

Prehistoric Exploitation of Minerals Resources. Experimentation and Use-wear Analysis of Grooved Stone Tools from Grotta della Monaca (Calabria, Italy)

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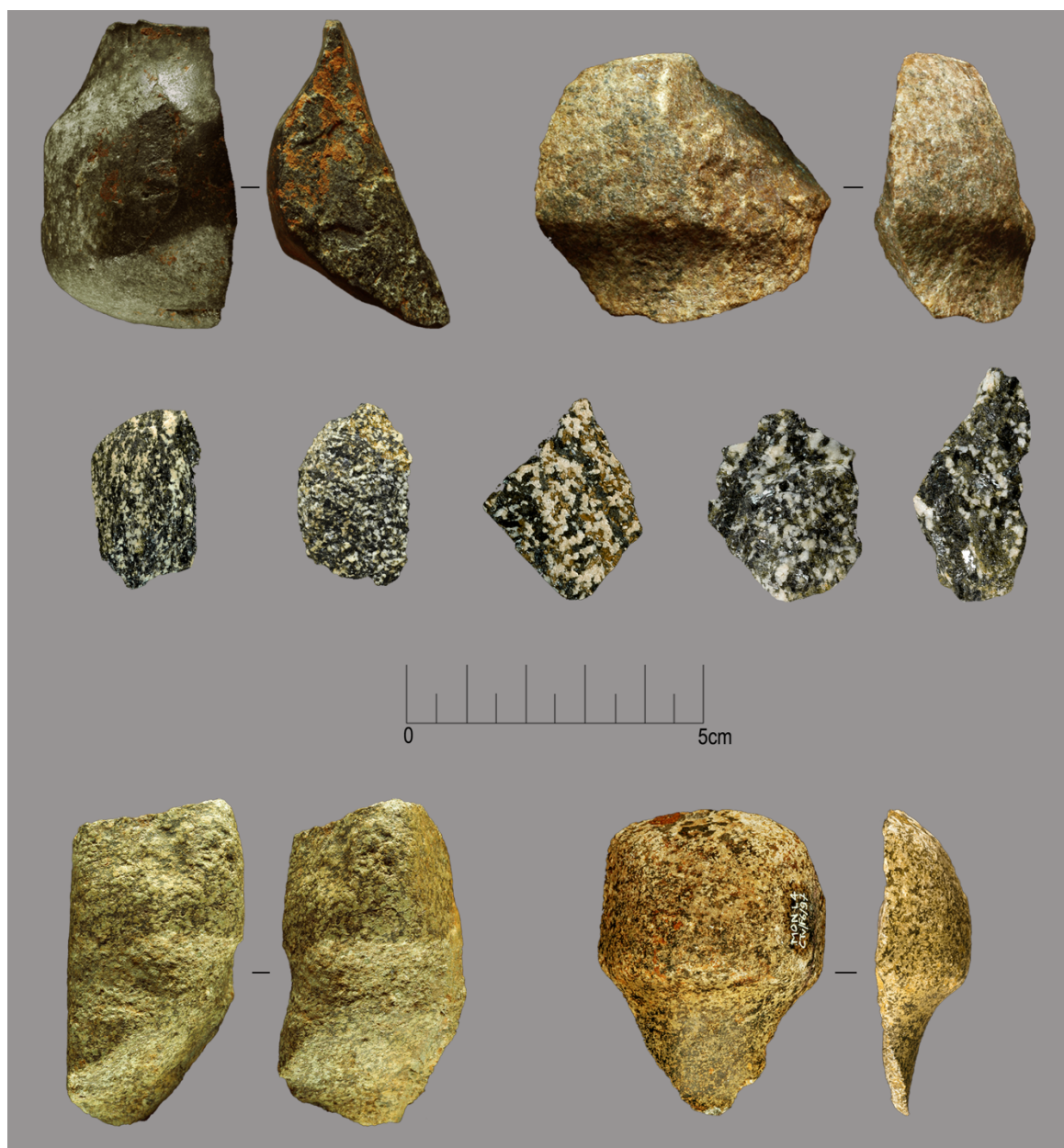


Fig.1. Fragments of archaeological grooved stone tools and flakes found at Grotta della Monaca.

