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Place of Birth: Trinidad and Tobago

Education: BS Atmospheric Sciences (w/Honors.1986). York University. Toronto, Canada
PhD (Geography/Climatology, 1994). University of Colorado, Boulder.

Employment:

- 2017-Present: Senior Scientist (**ST-Chief Scientist**). NOAA Oceanic and Atmospheric Research, Physical Sciences Laboratory Boulder, Colorado USA 80305
- 06/24-12/24: Acting (interim) Director, NOAA Climate Program Office
- 07/16-07/17: Senior Science Advisor for Climate Research NOAA Climate Program Office.
- 07/07-08/16: Director, National Integrated Drought Information System
- 08/10-04/14: Director, Climate and Societal Interactions Division NOAA Climate Program Office
- 06/02-06/07: Deputy Director, Western Water Assessment, CIRES University of Colorado
- 10/98-05/02: Program Director: Regional Integrated Sciences and Assessment NOAA Office of Global Programs. Silver Spring MD.
- 09/94-09/98: Research Scientist III CIRES University of Colorado, Boulder

Selected Professional Activities and Committee Memberships (within the last 5 years):

Professional Societies (recent): American Association for the Advancement of Science, American Geophysical Union (*Fellow*), European Water Resources Association (Diplomate/Fellow), and Natural Hazards Committee; American Meteorological Society (*Fellow*); American Indian Society for Science and Engineering (*Sequoyah Fellow*); International Union of Geodesy and Geophysics Scientific Representative to the World Meteorological Organization (2019-present); International Geographic Union (Commission on Climatology)

International:

Vice-Chair World Meteorological Standing Committee on Climate Services (2024-2028) and Expert Teams (Early Warnings, and National Frameworks for Climate Services)

Drought Resilience+10 International Conference Planning Committee Geneva 2024 (Member)

UN Water Sustainable Development Goal (WASH) US Lead 6.5.1 (Integrated Watershed Management and 6.5.2 (Transboundary Water)

Chair (and Convening Lead Author): International Science Council Report Midterm Review of the Sendai Framework for Disaster Risk Reduction (2022-2023)

UN Convention to Combat Desertification Science-Policy Interface (2022-present)

Co-Chair: WMO Climate Services Information System-Operations (2018-present)

Chair: Sustainable Development Goal 6: U.S. Water and Sanitation (2018-present)

Global Framework on Climate Services Partner Advisory Committee (2017-2022)

Group on Earth Observations US (2020-present)

Global Water Partnership/WMO International Drought Management Program Management

Advisory Group (2017-present)
Global Climate Observing System Steering Committee (2014-2018)
WMO Commission on Climatology (2015-2020);
GEO Natural Hazards Task Team (2020-present)

US/National:

White House Subcommittee on Resilience Science and Technology (Co-chair, 2023-present)
US Interagency Council for Advancing Meteorological Services Climate Services (Co-chair, 2024-)
Interagency Integrated Task Force on Energy and Water (2022-present)
US Delegation and Scientific Advisor WGI, WGII and WGII IPCC Sixth Assessment (2021,2023)
U.S. Water Subcabinet (now Water Policy Committee) Science Advisory Group (2019-present)
U.S. National Drought Resilience Partnership (2015-present) and co-Chair: National Integrated Drought Information System Council (2017-present)
NOAA Forecasting a Continuum of Threats from Weather to Climate (FACETS) (2020-present)
Interagency Working Group on Traditional Ecological Knowledge (2016-present)
University of Colorado Natural Hazards Research and Applications Information Center Advisory Board (2016-present)
White House Task Force on Water, Energy and Food Security (co-Chair 2016-2017);
White House Task Force on Climate and National Security (Adaptation Chair 2016-2017);
International Geographic Union (Commission on Climatology, present)

Congressional Testimonies (Ten formal House and Senate Hearings) House Science and Technology, Water and Transportation, Senate Committee on Agriculture, and on Environment and Public Works. President of the UN General Assembly 2021 “Climate and Land degradation neutrality”: Disaster risk reduction, water resources and land degradation neutrality,

National and International Scientific Assessments:

Convening Lead Author: UN Office for Disaster Risk Reduction (UNDRR) Global Assessment Report (2022, 2024), International Science Council Sendai Mid-Term Assessment (2023), UNDRR Special Report on Drought (2021); IPCC Fifth Assessment Working Group II, US Fourth National Climate Assessment (NCA4) 2018. Adaptation Implementation.

