

Zachary M. Labe

CONTACT INFORMATION

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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

- [9] Peings, Y., **Z.M. Labe**, and G. Magnusdottir (2021), Are 100 ensemble members enough to capture the remote atmospheric response to +2°C Arctic sea ice loss? *Journal of Climate*, DOI:10.1175/JCLI-D-20-0613.1. [\[Article\]](#)
- [8] Timmermans, M.-L. and **Z.M. Labe** (2020). Sea surface temperature [in "Arctic Report Card 2020"], NOAA, DOI:10.25923/v0fs-m920. [\[Article\]](#)
- [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

- [2] Timmermans, M.-L. and **Z.M. Labe** (2021), [The Arctic] Sea surface temperature [in "State of the Climate in 2020"]. *Bull. Amer. Meteor. Soc.* (*in review*)
- [1] **Labe, Z.M.** and E.A. Barnes (2021), Detecting climate signals using explainable AI with single-forcing large ensembles. *Journal of Advances in Modeling Earth Systems* (*in revision*) [\[Preprint\]](#)

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

- [16] **Labe, Z.M.** Communicating Arctic climate change through data-driven stories. *Arctic Science Summit Week 2021*, Lisbon, Portugal (Mar 2021). **(Invited-Remote)**
- [15] **Labe, Z.M.** The pan-Arctic impacts of thinning sea ice. Local Environmental Observer (LEO) Network, Anchorage, AK (Jan 2021). **(Invited-Remote)**
- [14] **Labe, Z.M.** and E.A. Barnes. Disentangling Climate Forcing in Multi-Model Large Ensembles Using Neural Networks. *20th Conference on Artificial Intelligence for Environmental Science*, Virtual Conference (Jan 2021). [\[Abstract\]](#)
- [13] **Labe, Z.M.** Why is it difficult to resolve future projections of Arctic-midlatitude linkages? Atmospheric Dynamics Seminar, Colorado State University, CO (Dec 2020). **(Remote)**
- [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, AK (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. Anomalous Early Onset of Spring in the CESM Large Ensemble Project, *14th Annual AMS Student Conference*, Phoenix, AZ (Jan 2015). [\[Poster\]](#)

OTHER PRESENTATIONS

- [8] Magnusdottir, G., **Z.M. Labe**, and Y. Peings. The midlatitude response to Arctic sea-ice decline, compared to the response to the full effects of Arctic amplification. *34th Conference on Climate Variability and Change*, Virtual Conference (Jan 2021). [\[Abstract\]](#)
- [7] Peings, Y., G. Magnusdottir, and **Z.M. Labe**. Are 100 ensemble members enough to capture the remote atmospheric response to +2°C Arctic sea ice loss? *34th Conference on Climate Variability and Change*, Virtual Conference (Jan 2021). [\[Abstract\]](#)
- [6] Magnusdottir, G., **Z.M. Labe**, and Y. Peings. How does the atmospheric response to Arctic sea-ice decline compare to the full effect of the Arctic Amplification? *2020 American Geophysical Union Annual Meeting*, Virtual Conference (Dec 2020). [\[Abstract\]](#)
- [5] Peings, Y., **Z.M. Labe**, and G. Magnusdottir. Are 100 ensemble members enough to capture the remote atmospheric response to +2°C Arctic sea ice loss? *2020 American Geophysical Union Annual Meeting*, Virtual Conference (Dec 2020). [\[Abstract\]](#)
- [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

Feb. 2021	<i>School of Global Environmental Sustainability - HumanNature Blog</i> , 'Telling stories with data' - Blog Post (Author) [Article]
Jan. 2021	<i>20th AMS Annual Student Conference</i> , Poster Judge (Remote)
Oct. 2020	<i>Cornell Chapter of the American Meteorological Society</i> , Professional Series: Academic Sector (Panelist-Remote)
Oct. 2020	<i>AMS Early Career Leadership Academy</i> , Session on Climate Change Communications (Panelist-Remote)
Sep. 2020	<i>Polar Bears International</i> , 'A Sign of the Future: Summer 2020 in the Arctic' - Blog Post (Author) [Article]
Jul. 2020	<i>Polar Bears International</i> , 'State of the Arctic in 2020' - Blog Post (Author) [Article]
Mar. 2020	<i>Climate, Literacy, Empowerment And iNquiry (CLEAN)</i> , The Cryosphere Outreach event, MacArthur Fundamental Intermediate School, Santa Ana, CA (Presenter)
Feb. 2020	<i>Irvine Unified School District's 39th Annual Science Fair</i> , Physical science project judge, Irvine, CA (Volunteer)
Jan. 2020	<i>100th American Meteorological Society Annual Meeting</i> : Side Panel - Using Social Media to Communicate Climate Science, Boston, MA. (Chair) [Abstract]
Nov. 2019	<i>Department of Earth System Science</i> , Improving scientific graphics of climate (change) data, University of California, Irvine, CA. (Presenter)

