

DWR Climate News Digest

September 1st - October 26th, 2014

Disclaimer: The information and links provided on this web page are not intended to state or imply any formal position of the California Department of Water Resources

The information provided herein is a selected compilation of recent popular news articles, publications, and other information relevant to climate change and water management. The links provided herein are intended to provide educational and thought-provoking material for water managers and water users.

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TOPICS [Find older items in the [Climate News Archive](#)]

Reports

[Enhancing the Climate Resilience of America's Natural Resources](#)

[Council on Climate Preparedness and Resilience – October 2014]

[West-wide Climate Risk Assessment – Sacramento and San Joaquin Basins Climate Impact Assessment](#) [US Bureau of Reclamation – September 2014] (pdf)

[Climate Change Indicators in the United States 2014](#)

[US Environmental Protection Agency – October 2014]

[Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans](#)

[USEPA – September 2014]

[Explaining Extreme Events of 2013 from a Climate Perspective](#)

[National Oceanic and Atmospheric Administration – September 2014]

Published Literature

[Predicting Vulnerabilities of North American Shorebirds to Climate Change](#)

[PLOS one – September 2014]

Sea-level Rise and other Ocean Impacts

[Sea level rise over the past century unmatched in 6,000 years, study says](#)

[Guardian – October 13, 2014]

September 1st, 2014 to October 26th, 2014

[Global economy to lose billions without action to stop ocean acidification](#)

[UN News – October 8, 2014]

[Antarctic winter sea ice extent sets new record in 2014](#)

[National Oceanic and Atmospheric Administration – October 7, 2014]

[Earth's ocean abyss has not warmed, NASA study finds](#) [Science Daily – October 6, 2014]

[The ocean's surface layer has been warming much faster than previously thought](#)

[Climate Progress – October 6, 2014]

[Changing Antarctic waters could trigger steep rise in sea levels, conditions 14,000 years ago suggest](#) [Science Daily – October 1, 2014]

Agriculture/Food Production

[Five reasons to care about climate change and agriculture](#)

[Environmental Defense Fund – September 4, 2014]

General Water Management

[Climate change influencing freshwater mountain runoff, research shows](#)

[Yubanet – September 10, 2014]

Extreme Weather Events

[California officially enters 4th year of drought with worst water situation in history](#) [CBS-San Francisco – September 30, 2014]

[Causes of California drought linked to climate change, Stanford scientists say](#)

[Stanford – September 30, 2014]

[New report finds human-caused climate change increased severity of 2013 heat waves in Asia, Europe and Australia](#)

[National Oceanic and Atmospheric Administration – September 29, 2014]

[Special update: The extraordinary California drought of 2013-2014: Character, context, and the role of climate change](#) [Weather West – September 29, 2014]

Human Health Impacts

[American Medical Association highlights health and climate change link](#)

[Clean Technica – October 4, 2014]

Tribal Impacts & Traditional Ecological Knowledge

EPA announces \$43 million for Southwestern tribes suffering drought

[Think Progress – October 16, 2014]

Moving back home together – Rarest native animals find haven on tribal lands

[NY Times – August 25, 2014]

Wildlife and Ecosystem Impacts

Mountain goats are shrinking – a lot- because of global warming [National Geographic – October 22, 2014]

Climate change alters cast of winter birds [PhysOrg – October 17, 2014] (*“Birds have always been very good indicators of environmental change. Whenever you have a reshuffling of a community of species, you have less of a sense of what change is going to be”*)

Middle Eastern vegetation resistant to climate change: Ecosystems withstand more than seven lean years [Science Daily – October 10, 2014]

Climate change alters the ecological impacts of seasons [Science Daily – October 9, 2014]

Predicting impact of climate change on species that can't get out of the way

[Science Daily – October 1, 2014]

Walrus are hauling out on land instead of ice because of climate-induced warming [USGS – October 1, 2014]

“Growing” habitat can help agriculture and wildlife weather the drought

[Environmental Defense Fund – September 11, 2014]

Climate change may put half of North American birds at risk of extinction

[National Geographic – September 2014]

Multiple metrics of climate change reveal unappreciated impacts on biodiversity

[Imperial College London – May 1, 2014] (*For the first time, a study...has compared climate change metrics together, instead of in isolation, on a global scale, to look at how biodiversity will be impacted”*)

Greenhouse Gas Mitigation

[A sprinkle of compost helps rangeland lock up carbon](#) [SF Gate – October 20, 2014]

[New York mayor unveils plan to reduce carbon emissions by 80 percent](#)

