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*Supplement of*

## **Climate-driven expansion of blanket bogs in Britain during the Holocene**

**A. V. Gallego-Sala et al.**

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This Supplementary file contains information on the individual sites used for the basal ages compilation, including latitude and longitude (decimal°), altitude (m), source reference, lowermost radiocarbon date (14C date) and its uncertainty (error) in years BP, the age of this date in calibrated years BP (and uncertainty), the depth of the peat at the site, the dating method used to establish the basal age of the peat (either a radiocarbon-based chronology, 14C, or a pollen-based chronology) and the region to which the site is assigned in our analyses.

SITE NAME	LONGITUDE	LATITUDE	REFERENCE	14C DATE (BP)	ERROR	CAL DATE (BP)	ERROR	ALTITUDE	Peat Depth	DATING METHOD	Age extra- polated	REGION
Borve Valley	-7.4769	56.9791	(Ashmore et al., 2000)	8700	55	9643	82	300	440	14C	N	N.Scotland
Tormore, Arran	-5.32	55.54	(Barber and Brown, 1984)			3136.5	70			14C	N	S.Scotland
Extwistle Moor	-2.1397	53.804	(Bartley and Chambers, 1992)	3005	100	3191	143	360	145	14C	Y	N.England
Allt na Feithe Sheilich	-3.9	57.3167	(Birks, 1975))	9126	230	10288	302	595	325	14C	Y	N.Scotland
Kinlochewe	-5.3038	57.6038	(Birks, 1975)	6974	120	7803	119	30	95	14C	N	N.Scotland
Beinn Dearg	-4.93	57.7856	(Birks, 1975)	5885	110	6700	131	519	180	14C	N	N.Scotland
Coire Bog	-4.3867	57.8497	(Birks, 1975)	7229		8043	100	259	280	14C	Y	N.Scotland
Clateringshaws Loch	-4.2833	55.0667	(Birks, 1975)	6820	180	7668	156	210	190	14C	N	S.Scotland
Cooran Lane	-4.3972	55.1086	(Birks, 1975)	1063		973	101	274	215	14C	Y	S.Scotland
Harolds Bog	-1.1034	54.331	(Blackford, 1990)	3170	65	3389	61	302	105	14C	N	N.England
Letterfrack LET1	-9.95	53.55	(Blackford, 1990)	5040	60	5781	84	287	107	14C	N	E.Ireland
Letterfrack LET2	-9.95	53.55	(Blackford, 1990)	2535	70	2655	112	112	97	14C	N	E.Ireland
Migneint MIG1	-3.8278	52.8178	(Blackford, 1990)	5425	85	6224	90	501	229	14C	Y	Wales
Migneint MIG2	-3.8278	52.8178	(Blackford, 1990)	3680	65	4009	92	503	66	14C	Y	Wales
Callanish (Column 1)	-6.74	58.2	(Bohncke, 1988)	4810	60	5556	64		64	14C	N	N.Scotland
Y Godor YGI3	-3.3593	52.8714	(Bostock, 1980)	6450		7369	91	650	378	POLLEN	Y	Wales
Y Godor YGI4	-3.3593	52.8714	(Bostock, 1980)	5950		6776	122	650	341	POLLEN	Y	Wales
Trum Felen TF4	-3.3875	52.8684	(Bostock, 1980)	5290		6062	128	695	329	POLLEN	Y	Wales
Trum Felen TF7	-3.3875	52.8684	(Bostock, 1980)	5290		6062	128	695	340	POLLEN	Y	Wales
Trum Felen TF2	-3.3875	52.8684	(Bostock, 1980)	5250		6013	124	695	365	POLLEN	Y	Wales
Trum Felen TF3	-3.3875	52.8684	(Bostock, 1980)	4950		5683	107	695	365	POLLEN	Y	Wales
Y Godor YG1	-3.3713	52.8748	(Bostock, 1980)	4200		4751	137	656	257	POLLEN	Y	Wales
Ceulan Meyheryn CM5	-3.3936	52.8755	(Bostock, 1980)	4200		4751	137	775	258	POLLEN	Y	Wales
Ceulan Meyheryn CM1	-3.3936	52.8755	(Bostock, 1980)	3340		3573	120	775	265	POLLEN	Y	Wales
Bronkin Harry TF10	-3.3875	52.8684	(Bostock, 1980)	2450		2517	162	150	150	POLLEN	Y	Wales
Y Godor YG2	-3.3713	52.8748	(Bostock, 1980)	2450		2517	162	656	219	POLLEN	Y	Wales
Y Godor YG4	-3.3713	52.8748	(Bostock, 1980)	2450		2517	162	656	154	POLLEN	Y	Wales
Y Godor YG3	-3.3713	52.8748	(Bostock, 1980)	2050		2012	127	656	138	POLLEN	Y	Wales
Ceulan Meyheryn CM3	-3.3936	52.8755	(Bostock, 1980)	2050		2012	127	775	177	POLLEN	Y	Wales
Carneddau Ci CC1	-3.3868	52.8953	(Bostock, 1980)	1950		1895	114	610	147	POLLEN	Y	Wales
Moel Sych MS1	-3.3877	52.8764	(Bostock, 1980)	1750		1663	121	820	100	14C	Y	Wales
Trum Felen TF1	-3.3875	52.8684	(Bostock, 1980)	950		864	101	695	293	POLLEN	Y	Wales
