Cold Winters Warming? Perceptions of Climate Change in New Hampshire

Larry Hamilton

Carsey School of Public Policy University of New Hampshire

"What are people saying about climate?" Coastal Adaptation Workgroup

Greenland, New Hampshire May 13 2019

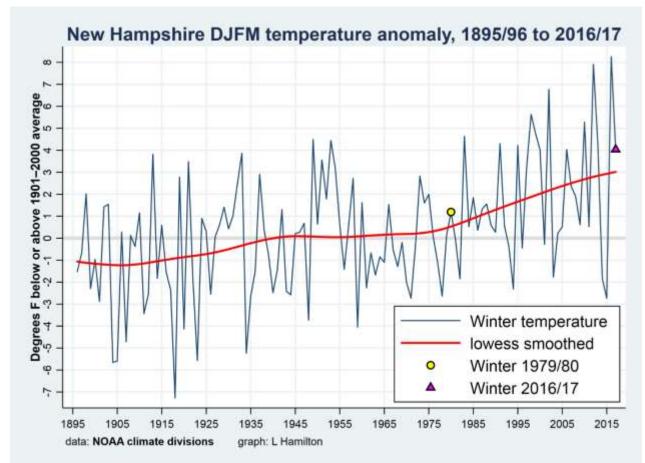
Research supported by grants from the US National Science Foundation (Living Bridge IIP-1230460; PoLAR Climate Change Education Partnership DUE-1239783; New Hampshire EPSCoR EPS-1101245), US Department of Agriculture (Communities and Forests in Oregon 2010-67023-21705 and 2014-68002-21782), Neil and Louise Tillotson Fund of the New Hampshire Charitable Foundation, and the Carsey School of Public Policy and the Sustainability Institute at UNH. Any opinions, findings, and conclusions expressed in this material are those of the author and do not necessarily reflect the views of supporting organizations.



Since 1980, NH winters have been warming

7 passed all previous records

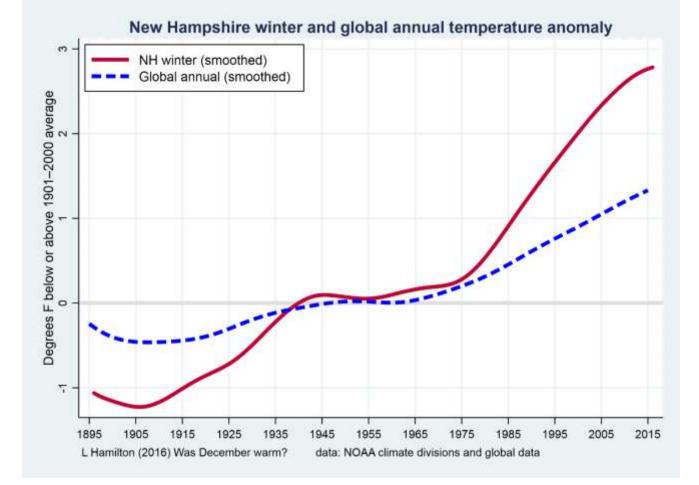
Some recent winters that seem cold would have been "warm" earlier



NH winters are warming twice as fast as global warming

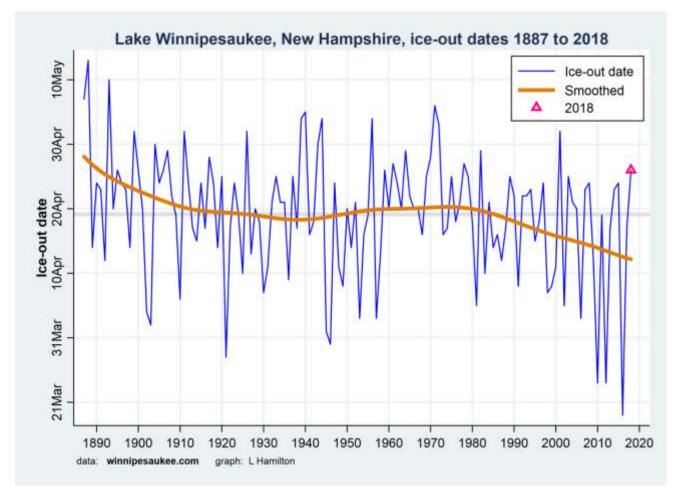
But with global *signature:*

- step
- pause
- takeoff



Lake Winnipesaukee ice-out

(Other data show global signature too)





How did I start down this road?

