Advanced Structural Geology, Fall 2022

Field trips follow up and planning

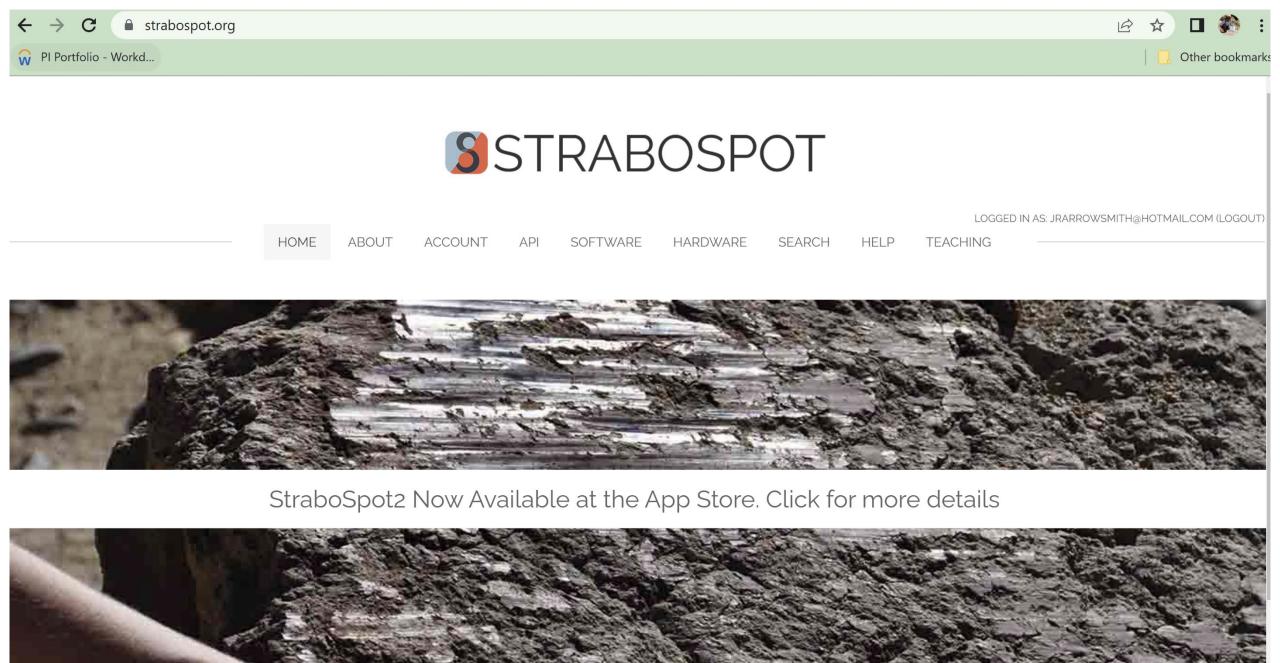
Ramón Arrowsmith

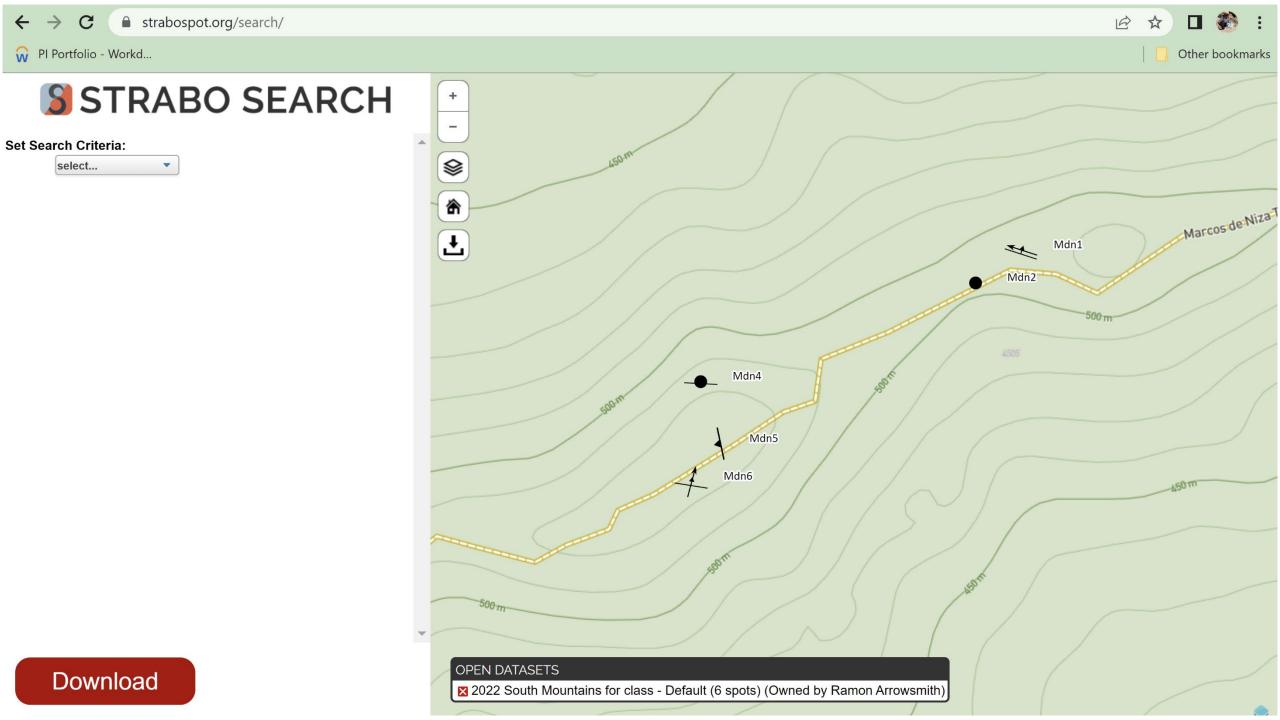
ramon.arrowsmith@asu.edu



South Mountains

- StraboSpot upload and back up
- StraboSport download and plot





