Zachary M. Labe

CONTACT INFORMATION

Ph.D. Candidate, 2101 Croul Hall Department of Earth System Science University of California, Irvine Irvine, California 92697-3100 USA **☎** 717.*xxx*.*xxxx*

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, CA (GPA: 3.99/4.00)

Ph.D. Candidate in Earth System Science (expected May 2020) Advisor: Dr. Gudrun Magnusdottir

The University of California, Irvine, CA (GPA: 3.98/4.00)

M.Sc. in Earth System Science, Sep 2017

Cornell University, Ithaca, NY

B.Sc. in Atmospheric Science, May 2015, *Distinction in Research*Thesis: Anomalously Early Onset of Spring in the CESM Large Ensemble Project
Minor: Dyson Business Minor for Life Sciences

SCIENTIFIC RESEARCH EXPERIENCE

2015-Present 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

[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] 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. (in revision)

Non-refereed/Other

[1] Labe, Z.M., April 2015: Anomalously Early Onset of Spring in the CESM Large Ensemble. Cornell University. Undergraduate Honors Thesis. [PDF]

ORAL Presentations

- [9] Labe, Z.M. Projections of a future Arctic climate. Geography Department, Irvine Valley College, CA (May 2019). (Invited)
- [8] 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]
- [7] 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]
- [6] 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).
- [5] Labe, Z.M. Disentangling Arctic climate change and variability. Geography Department, Irvine Valley College, CA (Apr 2018). (Invited)
- [4] 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).
- [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] 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]
- [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]

FELLOWSHIPS AND AWARDS

Jan. 2019	Outstanding Student Presentation Award - AMS Conference on Mid-
	dle 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

Sp. 2019	Teaching Assistant, Earth System Physics
Wi. 2019	Teaching Assistant, Weather Analysis
Fa. 2016	Teaching Assistant, Fundamental Processes in Earth and Environmen-
	tal 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

Itemica Bancai	ional retrotties
May. 2019	College and Career Day Experience, MacArthur Fundamental Interme-
	diate School, Santa Ana, CA (Presenter)
Apr. 2019	Vista Verde School, Weather and climate booth at an Earth Science Day
	fair, Irvine, CA (Presenter)
Mar. 2019	Climate, Literacy, Empowerment And iNquiry (CLEAN), Weather
	and Climate Outreach event, MacArthur Fundamental Intermediate
	School, Santa Ana, CA (Presenter)
Feb. 2019	Orange County Regional Science Olympiad, Climate Science-
	Meteorology exam writer and proctor, Irvine, CA (Event Supervisor)
Feb. 2019	Climate, Literacy, Empowerment And iNquiry (CLEAN), The
	Cryosphere Outreach event, MacArthur Fundamental Intermediate
	School, Santa Ana, CA (Presenter)
Dec. 2018	NOAA, Arctic Report Card - Update for 2018. [Contributed Graphics]
Oct. 2018	Brews and Brains: TED-Style Talk, Our Changing Arctic, Fireside Tav-
	ern, Costa Mesa, CA. (Invited Presenter). [Recording]
Oct. 2018	Unified Irvine School District, "Ask-A-Scientist/Engineer Night" at
	Rancho San Joaquin Middle School, Orange County, CA (Volunteer)
Sep 2018	UC Irvine Graduate Orientation, Session Title - Student Panel - Em-
	bracing Your New Graduate Life, Irvine, CA (Panelist)
May 2018	Vista Verde School, Weather and climate booth at an Earth Day fair,
•	Irvine, CA (Presenter)
Feb. 2018	Irvine Unified School District's 37th Annual Science Fair, Physical science
	project judge, Irvine, CA (Volunteer)
	project judge, if thie, off (totalitet)

