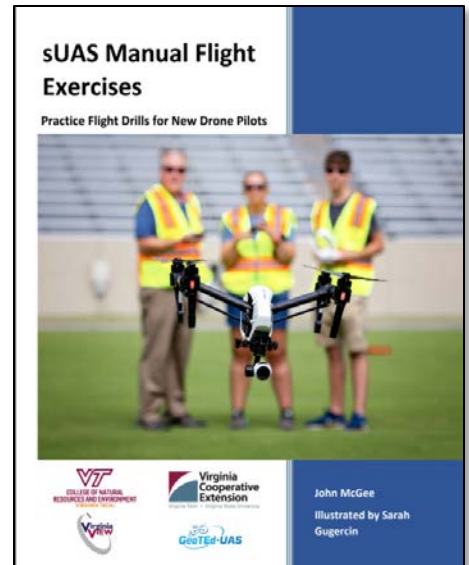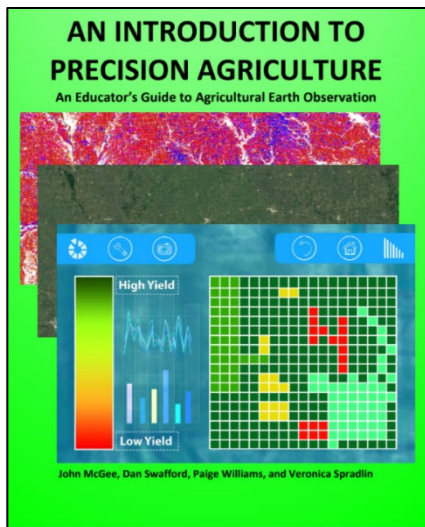## VIRGINIAVIEW 2020 - 2021 ACTIVITIES

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 learning and educational resources, and an introduction to new applications. 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 pursues programs to engage Virginia's geospatial educational pipeline.

During 2020-2021, VirginiaView continued to support educational needs of K-14 educators and 4-H, by providing teaching resources and workshops. These resources were developed in partnership with educators, and include drones as a 'hook' to further engage students in remote sensing concepts and STEM. These resources are currently being piloted through 4-H and will be rolled out to precollege classrooms.

New instruction manual provided for 4-H and middle school teachers.

Remote sensing video tutorials were published, and in-person and virtual workshops were conducted during the 2020 grant year. The workshops provided instruction on remote sensing data acquisition, work flows, drone platforms, and image processing. Our workshops have been attended by Virginia Cooperative Extension (VCE) personnel, local and state government employees, private sector employees, precollege educators, and 2-year and 4-year college faculty.

This precision agriculture instruction manual was developed for 4-H and Middle School Educators

I just wanted to thank you for encouraging me to take your UAV training…. I got my 107 permit and have been flying constantly ever since. The video work from the drone has helped produce more than 35 videos and more [are] on the way. One video won a regional SE US award and the Google Desktop Farm site won a national award. Besides the video work, it has been a helpful tool with crop production questions. It may not be the expensive infrared or LiDAR camera but, it can show a lot with a good color image. Just want to say thanks to you and all who helped with the class prepare us to get certified…!

…I have improved with each video and purchased a second drone…. I am still learning on the job every day to get better at video work. Thanks again and take care.

-M. Parrish, Virginia Cooperative Extension Unit Coordinator & Extension Agent (June 2021)

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BENEFITS TO VIRGINIA

- The USGS and other partners completed acquisition of Virginia statewide lidar data in 2018. The *Working with Lidar using ArcGIS Pro* tutorial book (from GY 2019), and the completion of the video tutorials (GY 2020) supports the needs of community stakeholders who may not have ample expertise to work with these data.

- YouTube instructional videos have been viewed over 443,000 times, with over 39,000 views during GY 2020 alone.

- Video tutorials have been viewed over 13,200 hours, with 1,400 hours watched during GY 2020 alone.

- Over 100 individuals received training during GY 2020. Participants include: precollege educators, community college faculty, 4-year university faculty (including Cooperative Extension), public sector employees, and private sector employees.

VirginiaView provides workforce development training, and facilitates hands-on experiences for 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	17,506
Lidar ArcGIS Desktop	print	2016	70	--
RS in ArcMap, 2nd ed	eBook	2017	213	7,997
RS in ArcMap, 2nd ed	print	2017	107	--
RS with ArcGIS Pro	eBook	2019	454	32,501
RS with ArcGIS Pro	print	2019	251	--
Lidar ArcGIS Pro	eBook	2020	127	9,853
Lidar ArcGIS Pro	print	2020	48	--
Total	--	--	2,121	79,747

- VirginiaView continues to disseminate remote sensing tutorials on Amazon. These publications have been hugely popular with over 79,000 pages read, and 2,000 copies downloaded. These resources have been well received both in the U.S. and abroad.

VIRGINIAVIEW CONSORTIUM MEMBERSHIP

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