IPA Student GIS Training

4/26/2021

12:15 p.m. – 1:15 p.m.

Location Zoom Link: <https://udel.zoom.us/j/99538590216>

Presenter: Nicole Minni of UD IPA (nminni@udel.edu)

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| 12:15 p.m. – 1:15 p.m. | Hands-OnSigning into UD’s ArcGIS Online Account<https://udel.maps.arcgis.com/home/index.html> **Now we are going to create a map and bring in data, save that map and then create a mapping application.****Adding Data****Map 1: Delaware’s Parks*** In ArcGIS Online click Add and then Search for Layers
* Type FirstMap (all the data that is hosted in FirstMap services will appear)
* Find Delaware Park FacilitiesClick the circle with plus button on the bottom right. (this adds the data to your map)
* Now add Delaware Public Protected Lands
* Next we will add the 2017 Delaware Imagery layer, but this time we will go about it a different way. Open another tab on your web browser and go to:
* https://firstmap.gis.delaware.gov/index.shtml?dc=data

Click on the link that reads FirstMap 2.0 Image Rest Services. A new tab will open. Click on DE\_Imagery\_SP. Now you will see all the Imagery that is available for Delaware. Click on DE\_Imagery\_SP/DE\_Imagery\_2017. <https://imagery.firstmap.delaware.gov/imagery/rest/services/DE_Imagery_SP/DE_Imagery_2017/ImageServer>--> Copy this link (cntrl C)Go to your ArcGIS Online MapClick on Add 🡪 Then click on Add Layer from WebWhere it says URL:Paste the link here (cntrl V) 🡪 Then click on ADD LAYERWhen we are done adding layers, click the save as icon (notice just the icon appears when the window is small), when the window is expanded you will see the words of what the icons mean. Save your map and title it “Delaware Parkland Activities.”**Map 2 – Looking at Census Data and the CDC’s Social Vulnerability Index**Click on New MAP 🡪 Create New MapNow we are going to add some census information. Click on Add 🡪 Search for Layers and type in CDC’s Social Vulnerability Index. Add it to your map.Next add these three datasets:* Household Demographics in the 2010 Census – Block Group
* U.S. Census Blocks
* Household Demographics in the 2010 Census – Census Tract

Save your map and provide and title and description. I titled mine Social Vulnerability.**Map 3 – Creating a map from an excel table**Our next map will be a simple map, but we will add data from an excel table. In this excel table is a column that has a url link to photos that I have placed in a Flickr account. You can upload photos into your ArcGIS Online account and use that URL now within your excel table. Also, high resolution jpegs work best for story maps.**Map 4 – Looking at Living Atlas**Now we are ready to create our fourth map. Once again click on New Map 🡪 Create New Map. Click on Add and Browse Living Atlas layers.Let’s add these two layers:* USA NLCD Land Cover
* Now Add FirstMap boundaries
	+ Turn off (uncheck) Delaware Boundaries - Boundary Monument, Communities, Municipal Annexations *(see screenshot images on next page)*

* + Now we are going to change the Municipal Boundaries so they are just outlined and not filled in. Click on the Change Style icon under the words Municipal Boundaries.
	+

Save your map and title it Land Cover in Delaware. **FINAL MAP PRODUCT**Now we are going to bring all these maps together into one story map template called Cascade.Let’s go back to Content to begin and open up our first map we made. To do this click on Home dropdown and then click on Content in the listing. Now you can see all the hard work and maps you have created.Click on Delaware Parkland Activities. Open your map in ArcGIS Online and then click on Share 🡪 Create a New Web APP 🡪 Build a Story Map 🡪 Story Map Cascade. Click this, then click Create Web App.Title your map. Some tags you could include are: community, land use, parks, society, etc. I will walk you through how to build our mapping application. |  |
| 1:05pm – 1:15pm | **Discussion / Wrap up** |  |

Resources:

University of Delaware

* GIS @ UD - <https://sites.udel.edu/it-rci/gis/gis-training/>
* <https://library.udel.edu/databases/policymap/>
* <https://www.policymap.com/customer-story/university-of-delaware/>
* Complete Communities Map Collection - <http://udel.maps.arcgis.com/apps/MapAndAppGallery/index.html?appid=c72d06880390498b9193b12617943592>

ESRI

* Esri - Training opportunities - <https://learn.arcgis.com/en/paths/getting-started-with-maps-and-data-in-arcgis-online/>
* Start with a great story - <https://www.esri.com/en-us/arcgis/products/arcgis-storymaps/resources>
* Story Map Gallery [- http://storymaps-classic.arcgis.com/en/gallery/#s=0](file:///C%3A%5CUsers%5CNicole%5CDocuments%5CPresentations%5CMunicipal%20Clerks2020%5C-%20http%3A%5Cstorymaps-classic.arcgis.com%5Cen%5Cgallery%5C%23s%3D0)
* Story Map Tutorials
<https://storymaps.arcgis.com/en/app-list/>
<https://storymaps-classic.arcgis.com/en/app-list/>
* Creating a free ESRI ArcGIS Online account - [www.arcgis.com/home/index.html](http://www.arcgis.com/home/index.html)

<https://www.esri.com/en-us/arcgis/products/create-account>

Delaware DGDC - <https://stateplanning.delaware.gov/dgdc/>

Delaware FirstMap:

* FirstMap State of Delaware Gallery - <https://delaware.maps.arcgis.com/home/gallery.html>
* <https://firstmap.delaware.gov/pdfs/public/FirstMapAGOL.pdf>
* http://firstmap.delaware.gov/index.shtml?dc=data
* FM 2.0 serviceshttps://enterprise.firstmap.delaware.gov/arcgis/rest/services
* FM 2.0 imageryhttps://imagery.firstmap.delaware.gov/imagery/rest/services

New Castle County GIS - <https://nccde.maps.arcgis.com/home/index.html>

Kent County GIS - <http://www.co.kent.de.us/gis-division/public-mapping-web.aspx>

Sussex County GIS - <https://www.sussexcountyde.gov/sussex-county-mapping-applications>

Maryland’s Mapping & Geospatial Portal MD iMAP

* <https://imap.maryland.gov/Pages/imap-subscribe-signup.aspx>
* <https://imap.maryland.gov/Pages/default.aspx>

**Open Data Portal**

* Dashboard Gallery - <https://imap.maryland.gov/Pages/dashboard-gallery.aspx>

**Training**

* Training - <https://imap.maryland.gov/Pages/training.aspx>

Policy Map - <https://www.policymap.com/maps>

The Living Atlas - <https://livingatlas.arcgis.com/en/>

Census - <https://covid19.census.gov/>