







Chesapeake Land Use/Land Cover Data Project Update

Katie Walker | 28 June 2023 | LUWG Meeting



Welcome, Steven!

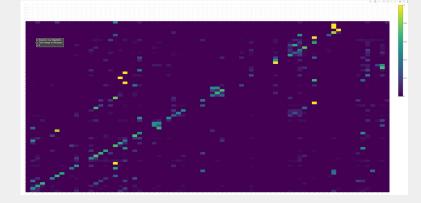
- 15 years at University of Maryland Center for Environmental Science, at the Appalachian Laboratory and Integration and Application Network
- Foundational background in computer science and earth science from Frostburg State University
- Experienced in the application and integration of computer and ecological sciences to more efficiently model and represent natural phenomena as digital data structures

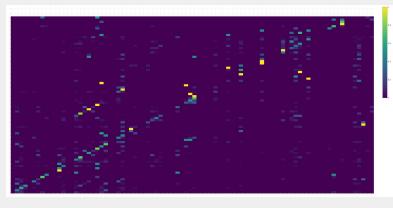




Accuracy Assessment

- Initial pilot to test improved stratified method design (stratified by class and jurisdiction)
 - To reach desired confidence, would have needed 20k+ points to be assessed
 - It took ~80-100 hours for an analyst to assess
 2k points
 - Exaggerated by the loading time needed per point for NAIP imagery
- Moving forward:
 - Filter initial point layer to reduce points, matching the needs for an assessment only stratified by class (~7k points needed)
 - Dedicate resources to complete assessment for 2022 edition
 - Identify time saving avenues for 2024 edition assessment









- finalizing ancillary data collection
- iterative testing on LC in DE/MD
- integration of new water/wetlands module
- Review of classes and definitions

Stakeholder Review

- CC will make preliminary data available to LUWG and local stakeholders for review
- Jurisdictions with 2021 imagery may review before juridictions with 2022 imagery
- 6-week time window for every jurisdiction

2024 edition data release

- ScienceBase publication
- Published manuscripts
- Hosted web applications for data download
- Lessons Learned Report



Minor Parameter Adjustments

- No further edits to list of classes or definitions
- Iterative review of test counties to adjust parameters while LC is being finished
- Will provide more detailed timeline for jurisdictional review based on LC production estimates

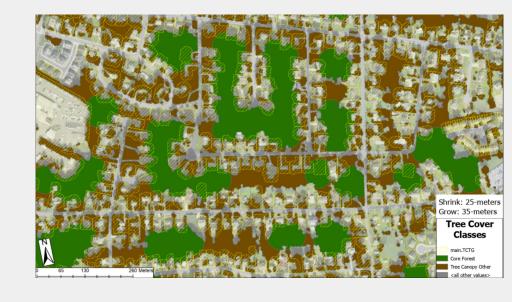
Final Production Runs

Incorporation of local feedback and final model revisions will be incorporated into a final production run. This data will be assessed for accuracy and prepped with metadata for final release.



Forest and TC Module Considerations

- Exclude TCTG and TC segments that do not meet forest width parameters when dissolving TC segments for forest call
- If a patch is too small to be forest, but is surrounded by regenerative successional lands, it is going to be considered forest to better align with FIA
- For large parcels, only buffer from the structures when deciding the TCTG footprint, whereas small parcels are buffered starting from the turf that surrounds structures





Local Data Ask

Local Data Still Needed:

VA: 43 counties/independent cities

PA: 26 counties

NY: 17 counties

WV: 11 counties

MD: 4 counties

DC



All jurisdictions have given timber harvest data!