There's a forest behind my house where I've walked, skied or snowshoed daily for past 40

vears





I noticed winters changing, long before I ever heard the term "climate change"

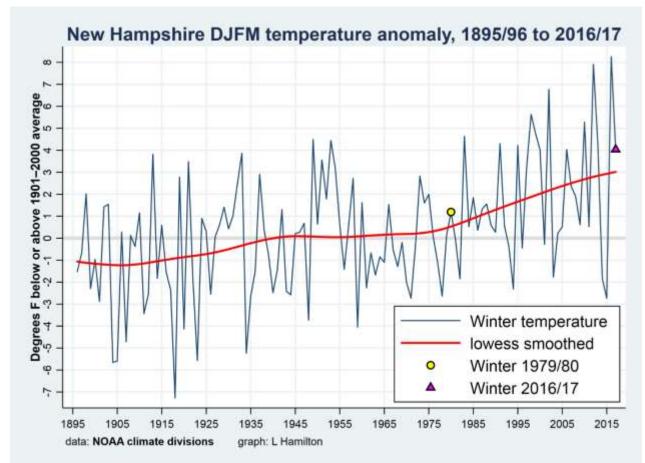
Maybe you've seen changes too, around places you have lived?

<= My daughter in 1980

Since 1980, NH winters have been warming

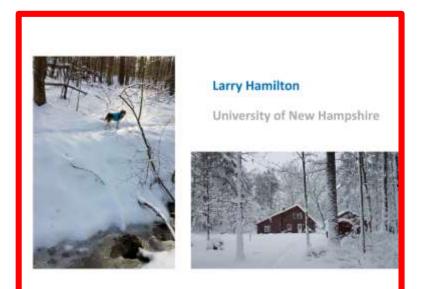
7 passed all previous records

Some recent winters that seem cold would have been "warm" earlier



These last few slides are from a "Pub Talk" last year in eastern Oregon, at the Range Rider Saloon

Talking about climate change





Our standard survey question about climate change:

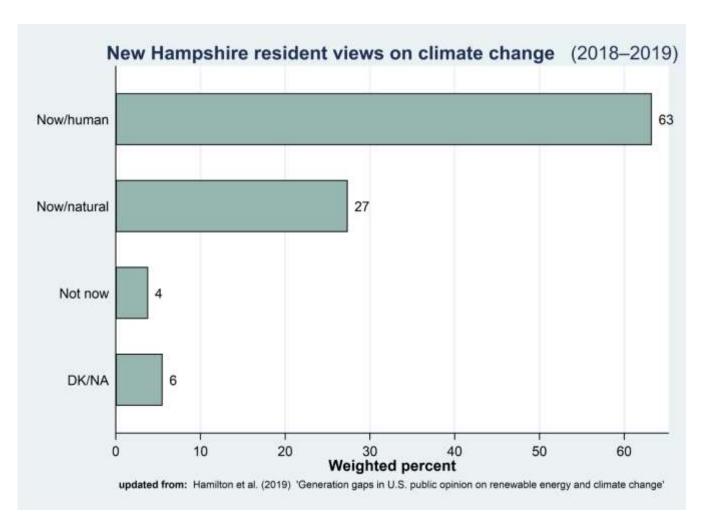
Which statement do you think is more accurate?

- Climate change is happening now, caused mainly by human activities
- Climate change is happening now, but caused mainly by natural forces
- Climate change is not happening now
- I don't know

