

DWR Climate News Digest

October 2015

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The information provided in the DWR Climate News Digest is a selected compilation of recent popular news articles, publications, and other information relevant to climate change and water management, and is 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

[DRAFT Safeguarding California: Implementation Action Plans](#)

[California Natural Resources Agency – October 2015]

[Baylands Ecosystem Habitat Goals Science Update 2015](#)

[Baylands Ecosystem Habitat Goals Project – October 2015]

Published Literature

[Future temperature in southwest Asia projected to exceed a threshold for human adaptability](#)

[Nature Climate Change – October 26, 2015]

[Global alteration of ocean ecosystem functioning due to increasing human CO2 emissions](#)

[Proceedings of the National Academy of Sciences – October 2015]

[Biodiversity increases the resistance of ecosystem productivity to climate extremes](#)

[Nature (letter) – October 2015]

[Co-benefits of addressing climate change can motivate action around the world](#)

[Nature Climate Change – September 28, 2015]

Agriculture/Food Production

[Winemakers will survive, international body says of climate change](#)

[Reuters – October 29, 2015]

[Carbon sequestration in soil: The potential underfoot](#) [Science Daily – October 19, 2015]

[Food giants urge climate change action](#) [Environmental Leader – October 5, 2015] (“CEOs of Mars, General Mills, Unilever, Kellogg, Nestle USA, New Belgium Brewing, Ben & Jerry’s, Clif Bar, Stonyfield Farm and Dannon USA released [a joint letter to US and world leaders](#), an effort coordinated by nonprofit sustainability advocacy organization Ceres”)

General Water Management

[Climate change creates flood of water jobs](#) [SF Gate – October 30, 2015]

Extreme Weather Events

[Too hot to work? Maybe in 30 years’ time](#) [CNBC – October 27, 2015] (“Climate change could slash labor productivity in some countries by as much as 25 percent over the next 30 years”)

[These cities may soon be uninhabitable thanks to climate change](#) [Time – October 26, 2015]

[California faces a future of droughts alternating with floods](#)

[Inside Climate News – October 23, 2015]

[California 2100: More frequent and more severe droughts and floods likely](#)

[Science Daily – October 21, 2015]

[South Carolina floods: climate change intensified conditions, scientists say](#)

[The Guardian – October 5, 2015]

Sea-level Rise and other Ocean Impacts

[How Washington transformed its dying oyster industry into a climate success story](#)

[Climate Progress – October 28, 2015]

[NOAA declares third ever global coral bleaching event](#) [Science Daily – October 8, 2015]

Human Health Impacts

[Exclusive: Elevated CO2 levels directly affect human cognition, new Harvard study shows](#)

[Climate Progress – October 26, 2015]

[Pediatricians’ group urges action on climate change](#) [US News – October 26, 2015] (“Doctors and policy makers must take steps to protect youngsters from the hazardous effects of climate change, the American Academy of Pediatrics said in a new policy statement”)

Tribal Impacts & Traditional Ecological Knowledge

Engagement with indigenous peoples and honoring traditional knowledge systems

[Climatic Change – October 26, 2015]

Wildlife and Ecosystem Impacts

Collapse of New England's iconic cod tied to climate change

[American Association for the Advancement of Science – October 29, 2015]

Climate change could push snow leopards to extinction [October 23, 2015]

The rapid and startling decline of world's vast boreal forests

[Yale Environment 360 – October 12, 2015]

Quantifying the impact of climate on ecosystems worldwide [Science Daily – October 8, 2015]

Even desert lizards are feeling the heat due to climate change [Smithsonian – October 5, 2015]

Greenhouse Gas Mitigation

Texas, California lead nation in carbon emissions [Climate Central – October 29, 2015]

Massachusetts mulls an economy-wide price on carbon

[Inside Climate News – October 29, 2015]

Can the University of California help answer our climate problems?

[Christian Science Monitor – October 28, 2015]

Will hacking nature protect us from climate change? [CNN – October 26, 2015] (*“Whether you call it hacking, or ‘fiddling with the knobs on the climate system’, or the less-imaginative ‘geoengineering’, it revolves around this question: Can humans game the system by using science to reverse global warming”*)

Pledges by top three greenhouse gas emitters shut out other nations

[Science Daily – October 19, 2015]

Emissions targets are out of reach without a massive technological shift in Europe's basic industries [Science Daily – October 5, 2015]

Climate Adaptation

California seeks to base future growth on climate change adaptation

[Emergency Management – October 27, 2015]

International Planning

[How Tanzania plans to light up a million homes with solar power](#)

[The Guardian – October 29, 2015]

[Sonderborg: The little known Danish town with a zero carbon master plan](#)

[The Guardian – October 22, 2015]

[Mexico challenges other nations to act boldly against climate change](#)

[Scientific American – October 14, 2015]

[Sweden aspires to become the world's first fossil fuel-free nation](#)

[Clean Technica – October 13, 2015]

[Gov't secures \\$810.2 million World Bank grant for climate change project](#)