Lead Author: US Fifth National Climate Assessment 2023 (2 chapters International, and the Caribbean, European Union Science for Disaster Risk Management (2021), UNESCO Droughts in the Anthropocene (2019), IPCC AR5 Summary for Policymakers (2014); IPCC Special Report on Extremes Chapters 2, 5 and SPM 2012; UNDRR Global Assessment of Disaster Risk Reduction 2011 and 2019; IPCC Technical Paper Climate and Water Resources 2008; US NCA4 (2018) Water; Caribbean Region; Third National Climate Assessment: Indicators 2014; Global Climate Impacts in the United States 2009; NCA2 Weather and Climate^[17]Extremes in a Changing Climate (2008). IPCC AR4 Working Group II Chapter 7 Adaptation Practices (2007)

Awards and Honorary Lectures: U.S. Presidential Rank Award (2022), American Geophysical Union 2022 Science Ambassador Award; U.S. Department of Commerce Silver (2019, 2014) and Gold Medals (2010); NOAA Administrator’s Award (2009, 2014); American Geophysical Union Gilbert White Lecture Award (2016); Aspen Global Change Institute Walter Orr Roberts

Lecture (2018), CIRES University of Colorado Distinguished Lecture (2017), Global Adaptation Forum Opening Keynote (2016, Rotterdam), National Institute for Science and Technology National Lecture (2015), Gold Medal (Applied Sciences) Trinidad and Tobago National Institute for Science and Technology/Caribbean Academy of Sciences (2013);

Publications:

Author or principal co-author of over 120 publications in peer-reviewed scientific journals, technical reports, book chapters. Co-editor of three books (on Hurricanes, and on Drought), and, National Academies of Sciences, Engineering and Medicine reports, including NASEM 2021: “Advancing United States–Mexico Binational Sustainability Partnerships for SDG17” (2021), and UN Assessments. Keywords: climate science, international climate services, early warning, national security, water resources, disaster risk reduction, science policy

Presentations and Invited Keynotes

Over 200 presentations in public lectures, symposia, workshops, and professional conferences. Of these, 80 invited keynotes and distinguished lectures to diverse audiences, including: the Pontifical Science Academy (2024); The Royal Society (2024); UN Water Conference (2023); UN DRR MidTerm Review, Conferences of Parties (UNDRR, UNFCCC, UNCCD, UNESCO); UN Global Platform for Disaster Risk Reduction; Organization for Economic Cooperation and Development; World Water Forum Ministerial Meetings; Summit of the Americas; InterAmerican Development Bank; The World Bank; European Union ; Caribbean Economic Community (CARICOM) Heads of State; Caribbean Youth Science Forum.; Planetary Security Initiative; World Expositions; The Smithsonian; Chevron Corporation; Western Governors Association; Western States Water Council; State of Colorado Legislature

Adjunct Faculty University of Colorado, Boulder and University of the West Indies, Cave Hill.

