Laura Tomkins

Email: lmtomkin@ncsu.edu Phone: (919) 428-8241

Research Interests

Winter storm processes, mesoscale snow banding, remote sensing, shallow cumulus cloud dynamics, mesoscale meteorology, geospatial analytics.

Education

2019-	Ph.D. in Geospatial Analytics Advisor: Dr. Sandra Yuter	North Carolina State University – Raleigh, NC
2019	M.S. in Atmospheric Science Thesis: Regional flow conditions asso over the southeast Atlantic Advisor: Dr. David Mechem	University of Kansas – Lawrence, KS ociated with stratocumulus cloud-clearing events
2017	B.S. in Meteorology Mathematics minor	North Carolina State University – Raleigh, NC Magna Cum Laude

Experience

2019-	Graduate Research Assistant	North Carolina State University	Raleigh, NC
2018-2019	Graduate Research Assistant	University of Kansas	Lawrence, KS
2017-2018	Graduate Teaching Assistant	University of Kansas	Lawrence, KS
2017	Student Intern	National Weather Service	Raleigh, NC
2016	Undergrad. Teaching Assistant	North Carolina State University	Raleigh, NC
2015-2017	Undergrad. Research Assistant	North Carolina State University	Raleigh, NC

Field Experience

2020-	Forecaster	NASA IMPACTS	Wallops Island, VA
2018	Student Assistant (DOW, Mobile mesonet)	RELAMPAGO	Cordoba, Argentina

Honors and Awards

2020	Workshop Funding	NCSU Graduate Student Office	Raleigh, NC
2019	Outstanding Student Presentation	Aerosol-Cloud-Climate Symposium, AMS Annual Meeting	Phoenix, AZ
2019	Travel Grant	KU Graduate Student Office	Lawrence, KS
2018	Travel Award	ASI-FSCA	Cordoba, Argentina
2017	Outstanding Senior in Meteorology	North Carolina State University	Raleigh, NC
2017	Travel Award	NCSU Office of Undergraduate	Raleigh, NC

Publications

Tomkins, L. M., D. B. Mechem, S. R. Rhodes, S. E. Yuter, 2021: Regional flow conditions associated with stratocumulus cloud-eroding boundaries over the southeast Atlantic. *Monthly Weather Review*, conditionally accepted.

Research Presentations

- **Tomkins, L. M.**, D. B. Mechem, S. R. Rhodes, S. E. Yuter, M. A. Miller, 2019: Regional flow conditions associated with stratocumulus cloud-clearing events over the southeast Atlantic. *Abstracts, 18th Conference on Mesoscale Processes*, July 2019, Savannah, GA.
- Rhodes, S., S. E. Yuter, M. A. Miller, R. N. Patel, D. B. Mechem, and **L. M. Tomkins**, 2019: Large-scale environments associated with marine stratocumulus cloud-eroding boundaries. *Abstracts*, 18th Conference on Mesoscale Processes, July 2019, Savannah, GA.
- **Tomkins, L. M.**, D. B. Mechem, S. E. Yuter, M. A. Miller, S. R. Rhodes, 2019: WRF Simulations of Episodes of Stratocumulus Clearing over the Southeast Atlantic. *Abstracts, AMS Symposium on Aerosol–Cloud–Climate Interactions*, January 2019, Phoenix, AZ.
- **Tomkins, L. M.**, N. Hoban, M. Miller, and S. Yuter, 2017: Storm-relative Movements of Mesoscale Snow Bands within coastal Northeast U.S. storms. *Abstracts, AMS 16th Annual Student Conference*, January 2017, Seattle, WA.

Technical Skills

Scripting Languages	Geospatial Software	Modelling
Python	ArcGIS	FORTRAN
Matlab	GRASS GIS	WRF
R	Google Earth Engine	High-performance computing