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Abraham EM, Villalba R. 2008. Society, desertification and climate change in the Argentinean Chilean Central Andes region. *IHDP Update*, 2: 31-35

Aceituno P, Prieto MR, Solari ME, Martínez A, Poveda G, Falvey M. 2009. The 1877-1878 El Niño episode: Associated impacts in South America. *Climatic Change*. 92: 389-416, doi: 10.1007/s10584-008-9470-5

Acuña-Soto R, Stahle DW, Villanueva-Diaz J. 2008. Drought, epidemic, disease, and massive population loss: 1,000 years of record in Mexico. Pp. 183-192. In: *Global Climate Change and Extreme Weather Events: Understanding the contributions to infectious disease emergence*. Institute of Medicine of the National Academies. Washington, D.C. 279 pp.

Altamiro A, Lara A. 2010. Deforestación en ecosistemas templados de la precordillera andina del centro-sur de Chile. *Bosque (Valdivia)* 31(1):53-64. ISSN 0717-9200, doi: 10.4067/S0717-92002010000100007

Altamirano A, Field R, Cayuela L, Aplin P, Rey-Benayas JM, Lara A. 2010. Woody species diversity in temperate Andean forests: the need for new conservation strategies. *Biological Conservation* 143 (2010) 2080–2091, doi:10.1016/j.biocon.2010.05.016

Alvarez A, Fasciolo G, Barbazza C, Lorenzo F, Balanza M. 2008 Impactos en el agua subterránea de un sistema de efluentes para riego. El sistema Paramillo. Lavalle. Mendoza, *Revista de la Facultad de Ciencias Agrarias, UNCuyo*. Tomo XL. Vol. 40, No 2:61-81

Anderson EP, Marengo J, Villalba R, Halloy S, Young B, Cordero D, Gast F, Jaimes E, Ruiz D. 2011. Consequences of Climate Change for Ecosystems and Ecosystem Services in the Tropical Andes. In: *Climate Change and Biodiversity in the Tropical Andes*, S.K. Herzog, R. Martínez, P.M. Jørgensen, H. Tiessen (eds.), Inter-American Institute for Global Change Research (IAI) and Scientific Committee on Problems of the Environment (SCOPE), 1-19 pp.

Aravena JC, Luckman BH. 2009. Spatio-temporal rainfall patterns in southern South America. *International Journal of Climatology*. 29, 14, 2106-2120 doi: 10.1002/joc.1761

- Argollo J, Soliz C, Villalba R. 2004. Potencialidad dendrocronológica de *Polylepis tarapacana* en los Andes Centrales de Bolivia. *Ecología en Bolivia*, 39: 5-24. ISSN 1605-2528
- Ballantyne AP, Baker PA, Chambers JQ, Villalba R, Argollo J. 2011. Regional differences in South American monsoon precipitation inferred from the growth and isotopic composition of tropical trees. *Earth Interactions*, 5 (5) 37, doi: 10.1175/2010EI277.1.
- Barichivich J, Sauchyn DJ, Lara, A. 2009. Climate signals in high elevation tree-rings from the semiarid Andes of north-central Chile: Responses to regional and large-scale variability. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 281:320-333, doi:10.1016/j.palaeo.2007.10.033.
- Beedle MJ, Menounos B, Luckman BH, Wheate R. 2009. Annual Push Moraines as Climate Proxies. *Geophysical Research Letters*, 36, L20501, doi:10.1029/2009GL039533.
- Bogino SM, Villalba R. 2008. Radial growth and biological rotation age of *Prosopis caldenia* Burkart in Central Argentina. *Journal of Arid Environments* 72:16–23, doi:10.1016/j.jaridenv.2007.04.008
- Boninsegna JA, Argollo J, Aravena JC, Barichivich J, Christie D, Ferrero ME, Lara A, Le Quesne C, Luckman BH, Masiokas M, Morales M, Oliveira JM, Roig F, Srur A, Villalba R. 2009. Dendroclimatological reconstructions in South America: A review. *Palaeogeography, Palaeoclimatology, Palaeoecology* 281: 210–228, doi:10.1016/j.palaeo.2009.07.020
- Borrero LA, Borrero K, Garibotti IA, Pallo MC. 2011. Concentraciones de pilas de rocas en la cuenca superior del Río Santa Cruz (Argentina). *Magallania*, 39(2): 193-206
- Buytaert W, Vuille M, DeWulf A, Urrutia R, Karmalkar A, Celleri R. 2010. Uncertainties in climate change projections and regional downscaling: implications for water resources management. *Hydrol. Earth Syst. Sci. Discuss.*, 14, 1247-1258.
- Capps D L, Wiles GC, Clague JJ, Luckman BH. 2011 Tree-ring dating of the nineteenth-century advance of Brady Glacier and the evolution of two marginal lakes, Alaska. *The Holocene*, 21, 1-9
- Casteller A, Christen M, Villalba R, Martínez H, Stöckli V, Leiva JC, Bartelt P. 2008. Validating numerical simulations of snow avalanches using dendrochronology: the Cerro Ventana event in Northern Patagonia, Argentina. *Nat. Hazards Earth Syst. Sci.*, 8, 433-443
- Casteller A, Stoeckli V, Villalba R, Mayer AC. 2007. An evaluation of dendroecological indicators of snow avalanches in the Swiss Alps. *Arctic, Antarctic, and Alpine Research*, 39:218-228, doi: 10.1657/1523-0430(2007)39[218:AEODIO]2.0.CO;2
- Casteller A, Villalba R, Araneo D, Stöckli V. 2011. Reconstructing temporal patterns of snow avalanches at Lago del Desierto, southern Patagonian Andes. *Cold Regions Science Technology*, 67: 68–78, doi:10.1016/j.coldregions.2011.02.001

Casteller A, Villalba R, Mayer A, Stockli V. 2009. Reconstrucción espacial y temporal de la ocurrencia de avalanchas de nieve en los Andes patagónicos utilizando técnicas dendrocronológicas. *Revista Chilena de Historia Natural*, 82: 245-264. doi: 10.4067/S0716-078X2009000200007

Casteller A, Villalba R, Mayer A, Stöckli V. 2009. Dendrochronological reconstruction of spatial and temporal patterns of snow avalanches in the Patagonian Andes. *Reconstrucción espacial y temporal de la ocurrencia de avalanchas de nieve en los Andes patagónicos utilizando técnicas dendrocronológicas*. *Revista Chilena de Historia Natural*, 82: 245-264

Casteller A, Christen M, Villalba R, Stöckli V. 2010. Using dendrochronology to validate numerical simulations of snow avalanches in the Patagonian Andes. In: Stoffel, M., et al (Eds.), *Tree Rings and Natural Hazards: A State-of-the-Arts, Advances in Global Change Research* 41:75-78, Springer.

Cerano-Paredes J, Villanueva-Díaz J, Fulé PZ, Cohen IS, Ávila JGA, Cepeda RDV. 2009. Reconstrucción de 350 años de precipitación para el suroeste de Chihuahua, México (Reconstructing 350 years of precipitation in southeast Chihuahua, México), *Madera y Bosques*, ISSN 1405-0471, 15(2):27-44 27

Cerano Paredes J, Villanueva DJ, Cepeda RDV, Oviedo EHC, Sánchez Cohen I, García VC. 2011. Variabilidad histórica de la precipitación reconstruida con anillos de árboles para el sureste de Coahuila. *Revista Mexicana de Ciencias Forestales* 3(4): 32-46

Cerano Paredes J, Villanueva Díaz J, Cepeda RDV, Gonzáles JM, García VC. 2011. Sequías reconstruidas en los últimos 600 años para el noroeste de México, *Revista Mexicana de Ciencias Agrícolas*, p. 235-249

Cerano Paredes J, González MR, Caciono RT, Saucedo JCR, Ávalos JE, Villanueva Díaz J. 2011. Variabilidad climática y frecuencias importantes para la región de Tancítaro, Michoacán. *AGROFAZ* 11(4): 95-100, ISSN: 1665-8892

Cerano Paredes J, Villanueva-Díaz J, Valdez-Cepeda RD, Arreola-Ávila JG, Constante-García V. 2011. El Niño oscilación del Sur y sus efectos en la parte alta de la cuenca del río Nazas. *Revista Chapingo Serie Ciencias Forestales y del Ambiente XII*: 207-215, ISSN 0186-3231

Cerano-Paredes J, Villanueva J, Fulé PZ. 2010. Reconstrucción de incendios y su relación con el clima para la reserva Cerro El Mohinora, Chihuahua. *Revista Mexicana de Ciencias Forestales* 1 (1):89-103

Christie DA, Boninsegna JA, Cleaveland MK, Lara A, Le Quesne C, Morales MS, Mudelsee M, Stahle DW, Villalba R. 2009. Aridity changes in the Temperate-Mediterranean transition of the Andes since AD 1346 reconstructed from tree-rings. *Climate Dynamics*, 36, 1505–1521, doi:10.1007/s00382-009-0723-4.