DOWNLOAD OPTIONS:

×

Download Datasets:

✓ Default (6 spots)

Download Scope:

- All Spots
- Only spots in current window.

Shapefile Download StraboSpot data in shapefile format.

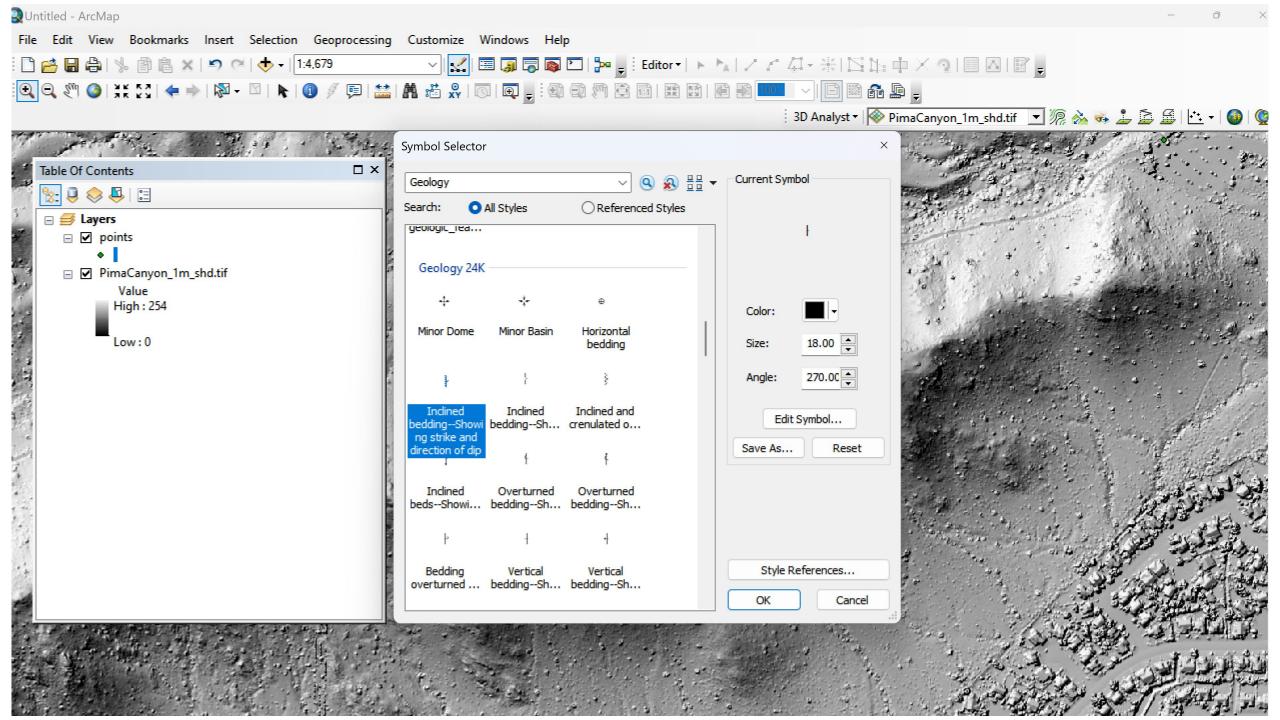
KMZ Download StraboSpot data in .kmz format suitable for Google Earth.

