



ALABAMAVIEW 2021 - 2022

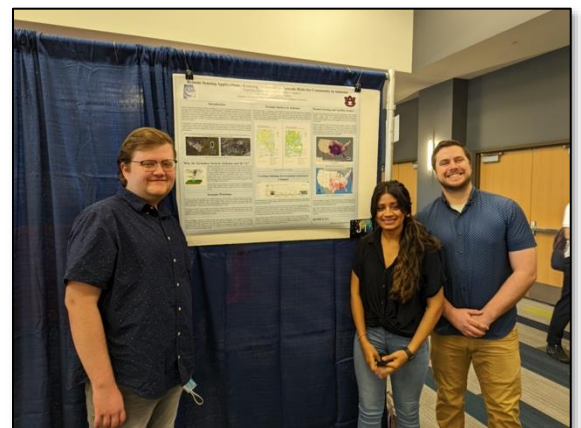
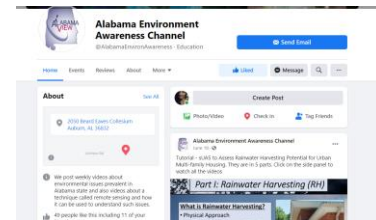
AmericaViewSM
Empowering Earth Observation Education
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ALABAMAVIEW 2021 - 2022 ACTIVITIES

- The major activity for 2021-2022 was the continued development of Alabama Environmental Awareness YouTube channel (<https://www.youtube.com/channel/UC43YJ2HG3fIUmHGvp5Ldu1Q>). This program promotes the awareness and application of Remote Sensing in the state of Alabama. This reporting period our students produced the following videos:
 - Alabama Wetland Protection
 - Water Quality PSA
 - Tornado Mapping in Alabama
 - Urban Expansion - Parts 1 and 2
- The YouTube channel, Facebook group and Instagram was shared with groups such as:
 - the Greater Birmingham Alliance to Stop Pollution (GASP) - <https://gaspgroup.org/>
 - Little USA Solar Farm - <https://www.littleusa.solar/>
 - RePicture - <https://www.repicture.com/students>
 - Alabama Interfaith Power and Light: <https://www.alabamaipl.org/>
 - Southeast Climate and Energy Network: <https://www.scen-us.org/>
- One of the most important parts of this project has involves the training of graduate and undergraduate students in utilizing RS methods for environmental applications. The Directors of AlabamaView meet with students on a weekly basis to discuss ideas and work progress. Students we have trained this year include:
 - Nazifa Tasneem
 - Pooja Patel
 - Austin Barnhard
 - Blake Phillips
 - Byrd Alexandra

A facebook page was maintained to promote the work, activities, and videos created for Alabamaview. All the videos are promoted through this page:

https://www.facebook.com/AlabamaEnvironmentAwareness/?view_public_for=100846665005207 to reach out to many. The page is also shared with Alabama citizens so they know about Alabama environment and how remote sensing can be used to assess and evaluate various aspects of Alabama's environment.



Pooja Patel presenting at undergraduate symposium

AlabamaView 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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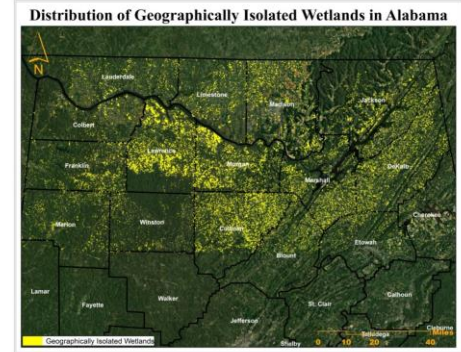
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BENEFITS TO ALABAMA

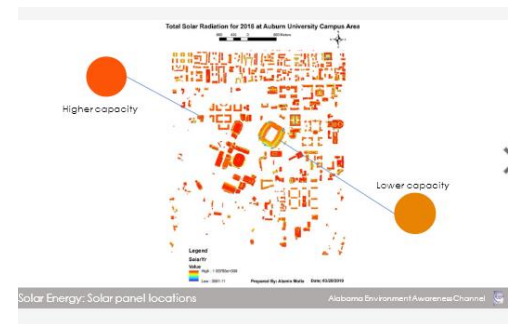
The videos are created to raise awareness among Alabama citizens about the environment and how RS can be used to access, evaluate, and communicate such information. Research using Auburn library resources, google scholar and google search were conducted to find topics and relevant information. Scripts were created and needed RS analysis were conducted. Required logos and graphs were created using Adobe illustrator and PowerPoint. After the audio was recorded for the script, the video was stitched together using Premiere Pro. A few examples of videos include:

The **Alabama Wetland Protection** video provides an overview of how wetlands provide ecosystem services to the state of Alabama and how using Remote Sensing and USGS NAIP imagery can be used as an effective method of mapping wetlands. Being able to monitor available wetlands and water resources helps with resource management practices for a sustainable future.

Another video highlights the use of Remote sensing to **Estimate Potential Solar Power**. Alabama has a huge potential for solar power generation, but Alabama's available policies and programs are not favorable to utilize this potentiality of solar power. This video created – Solar power potential in Alabama - can help the Alabama resource managers to understand and then use it to promote solar power generation to the citizens and the policy maker.



Geographically Isolated Wetlands mapped with Remote Sensing and USGS NAIP Imagery



Solar Power Potential

ALABAMAVIEW CONSORTIUM MEMBERSHIP



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