

# Zachary M. Labe

## CONTACT INFORMATION

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🐦 @ZLabe

## RESEARCH INTERESTS

large-scale climate dynamics • climate variability • atmospheric teleconnections • stratospheric dynamics • sea ice • science communication

## EDUCATION

**The University of California, Irvine**, Irvine, CA  
Ph.D. in Earth System Science, May 2020

**The University of California, Irvine**, Irvine, CA  
M.Sc. in Earth System Science, Sep 2017

**Cornell University**, Ithaca, NY  
B.Sc. in Atmospheric Science, May 2015, *Distinction in Research*  
Minor: Dyson Business Minor for Life Sciences

## ACADEMIC EMPLOYMENT

- 2020-Present    **Postdoctoral Researcher**  
Evaluating timing of emergence and compound climate events using machine learning methods (neural networks)  
Advisor: Dr. Elizabeth Barnes, Atmospheric Science, Colorado State University
- 2015-2020    **Graduate Research Assistant**  
Assessing influences of Arctic amplification and sea ice variability on the stratosphere and extreme weather in the mid-latitudes through global climate model experiments and historical observations  
Advisor: Dr. Gudrun Magnusdottir, Earth System Science, University of California, Irvine
- Su. 2015    **Research Assistant**  
Evaluated the magnitude, frequency, and dynamics of spring onset in the CESM Large Ensemble Project (LENS) through the implementation of the Extended Spring Indices Model  
Advisor: Dr. Toby Ault, Earth and Atmospheric Science, Cornell University
- 2014-2015    **Undergraduate Research Assistant**  
Analyzed Extended Spring Indices model forced by Berkley Earth System Temperature (BEST) reanalysis to understand early spring onset  
Advisor: Dr. Toby Ault, Earth and Atmospheric Science, Cornell University

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## PUBLICATIONS

### *Refereed/Peer-Reviewed*

- [7] Timmermans, M.-L., **Z.M. Labe**, and C. Ladd (2020), [The Arctic] Sea surface temperature [in "State of the Climate in 2019"]. Bull. Amer. Meteor. Soc., DOI: 10.1175/BAMS-D-20-0086.1. [\[Article\]](#)
- [6] **Labe, Z.M.**, Y. Peings, and G. Magnusdottir (2020), Warm Arctic, cold Siberia pattern: role of full Arctic amplification versus sea ice loss alone, Geophysical Research Letters, DOI:10.1029/2020GL088583. [\[Article\]](#)
- [5] Thoman, R.L., U. Bhatt, P. Bieniek, B. Brettschneider, M. Brubaker, S. Danielson, **Z.M. Labe**, R. Lader, W. Meier, G. Sheffield, and J. Walsh (2020), The record low Bering Sea ice extent in 2018: Context, impacts and an assessment of the role of anthropogenic climate change [in "Explaining Extreme Events of 2018 from a Climate Perspective"]. Bull. Amer. Meteor. Soc., DOI:10.1175/BAMS-D-19-0175.1 [\[Article\]](#)
- [4] **Labe, Z.M.**, Y. Peings, and G. Magnusdottir (2019), The effect of QBO phase on the atmospheric response to projected Arctic sea ice loss in early winter, Geophysical Research Letters, DOI:10.1029/2019GL083095. [\[Article\]](#)
- [3] **Labe, Z.M.**, Y. Peings, and G. Magnusdottir (2018), Contributions of ice thickness to the atmospheric response from projected Arctic sea ice loss, Geophysical Research Letters, DOI:10.1029/2018GL078158. [\[Article\]](#)
- [2] **Labe, Z.M.**, G. Magnusdottir, and H.S. Stern (2018), Variability of Arctic sea ice thickness using PIOMAS and the CESM Large Ensemble, Journal of Climate, DOI:10.1175/JCLI-D-17-0436.1. [\[Article\]](#)
- [1] **Labe, Z.M.**, T.R. Ault, and R. Zurita-Milla (2016), Identifying Anomalously Early Spring Onsets in the CESM Large Ensemble Project, Climate Dynamics, DOI:10.1007/s00382-016-3313-2. [\[Article\]](#)

