

DWR Climate News Digest

July 2015

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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](#)]

DWR Staff Publications

California Central Valley Water Rights in a Changing Climate

[San Francisco Estuary & Watershed – June 2015] (*“Projections of future water rights curtailments show that water rights holders are likely to be curtailed much more frequently, and for significantly longer durations, as we move through the 21st century”*)

Reports

State of the Climate in 2014 [Bulletin of the American Meteorological Society – July 2015]

Climate Change: A Risk Assessment

[University of Cambridge Centre for Science and Policy – July 2015] (*This report, developed by experts in energy policy, climate science, technology, finance, international security, politics and economics “...argues that the risks of climate change should be assessed in the same way as risks to national security, financial stability, or public health”*)

The New Climate Economy [Global Commission on the Economy and Climate – July 2015]

(*“The New Climate Economy explores how countries at all levels of income can have better economic growth and a better climate. Explore the new 2015 report for greater insight into how partnerships can help seize the global opportunity of a low-carbon future”*)

Published Literature

[Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2°C global warming is highly dangerous](#)

[Atmospheric Chemistry and Physics – July 2015] (*“There is evidence of ice melt, sea level rise to +5-9 m, and extreme storms in the prior interglacial period that was less than 1°C warmer than today. Human-made climate forcing is stronger and more rapid than paleo forcings, but much can be learned by combining insights from paleoclimate, climate modeling, and on-going observations...We conclude that 2°C global warming above the preindustrial level, which would spur more ice shelf melt, is highly dangerous.”*)

[Sea-level rise due to polar ice-sheet mass loss during past warm periods](#)

[Science – July 10, 2015]

Grants and Other Funding Opportunities

[Proposition 1 – Watershed Restoration and Delta Water Quality and Ecosystem Restoration](#)

[Grant Program 2015-2016 PSP](#) [California Department of Fish and Wildlife – **Applications due September 16, 2015**] (also see the [CDFW webpage for Restoration Grant Programs](#))

[Proposition 1 – Stream Flow Enhancement Program Solicitation and Application](#)

[Wildlife Conservation Board – **Applications due September 30, 2015**]

Sea-level Rise and other Ocean Impacts

[Climate change will cause increased flooding in coastal cities](#) [Forbes – July 28, 2015]

[Ocean acidification may cause dramatic changes to phytoplankton](#)

[Science Daily – July 20, 2015]

[Climate change is increasing stress on oceans](#) [Climate Central – July 14, 2015]

[Climate change could lead to seas rising 20 feet](#) [CBS News – July 10, 2015]

[Sea level could rise at least 6 meters](#) [Scientific American – July 9, 2015]

Agriculture/Food Production

[Prepare farms for the future](#) [Nature – July 21, 2015] (*“Scientists must work closely with farmers to ensure that agriculture can stand up to the ravages of climate change”*)

[Report sees major food shortage as climate change danger](#) [Insurance Journal – July 16, 2015]

(“The report from Lloyd’s of London, “Food System Shock: The insurance impacts of acute disruption to global food supply,” isn’t focused on climate change, but the author of the report calls it out as an ‘exacerbating factor’)

Extreme Weather Events

[‘It is climate change’: India’s heat wave now the 5th deadliest in world history](#)

[Think Progress – July 2, 2015]

Human Health Impacts

[Impacts of climate change on human health](#) [Earthsy – July 29, 2015]

[Unraveling the relationship between climate change and health](#)

[New York Times – July 13, 2015]

Tribal Impacts & Traditional Ecological Knowledge

[Oregon tribes preparing for climate change](#) [The Register Guard – July 30, 2015]

[Native American tribe using traditional methods to combat California drought](#)

[ABC30 – July 27, 2015]

[Meet the teenage indigenous hip-hop artist taking on climate change](#)

[Rolling Stone – July 13, 2015]

[White House hosts tribal youth, the ‘heart of the American story’](#) [NPR – July 12, 2015]

Wildlife and Ecosystem Impacts

[Study shows tropical fish genetically adapting to cope with warmer waters](#)

[Sydney Morning Herald – July 21, 2015]

[Bees are losing their habitat because of climate change](#) [Time – July 9, 2015]

[Pink salmon struggle as freshwater becomes acidic](#) [Scientific American – June 30, 2015]

Greenhouse Gas Mitigation

[World's largest steel company to use rabbit gut microbe to cut emissions](#)

[The Guardian – July 13, 2015]

[Cloud brightening experiment tests tool to slow climate change](#)

