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## Cheryl L. Anderson, PhD

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### Address:

32 Tirangi Rd, Rongotai,  
Wellington 6022 NEW ZEALAND

### Nationality:

United States of America

### Visa status:

New Zealand Resident

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### AREAS OF EXPERTISE

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International Policy, Disaster Risk Reduction Planning and Policy, Climate Adaptation Planning, Climate and Disaster Risk Management, Disaster Planning, Gender-Responsive Climate & Disaster Risk Reduction and Policy, Collaborative Research Design, Implementation, & Evaluation, Socioeconomic Assessment and Monitoring, Asia-Pacific Region

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## ACADEMIC QUALIFICATIONS

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### **Ph.D.**, UNIVERSITY OF HAWAI'I AT MANOA (Honolulu, HI), 2005

Political Science: Public Environmental/Disaster Risk Management Policy. *Dissertation*: Decolonizing Disaster: A Gender Perspective of Disaster Risk Management in the US Pacific Islands (GPA 4.0)

**Master's Degree**, UNIVERSITY OF HAWAI'I AT MANOA (Honolulu, HI), 1996 Urban and Regional Planning, with focus on Community & Environmental Planning (GPA 4.0/A)

**Graduate Ocean Policy Certificate (Minor Degree)**, UNIVERSITY OF HAWAI'I AT MANOA (Honolulu, HI) Courses in Environmental & Coastal Law, Climate Change, Oceanography, Marine Biology, and Marine Economics, 1996 (GPA:4.0/A)

**East-West Center Degree Fellow & Leadership Certificate**, EAST-WEST CENTER (Honolulu, HI), 1996

**Bachelor of Arts Degree.**, POMONA COLLEGE (Claremont, CA) International Relations, 1990; *Thesis*: The Impact of Selectively Controlled Internationalization in the People's Republic of China (Grade: A)

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## PROFESSIONAL EXPERIENCE

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**Director, LeA International Consultants, Ltd, Wellington, New Zealand, 2015- ongoing.** Co-developed the firm in 2015 to work on climate and disaster risk reduction and resilience in the Asia-Pacific region. Expands on experience and collaboration with international agencies and organizations, including the World Bank, US NOAA, ADPC, USAID, WMO, UNISDR, SPREP, and R3ADY Asia-Pacific. Specific projects include: collaboration in development of the Living with Change (LivC) Strategy and Implementation Plan for Tokelau Government (2016-2021); collaboration with the Japan Women's Network for Disaster Risk Reduction in the 2015 Sendai Declaration on Disaster Risk Reduction; gender and environment reviewer for the Indonesia National Disaster Framework coordinated by Disaster Reduction and Resilience Solutions, LLC (2017-2018); coordinating author for the WMO Science Summit, 2017 (BAMS publication, 2020); and author/coordinator of the Tokelau Disaster Risk Reduction, Response, and Resilience Plan (TDR4), endorsed November 2019. Conduct Master's Curriculum Review for the Joint Center for Disaster Research, Massey University (2019) and primary chapter author on **weather warnings** communication with WMO colleagues (in press). Collaborator on **Climate Risk Early Warning System (CREWS) Pacific Small Island Developing States (SIDS) Project** and



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## LANGUAGES

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*English-native/fluent,*  
*Woleaian (western Carolinian) -*  
*high, Mandarin Chinese-medium,*  
*French-medium,*  
*Hawaiian-low, Samoan - low*

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## CERTIFICATIONS

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- ◆ International Review Board (IRB) Human Studies Certification, Collaborative Institute Training Initiative (CITI) – 2016-2019
- ◆ IRB Basic Information Security, CITI, 2016-2019
- ◆ National Incident Command System, ICS-100, Emergency Management Institute completion certificate, 2018
- ◆ American Institute of Certified Planners, 2000 – 2012
- ◆ National Environmental Preservation Act (NEPA) and Historic Preservation training for Emergency Management, April 21-23, 2009. Certified credits from the Emergency Management Institute, Federal Emergency Management Agency.
- ◆ Gender Training of Trainers, November 27- December 1, 2008, Global Gender and Climate Alliance (GGCA). Certified as a Gender Trainer for Climate issues.
- ◆ Benefit-Cost Analysis for Disaster Mitigation, Federal Emergency Management Agency, January 2007 and September 2005.
- ◆ Community Emergency Rescue Training (CERT), 2004
- ◆ Coastal Construction Training, Federal Emergency Management Agency, conducted in conjunction with the ASCE Solutions to Coastal Disasters Conference, 2002.

