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seismic; zooplankton; marine; ecosystems; impacts

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energy, fisheries, fuel, greenhouse gas emissions, lobster.

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Northern prawn fishery, Banana and tiger prawn, Shrimp trawling, Greenhouse gas emissions, Sustainable seafood,

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### **17. Is Fisheries Production within Large Marine Ecosystems Determined by Bottom-up or Top-Down Forcing?**

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food security; energy price; fuel; fisheries; aquaculture; adaptive capacity; vulnerability

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E. K. Pikitch, J. R. Konstantine, T. E. Essington, C. Santora, D. Pauly, R. Watson, U. R. Sumaila, P. D. Boersma, I. L. Boyd, D. O. Conover, P. Cury, S. S. Heppell, E. D. Houde, M. Mangel, E. Plaganyi-Lloyd, K. Sainsbury, R. S. Steneck, T. M. Geers, N. Gownaris, S. P. Munch, (2014). *Fish and Fisheries* 15, 43-64.

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K. M. Kleisner, C. Longo, M. Coll, B. S. Halpern, D. Hardy, S. K. Katona, F. Le Manach, D. Pauly, A. A. Rosenberg, S. F. Samhuri, C. Scarborough, U. R. Sumaila, R. Watson, D. Zeller, (2013). *AMBIO: a Journal of the Human Environment* 42, 910-992.

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D. Pauly, D. Belhabib, R. Blomeyer, W. Cheung, A. Cisneros-Montemayor, D. Copeland, S. Harper, V. Lam, Y. Mai, F. Le Manach, H. Österblom, K. Mok, L. van der Meer, A. Sanz, S. Shon, U. Sumaila, W. Swartz, R. Watson, Y. Zhai, D. Zeller, (2013). *Fish and Fisheries* 15, 474-488.

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deep-sea; deep-water fisheries; depth of fishing; fishing deeper; global fisheries; coastal

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cross-sectional; transects; global fisheries; coastal; Large Marine Ecosystems; LME; Exclusive Economic Zones: EEZ

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global fisheries; marine; change; history

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fishing effort; fishing intensity; spatial expansion; yield

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T. F. Allnutt, T. R. McClanahan, S. Andréfouët, M. Baker, E. Lagabriele, C. McClennen, A. J. M. Rakotomanjaka, T. F. Tianarisoa, R. Watson, C. Kremen, (2012). *PloS one* 7, e28969.

marine spatial planning; Madagascar; MPA

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#### 41. **The Mediterranean Sea under Siege: Spatial Overlap between Marine Biodiversity, Cumulative Threats and Marine Reserves**

M. Coll, C. Piroddi, C. Albouy, F. Ben Rais Lasram, W. W. L. Cheung, V. Christensen, V. S. Karpouzi, F. Guilhaumon, D. Mouillot, M. Paleczny, M. L. Palomares, J. Steenbeek, P. Trujillo, R. Watson, D. Pauly, (2012). *Global Ecology and Biogeography* 21, 465-480.

cumulative impacts; human threats; marine biodiversity; marine conservation; marine protected areas; MPA; Mediterranean Sea

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E. A. Norse, S. Brooke, W. W. L. Cheung, M. R. Clark, I. Ekeland, R. Froese, K. M. Gjerde, R. L. Haedrich, S. S. Heppell, T. Morato, L. E. Morgan, D. Pauly, R. Sumaila, R. Watson, (2012). *Marine Policy* 36, 307-320.

sustainability; deep-sea fisheries; fisheries collapse; fisheries economics; high seas; global fisheries

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overfishing; fisheries management; depletion; sustainability

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U. R. Sumaila, A. Cisneros-Montemayor, A. Dyck, L. Huang, W. Cheung, J. Jacquet, K. Kleisner, V. Lam, A. McCrea-Strub, W. Swartz, R. Watson, D. Zeller, D. Pauly, (2012). *Canadian Journal Fisheries and Aquatic Sciences* 69, 499-510.

oil spill; marine ecosystems; ecological impact; profit; wages

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price; value; global marine fisheries

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S. C. Anderson, J. M. Flemming, R. Watson, H. K. Lotze, (2011). *PloS one* 6, e14735.

invertebrate; fisheries; global; ecosystem

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fishing effort; global fishing; database; FAO; EU; CCAMLR

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B. B. Collette, K. E. Carpenter, B. A. Polidoro, M. J. Juan-Jordá, A. Boustany, D. J. Die, C. Elfes, W. Fox, J. Graves, L. Harrison, R. McManus, C. V. Minte-Vera, R. Nelson, V. Restrepo, J. Schratwieser, C. Sun, A. Amorim, M. B. Peres, C. Canale, G. Cardenas, S. Chang, W. Chiang, N. Leite, H. Harwell, R. Lessa, F. L. Fredou, H. A. Oxenford, R. Serra, K. Shao, R. Sumaila, S. Wang, R. Watson, E. Yáñez, (2011). *Science* 333, 291-292.

