

The Ocean In A Warming Climate  
Workshop, March 21, 2009

**Articles, Books**

**BY SPEAKER DR. JOSHUA WILLIS**

“It’s a Sure Bet”

Dr. Willis explains Climate Change.

<http://blogs.jpl.nasa.gov/?p=8>

**CLIMATE CHANGE**

From National Public Radio

“In the Arctic, A Time-Lapse View of Climate Change” (March 2009)

<http://www.npr.org/templates/story/story.php?storyId=102041024&ft=1&f=1007>

From *ScienceDaily*:

“Climate-related Changes Affect Life On The Antarctic Peninsula” (March 2009)

<http://www.sciencedaily.com/releases/2009/03/090312140848.htm>

“Climate Change: A Dark Future for Migratory Fish” (December 2008)

<http://www.sciencedaily.com/releases/2008/12/081212143527.htm>

“Goose Eggs May Help Polar Bears Weather Climate Change” (December 2008)

<http://www.sciencedaily.com/releases/2008/12/081215111303.htm>

“Abrupt Climate Change Focus of U.S. National Laboratories” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080918192943.htm>

“Earth Has Had Sharp Climatic Shifts in Past: Is Earth Nearing Another Tipping Point?” (Sept 2008)

<http://www.sciencedaily.com/releases/2008/09/080902075735.htm>

From NOAA (National Oceanic and Atmospheric Administration)

“New Study Shows Climate Change Largely Irreversible” (January 2009)

[http://www.noaaneews.noaa.gov/stories2009/20090126\\_climate.html](http://www.noaaneews.noaa.gov/stories2009/20090126_climate.html)

From Miller-McCune:

“Climate Change Gets a Voice” (December 2008)

<http://www.miller-mccune.com/article/Climate-Change-Gets-a-Voice>

From ENN – Environmental News Network:

“Abrupt Climate Shifts May Move Faster Than Thought” (December 2008)

[http://www.enn.com/top\\_stories/article/38913](http://www.enn.com/top_stories/article/38913)

From Yale Environment 360:

“A Reporter’s Field Notes on The Coverage of Climate Change” (March 2009)

<http://www.e360.yale.edu/content/feature.msp?id=2130>

**GLOBAL WARMING**

Global Warming is Man-Made: Key points in the International Panel on Climate Change 2007 Report

<http://livinggreen.info/LvGnGiblWarmgIPCCRpt.pdf>

The Ocean In A Warming Climate  
Workshop, March 21, 2009

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From NASA's Online World Book:

“Global Warming”

[http://www.nasa.gov/worldbook/global\\_warming\\_worldbook.html](http://www.nasa.gov/worldbook/global_warming_worldbook.html)

From Columbia Journalism Review:

“Gallup: Many Americans Think Media Exaggerate Global Warming” (March 2009)

[http://www.cjr.org/the\\_observatory/gallup\\_many\\_americans\\_think\\_me.php](http://www.cjr.org/the_observatory/gallup_many_americans_think_me.php)

From *ScienceDaily*:

“Sea Level Rise Due to Global Warming Poses Threat To New York City” (March 2009)

<http://www.sciencedaily.com/releases/2009/03/090315155112.htm>

“Wind Shifts May Stir Carbon Dioxide From Antarctic Depths, Amplifying Global Warming” (March 2009)

<http://www.sciencedaily.com/releases/2009/03/090312140842.htm>

“Global Warming From Carbon Dioxide Will Increase Five-fold Over The Next Millennium, Scientists Predict” (January 2009)

<http://www.sciencedaily.com/releases/2009/01/090128104533.htm>

“Dramatic Expansion of Dead Zones in Oceans Likely With Unchecked Global Warming” (January 2009)

<http://www.sciencedaily.com/releases/2009/01/090125142118.htm>

“NASA Study Links Severe Storm Increases, Global Warming” (December 2008)

<http://www.sciencedaily.com/releases/2008/12/081227214927.htm>

“Thawing Permafrost Likely to Boost Global Warming, New Assessment Concludes” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080901084854.htm>

From the Wall Street Journal:

“The Warming Earth Blows Hot, Cold and Chaotic” (January 2009)

[http://online.wsj.com/article/SB123085070980447477.html?mod=rss\\_Science\\_Journal](http://online.wsj.com/article/SB123085070980447477.html?mod=rss_Science_Journal)

From Time Magazine:

“Is Global Warming Worsening Hurricanes?” (September 2008)

<http://www.time.com/time/health/article/0,8599,1839281,00.html>

From National Geographic:

