

JOSHUA ELI CINNER

ARC Centre of Excellence for Coral Reef Studies James Cook University Townsville QLD 4811 Australia joshua.cinner@jcu.edu.au

Summary of Research Interests

My research explores how social, economic, and institutional drivers shape the ways in which people use, perceive, and govern natural resources. I work closely with ecologists on interdisciplinary research topics such as: defining the conditions that lead to successful governance of marine fisheries; understanding resilience and thresholds in social-ecological systems; and examining vulnerability to environmental change. I have worked on human dimensions of resource management in Australia, Chile, Indonesia, Jamaica, Kenya, Madagascar, Mexico, Mozambique, Papua New Guinea, Seychelles, Tanzania, and USA. In 2015, I was awarded a Pew Fellowship in Marine Conservation.

Education

PhD, 2006 Thesis on “The role of socioeconomic factors on traditional coral reef management in Papua New Guinea”	James Cook University, Australia
MA Marine Affairs, 2000 Thesis on “Socioeconomic factors influencing perceptions and use of coastal resources in Mahahual, Mexico”	University of Rhode Island, USA
BA Environmental Studies & Geography (double major), 1995	University of Colorado, USA

Research and Management Positions

Professor (E level, tenured research-only)	2014
Principal Research Fellow (D level)	2012-2013
Senior Research Fellow (C level, equivalent Associate Professor)	2010-2011
Research Fellow (B level, equivalent Assistant Professor)	2008-2009
Postdoctoral Research Fellow (A level)	2006-2007
ARC Centre of Excellence for Coral Reef Studies, James Cook University, Townsville, Australia	
Postdoctoral Research Fellow	2005-2006
Coral Reef Conservation Project, Mombasa, Kenya	Supervisor: Dr. Tim McClanahan
◆ Lead social scientist on project examining the socioeconomic impacts of coral bleaching, and social resilience in 30 coastal communities throughout East Africa	
Environmental Social Scientist	2001-2003
Wildlife Conservation Society, New York	Supervisor: Dr. Tim McClanahan
◆ Lead social scientist on interdisciplinary project examining the effectiveness of different marine conservation strategies	
◆ Designed & conducted socioeconomic research in 30 fishing communities in Papua New Guinea & Indonesia	
◆ Conducted capacity-building by mentoring two national junior scientists and training 19 research assistants	2000
Marine Protected Area GIS Consultant	
Ocean Conservancy, Washington, DC	Supervisor: Dr. Jack Sobel
◆ Designed and implemented a survey exploring the varying management objectives, levels of protection, and long-term biodiversity conservation value offered by the more than 100 protected areas in the Gulf of Maine	
Graduate Intern	2000
National Park Service (Social Science Program) Washington, DC	Supervisor: Dr. Gary Machlis
Research & Teaching Assistant	1999-2000
University of Rhode Island, Kingston, RI	Supervisor: Prof L. Juda

US Peace Corps

Montego Bay Marine Park, Montego Bay, Jamaica

1996-1998

Supervisor: Jill Williams

Designed and implemented an environmental education strategy for a coral reef marine park:

- ◆ Worked with USAID and local staff members to develop a five-year park management plan
- ◆ Coordinated weekly environmental activities in five schools

Awards and Fellowships

- ◆ **Pew Fellowship in Marine Conservation** (2015) from Pew Charitable Trust *US\$150,000*
- ◆ **Future Fellowship from the Australian Research Council** (2016-2020) *US\$714,000*
- ◆ **Australian Research Fellowship from the Australian Research Council** (2011-2015) *US\$680,000*
- ◆ **Australian Postdoctoral Fellowship from the Australian Research Council** (2007-10) *US\$205,000*
- ◆ **JCU Vice Chancellor's Award for Research Excellence (2011)** *US\$1,000*

Research Grants

- ◆ **US\$25,000,000** from Australian Research Council for ARC Centre of Excellence for Integrated Coral Reef Studies (Centre Investigator)
- ◆ **US\$80,000** from FAO (Principal Investigator, 2012)
- ◆ **US\$2,995** from the Western Indian Ocean Marine Science Association (Principal Investigator, 2012)
- ◆ **US\$25,000** from the Western Indian Ocean Marine Science Association to lead 3^d working group on "Social and ecological responses to reef ecosystem change in the Western Indian Ocean." (Principal Investigator) (2010)
- ◆ **US\$400,000** from the MacArthur Foundation "Building the Foundation for Adaptation: Reef Susceptibility, Adaptive Capacity & Management Tools for Coral Reefs in the Face of Climate Change." (Co-Investigator) (2009-2012)
- ◆ **US\$150,000** from the Western Indian Ocean Marine Science Association "The spatial behavior of artisanal fishers" (Co-Investigator) (2009-10)
- ◆ **US\$23,919** from the National Geographic Society in support of project "How can communities sustainably manage coral reefs?" (Principal Investigator) (2008)
- ◆ **US\$16,500** from the Western Indian Ocean Marine Science Association to write a book on "Adapting to a Changing Environment: Global Warming Consequences and Proposed Actions for the Western Indian Ocean" (2008)
- ◆ **US\$30,000** from the Western Indian Ocean Marine Science Association to lead 2nd working group on "Social and ecological responses to reef ecosystem change in the Western Indian Ocean." (Principal Investigator) (2008)
- ◆ **US\$9,000** from the Australian Academy of Science for scientific visit to Europe (Principal Investigator) (2008)
- ◆ **US\$30,000** from the Western Indian Ocean Marine Science Association to lead working group on "Social and ecological responses to reef ecosystem change in the Western Indian Ocean" (Principal Investigator) (2007)
- ◆ **US\$150,000** the Western Indian Ocean Marine Science Association "The effectiveness of community based organizations for managing coastal resources in the Western Indian Ocean." (Principal Investigator) (2007-10)
- ◆ **US\$150,000** from the Western Indian Ocean Marine Science Association "Preparing for climate change through the assessment of biodiversity and management preferences across a scale of environmental variation in the Western Indian Ocean." (Co- Investigator) (2007-10)
- ◆ **US\$150,000** from Western Indian Ocean Marine Science Association "The effects of coral bleaching on coral reef fish, fisheries, ecosystem services, and associated socioeconomics in the Western Indian Ocean" (Co-Investigator) (2005-7)
- ◆ **US\$2,000** from the North American Free Trade Agreement for socioeconomic study in Mexico (1999)
- ◆ **US\$2,500** from Peace Corps for environmental education projects in Jamaica (1997)

