

Some Videos, Articles and Websites about the Reduction of Arctic Sea Ice Cover & Recent Heatwaves

The alarm expressed recently by many climate experts about the loss of arctic sea ice and recent heat waves may help generate increased funding for climate change mitigation and adaption.

Given below is a set of links to some videos, articles and a website about the reduction of arctic sea ice cover and heatwaves:

A. Videos:

1) TEDx Video: Seven surprising results from the reduction of Arctic Sea ice cover | David Barber | TEDxUManitoba

<https://www.youtube.com/watch?v=ofaoiHYKtlc>

2) Older Arctic Sea Ice Disappearing by NASA Goddard, Oct 28, 2016

<https://www.youtube.com/watch?v=Vj1G9gqhkYA>

B. Some recent articles:

1) NYMag article: How Did the End of the World Become Old News? By David Wallace-Wells, July 26, 2018

<http://nymag.com/daily/intelligencer/2018/07/climate-change-wildfires-heatwave-media-old-news-end-of-the-world.html>

2) The Arctic had a scarily low amount of ice this past winter - 5 reasons the Arctic's extremely warm winter should alarm you By Brian Resnick, Mar 23, 2018

<https://www.vox.com/energy-and-environment/2018/3/15/17099686/arctic-warm-winter-sea-ice-melting-facts>

3) Ice Loss and the Polar Vortex: How a Warming Arctic Fuels Cold Snaps, BY BOB BERWYN, INSIDECLIMATE NEWS, SEP 28, 2017

The loss of sea ice may be weakening the polar vortex, allowing cold blasts to dip south from the Arctic, across North America, Europe and Russia, a new study says.

<https://insideclimatenews.org/news/27092017/polar-vortex-cold-snap-arctic-ice-loss-global-warming-climate-change>

4) Forbes article: Splitting Of The Polar Vortex: The Arctic Is Melting In The Dead Of Winter by Trevor Nace, Contributor, Feb 27, 2018

<https://www.forbes.com/sites/trevornace/2018/02/27/collapse-polar-vortex-arctic-melting-winter/#3c75bb5939cd>

5) Huge Arctic report ups estimates of sea-level rise - Report prompts warnings that the polar region is 'unravelling' by Jeff Tollefson, 28 April 2017
<https://www.nature.com/news/huge-arctic-report-ups-estimates-of-sea-level-rise-1.21911>

6) Here's what vanishing sea ice in the Arctic means for you 'The Arctic is a natural freezer' By Alessandra Potenza@ale_potenza May 10, 2018
<https://www.theverge.com/2018/5/10/17339046/arctic-sea-ice-decline-albedo-effect-climate-change-global-warming>

7) Polar Ice Is Disappearing, Setting Off Climate Alarms - The short-term consequences of Arctic (and Antarctic) warming may already be felt in other latitudes. The long-term threat to coastlines is becoming even more dire. BY SABRINA SHANKMAN AND BOB BERWYN, DEC 27, 2017
<https://insideclimatenews.org/news/27122017/arctic-antarctic-sea-ice-sheets-2017-year-review-glaciers-disappearing-polar-records>

8) Detailed wiki article on this topic: https://en.wikipedia.org/wiki/Arctic_sea_ice_decline

9) Arctic sea ice extent for September 2017
<http://nsidc.org/arcticseaicenews/2017/10/arctic-sea-ice-2017-tapping-the-brakes-in-september/>

10) Evaluating Arctic sea ice predictions
<https://nsidc.org/about/monthlyhighlights/2015/10/evaluating-arctic-sea-ice-predictions>

C. Online tools about sea ice & drought

1) Sea Ice Data and Analysis Tools by the National Snow and Ice Data Center (NSIDC):
<https://nsidc.org/arcticseaicenews/sea-ice-tools/>

The National Snow and Ice Data Center (NSIDC) supports research into our world's frozen realms: the snow, ice, glaciers, frozen ground, and climate interactions that make up Earth's cryosphere.

