

Chisholm & Waters (PYGS) 2012 figures

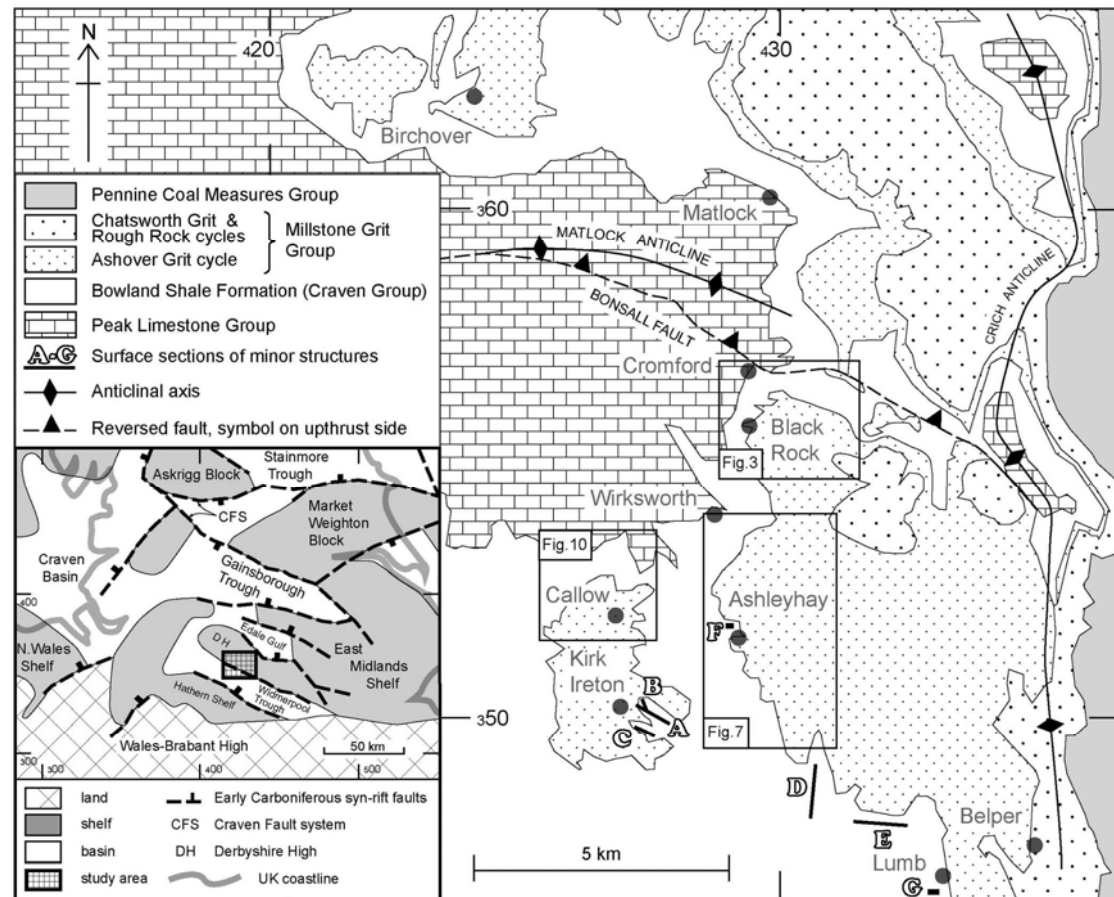


Figure 1. Bedrock geology of the study area, based on BGS mapping (igneous and post-Carboniferous rocks not shown). Slide structures are present at Black Rock, Ashleyhay and Callow, and shown in Figures 3, 7 and 10. Minor structures described in text are exposed at Localities A-G. Inset map: basement structure of surrounding area, based on Waters et al. (2009, figure 1).

