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Between hearths and volcanic ash: The SU 13 palimpsest of the Oscurusciuto rock shelter (Ginosa e Southern Italy): Analytical and interpretative questions

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Table. S1: RMUs description. Ref.n.= number of refitted pieces; C= cortical flakes; M= management of convexities flakes; P= aims of the reduction sequences (target objects); A= Phase of abandon which means cores; I= indeterminate items; TOT= total number of pieces.

RMU	Ref. N.	Description of raw material					Technological composition						
		Lithological Class	Cortex Thickness	Cortex Texture	Cortex Color	Surface Color	C	M	P	T	A	I	TOT
1	7	Fine chert	Thin	Rough	Grey	Light grey	3	18	6	0	1	30	58
2	0	Fine chert	\	\	\	Pinkish grey	0	1	0	1	0	0	2
9	0	Fine chert	Thick	Rough	Grey	Grey	1	8	1	0	0	1	11
12	0	Middle chert	Thin	Smooth	Whitish	Grey	5	23	4	0	1	9	42
18	2	Middle chert	\	\	\	Grey	0	0	2	0	0	0	2
31	0	Middle chert	Thin	Smooth	Brown	Light green	1	16	2	0	1	5	25
41	0	Middle siliceous limestone	\	\	\	Yellow	0	0	1	0	0	0	1
53	0	Middle chert	Thick	Smooth	Yellow	Yellow green	0	11	3	0	0	4	18
55	2	Fine quartzarenite	Thin	Smooth	Beige	Dark grey greenish	3	17	9	1	0	8	38
56	2	Middle quartzarenite	Thin	Smooth	Greenish brown	Olive green	3	37	0	0	0	22	62
64	0	Middle quartzarenite	Thin	Smooth	Brownish	Pinkish grey	0	11	3	3	0	5	22
66	0	Coarse chert	Thin	Smooth	Beige	Brown	1	3	5	0	0	5	14
91	2	Middle siliceous limestone	Thin	Rough	Brown	Dark olive green	3	4	1	0	0	2	10
96	2	Middle siliceous limestone	Thin	Smooth	Olive green	Olive green	2	5	3	0	0	3	13
132	0	Fine jasper	Thin	Rough	Greenish	Green	1	24	3	0	0	13	41
134	0	Fine jasper	Thin	Rough	Green	Green	1	15	1	0	0	15	32
136	0	Fine jasper	Thin	Rough	Bluish green	Bluish grey	2	2	2	0	0	4	10
137	0	Fine jasper	Thin	Smooth	Reddish grey blue	Black brown green	5	19	2	0	0	10	36
139	0	Fine jasper	Thin	Rough	Yellow green	Black green red	0	9	2	0	0	3	14
143	0	Fine jasper	Thin	Smooth	Yellow orange	Greenish yellow	5	15	1	0	0	7	28
146	2	Middle siliceous limestone	Thin	Smooth	Light brown green	Greenish grey reddish brown	1	8	4	0	0	2	15
161	0	Fine jasper	Thin	Smooth	Brown	Brown	1	11	3	0	0	3	18
177	4	Fine jasper	Thin	Smooth	Brown	Reddish brown	9	8	5	0	0	9	31
193	2	Middle siliceous limestone	Thin	Smooth	Beige	Black striped dark green	1	23	3	1	0	17	45
197	0	Fine jasper	Thin	Smooth	Light green	Black striped green	3	11	0	0	0	19	33
255	0	Middle siliceous limestone	Thin	Smooth	Brown	Bluish brown	0	6	1	0	0	8	15
259	0	Fine jasper	Thin	Smooth	Greenish	Brown inner part greenish	0	2	3	0	0	5	10
263	0	Middle siliceous limestone	Thin	Smooth	Brown	Bluish brown	1	6	2	0	0	9	18
264	0	Middle siliceous limestone	Thin	Smooth	Black	Black	1	13	19	2	1	5	41
269	0	Fine jasper	Thin	Smooth	Light brown	Black orange striped green	7	10	2	0	1	7	27
279	0	Fine jasper	Thin	Smooth	Brownish yellow	Green	1	8	2	1	0	1	13

280	0	Fine jasper	Thin	Smooth	Greenish	Green	2	6	3	0	0	5	16
283	0	Fine jasper	Thin	Rough	Yellow	Green	7	16	1	1	1	25	51

Supplementary data

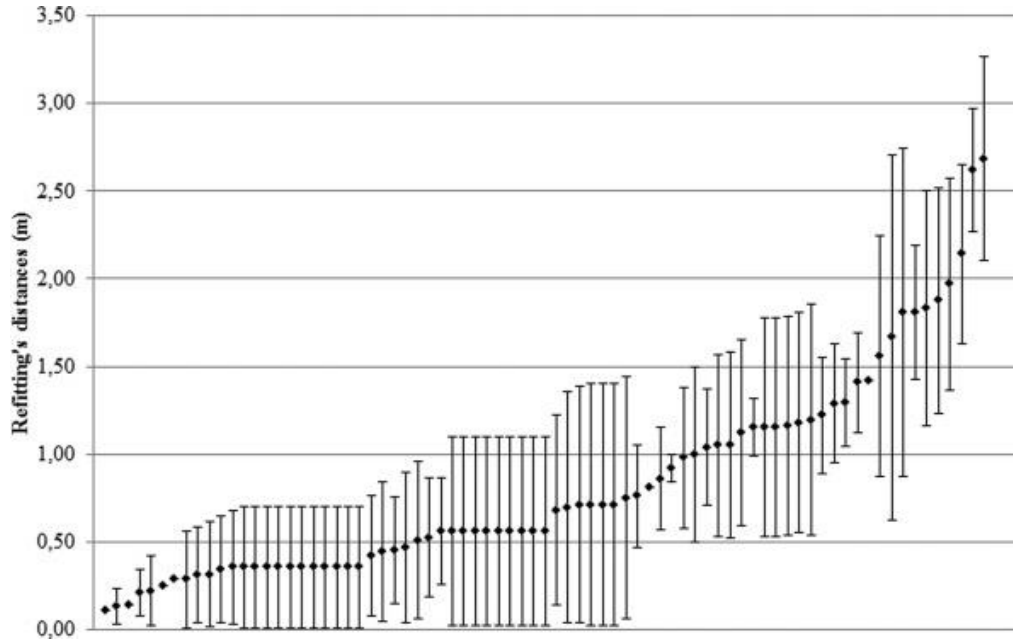


Fig. S1: Refitting distances with error bars.

