

NASA GUAM EPSCoR

The NASA Guam Established Program to Stimulate Competitive Research (EPSCoR) is focused on research that aligns with NASA missions and technologies that are relevant to Guam and the region.



FOSTERING ISLAND INNOVATION

As one of the 28 NASA EPSCoR jurisdictions across the United States, NASA Guam EPSCoR provides resources to help build competitive research capacity and expertise in focus areas of interest to NASA. our program works with local and federal government agencies, the University of Guam, and various industries to foster innovation and research experience to benefit our local community, academia, and policymaking.



In the program's active history, funding from NASA Guam EPSCoR has supported efforts to use remote sensing and geographic information system technologies to develop tools and datasets for natural resource management and conservation; provide educational and professional opportunities to University of Guam students, faculty, and staff; and connect Guam with NASA programs and researchers to foster collaboration for future projects.



Dr. Leslie Camacho Aquino
Executive Director, NASA Guam EPSCoR
aquinol8112@triton.uog.edu



Dr. Romina King
Associate Director, NASA Guam EPSCoR
and NASA Guam Space Grant
roking@triton.uog.edu



OBJECTIVES

NASA Guam EPSCoR strives to:

Conduct research relevant to Guam and the region, in alignment with NASA missions.

Promote education and workforce development, with a focus on geographic information systems, remote sensing, and applications of unmanned aerial systems.

Utilize innovative remote sensing technologies to support terrestrial and marine resource management and studies in Guam and Micronesia.

Improve and maintain a strong cyber infrastructure backbone, and serve as a data science hub in Micronesia in order to encourage computer intensive analyses at UOG.

Foster collaboration and partnerships between Guam and NASA researchers, as well as between Guam academic institutions, government agencies, and industries.



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NASA Guam EPSCoR in action

A glimpse at the research we do in service of our island community

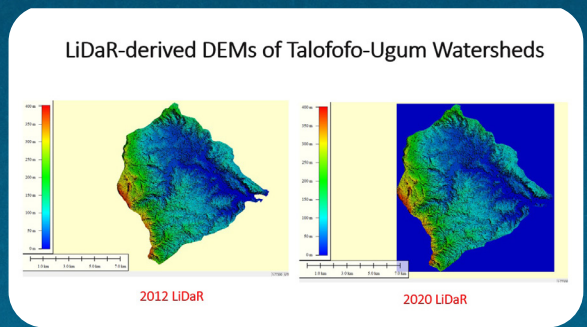
Providing a more in-depth look at the Northern Guam Lens Aquifer

Known as *Hånom Fresko yan Acho' Tåsi*, or “Freshwater and Coral,” the project will use unmanned aerial systems, remote sensing and NASA technology to closely examine the Northern Guam Lens Aquifer, which supplies 90% of the island’s drinking water, and produce critical data and tools for resource management.



Pinpointing watershed erosion in Southern Guam with remote sensing

Using LiDAR technology, NASA Guam EPSCoR produced digital elevation models of the Talofofo and Ugum watersheds to identify topsoil erosion within these spaces, as well as the rate at which soil is eroding. This resource will aid natural resource management in monitoring soil runoff in these watersheds.



Producing responsible and licensed UAV pilots with UOG Drone Corps

In partnership with NASA Guam Space Grant, NASA Guam EPSCoR co-administers the UOG Drone Corps program, which aims to produce Federal Aviation Administration-licensed drone pilots at the university level who can assist natural resource management and other industries with aerial monitoring, surveying, recording, and data gathering.



NASA Guam EPSCoR Funding for FY21-22

Grant/Program Title	Type	Fiscal Year	Total Amount
NASA EPSCoR Research Infrastructure Development Program FY2019	RID	2019-2023	\$447,218
EPSCoR 2021 Research: Hanom Fresko yan Acho' Tasi	Research	2021-2024	\$715,014
NASA Guam EPSCoR Research Infrastructure Development Program	RID	2022-2027	\$1,000,000