

## CURRICULUM VITAE

**Bryan A. Mroczka, MS/CCM**  
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(850)-694-2851

### CURRENT POSITIONS

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November 2021 – Present      **Certified Consulting Meteorologist (CCM) / Forensic Meteorologist**  
Streamline Weather Consulting, LLC  
Northville, MI

August 2021 – Present      **Physical Scientist**  
Great Lakes Environmental Research Laboratory (GLERL)  
Integrated Physical and Ecological Modeling and Forecasting (IPEMF)  
Ann Arbor, MI

### EDUCATION

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April 2003      **Master of Science in Meteorology**  
Florida State University - Tallahassee, FL

April 2000      **Bachelor of Science in Meteorology**  
Florida State University - Tallahassee, FL

### PROFESSIONAL EXPERIENCE

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November 2021 – Present      **Certified Consulting Meteorologist (CCM) / Forensic Meteorologist**  
Streamline Weather Consulting, LLC  
Northville, MI

August 2021 – Present      **Physical Scientist**  
Great Lakes Environmental Research Laboratory (GLERL)  
Integrated Physical and Ecological Modeling and Forecasting (IPEMF)  
Ann Arbor, MI

June 2018 – August 2021      **Science and Operations Officer (SOO)**  
National Oceanic & Atmospheric Administration (NOAA)  
National Weather Service (NWS)  
Weather Forecast Office (WFO) - Tampa Bay Area, FL

March 2012 – May 2018      **Senior/Lead Forecaster**  
NOAA NWS WFO - Tampa Bay Area, FL

May 2006 – **General Forecaster**  
March 2012 NOAA NWS WFO - Tallahassee, FL

June 2004 – **Intern Forecaster**  
May 2006 NOAA NWS WFO - Marquette, MI

January 2003 – **Operational Staff Meteorologist**  
May 2004 Meteorologix/DTN, LLC - Boston, MA

August 2000 – **Graduate Research Assistant**  
May 2003 Florida State University - Tallahassee, FL

## COMPUTER SKILLS

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- Linux based computer systems (Red Hat/CentOS) / Windows OS.
- Advanced Weather Interactive Processing System (AWIPS)
- Unidata - Integrated Data Viewer (IDV)
- Programming Languages: Python / Bash / C / Javascript / Fortran / GrADS / HTML5
- Geographic Information Systems (GIS): ArcMap / ArcGis Desktop / ArcGIS Online
- Artificial Intelligence / Machine Learning

## LEADERSHIP TRAINING

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2019 **Science and Operations Officer Development Course.** Kansas City, MO.  
2018 **Building Leaders for a Solid Tomorrow (BLAST) Course.** San Antonio, TX  
2015 **Field Operations Management Course.** Kansas City, MO.

## PUBLICATIONS & CONFERENCE PRESENTATIONS

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- Evaluating the Relationship Between Extratropical Cyclone Tracks and Teleconnection Patterns to Improve Laurentian Great Lakes Water Level Modeling, Jamie Ward, CIGLR, Ann Arbor, MI; and **B. Mroczka**, D. M. Wright, PhD, Y. Hong, and L. Fry, 2024
- Utilization of Novel Observational Platforms and Numerical Weather Prediction Tools to Facilitate Prediction, Detection, and Warning Strategies for Meteotsunami Events within the Laurentian Great Lakes, **Bryan Mroczka**, NOAA, Ann Arbor, MI; 32nd Conference on Weather Analysis and Forecasting (WAF)/28th Conference on Numerical Weather Prediction (NWP)/20th Conference on Mesoscale Processes. 2023.
- Improved Predictability of Lake-Effect Snowfall in the UFS Short-Range Weather Application Through the Use of Modeled Lake Surface Conditions David M. Wright, NOAA, Ann Arbor, MI; and C. Jablonowski, A. Fujisaki-Manome, **B.**

**Mroczka, D.** Titze, G. Mann, and E. J. Anderson; 32nd Conference on Weather Analysis and Forecasting (WAF)/28th Conference on Numerical Weather Prediction (NWP)/20th Conference on Mesoscale Processes. 2023.

- Austin, M., **Mroczka, B.**, Jillson, E., Baron, T., Urizar, C. (2017). Leveraging Innovation through Collaboration: Enhancing Impact-Based Decision Support Services for Marine Interests in and Around Tampa Bay, Florida. 97<sup>th</sup> AMS Annual Meeting, Seattle, WA, January 22-26, 2017.
- Paxton, C., **Mroczka, B.**, McKaughan, A., Kryston, C., (2017). Southwest Florida Warm Season Waterspouts. 97<sup>th</sup> AMS Annual Meeting, Seattle, WA, January 22-26, 2017.
- **Mroczka, B.**, Lericos, T., Fournier, J., (2011). The Use of High Resolution Models in Forecasting the Deep South Ice Storm of January 10<sup>th</sup>, 2011. Submission to the 2011 NWA Conference, 15-20 October 2011, Birmingham, AL.
- Fournier, J., **Mroczka, B.**, Lericos, T. (2011). A Comparison of Statistical Versus Explicit Convection Model Precipitation Forecasts During the Summer Convective Season in Tallahassee, FL. Submission 2011 NWA Conference, 15-20 October 2011, Birmingham, AL.
- **Mroczka, B.A.**, Camp, J.P., Gould, K.J., Watson, A.I. (2010). Improving the temporal and spatial resolution of the forecast of sea-breeze generated convection along the southeast U.S. coast. 90<sup>th</sup> AMS Annual Meeting, Atlanta, GA, January 18-22, 2010.

## **NOTEABLE AWARDS AND RECOGNITION**

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- 2024 **NOAA Bronze Medal Award:** Great Lakes Environmental Research Laboratory. "*For developing an innovative partnership with Viking Expeditions to advance NOAA's mission in environmental science, stewardship and the blue economy*".
- 2023 **National Weather Service: Issac Cline Award:** Outreach Category
- 2015 **NOAA Bronze Medal Award:** NWS Tampa Bay Area and NOAA National Ocean Service (NOS). "*For implementing environmental and ecological services targeted to improve human health, promote safe marine navigation, and build coastal resiliency*".
- 2013 **Southern Region Director's Award:** Teamwork and Operational Service Improvement.
- 2011 **Southern Region Director's Award:** Teamwork and Operational Service Improvement.
- 2009 **Southern Region Director's Award:** Teamwork and Operational Service Improvement.