

Table S3A. List of samples used to create the pollen-based reconstruction of tree cover at LGM presented in Fig. 1. Complete metadata for entities contributed to the European Pollen Database (EPD) and Pangaea data library may be found at their respective web sites (EPD, Pangaea). The dating code is explained in table S4.

Site	Source	Site Name	SiteType	Longitude (deg E)	Latitude (deg N)	Elevation (m)	Age of Sample/s (cal. BP)	Dating code	Ref. No. (when not in database)
1	EPD (E#1472)	MD95-2039	Marine Core	-10.35	40.58	-3'381	21'067	1C	
2	Digitised	Carn Morval	Lake	-6.31	49.93	5	20'668	2C	(1)
3	Digitised	Las Devotas	Colluvium	-5.80	42.58	710	22'820	1D	(2)
4	Digitised	Gorham Cave	Cave	-5.30	36.02	0	21'000	1D	(3)
5	Author	Dozmary Pool	Lake	-4.54	50.53	265	21'707	1C	(4)
6	Digitised	Cova di Carihuela	Cave	-3.43	37.45	1'020	19'010	1D	(5)
7	Digitised	Padul	Peat Bog	-3.07	37.00	785	22'056	1C	(6)
8	EPD (E#539)	Quintanar de la Sierra	Lake	-3.02	42.03	1'470	20'446	3C	
9	EPD (E#574)	San Rafael	Peat Bog	-2.60	36.77	0	20'295	1D	
10	Digitised	Siles	Lake	-2.30	38.24	1'320	20'345	1D	(7)
11	Digitised	Torreçilla de Valmadrid	Colluvium	-0.90	41.45	570	20'456	1D	(8)
12	EPD (E#469)	Navarrés	Peat bog	-0.68	39.10	225	19'104	1D	
13	EPD (E#470)	Navarrés	Peat bog	-0.68	39.10	225	19'142	1D	
14	Digitised	El Portalet (peatbog)	Peat Bog	-0.40	42.80	1'802	21'000	4C	(9)
15	Digitised	Tramacastilla paleolake	Lake	-0.40	42.73	1'640	20'600	1D	(2)
16	Digitised	Formigal paleolake	Lake	-0.40	42.79	1'585	20'120	1D	(2)
17	Digitised	Tourbiere de l'Estarres	Lake	-0.38	43.09	356	21'000	1C	(10)
18	Digitised	Cova de les Malladetes	Cave	-0.32	39.06	20	19'686	1D	(11)
19	EPD (E#972)	Saint-Ursin	Peat Bog	-0.25	48.52	234	21'945	6C	
20	Digitised	Biscaye	Lake	-0.08	43.03	409	20'163	6C	(12)
21	Digitised	Lourdes	Lake	-0.08	43.03	430	20'730	1C	(12)
22	Digitised	Lake Estanya	Lake	0.53	42.03	670	19'500	1D	(13)
23	Digitised	Freychinede	Lake	1.43	42.78	1'350	21'000	2C	(14)
24	EPD (E#931)	Banyoles	Lake	2.75	42.13	173	21'008	1D	
25	EPD (E#1293)	Lac du Bouchet	Lake	3.78	44.92	1'200	21'084	1C	
26	EPD (E#1474)	MD99-2348 (103)	Marine core	3.84	42.69	-296	20'657	1C	
27	EPD (E#381)	Le Grand Lemps	Peat bog	5.42	45.47	500	19'824	3C	
28	Digitised	La Grotte Walou	Cave	5.54	50.59	252	21'200	1D	(15)
29	EPD (E#920)	Peuil Peat Bog	Peat bog	5.64	45.13	970	19'690	6C	
30	EPD (E#933)	Correo	Peat bog	5.98	44.51	1'090	20'810	1D	
31	EPD (E#935)	La Grande Pile	Peat bog	6.50	47.73	330	20'859	1C	
32	Digitised	Laghi dell'Orgials	Lake	7.04	44.04	2'240	21'000	6C	(16)
33	EPD (E#394)	Lobsigensee	Lake	7.30	47.03	514	19'356	4C	
34	EPD (E#1452)	Lago Piccolo di Avigliana	Lake	7.39	45.23	356	19'361	5C	
35	EPD (E#1125)	Chutti Boltigen	Peat bog	7.39	46.63	925	20'938	6C	
36	EPD (E#63)	Amsoldingensee	Lake	7.58	46.72	641	20'294	6C	
37	Digitised	Pilsensee	Lake	11.19	48.03	534	21'000	1D	(17)
38	EPD (E#1208)	Lanser Moor	Peat Bog	11.42	47.24	840	19'511	4C	
39	Digitised	Orgiano	Peat Bog	11.43	45.29	19	20'531	1C	(18)
40	Digitised	Lago della Costa	Lake	11.74	45.27	7	21'000	1C	(19)
41	EPD (E#916)	Lagaccione	Lake	11.85	42.57	355	20'925	1C	
42	EPD (E#929)	Lago Vico	Lake	12.17	42.32	510	21'257	1C	

