

Mapping Our Sampling at Kostenki 14 to the Published Stratigraphy

South Section	Depth (cm)	Our layer	Published layer	Description	Depth (m)	Notes	14C Dates	IRSL Dates
EFD4L208	-5.5	1	15	Reddish-brown loam containing lenses of volcanic ashes	0.1-0.4	HVA	32420 ± 440/420	
EFD4L209	1	2	16	Whitish hydromorphic marl loessic loam, similar to layer 14 but more dense	0.1-0.5			
EFD4L210	7	3	16					
EFD4L218	15	3	16					
EFD4L219	15	3	16					
EFD4L211	24	3	16	Fossil soil made by gray-brown, dense, fine, hydromorphic layered loam	0.2-0.6	IVa	33280 ± 650 33200 ± 510	
EFD4L212	30.5	4	17					
EFD4L213	38	4	17					
EFD4L214	44	4	17					
EFD4L215	52	5	18-21	Brown fossil soil (Laschamp excursion)	0.01-0.2	CH	34550 ± 610/480	
EFD4L216	59	6	22					
EFD4L217	67	7	23					
EFD4L220	72	7	23					
EFD4T280	0-10	2	16	Whitish hydromorphic marl loessic loam, similar to layer 14 but more	0.1-0.5			
EFD4T281	10-20	3	16					
EFD4T282	20-30	4	17	Fossil soil made by gray-brown, dense, fine, hydromorphic layered	0.2-0.6	IVa	33280 ± 650 33200 ± 510	
EFD4T283	30-42	4	17					
EFD4T284	42-52	5	18-21	Brown fossil soil (Laschamp excursion)	0.01-0.2	CH	34550 ± 610/480	
EFD4T285	52-61	6	22					

East Section

EFD4L221	-22	6	22	Brown fossil soil (Laschamp excursion)	0.01-0.2	CH	34550 ± 610/480	
EFD4L222	-12	7	23	Colluvial horizon made by altered layers of light brown, reddish loams and lenses of chalk rubble	0.1-1.4	HMS		
EFD4L223	5	7	23					
EFD4L224	20	7	23					
EFD4L225	35	7	23					
EFD4L226	44	8	24	Gray-brown indistinct layered loam (slope of a stream bank)	0.1-0.5	IVb/1	36540 ± 270	46.6 ± 3.9 ka
EFD4L227	55	9	24					
EFD4L228	70	9	24					
EFD4L229	86	9	24					
EFD4L241	87	9	24					
EFD4L230	101	9	24					
EFD4L231	109	9	24	Bottom of the stream bed in cavities where the cultural remains of IVb cultural layer accumulated		IVb/2		
EFD4L232	118	9	24					
EFD4L233	127	10	25	Black, intensively humified loam with the lenses of red-brick colour	0.1-0.3	HH	36320 ± 270 36010 ± 250	34.3 ± 2.9 ka 44.9 ± 3.8 ka
EFD4L234	134	10	25-26					
EFD4L235	141	10	26	Layered sandy-gray-loam sediments	0.1-0.6			
EFD4L236	151	11	26					
EFD4L237	160	11	27					
EFD4L242	164	11	27					
EFD4L238	175	11	27					
EFD4L239	179	11	27					
EFD4L240	186	11	27	Brown fossil soil (Laschamp excursion)	0.01-0.2	CH	34550 ± 610/480	
EFD4T286	-24 to 18 cm	6	22					
EFD4T287-90	-18 to +42 cm	7	23	Colluvial horizon made by altered layers of light brown, reddish loams and lenses of chalk rubble	0.1-1.4	HMS		
EFD4T291	42-47	8	24	Grey-brown indistinct layered loam (the slope of a stream bank)	0.1-0.5	IVb/1	36540 ± 270	46.6 ± 3.9 ka
EFD4T292-96	47-126	9	24					
EFD4T297-98	126-140	10	25	Bottom of the stream bed in cavities where the cultural remains of IVb cultural layer accumulated		IVb/2		
EFD4T299	140-156	10-11	26	Black, intensively humified loam with the lenses of red-brick colour (burnt?) loam with cultural remains, designated as 'horizon of hearth'	0.1-0.3	HH	36320 ± 270 36010 ± 250 37240 ± 430	34.3 ± 2.9 ka 44.9 ± 3.8 ka
EFD4T300-301	156-188	11	27	Layered sandy-gray-loam sediments	0.1-0.6			

HVA - horizon (cultural layer) in volcanic ash

CH - indistinct cultural horizon of bones and isolated chipped stone

HMS - horizon of mammoth skeleton

HH horizon of hearths