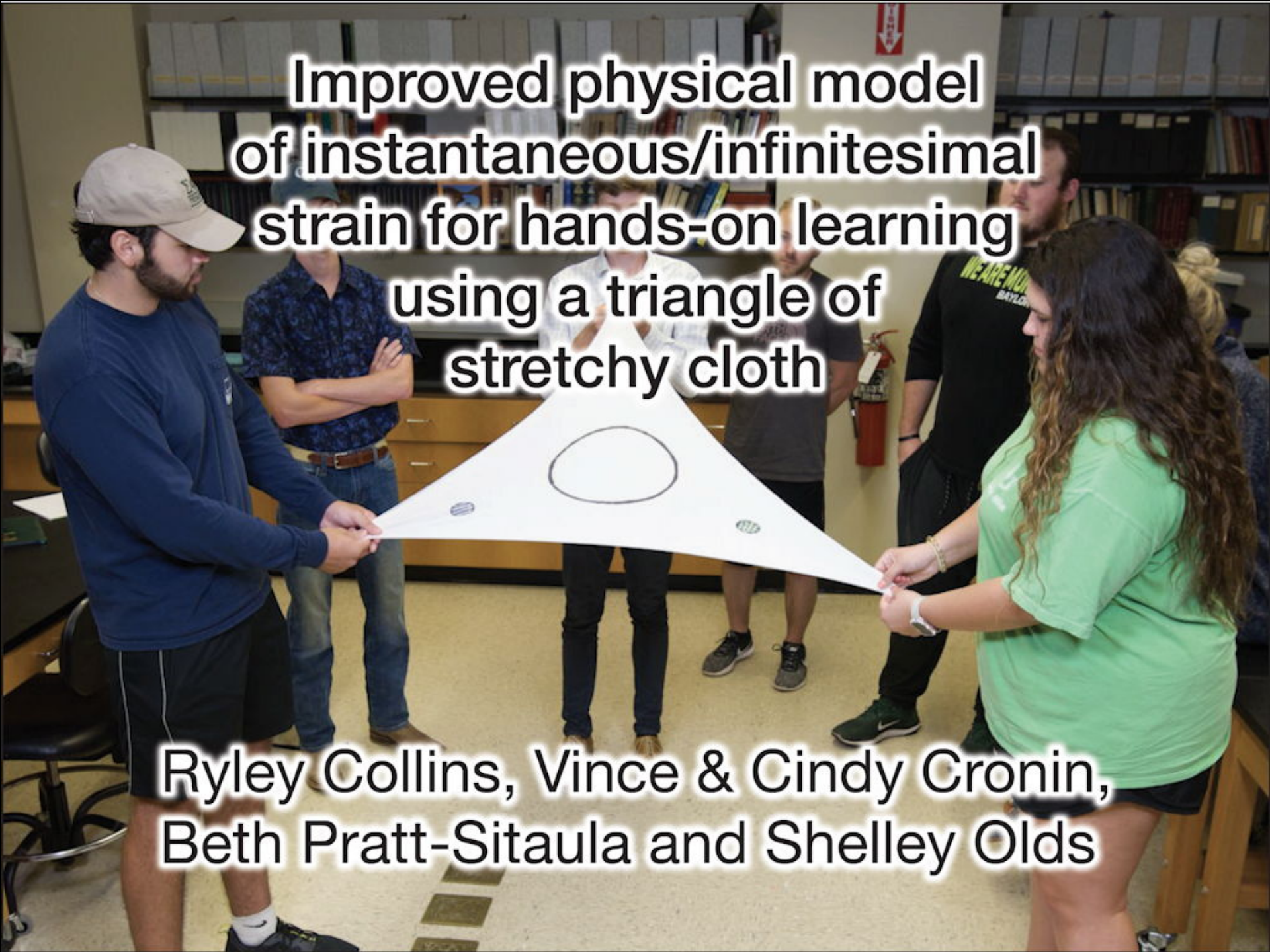


Improved physical model
of instantaneous/infinitesimal
strain for hands-on learning
using a triangle of
stretchy cloth

Ryley Collins, Vince & Cindy Cronin,
Beth Pratt-Sitaula and Shelley Olds



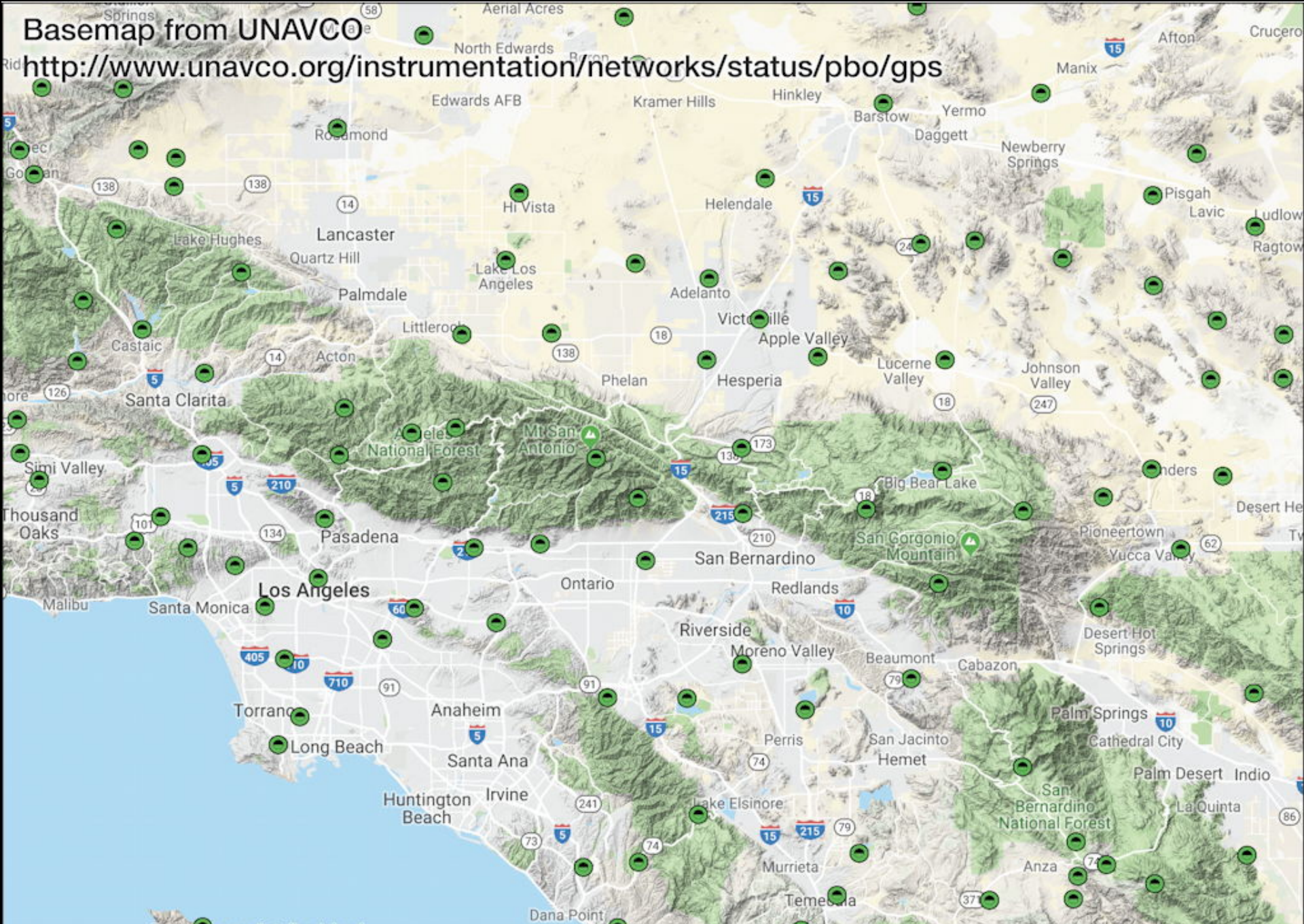
GETSI Module: GPS, Strain, and Earthquakes



For more information, <http://croninprojects.org/TriangleStrainClothModel/>

Basemap from UNAVCO

<http://www.unavco.org/instrumentation/networks/status/pbo/gps>



For more information, <http://croninprojects.org/TriangleStrainClothModel/>

home > instrumentation > networks > pbo > overview > P574

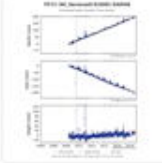
P574 - Overview | PBO Station Page

Overview Data Products Station Health Maintenance Photos

P574 Overview



Station Position



Station Type: GPS

Station Information

4-Char ID: P574 - GPS
 Station ID: Installed / C
 Station Name: Mt_Harwood
 Project: PBO
 Location (City, State): Upland, CA
 Latitude, Longitude*: 34.287, -117.53389
 Elevation*: 2,874 m
 Monument Type: SDBM
 Station Install Date: 2008/06/08
 Monument Install Date: 2008/06/08
 Current Status: OK
 *GPS receiver values - not precise

Station Data

Station Report: Text File
 Installation Report: VPN or Internal
 Time Series Data: NAM08 CSV |
 Time Series Plot Viewer: Nearby GPS |
 Realtime Dataflow: Not Available
 Meteorologic Plots: Not Available

