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River entrenchment and terrace formation in the UK Holocene

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Table 1 ¹⁴C dated alluvial units associated with Holocene river terraces in the UK

Catchment/site	Author citation	Site elevation (m)	Catchment size (km ²)	Valley floor width (m)	No. of Pleistocene (P) and Holocene (H) terraces	Dated unit type A – active channel accretion B – palaeochannel fills C – floodplain surface sediments D – flood basins	No. of Holocene dated units
<i>Spey</i>							
1. Allt Fhearnaghan	Bain et al., 1993	>300	1≤10	100	4T: 2P, 2H	B	1
2. Allt Lorgaidh	Robertson-Rintoul, 1986; Bain et al., 1993	360	1≤10	240	5T: 2P, 3H	B, C	2
<i>Tay</i>							
3. Edendon Water	Ballantyne and Whittington, 1999	450	<1	100	1T: 1H	C	1
<i>Tweed</i>							
4. Coldstream	Macklin and Passmore, unpublished	20	>1000	400-1200	5T: 1P, 4H	B, B, B	3
5. Till at Redscar Bridge	Passmore and Waddington, unpublished	40	100≤1000	2200	3T: 1P, 2H	B	1
6. Halter Burn	Tipping, 1992	170	1≤10	100	2T: 2H	C	1
7. Calroust Burn	Tipping, 1994	>200	10≤100	100	1T: 1H	B	1
8. Harthope Burn	Tipping, 1992	70	10≤100	420	1T: 1H	D	1
9. Crosscleugh Burn	Foster et al., 2008	300	1≤10	150	4T: 1P, 3H	B	1
10. Little Yarrow Burn	Foster et al., 2008	300	1≤10	300	3T: 1P, 2H	C, C	2
11. Breamish at Powburn	Tipping, 1992	90	10≤100	900	1T: 1H	B	1
<i>Eden</i>							
12. Kirtle Water at Hotts	Tipping, 1995	100	10≤100	430	3T: 3H	B, B	2
13. Kirk Burn	Tipping, 1995	110	10≤100	60	5T: 1P, 4H	B, B	2
14. Kirtle Water at Kirkconnel	Tipping, 1995	70	10≤100	360	4T: 1P, 3H	B, B, B	3
15. Kirtle Water at Robgill	Tipping, 1995	50	10≤100	50	2T: 1P, 1H	C	1
16. River Kingwater	Deaville, 1990	80	10≤100	250	1T: 1H	A	1
17. River Irthing	Cotton et al., 1999	40	100≤1000	800	7T: 1P, 6H	B, B	2

<i>Tyne</i>							
18. Rede at West Woodburn	Macklin et al., 1992	130	100≤1000	500	4T: 1P, 3H	B	1
19. North Tyne at Snabdaugh	Moores et al., 1999	120	100≤1000	750	7T: 2P, 5H	B, B	2
20. Thinhope Burn	Macklin et al., 1992; Macklin et al., 1994	360	1≤10	<100	4T: 4H	C, C, C	3
21. Blackburn	Macklin et al., 1992	350	10≤100	300	2T: 2H	B, B	2
22. South Tyne at Bleagate	Macklin et al., 1992	300	10≤100	280	1T: 1H	B	1
23. South Tyne at Lambley	Passmore and Macklin, 2000	140	100≤1000	200-600	6T: 1P, 5H	A, B, B	3
24. South Tyne at Haltwhistle	Passmore et al., 1993	110	100≤1000	1200	5T: 1P, 4H	B	1
25. Tyne at Low Prudhoe	Macklin et al., 1992	50	>1000	550	1T: 1H	A	1
26. Tyne at Clara Vale	Macklin et al., 1992	50	>1000	800	1T: 1H	A	1
<i>Sulby</i>							
27. Druidale	Chiverrell et al., 2001	250	1≤10	800	3T: 1P, 2H	B, B	2
<i>Lune</i>							
28. Thickcombs Gill	Dunsford, 1999	230	<1	30	4T: 4H	C, C	2
29. Calf Beck	Chiverrell et al., 2008c	200	1≤10	25	3T:1P, 2H	C	1
30. Langdale Beck	Harvey et al., 1981	290	<1	130	1T: 1H	A	1
<i>Ribble</i>							
31. Fiensdale	Harvey and Renwick, 1987	280	1≤10	140	1T: 1H	C	1
32. Langden Valley at Langden Castle	Harvey and Renwick, 1987	230	1≤10	170	2T: 2H	C, C	2
33. Little Hareden Fan	Harvey and Renwick, 1987	190	<1	80	2T: 2H	C, C	2
34. Hodder at Burholme Bridge	Harvey and Renwick, 1987	110	10≤100	900	3T: 1P, 2H	B	1
35. Calder at Nethertown	Foster et al., 2008	40	100≤1000	900	4T: 4H	B, B, B, B	4
36. Ribble at Lower House Farm.	Chiverrell et al., 2008a	15	>1000	1000	4T: 4H	B, B	2