Christie DA, Lara A, Barichivich J, Villalba R, Morales MS, Cuq E. 2009. El Niño-Southern Oscillation signal in the world's highest-elevation tree-ring chronologies from the Altiplano, Central Andes, *Palaeogeography, Palaeoclimatology, Palaeoecology*. 281:309–319, doi: 10.1016/j.palaeo.2007.11.013

Clague JJ, Menounos B, Osborn G, Luckman BH, Koch J. 2009. Nomenclature and resolution in Holocene glacial chronologies, *Quaternary Science Reviews* 28:2231–2238, doi:10.1016/j.quascirev.2008.11.016

Cortés Barrera EN, Villanueva DJ, Estrada J, Nieto de Pascual P, Guerra de la Cruz V, Vázquez C. 2010. Utilización de *Taxodium mucronatum* Ten. Para determinar la variación estacional de la precipitación en Guanajuato. *Revista Mexicana de Ciencias Forestales* 1(1): 159-170

Cuevas J, Calvo M, Little C, Pino M, Dassosri P. 2010. Are diurnal fluctuations in streamflow real? *J. Hydrology and Hydraulics* 3: 149-162, doi: 10.2478/v10098-010-0014-0

Cuevas JG, Soto D, Arismendi I, Pino M, Lara A, Oyarzun C. 2006. Relating land cover to stream properties in southern Chilean watersheds: trade-off between geographic scale, sample size and explicative power. *Biogeochemistry* 81(3): 313-329, doi: 10.1007/s10533-006-9043-5

Daniels L, Veblen T, Villalba R. 2007. Use of thin sections to improve age estimates of *Nothofagus pumilio* seedlings. *Ecoscience* 14(1):17-22, doi: 10.2980/1195-6860(2007)14 [17:UOTSTI]2.0.CO;2; doi: 10.4067/SO717-92002010000100007

Demuth M, Pinard V, Petroniro A, Luckman BH, Hopkinson C, Dornes P, Comeau L. 2008. Recent and past-century variations in glacier resources of the Canadian Rocky Mountains: Nelson River system. (Variazioni recenti e secolari delle risorse glaciali nelle Montagne Rocciose canadesi: il sistema del Fiume Nelson) *Terra Glacialis* (Milan), Vol. 11 Special Issue "Mountain glaciers and climate changes in the last century", pp 27-52

Donoso CZ, Lara A, Escobar B, Premoli, Souto C. 2006. Las especies arbóreas de los bosques templados de Chile y Argentina autoecología. Marisa Cuneo Ediciones, pg. 68-91, ISBN: 978-956-7173-27-3

Donoso C, Lara A, Escobar B, Premoli A, Souto C. 2006. *Fitzroya cupressoides* (Molina) I.M Johnst. Pages 68-81 In: C. Donoso (ed) *Las especies arbóreas de los bosques templados de Chile y Argentina: Autoecología*. Marisa Cuneo Ediciones, Valdivia, Chile

Edwards TWD, Birks SJ, Luckman BH, MacDonald GD. 2008. Climatic and hydrologic variability during the past millennium in the eastern Rocky Mountains and northern Great Plains of western Canada. *Quaternary Research* 70:188–197, doi:10.1016/j.yqres. 2008.04.013

Faro B, Saurina M, Gómez ME. 2008. Incorporación de la Conciencia Hídrica en el Sistema Educativo Mendocino: Una experiencia en el marco de la Gestión Integral de los Recursos Hídricos (Incorporating Water Consciousness in the Mendoza Education System: an experience in IWRM) *Medio Ambiente y Urbanización*, Instituto Internacional de Medio

Ferrero ME, Villalba R, 2009 Potential of *Schinopsis lorentzii* for dendrochronological studies in subtropical dry Chaco forests of South America. *Trees*, 23:1275–1284, doi: 10.1007/s00468-009-0369-1

Fisher D, Osterberg E, Dyke A, Dahl-Jenden D, Demuth M, Zdanowicz C, Bourgeois J, Koerner RM, Mayewski P, Wake C, Kreutz K, Steig E, Zheng J, Yalcin K, Goto-Azuma K, Luckman BH, Rupper, S. 2008 The Mt. Logan Holocene- late Wisconsinan isotope record: tropical Pacific-Yukon connections. *The Holocene* 18, 667-677, doi: 10.1177/ 0959683 60 80 92236

Gallego D, Garcia-Herrera R, Prieto R, Peña-Ortiz C. 2008. On the quality of climate proxies derived from newspaper reports – a case study, *Clim. Past*, 4, 11–18, 2008,

Garcia-Herrera R, Diaz HF, Garcia RR, Prieto MR, Barriopedro D, Moyano R, Hernández E. 2008. A Chronology of El Niño Events from Primary documentary Sources in Northern Perú. *Journal of Climate*, 21:1948-1962, doi: 10.1175/2007JCLI1830.1

Garibotti IA, Villalba R. 2007. Técnicas de liquenometría basadas en *Rhizocarpon* subgénero *rhizocarpon* para datar depósitos glaciares en los Andes Patagónicos. *Boletín Geográfico* 30, 60-68.

Garibotti I, Villalba R. 2009. Lichenometric dating using *Rhizocarpon* subgenus *Rhizocarpon* in the Patagonian Andes, Argentina. *Quaternary Research* 71, 271–283, doi:10.1016/ j.yqres. 2009.01.012.

Garibotti IA, Pissolito CI, Villalba R. 2011. Spatiotemporal pattern of primary succession in relation to mesotopographic gradients on recently deglaciated terrains in the Patagonian Andes. *Arctic, Antarctic and Alpine Research*, 43(4): 555-567, doi: 10.1657/1938-4246-43.4.555

Garibotti I, Pissolito C, Villalba R. 2011. Vegetation development on deglaciated rock outcrops from Glaciar Frías, Argentina. *Arctic, Antarctic and Alpine Research*, 43: 35-45, ISSN [1523-0430](#), doi: 10.1657/1938-4246-43.1.35

Garibotti IA, Borrero K, Borrero LA. 2011. Aplicación de técnicas liquenométricas en la arqueología en Patagonia utilizando *Rhizocarpon* subgénero *Rhizocarpon*. In: *Bosques, montañas y cazadores: investigaciones arqueológicas en Patagonia Meridional*. Borrero, L.A. & Borrero K. (eds.), IMHICIHU-CONICET. Editorial Dunken, Buenos Aires. pp. 85-103

Garreaud RD, Vuille M, Compagnucci RH, Marengo J. 2009. Present-day South American climate, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 281:80–195, doi: 10. 1016/j.-palaeo.2007.10.032

Gil-Montero R, Morales M, Villalba R. 2010. Población y economía en los Andes: las crisis de subsistencia en Talina entre los siglos XVII y XX. *Surandino Monográfico* 1(2): 1-32. UBA, Buenos Aires. ISSN 1851-9091

Gil-Montero R, Villalba R. 2008. Las crisis del siglo XIX. En: Gil Montero, R. La construcción de Argentina y Bolivia en los Andes meridionales. Población, tierras y ambiente en el siglo XIX. Prometeo Libros, pp. 139-162, ISBN: 9789875742451

