

TABLES



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TABLE 1:1
 LAPLACE (1964b) CHRONOSTRATIGRAPHIC SCHEME FOR THE SOUTH-EAST
 ITALIAN ANCIENT TARDIGRAVETTIAN

PHASE	SITES
PHASE WITH UNIFACIAL POINTS	
<i>Garganian facies:</i> Characterized by the presence of truncated backed bladelets, Solutrean-type unifacial points, trapezes.	Grotta Paglicci 18-17
PHASE WITH FOLIATE POINTS	
PHASE WITH SHOULDERED POINTS	
a) Typical subphase	
Characterized by high values of shouldered points	
<i>Garganian facies</i> with trapezes.	Grotta Paglicci 16-15
<i>Salentine facies</i> with rhomboids.	Taurisano 23-13 and 12-6
b) Attenuated subphase	
Characterized by decreased values of shouldered points.	
<i>Garganian facies</i> with circular endscrapers.	Grotta Paglicci 14-12
<i>Salentine facies</i> with truncations.	Grotta delle Mura G Grotta delle Cipolliane 4

TABLE 1:2
 LAPLACE (1964b) CHRONOSTRATIGRAPHIC SCHEME FOR THE SOUTH-EAST
 ITALIAN EVOLVED TARDIGRAVETTIAN

FACIES	SITES
GARGANIAN FACIES Characterized by burin/endscraper index >1; simple/retouched burin index >1; long/short endscraper index >1; presence of truncations and <i>à cran</i> bladelets; geometrics including segments, scalene triangles and scalene trapezes.	Grotta Paglicci 9-8
SALENTINE FACIES 1. Phase with truncated backed bladelets. Characterized by burin/endscraper index >1; simple/retouched burin index >1; long/short endscraper index >1; presence of <i>à cran</i> bladelets and circular endscrapers. 2. Phase of transition. Characterized by burin/endscraper index <1; simple/retouched burin index =1 or <1; long/short endscraper index >1; presence of points, circular endscrapers, isosceles trapezes.	Grotta delle Cipolliane 3 Grotta delle Cipolliane 2 ? Grotta Zinzulusa

TABLE 1:3
 LAPLACE (1964b) CHRONOSTRATIGRAPHIC SCHEME FOR THE GARGANIAN
 FACIES OF THE ITALIAN FINAL TARDIGRAVETTIAN

PHASE	SITES
1. PHASE OF TRUNCATED BACKED BLADELETS Characterized by burin/endscraper index <1; simple/retouched burin index >1; long/short endscraper index >1; geometrics including segments, scalene triangles and scalene and isosceles trapezes; increase of circular endscrapers.	Grotta Paglicci 7-4
2. PHASE OF TRUNCATED BACKED BLADELETS AND GEOMETRICS Characterized by burin/endscraper index >1; simple/retouched burin index <1; long/short endscraper index >1; increase of geometrics including segments, scalene and isosceles triangles, scalene trapezes; decrease of circular endscrapers.	Grotta Paglicci 3-1
3. PHASE OF GEOMETRICS AND DENTICULATES Characterized by burin/endscraper index <1; simple/retouched burin index >1; long/short endscraper index >1; marked development of nosed and carinated endscrapers; geometrics include segments, scalene triangles and trapezoidal rectangle.	Grotta Santa Croce

