

A10 APPENDIX 10: STEREONET KINEMATIC ANALYSIS OF REDCLIFFS DISCONTINUITY DATA

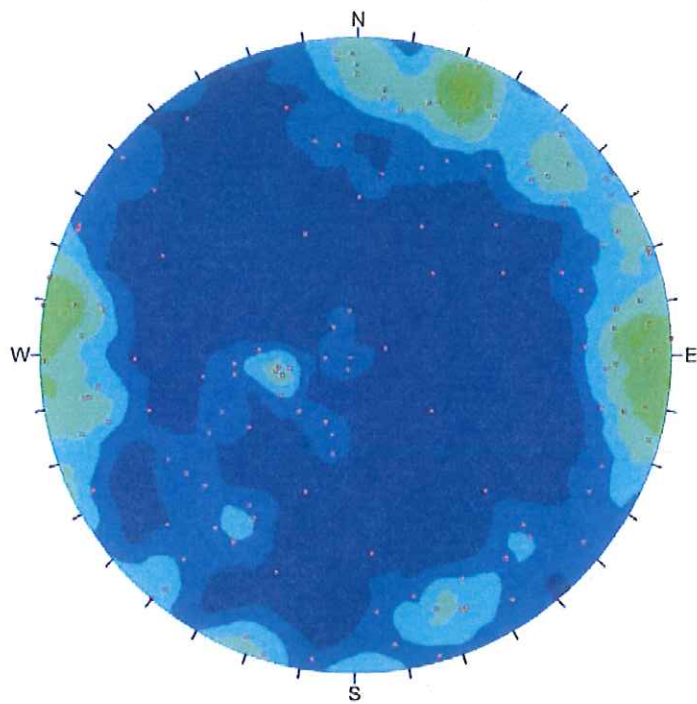
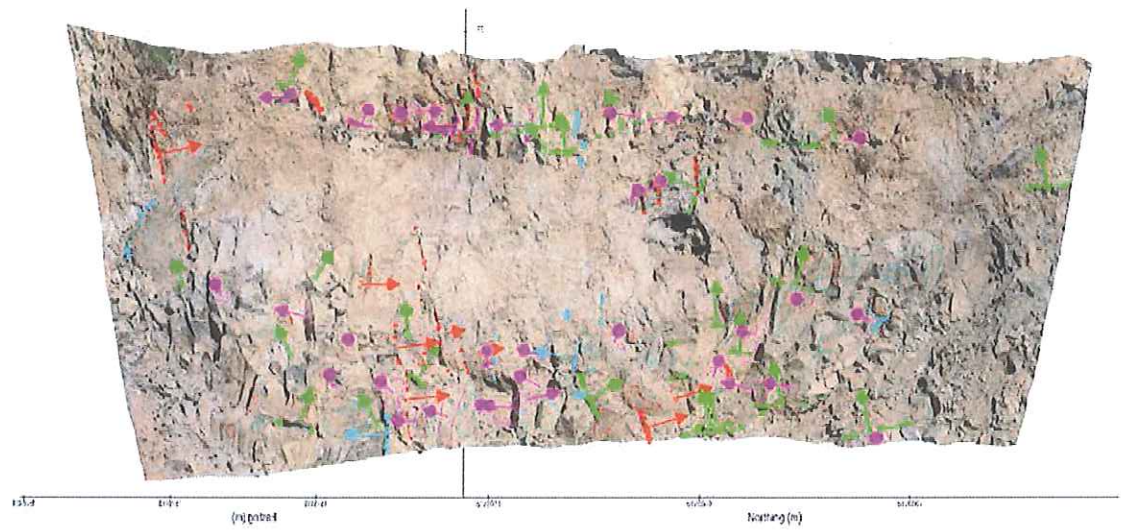
The methods adopted to derive the results in Appendix 10 are described in:

Brideau, M-A., Massey, C.I., Archibald, G.C., Jaboyedoff, M. 2012 Terrestrial photogrammetry and LiDAR investigation of the cliffs associated with the seismically triggered rockfalls during the February and June 2011 Christchurch earthquakes. p. 1179–1185 In: Eberhardt, E.B., Froese, C., Turner, K., Leroueil, S., Landslides and engineered slopes: protecting society through improved understanding: proceedings of the 11th International and 2nd North American Symposium on Landslides and Engineered Slopes, Banff, Canada, 3–8 June 2012. CRC Press.