Asked 4 times/year on the Granite State Poll since 2010

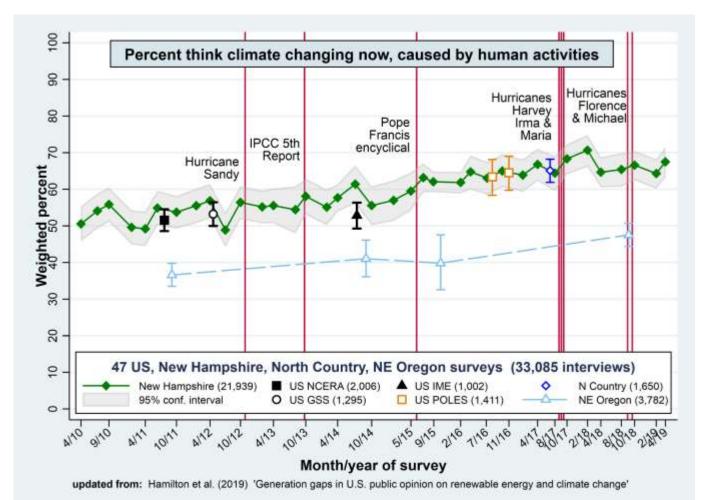
2018–2019 Granite State Poll: 63%

climate change is happening now, caused mainly by human activities



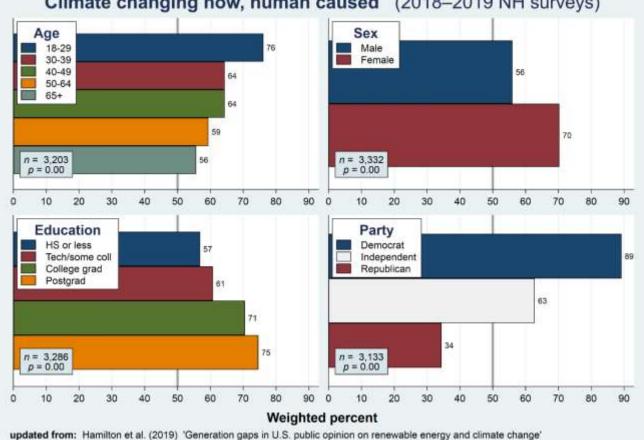
Climate change happening now, caused mainly by human activities tracked on 47 surveys

NH is not a bad proxy for US on this issue

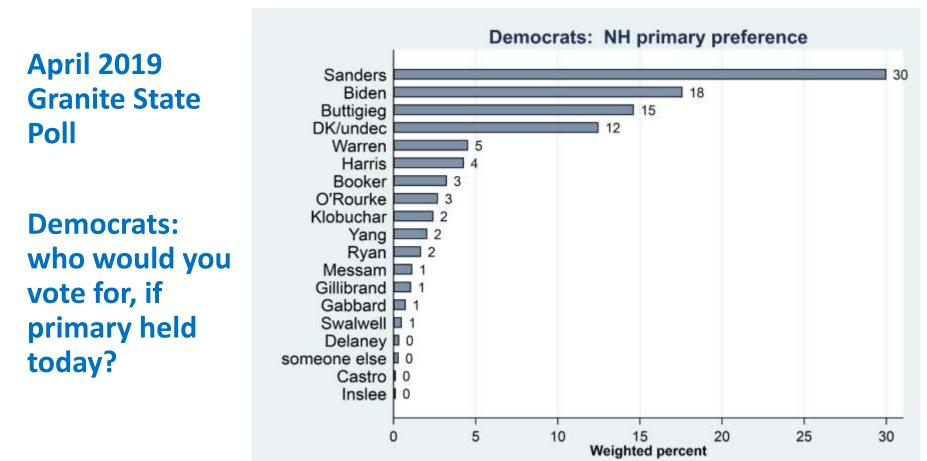


Majority of NH residents agree human activities are changing climate:

- young & old
- male & female
- any education
- not any party



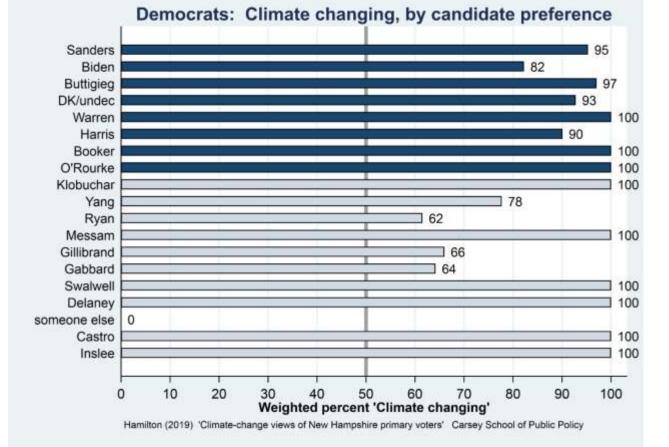
Climate changing now, human caused (2018–2019 NH surveys)



Hamilton (2019) 'Climate-change views of New Hampshire primary voters' Carsey School of Public Policy

