

Summary of g10s10 data set. We changed 100 randomly selected ones to zeros. We have used 12 chains with the smallest negative log-likelihood in the following analysis (log-likelihood within  $1\sigma$  of the best chain).

$$E\{c\} = 0.0102 \pm 0.0011.$$

$$E\{d\} = 0.5378 \pm 0.0109.$$

$$E\{-\log P(X | \theta)\} = -3367.7 \pm 24.2.$$

$$E\{\text{corr}(\pi, MN)\} = 0.951.$$

$$E\{\text{corr}(\pi, DBAGE)\} = -0.947.$$

Out of randomly picked 1s, 7.3 % are false (1F).

Out of randomly picked 0s, 13.2 % are false (0F).

Out of dead (sites,genera) pairs, 1.0 % are false ( $\hat{c}$ ).

Out of alive (sites,genera) pairs, 53.8 % are false ( $\hat{d}$ ).

12 chains, average Hellinger dispersion is 0.003740.

In the following tables we show the site ordering. First we give the site index, used in the figures. Then we give the site name, followed by the MN classification and data base age. Star (“\*”) denotes a hard site.

Next we give an expectation and variance of the order number,  $\pi(n)$ . It is followed by number of ones in that site (1s). Next we give the expected number of genera alive on that site (AL). 1F and 0F denote the probability that any 0 or 1 associated with the site is false.  $\hat{c}$  and  $\hat{d}$  denote the probability of 1 or 0 when the species is dead or alive, respectively.  $O_{n-1,n}$  denotes the probability that the site is actually older than the previous site. This number should usually be  $< 0.5$ .

$n$	Site [MN,DBAGE]	$E\{\pi\}$	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$O_{n-1,n}$
1	Laugnac [2,21.38] *	1.336 ± 1.148	11	12.710	0.188788	0.029586	0.016444	0.297947	-
2	Wintershof West [3,19] *	2.418 ± 1.270	10	17.546	0.106108	0.066723	0.008737	0.490549	0.000000
3	Esvres Continental Sands [3,19.5]	3.735 ± 1.228	18	23.703	0.021463	0.050324	0.003351	0.256896	0.042333
4	Savigné sur Lathan [5,16.1]	5.154 ± 3.121	13	26.527	0.177519	0.125671	0.020518	0.596927	0.242167
5	Artesilla [4,17.5]	5.355 ± 1.768	12	25.088	0.085910	0.111171	0.009050	0.562771	0.363167
6	Artenay [4,17.5]	5.695 ± 1.681	17	26.971	0.052480	0.089044	0.007964	0.402778	0.505000
7	Els Casots [4,17.5]	7.724 ± 2.824	10	26.624	0.095500	0.136271	0.008498	0.660269	0.176583
8	Erkertshofen 2 [4,17.5]	8.947 ± 2.881	11	27.941	0.013053	0.133474	0.001293	0.611453	0.428667
9	Buñol [4,17.5]	9.283 ± 1.657	12	28.779	0.006792	0.132764	0.000739	0.585868	0.422167
10	Rothenstein 1 [5,16.1]	11.144 ± 2.589	10	29.628	0.004708	0.152524	0.000430	0.664076	0.285667
11	Montreal du Gers [4,17.5]	12.149 ± 4.500	12	30.581	0.141451	0.159669	0.015656	0.663100	0.369167
12	Bézian [4,17.5]	12.451 ± 2.205	20	31.471	0.026529	0.100856	0.004934	0.381360	0.573583
13	Engelswies [5,16.6]	12.983 ± 4.339	10	30.551	0.092583	0.166486	0.008537	0.702981	0.532000
14	La Romieu [4,17.5] *	13.764 ± 2.441	13	31.151	0.001404	0.144199	0.000169	0.583262	0.393167
15	Baigneaux en Beauce [5,16.1]	15.325 ± 4.115	14	32.924	0.093685	0.161883	0.012365	0.614612	0.382333
16	Pellecahus [4,17.5]	15.406 ± 2.079	20	32.754	0.024217	0.111250	0.004559	0.404182	0.491833
17	Sandelzhausen [5,16.1]	15.702 ± 4.187	15	32.419	0.022150	0.143153	0.003117	0.547553	0.466500
18	Castelnau d'Arbieu [6,13.85]	18.463 ± 3.223	11	34.380	0.023894	0.184709	0.002512	0.687691	0.311583
19	Hambach 6C [6,13.85]	19.682 ± 2.101	12	35.772	0.003375	0.187498	0.000392	0.665672	0.333333
20	Contres MN 5 [5,16.1]	20.041 ± 1.710	19	36.338	0.002732	0.144919	0.000506	0.478566	0.433250
21	Pontlevoy [5,16.1] *	20.615 ± 1.854	21	36.787	0.093365	0.150401	0.019182	0.482439	0.393083
22	Vieux Collonges [5,16.6]	21.014 ± 3.788	13	36.489	0.093827	0.196100	0.011899	0.677155	0.461083
