



Prepared data context sheet: Dixon Canyon, Colorado

Kate Shervais (UNAVCO) and Chris Crosby (UNAVCO)

Dixon Canyon has a clearly exposed outcrop for sequence stratigraphic analysis. The site contains many parasequences students may map in on the TLS data. The rocks are from the Lower Cretaceous Dakota Group – clastic sedimentary rocks ranging from fine-grained mudstones to coarse sandstone. Have students measure the beds to create a geologic history based on timing calculated from the deposition rate. Use a deposition rate of 200 ka for each parasequence. Values for the Front Range vary, so this value is an estimate.

Location: Fort Collins, near Horsetooth Reservoir

<https://www.google.com/maps/place/3754+Dixon+Canyon+Rd,+Fort+Collins,+CO+80526/@40.5489916,-105.1475622,17z/data=!3m1!4m7!1m4!3m3!1s0x87694971271e9acd:0xff8daff1e40188da!2sDixon+Canyon+Rd,+Fort+Collins,+CO+80526!3b1!3m1!1s0x876949725f5b8373:0x415bb40943364302>

Dataset Details:

Appropriate for exercises: Unit 2 and Unit 5

Date collected: 3/11/2016

Instrument: Canon Powershot SX230 camera on a pole

Processing information: Images only

Complete archived dataset: N/A

References: http://pubs.usgs.gov/imap/855/G/i-855-g_v1.1.pdf