**establishing National Strategic Plans, Frameworks for Weather, Water and Climate Services and Action Plans for FSM, RMI and Palau** with WMO and NOAA support.

**Director, Hazards, Climate & Environment Program, University of Hawai'i Social Science Research Institute (2004 – 2016); Program Manager, (1996-2004) –** Secured and managed more than \$3.5 million project funds related to research, planning, and policy on climate variability and change, multi-hazard mitigation and disaster risk reduction, resilience, and environmental management. Responsible for plans and research that had implications for State and County budgets and facilities worth more than \$1.2 billion for recovery. Authored plans, technical reports, international policies, and peer-reviewed publications. Participated in local, regional, and international governmental policy advisory committees. As part of understanding native American ancestry, work has focused on integrating gender and indigenous knowledge perspectives in risk reduction and adaptation policies, plans, and actions.

### **Hazards – Disaster Risk Reduction**

Researcher, Project Lead, UH Secretariat for the Asia-Pacific Disaster Risk Reduction and Resilience network (APDR3), 2012-2016. Project work with Universitas Gadjah Mada on **landslide early warning systems**, 2015.

Principal Investigator, Planner, and Project Researcher: County of Kaua'i Multi-Hazard Mitigation and Resilience Plan, 2015 Update.

Finalize plans adopted by highest levels of government to ensure disaster funding, 2001-present. Identified capacity, including actions for **early warning**, risk reduction and resilience in communities. Reviewed sectors and hazards and identify project needs; Developed approved Plan 2003; 2010 Update, May 2009 – August 2010; **2015 Update**, August 2014 – Sept 2015. For the **State of Hawai'i Hazard Mitigation Gap Analysis and Multi-Hazard Mitigation Plan 2004 and Updates 2007 and 2010. State of Hawai'i Disaster Public Awareness Campaign.** Dec 2008 – 2010, and the **University of Hawai'i System-wide Multi-Hazard Mitigation Plan**, September 2005 – December 2010. **Mitigation Survey for Maui Project Impact** (hazard mitigation planning), Nov 1999-Dec 2000.

Planner/Co-Investigator for the **Gender Equality and Disaster Risk Reduction Workshop**, convened 8-10 August 2004. Funded by the US Agency for International Development Office of Foreign Disaster Assistance, the US Department of Agriculture, the National Science Foundation, the East-West Center/Pacific Disaster Center, the Center of Excellence in Disaster Management and Humanitarian Assistance, and the National Oceanic and Atmospheric Administration. Workshop outcomes and Honolulu Call to Action presented in Kobe, Japan to the World Conference in Disaster Reduction, 2005, resulting in gender and traditional knowledge inclusion in the Hyogo Framework for Action, 2005-2015.

- ◆ Participatory Learning and Action Workshop, Ottawa, Canada, June 21-26, 1999. Included field research and intensive practicum.
- ◆ Learning to Lead Collaboratively & Strategic Planning Training, Honolulu, HI October 1998 and December 1999. Training in facilitation and strategic planning.
- ◆ DreamWeaver internet site design and HTML course, 2001 and 1999.
- ◆ Basic ArcView (Geographic Information Systems software) course, ESRI, 1999.
- ◆ SAS, SPSS statistical programs, 1995
- ◆ Pacific Island Disaster Management and Hazard Mitigation Training, sponsored by the US Federal Emergency Management Agency (FEMA) in Guam, 1993.
- ◆ PADI Open Water (1992) and Advanced (1995) Diver

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#### PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