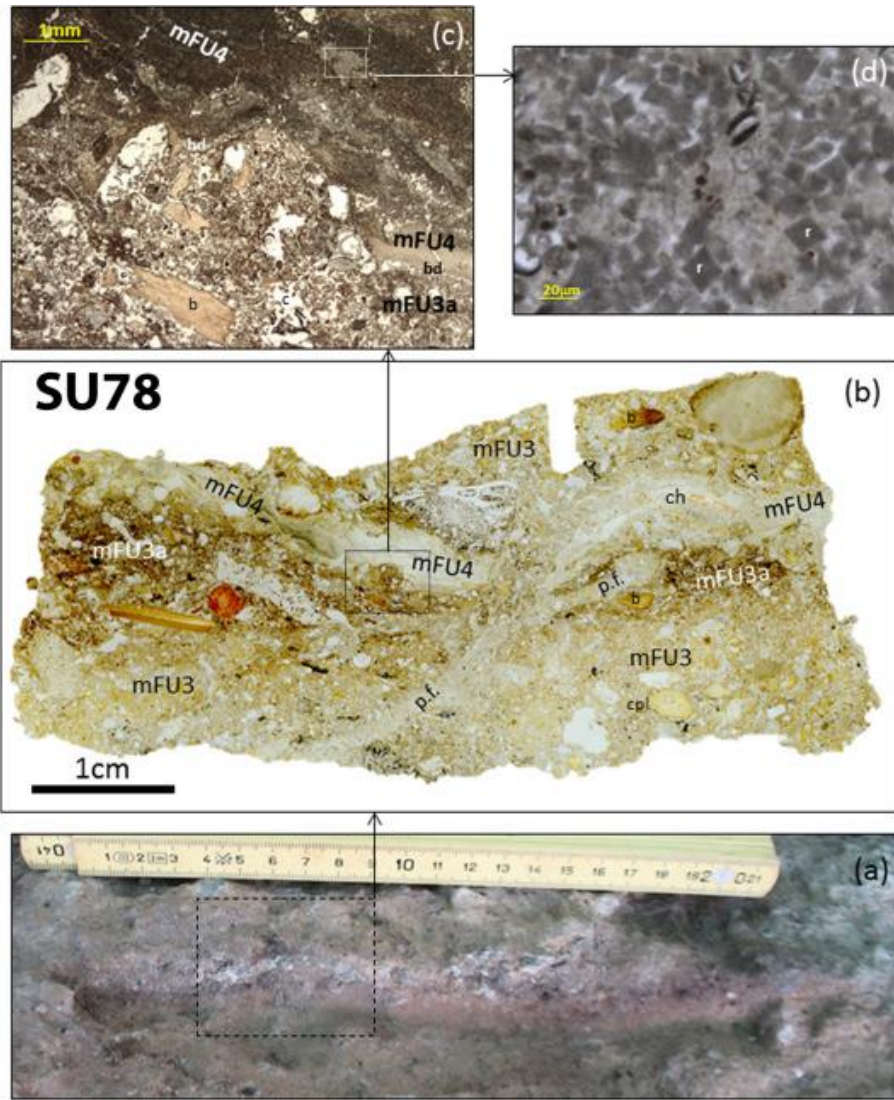


Fig. S2: Close-up photograph of the (micro) stratigraphic profile of hearth SU 78; (b) Scan of a petrographic thin section processed from an intact block sampled in correspondence of the box in figure (a). Note several micro-fabric units (mFU), a chert flake (ch) deposited in the wood ash layer (mFU4), bone fragments (b), a coprolite (cpl) in the rock shelter deposit (mFU3), and the passage features (p.f.) cutting through 3 mFU; (c) Photomicrograph (plane-polarised light) of the micro-stratigraphic boundary between the laminated wood ash layer (mFU4) and the underlying dark brown rock shelter deposit (mFU3a). Note the sharp but irregular boundary (bd) between the two mFUs. Bone (b) and weathered charcoal (c) fragments are abundant in mFU3a; (d) Photomicrograph from the boxed area in figure (c) showing a domain of wood ash characterized by the presence of rhomb shaped oxalate pseudomorphs composed of pyrogenic calcite (r).