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Mediterranean; biodiversity; hot spots

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## 53. Potential Impact of the Deepwater Horizon Oil Spill on Commercial Fisheries in the Gulf of Mexico

A. Scrub-McCrea, D. Zeller, U. R. Sumaila, W. Swartz, K. Kleisner, R. Watson, D. Pauly, (2011). *Fisheries* 36, 332-336.

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L. Tremblay-Boyer, D. Gascuel, R. Watson, V. Christensen, D. Pauly, (2011). *Marine Ecology Progress Series* 442, 169-185.

ecosystem modelling; biomass; fisheries; marine predators; trophic level; global

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## 55. Aggregate Performance in Managing Marine Ecosystems of 53 Maritime Countries

J. Alder, S. Cullis-Suzuki, V. Karpouzi, K. Kaschner, S. Mondoux, W. Swartz, P. Trujillo, R. Watson, D. Pauly, (2010). *Marine Policy* 34, 468-476.

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T. A. Branch, R. Watson, E. A. Fulton, S. Jennings, C. R. McGilliard, G. T. Pablico, D. Ricard, S. R. Tracey, (2010). *Nature* 468, 431-435.

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climate change; marine; ecosystem modelling; Ecopath

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global; biodiversity; marine

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E. Chassot, S. Bonhommeau, N. K. Dulvy, F. Mélin, R. Watson, D. Gascuel, O. Le Pape, (2010). *Ecology Letters* 13, 495-505.

fisheries; bottom-up; Large Marine Ecosystem; LME; transfer efficiency

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W. W. L. Cheung, V. W. Y. Lam, J. L. Sarmiento, K. Kearney, R. Watson, D. Zeller, D. Pauly, (2010). *Global Change Biology* 16, 24-35.

climate change; global; marine; fisheries; catch redistribution; potential

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M. E. Hunsicker, T. E. Essington, R. Watson, U. R. Sumaila, (2010). *Fish and fisheries* 11, 421-438.

cephalopod; invertebrates; global; marine; fisheries

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### **62. Seamount Fisheries: Do They Have a Future?**

T. N. J. Pitcher, M. R. Clark, T. Morato, R. Watson, (2010). *Oceanography* 23, 134.

seamount; fisheries; trawling

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fishing; harvest; management; business; trophic level

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value loss; protein; nourishment; global

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U. R. Sumaila, A. S. Khan, A. J. Dyck, R. Watson, G. Munro, P. Tydemers, D. Pauly, (2010). *Journal of Bioeconomics* 12, 201-225.

subsidies; global fisheries; value

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#### 66. **Subsidies to High Seas Bottom Trawl Fleets and the Sustainability of Deep-Sea Demersal Fish Stocks**

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subsidies; high seas; deep-sea fisheries; sustainability

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global fisheries; marine fisheries; primary production; sustainability; human footprint

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seafood consumption; global fisheries; international trade; sustainability; Japan; USA; EU; markets

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Illegal catch; IUU; global catch

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#### 70. **Projecting Global Marine Biodiversity Impacts under Climate Change Scenarios**

W. W. L. Cheung, V. W. Y. Lam, J. L. Sarmiento, K. Kearney, R. Watson, D. Pauly, (2009). *Fish and Fisheries* 10, 235-251.

bioclimate envelope; climate change impact; global marine biodiversity; niche-based model; species turnover

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Ecopath; Ecosim; Ecosystem model; global model; LME; biomass

10.1016/j.ecolmodel.2009.04.041, <http://www.ecomarres.com/downloads/DataModel.pdf>

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C. Mora, R. A. Myers, T. J. Pitcher, C. De Young, R. Sumaila, D. Zeller, R. Watson, F. J. Gaston, B. Worm, (2009). *PLoS Biology* 7, e1000131.

