

Table S2

Site layer	location	Context	chronological attribution	GL	SB	sex	ref
Ursus arctos, Metatarsal III							
ancient							
Wolffhöhle	Austria (Totes Gebirge)	paleontological	7570–7430 Cal BP	73.30	11.15		Withalm, 1999
Windener Bärenhöhle	Austria (Burgenland)	paleontological	ca 30 Kyr	80.10	15.2		Withalm, 2001
Grotte de Vaucluse	France (Doubs)	paleontological		89.80	14.8		Schweizer, 1999
Grotte de Vaucluse	France (Doubs)	paleontological		99.60	16.2		Schweizer, 1999
Grotte de la Chênelaz,C4	France (Ain)	paleontological		70.70	11.6		Schweizer, personal communication
Grotte de la Chênelaz	France (Ain)	paleontological		74.20	11.2		Schweizer, personal communication
Grotte de la Chênelaz,C2	France (Ain)	paleontological		85.00	14.7		Schweizer, personal communication
Horbourg-Wihr "Kreutzfeld"	France (Haut-Rhin)	archaeological	1st-3rd cent. AD	81.79	12.31		Putelat, 2012
Grotte du Bignalats	France (Pyrénées-Atlantiques)	archaeological		79.30	12.7		Altuna et Marsan, 1986
Brillenhöhle X	Germany (Baden-Württemberg)	archaeological	Aurignacian	88.00	14.5		Boessneck et al., 1973
Furninha	Portugal (Extremadura)	archaeological	Mousterian	76.80	12.6		Torres Perez Hidalgo, 1988
Grotta Fontuinhas	Portugal (Extremadura)	paleontological		84.00	14.7		Torres Perez Hidalgo, 1988
Grotta Fontuinhas	Portugal (Extremadura)	paleontological		84.30	14.8		Torres Perez Hidalgo, 1988
Cueva de la Bodega	Spain (Asturias)	paleontological		89.60	14.7		Torres Perez Hidalgo, 1988
Cueva de Saldarrano	Spain (Burgos)	paleontological		75.10	11.3		Torres Perez Hidalgo, 1988
Cueva de Saldarrano	Spain (Burgos)	paleontological		86.70	14.3		Torres Perez Hidalgo, 1988
Uribe-arruako Lezia I	Spain (Guipuzkoa)	paleontological		82.50	11.7	MALE ?	Altuna, 1973
Gasteluko Koba	Spain (Guipuzkoa)	paleontological		81.50	14	MALE	Altuna, 1973
Urkizetako Lezia III	Spain (Guipuzkoa)	paleontological		62.50	10.2	FEMALE	Altuna, 1973
Aketegi I.	Spain (Guipuzkoa)	paleontological		75.00	10.7	FEMALE	Altuna, 1973
Karatximeko Koba	Spain (Guipuzkoa)	paleontological		70.50	11.6	FEMALE	Altuna, 1973
Lezetxiki VI	Spain (Guipuzkoa)	archaeological	interstade Würm I-II	79.30	12.7		Altuna, 1973
Lezetxiki	Spain (Guipuzkoa)	archaeological		78.00	13.2		Torres Perez Hidalgo, 1988
Lezetxiki	Spain (Guipuzkoa)	archaeological		79.70	13.4		Torres Perez Hidalgo, 1988
SiMA Uribe	Spain (Guipuzkoa)	paleontological		82.40	13		Torres Perez Hidalgo, 1988
Cueava de Aketegui	Spain (Guipuzkoa)	paleontological		75.40	11		Torres Perez Hidalgo, 1988
Urkizetako kola	Spain (Guipuzkoa)	paleontological		62.40	10.80		Torres Perez Hidalgo, 1988
Sima T-20	Spain (Santander)	paleontological		76.40	11.6		Torres Perez Hidalgo, 1988
Sima T-20	Spain (Santander)	paleontological		76.80	11.6		Torres Perez Hidalgo, 1988
Grotte des Plantigrades	Switzerland (Vaud)	paleontological		67.9	10.50		Schweizer, 1999
Grotte des Plantigrades	Switzerland (Vaud)	paleontological		73.8	11.60		Schweizer, 1999
Grotte des ours	Switzerland (Vaud)	paleontological		80.9	12.00		Schweizer, personal communication
Grotte de Chéveresse	Switzerland (Fribourg)	paleontological		62.9	10.20		Schweizer, 1999
Sagogn (ab 12)	Switzerland (Graubünden)	archaeological	Middle Ages	74.00	11		Küpper, 1972
Sagogn (ab 12)	Switzerland (Graubünden)	archaeological	Middle Ages	68.00	10		Küpper, 1972
Sagogn (11-14)	Switzerland (Graubünden)	archaeological	Middle Ages	76.50	12		Küpper, 1972
Sagogn (9-12)	Switzerland (Graubünden)	archaeological	Middle Ages	82	10.50		Küpper, 1972
recent							
Museum Genève (Dpt mammalogy)	Zoo	unknown	recent	75.10	10.2	MALE	Schweizer, 1999 B-69, p.81
Museum Genève (Dpt mammalogy)	unknown	unknown	recent	64.30	9		Schweizer, 1999 B-69, p.81
Museum Genève (Dpt archaeozoology)		France (Doubs)	recent	64.90	9.6		Schweizer, 1999 B-69, p.81
Zoo Innsbruck	Zoo	Unknown	recent	81.60	10.2		Schweizer, personal communication
Museum Bern	fosse aux ours	Unknown	recent	74.20	11.5		Schweizer, personal communication
Museum Bern	fosse aux ours	Unknown	recent	93.20	11.9		Schweizer, personal communication
Museum Halle	Zoo	Unknown	recent	76.00	9	FEMALE	Müller, 1971
Martin-Luther University Halle	unknown	unknown	1835	72.00	10		Müller, 1971
Universität Erlangen-Nürnberg	Zoo	unknown	recent	87.05	11.08		Athen,2007: ANNEXE X-330
Museum Vienna	unknown	Bulgaria	recent	72.70	9.86		Athen,2007: ANNEXE X-330
Museum Basel	Zoo	unknown	recent	73.07	9.17		Athen,2007: ANNEXE X-330
Museum Basel	unknown	Finland	recent	66.24	9.42		Athen,2007: ANNEXE X-330
British Museum London	Zoo	unknown	recent	106.63	15.07		Athen,2007: ANNEXE X-330
British Museum London	unknown	North America	recent	77.89	10.40		Athen,2007: ANNEXE X-330
University Tuebingen (Archaeozoology)	Ursus arctos horribilis	Alaska	recent	74.30	11.90		Münzel, personal communication