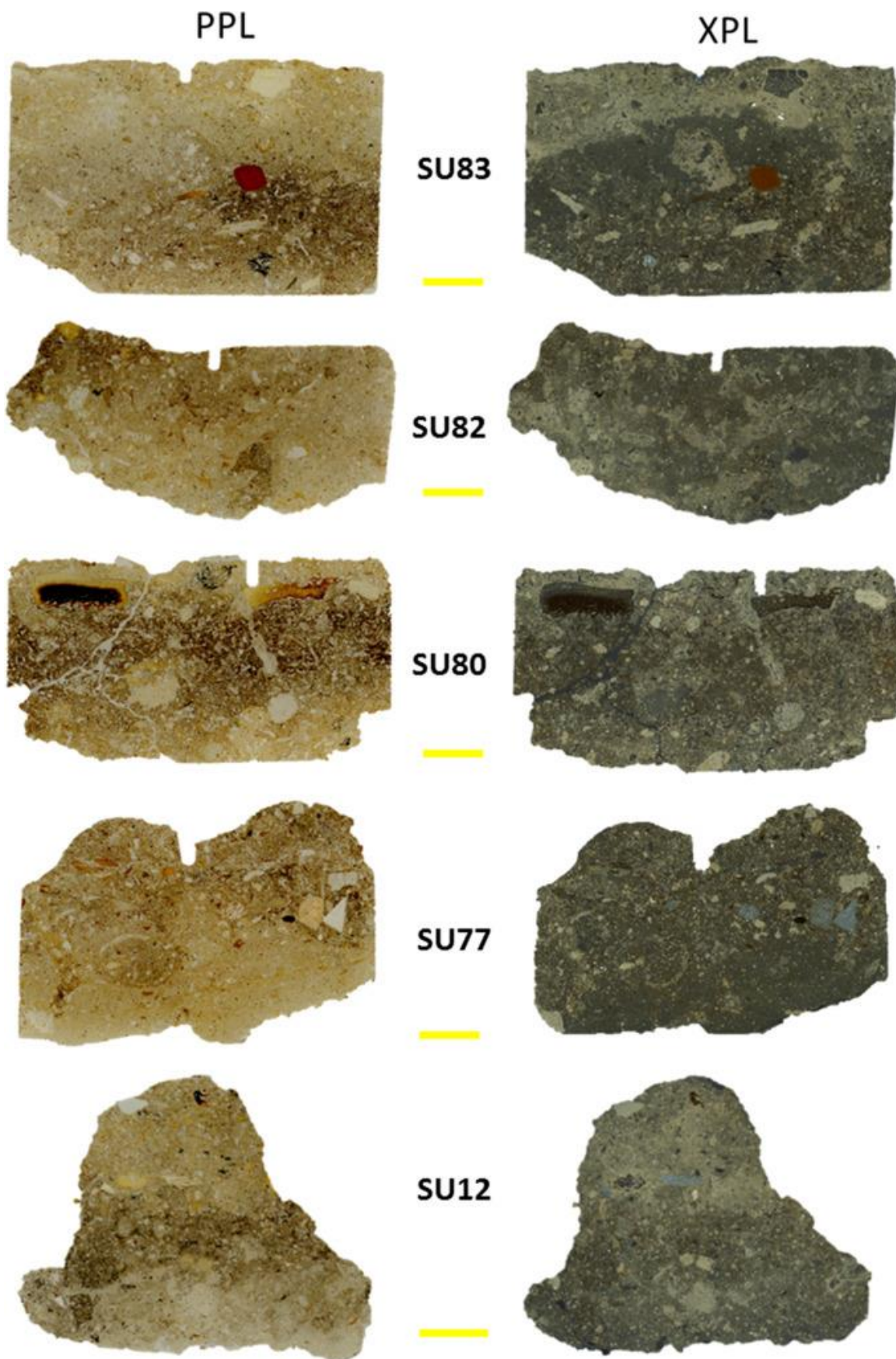


Fig. S3: Cut-outs of the digital scans in plane-(PPL) and cross-(XPL) polarised light of the petrographic thin sections prepared from intact blocks of hearths SU 12, SU 77, SU 80, SU 82, and SU 83. Note the wood ash layers at the top and the underlying discolored layers diffusing into lighter color rock shelter sediment.

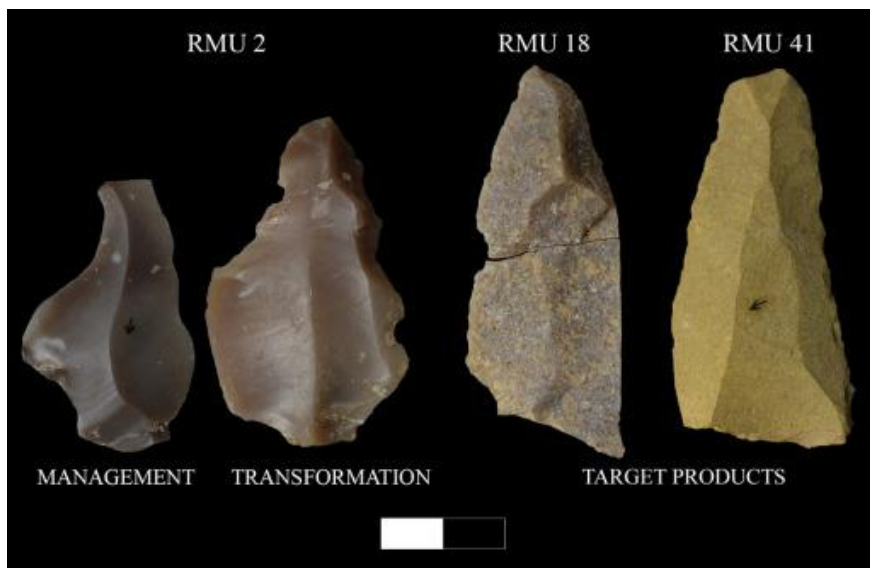


Fig. S4: Photo imported RMU. RMU 41 consists of a single target piece, a long convergent flake, made in a variability of siliceous limestone unique in the level. RMU 2 where two items, a Levallois retouched flake and a debordant flake in a very fine texture flint (probably imported). RMU 18 two fragments of an elongated flake.