[Jamaica Observer – October 5, 2015]

[Here's what the G-20 nations are pledging on climate change](#) [Bloomberg – October 4, 2015]

[India pledges to cut emissions intensity to help fight climate change](#)

[The Wall Street Journal – October 1, 2015]

Legislative Updates

Senate Bill 246 (SB 246) – Wieckowski. [Climate change adaptation](#) [October 2015]

[Gov. Brown signs climate change bill to spur renewable energy, efficiency standards](#)

[LA Times – October 7, 2015]

Communicating Climate Change

[50 years after first warning to a U.S. President on climate change, communication challenges](#)

[remain](#) [Forbes – October 28, 2015] (“On 5 November, 1965, the group now known as the President’s Council of Advisors on Science and Technology (PCAST) cautioned President Lyndon B. Johnson that continued accumulation of atmospheric carbon dioxide resulting from fossil-fuel burning would “almost certainly cause significant changes” and “could be deleterious from the point of view of human beings.”)

[Why fighting climate change requires changing the narrative](#) [NPR – October 28, 2015]

[Americans have never been so sure about climate change- even Republicans](#)

[Bloomberg – October 23, 2015]

[Emphasizing co-benefits motivates people to take action on climate change](#)

[The Guardian – October 1, 2015]

BLOGS/Commentary

Sacramento Bee Editorial Board on “[Time for a united front on climate change](#)”

[Sacramento Bee – October 29, 2015]

Bill McKibben on “[Imagine if Exxon had told the truth on climate change](#)”

[The Guardian – October 28, 2015] (*“With the oil giant vouching for the science of climate change 25 years ago, there is no way we would have wasted decades in fruitless argument”*)

Robert Semple Jr. on “[California leads the way on climate change](#)”

[New York Times – October 14, 2015]

The New York Times Editorial Board “[Teaching the truth about climate change](#)”

[New York Times – October 10, 2015] (*“Children today stand to inherit a climate severely changed by the actions of previous generations. They need to understand how those changes came about, how to mitigate them and how to prevent more damage to the planet. Schools can start by adopting science standards that deal extensively with human-caused climate change and that accurately reflect the scientific consensus”*)

Naomi Oreskes on “[Exxon’s climate concealment](#)” [New York Times – October 9, 2015] (*“We have lost precious time as a result: decades during which we could have built a smart electricity grid, fostered efficiency and renewables and generated thousands of jobs in a cleaner, greener economy. There is still time to prevent the worst disruptions of human-driven climate change, but the challenge is now much greater than it needed to be, in no small part because of the choices that Exxon Mobil made”*)

Thomas Friedman on “[Stuff happens to the environment, like climate change](#)”

[New York Times – October 7, 2015]

The Washington Post Editorial Board on “[The U.S. should lead with confidence on climate change](#)” [Washington Post – October 2, 2015]

Additional Items of Interest

[website] [Climate Change and President Obama’s Action Plan](#) [The White House – October 2015] (*this website has a fantastic overview of the Clean Power Plan*)

[As concerns mount over fossil fuels becoming 'stranded assets', experts warn of looming financial crisis](#) [ClimateWire – October 30, 2015]

[These 4 Republican senators are forming a group to tackle climate change](#)
[Think Progress – October 30, 2015]

[Governments to raise \\$22 billion from carbon pricing in 2015: report](#)
[Reuters – October 28, 2015]

[Scientists blast LA Times story on wildfires and climate change](#)
[Media Matters – October 26, 2015]

[How a selfish world can still avoid catastrophic climate change](#)
[New Scientist – October 26, 2015]

[If a major economy takes the lead, warming could be limited to 2°C](#)
[Science Daily – October 26, 2015]

[Climate Change Special Issue](#) [National Geographic – October 2015]

[The graphic that shows why 2015 global temperatures are off the charts](#)
[Sydney Morning Herald – October 22, 2015]

[Pollution could buy an extra decade of Arctic sea ice](#) [Scientific American – October 22, 2015]

[Numerous states prepare lawsuits against Obama's climate policy](#)
[New York Times – October 22, 2015]

[Is this the last year below 400?](#) [Scripps Institution of Oceanography – October 21, 2015]
("Leader of Keeling Curve measurement says temporary bump from El Niño could push atmospheric CO2 levels above the symbolic threshold for good")

[2015 likely to be hottest year ever recorded](#) [New York Times – October 21, 2015]

[And now for some good news about climate change](#) [National Geographic – October 21, 2015]

[These world leaders agree: We need a price on carbon](#) [Climate Progress – October 20, 2015]

[Exxon's climate change denial warrants federal inquiry, congressmen say](#)
[The Guardian – October 16, 2015] *("Members of Congress claim that oil company's 'sustained deception campaign' could be prosecuted through truth in advertising and racketeering laws")*

[Climate change requires new conservation models](#) [Science Daily – October 15, 2015] (*“In a world transformed by climate change and human activity, conserving biodiversity and protecting species will require an interdisciplinary combination of ecological and social research methods”*)