23	Thannhausen [6,13.85]	23.138 ± 1.986	13	38.692	0.066372	0.210757	0.008602	0.686317	0.271667
24	Esvres Marine Faluns [5,16.1]	23.527 ± 1.740	36	40.732	0.052873	0.064420	0.019370	0.162901	0.418833
25	Stätzling [6,13.85]	24.934 ± 1.496	16	39.991	0.008365	0.196135	0.001352	0.603254	0.224250
26	Inönü I (AS 24A) [6,13.85]	25.665 ± 7.886	10	36.849	0.040817	0.211300	0.003996	0.739702	0.190500
27	Neudorf Spalte [6,13.85]	26.221 ± 3.666	10	38.401	0.006600	0.220671	0.000656	0.741305	0.612583
28	Göriach [5,16.1]	28.164 ± 2.121	17	39.342	0.053902	0.190638	0.009195	0.591178	0.318583
29	Belometchetskaja [5,16.1]	28.488 ± 3.068	12	38.976	0.115549	0.223331	0.013863	0.727696	0.477750
30	Sansan [6,13.85] *	30.252 ± 2.153	28	39.764	0.046241	0.117644	0.013047	0.328402	0.303833
31	Çandır [6,13.85]	30.619 ± 1.988	19	39.866	0.079461	0.186463	0.015229	0.561272	0.421250
32	Pasalar [6,14.75]	30.676 ± 1.803	24	39.829	0.086622	0.155725	0.020963	0.449626	0.473000
33	Simorre [6,13.2]	31.774 ± 1.836	14	39.895	0.077262	0.215811	0.010914	0.676190	0.332500
34	La Grive St. Alban [7,11.85]	34.098 ± 1.088	29	41.186	0.089491	0.134378	0.026533	0.358895	0.075500
35	Steinheim [7,11.85]	34.138 ± 1.481	20	40.125	0.008092	0.170478	0.001637	0.505591	0.425167
36	Sant Quirze [7,11.85]	38.140 ± 1.465	21	39.409	0.057774	0.166292	0.012182	0.497915	0.000000
37	Castell de Barberà [7,11.85]	38.281 ± 2.405	18	39.448	0.051407	0.184902	0.009295	0.567158	0.497833
38	Hostalets de Pierola Inferior [7,11.85]	38.928 ± 2.584	19	38.895	0.025544	0.169837	0.004848	0.523985	0.366083
39	Wissberg [9,10.35]	39.264 ± 2.293	14	37.761	0.081726	0.199241	0.011302	0.659547	0.435167
40	Esselborn [9,10.35]	39.809 ± 2.489	9	37.430	0.015370	0.219756	0.001362	0.763246	0.420500
41	Massenhausen [9,11]	40.119 ± 2.565	10	37.075	0.008517	0.210547	0.000836	0.732576	0.403667
42	Can Llobateres I [10,9.45] *	40.615 ± 1.935	32	39.896	0.101964	0.104286	0.032923	0.279694	0.461833
43	Eppelsheim [9,10.35]	41.782 ± 1.986	21	37.479	0.066944	0.151569	0.013848	0.477201	0.313583
44	Can Ponsic I [9,10.35]	44.635 ± 1.405	24	33.958	0.023823	0.091560	0.005443	0.310075	0.134667
45	Can Ponsic [9,10.35]	45.048 ± 1.662	17	33.543	0.001559	0.135819	0.000251	0.493984	0.393167
46	Rudabánya [9,10.35]	45.666 ± 1.365	15	33.592	0.014200	0.151649	0.002021	0.559799	0.400000
47	Hostalets de Pierola Superior [9,10.35]	46.530 ± 1.823	11	32.192	0.002765	0.165798	0.000285	0.659242	0.369583
48	Charmoille [9,10.35]	48.017 ± 1.521	14	31.500	0.010696	0.141197	0.001393	0.560308	0.293083
49	Los Valles de Fuentidueña [9,10.35]	49.337 ± 1.395	14	30.986	0.095387	0.146571	0.012363	0.591280	0.280083
50	Kalfa [9,10.35]	49.751 ± 1.549	15	30.735	0.240122	0.155942	0.033269	0.629147	0.370500
51	Buzhor 1 [9,10.35]	50.444 ± 0.936	12	29.783	0.168403	0.155939	0.018503	0.664942	0.345250
52	Dorn Dürkheim [11,8.6]	51.820 ± 0.968	25	30.450	0.133567	0.077098	0.030762	0.288643	0.122083
53	Villadecavalls [10,9.25]	54.364 ± 1.935	18	29.166	0.118162	0.109862	0.019365	0.455774	0.078167
54	Csakvar [11,8.6]	54.842 ± 3.207	12	29.207	0.246826	0.158807	0.026977	0.690546	0.531500
55	Terrassa [10,9.25]	55.600 ± 1.408	17	28.986	0.006088	0.099096	0.000941	0.417084	0.279583
56	Creventille 2 [11,8.6] *	56.881 ± 1.793	10	28.506	0.006208	0.143941	0.000562	0.651378	0.236917
57	Piera [11,8.6]	56.916 ± 2.559	10	28.356	0.006592	0.142803	0.000596	0.649661	0.537833
58	Puente Minero [11,8.6]	57.328 ± 2.477	14	28.039	0.073762	0.120575	0.009307	0.537529	0.438417
59	La Roma 2 [10,9.25]	58.649 ± 2.056	10	28.526	0.104808	0.151738	0.009487	0.686185	0.323250
60	Montredon [10,9.25]	58.747 ± 1.705	13	28.892	0.012731	0.127437	0.001503	0.555770	0.483500