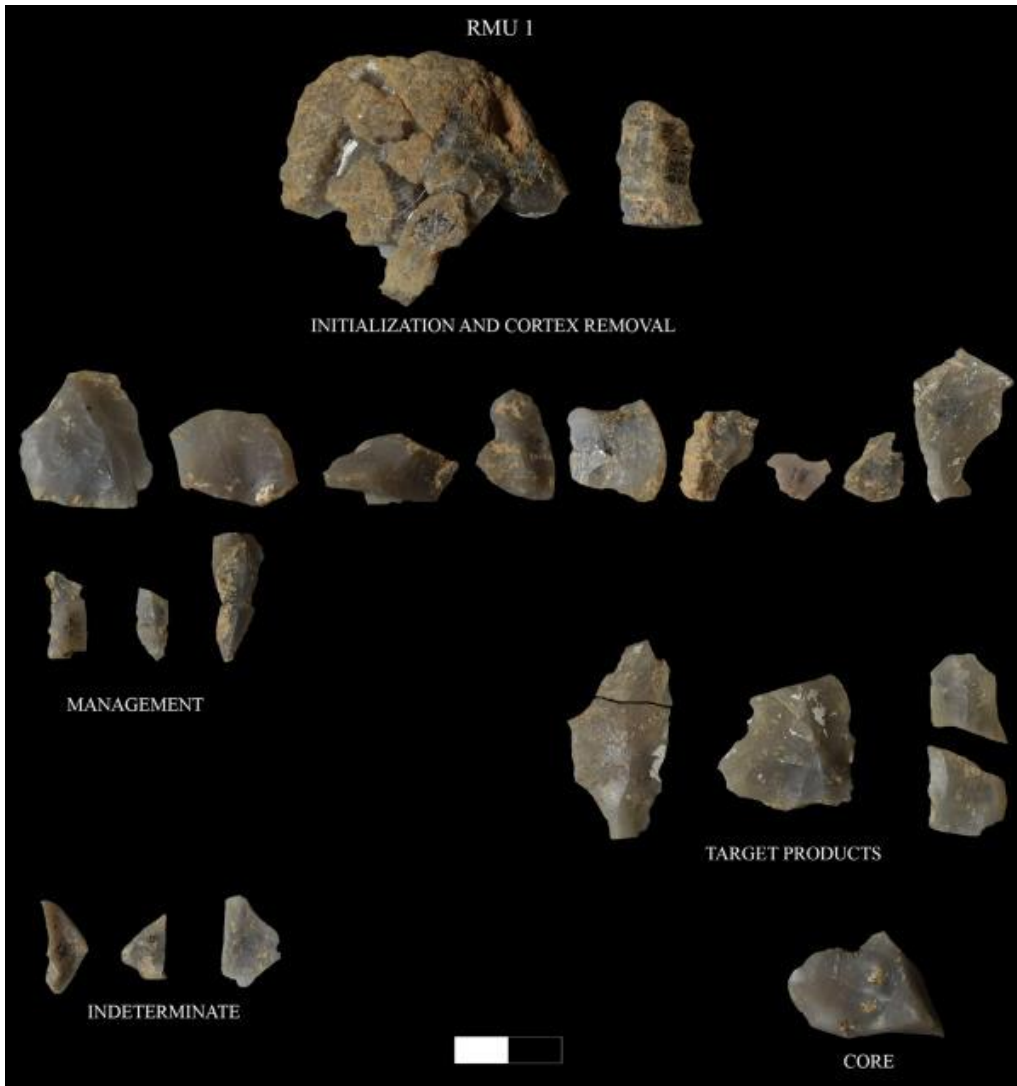


Fig. S5: Photo RMU 1. 34 micro-flakes and micro-fragments are not included in the photo.

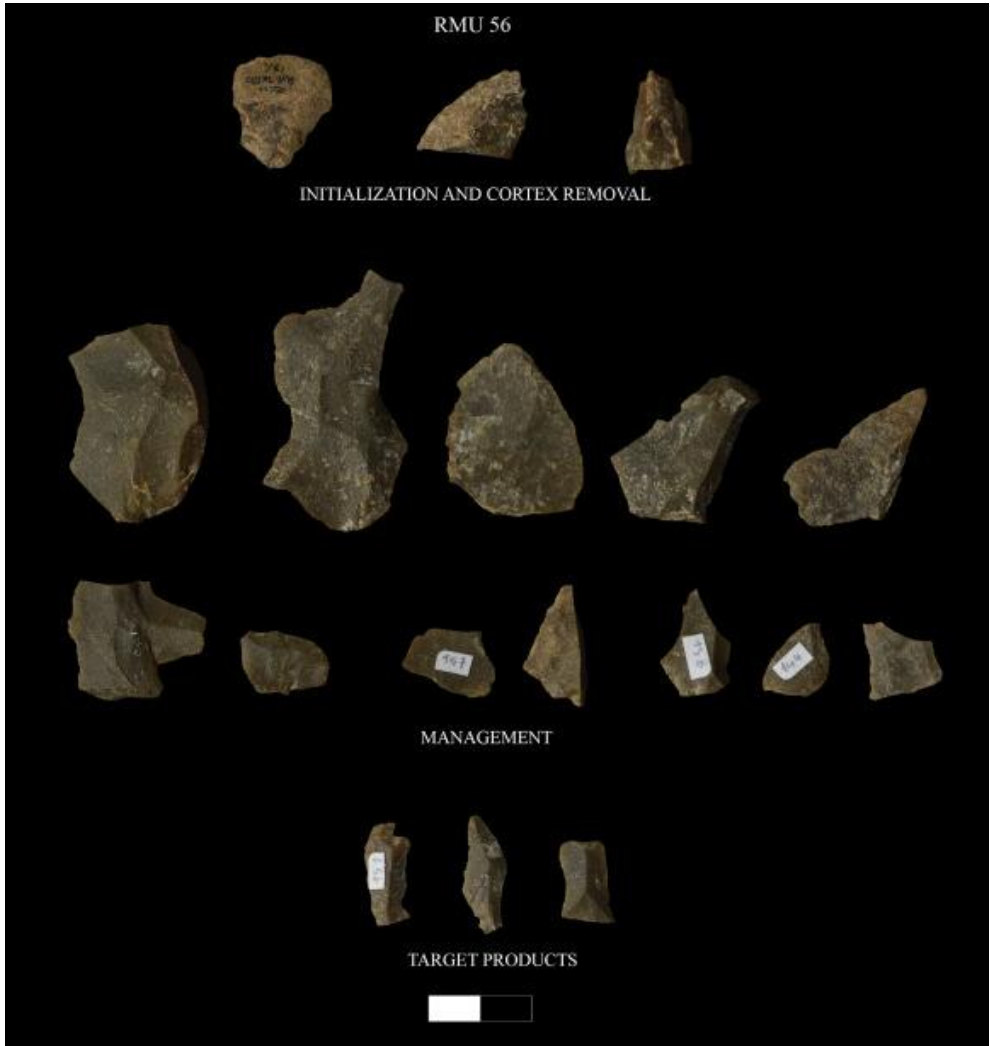


Fig. S6: Photo RMU 56. 46 micro-flakes and micro-fragments are not included in the photo.

