

# Gregory Tierney

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<b>Education</b>	<b>Ph.D. Candidate</b> <i>University of Michigan, Ann Arbor, MI</i> Advisor: Dr. Derek J. Posselt	<i>January 2014 – Present</i>
	<b>M.S., Atmospheric Science</b> <i>University of Michigan, Ann Arbor, MI</i> Advisor: Dr. Derek J. Posselt	<i>2013</i>
	<b>B.S., Atmospheric Science</b> <i>Cornell University, Ithaca, NY</i>	<i>2012</i>

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<b>Research Experience</b>	<b>Research Assistant/Graduate Research Assistant</b> , Univ. of Michigan Advisor: Dr. D. Posselt, <i>Climate and Space Sciences &amp; Engineering</i> <ul style="list-style-type: none"><li>Projects Include:<ul style="list-style-type: none"><li>High Resolution Modeling of Extratropical Cyclones</li><li>Testing Extratropical Cyclone Sensitivity to Background Environment</li><li>Evaluating the Effect of Latent Heat Release on an Extratropical Cyclone</li></ul></li></ul>	<i>August 2011- Present</i>
	<b>REU Student</b> , University of Michigan Supervising Professor: Dr. D. Posselt, <i>Atmospheric, Oceanic, and Space Sciences</i> <ul style="list-style-type: none"><li>Project: Properties of Clouds and Precipitation in Winter Storm Systems</li></ul>	<i>May 2011 – August 2011</i>
	<b>Research Assistant</b> , Cornell University Supervising Professor: Dr. P. Gierasch, <i>Department of Astronomy</i> <ul style="list-style-type: none"><li>Projects Include:<ul style="list-style-type: none"><li>Cloud properties of Jupiter’s Great Red Spot</li><li>Temporal and Longitudinal Variations in Jovian Winds</li></ul></li></ul>	<i>June 2009 – August 2010</i>

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<b>Teaching Experience</b>	<b>Grader</b> – AOSS 451, Atmospheric Dynamics I	<i>Fall 2014</i>
	<b>Graduate Student Instructor</b> – AOSS 105, Our Changing Atmosphere	<i>Spring 2015</i>
	<b>Grader</b> – AOSS 102, Extreme Weather	<i>Fall 2015</i>
	<b>Grader</b> – AOSS 321, Earth System Dynamics	<i>Spring 2016</i>

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<b>Posters and Presentations</b>	<ul style="list-style-type: none"><li><i>G. Tierney</i>, D. J. Posselt, and J. F. Booth. <u>A Multivariate Analysis of Extratropical Cyclone Environmental Sensitivity</u>. Talk given at the 2015 American Geophysical Union Fall Meeting, San Francisco, CA, December 2015.</li><li>Posselt, D. J.*, <i>G. Tierney</i>, F. He, and N. Narisetty. <u>Systematic exploration of sensitivities in extratropical and tropical cyclones: the multivariate role of dynamics, convection, and cloud microphysics</u>. Talk given at the 17th Cyclone Workshop, Pacific Grove, CA, October 2015.</li><li><i>G. Tierney</i>., J. F. Booth, and D. J. Posselt. <u>Exploring the Sensitivity of Extratropical Cyclones in Changing Climate</u>. Talk given at the 17th Cyclone Workshop, Pacific Grove, CA, October 2015.</li><li><i>G. Tierney</i>, J. F. Booth, and D. J. Posselt. <u>Examining Extratropical Cyclone Sensitivity to a Range of Environmental Conditions</u>. Talk given at the 16th AMS Conference on Mesoscale Processes. August 2015.</li><li><u>Testing the Sensitivity of Extratropical Cyclones to Variations in Environmental Conditions</u> <i>G. Tierney</i>, J. Booth, and D. Posselt, Poster at 2014 American Geophysical Union Fall Meeting.</li></ul>
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- Untangling the Effects of Latent Heat Release on an Extratropical Cyclone Using Potential Vorticity Analysis. *G. Tierney, D. Posselt*. Poster at 26th Conference on Weather Analysis and Forecasting / 22nd Conference on Numerical Weather Prediction at the 94<sup>th</sup> American Meteorological Society Annual Meeting (2014)
- Evaluation of the Effect of Latent Heat Release on an Extratropical Cyclone by Simulation and Observational Comparison. *G. Tierney, D. Posselt*. Poster at 12th Annual AMS Student Conference. (2013)
- A Multi-Sensor Satellite-Based Examination of Cloud Structure, Precipitation, and the Thermodynamic Environment in a Warm Frontal Cloud System. Posselt, D. J., J. A. Crespo, *G. Tierney*, and C. M. Naud. 18th Conference on Satellite Meteorology, Oceanography and Climatology at the 92nd American Meteorological Society Annual Meeting. (2012)
- The Effect of Latent Heat Release in the Warm Conveyor Belt on the Structure and Evolution of an Extratropical Cyclone. *G. Tierney, D. Posselt*. Poster at 11th Annual AMS Student Conference. (2012)

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<b>Publications</b>	<i>G. Tierney, D. J. Posselt, and J. F. Booth, 2016: <u>Examining the effect of Latent Heat Release on Extratropical Cyclone Strength within a Temperature Sensitivity Framework</u>. To Be Submitted</i>	
<b>Professional Affiliations</b>	<b>American Meteorological Society</b>	<i>2011 – Present</i>
	<b>American Geophysical Union</b>	<i>2014 – Present</i>
<b>Awards and Honors</b>	<b>Michigan Geophysical Union – 2<sup>nd</sup> Place, AOSS: Climate &amp; Meteorology</b>	<i>2013</i>
<b>University Service</b>	<b>Co-President, CLaSP Graduate and Undergraduate Student Organization</b>	<i>2015 - present</i>
	<b>Michigan Geophysical Union Organizing Committee</b>	<i>2015 - present</i>

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