$n$	Site [MN,DBAGE]	$E\{\pi\}$	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$O_{n-1,n}$
61	Los Mansuetos [12,7.65] *	60.855 ± 1.003	19	28.702	0.171298	0.107972	0.029508	0.451420	0.093000
62	Polgardi [13,6.75]	62.870 ± 3.281	10	29.211	0.150983	0.160629	0.013752	0.709353	0.293417
63	Arquillo [13,6.2] *	63.250 ± 1.308	15	29.010	0.043389	0.118235	0.005917	0.505377	0.504417
64	Arquillo 1 [13,6.2]	63.432 ± 1.337	15	29.225	0.044178	0.120065	0.006037	0.509421	0.439250
65	Cerro de la Garita [12,7.65]	64.722 ± 1.342	22	29.862	0.091629	0.084427	0.018471	0.330786	0.217250
66	Concud [12,7.65]	64.929 ± 1.461	18	29.905	0.165500	0.123008	0.027306	0.497709	0.447833
67	Belka [12,7.65]	68.736 ± 1.937	13	33.615	0.086827	0.172567	0.010711	0.646844	0.021583
68	Chobruchi (Tchobroutchi) [12,7.65]	69.318 ± 2.660	16	34.608	0.109682	0.165556	0.016811	0.588393	0.471167
69	Poksheshty [10,9.25]	69.645 ± 3.712	11	33.615	0.110621	0.186182	0.011546	0.708960	0.477083
70	Novaja Emetovka [12,7.65]	70.227 ± 2.412	16	34.273	0.023380	0.151602	0.003572	0.544075	0.390583
71	Novo Elizavetovka [12,8.05]	70.595 ± 2.125	15	34.797	0.005922	0.160370	0.000853	0.571481	0.441000
72	Eldari I [9,9.55]	71.186 ± 2.312	13	35.079	0.078917	0.183370	0.009872	0.658651	0.437083
73	Chimishlija (Cimislija) [12,7.65]	72.097 ± 1.884	20	37.001	0.087688	0.157606	0.017194	0.506876	0.341750
74	Taraklia [13,6.75]	72.425 ± 1.622	21	36.821	0.017933	0.137267	0.003686	0.439899	0.463750
75	Grebeniki [12,8.05]	75.487 ± 1.162	18	39.177	0.036579	0.180458	0.006596	0.557353	0.048000
76	Maragheh [12,8.05]	76.970 ± 1.712	13	39.002	0.043455	0.210849	0.005649	0.681169	0.165667
77	Pikermi [12,8.05]	79.955 ± 3.423	38	40.165	0.109645	0.062693	0.042156	0.157648	0.064167
78	Pikermi MNHN (PIK) [12,7.65]	81.304 ± 3.185	25	38.213	0.057657	0.128545	0.014302	0.383488	0.264833
79	Middle Maragheh [12,7.65]	81.458 ± 4.856	18	35.665	0.059542	0.154847	0.010372	0.525351	0.465917
80	Samos (A 1) [12,8.05]	82.170 ± 2.664	24	36.958	0.002021	0.113100	0.000475	0.351927	0.473917
81	Halmyropotamos (HAL) [12,8.05]	82.285 ± 3.261	17	36.576	0.032245	0.164949	0.005352	0.550197	0.493833
82	Dytiko 1 (DTK) [13,6.2]	82.528 ± 3.233	13	36.050	0.003321	0.183280	0.000419	0.640589	0.470917
83	Samos [12,8.05]	83.014 ± 2.702	16	36.387	0.063771	0.174043	0.009944	0.588324	0.451917
84	Ravin de la Pluie (RPL) [10,9.25]	83.246 ± 3.192	11	35.707	0.004659	0.193422	0.000496	0.693370	0.460750
85	Pentalophos 1 (PNT) [10,9.25]	83.495 ± 3.662	11	34.926	0.012212	0.187973	0.001291	0.688897	0.455500
86	Middle Sinap [9,10.1]	85.413 ± 8.117	11	30.626	0.280333	0.177419	0.028454	0.741516	0.406750
87	Samos Main Bone Beds [12,7.65]	86.915 ± 7.434	16	30.577	0.114536	0.133414	0.016902	0.536669	0.456667
88	Kemiklitepe A B [12,7.65]	88.959 ± 5.126	10	29.982	0.131942	0.165127	0.012103	0.710474	0.492417
89	Vathylakkos 3 (VAT) [11,8.6]	89.107 ± 4.021	18	29.939	0.103083	0.114003	0.017013	0.460752	0.475083
90	Gülpinar [10,9.25]	89.334 ± 2.803	11	28.543	0.006038	0.137576	0.000601	0.616948	0.486167
91	Ravin des Zouaves 5 [11,8.6]	89.569 ± 4.305	16	28.060	0.050255	0.104588	0.007248	0.458454	0.407167
92	Prochoma [11,8.6]	90.400 ± 3.003	13	27.735	0.089904	0.126217	0.010504	0.573412	0.461417
93	Mahmutgazi [12,7.65]	91.090 ± 3.373	11	27.037	0.182985	0.141012	0.017978	0.667594	0.416833
94	Upper Maragheh [12,7.65]	91.468 ± 3.541	13	27.035	0.010321	0.112450	0.001198	0.524096	0.459417
95	Vathylakkos 2 (VTK) [11,8.6]	92.061 ± 3.315	10	26.210	0.004108	0.125974	0.000364	0.620026	0.451333
96	Çobanpınar (AS 42) [12,7.65]	94.005 ± 3.518	10	25.123	0.049842	0.121096	0.004377	0.621797	0.226167
97	Brisighella [13,6.2]	97.157 ± 0.602	10	22.475	0.179883	0.110654	0.015437	0.635106	0.076417
98	Baccinello V3 [13,5.65]	98.362 ± 0.908	10	21.411	0.336433	0.114540	0.028611	0.690086	0.126667
99	Venta del Moro [13,6.2]	98.744 ± 0.943	19	23.385	0.274053	0.079936	0.045038	0.410186	0.381333
100	Montpellier [14,4.75]	100.398 ± 1.055	16	22.406	0.222839	0.081068	0.030580	0.445033	0.117833
101	Weze 1 [15,3.8]	102.258 ± 3.376	9	21.740	0.296491	0.118524	0.022756	0.708755	0.239417
102	Kosyakino [14,4.75]	102.570 ± 2.368	11	21.712	0.269985	0.106892	0.025321	0.630156	0.404083
103	Vialette [16,3]	102.751 ± 1.246	11	22.286	0.093098	0.096176	0.008774	0.552377	0.435167
104	Kvabebi [16,3]	103.944 ± 1.826	12	23.210	0.117451	0.099362	0.012172	0.543696	0.237583
105	Perpignan [15,3.8] *	104.373 ± 1.507	14	23.616	0.014173	0.078515	0.001720	0.415583	0.432750
106	Triversa (Fornace RDB) [16,3]	108.946 ± 3.657	14	24.268	0.096690	0.092973	0.011799	0.478889	0.019333
107	Çalta [15,3.8]	109.982 ± 5.548	11	22.296	0.085477	0.095596	0.008057	0.548809	0.431250
108	Layna [13,5.65]	110.049 ± 3.822	10	23.111	0.008717	0.102309	0.000752	0.571073	0.477833
109	Kisláng [16,3]	110.386 ± 5.659	13	23.641	0.108750	0.095670	0.012255	0.509902	0.504917
110	Villaroya [16,3]	110.944 ± 3.031	15	23.535	0.005244	0.069462	0.000681	0.365985	0.445583
111	Etouaires [16,3]	111.350 ± 3.724	18	23.907	0.068954	0.059079	0.010784	0.299011	0.469083
112	Senèze [17,2.26]	113.107 ± 2.779	18	23.547	0.001685	0.046094	0.000263	0.236860	0.322917
113	La Puebla de Valverde [17,2.26]	113.353 ± 3.023	18	23.417	0.002181	0.045096	0.000340	0.233017	0.476417
114	Odessa Catacombs [15,3.8]	114.355 ± 6.380	13	21.114	0.206981	0.085750	0.022825	0.511728	0.450417
115	Saint Vallier [17,2.26] *	115.228 ± 3.096	18	22.870	0.007806	0.041408	0.001210	0.219083	0.508250
116	Pardines [17,2.26]	116.871 ± 3.577	15	21.378	0.002067	0.051688	0.000264	0.299802	0.318167
117	Liventsovka (Rostov on Don) [17,2.04]	117.723 ± 4.632	12	19.896	0.081014	0.069828	0.008162	0.445726	0.412250
118	Sesklon (SES) [17,2.26]	117.822 ± 3.467	14	20.917	0.002655	0.055637	0.000315	0.332478	0.543667
119	Dafnero (DFN) [17,2.26]	118.126 ± 4.602	10	19.334	0.018458	0.073790	0.001542	0.492332	0.487500
120	Gerakarou 1 (GER) [16,3.02]	118.345 ± 4.533	10	19.527	0.011983	0.074778	0.001003	0.494012	0.474833

