

## Tables

(Table 1.1) Key to the sites shown on (Figure 1.7), including classifications used in (Table 1.2)

Site Name	A	B	C	D	E
1 Corrieshalloch Gorge	4				
2 Falls of Clyde	4,5				
3 River Findhorn at Randolph's Leap	4	1			
4 Falls of Dochart	5				
5 The Grey Mare's Tail	5				
6 River Clyde meanders			1	2	
7 Strathglass meanders		1	1	1	
8 Abhainn an t-Srath Chuileannaich		1	1,2	2	
9 Endrick Water			1	2	
10 Derry Burn	1	1,2,4	1		
11 River Balvag delta		5	1		
12 The Lower River Spey		1	4	1	
13 Glen Feshie	1	1,3	2,4,5		
14 The Allt Dubhaig		4	4	4	
15 Dorback Burn		1	2,4		
16 Glen Coe: river and slope forms	4	1,3			
17 Luibeg Burn	4	1			
18 Allt Mor (River Nairn)	2,4	1	1,5		
19 Allt Coire Gabhail		3			
20 Allt Mor (River Druie)	4	1,4	5	4	
21 Quoich Water alluvial fan		1	5	2	
22 Allt a' Choke	4	4	5		
23 Allt Coire Chailein fan		4	5	1	
24 Eas na Broige debris cone		3	5		
25 Oldhamstocks Burn		1,2			
26 Findhorn Terraces	1				

27 North Esk and West Water palaeochannels		3	1	
28 Glen Roy, Glen Spean and Glen Gloy	1		5	
29 Afon Llugwy between Swallow Falls and Betws y Coed	3,4,5			
30 Afon Rhaeadr at Pistyll Rhaeadr	5			
31 Afon Cynfal at Rhaeadr y Cwm and Rhaeadr Cynfal	3,4,5			
32 Afon Twymyn at Ffrwd Fawr	3,4,5			
33 Afon Glaslyn at Aberglaslyn	4	1		
34 Afon Teifi at Cenarth	4		1	
35 River Dee at Llangollen	2,3			
36 River Wye at Lancaut	2,3			
37 Afon Hepste	6			
38 Afon Mellte downstream of Ystradfellte	6			
39 Afon Dyfi between Dinas Mawddwy and Mallwyd	1,3			
40 Afon Rheidol	1			
41 Afon Vyrnwy	1		1	
42 Afon Ystwyth		4		1
43 Upper Elan upstream of Craig Goch Reservoir at Bodtalog	9	1		
44 Upper River Severn between Dolwen and Penstrowed	1,4	4		
45 River Severn between Welshpool and the confluence of the Vyrnwy and Severn		1		
46 River Dee, Holt to Worthenbury		1		

47 Afon Teifi at Cors Caron			1		
48 Maesnant, Pumlumon (Plynlimon)	7				
49 Black Mountain scarp		3			
50 Carlingill Valley, Howgill Fells	1,3	3	5	4,5	
51 Langdale and Bowderdale Valleys, Howgill Fells		1	5	4,5	
52 Langden Brook, Bowland Fells			4,5	4	
53 River Dane, near Swettenham	1		1	6	
A Langstrathdale*	4,5	3	4		
B Wasdale*	4	3	4,5		
C Fan Deltas at Buttermere and Crummock Water*			5		
54 Black Burn	1		4	1	
55 Garrigill, River South Tyne				5	1
56 River Nent, Blagill		5	1	2	1
57 The Islands (Alston Shingles), River South Tyne		1		5	
58 Blakett Bridge, River West Allen		5			
59 River Tyne at Low Prudoe		1			1
60 Harthope Burn				2	
61 Shaw Beck Gill		1			
62 Beckford				4	
63 River Severn at Montford				3	
64 River Axe at Axminster and Whitford		8		2	
65 River Exe at Brampford Speke		5			
66 River Ter at Lyons Hall		6			
67 River Derwent at Hathersage	1				2
68 Highland Water		7,8			
69 River Lyn	3	1			
70 River Itchen near Knightcote				3	

71 River Cherwell at Trafford House			3
72 Ashmoor Common			1
73 River Severn, Buildwas	1		6
74 Alport Valley	4		
75 Bleaklow	3		
76 Lydford Gorge	4		
77 Mimmshall Brook at Water End	7		
78 Aysgarth	5		
79 Dovedale	1		6
80 River Culm at Rewe		4,5	6
81 River Lugg			3
82 Wilden	1		6
*Potential GCR sites.			