Trum Felen TF11	-3.3784	52.864	(Bostock, 1980)	950		864	101	550	39	POLLEN	Y	Wales

SITE NAME	LONGITUDE	LATITUDE	REFERENCE	14C DATE (BP)	ERROR	CAL DATE (BP)	ERROR	ALTITUDE	Peat Depth	DATING METHOD	Age extra- polated	REGION
Coire Seilich	-4.6994	56.5811	(Bridge et al., 1990)	9779	90	11197	85	300	433	14C	Y	S.Scotland
Clashgour C Rannoch Moor	-4.8516	56.548	(Bridge et al., 1990)	9370	60	10588	76	293	333	14C	N	S.Scotland
Gleann Fuar Rannoch Moor	-4.8496	56.5211	(Bridge et al., 1990)	8310	50	9327	82	200	230	14C	N	S.Scotland
Clashgour A Rannoch Moor	-4.8332	56.5412	(Bridge et al., 1990)	6460	50	7386	48	180	174	14C	N	S.Scotland
Caislean, Achill Island	-10.133	53.9833	(Caseldine et al., 2005)	9850	300	11310	470	50	291	14C	N	W.Ireland
Caislean, Achill Island	-10.133	53.9833	(Caseldine et al., 2005)	8860	30	9981	101	50	233	14C	N	W.Ireland
Brecon Beacons CAR 51	-3.5	51.8667	(Chambers, 1981, 1982)	4380	70	4953	114	715	102	14C	N	Wales
Cefn Fford CAR 9 CFF	-3.585	51.7168	(Chambers, 1981, 1982)	3625	80	3937	108	600	25	14C	N	Wales
Coed Taf A	-3.4686	51.7867	(Chambers, 1983)	1435	55	1329	39	400	29	14C	N	Wales
Coed Taf B	-3.4686	51.7867	(Chambers, 1983)	1310	70	1243	66	400	71	14C	N	Wales
Cefn Gwernffrwd CG	-3.8494	52.1284	(Chambers, 1981)	3465	70	3727	94	400	69	14C	N	Wales
Coed Taf C	-3.4686	51.7867	(Chambers, 1983)	6885	110	7717	103	400	354	14C	Y	Wales
Talla Moss	-3.3429	55.4692	(Chambers et al., 1997)	6275		7193	118	600	120	14C	Y	S.Scotland
Coom Rigg B	-2.4874	55.1044	(Chapman, 1964)	4000	0	4468	143	300	150	POLLEN	Y	N.England
Cross Lochs Fen A (1)	-3.9122	58.3872	(Charman, 1994, 1990)	9400	50	10624	65	158	367	14C	Y	N.Scotland
Cross Lochs Fen A (5)	-3.9156	58.3872	(Charman, 1994, 1990)	7200		8016	96	162	215	POLLEN	N	N.Scotland
Cross Lochs Fen A (7)	-3.9173	58.3871	(Charman, 1994, 1990)	5650		6431	106	164	184	POLLEN	N	N.Scotland
Cross Lochs Fen A (3)	-3.9139	58.3871	(Charman, 1994, 1990)	5250		6013	124	160	168	POLLEN	N	N.Scotland
Cross Lochs Fen A (2)	-3.9122	58.3872	(Charman, 1994, 1990)	4900		5633	100	159	160	POLLEN	N	N.Scotland
Cross Lochs Fen A (4)	-3.9139	58.3872	(Charman, 1994, 1990)	3850		4258	149	161	156	POLLEN	N	N.Scotland
Cross Lochs Fen A (6)	-3.9156	58.3872	(Charman, 1994, 1990)	3550		3839	133	163	110	POLLEN	N	N.Scotland
Cross Lochs 1	-3.9345	58.3878	(Charman, 1992)	9170	90	10322	111	148	138	14C	N	N.Scotland
Cross Lochs 4	-3.9345	58.3878	(Charman, 1992)	8835	165	9903	259	118	172	14C	N	N.Scotland
Cross Lochs 3	-3.9345	58.3878	(Charman, 1992)	6805	50	7642	38	168	207	14C	N	N.Scotland
Cross Lochs 2	-3.9345	58.3878	(Charman, 1992)	4035	55	4504	82	168	52	14C	N	N.Scotland
St Helena B	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Bluewath Beck	-0.8595	54.3949	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Collier Gill Head	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
White Gill	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Trough House	-0.9233	54.3997	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Loose House	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129	365	131	POLLEN	Y	N.England
Glaisdale Moor	-0.8925	54.3994	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Blakey Slip	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Blacky Landslip	-0.9	54.4	(Cundill, 1977)	5500	1000	6251	1129			POLLEN	Y	N.England
Pike Hill Moss	-0.8309	54.3988	(Cundill, 1977)	2500	500	2570	603			POLLEN	Y	N.England
Howdale Hill	-1.0157	54.4005	(Cundill, 1977)	2500	500	2570	603		64	POLLEN	Y	N.England
Yarsley Moss	-0.8465	54.39	(Cundill, 1977)	2500	500	2570	603		200	POLLEN	Y	N.England
St Helena A	-0.9	54.4	(Cundill, 1977)	2500	500	2570	603			POLLEN	Y	N.England