### *Publications Submitted/in Preparation*

- [1] Peings, Y., **Z.M. Labe**, and G. Magnusdottir (2020), Are 100 ensemble members enough to capture the remote atmospheric response to +2°C Arctic sea ice loss? Journal of Climate (*in review*)

### *Non-refereed/Other*

- [3] **Labe, Z.M.**, May 2020: The effects of Arctic sea-ice thickness loss and stratospheric variability on mid-latitude cold spells. University of California, Irvine. Doctoral dissertation. [\[PDF\]](#)
- [2] **Labe, Z.M.**, November 2019: Understanding Our Changing Arctic. Polar Bears International. Annual Magazine. [\[Article\]](#)
- [1] **Labe, Z.M.**, April 2015: Anomalously Early Onset of Spring in the CESM Large Ensemble. Cornell University. Undergraduate Honors Thesis. [\[PDF\]](#)

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## ORAL PRESENTATIONS

- [10] **Labe, Z.M.** Observations and climate model projections of Arctic climate change. Geography Department, Irvine Valley College, CA (May 2020). (**Invited-Remote**)
- [9] **Labe, Z.M.**, Y. Peings, and G. Magnusdottir. Detection of Signal in the Large-Scale Circulation Response to Arctic Sea-Ice Decline. 33rd Conference on Climate Variability and Change, Boston, MA (Jan 2020). [\[Abstract\]](#)
- [8] **Labe, Z.M.** Melting Ice: Context, Causes, and Consequences of Polar Amplification. Kavli Frontiers of Science, National Academy of Sciences, Jerusalem, Israel (Sep 2019). (**Invited**) [\[Recording\]](#)

- [7] **Labe, Z.M.** Projections of a future Arctic climate. Geography Department, Irvine Valley College, CA (May 2019). **(Invited)**
- [6] **Labe, Z.M.**, G. Magnusdottir, and Y. Peings. Linking the Quasi-Biennial Oscillation and projected Arctic sea-ice loss to stratospheric variability in early winter. *20th Conference on Middle Atmosphere*, Phoenix, AZ (Jan 2019). [\[Abstract\]](#)
- [5] **Labe, Z.M.**, Y. Peings, H.S. Stern, and G. Magnusdottir. Arctic sea ice thickness variability and its influence on the atmospheric response to projected sea ice loss. *Machine Learning and Physical Sciences (MAPS) Symposium*, University of California, Irvine (May 2018).
- [4] **Labe, Z.M.** Disentangling Arctic climate change and variability. Geography Department, Irvine Valley College, CA (Apr 2018). **(Invited)**
- [3] **Labe, Z.M.**, G. Magnusdottir, and H.S. Stern. Variability and future projections of Arctic sea ice thickness. *Understanding the Causes and Consequences of Polar Amplification Workshop*, Aspen Global Change Institute, Aspen, CO (Jun 2017). [\[Recording\]](#)
- [2] **Labe, Z.M.** Communicating the future of Arctic climate change. Natural Sciences Division, Fullerton College, CA (Nov 2016). **(Invited)**
- [1] **Labe, Z.M.** Anomalously early onset of spring in the CESM Large Ensemble Project. *Earth and Atmospheric Science Undergraduate Research Symposium*, Cornell University, NY (May 2015).