- ◆ External Research Affiliate, Joint Centre for Disaster Research, Massey University, 2013 – ongoing.
- ◆ Gender Expert Affiliate, IUCN, appointed October 2013 - ongoing.
- ◆ Steering Committee, Pacific Islands Climate Change Cooperative, 2010 – 2018; Member, Integrated Science Planning working group, 2010-2012; Member, Cultural Resources and Communities working group, 2010-2012.
- ◆ PaCIS Steering Committee, 2011-2013; Chair, Research & Assessment Working Group, Pacific Climate Information System (PaCIS), 2007-2011.
- ◆ Policy Advisor and Trainer, Global Gender and Climate Alliance, 2008-present.
- ◆ Executive Board Member (Navigator) of the Pacific Risk Management 'Ohana (PRIMO), a

#### Climate

Principal Investigator, “**Understanding Adaptive Capacity to Climate Change in Fishing Communities and on Fisheries Resources in Micronesia**” 2017-2020. “**Designing a Framework to Address Climate Impacts on Cultural Resources**,” for the National Park Service, Sept 2010 – December 2013. “**Integrating Socioeconomic Assessments to Build Community Resilience in Mitigating Drought**,” 2009–2013. **Pacific Regional Integrated Science and Assessment Project (RISA) on climate variability and change**, funded by the National Oceanic & Atmospheric Administration Climate Program Office (Region includes Hawai'i, American Samoa, Northern Mariana Islands, Guam, Palau, Project Manager/ Facilitator /Trainer for the **1997-98 ENSO Impact Assessment on Fiji National Workshop** held in Nadi, Fiji, October 2000 Federated States of Micronesia, and the Marshall Islands), 2005–2012. **ENSO Impacts on Water Resources in the Pacific Island Region Workshop** held in Nadi, Fiji, October 2000. Authored the **ENSO Impact Assessment Manual** developed with support from the Center of Excellence for Disaster Management and Humanitarian Response, NOAA Office of Global Programs, the UNEP, the UNDP, and SOPAC, 1999-2001. Facilitator/Trainer for the **West Africa Climate and Health Interactions Workshop**, Niamey, Niger, 15-19 May 2001. Organizer, Researcher, Author for the **Climate and Coastal Island Communities Assessment**, Workshop convened 5-8 November 2000. Organizer/Facilitator/Trainer for the **Impacts of Climate Change and Variability on Health in the Pacific Region Workshop**, July 2000, Apia, Samoa. Researcher for studies on the **Impacts of ENSO on Pelagic Fisheries**. Researched and Co-authored the **Impact of ENSO Events on Tuna Fisheries in the US-Affiliated Islands**, 1999, and the **Impact of Climate Variability on Pelagic Fisheries in the Pacific Islands**, 1998.

#### Environment

Principal Investigator, Pacific Regional Ocean Partnership, 2011-2016. Development of a partnership to implement the US National Ocean Policy among US Pacific Islands. **Socioeconomic Assessment and Monitoring** project in **Marine Protected Areas** in Thailand, 2010-2015. Collaborator/Researcher, **Hanalei Watershed Resilience Planning Process**, 2010-2017. Project manager to update the **1999 US All Islands Coral Reef Initiative Strategy**. Review of the **Hawai'i State Ocean Resources Management Plan** with colleagues at the University of Hawai'i for the Coastal Zone Management Program, Office of Planning. The **US All Islands Coral Reef Initiative Workshop**, July 1999. The Hawaii State Coastal Zone Management Enhancement Program Five-Year Evaluation and Plan, 1997.

**Principal Investigator and Researcher, Pacific ENSO Applications Climate Center (PEAC), University of Hawai'i Joint Institute for Marine & Atmospheric Research and the Social Science Research Institute (1998-2013)**. Coordinated research activities for the “**Coping with**

collaboration of disaster risk management agencies and organizations in the Pacific Islands region, 2003 – 2019, Senior Advisor, 2019-ongoing. Chairperson, PRIMO Risk Assessment and Post Disaster Evaluation Hui (working group), 2004 – 2009.

- ◆ State Hazard Mitigation Forum, 2004-2012; Chair, Public Awareness committee, 2007-2011.
- ◆ Graduate Faculty Affiliate, University of Hawaii Department of Urban & Regional Planning, August 2006–2020.