TOTAL (including fellowships)= **US\$27,932,914**

Publications

*I have published 115 peer-reviewed journal articles, 1 book (not an edited volume), 7 book chapters, numerous policy documents (policy briefs, policy-oriented reports), & other material (e.g., book reviews, popular press articles, scientific proceedings). Together this body of work has received >6900 citations and an H-Index of 48. I currently receive >1200 citations/year on Google Scholar. Nearly 10% of my papers have been recognized by Thompson-Reuters ISI Web of Knowledge as "Hot Papers" and/or "Highly Cited" papers and 9 papers have been recommended by Faculty of 1000 Prime. * = student led publication.*

Book (not edited volume)

McClanahan TR, Cinner J. (2012). Adapting to a Changing Environment: confronting the consequences of climate change. *Oxford University Press*. New York.

- Reviewed in *PLoS Biology* < <http://www.plosbiology.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.1001387>>

Peer-Reviewed Journal Articles (115)

2017/In press

* Bergseth, B. et al. (in press) A social-ecological approach to assessing and managing poaching by recreational fishers. *Frontiers in Ecology and the Environment*

Graham, NAJ, TR McClanahan, MA MacNeil, SK Wilson, JE Cinner, C Huchery, TH Holmes (2017) Human disruption of coral reef trophic structure. *Current Biology*

- Cover feature & highlighted in a 'Dispatches' editorial
- Altimetric score of 144

Hughes, TP, M. Barnes, D. Bellwood, JE Cinner, GS Cumming, JBC Jackson, J Kleypas, I van de Leemput, J Lough, TH Morrison, SR Palumbi, E van Ness, M Scheffer (accepted) Coral Reefs in the Anthropocene. *Nature*.

2016

* Arias, A., RS Pressey, R. Jones, J. Alvarez-Romero, J Cinner (2016). Optimizing enforcement and compliance in offshore marine protected areas: A case study from Coco's Island, Costa Rica *Oryx* 50: 18-26.

Cinner, J et al. (2016). Bright spots among the world's coral reefs. *Nature* 535: 416-419.

- Cover feature
- Received cover feature and News & Views editorial in *Nature*
- Coverage in 110 news outlets, including *The Atlantic*, *LA Times*, *BBC*, *Washington Post*, *Daily Mail*, *NPR*
- Altimetric score of 1129- which is in the 99th percentile of all articles and 97th percentile of *Nature* articles
- Recommended by Faculty of 1000

Cinner J, MS Pratchett, NAJ Graham, V Messmer, MMPB Fuentes, T Ainsworth, NC Ban, LK Bay, JL Blythe, D Dissard, S Dunn, LS Evans, M Fabinyi, P Fidelman, J Figueiredo, AJ Frisch, CJ Fulton, CC Hicks, V Lukoschek, J Mallela, A Moya, L Penin, JL Rummer, S Walker, DH Williamson (2016). A framework for understanding climate change impacts on coral reef social-ecological systems. *Regional Environmental Change*. 16: 1133-1146

- ISI Highly Cited paper

Gelcich et al. (2016). Fishers' perceptions on the Chilean coastal TURF system after two decades: problems, benefits and emerging needs. *Marine Pollution Bulletin*. DOI: <https://doi.org/10.5343/bms.2015.1082>

*Gurney, G, JE Cinner, J Sartin, RL Pressey, NC Ban, N. Marshall, D. Prabuning (2016). Participation in devolved commons management: Multiscale socioeconomic factors related to individuals' participation in community-based management of marine protected areas in Indonesia. *Environmental Science & Policy*. 61: 212-220

- *Maire, E., JE Cinner, L. Velez, C. Huchery, C. Mora, S. Dagata, L. Vigliola, L. Wantinez, M. Kulbicki, D. Mouillot. (2016). How accessible are reefs to people? A global assessment based on travel time. *Ecology Letters*. 19: 351-360.
- *Cover feature*
- McClanahan, T., JE Cinner, S. Ruiz (2016). Simulating the outcomes of resource user- and rule-based regulations in a coral reef fisheries-ecosystem model. *Global Environmental Change*. 38: 58-69
- Pendleton et al. (2016). Coral Reefs and People in a High-CO2 World: Where Can Science Make a Difference to People? *PLoS ONE* 11(11): e0164699. doi:10.1371/journal.pone.0164699
- *Covered in Washington Post & Boston Globe*
- *Waldie, P., GR. Almany, TH Sinclair-Taylor, RJ Hamilton, T Potuku, MA. Priest, KL Rhodes, J Robinson, JE Cinner, ML Berumen (2016). Restricted grouper reproductive migrations support community-based Management. *Royal Society Open Science* 3: 150694. <http://dx.doi.org/10.1098/rsos.150694>
- 2015**
- Aguilera, S.E., Cole, J., Finkbeiner, E.M., Le Cornu, E., Ban, N.C., Carr, M.H., Cinner, J.E., Crowder, L.B., Gelcich, S., Hicks, C.C., Kittinger, J.N., Martone, R., Malone, D., Pomeroy, C., Starr, R.M., Seram, S., Zuercher, R., Broad, K. (2015). Managing small-scale commercial fisheries for adaptive capacity: Insights from dynamic social-ecological drivers of change in Monterey Bay. *PLoS One*. 10.3: e0118992.
- *Arias, A., J Cinner, R Jones and RL Pressey (2015). Levels and drivers of fishers' compliance with marine protected areas. *Ecology and Society* 20(4):19. <http://www.ecologyandsociety.org/vol20/iss4/art19/>
- *Bergseth B, J Cinner, G Russ (2015). Measuring and monitoring compliance in no-take marine reserves. *Fish & Fisheries*. 16: 240-258
- *ISI Highly Cited paper*
- *Biggs et al. (2015) Marine tourism in the face of global change: the resilience of enterprises to crises. *Ocean and Coastal Management*. 105: 65-74
- Cinner, J and TR McClanahan (2015). A sea change on the African coast: Preliminary social and ecological outcomes of a governance transformation in Kenyan fisheries. *Global Environmental Change*. 30: 133-139
- Cinner et al. (2015a). Changes in adaptive capacity of Kenyan fishing communities. *Nature Climate Change*. 5: 872-876
- Eckstrom et al. (2015). Vulnerability and adaptation of US shellfisheries to ocean acidification. *Nature Climate Change*. 5: 207-214
- *ISI Highly Cited paper & ISI Research Front*
- *Gurney, G., R. Pressey, J. Cinner, R. Pollnac, and S. Campbell (2015). Integrating Conservation and Development: evaluating a community-based marine protected area project for equity of socioeconomic impacts. *Philosophical Transactions of the Royal Society B*. 370: 20140277
- *Hicks CC, JE Cinner, N. Stoeckl, TR McClanahan (2015). Linking ecosystem services and human values theory. *Conservation Biology* 29: 1471-1480
- *Januchowski-Hartley, F., NAJ Graham, JE Cinner, G Russ (2015). Local fishing influences coral reef fish behavior inside protected areas of the Indo-Pacific. *Biological Conservation*. 182: 8-12
- MacNeil et al. (2015) Recovery potential of the world's coral reef fishes. *Nature*. 520: 341-344
- *ISI Highly Cited paper*
 - *Feature of a Nature Master Class video*
- Maina et al. Integrating social-ecological vulnerability assessments with climate forecasts to improve local climate adaptation planning *Regional Environmental Change*. 16: 881-891
- McClanahan TR, Cinner J, Alison EH. (2015a). Managing fisheries for human and food security. *Fish & Fisheries* 16: 78-103
- *ISI Highly Cited paper*

