

Faith & Understanding: Climate Change

Joy Lutheran Church, Eagle River, February 6, 2018

Henry P. Huntington, Ph.D.

<i>Weather</i>	What you dress for (temperature, precipitation, sun, wind, ...)
<i>Climate</i>	What you design your house for (averages, extremes, variability, ...)
<i>Changing weather</i>	What we make fun of the weather forecasters for getting wrong
<i>Climate change</i>	A difference in the long-term characteristics that make up climate

More information about climate change

National Climate Assessment, <https://globalchange.gov>

--What climate change means across the US, including a chapter on Alaska

Intergovernmental Panel on Climate Change, www.ipcc.ch

--The global view of climate change, including all the gory technical details

Skeptical Science, <https://www.skepticalscience.com/>

--Answers to many common skeptical questions about climate change

Study of Environmental Arctic Change, <https://www.arcus.org/search-program/arctic-answers>

--Short briefs on a variety of questions about change in the Arctic and what that change means

NOAA Arctic Report Cards, www.arctic.noaa.gov/Report-Card/Report-Card-2017

--Annual short reports about climate change and a variety of topics

An evangelical climatologist's perspective

Katharine Hayhoe, <http://katharinehayhoe.com/wp2016/>

--Dig around her website, blog, etc., to learn more about how one scientist connects her faith and her work

Some of Henry's work (if you're interested in how scientists write about what they do!)

Huntington, H.P., L.T. Quakenbush, and M. Nelson. 2017. Evaluating the effects of climate change on Indigenous marine mammal hunting in northern and western Alaska using traditional knowledge. *Frontiers in Marine Science* 4:319. doi: 10.3389/fmars.2017.00319

Hamilton, L.C., K. Saito, P.A. Loring, R.B. Lammers, and H.P. Huntington. 2016. Climigration? Population and climate change in Arctic Alaska. *Population and Environment*, 38:115-133. doi: 10.1007/s11111-016-0259-6.

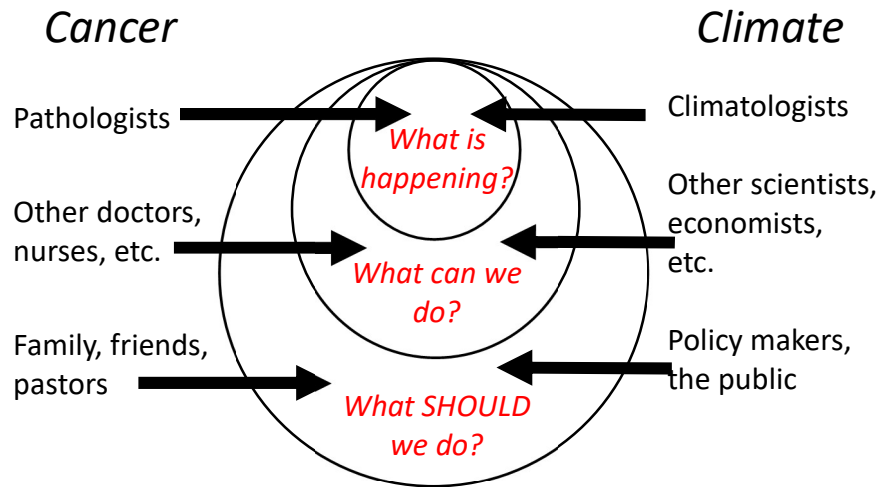
Huntington, H.P., L.T. Quakenbush, and M. Nelson. 2016. Effects of changing sea ice on marine mammals and subsistence hunters in northern Alaska from traditional knowledge interviews. *Biology Letters* 12: 20160198. <http://dx.doi.org/10.1098/rsbl.2016.0198>.

Sturm, M., M.A. Goldstein, H.P. Huntington, and T.A. Douglas. 2016. Using an option pricing approach to evaluate strategic decisions in a rapidly changing climate: Black-Scholes and climate change. *Climatic Change* 140(3-4):437-449. DOI: 10.1007/s10584-016-1860-5.

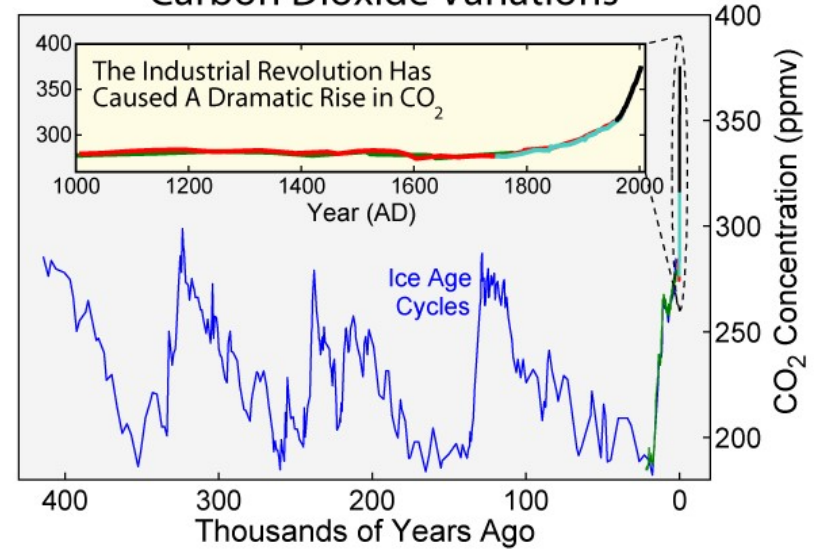
Euskirchen, E.S., E.S. Goodstein, and H.P. Huntington. 2013. An estimated cost of lost climate regulation services caused by thawing of the Arctic cryosphere. *Ecological Applications* 23(8):1869-1880. DOI: 10.1002/eap.2013.23.8.i

Huntington, H.P., and S.E. Moore, eds. 2008. Assessing the impacts of climate change on arctic marine mammals. *Ecological Applications* 18(2) Supplement. <http://www.esajournals.org/toc/ecap/18/sp2>

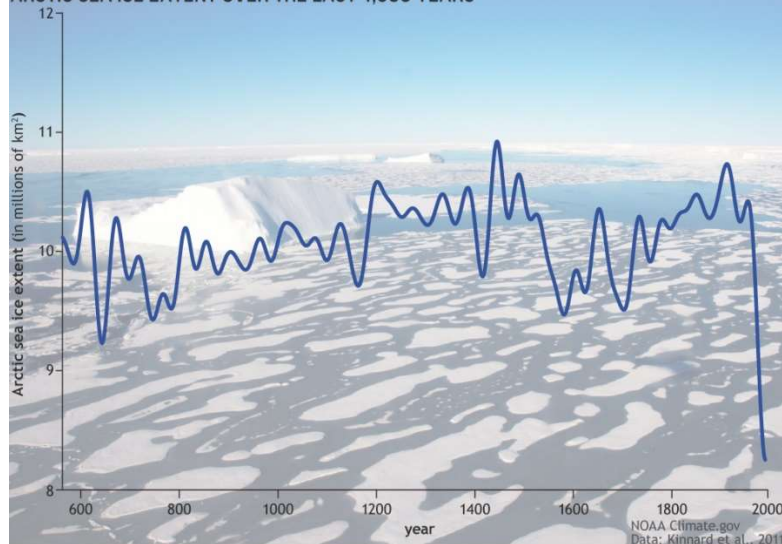
The Nature of Expertise



Carbon Dioxide Variations



ARCTIC SEA ICE EXTENT OVER THE LAST 1,500 YEARS



U.S. Average Temperature Projections