Selected Publications: Keywords: disaster risk reduction, drought, climate, water resources, early warning, climate services, science policy

- Pulwarty, R., Kluck, D., Svoboda, M., Todey, Wolozyn, M., R., Webb, and C. Wellenkamp 2025: Going to extremes in climate services: Lessons and practices for managing through the new abnormal *Weather, Climate, and Society* (submitted)
- Jacobs. D et al, 2025: Co-production of climate services. *Frontiers in Climate* (in review)
- Pricope, N., et al 2025: Projected aridification in the 21st century calls for global adaptive solutions and policy action in the present *Nature Communications* (in review)
- Toreti et al...2025: Drought resilience demands urgent actions and unprecedented cooperation *Nature Water* (accepted)
- Vicente-Serrano et al...2024; The United Nations Convention to Combat Desertification Report on Rising Aridity Trends Globally and Associated Biological and Agricultural Implications. *Global Change Biology*. (editorial) December 2024 <https://doi.org/10.1111/gcb.70009>
- UNDRR 2024 Forensics Insights for Future Resilience: Learning from Past Disasters (Lead Authors J. Kirsch-Wood, I Alcantara, and R. Pulwarty) UN Press Geneva Switzerland 75pp
- UNCCD, 2024: The Global Threat of Drying Lands: Regional and global aridity trends and future projections. A Report of the UNCCD Science-Policy Interface Bonn Germany ISBN 978-92-95128 156 pp

UNECE, UNESCO and UN-Water 2024. Progress on Transboundary Water Cooperation: Mid-term status of SDG Indicator 6.5.2, with a special focus on climate change – 2024 . UN 140pp

UNCCD and EU: World Drought Atlas (United States and Caribbean Cases) Toreti, Tsegai et al (eds) European Union, Luxembourg, 2024, doi:10.2760/3842670, JRC 139691. 91 pp.

UNCCD and EU-JRC: World Drought Atlas (US and Caribbean Cases) <https://www.unccd.int/resources/publications/world-drought-atlas> ISSN 1831-9424

Sheffield, J., Yuan, X., Pulwarty, R., and 8 authors 2024: Changes in droughts across scales from local to global. *Nature Reviews* (forthcoming)

Stuart, L., Hobbins, M., Niebuhr, E., Ruane, A, Pulwarty, R and 6 authors et al 2024: Enhancing Global Food Security: Opportunities for the American Meteorological Society Bull. American Meteorol. Soc. 104, 760-777 (online April 2024) <https://doi.org/10.1175/BAMS-D-22-0106.1>

AghaKouchak, A., Huning, L. S., Sadegh, M., Qin, Y., Markonis, Y., Vahedifard, F., Pulwarty, R., Kreibich, H. 2023; Toward impact-based monitoring of drought and its cascading hazards. *Nature Reviews Earth & Environment*, 4, 582-595

Hellmuth, M., et al 2023: Climate Effects on U.S. International Interests Chapter 17 USGCRP Washington DC

Mendez-Lazaro, P, et al: 2023: Fifth National Climate Assessment Chapter 23 U.S. Caribbean. USGCRP Washington DC.

Pulwarty, R., Munns, R.P, and 20 authors, 2023: International Science Council Report on UNDRR MidTerm Review of the Sendai Framework. UN Scientific and Technological Community Major Group Paris France 64pp. (Released March 1, 2023)

Otkin, J., Wolozyn, M., Pulwarty, R., and 9 authors: 2022: Getting ahead of flash drought: From early warning to early action. *Bulletin of the American Meteorological Society* (in press)

Pulwarty, R., Girardet, L., Speck, R., Allis, E., Honore, C., and J. Stander; 2022: Risk to Resilience: Climate change, disasters and the WMO-UNDRR Centre of Excellence. Special Issue on Early Warning to Early Action M. Mizutori and P. Taalas (eds) *World Meteorological Organization Bulletin*, 71, 12-18.

Pulwarty, R., Vogt, J., and W. Erian, et al 2021: Droughts: from risk to resilience. In UNDRR Global Assessment Special Report on Drought UN Press. 141-200pp

Uribe, C., Pulwarty, R., and N. Arenas 2021: The impacts of COVID19 on disaster risk reduction in the Caribbean: A loss and damage assessment. Economic Commission for Latin America and the Caribbean UN Press 34 pp.