[Think Progress – September 22, 2014]

[Global rise reported in 2013 greenhouse gas emissions](#)

[New York Times – September 21, 2014]

Climate Adaptation

[Essay: In Iceland's resilience, a lesson for us as our world shifts](#)

[Daily Climate – October 24, 2014]

[Few U.S. states preparing for climate change, study says](#) [LA Times – October 9, 2014]

[Cities prepare for climate change without saying so](#) [CBS local Detroit – September 8, 2014]

International Planning

[European leaders agree on targets to fight climate change](#)

[New York Times – October 23, 2014] (*"The main target that won approval was a pledge to slash emissions by at least 40 percent, compared with 1990 levels, by 2030"*)

[Farmers in Burkina Faso outsmart climate change](#)

[Christian Science Monitor – October 20, 2014]

[India's 'climate smart' villages target sustainable agriculture](#)

[Voice of America – September 5, 2014]

Communicating Climate Change

[Psychologists are learning how to convince conservatives to take climate change seriously](#)

[NYmag.com – October 1, 2014]

[Experts call for widening the debate on climate change](#) [Science Daily – September 26, 2014]

("What is needed is a deeper appreciation that such change will cause fundamental disagreements about responsibilities, rights and duties – among humans and towards nature. We think social scientists and humanists could significantly enrich public debates about how to respond to environmental change")

[The scientific consensus on climate change, illustrated in cartoons](#)

[City Lab – September 11, 2014]

[Rethinking how we think about climate change](#) [Audubon – September 9, 2014]

Climate Change Modeling

[With few data, Arctic carbon models lack consensus](#) [Science Daily – September 26, 2014]

BLOGS/Commentary

Joe Romm on “[The planet just had its hottest September on record](#)”

[Climate Progress – October 13, 2014]

Joe Romm on “[2°C or not 2°C: Why we must not ditch scientific reality in climate policy](#)”

[October 1, 2014]

Jarvis Cocker on “[Climate change is real. Want to live? It's up to people like you](#)”

[Guardian – September 18, 2014]

Paul Krugman on “[Could fighting global warming be cheap and free?](#)”

[New York Times – September 18, 2014]

David Roberts on “[Preventing climate change and adapting to it are not morally equivalent](#)”

[Grist – September 16, 2014]

Chris Rose on “[What does climate adaptation actually look like? Check out this awesome new infographic series from Cambridge](#)” [Desmogblog – September 5, 2014]

Additional Items of Interest

[2014 Arctic sea ice extent – 6th lowest in millennia](#) [Skeptical Science – October 23, 2014]

[Wind could provide almost one-fifth of global electricity by 2030](#)

[Climate Progress – October 22, 2014]

[Earth just had its hottest September on record](#) [Climate Progress – October 20, 2014]

(“...almost every month in 2014 has been among its respective four warmest on record”)

[DOD: Climate change is a volatile factor in international security](#) [NPR – October 19, 2014]

[Pentagon report: U.S. military considers climate change a ‘threat multiplier’ that could exacerbate terrorism](#) [Newsweek – October 14, 2014]

[White House pushes climate protections for natural resources](#) [The Hill – October 9, 2014]

[Smithsonian Statement on Climate Change](#) [Smithsonian Institute – October 2, 2014]

[Obama at climate summit: 'We have to lead'](#) [Politico – September 23, 2014]

[New Executive Order: U.S. must consider climate change when helping other countries](#)

[Climate Progress – September 23, 2014]

[New report predicts climate change will significantly impact California's Central Valley](#)

[US Department of Interior – September 22, 2014]

[Largest global call for climate action in history](#) [Peoples Climate – September 21, 2014]

("Today, the world marched for climate action. From Manhattan to Melbourne, more than half a million people took to the streets in a unified global move to demand ambitious commitments from world leaders in tackling the climate crisis")

[Stopping climate meltdown needs courage that saved the ozone layer](#)

[Guardian – September 11, 2014]

[The big chill: Polar vortex linked to climate change](#) [Nature World News – September 4, 2014]

['Years of Living Dangerously' shows the devastating effects of climate change](#)

[Newsweek – September 4, 2014]

[Why it's already legal for Obama to take on climate change without Congress](#)

[Newsweek – August 28, 2014]

[Water and sunlight: The formula for sustainable fuel](#) [Science Daily – August 21, 2014]

("Scientists have replicated one of the crucial steps in photosynthesis, opening the way for biological systems powered by sunlight which would manufacture hydrogen as a fuel")

