DWR Climate News Digest

February 21st - March 31st, 2014

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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]

Reports

Climate Change 2014: Impacts, Adaptation, and Vulnerability - Summary for Policymakers (pdf) [Intergovernmental Panel on Climate Change - March 2014] (This report "...evaluates how patterns of risks and potential benefits are shifting due to climate change. It considers how impacts and risks related to climate change can be reduced and managed through adaptation and mitigation. The report assesses needs, options, opportunities, constraints, resilience, limits, and other aspects associated with adaptation")

What We Know [American Association for the Advancement of Science - March 2014] ("There may be no more pressing issue intersecting science and society than climate change and the What We Know Initiative was born in response to that reality")

A Discussion on Climate Change: Evidence and Causes [Royal Society and US National Academy of Sciences - March 2014]


Hot and Hungry: How to Stop Climate Change Derailing the Fight Against Hunger [Oxfam - March 2014]
Ecohydrologic Impacts of Climate and Land Use Changes on Watershed Systems: A Multi-Scale Assessment for Policy
[PhD Dissertation - University of Massachusetts - September 2013]

Published Literature

Harnessing ecosystem-based adaptation to address the social dimensions of climate change
[Environment: Science and Policy for Sustainable Development - January 2014]

Global warming in an independent record of the past 130 years
[Geophysical Research Letters - January 2014]

Sea-level Rise and other Ocean Impacts

These two maps show how climate change is destroying the oceans
[Business Insider - March 31, 2014]

Deep ocean current may slow due to climate change, Penn research finds
[E! Science News - March 22, 2014]

Fears of faster rising global sea levels as 'stable' Greenland ice sheet starts to melt
[The Independent - March 16, 2014]

Ocean food web is key in the global carbon cycle [Science Daily - March 11, 2014]

Agriculture/Food Production

Anyone who eats food needs to see these three charts from a massive report on climate change
[Business Insider - March 30, 2014]

Climate change could leave another 50 million people facing hunger by 2050
[The Guardian - March 24, 2014]

Heat extremes threaten crop yields - study [The Daily Climate - March 21, 2014]

California drought to drive up food prices in the long term
[San Jose Mercury News - March 11, 2014]

Food production in northeastern U.S. may need to change if climate does
[Science Daily - February 28, 2014]

General Water Management

California's drought-prone pattern forcing farmers to adapt [SF Gate - March 8, 2014]
**Extreme Weather Events**

*Yes, manmade global warming is worsening California's epic drought*

[The Energy Collective - March 25, 2014]

**WMO Annual Climate Statement Highlights Extreme Events**

[WMO - March 24, 2014]

**UN says 2013 'extreme' weather events due to human-induced climate change**

[Fox News - March 24, 2014]

**Linking storms to climate change a 'distraction', says experts**

[PhysOrg - March 20, 2014]

**Number of days without rain to dramatically increase in some world regions**

[Scripps Institution of Oceanography - March 13, 2014]

**Human Health Impacts**

**How climate change brings disaster for the world's poor: UN report**

[International Business Times - March 31, 2014]

**Giant active 30,000 year-old virus resurrected from Siberian permafrost**

[Science World Report - March 4, 2014]

**Is West Nile virus coming to your town? UCLA releases first risk-assessment predictions**

[UCLA Newsroom - February 28, 2014]

**Wildlife and Ecosystem Impacts**

**Salamanders shrinking as their mountain havens heat up**

[Eurekalert - March 25, 2014] (*This is one of the largest and fastest rates of change ever recorded in any animal*)

**Mapping changes in soil biodiversity due to climate change**

[Scientific American - March 19, 2014]

**Study: Rockies' wildflower season 35 days longer from climate change**

[LA Times - March 17, 2014]

**International Planning**

**Asia will bear brunt of climate change, UN panel report says**

[The Star - March 30, 2014]

**US government launches grant program to support climate change initiatives in the Pacific Islands region**

[The Jet - March 26, 2014]
Heatproofing London: Climate change raises city heat death risk, but adaptation can cut the impact [The Carbon Brief - March 20, 2014]

Gov't establishes network to implement climate change provisions [Jamaica Observer - March 20, 2014]

How to mitigate climate change in Africa [New Vision - March 7, 2014]

Climate change one of the most serious threats we face, says David Cameron [Guardian - February 26, 2014]

BLOGS/Commentary

Dana Nuccitelli on "IPCC report warns of future climate change risks, but is spun by contrarians" [The Guardian - March 30, 2014]

Kathy Calvin "5 things to know about how climate change impacts the world" [Huffington Post - March 31, 2014]

David Slayton and David Titley on "Time for real leadership on climate change, energy, national security" [Fox News - March 31, 2014]

Richard Merrick on "As our climate changes, we must base our policies in sound science" [NOAA Fisheries - March 11, 2014] (A message from the Chief Scientist for NOAA Fisheries)

James Hansen on "World's greatest crime against humanity and nature" [Columbia University - March 10, 2014]

