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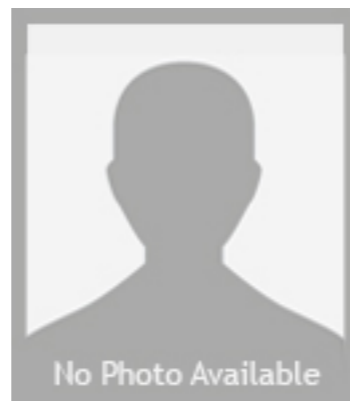
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Katherine A. Melocik



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Chief Research Scientist

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Research Interests

Land Use/ Land Cover Change, Climate Change, Global Carbon Cycle, Big Data

Brief Bio

Work has included research and analysis in a wide range of projects studying terrestrial and climatic variations in the biosphere, cryosphere, and hydrosphere using remote sensing and geographic information system applications.

Education

2011, B.S., Environmental Science, University of Maryland, Baltimore County

2014, M.P.S., Geospatial Information Sciences, University of Maryland, College Park

Publications

Refereed

Tucker, C., M. Brandt, P. Hiernaux, et al. 2023. "Sub-continental-scale carbon stocks of individual trees in African drylands." *Nature*, **615 (7950)**: 80-86 [10.1038/s41586-022-05653-6]

Tucker, C. J., K. A. Melocik, A. Anyamba, et al. 2020. "Reanalysis of the 2000 Rift Valley fever outbreak in Southwestern Arabia." *PLOS ONE*, **15 (12)**: e0233279 [10.1371/journal.pone.0233279]

Brandt, M., **C. J. Tucker**, A. Kariyaa, et al. 2020. "An unexpectedly large count of trees in the West African Sahara and Sahel." *Nature*, **587 (7832)**: 78-82 [10.1038/s41586-020-2824-5]

Brandt, M., K. Rasmussen, P. Hiernaux, et al. 2018. "Reduction of tree cover in West African woodlands and promotion in semi-arid farmlands." *Nature Geoscience*, [10.1038/s41561-018-0092-x]

Yavaşlı, D. D., **C. J. Tucker**, and **K. A. Melocik**. 2015. "Change in the glacier extent in Turkey during the Landsat Era." *Remote Sensing of Environment*, **163**: 32-41 [10.1016/j.rse.2015.03.002]