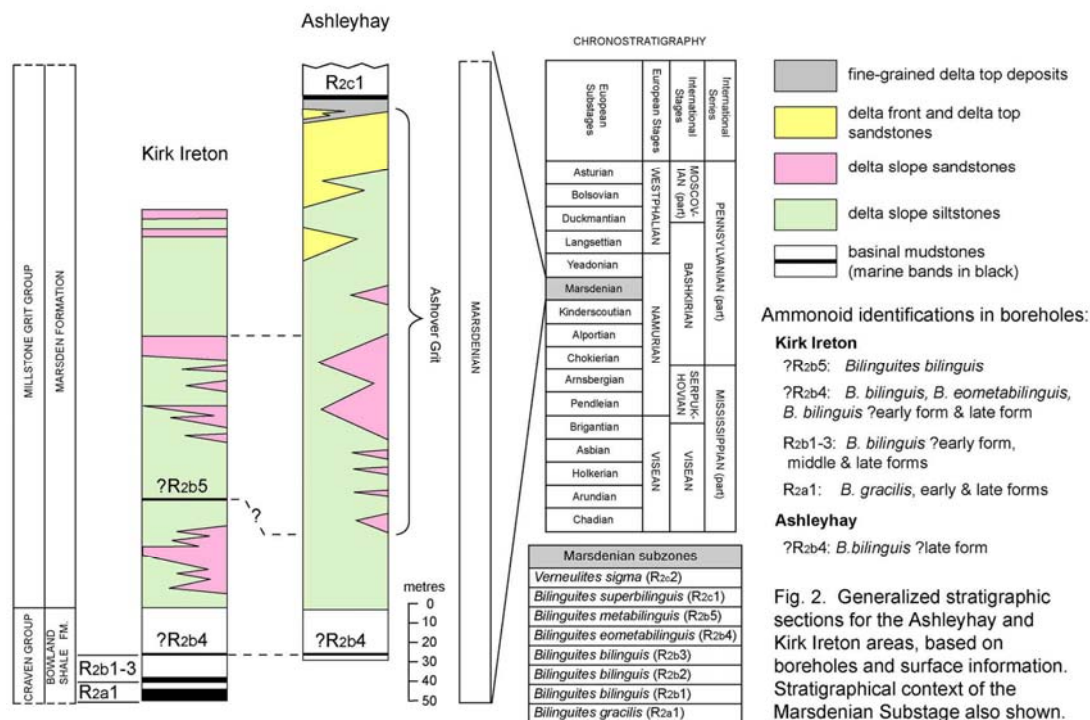


Figure 2

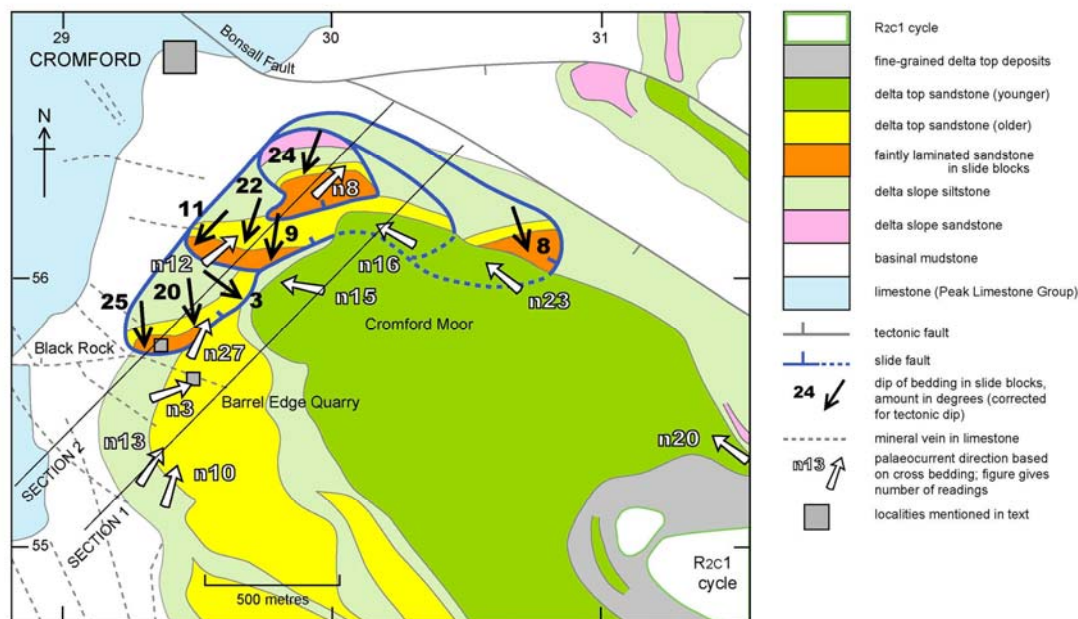


Figure 3

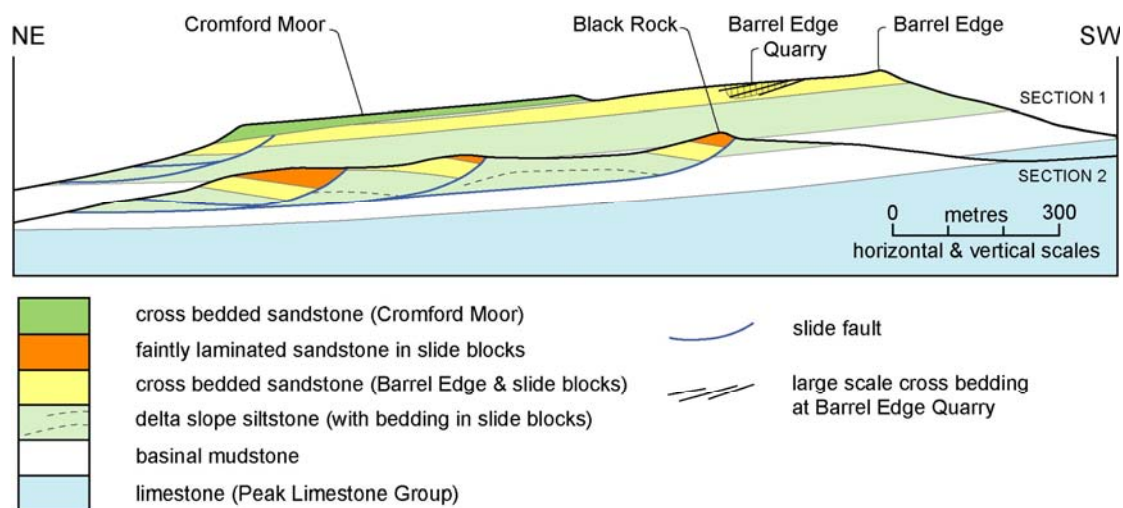


Figure 4. Scale sections around Black Rock, superimposed to show relationship of stratigraphy in slide blocks to that of