Ishiwatari, M., Gallego, E., Wood, M., Cumiskey, L., Pulwarty, R.S., Meerpoel, M., Goretti, A., 2021: Implementing risk management measures in: Casajus Valles, A., Marin Ferrer, M., Poljanšek, K., Clark, I. (eds.), Science for Disaster Risk Management 2020: Acting Today, Protecting Tomorrow, EUR 30183 EN, Publications Office of the European Union, Luxembourg, 2020, ISBN 978-92-76-18182-8, doi:10.2760/571085, JRC114026.

Risi, L, Goodman., S., Pulwarty, R., King, A., and J., Quispe, 2020: An evidence-based collaborative framework for improving predictive capabilities Wilson Center New Security Brief December 2020.

Pulwarty., R 2020: Governance, disasters, and response systems. In Funk, C., and Shukla, S., Drought Early Warning and Forecasting 1st Edition Theory and Practice Elsevier 238 pp.

Pulwarty, R. Easterling, D, J. Adkins 2020: Financial services for climate risk management in the United States. In Lyubchich, V., et al (eds) Quantitative Approaches to Evaluating Climate Change Impacts in Socio-Environmental Systems, Public Health, and

- Insurance Taylor and Francis CRC Press pp. 217-247
- Hoell, A., Parker, B.,Pulwarty et al 2020 Lessons Learned from the 2017 Drought Across the U.S. Northern Great Plains and Canadian Prairies *Bulletin Amer. Meteor. Society* **101**, 1-46 doi: <https://doi.org/10.1175/BAMS-D-19-0272.1>.
- Hewitt, C., E. Allis, S. J. Mason, M. Muth, R. Pulwarty, J. Shumake-Guillemot, A. Bucher, M. Brunet, A. M. Fischer, A. M. Hama, R. K. Kolli, F. Lucio, O. Ndiaye, and B. Tapia 2020: Making society climate-resilient: international progress under the Global Framework for Climate Services. *Bulletin Amer. Meteorol. Society* **101**, 237-252
- Pendergrass, A., Meehl, G., Pulwarty R., et al : 2020: Flash droughts present a new challenge for subseasonal-to-seasonal prediction. *Nature Climate Change* **10**, 191-199
- Allis, E., Hewitt, C.,Pulwarty, R. et al, 2019: The Future of Climate Services. WMO For the 21st Century *WMO Bulletin* **68**, 50-59
- Pulwarty, R., Erian, W., Vogt, J., 2019: Drought: From risk to resilience. In UN Office for Disaster Risk Reduction. Global Assessment Report 2019 UN Press. 171-205
- Vogt, J.V., Naumann, G., Masante, D., Spinoni, J., Cammalleri, C., Erian, W., Pischke, F., Pulwarty, R., Barbosa, P., 2018: Drought Risk Assessment and Management. A conceptual Framework. EUR 29464 EN, European Union, Luxembourg, 2018. ISBN 978-92-79-97469-4, doi:10.2760/057223, JRC113937
- Pulwarty, R., Goodman, S., Risi, L and A. King, 2018, Improving Predictive Capabilities for Security Related Disruptive Water and Weather Events Wilson Center Report 60 pages
- Linkov I, Pulwarty, R 2019 The business case for water infrastructure resilience. OECD and InterAmerican Development Bank (30pages) This White Paper formed the basis of the OECD Report Water -related investment: the case for resilience OECD Paris 12 pp.
- Gould, W.A., ...Pulwarty, R., ..et al 2018: U.S. Caribbean. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA
- Lall, U., ..Pulwarty, R... et al 2018: Water. Chapter 3 In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R. et al (eds)] U.S. Global Change Research Program, Washington, DC, USA. doi: [10.7930/NCA4.2018.CH3](https://doi.org/10.7930/NCA4.2018.CH3)
- Lempert, R., Arnold, J., Pulwarty, R., .et al , 2018: Reducing Risks Through Adaptation Actions. Chapter 28 In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., et al U.S. Global Change Research Program, Washington, DC, USA. doi: [10.7930/NCA4.2018.CH28](https://doi.org/10.7930/NCA4.2018.CH28)
- Linkov, I... Pulwarty, R...et al, 2018 A tiered approach to resilience assessment *Risk Analysis* **38**, 1772-1780
- Wilhite, D., and R. Pulwarty 2017: Drought and water: Lessons drawn, some lessons learned, and the road ahead. In Wilhite D.and R. Pulwarty (eds) Drought and Water Crises: Integrating Science, Management and Policy 2nd Edition CRC Press Taylor and Francis pp. 513-525
- Heim, R, M. Brewer, Pulwarty, R. Wilhite, D, Hayes, M, and M. Sivakumar, 2017: Drought Early Warning and Information Systems. Chapter 17 in Eslamian S.(eds) Handbook of Drought and Water Scarcity: Principles of Drought and Water Scarcity CRC Press pp.305-322.