Feb. 2018	Climate, Literacy, Empowerment And iNquiry (CLEAN), Weather and Climate Outreach event, MacArthur Fundamental Intermediate
	School, Santa Ana, CA (Presenter)
Feb. 2018	Orange County Regional Science Olympiad, Climate Science- Meteorology exam writer and proctor, Irvine, CA (Event Supervisor)
Feb. 2018	Climate, Literacy, Empowerment And iNquiry (CLEAN), The Cryosphere Outreach event, MacArthur Fundamental Intermediate
	School, Santa Ana, CA (Presenter)
Sep. 2017	Unified Irvine School District, "Ask-A-Scientist/Engineer Night" at
	Rancho San Joaquin Middle School, Orange County, CA (Volunteer)
Aug. 2017	Unified Irvine School District, "Ask-A-Scientist/Engineer Night" at
	Rancho San Joaquin Middle School, Orange County, CA (Volunteer)
Aug. 2017	NASA DIRECT-STEM Program, Assessing a changing Arctic (Invited
	Presenter).
Apr. 2017	Climate Data Hackathon, Looking for clues to changes in Arctic sea
	ice, University of California, Irvine. (Invited Presenter). [Syllabus/GitHub]
Feb. 2017	Irvine Unified School District's 36th Annual Science Fair, Physical science
100. 2011	project judge, Irvine, CA (Volunteer)
Feb. 2017	Orange County Regional Science Olympiad, Severe Storms-Meteorology
100. 2011	exam writer and proctor, Irvine, CA (Event Supervisor)
Wi. 2017	Seminar Course – Teaching Topics in Earth System Science (Training)
Oct. 2016	Unified Irvine School District, "Ask-A-Scientist/Engineer Night" at
Oct. 2010	Rancho San Joaquin Middle School, Orange County, CA (Volunteer)
Aug. 2016	NASA DIRECT-STEM Workshop, Data and Analysis of Arctic Climate
Mug. 2010	
	Change in CMIP5 using Python (Instructor). [Syllabus/GitHub] University of California, Irvine
	Oniversity of Camornia, it vine

Professional Activities

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Research Letters,
tmospheres, Jour-
erican Meteoro-
Website]
ciety's Commit-
o, University of
·
: "Sea Ice Thick-
site]
Chapter, Cornell
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Affiliations/Memberships

2016-Present	Association of Polar Early Career Scientists, Member
2015-Present	American Geophysical Union, Member
2014-Present	National Weather Association, Member
2009-Present	American Meteorological Society, Member

Professional Travel	Field Work May 2017		d Summer Schools: Norway–Canada–USA col- of Tromsø, Norway (Workshops); Longyear- Cruise - sea ice)
	Workshops Apr. 2018 Jun. 2017	mospheric Research (N	uses and Consequences of Polar Amplification,
	Conferences Jan. 2017 Jan. 2015 Feb. 2014 Jan. 2013	95^{th} American Meteor 94^{th} American Meteor	rological Society Annual Meeting, Seattle, WA rological Society Annual Meeting, Phoenix, AZ rological Society Annual Meeting, Atlanta, GA rological Society Annual Meeting, Austin, TX
TECHNICAL SKILLS			ortran, Unix, HTML, TEX, LATEX, BIBTEX O, NCO, CDO, GrADS, Git
		Visit my GitHub ? !	
GRADUATE COURSEWORK	☐ Geophysical		 □ Geoscience Modeling and Data Analysis □ Global Physical Climatology □ Climate Dynamics □ Climate Change □ Quantitative Methods in Ecology
Undergraduate Coursework	□ Atmospheric□ Synoptic Me□ Physical Met□ Climate Dyn□ Thermodyna	teorology II eorology	 □ Remote Sensing and GIS □ Statistics in Meteorology and Climatology □ Programming and Meteorology Software □ Ordinary and Partial Differential Equations
NEWS AND MEDIA	May 2019 Mar. 2019 Mar. 2019 Mar. 2019 Feb. 2019 Feb. 2019	ishing" (Quoted). [Art Carbon Brief, "Arctic s record" (Quoted). [Ar Axios, "Vanishing ice in (Quoted). [Article] Mashable, "The Bering gone" (Quoted). [Arti CBS News, "Week of normal?" (Quoted). [Arti	sea ice winter peak in 2019 is seventh lowest on ticle] In the Bering Sea drops to lowest level since 1850" Strait should be covered in ice, but it's nearly all cle] remarkable weather extremes: Is this the new