Colocated Instruments
 P574: GPS_RECEIVER

GPS Monument Coordinates

Approximate Geographic Coordinates

lat/lon/elev (d/d/m)*: 34.28977 -117.53389

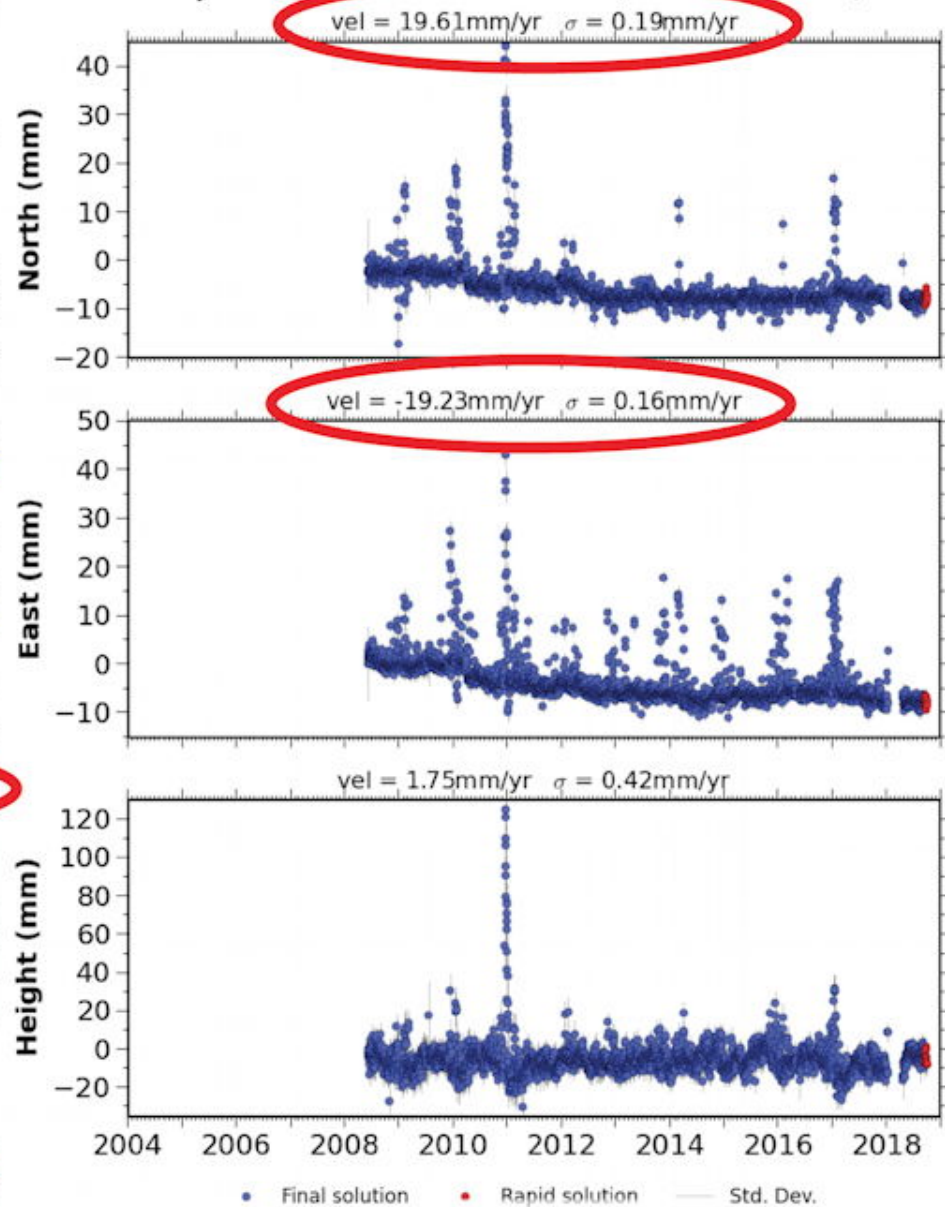
X/Y/Z (m/m/m): -2447939.9632 -4675739.5032
 Ref Epoch**: 2018.696

*Approximate latitude and longitude the average of the last 7 days of positions from the analysis and are in decimal degrees and elevation is in meters, where "elevation" is the vertical spacing from the reference ellipsoid to the antenna reference point (ARP). See CORS for legal position.

**Station position based on the most recent full 7 days of final orbit solutions available, with the epoch being the middle day of this 7 day period.