- Van Lanen, H.A.J., Vogt, J.V., Pulwarty, R., others 2017. Climatological risk: Droughts. In: Poljanšek, K., (Eds.). Science for Disaster Risk Management: Knowing Better and Losing Less: EUR 28034 EN, Publications Office of the European Union, Luxembourg
- Melis, T., S.Jain, Korman, J., R. Pulwarty, 2016, Using Large-Scale Flow Experiments to Rehabilitate Colorado River Ecosystem Function in Grand Canyon: Basis for an Adaptive Climate-Resilient Strategy In: K. Miller (ed) Water Policy and Planning CRC Press.315-346
- Wiener, J, R. Pulwarty, D. Ware, 2016: Bark without bite: The socio-economic context of the 1950s drought. *Weather and Climate Extremes* **11**, 80-94
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- Joyette, A, L. Nurse, R. Pulwarty 2015: Disaster risk insurance and catastrophe models in risk-prone Caribbean islands. *Disasters* **39**, 3, 467–492
- Pulwarty, R. Maia, R. 2015: Adaptation challenges in complex rivers around the world: The Guadiana and the Colorado Basins. *Water Resources Management* **29**, 273-293
- Ralph, F.M., Dettinger, M.D., Pulwarty, R., others 2014, A vision of future observations for western US extreme precipitation and flooding: *Jour. Cont. Water Resources* **153**, 16-32.
- Wilhite, D. M. Sivakumar, R. Pulwarty, 2014: Managing drought risk in a changing climate: The role of National Drought Policy. *Weather and Climate Extremes* **3**, 4-13
- Vaughan, L. J. Furlow, W. Higgins, C. Nierenberg, R. Pulwarty, 2014 US Investments in International Climate Research and Applications *Earth Perspectives* 2014, **1**:23
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- Pulwarty, R., M. Sivakumar, 2014: Information systems in a changing climate. *Weather and Climate Extremes* **3**, 14-21
- Birkmann, J. S. Cutter, ...R. Pulwarty, 2013: Scenarios for vulnerability: Opportunity and constraints in the context of climate change and disaster risk management. *Climatic Change* **121**, 1-16 doi:10.1007/s10584-013-0913-2, online first
- Sivakumar, M. D. Wilhite, R. Pulwarty, R. Stefanski, 2013: The High-Level Ministerial Meeting and Declaration on National Drought Policy (HMNDP). *Bull. Amer. Meteor. Soc.* **94**
- Moss, R, Behar, D....R. Pulwarty, (and 15 authors) 2013: Come hell and high water: The need for practice-relevant climate adaptation science. *Science* **432**, 696-698
- Pozzi, W.....Pulwarty, R...(co-authors), 2013: Towards Global Drought Early Warning Capability: Expanding international cooperation for the development of a framework for global drought monitoring and forecasting *Bull. Amer. Met. Soc.* **94**, 776-785
- Mariotti, A, Schubert,S., Pulwarty, R, Huang, J., Barrie, D, 2013: Advancing drought understanding, monitoring and prediction. *Bull. American. Met. Soc.* **94**, 186-188
- Pulwarty, R., and J. Verdin, 2013: Crafting early warning information systems: the case of drought In Birkmann J(ed) Measuring Vulnerability to Natural Hazards: Disaster Resilient Societies UNU Press Tokyo pp.124-147
- Cardona, O. van Aalst, Birkmann , J, Fordham, M., McGregor, G., Perez , R Pulwarty, R., Schipper, L., Bach Tan Sinh, 2012: Determinants of Risk: Exposure and Vulnerability. Chapter 2 In IPCC Managing the Risks of Extremes and Disaster to Advance Climate Change Adaptation. Cambridge Press pp. 65-108