footwall. Lines of section shown in Figure 3. View is to SE, to match orientation of Figure 5.

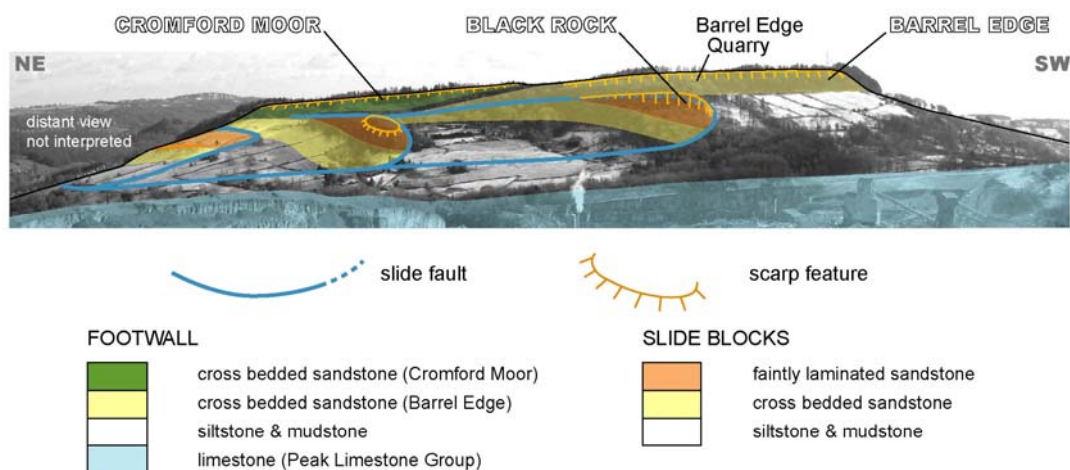


Figure 5. Panoramic view of Black Rock area, from viewpoint (SK 282 566) above Dene Quarry. Vertical scale exaggerated by about 30%.