$n$	Site [MN,DBAGE]	$E\{\pi\}$	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$O_{n-1,n}$
121	Chilhac [17,2.26]	$118.416 \pm 3.617$	12	20.335	0.008111	0.066395	0.000820	0.414666	0.515167
122	Varshets [16,2.66]	$118.521 \pm 4.530$	11	18.931	0.106742	0.071132	0.009779	0.480957	0.458500
123	Volax (VOL) [17,2.26]	$119.565 \pm 3.532$	11	19.023	0.013189	0.063810	0.001209	0.429367	0.462167
124	Stavropol Kavkazskij [15,3.53]	$120.243 \pm 4.955$	9	15.229	0.357963	0.072695	0.026029	0.620562	0.382083

In the following table we list the genera, in the order they appear in the figures. As with sites, we show the index  $m$ , followed by the name of the genus. Next we show the number of 1s associated with the genus. Next we show the probabilities that a randomly picked 1 or 0 is false (1F and 0F, respectively), and the probabilities of false 1s and 0s,  $\hat{c}$  and  $\hat{d}$ . Finally, we show the expected number of Lasarus events. The number of Lasarus events, is defined as the number of sequences of consecutive zeros for a given order.

$m$	Genus	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$E\{a\}$	$E\{b\}$	$E\{L\}$
1	Cainotherium	6	12.153	0.042375	0.054299	0.002273	0.527216	1.061	13.214	2.549
2	Diaceratherium	6	12.419	0.053472	0.057117	0.002875	0.542700	1.204	13.623	3.301
3	Amphicyon	22	49.825	0.053795	0.284394	0.015955	0.582205	1.207	51.031	13.966
4	Palaeogale	8	16.437	0.013229	0.073649	0.000984	0.519744	1.248	17.685	3.728
5	Cynelos	8	15.079	0.025750	0.062804	0.001891	0.483131	1.266	16.346	3.431
6	Semigenetta	17	41.551	0.006902	0.230544	0.001423	0.593687	1.280	42.831	9.183
7	Andegameryx	4	5.785	0.016896	0.015435	0.000572	0.320190	1.281	7.066	0.556
8	Oriomeryx	4	5.778	0.017813	0.015411	0.000603	0.320060	1.291	7.069	0.556
9	Protaceratherium	4	8.592	0.150063	0.043269	0.005201	0.604316	1.385	9.977	2.494
10	Procervulus	13	24.416	0.163141	0.121956	0.021297	0.554431	1.638	26.054	7.244
11	Aureliachoerus	10	23.791	0.010075	0.121862	0.001005	0.583917	1.806	25.597	5.755
12	Martes	27	80.221	0.110917	0.579545	0.068406	0.700761	1.993	82.214	18.873
13	Pseudaelurus	26	50.894	0.001388	0.254384	0.000494	0.489839	2.515	53.409	10.384
14	Hemicyon	15	33.885	0.005072	0.173957	0.000844	0.559575	2.661	36.546	6.914
15	Plithocyon	15	35.039	0.029672	0.187926	0.005003	0.584606	2.785	37.824	8.863
16	Dorcatherium	27	56.365	0.113580	0.334348	0.045341	0.575387	3.137	59.502	16.984
17	Prosantorhinus	16	24.576	0.004302	0.080047	0.000692	0.351766	3.156	27.732	4.785
18	Gomphotherium	22	41.031	0.004379	0.187522	0.001161	0.466167	3.398	44.429	9.464
19	Palaeomeryx	20	38.766	0.005400	0.181481	0.001267	0.486870	3.492	42.258	9.477
20	Eotragus	8	28.470	0.024125	0.178130	0.002020	0.725782	3.575	32.045	5.000
21	Brachyodus	2	4.619	0.062292	0.022484	0.001044	0.593934	3.696	8.315	0.625
22	Ursavus	19	51.604	0.125974	0.333313	0.033061	0.678196	3.728	55.333	13.400
23	Amphimoschus	7	21.569	0.024905	0.126012	0.001702	0.683544	3.792	25.361	4.178
24	Hyainailouros	6	10.560	0.416167	0.059802	0.022012	0.668266	3.818	14.378	3.582
25	Lagomeryx	16	28.418	0.073042	0.125801	0.012227	0.478098	3.849	32.266	7.965
26	Taucanamo	17	32.936	0.004333	0.149622	0.000809	0.486083	4.173	37.108	8.276
27	Bunolistriodon	12	27.850	0.007278	0.142295	0.000908	0.572252	5.902	33.752	6.085
28	Amphitragulus	2	4.082	0.084125	0.018443	0.001403	0.551234	6.614	10.696	0.414
29	Anchitherium	23	36.277	0.003757	0.132307	0.000985	0.368364	7.102	43.379	7.389
30	Lartetotherium	17	41.137	0.003289	0.226100	0.000675	0.588104	7.572	48.709	9.485
31	Plesiaceratherium	12	19.812	0.008674	0.070682	0.000999	0.399568	7.931	27.743	3.703
32	Ischyriactis	11	32.247	0.043311	0.192246	0.005192	0.673661	8.262	40.509	6.725
33	Hyootherium	10	19.323	0.011917	0.082828	0.001138	0.488656	8.449	27.772	4.135
34	Brachypotherium	19	33.747	0.016768	0.143479	0.003530	0.446423	9.258	43.005	6.941
35	Trochictis	9	29.064	0.123833	0.184165	0.011740	0.728690	10.245	39.309	6.610
36	Pseudocyon	12	26.699	0.005764	0.131859	0.000711	0.553137	10.386	37.085	6.283
37	Protictitherium	23	48.236	0.101344	0.272938	0.030765	0.571499	12.770	61.005	12.940
38	Pseudarctos	9	25.060	0.062139	0.144520	0.005652	0.663185	14.442	39.503	5.706
39	Hispanotherium	5	15.380	0.195300	0.095433	0.008990	0.738395	14.584	29.964	3.359
40	Heteroprox	7	19.103	0.059440	0.107002	0.003967	0.655349	17.249	36.352	4.453
41	Trocharion	9	25.672	0.051944	0.149038	0.004754	0.667633	17.265	42.936	5.054
42	Pliopithecus	10	21.402	0.026325	0.102327	0.002566	0.545054	17.269	38.671	4.778
43	Dicrocerus	13	28.610	0.125295	0.155309	0.017076	0.602552	17.347	45.958	7.361
44	Chalicotherium	23	41.394	0.047652	0.192974	0.013268	0.470847	18.133	59.527	11.203
45	Prodeinotherium	7	24.174	0.170976	0.157016	0.011989	0.759942	19.555	43.729	4.566
46	Micromeryx	21	41.897	0.008940	0.204701	0.002287	0.503246	19.773	61.669	10.437
47	Deinotherium	40	65.878	0.096508	0.354023	0.066417	0.451412	20.729	86.606	17.630
48	Stehlinoceros	7	17.864	0.197798	0.104687	0.013045	0.685653	20.895	38.759	3.986
49	Euprox	19	39.547	0.015702	0.198532	0.003533	0.527109	22.200	61.748	8.814
50	Sansanosmilus	15	28.802	0.015000	0.128686	0.002363	0.487010	22.716	51.518	5.549
51	Listriodon	18	25.335	0.014139	0.071597	0.002579	0.299559	24.021	49.356	3.837
52	Agnotherium	8	24.145	0.167083	0.150704	0.013386	0.724028	25.890	50.035	5.732
53	Hoploaceratherium	10	22.105	0.110167	0.115846	0.010812	0.597447	26.120	48.224	5.801
54	Conohyus	3	7.395	0.045611	0.037450	0.001173	0.612807	27.033	34.427	1.284
55	Tethytragus	3	7.460	0.038694	0.037815	0.000996	0.613394	28.590	36.050	1.270
56	Alicornops	17	33.144	0.006525	0.151918	0.001221	0.490438	28.727	61.871	7.534
57	Aceratherium	30	46.981	0.087217	0.208481	0.033972	0.417134	30.774	77.755	11.449
58	Dicerorhinus	6	18.989	0.200750	0.120282	0.011470	0.747457	30.939	49.928	4.071
59	Parachleuastochoerus	13	17.607	0.005641	0.042165	0.000689	0.265822	33.194	50.801	1.960
60	Dryopithecus	8	15.206	0.016927	0.063285	0.001245	0.482786	33.623	48.829	2.873

