VirginiaView
2021 - 2022

AmericaView℠
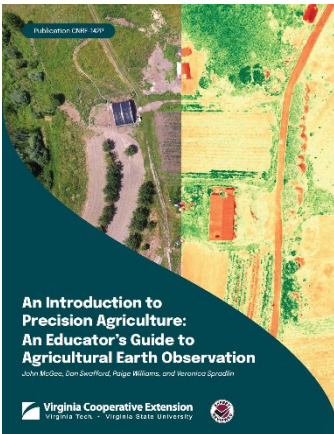Empowering Earth Observation Education
americaview.org

VirginiaView 2021 - 2022 Activities

VirginiaView, a longstanding member of the AmericaView Consortium, has contributed to a broad range of activities that bring teachers, students, and the public into contact with remote sensing imagery through educational programming and resources. Through workforce development opportunities, VirginiaView provides remote sensing education for an array of stakeholders, including students, middle school / high school educators, 2-year college and university faculty and staff, government employees, and private industry. VirginiaView provides targeted programs to advance STEM education that is vital to Virginia's New Economy.

During 2021-2022, VirginiaView continued to respond to workforce needs across the commonwealth by redesigning our popular *Mapping with Drones* workshop. Six workshops were then conducted, with ~95 professionals completing the 3-day intensive workshop.

VirginiaView also refined and redesigned two STEM-based curriculum guides to support the needs of pre-college educators. These curriculum guides include *An Introduction to Precision Agriculture* (upper left) and the *sUAS Manual Flight Exercises* manual (lower left). These resources were piloted with teachers in 2022, and will be further disseminated to educators across the state in 2023.

The Mapping with Drones workshop prepares professionals to conduct safe flight operations that support data capture.

Mapping with Drones Workshop *as* Testimonials*:*
…I attended this workshop a representative of my agency, VDACS Office of Plant Industry Services. I and several other inspectors had received training through another online program and our Part 107 license in 2019. My firm advice to my agency will be that any inspectors in the future who wish to train for and receive their Part 107 should do it through this workshop. Many of the areas of learning were covered better and yet more succinctly in this workshop; it is very helpful that I also learned ways to put our drone to use in the field.

…Without a doubt the professionalism and quality of the drone lectures were beyond expectation and delivery. This is a great set of lectures within the workshop that can really boost even the toughest learner into finding delight and satisfaction with drone piloting and mapping skill sets.

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BENEFITS TO VIRGINIA

VirginiaView supports the needs of Virginia's communities through professional development at all levels and provides many text-based and video resources for self-paced learners. These educational opportunities are designed to target the evolving needs of Virginia's workforce. They can be transformative.

- Instructional video tutorials have been viewed over 478,000 times, with over 33,500 views during GY 2021 alone.

- Video tutorials have been viewed for over 14,500 hours, with 1,300 hours watched during GY 2021 alone.

- Approximately 95 individuals received remote sensing professional development training during GY 2021. The majority of the workshop participants received their FAA Remote Pilot Certificate (RPC) and later attended other hands-on professional development drone and remote sensing workshops at Virginia Tech.
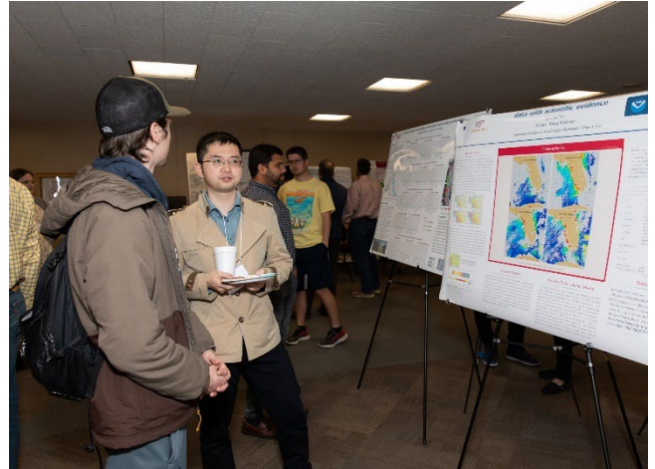
VirginiaView provides workforce development training for multiple stakeholders, and provides both research and service-learning experiences for both undergraduate and graduate students.

Book Description	Pub. Type	Year Pub.	# Copies down-loaded	# Kindle pages read
RS in ArcGIS ArcMap	eBook	2015	516	11,890
Lidar ArcGIS Desktop	eBook	2016	335	19,026
Lidar ArcGIS Desktop	print	2016	70	--
RS in ArcMap, 2nd ed	eBook	2017	228	8,765
RS in ArcMap, 2nd ed	print	2017	119	--
RS with ArcGIS Pro	eBook	2019	720	44,150
RS with ArcGIS Pro	print	2019	447	--
Lidar ArcGIS Pro	eBook	2020	208	13,700
Lidar ArcGIS Pro	print	2020	88	--
Total	**--**	**--**	**2,731**	**97,441**

- VirginiaView continues to disseminate remote sensing book (and eBook) tutorials on Amazon. These publications have been extremely popular with over 97,400 Kindle pages read, and 2,730 copies downloaded. These books are utilized by educators across the U.S. and globally. Requests have been granted to translate these materials into different languages. These remote sensing educational resources utilize Landsat imagery, since this data collection responds to real-world application needs.

VIRGINIAVIEW CONSORTIUM MEMBERSHIP

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Virginia Cooperative Extension — Virginia Tech · Virginia State University

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VIRGINIA PENINSULA COMMUNITY COLLEGE

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