McClanahan, TR, MA MacNeil, NAJ Graham, J Cinner (2015b). Biomass-based targets and the management of multispecies coral reef fisheries. *Conservation Biology*. 29: 409-417

*Robinson et al. (2015). Fish and fisher behaviour influence the susceptibility of groupers to fishing at a multispecies spawning aggregation site. *Coral Reefs*. 34: 371-382

2014

Campbell SJ, Mukminin A, Kartawjaya T, Huchery C, Cinner J. (2014). Changes in a coral reef fishery along a gradient of harvesting intensity in an Indonesian marine protected area. *Aquatic Conservation: marine and freshwater ecosystems* 24: 92-103

Cinner J. Coral reef livelihoods. (2014). *Current Opinion in Environmental Sustainability* 7:65-71

Cinner J, et al. (2014). Winners and losers in marine conservation: Fisher's experiences of displacement and perceptions of spillover from marine protected areas in Seychelles and Kenya. *Society & Natural Resources*. 27: 994-1005

Condy M, J Cinner, TR McClanahan, DB Bellwood (2014). Projections of the impacts of gear-modification on the recovery of fish catches and ecosystem function in an impoverished fishery. *Aquatic Conservation: Marine and Freshwater Ecosystems* 25: 396-410.

D'agata, S., D Mouillot, M Kulbicki, DR Bellwood, J Cinner, PF Cowman, M Kronen, S Pinca, L Vigliola. (2014). Human-mediated loss of phylogenetic and functional diversity in coral reef fishes. *Current Biology* 24: 555-560

Graham, NAJ, J Cinner, A Norström, M Nyström (2014). Coral reefs as novel ecosystems: embracing new futures. *Current Opinion in Environmental Sustainability* 7: 9-14
- *ISI Highly Cited paper*

*Gurney et al. (2014). Poverty and protected areas: an evaluation of a marine integrated conservation and development project in Indonesia *Global Environmental Change*. 26: 98-107

*Hicks CC and JE Cinner (2014). Social, institutional, and knowledge mechanisms mediate diverse ecosystem service benefits from coral reefs. *PNAS*. 111: 17791-17796

*Hicks CH, Stoeckl N, Cinner J, Robinson J. (2014) Fishery benefits and stakeholder priorities associated with a coral reef fishery and their implications for management. *Environmental Science & Policy* 44: 258-270

*Januchowski-Hartley FA, Cinner J, Graham NAJ. (in press). Fisheries benefits attained from behavioural modification of fishes in periodically harvested fisheries closures in Melanesia. *Aquatic Conservation: marine and freshwater ecosystems* 24: 777-790

Kittinger et al. (2014). A practical approach for putting people in ecosystem-based ocean planning. *Frontiers in Ecology and the Environment*. 12: 448-456

McClanahan et al. (2014). Perceived benefits of management benefits in Madagascar. *Ecology & Society*. 19(1) 5

*Robinson J, Cinner JE, Graham NAJ (2014) The Influence of Fisher Knowledge on the Susceptibility of Reef Fish Aggregations to Fishing. *PLoS ONE* 9(3): e91296. doi:10.1371/journal.pone.0091296

2013

*Brewer T, Cinner J, Green A, Pressey R. (2013). Market access and socioeconomic development explain patterns of exploitation on coral reefs. *Conservation Biology* 27: 443-452

Cinner J, MA MacNeil, X. Basutro, S. Gelcich. (2013). Looking beyond the fisheries crisis: Cumulative learning from small-scale fisheries through diagnostic approaches. *Global Environmental Change* 6: 1359-1365

Cinner J, Graham NAJ, Huchery C, MacNeil MA. (2013). Global impacts of local human population density and distance to markets on the condition of coral reef fisheries. *Conservation Biology* 27: 453-458

- *Two reviews in Faculty of 1000*

Cinner J, Huchery C. (2013). A comparison of social outcomes associated with different fisheries co-management institutions. *Conservation Letters* 7: 224-232