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B. Worm, R. Hilborn, J. K. Baum, T. A. Branch, J. S. Collie, C. Costello, M. J. Fogarty, E. A. Fulton, J. A. Hutchings, S. Jennings, O. P. Jensen, H. J. Lotze, P. M. Mace, T. A. McClanahan, C. Minto, S. R. Palumbi, A. M. Parma, D. Ricard, A. A. Rosenberg, R. Watson, D. Zeller, (2009). *Science* 325, 578-585.

fisheries; global; management; recovery; collapse; LME

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global warming; climate change; global fisheries; macroecology; range

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B. S. Halpern, S. Walbridge, K. A. Selkoe, C. V. Kappel, F. Micheli, C. D'Agrosa, J. Bruno, K. Casey, C. Ebert, H. Fox, Fujita.R., D. Heinemann, H. S. Lenihan, E. M. P. Madin, M. Perry, E. Selig, M. Spalding, R. Steneck, R. Watson, (2008). *Science* 319, 948-952.

mapping; global marine; ecosystems; human threats; impacts

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mapping; global marine; ecosystems; human threats; impacts

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global; human threats; impacts; marine; mapping

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**78. The Debt of Nations and the Distribution of Ecological Impacts from Human Activities**

U. T. Srinivasan, S. P. Carey, E. Hallstein, P. A. T. Higgins, A. C. Kerr, L. E. Koteen, A. B. Smith, R. Watson, J. Harte, R. B. Norgaard, (2008). *Proceedings of the National Academy of Sciences* 105, 1768-1773.

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subsidy; global fishing; fuel; price

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global catch; threat; vulnerability

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seabird – fisheries interactions; resource overlap; foraging distribution; seabird food consumption; seabird

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marine protected area; MPA; high seas; global; marine reserve

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landed values; catches; price; mapping; temporal applications

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subsidy; global fisheries; WTO

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spatial modeling; habitat prediction; RES; habitat suitability

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deep-sea; deep-water fisheries; threat; global trends; global

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fishing gear; database; catch; trawl; dredge; purse seine

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marine biodiversity; value; biodiversity; services; global

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global; fisheries; impacts; trends

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global; trophic level; biodiversity

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internet; catch; global

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Y. Ye, N. Loneragan, D. Die, R. Watson, B. Harch, (2005). *Fisheries research* 73, 231-249.

bioeconomic modelling; risk assessment; stock enhancement; tiger prawn; *Penaeus esculentus*; Australia

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fisheries landings; fisheries statistics; global fisheries; mapping

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V. Christensen, S. Guenette, J. J. Heymans, C. J. Walters, R. Watson, D. Zeller, D. Pauly, (2003). *Fish and fisheries* 4, 1-24.

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D. Pauly, J. Alder, E. Bennett, V. Christensen, P. Tyedmers, R. Watson, (2003). *Science* 302, 1359-1361.

global; biodiversity; catch scenario; energy; fuel

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D. Pauly, V. Christensen, S. Guénette, T. J. Pitcher, U. R. Sumaila, C. J. Walters, R. Watson, D. Zeller, (2002). *Nature* 418, 689-695.

sustainability; fisheries; global

10.1038/nature01017, <http://www.ecomarres.com/downloads/Pauly-et-al-Nature2002.pdf>

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bycatch; IUU; illegal; catch

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R. Watson, D. Pauly, (2001). *Nature* 414, 534-536.

landings; saup; China; global; bias

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R. Watson, J. Alder, C. J. Walters, (2000.). *Fish and Fisheries* 1, 94-98.

marine protected areas; ecological models; Ecosim; Ecopath; marine reserves; MPA

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MPA; China; Hong Kong; ecosystem

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shrimp; prawn; model; optimisation; fisheries



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**104. Performance of Transect and Point Count Underwater Visual Census Methods.**

R. A. Watson, T. J. Quinn II, (1997). *Ecological Modelling* 104, 103-112.

visual census; transect; dive; census; model; simulation; coral reef

, <http://www.ecomarres.com/downloads/uvc2.pdf>

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R. Watson, C. T. Turnbull, K. J. Derbyshire, (1996). *Marine and freshwater research* 47, 77-85.

shrimp; recruitment; model; Australia

1448-6059, <http://www.ecomarres.com/downloads/PrawnRecruitment.pdf>

**106. Evaluating Closed Season Options with Simulation for a Tropical Shrimp Fishery**

R. A. Watson, V. R. Restrepo, (1995). *ICES Marine Science Symposia* 199, 391-398.

shrimp; model; optimisation; closures; prawn

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**107. Bias Introduced by the Non-Random Movement of Fish in Visual Transect Surveys**