## POSTER PRESENTATIONS

- [4] **Labe, Z.M.** Loss of Arctic sea ice thickness affects the large-scale atmosphere, *Arctic System Change Workshop* at NCAR, Boulder, CO (Apr 2018). [\[Poster\]](#)
- [3] **Labe, Z.M.**, G. Magnusdottir, and H.S. Stern. Arctic Sea Ice Thickness Variability and the Large-scale Atmospheric Circulation Using Satellite Observations, PIOMAS, and the CESM Large Ensemble, *14th Conference on Polar Meteorology and Oceanography*, Seattle, WA (Jan 2017). [\[Abstract\]](#) [\[Poster\]](#)
- [2] **Labe, Z.M.**, G. Magnusdottir, and H.S. Stern. Making the most of Arctic sea ice thickness observations, *Symposium on Recent Advances in Data Science*, University of California, Irvine (Oct 2016). [\[Poster\]](#)
- [1] **Labe, Z.M.** and T.R. Ault. Anomalously Early Onset of Spring in the CESM Large Ensemble Project, *14th Annual AMS Student Conference*, Phoenix, AZ (Jan 2015). [\[Poster\]](#)

## OTHER PRESENTATIONS

- [4] Magnusdottir, G., Y. Peings, and **Z.M. Labe**. Response to sea-ice loss under the Polar Amplification MIP protocol in extended ensembles of simulations. *2019 American Geophysical Union Annual Meeting*, San Francisco, CA (Dec 2019). [\[Abstract\]](#)
- [3] Holman, A., R. Thoman, **Z.M. Labe**, and J.E. Walsh. Not Just Chance: Ocean and Atmospheric Factors in the Record Low Bering Sea Ice Winter of 2017-2018 and effects on health and safety, *2018 American Geophysical Union Annual Meeting*, Washington, DC (Dec 2018). [\[Abstract\]](#)
- [2] Magnusdottir, G., **Z.M. Labe**, and Y. Peings. The role of the stratosphere, including the QBO, in Arctic to mid-latitude teleconnections associated with sea-ice forcing. *2018 American Geophysical Union Annual Meeting*, Washington, DC (Dec 2018). [\[Abstract\]](#)
- [1] Thoman, R. and **Z.M. Labe**. 2017-18 Sea Ice in Western Alaska during the 2017-18 Season: Historical Context and Possible Drivers. *Western Alaska Interdisciplinary Science Conference and Forum*, Nome, AK (Mar 2018).

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## FELLOWSHIPS AND AWARDS

2020-2021	SoGES Sustainability Leadership Fellow, Colorado State University
Sep. 2019	Kavli Fellow, National Academy of Sciences
Jan. 2019	Outstanding Student Presentation Award - AMS Conference on Middle Atmosphere
Nov. 2018	Travel Award - AMS Conference on Middle Atmosphere
2016-2018	NSF NRT-DESE in Data Science and Physical Science Fellowship
Su. 2016	Data Science Initiative Fellowship, Department of Statistics, University of California, Irvine
Wi. 2016	Jenkins Family Graduate Fellowship in Earth System Science, Department of Earth System Science, University of California, Irvine
2014-2015	Fuerst Outstanding Library Student Employee Award Finalist, Cornell University

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## TEACHING AND OUTREACH

### ***University of California, Irvine***

Fa. 2019	Teaching Assistant, Terrestrial Hydrology
Sp. 2019	Teaching Assistant, Earth System Physics
Wi. 2019	Teaching Assistant, Weather Analysis
Fa. 2016	Teaching Assistant, Fundamental Processes in Earth and Environmental Studies

### ***Cornell University***

Su. 2015	Guest Lecturer, Severe Weather Phenomena
Sp. 2015	Teaching Assistant, Programming and Meteorology Software (Python)
Fa. 2014	Teaching Assistant, Basic Principles of Meteorology Lab

### ***Related Educational Activities***

Jul. 2020	<i>Polar Bears International</i> , 'State of the Arctic in 2020' - Blog Post ( <b>Author</b> )
Mar. 2020	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , The Cryosphere Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Feb. 2020	<i>Irvine Unified School District's 39<sup>th</sup> Annual Science Fair</i> , Physical science project judge, Irvine, CA ( <b>Volunteer</b> )
Jan. 2020	<i>100th American Meteorological Society Annual Meeting</i> : Side Panel - Using Social Media to Communicate Climate Science, Boston, MA. ( <b>Chair</b> ) [ <a href="#">Abstract</a> ]
Nov. 2019	<i>Department of Earth System Science</i> , Improving scientific graphics of climate (change) data, University of California, Irvine, CA. ( <b>Presenter</b> )
Oct. 2019	<i>Irvine Unified School District</i> , "Ask-A-Scientist/Engineer Night" at Creekside High School, Orange County, CA ( <b>Volunteer</b> )

