

OR/14/039 Metadata

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Mathers, S J, Terrington, R L, Waters, C N, and Thorpe S. 2014. The construction of a bedrock geology model for England and Wales. *British Geological Survey Internal Report*, OR/14/039.

Data sources consulted and decisions made in section construction were recorded in the specially designed Cross-Section Metadata Recording Database using MsAccess (Figures 16–18). This was formerly known as the GB3D Section Tracker (Mathers et al. 2014^[1]). Figure 16 shows the main input form where all metadata details are held. Figure 17 shows a close up example of the diary entries (total over 2150) made for each individual cross-section, and Figure 18 shows part of the extensive list of sources consulted. The sources were recorded section by section, there are 943 individual sources cited in this database including existing models, cross-sections, structural contour maps, scientific papers and BGS reports. The database also records the QA and approval decisions section by section.

The database is dynamically updated and can be utilised by all the participating geologists simultaneously. It can be made available as required as an MSAccess database.

Figure 16 Cross-Section Metadata Recording Database main input form.

Diary Style Metadata Entries			
Staff Name	Date	Section Location	Description of Change
Colin Waters	13/02/2014	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\GB3D_COMBINED\GB3D_NDA_V8_51_CNW_Regions.gsjpr	West Newton, Stonehaugh, Longhorsley were interpreted hung on the DTM, giving very slightly incorrect levels which had to be redrafted using
Colin Waters	04/02/2014	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\GB3D_COMBINED\GB3D_NDA_V8_41_CNW_Regions.gsjpr	Converted AG-LSSA_2 to AG-LSSA to agree with crossing sections 132 & 149- the Whin Sill isn't present here so the former term isn't necessary.
Mark Barron	23/01/2014	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\GB3D_COMBINED\GB3D_NDA_V8_32_jurAJMB_Regions.gsjpr	Checked LEX-RCS coding and cross-snapping throughout for LI-MSLS.
David Millward	15/11/2013	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\Region_7_Northern_England\GB3D_NDA_V7_21_Region_7_V2_13.gsjpr	Added OMS and CSA (as WLSF) to Solway Basin using Sillioth borehole. Lateral extent of SSG subdivisions within Solway Basin poorly constrained
David Millward	05/11/2013	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\Region_7_Northern_England\GB3D_NDA_V7_21_Region_7_V2_13.gsjpr	Solway Basin structure guided by Northumb-Solway memoir and west Cumbria models, with control from boreholes. Thickness of Border Group
David Millward	11/09/2013	W:\Teams\NGM\Models\Data\GB3D\DATA\GS13D_Data\Region_7_Northern_England\GB3D_NDA_V7_21_Region_7_V2_13.gsjpr	Bank End Maryport and Westnewton boreholes: from Chadwick et al, reclassified to new Carboniferous stratigraphy scheme (Waters et al 2007).

Figure 17 Example diary entries for one individual cross-section.



Figure 18 The sources used in individual section construction pull down list with 943 entries.

References

1. [↑](#) Mathers, S J, Terrington, R L, Waters, C N, and Leslie, A G. 2014. GB3D — a framework for the bedrock geology of Great Britain. *Geoscience Data Journal* 3, 9. <http://onlinelibrary.wiley.com/doi/10.1002/gdj3.9/full>

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