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## RECOGNITION & AWARDS

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- ◆ Third Global Congress of Women in Politics and Governance, Gender in Climate Change and Disaster Risk Reduction, 22 October 2008.
- ◆ Reviewer, Nobel Award-winning Intergovernmental Panel on Climate Change 2007 Fourth Assessment Report. National Plan Exemplar, County of Kauai Hazard Mitigation Strategy, FEMA, 2003.
- ◆ Leadership Certificate, East-West Center, 1996.
- Fellowship, East-West Center, Honolulu, HI, USA, 1994-1996.
- ◆ Certificate of Service, Yap State Government, Federated States of Micronesia, 1994.

**“Drought”** funding from the **NOAA Climate Program Office and the National Integrated Drought Information System**, 2009-2013.

Developed the *ENSO Socio-Economic Impact Analysis for the Pacific Islands*, August 1998, to improve drought mitigation and water resource capabilities. Presentations and case studies made at several workshops, 1998–2001; 2004-2009.

**International Consultant on DRR and Climate Change (Roles as Policy Advisor, Workshop Organizer, Facilitator, and Trainer)** (as part of projects, consultancies, positions, 1985-present) Consultant for the **Japan Women’s Network on Disaster Risk Reduction (JWNDRR)**, July 1, 2014 – June 30, 2015. Strategy development for the WCDRR 2015, including the Sixth AMCDRR in Bangkok, 22-26 June 2014 and participation in the First and Second Preparatory Committee meetings for the WCDRR with the Women’s Major Group (WMG). Convener, **Gender and Disaster Workshop**, as part of the 7<sup>th</sup> Australasian Conference on Disaster Reduction, Wellington, New Zealand, 2014. Consultant/Trainer - Vietnam **Gender, Climate, and DRR**, 2010 with WEDO. Consultant/Trainer – Co-trainer for **Gender and Climate Change Strategic Roundtable for the Alliance of Small Island States (AOSIS)** targeting decision-makers, participants and negotiators in international climate conferences held in New York, NY with UNDP for the Global Gender and Climate Alliance (GGCA), May 19, 2009. **Climate Change and Micronesia Challenge: Ways Forward in Collaboration and Adaptation workshop**, 14-17 April 2009, 2009-2010. **Gendered Dimensions of Disaster Risk Reduction and Climate Change Adaptation**, Suva, Fiji, February 2008. Primary author for subsequent publication, released May 2009. **Forum on the Gendered Dimensions of Disaster Risk Reduction and Climate Change Adaptation**, Suva, Fiji, February 18-20, 2008. **Gender and Disaster Sourcebook**, Asia-Pacific regional resources, May 2006, [www.gdnonline.org](http://www.gdnonline.org). **Gender Needs Assessment** in Post-Disaster Recovery in Nanggroe Aceh Darussalam, Indonesia for the United Nations Development Fund for Women, August 2006 – 2008. Consultant/Author/Trainer for the **Pacific Adaptation to Climate Change (PACC)** program based in the Secretariat of the Pacific Regional Environment Programme (SPREP) and developed guidelines for conducting Socioeconomic Assessment for the PACC (SEA-PACC), 2009-2010.

**Hazard Mitigation Planner, Yap, Federated States of Micronesia, 1993-94** Revised disaster plans and wrote grant proposals for the development of hazard mitigation projects, attaining over \$2 million in funding for culturally-relevant hazard mitigation and disaster risk reduction projects for Yap State and FSM National Government: Improved **communications and warning systems, a disaster command post**, food security and recovery gardens, and anchor mooring buoys for protection of coral reef ecosystems.

**US Peace Corps Volunteer, Yap FSM, 1991-1993.** Assessed the socio-economic impact of relief assistance on Yap State and published ***The Impact of Relief Assistance in Yap State and Hazard Mitigation Recommendations*, 1993.**

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## Selected Publications (since 2012)

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**Anderson, Cheryl L.,** Jane Rovins, David M. Johnston, Will Lang, Brian Golding, Brian Mills, Rainer Kaltenberger, Julia Chasco, and Thomas C. Pagano. (2021). Chapter 4: From Impact Forecast to Warning: A Partnership between Communicators and Scientists. Brian Golding (ed.). *Towards the "Perfect" Weather Warning: Bridging disciplinary gaps through partnership and communication*. Springer Nature.