Sep. 2019	<i>Geological Society of America Annual Meeting</i> , Geoscience Communication in the Modern Age – “A Changing Arctic”, Phoenix, AZ ( <b>Contributed Art</b> )
Sep. 2019	<i>UC Irvine Graduate Orientation</i> , Session Title – Healthy Student Life – The Current Student Perspective, Irvine, CA ( <b>Panelist</b> )
May 2019	<i>College and Career Day Experience</i> , MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Apr. 2019	<i>Vista Verde School</i> , Weather and climate booth at an Earth Science Day fair, Irvine, CA ( <b>Presenter</b> )
Mar. 2019	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , Weather and Climate Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Feb. 2019	<i>Orange County Regional Science Olympiad</i> , Climate Science-Meteorology exam writer and proctor, Irvine, CA ( <b>Event Supervisor</b> )
Feb. 2019	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , The Cryosphere Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Dec. 2018	NOAA, Arctic Report Card - Update for 2018. <a href="#">[Contributed Graphics]</a>
Oct. 2018	<i>Brews and Brains: TED-Style Talk</i> , Our Changing Arctic, Fireside Tavern, Costa Mesa, CA. ( <b>Invited Presenter</b> ). <a href="#">[Recording]</a>
Oct. 2018	<i>Irvine Unified School District</i> , “Ask-A-Scientist/Engineer Night” at Rancho San Joaquin Middle School, Orange County, CA ( <b>Volunteer</b> )
Sep 2018	<i>UC Irvine Graduate Orientation</i> , Session Title – Student Panel – Embracing Your New Graduate Life, Irvine, CA ( <b>Panelist</b> )
May 2018	<i>Vista Verde School</i> , Weather and climate booth at an Earth Day fair, Irvine, CA ( <b>Presenter</b> )
Feb. 2018	<i>Irvine Unified School District's 37<sup>th</sup> Annual Science Fair</i> , Physical science project judge, Irvine, CA ( <b>Volunteer</b> )
Feb. 2018	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , Weather and Climate Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Feb. 2018	<i>Orange County Regional Science Olympiad</i> , Climate Science-Meteorology exam writer and proctor, Irvine, CA ( <b>Event Supervisor</b> )
Feb. 2018	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , The Cryosphere Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA ( <b>Presenter</b> )
Sep. 2017	<i>Irvine Unified School District</i> , “Ask-A-Scientist/Engineer Night” at Rancho San Joaquin Middle School, Orange County, CA ( <b>Volunteer</b> )
Aug. 2017	<i>Irvine Unified School District</i> , “Ask-A-Scientist/Engineer Night” at Rancho San Joaquin Middle School, Orange County, CA ( <b>Volunteer</b> )
Aug. 2017	<i>NASA DIRECT-STEM Program</i> , Assessing a changing Arctic ( <b>Invited Presenter</b> ).

Apr. 2017	<i>Climate Data Hackathon</i> , Looking for clues to changes in Arctic sea ice, University of California, Irvine. <b>(Invited Presenter)</b> . <a href="#">[Syllabus/GitHub]</a>
Feb. 2017	<i>Irvine Unified School District's 36<sup>th</sup> Annual Science Fair</i> , Physical science project judge, Irvine, CA <b>(Volunteer)</b>
Feb. 2017	<i>Orange County Regional Science Olympiad</i> , Severe Storms-Meteorology exam writer and proctor, Irvine, CA <b>(Event Supervisor)</b>
Wi. 2017	Seminar Course – Teaching Topics in Earth System Science <b>(Training)</b>
Oct. 2016	<i>Irvine Unified School District</i> , "Ask-A-Scientist/Engineer Night" at Rancho San Joaquin Middle School, Orange County, CA <b>(Volunteer)</b>
Aug. 2016	<i>NASA DIRECT-STEM Workshop</i> , Data and Analysis of Arctic Climate Change in CMIP5 using Python <b>(Instructor)</b> . <a href="#">[Syllabus/GitHub]</a>

