

Influences of Climate on Plant Invasions

Julio Betancourt

Websites

USA-National Phenology Network – Monitoring climate change on animals and plants (including some invasive plants)

<http://www.usanpn.org>

Buffelgrass Information Center

<http://www.buffelgrass.org>

Buffelgrass invasion video

<http://www.youtube.com/watch?v=nQtIVzSrqZY>

High Country News – Article on buffelgrass issues in southern Arizona

<http://www.hcn.org/issues/352/17167>

Journal Articles and Proceedings

PDFs for some of the citations below are accessible at Julio Betancourt's website:

http://www.paztcn.wr.usgs.gov/julio_cv.html

Barnett TP, Pierce DW, Hidalgo HH, Bonfils C, Santer BD, Das T, Bala G, Wood AW, Nozawa T, Mirin AA, Cayan DR, Dettinger MD. 2008. **Human-induced changes in the hydrology of the western United States.** *Science* 319(5866):1080-1083.

http://meteora.ucsd.edu/~pierce/journal_articles.html

Bradley BA, Wilcove DS, Oppenheimer M. 2009. **Climate change and plant invasions: restoration opportunities ahead?** *Global Change Biology* 15(6):1511-1521.

Bradley BA, Wilcove DS. 2009. **When invasive plants disappear: transformative restoration possibilities in the western United States resulting from climate change.** *Restoration Ecology* (in press).

<http://www.princeton.edu/~bethanyb/Bradley%20and%20Wilcove,%20Rest%20Ecol,%20In%20Press.pdf>

Cayan DR, Kammerdiener SA, Dettinger MD, Caprio JM, Peterson DH. 2001. **Changes in the onset of spring in the western United States.** *Bulletin of the American Meteorological Society* 82(3):399-415.

<http://tenaya.ucsd.edu/~dettinge/western.html>

Milly PCD, Betancourt JL, Falkenmark M, Hirsch RH, Kindzewicz Z, Lettenmaier DP, Stouffer RJ. 2008. **Stationary is dead: whither water management: rethinking approaches to planning and design in a changing climate.** *Science* 319:573-574.

McCabe GJ, Palecki MA, Betancourt, JL. 2004. **Pacific and Atlantic Ocean influences on multidecadal drought frequency in the United States.** Proceedings of the National Academy of Sciences 101(12):4136-4141.

Salo LF. 2005. **Red brome (*Bromus rubens* subsp. *madritensis*) in North America: possible modes for early introductions, subsequent spread.** Biological Invasions 7(2):165-180.

Seager R, Ting MF, Held IM, Kushnir Y, Lu J, Vecchi G, Huang HP, Harnik N, Leetmaa A, Lau NC, Li C, Velez J, Naik N. 2007. **Model projections of an imminent transition to a more arid climate in southwestern North America.** Science 316(5828):1181-1184.

<http://www.ldeo.columbia.edu/res/div/ocp/drought/science.shtml>

Society for Range Management – Presentations from the **Wildfires and Invasive Plants in American Deserts conference**, Reno, NV, Dec 2008.

<http://www.rangelands.org/deserts/index.shtml>

Swetnam TW, Betancourt JL. 1998. **Mesoscale disturbance and ecological response to decadal-scale climate variability in the American Southwest.** Journal of Climate 11:3128-3147.

Westerling AL, Hidalgo HG, Cayan DR, Swetnam TW. 2006: **Warming and earlier spring increase western U.S. forest wildfire activity.** Science 313(5789):940-943.

<http://www.sciencemag.org/cgi/content/full/313/5789/940>