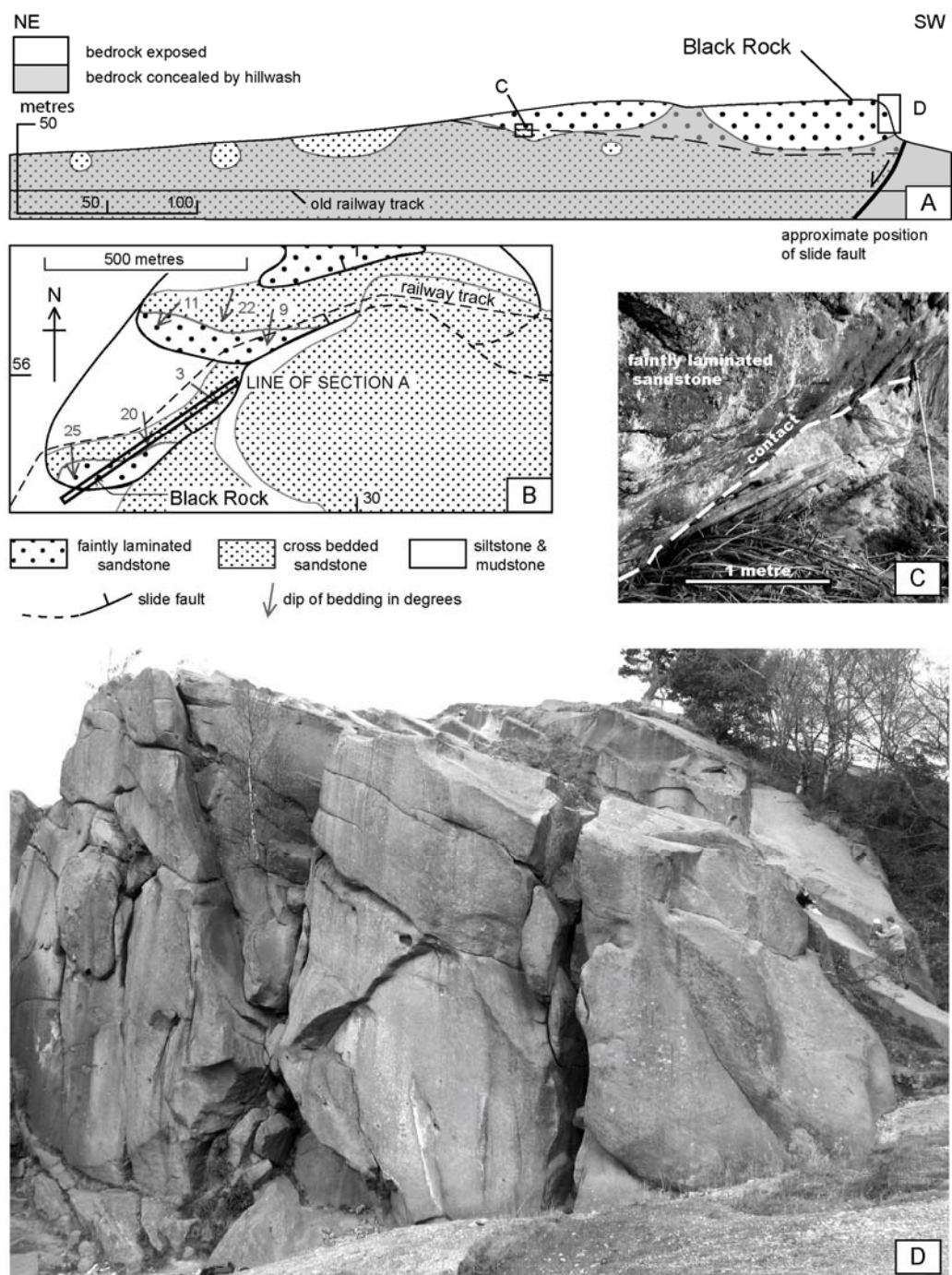


Figure 6



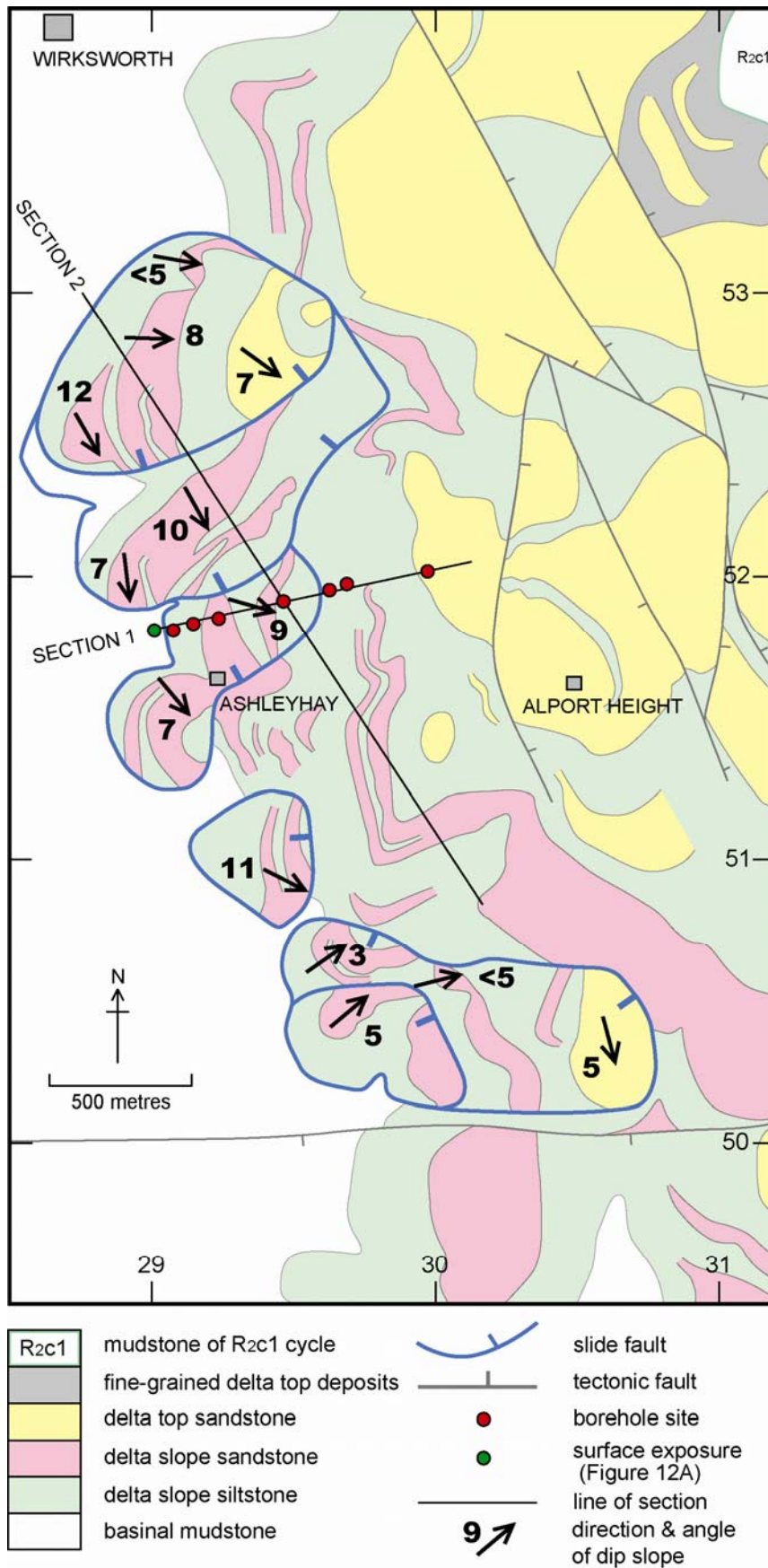


Figure 7

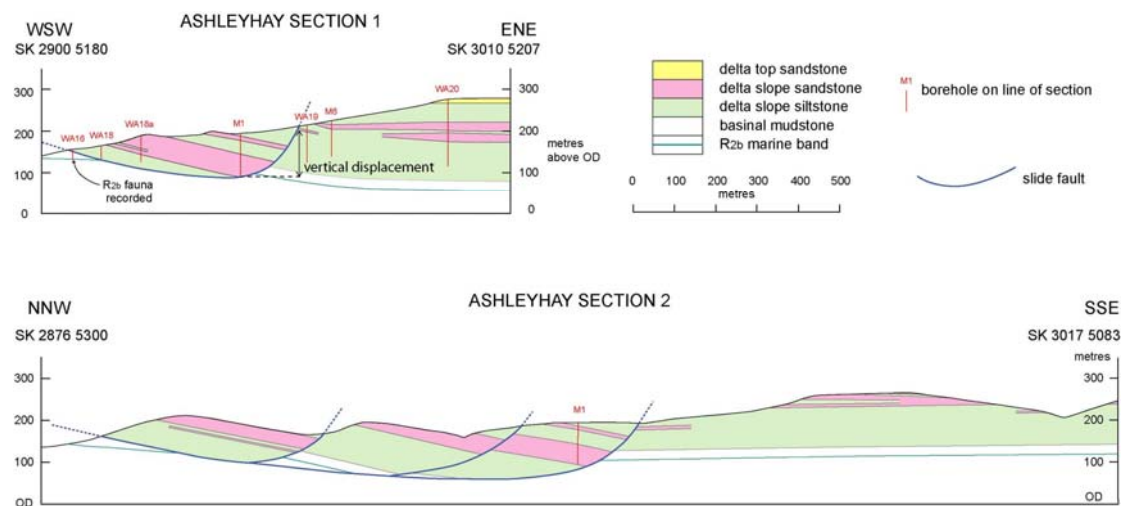


Figure 8. Scale sections through the Ashleyhay area. Location of sections shown in Figure 7.

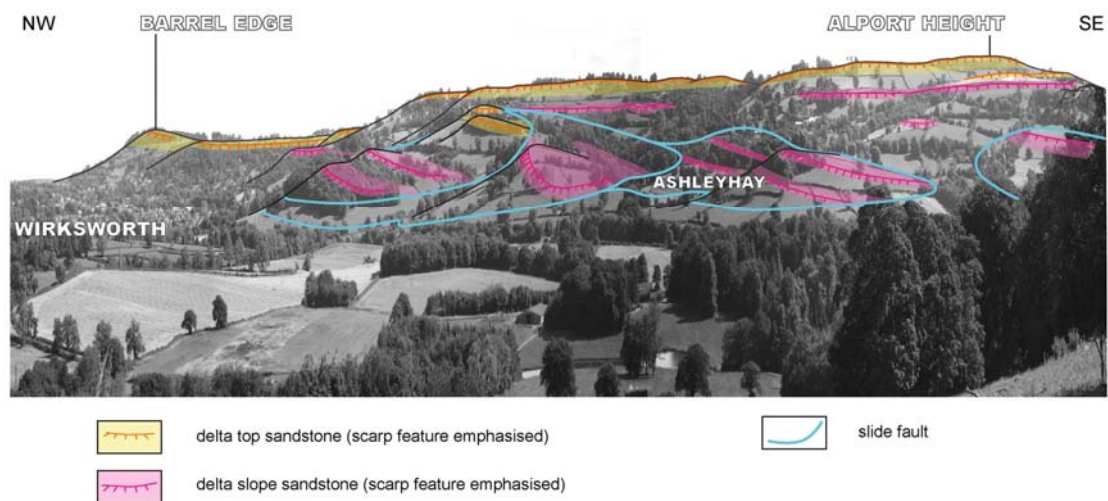


Figure 9. Ashleyhay slides seen from viewpoint at SK 2751 5062 on west side of Ecclesbourne Valley. Not all sandstones are shown. Vertical scale exaggerated by about 50%, to emphasize the sandstone dip slopes. The Black Rock slides are hidden behind the scarp of Barrel Edge.