(Table 1.2) Numbers of GCR sites representing the categories shown on (Figure 1.7)

Classification	Number of sites representing the category
<b>A. Fluvial Landforms</b>	
1 Terrace	14
2 Incised meanders	3
3 River capture/rejuvenation	9
4 Mountain torrent/slot gorge	17
5 Waterfall	9
6 Karstic site	2
7 Soil pipe/swallow hole	2
<b>B. Fluvial processes</b>	
1 Process event-flood	19
2 Accelerated erosion	2
3 Debris flow/cones	8
4 Sediment movement	7
5 Floodplain sedimentation	5
6 Discharge control on capacity	1
7 Vegetation influence	1
8 Bank erosion	2
9 Response to confinement variation	1
<b>C. River channel pattern and floodplain</b>	
1 Meander	14
2 Wandering	3
3 Outwash sandur	1
4 Braided	10
5 Alluvial fans	12
<b>D. Channel change</b>	
1 Palaeochannel	18
2 Planform change	7
3 Underfit stream	3
4 Palaeofans/sediments	6

5 Paleoterraces	5
6 Palaeoconditions	5
<b>E. Human</b>	
1 Mining	4
2 Reservoir	1
3 River management	1

**(Table 3.1) Confinement materials on an 8 km reach of the Upper Elan.** (After Lewin and Brindle, 1977.)

Confinement materials on an 8 km reach of the Upper Elan

	Right bank (km)	Left bank (km)	Average (%)
Rock	0.53	0.53	29.0
Solifluction deposits	0.75	0.74	40.1
Fluvial gravels	—	0.25	6.8
Sections of complex superficial deposits	0.52	0.34	24.1
Total	1.80	1.86	100.0

**(Table 3.2) Threshold discharges for bed material movement and type of reach** (E = erosional; D = depositional; S = stable).

Site	Discharge $\text{m}^3\text{s}^{-1}$	
Dolwen	11.0	S
Lower Penrhuddlan	16.0	S
Craig Fryn	30.0	D
Llandinam	11.0	E
Maes-Mawr	16.2	E
Ty-Mawr	17.1	E
Penstrowed	17.1	E

**(Table 3.3) Input and output of sediment from debris-flow gullies.** Yearly sediment derived from sides of gully B, 30 September 1971–29 September 1972.

	Western-facing side		Eastern-facing side		
	1	2	3	4	
Trap sediment yield	0.0128	0.0184	0.0039	0.0028	$\text{m}^3\text{m}^{-2}\text{yr}^{-1}$
Mean sediment yield	0.0156		0.0033		$\text{m}^3\text{m}^{-2}\text{yr}^{-1}$
Gully side area	435.6		497.3		$\text{m}^2$
Total sediment yield	6.795		1.641		$\text{m}^3\text{yr}^{-1}$

Total sediment derived from gully sides =  $8.436\text{ m}^3$  in one year

Volume of debris flow removal from gullies

Gully	A	A	B	C	
	$11.5\text{ m}^3$	$11.5\text{ m}^3$	$9.8\text{ m}^3$	$8.3\text{ m}^3$	In observation year
				$9.1\text{ m}^3$	Outside observation year

## [References](#)

Table 1.1 Key to the sites shown on Figure 1.7, including classifications used in Table 1.2