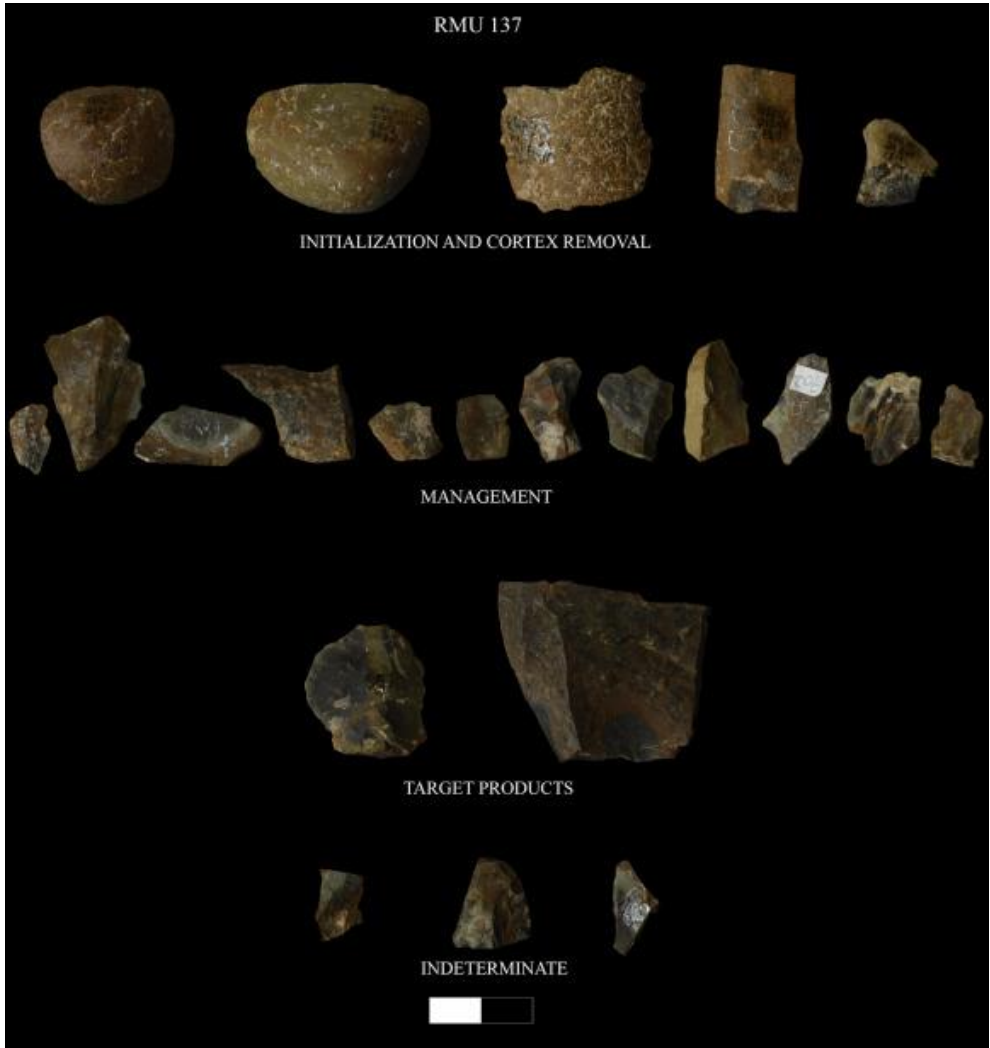


Fig. S7: Photo RMU 137. 14 micro-flakes and micro-fragments are not included in the photo.



Fig. S8: Photo RMU 177. 8 micro-flakes and micro-fragments are not included in the photo.

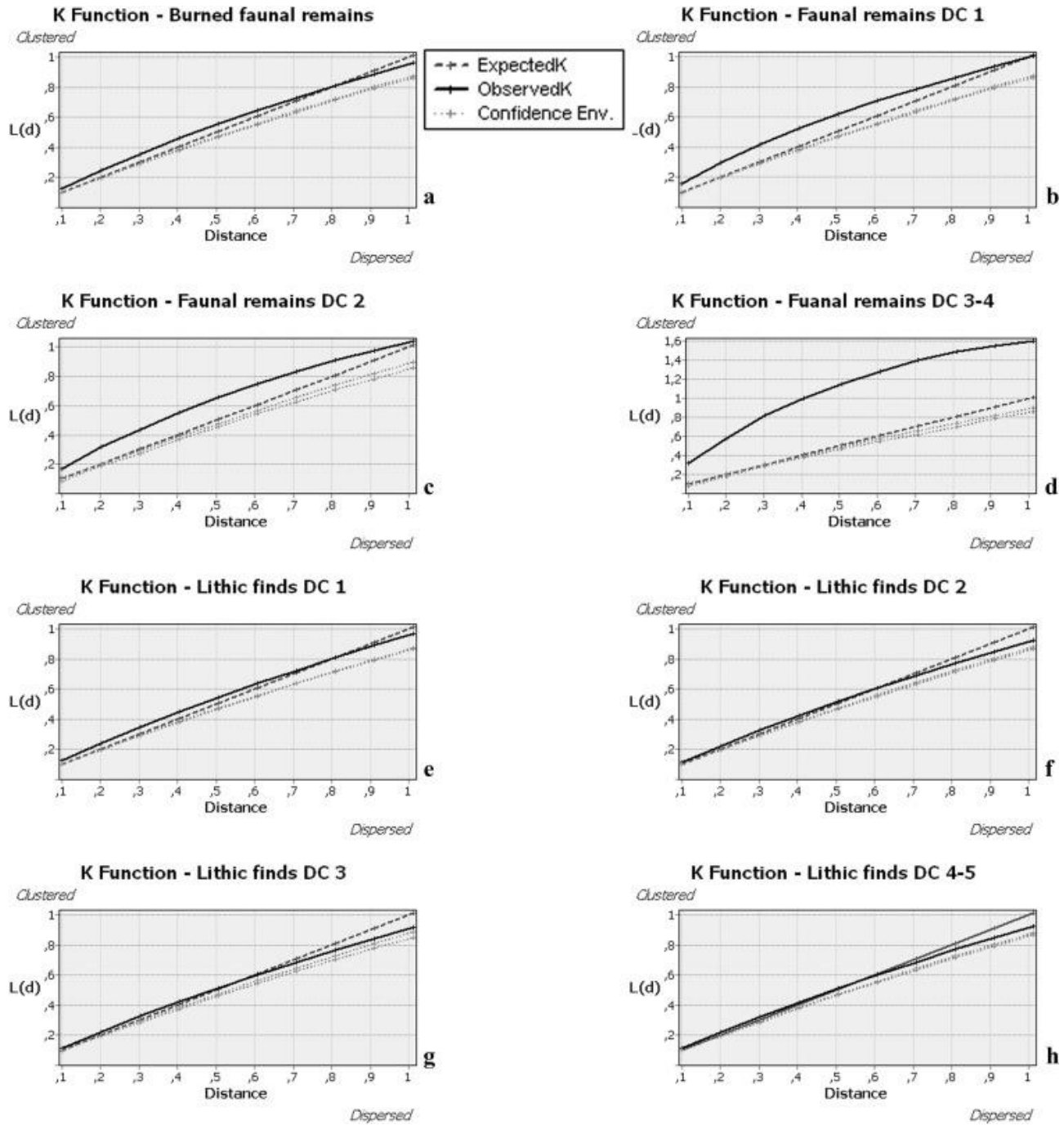
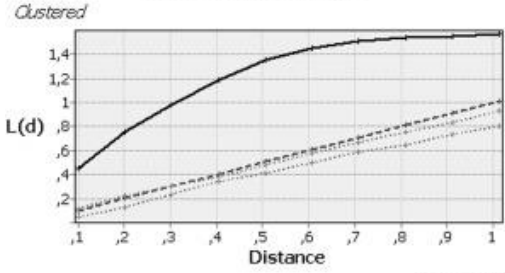