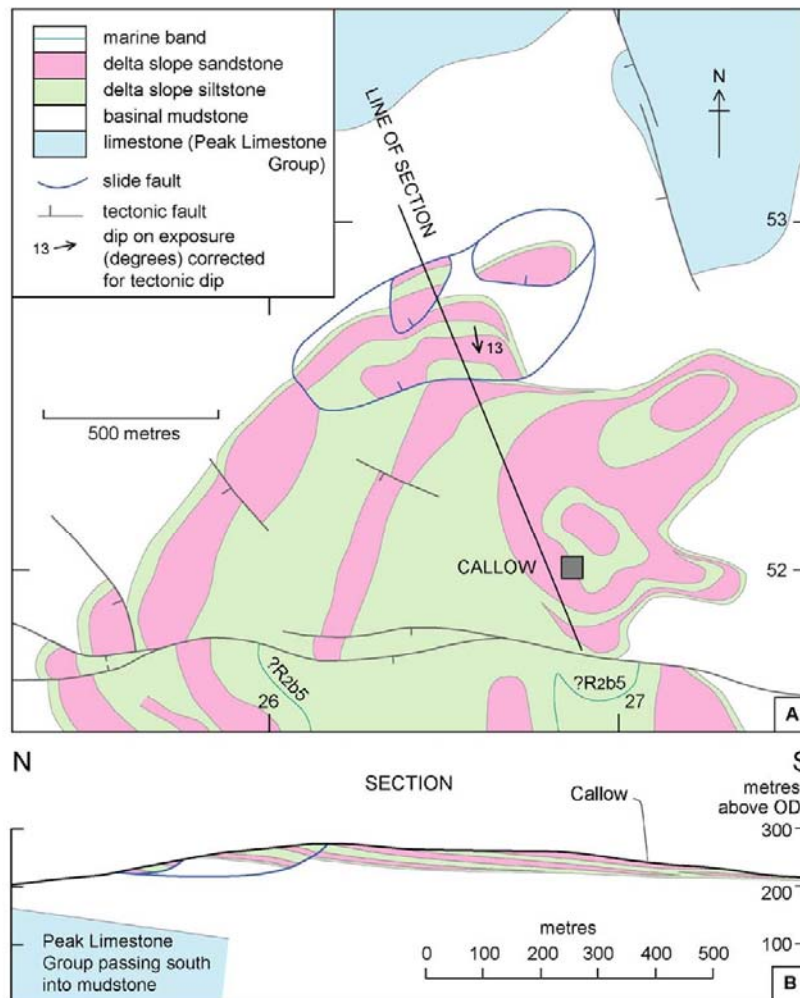


Figure 10. Simplified map (A) and section (B) showing geology of the north part of the Kirk Ireton outlier. For explanation of stratigraphy see text and Figure 2.