National Geographic News Global Warming Fast Facts (updated 2007)

[http://news.nationalgeographic.com/news/2004/12/1206\\_041206\\_global\\_warming.html](http://news.nationalgeographic.com/news/2004/12/1206_041206_global_warming.html)

*You Can Fight Global Warming, Authors Urge* (2003)

[http://news.nationalgeographic.com/news/2003/04/0422\\_030422\\_conservationtips.html](http://news.nationalgeographic.com/news/2003/04/0422_030422_conservationtips.html)

The Ocean In A Warming Climate  
Workshop, March 21, 2009

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From Earthwatch Radio:

“Avoiding the Big Chill” (July 2006)

Some scientists say global warming could produce local cooling in Europe and North America  
<http://ewradio.org/program.aspx?ProgramID=4312>

“The Hot and Cold Cycle of Life” (Jan 2007)

A warmer world could change the temperature of the ocean, and that could have profound consequences for marine plants and animals.

<http://ewradio.org/program.aspx?ProgramID=4358>

From The Washington Post Op-Ed

“Dark Green Doomsayers” (February 2009)

George Will (baseball columnist)

<http://www.washingtonpost.com/wp-dyn/content/article/2009/02/13/AR2009021302514.html>

Responses to his article:

“Cherry-Picked Facts Heat Up Climate Debate” from the Albuquerque Journal

[http://www.abqjournal.com/opinion/guest\\_columns/1897180018opinionguestcolumns02-18-09.htm](http://www.abqjournal.com/opinion/guest_columns/1897180018opinionguestcolumns02-18-09.htm)

“Checking George Will: The Perils of Time Travel” from Discover.com

<http://blogs.discovermagazine.com/loom/>

“The Heat From A Global Warming Column” from Ombudsman Andrew Alexander at the Washington Post

<http://www.washingtonpost.com/wp-dyn/content/article/2009/02/27/AR2009022702334.html>

**OCEAN ACIDIFICATION**

From Science Magazine

“The Dangers of Ocean Acidification” (2005)

[www.precaution.org/lib/06/ocean\\_acidification\\_from\\_c02\\_060301.pdf](http://www.precaution.org/lib/06/ocean_acidification_from_c02_060301.pdf)

Carbon Dioxide and Our Ocean Legacy

<http://www.pmel.noaa.gov/pubs/PDF/feel2899/feel2899.pdf>

From US News & World Report

“Growing Acid Problem Thins Shells of Ocean Creatures” (March 2009)

[http://www.usnews.com/articles/science/environment/2009/03/08/growing-acid-problem-thins-shells-of-ocean.html?s\\_cid=et-0313](http://www.usnews.com/articles/science/environment/2009/03/08/growing-acid-problem-thins-shells-of-ocean.html?s_cid=et-0313)

From ScienceDaily:

“Coral Reefs May Start Dissolving When Atmospheric Carbon Dioxide Doubles” (March 2009)

<http://www.sciencedaily.com/releases/2009/03/090309162125.htm>

Ocean Acidification: “Ocean Acidification from Carbon Dioxide Emissions Will Cause Physiological Impairment to Jumbo Squid” (December 2008)

<http://www.sciencedaily.com/releases/2008/12/081215184321.htm>

Ocean Acidification: “Sounds Travel Farther Underwater as World’s Oceans Become More Acidic” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080929144116.htm>

The Ocean In A Warming Climate  
Workshop, March 21, 2009

**Articles, Books**

“Modest Carbon Dioxide Cutbacks May Be Too Little, Too Late for Coral Reefs” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080922155914.htm>

From National Public Radio (NPR):

“Mussels Lose Out As Carbon Dioxide Changes Ocean” (November 2008)

<http://www.npr.org/templates/story/story.php?storyId=97412198>

**POLES/GLACIERS**

From *ScienceDaily*:

“Arctic Heats Up More Than Other Places: High Sea Level Rise Predicted” (January 2009)

<http://www.sciencedaily.com/releases/2009/01/090116111135.htm>

“Small Glaciers – Not Large – Account for Most of Greenland’s Recent Loss of Ice, Study Shows” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080915121319.htm>

“Glaciers in the Pyrenees Will Disappear in Less Than 50 Years, Study Finds” (September 2008)

<http://www.sciencedaily.com/releases/2008/09/080905164328.htm>

“Continued Breakup of Two of Greenland’s Largest Glaciers Shown in Satellite Images” (August 2008)