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- Martinez, R. Hemming, D., Pulwarty, R., and others, 2012: Improving climate risk management at local levels-case studies, good practices and guidelines for WMO Members. In N.Banatiene (ed) Risk Management: Current Issues and Challenges InTech Electronic Books pp. 477-532
- Pulwarty, R, Eilerts, and J. Verdin, 2012: Food security in a changing climate. *Solutions* 3, 31-34
- Pulwarty, R. L. Nurse, U. Trotz, 2010: Caribbean Islands in a Changing Climate *Environment* 52, 16-27
- Kenney, D., A. Ray, B. Harding, R. Pulwarty, and B. Udall, 2010: Rethinking vulnerability on the Colorado River. *J. Contemp. Water Res.* 144, 5-10,
- Pulwarty, R., C., Simpson, and C., Nierenberg, 2009: Regional Integrated Sciences and Assessments (RISAs): Crafting assessments for the long haul. In Knight, Jager, J, (eds) Integrated Regional Assessments of Global Climate Change. Cambridge Press 367-394
- Schubert, S...R. Pulwarty et al, 2009: CLIVAR Project to assess and compare the responses of global climate models to drought-related SST forcing patterns. *J. Climate*, 22, 5251-5272
- Meehl G., Goddard, L.R. Pulwarty,.. et al, 2009: Decadal prediction, can it be skillful?, *Bull. Amer. Meteor. Soc.*, 90, 1467-1485
- Pulwarty, R and N. Hutchinson, 2009: Technical Guidance Manual for Conducting and Mainstreaming Vulnerability and Capacity Assessments in the Caribbean. Caribbean Community Climate Change Centre and CARICOM 60 pp. www.caribbeanclimate.bz
- Brekke, L. Kiang, J., Olsen, R, Pulwarty, R., Raff, D., Turnipseed, P, Webb, R., and K. White, 2009: Climate and Water Resources Management: A Federal Perspective . USGS Circular 1331 Also available online at <http://pubs.usgs.gov/circ/1331> ISBN 978-1-4113-2325-4 65 pp.
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- Pulwarty, R., S., 2007: Communicating Agro-climatological information, including forecasts, for agricultural decisions. In Stigter K., 2007 (ed): Guide to Agrometeorological Practices. CAgM Geneva 40pp. <http://www.wmo.ch/web/wcp/agm/RevGAMP/>
- Adger WN, Agrawala S, Mirza MMQ, Conde C, O'Brien K, Pulhin J, Pulwarty R, Smit. B, Takahashi K. 2007: Assessment of Adaptation practices, options, constraints, and capacity. In Parry et al Climate Change 2007 IPCC Working Group II Fourth Assessment Report Cambridge University Press Cambridge UK 717-743
- Jain, S., Pulwarty, R., and T., Melis, 2006: Environmental and water decision-making in a changing climate. *EOS* 87: 139-140
- Dalrymple, K, and R. Pulwarty, 2006: Sea-level rise implications for the coast of Guyana: Sea walls and muddy coasts. *International Latin American and Caribbean Engineering and Technology (LACCET)*. p.1-10 (refereed paper)
- Pyke, C., and R., Pulwarty, 2006: Elements of effective decision support for water resources management under a changing climate. *Water Resources* 8, 8-10
- Poveda, G., Waylen, P, and R., Pulwarty 2006: Annual and inter-annual variability of the present climate in northern South America and southern Mesoamerica. *PALAEO* 234, 3-27
- Pulwarty, R., Jacobs, K., Dole, R., 2005: The hardest working river: Drought and critical water problems on the Colorado. In D. Wilhite (ed): Drought and Water Crises (1st ed). Taylor