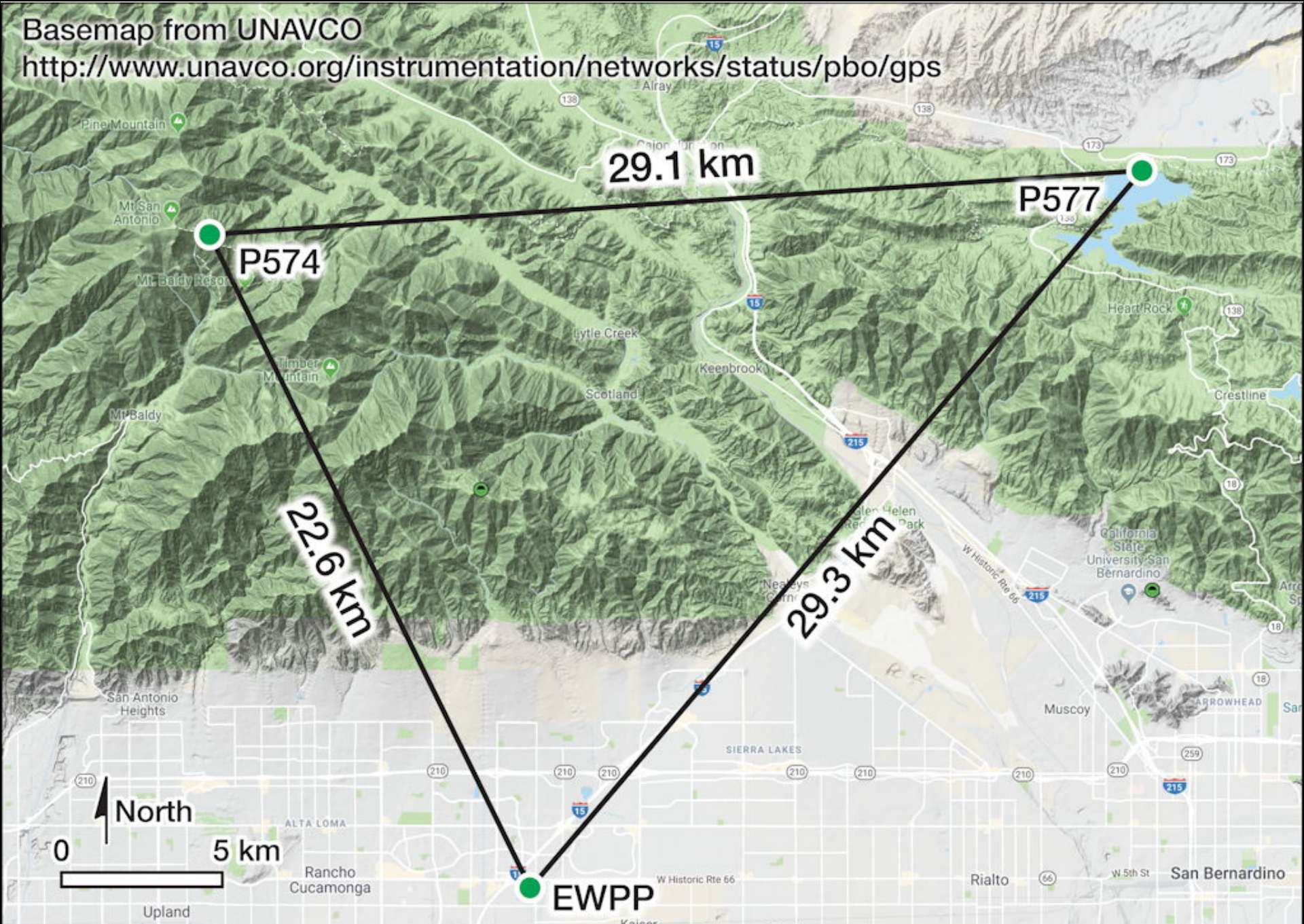
P574 (Mt_HarwoodCS2008) NAM08

Processed Daily Position Time Series - Cleaned (Outliers Removed) & Detrended

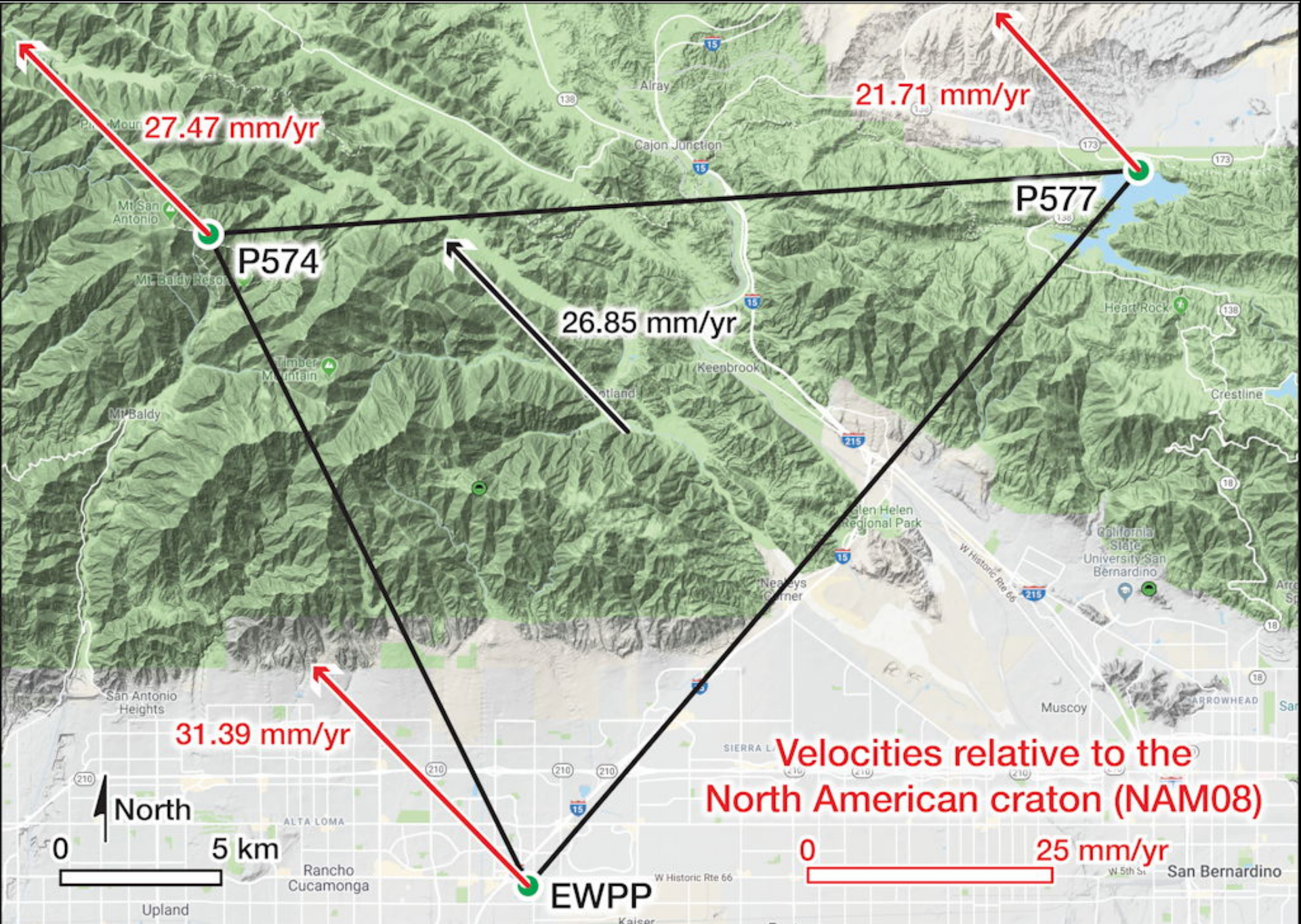


Basemap from UNAVCO

<http://www.unavco.org/instrumentation/networks/status/pbo/gps>

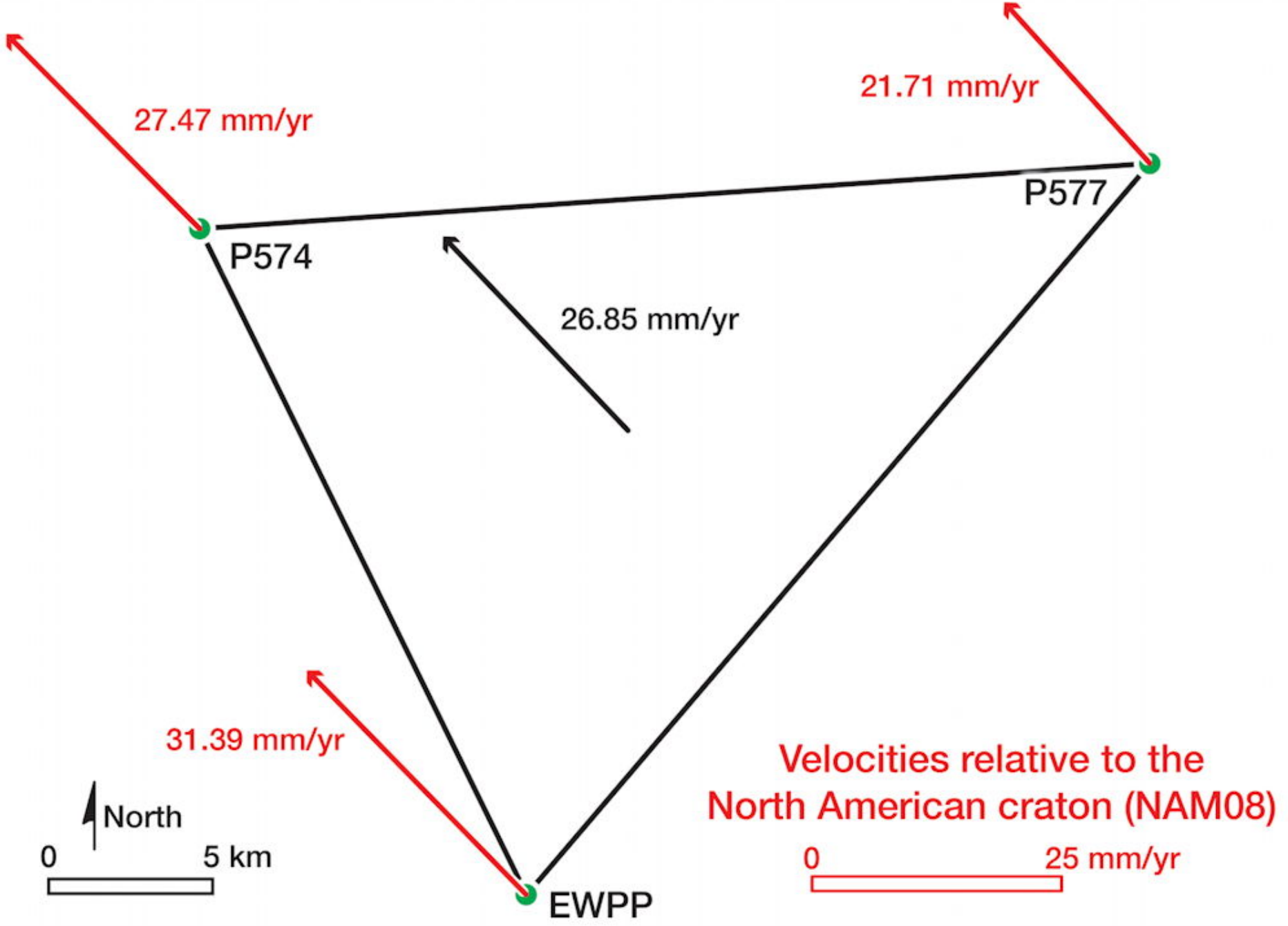