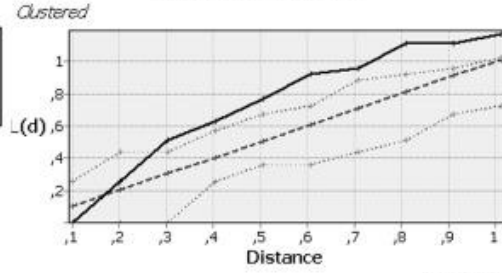
Fig. S9: K function of the burned faunal remains (a), Dimensional Classes of faunal remains (b-d) and Dimensional Classes of lithic finds (e-h).

K Function - RMU 1



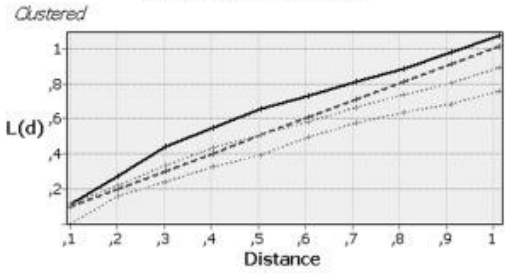
a

K Function - RMU 9



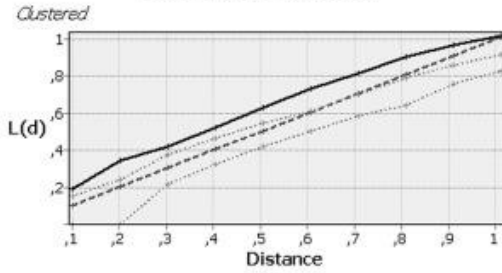
b

K Function - RMU 12



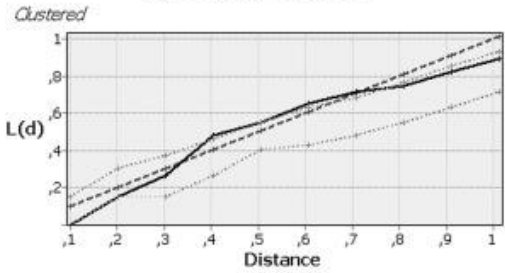
c

K Function - RMU 31



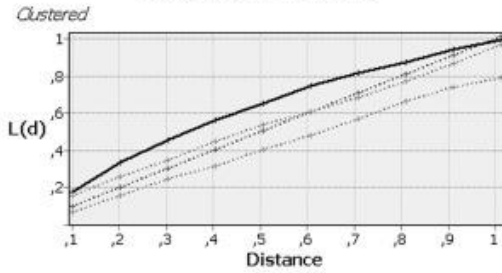
d

K Function - RMU 53



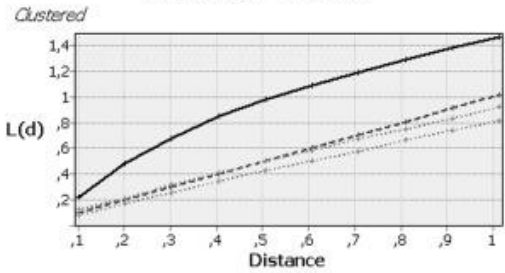
e

K Function - RMU 55



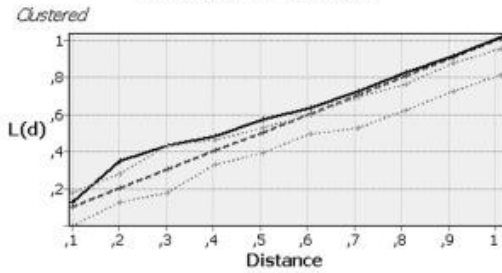
f

K Function - RMU 56



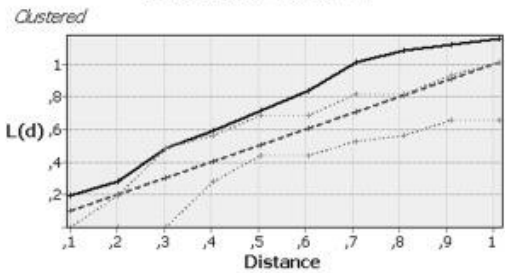
g

K Function - RMU 64



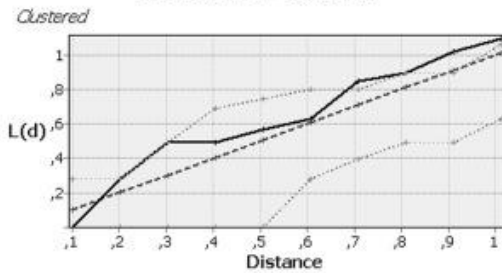
h

K Function - RMU 66



i

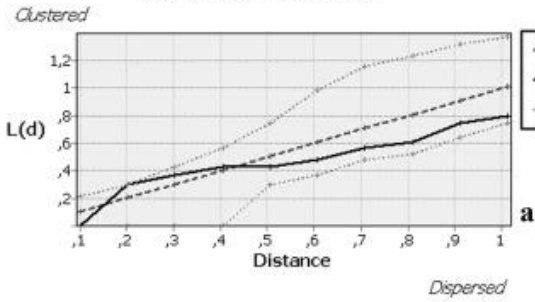
K Function - RMU 91



