



## *DWR Climate News Digest*

*November 25<sup>th</sup> - December 30<sup>th</sup>, 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.

To subscribe to the DWR Climate News listserv and receive notifications when new editions are posted, send an email to: [climatechange@water.ca.gov](mailto:climatechange@water.ca.gov).

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

### **Sea-level Rise and other Ocean Impacts**

[Greenland's contribution to sea-level rise may be much larger than expected, studies warn](#)

[Climate Wire – December 16, 2014]

[Salinity counts when it comes to sea level](#) [Science Daily – November 20, 2014]

### **Agriculture/Food Production**

[Chardonnay and Pinot Noir under threat from climate change](#)

[The Telegraph – December 28, 2014]

[Drones: Saving wine from climate change](#) [Red Orbit – December 22, 2014]

[Climate change could cut 18 percent of world food production by 2050](#)

[PBS Newshour – December 18, 2014]

[Climate change could slash coffee production](#)

[American Association for the Advancement of Science – December 17, 2014]

[Climate change creates new geography of food](#) [Truth-Out.org – December 14, 2014]

November 25<sup>th</sup> to December 30<sup>th</sup>, 2014

[Eating less meat essential to curb climate change, says report](#)

[The Guardian – December 2, 2014]

**General Water Management**

[Water's role in the rise and fall of the Roman Empire](#) [Science Daily – December 11, 2014]

**Extreme Weather Events**

[Heatwaves in Europe 10 times as likely with climate change](#)

[Nature World News – December 9, 2014]

[Once-in-1200 year California drought bears signature of climate change](#) [Climate Progress – December 8, 2014] (*"It is the combination of reduced precipitation and record temperatures that make this a 1-in-1200 year drought"*)

**Human Health Impacts**

[Video: Connecting climate change and health](#) [Indian Country Today – December 25, 2014]

[Risk of dengue increases due to climate change, city growth: research](#)

[Reuters – December 23, 2014] (*"...as the planet warms, dengue could spread to large parts of Europe and mountainous regions of South America which are too cold currently to sustain mosquito populations year-round"*)

[White House issues climate change guide for hospitals](#) [USA Today – December 15, 2014]

[Deadly cholera outbreaks could increase with climate change](#)

[Live Science – December 16, 2014]

**Tribal Impacts & Traditional Ecological Knowledge**

[This doomed Alaskan village shows just how unprepared we are for climate change](#)

[Grist – December 15, 2014]

[Obama names two tribes among 16 Climate Action Champions nationwide](#)

[Indian Country Today – December 5, 2014] (*"The Blue Lake Rancheria Tribe of California and the Sault Ste. Marie Tribe of Chippewa Indians each won for a diversity of efforts in preventing, preparing for and adapting to climate change"*)

[11-year olds 'talking strike' for climate change goes viral](#)

[Indian Country Today – December 3, 2014] (*a young Indigenous environmental activist has not spoken since October 27<sup>th</sup>, 2014 to bring attention to the lack of action by world leaders on climate change*)

## **Wildlife and Ecosystem Impacts**

[SDSU scientists: Climate change may limit size of nation's "duck factory"](#) [Capital Journal – December 29, 2014]

[Climate change forecast to alter the Pine Barrens](#) [Philly.com – December 23, 2014]

[Forests around the world affected by climate change](#) [PhysOrg – December 23, 2014]

[Heart problems triggered by climate change could devastate Chinook salmon stocks](#)

[University of British Columbia News – December 22, 2014] (*"The researchers concluded that there's a five percent chance of catastrophic loss of Chinook salmon by 2075 and a 98 percent chance the population will suffer catastrophic losses by 2100"*)

[Alaska fish adjust to climate change by following spawning salmon](#)

[Science World Report – December 22, 2014]

[UC Davis to help in UC effort to study the effects of climate change on ecosystems](#)

[UC Davis – December 17, 2014]