ID	Type of tool	Area of discovery	Weight (g.)	Macro-traces	Micro-Traces	Interpretation
L11	Hammer-axe	MON/CT v	610	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L21	Hammer	MON/CT v/m5	1439	Overlapping pits; chaotic micro fractures	chaotic polishes, with rough and flat/granular spots associated.	Mix minerals
L22	Pick	MON/CTs x	973	Overlapping pits; chaotic micro fractures	chaotic polishes, with rough and flat/granular spots associated.	Mix minerals, probably calcite and goethite
L15	Undefined, Fragments	MON/CT v/rV	714	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography	Copper minerals extraction
L8	Hammer	MON/CT dx	3112	Micro-fractures with tetrahedron and pointed morphology of the grains; sheen appearance	Rough tending smooth polishes with domed topography and high level of sheen. The macro-topography appears like sinuous	Calcite
L13	Hammer-axe	MON/CT v	874	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L217	Hammer	MON/CT dx	780	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L7	Hammer-axe	MON/CT dx	1036	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography	Copper minerals extraction
L10	Hammer-axe	MON/CT v/E7	1734	Overlapping pits; chaotic micro fractures	chaotic polishes, with flat/granular spots associated.	Mix minerals, calcite and copper

L222	Pick	MON/SP	2047	Micro-fractures with tetrahedron and pointed morphology of the grains; sheen appearance	Rough tending smooth polishes with domed topography and high level of sheen. The macro-topography appears like sinuous	Calcite
L215	Hammer-axe	MON/CT v/m5v	1584	Overlapping pits; chaotic micro fractures	chaotic polishes, with flat/granular spots associated.	Mix minerals, calcite and copper
L14	Hammer	MON/CT v	1257	Overlapping pits; chaotic micro fractures	chaotic polishes, with flat/granular spots associated.	Mix mineral, calcite and copper
L221	Hammer-axe	MON/CT dx	609	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography	Copper minerals extraction
L6	Hammer	MON/CT dx	671	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L3	Hammer	MON/CT v	644	Grains with “Step” morphology	Polishes associated with oriented striations. Smooth texture and flat topography. Copper ore residues are present	Copper minerals extraction
L18	Pick	MON/CT v/m5	1784	Micro-fractures with tetrahedron and pointed morphology of the grains; sheen appearance	Rough tending smooth polishes with domed topography and high level of sheen. The macro-topography appears like sinuous	Calcite
L218	Hammer-axe	Fragm.1M ON/Ctsx.s /SALTO; Fragg.2 CTv/S7	1044	Micro-fractures with tetrahedron and pointed morphology of the grains; sheen appearance	Rough tending smooth polishes with domed topography and high level of sheen. The macro-topography appears like sinuous	Calcite
L37	Hammer	MON/CT dx	1132	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and	Copper minerals extraction

					flat topography; long and oriented striations	
L38	Pick-hammer	MON/CT v	1641	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations; Copper ore residues are present	Copper minerals extraction
L64	Hammer-axe	MON/CT dx	1152	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L19	Hammer	MON/CT v/m5	1391	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations; Copper ore residues are present	Copper minerals extraction
L219	Hammer	MON/CT dx	628	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L216	Undefined, Fragments	MON/CTs x/Salto	645	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations	Copper minerals extraction
L5	Pick	MON/CT v/m5V	2248	Sinuuous micro-topography	Rough tending smooth polishes with domed topography and high level of sheen. The macro-topography appears sinuous	Calcite
L112	Undefined	MON/CT v	539	Grains with “Step” morphology	Levelled area and polishes characterized by smooth texture and flat topography; long and oriented striations; Copper ore residues are present	Copper minerals extraction

Tab. 1. Archeological samples. Type of tool, macro and micro-traces; interpretation of function.