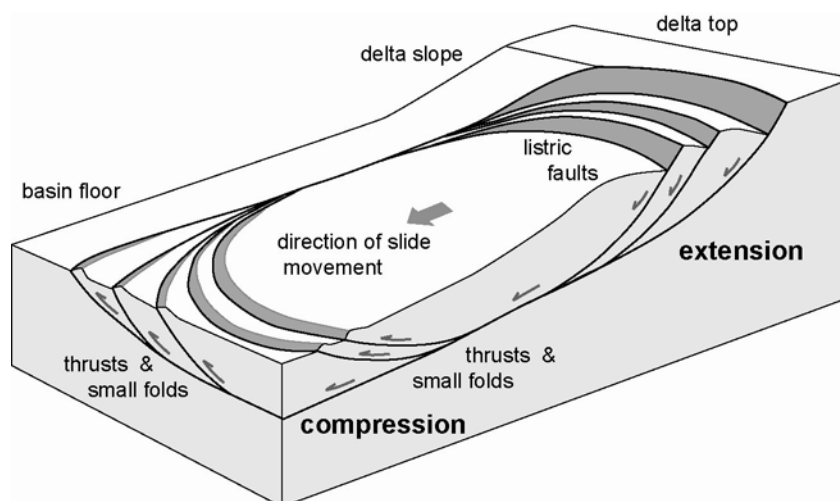


Figure 11

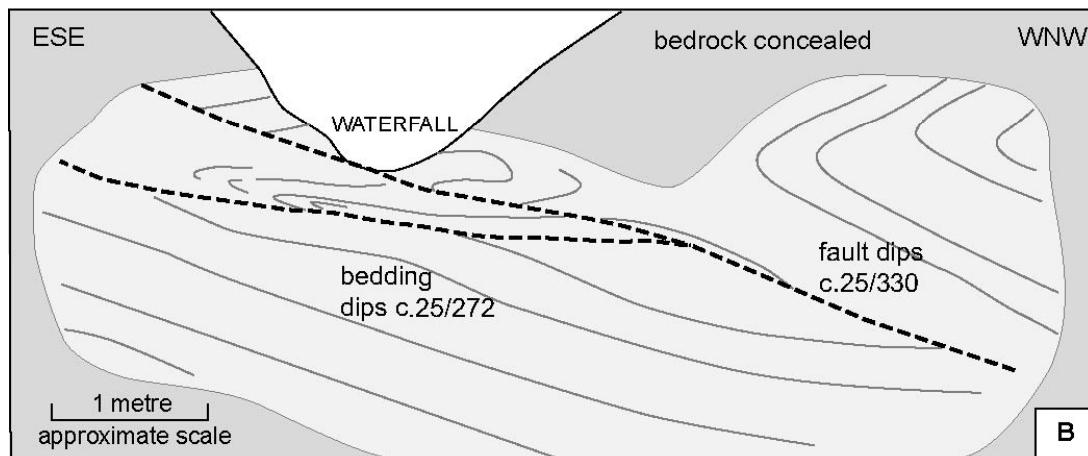
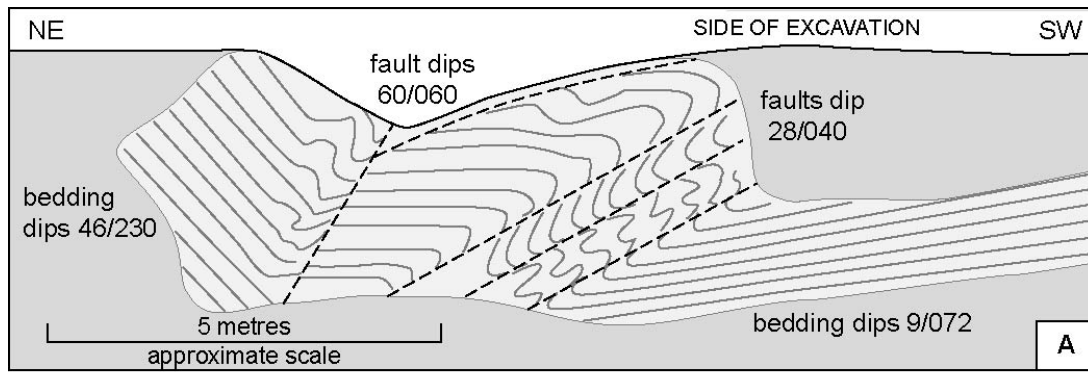


Figure 12. Sketches of surface sections showing compressional structures in basinal mudstone below the Ashover Grit.

