GIS in Earth and Environmental Science

ArcGIS Online

Introduction
ArcGIS online is a collaborative and cloud-based GIS environment that allows you to use, create, and share, maps, scenes, apps, layers, analytics, and data. ArcGIS Online is an integral part of the ArcGIS system and you can use it to extend the capabilities beyond those of ArcGIS Desktop. If you have a free ESRI account, you can create, store, and manage geospatial data, layers, and maps while sharing them with others. You also have access to data shared by ESRI and GIS users from across the globe. Our purpose is to learn about this cloud-based GIS software and how it fits in to the ArcGIS ecosystem.

Objective and Methods
The objective of this lab is for you to answer questions that will step you through learning about the various components of ArcGIS Online. The methods include reading, browsing, and taking notes about the ArcGIS feature and some of its pitfalls. Use the links below to learn about the capabilities of ArcGIS Online.

Question 1: What is ArcGIS Online
https://doc.arcgis.com/en/arcgis-online/reference/what-is-agol.htm

Question 2: What is a web map?
https://doc.arcgis.com/en/arcgis-online/reference/what-is-web-map.htm

Question 3: What types of stories can you tell with maps and apps?

> Amanda Huber is a recent graduate from the University of Minnesota at Duluth. Amanda used ArcGIS Online to build a map application that tells her story and serves as a portfolio of her work. See what she's done here: https://arcg.is/088yfC0

> At this stage in the course, you have the skills to produce the type and quality of maps that Amanda showcases at the end of her online portfolio

> Compare and contrast at least 4 types of stories that you can tell with an online map. Collect your information by browsing through the Overview Gallery, and FAQ sections of each map app type. https://storymaps.arcgis.com/en/app-list/

Question 4: What can be added to ArcGIS Online?
https://doc.arcgis.com/en/arcgis-online/reference/supported-items.htm

> Question 4a: Make a table that lists only the item types that you can upload to ArcGIS Online and can be displayed in Map Viewer Mode or in Web Apps.

> Question 4b: What are the feature count and file size limits for uploading shapefiles in Map Viewer mode?

Question 5: What are the best practices for sharing data?

Question 6: Browse the ESRI Maps, choose one, and write a 200 word summary of the story.
https://storymaps.arcgis.com/en/gallery/#s=0

Deliverables

Complete a well-written, complete, and concise response to the questions above. Include your name and date in the top left corner, include page numbers, and staple pages together. You will find the answers to the questions in the resources I gave you. Reorganize and synthesize the information and convey it in your own words. Copy and pasted answers will receive zero credit.

At the end of your response, identify anything interesting you learned and thoughts you have.

This and future assignments should be:
- Typed and printed on 8.5'' by 11'' paper.
- All margins to set to 1.0 inches.
- Font face set to Candara, Book Antiqua, Bookman Old Style, Georgia, or Times New Roman
- 11 point font size
- 1.5 line spacing
- Page numbers of every page (bottom center)
- Major section headings should be bolded and left-justified
- All figures and tables must be inline and conform to the margin requirements above
- Include figures and tables in the same order you refer to them