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## PROFESSIONAL ACTIVITIES

2020-Present	Expert Reviewer - NSF (GEO/AGS)
2019-Present	Student Board Member, American Meteorological Society's Board on Societal Impacts
2018-Present	Journal Manuscript Referee <a href="#">[Publons]</a> - <i>Climate Dynamics</i> , <i>Geophysical Research Letters</i> , <i>International Journal of Climate</i> , <i>Journal of Climate</i> , <i>Journal of Geophysical Research: Atmospheres</i> , <i>Journal of Glaciology</i> , <i>Nature Climate Change</i> , <i>Polar Geography</i> ,
2017-2020	Vice President & Communications Chair, Student Chapter of the American Meteorological Society at the University of California, Irvine <a href="#">[Website]</a>
2017-2020	Student Board Member, American Meteorological Society's Committee on Climate Variability and Change
2017-2018	Member, Student Communications Working Group, University of California, Irvine
Aug. 2017	Expert Contributor to the UCAR Climate Data Guide: "Sea Ice Thickness Data Sets: Overview & Comparison Table" <a href="#">[Website]</a>
2014-2015	President, American Meteorological Society Student Chapter, Cornell University

### ***Affiliations/Memberships***

2020-Present	American Association for the Advancement of Science (AAAS), Member
2016-Present	Association of Polar Early Career Scientists (APECS), Member
2015-Present	American Geophysical Union (AGU), Member
2014-Present	National Weather Association (NWA), Member
2009-Present	American Meteorological Society (AMS), Member

## PROFESSIONAL TRAVEL

### ***Field Work***

May 2017	INTPART Arctic Field Summer Schools: Norway–Canada–USA collaboration, University of Tromsø, Norway (Workshops); Longyearbyen, Svalbard (R/V <i>Lance</i> - sea ice)
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### Workshops

Oct. 2019	Transdisciplinary Research on the Changing Arctic and Its Global Impacts: Enhancing Capacity for Convergence Science, Beckman Center of the NAS, Irvine, CA
Apr. 2018	Arctic System Change Workshop, Mesa Lab, National Center for Atmospheric Research (NCAR), Boulder, CO
Jun. 2017	Understanding the Causes and Consequences of Polar Amplification, Aspen Global Change Institute, Aspen, CO

### Conferences

Jan. 2020	100 <sup>th</sup> American Meteorological Society Annual Meeting, Boston, MA
Jan. 2019	99 <sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ
Jan. 2017	97 <sup>th</sup> American Meteorological Society Annual Meeting, Seattle, WA
Jan. 2015	95 <sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ
Feb. 2014	94 <sup>th</sup> American Meteorological Society Annual Meeting, Atlanta, GA
Jan. 2013	93 <sup>rd</sup> American Meteorological Society Annual Meeting, Austin, TX

### TECHNICAL SKILLS

Programming: Python, MATLAB, R, Fortran, Unix, HTML, T<sub>E</sub>X, L<sup>A</sup>T<sub>E</sub>X, B<sub>I</sub>B<sub>T</sub><sub>E</sub>X  
Software/Tools: NCL, PyNGL/PyNIO, NCO, CDO, GrADS, Git

Visit my [GitHub](#) !