- Cinner J, Huchery C, Darling ES, Humphries AT, Graham NAJ, Hicks CH, Marshall N, McClanahan TR. (2013) Evaluating social and ecological vulnerability of coral reef fisheries to climate change. *PLoS One*. 8(9): e74321. doi: 10.1371/journal.pone.0074321
- Cohen P, Cinner J, Foale SJ. (2013). Fishing dynamics associated with periodically harvested marine closures. *Global Environmental Change* 6: 1702-1713
- Cvitanovic C, Wilson SK, Fulton CJ, Almany GR, Anderson P, Babcock RC, Ban NC, Beeden RJ, Begger M, Cinner J, Dobbs K, Evans LS, Farnham A, Friedman KJ, Gale K, Gladstone W, Grafton Q, Graham NA, Gudge S, Harrison PL, Holmes TH, Johnstone N, Jones GP, Jordan A, Kendrick AJ, Klein CJ, Little LR, Malcolm HA, Morris D, Possingham HP, Prescott J, Pressey RL, Skilleter GA, Simpson C, Waples K, Wilson D, Williamson DH. (2013). Critical research needs for managing coral reef Marine Protected Areas: perspectives of academics and managers. *Journal of Environmental Management* 114: 84-91
- Graham NAJ, Bellwood DR, Cinner J, TP Hughes, Norström AV, Nyström M. (2013). Managing resilience to reverse phase shifts in coral reefs. *Frontiers in Ecology and the Environment* 11: 541-548
 - *ISI Hot Paper*
 - *Cover feature*
- *Hicks CH, Graham, NAJ, Cinner J (2013). Synergies and tradeoffs in how managers, scientists, and fishers value coral reef ecosystem services. *Global Environmental Change* 6: 1444-1453
- *Januchowski-Hartley FA, Graham NAJ, Cinner J, Russ GR. (2013). Spillover of fish naïveté from marine reserves. *Ecology Letters* 16:191-197
- Johnson AE, Cinner J, Hardt M, Jacquet J, McClanahan TR, Sanchirico J. (2013). Trends, current understanding, and future directions for artisanal coral reef fisheries research. *Fish & Fisheries* 14: 281–292
- Kittinger, J. N., E. M. Finkbeiner, N. C. Ban, K. Broad, M. H. Carr, J. E. Cinner, S. Gelcich, M. L. Cornwell, J. Z. Koehn, X. Basurto, R. Fujita, M. R. Caldwell, and L. B. Crowder. (2013) Emerging frontiers in social-ecological systems research for sustainability of small-scale fisheries. *Current Opinion in Environmental Sustainability*. 5: 352-357
- MacNeil MA, Cinner J. (2013). Hierarchical livelihood outcomes among co-managed fisheries. *Global Environmental Change* 6: 1393-1401
- McClanahan TR, Cinner J, Abunge C (2013). Identifying management preferences, institutional organizational rules, and attributes, and their capacity to improve fisheries management in Pemba, Mozambique. *African Journal of Marine Science* 35(1)
- 2012**
- Ban NC, Cinner J, Adams V, Mills M, Almany GR, Ban S, McCook LJ, White A (2012) Recasting shortfalls of marine protected areas as opportunities through adaptive management. *Aquatic Conservation* 22: 262–271
- *Brewer T, Cinner J, Fisher R, Green A, Wilson SK. (2012). Market access, population density, and socioeconomic development explain diversity and functional group biomass of coral reef fish assemblages. *Global Environmental Change* 2: 399-406
- Bruggeman H, Rodier M, Guillaume M, Andréfouët S, Arfi R, Cinner J, Pichon M, Ramahatratra F, Rasoamanendrika F, Zinke J, McClanahan T. (2012). Wicked social-ecological problems forcing unprecedented change on the latitudinal margins of coral reefs: the case of southwest Madagascar. *Ecology & Society* 17: 1-17
- Campbell SJ, Hoey AS, Maynard J, Kartawijaya T, Cinner J, Graham NAJ, Baird AH. (2012). Weak compliance undermines the success of no-take zones in a large government controlled marine protected area. *PLOS One* 7(11): e50074. doi:10.1371/journal.pone.0050074
- Campbell SJ, Cinner J, Ardiwijaya R, Pardede S, Kartawijaya T, Mukminin A, Herdiana Y, Hoey A, Pratchett M, Baird A. (2012) Avoiding conflicts and protecting coral reefs: Customary management protects habitat and fish biomass. *ORYX* 46: 486-494
- Cinner J, McClanahan TR, MacNeil MA, Graham NAJ, Daw TM, Mukminin A, Feary DA, Rabearisoa AL, Wamukota A, Jiddawi N, Campbell SJ, Baird AH, Januchowski-Hartley FA, Hamed S, Lahari R, Morove T, Kuange J. (2012a). Comanagement of coral reef social-ecological systems. *Proceedings of the US National Academies of Sciences (PNAS)* 109: 5219-5222

- *ISI Highly Cited paper*

- Cinner J, Daw TM, McClanahan TR, Muthiga N, Abunge C, Hamed S, Mwaka B, Rabearisoa A, Wamukota A, Fisher E, Jiddawi N. (2012b). Transitions toward co-management: the process of marine resource management devolution in three east African countries. *Global Environmental Change* 22: 651-658
- Cinner J, McClanahan TR, Graham NAJ, Daw TM, Maina J, Stead SM, Wamukota A, Brown K, Bodin Ö. (2012c). Vulnerability of coastal communities to key impacts of climate change on coral reef fisheries. *Global Environmental Change* 22: 12–20
- *ISI Highly Cited paper & ISI Research Front*
- Highlighted in *Nature Climate Change*
- Cinner J, Basurto X, Fidelman P, Kuange J, Lahari R, Mukminin A. (2012d). Institutional designs of customary fisheries management arrangements in Indonesia, Papua New Guinea and Mexico. *Marine Policy* 36: 278-285
- Cinner J, Pomeroy RS. (2012). People and the Sea. *Coastal Management* 40: 235-238
- Daw T, Cinner J, McClanahan TR, Brown K, Stead SM, Graham NAJ, Maina J. (2012). To fish or not to fish: factors at multiple scales affecting artisanal fishers' readiness to exit a declining fishery. *PLoS One* 7(2): e31460.
- Covered by *BBC news*
- Fidelman P, Evans L, Fabinyi M, Foale S, Cinner J, Rosen F. (2012). Governing large-scale marine commons: contextual challenges in the Coral Triangle. *Marine Policy* 36:42-53
- Hughes S, Yaua A, Max L, Petrovicc N, Davenport F, Marshall M, McClanahan TR, Allison EA, Cinner J. (2012). A Framework to Assess National Level Vulnerability from the Perspective of Food Security: The Case of Coral Reef Fisheries. *Environmental Science & Policy* 23: 95-108
- McClanahan T, Abunge CA, Cinner J. (2012). Heterogeneity in fishers' and managers' preferences towards management restrictions and benefits in Kenya. *Environmental Conservation* 39: 357-369
- McLoed L, Green A, Game E, Anthony K, Cinner J, Heron S, Kleypas J, Lovelock C, Pandolfi J, Pressey R, Salm R, Schill S, Woodroffe C. (2012). Integrating climate and ocean change vulnerability into conservation planning. *Coastal Management* 40: 651-672
- *Setiawan A, Cinner J, Sutton S, Mukim A. (2012). The perceived impact of customary marine resource management on household and community welfare in northern Sumatra, Indonesia. *Coastal Management* 40: 239-249
- Wamukota A, Cinner J, McClanahan TR. (2012). Co-management of coral reef fisheries: A critical evaluation of the literature. *Marine Policy* 36: 481-488