Redcliffs School image pair 1: Structural data – July 19 2011

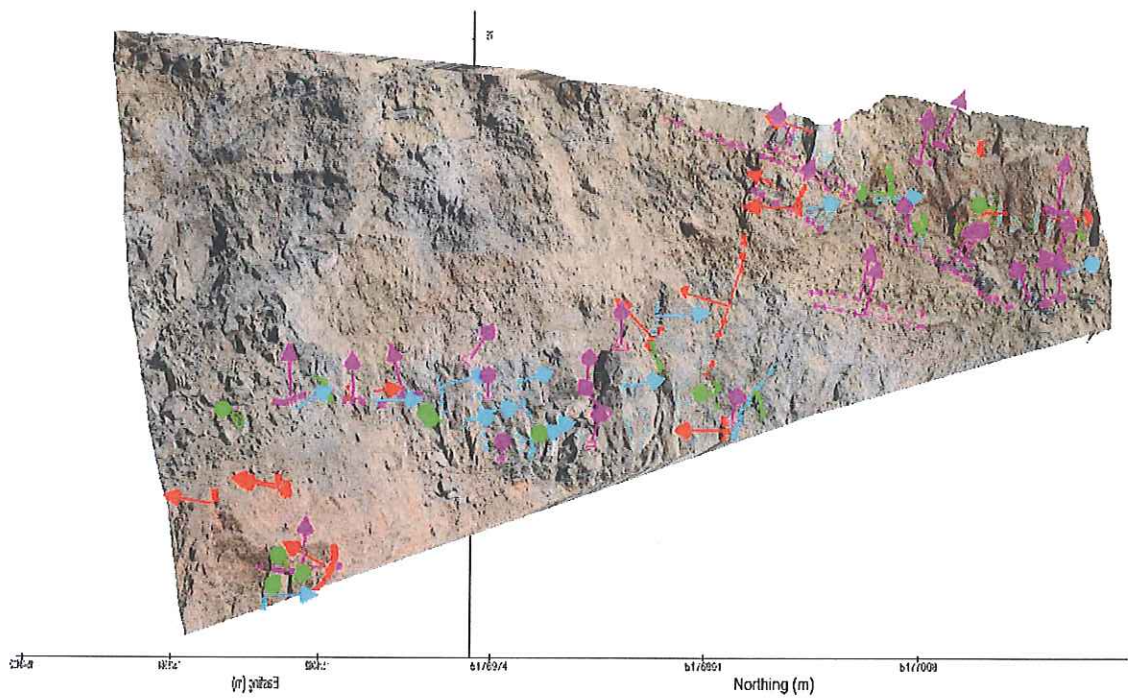


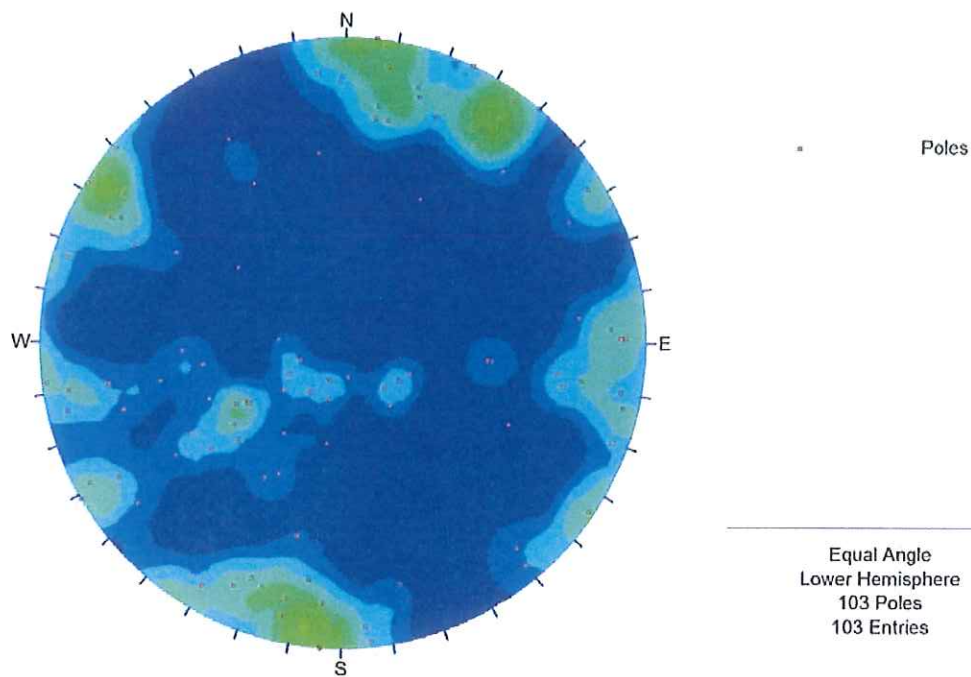


Poles

Equal Angle
Lower Hemisphere