### GRADUATE COURSEWORK

- |  |  |
|--|--|
| <input type="checkbox"/> Atmospheric Chemistry & Physics | <input type="checkbox"/> Geoscience Modeling and Data Analysis |
| <input type="checkbox"/> Geophysical Fluid Dynamics      | <input type="checkbox"/> Global Physical Climatology           |
| <input type="checkbox"/> Global Biogeochemical Cycles    | <input type="checkbox"/> Climate Dynamics                      |
| <input type="checkbox"/> Land Surface Processes          | <input type="checkbox"/> Climate Change                        |
| <input type="checkbox"/> Ocean Processes                 | <input type="checkbox"/> Quantitative Methods in Ecology       |

### UNDERGRADUATE COURSEWORK

- |  |  |
|--|--|
| <input type="checkbox"/> Atmospheric Dynamics            | <input type="checkbox"/> Remote Sensing and GIS                      |
| <input type="checkbox"/> Synoptic Meteorology II         | <input type="checkbox"/> Statistics in Meteorology and Climatology   |
| <input type="checkbox"/> Physical Meteorology            | <input type="checkbox"/> Programming and Meteorology Software        |
| <input type="checkbox"/> Climate Dynamics                | <input type="checkbox"/> Ordinary and Partial Differential Equations |
| <input type="checkbox"/> Thermodynamics and Hydrostatics |  |

### NEWS AND MEDIA

Aug. 2020	CBS News, "In just 15 years, the Arctic Ocean may be ice-free in summer, study says" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	E&E News, "Fires, heat and a cyclone. Arctic breaks melting record" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	CSU Engineering Source News, "Five questions with Atmospheric Science climate scientist Zachary Labe" ( <b>Interview</b> ). <a href="#">[Article]</a>




Jul. 2020	<i>TBS eFM</i> , "Live radio broadcast on "This Morning" show in Seoul, South Korea" ( <b>Interview</b> ). <a href="#">[Recording]</a>
Jul. 2020	<i>Vice</i> , "Siberia's Heat Wave Triggered an Arctic Sea Ice Melt Down" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	<i>Mashable</i> , "Why Arctic sea ice just crashed to an extreme, record low" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	<i>9News</i> , "Climate change: Siberian Arctic ice forming less, melting faster than any year since 1979" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	<i>The Hill</i> , "Climate researcher details historic significance of recent warming in Siberia" ( <b>Interview</b> ). <a href="#">[Article]</a>
Jul. 2020	<i>Sustainability – CSU</i> , "SHH! Sustainability Happy Hour with Dr. Zack Labe" ( <b>Interview</b> ). <a href="#">[Video]</a>
Jul. 2020	<i>Rising – Hill.TV</i> , "Climate Scientist: Why You Should Worry About 100 Degree Temps In Siberia" ( <b>Interview</b> ). <a href="#">[Video]</a>
Jul. 2020	<i>National Geographic</i> , "A heat wave thawed Siberia's tundra. Now, it's on fire" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2020	<i>CBS News</i> , "100.4 degree Arctic temperature record confirmed as study suggests Earth is warmest in at least 12,000 years" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2020	<i>The Telegraph</i> , "Siberia heatwave: Fears of 'irreversible' permafrost melt as Russian village sees record temperatures" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2020	<i>Mashable</i> , "How the Arctic Circle just eclipsed 100 degrees" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2020	<i>CBS News</i> , "2020 likely to be the warmest year on record globally" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2020	<i>UCI News</i> , "Zack Labe cracks a cold case" ( <b>Interview</b> ). <a href="#">[Article]</a>
May 2020	<i>The Washington Post, Capital Weather Gang</i> , "Parts of Siberia are hotter than Washington, with temperatures nearly 40 degrees above average" ( <b>Quoted</b> ). <a href="#">[Article]</a>
May 2020	<i>The Washington Post, Capital Weather Gang</i> , "Unusual warmth pours over North Pole, potentially jump-starting melt season for Arctic ice" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Apr. 2020	<i>Nightingale – The Journal of the Data Visualization Society</i> , "Six Iconic Environmental Visualizations for Earth Day" ( <b>Listed</b> ). <a href="#">[Article]</a>
Mar. 2020	<i>Mashable</i> , "Even after a frigid winter, Arctic sea ice is still really low" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Feb. 2020	<i>You've Been Warmed Podcast</i> , "The Power Of Visualizing Data In Climate Communication w/ Zack Labe" ( <b>Interview</b> ). <a href="#">[Podcast]</a>
Dec. 2019	<i>AGU Annual Meeting</i> , "Department of Earth System Science, University of California, Irvine - promo" ( <b>Interview</b> ). <a href="#">[Video]</a>
Nov. 2019	<i>Euronews</i> , "Arctic ice reached record low in October" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Sep. 2019	<i>Carbon Brief</i> , "Arctic sea ice summer minimum in 2019 is 'joint-second lowest' on record" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Sep. 2019	<i>Mashable</i> , "Arctic sea ice plunges to dismal levels" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Sep. 2019	<i>Euronews</i> , "How summer 2019 was hellish for the Arctic, the frontline of climate change and global warming" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Aug. 2019	<i>The Guardian</i> , "Alaska records warmest month ever in July with coastline barren of sea ice" ( <b>Quoted</b> ). <a href="#">[Article]</a>



