Digital maps and logs
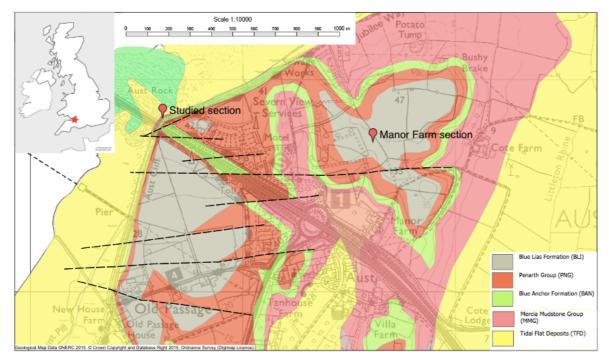
Maps

1. Go to Digimap at https://digimap.edina.ac.uk
2. Select 'Geology' and 'Geology Roam'
3. Sign in through 'University of Bristol'
4. Zoom in to your area, and move image around to get right magnification and right frame.
5. Select 'print' icon and check area covered in 'Layout preview'. Complete details in dialogue boxes to the left.
6. Select 'Add Legend' and hit 'Generate Print File'.
7. Open the two pdf files in your drawing package, the map and the legend.
8. Here's an example where we removed the Digimap logo, frame, and other external details.
9. We moved the scale bar into the frame – it can be set on a white rectange.
10. Add small locational map if relevant.
11. Mark locations (can be done with online Digimap tools, or after download).
12. The symbol key can be added to the side, or over a white rectangle within the map frame (as here). Note – arrange stratigraphic units in order, from youngest at the top downwards to oldest unit.

Sedimentary logs

1. Download SedLog at http://www.sedlog.com – it's available in PC and Mac versions. When it downloads, it may request you load Java as well – do so, if requested.
2. Make an Excel file of your log, oldest bed at the top of the list, and in sequence from bottom upwards.

3. The Excel sheet has columns for key aspects, such as thickness of bed (cm), nature of base boundary, lithology type, grain size, sedimentary strictures, fossils, notes, etc.

THICKNESS (	BASE BOUNI	LITHOLOGY	GRAIN SIZE I	SYMBOLS IN	SYMBOLS/S1	NOTES COLU	BIOTURBATION TYPE
100	<none>	Limestone	vf	<none>	Gastropods	Gastropods	<none>
45	Sharp	Shale	clay	<none>		Dark	Moderate bioturbation
45	Erosion	Conglomerat	pebble	<none>		Polymict	<none>
135	Gradational	Sandstone	vc	Trough cross bedding		60 cm sets	<none>
65	Gradational	Sandstone	m	Planar cross bedding			<none>
50	Gradational	Sandstone	f	Current ripple cross-lamination			<none>
60	Sharp	Siltstone	silt	<none>	Roots	thin, fine sar	<none>
35	<none>	Coal	<none>	<none>		coal	<none>
65	Sharp	Siltstone	clay/silt	<none>	Plant material		<none>

4. Exact terms can be checked in the examples provided.
5. Save the Excel file in comma-separated version (.csv)
6. Open SedLog.jar
7. File/ Import Log from CSV file
8. Choose file, and select 'Custom importing'
9. Match your columns to the named columns (including 'Lythology' for Lithology
10. Hit 'OK'
11. Then work through the diagram bed by bed (highlight in red) and use the 'bed-tick' icon at the top to highlight and choose lithology ornament (tick 'Symbols in Bed' 'Use Lithology 1' to get ornament across the vertical stack and the right-hand projection of the graphic log.
12. Export log as pdf.
13. Here's an example (right). This can then be taken into a drawing package to remove guide lines, tidy up the notes text, add colour to the ornament etc.