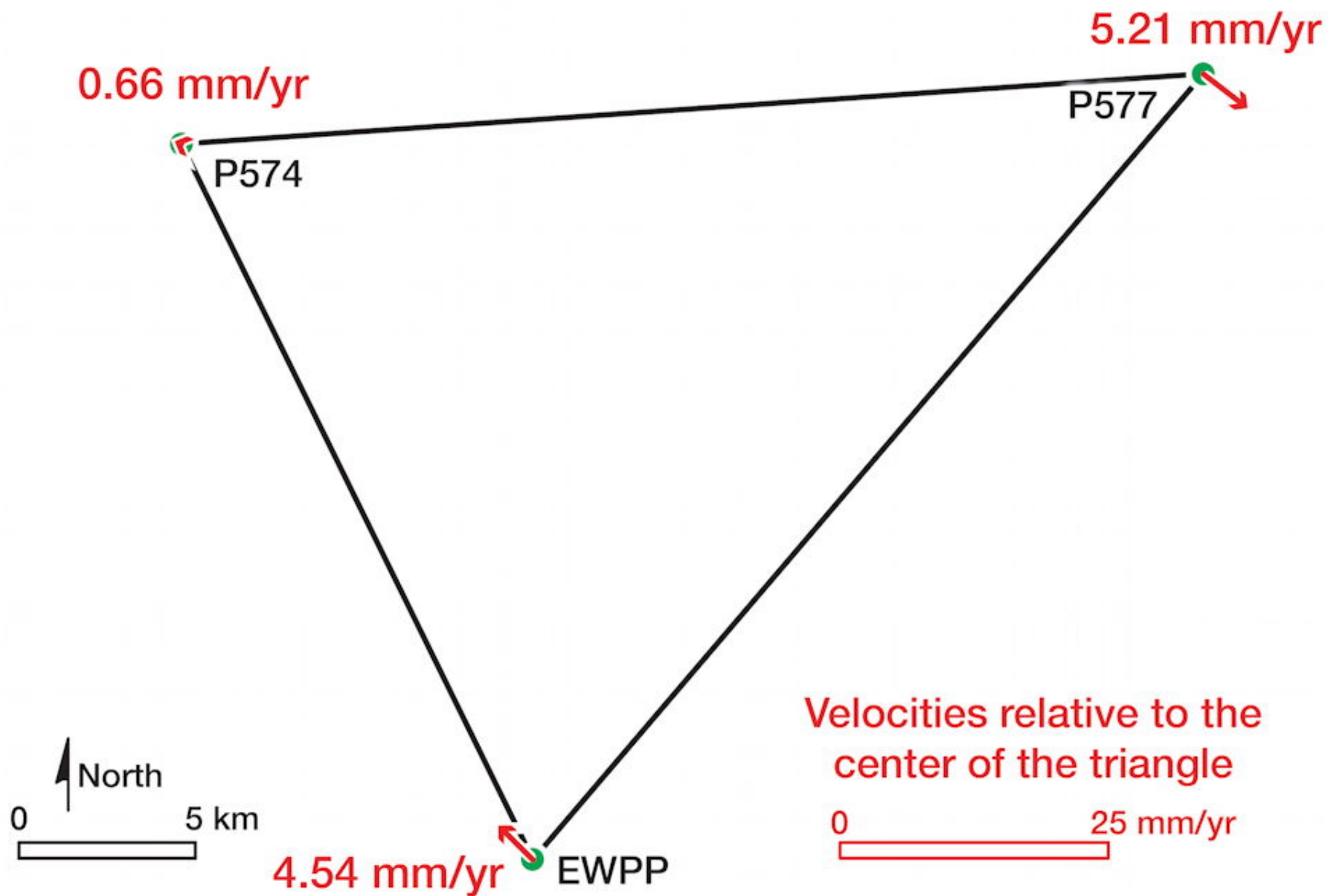
For more information, <http://croninprojects.org/TriangleStrainClothModel/>

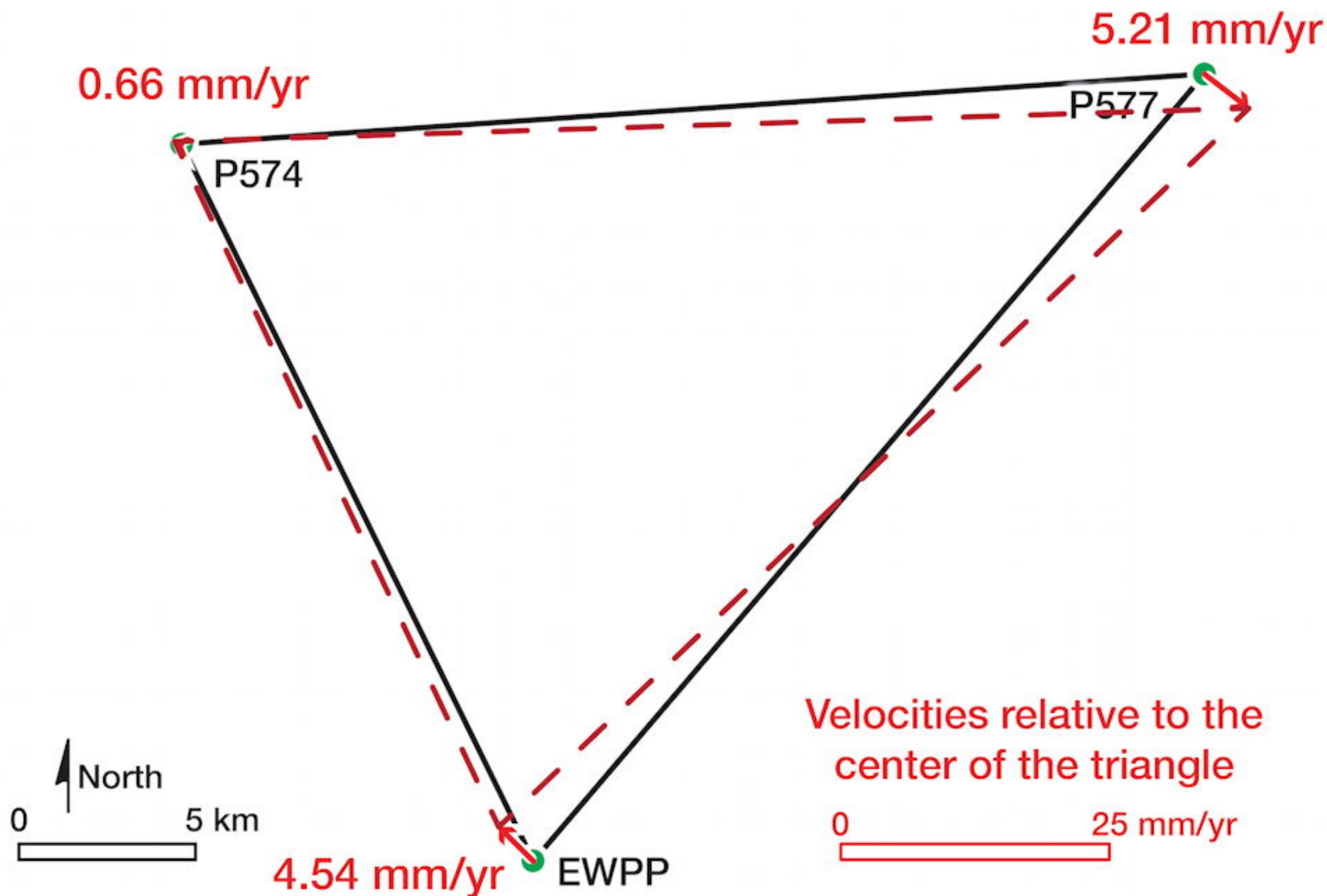


Velocities relative to the North American craton (NAM08)

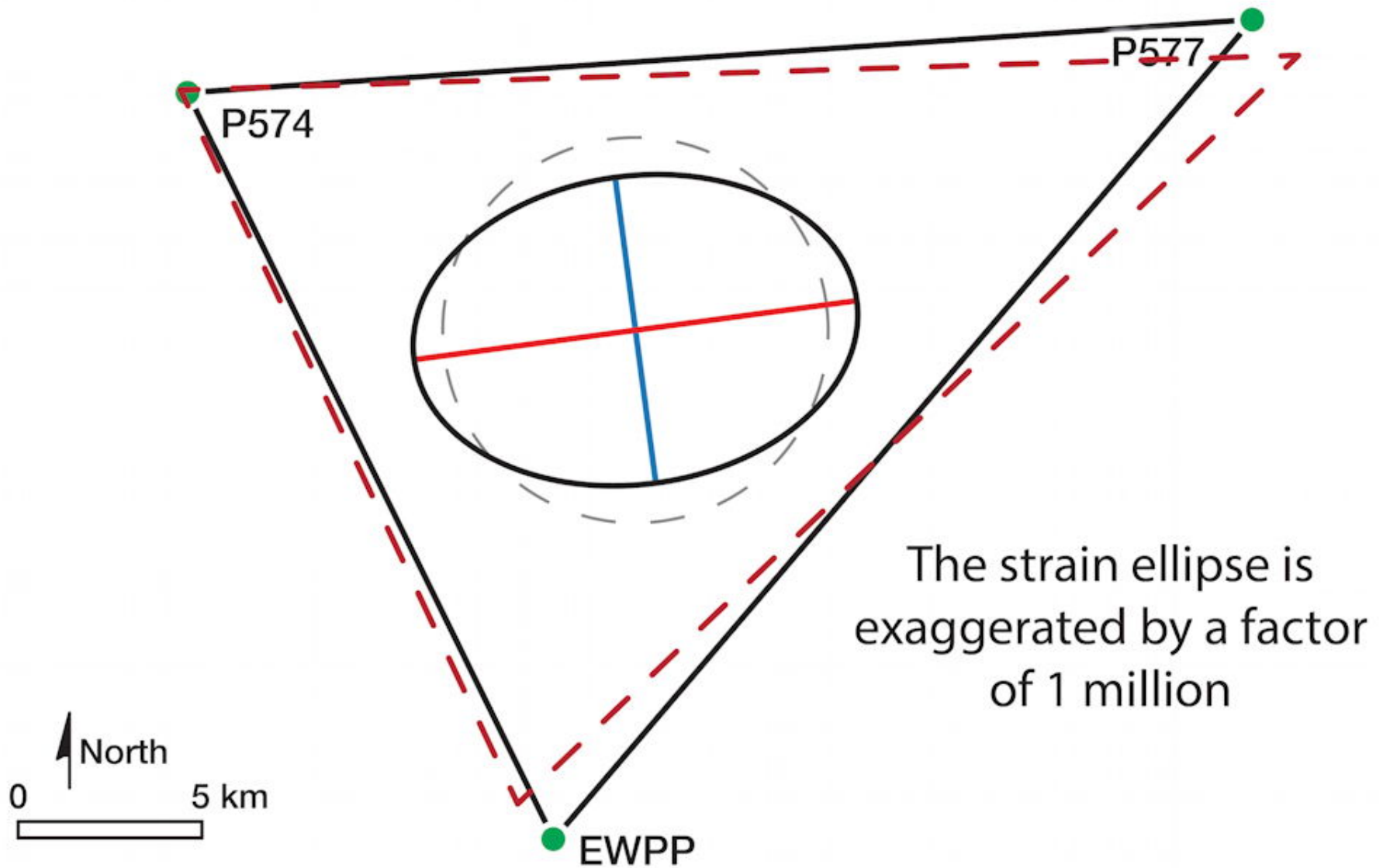
For more information, <http://croninprojects.org/TriangleStrainClothModel/>