[Climate change driving fish north, Rutgers research shows](#) [NJ.com – December 16, 2014]

[Climate change challenge for animals reliant on external sources of heat](#)

[PhysOrg – December 9, 2014]

[Wetlands more vulnerable to invasives as climate changes](#) [EurekaAlert – December 9, 2014]

(*"...over time these changes will reduce the diversity of plants found in many wetlands and could affect the wetlands' ability to mitigate flooding, store carbon, filter out water pollution and provide habitat for native wildlife"*)

## **Greenhouse Gas Mitigation**

[Curbing fugitive methane costs little, buys time on climate change](#)

[The Hill – December 29, 2014]

[Carbon-trapping 'sponges' can cut greenhouse gases](#) [Science Daily – December 16, 2014]

[Cover crops can sequester soil organic carbon](#) [Science Daily – December 2, 2014]

## **Climate Adaptation**

[Shape-shifting may help some species cope with climate change, study shows](#)

[PhysOrg – December 22, 2014]

[Let nature play a role in climate adaptation, experts urge](#) [Reuters – December 13, 2014]

November 25<sup>th</sup> to December 30<sup>th</sup>, 2014

## **International Planning**

### **[Crowdfunded “ice stupas” help Ladakh adapt to climate change](#)**

[Responding to Climate Change – December 30, 2014]

### **[As others balk, Latin America moves forward on climate change](#)**

[World Politics Review – December 23, 2014]

### **[Climate change ‘will foster terrorism and fuel immigration to UK’](#)**

[Telegraph – December 12, 2014]

### **[As Mexico addresses climate change, critics point to shortcomings](#)**

[New York Times – November 29, 2014]

## **Communicating Climate Change**

### **[6 ways new media are getting it right on climate change – and 1 that’s very wrong](#)**

[Media Matters – December 29, 2014]

### **[2014’s most skewed, misleading, and wrong pieces of climate and environment coverage](#)**

[Climate Progress – December 22, 2014]

### **[Family holiday survival: 12 ways to deal with that climate change denier](#)**

[Science 2.0 – December 21, 2014]

### **[The 7 psychological reasons that are stopping us from acting on climate change](#)**

[Washington Post – December 11, 2014] (*“The ecoAmerica/CRED report concludes that to make people care about climate change, you have to make the issue immediate, local, personal, and emphasize ideologically congenial solutions”*)

### **[Spread the word about birds and climate change](#)** [Audubon – November 19, 2014] (*“Concerned about climate change but don’t know how to bring it up with loved ones? Here’s how.”*)

## **BLOGS/Commentary**

### **Joe Romm on “[Irreversible but not unstoppable: The ghost of climate change yet to come](#)”**

[Think Progress – December 24, 2014]

### **Peter Gleick on “[The answer to human-caused climate change is in](#)”**

[Sacramento Bee – December 21, 2014] (*“Science cannot at the moment tell us much about whether climate changes have caused any particular extreme event. But scientists from many different fields now see parallel lines of evidence from a combination of basic climate science, models and real-world observations that human-caused climate change is already influencing and worsening the risks of extremes such as heat waves, droughts and floods”*)

November 25<sup>th</sup> to December 30<sup>th</sup>, 2014

**Ari Phillips on ["9 things scientists did this year to ensure a better climate future"](#)**

[Climate Progress – December 15, 2014]

**Joe Romm on ["Top scientists to media: Stop using 'skeptical' to describe climate science deniers"](#)** [Climate Progress – December 10, 2014]

**Joe Romm on ["Once-in-1200-year California drought bears signature of climate change"](#)** [Think Progress – December 8, 2014]

**Rebecca Solnit on ["Are we missing the big picture on climate change?"](#)**

[New York Times – December 2, 2014] (*"And so we should seek out new kinds of stories – stories that make us more alarmed about our conventional energy sources than the alternatives, that provide context, that show us the future as well as the past, that make us see past the death of a sparrow or swallow to the systems of survival for whole species and the nature of the planet we leave to the future"*)