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

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

PROFESSIONAL ACTIVITIES

2020-Present	Conference Paper Referee - <i>AI4Earth NeurIPS</i>
2020-Present	Board of Advisors for the NCAR/UCAR Climate Data Guide
2020-Present	Proposal Referee - <i>NSF (GEO/AGS)</i>
2018-Present	Journal Manuscript Referee [Publons] - <i>Atmosphere-Ocean, Climate Dynamics, Geophysical Research Letters, International Journal of Climate, Journal of Climate, Journal of Geophysical Research: Atmospheres, Journal of Glaciology, Nature Climate Change, Nature Communications, Polar Geography, Weather and Climate Dynamics</i> ,
2019-2021	Student Board Member, American Meteorological Society's Board on Societal Impacts
2017-2020	Vice President & Communications Chair, Student Chapter of the American Meteorological Society at the University of California, Irvine [Website]
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" [Website]
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 *Lance* - 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

TECHNICAL SKILLS

Programming: Python, MATLAB, R, Fortran, Unix, HTML, $\text{T}_{\text{E}}\text{X}$, \LaTeX , $\text{BibT}_{\text{E}}\text{X}$
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

Feb. 2021 *KCSU FM Radio*, "Explaining the polar vortex, U.S. COVID-19 deaths pass 500,000" (**Interview**). [\[Radio\]](#)
Feb. 2021 *Weather Geeks Podcast*, "Arctic Report Card 2020" (**Interview**). [\[Podcast\]](#)
Jan. 2021 *Blasting News*, "Zack Labe on Arctic climate change: It's important to communicate data in an accessible way" (**Interview**). [\[Article\]](#)
Jan. 2021 *CBS News*, "Sudden stratospheric warming could mean wild winter storms ahead" (**Quoted**). [\[Article\]](#)
Jan. 2021 *Inside Climate News*, "Many Scientists Now Say Global Warming Could Stop Relatively Quickly After Emissions Go to Zero" (**Quoted**). [\[Article\]](#)
Dec. 2020 *Australian Broadcasting Corporation*, "The vanishing Arctic" (**Quoted**). [\[Article\]](#)


Dec. 2020	<i>Cambridge Climate Lecture Series: Shaping the Future Podcast</i> , "Decoding NOAA's Arctic Report Card With Contributing Climate Scientist, Dr Zack Labe" (Interview). [Podcast]
Dec. 2020	<i>The Guardian</i> , "Greenhouse gas emissions transforming the Arctic into an entirely different climate" (Quoted). [Article]
Nov. 2020	<i>CBS News</i> , "Temperatures in the Arctic are astonishingly warmer than they should be" (Quoted). [Article]
Nov. 2020	<i>Cambridge Climate Lecture Series: Shaping the Future Podcast</i> , "Laptev Sea Not Refreezing & Other Arctic Climate Notes With Dr. Zack Labe" (Interview). [Podcast]
Oct. 2020	<i>High North News</i> , "Large Parts of Arctic Ocean See Delayed Re-freeze With Sea Ice at Record Low" (Quoted). [Article]
Oct. 2020	<i>Vox</i> , "Why the record low Arctic sea ice this October is so alarming" (Quoted). [Article]
Oct. 2020	<i>The Guardian</i> , "Alarm as Arctic sea ice not yet freezing at latest date on record" (Quoted). [Article]
Sep. 2020	<i>National Geographic</i> , "The jet stream is bringing fire weather to the West and a chill to the East" (Quoted). [Article]
Sep. 2020	<i>ABC News</i> , "2nd-lowest Arctic sea ice increases concerns about impact of climate change on Indigenous communities" (Interview). [Video]
Sep. 2020	<i>The Washington Post</i> , <i>Capital Weather Gang</i> , "Arctic sea ice slides to second-lowest level on record, thanks to Siberian heat waves" (Quoted). [Article]
Sep. 2020	<i>Earth.com</i> , "Arctic sea ice reached its second lowest extent this year" (Quoted). [Article]
Sep. 2020	<i>High North News</i> , "Arctic Sea Ice Shrinks to Second-Lowest Extent Amid Record High Temperatures" (Quoted). [Article]
Sep. 2020	<i>Earthr</i> , "Arctic Sea Ice Hit a Scary Milestone" (Quoted). [Article]
Sep. 2020	<i>Mashable</i> , "Arctic ice drops below a grim benchmark" (Quoted). [Article]
Sep. 2020	<i>Carbon Brief</i> , "Arctic sea ice shrinks to second-lowest summer minimum on record" (Quoted). [Article]
Aug. 2020	<i>Val 202 - Slovene radio station</i> , "Globalne temperature v vzponu, Arktika kmalu brez ledu" (Interview). [Article]
Aug. 2020	<i>Bloomberg</i> , "The First Arctic Summer Without Ice Is Coming in Just 15 Years" (Quoted). [Article]
Aug. 2020	<i>CBS News</i> , "In just 15 years, the Arctic Ocean may be ice-free in summer, study says" (Quoted). [Article]
Jul. 2020	<i>E&E News</i> , "Fires, heat and a cyclone. Arctic breaks melting record" (Quoted). [Article]
Jul. 2020	<i>CSU Engineering Source News</i> , "Five questions with Atmospheric Science climate scientist Zachary Labe" (Interview). [Article]
Jul. 2020	<i>TBS eFM</i> , "Live radio broadcast on "This Morning" show in Seoul, South Korea" (Interview). [Recording]
Jul. 2020	<i>Vice</i> , "Siberia's Heat Wave Triggered an Arctic Sea Ice Melt Down" (Quoted). [Article]
Jul. 2020	<i>Mashable</i> , "Why Arctic sea ice just crashed to an extreme, record low" (Quoted). [Article]
Jul. 2020	<i>9News</i> , "Climate change: Siberian Arctic ice forming less, melting faster than any year since 1979" (Quoted). [Article]
Jul. 2020	<i>The Hill</i> , "Climate researcher details historic significance of recent warming in Siberia" (Interview). [Article]

