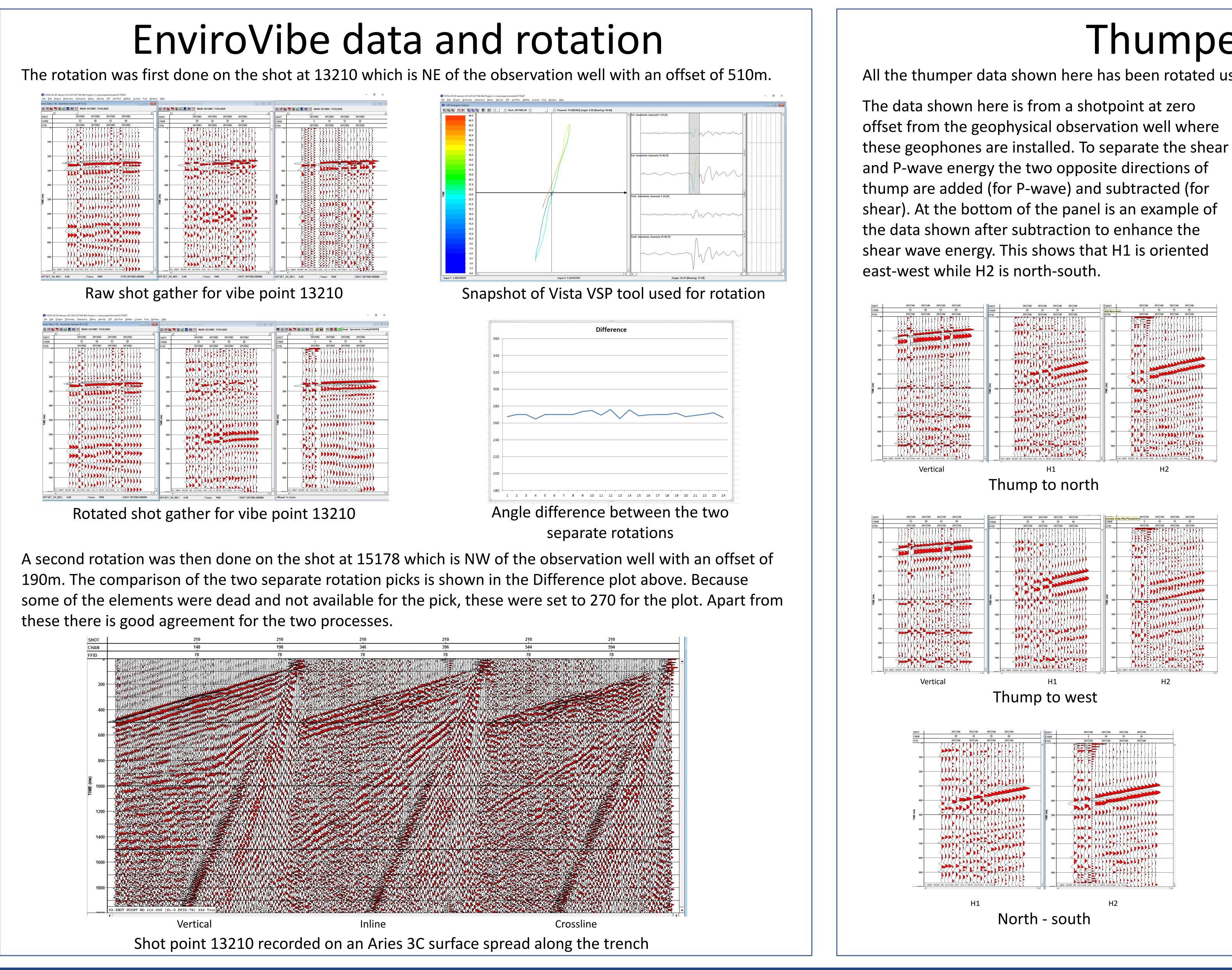
Data from the downhole array in the CaMI FRS Geophysical Observation Well Malcolm B Bertram, Don C Lawton, Kevin W Hall and Kevin L Bertram bertram@ucalgary.ca

The Containment and Monitoring Institute Field Research Station near Brooks, AB has several different sensor systems deployed is different configurations. Shown here is some data from the three component geophones installed in the Observation Well #2 at 5m spacing over an interval from 310m to 195m. The sensors are Geospace 32-CT 10Hz elements. The data presented here is from a survey conducted in May 2017 utilizing the University of Calgary EnviroVibe and an accelerated weight drop using a nitrogen spring as the drive element. This source can be rotated to 45 degrees on either