Girardin MP, Sauchyn D. 2008. Three centuries of annual area burned variability in northwestern North America inferred from tree rings. *The Holocene* 18(2):205–214. doi: 10.1137/0959683607086759

González, M, Lara A, Urrutia R, Bosnich J. 2011. Cambio climático y su impacto potencial en la ocurrencia de incendios forestales en la zona centro-sur de Chile (33° - 42° S). *Bosque* 32(3): 215 – 219, doi: 10.4067/S0717-92002011000300002

Grau HR, Carilla J, Gil-Montero R, Villalba R, Araoz E, Masse G, Membiela M. 2010. Environmental history and forest regeneration in a degraded valley in the subtropical Argentina cloud forest life zone. In: *Tropical Montane Cloud Forests: Science for Conservation and Management*, L.A. Bruijnzeel, F.N. Scatena, L.S. Hamilton. (eds.), Cambridge University Press, 597-604

Grau HR, Carilla J, Gil-Montero R, Araoz E, Villalba R, Masse G, Membiela M. 2006. Environmental history and forest regeneration in a degraded valley in the subtropical Argentina cloud forest life zone. In: *Mountains in the Mist. Ecology and Conservation of Tropical Montane Cloud Forests*. J. Juvik, F. Scatena, S. Brujnejk (Eds). University of Hawaii Press

Hertel D, Therburg A, Villalba R. 2008. Above- and below-ground response by *Nothofagus pumilio* to climatic conditions at the transition from the steppe–forest boundary to the alpine treeline in southern Patagonia, Argentina. *Plant Ecology & Diversity*, 1: 21–33, doi: 10.1080/17550870802257026

Ingram J, Stone J, Confalonieri U, Garvin T, Jutro P, Klink C, Luckman B H, Noellemeyer E, Toledo PM. 2007. Delivering Global Environmental Change Science to the Policy Process. In: Tiessen, H, Brklacich, M., Breulmann G. and Menezes, R. S. C. (eds) “Linking the Sciences of Environmental Change to Society and Policy - Lessons from 10 years of research networks in the Americas” SCOPE 68, Island Press, Washington D.C. p. 35-44.

Jansen E, Overpeck J, Briffa KR, Duplessy JC, Joos F, Masson-Delmotte V, Olago D, Otto-Bliesner B, Peltier WR, Rahmstorf S, Ramesh R, Raynaud D, Rind D, Solomina O, Villalba R, Zhang D. 2007. Palaeoclimate. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 433-495

Jones PD, Briffa KR, Osborn TJ, Lough JM, van Ommen TD, Vinther BM, Luterbacher J, Wahl ER, Zwiwers FW, Mann ME, Schmidt GA, Ammann CM, Buckley BM, Cobb KM, Esper J, Goosse H, Graham N, Jansen E, Kiefer T, Kull C, Küttel M, Mosley-Thompson E, Overpeck JT, Riedwyl N, Schulz M, Tudhope AW, Villalba R, Wanner H, Wolff E, Xoplaki E. 2009. High-resolution palaeoclimatology of the last millennium: a review of current status and future prospects. *The Holocene* 19, 3–49. doi: 10.1177/09596836 08098952

Labraga JC, Villalba R. 2009. Climate in the Monte Desert: Past trends, present conditions, and future projections. *Journal of Arid Environments*, 73, 154–163, doi:10.1016/j.jaridenv.2008.03.016

Lara A, Little C, Donoso C, Moreno C. 2010. Investigación de largo plazo en Chile. *Revista Chilena de Historia Natural*, 83: 617-618

Lara A, Little C, Urrutia R, McPhee J, Álvarez-Garretón C, Oyarzún C, Soto D, Donoso P, Nahuelhual L, Pino M, Arismendi I. 2009. Assessment of Ecosystem Services as an Opportunity for the Conservation and Management of Native Forests in Chile. *Forest Ecology and Management* 258:415–424. doi: 10.1016/j.foreco.2009.01.004

Lara A, Solari ME, Prieto MR, Peña MP. 2012. Reconstruction of vegetation cover and land use c. 1550 and their change towards 2007 in the Valdivian Rainforest Ecoregion of Chile (35° – 43° 30' S). *Bosque* 33(1): 13-23, doi: 10.4067/S0717-92002012000100002

Lara A, Villalba R, Urrutia R. 2008. A 400-year tree-ring record of the Puelo River streamflow in the Valdivian rainforest Eco-region, Chile. *Climatic Change* Vol. 86:331-356. doi: 10.1007/s10584-007-9287-7

Lara A, Urrutia R. 2010. The growing significance of conservation. The Chilean experience. In: J. Levitt (Ed.) *Conservation Capital in the Americas*. Lincoln Institute of Land Policy, Cambridge, MA. USA. Pp 5-14

Lara A, Donoso C, Escobar B, Rovere A, Premoli A, Soto D, Bannister, J. 2006. *Pilgerodendron uviferum* (D. Don) Florin. In: C Donoso (ed): *Las especies arbóreas de los bosques templados de Chile y Argentina*. Autoecología. Marisa Cuneo Ediciones, Valdivia, Chile, p. 82-91

Lara A, Little C, Nahuelhual L, Urrutia R, Díaz I. 2011. Lessons, challenges and policy recommendations for the management, conservation and restoration of native forests in Chile. In Figueroa, E (Ed). *Biodiversity Conservation in the Americas: Lessons and Policy Recommendations*. Universidad de Chile, Fundación Domeyko, Governo do Estado Sao Paulo. Servicios Graficos Besegra Ltda, Santiago, Chile. Pp. 259 - 299 , 506 p

Lara A, Reyes R, Urrutia R. 2006. Bosques Nativos. In pages 107-139 Instituto de Asuntos Públicos, Centro de Análisis de Políticas Públicas, Universidad de Chile (eds). Santiago. Informe País: Estado del Medio Ambiente en Chile 2005. Santiago, Chile

Lara A, Urrutia R. 2011. Servicios ecosistémicos de los bosques nativos en Chile: Estado del arte y desafíos. In: Laterra, P., E. Jobbágy and J. Paruelo (Eds.). *Servicios Ecosistémicos: Conceptos, Herramientas y Aplicaciones*. Ediciones INTA. Buenos Aires, Argentina (Invited chapter, Published). Pp 69-84

Lara A, Urrutia R. A Chilean perspective on the challenges ahead. In: J. Levitt (Ed.) *Conservation Capital in the Americas*. Lincoln Institute of Land Policy, Cambridge, MA.

Lara A, Echeverría C, Thiers O, Huss E, Escobar B, Tripp K, Zamorano C, Altamirano A. Restauración ecológica de coníferas longevas: el caso de Alerce (*Fitzroya cupressoides*) en el sur de Chile. En: González-Espinosa, M., Rey-Benayas J.M., y Ramírez-Marcial, N. *Restauración de bosques en América Latina*. Ediciones Mundi-Prensa, Madrid, España

Leiva JC, Espizua LE, Iturraspe RJ, Masiokas M, Norte FA, Villalba R. 2008. The response of the Argentinean glaciers to the climate of the XX and XXI centuries. *Terra Glacialis – Special Edition*, 179-192.