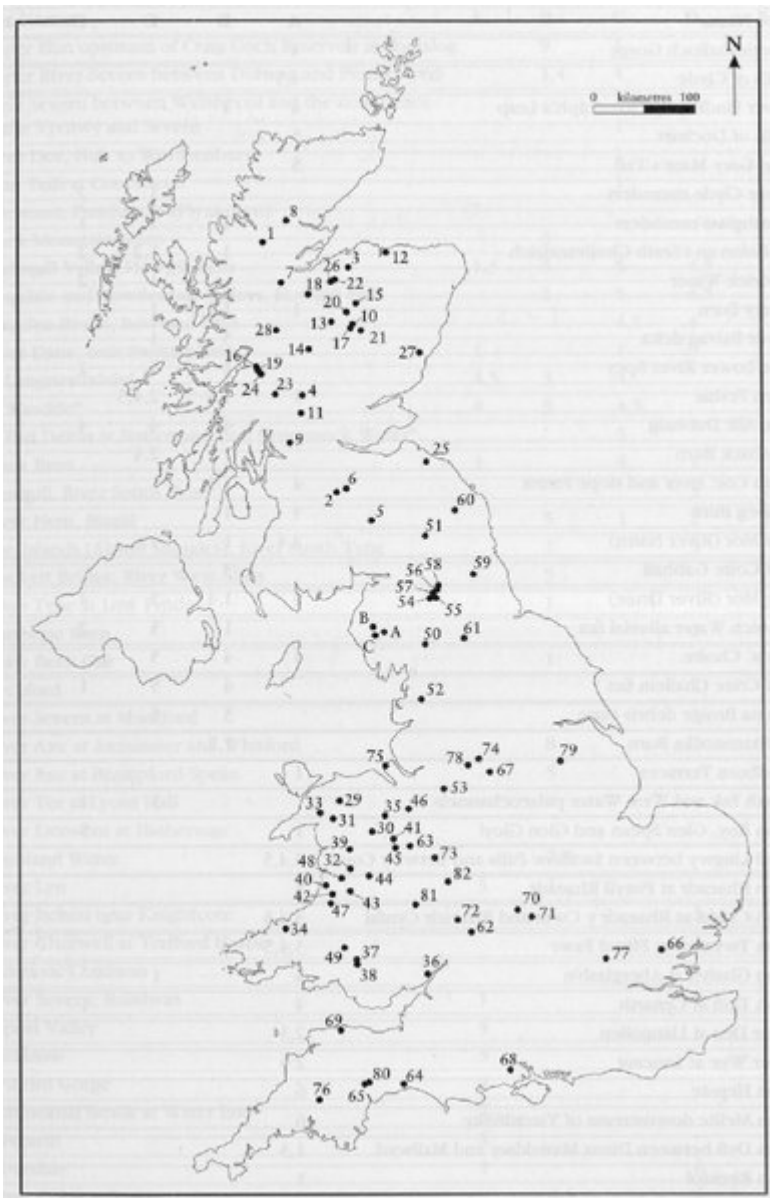
Site Name	A	B	C	D	E
1 Corriehalloch Gorge	4				
2 Falls of Clyde	4,5				
3 River Findhorn at Randolph's Leap	4	1			
4 Falls of Dochart	5				
5 The Grey Mare's Tail	5				
6 River Clyde meanders			1	2	
7 Strathglass meanders		1	1	1	
8 Abhainn an t-Seath Chastellanach		1	1,2	2	
9 Enderick Water			1	2	
10 Derry Burn	1	1,2,4	1		
11 River Balvag delta		5	1		
12 The Lower River Spey		1	4	1	
13 Glen Feshie	1	1,3	2,4,5		
14 The Allt Dubhaig		4	4	4	
15 Dornock Burn		1	2,4		
16 Glen Coe: river and slope forms	4	1,3			
17 Ladbeg Burn	4	1			
18 Allt Mor (River Nisim)	2,4	1	1,5		
19 Allt Coire Gabhail		5			
20 Allt Mor (River Drule)	4	1,4	5	4	
21 Quosich Water alluvial fan		1	5	2	
22 Allt a' Choire	4	4	5		
23 Allt Coire Chalcids fan		4	5	1	
24 Eas na Broige debris cote		3	5		
25 Omlunstocks Burn			1,2		
26 Findhorn Terraces	1				
27 North Esk and West Water palaeochannels			3	1	
28 Glen Roy, Glen Spean and Glen Gloy	1			5	
29 Afon Llugwy between Swallow Falls and Betws y Coed	3,4,5				
30 Afon Rhaeadr at Pityll Rhaeadr	5				
31 Afon Cynfal at Rhaeadr y Cwm and Rhaeadr Cynfal	3,4,5				
32 Afon Twynyni at Hrawd Fawr	3,4,5				
33 Afon Glaslyn at Aberglaslyn	4		1		
34 Afon Teifi at Genarth	4			1	
35 River Dee at Llangollen	2,5				
36 River Wye at Lancaut	2,5				
37 Afon Herpoe	6				
38 Afon Melbe downstream of Ystradfellte	6				
39 Afon Dyfi between Dinas Mawddwy and Malwyd	1,5				
40 Afon Rhedol	1				
41 Afon Vyrnwy	1			1	
42 Afon Ystwyth			4		1

Table 1.1 Continued

Site Name	A	B	C	D	E
43 Upper Eilan upstream of Craig Goch Reservoir at Bodolag	9	1			
44 Upper River Severn between Dolwen and Penstrawed	1,4	4			
45 River Severn between Welshpool and the confluence of the Vyrnwy and Severn				1	
46 River Dee, Holt to Worthcubury					1
47 Afon Teifi at Cors Caeron					1
48 Muesnant, Porthmannon (Plynlimon)	7				
49 Black Mountain scarp		3			
50 Carlangill Valley, Howgill Fells	1,3	3	5	4,5	
51 Langdale and Bowdledale Valleys, Howgill Fells		1	5	4,5	
52 Langfen Book, Bowland Fells				4,5	4
53 River Dane, near Swettenham		1		1	6
A Langstrathdale*		4,5	3	4	
B Washdale*		4	5	4,5	
C Fan Deltas at Butternere and Crommoch Water*					5
54 Black Burn	1		4	1	
55 Garrigill, River South Tyne					5
56 River Nens, Blagill		5	1	2	1
57 The Islands (Alston Shingles), River South Tyne			1		5
58 Blackett Bridge, River West Allen			5		
59 River Tyne at Low Peadoc		1			1
60 Harthopc Burn					2
61 Shaw Beck Gill			1		
62 Beckford					4
63 River Severn at Montford					3
64 River Axe at Axminster and Whitford			8		2
65 River Eux at Bramford Speke			5		
66 River Tre at Lyons Hall			6		
67 River Derwent at Hathersage	1				2
68 Highland Water			7,8		
69 River Lyn	3	1			
70 River Itchen near Knightcote					3
71 River Cherwell at Trafford House					5
72 Ashmoor Common					1
73 River Severn, Buildwas	1				6
74 Alport Valley	4				
75 Beadlow	5				
76 Lydford Gorge	4				
77 Minnshall Brook at Water End	7				
78 Aysgarth	5				
79 Dovedale	1				6
80 River Culon at Bewe			4,5		6
81 River Lugg					3
82 Wilden	1				6

\*Potential GCR sites.

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(Figure 1.7) A map of Great Britain showing the classification of GCR fluvial geomorphology sites. See also (Table 1.1).

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