$m$	Genus	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$E\{a\}$	$E\{b\}$	$E\{L\}$
61	Propotamochoerus	24	72.638	0.002104	0.486884	0.000983	0.670289	34.921	107.559	9.001
62	Tetralophodon	30	52.350	0.035786	0.249184	0.014984	0.447439	35.094	87.444	12.120
63	Miotragocerus	16	20.608	0.068068	0.052749	0.010534	0.276444	35.653	56.261	2.998
64	Protragocerus	4	7.677	0.014646	0.031128	0.000504	0.486577	35.747	43.424	0.861
65	Thalassictis	14	30.422	0.172476	0.171243	0.025804	0.619180	35.823	66.245	8.711
66	Dihoplus	19	33.271	0.063846	0.147470	0.013370	0.465397	37.523	70.794	6.948
67	Machairodus	19	35.129	0.178219	0.185859	0.038102	0.555529	37.641	72.770	9.475
68	Tapirus	14	17.827	0.499315	0.098341	0.065840	0.606801	37.903	55.730	9.110
69	Hippotherium	24	49.230	0.004733	0.253438	0.001519	0.514802	38.997	88.227	11.453
70	Indarctos	13	37.766	0.102814	0.235159	0.015500	0.691167	40.136	77.902	8.537
71	Simocyon	9	33.992	0.180639	0.231455	0.018062	0.783057	41.946	75.938	6.759
72	Eomellivora	9	25.989	0.185287	0.162232	0.017014	0.717866	45.020	71.009	5.818
73	Hipparion	30	67.770	0.007356	0.404160	0.003924	0.560585	46.191	113.962	15.478
74	Dremotherium	1	1.510	0.716167	0.009965	0.005847	0.811969	46.536	48.045	0.000
75	Dinocrocuta	5	6.363	0.409983	0.028682	0.017426	0.536387	48.172	54.535	2.670
76	Paramachairodus	15	31.618	0.135233	0.171067	0.021958	0.589740	49.312	80.930	9.117
77	Plioviverrops	17	48.641	0.200471	0.327565	0.045224	0.720568	50.150	98.791	12.490
78	Palaeotragus	24	46.301	0.078611	0.241874	0.024282	0.522398	50.361	96.662	9.843
79	Microstonyx	34	47.524	0.001044	0.150656	0.000464	0.285313	50.517	98.040	8.559
80	Adcrocuta	26	46.720	0.001561	0.211839	0.000525	0.444358	50.526	97.246	11.380
81	Tragoportax	34	48.823	0.003066	0.165856	0.001387	0.305739	51.702	100.524	9.085
82	Cremohipparion	26	43.877	0.001628	0.182848	0.000528	0.408396	53.557	97.434	8.921
83	Amphimachairodus	15	45.503	0.074756	0.290128	0.014285	0.694992	54.284	99.787	9.050
84	Metailurus	18	40.925	0.067852	0.227792	0.014702	0.590010	55.300	96.225	9.388
85	Ictitherium	18	43.086	0.007542	0.237936	0.001678	0.585377	57.396	100.481	9.376
86	Lycyaena	9	31.358	0.148722	0.206054	0.014448	0.755674	57.817	89.174	6.431
87	Gazella	46	65.580	0.015009	0.259875	0.011818	0.309093	59.238	124.818	12.096
88	Hispanodorcus	7	12.272	0.122726	0.052403	0.007689	0.499603	59.681	71.953	2.572
89	Zygodon	13	19.439	0.323968	0.095956	0.040279	0.547909	61.088	80.527	7.267
90	Palaeoryx	12	25.006	0.005306	0.116693	0.000643	0.522661	62.860	87.866	5.296
91	Hyaenictitherium	8	14.246	0.226115	0.069443	0.016482	0.565431	64.423	78.669	4.272
92	Helladotherium	15	32.152	0.029611	0.161436	0.004836	0.547285	64.568	96.720	7.739
93	Samotherium	12	29.343	0.007271	0.155629	0.000922	0.594020	66.677	96.020	6.701
94	Cervavitus	7	11.142	0.156310	0.044752	0.009695	0.469941	66.677	77.819	3.005
95	Choerolophodon	15	29.076	0.073306	0.139222	0.011584	0.521921	66.922	95.998	7.202
96	Stephanorhinus	30	56.922	0.036392	0.298018	0.016276	0.492142	67.119	124.041	12.171
97	Chilotherium	11	29.234	0.013508	0.162678	0.001568	0.628808	67.707	96.941	6.594
98	Mustela	6	7.330	0.529819	0.038211	0.027247	0.615132	68.165	75.495	4.191
99	Protragelaphus	10	18.842	0.012917	0.078692	0.001228	0.476117	69.389	88.231	3.810
100	Orycteropus	9	17.414	0.365981	0.101804	0.030903	0.672315	70.852	88.266	6.536
101	Pliocervus	8	15.859	0.162615	0.078963	0.012030	0.577578	71.716	87.574	2.901
102	Ceratotherium	15	26.132	0.013022	0.103920	0.001996	0.433464	71.897	98.029	5.920
103	Palaeoreas	11	22.970	0.027515	0.108609	0.002996	0.534294	72.830	95.800	5.271
104	Felis	15	35.216	0.178139	0.209984	0.030097	0.649936	72.985	108.201	10.086
105	Prostrepsiceros	14	22.516	0.003321	0.077845	0.000458	0.380297	73.647	96.163	4.185
106	Mesopithecus	14	34.470	0.093827	0.198033	0.014672	0.631959	74.088	108.558	8.844
107	Hyaenotherium	8	22.574	0.025292	0.127383	0.001995	0.654574	75.041	97.615	4.386
108	Bohlinia	6	13.434	0.056056	0.065847	0.003042	0.578398	75.902	89.336	2.906
109	Protoryx	8	17.352	0.375323	0.106502	0.028154	0.711992	76.021	93.373	5.873
110	Ancylotherium	8	16.233	0.140865	0.080686	0.010457	0.576589	76.625	92.858	4.316
111	Pliohyrax	8	12.911	0.267000	0.060749	0.019228	0.545811	77.353	90.264	4.150
112	Oioceros	8	20.637	0.031240	0.111098	0.002418	0.624464	77.399	98.037	4.257
113	Plesiogulo	9	10.332	0.592046	0.057913	0.046877	0.644625	92.099	102.431	6.559
114	Paracamelus	3	4.967	0.495972	0.028556	0.012500	0.695595	92.889	97.857	1.894
115	Agriotherium	6	11.251	0.218361	0.055603	0.011620	0.583163	95.639	106.890	3.244
116	Parabos	5	9.141	0.119433	0.039813	0.005199	0.518320	95.747	104.888	1.532
117	Procacpreolus	8	10.934	0.384208	0.051792	0.027185	0.549459	95.833	106.767	5.069
118	Anancus	18	26.720	0.114968	0.101791	0.021273	0.403805	97.392	124.112	8.358
119	Canis	13	24.868	0.243314	0.135412	0.031908	0.604429	97.792	122.659	7.940
120	Nyctereutes	16	26.432	0.007187	0.097657	0.001179	0.399024	97.861	124.293	5.714