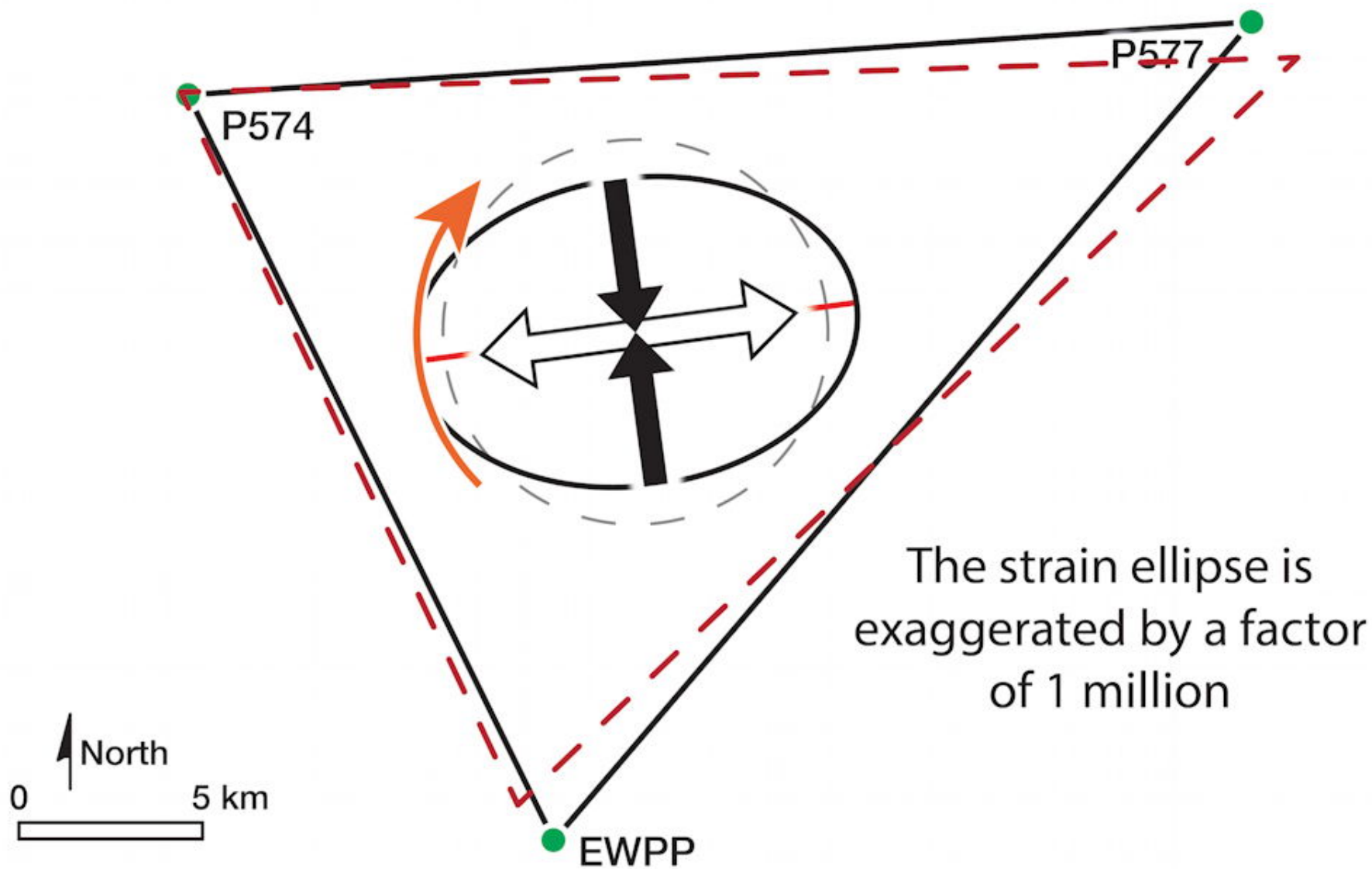




This area is rotating clockwise.



This area is rotating clockwise.



The strain ellipse is exaggerated by a factor of 1 million

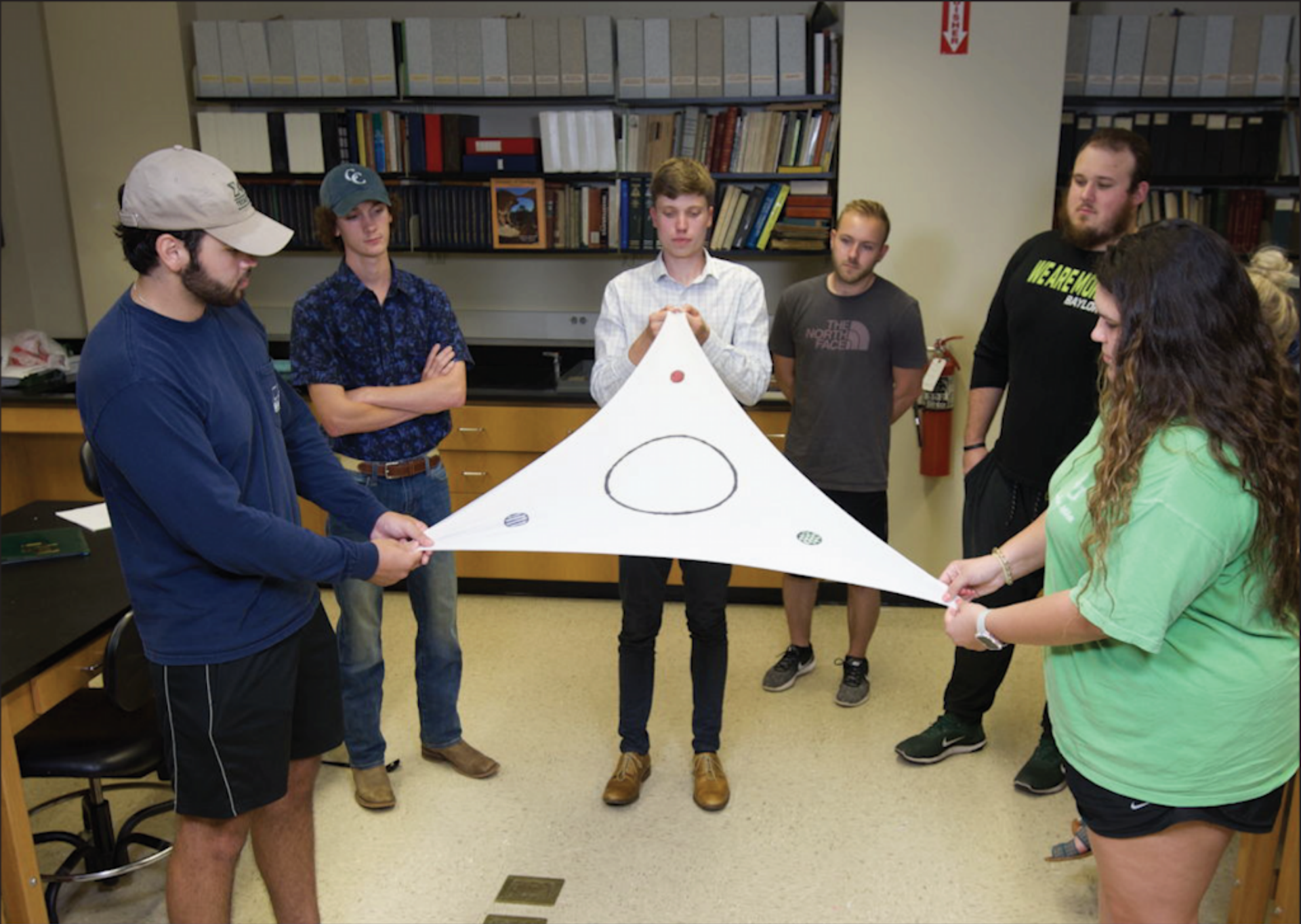


For more information, <http://croninprojects.org/TriangleStrainClothModel/>

Fault traces generalized from the USGS Quaternary Fault and Fold Database of the United States

