

Day 08 - Activities: Image Analysis and Remote Sensing

Lecture (in class):

- Lecture 8: Image Analysis and Remote Sensing (PDF)
- Demonstration:
 - [Living Atlas of the World](#)
 - [View the world with Landsat imagery](#)

Lab (in class):

- ArcGIS Pro Tutorial
 - Finish Tutorial 5a: [Make a Layout](#)
 - Finish Tutorial 7a: [Map Hurricane Storm Surge](#)
 - Instructions: [English](#) / [Chinese](#)
 - Tutorial 8: [Classify Land Cover to Measure Shrinking Lakes](#)
 - Optional Tutorials:
 - Mapping: [Cartographic Creations in ArcGIS Pro](#)
 - Image Analysis: [Assess Burn Scars with Satellite Imagery](#)

Reading (Homework):

- [ArcGIS Imagery Book](#):
 - Chapter 02: The Nature of Remote Sensing ([English](#) / [Chinese](#))
 - Chapter 03: Defining Imagery ([English](#) / [Chinese](#))
 - Chapter 04: Perceiving The Imperceptible ([English](#) / [Chinese](#))
- ArcGIS Pro Documentation:
 - [Overview of image classification](#)
 - [Generalization of classified raster imagery](#)
 - [Smoothing zone edges with Boundary Clean and Majority Filter](#)
- GIS - An Introduction (McHaffie and Hwang, 2019)
 - Chapter 9: Introduction to Remote Sensing and GIS (pp 239-260)

Homework:

- Complete Tutorial 7a or 8 using one of the following softwares:
 - ArcMap or ArcGIS Online or QGIS
- Story Maps - **Finish**: [Create a Story Map Cascade](#) (San Diego):
- Finish: [Getting to Know the New Story Maps](#)