$m$	Genus	1s	AL	1F	0F	$\hat{c}$	$\hat{d}$	$E\{a\}$	$E\{b\}$	$E\{L\}$
121	Croizetocerus	13	25.606	0.011910	0.114959	0.001574	0.498347	98.186	123.791	5.885
122	Vulpes	14	25.538	0.014780	0.106767	0.002101	0.459889	98.430	123.968	5.806
123	Ursus	20	25.484	0.002542	0.053218	0.000516	0.217183	98.538	124.022	3.298
124	Cervus	18	25.760	0.058505	0.083144	0.010720	0.342127	98.841	124.601	5.951
125	Sus	10	23.819	0.021333	0.123093	0.002129	0.589128	99.829	123.648	5.650
126	Lynx	15	24.287	0.006528	0.086096	0.000982	0.386405	100.199	124.485	5.359
127	Mammut	7	12.269	0.338310	0.065278	0.021195	0.622487	101.255	113.524	4.587
128	Homotherium	12	20.311	0.009229	0.075192	0.001068	0.414633	102.862	123.173	4.258
129	Chasmaporthetes	12	19.443	0.011340	0.067667	0.001302	0.389800	102.978	122.421	3.549
130	Pliocrocuta	13	20.707	0.010026	0.070607	0.001262	0.378490	103.526	124.234	4.472
131	Macaca	5	12.776	0.148100	0.071566	0.006658	0.666597	105.082	117.858	2.833
132	Leptobos	11	17.784	0.006644	0.060680	0.000688	0.385567	105.878	123.661	3.483
133	Acinonyx	6	11.714	0.014389	0.049153	0.000769	0.495148	105.984	117.698	2.105
134	Gazellospira	13	18.198	0.007160	0.047664	0.000880	0.290738	106.421	124.618	2.881
135	Megantereon	9	16.431	0.011880	0.065548	0.000994	0.458765	106.909	123.340	3.566
136	Eucladoceros	7	16.395	0.077845	0.084958	0.005064	0.606281	107.362	123.757	3.510
137	Equus	12	17.112	0.010194	0.046737	0.001145	0.305897	107.456	124.568	2.679
138	Mammuthus	8	15.921	0.025094	0.070011	0.001857	0.510115	107.815	123.736	3.559
139	Baranogale	8	12.709	0.495313	0.074758	0.035605	0.682322	108.393	121.103	5.831

The strongest of false 1s.

	(n, m)	Site	Genus	P(1 is wrong)
1	(32, 111)	Pasalar [6,14.75]	Pliohyrax	1.000000
2	(61, 139)	Los Mansuetos [12,7.65] *	Baranogale	1.000000
3	(99, 66)	Venta del Moro [13,6.2]	Dihoplus	1.000000
4	(39, 106)	Wissberg [9,10.35]	Mesopithecus	1.000000
5	(30, 89)	Sansan [6,13.85] *	Zygodolophodon	1.000000
6	(29, 96)	Belometchetskaja [5,16.1]	Stephanorhinus	1.000000
7	(68, 124)	Chobruchi (Tchobroutchi) [12,7.65]	Cervus	1.000000
8	(33, 89)	Simorre [6,13.2]	Zygodolophodon	1.000000
9	(66, 118)	Concud [12,7.65]	Anancus	1.000000
10	(92, 44)	Prochoma [11,8.6]	Chalicotherium	1.000000
11	(124, 62)	Stavropol Kavkazskij [15,3.53]	Tetralophodon	1.000000
12	(52, 118)	Dorn Dürkheim [11,8.6]	Anancus	1.000000
13	(114, 94)	Odessa Catacombs [15,3.8]	Cervavitus	1.000000
14	(66, 119)	Concud [12,7.65]	Canis	1.000000
15	(61, 119)	Los Mansuetos [12,7.65] *	Canis	1.000000
16	(2, 65)	Wintershof West [3,19] *	Thalassictis	1.000000
17	(31, 100)	Çandir [6,13.85]	Orycteropus	1.000000
18	(21, 89)	Pontlevoy [5,16.1] *	Zygodolophodon	1.000000
19	(98, 63)	Baccinello V3 [13,5.65]	Miotragocerus	1.000000
20	(52, 139)	Dorn Dürkheim [11,8.6]	Baranogale	1.000000
21	(124, 3)	Stavropol Kavkazskij [15,3.53]	Amphicyon	1.000000
22	(58, 139)	Puente Minero [11,8.6]	Baranogale	1.000000
23	(65, 119)	Cerro de la Garita [12,7.65]	Canis	1.000000
24	(99, 65)	Venta del Moro [13,6.2]	Thalassictis	1.000000
25	(1, 77)	Laugnac [2,21.38] *	Plioviverrops	1.000000
26	(54, 25)	Csakvar [11,8.6]	Lagomeryx	0.999917
27	(73, 127)	Chimishlija (Cimislia) [12,7.65]	Mammut	0.999750
28	(61, 117)	Los Mansuetos [12,7.65] *	Procacpreolus	0.999667
29	(62, 117)	Polgardi [13,6.75]	Procacpreolus	0.999583
30	(67, 117)	Belka [12,7.65]	Procacpreolus	0.999583
31	(77, 22)	Pikermi [12,8.05]	Ursavus	0.999167
32	(99, 57)	Venta del Moro [13,6.2]	Aceratherium	0.999083
33	(87, 22)	Samos Main Bone Beds [12,7.65]	Ursavus	0.999083
34	(102, 57)	Kosyakino [14,4.75]	Aceratherium	0.999083
35	(32, 113)	Pasalar [6,14.75]	Plesiogulo	0.998917
36	(93, 37)	Mahmutgazi [12,7.65]	Protictitherium	0.998750
37	(51, 113)	Buzhor 1 [9,10.35]	Plesiogulo	0.998583
38	(42, 113)	Can Llobateres I [10,9.45] *	Plesiogulo	0.998583
39	(50, 10)	Kalfa [9,10.35]	Procervulus	0.998500
40	(51, 10)	Buzhor 1 [9,10.35]	Procervulus	0.998417
41	(124, 47)	Stavropol Kavkazskij [15,3.53]	Deinotherium	0.997917
42	(99, 76)	Venta del Moro [13,6.2]	Paramachairodus	0.997833
43	(122, 12)	Varshets [16,2.66]	Martes	0.997750
44	(50, 95)	Kalfa [9,10.35]	Choerolophodon	0.996750
45	(22, 77)	Vieux Collonges [5,16.6]	Plioviverrops	0.996083
46	(86, 37)	Middle Sinap [9,10.1]	Protictitherium	0.994917
47	(86, 75)	Middle Sinap [9,10.1]	Dinocrocuta	0.992000
48	(36, 98)	Sant Quirze [7,11.85]	Mustela	0.991417
49	(77, 127)	Pikermi [12,8.05]	Mammut	0.990750
50	(114, 98)	Odessa Catacombs [15,3.8]	Mustela	0.989583
51	(89, 16)	Vathylakkos 3 (VAT) [11,8.6]	Dorcatherium	0.989500
52	(72, 75)	Eldari I [9,9.55]	Dinocrocuta	0.989167
53	(34, 77)	La Grive St. Alban [7,11.85]	Plioviverrops	0.988333
54	(101, 98)	Weze 1 [15,3.8]	Mustela	0.988333
55	(83, 16)	Samos [12,8.05]	Dorcatherium	0.987583
56	(78, 16)	Pikermi MNHN (PIK) [12,7.65]	Dorcatherium	0.987250
57	(102, 47)	Kosyakino [14,4.75]	Deinotherium	0.980583
58	(52, 104)	Dorn Dürkheim [11,8.6]	Felis	0.974250
59	(101, 12)	Weze 1 [15,3.8]	Martes	0.973167
60	(53, 104)	Villadecavalls [10,9.25]	Felis	0.971500