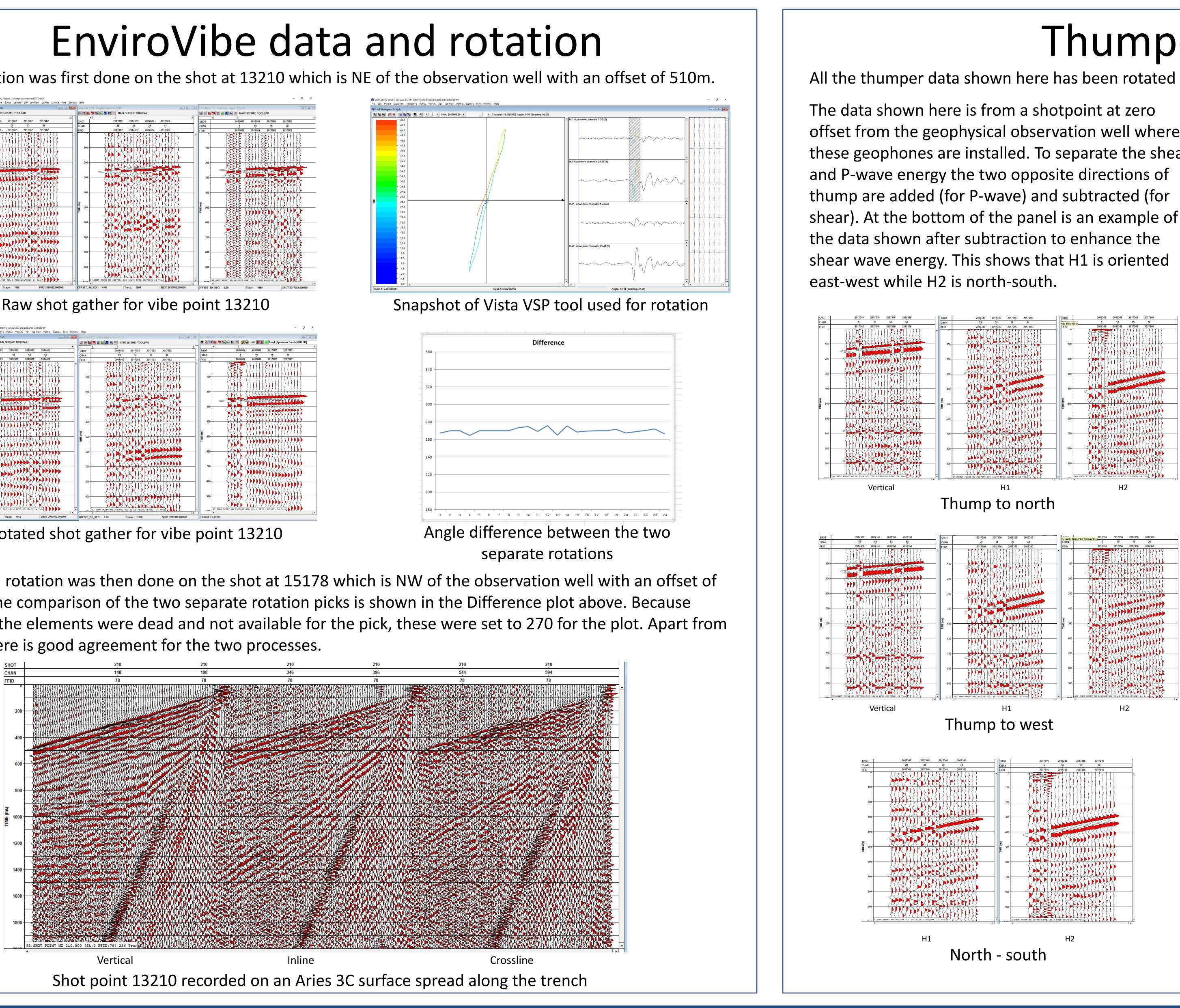
side to produce shear wave energy.

Because the geophones were not oriented on installation, it was necessary to rotate the data into H1 and H2 before processing. There were two rotations done, one from a source point at the NE end of the trench at an offset of 510m; the other from a source point on a source line perpendicular to the trench at an offset of 190m. The two were compared to check on consistency of the rotation algorithm (Vista VSP tool).



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U of C EnviroVibe



Thumper data

All the thumper data shown here has been rotated using the EnviroVibe records as shown in the other panel.