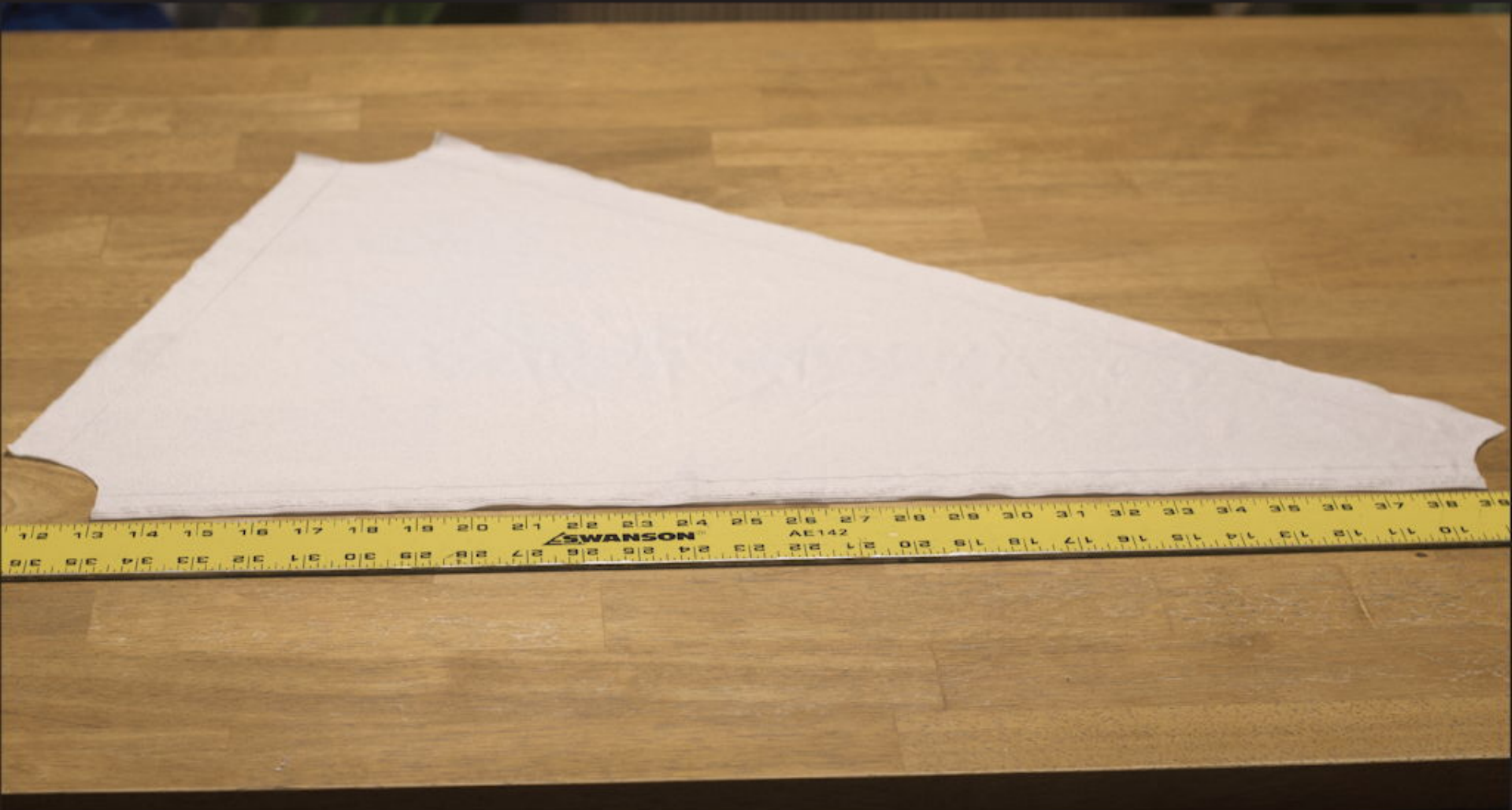


For more information, <http://croninprojects.org/TriangleStrainClothModel/>

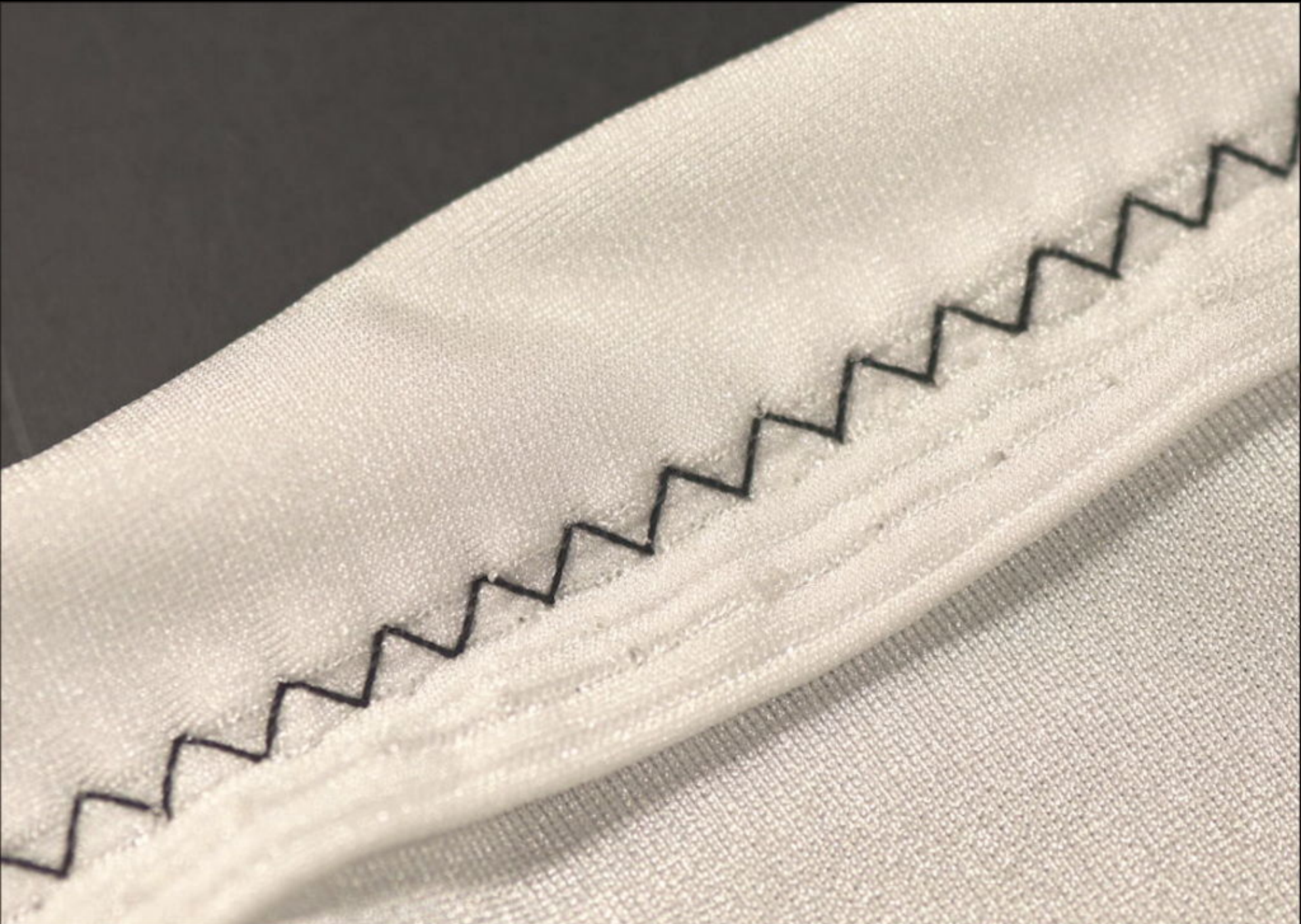


For more information, <http://croninprojects.org/TriangleStrainClothModel/>

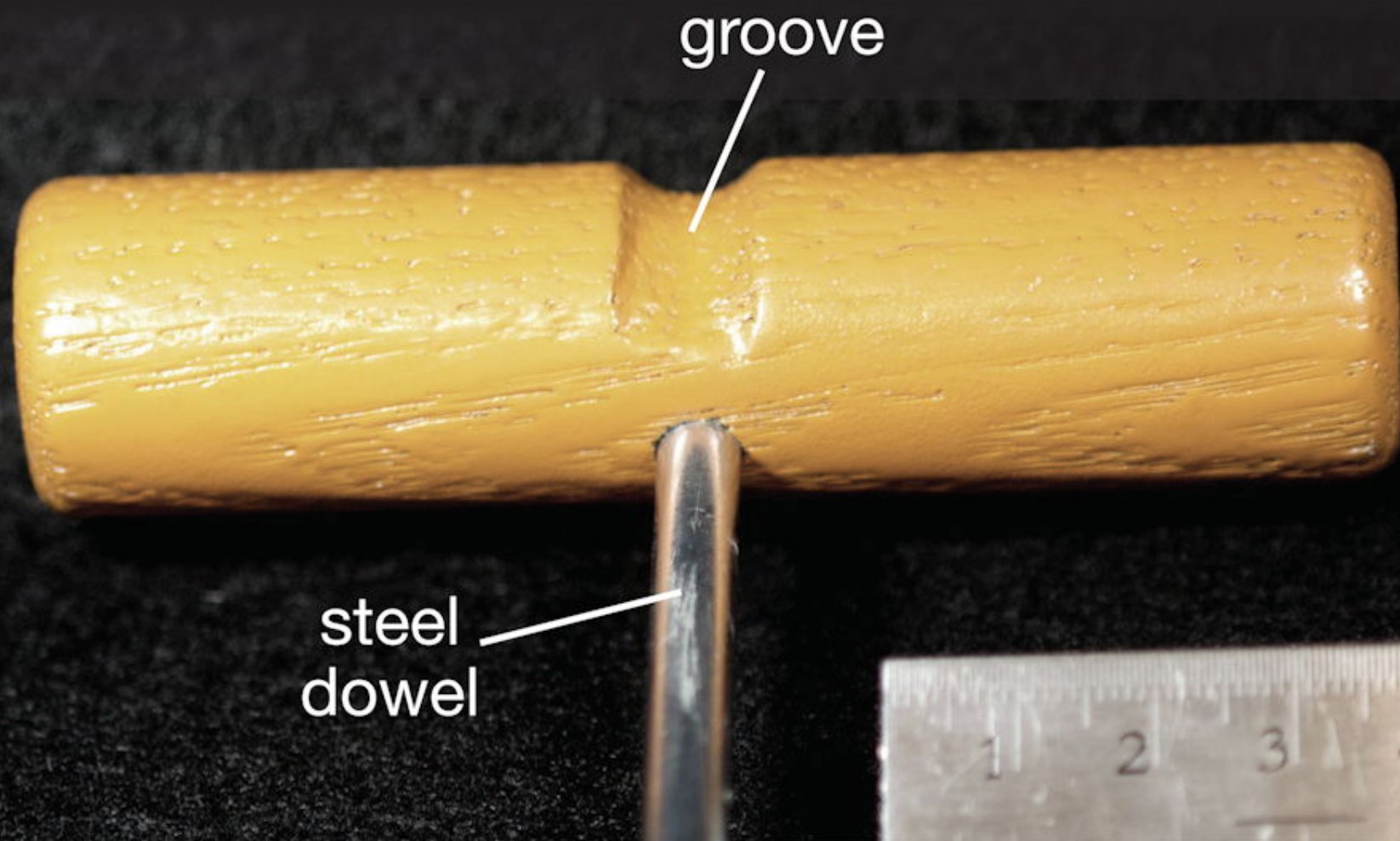
http://croninprojects.org/Vince/PhysModel/StretchFabric_r.jpg