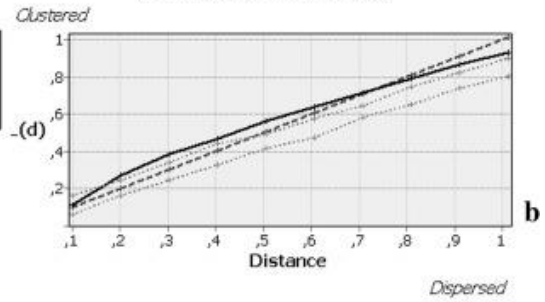
l

Fig. S10: K function of the RMU 1 (a), RMU 9 (b), RMU 12 (c), RMU 31 (d), RMU 53 (e), RMU 55 (f), RMU 56 (g), RMU 64 (h), RMU 66 (i), RMU 91 (l).

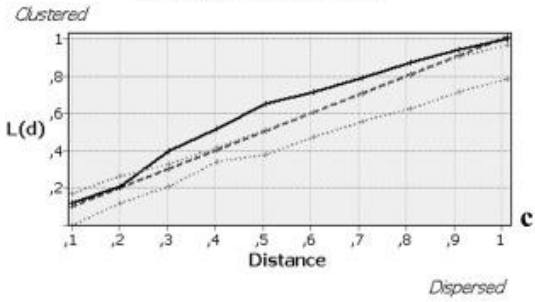
K Function - RMU 96



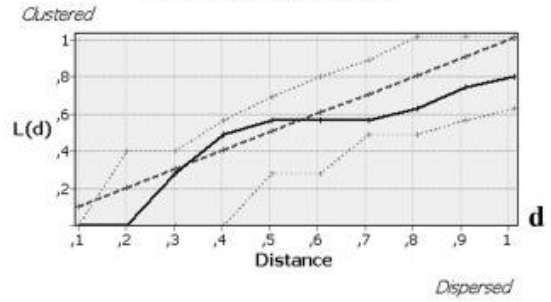
K Function - RMU 132



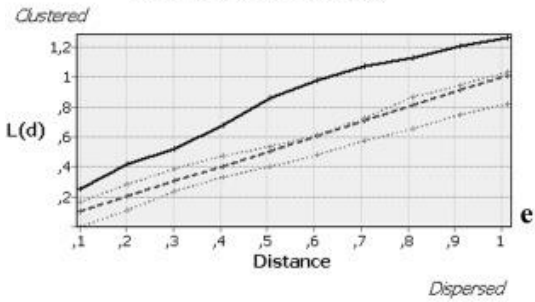
K Function - RMU 134



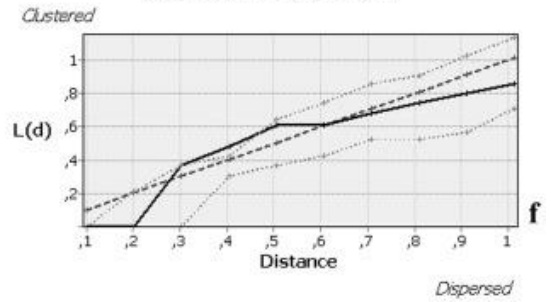
K Function - RMU 136



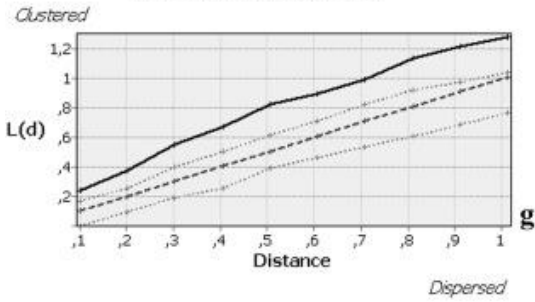
K Function - RMU 137



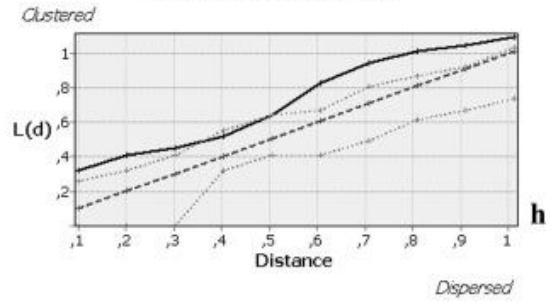
K Function - RMU 139



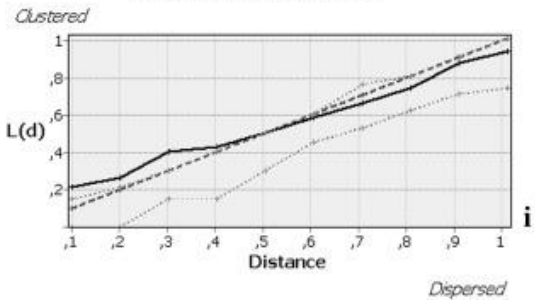
K Function - RMU 143



K Function - RMU 146



K Function - RMU 161



K Function - RMU 177

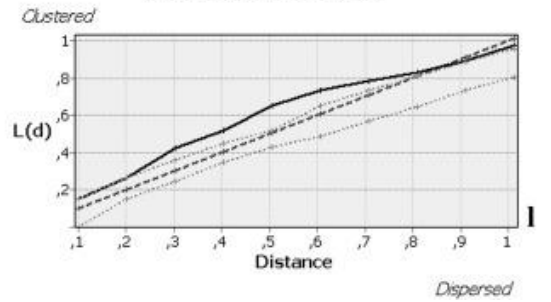
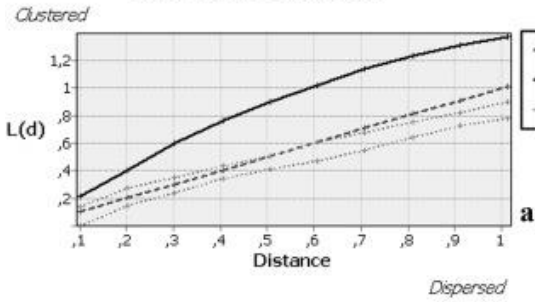


