

Table 1 Chemical analyses and magnetic susceptibility of studied axes and other archaeological pieces relating to Group XIII

IPC/other reference	Ca25	sd	Car23	sd	Ch11	sd	Dev1	sd	Do41	sd	Dmf8	sd	Ha41	sd
Site name	Penlan		Trelech a'r Bettws		Barrow		Sidmouth		Maiden Castle		Watcarrick		Bournemouth	
no. of PXRf analyses averaged	5		5		6		5		5		6		6	
K ₂ O wt %	0.65	0.06	1.76	0.24	0.50	0.09	0.62	0.21	0.72	0.16	1.70	0.18	0.54	0.27
CaO wt %	5.30	0.78	8.07	1.55	10.01	1.97	9.67	0.79	11.61	1.22	10.99	1.01	9.96	1.21
TiO ₂ wt %	0.95	0.17	1.12	0.61	0.84	0.32	0.56	0.20	1.12	0.39	0.93	0.26	0.96	0.28
MnO wt %	0.12	0.02	0.14	0.03	0.13	0.02	0.13	0.02	0.17	0.04	0.16	0.03	0.10	0.03
Fe ₂ O ₃ wt %	11.06	0.97	9.06	0.91	11.80	0.96	9.49	1.03	9.04	0.96	10.17	0.98	9.28	1.31
Ba ppm	357	80	115	24	139	19	129	23	222	52	344	123	100	34
Nb	4	3	4	1	7	3	4	2	6	2	9	4	4	2
Pb	165	165	193	40	386	206	70	11	36	14	54	13	51	21
Fb	-5	3	10	6	-2	5	-2	6	3	3	57	14	5	9
Sr	398	11	230	27	297	34	210	8	225	34	335	54	215	11
Y	21	3	14	4	14	4	14	6	22	9	19	7	13	5
Zr	103	21	64	9	62	9	50	6	72	21	83	19	59	5
Magnetic susceptibility SI x 10 ⁻³	0.50	0.02	0.40	0.05	0.50	0.09	0.44	0.02	0.43	0.03	2.00	0.17	0.52	0.04
Previously reported Group status	XIII		XIII		XIII		XIII		XIII		XIII?		XIII	
Notes: sd are the standard deviations (n-1) on average PXRf concentrations for each implement;														
negative estimates of concentrations (which can be obtained around detection limits) are retained since they give information on approximate element concentrations;														
PXRf count times 200 100 40 s (Cd Fe Am sources respectively);														
Su34 Pb value omits one analysis of 7451 ppm, believed to be surface contamination;														
PXRf data (concentrations and sd) corrected for PXRf calibration, and for surface relief using intensity of backscatter peaks (Potts <i>et al.</i> 1997a);														
Magnetic susceptibility values for implements previously analysed (Jones and Williams-Thorpe 2001) are:														
An10 Llanfaethlu 0,54; E23 Lamarsh 0,46; E29 Thaxted 0,89; M8 Netherwent 0,44; Me8 Arthog 0,52; P13 Nevern 32,17 all with rsd within range of those above;														
n for all mag sus are between 5 and 21;														
county abbreviations: An Anglesey, Ca Cardiganshire, Car Carmarthenshire, Dev Devonshire, Do Dorset, Dmf Dumfriesshire, E Essex,														
Ha Hampshire, M Monmouthshire, Me Merionethshire, P Pembrokeshire, Ra Radnorshire, S Suffolk, Sh Shropshire, Su Surrey, Sx Sussex, Wi Wiltshire.														

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Ra4	sd	Shah61	sd	S94	sd	Su34	sd	Sx6	sd	Sx178	sd	Wi 10	sd	Wi108	sd
Clap yr Arian		Wotherton		Lakenheath		Hersham		Crawley		Newhaven		Windmill Hill		Stonehenge	
5		6		9		10		5		10		5		5	
0.75	0.12	0.36	0.05	0.95	0.12	0.95	0.17	1.16	0.07	0.97	0.15	0.35	0.12	0.36	0.06
9.68	0.51	7.92	0.94	10.82	1.53	7.26	1.57	9.08	1.48	7.88	0.61	7.00	1.55	12.83	1.68
1.07	0.27	1.03	0.21	1.01	0.09	0.99	0.23	0.61	0.07	1.06	0.36	1.24	0.41	0.71	0.12
0.12	0.05	0.14	0.03	0.16	0.03	0.17	0.03	0.09	0.01	0.15	0.03	0.11	0.03	0.13	0.02
9.43	0.74	11.00	0.63	12.70	0.56	15.59	2.53	8.73	0.46	13.74	0.98	8.96	0.49	9.94	0.44
98	22	1690	235	276	55	154	99	477	48	197	45	106	24	144	41
4	3	7	2	24	4	5	3	4	3	6	2	14	3	2	2
67	13	135	45	48	15	164	70	35	9	48	19	27	8	54	9
-3	5	-6	7	12	7	37	19	34	10	35	13	-1	4	2	4
256	18	304	36	421	37	258	49	322	25	116	15	278	36	173	22
19	4	17	6	21	4	26	8	15	6	21	7	33	6	17	4
81	7	85	11	124	11	95	17	51	9	69	11	199	22	61	5
0.59	0.05	0.55	0.02	0.76	0.13	0.67	0.07	0.40	0.04	0.66	0.03	50.97	1.09	0.43	0.03
XIII		XIII		XIII		XIII		XIII		XIII		XIII		XIII	

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Wi109	sd	Wi118	sd	Wi1302	sd	Car30	sd	Car31	sd	Car34	sd	Wi389	sd	SiIF	sd
Stonehenge		Stockton		Wilsford		Garn Wen		Llaugharne		March Gwyn		Avebury area		Stonehenge?	
5		5		5		5		3		5		5		2	
0.31	0.05	0.42	0.16	0.72	0.09	0.24	0.03	1.83	0.05	0.90	0.28	0.68	0.07	0.33	0.02
10.49	0.68	11.11	0.87	13.29	0.69	5.71	0.27	8.58	0.20	3.89	0.74	9.52	1.16	11.98	0.57
1.01	0.43	0.74	0.17	1.29	0.11	1.33	0.22	2.78	0.32	2.49	0.50	0.89	0.22	0.77	0.10
0.15	0.03	0.11	0.03	0.12	0.03	0.12	0.03	0.15	0.02	0.16	0.03	0.10	0.02	0.14	0.03
9.52	0.43	9.05	1.28	8.88	0.89	13.24	0.53	14.69	0.32	16.81	1.06	8.50	0.95	9.94	0.20
122	24	173	68	207	23	175	9	855	106	127	23	92	28	127	44
3	3	1	3	4	2	3	3	27	1	9	1	4	3	5	0
34	9	56	14	44	18	558	268	137	30	166	64	56	9	63	74
-1	4	2	9	8	10	-11	7	19	10	0	13	6	4	-4	6
239	23	199	18	239	8	535	69	367	32	172	35	221	20	242	1
14	3	16	4	24	6	24	5	64	4	7	7	19	5	12	0
55	3	57	7	73	10	95	13	271	11	158	29	45	7	64	14
0.47	0.04	0.44	0.04	0.61	0.05	1.01	0.08	13.23	1.38	21.91	4.30	0.40	0.02	0.50	0.01
XIII		XIII		XIII		?		?		?		?		not listed	