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Ardudwy CAR643	-4.0575	52.8667	(Dresser, 1985)	8590	100	9557	85	0	139	14C	N	Wales
Cefn Graeanog Bog CAR10	-4.3074	53.0132	(Dresser, 1985)	7230	90	8043	91	0	203	14C	N	Wales
Cefn Gwernffrwd CAR40	-3.8494	52.1284	(Dresser, 1985)	5490	80	6284	69	400	104	14C	N	Wales
Pen Rhiw CAR26 MonolithH	-3.8423	51.8489	(Dresser, 1985)	3380	70	3619	88	510	87	14C	N	Wales
Pen Rhiw Wen Mon M CAR14	-3.8423	51.8489	(Dresser, 1985)	5740	80	6529	98	540	76	14C	N	Wales
20-2 Cairngorms ANTW203	-3.705	57.1692	(Dubois and Ferguson, 1985)	7060	97	7888	95	730		14C	N	C.Scotland
26-1 Cairngorms IRPA601	-3.705	57.1692	(Dubois and Ferguson, 1985)	6660	80	7537	62	710		14C	N	C.Scotland
20-1 Cairngorms ANTW202	-3.705	57.1692	(Dubois and Ferguson, 1985)	6620	68	7506	55	730		14C	N	C.Scotland
20 Cairngorms IRPA362	-3.705	57.1692	(Dubois and Ferguson, 1985)	6090	300	6950	346	560		14C	Y	C.Scotland
20 Cairngorms IRPA366	-3.705	57.1692	(Dubois and Ferguson, 1985)	5670	250	6468	275	640		14C	Y	C.Scotland
2 Cairngorms IRPA361	-3.705	57.1692	(Dubois and Ferguson, 1985)	5230	260	5993	285	595		14C	Y	C.Scotland
26-2 Cairngorms IRPA598	-3.705	57.1692	(Dubois and Ferguson, 1985)	3440	60	3694	80	710		14C	N	C.Scotland
Croaghau East	-9.4562	54.1922	(Dwyer and Mitchell, 1997)	6544	110	7446	89	418	217	14C	Y	W.Ireland
Creag na Caillich	-4.3362	56.5099	(Edmonds et al., 1992)	5050	60	5793	83	916		14C		N.Scotland
Loch Dee	-4.4512	55.0735	(Edwards et al., 1991)	2600	50	2731	40	245	65	14C	N	S.Scotland
Western Ranooch Moor	-4.8014	57.4681	(Ellis, 2008)	9525	25	10808	109	310	140	14C	N	N.Scotland
Migneint MIG3	-3.8278	52.8178	(Ellis and Tallis, 2001)	4695		5426	126	440	142	14C	Y	Wales
Campsie Fells	-4.3	56.0167	(Eydt, 1960)	5500		6291	92	335	170	POLLEN	Y	C.Scotland
Winney's Down	-3.9414	50.6221	(Fyfe and Woodbridge, 2012)	7477	28	8318	38	518		14C		SW.England
Cut Hill	-3.9807	50.6221	(Fyfe and Woodbridge, 2012)	6046	25	6046	25	603		14C		SW.England
Broad Down	-3.9609	50.6118	(Fyfe and Woodbridge, 2012)	6876	25	6876	25	515		14C		SW.England
Hangingstone Hill	-3.9556	50.6543	(Fyfe and Woodbridge, 2012)	6579	34	6579	34	601		14C		SW.England
Whitehorse Hill	-3.9566	50.6531	(Fyfe and Woodbridge, 2012)	4625	50	5350	71			14C		SW.England
Amicombe Hill	-4.0313	50.6631	(Fyfe and Woodbridge, 2012)	4010	50	4010	50			14C		SW.England
Blackbrook Hill	-4.0023	50.5861	(Fyfe and Woodbridge, 2012)	3990	40	3990	40			14C		SW.England
Altnahinch Long Sect	-6.0766	54.9448	(Goddard, 1971)	4880	105	5615	105	260	242	14C	N	N.Ireland
Lough Lark	-6.9984	54.7772	(Goddard, 1971)	3955	75	4408	101	329	100	14C	N	N.Ireland
Beahs Sand Quarry	-6.1891	55.0804	(Goddard, 1971)	3705	65	4044	93	277	157	14C	N	N.Ireland
Gruig Top	-5.9594	55.0085	(Goddard, 1971)	3335	70	3565	86	274	82	14C	N	N.Ireland
Ballypatrick Forest	-6.129	55.1604	(Goddard, 1971)	2915	75	3058	118	198	181	14C	N	N.Ireland
Loughermore	-7.0891	54.9593	(Goddard, 1971)	2900	70	3034	109	183	24	14C	N	N.Ireland
Crocknamoyle	-5.949	54.9994	(Goddard, 1971)	2855	175	2991	220	274	117	14C	Y	N.Ireland
Loughaveerna	-6.1102	55.1592	(Goddard, 1971)	2780	95	2881	109	225	172	14C	N	N.Ireland
Altnahinch Blanket Bog	-6.0766	54.9448	(Goddard, 1971)	2725	85	2822	81	260	61	14C	N	N.Ireland
Beahs Forest	-6.1886	55.0571	(Goddard, 1971)	2520	70	2633	122	320	43	14C	N	N.Ireland
Breen Bog	-6.2481	55.128	(Goddard, 1971)	1485	65	1369	59	274	53	14C	N	N.Ireland
Beahs Sand Quarry	-6.1891	55.0804	(Goddard, 1971)	4355	60	4913	85	276	136	14C	N	N.Ireland
Glens Bridge	-6.268	55.104	(Goddard, 1971)	3610	75	3917	101	230	208	14C	N	N.Ireland
Yynslas (near Borth, Cors Foch)	-4.0514	52.4847	(Godwin and Willis, 1961)	5898	135	6716	162			14C	N	Wales