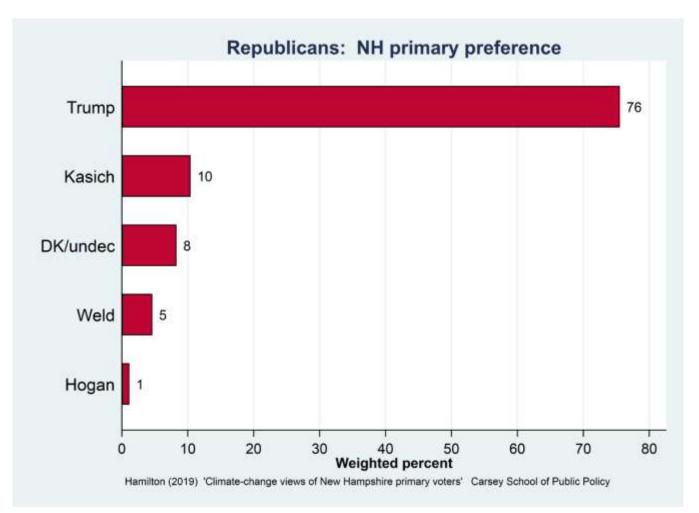
April 2019 Granite State Poll

Democrats: Climate views of each candidate's supporters



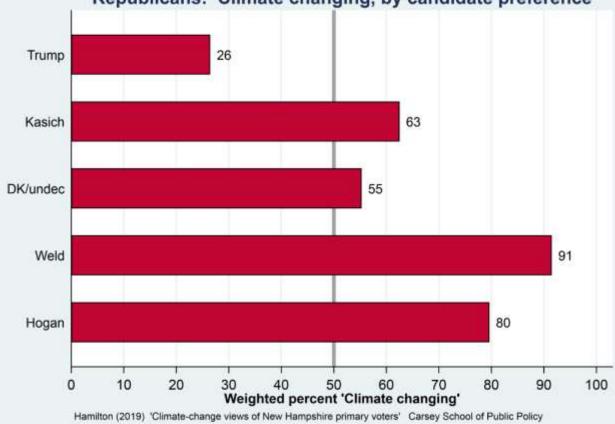
April 2019 Granite State Poll

Republicans: who would you vote for, if primary held today?



April 2019 Granite State Poll

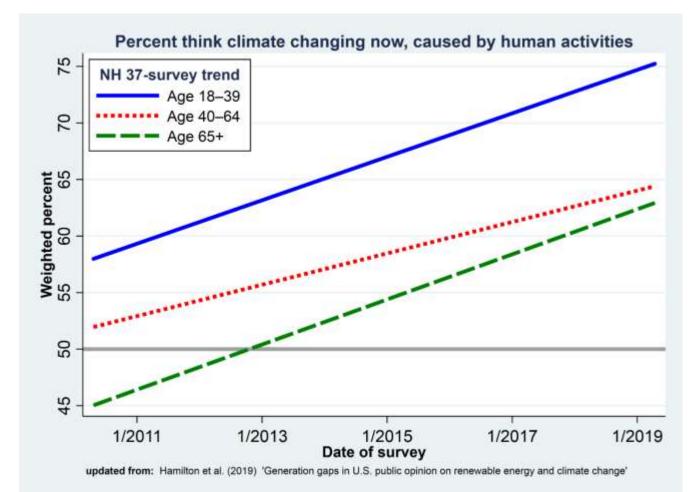
Republicans: Climate views of each candidate's supporters



Republicans: Climate changing, by candidate preference

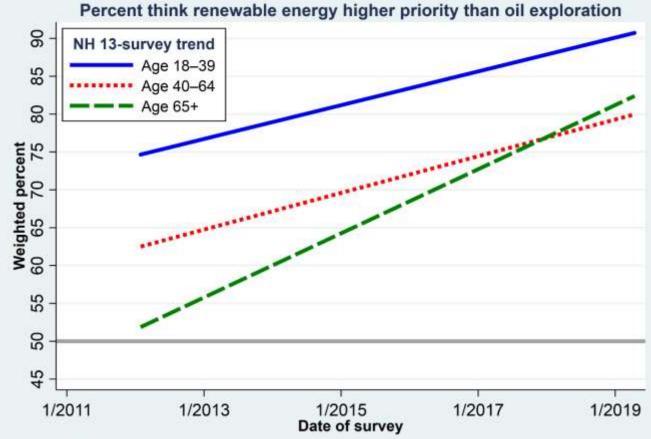
Generation gap

- Millennials recognize that humans are changing the climate
- But recognition is rising among all age groups



Generation gap

- Millennials also are much more likely to support renewable energy development
- As with climate, support is rising among all age groups

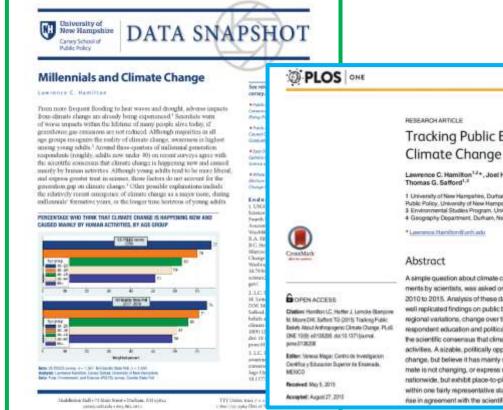


updated from: Hamilton et al. (2019) 'Generation gaps in U.S. public opinion on renewable energy and climate change'

The Future?

- Upward trends among all age groups show gradually rising recognition that humans are changing the climate
- Public opinion has not responded to sudden events such as hurricanes, but there may be cumulative effects
- Science communication has cumulative effects as well
- Younger adults more likely to recognize the reality of humancaused climate change
- If their voting participation rises, change might come faster

Surveys analyzed in Carsey briefs & research papers, write me for copies





Questions?

(back at the Range Rider Saloon)