For more information, <http://croninprojects.org/TriangleStrainClothModel/>



For more information, <http://croninprojects.org/TriangleStrainClothModel/>

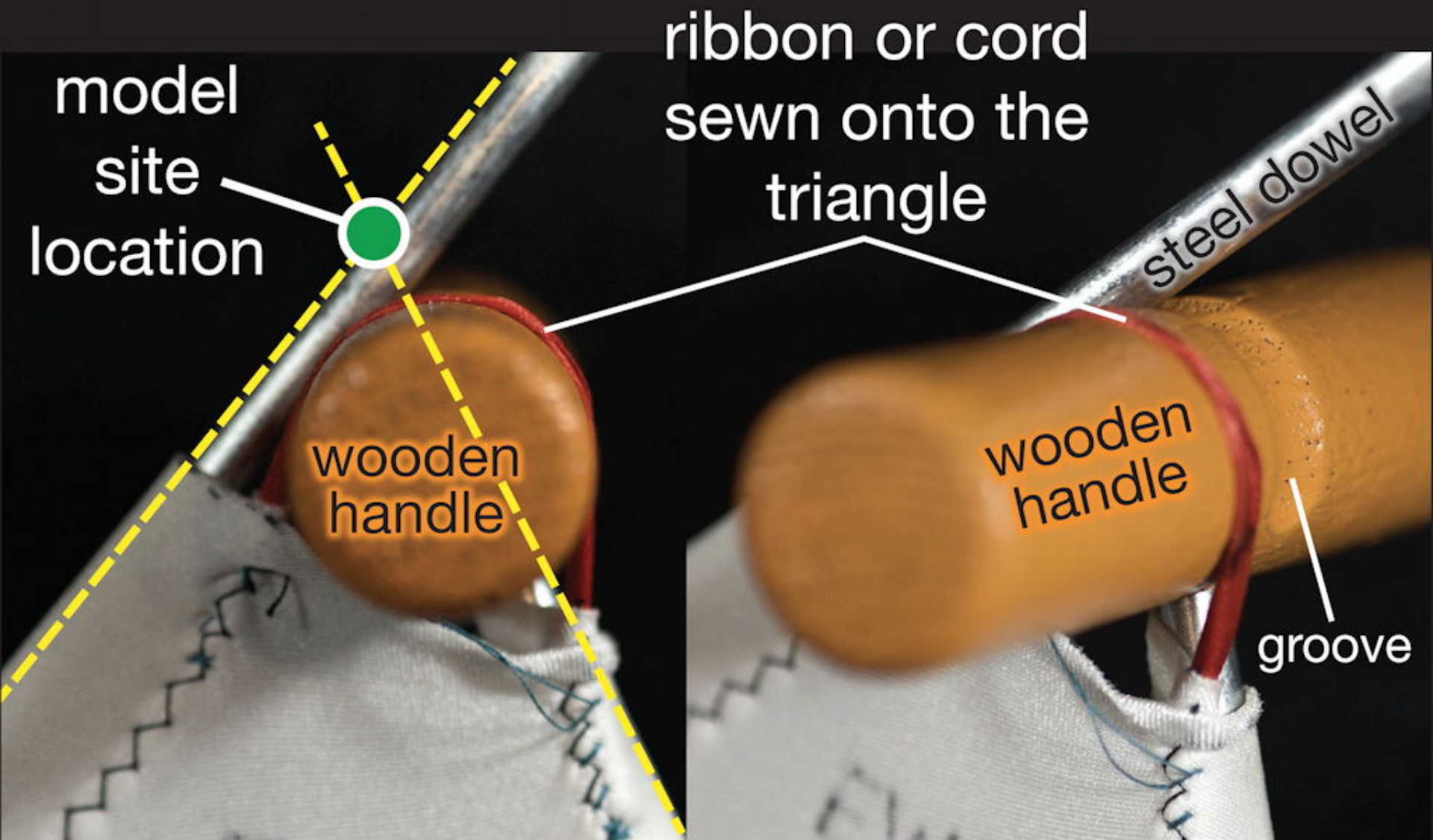


groove

steel
dowel

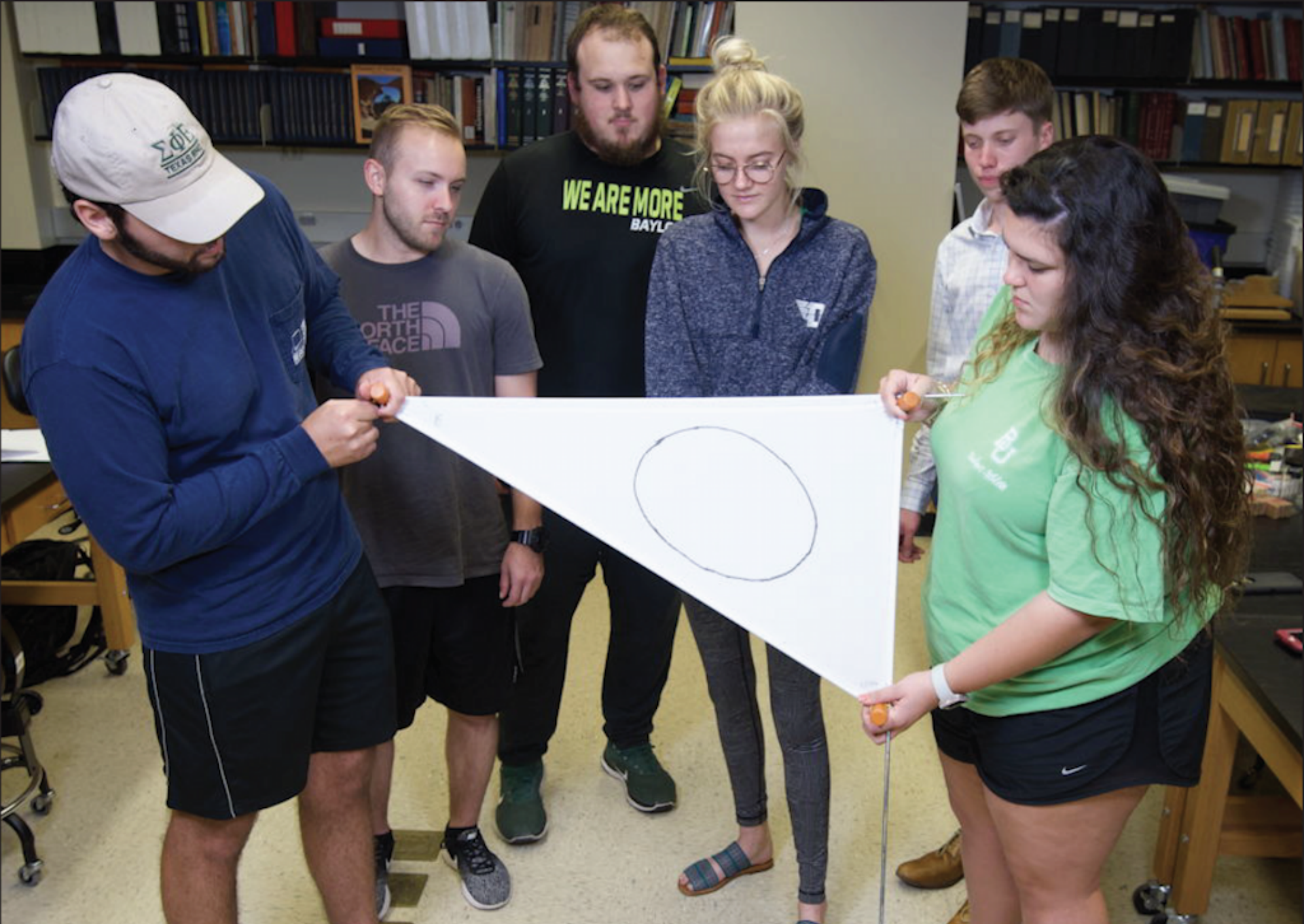
Detail showing the wooden handle and steel dowel