	(n, m)	Site	Genus	P(1 is wrong)
61	(4, 48)	Savigné sur Lathan [5,16.1]	Stehlinoceros	0.969667
62	(100, 67)	Montpellier [14,4.75]	Machairodus	0.969417
63	(98, 67)	Baccinello V3 [13,5.65]	Machairodus	0.968333
64	(111, 68)	Etouaires [16,3]	Tapirus	0.962417
65	(98, 68)	Baccinello V3 [13,5.65]	Tapirus	0.960500
66	(106, 68)	Triversa (Fornace RDB) [16,3]	Tapirus	0.960417
67	(100, 68)	Montpellier [14,4.75]	Tapirus	0.959917
68	(102, 68)	Kosyakino [14,4.75]	Tapirus	0.959833
69	(103, 68)	Vialette [16,3]	Tapirus	0.959833
70	(34, 24)	La Grive St. Alban [7,11.85]	Hyainailouros	0.955500
71	(66, 110)	Concud [12,7.65]	Ancylotherium	0.954583
72	(93, 67)	Mahmutgazi [12,7.65]	Machairodus	0.952083
73	(69, 113)	Poksheshty [10,9.25]	Plesiogulo	0.946500
74	(4, 43)	Savigné sur Lathan [5,16.1]	Dicrocerus	0.946333
75	(54, 100)	Csakvar [11,8.6]	Orycteropus	0.943083
76	(59, 109)	La Roma 2 [10,9.25]	Protoryx	0.915917
77	(104, 109)	Kvabebi [16,3]	Protoryx	0.898333
78	(13, 53)	Engelswies [5,16.6]	Hoploaceratherium	0.897083
79	(97, 100)	Brisighella [13,6.2]	Orycteropus	0.894500
80	(117, 114)	Liventsovka (Rostov on Don) [17,2.04]	Paracamelus	0.888833
81	(65, 109)	Cerro de la Garita [12,7.65]	Protoryx	0.885917
82	(49, 91)	Los Valles de Fuentidueña [9,10.35]	Hyaenictitherium	0.885333
83	(5, 47)	Artesilla [4,17.5]	Deinotherium	0.867833
84	(100, 111)	Montpellier [14,4.75]	Plioherax	0.853417
85	(7, 47)	Els Casots [4,17.5]	Deinotherium	0.849500
86	(77, 113)	Pikermi [12,8.05]	Plesiogulo	0.828583
87	(54, 91)	Csakvar [11,8.6]	Hyaenictitherium	0.807750
88	(23, 58)	Thannhausen [6,13.85]	Dicerorhinus	0.801417
89	(43, 76)	Eppelsheim [9,10.35]	Paramachairodus	0.797333
90	(28, 68)	Göriach [5,16.1]	Tapirus	0.788667
91	(91, 89)	Ravin des Zouaves 5 [11,8.6]	Zygodon	0.780500
92	(79, 88)	Middle Maragheh [12,7.65]	Hispanodorcus	0.780083
93	(107, 83)	Çalta [15,3.8]	Amphimachairodus	0.770500
94	(15, 52)	Baigneaux en Beauce [5,16.1]	Agnotherium	0.744333
95	(1, 74)	Laugnac [2,21.38] *	Dremotherium	0.716167
96	(24, 24)	Esvres Marine Faluns [5,16.1]	Hyainailouros	0.695083
97	(50, 84)	Kalfa [9,10.35]	Metailurus	0.686750
98	(21, 24)	Pontlevoy [5,16.1] *	Hyainailouros	0.677667
99	(53, 87)	Villadecavalls [10,9.25]	Gazella	0.646167
100	(63, 101)	Arquillo [13,6.2] *	Pliocervus	0.631583

Median for 0 alive: 0.000000

Median for 1 alive: 0.998833

Wrong 0s. 94 of 100 above median in  $P(X_{nm} = 1)$ . Hypothesis that  $P(X_{nm} = 1)$  is larger for wrong 0s is true with P-value (Fisher Sign Test) of  $< 2.2 \times 10^{-16}$ .

