

CHAPTER X

TYPOLOGICAL, TECHNOLOGICAL AND FUNCTIONAL ANALYSES OF MOUSTERIAN POINTS

Supporting Information

Cécile JUNGELS, Aude COUDENNEAU, Anne HAUZEUR & Philippe PIRSON

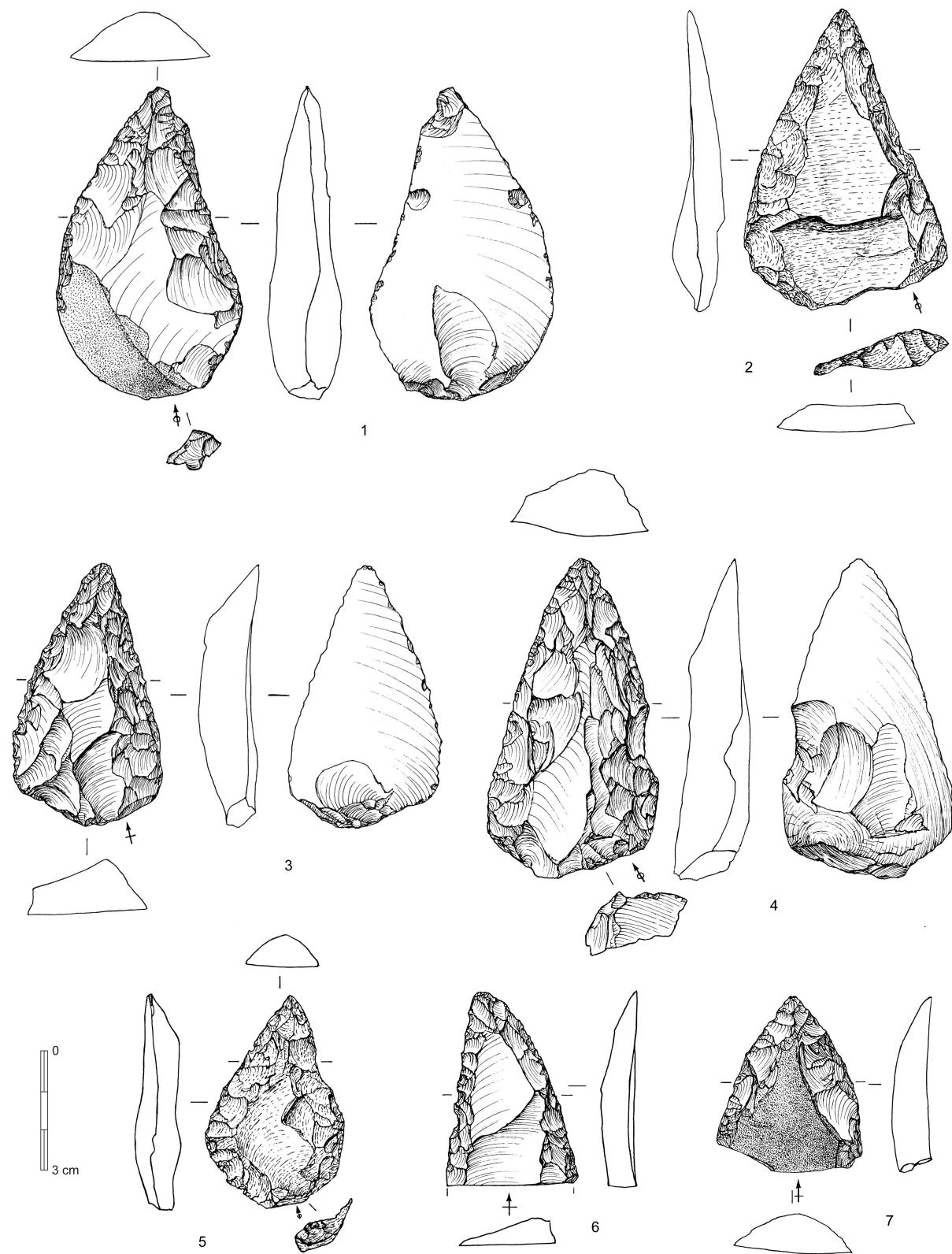
ID no.	MDP 277	MDP 278	MDP 279	MDP 280	MDP 281	MDP 282	MDP 283	MDP 284	MDP 285	MDP 287	MDP 288	MDP 289
<i>Location</i>	<i>Grand Curtius Museum</i>											
<i>Collection</i>	De Puydt											
<i>Layer</i>	terrasse, "second fauna-bearing level"											
<i>Type</i>	Mousterian point											
<i>Preservation</i>	complete											
<i>Axis</i>	offset towards the right	axial	axial	offset towards the left	offset towards the right	axial	axial	offset towards the left	axial	offset towards the left	axial	axial
<i>Raw material</i>	flint											
<i>Length (mm)</i>	54	47	53	52	50	53	45	42	44	51	56	53
<i>Width (mm)</i>	37	39	31	28	28	33	34	42	36	28	28	28
<i>Thickness (mm)</i>	11	10	5	6	8	7	5	8	8	16	16	8
<i>Length index (L/W)</i>	1.5	1.2	1.7	1.9	1.8	1.6	1.3	1.0	1.2	1.8	2.0	1.9
<i>Thickness index (T/W)</i>	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.6	0.3
<i>Macro-traces interpretation (left)</i>	undetermined	undetermined	technological traces	altered	undetermined	use-wear traces	altered	altered	undetermined	undetermined	undetermined	technological traces
<i>Macro-traces interpretation (right)</i>	undetermined	undetermined	undetermined	undetermined	undetermined	technological traces	undetermined	altered	undetermined	undetermined	undetermined	undetermined
<i>Macro-traces general interpretation</i>	undetermined	undetermined	undetermined	undetermined	undetermined	use-wear traces	undetermined	altered	undetermined	undetermined	undetermined	use-wear traces
<i>Macro - Motion type (left)</i>	undetermined	undetermined	-	trampling	undetermined	transverse	trampling	trampling	undetermined	undetermined	-	-
<i>Macro - Motion type (right)</i>	undetermined	undetermined	undetermined	-	undetermined	-	undetermined	trampling	undetermined	undetermined	-	undetermined
<i>Macro - Hardness of the worked material (left)</i>	undetermined	-	-	undetermined	soft	-	-	undetermined	undetermined	undetermined	-	-
<i>Macro - Hardness of the worked material (right)</i>	undetermined	undetermined	undetermined	-	undetermined	-	-	undetermined	undetermined	undetermined	-	undetermined
<i>Micro-traces interpretation (left)</i>	altered	altered	undetermined	altered								
<i>Micro-traces interpretation (right)</i>	altered	altered	undetermined	altered								
<i>Micro - Motion type (left)</i>	-	-	undetermined	-	-	-	-	-	undetermined	-	-	-
<i>Micro - Motion type (right)</i>	-	-	undetermined	-	-	-	-	-	undetermined	-	-	-
<i>Traces interpretation (point)</i>	undetermined	undetermined	technological traces	undetermined	undetermined	technological traces	undetermined	undetermined	undetermined	undetermined	undetermined	use-wear traces
<i>Macro - Motion type (point)</i>	undetermined	undetermined	-	undetermined	-	-	-	-	-	-	-	undetermined
<i>Macro - Hardness of the worked material (point)</i>	undetermined	undetermined	-	undetermined	-	-	-	-	undetermined	undetermined	medium-hard	undetermined
<i>Micro - Motion type (point)</i>	-	-	undetermined	-	-	-	-	-	undetermined	undetermined	undetermined	undetermined
<i>Micro - Hardness of the worked material (point)</i>	-	-	undetermined	-	-	-	-	-	undetermined	undetermined	undetermined	undetermined

