ARCGIS DEM assignment:

- 1) Apply for a MyOpenTopo account on opentopography
- 2) Download DEMS for area of interest from OpenTopography
- 3) In ArcMap:
 - 1) Build a project with DEM, hillshade, and slope maps
 - 2) Draw topographic profiles across the map
- 4) Download **ALOS World 3D 30m** and SRTM for the area and compute their difference





Selection









http://www.dmap.co.uk/utmworld.htm







Projection to	o UTM	 □ S Data Mar ① S Archi ① S Attac ① S Data ② Data ② Data ② Doma ③ Featu ③ Featu ③ Featu ④ Fields ④ Fields 	agement Tools ving hments Comparison buted Geodatabase ains re Class res eodatabase
Project Raster		⊕ 💽 💽 💀 Gene	ral ralization
Input Raster D:\ramon\output_srtm.tif Input Coordinate System (optional) GCS_WGS_1984 Output Raster Dataset D:\ramon\output_srtmUTM.tif Output Coordinate System WGS_1984_UTM_Zone_32N Geographic Transformation (optional)	OK Cancel Environments Sho	Geod Geod	atabase Administration netric Network es lataset s and Table Views lige s ctions and Transformations aster Flip Mirror Project Raster Register Raster Register Raster Rescale Rotate Shift Warp Warp From File atch Project
StRATEGy	Advancing understanding of geomorpholog emphasizing high resolution June 12-15, 2017	y with topographic analysis topography	onvert Coordinate Notation

INTERNATIONAL RESEARCH TRAINING GR

etsitar 1909adam

Turn the extension on and then add the 3D analyst toolbar

Extensions 🛛 🖾
Select the extensions you want to use.
3D Analyst ArcScan Geostatistical Analyst Network Analyst Publisher Schematics Y Spatial Analyst Tracking Analyst
Description:
3D Analyst 10.5.0 Copyright ©1999-2016 Esri Inc. All Rights Reserved
Provides tools for surface modeling and 3D visualization.
Close



Advancing understanding of geomorphology with topographic analysis emphasizing high resolution topography June 12-15, 2017



Topographic Profile

3D Analyst 🕶 🐼 output_srtmUTM.tif 🛛 💌 🎊 🗞 🦛 🍰 🖾 🖾 🖕 🥘 🧐 🛫











3.67

UNAVCO

SetNull("output_alosUTM.t	if" <= -9999,"output_alosUTM.tif")	
Output raster		
D:\ramon\output_alosUTM	nullv3.tif	
		Ŧ
	OK Cancel Environments	Show Help >>
StRATEGy	Advancing understanding of geomorphology with topographic analysis emphasizing high resolution topography	

June 12-15, 2017

Do the difference again and you will see the SRTM - ALOS





Advancing understanding of geomorphology with topographic analysis emphasizing high resolution topography June 12-15, 2017