A. South side of an excavation (SK 2904 5182) near Ashleyhay (Figures 1F & 8).

B. South side of a ravine (SK 2720 5020) near Kirk Ireton (Figure 1B).



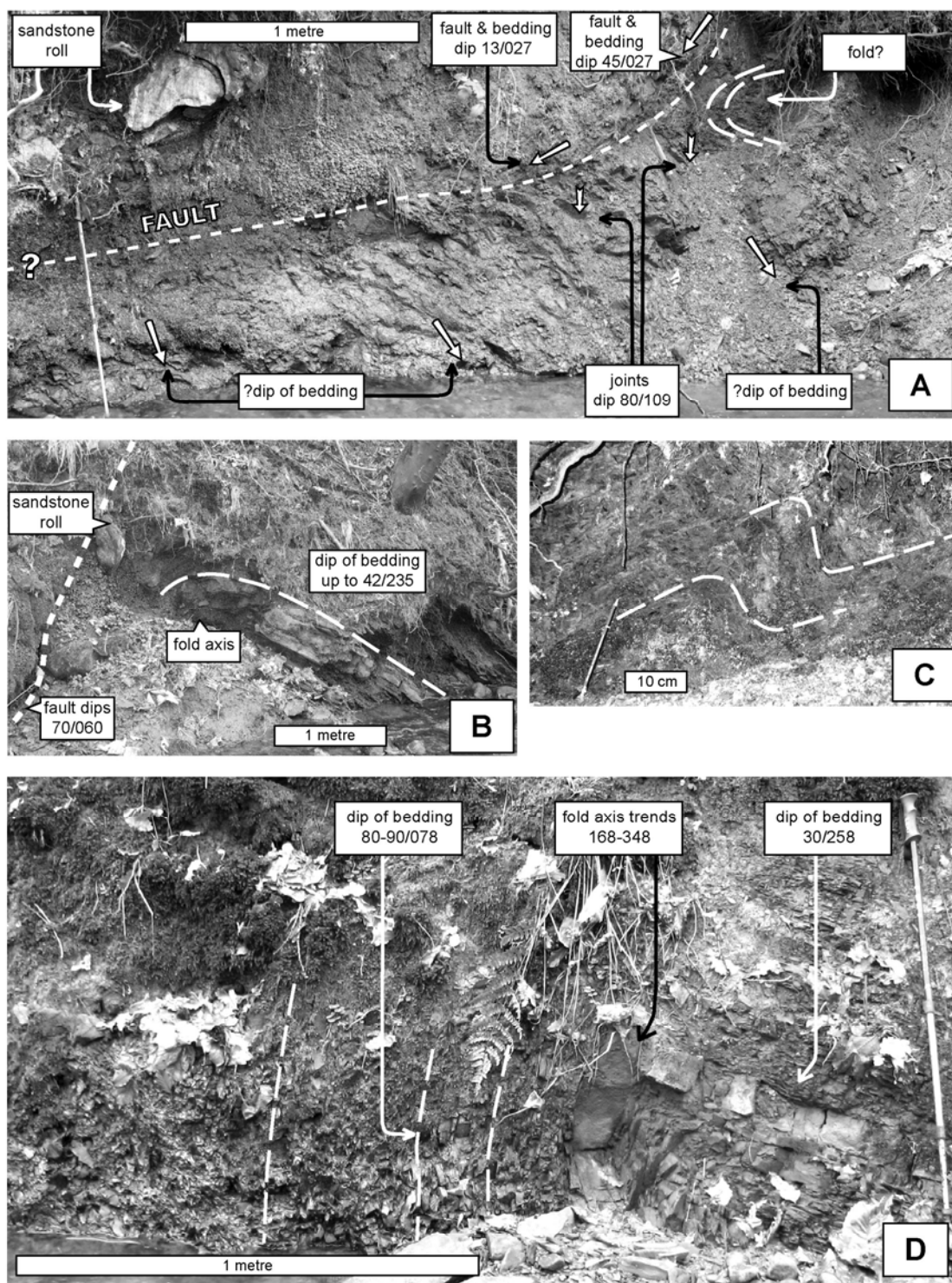


Figure 13. Minor structures in stream sections below the slope sandstones. Scale bars are approximate. Long dashed lines emphasise bedding, short dashed lines are faults. See text for discussion.

A. Franker Brook (SK 3060 4853), view to southeast: juxtaposition of different states of compaction.

B. Franker Brook (SK 3056 4843), view to southeast: juxtaposition of different states of compaction.

C. Lumb Brook (SK 3309 4662), view to southeast: asymmetrical folds.

D. Stream near Kirk Ireton (SK 2754 5007), view to southwest: asymmetrical fold with vergence to ENE.

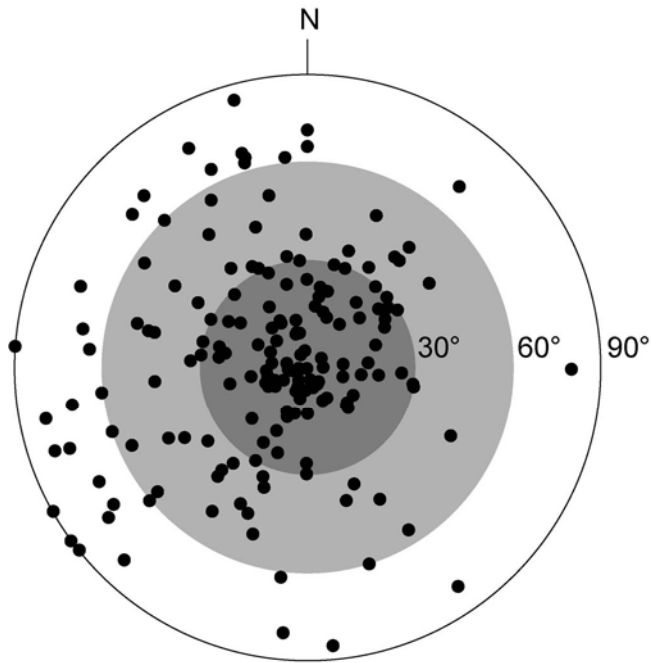


Figure 14. Stereoplot of poles to bedding dips from stream sections in lower part of delta slope at Kirk Ireton (Figure 1, A-C), Franker Brook (Figure 1, D) and Shipley Brook (Figure 1, E). Dips between 0 and 30° are almost randomly distributed but dips between 60° and 90° tend in a generally eastward direction.