

# Zachary M. Labe

## CONTACT INFORMATION

ATS  
Department of Atmospheric Science  
Colorado State University  
Fort Collins, Colorado 80523-1371 USA

☎ 717.xxx.xxxx  
✉ [zmlabe@rams.colostate.edu](mailto:zmlabe@rams.colostate.edu)  
🌐 <https://sites.uci.edu/zlabe/>  
🐦 @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

---

## 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. [\[PDF\]](#)

---

## ORAL PRESENTATIONS

- [12] **Labe, Z.M.** Trends and regional variability of observed Arctic sea ice thickness, ACCAP's Virtual Alaska Weather Symposia webinar series, University of Alaska, Fairbanks (Oct 2020). (**Invited-Remote**)
- [11] **Labe, Z.M.** Refining projections of the 'warm Arctic, cold Siberia' pattern in climate model simulations. Atmosphere and Ocean Climate Dynamics seminar, Yale University, CT (Sep 2020). (**Invited-Remote**)
- [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).

## 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   |

## 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>                      |

---

## 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) |
|----------|---|



### 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 | <i>Val 202 - Slovene radio station</i> "Globalne temperature v vzponu, Arktika kmalu brez ledu" ( <b>Interview</b> ). <a href="#">[Article]</a> |
| Aug. 2020 | <i>Bloomberg</i> , "The First Arctic Summer Without Ice Is Coming in Just 15 Years" ( <b>Quoted</b> ). <a href="#">[Article]</a>                |
| Aug. 2020 | <i>CBS News</i> , "In just 15 years, the Arctic Ocean may be ice-free in summer, study says" ( <b>Quoted</b> ). <a href="#">[Article]</a>       |


|           |  |
|-----------|--|
| Jul. 2020 | <i>E&amp;E News</i> , "Fires, heat and a cyclone. Arctic breaks melting record" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Jul. 2020 | <i>CSU Engineering Source News</i> , "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</i> , <i>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</i> , <i>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>Earthier</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>Earthier</i> , "There's Way Too Little Ice Around Svalbard Right Now" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |

|           |  |
|-----------|--|
| May 2018  | <i>The Washington Post, Capital Weather Gang</i> , "'Fallen off a cliff': Scientists have never observed so little ice in the Bering Sea in spring" ( <b>Quoted</b> ). <a href="#">[Article]</a> |
| Mar. 2018 | <i>Earthier</i> , "Both Poles Are Having a Weird, Bad Year For Sea Ice So Far" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Mar. 2018 | <i>United States Senate – Senator Sheldon Whitehouse (D-RI)</i> , "Time to wake up: Climate Progress" ( <b>Supplied Graphic</b> ). <a href="#">[Speech]</a>                                      |
| Feb. 2018 | <i>PennLive</i> , "Harrisburg-area grad, scientist fuels buzz behind news that North Pole temps surged past freezing" ( <b>Interview</b> ). <a href="#">[Article]</a>                            |
| Feb. 2018 | <i>Mashable</i> , "Drastic Arctic warm event stuns scientists, as record-breaking temperatures reach the North Pole" ( <b>Quoted</b> ). <a href="#">[Article]</a>                                |
| Feb. 2018 | <i>The Washington Post, Capital Weather Gang</i> , "North Pole surges above freezing in the dead of winter, stunning scientists" ( <b>Quoted</b> ). <a href="#">[Article]</a>                    |
| Feb. 2018 | <i>Earthier</i> , "Bering Sea Ice Is Disappearing When it Should Still Be Growing" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Feb. 2018 | <i>USA Today</i> , "Arctic sea ice at record low January levels" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Feb. 2018 | <i>UT Austin Geosciences</i> , "Social media: changing the science communication landscape" ( <b>Interview</b> ). <a href="#">[Article]</a>  |
| Dec. 2017 | <i>USA Today</i> , "It's cold outside, but that doesn't mean climate change isn't real" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Sep. 2017 | <i>The Sydney Morning Herald</i> , "Attacked from two sides: Antarctic sea ice hits another record low" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Aug. 2017 | <i>The Verge</i> , "This Artist's New Landscape Studies are of Melting Glaciers" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Jul. 2017 | <i>Climate Central</i> , "Here's How Much Arctic Sea Ice Has Melted Since the '80s" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Jun. 2017 | <i>Climate Central</i> , "We Couldn't Monitor Larsen C Without These Satellites" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Apr. 2017 | <i>Mashable</i> , "Arctic ice in retreat: NASA's airborne survey shows how global warming is transforming the Arctic" ( <b>Quoted</b> ). <a href="#">[Article]</a>                               |
| Apr. 2017 | <i>UCI News</i> , "UCI Doctoral student is helping people visualize climate change and its impact on the entire planet" ( <b>Interview</b> ). <a href="#">[Article]</a>                          |
| Mar. 2017 | <i>Carbon Brief</i> , "Sea ice falls to record lows in both the Arctic and Antarctic" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Mar. 2017 | <i>Climate Central</i> , "Arctic Sea Ice Continues Its Astonishing Streak of Lows" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Feb. 2017 | <i>The Washington Post, Capital Weather Gang</i> , "'Beyond the extreme': Scientists marvel at 'increasingly non-natural' Arctic warmth" ( <b>Quoted</b> ). <a href="#">[Article]</a>            |
| Jan. 2017 | <i>UCI News</i> , "Climate change champions" ( <b>Interview</b> ). <a href="#">[Article]</a>   |
| Dec. 2016 | <i>NPR</i> , "North Pole Temperatures Expected To Rise 50 Degrees Above Normal" ( <b>Interview</b> ). <a href="#">[Recording]</a>  |
| Dec. 2016 | <i>Yahoo News</i> , "Bizarre North Pole temperatures cap off year of record-setting warmth" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |

|           |  |
|-----------|--|
| Dec. 2016 | <i>The Washington Post, Capital Weather Gang</i> , "Forecast: North Pole to warm 50 degrees above normal Thursday, near melting point" ( <b>Quoted</b> ). <a href="#">[Article]</a>      |
| Nov. 2016 | <i>American Geophysical Union Blogs</i> , "A conversation with Zack Labe" ( <b>Interview</b> ). <a href="#">[Article]</a>  |
| Nov. 2016 | <i>The Washington Post</i> , "The North Pole is an insane 36 degrees warmer than normal as winter descends" ( <b>Quoted</b> ). <a href="#">[Article]</a>                                 |
| Oct. 2016 | <i>The Sydney Morning Herald</i> , "Polar heatwaves have ice in retreat at both ends of the planet" ( <b>Quoted</b> ). <a href="#">[Article]</a>   |
| Oct. 2016 | <i>The Washington Post, Capital Weather Gang</i> , "Arctic sea ice is at a record low and could, in spurts, disappear within our lifetimes" ( <b>Quoted</b> ). <a href="#">[Article]</a> |
| Oct. 2016 | <i>Climate Central</i> , "This is What It's Like To Be a Young Climate Scientist" ( <b>Interview</b> ). <a href="#">[Article]</a>  |
| Sep. 2016 | <i>New York Times, Dot Earth</i> , "Arctic Summer Sea Ice – Going Down, Down, Down" ( <b>Contributed</b> ). <a href="#">[Article]</a>  |
| Sep. 2016 | <i>Mashable</i> , "Sailboat nears goal of circumnavigating the Arctic as sea ice plummets" ( <b>Quoted</b> ). <a href="#">[Article]</a>  |
| Aug. 2016 | <i>Cornell University</i> , "Early-onset spring models may indicate 'nightmare' for ag" ( <b>Press Release</b> ). <a href="#">[Article]</a>  |
| Jul. 2016 | <i>The Weather Junkies Podcast</i> , "The Science of Modeling Climate & Weather" ( <b>Interview</b> ). <a href="#">[Recording]</a>   |

Visit my [Twitter](#) (>28,000 followers)  !

## PERSONAL INTERESTS

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