J. Jacob A. Huff

* Email: jhuff@woodwellclimate.org

EDUCATION

M.S. in Marine and Atmospheric Science Aug. 2015 – Jan. 2018
Stony Brook University, Stony Brook, NY graduation: Jan. 2018
Department of Marine and Atmospheric Sciences
Thesis Title: Evaluating the Influence of CAM5 Aerosol Configuration on Simulated Tropical Cyclones in the North Atlantic and Associated East Coast Precipitation

B.S. in Meteorology and Geography Aug. 2011 – May 2015
Valparaiso University, Valparaiso, IN graduation: May 2015
Department of Meteorology and Geography

PROFESSIONAL EXPERIENCE

Research Assistant III Jan 2024 - present
Research Assistant II Aug 2021 – Jan 2024
Woodwell Climate Research Center, Falmouth, MA
Risk Program

Visiting Scientist May 2019 – Aug 2021
University Corporation for Atmospheric Research, Boulder, CO
Geophysical Fluid Dynamics Laboratory, Princeton, NJ

GIS Technician Jan 2019 – April 2019
Continental Mapping Consultants
Sun Prairie, WI

Research Assistant June 2016 – Jan 2018
Stony Brook University, Stony Brook, NY
Department of Marine and Atmospheric Sciences

Teaching Assistant Aug. 2015 – May 2016
Stony Brook University, Stony Brook, NY
Department of Marine and Atmospheric Sciences

ADDITIONAL EXPERIENCE

CESM Tutorial Aug. 8, 2016 – Aug. 12, 2016
National Center for Atmospheric Research, Boulder, CO

Significant Opportunities in Atmospheric Research and Sciences Academy June 2014
National Center for Atmospheric Research, Boulder, CO

PUBLICATIONS

Huff, J. Jacob, Dusseau, D. (2023). **Climate risk assessment Brockton, Massachusetts.** **https://woodwellclimate.org/climate-risk-assessment-brockton-massachusetts/**

Gassert, K. N., Dusseau, D., Huff, J. Jacob, Dobler-Morales, C. (2023). **Climate risk assessment: Martha's Vineyard, Massachusetts.** **https://www.woodwellclimate.org/climate-risk-assessment-marthas-vineyard-massachusetts/**

Huff, J. Jacob, Dusseau, D. (2023). **Climate risk assessment Plymouth, Massachusetts.** **https://www.woodwellclimate.org/climate-risk-assessment-plymouth-massachusetts/**

Dusseau, Dominick; Huff, J. Jacob; Woodwell Climate Research Center - Risk Program (2023). **Climate risk assessment: Charleston County, South Carolina.** **https://www.woodwellclimate.org/climate-risk-assessment-charleston-county-south-carolina/**

Huff, J. Jacob, Glenn, D., Bhardwaj, B. (2022). **Climate risk assessment Itahari, Nepal.** **https://www.woodwellclimate.org/climate-risk-assessment-itahari-nepal/**

Gassert, K. N., Dusseau, D., Huff, J. Jacob, Dobler-Morales, C. (2022). **Climate risk assessment Homer and Seldovia, Alaska.** https://www.woodwellclimate.org/climate-risk-assessment-homer-ak-and-seldovia-alaska/

Zhou, L., Harris, L., Chen, J.-H., Gao, K., Guo, H., Xiang, B., et al. (2022). **Improving global weather prediction in GFDL SHiELD through an upgraded GFDL cloud microphysics scheme**. *Journal of Advances in Modeling Earth Systems*, 14, e2021MS002971. https://doi.org/10.1029/2021MS002971

Xiang, B., and Coauthors, 2022: **S2S Prediction in GFDL SPEAR: MJO Diversity and Teleconnections**. Bull. Amer. Meteor. Soc., 103, E463–E484, https://doi.org/10.1175/BAMS-D-21-0124.1.

Harris, L., Zhou, L., Lin, S.-J., Chen, J.-H., Chen, X., Gao, K., et al. (2020). **GFDL SHiELD: A unified system for weather-to-seasonal prediction.** Journal of Advances in Modeling Earth Systems, 12, e2020MS002223. https://doi.org/10.1029/2020MS002223

Reed, K. A., Bacmeister, J. T., Huff, J. J. A., Wu, X., Bates, S. C., & Rosenbloom, N. A. (2019). **Exploring the impact of dust on North Atlantic hurricanes in a high-resolution climate model.** *Geophysical Research Letters*, *46*, 1105–1112. https://doi.org/10.1029/2018GL080642

CONFERENCE PROCEEDINGS

Huff, J., Reed, K. **Exploring Potential Connections Between Tropical Cyclones and Dust in the North Atlantic.** *8th Northeast Tropical Meteorology Workshop,* Rensselaerville, NY, June 20-23, 2017.

PROFESSIONAL SKILLS

- Moderate experience with model setup for LISFLOOD-LP and SWMM
- Basic experience with model setup for SWAN
- Moderate experience with Python
- Advanced experience with QGIS, NCL, and CDO
- Moderate experience with cloud computing (Google Cloud)
- Moderate experience processing data and performing data analysis