

State of Oregon

GIS PROGRAM LEADERS (GPL) COMMITTEE

Date: Tuesday, August 8, 2023

Time: 1:30-3:30 pm

Roll Call and Introductions

GPL Attendees:

DAS/GEO: Rachel Smith, Melissa Foltz, Tom Elder

Business Oregon:

DHS: Aaron Heriford

DEQ: Don Pettit

DLCD: Tonya Haddad

DOGAMI

DOR: Thom York

DSL:

Esri: Lacey Summers, Chris Marsh

INR: Myrica McCune

ODA: Dianna Walker, Jenn Ambrose

DEQ: Malavika Bishop

ODF: Arthur Rodriguez

ODFW: Jon Bowers

LPRO: Ariel Low

ODOT: Phil Smith

OEM: Daniel Stoelb

OHA: Eric Main

OMD:

OPRD: Brady Callahan

OSFM: Morgan Kee

OSMB: Joe Severson

OWEB: Paula Wills

OWRD: Bob Harmon, Tad Larsen

Not Present:

Announcements:

- 2022 imagery service now available
 - o was supposed to have 4 bands, but originally hosted with just 3. Replacing that with all 4 bands in the next couple days.
 - o Potential issue: shadows in Western Oregon, not being corrected before release
- COGNA Conference September 12-16, 2023
 - o <https://cognaconference2022.regfox.com/council-of-geographic-names-authorities-cogna-annual-conference-or-2023>
 - o PSU
 - o Geographic Names Board
 - o Oregon Names Board

- Field Maps designer training next week: Aug 17
 - o Registration and more information: <https://www.esri.com/training/catalog/64936bcda56e8801a001aee0/get-started-with-field-maps-designer/>
- Esri Enterprise Agreement up for renewal in July 2024. Lacey looking to meet with programs to talk about products and services that have worked, and near future investments. Please fill out survey to setup meetings with Esri.
- Survey123 Beta Testing Session to test Beta version of next Survey123 release on August 15. Register here: <https://survey123.arcgis.com/share/72d5c0a746374b60baaee5930f05a066>
- GIS Day, 2023
 - o OGIC outreach committee discussing ideas
 - o DAS GEO (Rachel) looking for any interest from agencies to participate in an event
 - o Interested: Daniel Stoelb (OEM), Aerial Low (LPRO), Joe Severson (OSMB) interested in learning more

GEO/OGIC Update

Rachel Smith, GEO

- Imagery services added to the OSIP? Website, working to add to GeoHub soon
- Participating agencies in the Esri Enterprise Agreement are required to submit a True-Up report by the end of August.
 - o Now is a good time to reach out to Rachel if anyone needs support in developing the report..
 - o ArcGIS Pro and Desktop licenses: 1 license allows for the same person to using ArcGIS Pro and ArcGIS Desktop. All reported as "Desktop licenses". This includes either a concurrent license or a named user license for Pro.
- OGIC July agenda was very full:
 - o New communications plan
 - o New procedures for implementing data sharing plan
 - o Approved a new FIT lead (Land Use/Land Cover, Sarah Marvin)
 - o Approved a new TAC chair (Tom Elder)
 - o Policy Option Packages for 2025 biennium

Framework Program Update

Melissa Foltz, GEO

- Working with OGIC to approve full Framework Inventory
- Working with TAC to identify some details around inventory elements
- Fall Framework Forum planned for October in Salem (Chemeketa Wine Study)

State Geocoder Update

Tom Elder, GEO

- New version of the State Geocoder (Oregon Address) is now in production and available: <https://geohub.oregon.gov/pages/resources>
- Test version is no longer available

- Multi-roll locator: Point address and Street Address
- Old geocoder available until early 2024, but won't be updated (was last updated in 2019). Announcement will be made once the old geocoder is deprecated.

Oregon's Wildfire Risk Map: A Case Study on the Challenges of Adopting Policies for Climate Adaptation

Chris Dunn, OSU

- January 30, 2019 Governor Brown signed executive order creating the Governor's Council on Wildfire Response.
- September 2020: Labor Day Fires impacts a large proportion of the state.
- June 2021: SB762 is passed with an aggressive timeline to come up with rules around mapping Wildland Urban Interface (WUI) and Hazards
 - o Map the wildland-urban interface
 - o Map wildfire risk
 - o Map social vulnerability
 - o Provide public access to the data on the Wildfire Risk Explorer (created and maintained by INR)
- Requirements for statewide map of wildfire risk
 - o OSU develops the map
 - o Oregon Department of Forestry works with OSU in development and maintenance of map
 - o Designates Oregon Wildfire Risk Explorer as the official map
 - o Requires final map to inform policy actions and programs
 - o 60 day appeals process (not used as map was pulled)
- Three questions for the map to answer:
 - o Should a new structure or structure undergoing significant remodeling that requires structural building permits be build to a "hardened" fire standard within Oregon's wildland-urban interface?
 - o Should new or existing structures have defensible space to protect fire responders and owners, while also reducing asset damage from wildfires, within Oregon's wildland-urban interface?
 - o What recommendations would the Department of Land Conservation and Development (DLCD) make regarding land use and zoning based on the distribution of wildfire exposure across all of Oregon?
- Mapping criteria:
 - o Weather, Climate, Topography Vegetation
- Other agency considerations:
 - o Defensible space (irrigated lawns), Home hardening, Firewise community status, Local fire service/ODF response capacity
- Rulemaking Process: Public meetings; Use of objective, scientific, quantifiable, data in the recommendation and decision-making process; final rule adoption in June 2022; Map released June 30, 2022
- Political processes continued throughout development, with misinformation being spread, seeding doubt with the public
- Oregon's adopted WUI Definition: "The geographical area where structures and other human development meets or intermingles with wildland or vegetative fuels."