TABLE 1:4
 LAPLACE (1964b) CHRONOSTRATIGRAPHIC SCHEME FOR THE SALENTINE
 FACIES OF THE ITALIAN FINAL TARDIGRAVETTIAN

PHASE	SITES
1. PHASE OF TRUNCATIONS AND TRUNCATED BACKED BLADELETS Characterized by burin/endscraper index <1; simple/retouched burin index <1 or >1; long/short endscraper index >1.	Ugento Bocca Cesira Ugento Pozzo Zecca Taurisano 5-1 Grotta delle Mura F-D
2. PHASE OF CIRCULAR ENDSCRAPERS AND TRUNCATED BACKED BLADELETS a) Typical Characterized by burin/endscraper index <1; simple/retouched burin index <1; long/short endscraper index >1; geometrics include segments and scalene triangles; increase of circular endscrapers. b) Prolonged Characterized by burin/endscraper index =1; simple/retouched burin endscraper index<1; long/short endscraper index >1; increase of circular endscrapers and truncated backed bladelets; geometrics include segments, scalene triangles and trapezoidal rectangle. c) Terminal Characterized by burin/endscraper index <1; simple/retouched burin index >1; long/short endscraper index >1; marked presence of circular endscrapers; decrease of truncated backed bladelets; geometrics include segments, isosceles triangle, trapezoidal rectangle and isosceles trapeze.	Grotta Romanelli E-A Cavallo BIIb-BIIa Grotta del Cavallo BI Grotta Cipolliane 1

TABLE 1:5
 BARTOLOMEI *et al.* (1979) CHRONOSTRATIGRAPHIC SCHEME FOR THE
 SOUTH-EAST ITALIAN ANCIENT EPIGRAVETTIAN

PHASE	SITES
INITIAL EPIGRAVETTIAN Characterized by burin/endscraper index >1; simple/retouched burin index <1; long/short endscraper index >1; presence of a few pointed backed bladelets and truncated backed bladelets.	Grotta Paglicci 18a
PHASE WITH FOLIATE POINTS Characterized by foliate points, plus unifacial points and shouldered points; nosed and carinated endscrapers.	Grotta Paglicci 17 Grotta delle Veneri
PHASE WITH SHOULDERED POINTS a) First subphase Characterized by burin/endscraper index >1; high percentages of shouldered points; backed bladelets; foliates present at Paglicci, absent at Taurisano.	Grotta Paglicci 16-15 Taurisano 23-6
b) Second subphase Characterized by burin/endscraper index <1; decrease of backed bladelets and shouldered points.	Grotta Paglicci 14-12
c) Final subphase Characterized by 'typological impoverishment' and dominance of the substrate (blade scrapers, flake scrapers, denticulates etc.)	Grotta Paglicci 11-10 Cipolliane 4 Grotta delle Mura G

TABLE 1:6
 BARTOLOMEI *et al.* (1979) CHRONOSTRATIGRAPHIC SCHEME FOR THE
 SOUTH-EAST ITALIAN EVOLVED EPIGRAVETTIAN

PHASE	SITES
PHASE ONE Characterized by burin/endscraper index >1; simple/retouched burin index >1; presence of truncated backed bladelets; few shouldered points.	Grotta Cipolliane 3 IX-IV
PHASE TWO Characterized by burin/endscraper index <1; simple/retouched burin index <1; long/short endscraper index >1; marked increase of truncated backed bladelets; presence of geometrics.	Grotta Cipolliane 3 III-I Grotta Paglicci 9-8

TABLE 1:7
 BARTOLOMEI *et al.* (1979) CHRONOSTRATIGRAPHIC SCHEME FOR THE
 SOUTH-EAST ITALIAN FINAL EPIGRAVETTIAN

FACIES	SITES
NORTHERN PUGLIAN FACIES	
a) First phase Characterized by long/short endscraper index >1; increase of truncations and truncated backed bladelets; circular endscrapers and geometrics rare.	Grotta Paglicci 7-4
b) Second phase Characterized by increase of short endscrapers; further development of truncations and truncated backed bladelets; geometrics include triangles and trapezes.	Grotta Paglicci 3-1
CENTRAL/SOUTHERN PUGLIAN FACIES	
1) pre-12,000 BP Characterized by marked increase of truncated backed bladelets; long/short endscraper index <1.	Ugento 17-7 and 7-1 Taurisano 5-1 Grotta delle Mura F-D Grotta delle Cipolliane 2
2) post 12,000 BP Characterized by marked increase of short endscrapers, especially circular endscrapers; decrease of truncated backed bladelets; geometrics include segments and triangles.	Grotta Romanelli E-A Cipolliane 1 Grotta del Cavallo BIIb-BI Grotta di Uluzzo Grotta Santa Croce Grotta delle Mura C