Site	Source	Site Name	SiteType	Longitude (deg E)	Latitude (deg N)	Elevation (m)	Age of Sample/s (cal. BP)	Dating code	Ref. No. (when not in database)
43	EPD (E#1186)	Egelsee	Lake	12.17	47.61	549	19'210	6C	
44	Digitised	Stracciacappa	Lake	12.32	42.13	220	21'000	3D	(20)
45	Digitised	Lago di Monterosi	Lake	12.43	42.22	237	21'616	1D	(21)
46	Digitised	Travesio	Lake	12.87	46.20	220	22'483	1D	(22)
47	Digitised	Azzano Decimo	Outwash plain	12.90	45.87	10	21'637	1D	(23)
48	EPD (E#179)	Colfiorito	Peat bog	12.93	43.03	752	19'210	6C	
49	Digitised	Rio Ponte	Lake	12.98	46.18	280	22'909	1D	(22)
50	Digitised	Rio Doidis	Lake	13.19	46.12	152	22'691	1D	(22)
51	Digitised	Billerio	Lake	13.21	46.22	300	21'872	1D	(22)
52	Digitised	Castiglione	Lake	13.25	42.48	44	21'000	1C	(24)
53	Digitised	Kersdorf-Briesen	Lake	14.27	52.33	44	21'183	1D	(25)
54	EPD (E#932)	Lago Grande di Monticchio	Lake	15.60	40.94	1'326	19'703	1C	
55	EPD (E#1397)	Nagy-Mohos	Peat bog	20.44	48.33	270	21'044	1C	
56	Digitised	Safarka	Peat bog	20.58	48.88	600	21'912	1D	(26)
57	Digitised	Feher Lake	Lake	20.65	46.45	86	21'249	1C	(27)
58	Pangaea	Lake Ohrid	Lake	20.76	40.94	693	20'845	6C	
59	Digitised	Lake Prespa	Lake	20.98	40.96	849	21'000	6D	(28)
60	EPD (E#976)	Lake Xinias	Lake	22.27	39.05	500	20'650	4C	
61	EPD (E#18)	Avrig	Peat bog	24.38	45.72	400	19'148	4C	
62	Digitised	Mickunai	Lake	25.53	54.72	143	21'000	1D	(29)
63	Digitised	Lake Sfanta Anna (Saint Anne)	Lake	25.89	46.13	946	20'955	1D	(30)
64	Digitised	Lesvos ML01 Megali Limni	Lake	26.30	39.10	323	22'906	1D	(31)
65	Digitised	Atolov Straldzha	Lake	26.77	42.63	138	21'000	5D	(32)
66	EPD (E#319)	Kararmik Batakligi	Peat bog	30.80	38.43	1'000	20'722	5D	
67	EPD (E#977)	Yeniçaga Gölü	Peat bog	32.03	40.78	987	19'046	6C	
68	Pangaea	M72/5_628-1	Marine core	36.62	42.10	-418	21'257	1C	
69	Digitised	Dziguta_Core 1	Peat bog	41.07	42.99	35	21'000	2C	(33)
70	Pangaea	Lake Van LG	Lake	42.67	38.67	1'649	21'019	1C	
71	EPD (E#714)	Lake Zeribar	Lake	46.12	35.53	1'286	20'794	3C	

Table S3B. Legend for the dating code column in Table S3A

Code	Description
1C	Bracketing dates within 2000 yr interval about the time being assessed
2C	Bracketing dates, one within 2000 yr and the second within 4000 yr of the time being assessed
3C	Bracketing dates within 4000 yr interval about the time being assessed
4C	Bracketing dates, one being within 4000 yr and the second being within 6000 yr of the time being assessed
5C	Bracketing dates within 6000 yr interval about the time being assessed
6C	Bracketing dates, one within 6000 yr and the second within 8000 yr of the time being assessed
7C	Poorly dated
1D	Date within 250 yr of the time being assessed
2D	Date within 500 yr of the time being assessed
3D	Date within 750 yr of the time being assessed
4D	Date within 1000 yr of the time being assessed
5D	Date within 1500 yr of the time being assessed
6D	Date within 2000 yr of the time being assessed
7D	Poorly dated

References for Table S3A

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