135 Poles
135 Entries

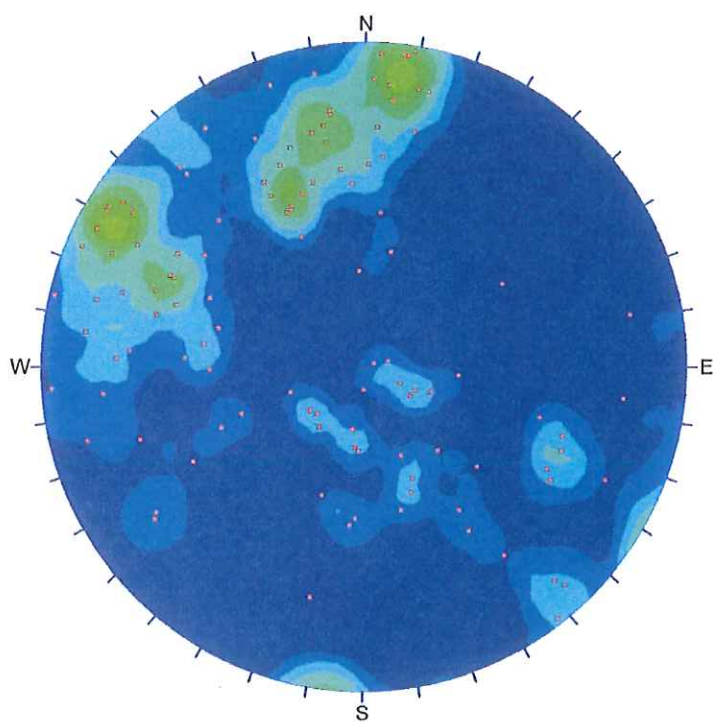
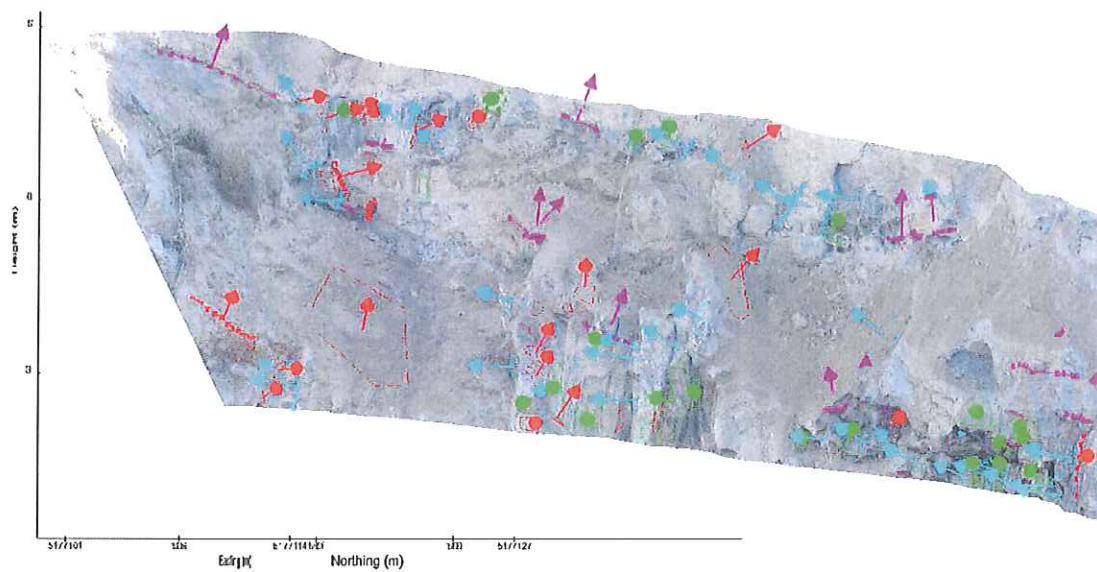
Redcliffs School image pair 2: Structural data – July 19 2011