Jul. 2020	<i>Sustainability</i> – CSU, "SHH! Sustainability Happy Hour with Dr. Zack Labe" (Interview). [Video]
Jul. 2020	<i>Rising</i> – Hill.TV, "Climate Scientist: Why You Should Worry About 100 Degree Temps In Siberia" (Interview). [Video]
Jul. 2020	<i>National Geographic</i> , "A heat wave thawed Siberia's tundra. Now, it's on fire" (Quoted). [Article]
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" (Quoted). [Article]
Jun. 2020	<i>The Telegraph</i> , "Siberia heatwave: Fears of 'irreversible' permafrost melt as Russian village sees record temperatures" (Quoted). [Article]
Jun. 2020	<i>Mashable</i> , "How the Arctic Circle just eclipsed 100 degrees" (Quoted). [Article]
Jun. 2020	<i>CBS News</i> , "2020 likely to be the warmest year on record globally" (Quoted). [Article]
Jun. 2020	<i>UCI News</i> , "Zack Labe cracks a cold case" (Interview). [Article]
May 2020	<i>The Washington Post, Capital Weather Gang</i> , "Parts of Siberia are hotter than Washington, with temperatures nearly 40 degrees above average" (Quoted). [Article]
May 2020	<i>The Washington Post, Capital Weather Gang</i> , "Unusual warmth pours over North Pole, potentially jump-starting melt season for Arctic ice" (Quoted). [Article]
Apr. 2020	<i>Nightingale</i> – <i>The Journal of the Data Visualization Society</i> , "Six Iconic Environmental Visualizations for Earth Day" (Listed). [Article]
Mar. 2020	<i>Mashable</i> , "Even after a frigid winter, Arctic sea ice is still really low" (Quoted). [Article]
Feb. 2020	<i>You've Been Warmed Podcast</i> , "The Power Of Visualizing Data In Climate Communication w/ Zack Labe" (Interview). [Podcast]
Dec. 2019	<i>AGU Annual Meeting</i> , "Department of Earth System Science, University of California, Irvine - promo" (Interview). [Video]
Nov. 2019	<i>Euronews</i> , "Arctic ice reached record low in October" (Quoted). [Article]
Sep. 2019	<i>Carbon Brief</i> , "Arctic sea ice summer minimum in 2019 is 'joint-second lowest' on record" (Quoted). [Article]
Sep. 2019	<i>Mashable</i> , "Arctic sea ice plunges to dismal levels" (Quoted). [Article]
Sep. 2019	<i>Euronews</i> , "How summer 2019 was hellish for the Arctic, the frontline of climate change and global warming" (Quoted). [Article]
Aug. 2019	<i>The Guardian</i> , "Alaska records warmest month ever in July with coastline barren of sea ice" (Quoted). [Article]
Aug. 2019	<i>TIME</i> , "Alaska's Sea Ice Has Its Lowest August Levels Ever" (Quoted). [Article]
Aug. 2019	<i>Mashable</i> , "Greenland's melting hits overdrive" (Quoted). [Article]
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PERSONAL INTERESTS

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