TABLE 1:8
PALMA DI CESNOLA AND BIETTI (1983) CHRONOSTRATIGRAPHIC SCHEME
FOR THE SOUTH-EAST ITALIAN ANCIENT EPIGRAVETTIAN

PHASE	SITES
INITIAL PHASE Characterized by burin/endscraper index >1; substrate important (48%); absence of truncations and shouldered backed bladelets.	Grotta Paglicci 18a Grotta delle Venere A1
PHASE WITH FOLIATE POINTS Characterized by burin/endscraper index <1; simple/retouched burin index >1; long/short endscraper index >1; presence of unifacial and shouldered foliate points.	Grotta Paglicci 17 Grotta delle Venere A
PHASE WITH SHOULDERED POINTS a) Subphase with abundance of shouldered points Characterized by burin/endscraper index >1; simple/retouched burin index >1 to <1; marked increase of backed bladelets with high percentages of shouldered bladelets; decrease of foliate points; abundance of carinated endscrapers. b) Subphase with decrease of shouldered points Characterized by burin/endscraper index <1; simple/retouched burin index <1; decrease of carinated endscrapers and shouldered backed bladelets; geometrics include segments and an isosceles triangle. c) Terminal subphase with shouldered points Characterized by burin/endscraper index >1; substrate very important (50%); shouldered backed bladelets rare.	Grotta Paglicci 16-15 Taurisano 23-6 Grotta Paglicci 14-12z Grotta Paglicci 11-10 Grotta delle Mura G Grotta delle Cipolliane 4

TABLE 1:9
PALMA DI CESNOLA *et al.* (1983) CHRONOSTRATIGRAPHIC SCHEME FOR THE
EVOLVED AND FINAL EPIGRAVETTIAN OF NORTHERN PUGLIA

PHASE	SITES
EVOLVED EPIGRAVETTIAN Characterized byburin/endscraper index <1; simple/retouched burin index <1; long/short endscraper index >1; absence of circular endscrapers; rare presence of shouldered backed bladelets; geometrics include segments, trapezoidal segments and rectangle trapeze.	Grotta Paglicci 9-8
FINAL EPIGRAVETTIAN a) First subphase Characterized by burin/endscraper index <1; simple/retouched burin index <1; long/short endscraper index>1; appearance of prismatic burins, circular endscrapers and bilateral backed bladelets; abundance of backed bladelets and points; geometrics include segments, scalene triangles, and isosceles and rectangle trapezes. b) Second subphase Characterized by burin/endscraper index >1; long/short endscraper index >1; rare presence of circular endscrapers; abundance of truncations and truncated backed bladelets; geometrics include segments, scalene and isosceles triangles, rectangle trapezes; decrease of backed bladelets. c) Third subphase Characterized by burin/endscraper index <1; presence of circular endscrapers; abundance of backed bladelets; absence of geometrics. d) Fourth subphase Characterized by microlithic circular endscrapers; abundance of backed points.	Grotta Paglicci 7-4 Grotta delle Mura F-D Grotta Paglicci 3-2 Grotta Santa Croce Grotta Paglicci 1 Grotta delle Mura C

TABLE 1:10
 PALMA DI CESNOLA *et al.* (1983) CHRONOSTRATIGRAPHIC SCHEME FOR THE
 EVOLVED AND FINAL EPIGRAVETTIAN OF THE SALENTO PENINSULA

PHASE	SITES
EVOLVED EPIGRAVETTIAN	
a) First subphase Characterized by burin/endscraper index >1; simple/retouched burin index <1; long/short endscraper index <1; abundance of backed bladelets and truncated backed bladelets; shouldered bladelets rare; geometrics absent.	Cipolliane 3 IX-IV
b) Second subphase Characterized by burin/endscraper index <1; simple/retouched burin index <1; long/short endscraper index <1; predominance of truncated backed bladelets over backed points; geometrics absent.	Cipolliane 3 III-I
FINAL EPIGRAVETTIAN	
a) Pre-Romanellian Characterized by burin/endscraper index <1; long/short endscraper index <1; abundance of backed points, backed bladelets and truncated backed bladelets.	Ugento Bocca Cesira Ugento Pozzo Zecca Cipolliane 2 Taurisano 5-1
b) Romanellian Characterized by burin/endscraper index <1 to =1; long/short endscraper index <1 with predominance of microlithic circular endscrapers; abundance of truncated backed bladelets; geometrics include segments and triangles.	Grotta Romanelli A-E Grotta delle Veneri
c) Epiromanellian Characterized by burin/endscraper index =1 to <1; geometrics include segments, scalene and isosceles triangles, rectangle trapeze; increase of backed bladelets and backed points.	Cavallo BIIb-I Cipolliane 1 Grotta di Uluzzo Grotta Carlo Cosma Grotta delle Prazziche