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Carrowmore	-8.5	54.25	(Hakansson, 1986)	7110	75	7936	66	30	120	14C	N	N.Ireland
Carrantoohill, Killarney	-9.6858	52.0234	(Hakansson, 1986)	4600	65	5316	98	250	100	14C	N	W.Ireland
Glencree Co. Wicklow	-6.25	53.1833	(Hakansson, 1986)	4200	60	4770	90	630	100	14C	N	E.Ireland
Dun Moss SRR 552	-3.3472	56.7001	(Harkness, 1981)	9020	150	10165	194	0	990	14C	N	C.Scotland
Nertherton 3 SRR 952	-3.9476	55.7688	(Harkness, 1981)	7890	100	8704	160	0	185	14C	N	C.Scotland
Fleet Moss	-2.0752	54.2804	(Honeyman, 1985)	8510	50	9507	27	380	365	14C	N	N.England
Thorton Mire	-2.0752	54.2804	(Honeyman, 1985)	8480	90	9484	64	380	325	14C	N	N.England
Penhill	-1.9432	54.2678	(Honeyman, 1985)	4820	50	5567	50	594	175	14C	N	N.England
Round Loch of Glen Head S18 A	-4.4304	55.0937	(Jones, 1987)	9390	60	10613	78	330	590	14C	N	S.Scotland
Round Loch of Glen Head U9	-4.4304	55.0937	(Jones, 1987)	8940	60	10115	106	305	590	14C	N	S.Scotland
Round Loch of Glen Head 522	-4.4304	55.0937	(Jones, 1987)	8550	50	9526	23	330	312	14C	N	S.Scotland
Round Loch of Glen Head U12	-4.4304	55.0937	(Jones, 1987)	8530	60	9516	30	305	440	14C	N	S.Scotland
Round Loch of Glen Head U6	-4.4304	55.0937	(Jones, 1987)	8270	50	9262	89	304	342	14C	N	S.Scotland
Round Loch of Glen Head S11	-4.4304	55.0937	(Jones, 1987)	8190	50	9131	81	330	194	14C	N	S.Scotland
Round Loch of Glen Head U18	-4.4304	55.0937	(Jones, 1987)	7960	60	8820	134	306		14C	N	S.Scotland
Round Loch of Glen Head S14	-4.4304	55.0937	(Jones, 1987)	7690	60	8468	57	330	470	14C	N	S.Scotland
Round Loch of Glen Head 526	-4.4304	55.0937	(Jones, 1987)	6070	50	6925	67	330	192	14C	N	S.Scotland
Round Loch of Glen Head U16	-4.4304	55.0937	(Jones, 1987)	5450	40	6259	33	306	80	14C	N	S.Scotland
Braes of Aglath SRR 983	-3.1311	59.0459	(Keatinge and Dickson, 1979)	2919	45	3061	78	90	0	14C	N	Orkneys
Glims Moss	-3.204	59.0865	(Keatinge and Dickson, 1979)	7252	215	8071	209	40	560	14C	Y	Orkneys
Mid Hill SRR 981	-3.1573	59.0968	(Keatinge and Dickson, 1979)	3422	45	3669	59	0	130	14C	N	Orkneys
Burn of Rusht SRR 982	-3.1705	59.0769	(Keatinge and Dickson, 1979)	3355	45	3589	57	90	150	14C	N	Orkneys
Ben Gorm Moss	-6.3	57.6	(Langdon and Barber, 2001)	3910		4344	144	454	137	14C	Y	N.Scotland
Broad Amicombe Hole D13	-4.0015	50.384	(Maguire, 1983)	4350	50	4900	67	480	115	14C	N	SW.England
Broad Amicombe Hole D11	-4.0015	50.384	(Maguire, 1983)	3570	60	3865	80	480	90	14C	N	SW.England
Broad Amicombe Hole D9	-4.0015	50.384	(Maguire, 1983)	3500		3773	132	480	80	POLLEN	Y	SW.England
Broad Amicombe Hole D5	-4.0015	50.384	(Maguire, 1983)	3440	50	3692	68	480	35	14C	N	SW.England
Broad Amicombe Hole D12	-4.0015	50.384	(Maguire, 1983)	2810	60	2906	76	480	64	14C	N	SW.England
Broad Amicombe Hole D15	-4.0015	50.384	(Maguire, 1983)	2800		2906	122	480	75	POLLEN	Y	SW.England
Broad Amicombe Hole D2	-4.0015	50.384	(Maguire, 1983)	2000		1952	119	480	35	POLLEN	Y	SW.England
Broad Amicombe Hole D10	-4.0015	50.384	(Maguire, 1983)	1070		980	102	480	17	POLLEN	Y	SW.England
Broad Amicombe Hole D8	-4.0015	50.384	(Maguire, 1983)	1070		980	102	480	15	POLLEN	Y	SW.England
Copa Hill, Cymystwyth	-3.7475	52.361	(Mighall and Chambers, 1993)	3470	35	3731	57	520	134	14C	N	Wales
Craggie Basin Pit 11	-3.9071	58.1348	(Mills, unpublished data)	5370	60	6171	82	253	85	14C	N	N.Scotland
Craggie Basin Pit 6	-3.9121	58.1321	(Mills, unpublished data)	4650	50	5377	70	307	34	14C	N	N.Scotland
Craggie Basin Pit 37	-3.8539	58.1554	(Mills, unpublished data)	4320	80	4884	95	206	106	14C	N	N.Scotland
Craggie Basin Pit 1	-3.9169	58.1275	(Mills, unpublished data)	4150	50	4698	104	421	60	14C	N	N.Scotland
Craggie Basin Pit 15	-3.8989	58.1404	(Mills, unpublished data)	3600	50	3903	66	224	33	14C	N	N.Scotland