2011

- Ban NC, Adams V, Almany GR, Ban S, Cinner J, McCook LJ, Mills M, Pressey RL, White A. (2011). Designing, implementing and managing marine protected areas: emerging trends and opportunities for coral reef nations. *Journal of Experimental Marine Biology and Ecology* 408: 21-31
- Cinner J. (2011). Social-ecological traps in coral reef fisheries *Global Environmental Change* 21: 835-839
- *Listed in Faculty of 1000*
- Cinner J, David G. (2011). Human dimensions of coastal and marine ecosystems in the western Indian Ocean. *Coastal Management* 39: 351-357
- Cinner J, Folke C, Daw T, Hicks C. (2011). Responding to change: using scenarios to understand how socioeconomic factors may influence amplifying or dampening exploitation feedbacks among Tanzanian fishers. *Global Environmental Change* 21: 7-12
- *ISI Highly Cited paper*
- Daw TM, Cinner J, McClanahan TR, Graham NAJ, Wilson SK (2011). Design factors & socioeconomic variables associated with ecological responses to fishery closures in the western Indian Ocean. *Coastal Management* 39: 412-424
- Graham NAJ, Ainsworth TD, Baird AH, Ban NC, Bay LK, Cinner J, ... & Williamson, D. H. (2011). From Microbes to People: Tractable benefits of no-take areas for coral reefs. *Oceanography and Marine Biology: an Annual Review* 46: 251-296

Feary D, Cinner J, Graham NAJ, Hartley FA. (2011). Effects of Customary Marine Closures on Fish Behavior, Spear-Fishing Success, and Underwater Visual Surveys. *Conservation Biology* 25: 341-349

- *Cover feature*

*Januchowski-Hartley F, Graham NAJ, Feary D, Morove T, Cinner J. (2011). Fear of Fishers: Human Predation Explains Behavioral Changes in Coral Reef Fishes. *PLoS ONE*. 6(8): e22761.

McClanahan TR, Graham NAJ, MacNeil MA, Muthiga N, Cinner J, Bruggeman H, Wilson SK. (2011). Critical thresholds and tangible targets for ecosystem-based management of coral reef fisheries. *Proceedings of the National Academy of Sciences (PNAS)* 108:17230-3

- *Listed in Faculty of 1000*

- Coverage in Sydney Morning Herald, Courier Mail, ABC news, and other key media outlets

Mora C, et al. (2011). Global human footprint on the linkage between diversity and function in reef fishes. *PLoS Biology* 9(4): e1000606

- Coverage in CNN

- *Listed as a 'must read' by Faculty of 1000*

- *ISI Highly Cited paper & ISI Research Front*

Steneck RS, Hughes TP, Cinner J, Adger N, Arnold S, Boudreau S, Brown K, Berkes F, Folke C, Gunderson L, Olsson P, Scheffer M, Walker B, Wilson J, Worm B. (2011). Creation of a gilded trap by the high economic value of the Maine lobster fishery. *Conservation Biology* 25: 904-912

- Coverage in New York Times

- *Listed as 'exceptional' by Faculty of 1000*

2010

Cinner J. (2010). Poverty and the use of destructive fishing gear near east African marine protected areas. *Environmental Conservation* 4: 321-326.

Cinner J, Bodin. Ö. (2010). Livelihood diversification in tropical coastal communities: a network-based approach to analyzing 'livelihood landscapes' *PLoS One* 5(8): e11999

- *Recommended by Faculty of 1000*

Cinner J, McClanahan TR, Wamukota A. (2010). Differences in livelihoods, socioeconomic characteristics, and environmental perceptions between fishers and non-fishers living near and far from marine parks on the Kenyan coast. *Marine Policy* 34:22-28

Feagan RA, Mukherjee N, Shanker K, Baird AH, Cinner J, Kerr AM, Koedam N, Sridhar A, Arthur R, Jayatissa LP, Seen DL, Menon M, Rodriguez S, Shamsuddoha Md, Dahdouh-Guebas F. (2010). Shelter from the storm? The use and misuse of 'bioshields' in managing for natural disasters on the coast. *Conservation Letters* 3: 1-11

Fuentes MMPB, Cinner JE. (2010). Using expert opinion to prioritize impacts of climate change on sea turtles' nesting grounds. *Journal of Environmental Management* 91: 2511-2518

MacNeil A, Graham NAJ, Cinner J, Loring PA, Jennings S, Dulvy NK, Fisk AT, McClanahan TR. (2010). Transitional states in marine fisheries: adapting to predicted global change. *Philosophical Transactions of the Royal Society* 365: 3753-3763

Pollnac R, Christie P, Cinner J, Dalton T, Daw T, Forrester G, Graham N, McClanahan T. (2010). Marine reserves as linked social-ecological systems. *Invited article in Proceedings of the National Academy of Sciences (PNAS)* 107: 18262-18265