Le Quesne C, Acuña C, Boninsegna J, Rivera A, Barichivich J. 2008. Long-term glacier variations in the Central Andes of Argentina and Chile, inferred from historical records and tree-ring reconstructed precipitation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, doi: 10.1016/j.palaeo.2008.01.039

Little C, Lara A. 2010. Restauración ecológica para aumentar la provisión de agua como un servicio cosistémico en cuencas forestales del centro-sur de Chile. *Bosque* 31:(3) 175-178, ISSN 0717-9200

Little C, Lara A, McPhee J, Urrutia R. 2009. Revealing the impact of forest exotic plantations on water yield in latge scale watersheds in South-central. Chile. *Journal of Hydrology*: 374: 162-170, doi:10.1016/j.jhydrol.2009.06.011

López L, Villalba R. 2010. Climate influences on the radial growth of *Centrolobium microchaete*, a valuable timber species from the tropical dry forests in Bolivia. *Biotropica*, 43(1): 41–49. DOI: 10.1111/j.1744-7429.2010.00653.x

Luckman BH. 2010 *Geoscience of Climate and Energy* 6: “Tree Rings as Temperature Proxies” *Geoscience Canada* , 37, 1, 1-6

Luckman BH. 2008 Forty years of rockfall accumulation at the Mount Wilcox Site, Jasper National Park, Alberta, Canada. *Geographica Polonica*, 81, 1, 79-91

Luckman BH. 2010. Dendrogeomorphology and snow avalanche research, In Markus Stoffel,Michelle Bollschweiler, David R. Butler and Brian H. Luckman (eds) *Tree rings and Natural Hazards: a state-of-the-art* Springer, *Advances in Global Change Research* , Vol 41, 27-34

Luckman BH. 2007. Dendroclimatology. In: Scott Elias (ed.) *Encyclopedia of Quaternary Science*, Elsevier, Volume 1 pp 465-475

Luckman BH. 2006. Documenting, understanding and projecting changes in the hydrological cycle in the America Cordillera, IAI Newsletter issue 2, 2006 (October), p.6-8

Luckman BH. 2007. The CRN experience: A view from the mountains. In Tiessen, H, Brklacich, M., Breulmann G. and Menezes, R. S. C. (eds) "Linking the Sciences of Environmental Change to Society and Policy - Lessons from 10 years of research networks in the Americas" SCOPE 68, Island Press, Washington D.C. p. 119-128

MacDonald GM, Stahle DW, Villanueva Diaz J, Beer N, Busby SJ, Paredes JC, Cole JE, Cook ER, Endfield G, Gutierrez-Garcia G, Hall B, Magana V, Meko DM, Méndez-Pérez M, Sauchyn DJ, Watson E, Woodhouse CA. 2008. Climate Warming and 21st-Century Drought in Southwestern North America. *Eos*, Vol. 89, No. 9 , 82 – 84.

Masiokas MH, Villalba R, Luckman BH, Le Quesne C, Aravena JC. 2006. Snowpack variations in the central Andes of Argentina and Chile, 1951-2005: Large-scale atmospheric influences and implications for water resources in the region. *Journal of Climate*, 19: 6334-6352

Masiokas M, Villalba R, Luckman B, Lascano M, Delgado S, Stepanek P. 2008. 20th-century glacier recession and regional hydroclimatic changes in northwestern Patagonia. *Global and Planetary Change*, 60:85-100, doi:10.1016/j.gloplacha.2006.07.031

Masiokas MH, Villalba RD, Christie A, Betman E, Luckman BH, Le Quesne C, Prieto MR, Mauget S. 2012. Snowpack variations since AD 1150 in the Andes of Chile and Argentina (30°–37°S) inferred from rainfall, tree-ring and documentary records, *J. Geophys. Res.*, 117, pg-1-11, doi:10.1029/2011JD016748

Masiokas MH, Villalba R, Luckman BH, Mauget, S. 2010. Intra- to multi-decadal variations of snowpack and streamflow records in the Andes of Chile and Argentina between 30° and 37°S. *Journal of Hydrometeorology* 11, 822-831, doi: 10.1175/2010JHM1191

Masiokas MH, Luckman BH, Villalba R, Delgado S, Skvarca P, Ripalta A. 2009. A. Little Ice Age fluctuations of small glaciers in the Monte Fitz Roy and Lago del Desierto areas, south Patagonian Andes, Argentina. *Palaeogeography, Palaeoclimatology, Palaeoecology* 281:351–362, doi:10.1016/j.palaeo.2007.10.031

Masiokas M, Luckman BH, Villalba R, Ripatta A, Rabassa J. 2010. Little Ice Age fluctuations of Glaciar Río Manso in the north Patagonian Andes of Argentina. *Quaternary Research* 73:96–106, doi:10.1016/j.yqres.2009.08.004

Masiokas MH, Rivera A, Espizua LE, Villalba R, Delgado S, Aravena JC. 2009. Glacier fluctuations in extratropical South America during the past 1000 years. *Palaeogeography, Palaeoclimatology, Palaeoecology* 281 (3-4), 242-268, doi:10.1016/j.palaeo.2009.08.006

Masiokas MH, Villalba R, Luckman BH, Montaña E, Christie D, Betman E, Le Quesne C, Mauget S. 2012. Recent and historic Andean snowpack and streamflow variations and vulnerability to water shortages in central-western Argentina. *Water Encyclopedia, Climate Vulnerability Chapter*, Elsevier Sciences

Maurer M, Menounos B, Luckman BH, Osborn GD, Clague JJ, Smith IR, Atkinson N. 2012. Late Holocene glacier expansion in the Cariboo and northern Rocky Mountains, British Columbia, Canada. *Quaternary Science Reviews*, vol. 51, pg. 71-80, doi.org/10.1-16/j.quascirev.2012.07.023

Menounos B, Clague JJ, Osborn G, Luckman BH, Lakeman TR, Minkus R. 2008. Western Canadian glaciers advance in concert with climate change ca 4.2 ka. *Geophysical Research Letters* 35, L07501, doi: 10.1029/2008GL033172

Menounos B, Clague JJ, Osborn G, Luckman BH. 2009. Latest Pleistocene and Holocene Glacier Fluctuations in the Western Canada. *Quaternary Science Reviews* 28: (21-22) 2049–2074, doi: 10.1016/j.quascirev.2008.10.018

Morales M, Christie DA, Villalba R, Argollo J, Pacajes J, Silva J, Alvarez CA, Llanabure JC, Soliz C. 2012. Precipitation changes in the South American Altiplano since 1300AD reconstructed by tree-rings. *Climate of the Past* 8, 653–666, doi:10.5194/cp-8-653-2012

Morales M, Villalba R. 2009. Anillos de árboles como evidencias de ataques de insectos defoliadores en la Patagonia. *Boletín de la Sociedad Entomológica argentina*, 20 (1-2), 13-14, ISBN 1666-4612.

Morales MS, Villalba R. 2012. Influence of precipitation pulses on long-term *Prosopis ferox* dynamics in the Argentinean intermontane subtropics. *Oecologia* 168: 381–392, doi: 10.1007/s00442-011-2087-9

Morales MS, Villalba R, Boninsegna JA. 2005. Climate, land-use and *Prosopis ferox* recruitment in the Quebrada de Humahuaca, Jujuy, Argentina. *Dendrochronologia*. 22(3): 169-174, doi:10.1016/j.dendro.2005.05.004

Morales MS, Villalba R, Grau HR, Paolini L. 2004. Rainfall controlled tree growth in high elevation subtropical treelines. *Ecology*, 85(11): 3080-3089

Morales M, Villalba R. 2006. Climatic and anthropogenic influences on the dynamics of *Prosopis ferox* forests in the Quebrada de Humahuaca, Jujuy, Argentina. In: E.M. Spehn, M. Liberman and C. Körner (eds.), *Land use change and mountain biodiversity*. Taylor and Francis. CRC Press, Florida, USA, pag. 275-282

Moy C M, Moreno P I, Dunbar R B, Francois JP, Kaplan MR, Villalba R, Haberzettl T. 2009. Climate change in southern South America during the last two millennia. In: *Past Climate Variability in South America and Surrounding Regions: From the Last Glacial Maximum to the Holocene*. F. Vimeux, F. Sylvestre, and M. Khodri, (Eds.). Springer Netherlands, ISSN1571-5299, 14: 353-393, doi: 10.1007/978-90-481-2672-9_15

Moya J, Lara A. 2011. Cronologías de ancho de anillos de Queñoa (*Polylepis tarapacana*) para los últimos 500 años en el Altiplano de la región de Arica y Parinacota, Chile. *Bosque* 32(2): 165-173

Mundo I, El Mujtar VA, Perdomo MH, Gallo LA, Villalba R, Barrera MD. 2010. *Austrocedrus chilensis* growth decline in relation to drought events in northern Patagonia, Argentina. *Trees*, 24: 561-570. DOI 10.1007/s00468-010-0427-8.