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Craggie Basin Pit 19	-3.8956	58.1422	(Mills, unpublished data)	2860	150	2993	193	173	86	14C	N	N.Scotland
Craggie Basin Pit 23	-3.8907	58.1459	(Mills, unpublished data)	2630	50	2748	30	97	62	14C	N	N.Scotland
Craggie Basin Pit 34	-3.8792	58.1523	(Mills, unpublished data)	1730	50	1637	66	242	33	14C	N	N.Scotland
Craggie Basin Pit 29	-3.8858	58.1486	(Mills, unpublished data)	880	90	795	92	169	18	14C	N	N.Scotland
Duartbeg	-5.1309	58.2958	(Moar, 1969)	3720	215	4076	297	16	325	14C	Y	N.Scotland
Bellanaboy	-9.59	54.3	(O'Connell, 1990)	4935		5667	104			14C		W.Ireland
Bellanaboy	-9.59	54.3	(O'Connell, 1990)	7930		8767	170			14C		W.Ireland
Glenveagh	-8	55.07	(O'Connell, 1990)	4260		4822	123			14C		W.Ireland
Glenveagh	-8	55.07	(O'Connell, 1990)	4270		4834	122			14C		W.Ireland
Maughansilly	-9.86	51.74	(O'Connell, 1990)	3485		3754	131			14C		W.Ireland
Aukhorn, Caithness M1	-3.16	58.5552	(Robinson, 1987)	7895	105	8714	167	60	230	14C	N	N.Scotland
Aukhorn, Caithness M3	-3.16	58.5552	(Robinson, 1987)	7250		8064	102	70	105	POLLEN	N	N.Scotland
Bonfield Gill Head	-1.0814	54.3542	(Simmons and Innes, 1981)	6018	90	6859	117	346	105	14C	Y	N.England
Waun Felen Fignen B125N	-3.674	50.9485	(Smith and Cloutman, 1988)	7830	100	8621	135	480	46	14C	N	Wales
Waun Felen Fignen EE17E	-3.674	50.9485	(Smith and Cloutman, 1988)	7020	90	7850	93	480	69	14C	N	Wales
Waun Felen Fignen F117S	-3.674	50.9485	(Smith and Cloutman, 1988)	6770	90	7619	69	480	90	14C	N	Wales
Waun Felen Fignen B46.5N	-3.674	50.9485	(Smith and Cloutman, 1988)	6570	700	7417	712	480	180	14C	N	Wales
Waun Felen Fignen E13N	-3.674	50.9485	(Smith and Cloutman, 1988)	6520	85	7429	69	480	252	14C	N	Wales
Waun Felen Fignen B90S	-3.674	50.9485	(Smith and Cloutman, 1988)	6490	90	7404	77	480	19	14C	N	Wales
Waun Felen Fignen E188S	-3.674	50.9485	(Smith and Cloutman, 1988)	6210	85	7117	114	480	147	14C	N	Wales
Waun Fignen Felen E188S	-3.674	50.9485	(Smith and Cloutman, 1988)	6210	85	7117	114	480	140	14C	N	Wales
Waun Felen Fignen NE	-3.674	50.9485	(Smith and Cloutman, 1988)	5940	90	6763	108	660	74	14C	N	Wales
Waun Felen Fignen B32S	-3.674	50.9485	(Smith and Cloutman, 1988)	5855	80	6665	93	480	48	14C	N	Wales
Waun Felen Fignen A16W	-3.674	50.9485	(Smith and Cloutman, 1988)	5790	65	6590	82	480	52	14C	N	Wales
Waun Felen Fignen A78E	-3.674	50.9485	(Smith and Cloutman, 1988)	5530	85	6317	74	480	76	14C	N	Wales
Waun Felen Fignen NP	-3.674	50.9485	(Smith and Cloutman, 1988)	5100	80	5848	93	500	110	14C	N	Wales
Waun Felen Fignen E1N	-3.674	50.9485	(Smith and Cloutman, 1988)	4900	80	5631	76	480	42	14C	N	Wales
Waun Felen Fignen SW	-3.674	50.9485	(Smith and Cloutman, 1988)	4370	80	4945	122	530	47	14C	N	Wales
Waun Felen Fignen G00	-3.674	50.9485	(Smith and Cloutman, 1988)	1018	110	930	110	480	504	14C	N	Wales
Waun Felen Fignen D7E	-3.674	50.9485	(Smith and Cloutman, 1988)	4000	70	4464	94	480	148	14C	N	Wales
Cefn Glas	-3.5607	51.7117	(Smith and Green, 1995)	4000		4468	143	490	147	14C	Y	Wales
Cefn Glas	-3.5607	51.7117	(Smith and Green, 1995)	4500		5156	172	491	92	14C	Y	Wales
Hail Storm Hill	-2.2557	53.6663	(Smith and Taylor, 1989)	5830	50	6641	59	460	155	14C	N	N.England
Low Stony Bank	-2.1268	54.0809	(Smith and Taylor, 1989)	1690	60	1589	74	400	88	14C	N	N.England
Banc Nant Rhys	-3.7284	52.3982	(Smith and Taylor, 1989)	4170	50	4732	96	543	185	14C	N	Wales
Carnedd Wen	-3.5929	52.6752	(Smith and Taylor, 1989)	3630	50	3941	69	520	100	14C	N	Wales
Millteir Cerrig	-3.4572	52.8639	(Smith and Taylor, 1989)	2600	50	2731	40	490	100	14C	N	Wales
Pubble	-7.0891	54.9593	(Smith et al., 1981)	2900	70	3034	109	213	50	14C	N	N.Ireland
Cloghornaugh	-7.02	54.92	(Smith et al., 1971b, a)	6160		7049	136			14C		W.Ireland