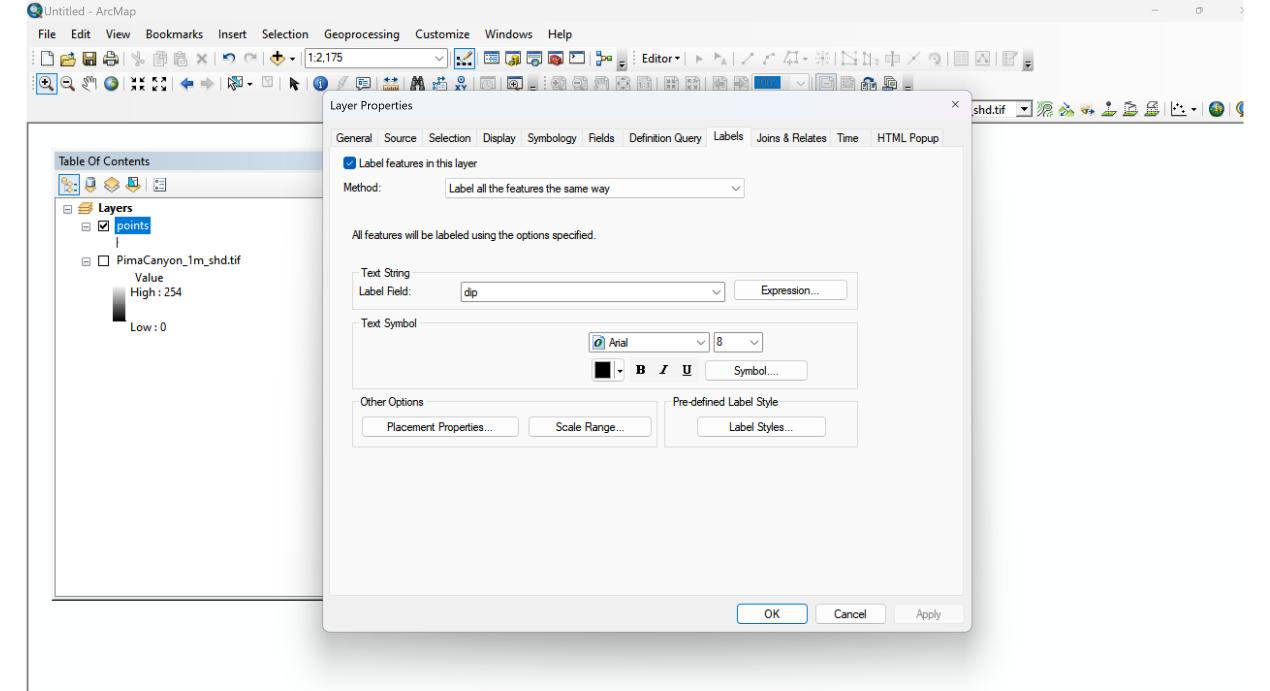
Excel Download StraboSpot data in Microsoft Excel spreadsheet format.