Mundo IA, Masiokas MH, Villalba R, Morales MS, Neukom R, Le Quesne C, Urrutia RB, Lara A. 2012. Multi-century tree-ring based reconstruction of the Neuquén River streamflow, northern Patagonia, Argentina. *Climate of the Past Discussions* *Climate of the Past*, 8, 815–829, doi:10.5194/cp-8-815-2012

Neukom R, Prieto MR, Moyano R, Luterbacher J, Pfister C, Villalba R, Jones PD, Wanner H. 2009. An extended network of documentary data from South America and its potential for quantitative precipitation reconstruction back to the 16 century. *Geophysical Research Letter*, Vol. 36, L12703, doi: 10.1029/2009GL038351

Neukom R, Luterbacher J, Villalba R, Küttel M, Frank D, Jones PD, Grosjean M, Wanner H, Aravena JC, Black DE, Christie DA, D'Arrigo R, Lara A, Morales M, Soliz-Gamboa C, Srur A, Urrutia R, von Gunten L. 2010. Multiproxy summer and winter surface air temperature field reconstructions for southern South America covering the past centuries. *Climate Dynamics*, DOI: 10.1007/s00382-010-0793-3

Neukom R, Luterbacher J, Villalba R, Küttel M, Frank D, Jones PD, Grosjean M, Esper J, Lopez L, Wanner H. 2010. Multi-centennial summer and winter precipitation variability in southern South America, *Geophys. Research Letters*, Vol. 37, doi:10.1029/2010GL043680

Nielsen AE. 2002. Asentamientos, conflicto y cambio social en el Altiplano de Lípez (Potosí, Bolivia). *Revista Española de Antropología Americana* 32:179-205, ISSN: 0556-6533

Orlove B, Weigand E, Luckman BH (eds) 2008 “Darkening Peaks: Glacier Retreat, Science and Society”, University of California Press, 272 p

Paolini L, Villalba R. 2010. Rainfall up, mountain down? In: Stoffel, M., et al (Eds.), *Tree Rings and Natural Hazards: A State-of-the-Arts*, *Advances in Global Change Research* 41:121-125, Springer.

Pederson GT, Gray ST, Woodhouse CA, Betancourt JL, Fagre DB, Littell JS, Watson E, Luckman BH, Graumlich LJ. 2011. The unusual nature of recent snowpack declines in the North American Cordillera, *Science*, 333, 332-335, doi: 10.1126/science.1201570

Pederson GT, Whitlock C, Watson E, Luckman BH, Graumlich L. 2007. Paleo-Perspectives on Climate and Ecosystem Change. Chapter 10 in Tony Prato and Dan Fagre (eds): *Sustaining Rocky Mountain Landscapes: Science, Policy and Management of the Crown of the Continent Ecosystem*, Browse Books, RFF (Resources for the Future) Press, Washington D.C. 151-170

Pérez Valdivia CA, Sauchyn D. 2010. Tree-Ring Reconstruction of Groundwater Levels in Southern Alberta, Canada: Long Term Hydroclimatic Variability. *Dendrochronologia*, doi: 10.1016/j.dendro.2010.09.001

Piovano E, Villalba R, Leroy S. 2006. Holocene environmental catastrophes in South America: From the lowlands to the Andes. *Quaternary International*, 158: 1-3, doi: 10.1016/j.quaint.2006.05.011

Prieto MR. 2007 .ENSO Signals in South America: Rains and Floods in the Paraná River region during colonial times. *Climatic Change* 83:39–54, doi: 10.1007/s10584-006-9188-1

Prieto MR. 2011. Las inundaciones en el río Paraná durante el período colonial. Impacto socio-cultural y respuestas adaptativas. *Revista de la Junta Pcial de Estudios Hcos de Santa Fe*, N° 68 Sta. Fe.

Prieto MR, Abraham E, Dussel P. 2008. Transformaciones de um ecosistema palustre. La gran ciénaga del Bermejó-Mendoza, siglos XVIII y XIX. *ultquina* 17:147-164. ISSN, 0327-9375

Prieto MR, García-Herrera R. 2009. Documentary sources from South America: Potential for climate reconstruction. *Palaeogeography, Palaeoclimatology, Palaeoecology* 281:196–209, doi:10.1016/j.palaeo.2008.07.026.

Prieto MR, Rojas F. 2012. Documentary evidence for changing climatic and anthropogenic influences on the Bermejo Wetland in Mendoza, Argentina, during the 16th–20th century *Climate of the Past Discussions* 8, 951-961

Prieto MR. 2007. Variaciones y anomalías climáticas y su impacto socioeconómico en Mendoza en los últimos 500 años. A. Roig and M.C. Satlari (comp.). Mendoza, Identidad, Educación y Ciencias. T. III. Ediciones Culturales Mendoza, Mendoza

Prieto MR. 2009. The Floods of the Paraná River During the Spanish Colonial Period: Impacts and Responses. Christof Mauch and Christian Pfister (ed.) *Natural Disasters, Cultural Responses: Case Studies Toward a Global Environmental History* Rowman & Littlefield Publishers, Inc. p. 285-303

Prieto MR. 2010. Climate Anomalies and Epidemics in South America at the end of the Colonial Period. In : *Living Standards in Latin American History*. Ricardo Salvatore, John Coatsworth and Amilcar Challu (ed.). David Rockefeller Center for Latin America Studies (DRCLAS), Harvard University

Prieto MR, Abraham EM, Dussel P. Transformaciones de un ecosistema palustre. La gran ciénaga del Bermejo- Mendoza, siglos XVIII y XIX. In: *Ocupar y explotar la tierra. Procesos ambientales en la Historia Latinoamericana*, M Folchi et al (comp.). Centro de Investigaciones Diego Barros Arana, Dirección de Archivos, Bibliotecas de Chile- PNUMA, Chile

Rodrigues R, Haarsma RJ, Campos EJD, Ambrizzi T. 2011. The impacts of inter-El Niño variability on the Tropical Atlantic and Northeast Brazil climate, *Journal of Climate*, doi: 10.1175/2011JCLI3983.1

Roig FA, Palmer JG, Cook ER, Boswijk G, Stahle D, Villalba R, D'Arrigo RD. 2010. Longues séries dendrochronologiques dans l'hémisphère Sud. In: S. Payette, L. Filion (eds.) *La Dendroécologie : Principes, méthodes et applications*. Presses de l'Université Laval, Québec, Québec. p. 647-682.

Roig FA, Villalba R. 2008. Understanding climate from Patagonian tree rings. In: Rabassa, J. (ed.), *Late Cenozoic of Patagonia and Tierra del Fuego*. *Developments on Quaternary Science Series*, 11, 411-435, ISSN 1571-0866, Elsevier, Amsterdam

Rubio A, McPhee J. 2010. Patterns of spatial and temporal variability in streamflow records in South-Central Chile in the period 1952-2003, *Water Resources Research* 46: W05514, 16 PP, doi:10.1029/2009WR007982

Sánchez Cohen I, Cerano Paredes J, Villanueva Díaz J, Constante G, Estrada JA, González JL, Cornejo EO. 2009. Evaluación para la conservación de la cubierta vegetal en la parte alta de la cuenca del Nazas-Aguanaval mediante el sistema de ayuda para la toma de decisiones (DSS). *Agrofaz* 9(3): 55-62

Sánchez-Cohen I, Ojeda-Bustamante W, Chebhouni G, Orona-Castillo I, Villanueva-Díaz J, González-Barrios JL, González-Cervantes G. 2008. Variabilidad climática en México: algunos impactos hidrológicos, sociales y económicos. *Ingeniería Hidráulica en México* 23(4): 5-24

Sánchez C. 2007. Reconstrucciones paleoclimáticas con anillos de árboles en la cuenca Nazas-Aguanaval de la región hidrológica 36. Pp. 117-144. In I. Sánchez C., G Chebhouni, *Procesos hidrológicos en zonas áridas y semiáridas: de la investigación a la acción*. Libro científico No. 3, INIFAP CENID RASPA. Gómez Palacio, Durango. 197 pp

Santillán-Hernández M, Cornejo-Oviedo EH, Villanueva-Díaz J, Cerano-Paredes J, Valencia-Manzo S, Capó-Arteaga MA. 2010. Potencial Dendroclimático de *Pinus pinceana* Gordon en la Sierra Madre Oriental (Dendroclimatic potential of *Pinus pinceana* Gordon in the Sierra Madre Oriental), *Madera y Bosques* 16 (1):17-30

Sauchyn DJ, Lapp S. 2008. Climate Change Scenarios for the Prairies. *Advances in Pork Production*, Volume 19: 129-136.