-*Recommended by Faculty of 1000*

Wilson SK M Adjeroud, DR Bellwood, ML Berumen, D Booth, Y-Marie Bozec, P Chabanet, A Cheal, J Cinner, M Depczynski, D A Feary, M Gagliano, NAJ Graham, AR Halford, BS Halpern, AR Harborne, AS Hoey, SJ Holbrook, GP Jones, M Kulbiki, Y Letourneur, TL De Loma, T McClanahan, MI McCormick, M Meekan, PJ Mumby, PL Munday, MC Öhman, MS Pratchett, B Riegl, M Sano, RJ Schmitt and C Syms. (2010). Critical knowledge gaps in current understanding of climate change impacts on coral reef fishes. *Journal of Experimental Biology* 213: 894-900

2009

- *Bartlett CY, Manua C, Cinner J, Sutton S, Jimmy R, South R, Nilsson J, Raina J. (2009). Comparison of outcomes of permanently closed and periodically harvested coral reef reserves. *Conservation Biology* 23: 1475-1484
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 - Coverage in New York Times, CNN, Scientific American, ScienceNews, Discovery Channel etc.
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2007

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- Cinner J, Aswani S. (2007). Integrating customary management into marine conservation. *Biological Conservation* 140: 201-216
- In journal's "Top 25 Hottest Articles"

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Book Chapters

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Kittinger J, Cinner J, Aswani S, White A. (2015). Back to the Past? Integrating Customary Practices and Institutions into Co-Management of Small-Scale Fisheries. In J. Kittinger et al. (eds.) "Historical Ecology of Marine Social-Ecological Systems" University of California Press.

McClanahan T, Allison EH, Cinner J. (2013). Managing marine resources for food and human security. In C. Barrett et al. (eds) *Food or Consequences: Food Security and Global Stability*. Oxford University Press.

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Cinner J, Marnane M, Ben J. (2003). *How socioeconomic monitoring can assist marine reserve management: Kimbe Bay, Papua New Guinea*. in Wilkenson, C. and A. Green, editors. "Monitoring Coral Reef Marine Protected Areas." Australian Institute of Marine Science and IUCN Global Marine Program. Townsville.

Proceedings

McClanahan TR, Ruiz Sebastian C, Cinner J, Maina J, Wilson S, Graham N. (2010). Managing fishing gear to encourage ecosystem-based management of coral reefs fisheries. *Proceedings of the 11th International Coral Reef Symposium*, Ft. Lauderdale, Florida, 7-11 July 2008

Book Reviews

Cinner J. (2009). The Middle Ground: Avoiding Environmental Catastrophe by Eric Lambin. *Quarterly Review of Biology* 84: 92-93

Popular articles

Cinner J. (2016) There are bright spots among the world's coral reefs – the challenge is to learn from them. *The Conversation (Online)* <https://theconversation.com/profiles/joshua-cinner-4559/articles>

Cinner J. (2013) Making co-management work. *Current Conservation* 7.2: 18-13

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Cinner J. (2011). Poverty, not population is ruining coral reef ecosystems. *The Conversation (Online)* <http://theconversation.edu.au/poverty-not-population-is-ruining-coral-reef-ecosystems-3591>

Cinner J. (2010). 'Middle class' reef fish feel the economic squeeze. *People & the Environment* 4: 28

Theses

Cinner J. (2006). The role of socioeconomic factors in customary coral reef management in Papua New Guinea. PhD thesis. James Cook University, Townsville, Australia.

Cinner J. (2000). Socioeconomic factors influencing perceptions and use of coastal resources in Mahahual, Mexico. Master's thesis. University of Rhode Island, USA.

Policy-oriented Documents, Reports & Other Publications

Cinner et al. (2013). Policy Brief: Promoting collaborative management of small-scale fisheries in the tropics.

Cinner J, McClanahan T, Wamukota A, Darling E, Humphries A, Hicks C, Huchery C, Marshall N, Hempson T, Graham N, Bodin O, Daw T, Allison E. (2013). Social-ecological vulnerability of coral reef fisheries to climatic shocks. FAO Fisheries and Aquaculture Circular No. 1082. Rome, FAO. 64 pp.

Marshall NA, Marshall PA, Tamelander J, Obura D, Malleret-King D, Cinner J. (2010). A Framework for Social Adaptation to Climate Change: Sustaining Tropical Coastal Communities and Industries. IUCN, Gland, Switzerland

Hoegh-Guldberg O, Hoegh-Guldberg H, Veron JE, Gomez ED, King M, Dews G, Lough J, Cinner J, Russ G, Abbey M, Ambariyanto, Areki F, Schuttenberg HZ, Tewfik A, Barnett J, Oliver J, Hansen L, Leck R, Pet-Soede L, Newman K, Christensen T, Eakin M, Golder B. (2009). The Coral Triangle and Climate Change: Ecosystems, People and Societies at Risk. WWF report for the World Ocean Congress.
- Coverage in CNN, BBC, Al Jazeera, etc.

Cinner J, Fuentes M. (2008). *Human Dimensions of Madagascar's Marine Protected Areas*. Pages 397-404 in Obura D, Tamelander J, and Linden O. "Ten years after bleaching – consequences and issues facing countries in the Indian Ocean. CORDIO/Sida-SAREC. Mombasa.

Cinner J. (2007). The role of taboos in conserving coastal resources in Madagascar. *Invited paper in Traditional Marine Resource Management and Knowledge Information Bulletin* 22: 15-23

Cinner J, Fuentes M. (2006). A Baseline socioeconomic assessment of marine protected areas in Madagascar. A report prepared for the Wildlife Conservation Society, Madagascar.