### **Additional Items of Interest**

**[Inside the Lima climate change summit: 5 reasons to be hopeful](#)**

[Rolling Stone – December 29, 2014]

**[Climate shift in the Pacific may accelerate global warming](#)**

[Sydney Morning Herald – December 29, 2014]

**[In 83 speeches, senator pushes for climate change](#)** [Seattle Times – December 29, 2014]

**[Pope Francis expected to instruct one billion Catholics to act on climate change](#)**

[Think Progress – December 28, 2014]

**[What might the future look like if we took climate change seriously?](#)**

[The Energy Collective – December 27, 2014] (*"A new analysis lays out several detailed "pathways" to a low-carbon future for the United States, and offers practical guidance for policy makers. The bottom line is that there are multiple ways we can significantly reduce greenhouse gas emissions, with known technologies and with an incremental cost equivalent to less than 1 percent of gross domestic product....The analysis explores four scenarios described by the technology they use most heavily to meet the GHG target: High Renewables, High Nuclear, High Carbon Capture and Storage (CCS) and a Mixed Case that uses a combination of these technologies"*)

**[The climate for 2015: Everything's coming together while everything falls apart](#)**

[Grist – December 27, 2014] (*"If everyone who's passionate about climate change, who gets that we're living in a moment in which the fate of the Earth and humanity is actually being decided, found their place in the movement, amazing things could happen"*)

November 25<sup>th</sup> to December 30<sup>th</sup>, 2014

**[The 5 most important developments in climate change in 2014](#)**

[The Week – December 26, 2014]

**[2015: The year businesses recognize that climate change is real](#)**

[The Guardian – December 24, 2014]

**[Climate change could cost U.S. coasts \\$1 trillion by 2100](#)**

[American Association for the Advancement of Science – December 22, 2014]

**[Staff picks: An evangelical Christian believer in climate change](#)** [NPR – December 21, 2014]

**[Ohio State professor: History has well written the dangers of climate change](#)**

[The Lantern – December 18, 2014]

**[NHL defends ice in new push against climate change](#)** [The Hill – December 18, 2014]

**[WH \(White House\): Agencies should factor for climate change in project reviews](#)**

[The Hill – December 18, 2014]

**[Lima: Climate change optimism returns to Earth](#)** [The Diplomat – December 17, 2014]

**[Climate change: The Reader's Choice winner](#)** [Politifact.com – December 17, 2014]

**[2014 will be the hottest year on record](#)** [Skeptical Science – December 17, 2014]

**[New PBS special 'Extreme Realities' explores security threat from climate change](#)**

[Huffington Post – December 16, 2014]

**[As carbon dioxide grows, tropical trees do not](#)** [Scientific American – December 16, 2014]

**[Global warming 65 million years ago holds lessons for climate change today](#)**

[CBS News – December 15, 2014]

**[Massive study provides first detailed look at how Greenland's ice is vanishing](#)**

[Science Daily – December 15, 2014]

**[Good COP, bad, COP: Winners and losers at the Lima climate conference](#)**

[The Carbon Brief – December 15, 2014]

**[A climate accord based on global peer pressure](#)** [New York Times – December 14, 2014]

**[Climate change won't dry up Southern California, study finds](#)** [LA Times – December 11, 2014]

**[video] [Watch: Climate change explained in 60 second animation](#)**

[The Telegraph – December 11, 2014]

**[Unleashing climate data and innovation for more resilient ecosystems](#)**

[The White House – December 9, 2014] (*“The newly released datasets – which include critical information about streamflow, soil, landcover, and biodiversity and are complemented by tools to overlay and visualize them – will be extremely valuable to natural resource managers faced with day-to-day and long-term strategic decisions about how to operate in the context of climate change”*)

**[Unilever CEO: We need to do more to fight climate change](#)**

[Business Insider – December 8, 2014]

