

# **LAURA M. CIASTO**

Bjerknes Centre for Climate Research  
Geophysical Institute  
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## **EDUCATION**

- 2004-2008**    **PhD, Atmospheric Science**  
Colorado State University, Fort Collins, CO  
Thesis Advisor: David W. J. Thompson
- 2001-2004**    **M.S., Atmospheric Science**  
Colorado State University, Fort Collins, CO
- 1996-2001**    **B.S., Astronomy/Astrophysics**  
**B.S., Geography**  
Indiana University, Bloomington, IN

## **PROFESSIONAL EXPERIENCE**

- 2014-**        Research Scientist – Geophysical Institute – University of Bergen,  
Bjerknes Centre for Climate Research  
Research Interests:  
large-scale climate dynamics; North Atlantic climate variability, ocean-atmosphere coupling; tropical influence on the global climate; evaluation of model spread in CMIP5
- 2012- 2014**    Postdoctoral Fellow – Geophysical Institute – University of Bergen
- 2008- 2012**    Postdoctoral Fellow - Climate Change Research Centre - University of New South Wales
- 2001-2008**    Graduate Research Assistant - Department of Atmospheric Science - Colorado State University
- 1999-2001**    Undergraduate Research Assistant - Department of Geography – Indiana University
- 1999-2001**    Field Engineer-Morgan Monroe State Forest MMSF-AmeriFLUX Project- Department of Geography – Indiana University

**PUBLICATIONS (IN PREPARATION OR SUBMITTED)**

Turney, C., C. Fogwill, J. Palmer, E. van Sebille, Z. Thomas, M. McGlone, S. Richardson, J. Wilmshurst, P. Fenwick, V. Zunz, H. Goose, K. J. Wilson, L. Carter, M. Lipson, R. Jones, M. Harsch, G. Clark, E. Marzinelli, T. Rogers, E. Rainsley, **L. M. Ciasto**, S. Waterman, and Australasian Antarctic Expedition 2013-2014 Members, 2016: 140-Year Tree-Ring Record of Climate Variability across the Subantarctic Pacific Ocean. *Submitted to Nature Communications*.

**REFEREED PUBLICATIONS**

**Ciasto, L. M.**, C. Li, J. J. Wettstein and N. G. Kvamstø, 2016: North Atlantic Storm Track Sensitivity to Projected Sea Surface Temperature: Local versus Remote Influences. *Accepted to Journal of Climate*.

Schemm, S., **L. M. Ciasto**, C. Li, and N.G. Kvamstø, 2016: Influence of Tropical Pacific Sea Surface Temperature on the Genesis of Gulf Stream Cyclones. *Accepted to Journal of Atmospheric Science*.

Wills, S. M., D. W. J. Thompson and **L. M. Ciasto**, 2016: On the Observed Relationships between Variability in North Atlantic Sea Surface Temperatures and the Atmospheric Circulation. *J. Climate*, **29**, 3719-3730.

**Ciasto, L. M.**, G. R. Simpkins, and M. H. England, 2015: Teleconnections between Tropical Pacific SST Anomalies and the Extratropical Southern Hemisphere Climate. *J. Climate*, **28**, 56-65.

Simpkins, G. R., S. McGregor, A. S. Taschetto, **L. M. Ciasto**, and M. H. England, 2014: Tropical Connections to Climatic Change in the Extratropical Southern Hemisphere: The Role of Atlantic SST Trends. *J. Climate*, **27**, 4923-4936.

Simpkins, G. R., **Ciasto, L. M.**, and M. H. England, 2013: Observed variations in multi-decadal Antarctic sea ice trends during 1979-2009. *Geophys. Res. Lett.*, **40**, 3643–3648.

Simpkins, G. R., **Ciasto, L. M.**, D. W. J. Thompson and M. H. England, 2012: Observed Relationships between Large-Scale Climate Variability and Antarctic Sea Ice Concentration. *J. Climate*, **25**, 5451–5469.

**Ciasto, L. M.**, and M. H. England, 2011: The Extratropical Southern Ocean Mixed Layer Heat Budget associated with ENSO. *Geophys. Res. Lett.*, **38**, L09701.

**Ciasto, L. M.**, M. A. Alexander, C. Deser, and M. H. England, 2011: On the Persistence of Cold Season SST Anomalies associated with the Annular Modes. *J. Climate*, **24**, 2500-2515.

**Ciasto, L. M.**, and David W. J. Thompson, 2009: Observational Evidence of Reemergence in the Extratropical Southern Hemisphere. *J. Climate*, **22**,1446-1453.

**Ciasto, L. M.**, and David W. J. Thompson, 2008: Observations of Large-Scale Ocean-Atmosphere Interaction in the Southern Hemisphere. *J. Climate*, **21**, 1244-1259.

**Ciasto, L. M.**, and David. W. J. Thompson, 2004: North Atlantic Ocean-Atmosphere Interaction on Intraseasonal Timescales. *J. Climate*, **17**, 1617-1621.