R. Watson, G. M. Carlos, M. A. Samoilys, (1995). *Ecological Modelling* 77, 205-214.

transect; diver; survey; model; simulation; coral reef

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**108. Distribution of Seagrasses, and Their Fish and Penaeid Prawn Communities, in Cairns Harbour, a Tropical Estuary, Northern Queensland, Australia**

R. G. Coles, W. J. L. Long, R. A. Watson, K. Derbyshire, (1993). *Marine and Freshwater Research* 44, 193-210.

seagrass; shrimp; habitat prediction; Australia

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**109. Closed Seasons and Tropical Penaeid Fisheries: A Simulation Including Fleet Dynamics and Uncertainty**

R. A. Watson, D. J. Die, V. R. Restrepo, (1993). *North American Journal of Fisheries Management* 13, 326-336.

model; shrimp; simulation; optimisation; fleet; model; prawn; Australia; Torres Strait

0275-5947, <http://www.ecomarres.com/downloads/closures.pdf>

**110. Simulation Estimates of Annual Yield and Landed Value for Commercial Penaeid Prawns from a Tropical Seagrass Habitat, Northern Queensland, Australia**

R. A. Watson, R. G. Coles, W. J. L. Long, (1993). *Marine and Freshwater Research* 44, 211-219.

shrimp; value; yield; seagrass; Australia; model; simulation; prawn

1448-6059, <http://www.ecomarres.com/downloads/MF9930211.pdf>

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R. Watson, C. T. Turnbull, (1993). *Fisheries Research* 17, 353-368.

prawn; shrimp; Torres Strait; Australia; migration; growth; tiger prawn; endeavour prawn

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### **112. Dissipation of Spatial Closure Benefits as a Result of Non-Compliance**

D. J. Die, R. A. Watson, (1992). *Mathematics and computers in simulation* 33, 451-456.

value; compliance; closure; model; simulation; Australia

0378-4754, <http://www.ecomarres.com/downloads/Dissipation.pdf>

### **113. A Per-Recruit Simulation Model for Evaluating Spatial Closures in an Australian Penaeid Fishery**

D. J. Die, R. A. Watson, (1992). *Aquatic Living Resources* 5, 145-153.

simulation; shrimp; prawn; Australia; closure; model

1765-2952, <http://www.ecomarres.com/downloads/PerRecruit.pdf>

### **114. Sledges for Daytime Sampling of Juvenile Penaeid Shrimp**

C. T. Turnbull, R. A. Watson, (1992). *Fisheries research* 14, 31-40.

shrimp; prawn; sampling; juvenile; seagrass

0165-7836, <http://www.ecomarres.com/downloads/sledges.pdf>

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V. R. Restrepo, R. A. Watson, (1991). *Canadian Journal of Fisheries and Aquatic Sciences* 48, 1431-1436.

shrimp; reproduction; model; prawn; crustacean

, <http://www.ecomarres.com/downloads/crust.pdf>

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R. Watson, M. L. C. Dredge, D. G. Mayer, (1990). *Marine and Freshwater Research* 41, 65-77.

bycatch; trawl; shrimp; Australia; coral reef; GBR

1448-6059, <http://www.ecomarres.com/downloads/MF9900065.pdf>

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R. A. Watson, J. Keating, (1989). *Asian Fish. Sci* 3, 45-56.

shrimp; prawn; Torres Strait; Australia; velvet prawn; biology; recruitment; reproduction

, <http://www.ecomarres.com/downloads/velvet.pdf>

**118. Temporal and Spatial Zonation of the Demersal Trawl Fauna of the Central Great Barrier Reef**

R. Watson, G. Goeden, (1989). *Memoirs of the Queensland Museum* 27, 611-620.

coral reef; GBR; MPA; Australia; bycatch

0079-8835, <http://www.ecomarres.com/downloads/reefmus.pdf>

**119. Growth, Mortality, Parasitism, and Potential Yields of Two Priacanthus Species in the South China Sea.**

R. J. G. Lester, R. A. Watson, (1985). *J. Fish Biol.* 27, 307-318.

trawl; Hong Kong; China; growth; mortality; parasitology; yield; bigeye

, <http://www.ecomarres.com/downloads/Priacanth.pdf>

**120. The Life Cycle and Morphology of Tetracerasta Blepta, Gen. Nov. Sp. Nov. And Stegodexamene Callista, Sp. Nov. (Trematoda: Lepocreadiidae) from the Long Finned Eel, Anguilla Reinhardtii Steindachner.**

R. A. Watson, (1984). *Aust. J. Zool.* 32, 177-204.

parasitology; Australia; trematode; lifecycle

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