Rushton, A., S. Phibbs, C. Kenney, and **C. Anderson**. (2021). "She'll be right": The place of gendered emotions in disasters. *Gender, Place & Culture*. <https://doi.org/10.1080/0966369X.2021.1892595>.

Rushton, A., S. Phibbs, C. Kenney, and **C. Anderson**. (2021). "I wouldn't trade this country of ours for anything": Place, identity and men's stories of the Kaikōura/Waiau earthquake. *Social and Cultural Geography*. <https://doi.org/10.1080/14649365.2021.1907857>.

Wongbusarakum, S., R. Pomeroy, M. Gorstein, **C. Anderson**, and A. Mawyer. 2020. Mobilizing for Change: Assessing Social Adaptive Capacity in Micronesia Fishing Communities. *Marine Policy*. In Press.

Rushton, Ashleigh, Suzanne Phibbs, Christine Kenney, and **Cheryl Anderson**. 2020. The gendered body politic in disaster policy and practice. <http://doi.org/10.1016/j.ijdrr.2020.101648>.

Ruti, P., O. Tarasova, J. Keller, G. Carmichael, O. Hov, S. Jones, D. Terblanche, **C. Anderson**, et. al. 2020, January. Advancing Research for Seamless Earth System Prediction. Bulletin of the American Meteorological Society.

Rushton, Ashleigh, Christine Kenney, Suzanne Phibbs and **Cheryl Anderson**. 2018. "Boys don't cry: Towards an understanding of men in disasters." 8<sup>th</sup> International Conference on Building Resilience, Lisbon, Portugal.

Organised by the University of Lisbon, the University of Coimbra (Portugal) and the Global Disaster Resilience Centre at the University of Huddersfield (UK), in association with the United Nations Office for Disaster Risk Reduction (UNISDR).

Lefale P.F., H. Diamond, and **C.L. Anderson**. 2018. [Effects of Climate Change on Extreme Events Relevant to the Pacific Islands](#). PACIFIC MARINE CLIMATE CHANGE REPORT CARD Science Review 2018: pp 50-73. Pacific Island Commonwealth Member States, London, UK.

**Anderson, C.,** with F. Haddad, A.R. Rizvi, and C. Tirado. 2015. "Promoting Resilience, Rights, and Resources: Gender-Responsive Adaptation Across Sectors." Chapter 3 in Aguilar, L., M. Granat, and C. Owren, (2015). *Roots for the Future: The Landscape and way forward on gender and climate change*. Washington, DC: IUCN.

McLeod, Elizabeth, B. Szuster, E.L. Tompkins, N. Marshall, T. Downing, S. Wongbusarakum, A. Patwardhan, M. Hamza, **C. Anderson**, S. Bharwani, L. Hansen, and P. Rubinoff. July 2015. "Using expert knowledge to develop a vulnerability and adaptation framework and methodology for application in tropical island communities." *Coastal Management*. Volume 43, Issue 4, July 2015, pages 365-382.

Lefale, P.F. and **C.L. Anderson**. 2014. "Climate Engineering and Small Island States: Panacea or Catastrophe?" Opinion Article. *Geoengineering Our Climate Working Paper and Opinion Article Series*. <http://wp.me/p2zsRk>

Henly-Shepard, S., **C. L. Anderson**, K. Burnett, L.J. Cox, J. Kittinger, and M. Ka'aumoana. Quantifying household social resilience: a place-based approach in a rapidly transforming community. *Natural Hazards*. 07/2014; DOI: 10.1007/s11069-014-1328-8.

Severance, C., R. Franco, M. Hamnett, **C. Anderson**, and F. Aitaoto. 2013. "Effort Triggers, Fish Flow, and Customary Exchange in American Samoa and the Northern Marianas: Critical Human Dimensions of Western Pacific Fisheries." *Pacific Science*, 67(3):383-393.