X. Typological, technological and functional analyses of Mousterian points

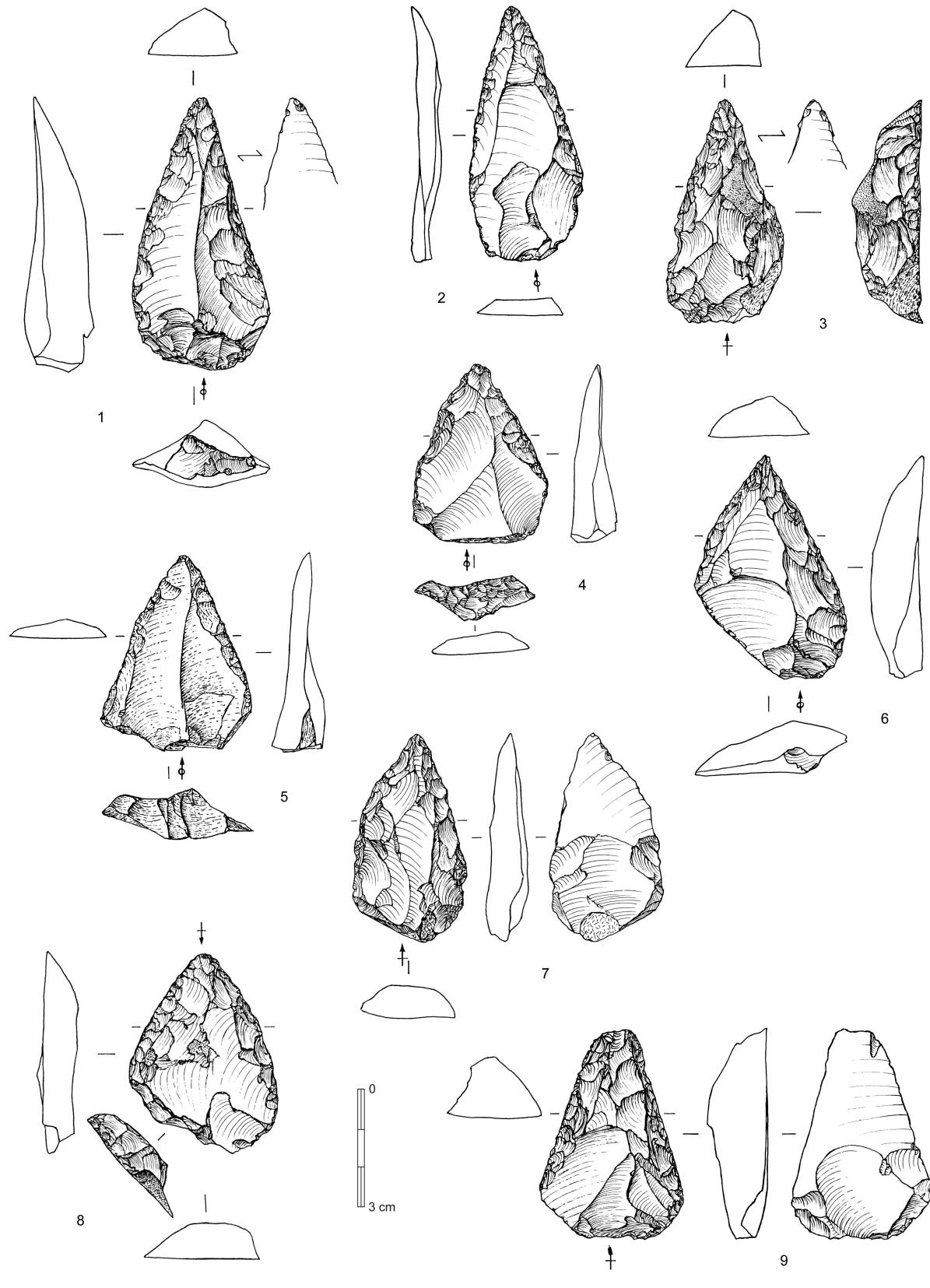
ID no.	No number Curtius 2	No number RMAH-1	No number RMAH-2	No number RMAH-3	No number RMAH-4	No number RMAH-5	No number RMAH-6	No number RMAH-7	No number RMAH-8	No number RMAH-9	No number RMAH-10	No number RMAH-11
<i>Location</i>	Grand Curtius Museum	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH	RMAH
<i>Collection</i>	De Puydt	-	-	-	-	-	-	-	-	-	-	-
<i>Layer</i>	terrasse, "second fauna-bearing level"	-	-	-	"second fauna-bearing level"	-	"third or second fauna-bearing level"	-	-	-	-	-
<i>Type</i>	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point	Mousterian point
<i>Preservation</i>	distal fragment	complete	complete	complete	complete	complete	complete	complete	complete	complete	complete	distal fragment
<i>Axis</i>	axial	offset towards the left	offset towards the left	offset towards the right	offset towards the right	offset towards the right	offset towards the right	offset towards the right	axial	axial	axial	distal fragment
<i>Raw material</i>	flint	flint	flint	flint	flint	flint	flint	flint	flint	flint	flint	flint
<i>Length (mm)</i>	47	60	76	47	62	67	67	81	58	36	48	49
<i>Width (mm)</i>	50	44	44	30	41	29	35	41	33	28	36	33
<i>Thickness (mm)</i>	8	11	12	8	11	13	6	13	11	11	7	6
<i>Length index (L/W)</i>	0.9	1.4	1.7	1.6	1.5	2.3	1.9	2.0	1.8	1.3	1.3	1.5
<i>Thickness index (T/W)</i>	0.2	0.3	0.3	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.2	0.2
<i>Macro-traces interpretation (left)</i>	alterned	undetermined	technological traces	technological traces	undetermined	alterned	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined
<i>Macro-traces interpretation (right)</i>	technological traces	undetermined	technological traces	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces
<i>Macro-traces general interpretation</i>	technological traces	undetermined	technological traces	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces
<i>Macro - Motion type (left)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macro - Motion type (right)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macro - Hardness of the worked material (left)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macro - Hardness of the worked material (right)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Micro-traces interpretation (left)</i>	undetermined	alterned	undetermined	alterned	-	undetermined	alterned	alterned	-	-	-	-
<i>Micro-traces interpretation (right)</i>	undetermined	alterned	undetermined	alterned	-	undetermined	alterned	alterned	-	-	-	-
<i>Micro-traces general interpretation</i>	undetermined	alterned	undetermined	alterned	-	undetermined	alterned	alterned	-	-	-	-
<i>Micro - Motion type (left)</i>	undetermined	-	-	-	-	-	-	-	-	-	-	-
<i>Micro - Motion type (right)</i>	undetermined	-	-	-	-	-	-	-	-	-	-	-
<i>Micro - Hardness of the worked material (left)</i>	undetermined	-	-	-	-	-	-	-	-	-	-	-
<i>Micro - Hardness of the worked material (right)</i>	undetermined	-	-	-	-	-	-	-	-	-	-	-
<i>Traces interpretation (point)</i>	technological traces	technological traces	technological traces	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces	undetermined	technological traces
<i>Macro - Motion type (point)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Macro - Hardness of the worked material (point)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Micro - Motion type (point)</i>	undetermined	-	undetermined	-	-	-	-	-	-	-	-	-
<i>Micro - Hardness of the worked material (point)</i>	undetermined	-	undetermined	-	-	-	-	-	-	-	-	-