TABLE 2:1
HABITATS OF THE PRINCIPAL MOLLUSCAN SPECIES

HARD SUBSTRATE	SPECIES	SUBSTRATE TYPE
Species living in shallow water of the upper tide zone 1-2 metres depth	<i>Patella caerulea</i>	Rock
	<i>Patella ulyssiponensis</i>	Rock
	<i>Patella rustica</i>	Rock
	<i>Monodonta turbinata</i>	Rock
	<i>Monodonta articulata</i>	Rock
Species living in shallow water of the lower tide zone 2-5 metres depth	<i>Murex trunculus</i>	Rock
	<i>Murex erinaceus</i>	Rock
	<i>Murex brandaris</i>	Rock
	<i>Mytilus galloprovincialis</i>	Rock
	<i>Cerithium vulgatum</i>	Rock
	<i>Arca noae</i>	Rock
	<i>Arca barbata</i>	Rock
	<i>Columbella rustica</i>	Rock
SOFT SUBSTRATE	SPECIES	SUBSTRATE TYPE
Species living in shallow water of the upper tide zone 1-2 metres depth	<i>Cyclope neritea</i> *	Sandy/muddy
	<i>Natica hebraea</i>	Sandy
	<i>Nassa reticulata</i>	Sandy
	<i>Nassa variabilis</i>	Sandy
	<i>Pecten jacobaeus</i>	Sandy
Species living in shallow water of the lower tide zone 2-5 metres depth	<i>Venus verrucosa</i>	Sandy/muddy
	<i>Venus gallina</i>	Sandy/muddy
	<i>Cerithium vulgatum</i>	Sandy
	<i>Cardium edule</i> *	Sandy/muddy
	<i>Cardium echinatum</i> *	Sandy/muddy
	<i>Cardium paucicostatum</i> *	Sandy/muddy
Species living at greater depths 5 metres plus	<i>Glycimeris glycimeris</i>	Sandy/muddy
	<i>Glycimeris violascens</i>	Sandy/muddy
	<i>Dentalium vulgare</i>	Coarse sand/shingle
	<i>Dentalium entalis</i>	Coarse sand/shingle

* favours low salinity

TABLE 2:2
LATE QUATERNARY CHRONOSTRATIGRAPHIC SCHEME

Oxygen isotope stage	Alpine glacial divisions	General glacial divisions	Pollen zone	Date k.BP	Vegetation	Climate	Sea-level
1	Holocene	Postglacial	Preboreal	10-9	Mixed deciduous woodland	Mild and humid	Rise at 17m/kyr to -37 metres
2	Würm IV	"Younger Dryas"	<i>Dryas III</i>	11-10	<i>Artemisia</i> steppe	Cold, arid	Sea-level halt
				12-11	Predominance of oak and poplar	Mild and humid	Rise at 16m/kyr to -54 metres
				12.4-12			
				13-12.4	Decline in steppe vegetation. Oak and poplar	Milder and more humid	
				14-13			
				14.5-14			
				15-14.5			
				"Last Glacial Maximum"	Angles	15.5-15	<i>Artemisia</i> steppe plus <i>Ephedra</i> , <i>Chenopodiaceae</i>
<i>Dryas Ia</i>	16.5-15.5						
Lascaux	18-16.5						

Cold oscillations are italicized.

