

Table S1. Sample locations, burial ages, and erosion rates from ^{26}Al and ^{10}Be in cave sediments. Longitude (Lon.) and latitude (Lat.) are given for the cave entrance but the altitude (Alt.) and the elevation relative to the base level are given for the sample. The Bueges river is a tributary of the Hérault river. All the details are given for the samples from this study (ts) and new computation of Malcles et al. (2020) (M), ages and relative elevations are given for Vernet et al. (2008) (V) and Sartégou et al. (2018) studies.

Sample	Lon. [°N]	Lat. [°E]	Alt. [m]	Elevation relative to regional base level [m]	^{26}Al [10^4 atoms/g]	^{10}Be [10^4 atoms/g]	Burial age and uncertainties [Ma]	Erosion rate and uncertainties [m/Ma]	Nearest river	study
<i>Caves with entrances close from riverside cliffs</i>										
Bergougous (amalgam)	3.493	43.889	426	117	77.87 \pm 3.46	20.15 \pm 0.4	1.12 +0.12/-0.13	12.3 +1.1/-1	Vis	ts
Scorpions (amalgam)	3.625	43.885	275	85	25.25 \pm 1.12	5.73 \pm 0.15	0.91 +0.15/-0.14	46.9 +4.6/-4.6	Vis	ts
Scorpions (cobble 1)	3.625	43.885	275	85	26.4 \pm 1.09	6.04 \pm 0.13	0.93 +0.13/-0.12	43.9 +3.7/-3.7	Vis	ts
Scorpions (cobble 2)	3.625	43.885	275	85	43.63 \pm 1.83	9.63 \pm 0.24	0.84 +0.13/-0.13	27.9 +2.7/-2.4	Vis	ts
Scorpions (cobble 3)	3.625	43.885	275	85	9.82 \pm 0.58	2.53 \pm 0.08	1.25 +0.2/-0.19	96.2 +12.6/-11.2	Vis	ts
Scorpions (cobble 4)	3.625	43.885	275	85	33.57 \pm 1.35	8.15 \pm 0.2	1.05 +0.12/-0.13	29.9 +3/-2.4	Vis	ts
Scorpions (cobble 5)	3.625	43.885	275	85	25.15 \pm 1.22	6.17 \pm 0.17	1.08 +0.16/-0.15	39.9 +4.4/-4.1	Vis	ts
Escoutet (amalgam)	3.626	43.885	220	30	20.44 \pm 1.28	5.72 \pm 0.13	1.39 \pm 0.18	35.8 +4.2/-3.9	Vis	ts
Escoutet (cobble 2)	3.626	43.885	220	30	26.32 \pm 2.37	6.32 \pm 0.15	1.05 +0.25/-0.23	37.9 +5.7/-5.1	Vis	ts
Escoutet (cobble 3)	3.626	43.885	220	30	10.08 \pm 0.51	2.16 \pm 0.11	0.87 +0.23/-0.22	¹ 34.1 +20.7/-19.4	Vis	ts
Escoutet (cobble 5)	3.626	43.885	220	30	20.4 \pm 2.72	4.47 \pm 0.12	0.87 +0.36/-0.32	60 +11.5/-10.9	Vis	ts
Troglodyte (amalgam)	3.469	43.744	485	435	2.47 \pm 0.63	5.17 \pm 0.13	5.43 +0.59/-0.48	5.6 +1.8/-1.6	Hérault	ts
Cave des Chiens	3.619	43.759	218	142	3.61 \pm 0.91	2.18 \pm 0.06	3.33 +0.87/-0.65	37.6 +16.2/-14.2	Hérault	ts
Bois de Merle 2	3.614	43.755	273	197	9.96 \pm 1.72	8.44 \pm 0.2	4.1 +0.61/-0.47	6.1 +2/-1.9	Hérault	ts
Garrel (Baignoire)	3.615	43.834	184	31	30.51 \pm 3.47	9.26 \pm 0.21	1.46 +0.28/-0.25	19.2 +3.2/-3.1	Hérault	ts
Garrel (Marmite)	3.615	43.834	200	47	30.32 \pm 2.16	7.26 \pm 0.17	1 +0.19/-0.17	32.1 +3.7/-3.7	Hérault	ts