<http://www.sciencedaily.com/releases/2008/08/080820174714.htm>

From The New York Times:

“Arctic Ocean Ice Retreats Less Than Last Year” (September 2008)

[http://www.nytimes.com/2008/09/17/science/earth/17ice.html?\\_r=1&oref=slogin](http://www.nytimes.com/2008/09/17/science/earth/17ice.html?_r=1&oref=slogin)

UN News Centre:

“World’s Glaciers Melting at Record Rate” (March 2008)

<http://www.un.org/apps/news/story.asp?NewsID=25995>

**SEA LEVEL RISE**

From National Geographic:

“Sea Level Rise Won’t be a Hollywood Cataclysm” (September 2008)

<http://news.nationalgeographic.com/news/2008/09/080904-sea-levels.html?source=rss>

From *ScienceDaily*:

“Sea Level Rise of One Meter Within 100 Years” (January 2009)

<http://www.sciencedaily.com/releases/2009/01/090108101629.htm>

“Global Warming: Sea Level Rise Could Be Twice As High As Current Projections, Greenland Ice Sheet Study Suggests” (February 2008)

<http://www.sciencedaily.com/releases/2008/02/080211172517.htm>

The Ocean In A Warming Climate  
Workshop, March 21, 2009

**Articles, Books**

Scientific American:

“A Deep Thaw: How Much Will Vanishing Glaciers Raise Sea Levels?” (September 2008)  
<http://www.sciam.com/article.cfm?id=how-much-will-global-warming-raise-sea-levels>

From the Guardian (a UK publication):

“Global warming: Sea level rise may accelerate due to melting ice sheet” (September 2008)  
<http://www.guardian.co.uk/science/2008/sep/01/sea.level.rise>

**SOCIO-ECONOMIC**

“Scientific uncertainty and public policy: Moving on without all the answers”  
[www.weatheroutreach.org/resources/uncertainty.pdf](http://www.weatheroutreach.org/resources/uncertainty.pdf)

News from the National Academies

“Federal government should give greater support to decision makers coping with climate change”  
(March 2009)  
<http://www8.nationalacademies.org/onpinews/newsitem.aspx?RecordID=12626>

From The New York Times:

“In Debate on Climate Change, Exaggeration Is a Common Pitfall” (February 2009)  
<http://www.nytimes.com/2009/02/25/science/earth/25hype.html?ref=us>

“Economic Crisis Complicates California's Goals on Climate” (February 2009)  
<http://www.nytimes.com/2009/02/25/science/earth/25carbon.html?ref=us>

From *ScienceDaily*:

“Scientists Agree Human-induced Global Warming is Real, Survey Says” (January 2009)  
<http://www.sciencedaily.com/releases/2009/01/090119210532.htm>

“Americans Eager to Reduce Their Energy Use” (January 2009)  
<http://www.sciencedaily.com/releases/2009/01/090114172312.htm>

“Developing Countries Lack Means to Acquire More Efficient Technologies” (December 2008)  
<http://www.sciencedaily.com/releases/2008/12/081209125931.htm>

“Decline of Roman and Byzantine Empires 1,400 Years Ago May Have Been Driven By Climate Change” (December 2008)  
<http://www.sciencedaily.com/releases/2008/12/081205171005.htm>

“Climate Change Could be Impetus for Wars, Other Conflicts, Expert Says” (August 2008)  
<http://www.sciencedaily.com/releases/2008/08/080821164304.htm>

From Miller-McCune:

“More Hype Equals Less Action on Climate Change” (April 2008)  
<http://www.miller-mccune.com/article/more-hype-equals-less-action-on-climate-change>

“States' Action and Climate Change” (February 2008)  
<http://www.miller-mccune.com/article/states%E2%80%99-action-and-climate-change/2>

The Ocean In A Warming Climate  
Workshop, March 21, 2009

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From The New York Times:

“Obama Urgent on Warming, Public Cool” (January 2009)

<http://dotearth.blogs.nytimes.com/2009/01/22/obamas-urgency-on-warming-meets-cool-public/?ref=earth>

From The Washington Post:

“Military Sharpens Focus on Climate Change” (April 2007)

<http://www.washingtonpost.com/wp-dyn/content/article/2007/04/14/AR2007041401209.html>

From the Economist:

“Blessed are the geeks, for they shall inherit the Earth” (January 2009)

[http://www.economist.com/science/displaystory.cfm?story\\_id=12887207](http://www.economist.com/science/displaystory.cfm?story_id=12887207)

From Gallup:

“Climate-Change Views: Republican-Democratic Gaps Expand” (May 2008)

<http://www.gallup.com/poll/107569/ClimateChange-Views-RepublicanDemocratic-Gaps-Expand.aspx>

From California State University, Long Beach

“Children’s misconceptions about weather: A review of the literature” (April 2009)

<http://www.csulb.edu/~lhenriqu/NARST2000.htm>

**MISCELLANEOUS**

What’s After the Day After Tomorrow?