Sauchyn DJ, Vanstone J, Perez-Valdivia, C. 2011. Modes and forcing of hydroclimatic variability in the Upper North Saskatchewan river basin since 1063. *Canadian Water Resources Journal*, 36(3): 205

Sauchyn DJ, Pietroniro A, Demuth M. 2008. Upland Watershed Management and Global Change – Canada's Rocky Mountains and Western Plains. Chapter 3 In Garrido, A and Dinar, A. (eds) "Mountains, valleys and flood plains: managing water resources in a time of global change", Routledge. pp. 32-49

Sauchyn DJ, Diaz H, Kulshreshtha, S. (editors). 2010. *The New Normal: The Canadian Prairies in a Changing Climate*. CPRC Press, Regina, SK. ISBN: 978-0-88977-231-1

Sauchyn DJ, Kulshreshtha, S. 2008. *The Prairies*. In: "From Impacts to Adaptation: Canada in a Changing Climate 2007", edited by D.S. Lemmen, F.J. Warren, J., Lacroix and E. Bush; Government of Canada, Ottawa, ON, Chapter 7, ISBN: 987-0-662-05176-3

Sauchyn DJ. 2007. *Climate Change Impacts on Agriculture in the Prairies Region*. Pages 80-93 In Wall, E. B. Smit and J. Wandel (eds.) "Farming in a Changing Climate: Climate Agricultural Adaptation in Canada", UBC Press, Vancouver, ISBN: 9780774813938, Chapter 6

Sauchyn DJ, Caicedo MV. 2007. *Holocene Climate Change*. In Thraves, B. et al. (eds.) *Saskatchewan: Geographic Perspectives*. CPRC Press, Regina, pp. 57-61

Skvarca P, Naruse R. 2006. Overview of the ice-dam formation and collapse of Glaciar Perito Moreno, southern Patagonia, in 2003/04. *Journal of Glaciology* 52 (177), 318-320

Soliz C, Villalba R, Argollo J, Morales M, Christie D, Moya J, Pacajes J. 2009. Spatio-temporal variations in *Polylepis tarapacana* radial growth across the Bolivian Altiplano during the 20th century, *Paleoecology, Paleoclimatology and Paleo hydrology*, 281: 296–308, doi:10.1016/j.palaeo.2008.07.025

Soruco A, Vincent C, Francou B, Ribstein P, Berger T, Sicart JE, Wagnon P, Arnaud Y, Favier V, Lejeune Y. 2009. Mass balance of Glaciar Zongo, Bolivia, between 1956 and 2006, using glaciological, hydrological and geodetic methods. *Annals of Glaciology*, Volume 50, Number 50, 1-8

Srur AM, Villalba R. 2009. Annual growth rings of the shrub *Anarthrophyllum rigidum* across Patagonia: Interannual variations and relationships with climate. *Journal of Arid Environments* 73:1074–1083, doi:10.1016/j.jaridenv.2009.06.008

Srur AM, Casteller A, Morales M, Mundo I, Rodríguez M, Suarez ML, Villalba R. 2011. *Climate influences on forest dynamics in the Patagonian Andes, Argentina*. *Mountain Forests in a Changing World: Realizing values, addressing challenges*. Published by FAO with the support of the Swiss Agency for Development and Cooperation, pg 65

Srur AM, Villalba R, Villagra P, Hertel D. 2008. Influencias de las variaciones en el clima y en la concentración de CO₂ sobre el crecimiento de *Nothofagus pumilio* en la Patagonia. *Revista Chilena de Historia Natural*, 81: 239-256

Srur AM, Villalba R, Baldi G. 2011. Variations in *Anarthrophyllum rigidum* radial growth, NDVI and ecosystem productivity in the Patagonian shrubby steppes, *Plant Ecology*, 212:1841–1854, doi: 10.1007/s11258-011-9955-6

Srur AM, Villalba R, Villagra PE, Hertel D. 2007. Impactos de los cambios climáticos sobre los límites altitudinales del bosque de *Nothofagus pumilio* en El Chalten, Santa Cruz, Argentina. En: *Isótopos estables en agroecosistemas*. Lazzari M.A., Videla C. (eds.), p 125-131

St. George S, Meko DM, Girardin MP, Macdonald GM, Nielsen E, Pederson GT, Sauchyn DJ, Tardif JC, Watson E. 2009. The tree-ring record of drought on the Canadian Prairies. *Journal of Climate*, 22(3): 689–710, doi: 10.1175/2008JCLI2441.1

St. Jacques JM, Sauchyn DJ. 2009. Increasing winter baseflow and mean annual streamflow from possible permafrost thawing, Northwest Territories, Canada. *Geophysical Research Letters*, Vol. 36, L01401, doi:10.1029/2008GL035822.

St. Jacques JM, Sauchyn DJ, Yang Zhao. 2010. Northern Rocky Mountain streamflow records: Global warming trends, human impacts or natural variability? *Geophysical Research Letters*, Vol. 37, L06407, doi:10.1029/2009GL042045

Stahle DW, Burnette DJ, Villanueva-Diaz J, Heim Jr RR, Fye FK, Cerano Paredes J, Acuna-Soto R, Cleaveland MK. 2011. Pacific and Atlantic influences in Mesoamerican climate over the past millennium. *Climate Dynamics*: DOI 10.1007/s00382-011-1205-z.

Stahle DW, Cook ER, Villanueva-Diaz J, Fye FK, Brúñete DJ, Griffin RD, Soto RA, Seager R, Heim Jr RR. 2009. Early 21st-Century Drought in México, EOS, Transactions, American Geophysical Union, Eos, Vol. 90, No. 11, 17, pg. 89-100

Stahle DW, Villanueva-Diaz J, Burnette DJ, Cerano-Paredes J, Heim Jr. RR, Fye FK, Acuna-Soto R, Therrell MD, Cleaveland MK, Stahle DK. 2011. Major Mesoamerican droughts of the past millennium. *Geophysical Research Letters* 38, L05703. doi:10.1029/2010GL046472

Stahle DW, Cleaveland MK, Grissino-Mayer HD, Griffin RD, Fye FK, Therrell MF, Burnett DJ, Meko DM, Villanueva-Diaz J. 2009. Cool- and warm-season precipitation reconstruction over western New Mexico. *Journal of Climate* 22: 3729-3750.