Michael Mann on "If you see something, say something" [New York Times - January 17, 2014]

Additional Items of Interest

Tom Steyer: An Inconvenient Billionaire [Men's Journal - March 2014]

If this terrifying report doesn't wake you up to the realities of what we're doing to this planet, what will? [Climate Desk - March 31, 2014]

Climate change impact is wide, U.N. says [Wall Street Journal - March 31, 2014]

Climate change could cost more than $100 billion a year [CNN - March 31, 2014]

Revealed: How climate change ended world's first great civilizations [The Independent - March 26, 2014]
How open climate data can improve community resilience against climate change
[Tech Republic - March 25, 2014]

Network news climate change stories rarely report both impact, action
[Michigan News - March 25, 2014]

Scientists to climate change skeptics: Get real [CBS News - March 24, 2014]

Exxon agrees to detail carbon asset risks - activists [Reuters - March 20, 2014]

Key climate-change measurement imperiled [USA Today - March 19, 2014] ("The 'Keeling curve', the most famous measurement of the world's rising levels of carbon dioxide for the past six decades, is in jeopardy from funding shortfalls")

Obama turns to Web to illustrate the effects of a changing climate
[New York Times - March 19, 2014] ("...White House on Wednesday inaugurated a website, climate.data.gov, aimed at turning scientific data about projected droughts and wildfires and rise in sea levels into eye-catching digital presentations that can be mapped using simple software apps.")

[website] Climate.Data.gov [Data.gov] ("In this new and pilot-state of Climate.Data.gov, you will find resources to help companies, communities, and citizens understand and prepare for the impacts of coastal flooding and sea level rise. Over time, you'll find more datasets, web services, and tools, as well as other themes such as the vulnerability of the food supply and threats to human health from climate change")

Google, Intel, Microsoft help build climate change tools [USA Today - March 19, 2014]

[FACT SHEET] The President's Climate Data Initiative: Empowering America's Communities to Prepare for the Effects of Climate Change [White House - March 19, 2014]

'The Long Hedge' - new book helps companies prepare for climate change
[Forbes - March 19, 2014]

Earth will cross the climate danger threshold by 2036 [Scientific American - March 18, 2014]

Scientist sound alarm on climate [New York Times - March 18, 2014] (Nobel prize winning chemist Mario Molina, who helped discover that chlorofluorocarbons were breaking down the ozone layer, led a committee of the American Association for the Advancement of Science to produce a stark report on global warming)

Greenland's ice loss nearly tripled in a decade [USA Today - March 16, 2014]
30 senators stay up for climate change - a turning point for US policy? [The Guardian - March 14, 2014]

In U.S., most do not see global warming as serious threat [Gallup - March 13, 2014]

Number of days without rain to dramatically increase in some world regions [Scripps Institute of Oceanography - March 13, 2014]

Long-term warming likely to be significant despite recent slowdown [Science Daily - March 11, 2014]

28 senators are staying up all night to bring attention to climate change [Climate Progress - March 10, 2014]

Can the solution to climate change help eliminate poverty? [Science Daily - March 10, 2014]

Why women are the secret weapon to tackling climate change [CNN - March 6, 2014]

Infrastructure threatened by climate change poses a national crisis [Scientific American - March 6, 2014]

How climate change ended world's first great civilizations [New Zealand Herald - March 4, 2014]

Climate change linked to disappearance of ice free regions in Antarctica [Science World Report - March 4, 2014]

Pentagon warns of climate change 'threat multipliers' [Washington Examiner - March 4, 2014]

Big thaw projected for Antarctic sea ice: Ross Sea will reverse current trend, be largely ice free in summer by 2100 [Science Daily - February 27, 2014]

Climate change: No warming hiatus for extreme hot temperatures [Science Daily - February 26, 2014]

Study: Volcanoes contribute to recent warming 'hiatus' [MIT news - February 23, 2014]

Remarks on climate change [US Department of State - February 16, 2014] (Secretary Kerry in Jakarta, Indonesia - "Make no mistake: the technology is out there. None of this is beyond our capacity. I am absolutely confident that if we choose to, we will meet this challenge. Remember: we’re the ones – we, all of us, the world – helped to discover things like penicillin and we eradicated smallpox. We found a way to light up the night all around the world with a flip of the switch and spread that technology to more than three quarters of the world’s population. We came up with a way for people to fly and move from one place to another in the air between cities and across oceans, and into outer space. And we put the full wealth of human knowledge into a device we can hold in our hand that does all of the thinking that used to take up a whole..."
room almost this size. Human ingenuity has long proven its ability to solve seemingly insurmountable challenges.

**Independent evidence confirms global warming in instrument record**
[NOAA - December 2012] ("A new compilation of temperature records etched into ice cores, old corals, and lake sediment layers reveals a pattern of global warming from 1880 to 1995 comparable to the global warming trend recorded by thermometers")

**54-year old message in bottle helps chronicle death of glacier**
[Chronicle Herald - December 16, 2014]

**Images to Ponder**


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