

OR/14/027 Model limitations

From Earthwise

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Hulbert A G, Terrington R L. 2015. Metadata report for the south-west Pennine Basin and adjacent area 1:250 000 resolution geological model. *British Geological Survey Internal Report*, OR/14/027.

The modelled surfaces were directly constructed from the structural contours from the south- west Pennines Subsurface Memoir and then warped to fit boreholes. This may result in the modelled surface not matching the original structure contours.

A number of changes/improvements were made to the fault pattern as seen in the subsurface memoir. This was due to the connectivity between faults for different surfaces becoming more apparent in 3D space. This may result in the modelled fault network not matching the original 2D fault patterns.

As part of the modelling process, crossovers may occur between the surfaces. Some of these are directly the result of contours overlapping in vertical space. These have been resolved wherever possible but still may exist in some places.

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