Images to Ponder

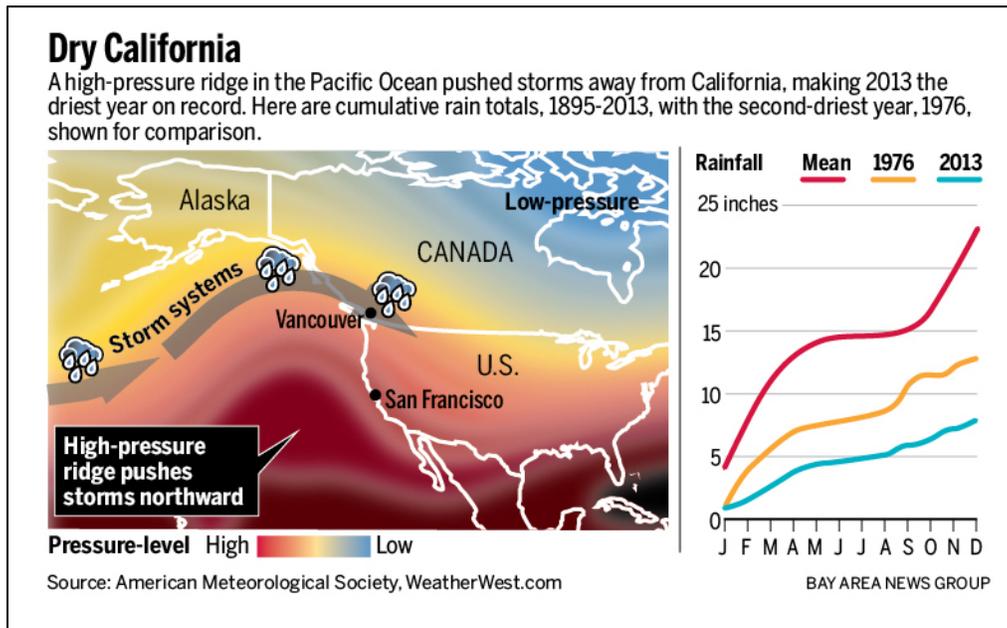


Image source: <http://www.mercurynews.com/portlet/article/html/imageDisplay.jsp?contentItemRelationshipId=6273377>

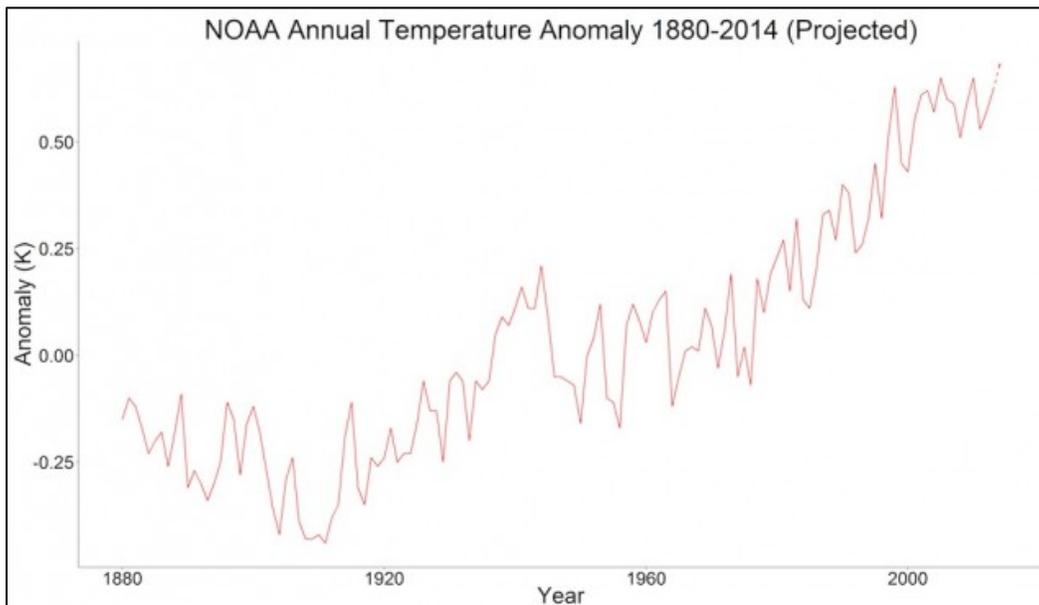


Image source: <http://www.ncdc.noaa.gov/sotc/global/2014/9/supplemental/page-1>

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