

Tables

(Table 1.1) A comparison of the major features which give the individual character to each main karst region of Britain

Region	Yorkshire Dales ¹	Northern Pennines ²	Peak District	Mendip Hills	South Wales	Rest of Britain ³
<i>Geology</i>						
Karst area ⁴	320 km ²	220	420 km ²	110 km ²	220 km ²	9000 km ² (mostly chalk)
Karst reliefs	270 m	70 m	260 m	260 m	330 m	200 m (chalk)
Limestone thickness ⁶	200 m	40 m	400 m	700 m	150 m	200 m (chalk)
Typical dip	1°	1°	5°	30°	10°	Varies between areas
Last glaciation	Devensian	Devensian	Anglian ⁷	None	Devensian	Varies between areas
<i>Karst⁸</i>						
Glaciokarst	***	**				* (Scotland) ⁹
Fluviokarst			**	**		** (chalk)
Interstratal karst			*		**	
Pavement area ¹⁰	677 ha	613 ha	0	0	8 ha	28 ha (Scotland, North Wales)
Dry valleys	*		**	*	*	** (chalk)
Karst gorges	**	*	*	**		
Collapse features	*		*			
Doline fields	**				**	** (covered chalk)
Ephemeral lakes					*	* (chalk)
Polygonal karst	*			*		

- 1 The main southern Dales area on the Askrigg Block, including Dentdale, and excluding Nidderdale.
 - 2 Including Nidderdale, the karst east of Morecambe Bay, and the eastern fringe of the Lake District.
 - 3 Mostly the weakly cavernous karst of the chalk and oolitic limestones; including the cavernous karst of Devon, Forest of Dean, North Wales and Scotland.
 - 4 Approximate area of karstic landscapes; does not include all the limestone outcrops.
 - 5 Approximate values for the local relief within the limestone, which dictates the maximum descent from sink to rising, added to any depth of karstification beneath the resurgence level.
 - 6 Geological data are generalized for purposes of comparison.
 - 7 Or possibly Wolstonian — see text.
 - 8 Most karst features are found to some extent in all the main karst regions, but their importance is assessed in relative terms:
- * = significant, but minor;
- * * = important and widespread;
- * * * = internationally important.
- 9 Location of the major features noted in parentheses.
 - 10 From Ward and Evans (1976).

[Part 2]

Region	Yorkshire Dales ¹	Northern Pennines ²	Peak District	Mendip Hills	South Wales	Rest of Britain ⁵
Famous sites	Malham Tove Gaping Gill	Hutton Roof Crag	Dove Dale Peak Cavern	Cheddar Gorge Wookey Hole	Dan-yr-Ogof Porth-yr-Ogof	
Caves						
Major passage types	Vadose joint shafts, phreatic on bedding	Joint mazes	Phreatic on veins and bedding	Downdip phreatic loops	Downdip vadose, strike phreatic	Vary between areas
Number of caves ¹¹	1420	620	210	220	270	410
Total cave length ¹¹	325 km	65 km	50 km	55 km	195 km	45 km
Caves over 1 km long	50	9	9	10	12	6
Longest caves ¹²	Ease Gill System 71 (km)	Goyden Pot 6	Peak-Speedwell System 14	Swildon's Hole 9	Ogof Ffynnon Ddu 50	Slaughter Cave 11 (Forest of Dean)

	Kingsdale System	24	Knock Fell Caverns	5	Giants Hole	5	St Cuthbert's Swallet	Ogof Draenen	48	Ogof Llyn Parc	4	(North Wales)
	Gaping Gill System	18	Fairy Hole	4	Bagshaw Cavern	4	Wookey Hole	Ogof Agen Allwedd	34	Uamh Claonaite	3	(Scotland)
	Ireby-Notts System	12	Devis Hole	2	Carlswark Cavern	2	Gough's Cave	Ogof Daren Cilau	30	Ogof Llyn Du	2	(North Wales)
Deepest caves ¹²	Ease Gill System	211	Goyden Pot	61	Giants Hole	214	Eastwater Cavern	Ogof Ffynnon Ddu	308	Ogof Llyn Parc	115	(North Wales)
	Meregill Hole	206	Scrafton Pot	44	Masson Cavern 1	90	Longwood Swallet	Ogof Daren Cilau	217	Slaughter Cave	99	(Forest of Dean)
	Pen y ghent Pot	196	Pate Hole	33	Peak-Speedwell System	184	Swildon's Hole	Ogof Agen Allwedd	177	Cnoc nan	90	(Scotland)
	Gaping Gill System	195	Ayleburn Mine Cave	30	Nettle Pot	180	Manor Farm	Ogof Dan-yr-Ogof	151	Ogof Hesp Alyn	90	(North Wales)

11 Recorded caves longer or deeper than 5 m; figures rounded to nearest 10 caves and 5 km of passage; from unpublished database of Limestone Research Group, University of Huddersfield.

