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Theodore Lee Allen

EDUCATION:

The University of Miami, PhD Meteorology, 2015
East Carolina University, MA Geography, Atmospheric Science Program, 2009
The University of California, Santa Barbara, B.S. Physical Geography, 1999

PROFESSIONAL EXPERIENCE:

- ***Co-founder and CEO Henet aerial buoy systems,*** 2021 – present. Oceanographic tech start-up company producing drones to measure wave height and other physical oceanographic parameters.
- ***Independent Contractor - Assistant Climatologist,*** The Caribbean Institute for Meteorology and Hydrology, 2018 – present. Co-production of monthly seasonal forecast bulletin, meteorology lecturer at The University of the West Indies, Caribbean climate research activities, regional training and stakeholder engagement.
- ***Postdoctoral Research Scientist,*** The International Research Institute for Climate and Society, Earth Institute, Columbia University, 2015 – 2018. Supported interdisciplinary research related to coffee leaf rust in the Jamaican Blue Mountains.
- ***Director of Scientific Applications,*** The International Environmental Data Rescue Organization, 2010 – 2018. Developed value added products from meteorological data and co-lead various international data rescue projects.
- ***Graduate Research Assistant***, The University of Miami, Dept. of Meteorology 2009 – 2015
- ***Graduate Research Assistant***, East Carolina University, Dept. of Geography 2007 – 2009
- ***National Sales Manager,*** GU Sports, Berkeley, CA 2004 – 2007
- ***Teacher,*** Pajaro Unified School District, Santa Cruz, CA, 2003-2004. Physical Science teacher for grades 9-12.
- ***Marine Meteorologist,*** Pacific Weather Analysis, Santa Barbara, CA, 2002-2003. Marine forecasting for public and private sector clients.
- ***Weather Producer***, KSTS Television, San Jose, CA, 2002. Produced on air weather graphics
- ***Senior Chemical Technician***, Santa Barbara, CA, 1999-2001.
- ***Hazardous Materials Operations Technician***, Santa Barbara, CA, 1996-2000.

Consultancies

- ***Consultant – Climate Scientist,*** United Nations Children's Fund (UNICEF), 2023 – present. Data Analysis and Development for the Children's Climate and Disaster Risk Analysis Report.
- ***Consultant – Climate Scientist,*** Caribbean Agricultural Research and Development Institute (CARDI), June – October 2021. Climate scientist to conduct AgroMet training in collaboration with the PPCR Caribbean Regional Program.
- ***Consultant – Climate Scientist,*** OpenPlan Consultants Ltd, 2020 – 2022. Climate data analyst to support a national exposure risk model for three Caribbean islands.
- ***Consultant – Climate Scientist,*** The University of Arizona, Institute of the Environment, 2018 – 2021. Conduct and present research to support an interdisciplinary project focused on climate and health in the Caribbean.
- ***Consultant – Climate Scientist,*** The Stimson Center, 2018 – 2019. Co-developed climate based vulnerability index for two Caribbean islands.
- ***Consultant – Vulnerability, Impact, and Adaptation Analyses in the Caribbean***, CaribSAVE, 2015. Climate data analysis and visualization leading to the development of vulnerability and risk assessment profiles for various Caribbean islands.

Volunteer**,** The UN Food and Agriculture Organization (FAO), Winter 2009, Rome, Italy
Intern, Scripps Institute of Oceanography, El Nino Research Cruise, Fall 1998
Intern, WJXT Weather Forecast Station, Jacksonville, FL, Summer 1998

INTERNATIONAL ENVIRONMENTAL DATA RESCUE PROJECTS:

- Bangladesh Meteorology Department, Dhaka, Bangladesh, December 2015
- Zambia Meteorology Department, Lusaka, Zambia July 2015
- Department of Climate Change and Meteorological Services, Blantyre, Malawi July 2015
- Centre of Hydrometeorological Service at Cabinet of Ministers of the Republic of Uzbekistan (UZHYDROMET), Tashkent, Uzbekistan, October 2014
- African Center for Meteorological and Applications Development (ACMAD), Niamey, Niger July 2013
- National Service of Meteorology and Hydrology (SENAMHI), La Paz, Bolivia April 2012
- National Service of Terrestrial Studies (SNET) San Salvador, El Salvador, June 2011

RESEARCH WORKSHOP PARTICIPATION:

- **Caribbean Climate Outlook Forum (CariCOF) Seasonal Forecast Training Workshop,** 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023. Various locations throughout the Caribbean.
- **Royal Society Frontiers of Science Meeting.** March 2019, Chicheley Hall, UK
- **Community Workshop: COCONet - Results, Sustainability, and Capacity Building.** May 3-5, 2016 Punta Cana, Dominican Republic.
- **WMO International Workshop on Rescuing Climate Heritage of Indian Ocean Countries.** Apr. 21-24, 2014, Maputo, Mozambique
- **2013 Pan American Advanced Studies Institute (PASI) – Atmospheric Processes of Latin America and the Caribbean: Observations, Analysis, and Impacts.** May 27 – June 7, 2013, Cartagena, Colombia.