[Why restoring nature could be the key to fighting climate change](#) [Time – October 14, 2015]

[Historical record links warming with massive wildfires in Rockies](#)

[ClimateWire – October 6, 2015]

[A story of hope: The Guardian launches phase II of its climate change campaign](#)

[The Guardian – October 5, 2015]

[Defunding climate change](#) [The New Yorker – October 2, 2015]

[Global Analysis – September 2015](#) [NOAA – September 2015] (*“The combined average temperature over global land and ocean surfaces for September 2015 was the highest for September in the 136-year period of record, at 0.90°C (1.62°F) above the 20th century average of 15.0°C (59.0°F), surpassing the previous record set last year in 2014 by 0.12°C (0.19°F). This marks the fifth consecutive month a monthly high temperature record has been set and is the highest departure from average for any month among all 1629 months in the record that began in January 1880.”*)

Images to Ponder

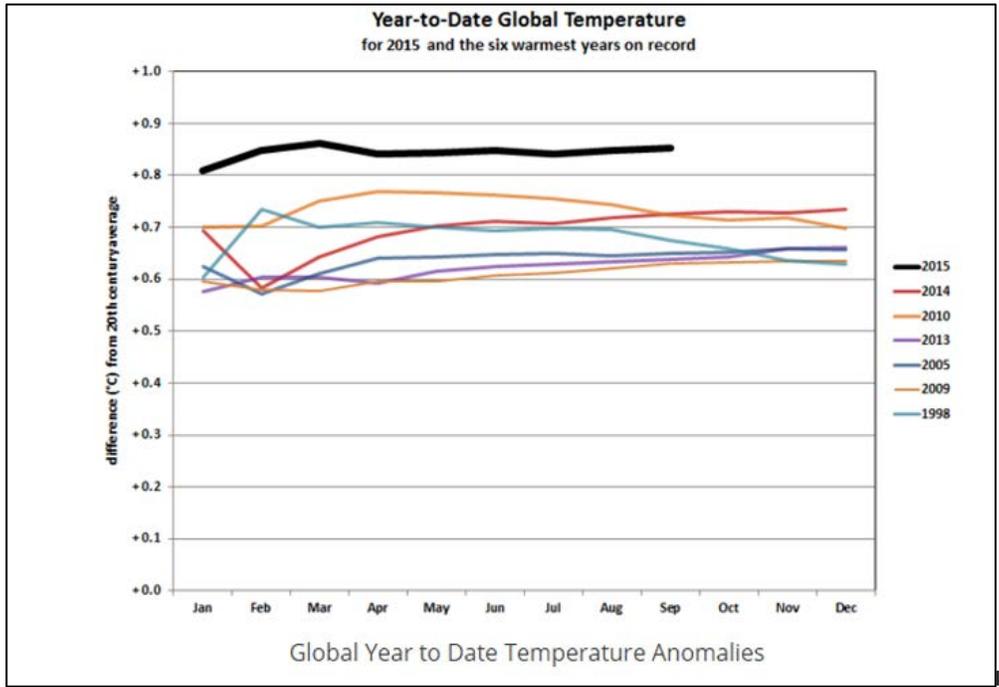


Image credit: <http://www.smh.com.au/environment/climate-change/the-graphic-that-shows-why-2015-global-temperatures-are-off-the-charts-20151021-gkf8b0.html>

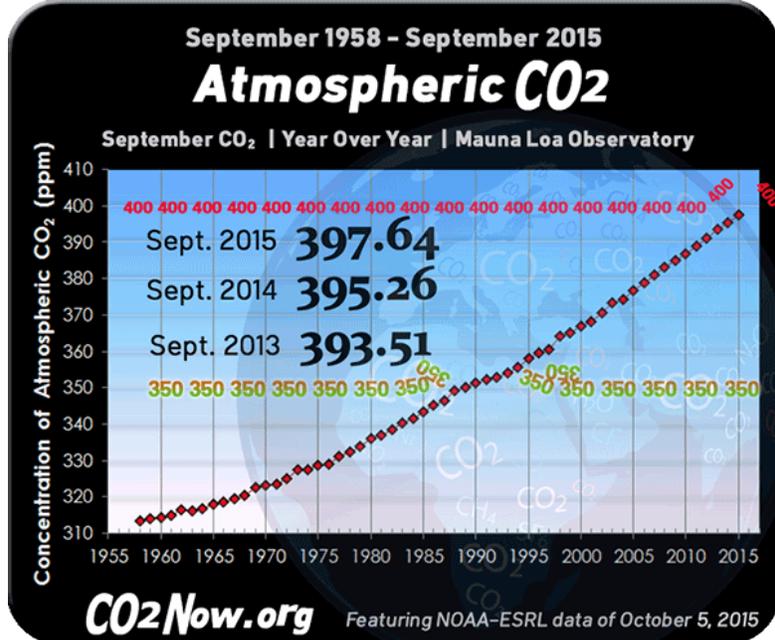


Image credit: <http://co2now.org/>

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