* UNRATH G., OWEN L. R., VAN GIJN A., MOSS E. H., PLISSON H. & VAUGHAN P., 1986. An evaluation of micro-wear studies: a multi-analyst approach. In: G. UNRATH & L. R. OWEN (ed.), *Technical aspects of micro-wear studies on stone tools. Early men news, 1. Tübingen, Archeologica Venatoria: 117-176.*

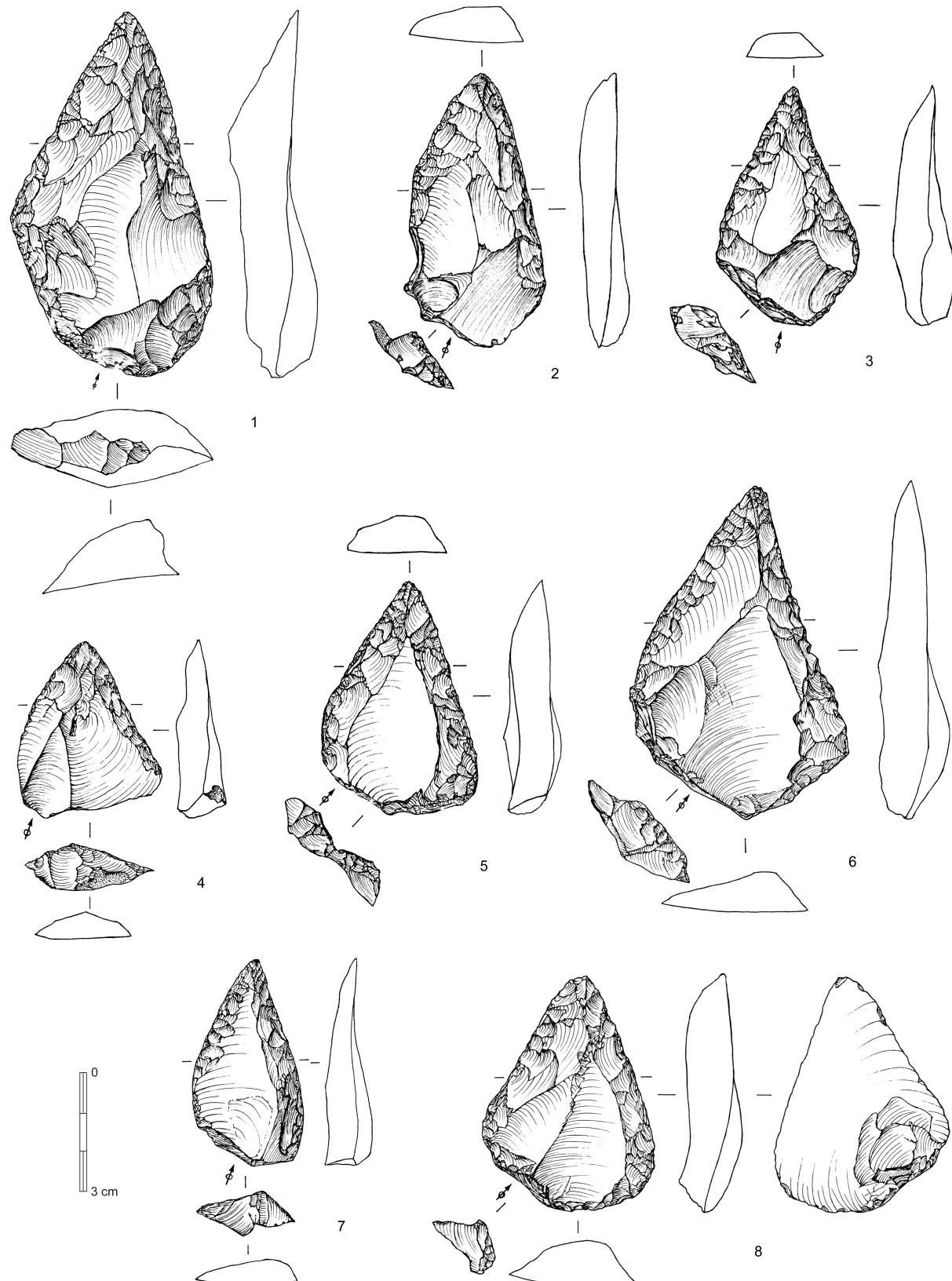
SF1. Mousterian points offset towards the right (1-5) and distal fragments (6-7). 1: MDP 251; 2: MDP 798; 3: MDP 261; 4: no number-7; 5: MDP 799; 6: no number-11; 7: MDP 304. 1-3, 5, 7: Grand Curtius Museum, Liège; 4, 6: RMAH, Brussels. Illustrations by A.-M. Wittek (ADIA)