**[In world first, researchers convert sunlight to electricity with over 40 percent efficiency](#)**

[Science Daily – December 7, 2014]

**[Why increasing Antarctic sea ice doesn't mean climate change isn't happening](#)**

[Business Insider – December 4, 2014]

**[Fighting climate change and poverty at the same time](#)** [World Bank – December 4, 2014]

**[Hottest year on record as climate talks heat up](#)** [Sydney Morning Herald – December 4, 2014]

**[Localized climate change contributed to ancient southwest depopulation](#)**

[Science Daily – December 4, 2014]

**[Carbon dioxide warming effects felt just a decade after being emitted](#)**

[Science Daily – December 3, 2014]

**[West Antarctic melt rate has tripled in the last decade](#)** [Science Daily – December 2, 2014]

**[55 percent of carbon in Amazonian indigenous territories and protected lands may be at risk](#)**

[Science Daily – December 2, 2014]

**Images to Ponder**

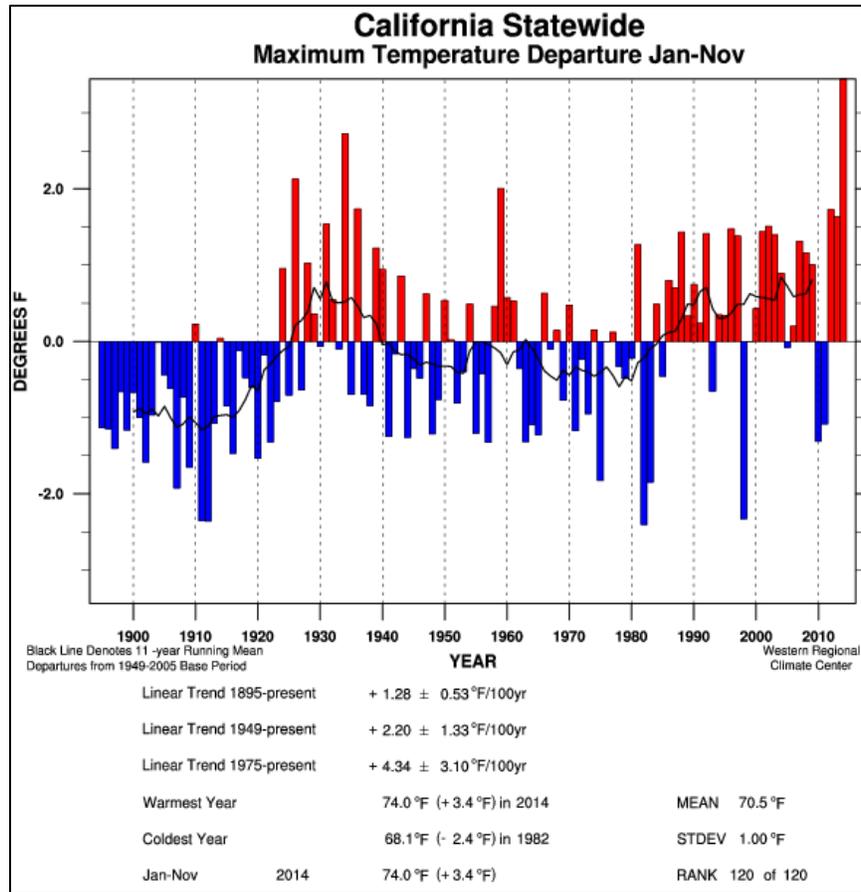


Image source: <http://www.wrcc.dri.edu/monitor/cal-mon/>



Image source: <http://www.theguardian.com/world/2014/dec/27/pope-francis-edict-climate-change-us-rightwing>

Current and past editions of the DWR Climate News Digest can be viewed and downloaded at: <http://www.water.ca.gov/climatechange/news.cfm>. Please email questions, comments, or listserv subscription requests to: [climatechange@water.ca.gov](mailto:climatechange@water.ca.gov).