TABLE 3:1
REGIONAL SEDIMENT CORRELATION SCHEME

CLIMATE	kyr	GARGANO	SALENTO	MURGE
	9			
MILD			Cavallo BIb-BI Carlo Cosma A Uluzzo I-C Prazziche?	
_____	10			
COLD		Paglicci 1 Paglicci 2	Romanelli E-A	
_____	11			
		Paglicci 3 Paglicci 4	Cipolliane 1? Parabita C?	Mura C?
MILD	12			
(cold)				S.Croce?
(mild)				
_____	13			
(cold)		Paglicci 5	Ugento	Mura F-D?
MILD	14	Paglicci 6		
(cold)		Paglicci 7	Cipolliane 2	
_____	15			
(mild)		Paglicci 8 Paglicci 9 Paglicci 10	Cipolliane 3 Taurisano 24-1	
	16			
COLD		Paglicci 12 Paglicci 13 Paglicci 14	Cipolliane 4	
	17			
(mild)		Paglicci 15 Paglicci 16		
	18	Paglicci 17	Parabita A?	Mura F?

TABLE 3:2
RADIOCARBON DATES FROM LATE PALAEOOLITHIC SITES IN SOUTH-EAST
ITALY

Site	Sample no.	Years BP	Sample type
Taurisano 9-6	R-1062	16,050±160	Burnt bone
Taurisano 22-18	R-1064	16,000±150	Burnt bone
Taurisano 12-10	R-1063	15,600±120	Burnt bone
Taurisano 5-1	R-1061	15,500±150	Burnt bone
Paglicci 8	F-66	15,460±220	Charcoal
Paglicci 10	F-68	15,320±250	Charcoal
Cipolliane 3III	R-355	15,270±300	Burnt bone
Paglicci 9	F-67	15,270±220	Charcoal
Cipolliane 3 VI-VII	R-356	15,200±100	Burnt bone
Cipolliane 3I-II	R-353	15,000±100	Burnt bone
Paglicci 7	F-65	14,820±210	Charcoal
Paglicci 6a	F-64	14,270±230	Charcoal
Ugento Pozzo Zecca I-II	R-271	14,170±170	Burnt bone
Ugento Pozzo Zecca III-IV	R-272	13,870±110	Burnt bone
Paglicci 7c	Ly-1628	13,720±870	Bone
Paglicci 5bc	F-96	13,590±200	Charcoal
Paglicci 4	F-95	11,950±190	Charcoal
Romanelli C	R-56	11,930±520	Humic acid
Romanelli A	R-58	11,800±600	Charcoal
Paglicci 3a	F-94	11,440±180	Charcoal
Scaloria TR8/L9	LJ-4979	11,040±190	Charcoal
Scaloria TR8/L8	LJ-4978	10,790±210	Charcoal
Romanelli D	GrN-2055	10,640±100	Charcoal
Romanelli C1	GrN-2153	10,390±80	Charcoal
Romanelli A3	GrN-2305	10,320±130	Charcoal
Romanelli A2	GrN-2056	9,880±100	Charcoal
Romanelli C2	GrN-2154	9,790±80	Charcoal
Scaloria TR8/L3	LJ-4982	9,560±140	Charcoal
Romanelli A	R-54	9,050±100	Humic acid
Scaloria TR8/L4	LJ-5098	9,030±120	Charcoal

TABLE 4:1
HIERARCHICAL STRUCTURE OF THE THE LAPLACE *TYPLOGIE*
ANALYTIQUE

FAMILY	GROUP	CLASS	PRIMARY TYPE
BURINS	Burin	Simple On break Retouched	B1-9
ENDSCRAPERS	Endscraper	Convex fronted Nosed Carinated	G1-9
DIFFERENTIATED ABRUPT RETOUCHED TOOLS	Truncations	Marginal Invasive	T1-3
	Perforators	On truncation On backed bladelet	Bc1-2
	Backed points	Marginal Invasive Shouldered	PD1-7
	Backed blades	Marginal Invasive Shouldered	LD1-6
	Backed truncations	Distal truncated With trihedral point With truncated base	DT1-9
	Geometrics	Segment Triangle Trapeze	Gm1-8
FOLIATES	Foliates	Flat faced Bifacial Flat with tang Geometric Scrapers	F1-10
SUBSTRATE	Points	Marginal Invasive Carinated	P1-5
	Blade scrapers	Marginal Invasive Carinated	L1-3
	Flake scrapers	Marginal Invasive Carinated	R1-5
	Abrupts	Marginal Invasive	A1-2
	Denticulates	Thin Carinated	D1-8