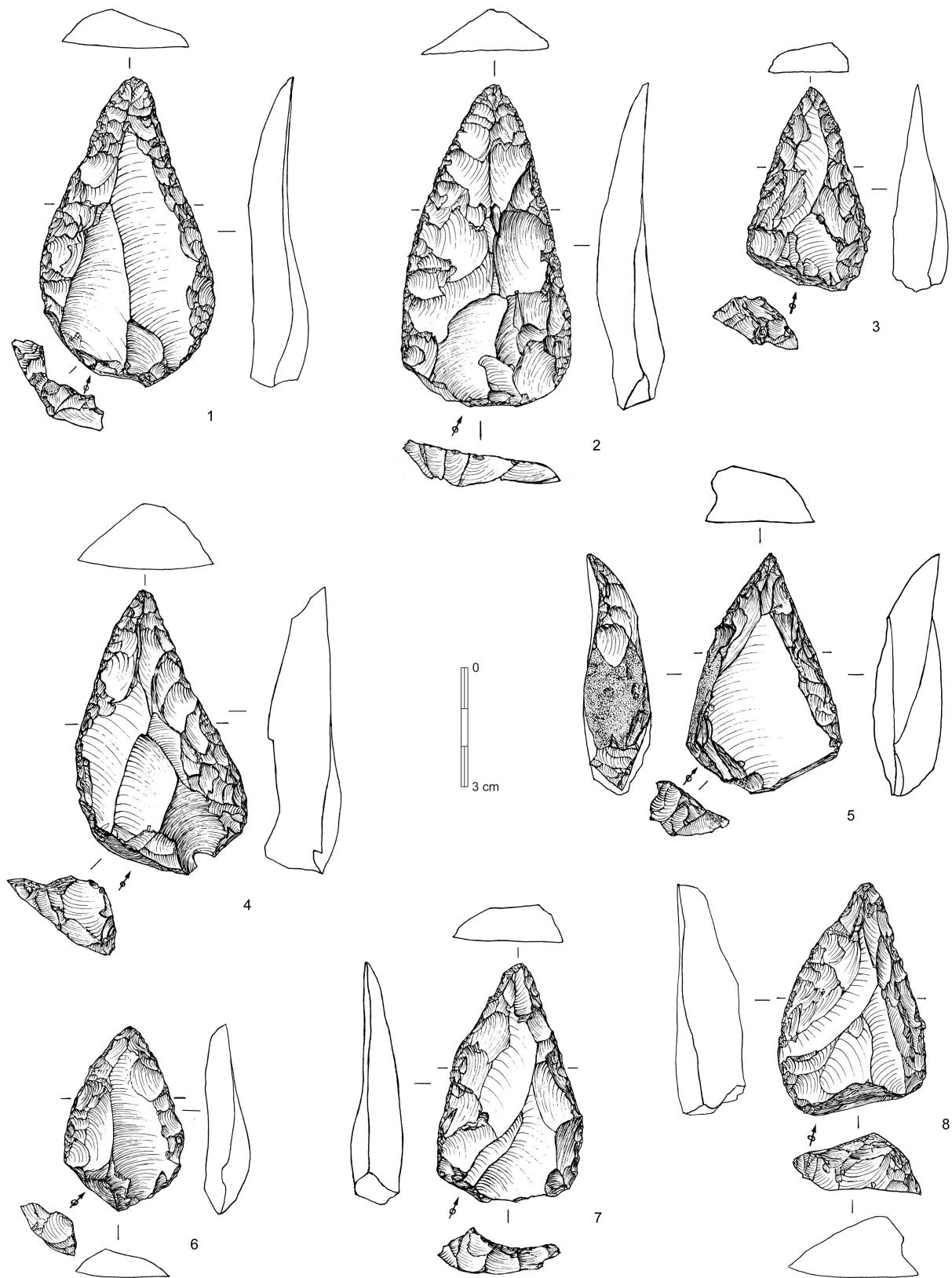
SF2. Axial Mousterian points. 1: MDP 294; 2: MDP 296; 3: MDP 288; 4: MDP 283; 5: MDP 800; 6: no number-8; 7: MDP 289; 8: MDP 290; 9: MDP 266. 1-5, 7-9: Grand Curtius Museum, Liège; 6: RMAH, Brussels. Illustrations by A.-M. Wittek (ADIA)



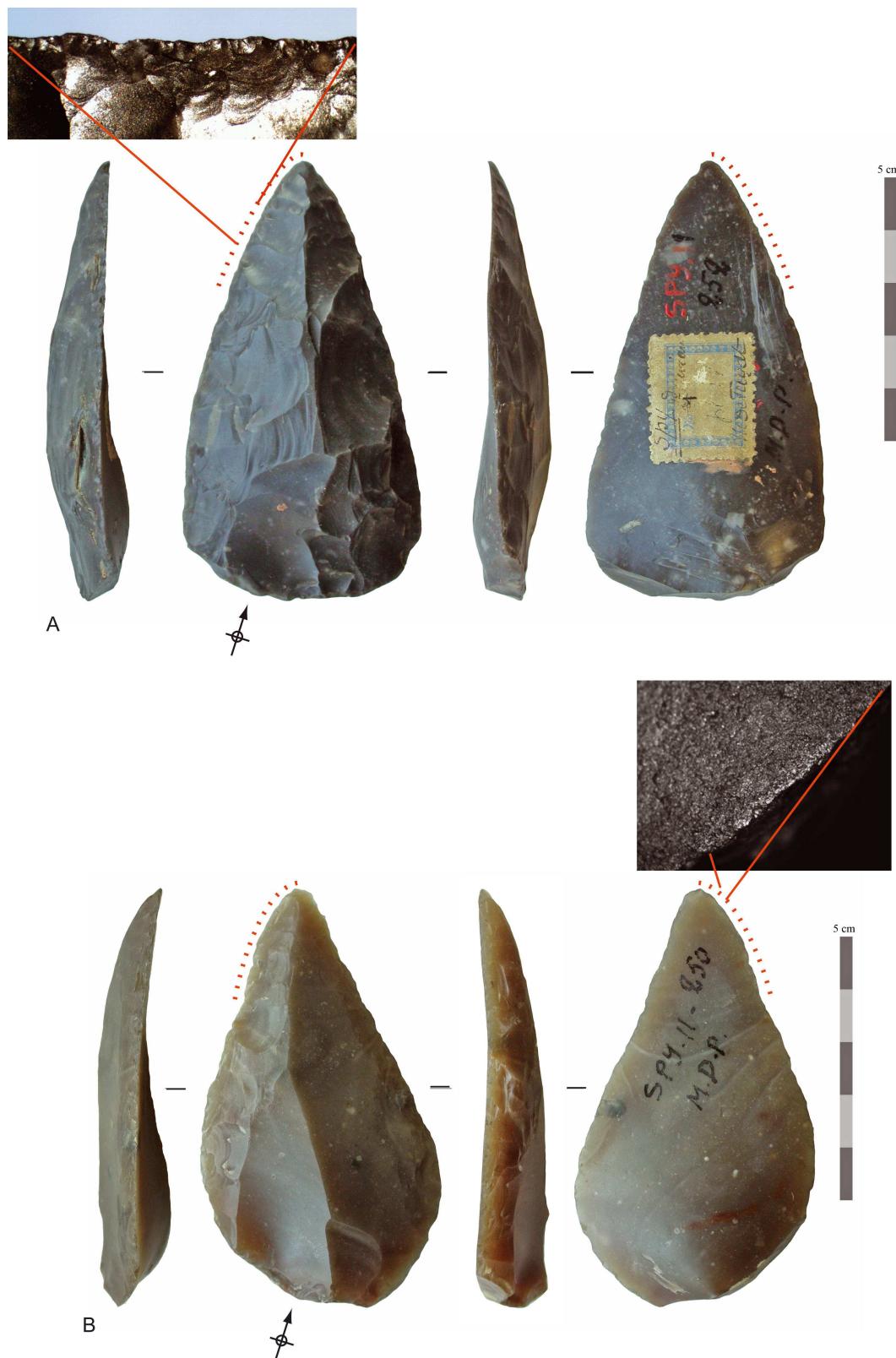
SF3. Mousterian points offset towards the left. 1: MDP 248; 2: MDP 271; 3: MDP 262; 4: MDP 285; 5: MDP 260; 6: MDP 249; 7: MDP 280; 8: no number-1.
1-7: Grand Curtius Museum, Liège; 8: RMAH, Brussels. Illustrations by A.-M. Wittek (ADIA)