Cinner J, McClanahan T. (2005). A socioeconomic assessment of fishing communities along the north coast of Kenya. WCS working paper

- Cinner J, et al. (2002). A socioeconomic and coral reef assessment of Tubuseria and Gabagaba villages, Central Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. I
- Cinner J, et al. (2002). A socioeconomic and coral reef assessment of Eruk and Kavieng villages, New Ireland Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. III
- Cinner J, et al. (2002). A socioeconomic and coral reef assessment of Kilu and Patanga villages, West New Britain Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. IV
- Marnane M, Cinner J, Clark T, Ben J, Laviko I, Yamuna R, Kiene W. (2002). A socioeconomic and coral reef assessment of Wadau and Muluk villages, Madang Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. II
- Marnane M, Cinner J, Clark T, Ben J, Laviko I, Yamuna R, Kiene W. (2002). A socioeconomic and coral reef assessment of Riwo and Kranget villages, Madang Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. V
- Marnane M, Cinner J, Clark T, Ben J, Laviko I, Yamuna R, Kiene W. (2002). A socioeconomic and coral reef assessment of Andra and Ahus villages, Manus Province, PNG. WCS Asia-Pacific Coral Reef Program Working Papers No. VI
- Recchia C, Farady S, Sobel J, Cinner J. (2001). *Marine and coastal protected areas in the U.S. Gulf of Maine*. Washington, DC: Center for Maine Conservation.
- Machlis G, Rogers J, Bray D, Cinner J, Forist B. (2000). *Key social and environmental forecasts relevant to the National Park Service*. Washington, DC: National Park Service.
- Jameson SC, Miller M, Cinner J, Clarke R, Pope D. (1997). Montego Bay Marine Park management plan. Montego Bay Marine Park, Jamaica/USAID Jamaica, Kingston

Supervision & Teaching

Supervision:

Currently Supervised Research Students:

- 2014-present Brock Bergseth, **PhD** at JCU (currently enrolled); Primary supervisor
- 2015-present Jacqui Lau, **PhD** at JCU (currently enrolled); Primary supervisor
- 2015-present Emmanuel Mbaru, **PhD** at JCU (currently enrolled); Primary supervisor
- 2016-present Eva Maire, **PhD** at JCU and University Montpellier (co-tutelle); Primary supervisor

Completed Students:

Phd

- 2012-2016 Peter Waldie, **PhD** at JCU; co-supervisor
- 2011-2015 Georgina Gurney, **PhD** at JCU; co-supervisor
- 2012-2015 Jan Robinson, **PhD** at JCU; co-supervisor
- 2012-2016 Adrian Arias, **PhD** at JCU; co-supervisor
- 2010-2014 Fraser Hartley, **PhD** at JCU; co-supervisor
- 2008-2013 Tom Brewer, **PhD** at JCU; Primary supervisor
- 2009-2013 Christina Hicks, **PhD** at JCU. Primary supervisor
- 2007-2011 Duan Biggs, **PhD** at JCU; co-supervisor
- 2007-2010 Chris Bartlett, **PhD** at JCU; co-supervisor.

Master's and Honours

- 2016 Matthew Roscher, **Master's** at JCU; Primary supervisor
- 2015 Eva Maire, **Master's** at University of Montpellier

2011-2012 Brock Bergseth, **Master's** at JCU; co-supervisor
2011-2012 Michelle Condy, **Honours** at JCU; co-supervisor
2010-2011 Adityo Seitawan, **Master's** at JCU; co-supervisor
2011 Jade Delavaux, **Master's** student at University of California, San Diego; co-supervisor
2007 Tom Brewer, **Honours** (First Class) University of Queensland; co-supervisor

Formal University-Level Teaching:

- ◆ Conducted guest lectures in the following undergraduate and graduate classes: The Human Dimensions of Nature, Environment, and Conservation (2010-present); Tropical Fisheries Management (2011-present); Coral Reef Biodiversity (2006-2010); and Managing Coastal and Marine Environments (2004-present).
- ◆ Graded and administered exams as TA & tutored human geography lab (2003-5)

Informal Teaching & Training:

- ◆ Trained 35 local assistants in socioeconomic monitoring in PNG, Kenya Indonesia, Madagascar, Tanzania, and Mexico;
- ◆ Facilitated socioeconomic trainings for NOAA in Okinawa, Japan & Cebu, Philippines;
- ◆ Conducted five environmental lessons per week at local high schools in Jamaica (1996-1998)

Service

Editorial Boards

- ◆ *Conservation Biology*
- ◆ *Ecology & Society*
- ◆ *Coastal Management*
- ◆ *Global Environmental Change (2010-2016)*

Committee Service

- ◆ Human Ethics Monitor, James Cook University 2012-present
- ◆ Scientific committee for 2016 International Coral Reef Symposium; 2011 *Western Indian Ocean Marine Science Conference*, Mombasa; 2012 *International Coral Reef Symposium*; 2009 *Western Indian Ocean Marine Science Conference*, La Reunion
- ◆ Search committees for 8 Research Fellow positions at James Cook University (2008-2012)
- ◆ ARC Centre of Excellence for Coral Reef Studies Student Committee Postdoc Representative (2006-8)

Professional Reviews:

Tenure applications: James Madison University (USA), University of Hawaii (USA)

Grants- Australian Research Council Discovery grants 2012, 2014; Rufford Foundation 2013, 2014; Fernand Braudel-IFER (France) 2014; Research Council of Norway 2012; Swiss National Science Foundation 2012; Rolex awards 2011; CGAIR- 2011; Leverhulme Trust 2010; Wildlife Conservation Society Research Fellowship Program 2005 & 2007; NOAA socioeconomic grants 2006, 2007, 2009; IFS 2007

Journals- *Ambio*, *Aquatic and Living Resources*, *Biodiversity & Conservation*, *Biological Conservation*, *Biology Letters*, *The Canadian Geographer*, *Coastal Management*, *Conservation Biology*, *Coral Reefs*, *Ecology Letters*, *Ecology & Society*, *Ecosystems*, *Environmental Conservation*, *Environmental Management*, *Fish & Fisheries*, *Fisheries Research*, *Global Environmental Change*, *Human Organization*, *International Journal of the Commons*, *Journal of Environmental Management*, *Journal of Marine Biology*, *Journal of Maritime Studies*, *Journal of Social Systems Science*, *Journal of Sustainable Tourism*, *Marine Pollution Bulletin*, *Nature Climate Change*, *Nature Communications*, *Nature Scientific Reports*, *Ocean & Coastal Management*, *PLOS One*, *Proceedings of the International Coral Reef Symposium*, *Proceedings of the National Academy of Science (PNAS)*, *Trends in Ecology & Evolution (TREE)*, *Science*, *Science Advances*, *Society & Conservation*, *Society & Natural Resources*, *Transactions of the American Fisheries Society*, *University of Mauritius Research Journal*, *Western Indian Ocean*, *Journal of Marine Science*.

