



MARYLANDVIEW 2022 - 2023

AmericaViewSM
Empowering Earth Observation Education
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MARYLANDVIEW 2022 - 2023 ACTIVITIES

In the summer of 2023, MarylandView hosted a 4-day, 3-night, all-inclusive, geospatial technology summer camp for Maryland high school students.

In this summer camp, students gained hands-on experience with various geospatial technologies such as digital cartography, GPS, satellite remote sensing, and aerial photography. Additionally, they delved into various campus activities that showcase the excitement of college life and foster team building. A highlight was a field trip to NASA Goddard Space Flight Center, where campers had the opportunity to tour the facilities, talk with NASA scientists, and interact with engaging exhibits.

This event was well received by both students and parents, and we achieved an overall rating of 4.3/5 based on the survey results. It not only ignited a passion for geospatial sciences in many participants, but also immersed them in the college life experience at Towson University.



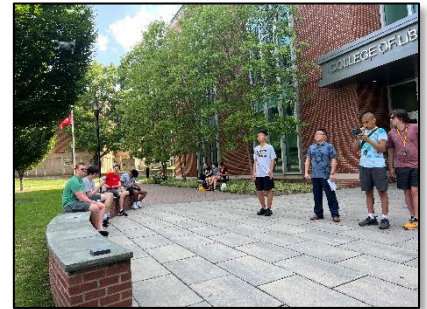
Campers visiting NASA Goddard Space Flight Center.



Campers visiting the Towson University planetarium.



Campers participating in teambuilding activities on TU campus.



Campers operating a small UAS to collect air photos.



Dr. Carter Wang providing guidance to workshop participants on UAS operations and safety protocols in the field.



MarylandView organized a UAS remote sensing workshop for Towson University students in Fall 2022 and for local businesses and agencies in Spring 2023. The workshop covered a wide range of topics, including FAA rules and regulations, UAS platforms, digital sensors, UAS operation, air photo collection, digital image processing, and theories of aerial photography. This workshop provided an immersive learning opportunity for all participants to gain hands-on experience in utilizing a small UAS to capture multispectral and thermal aerial photos for real-world applications in various industries.

MarylandView is an associate member of the AmericaView Consortium, a nationally coordinated network of academic, agency, non-profit, and industry partners and cooperators that share the vision of promoting and supporting the use of remote sensing data and technology within each state. AmericaView is funded by USGS grant agreement G18AP00077.

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BENEFITS TO MARYLAND

- The geospatial technology summer camp is MarylandView's flagship program that aims to advance geospatial education among high school students. It serves as an educational platform, nurturing the interest and skills of high school students in geospatial technologies. It also seeks to expose them to the exciting real-world applications of geospatial technologies and cultivate spatial thinking skills.
- The UAS remote sensing workshop serves as an educational outreach initiative, increasing awareness among students and community members about the potential applications and benefits of UAS remote sensing in various fields. It not only equips participants with knowledge and skills in UAS remote sensing, but also contributes to the development of a skilled workforce. Communities can benefit from the increased efficiency brought about by the application of UAS remote sensing in local industries.

Overall, the activities that MarylandView organized over the past grant year held the potential to empower students, communities, and government agencies in Maryland with advanced geospatial skills, equip participants with necessary knowledge and skills to leverage UAS technology for remote sensing applications, and benefit the local workforce and industries.



TU students visiting NASA Goddard Space Flight Center.



Dr. Wang demonstrating a UAS to campers.

MARYLANDVIEW CONSORTIUM MEMBERSHIP



WESTMINSTER
MARYLAND



Federal consortium members identified above do not receive funding from AmericaView.

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