

Day 07 - Activities: Rasters and Terrain Analysis

Lecture (in class):

- [Lecture 7: Rasters and Terrain Analysis](#) (PDF)
- Demonstration:
 - Video: [Raster Calculator](#)
 - Digital Elevation Model: [La Jolla Marine Protected Areas](#) (MPAs)

Lab (in class):

- ArcGIS Pro Tutorials
 - Tutorial 7a: [Map Hurricane Storm Surge](#)
 - Instructions: [English](#) / [Chinese](#)
 - Tutorial 7b: [Visualize Shrinking Malaria Rates in Africa](#)

Reading (Homework):

- ArcGIS Book - Chapter 04: Great Maps Need Great Data
 - [English version](#)
 - [Chinese version](#)
- ArcGIS Pro Documentation:
 - [What is the ArcGIS Spatial Analyst extension?](#)
 - [Essential Spatial Analyst terms](#)
 - [Data formats supported by Spatial Analyst](#)
 - [Analysis environments and Spatial Analyst](#)
 - [A quick tour of using Map Algebra](#)
- Essentials of GIS (Campbell, 2011)
 - [Chapter 8 - Geospatial Analysis II: Raster Operations](#) (pp 167-184)

Homework:

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