Books- “Adaptive Capacity and the Making of Environmental Governance” (Editors: Derek Armitage and Ryan Plummer); *The Science of Marine Reserves* (Jane Lubchenco); *Socioeconomic Monitoring Handbook* (L. Bunce et al.).

Conference abstracts- International Coral Reef Symposium 2008, 2012, 2016; Resilience 2008 in Stockholm; Western Indian Ocean Marine Science Association 2009, 2011

Organized Mini-symposia at International Conferences

- ◆ The Science of Compliance. *International Coral Reef Symposium* 2016; Fish & Fishing- the scientific legacy of Glenn Almany *International Coral Reef Symposium* 2016
- ◆ “Building Resilience of Coastal Communities to Environmental and Institutional Shocks” 2013 *American Association for the Advancement of Science*, Boston
- ◆ “The social costs of conservation” 2012 *American Association for the Advancement of Science*, Vancouver, BC
- ◆ “Can reef fisheries take the heat?” 2011 *American Association for the Advancement of Science*, Washington DC
- ◆ “Coastal social-ecological systems: changes, vulnerabilities, and opportunities” *Resilience 2011*, Tempe Arizona
- ◆ “Social-ecological Systems” at 2008 *International Coral Reef Symposium*, USA
- ◆ “Coastal and Marine Social-Ecological Systems” at the *Resilience 2008* conference, Sweden
- ◆ “Human Dimensions of Marine Conservation” at the 2007 *Society for Conservation Biology*, South Africa

Seminars, Presentations, Working Groups, & International Associations

Keynote Talks & Invited Seminars

- 2016-** Invited keynote talk at St. Andrew’s Palace (London) with dinner at Buckingham Palace, seminar at UC Santa Barbara, “Getting Published” workshop in Hawai’i, Pew Fellow’s meeting in Netherlands,
- 2015-** Mote Marine Lab Florida, Pew Fellows Meeting (Puerto Rico); Universidade do Rio Grande do Norte, Brasil, University of Hawai’i; “Getting Published” workshops at JCU and at Western Indian Ocean Marine Science Association Conference, South Africa
- 2014-** Inaugural Professorial Lecture, James Cook University
- 2013-** Invited seminar at Catholic University, Chile; “Getting Published” workshop, Los Cruces Marine Lab, Chile; Invited seminar at Stanford University
- 2012-** Invited Seminars at The Fisheries Center, Univ. British Columbia; Univ. of California Santa Barbara; Scripps Institute for Oceanography; San Diego Zoo; University of Technology Sydney; Keynote talk at CSIRO “Catchment to Coast” conference, Hobart, Tasmania; “Getting Published” workshop, Kenya Marine Fisheries Institute, Mombasa, Kenya
- 2011-** Invited seminar at Univ. of California San Diego; Western Australian Maritime Museum; Invited “Discussant” at 2011 ICEF conference on Interdisciplinarity, Newcastle, UK; “Getting Published” workshop, Western Indian Ocean Marine Science Association Conference, Mombasa, Kenya; Kenyan Fisheries Department, Mombasa, Kenya
- 2010-** Kenyan Fisheries Department, Mombasa; Reef Futures symposium (Australian Academy of Science)
- 2009-** Keynote talk at Western Indian Ocean Marine Science Association (WIOMSA) conference in La Reunion; Invited seminars at The Workshop in Political Theory and Policy Analysis, Indiana University; National Geographic Society; Seychelles Fisheries Authority; Papua New Guinea National Fisheries Authority; Smithsonian Institution; Scripps Institution of Oceanography; San Diego Coral Club; Rotary Club, Townsville; Systems Ecology Department, Stockholm University; University of Queensland Online: <http://www.coralcoe.org.au/events/symposium09/videos/joshcinner.html>
- 2007-** Keynote talk at the East-West Center in Hawaii; Society; Invited seminars at University of Massachusetts; CSIRO; Australian Academy of Science coral reef forum. Online: <http://www.coralcoe.org.au/events/webseminar/iyorvideos/joshcinner.html>

2006- Invited seminar at the Beijer Institute for Ecological Economics, Stockholm, Sweden

Conferences and Presented Papers

- 2016- American Association for the Advancement of Science. Washington DC, USA; International Coral Reef Symposium, Honolulu, USA
- 2015- WIOMSA conference, South Africa
- 2014- Resilience Montpellier, France; IUCN Parks Congress, Sydney; IIFET Brisbane
- 2013- American Association for the Advancement of Science. Boston, USA;
- 2012- American Association for the Advancement of Science. Vancouver, Canada (x2 presentations); International Coral Reef Symposium, Cairns, Australia;
- 2011- American Association for the Advancement of Science. Washington DC, (USA); Resilience 2011- Arizona (USA); WIOMSA conference, Mombasa, Kenya;
- 2010: American Association for the Advancement of Science. Two invited presentations. San Diego, (USA); National Climate Change Adaptation Research Facility, Gold Coast (Australia);
- 2009: American Association for the Advancement of Science. Invited 25 minute presentation. Chicago, (USA); International Marine Conservation Congress Washington DC.
- 2008: Resilience 2008, Stockholm (Sweden); International Coral Reef Symposium, Ft. Lauderdale (USA)
- 2007: Society for Conservation Biology Conference, Port Elizabeth, South Africa;
- 2006: Australian Anthropological Society, Cairns; Australian Coral Reef Society, Mission Beach.
- 2004: International Coral Reef Symposium, Okinawa (Japan).
- 2003: International Tropical Marine Ecosystem Management Symposium. Manila (Philippines).

Professional Working Groups

- ◆ Social Ecological Research Frontiers (SERF) w/ T. McClanahan, N. Graham, K. Brown, T. Daw, and others. Raised funding and organized annual meetings 2007-present (~2 workshops/year)
- ◆ Human dimensions of small-scale fisheries. Stanford Center for Ocean Solutions 2012-13
- ◆ Decision support tools for the Coral Triangle Initiative. NCEAS. 2009-2011

Memberships & Scholarly Alliances

- ◆ American Association for the Advancement of Science
- ◆ Society for Conservation Biology
- ◆ Western Indian Ocean Marine Science Association
- ◆ International Coral Reef Society
- ◆ Resilience Alliance Youth Scholars

References

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