	(n, m)	Site	Genus	$X_{nm}$	$P(X_{nm} = 1)$
1	(14, 89)	La Romieu [4,17.5] *	Zygodolophodon	0	0.000000
2	(24, 89)	Esvres Marine Faluns [5,16.1]	Zygodolophodon	0	0.000000
3	(40, 89)	Esselborn [9,10.35]	Zygodolophodon	0	0.000000
4	(54, 115)	Csakvar [11,8.6]	Agriotherium	0	0.000000
5	(73, 133)	Chimishlija (Cimislija) [12,7.65]	Acinonyx	0	0.000000
6	(86, 13)	Middle Sinap [9,10.1]	Pseudaelurus	0	0.000000
7	(84, 37)	Ravin de la Pluie (RPL) [10,9.25]	Protictitherium	0	0.000167
8	(124, 68)	Stavropol Kavkazskij [15,3.53]	Tapirus	0	0.000250
9	(81, 22)	Halmyropotamos (HAL) [12,8.05]	Ursavus	0	0.000333
10	(45, 54)	Can Ponsic [9,10.35]	Conohyus	0	0.001417
11	(72, 44)	Eldari I [9,9.55]	Chalicotherium	0	0.001417
12	(62, 106)	Polgardi [13,6.75]	Mesopithecus	0	0.004250
13	(114, 114)	Odessa Catacombs [15,3.8]	Paracamelus	0	0.015167
14	(105, 68)	Perpignan [15,3.8] *	Tapirus	0	0.038750
15	(1, 31)	Laugnac [2,21.38] *	Plesiaceratherium	0	0.038833
16	(1, 33)	Laugnac [2,21.38] *	Hyotherium	0	0.042833
17	(111, 117)	Etouaires [16,3]	Procapreolus	0	0.071667
18	(17, 49)	Sandelzhausen [5,16.1]	Euprox	0	0.095750
19	(47, 64)	Hostalets de Pierola Superior [9,10.35]	Protragocerus	0	0.118750
20	(111, 115)	Etouaires [16,3]	Agriotherium	0	0.122417
21	(46, 6)	Rudabánya [9,10.35]	Semigenetta	0	0.127250
22	(75, 67)	Grebeniki [12,8.05]	Machairodus	0	0.176083
23	(122, 133)	Varshets [16,2.66]	Acinonyx	0	0.268083
24	(14, 45)	La Romieu [4,17.5] *	Prodeinotherium	0	0.277167
25	(28, 33)	Göriach [5,16.1]	Hyotherium	0	0.291250
26	(34, 64)	La Grive St. Alban [7,11.85]	Protragocerus	0	0.300833
27	(88, 100)	Kemiklitepe A B [12,7.65]	Orycteropus	0	0.356333
28	(38, 78)	Hostalets de Pierola Inferior [7,11.85]	Palaeotragus	0	0.362583
29	(5, 27)	Artesilla [4,17.5]	Bunolistriodon	0	0.432417
30	(61, 87)	Los Mansuetos [12,7.65] *	Gazella	0	0.553500
31	(109, 73)	Kisláng [16,3]	Hipparion	0	0.601833
32	(115, 133)	Saint Vallier [17,2.26] *	Acinonyx	0	0.656667
33	(36, 32)	Sant Quirze [7,11.85]	Ischyriactis	0	0.665500
34	(19, 41)	Hambach 6C [6,13.85]	Trocharion	0	0.676167
35	(79, 112)	Middle Maragheh [12,7.65]	Oioceros	0	0.684167
36	(41, 34)	Massenhausen [9,11]	Brachypotherium	0	0.691583
37	(35, 14)	Steinheim [7,11.85]	Hemicyon	0	0.725000
38	(117, 136)	Liventsovka (Rostov on Don) [17,2.04]	Eucladoceros	0	0.743083
39	(94, 93)	Upper Maragheh [12,7.65]	Samotherium	0	0.759167
40	(81, 47)	Halmyropotamos (HAL) [12,8.05]	Deinotherium	0	0.805750
41	(63, 87)	Arquillo [13,6.2] *	Gazella	0	0.822167
42	(88, 107)	Kemiklitepe A B [12,7.65]	Hyaenotherium	0	0.843083
43	(89, 103)	Vathylakkos 3 (VAT) [11,8.6]	Palaeoreas	0	0.859583
44	(102, 117)	Kosyakino [14,4.75]	Procapreolus	0	0.860917
45	(37, 6)	Castell de Barberà [7,11.85]	Semigenetta	0	0.898250
46	(21, 23)	Pontlevoy [5,16.1] *	Amphimoschus	0	0.909167
47	(14, 33)	La Romieu [4,17.5] *	Hyotherium	0	0.913083
48	(17, 33)	Sandelzhausen [5,16.1]	Hyotherium	0	0.914667
49	(5, 12)	Artesilla [4,17.5]	Martes	0	0.920000
50	(39, 60)	Wissberg [9,10.35]	Dryopithecus	0	0.924083
51	(15, 11)	Baigneaux en Beauce [5,16.1]	Aureliachoerus	0	0.933917
52	(50, 72)	Kalfa [9,10.35]	Eomellivora	0	0.940583
53	(80, 110)	Samos (A 1) [12,8.05]	Ancylotherium	0	0.941083
54	(105, 126)	Perpignan [15,3.8] *	Lynx	0	0.945333
55	(44, 65)	Can Ponsic I [9,10.35]	Thalassictis	0	0.947417
56	(7, 13)	Els Casots [4,17.5]	Pseudaelurus	0	0.954667
57	(111, 119)	Etouaires [16,3]	Canis	0	0.955500
58	(55, 81)	Terrassa [10,9.25]	Tragoptax	0	0.962000
59	(104, 120)	Kvabebi [16,3]	Nyctereutes	0	0.964750
60	(44, 3)	Can Ponsic I [9,10.35]	Amphicyon	0	0.973917

	$(n, m)$	Site	Genus	$X_{nm}$	$P(X_{nm} = 1)$
61	(101, 96)	Weze 1 [15,3.8]	Stephanorhinus	0	0.984667
62	(64, 86)	Arquillo 1 [13,6.2]	Lycyaena	0	0.985000
63	(43, 3)	Eppelsheim [9,10.35]	Amphicyon	0	0.986417
64	(20, 20)	Contres MN 5 [5,16.1]	Eotragus	0	0.987500
65	(113, 126)	La Puebla de Valverde [17,2.26]	Lynx	0	0.989250
66	(52, 12)	Dorn Dürkheim [11,8.6]	Martes	0	0.989750
67	(105, 73)	Perpignan [15,3.8] *	Hipparion	0	0.990333
68	(6, 3)	Artenay [4,17.5]	Amphicyon	0	0.990500
69	(22, 32)	Vieux Collonges [5,16.6]	Ischyriactis	0	0.990667
70	(92, 81)	Prochoma [11,8.6]	Tragoportax	0	0.992750
71	(55, 79)	Terrassa [10,9.25]	Microstonyx	0	0.994083
72	(89, 81)	Vathylakkos 3 (VAT) [11,8.6]	Tragoportax	0	0.994583
73	(81, 83)	Halmyropotamos (HAL) [12,8.05]	Amphimachairoidus	0	0.996167
74	(14, 10)	La Romieu [4,17.5] *	Procervulus	0	0.997250
75	(72, 62)	Eldari I [9,9.55]	Tetralophodon	0	0.997917
76	(49, 16)	Los Valles de Fuentidueña [9,10.35]	Dorcatherium	0	0.998333
77	(77, 95)	Pikermi [12,8.05]	Choerolophodon	0	0.998833
78	(110, 96)	Villaroya [16,3]	Stephanorhinus	0	0.999250
79	(8, 10)	Erkertshofen 2 [4,17.5]	Procervulus	0	0.999583
80	(56, 70)	Crevillente 2 [11,8.6] *	Indarctos	0	0.999667
81	(115, 120)	Saint Vallier [17,2.26] *	Nyctereutes	0	0.999750
82	(105, 118)	Perpignan [15,3.8] *	Anancus	0	0.999833
83	(42, 30)	Can Llobateres I [10,9.45] *	Lartetotherium	0	0.999917
84	(43, 16)	Eppelsheim [9,10.35]	Dorcatherium	0	0.999917
85	(49, 37)	Los Valles de Fuentidueña [9,10.35]	Protictitherium	0	0.999917
86	(110, 87)	Villaroya [16,3]	Gazella	0	1.000000
87	(19, 29)	Hambach 6C [6,13.85]	Anchitherium	0	1.000000
88	(27, 13)	Neudorf Spalte [6,13.85]	Pseudaelurus	0	1.000000
89	(27, 3)	Neudorf Spalte [6,13.85]	Amphicyon	0	1.000000
90	(30, 16)	Sansan [6,13.85] *	Dorcatherium	0	1.000000
91	(31, 3)	Çandir [6,13.85]	Amphicyon	0	1.000000
92	(32, 3)	Pasalar [6,14.75]	Amphicyon	0	1.000000
93	(35, 13)	Steinheim [7,11.85]	Pseudaelurus	0	1.000000
94	(36, 30)	Sant Quirze [7,11.85]	Lartetotherium	0	1.000000
95	(41, 44)	Massenhausen [9,11]	Chalicotherium	0	1.000000
96	(47, 44)	Hostalets de Pierola Superior [9,10.35]	Chalicotherium	0	1.000000
97	(51, 56)	Buzhor 1 [9,10.35]	Alicornops	0	1.000000
98	(65, 62)	Cerro de la Garita [12,7.65]	Tetralophodon	0	1.000000
99	(71, 85)	Novo Elizavetovka [12,8.05]	Ictitherium	0	1.000000
100	(74, 80)	Taraklia [13,6.75]	Adcrocuta	0	1.000000