Redcliffs School image pair 3: Structural data – July 19 2011

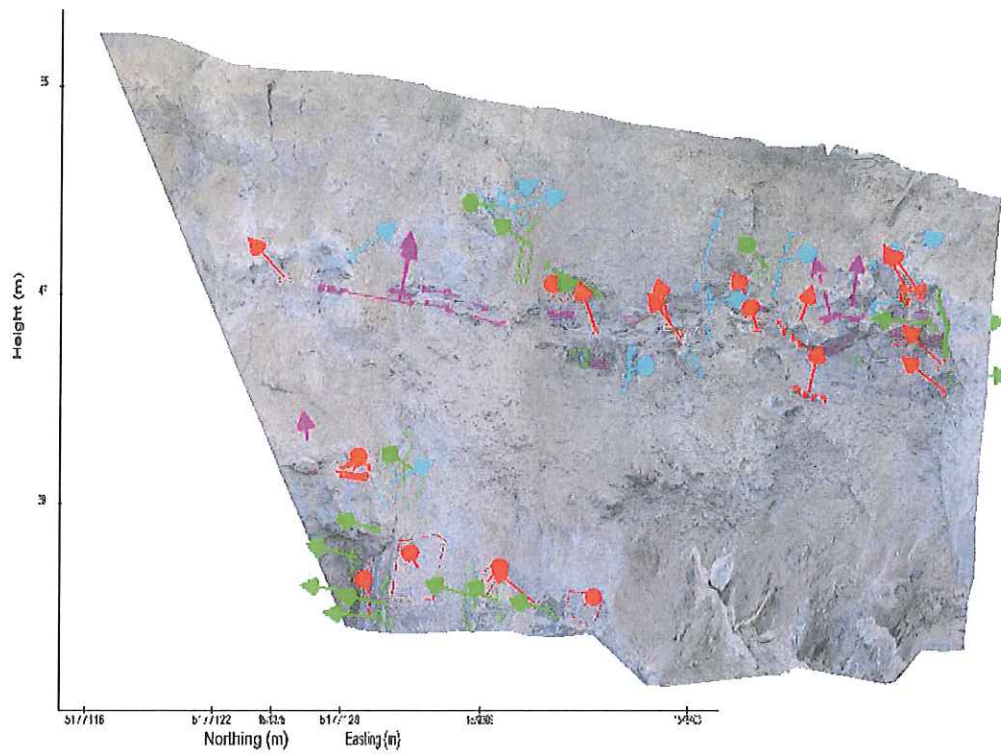


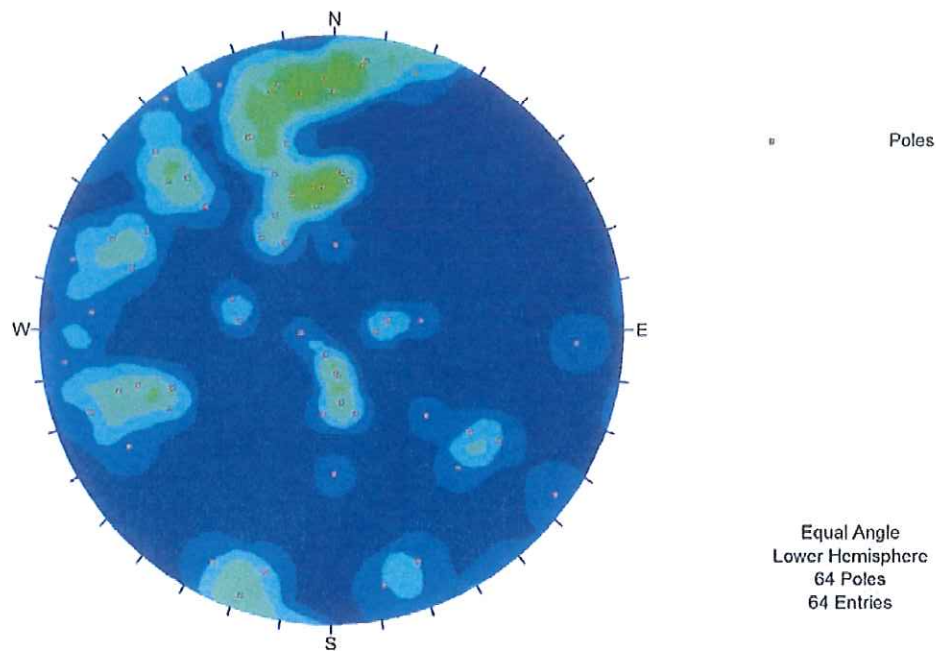


Poles

Equal Angle
Lower Hemisphere