<http://www.who.edu/page.do?pid=12455&tid=282&cid=9948>

From *ScienceDaily*:

“Orbiting Carbon Observatory Investigates Mystery of the Missing Sinks” (January 2009)

<http://www.sciencedaily.com/releases/2009/01/090126100148.htm>

From Miller-McCune:

“How Climate Change Will Affect What We Wear” (January 2008)

<http://www.miller-mccune.com/article/how-climate-change-will-affect-what-we-wear>

“Escape from Kyoto: Saving the Protocol” (November 2008)

<http://www.miller-mccune.com/article/escape-from-kyoto-saving-the-protocol>

From NASA

“What’s in a Name? Global Warming vs. Climate Change” (December 2008)

[http://www.nasa.gov/topics/earth/features/climate\\_by\\_any\\_other\\_name.html](http://www.nasa.gov/topics/earth/features/climate_by_any_other_name.html)

From The New York Times:

“Beyond Carbon: Scientists Worry About Nitrogen’s Effects” (September 2008)

<http://www.nytimes.com/2008/09/02/science/02nitr.html>

Johns Hopkins University: Applied Physics Laboratory

“The Great Ocean Conveyor Belt”

<http://fermi.jhuapl.edu/student/currents/conveyor.htm>

The Ocean In A Warming Climate  
Workshop, March 21, 2009

**Articles, Books**

**SCIENTIFIC LITERATURE**

- Bakun, A. 2009. Global climate change and intensification of coastal ocean upwelling. *Science*, 247: 198-201.
- Caldeira, K. and Wicket, M. E. 2003. Anthropogenic carbon and ocean pH. *Nature*, 425: 365.
- Gian-Reto, W., et. al. 2002. Ecological responses to recent climate change. *Nature*, 416: 389-395.
- Fabry, V. J., Seibel, B. A., Feely, R. A., and Orr, J.C. 2008. Impacts of ocean acidification on marine fauna and ecosystem processes. *ICES Journal of Marine Science*, 65: 414-432.
- Parmesan, C. and Yohe, G. 2003. A globally coherent fingerprint of climate change impacts across natural systems. *Nature*, 421: 37-42.

**BOOKS**

**Weather Watching**, The Nature Companions

By William J. Burroughs, Bob Crowder, Ted Robertson, Eleanor Vallier-Talbot, Consulting Editor:  
Richard Whitaker, Fog City Press, 2003  
ISBN: 1 740893 79 4

Contains several sections on climate change in Chapter 5: Changing Weather, including sections called "Measuring Climate Change", "Reasons for Climate Change", "The Greenhouse Effect", "Global Warming", and "The Evidence Mounts". Chapter 10 is about collecting Satellite and Space Imagery with photos taken from space of cyclones, fronts, thunderstorms, snow, and ice.

**An Ocean of Air: Why the wind blows and other mysteries of the atmosphere**

By Gabrielle Walker  
Harcourt, 2007

ISBN: Hardcover: 978-0-15-101124-7

Talks about scientists and their discoveries/contributions to science, including the discovery of the jet stream, why storms move in circles, first calculation of how heavy air really is, etc.

**The Long Thaw: How Humans Are Changing the Next 100,000 Years of Earth's Climate**

By David Archer  
Princeton University Press, 2008  
Hardcover

ISBN-10: 0691136548

ISBN-13: 978-0691136547

Archer shows how just a few centuries of fossil-fuel use will cause not only a climate storm that will last a few hundred years, but dramatic climate changes that will last thousands. Carbon dioxide emitted today will be a problem for millennia. For the first time, humans have become major players in shaping the long-term climate.

**The Better World Shopping Guide**

By Ellis Jones  
New Society Publishers, 2006  
Paperback

ISBN-10: 0865715769

ISBN-13: 9780865715769

"This book ranks every product on the shelf from A to F so you can quickly tell the "good guys" from the "bad guys" – turning your grocery list into a powerful tool to change the world. Representing over 15 years of research, the data is distilled and organized into the most common product categories including coffee, energy bars, computers, gasoline, clothing, banks, cars, water and more."