## **RESEARCH PROJECTS**

### **Funded**

- *Co-I and Module Leader* – Changed Weather Related Risks by Reducing Global Warming by Half a Degree: Supporting HAPPI by Harvesting from Competence and Tools in EVA – Research Council of Norway – 7/2016-6/2017 – 420 000 NOK
- *Co-I and Module Leader* – DYNAMITE: Dynamics of Arctic-Midlatitude Teleconnections: Mechanisms, Robustness, and Tropical Modulation – Research Council of Norway – 9/2016-3/2020 – 6 622 000 NOK
- *Co-I and Module Leader* – WaCyEx: Water Cycle Extremes across Scales –Centre of Climate Dynamics, Bjerknes Centre – 1/1/2015-12/31/2016 – 2 000 000 NOK
- *Co-I* – EVA: Earth System Modeling of Climate Variations in the Anthropocene – Research Council of Norway – 1/01/2014-12/31/2017 – 7 157 000 NOK
- *Contributor* – JetSTREAM: Atmospheric jet variability: Linking Structure, Evolution and Mechanisms – Research Council of Norway – 09/01/2014-08/31/2018
- *Contributor* – EarthClim: An Integrated Earth System Approach to Explore Natural Variability and Climate Sensitivity – Research Council of Norway – 01/01/2011-6/30/2014
- *Contributor* – IPCC AR5 task force – Centre of Climate Dynamics, Bjerknes Centre – 1/01/2012-12/31/2014

## **CO-SUPERVISION OF GRADUATE STUDENTS**

Graham Simpkins (PhD) 2010-2014

## **TEACHING EXPERIENCE**

### **Department of Atmospheric Science, Colorado State University**

*Teaching Assistant:*

AT655: Objective Analysis in the Atmospheric Sciences (Spring 2003)

AT606: Introduction to Climate (Fall 2005)

### **Climate Change Research Centre, University of New South Wales**

*Teaching Assistant:*

MATHS2240: Introduction to Meteorology and Oceanography (Spring 2009)

*Lab/Tutorial Instructor:*

MSCI3001: Physical Oceanography (Fall 2009)

MSCI5004: Oceanographic Processes (Fall 2009)

*Course Coordinator:*

MSCI3001: Physical Oceanography (Fall 2010/Fall2011)

MSCI5004: Oceanographic Processes (Fall 2010/Fall2011)

*Guest Lecturer:*

MSCI0501: Introduction to the Marine Environment (Spring/Fall 2010)

### **ORAL PRESENTATIONS**

American Meteorological Society 13<sup>th</sup> Conference on the Interactions of the Sea and Atmosphere - Portland, ME - 8/2004 (invited)

8<sup>th</sup> International Conference on Southern Hemisphere Meteorology and Oceanography - Foz do Iguacu, Brazil - 4/2006

AMS 19<sup>th</sup> Conference on Climate Variability and Change - San Antonio, TX - 1/2007

AMS 15<sup>th</sup> Conference on Air-Sea Interactions - Portland, OR - 8/2007

2008 Ocean Sciences Meeting - Orlando, FL - 3/2008

9<sup>th</sup> International Conference on Southern Hemisphere Meteorology and Oceanography - Melbourne, Australia - 2/2009

AMOS 17<sup>th</sup> Annual Conference- Canberra, Australia- 1/2010

2010 Ocean Sciences Meeting – Portland, OR- 2/2010

Australia-New Zealand Climate Forum – 2010- Hobart, Tasmania – 10/2010

Joint Conference of the NZ Meteorological Society and the Australian Atmosphere and Oceanographic Society – Wellington, New Zealand – 2/2011

NCAR Climate Implications of Frontal Air-Sea Interaction – Boulder, CO – 8/2013

European Geophysical Union Annual Meeting – Vienna, Austria – 04/2014

SPARC Workshop on Storm Tracks – Grindelwald, Switzerland – 08/2015

### **POSTER PRESENTATIONS**

1<sup>st</sup> International CLIVAR Science Conference - Baltimore, MD - 6/2004

WCRP Open Science Conference – Denver, CO – 10/2011

AMOS 18<sup>th</sup> Annual Conference- Sydney, Australia- 1/2012

Bjerknes 10-Year Anniversary Conference – Bergen, Norway – 08/2012

American Geophysical Union Fall Meeting – San Francisco, CO – 12/2012

CESM Annual Meeting – Breckenridge, CO – 6/2015

American Geophysical Union Fall Meeting – San Francisco, CO – 12/2015

### **WORKSHOPS**

5<sup>th</sup> CLIVAR/CliC/SCAR Southern Ocean Region Panel – Sydney, Australia – 2/2009

Patullo Conference Mentoring Physical Oceanography Women to Increase Retention (MPOWIR) Program - Charleston, SC – 5/2010

7<sup>th</sup> CLIVAR/CliC/SCAR Southern Ocean Region Panel – Boulder, CO – 10/2011

CESM Climate Variability and Change Working Group Meeting – Boulder, CO – 2/2015

CESM Annual Meeting – Breckenridge, CO – 6/2016

## **SEMINARS**

Dept. of Physical Oceanography, Woods Hole Oceanographic Institution – Woods Hole, MA – 03/11

Climate Change Research Centre, University of New South Wales - Sydney, Australia  
6/2010

Dept. of Atmospheric Science, Colorado State University, - Fort Collins, CO - 8/2007

## **SERVICE AND PROFESSIONAL ACTIVITIES**

### **Reviewer**

Journal of Climate

Bulletin of the American Meteorological Society

Geophysical Research Letters

Climate Dynamics

National Science Foundation

Antarctic Science

Journal of Geophysical Research

Journal of the Atmospheric Sciences

Nature Geoscience

Polar Research

### **Membership and service on professional bodies and societies**

American Meteorological Society (AMS)

American Geophysical Union (AGU)

## **AWARDS/HONORS**

Research and Creative Activity Partnership Award, Indiana University (2000)

1<sup>st</sup> Award Poster Presentation, 1<sup>st</sup> International CLIVAR Science Conference - Baltimore, MD - 2004

1<sup>st</sup> Place Oral Presentation, AMS 15<sup>th</sup> Conference on Air-Sea Interactions - Portland, OR – 2007

Outstanding Poster Presentation - WCRP Open Science Conference – Denver, CO – 2011

Meltzer Fund for Scientific Activity – 11000 NOK – 2015