116 Poles
116 Entries

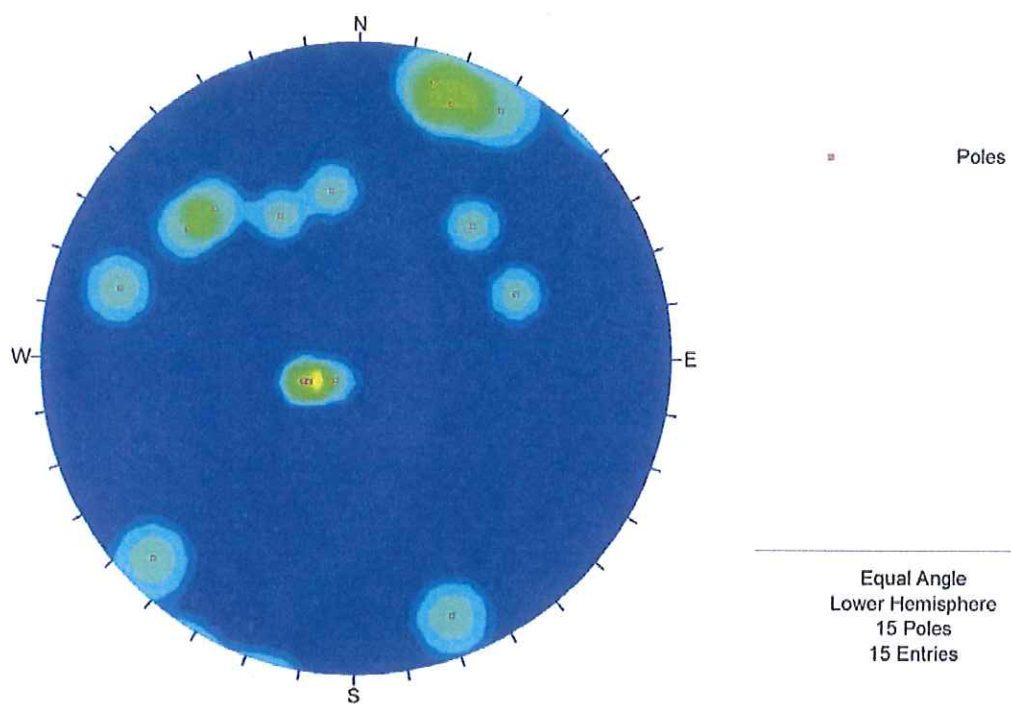
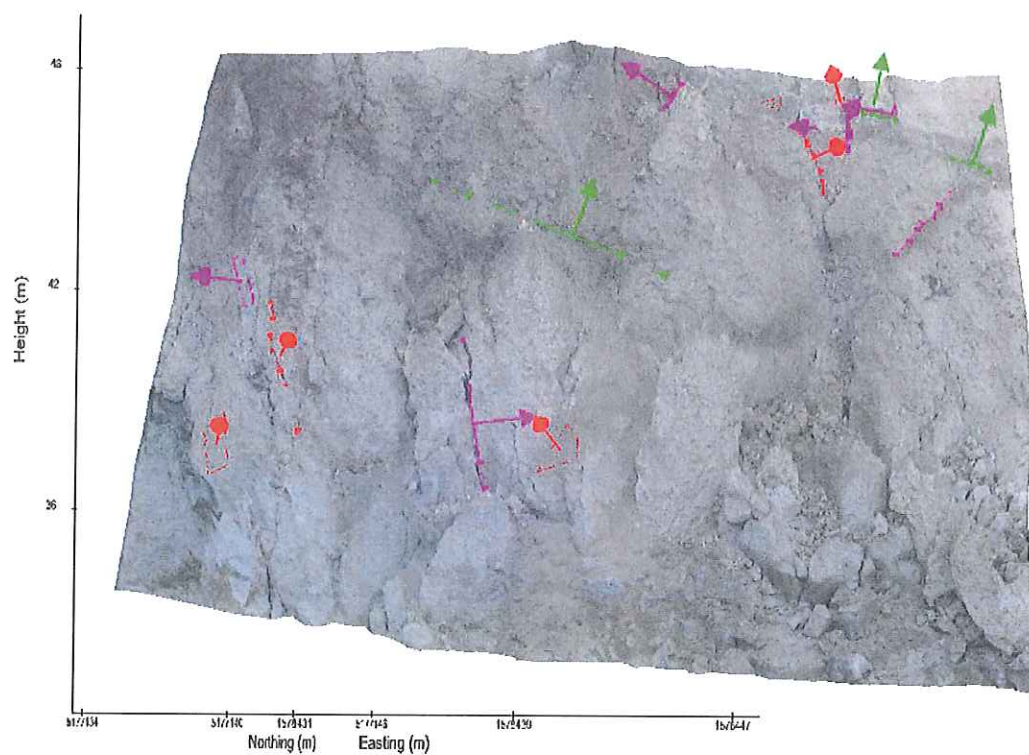
Redcliffs School image pair 4: Structural data – July 19 2011