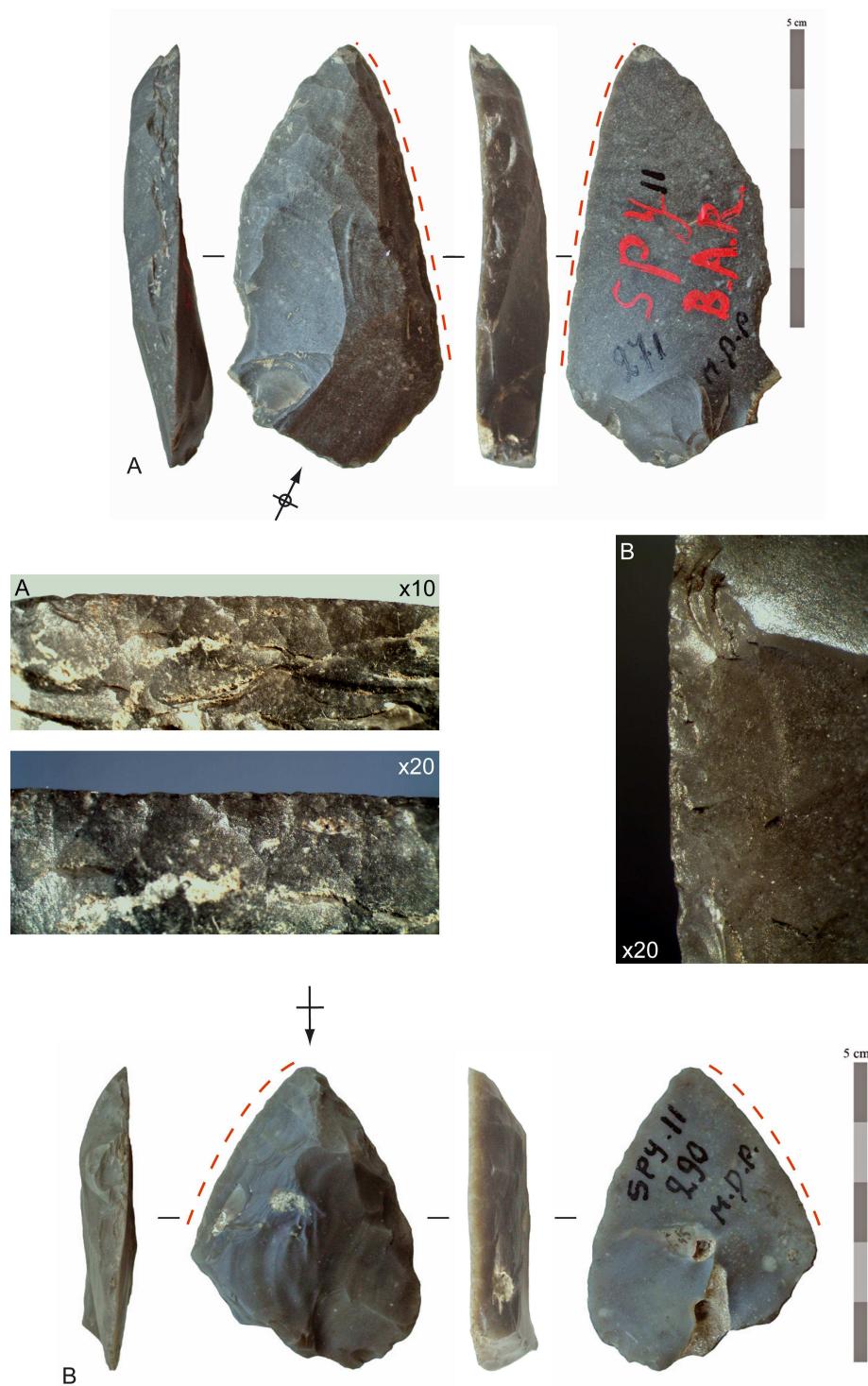
SF4. Mousterian points offset towards the left. 1: MDP 250; 2: MDP 252; 3: MDP 299; 4: MDP 257; 5: MDP 259; 6: no number-3; 7: MDP 268; 8: MDP 265. 1-5, 7-8: Grand Curtius Museum, Liège; 6: RMAH, Brussels. Illustrations by A.-M. Wittek (ADIA)



SF5. Mousterian points used for a transverse action on a medium-hard material, and details of the macroscopic use traces (A) and the microscopic use traces (B: transverse action on wood). Pictures: A. Coudenneau

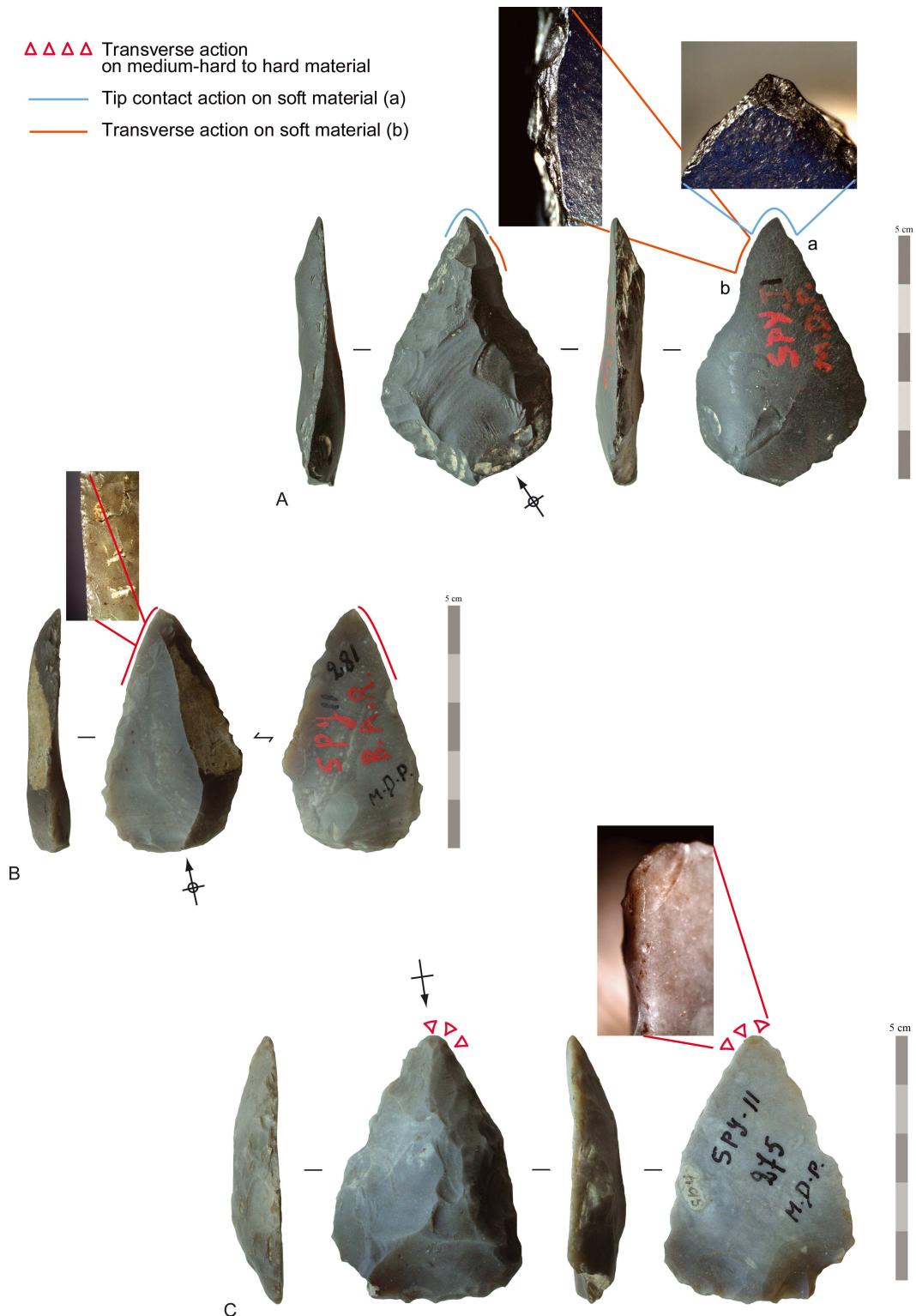


SF6. A & B: Two Mousterian points used in a transverse action on a soft to medium-hard material, and details of the macroscopic use traces. Pictures: A. Coudenneau