**Anderson, C.L.,** M. Pisolish, and S. Henly-Shepard. 2012. "Outcomes from Integrating Socioeconomic Assessments to Build Community Resilience in Mitigating Drought in Hawai'i" University of Hawaii Social Science Research Institute: TR2012.

**Anderson, C.L.** 2012. Overview of Climate Risk Reduction in the US Pacific Islands Hazard Mitigation Planning Efforts. University of Hawaii Social Science Research Institute and Pacific Regional Integrated Science and Assessment: TR201103A.

**Anderson, C.L.** 2012. Overview of Climate Risk Reduction in the US Pacific Islands Freely Associated States. University of Hawaii Social Science Research Institute and Pacific Regional Integrated Science and Assessment: TR201103B.

**Anderson, C.L.** 2012. *Analysis of Integrating Disaster Risk Reduction and Climate Change Adaptation in the US Pacific Islands and Freely Associated States.* University of Hawaii Social Science Research Institute and Pacific Regional Integrated Science and Assessment: TR201105.

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## List of Authored Technical Documents

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- *Tokelau Disaster Risk Reduction, Response, and Resilience Plan (TDR4), 2019.*
- *Living with Change (LivC) Strategy: Enhancing the Resilience of Tokelau to the Impacts of Climate Change and Related Hazards, 2017.*
- *Living with Change (LivC) Implementation Plan, 2017.*
- *County of Kauai Multi-Hazard Mitigation and Resilience Plan, 2015 Update. 2015.*
- *Women as a Force for Change: Promoting a Gender and Disaster Training Initiative, 2015.*
- *Understanding Gender-Differentiated Impacts of Disasters and Climate in Samoa. 2013.*
- *Gender and Disaster Risk Reduction – Training Module, 2010.*
- *Socioeconomic Assessment Guidelines for Pacific Adaptation to Climate Change (SEA-PACC), 2010.*
- *Climate Change and the Micronesia Challenge: Ways Forward in Collaboration and Adaptation, 2010.*
- *State of Hawai'i Multi-Hazard Mitigation Plan Update 2010, approved October 4, 2010.*
- *County of Kauai Multi-Hazard Mitigation Plan Update 2009, approved August 13, 2010.*
- *State of Hawai'i Multi-Hazard Mitigation Plan Update 2007, approved October 24, 2007.*
- *Pacific Islands Climate Variability and Change Workshops, Executive Summary, October 2006.*
- *Climate Variability and Change Workshop, American Samoa, September 2005.*
- *Climate Variability and Change Workshop, Republic of the Marshall Islands, 10-12 April 2006.*
- *Climate Variability and Change Workshop, Federated States of Micronesia, 18-19 April 2006.*
- *Climate Variability and Change Workshop, Guam, 24-25 April 2006.*
- *Climate Variability and Change Workshop, Northern Mariana Islands, 27-28 April 2006.*
- *Climate Variability and Change Workshop, Republic of Palau, 1-2 May 2006.*
- *State of Hawaii Multi-Hazard Mitigation Plan, approved 2004.*
- *Kauai County Hazard Mitigation Strategy, September 2003.*
- *National Assessment for the Consequences of Global Climate Change and Variability, Pacific Islands Assessment, 2001. Co-author, Pacific Islands Region.*
- *Extreme Climate Events Program Peer Review Meeting for Indonesia, Philippines, and Vietnam Summary Report, co-author, Asian Disaster Preparedness Center, Bangkok, March 2001.*
- *ENSO Impact Assessment Manual (Draft), 2001, co-author.*
- *Impact of ENSO Events on Tuna Fisheries in the US-Affiliated Islands, 1999.*
- *The US All Islands Coral Reef Initiative Strategy, September 1999.*
- *ENSO Socio-Economic Impact Analysis for the Pacific Islands, August 1998.*
- *Impact of Climate Variability on Pelagic Fisheries in the Pacific Islands, April 1998.*
- *Hawaii Ocean Resources Management Plan Update and Recommendations, 1998.*
- *US Pacific Islands Coastal Hazard Mitigation Workshop Proceedings, 1996.*
- *The Impact of Relief Assistance in Yap State and Hazard Mitigation Recommendations, 1993.*

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## Referees

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AVAILABLE UPON REQUEST.