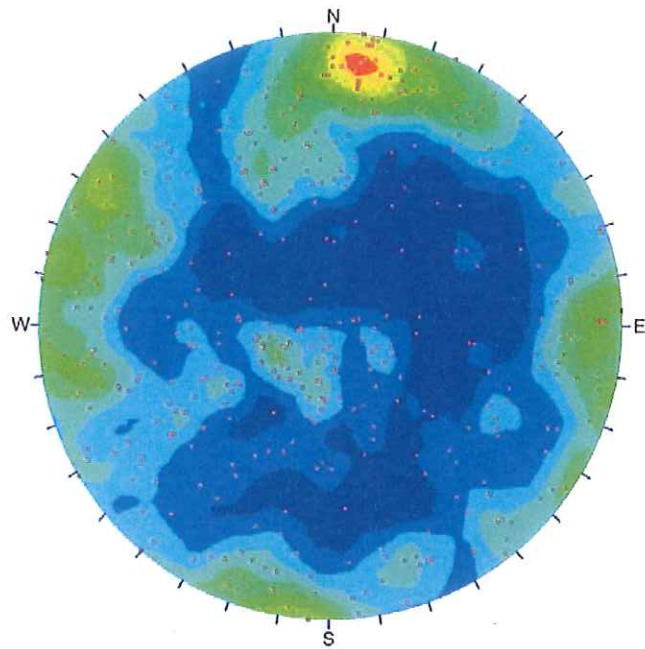


Redcliffs School image pair 5: Structural data – July 19 2011





Redcliffs School: All image pairs combined together, July 19 2011

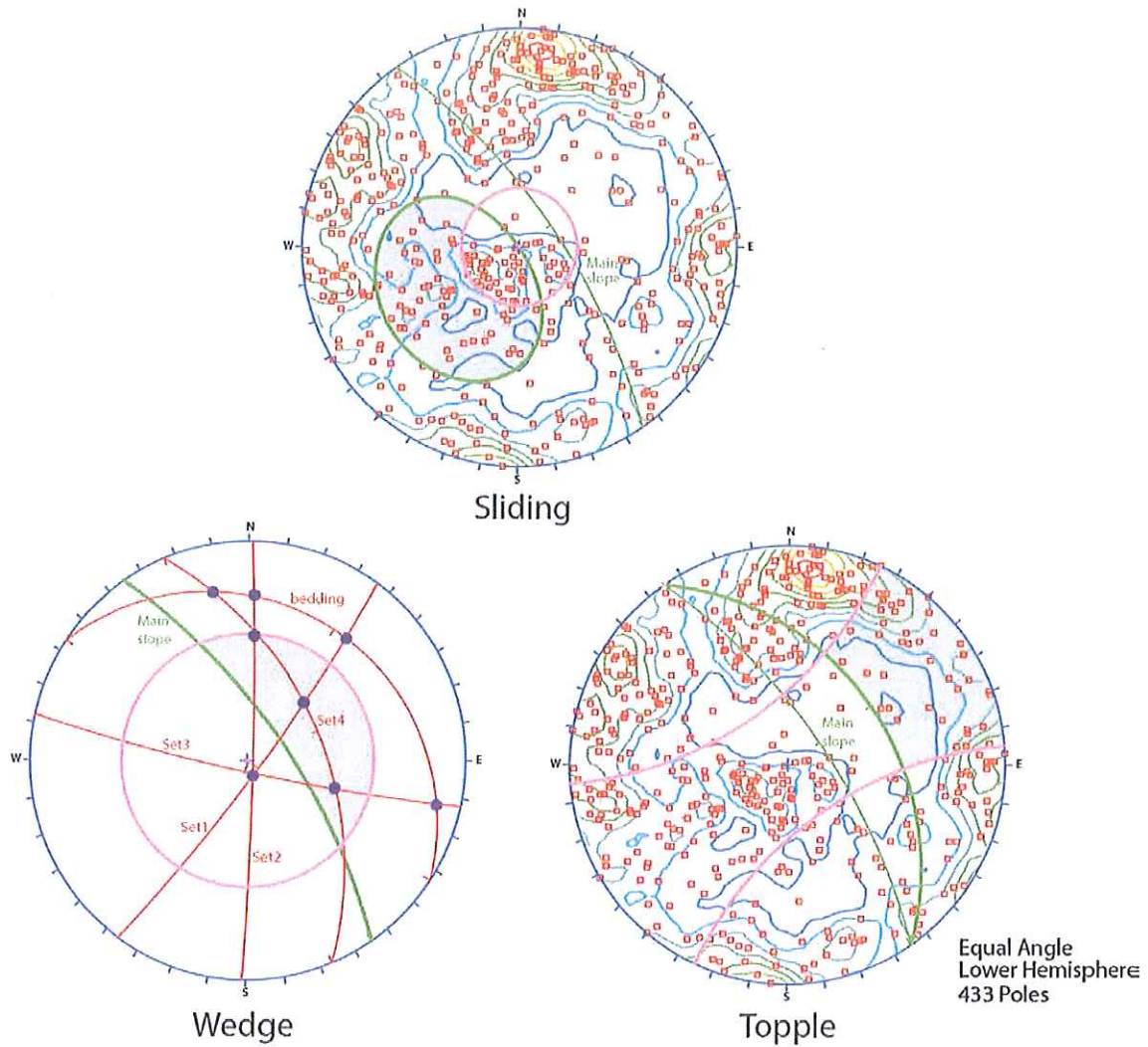


Poles

Equal Angle