12 Subject to continuous revision, as lengths (and less frequently depths) are increased by newly discovered passages or by links found between known caves.

(Table 1.2) The finest examples of individual karst and cave features within the GCR sites of Britain. The listing of features is in the order of their description in Chapter 1. The tabulated data are recognized as being subjective, especially among the important secondary examples, which are not presented in any sequence of merit and are referred to by short versions of their full site titles.

Feature	Prime example	Important examples
<i>Limestone karst</i>		
Dolines	Ingleborough karst	Wurt Pit, Sandpit, High Mark
Dry valley	Lathkill Dale	Cave Dale, Coniston, Malham & Gordale
Karst gorge	Cheddar Gorge	Malham and Gordale, Hell Gill, Winnats
Collapsed cave	Penyghent Gill	God's Bridge, Porth-yr-Ogof
Limestone pavement	Great Asby Scar	Scales Moor, Ingleborough, Gait Barrows
Glaciokarst	Malham & Gordale	Ingleborough, Traligill
Fluviokarst	Manifold Valley	Lathkill Dale, Dove Dale
Polygonal karst	High Mark	Brimble & Cross
Interstratal karst	Mynydd Llangynidr	Draenen, Nidderdale, Llangattwg
Fossil karst	Green Lane Pits	Masson Hill, Pikedaw
<i>Limestone caves</i>		
Deep phreatic	Wookey Hole	Ease Gill, Cheddar
Shallow phreatic	Kingsdale caves	Ingleborough
Abandoned phreatic	Dan-yr-Ogof	Alyn Gorge, Ingleborough, Castleton, Llangattwg, Minera, Priddy, Sleets Gill
Maze cave	Knock Fell Caverns	Mossdale and Langcliffe, Hale Moss
Vadose canyons	Ease Gill Caves	Ogof Ffynnon Ddu, Castleton

Vadose shafts	Ingleborough caves	Ease Gill, Brants Gill, Buttertubs
Calcite deposits	Otter Hole	St Dunstan's, Boreham, Dan-yr-Ogof
Dated sediments	Charterhouse caves	Cheddar, Trailigill, Ease Gill
<i>Chalk karst</i>		
Dolines	Cull-pepper's Dish	Devil's Punchbowl, Castle Lime Quarry
Dry valleys	Millington Pastures	Manger, Devil's Dyke
Cave	Beachy Head Cave	Water End
<i>Salt karst</i>		
Subsidence	Moston Long Flash	Rostherne

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Interstratal karst			•			
Pavement area ¹⁰	677 ha	613 ha	0	0	8 ha	28 ha (Scotland, North Wales)
Dry valleys	•		••	••	•	•• (chalk)
Karst gorges	••	•	•	••		
Collapse features	•		•			
Doline fields	••				••	•• (covered chalk)
Ephemeral lakes					•	• (chalk)
Polygonal karst	•			•		
<i>Famous sites</i>	Malham Cove Gaping Gill	Hutton Roof Crags	Dove Dale Peak Cavern	Cheddar Gorge Woolkey Hole	Dan-yr-Ogof Porth-yr-Ogof	
<i>Caves</i>						
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Longest caves ¹² (km)	Ease Gill System 71 Kingsdale System 24 Gaping Gill System 18 Ireby-Notts System 12	Goyden Pot 6 Knock Fell Caverns 5 Fairy Hole 4 Devils Hole 2	Peak-Speedwell System 14 Giants Hole 5 Bugshaw Cavern 4 Carbawark Cavern 2	Swildon's Hole 9 St Cuthbert's Swallet 7 Woolkey Hole 4 Gougol's Cave 2	Ogof Ffynnon Ddu 50 Ogof Draenen 48 Ogof Ageri Albweidd 34 Ogof Daren Cilau 30	Slaughter Cave 11 (Forest of Dean) Ogof Llyn Parc 4 (North Wales) Uamh an Claonaite 3 (Scotland) Ogof Llyn Du 2 (North Wales)
Deepest caves ¹² (m)	Ease Gill System 211 Meregill Hole 206 Pen y ghent Pot 196 Gaping Gill System 195	Goyden Pot 61 Scriffon Pot 44 Pate Hole 33 Ayleburn Mine Cave 30	Giants Hole 214 Masson Cavern 1 90 Peak-Speedwell System 184 Nentle Pot 180	Eastwater Cavern 180 Longwood Swallet 175 Swildon's Hole 167 Manor Farm 151	Ogof Ffynnon Ddu 508 Ogof Daren Cilau 217 Ogof Ageri Albweidd 177 Dan-yr-Ogof 140	Ogof Llyn Parc 115 (North Wales) Slaughter Cave 99 (Forest of Dean) Cnoc nam Lianh 90 (Scotland) Ogof Hesp Alyn 90 (North Wales)

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