- **Climate Data Analysis and Visualization Using Online Webtools,** Sept. 25-28, 2012, Dominica.
- **Capacity Building Workshop on Data Rescue and Climate Change Indices: A Contribution to the Implementation of The Global Framework for Climate Services in the Caribbean,** May 7-10, 2012, Kingston, Jamaica.
- **2011 National Center for Atmospheric Research and Center for Disease Control Colloquium on Climate and Health**, July 11-15, 2011 Boulder, Colorado.
- **Asia-Pacific Network for Global Change Research: Improving Pacific Island Meteorological Data Rescue and Data Visualization Capabilities through Involvement in Emerging Climate Research Programs**, Auckland, New Zealand, Sept. 2010.

PROFESSIONAL SERVICE:

- Co-Chair - World Meteorological Organization of the United Nations (WMO) Expert Team on Marine Meteorology and Oceanography for Region IV, *co-chair*, 2021-present
- Task Team on World Meteorological Organization of the United Nations (WMO) accredited ENSO information (TT ENSO), member 2023-present
- World Meteorological Organization of the United Nations (WMO) Education and Training Program on Marine Services Course for the Caribbean, co-facilitator 2022, 2023
- World Meteorological Organization of the United Nations (WMO) Expert Team on Marine Meteorology and Oceanography Capacity Development for Region IV, member 2021-present
- World Meteorological Organization of the United Nations (WMO) State of the Climate Report 2020, 2021, 2022, 2023 co-author
- NOAA CPO grant peer-review panelist, 2017

PROFESSIONAL MEMBERSHIPS:

American Geophysical Union – member 2001-present
American Meteorological Society – member – 2001-present

COMPUTING SKILLS:

GIS: ArcView
Data analysis and visualization: GrADS, IDL, IDV, Python
Remote sensing analysis: ENVI, ERDAS-Imagine
Multimedia: Adobe Photoshop, Premiere Elements, Lightroom

REFEREED PUBLICATIONS:

1. Brotons, M., Haarsma, R., Bloemendaal, N., de Vries, H., **Allen, T**. Drivers of Caribbean precipitation change due to global warming: analyses and emergent constraint of CMIP6 simulations. *Clim Dyn*(2024). https://doi.org/10.1007/s00382-023-07072-3

2. Guido, Z., **Allen, T**., Mason, S., & Méndez-Lázaro, P. (2022). Hurricanes and anomalous heat in the Caribbean. Geophysical Research Letters, 49, e2022GL099740

3. Covert HH, Soares LF, Wahid FA, **Allen T**, Guido Z, Johnson D, Mahon R, Méndez-Lázaro P, Sherman M, St. Ville S, Trotman A, Lichtveld MY. Priorities for Bolstering Public Health Resilience in the Context of Climate Change in Dominica and Puerto Rico. Annals of Global Health. 2022; 88(1): 63, 1–7. DOI: https://doi.org/10.5334/aogh.3876

4. Di Napoli, C., **Allen, T.,** Méndez-Lázaro, P. A., & Pappenberger, F. (2022). Heat stress in the Caribbean: Climatology, drivers, and trends of human biometeorology indices. International Journal of Climatology, 1– 21. https://doi.org/10.1002/joc.7774

5. Hawkins, T.W.; Gouirand, I.; **Allen, T**.; Belmadani, A., Atmospheric Drivers of Oceanic North Swells in the Eastern Caribbean. J. Mar. Sci. Eng. 2022, 10, https://doi.org/10.3390/jmse10020183

6. **Allen, T. L.** and Mapes, B. E. (2017), The late spring Caribbean rain-belt: climatology and dynamics. Int. J. Climatol. doi:10.1002/joc.5136

7. **Allen, T. L.**, Mapes, B. E. and Cavanaugh, N. (2016), Informativeness of wind data in linear Madden–Julian oscillation prediction. Atmosph. Sci. Lett., 17: 362–367. doi: 10.1002/asl.666

8. Cavanaugh NR, **Allen, Teddy**, Subramanian A, Mapes B, Seo H, Miller A (2015) The skill of atmospheric linear inverse models in hind-casting the Madden–Julian Oscillation. Climate Dynamics. doi:10.1007/s00382-014-2181-x

9. Stephenson, T. S., Vincent, L. A., **Allen, T.**, Van Meerbeeck, C. J., McLean, N., Peterson, T. C., Taylor, M. A., Aaron-Morrison, A. P., Auguste, T., Bernard, D., Boekhoudt, J. R. I., Blenman, R. C., Braithwaite, G. C., Brown, G., Butler, M., Cumberbatch, C. J. M., Etienne-Leblanc, S., Lake, D. E., Martin, D. E., McDonald, J. L., Ozoria Zaruela, M., Porter, A. O., Santana Ramirez, M., Tamar, G. A., Roberts, B. A., Sallons Mitro, S., Shaw, A., Spence, J. M., Winter, A. and Trotman, A. R. (2014), Changes in extreme temperature and precipitation in the Caribbean region, 1961–2010. Int. J. Climatol., 34: 2957–2971. doi:10.1002/joc.3889

10. **T. Allen**, S. Curtis, D. Gamble (2010): The Mid-Summer Dry Spell's Impact on Vegetation in Jamaica. Journal of Applied Meteorology and Climatology, 49: 1590-1595. doi: 10.1175/2010JAMC2422.1

11. Gamble, D.W., D. Campbell, **T.L. Allen**, D. Barker, S. Curtis, D.F.M. McGregor, and E.J. Popkee (2010): Climate change, drought, and Jamaican agriculture: Local knowledge and the climate record. Annals of the Association of American Geographers. Vol. 100, No.4, 880-893