Lower Hemisphere
433 Poles
433 Entries

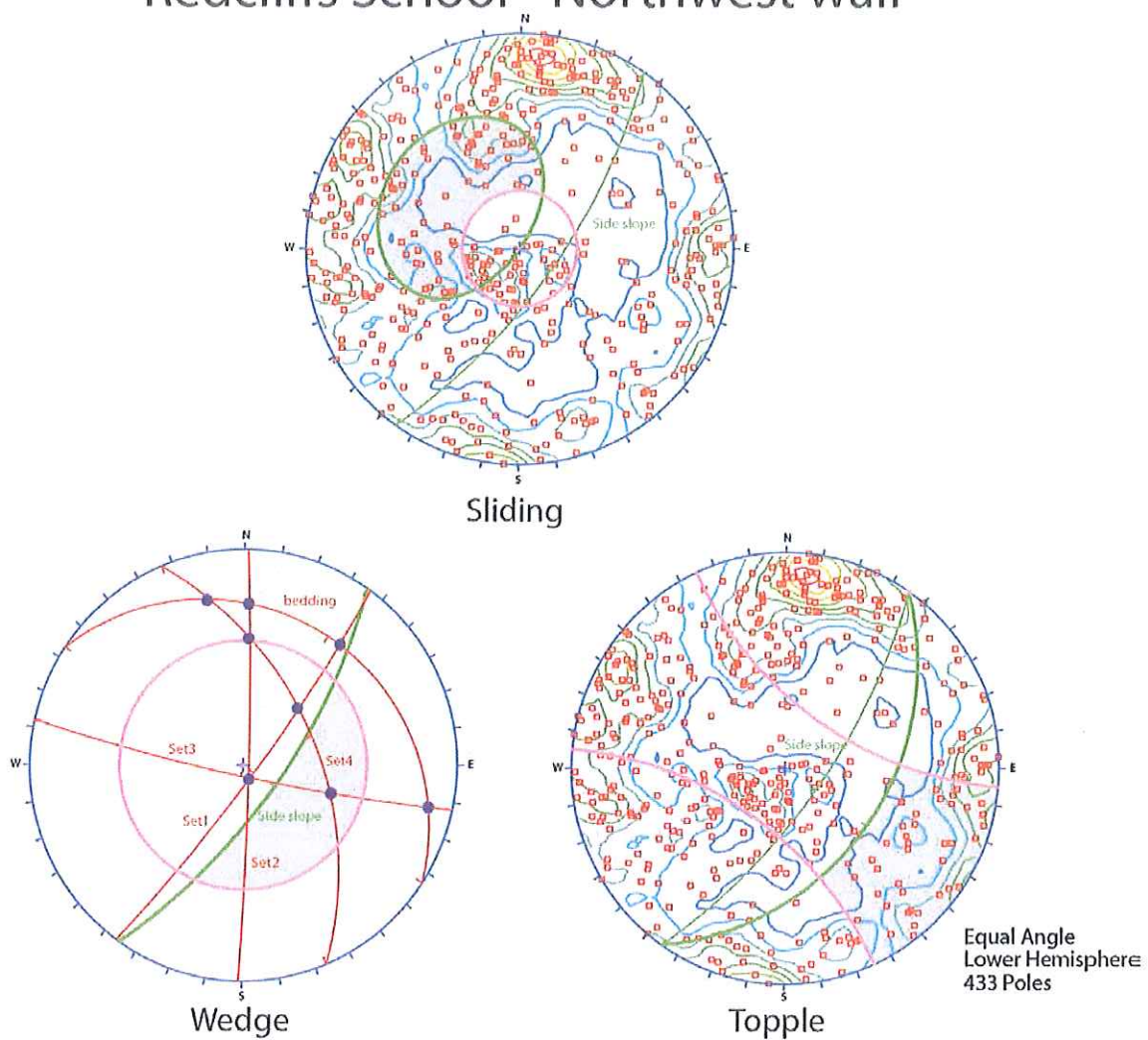
Preliminary kinematic analysis of the Redcliffs School. Assumed slope of $70^{\circ}/055^{\circ}$ (dip/dip direction) and friction angle of 30° .

Redcliffs School - Southwest wall



Preliminary kinematic analysis of the Redcliffs School. Assumed slope of 70°/125° (dip/dip direction) and friction angle of 30°.

Redcliffs School - Northwest wall





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