TABLE 5:1
CIPOLLIANE: TOOL CLASSES FROM THE 1962 EXCAVATION (PALMA DI CESNOLA)

Class	4		3		2		1	
	n.	%	n.	%	n.	%	n.	%
Burins (BUR)	7	25	100	20	7	8	40	12
Endscrapers (END)	3	11	80	16	20	23	115	34
Truncations (TRU)	-	-	5	1	-	-	4	1
Perforators (BEC)	-	-	-	-	1	1	-	-
Backed bladelets (BBL)	15	54	115	23	40	47	80	24
Geometrics (GEO)	1	4	-	-	-	-	-	-
Points (POI)	-	-	30	6	7	8	20	6
Blade-scrappers (B-SCR)	2	7	70	14	6	7	30	9
Flake-scrappers (F-SCR)	-	-	75	15	4	5	20	6
Denticulate (DEN)	-	-	15	3	1	1	26	8
Total	28		490		86		335	

TABLE 5:2
CIPOLLIANE: TOOL CLASSES FROM THE 1962 EXCAVATION (LAPLACE)

Class	4		3		2		1	
	n.	%	n.	%	n.	%	n.	%
Burins (BUR)	3	13	82	17	5	5	30	8
Endscrapers (END)	1	4	75	16	14	15	112	30
Truncations (TRU)	-	-	5	1	1	1	4	1
Perforators (BEC)	-	-	2	-	2	2	5	1
Backed bladelets (BBL)	15	65	131	28	40	42	102	28
Geometrics (GEO)	-	-	-	-	-	-	1	-
Points (POI)	1	4	19	4	7	7	13	4
Blade-scrappers (B-SCR)	3	13	93	20	16	17	51	14
Flake-scrappers (F-SCR)	-	-	42	9	5	5	29	8
Abrupts (ABR)	-	-	4	1	-	-	2	1
Denticulates (DEN)	-	-	13	3	1	1	12	3
Composites (COM)	-	-	6	1	5	5	6	2
Total	23		482		96		367	

TABLE 5:3
 CIPOLLIANE: TOOL CLASSES FROM THE 1964 EXCAVATION (GAMBASSINI)

Class	4		3		2		1	
	n.	%	n.	%	n.	%	n.	%
Burins (BUR)	23	11	95	20	1	2	13	8
Endscrapers (END)	7	3	75	16	4	9	21	13
Truncations (TRU)	3	1	7	2	2	5	3	2
Perforators (BEC)	2	1	12	2	1	2	4	3
Backed bladelets (BBL)	70	32	200	41	18	41	49	31
Geometrics (GEO)	-	-	-	-	-	-	-	-
Points (POI)	4	2	2	-	4	9	5	3
Blade-scrapers (B-SCR)	42	19	15	3	2	5	25	16
Flake-scrapers (F-SCR)	33	15	11	2	4	9	18	11
Abrupts (ABR)	8	4	4	1	1	2	4	3
Denticulates (DEN)	21	10	45	9	3	7	15	9
Composites (COM)	-	-	15	3	3	7	-	-
Foliate (FOL)	3	1	2	-	1	2	2	1
Total	216		483		44		159	

