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 Blackett 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**
A. Fluvial Landforms	
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. Fluvial processes	
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
C. River channel pattern and floodplain	
1 Meander	14
2 Wandering	3
3 Outwash sandur	1
4 Braided	10
5 Alluvial fans	12
D. Channel change	
1 Palaeochannel	18
2 Planform change	7
3 Underfit stream	3
4 Palaeofans/sediments	6

5 Paleoterraces	5
6 Palaeoconditions	5
E. Human	
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 m^3s^{-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	$m^3m^{-2}yr^{-1}$
Mean sediment yield	0.0156		0.0033		$m^3\ m^{-2}yr^{-1}$
Gully side area	435.6		497.3		m^2
Total sediment yield	6.795		1.641		m^3yr^{-1}

Total sediment derived from gully sides = 8.436 m^3 in one year

Volume of debris flow removal from gullies

Gully	A	A	B	C	
	11.5 m^3	11.5 m^3	9.8 m^3	8.3 m^3	In observation year
				9.1 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

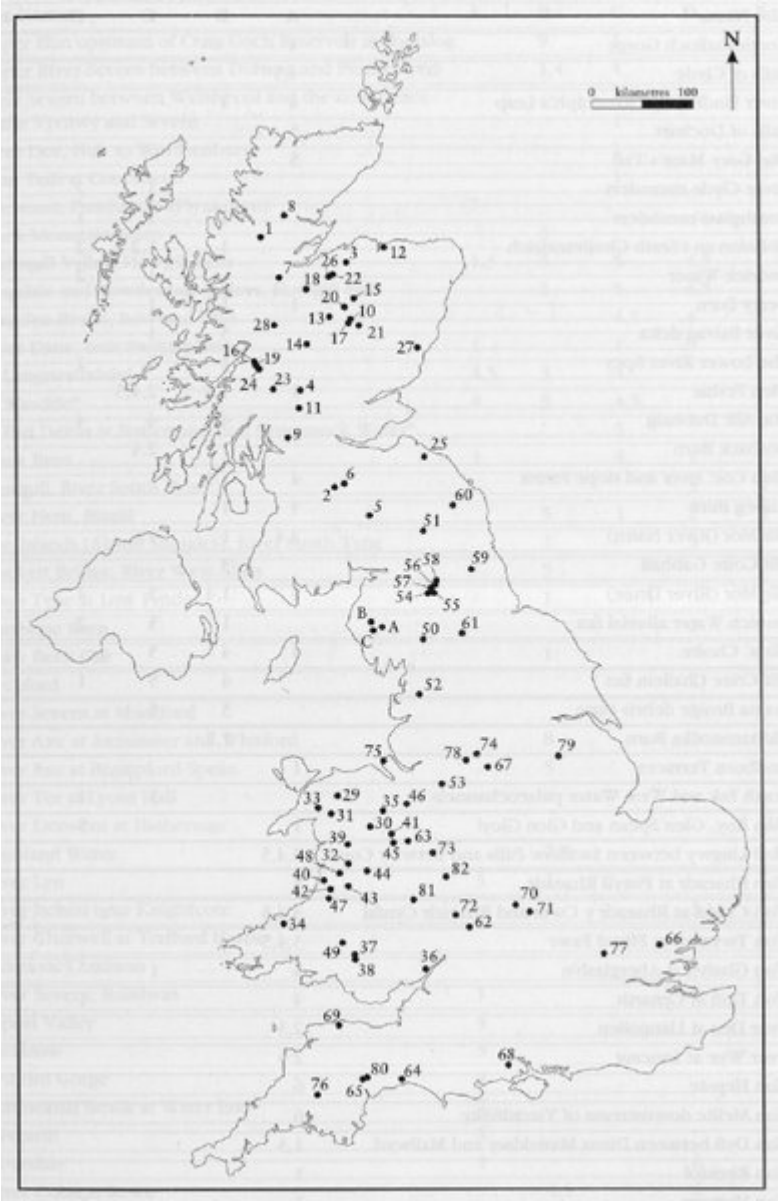
	Site Name	A	B	C	D	E
1	Corrieshalloch Gorge	4				
2	Falls of Clyde	4,5				
3	River Findhorn at Randolph's Leap	4	1			
4	Falls of Dochart	5				
5	The Grey Mare's Tail	5				
6	River Clyde meanders			1	2	
7	Strathglass meanders		1	1	1	
8	Abhainn an t-Seann Chaisteanaich		1	1,2	2	
9	Enderick Water			1	2	
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	Dorback Burn		1	2,4		
16	Glen Coe: river and slope forms	4	1,3			
17	Lusbeg 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' Choire	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			5	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 Hirwd 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

Table 1.1 Continued

	Site Name	A	B	C	D	E
43	Upper Elan upstream of Craig Goch Reservoir at Bodnalog		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	5	4		
	B Wasdale*	4	5	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	Blackett Bridge, River West Allen		5			
59	River Tyne at Low Prudoe		1			1
60	Hartlhope Burn				2	
61	Shaw Beck Gill		1			
62	Beckford				4	
63	River Severn at Montford				5	
64	River Axe at Axminster and Whitford		8		2	
65	River Exe at Brampford Speke		5			
66	River Tee 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	5				
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 1.1) Key to the sites shown on (Figure 1.7), including classifications used in (Table 1.2)



(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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A. Fluvial Landforms		
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5	Paleoterraces	5
6	Palaeoconditions	5
E. Human		
1	Mining	4
2	Reservoir	1
3	River management	1

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Total sediment derived from gully sides = 8.436 m^3 in one year					
Volume of debris flow removal from gullies					
Gully	**A**	**B**	**C**		
	11.5 m^3	9.8 m^3	8.3 m^3		In observation year
			9.1 m^3		Outside observation year

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