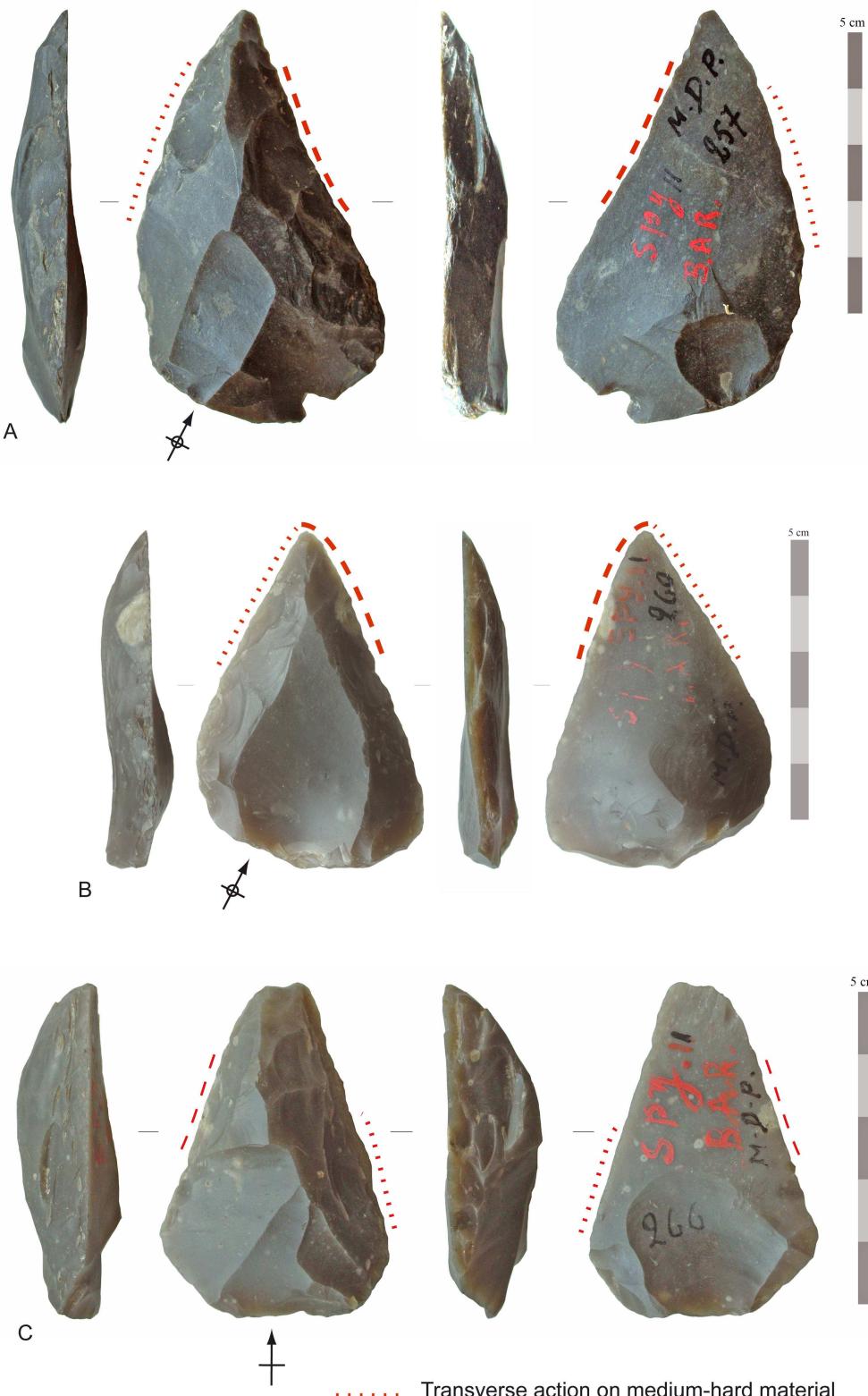


SF7. A: Mousterian point used for both a tip contact action and a transverse action on a soft material, and details of the macroscopic use traces; B: Mousterian point used for a transverse action on a soft material, and detail of the macroscopic use traces; C: Mousterian point used for a transverse action on a medium-hard to hard material, and detail of the macroscopic use traces.