Stoffel M, Luckman BH, Butler DR, Bollschweiler M. Dendrogeomorphology: Dating earth-surface processes with tree rings. In Shroder J.F. (ed) *Treatise on Geomorphology*, Elsevier

Stoffel M, Bollschweiler M, Butler DR, Luckman BH. 2010 Tree rings and natural hazards—an Introduction In Markus Stoffel, Michelle Bollschweiler, David R. Butler and Brian H. Luckman (eds) *Tree rings and Natural Hazards: a state-of-the-art* Springer, *Advances in Global Change Research* Vol 41 , 3-23

Stoffel M, Casteller A, Luckman BH, Villalba R. 2012. Spatiotemporal analysis of channel wall erosion in ephemeral torrents using tree roots—An example from the Patagonian Andes, *Geology* 40 (3): 247-250, doi: 10.1130/G32751.1

Stoffel M, Bollschweiler M, Butler DR, Luckman BH. 2010 Whither dendrogeomorphology? In Markus Stoffel, Michelle Bollschweiler, David R. Butler and Brian H. Luckman (eds) *Tree rings and Natural Hazards: a state-of-the-art* Springer, *Advances in Global Change Research* , Vol 41, 495-502

Stoffel M, Bollschweiler M, Butler DR, Luckman BH. 2010. Tree rings and natural hazards- an Introduction In Markus Stoffel, Michelle Bollschweiler, David R. Butler and Brian H. Luckman (eds) Tree rings and Natural Hazards: a state-of-the-art Springer, Advances in Global Change Research Vol 41 , 3-23

Szejner P, Le Quesne C, González ME, Christie DA. 2011. Recuperación de bosques de *Pilgerodendron uviferum* (D. Don) Florin luego de perturbaciones antrópicas en la Cordillera de la Costa de Valdivia, Chile. *Gayana Botánica* 68, 196-206, ISSN 0016-5301

Urrutia R, Lara A, Peña MP, Christie D. 2010. Water availability reconstructions using tree-rings in the Valdivian rainforest ecoregion, Chile (Proceedings of the PAGES 1st YSM: "Retrospective views on our planet's future") IOP Conference Series: Earth and Environmental Science (EES) Sci. 9 012006 doi: 10.1088/1755-1315/9/1/012006

Urrutia R, Vuille M, 2009: Climate Change projections for the tropical Andes using a regional climate model: Temperature and precipitation simulations for the end of the 21st century. *Journal of Geophysical Research* Vol. 114,D02108, doi:10.1029/2008JD011021.

Urrutia R, Lara A, Villalba R, Christie D, Le Quesne C. 2011. Multi-century tree-ring reconstruction of annual streamflow for the Maule River watershed in South-Central Chile. *Water Resources Research*. *Research* doi:10.1029/2010WR010173

Vanston JR, Sauchyn DJ. 2010. *Q. macrocarpa* annual, early- and late-wood widths as hydroclimatic proxies, southeastern Saskatchewan, Canada. [IOP Conference Series: Earth and Environmental Science](#), Volume 9,doi: 10.1088/1755-1315/9/1/012016.

Villalba, R. 2006. Calentamiento Global y Cambios Climáticos Regionales. *Cambio Climático*, pg. 3-6

Villalba R. 2007. Tree-ring evidence for tropical-extratropical influences on climate variability along the Andes in South America. *PAGES News*, 15 (2): 23-25

Villalba R, Grosjean M, Kiefer T. 2009. Long-term multi-proxy climate reconstructions and dynamics in South America (LOTRED-SA): State of the art and perspectives. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 281:175-179, doi:10.1016/j.palaeo.2009.08.007

Villalba R, Luckman BH, Boninsegna J, Dárrigo RD, Lara A, Villanueva-Díaz J, Masiokas M, Argollo J, Soliz C, Le Quesne C, Stahle DW, Roig F, Aravena JC, Hughes MK, Wiles G, Jacoby G, Hartsough P, Wilson RJS, Watson E, Cook ER, Cerano-Paredes J, Therrell MD, Cleaveland M, Morales MS, Graham NE, Moya J, Pacajes J, Massachesi G, Biondi F, Urrutia R, Martínez Pasteur G.. 2011. Dendroclimatology from regional to continental scales: Understanding regional processes to reconstruct large-scale climatic variations across the Western Americas. In: *Dendroclimatology: Progress and Prospects*, M. Hughes, T. Swetnam, H. Diaz (Eds.). *Developments in Paleoenvironmental Research*. Vol 11, 175-227, Chapter 7, doi: 10.1007/978-1-4020-5725-0_7. Springer.

Villalba R, Luckman BH, Boninsegna J, D'Arrigo RD, Lara A, Villanueva-Diaz J, Masiokas M, Argollo J, Soliz C, Le Quesne C, Stahle D, Roig F, Aravena JC, Hughes MK, Wiles G, Jacoby G, Hartsough P, Wilson RJS, Watson E, Cook ER, Cerano-Paredes J, Therrell M, Cleaveland M, Morales MS, Salzer M, Moya J, Pacajes J, Massacches, G, Biondi F, Urrutia R, Martinez Pastur G. 2011. Dendroclimatology from regional to continental scales: Understanding regional processes to reconstruct large-scale climatic variations across the Western Americas. In: *Tree Rings and Climate: Sharpening the Focus*, M. Hughes, H. Diaz, and T. Swetnam (eds). *Advances in Global Change Research*, Springer

Villalba R, Delgado S, De Membiela M, Mendoza D. 2006. Interannual variability in *Cedrela lilloi* wood anatomical features. In: *Ecología y producción de cedro (género Cedrela) en las Yungas australes*. Pacheco, S. Brown, A. (Eds.). LIEY-ProYungas. (Original title in Spanish: Variabilidad interanual de los caracteres anatómicos en el leño de, en el noroeste de Argentina). pp. 59-82

Villanueva-Diaz J, Morán Martínez R, Luckman BH, Cerano Paredes J, Estrada Avalos J. 2010. Precipitación y gasto reconstruido en la cuenca baja del Río Nazas. *Revista Mexicana de Ciencias Forestales*, Vol, 1(1)

Villanueva-Díaz J, Stahle DW, Luckman BH, Cerano Paredes J, Therrell MD, Martínez RM, Cleaveland MK. 2007. Potencial dendrocronológico de *Taxodium mucronatum* Ten. y acciones para su conservación en México. *Ciencia Forestal em México*, 32 (101):9-37

Villanueva-Díaz J. 2008. Un archivo histórico natural: los árboles. *Ciencia y Desarrollo* 34 (221): 48-55

Villanueva-Díaz J, Cerano Paredes J, Stahle DW, Ávalis J Estrada, Constante G. 2008. Dendrocronología, contribución del Abeto Douglas al conocimiento de la variación histórica del clima. *Forestal XXI* 11(5): 16-18.

Villanueva-Díaz J, Paredes JC, Ávalos JE. 2008. Reconstrucción de precipitación estacional de *Pseudotsuga menziesii* (Mirb.) Franco en Sierra La Madera, Cuatrociénegas, Coahuila, *Ciencia Florestal en Mexico*, ISSN 1405-3586,

Villanueva-Díaz J, Fulé PZ, Paredes JC, Ávalos JE, Cohen IS. 2009. Reconstrucción de la precipitación estacional para el barlovento de la Sierra Madre occidental con anillos de crecimiento de *Pseudotsuga Menziesii* (Mirb) Franco, *Ciencia Forestal*, Vol. 34:105-244, ISSN 1405-3586

Villanueva-Díaz J, Paredes JC, Garcia VC, Oviedo EC, Santillán MH. 2008. Los Pinos Piñoneros del Noreste de México y su Respuesta Climática (*The Climate Response of Pinyon Pines in Northeastern Mexico*). *Recursos Forestales – AGROFAZ*, Volumen 8, Nr 3, 167-176. ISSN 1665-8892

Villanueva-Díaz J, Cerano Paredes J, Constante G. Ávalos JE. 2009. Bosques de galería con ahuehuate (*Taxodium mucronatum* Ten.) en el Río Nazas:tasas de crecimiento y respuesta climática. *Agrofaz* 9(3): 134-143

Villanueva-Díaz J, Martínez RM, Cerano Paredes J, Luckman BH. 2007. Distribución estructural del sabino o ahuehuete (*Taxodium mucronatum* Ten.) en márgenes del río Nazas. *Agrofaz* 7(3):87-108, ISSN: 16658892

Villanueva Díaz J, Cacicano RT, Saucedo JCR, Cerano Paredes J, González MR, Ávalos JE, García VC, Tostado MM. 2011. Respuesta hidrológica del sabino en bosques de galería del río San Pedro Mezquital, Durango. *AGROFAZ* 11(4): 77-86, ISSN: 1665-8892

Villanueva-Díaz J, Stahle DW, Luckman BH, Cerano-Paredes J, Therrell MD, Cleaveland MK. 2007. Winter-spring precipitation reconstructions from tree rings for northeast Mexico. *Climatic Change* 83: 117-131, doi: 10.1007/s10584-006-9144-0

Villanueva-Díaz J, Cerano PJ, Stahle DW, Constante GV, Vázquez SL, Estrada JA, Dios Benavides JS. 2010. Árboles longevos de México. *Revista Mexicana de Ciencias Forestales* 1(2): 7-29

Villanueva-Díaz, J, Cerano-Paredes J, Rivera González M, Trucios RC, Stahle EDW, Constante VG, Estrada JA. 2010. Respuesta climática de Douglas-fir (*Pseudotsuga menziesii* Mirb.) a la influencia de patrones de circulación general en el norte de México. *Agrofaz* 10(3): 234-246.