For more information, <http://croninprojects.org/TriangleStrainClothModel/>



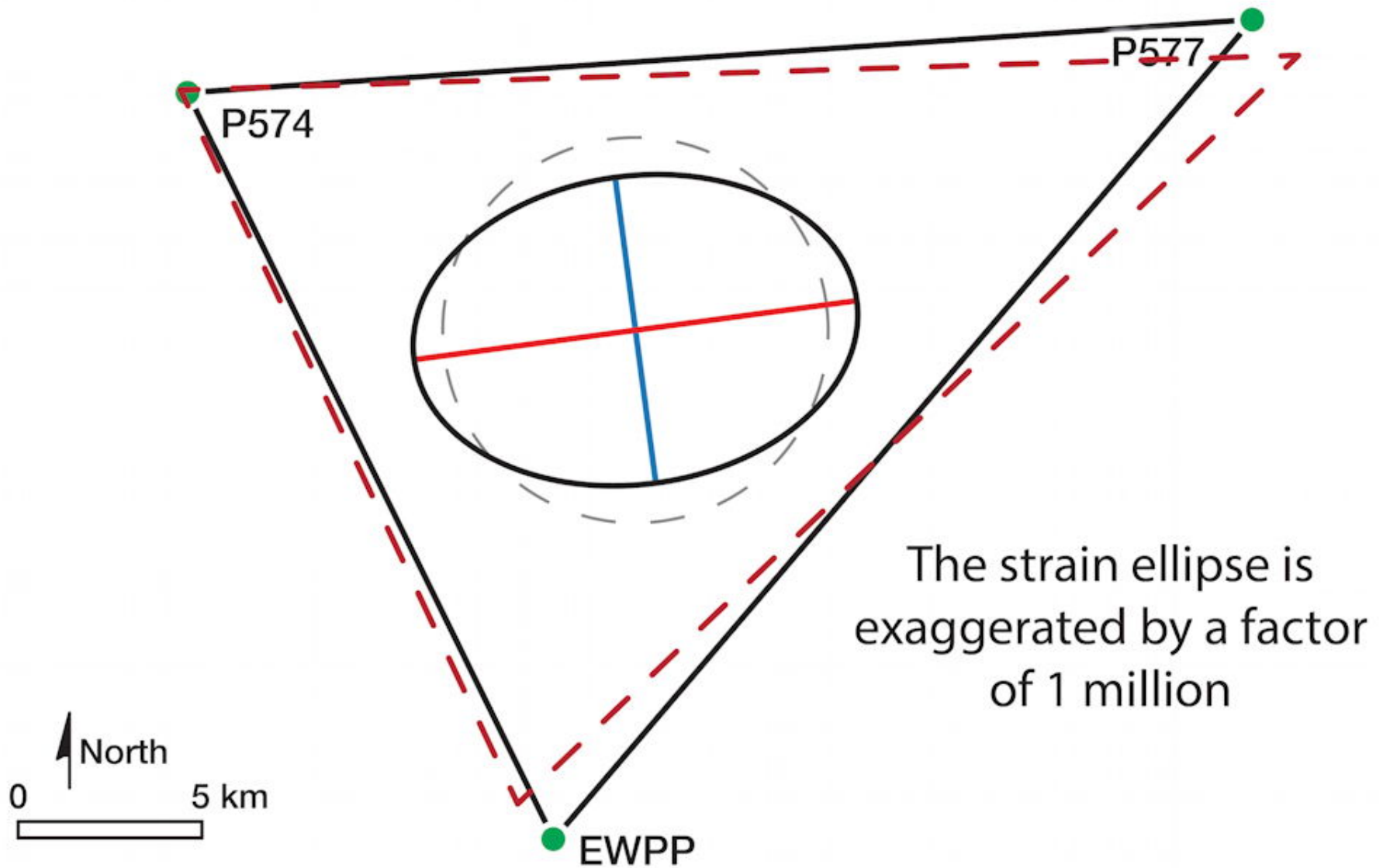
Detail showing the apices of the model triangle

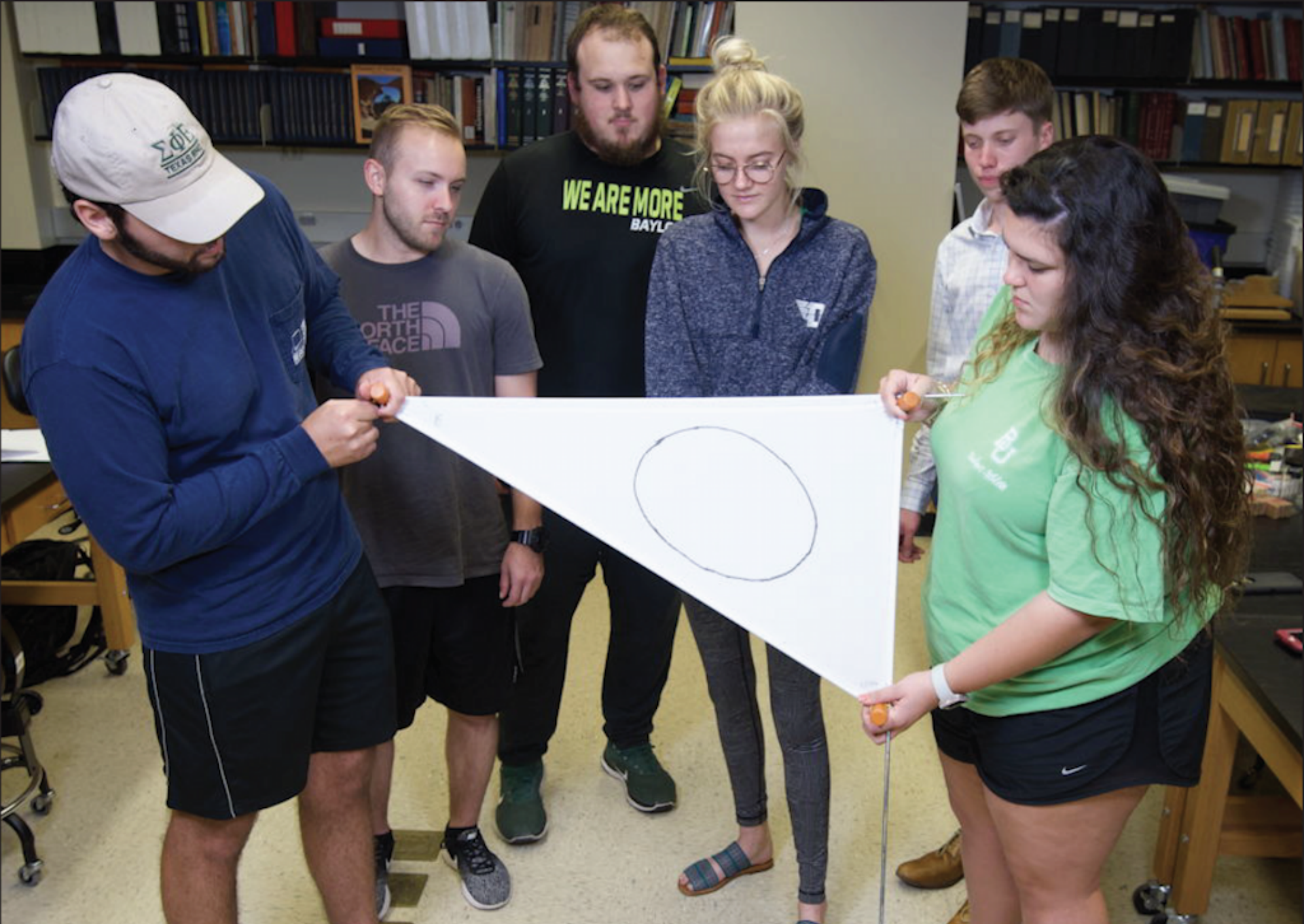
For more information, <http://croninprojects.org/TriangleStrainClothModel/>



For more information, <http://croninprojects.org/TriangleStrainClothModel/>

This area is rotating clockwise.





For more information, <http://croninprojects.org/TriangleStrainClothModel/>