Bord de Route (amalgam)	3.709	43.954	175	20	21.6 ±0.15	3.54 ±1.18	0.39	+0.94/-0.38	103 .7	+22.6/-47.9	Rieutord	ts, M
Camp de Guerre (amalgam)	3.710	43.955	190	30	42.9 ±0.31	8.87 ±3.28	0.7	+0.62/-0.7	30	+32.7/-14.3	Rieutord	ts, M
Dugou (amalgam)	3.710 5	43.957	245	80	4.29 ±0.06	1.27 ±0.33	1.6	+0.54/-0.7	1 64.2	+148.3/-66.4	Rieutord	ts, M
Cuillere (amalgam)	3.710 1	43.957	354	189	3.75 ±0.07	1.7 ±0.53	2.41	+0.59/-0.83	82.5	+103/-36.4	Rieutord	ts, M
Clauside (amalgam)	3.71	43.96	487	317	3.16 ±0.67	1.14 ±0.08	²⁶ Al and ¹⁰ Be concentrations are inconsistent for a proper burial age computation			Rieutord	ts	
Gr. Calles (amalgam, balcony)	3.537	43.964	470	190	64.52 ±2.79	24.73 ±0.57	1.89	+0.13/-0.12	7.4	±0.7	Arre	ts
Gr. Calles (amalgam, bottom)	3.537	43.964	470	190	13.41 ±1.67	7.67 ±0.17	2.77	+0.29/-0.27	14.8	+2.6/-2.3	Arre	ts
Gr. Calles (amalgam, bottom)	3.537	43.964	470	190	16.6 ±1.12	7.87 ±0.18	2.4	+0.17/-0.18	17.6	+2.2/-1.8	Arre	ts
Gr. Calles (amalgam, top)	3.537	43.964	480	200	36.02 ±2.88	14.67 ±0.31	2.05	+0.2/-0.19	11	+1.4/-1.3	Arre	ts
Gr. Calles (amalgam, entrance passage)	3.537	43.964	510	230	50.83 ±3.07	20.27 ±0.5	1.99	+0.15/-0.16	8.2	+1/-0.8	Arre	ts
Caves with entrances away from riverside cliffs												
Rocas (amalgam)	3.482	43.841	310	552	171.96 ±7.17	41.35 ±0.87	0.93	+0.11/-0.12	7	+0.7/-0.5	Vis	ts
Rocas (amalgam, repeat)	3.482	43.841	310	552	175.4 ±6.7	47.34 ±1.56	1.15	+0.12/-0.14	5.4	+0.6/-0.5	Vis	ts
Fonctionnaire (amalgam)	3.467	43.805	278	520	207.82 ±9.87	39.73 ±0.78	0.47	±0.13	9.1	+0.9/-0.8	Vis or Herault	ts
Fonctionnaire (amalgam, repeat)	3.467	43.805	278	520	226.86 ±8.79	38.89 ±0.98	0.26	±0.12	10.5	+1/-0.9	Vis or Herault	ts
Huttes (amalgam, bottom)	3.496	43.814	463	705	1.43 ±0.46	0.95 ±0.04	3.18	+0.93/-0.68	1 33.6	+63.1/-52.6	Vis	ts
Huttes (amalgam, top)	3.496	43.814	473	715	7.35 ±1.46	10.67 ±0.23	5.99	+1.19/-0.76	2.6	+1.5/-1.4	Vis	ts
Leicasse (amalgam, gours sur pattes)	3.558	43.817	245	460	44.55 ±1.87	9.9 ±0.21	0.84	+0.13/-0.12	31.1	±2.6	Vis or Herault (Bueges)	ts
Leicasse (amalgam,	3.558	43.817	220	435	33.61 ±1.4	7.55 ±0.16	0.87	+0.13/-0.11	39.7	+3.3/-3.4	Vis or Herault	ts

Première Salle)												(Bueges)	
Leicasse (cobble 1, coulee Borg)	3.558	43.817	240	455	1.32 ±0.4	1.44 ±0.04	4.15	+0.78/-0.58	41.2	+15.9/-14.4		Vis or Herault (Bueges)	ts
Leicasse (cobble 2, coulee Borg)	3.558	43.817	240	455	1.58 ±0.15	1.15 ±0.05	3.31	+0.28/-0.25	80.1	+14.5/-13.6		Vis or Herault (Bueges)	ts
Leicasse (cobble 3, coulee Borg)	3.558	43.817	240	455	1.13 ±0.33	0.46 ±0.04	2.18	+0.85/-0.7	358.3	+197.3/-141.5		Vis or Herault (Bueges)	ts
Leicasse (cobble 5, coulee Borg)	3.558	43.817	240	455	1.41 ±0.48	0.41 ±0.04	1.46	+1.03/-0.8	583.7	+378.4/-266.9		Vis or Herault (Bueges)	ts
Leicasse (cobble 6, coulee Borg)	3.558	43.817	240	455	1.79 ±0.6	1.13 ±0.04	3.03	+0.89/-0.65	93.8	+41.8/-36.3		Vis or Herault (Bueges)	ts
Other studies													
Caze n°1	3.279	44.207	---	80	---	---	1.75	±0.3	---	---		Tarn	S
Airetta	3.301	44.210	---	80	---	---	1.49	±0.3	---	---		Jonte	S
Amélineau	3.311	44.206	---	45	---	---	0.49	±0.3	---	---		Jonte	S
Dargilan	3.377	44.196	---	270	---	---	3.55	±0.2	---	---		Jonte	S
Devès-Méjean	3.331	44.208	---	160	---	---	2.6	±0.6	---	---		Jonte	S
Gr. Nabrigas	3.382	44.202	---	290	---	---	3.6	±0.2	---	---		Jonte	S
Jas del Rabier	3.364	44.206	---	250	---	---	2.55	±0.4	---	---		Jonte	S
Poujol	3.363	44.204	---	220	---	---	2.35	±0.2	---	---		Jonte	S
Travertin « Via »	3.024	44.087	---	25		OSL Dating	0.075	±0.01	---	---		Tarn	V
Travertin « Comp »	2.990	44.087	---	25		OSL Dating	0.074	±0.009	---	---		Tarn	V
Travertins « Roq »	3.051	44.085	---	35		OSL Dating	0.273	±0.023	---	---		Tarn	V