- and Francis Press pp. 249-285
- Wilhite, D., and R., Pulwarty, 2005: Drought, crises and water management. In D. Wilhite (eds): Drought and Water Crises. Taylor and Francis Press 289-298
- Ambrizzi, T., E., Souza, and R. Pulwarty, 2004: The Hadley and Walker regional circulations and associated ENSO impacts on South American seasonal rainfall. In Diaz, H and R., Bradley,(eds): The Hadley Circulation: Past, Present and Future Kluwer Press 203-238
- Pulwarty, R., K., Broad, T., Finan 2003: ENSO forecasts and decision making in Brazil and Peru. In Bankoff, G., et al (Eds.) Mapping Vulnerability: Disasters, Development and People. Earthscan Publ. pp. 83-98
- Pulwarty, R., 2003: Climate and water in the West: Science, information, and decision-making. *Water Resources* **124**, 4-12
- Pulwarty, R., 2003: Transboundary Streamflow Changes. Chapter 47 In Potter T, and B. Colman. (eds.). Handbook of Weather , Climate and Water J. Wiley and Sons pp. 865-884
- Jacobs, K., and R. Pulwarty (2003), Water resource management: Science, planning and decision-making, In Lawford R et al (eds) Water: Science, Policy, and Management: Water Resources Monograph Series vol. 16, AGU, Washington,D. C., doi:10.1029/016WM11.
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- Comfort, L., Wisner, B., Cutter, S., Pulwarty, R., Hewitt, K., Oliver-Smith, A., Peacock, W., Wiener, J., Fordham, M., and F. Kringold, 1999: Reframing disaster policy: The global evolution of vulnerable communities. *Environmental Hazards (Policy Forum)* **1**, 39-44
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- Serreze, M., Clark, M., Armstrong, R., McGinnis, D., and R. Pulwarty: 1999: Characteristics of western U.S. snowpack from SNOTEL data. *Water Resour. Res.* **35**, 2145-2160
- Pulwarty, R., Barry, R., Hurst, C., Sellinger, K., and L., Mogollon, 1998: Precipitation on the Venezuelan Andes. *Meteorology and Atmospheric Physics* **16**, 217-237
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- Pulwarty, R. and K., Redmond, 1997: Climate and salmon restoration in the Columbia River basin: role and usability of seasonal forecasts. *Bull. Amer. Meteor. Soc.* **78**, 381-397
- Pielke, R., Kimpel, J., Pulwarty, R., et al 1997: The U.S. Weather Research Program: Societal Impacts. *Bull. Amer. Meteor. Soc.* **79**, 867-876
- Pulwarty R, and W. Riebsame, 1997: The political ecology of hurricanes in the Caribbean. In

- Diaz, H., Pulwarty, R. (Eds), 1997: Hurricanes: Climate and Socio-economic impacts Springer-Verlag Pub. Heidelberg 307 pp. *Re-released in paperback 2012*
- Diaz, H., and R. Pulwarty, 1997: Decadal Climate Variability, Atlantic Hurricanes, and Societal Impacts: An Overview In Diaz and Pulwarty (eds) p.3-14
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- Pulwarty, R., and Cohen, S; 1984: Possible effects of CO2-induced climate change on the world food system: a review. *Climatological Bulletin* 18, 33-48

Books

- Gjerdi, H., Gunn, T., Mishra, A., Pulwarty, R., and J. Sheffield, GRID-Arendal, Norway 2019: Drought in the Anthropocene. UNESCO UN Press Paris 74 pp.
- Wilhite, D, and Pulwarty R. (eds) 2017: Drought and Water Crises: Integrating Science, Management and Policy 2nd Edition CRC Press Taylor and Francis
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