marine Ecology Progress Series* 154:65-77.
- Limpus C.J., **Zeller** D., Kwan D., and MacFarlane W. 1989 Sea-turtle Rookeries in North-western Torres Strait. *Australian Wildlife Research* 16:517-525.
- Zeller** D. 1988. Short-term effects of territoriality of a tropical damselfish and experimental exclusion of large fishes on invertebrates in algal turfs. *Marine Ecology Progress Series* 44:85-93.

Book chapters

- Makaiau, J., Dalzell, P., Dinardo, G., Alexander, C., Fougner, S. and **Zeller**, D. (in press) Ecosystem Science and Planning. In Glazier, E.W., (ed.) *Ecosystem Based Fisheries Management in the western Pacific*. Wiley-Blackwell, Ames.
- Watson, R., Sumaila, R.U. and **Zeller**, D. 2011. How much fish is being extracted from the oceans and what it is worth? Pp. 55-71 In Christensen, V. and MacLean, J., (eds.), *Ecosystem Approaches to Fisheries: A Global Perspective*. Cambridge University Press, Cambridge.
- Christensen, V., Walters, C.J., Ahrens, R., Alder, J., Buszowski, J., Christensen, L.B., Cheung, W.W.L., Dunne, J., Froese, R., Karpouzi, V., Kastner, K., Kearney, K., Lai, S., Lam, V., Palomares, M.L.D., Peters-Mason, A., Piroddi, C., Sarmiento, J.L., Steenbeek, J., Sumaila, R., Watson, R., **Zeller**, D. and Pauly, D. (2010) Database-driven models of the world's large marine ecosystems. p. 74-103 In: Sherman, K. and Adams, S., (eds.), *Sustainable Development of the World's Large Marine Ecosystems during Climate Change: A commemorative volume to advance sustainable development on the occasion of the presentation of the 2010 Gteborg Award*. IUCN, Gland, Switzerland.

- Zeller, D.**, Cheung, W.W.L., Close, C. and Pauly, D. 2009. Trends in global marine fisheries – a critical view. p. 87-107 *In* Wrammer, P., Ackefors, H. and Cullberg, M., (eds.), *Fisheries, sustainability and development*. Royal Swedish Academy of Agriculture and Forestry, Stockholm.
- Pauly, D., Alder, J., Booth, S., Cheung, W.W.L., Close, C., Sumaila, U.R., Tavakolie, A., Swartz, W., Watson, R. and **Zeller, D.** 2008. Fisheries in Large Marine Ecosystems: Descriptions and Diagnoses. pp. 23-40 *In*: Sherman, K. and G. Hempel (eds.). *The UNEP Large Marine Ecosystem Report: a Perspective on Changing Conditions in LMEs of the World's Regional Seas*. UNEP Regional Seas Reports and Studies No. 182, Nairobi.
- Engelman, R., Pauly, D., **Zeller, D.**, Prinn, R.G., Pinnegar, J.K., Polunin, N.V.C. 2008. Climate, people, fisheries and aquatic ecosystems. Pages 1-15 *In* Polunin, N.V.C. (ed.), *Aquatic Ecosystems: Trends and global prospects*. Cambridge University Press, Cambridge.
- Zeller, D.** 2005. From *Mare Liberum* to *Mare Reservarum*: Canada's opportunity for global leadership in ocean resource governance. Pages 1-18 *In* A. Chircop and M. McConnell (eds.) *Ocean Yearbook* Volume 19, University of Chicago Press, Chicago
- Zeller, D.** 2003. Marine Reserves: Time for a Global Perspective. Pages 70-74 *In*: J.P. Beumer, A. Grant and D.C. Smith (eds.). *Aquatic Protected Areas – What works best and how do we know?* University of Queensland Press, St. Lucia, Queensland, Australia
- O'Dor R., Aitken JP, Bolden S., Babcock RC., Seinto S., **Zeller D.** and Jackson G. 2001. Using radio-acoustic positioning and telemetry (RAPT) to define and assess marine protected areas (MPAs). Pages 147-166 *In* J. Sibert and J. Nielsen (eds.) *Electronic Tagging and Tracking in Marine Fisheries*. Kluwer Academic Publishers, Netherlands.

Editorship

- Harper, S. and **Zeller, D.**, (Editors) 2011. Fisheries catch reconstructions: Islands, Part II. Fisheries Centre Research Reports 19(4). Fisheries Centre, University of British Columbia, Vancouver, 145 p.
- Christensen, V., Lai, S., Valls, A., Palomares, M.L.D., **Zeller, D.** and Pauly, D. (Editors) 2011. The State of Biodiversity and Fisheries in Regional Seas. Fisheries Center Research Reports Vol. 19(3), Fisheries Centre, University of British Columbia, 82 pp.
- Christensen, V., Lai, S., Ahrens, R., Valls, A., **Zeller, D.** and Pauly, D. (Editors) 2010. Indicators for Outlook Reports on the State of Marine Biodiversity in Regional Seas. Report to UNEP, Activity SSFA/2010/DEPI/MCEB/003, Nairobi, 113 p.
- Rossing, P., Booth, S. and **Zeller, D.** (Editors) 2010. *Total marine fisheries extractions by country in the Baltic Sea: 1950-present*. Vancouver, Fisheries Centre Research Report 18(1), Fisheries Centre, University of British Columbia, 263 pp.
- Zeller, D.** and Harper, S. (Editors) 2009. Fisheries catch reconstruction: Islands Part I. Fisheries Centre Research Reports 17(5), 104 pp.
- Zeller, D.** and Pauly, D. (Editors) 2007. Reconstruction of marine fisheries catches for key countries and regions (1950-2004). Fisheries Centre Research Reports 15(2), 163 pp.
- Makaiau, J., Dalzell, P., DiNardo, G., Alexander, C., Fougner, S. and **Zeller, D.** (Editors) 2006. Ecosystem Science and Management Planning Workshop: Development of Ecosystem-based Approaches to Marine Resource Management in the Western Pacific Region. Report for the Western Pacific Regional Fishery Management Council, Honolulu, Hawaii, 157 pp.
- Zeller D.**, Booth, S., Mohammed E. and Pauly D. (editors) 2003. From Mexico to Brazil: Central Atlantic fisheries catch trends and ecosystem models. Fisheries Centre Research Reports 11(6), 264 pp.
- Zeller D.**, Watson R. and Pauly D. (Editors) 2001. Fisheries Impacts on North Atlantic Ecosystems: Catches, effort and national/regional data sets. Fisheries Centre Research Reports 9(3), 254 pp