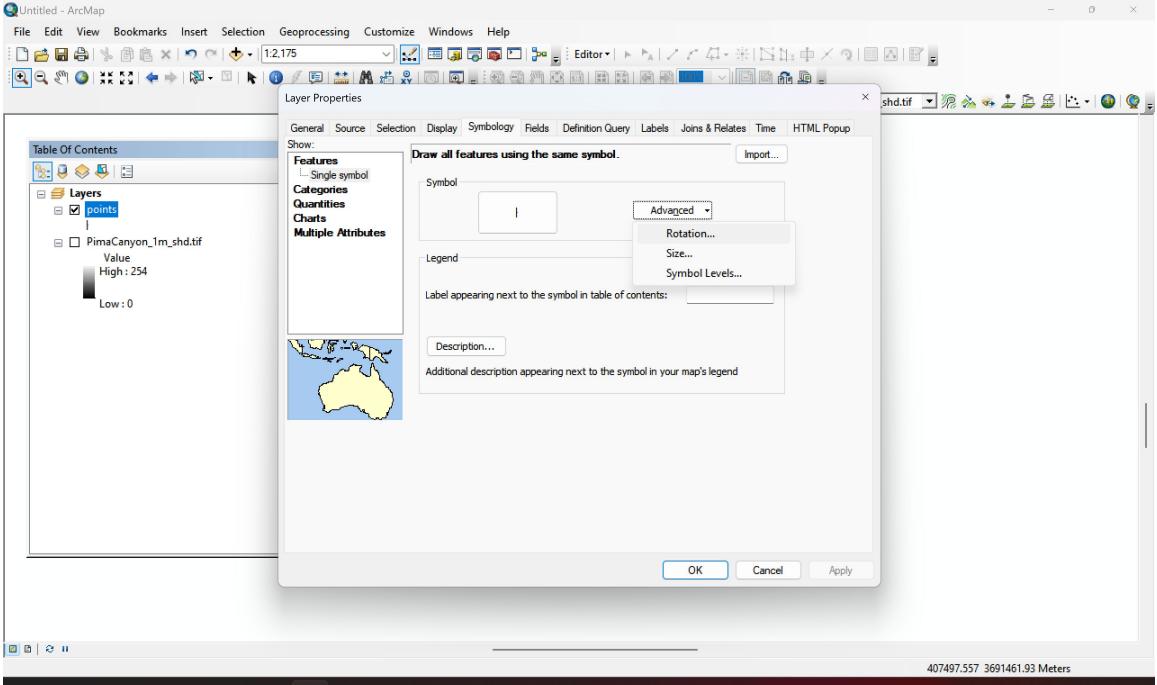
Stereonet Download StraboSpot data in format suitable for Rick Allmendinger's Stereonet software.

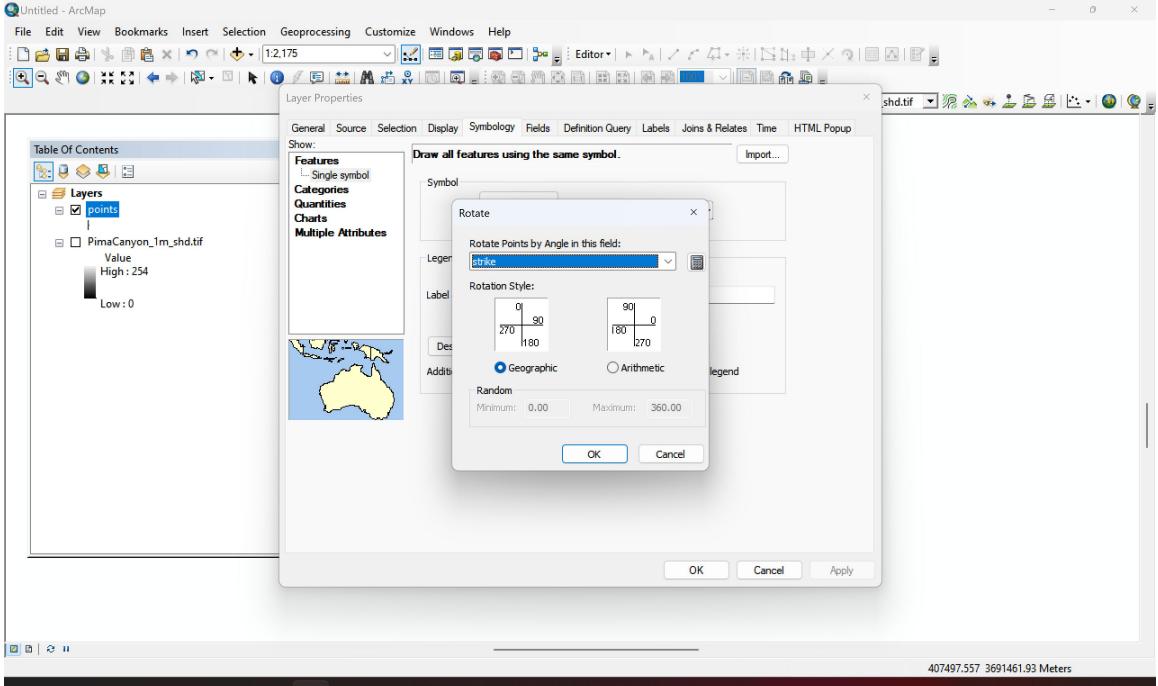
Field Book Download StraboSpot data in PDF Field Book format.

