



VIRGINIAVIEW 2019 - 2020

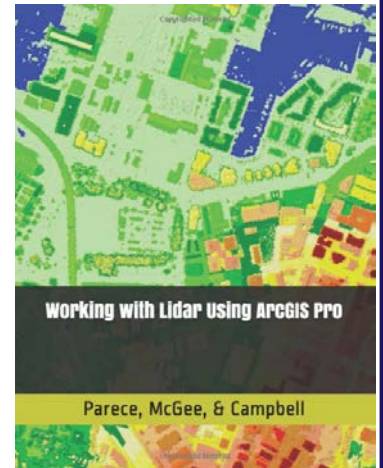


VIRGINIAVIEW 2019 - 2020 ACTIVITIES

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 support Virginia’s geospatial educational pipeline.

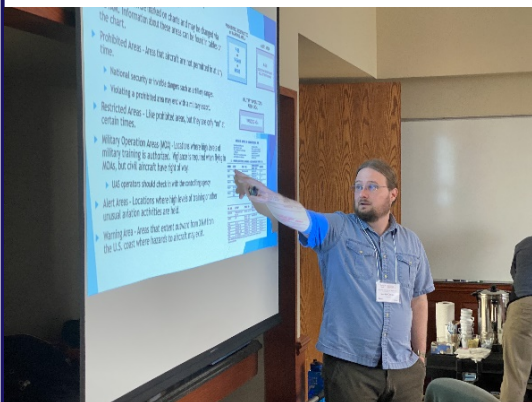
During 2019-2020, VirginiaView continued to support educational needs of Virginia’s communities, and published a new tutorial textbook: *Working with Lidar Using ArcGIS Pro*. This tutorial supports needs of educators and professionals in Virginia, especially those who are learning remotely. The publishing of VAView’s lidar book coincided with the acquisition of ‘wall to wall’ lidar data across Virginia which was completed in 2018.

All of Virginia’s lidar data conform to USGS 3DEP standards. Our lidar book tutorial augments other educational resources, including *Remote Sensing with ArcGIS Pro*. VirginiaView’s tutorials are available through Amazon as free ebooks (through Kindle Unlimited), or for \$3.99. Hardcopy editions are available as well. Many of these tutorials were converted to video and published on YouTube for visual learners and are available at no cost.



New eBook available through Kindle

Remote Sensing video tutorials were published, and in-person and virtual workshops were conducted during the 2019-2020 grant year. The workshops provided instruction on remote sensing data acquisition, work flows, UAV’s, and image processing options. 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.



Both face to face and virtual instruction were conducted for stakeholders during GY 2019

This was by far one of the best training programs I have attended in my 30+ years of Extension work. The instructors were extremely well prepared and knowledgeable.
-VCE Agricultural Extension Agent

This workshop was of tremendous value. The content was all-encompassing and took me as a student from the understanding of bare basics to feeling confident.... I also feel confident in my ability to explain a more simple version of all I learned to any 4-H youth that I may have the opportunity to program for. Daniel Cross had an obvious interest in, and knowledge base for, the topic and was well-equipped (along with John McGee) to answer any questions among the group and direct us to resources that we could consult for our further specific explorations. I'm especially appreciative of the efforts made to provide this workshop online during COVID-19 isolation.

-VCE 4-H Agent

VirginiaView is a 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 VIRGINIAVIEW

- The USGS and other partners completed acquisition of Virginia statewide lidar data in 2018. The *Working with Lidar using ArcGIS Pro* tutorial book supports the needs of local communities and stakeholders, who may not have ample expertise to work with these data.
- 15 new online lidar video tutorials were published to the VAView YouTube Channel during GY 2019.
- sUAS flight planning and safety video tutorials were published during GY 2019.
- YouTube instructional videos have been viewed over 406,000 times, with 56,000 views during GY 2019 alone.
- Video tutorials have been viewed for over 12,000 hours, with 1,800 hours watched during GY 2019-2020.



In person workshop (January 2020).



Workshops included classroom learning and hands-on demonstrations in the drone cage.

Remote Sensing Book & eBook Metrics

Book Description	Pub. Type	Year Pub.	# Copies downloaded	# Kindle pages read
RS in ArcGIS ArcMap	eBook	2015	516	11,890
Lidar ArcGIS Desktop	eBook	2016	317	16,524
Lidar ArcGIS Desktop	print	2016	68	N/A
RS in ArcMap, 2nd ed	eBook	2017	187	6,918
RS in ArcMap, 2nd ed	print	2017	95	N/A
RS with ArcGIS Pro	eBook	2019	252	18,646
RS with ArcGIS Pro	print	2019	118	N/A
Lidar ArcGIS Pro	eBook	2020	48	5,200
Lidar ArcGIS Pro	print	2020	16	N/A
Total	--	--	1,617	59,178

- We anticipate that interest in ebook and video tutorials will continue, with increased numbers of remote learners searching for online and self-paced instruction due to COVID.

VIRGINIAVIEW CONSORTIUM MEMBERSHIP



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<http://www.virginiaview.net>



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