Aug. 2019	<i>TIME</i> , "Alaska's Sea Ice Has Its Lowest August Levels Ever" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Aug. 2019	<i>Mashable</i> , "Greenland's melting hits overdrive" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2019	<i>Motherboard</i> , "Arctic Ice Is Crashing, and That's Bad News For Everyone" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2019	<i>Wunderground</i> , "Heat Wave Heads North: Massive Week of Melting Likely in Arctic" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jul. 2019	<i>The Washington Post, Capital Weather Gang</i> , "Europe's heat wave is about to bake the Arctic" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2019	<i>The Washington Post, Capital Weather Gang</i> , "The Arctic Ocean and Greenland ice sheet have seen record June ice loss" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2019	<i>Axios</i> , "Arctic melt goes into overdrive" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jun. 2019	<i>Mashable</i> , "There's some really intense melting in the Arctic right now" ( <b>Quoted</b> ). <a href="#">[Article]</a>
May 2019	<i>Earther</i> , "The Last of the Arctic's Old Sea Ice Is on the Verge of Vanishing" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Mar. 2019	<i>Carbon Brief</i> , "Arctic sea ice winter peak in 2019 is seventh lowest on record" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Mar. 2019	<i>Axios</i> , "Vanishing ice in the Bering Sea drops to lowest level since 1850" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Mar. 2019	<i>Mashable</i> , "The Bering Strait should be covered in ice, but it's nearly all gone" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Feb. 2019	<i>CBS News</i> , "Week of remarkable weather extremes: Is this the new normal?" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Feb. 2019	<i>Mashable</i> , "It's damn cold, but heat records in the U.S. still dominate" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Jan. 2019	<i>Popular Science</i> , "Record cold temperatures don't mean the planet isn't warming" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Oct. 2018	<i>Mashable</i> , "Things in the middle of the Arctic are getting really strange" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Oct. 2018	<i>KUCI Radio</i> , "Arctic Sea Ice and Meteorology with Zack Labe" ( <b>Interview</b> ). <a href="#">[Article]</a>
Sep. 2018	<i>Euronews</i> , "Arctic heatwave could result in summer-like warmth for Alaska" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Sep. 2018	<i>Carbon Brief</i> , "Arctic sea ice summer minimum in 2018 is sixth lowest on record" ( <b>Quoted</b> ). <a href="#">[Article]</a>
Aug. 2018	<i>Val 202 - Slovene radio station</i> "The Arctic is rapidly melting" ( <b>Interview</b> ). <a href="#">[Article]</a>
Jun. 2018	<i>Earther</i> , "There's Way Too Little Ice Around Svalbard Right Now" ( <b>Quoted</b> ). <a href="#">[Article]</a>
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## PERSONAL INTERESTS

Vegetable gardening, travel, cooking, hiking, fishing, lighthouses, trains, winter synoptic storms, long-range and seasonal weather forecasting