2) [SPEI Global Drought Monitor](#)

D. Articles about heatwaves around the world in early July 2018, which caused many deaths.

Note: The temperature and humidity of some of these heat waves appear to have exceeded the wet-bulb temperature at which we cannot cool ourselves, which is (35 °C (95 °F)). For more info, see: https://en.wikipedia.org/wiki/Wet-bulb_temperature

Some notable articles:

[All-time heat records have been set all over the world this week](#) by Jason Samenow, Thursday 5 July 2018
Collectively these are consistent with the kind of extremes expected from a warming world

Vox article: The disturbing reason heat waves can kill people in cooler climates By Umair Irfan Jul 18, 2018,
It's not a record-high temperature that necessarily makes a heat wave dangerous. It's whether you can cool off.
<https://www.vox.com/2018/7/18/17561266/summer-2018-heat-wave-weather-health>

OVER A BILLION PEOPLE STRUGGLE TO STAY COOL AS EARTH WARMS ,
2018-07-16
More electricity demand for fridges, fans and other appliances will add to man-made climate change unless power generators shift from fossil fuels to cleaner energies, according to a Sustainable Energy for All report.
<http://ewn.co.za/2018/07/16/over-a-billion-people-struggle-to-stay-cool-as-earth-warms>

NCBI Research Paper: Humid heat waves at different warming levels, 2017 Aug 7.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5547064/>

E. Some recent articles about the whole climate change issue:

Climate scientists are struggling to find the right words for very bad news, October 3, 2018
A much-awaited report from the U.N.'s top climate science panel will show an enormous gap between where we are and where we need to be to prevent dangerous levels of warming.
https://www.washingtonpost.com/energy-environment/2018/10/03/climate-scientists-are-struggling-find-right-words-very-bad-news/?utm_term=.5e48423d2559

Trump administration sees a 7-degree F. rise in global temperatures by 2100 By Juliet Eilperin, September 28, 2018
https://www.washingtonpost.com/national/health-science/trump-administration-sees-a-7-degree-rise-in-global-temperatures-by-2100/2018/09/27/b9c6fada-bb45-11e8-bdc0-90f81cc58c5d_story.html?noredirect=on

NYT article: U.N. Chief Warns of a Dangerous Tipping Point on Climate Change, By Somini Sengupta, Sept. 10, 2018
António Guterres, the United Nations secretary general, called climate change “the defining issue of our time.”
<https://www.nytimes.com/2018/09/10/climate/united-nations-climate-change.html>

‘Direct existential threat’ of climate change nears point of no return, warns UN chief
<https://news.un.org/en/story/2018/09/1018852>

'Climate change moving faster than we are,' says UN Secretary General By Matt McGrath, 10 September 2018

<https://www.bbc.com/news/science-environment-45471410>

The Guardian Article: Domino-effect of climate events could push Earth into a 'hothouse' state, Mon 6 Aug 2018

Leading scientists warn that passing such a point would make efforts to reduce emissions increasingly futile

<https://www.theguardian.com/environment/2018/aug/06/domino-effect-of-climate-events-could-push-earth-into-a-hothouse-state>

Earth at risk of entering 'hothouse' state from which there is no return, scientists warn by Josh Gabbatiss, Science Correspondent, Aug 6, 2018

'In the context of the summer of 2018, this is definitely not a case of crying wolf... the wolves are now in sight'

<https://www.independent.co.uk/environment/climate-change-hothouse-earth-global-warming-rainforests-sea-ice-heatwave-a8479706.html>

New York Magazine Article: The Uninhabitable Earth By David Wallace-Wells, July 9, 2017

Famine, economic collapse, a sun that cooks us: What climate change could wreak — sooner than you think.

<http://nymag.com/daily/intelligencer/2017/07/climate-change-earth-too-hot-for-humans.html>

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