

National Aeronautics and  
Space Administration



# EXPLORE SCIENCE

Two New Peer-Reviewed Publications Featuring GLOBE Data

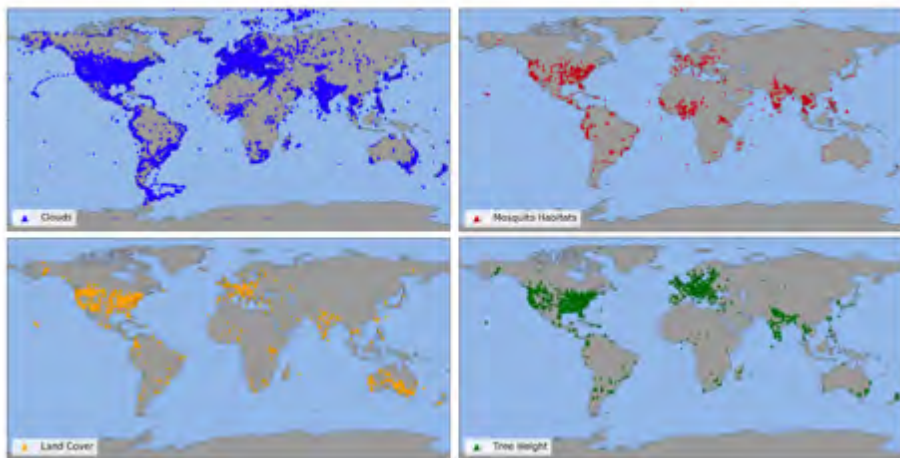
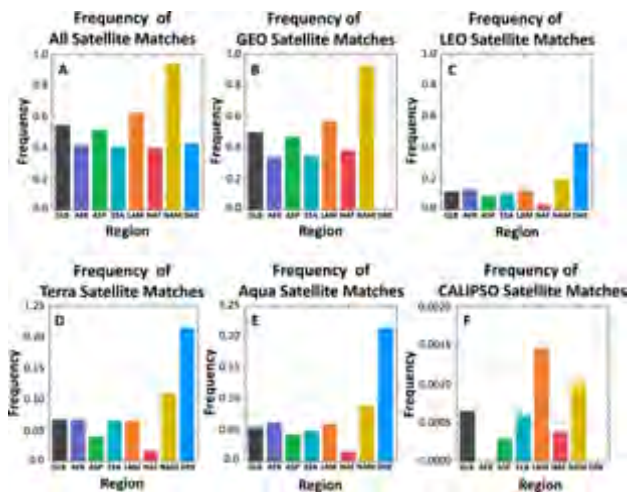
Holli Kohl/Kristen Weaver

Coordinator/Deputy Coordinator, GLOBE Observer

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Right: Frequency of ground-based visual cloud observations with collocated satellite data per geographic region.



Above: Location of observations made using the NASA GLOBE Observer mobile app from 1 April 2016 to 1 December 2019. Thirty-eight thousand participants have contributed 320,000 observations worldwide.

Two recent peer-reviewed publications have featured GLOBE citizen science (GLOBE Observer) data. In the *Bulletin of the American Meteorological Society*, “Clouds Around the World: How a Simple Citizen Science Data Challenge Became a Worldwide Success” describes the overall quantity and type of data collected during the 2018 Spring Cloud Challenge, as well as satellite matches made (left, top image), and specific areas of interest such as over-the-ocean clouds observations in the Drake Passage and Saharan dust in the Canary Islands and Greece. <https://doi.org/10.1175/BAMS-D-19-0295.1>

The second paper is a technical report appearing in *Earth and Space Science*, a publication of the American Geophysical Union, titled “GLOBE Observer Data: 2016-2019.” Focusing on the four tools in the GLOBE Observer app, it describes the method of collection and quantity of data collected via Clouds, Mosquito Habitat Mapper, Land Cover and Trees during the given time period (left, lower image), as well as data quality considerations and how to access the freely-available data. <https://doi.org/10.1029/2020EA001175>