CURRICULUM VITAE

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

CURRENT POSITIONS

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

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

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

- 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

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

- 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. 97th AMS Annual Meeting, Seattle, WA, January 22-26, 2017.
- Paxton, C., **Mroczka**, **B**., McKaughan, A., Kryston, C., (2017). Southwest Florida Warm Season Waterspouts. 97th 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 10th, 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. 90th AMS Annual Meeting, Atlanta, GA, January 18-22, 2010.

NOTEABLE AWARDS AND RECOGNITION

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.