SITE NAME	LONGITUDE	LATITUDE	REFERENCE	14C DATE (BP)	ERROR	CAL DATE (BP)	ERROR	ALTITUDE	Peat Depth	DATING METHOD	Age extra- polated	REGION
Crockbrack	-6.88	54.8	(Smith et al., 1971b, a)	6250		7164	123			14C		W.Ireland
Leahs Bridge	-6.92	54.78	(Smith et al., 1971b, a)	7640		8433	83			14C		W.Ireland
Salvin Ridge SR3	-1.71	53.4406	(Tallis, 1985)	6300		7221	113	525	220	POLLEN	N	N.England
Featherbed Top FT1	-1.71	53.4406	(Tallis, 1985)	5500		6291	92	540	150	POLLEN	N	N.England
Robinson's Moss AT1	-1.8359	53.4157	(Tallis, 1991)	9100		10255	101	485	450	POLLEN	Y	N.England
Featherbed Moss AT12	-1.71	53.4406	(Tallis, 1991)	8200		9158	144	540		POLLEN	Y	N.England
Alport Moor AM	-1.9336	53.4976	(Tallis, 1991)	8100		9024	139	540	320	POLLEN		N.England
Robinsons Moss AT4	-1.9336	53.4976	(Tallis, 1991)	7800		8585	122	495	335	POLLEN		N.England
Robinson's Moss AT5	-1.9336	53.4976	(Tallis, 1991)	7600		8401	81	485	240	POLLEN	Y	N.England
Featherbed Moss FW3	-1.71	53.4406	(Tallis, 1991)	6800		7643	81	510	270	POLLEN		N.England
Featherbed Moss FW4	-1.71	53.4406	(Tallis, 1991)	6200		7101	132	485	250	POLLEN		N.England
Tintwistle High Moor AT7	-1.9478	53.49	(Tallis, 1991)	6000		6838	127	467	257	POLLEN		N.England
Tintwistle High Moor AT8	-1.9478	53.49	(Tallis, 1991)	5500		6291	92	465	230	POLLEN		N.England
Tintwistle High Moor AT9	-1.9478	53.49	(Tallis, 1991)	5400		6194	114	435	150	POLLEN		N.England
Arnfield AT11	-1.95	53.4872	(Tallis, 1991)	5400		6194	114	450		POLLEN	Y	N.England
Robinson's Moss AT6	-1.9336	53.4976	(Tallis, 1991)	5400		6194	114	485	180	POLLEN	Y	N.England
Featherbed Moss AT13	-1.71	53.4406	(Tallis, 1991)	5400		6194	114	540		POLLEN	Y	N.England
Lady Clough Moor	-1.8434	53.4292	(Tallis and Switsur, 1983)	5410	50	6221	55	480	120	14C	N	N.England
Laund Clough	-1.7633	53.4884	(Tallis and Switsur, 1983)	5110	50	5866	62	455	150	14C	N	N.England
Coldharbour Moor	-1.8916	53.4319	(Tallis and Switsur, 1983)	4670	40	5396	62	435	90	14C	N	N.England
Featherbed Moss (East)	-1.854	53.4319	(Tallis and Switsur, 1983)	4570	65	5275	108	470	50	14C	N	N.England
Robinson's Moss	-1.9336	53.4976	(Tallis and Switsur, 1990)	8950	80	10115	125	500	410	14C	N	N.England
Tintwistle Knarr	-1.9336	53.4976	(Tallis and Switsur, 1990)	4475	55	5119	123	500	70	14C	N	N.England
Clarach	-4.0514	52.4847	(Taylor, 1973)	5970	90	6799	112			14C	N	Wales
Glaslyn	-4.0667	53.0708	(Taylor, 1975)	4220	100	4776	131	480	120	14C	N	Wales
Carneddau 1	-3.492	52.5794	(Walker, 1993)	9200		10361	129	400	220	POLLEN	N	Wales
Carneddau 2	-3.492	52.5794	(Walker, 1993)	9200		10361	129	400	125	POLLEN	N	Wales
Carneddau 4	-3.492	52.5794	(Walker, 1993)	7000		7829	103	400	155	POLLEN	N	Wales
Carneddau 3	-3.492	52.5794	(Walker, 1993)	4710	80	5445	103	400	115	14C	N	Wales
Carneddau 5	-3.492	52.5794	(Walker, 1993)	3450	70	3707	93	400	65	14C	N	Wales
Beahs Forest	-6.18	55.07	(Zurek, 1984)	2620		2731	105			14C		W.Ireland
Beahs Sandpit	-6.18	55.08	(Zurek, 1984)	4040		4524	149			14C		W.Ireland
Breen	-6.23	55.15	(Zurek, 1984)	2890		3024	145			14C		W.Ireland
Crocknamoyle	-6.15	55.12	(Zurek, 1984)	2930		3082	149			14C		W.Ireland
Gruig Top	-6.13	55.1	(Zurek, 1984)	3555		3845	133			14C		W.Ireland
Loughaveema	-6.12	55.15	(Zurek, 1984)	2885		3017	144			14C		W.Ireland

## References:

- Ashmore, P., Brayshay, B. A., Edwards, K. J., Gilbertson, D. D., Grattan, J. P., Kent, M., Pratt, K. E., and Weaver, R. E.: Allochthonous and autochthonous mire deposits, slope instability and palaeoenvironmental investigations in the Borve Valley, Barra, Outer Hebrides, Scotland, *The Holocene*, 10, 97-108, 10.1191/095968300676239809, 2000.
- Barber, J. W., and Brown, M. M.: An Sithean, Islay, *Proc Soc Antiq Scot*, 114, 161-188, 1984.