Pictures: A. Coudenneau

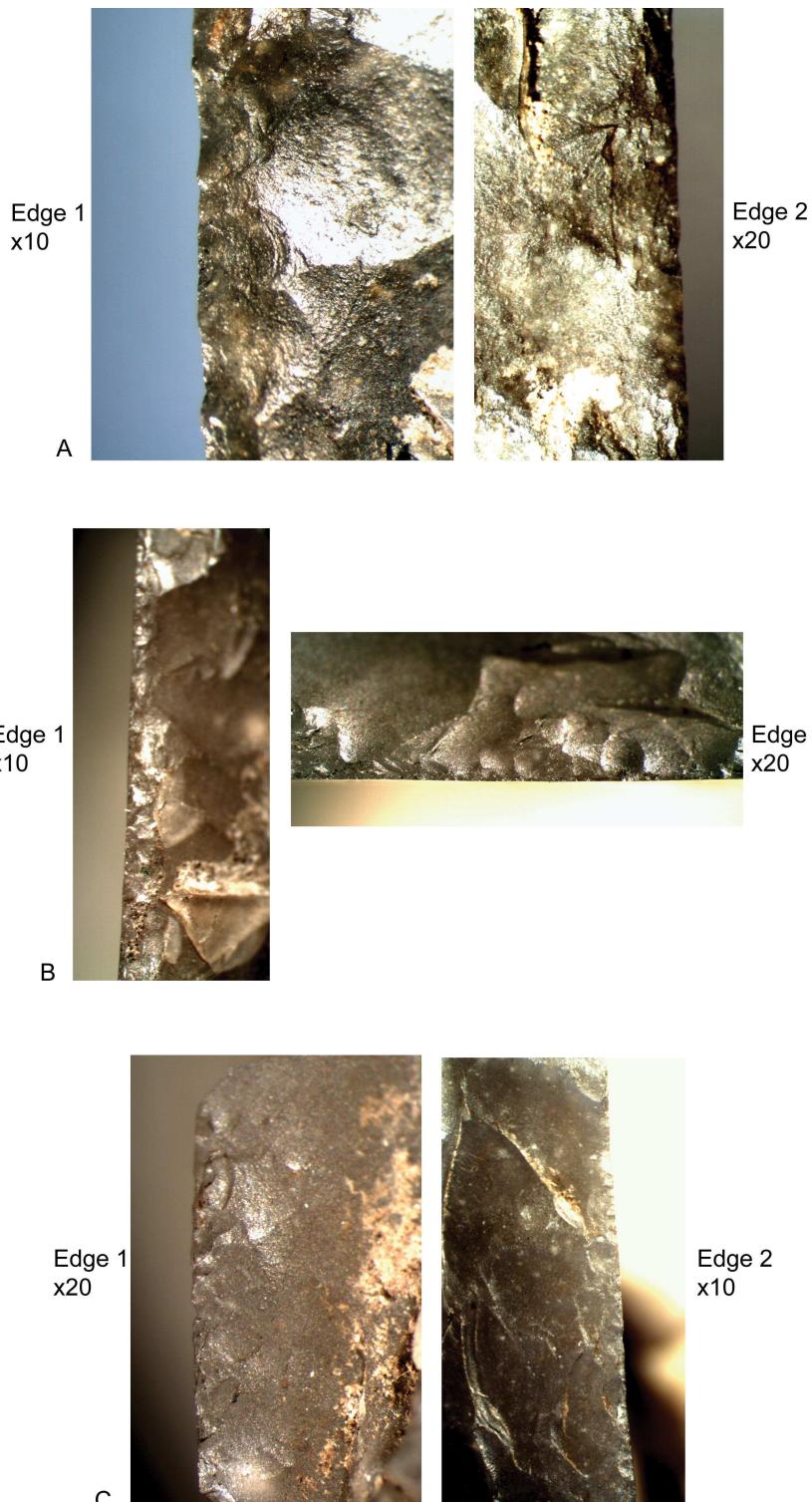


SF8. A to C: Three Mousterian points used for a transverse action on both edges: one on a medium-hard material and one on a soft to medium-hard material.
Pictures: A. Coudenneau

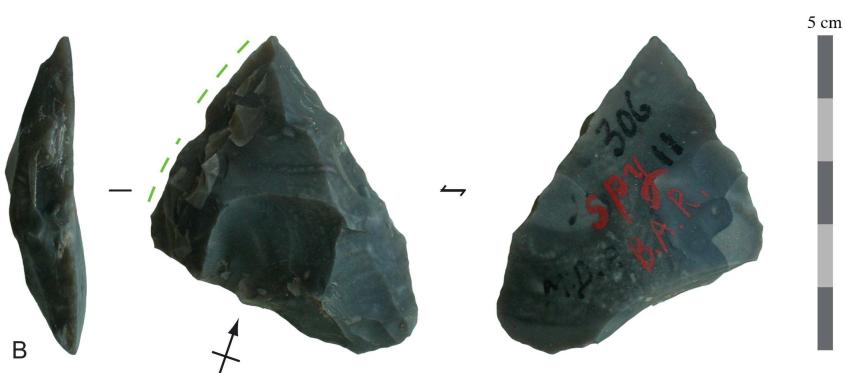
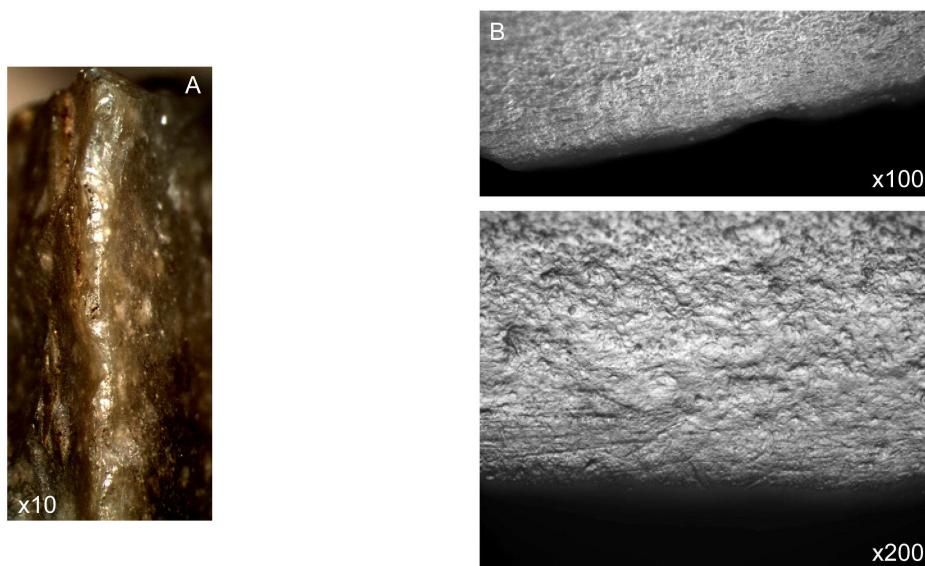


..... Transverse action on medium-hard material
— Transverse action on soft to medium-hard material

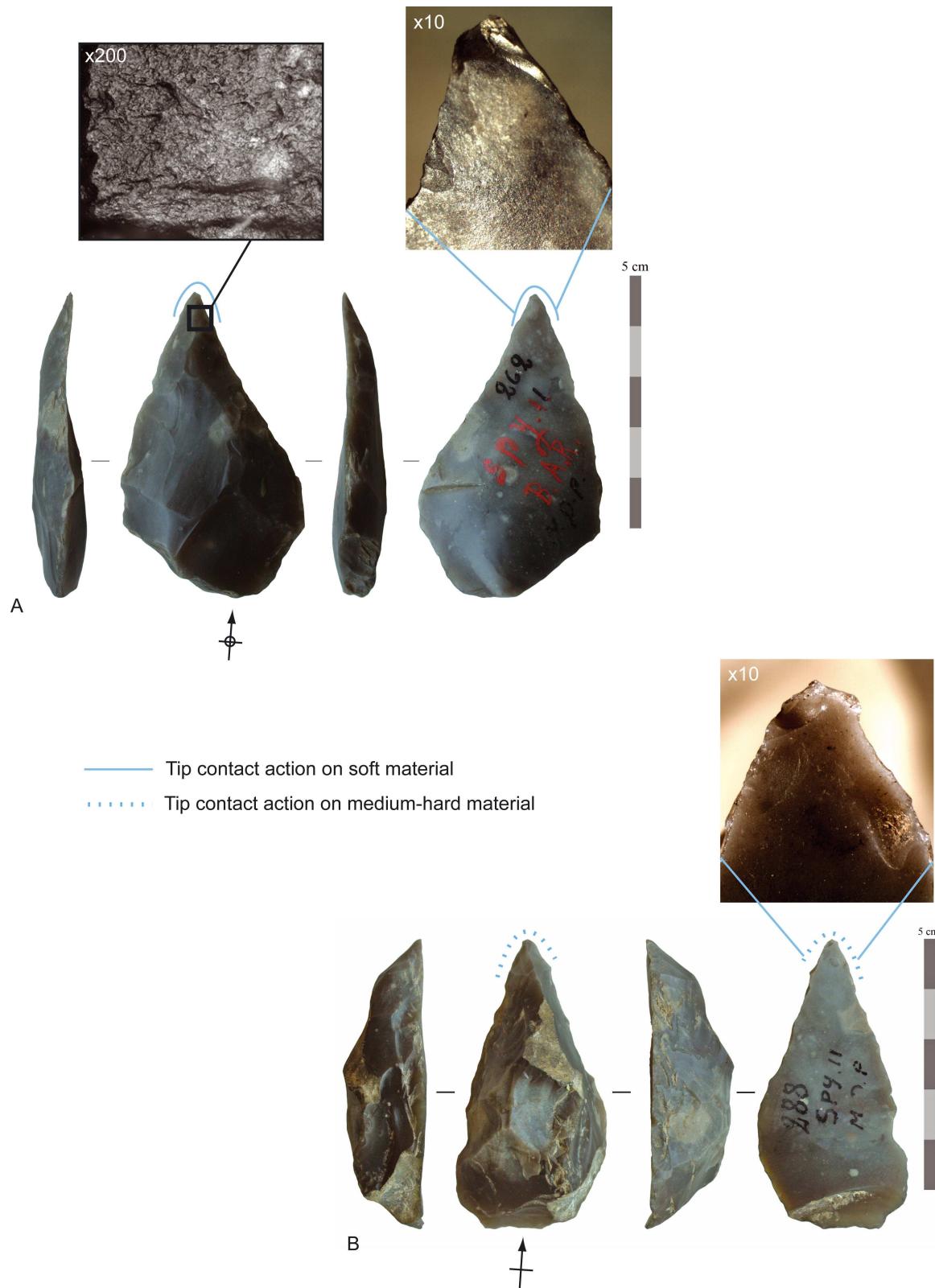
SF9. Macroscopic trace details on pieces from SF8, used for a transverse action on both edges: one on medium-hard material and one on soft to medium-hard material.
A, B and C correspond to the same letters on SF8. Pictures: A. Coudenneau