Villanueva-Díaz J, Jullian MG, Paredes JC, Garcia VC, Gonzalez LHM, Selem LV. 2009. Muestreo Dendrocronológico: colecta, preparación y procesamiento de núcleos de crecimiento y secciones transversales. INIFAP, CENID-RASPA, ISBN 978-607-425-141-8

Villanueva-Díaz J, Paredes JC, García VC, Fulé PZ, Oviedo EC. 2009. Variabilidad hidroclimática histórica de la sierra de Zapalinamé y disponibilidad de recursos hídricos para Saltillo, Coahuila (Historical hydroclimatic variability of the Zapalinamé Sierra

Villanueva-Díaz J, Stahle DW, Luckman BH, Paredes JC, Therrell MD, Morán R, Cleaveland MMK. 2007. Potencial dendrocronológico de *Taxodium mucronatum* Ten. Y acciones para su conservación en México. *Ciencia Forestal* 32 (101): 9-37.

Villanueva-Díaz J, Cerano Paredes J, Luckman BH, Stahle DW, Therrell MD, Estrada JA, Sánchez IC. 2007. Reconstrucciones paleoclimáticas con anillos de árboles en la cuenca Nazas- Aguanaval de la región hidrológica 36. Pp. 117-144. In I. Sánchez C., G. Chebhouni (compiladores), *Procesos hidrológicos en zonas áridas y semiáridas: de la investigación a la acción*. Libro científico No. 3, INIFAP CENID RASPA. Gómez Palacio, Durango. 197 pp.

Villanueva-Díaz J, Cerano Paredes J, Stahle DW, Luckman BH, Therrell MD, Cleaveland MK, Fulé PZ. 2011. La dendrocronología y reconstrucciones paleoclimáticas en el norte-centro de México Pp. 47-72, In: M. Caballero, B. Ortega G. (Compiladoras), *Escenarios de cambio climático: Registros del Cuaternario en América Latina I*. UNAM, Instituto de Geofísica, Dirección General de Publicaciones y Fomento Editorial. México, D.F. 408 Pp.

Villanueva-Díaz J, Cerano-Paredes J, Luckman BH, Estrada-Avalos J, Stahle DW, Sánchez Cohen, I, Therrell M D, Morán-Martínez, R. 2006 Precipitación y Flujo Histórico de la Cuenca Nazas-Aguanaval e Impacto en la Agricultura, INIFAP, Folleto Científico 19, Gómez Palacio, Durango, México. 44 p.

Villanueva-Díaz J, Cerano-Paredes J, Stahle DW, Therrell M D, Cleaveland MK, Luckman BH. 2005 Estudios paleoclimáticos en México utilizando anillos de crecimiento de especies arbóreas. In. Benavides Solorio, J, Becerra Luna, F., Hernández Tejeda, T., Gonzáles Sánchez and Flores Gernica, J. (eds.) Contribución al estudio de los Servicios Ambientales INIFAP, Campo Experimental Centro-Altos de Jalisco, Libro Técnico, Num. 1 pp. 7-32

Villarosa G, Outes V, Masiokas M, Villalba R, Rivas, S. 2008. El Monte Tronador - Historias de hielo y fuego. Sitios de Interés Geológico de la República Argentina. SEGEMAR (Servicio de Geología y Minería de la República Argentina), Buenos Aires. Vol. 2. pp. 628-641

Vimeux F, Ginot P, Schwikowski M, Vuille M, Hoffmann G, Thompson LG, Schotterer U. 2009. Climate variability during the last 1000 years inferred from Andean ice cores: a review of methodology and recent results. *Palaeogeography, Palaeoclimatology, Palaeoecology* 281: 229–241, doi:10.1016/j.palaeo.2008.03.054

Vinebrooke RD, Thompson PL, Hobbs W, Luckman BH, Graham MD, Wolfe AP. 2010. Glacially mediated impacts of climate warming on alpine lakes of the Canadian Rocky Mountains. *Verhandlungen des Internationalen Verein Limnologie* 30, 9, 1449-1492

Viviroli D, Archer D, Buytaert W, Fowler HJ, Greenwood GB, Hamlet AF, Huang Y, Koboltschnig G, Litaor MI, Lopez-Moreno JI, Lorentz S, Schaedler B, Schwaiger K, Vuille M, Woods R. 2010. Climate Change and mountain water resources: Overview and recommendations for research, management and politics, *Hydrol. Earth Syst. Sci. Discuss.*, 7:2829-2895, doi:10.5194/hessd-7-2829-2010 , doi:10.5194/hessd-7-2829-2010

Vuille M, Milana JP. 2007. High-latitude forcing of regional aridification along the subtropical west coast of South America, *Geophysical Research Letters*, Vol. 34, L23703, doi:10.1029/2007GL031899

Vuille M, Francou B, Wagnon P, Juen I, Kaser G, Mark BG, Bradley RS. 2008. Climate change and tropical Andean glaciers - Past, present and future, *Earth Sci. Rev.*, 89, 79-96, doi:10.1016/j.earscirev.2008.04.002

Vuille M, Kaser G, Juen I. 2008. Glacier mass balance variability in the Cordillera Blanca, Peru and its relationship with climate and the large-scale circulation. *Global Planet. Change*, 62(1-2), 14-28. doi:10.1016/j.gloplacha.2007.11.003.

Watson E, Luckman BH. 2005. An exploration of the controls of pre-instrumental streamflow using multiple tree-ring proxies. *Dendrochronologia* 22: 225-234, doi:10.1016/j.dendro.2005.05.006

Watson E, Luckman BH. 2006. Long hydroclimate records from tree-rings in western Canada. Potential, problems and prospects. *Canadian Water Resources Journal*, Vol. 31(4)205-228

Watson E, Luckman BH, Yu B. 2006 Long-term relationships between reconstructed seasonal mass balance at Peyto Glacier, Canada, and Pacific sea surface temperatures. *The Holocene*, Vol. 16, No. 6, 783-790, doi: 10.1191/ 0959683606hol1973ft

Watson E, Pederson GT, Luckman BH, Fagre DB. 2008. Glacier mass balance in the northern U.S. and Canadian Rockies: paleo-perspectives and 20th century change. In “Darkening Peaks: Glacier Retreat, Science and Society”, University of California Press, p. 141-153

Wilson R, D’Arrigo R, Buckley B, Buntgen U, Esper J, Frank D, Luckman B, Payette S, Vose R, Youngblut D. 2007. A matter of divergence: Tracking recent warming at hemispheric scales using tree ring data. *Journal of Geophysical Research*, 112, D17103, doi:10.1029/2006 JD008318.

Youngblut DK, Luckman BH. 2008. Maximum June-July temperatures in the southwest Yukon region over the last 300 years reconstructed from tree-rings. *Dendrochronologia*, 25:153–166, doi:10.1016/j.dendro.2006. 11.004

Villalba R, Lara A, Masiokas MH, Urrutia R, Luckman BH, Marshall GJ, Mundo IA, Christie DA, Cook ER, Neukom R, Allen K, Fenwick P, Boninsegna J, Srur AM, Morales MS, Araneo D, Palmer JG, Cuq E, Aravena JC, Holz A, LeQuesne C. 2012. Unusual Southern Hemisphere tree growth patterns induced by changes in the Southern Annular Mode. *Nature Geoscience*, doi: 10.1038/NGEO1613

Jones J. 2012. Tree rings and storm tracks. *Climate Science*. Published online