Strat Section(s) Download StraboSpot strat section SVG file(s).

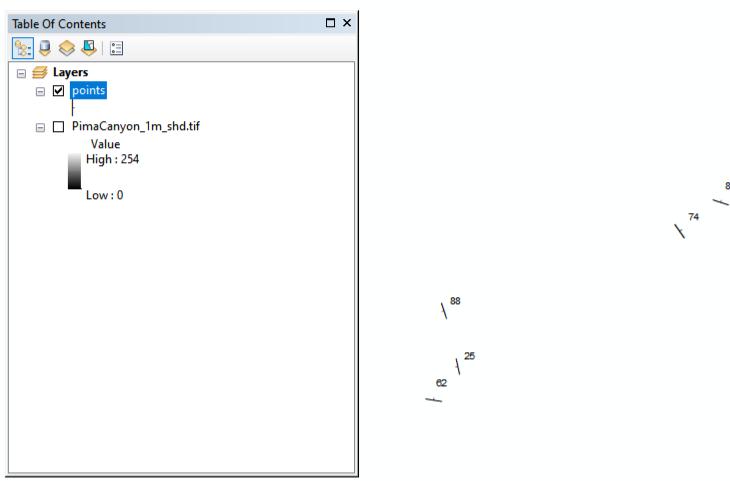












Carefree fault

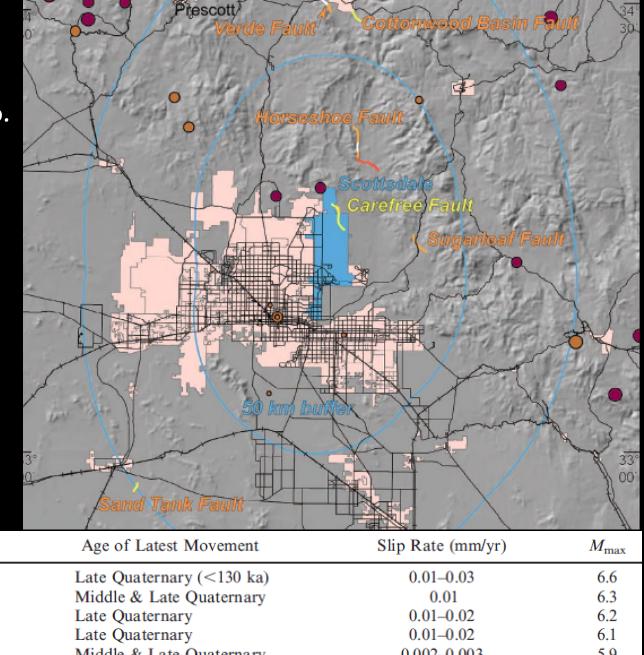
- Sunday October 30 all day
- Catch a ride with me or meet there

Ghanat, S. T., Kavazanjian, E., Arrowsmith, J.R., Seismic Source Characterization for Greater Phoenix Area Earthquake Hazard, Environmental and Engineering Geoscience, Vol. XXI, No. 3, pp. 211–222, August 2015.





Detailed source characterization for Phoenix



				17
Fault Sources	Length (km)	Age of Latest Movement	Slip Rate (mm/yr)	$M_{ m max}$
Horseshoe	20	Late Quaternary (<130 ka)	0.01-0.03	6.6
Carefree	11	Middle & Late Quaternary	0.01	6.3
Verde	10	Late Quaternary	0.01-0.02	6.2
Sugarloaf	9	Late Quaternary	0.01-0.02	6.1
Cottonwood	5	Middle & Late Quaternary	0.002-0.003	5.9
Sand Tank	5	Late Quaternary	0.01-0.03	5.9

