## **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 <sup>1</sup>	Northern Pennines <sup>2</sup>	Peak District	Mendip Hills	South Wales	Rest of Britain <sup>3</sup>
Geology						•
Karst area <sup>4</sup>	320 km <sup>2</sup>	220	420 km <sup>2</sup>	110 km <sup>2</sup>	220 km <sup>2</sup>	9000 km <sup>2</sup> (mostly chalk)
Karst reliefs	270 m	70 m	260 m	260 m	330 m	200 m (chalk)
Limestone thickness <sup>6</sup>	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 <sup>7</sup>	None	Devensian	Varies between areas
Karst <sup>8</sup>						
Glaciokarst	* * *	* *				* (Scotland) <sup>9</sup>
Fluviokarst			* *	* *		* * (chalk)
Interstratal kars	t		*		* *	
Pavement areal <sup>10</sup>	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 lake	S				*	* (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 <sup>1</sup> Malham	Northern Pennines <sup>2</sup>	Peak District Dove	Mendip Hills Cheddar	South Wales	Rest of Britain <sup>5</sup>	
Famous sites		Hutton Roof Crags	Dale Peak Cavern	Gorge Wookey Hole	Dan-yr-Ogof Porth-yr-Ogof		
Caves							
Major passage types	Vadose joint shafts, e phreatic on bedding	Joint mazes	Phreatic on veins and bedding	Downdip phreatic loops	Downdip vadose, strike phreatic	Vary between areas	
Number	r						
of caves <sup>11</sup> Total	1420	620	210	220	270	410	
cave length <sup>1</sup>	325 km 1	65 km	50 km	55 km	195 km	45 km	
Caves over 1 km long	50 J	9	9	10	12	6	
Longes	(4111 / 1	Goyden Pot	Peak-Speedwell 14 System	Swildon's 9 Hole	Ogof Ffynnon 50 Ddu	Slaughter 11 Cave	(Forest of Dean)

	Kingsda System	le 24	Knock Fell Caverns	5	Giants Hole	5	St Cuthbert's Swallet	Ogof Draener	.48 1	Ogof Llyn Parc	4	(North Wales)
	Gaping Gill System	18	Fairy Hole	4	Bagshav Cavern	w 4	Wookey Hole	Ogof Agen Allwedd	34	Uamh an Claonait	3 te	(Scotland)
	Ireby-No System	otts 12	Devis Hole	2	Carlswa Cavern	rk 2	Gough's Cave	Ogof Daren Cilau	30	Ogof Llyn Du	2	(North Wales)
Deepest	7.2 dH	211	Goyden Pot	61	Giants Hole	214	Eastwater 180 Cavern	Ogof Ffynnon Ddu	308	Ogof Llyn Parc	115	(North Wales)
	Meregill Hole	206	Scraftor Pot	1 44	Masson Cavern 1		Longwood 175 Swallet	Ogof Daren Cilau	217	Slaughte Cave	er 99	(Forest of Dean)
	Pen y ghent Pot	196	Pate Hole	33	Peak-Sp System	peedwell 184	Swildon's 167 Hole	Ogof Agen Allwedd	177	Cnoc nan Uamh	90	(Scotland)
	Gaping Gill System	195	Aylebur Mine Cave	n 30	Nettle Pot	180	Manor 151 Farm	Dan-yr-0	Olg40i	Ogof Hesp Alyn	90	(North Wales)

<sup>11</sup> 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.

(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
Limestone karst		
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
Limestone caves		
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

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

Vadose shaftsIngleborough cavesEase Gill, Brants Gill, ButtertubsCalcite depositsOtter HoleSt Dunstan's, Boreham, Dan-yr-Ogof

Dated sediments Charterhouse caves Cheddar, Traligill, Ease Gill

Chalk karst

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

Salt karst

Subsidence Moston Long Flash Rostherne

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Grology Karst area <sup>6</sup> Karst relief <sup>6</sup> Limestone thickness <sup>6</sup> Typical dip Last glaciation	320 km² 270 m 200 m 1° Devensian	220 70 m 40 m 1° Deversian	420 km <sup>2</sup> 260 m 400 m 5° Anglian <sup>7</sup>	110 km <sup>2</sup> 260 m 700 m 30° None	220 km <sup>2</sup> 530 m 150 m 10° Devensian	9000 km <sup>2</sup> (mostly chalk) 200 m (chalk) 200 m (chalk) Varies between areas Varies between areas
Karaf <sup>6</sup> Glaciokarst Fluviokarst Interstratal karst Pavement area <sup>10</sup>	677 ha	(Scotland) <sup>2</sup> (chalk)		• • (chilk)		
Dry valleys Karst gorges Collapse features				•		• • (chalk)
Doline fields Ephemeral lakes Polygonal karst						(covered chalk)     (chalk)
Famous sites	Malham Cove Gaping Gill	Hutton Roof Crags	Dove Dale Peak Cavern	Cheddar Gorge Wookey Hole	Dan-yr-Ogof Porth-yr-Ogof	137172200
Gares Major passage types Number of caves <sup>11</sup> Total cave length <sup>13</sup> Caves over 1 km long	Vadose joint shafts, phreatic on bedding 1420 325 km. 50	Joint muzes 620 65 km	Phreatic on veits and bedding 210 50 km	Downdip pheratic loops 220 55 km 10	Downdip vadose, strike phreatic 270 195 km	Vary between areas 410 45 km 6
Longest caves <sup>12</sup> (lon)	Ease Gill System 71 Kingsdale System 24 Gapting Gill System 18 Inche-Notts System 12	Knock Fell Caverns 5 Fairy Hole 6	Peak-Speedwell System 14 Giants Hole 5 Bugshaw Cavern 4 Carlswark Cavern 2	St Cuthbert's Swallet 7 Wookey Hole 4	Ogof Draenen 48 Ogof Agen Allwedd 34	Staughter Cave 11 (Forest of Dear Ogof Llyn Pare 4 (North Wales) Uamh an Claonaite 5 (Scotland) Ogof Llyn Du 2 (North Wales)
Deepest caves <sup>12</sup> (m)	Ease Gill System 211 Meregill Hole 206 Pen y ghent Pot 196 Gaping Gill System 195	Scrafton Por 64	Masson Cavern 1 90 Peak-Speedwell System 184	Longwood Swallet 175 Swildon's Hole 167	Ogof Daren Glau 217 Ogof Agen Albwedd 177	Ogof Llyn Parc 115 (North Wales) Slaughter Cave 99 (Forest of Dear Caroc nan Uamh 90 (Scotland) Ogof Hesp Alyn 90 (North Wales)
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adose shafts	Ingleborough caves	Ease Gill, Brants Gill, Buttertubs
Calcite deposits	Otter Hole	St Dunstan's, Boreham, Dan-yr-Ogof
Dated sediments	Charterhouse caves	Cheddar, Traligill, Ease Gill
Chalk karst	n-in-demand-as-a-wein	nt assemblinger of tradforms, adols as
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
Salt karst	ey hestonood tetange year	noted as the best estapping of the fee. of
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