- Bartley, D. D., and Chambers, C.: A pollen diagram, radiocarbon ages and evidence of agriculture on Extwistle Moor, Lancashire, *New Phytologist*, 121, 311-320, 10.1111/j.1469-8137.1992.tb01117.x, 1992.
- Birks, H. H.: Studies in the vegetational history of Scotland IV: Pine stumps in Scottish blanket peats, *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, B 270, 181-226, 1975.
- Blackford, J. J.: Blanket mires and climatic change: a palaeoecological study based on peat humification and microfossil analysis, PhD, Keele University, UK, 1990.
- Bohncke, S. J. P.: Vegetation and habitation history of the Callanish area, Isle of Lewis, Scotland, in: *The Cultural Landscape - Past, Present and Future*, edited by: Birks, H. H., Birks, H. J. B., Kaland, P. E., and Moe, D., Cambridge University Press, Cambridge, 445-461, 1988.
- Bostock, J. L.: The history of the vegetation of the Berwyn Mountains, North Wales, with emphasis on the development of the blanket mire, PhD, University of Manchester, 1980.
- Bridge, M. C., Haggart, B. A., and Lowe, J. J.: The History and Palaeoclimatic Significance of Subfossil Remains of *Pinus Sylvestris* in Blanket Peats From Scotland, *Journal of Ecology*, 78, 77-99, 10.2307/2261038, 1990.
- Caseldine, C., Thompson, G., Langdon, C., and Hendon, D.: Evidence for an extreme climatic event on Achill Island, Co. Mayo, Ireland around 5200-5100 cal. yr BP, *Journal of Quaternary Science*, 20, 169-178, 10.1002/jqs.901, 2005.
- Chambers, F. M.: Date of blanket peat initiation in upland South Wales, *Quaternary Newsletter*, 35, 24-29, 1981.
- Chambers, F. M.: Two radiocarbon-dated pollen diagrams from high-altitude blanket peats in South Wales, *The Journal of Ecology*, 445-459, 1982.
- Chambers, F. M.: Three Radiocarbon-Dated Pollen Diagrams from Upland Peats North-West of Merthyr Tydfil, South Wales, *Journal of Ecology*, 71, 475-487, 10.2307/2259729, 1983.
- Chambers, F. M., Barber, K. E., Maddy, D., and Brew, J.: A 5500-year proxy-climate and vegetation record from blanket mire at Talla Moss, Borders, Scotland, *Holocene*, 7, 391-399, 10.1177/095968369700700402, 1997.



- Chapman, S. B.: The Ecology of Coom Rigg Moss, Northumberland: II. The Chemistry of Peat Profiles and the Development of the Bog System, *Journal of Ecology*, 52, 315-321, 10.2307/2257598, 1964.
- Charman, D. J.: Origins and development of the Flow Country blanket mire, Northern Scotland, with particular reference to patterned fens, PhD, University of Southampton, 1990.
- Charman, D. J.: Blanket mire formation at the Cross Lochs, Sutherland, northern Scotland, *Boreas*, 21, 53-72, 10.1111/j.1502-3885.1992.tb00013.x, 1992.
- Charman, D. J.: Late-glacial and Holocene vegetation history of the Flow Country, northern Scotland, *New Phytologist*, 127, 155-168, 1994.
- Cundill, P. R.: The distribution, age and formation of blanket peat on the North York Moors, *Proceedings of the North of England Soils Discussion Group 9*, 25-29, 1977.
- Dresser, Q.: University College Cardiff Radiocarbon dates I, *Radiocarbon*, 27, 338-385, 1985.
- Dubois, A. D., and Ferguson, D. K.: The climatic history of pine in the cairngorms based on radiocarbon dates and stable isotope analysis, with an account of the events leading up to its colonization, *Review of Palaeobotany and Palynology*, 46, 55-80, [http://dx.doi.org/10.1016/0034-6667\(85\)90038-7](http://dx.doi.org/10.1016/0034-6667(85)90038-7), 1985.
- Dwyer, R. B., and Mitchell, F. J. G.: Investigation of the environmental impact of remote volcanic activity on north Mayo, Ireland, during the mid-Holocene, *The Holocene*, 7, 113-118, 10.1177/095968369700700111, 1997.
- Edmonds, M., Sheridan, A., and Tipping, R.: Survey and excavation at Creag na Caillich, Killin, Perthshire, *Proc Soc Antiq Scot*, 122, 77-112, 1992.
- Edwards, K. J., Hirons, K. R., and Newell, P. J.: The palaeoecological and prehistoric context of minerogenic layers in blanket peat: a study from Loch Dee, southwest Scotland, *The Holocene*, 1, 29-39, 10.1177/095968369100100105, 1991.
- Ellis, C. J., and Tallis, J. H.: Climatic control of peat erosion in a North Wales blanket mire, *New Phytologist*, 152, 313-324, 10.1046/j.0028-646X.2001.00259.x, 2001.
- Ellis, C. J.: Interactions between hydrology, burning and contrasting plant groups during the millennial-scale development of sub-montane wet heath, *Journal of Vegetation Science*, 19, 693-U657, 10.3170/2008-8-18439, 2008.
- Eydt, H. R.: A pollen diagram from a blanket bog in the Campsie Fells *Trans. bot. Soc. Edinb.*, 39, 1, 1960.
- Fyfe, R. M., and Woodbridge, J.: Differences in time and space in vegetation patterning: analysis of pollen data from Dartmoor, UK, *Landscape Ecol*, 27, 745-760, 10.1007/s10980-012-9726-3, 2012.