[Mercury News – July 11, 2015] (*"A team of elder Silicon Valley scientists is building an audacious device that might solve one of humanity's most profound dilemmas – a 'cloud whitener' designed to cool a warming planet"*)

Climate Adaptation

[Mangroves help protect against sea level rise](#) [Science Daily – July 23, 2015]

International Planning

[FACT SHEET] **[Partnering with Africa on Food Security and Climate Change Adaptation](#)** [White House – July 28, 2015]

[Netherlands company introduces plastic roads that are more durable, climate friendly than asphalt](#) [Climate Progress – July 22, 2015]

[Australia can stop greenhouse gas emissions by 2050: Here's how](#)

[The Conversation – July 6, 2015]

[Dutch government ordered to cut carbon emissions in landmark ruling](#)

[The Guardian – June 24, 2015]

Communicating Climate Change

[Education increases belief in climate change – everywhere except the U.S.](#)

[Grist – July 29, 2015]

[People are asking Google if climate change is real](#) [Huffington Post – July 23, 2015] (*"They also want to know how it can be stopped"*)

[New study links climate change denials with conspiracy theories](#) [Science Alert – July 9, 2015]

BLOGS/Commentary

Rekha Basu on "**[Why climate change is a woman's issue](#)**" [Des Moines Register – July 31, 2015]

Margaret E. Atwood on "**[It's not climate change – it's everything change](#)**"

[Medium – July 27, 2015]

Joe Romm on [“The link between climate change and ISIS is real”](#)

[Climate Progress – July 23, 2015] (*“We know that the Syrian civil war that helped drive the rise of the terrorist Islamic State of Iraq and Greater Syria (ISIS) was itself spawned in large part by what one expert called perhaps ‘the worst long-term drought and most severe set of crop failures since agricultural civilizations began in the Fertile Crescent’ from 2006 to 2010.”*)

Additional Items of Interest

The new economics of climate change [The New Yorker – July 30, 2015] (*“Why do we need these leviathan institutional investors – historically the most passive and conservative players in the global economy – to tell us to take action that we know is both imperative and dangerously belated?”*)

DoD releases report on security implications of climate change

[US Department of Defense – July 29, 2015]

[FACT SHEET] White House launches American Business Act on Climate Pledge

[The White House – July 27, 2015] (*“Today at the White House, Secretary of State John Kerry and senior White House officials will host 13 of the largest companies from across the American economy who are standing with the Obama Administration to launch the American Business Act on Climate Pledge: Alcoa, Apple, Bank of America, Berkshire Hathaway Energy, Cargill, Coca-Cola, General Motors, Goldman Sachs, Google, Microsoft, PepsiCo, UPS, and Walmart. **The companies making pledges as part of today’s launch represent more than \$1.3 trillion in revenue in 2014 and a combined market capitalization of at least \$2.5 trillion.**”*)

Abrupt climate change may have rocked the cradle of civilization

[Science Daily – July 23, 2015]

James Hansen’s controversial sea level rise paper has now been published online

[Washington Post – July 23, 2015]

First half of 2015 was hottest ever recorded [Huffington Post – July 20, 2015]

Passage of California climate change bill could set global example [LA Times – July 18, 2015]

Financial benefits of tackling climate change outweigh costs – study

[Energy and Environment News – July 14, 2015]

Media reports the world will enter a ‘mini ice age’ in the 2030s. The reverse is true.

[Think Progress – July 13, 2015]

[Treat climate change as seriously as national security](#) [Reuters – July 13, 2015]

[Greenland experiences sudden onset of melt season](#) [Scientific American – July 7, 2015]

[Governor Brown says climate change creates Titanic-like scenario for world](#)

[LA Times – July 7, 2015]

[Here's the most lucrative way to fight climate change](#) [Time – July 7, 2015] (*"A new report outlines how to grow the economy and stymie climate change at the same time"*)

[Interactive website] [The Solutions Project](#) – (*"The world can transition to 100% clean, renewable energy. Click on a state to launch an interactive experience showcasing the benefits of a transition to 100% clean, renewable energy"*)

[A group of Nobel Laureates have signed a declaration calling for urgent action on climate change](#) [Quartz – July 3, 2015] (*"The discoveries of these signatories have mostly improved the quality of life of people around the world, but they now stand horrified at the prospect of what unchecked use of natural resources could do to the future"*)



Image credit: <http://www.rollingstone.com/politics/news/the-point-of-no-return-climate-change-nightmares-are-already-here-20150805>

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