<i>Ouse</i>							
37. Bardale Beck	Chiverrell et al., 2008b	330	1≤10	40	2T: 2H	C	1
38. Swale at Hoggarths	Foulds, 2008	340	10≤100	150	7T: 7H	B	1
39. Swale at Muker	Foulds, 2008; Howard and Macklin, unpublished	260	10≤100	150-400	7T: 7H	C, C	2
40. Swale at Isles Bridge	Foulds, 2008	200	100≤1000	350	2T: 2H	C	1
41. Swale at Reeth	Howard and Macklin, unpublished	180	100≤1000	200	1T: 1H	C	1
42. Swale at Catterick	Taylor and Macklin, 1997	70	100≤1000	330	7T: 7H	B, B	2
43. Morton-on-Swale	Foulds, 2008	30	100≤1000	600	3T: 3H	C	1
44. Aire at Beal	Taylor et al., 2000	10	100≤1000	1000	1T: 1H	B	1
45. River Wharfe	Howard et al., 2000	190	100≤1000	300-1000	4T: 2P, 2H	C, C	2
<i>Mersey</i>							
46. River Dane	Hooke et al., 1990	70	100≤1000	250	3T: 1P, 2H	A	1
<i>Dee</i>							
47. Erbistock – Bangor-on-Dee	Jones et al. 2010	20	>1000	2000	6T: 2P, 4H	B, C	2
<i>Dyfi</i>							
48. Dyfi at Minllyn	Johnstone, 2004	70	100≤1000	400-700	5T: 2P, 3H	B, B	2
49. Dyfi at Rhydygwail	Johnstone, 2004	30	100≤1000	550	3T: 1P, 2H	B	1
50. Dyfi at Hendreseifion	Johnstone, 2004	15	100≤1000	600	3T: 1P, 2H	B, B	2
51. Dyfi at Aberffrydlan	Johnstone, 2004	10	100≤1000	500	2T: 2H	B	1
<i>Rheidol</i>							
52. Lower Rheidol	Macklin and Lewin, 1986	20	100≤1000	2000	4T: 2P, 2H	A, A	2
<i>Teifi</i>							
53. Teifi at Trecefel	Jones et al., 2006	150	100≤1000	1500	3T: 3H	B	1
54. Teifi at Lampeter	Jones et al., 2010	110	100≤1000	900-1300	2T: 1P, 1H	B, B	2
<i>Severn</i>							
55. Tanat at Carreghofa	Taylor and Lewin, 1997	70	100≤1000	900	4T: 1P, 3H	B, A	2
56. Severn at Red House / Dolhafren	Jones et al., 2010	120	100≤1000	1400	2T: 2H	B, B	2

<i>Wye</i>							
57. Arrow at The Grove	Macklin et al., 2004	110	100≤1000	300	4T: 1P, 3H	B, B	2
58. Arrow at The Leen	Macklin et al., 2004	100	100≤1000	420	4T: 1P, 3H	B	1

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