- Goddard, A.: Studies of the vegetational changes associated with the initiation of blanket peat accumulation in North-East Ireland, PhD, Queen's University, Belfast, 1971.
- Godwin, H., and Willis, E. H.: Studies of the post-glacial history of British vegetation. III. Fenland pollen diagrams. IV. Post glacial changes of relative land and sea-level in the English fenland, *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, B.230, 239-303, 1961.
- Hakansson, S.: University of Lund Radiocarbon Dates XVIII, *Radiocarbon*, 28, 141-164, 1986.
- Harkness, D. D.: Scottish Universities Research and Reactor Centre, radiocarbon measurements IV, *Radiocarbon*, 23, 252-304, 1981.
- Honeyman, A.: Studies in the Holocene vegetation history of Wensleydale, School of Geography, University of Leeds, Leeds, 323 pp., 1985.
- Jones, V. J.: A palaeoecological study of the post-glacial acidification of the Round Loch of Glenhead and its catchment, PhD, University of London, 1987.
- Keatinge, T. H., and Dickson, J. H.: Mid-Flandrian changes in vegetation on mainland Orkney, *New Phytologist*, 82, 585-612, 10.2307/2433557, 1979.
- Langdon, P. G., and Barber, K. E.: New Holocene tephra and a proxy climate record from a blanket mire in northern Skye, Scotland, *Journal of Quaternary Science*, 16, 753-759, 10.1002/jqs.655, 2001.
- Maguire, D. J.: The inception and growth of blanket peat: a study of northern Dartmoor, PhD, University of Bristol, 1983.
- Mighall, T. M., and Chambers, F. M.: The environmental impact of prehistoric copper mining at Copa Hill, Cwmystwyth, Wales, *The Holocene*, 3, 260-264, 1993.
- Mills, C.: Unpublished data.
- Moar, N. T.: A radiocarbon-dated pollen diagram from North-West Scotland, *New Phytologist*, 68, 209-214, 10.1111/j.1469-8137.1969.tb06434.x, 1969.
- O'Connell, M.: Origins of lowland Irish blanket bog, in: *Ecology and Conservation of Irish Peatlands*, edited by: Doyle, G. J., Royal Irish Academy, Dublin, 49-71, 1990.
- Robinson, D.: Investigations into the Aukhorn peat mounts, Keiss, Caithness: pollen, plant macrofossil and charoal analyses, *New Phytologist*, 106, 185-200, 10.1111/j.1469-8137.1987.tb04802.x, 1987.
- Simmons, I. G., and Innes, J. B.: Tree remains in a North York Moors peat profile, *Nature*, 294, 76-78, 1981.

- Smith, A. G., Pearson, G. W., and Pilcher, J. R.: BELFAST RADIOCARBON DATES IV, *Radiocarbon*, 13, 450-&, 1971a.
- Smith, A. G., Pearson, G. W., and Pilcher, J. R.: BELFAST RADIOCARBON DATES III, *Radiocarbon*, 13, 103-&, 1971b.
- Smith, A. G., Gaskell-Brown, C., Goddard, I. C., Goddard, A., Pearson, G. W., and Dresser, P. Q.: Archaeology and environmental history of a barrow at Pubble, Loughermore, Townland, County Londonderry., *Proceedings of the Royal Irish Academy*, 81C, 29–66, 1981.
- Smith, A. G., and Cloutman, E. W.: Reconstruction of Holocene vegetation history in three dimensions at Waun-Fignen-Felen, an upland site in South Wales, *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 322, 159-219, 10.2307/2398747, 1988.
- Smith, A. G., and Green, C. A.: Topogenous peat development and late- Flandrian vegetation history at a site in upland South Wales, *The Holocene*, 5, 172-183, 10.1177/095968369500500205, 1995.
- Smith, R. T., and Taylor, J.: Biopedological processes in the inception of peat formation, *International Peat Journal*, 3, 1-24, 1989.
- Tallis, J. H., and Switsur, V. R.: Forest and Moorland in the South Pennine Uplands in the Mid-Flandrian Period: I. Macrofossil Evidence of the Former Forest Cover, *Journal of Ecology*, 71, 585-600, 10.2307/2259736, 1983.
- Tallis, J. H.: Mass Movement and Erosion of a Southern Pennine Blanket Peat, *Journal of Ecology*, 73, 283-315, 10.2307/2259784, 1985.
- Tallis, J. H., and Switsur, V. R.: Forest and Moorland in the South Pennine Uplands in the Mid-Flandrian Period.: II. The Hillslope Forests, *Journal of Ecology*, 78, 857-883, 10.2307/2260940, 1990.
- Tallis, J. H.: Forest and moorland in the South Pennine uplands in the Mid-Flandrian Period .3. The spread of moorland local regional and national, *Journal of Ecology*, 79, 401-415, Doi 10.2307/2260722, 1991.
- Taylor, J.: Chronometers and chronicles: a study of palaeo-environments in west Central Wales, *Progress in Geography*, 5, 247–334, 1973.
- Taylor, J.: The distribution of peat deposits in the British Isles, in: *Soil organic matter*; ed. by R.G. Wyn Jones, 2-15; Welsh Soils Discussion Group, Report No. 16, 1975.
- Walker, M. J. C.: Holocene (Flandrian) vegetation change and human activity in the Carneddau area of upland mid-Wales, in: *Climate Change and Human Impact on the Landscape*, edited by: Chambers, F. M., Springer Netherlands, 169-183, 1993.
- Zurek, S.: Organic matter accumulation in European peatlands (on the basis of 14C data), 7th International Peat Congress, Dublin, 1984.