Jan. 2019	Popular Science, "Record cold temperatures don't mean the planet isn't
Oct. 2018	warming" (Quoted). [Article] Mashable, "Things in the middle of the Arctic are getting really strange"
Oct. 2018	(Quoted). [Article] KUCI Radio, "Arctic Sea Ice and Meteorology with Zack Labe"
Sep. 2018	(Interview). [Article] Euronews, "Arctic heatwave could result in summer-like warmth for Alaska" (Quoted). [Article]
Sep. 2018	Carbon Brief, "Arctic sea ice summer minimum in 2018 is sixth lowest
Aug. 2018	on record" (Quoted). [Article] Val 202 - Slovene radio station "The Arctic is rapidly melting"
Jun. 2018	(Interview). [Article] Earther, "There's Way Too Little Ice Around Svalbard Right Now"
May 2018	(Quoted). [Article] The Washington Post, Capital Weather Gang, "'Fallen off a cliff': Sci-
	entists have never observed so little ice in the Bering Sea in spring"
Mar. 2018	(Quoted). [Article] Earther, "Both Poles Are Having a Weird, Bad Year For Sea Ice So Far"
Man 2019	(Quoted). [Article]
Mar. 2018 Feb. 2018	United States Senate - Senator Sheldon Whitehouse (D-RI), "Time to wake up: Climate Progress" (Supplied Graphic). [Speech] PennLive, "Harrisburg-area grad, scientist fuels buzz behind news that
1cb. 2016	North Pole temps surged past freezing" (Interview). [Article]
Feb. 2018	Mashable, "Drastic Arctic warm event stuns scientists, as record-breaking temperatures reach the North Pole" (Quoted). [Article]
Feb. 2018	The Washington Post, Capital Weather Gang, "North Pole surges above
Feb. 2018	freezing in the dead of winter, stunning scientists" (Quoted). [Article] Earther, "Bering Sea Ice Is Disappearing When it Should Still Be Grow-
Feb. 2018	ing" (Quoted). [Article] USA Today, "Arctic sea ice at record low January levels" (Quoted).
Feb. 2018 Feb. 2018	USA Today, "Arctic sea ice at record low January levels" (Quoted). [Article] UT Austin Geosciences, "Social media: changing the science communi-
	USA Today, "Arctic sea ice at record low January levels" (Quoted). [Article] UT Austin Geosciences, "Social media: changing the science communication landscape" (Interview). [Article] USA Today, "It's cold outside, but that doesn't mean climate change
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Dec. 2016	Yahoo News, "Bizarre North Pole temperatures cap off year of record-
	setting warmth" (Quoted). [Article]
Dec. 2016	The Washington Post, Capital Weather Gang, "Forecast: North Pole
	to warm 50 degrees above normal Thursday, near melting point"
	(Quoted). [Article]
Nov. 2016	American Geophysical Union Blogs, "A conversation with Zack Labe"
	(Interview). [Article]
Nov. 2016	The Washington Post, "The North Pole is an insane 36 degrees warmer
	than normal as winter descends" (Quoted). [Article]
Oct. 2016	The Sydney Morning Herald, "Polar heatwaves have ice in retreat at both
	ends of the planet" (Quoted). [Article]
Oct. 2016	The Washington Post, Capital Weather Gang, "Arctic sea ice is at a record
	low and could, in spurts, disappear within our lifetimes" (Quoted).
	[Article]
Oct. 2016	Climate Central, "This is What It's Like To Be a Young Climate Scien-
	tist" (Interview). [Article]
Sep. 2016	New York Times, Dot Earth, "Arctic Summer Sea Ice - Going Down,
	Down, Down" (Contributed). [Article]
Sep. 2016	Mashable, "Sailboat nears goal of circumnavigating the Arctic as sea ice
	plummets" (Quoted). [Article]
Aug. 2016	Cornell University, "Early-onset spring models may indicate 'night-
	mare' for ag" (Press Release). [Article]
Jul. 2016	The Weather Junkies Podcast, "The Science of Modeling Climate &
	Weather" (Interview). [Recording]
	- -
	Visit my Twitter Y !
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PERSONAL INTERESTS

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