

Course introduction: AESA2 – decision making under change

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limate is changing • •



Climate Change - the media





Comments (2,076) |
Climate Change

ENTERTAINMENT



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Climate Change - star power



"Climate change is not science fiction, this is a battle in the real world, it is impacting us right now."



This is the only issue in the history of mankind that affects every single one of us. **Our planet is in danger.**

- Cameron Diaz

The time to answer the greatest challenge of our existence on this planet is now. You can make *history* or be vilified by it. - Leonardo Dicaprio 2014 UN Climate Summit Speech



https://www.youtube.com/watch?v=tyOPubbMqAA



Climate Change - world leaders



et n ma

"Since climate change and the global economy now affect us all, we have to develop a sense of the **oneness of** humanity."

-@DalaiLama

Malala's message to

BETTER

world leaders:

DO

"ACTION ON CLIMATE CHANGE IS URGENT. THE MORE WE DELAY, THE MORE WE WILL PAY IN LIVES AND IN MONEY."

The Climate Reality Project

- BAN KI-MOON secretary-general of the united nations

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CO2 and Temperature

https://www.youtube.com/watch?v=-JluKjaY3r4





Projections from IPCC AR4



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Impacts on water availability





Projections from IPCC AR5





Impacts on temperature and precipitation







Impacts on sea level: New York





Impacts on sea level: New York

LCADEN 26 BROADWAY After 2°C of warming

Impacts on sea level: New York



Climate change skeptics/deniers

Climate Change skeptics, also recently called deniers, refers to individuals or groups who disagree with the global scientific consensus that emissions of man-made CO2 significantly enhance the natural atmospheric greenhouse effect.



Climate Skeptic



Skeptic Summaries Cross-posted from CoyoteBlog What is Normal? Other Causes of Warming Warming Forecasts Climate Propaganda Climate Science Process Climate Socialists Temperature Measurement Temperature History





SKEPTIC SUMMARIES

LAYMAN'S PRIMER ON THE CLIMATE SKEPTIC POSITION





WHY WE ARE EXAGGERATING "EXTREME WEATHER"



SKEPTIC SUMMARIES

PRESENTATION: THE SCIENCE OF THE SKEPTIC POSITION



Urban growth biases temperature measures

USHCN Weather Station (Tucson, AZ)





Temperature trend is flat





Man or Nature?





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Man or Nature?

One Period is 1895-1946 ("nature") and the other Period is 1957-2008 (supposedly "Anthropogenic")



Both time and temperature scales are the same between graphs



Summer of the sharks

On July 6th, a 8-year old Mississippi boy was bitten by a shark at Santa Rosa Island.

Each subsequent attack received top netwerk TV visibility

Untill Sept. 11, shark attacks were 3° most important story of the year in terms of minutes on the national news

In Summer 2001, there were 76 attacks leading to 5 deaths





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In Summer 2001, there were 76 attacks leading to 5 deaths

In the previous year, 85 attacks led to 12 deaths





Public opinion

The climate change we are currently seeing is largely the result of human activity?





Scientific opinion



Abstract

We analyze the evolution of the scientific consensus on anthropogenic global warming (AGW) in the peer-reviewed scientific literature, examining 11 944 climate abstracts from 1991–2011 matching the topics 'global climate change' or 'global warming'. We find that 66.4% of abstracts expressed no position on AGW, 32.6% endorsed AGW, 0.7% rejected AGW and 0.3% were uncertain about the cause of global warming. Among abstracts expressing a position on AGW, 97.1% endorsed the consensus position that humans are causing global warming. In a second phase of this study, we invited authors to rate their own papers. Compared to abstract ratings, a smaller percentage of self-rated papers expressed no position on AGW (35.5%). Among self-rated papers expressing a position on AGW, 97.2% endorsed the consensus. For both abstract ratings and authors' self-ratings, the percentage of endorsements among papers expressing a position on AGW marginally increased over time. Our analysis indicates that the number of papers rejecting the consensus on AGW is a vanishingly small proportion of the published research.



Scientific opinion

IOPscience Journals 🔻 Books Login -Article lookup -**Environmental Research Letters** "Among abstracts expressing a position on AGW, 97.1% endorsed the consensus position that LETTER • OPEN ACCESS • IOPSELECT Quantifying the consensu humans are causing global warming" warming in the scientific John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶, Bärbel Winkler², Rob Painting², 'Ye Olde Hot Aire'^{*}: reporting Robert Way⁷, Peter Jacobs⁸ and Anarew Skuce^{2,9} + Share this article Published 15 May 2013 • 2013 IOP Publishing Ltd • Environmental Research Letters, Volume 8, Number 2 climate change in the UK tabloid press Article PDF The climate change

climate scientists

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Scientific opinion





Observed changes: Artic ice extent





Observed changes: Artic ice extent



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Observed changes: glaciers retreat



Pederse Glacier, Alaska



Observed changes: urban growth



Beijing, China





Observed changes: energy portfolio





Observed changes: deforestation



Amazon, Brazil



Observed changes: agricultural expansion







Observed changes: lakes drying up



Lake Urmia, Iran



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