- Would need to develop definitions for the terms within the WUI definition (such as meadows, fuels, etc).
- Developed workflows:
 - to identify properties inclusion in a WUI, based on structures, Urban Growth Boundary location, amount of vegetative or wildland fuels, etc.
 - Apply risk categories for a property requesting OSFM and/or FEMA resources for mitigation
- State Building Footprints of Oregon used for structure locations
- Rules process for applying data in developing WUI map:
 - Remove building footprints 400 sq ft or less
 - One structure per tax lot (didn't want a tax lot with multiple structures (i.e. farms, ranches, etc) identified as WUI when it is isolated from others)
 - Identify other human development (essential facilities that support community functions, public communication, energy and transportation in excess of 400 square feet)
 - Proximity of structure to combustible vegetation (all vegetation across the state)
- Climate and Fire History Calibration
 - Look at area of state with similar fire climate/occurrence histories
 - Run large fire simulators to get probability of a place experience a wildfire
 - Burn Probability and Fire Severity calculated in statewide layers
- Final calculation
 - Burn Probability X Susceptibility = Expected Net Value Change
 - Results binned into 5 categories as required by legislation
- Risk to Potential Structures mapped across the state and within WUIs
- Social Vulnerability Index mapped across the state
- When map was released there was a lot of public outcry
- August 5, 2022 map was pulled
- Several recent fires have occurred within the higher hazard areas of the map from 2022
- New bill (Senate Bill 80) restricts Insurance companies from using future wildfire risk maps
- Questions
 - Manual vs automated process and update frequency discussion around difficulties with keeping data up to date
 - Colorado uses USFS wildfire hazard potential (WHP) at a block level, and wondering what are some of the problems with using that for social vulnerability?
 - The OSU process used more data than used in the WHP to identify potential hazards, which resulted in showing socially vulnerable communities are more exposed, where as the WHP showed the opposite. Not sure why.
 - Once we come to an agreement on indicators and weighting schemes for social vulnerability, how hard will it be to incorporate them into the wildfire risk hazard map?
 - Should be able to apply this.
 - Do you have any concerns about the coarseness of the census tracts?
 - Yes, a lot of concerns. You'll miss the details, and also can be impacted by what region you are looking at in Oregon (differences between Eastern Oregon and Willamette Valley).
 - Two datasets that might be beneficial for further analysis: 1) mapping mitigation properties, could you follow a process similar to how FEMA updates flood mitigation maps? 2) Mapping fire evacuation histories? Would this show more information than you get from historic fire perimeters, showing a potential risk to homes?

- Can you talk about adjustments being made from community feedback?
 - Adjusting parameters within the burn probability and fire estimates that improved results in a couple specific areas. More reflective of the reality in those landscapes.
 - Ongoing debate around irrigated agriculture and how susceptible it is to burning. Becoming a political question as to how to apply it.
- Did you factor in land use zoning or comprehensive plans?
 - No
- What are the next steps of the project, and any timeline for when these may be released?
 - Senate Bill 80 change the risk map to a hazard map, which doesn't change the map much, but clarifies it's intent. 8 meetings through September to different geographic groups to get a pulse check and see where it is going in the future. Meeting with county staff in particular, this is required in the legislation. Building a bigger plan from these meetings. Need for more outreach and information to be provided to the public. Anticipate more meetings and outreach through December. Would need to reopen the rules process to change details around the number of classes, and language, etc. This could also take multiple months. Release draft map in Spring (March/April) and then hope to finalize map before fire season 2024.
- Is there one site that provides an overview of everything involved in developing the map?
 - This is recognized as a need, but currently not available.
- Are there lessons learned about hosting a map like this? How can we help a map serve as a communication piece?
 - Servers crashed on the Wildfire Risk Explorer multiple times. So definitely need to take that into account when releasing a product that may be controversial or highly contested. For the communication piece, members of the public got very focused on the end interpretation, or how it would impact them specifically. But that is really hard to easily present in a single map.
- Discussion in the chat around where the Fire Hazards and WUI maps should be in the Framework Program. It currently resides in Admin Boundaries and Hazards.