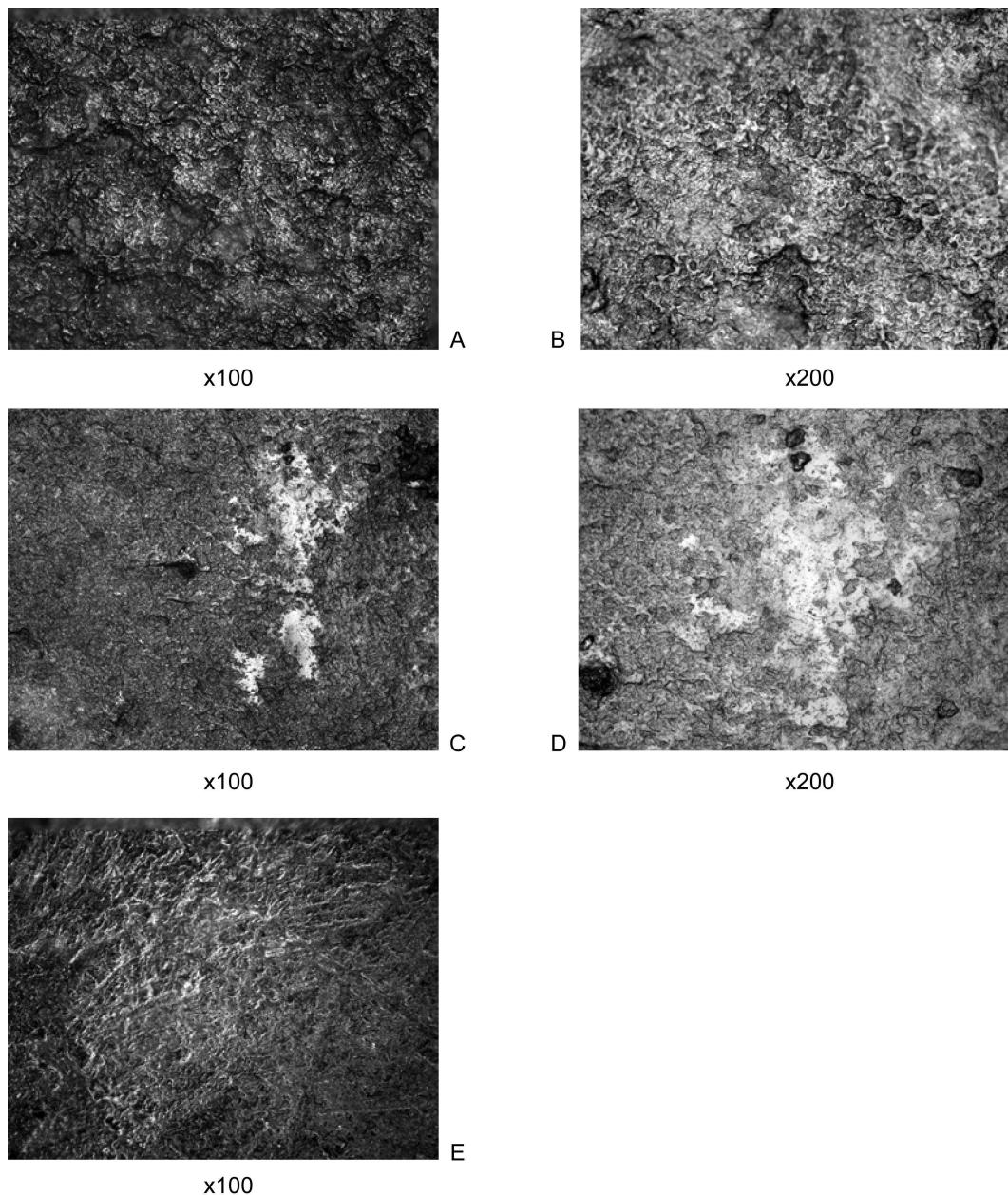
SF10. A & B: Two Mousterian points used for a longitudinal action on a soft to medium-hard material, and details of the macroscopic and microscopic use traces
 (B: x100 and x200, cutting dry skin). Pictures: A. Coudenneau



SF11. A: Mousterian point used for a tip contact action on a soft material, and details of the macroscopic and microscopic use traces. Microscopic traces fit with perforating dry skin; B: Mousterian point used for a tip contact action on medium-hard material, and detail of the macroscopic use traces. Pictures: A. Coudenneau



SF12. Examples of the most common microscopic alterations observed on Mousterian points from Spy. A: light soil sheen; B: soil sheen; C-D: spots of flat polish; E: randomly orientated striations. Pictures: A. Coudenneau



AUTHORS AFFILIATION

Cécile JUNGELS
Anne HAUZEUR
Department of Palaeontology
Section of Anthropology and Prehistory
Royal Belgian Institute of Natural Sciences
29, Vautier Street
1000 Brussels
Belgium
cecilejungels@yahoo.fr
jungels@ramioul.org
ahauzeur@yahoo.fr

Aude COUDENNEAU
LAMPEA, UMR 7269
Université de Provence
Maison Méditerranéenne
des Sciences de l'Homme
5, rue du Château de l'Horloge - BP 647
13094 Aix-en-Provence cedex 2
France
coudenneau@mms.h.univ-aix.fr

Philippe PIRSON
Centre d'Étude des Techniques et de Recherche
Expérimentale en Préhistoire
Les Chercheurs de la Wallonie
128, rue de la Grotte
4400 Flémalle
Belgium
pirson.ph@skynet.be