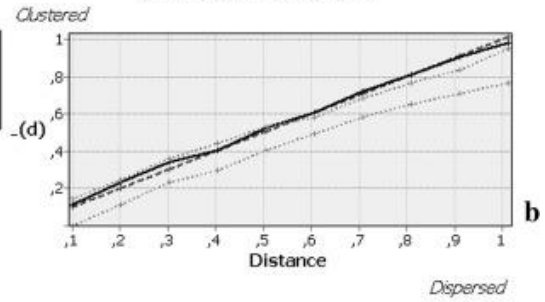
Fig. S11: K function of the RMU 96 (a), RMU 132 (b), RMU 134 (c), RMU 136 (d), RMU 137 (e), RMU 139 (f), RMU 143 (g), RMU 146 (h), RMU 161 (i), RMU 177 (l).

K Function - RMU 193

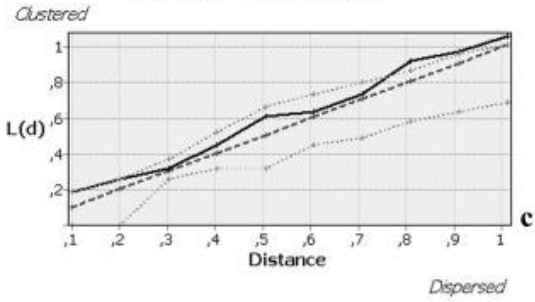


- - - ExpectedK
 ——— ObservedK
 ···· Confidence Env.

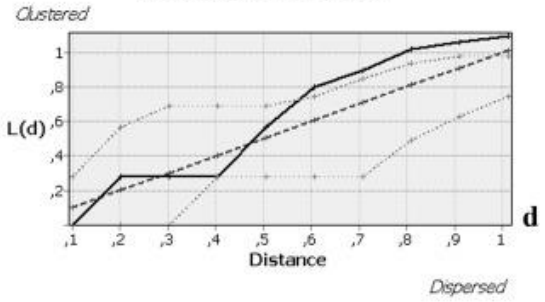
K Function - RMU 197



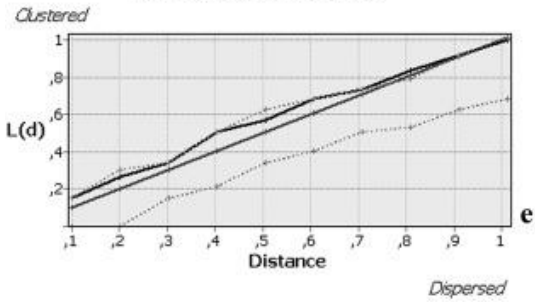
K Function - RMU 255



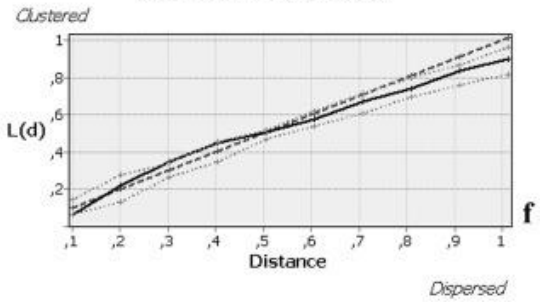
K Function - RMU 259



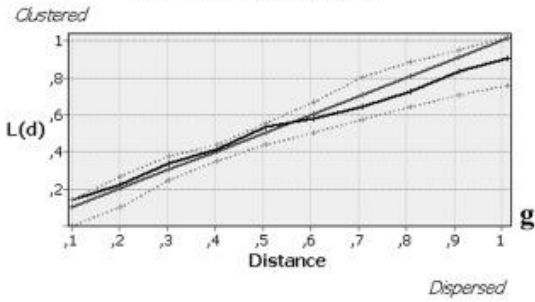
K Function - RMU 263



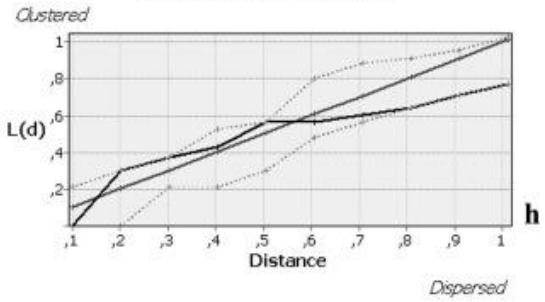
K Function - RMU 264



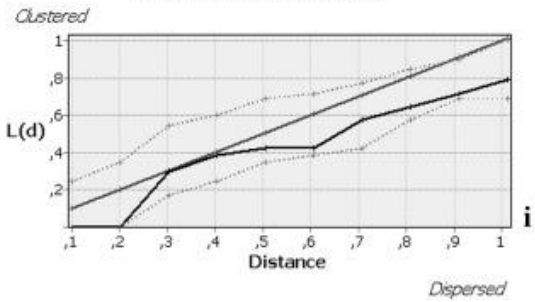
K Function - RMU 269



K Function - RMU 279



K Function - RMU 280



K Function - RMU 283

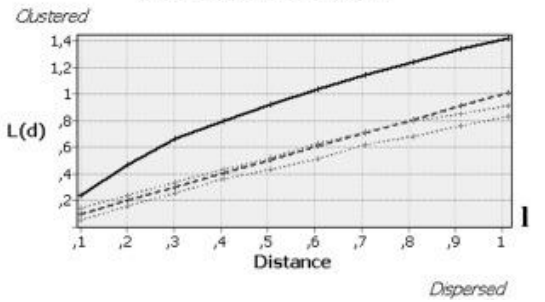


Fig. S12: K function of the RMU 193 (a), RMU 197 (b), RMU 255 (c), RMU 263 (d), RMU 259 (e), RMU 264 (f), RMU 269 (g), RMU 279 (h), RMU 280 (i), RMU 283 (l).