TABLE 5:4
CIPOLLIANE: ABSOLUTE FREQUENCIES OF THE TOOL CLASSES

	BUR	END	BBL	TRU	NOT	DEN	LN	POI	BEC	COM	Total	MN BBL	Corr. Total
1	13	21	49	3	9	6	47	7	4		159	37	147
2	I												
	II												
	III			2		1	2				5	2	5
	IV			2							2	2	2
	V			2	1			1		1	5	2	5
	VI	1	2	2			1	1			7	2	7
	VII			1	1			1			3	1	3
	VIII		2	7		2	4	2	1	1	19	6	18
3	I	5	9	32		6	1	2		1	56	28	52
	II	10	13	39	2	6		6	1	3	82	35	78
	III	9	9	27	1	6		2		3	58	24	55
	IV	12	9	14	3	2	2			4	46	13	45
	V	16	13	11		2	3			1	48	11	48
	VI	20	9	30		3	7	1		1	75	27	72
	VII	16	13	34		5	1	3		2	74	31	71
	VIII		1	3	1			6	1		12	3	12
	IX	1		3				1		1	7	3	7
4	I	11	2	18	1	4	2	23	2		63	18	63
	II	4	1	17	2	6	2	14	3	1	50	15	48
	III	2		15			2	9	1		29	14	28
	IV	2	1	8			2	13			25	8	25
	V	1		6			1	5	1		14	6	14
	VI						1	1			1		1
	VII												
	VIII												
	IX			1				1			2	1	2
	X							2			2		2
	XI			1		1	3				5	1	5
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												
TOTAL	123	105	324	15	51	30	146	21	17	17	849	290	815

TABLE 5:5
CIPOLLIANE: RELATIVE FREQUENCIES OF THE TOOL CLASSES

	BUR	END	MN BBL	TRU	NOT	DEN	LIN	POI	BEC	COM
1	9	14	25	2	6	4	32	5	3	
I										
II										
III			40			20	40			
2 IV			100							
V			40	20				20		20
VI	14	29	29				14	14		
VII			33	33				33		
VIII		11	33		11		22	11	6	6
I	10	17	54		11	2	4			2
II	13	17	45	2	8		8	1	4	2
III	16	16	44	2	11		4		5	2
IV	27	20	19	7	4	4				9
3 V	33	27	23		4	6			2	4
VI	28	13	38		4	10	1		1	5
VII	23	18	44		7	1	4		3	
VIII		8	25	8			50	8		
IX	14		43				14		14	14
I	17	3	28	2	6	3	35	6		
II	8	2	31	4	13	4	29	6	2	
III	7		50			7	32	4		
IV	8	4	32			4	52			
V	7		43			7	36	7		
VI							100			
VII										
VIII										
IX			50				50			
4 X							100			
XI			20			20	60			
XII										
XIII										
XIV										
XV										
XVI										
XVII										
XVIII										
XIX										

TABLE 5:6
ATTRIBUTES OF THE BACKED BLADELETS

A. SIZE OF THE BLANK			
A1-small	A2-medium	A3-large	
B. CONDITION OF THE BLANK			
B1-whole	B2-distal fragment	B3-medial fragment	B4-proximal fragment
C. LATERALIZATION OF THE BACKED EDGE(S)			
C1-sinister	C2-dexter	C3-bilateral	
D. MORPHOLOGY OF THE BACKED EDGE(S)			
D1-rectilinear	D2-curved	D3-shouldered	
E. DIRECTION OF THE BACKING RETOUCH			
E1-direct	E2-inverse	E3-alternate	E4-bipolar
F. AMPLITUDE OF THE BACKING RETOUCH			
F1-marginal	F2-invasive		
G. MORPHOLOGY OF THE DISTAL END			
G1-pointed	G2-obtuse	G3-right-angle truncated	
G4-oblique truncated	G5- <i>piquant trièdre</i>	G6-broken	
H. MORPHOLOGY OF THE PROXIMAL END			
H1-pointed	H2-obtuse	H3-right-angle truncated	
H4-oblique truncated	H5- <i>piquant trièdre</i>	H6-broken	
I. DIRECTION OF THE TRUNCATION RETOUCH			
I1-direct	I2-inverse		
J. AMPLITUDE OF THE PROXIMAL VENTRAL RETOUCH			
J1-invasive	J2-marginal		
K. AMPLITUDE OF THE DISTAL VENTRAL RETOUCH			
K1-invasive	K2-marginal		
L. EXTENT OF THE BACKING RETOUCH			
L1-partial	L2-continuous		
M. EXTENT AND LOCATION OF THE SECONDARY LATERAL RETOUCH			
M1-absent	M2-continuous	M3-partial proximal	M4-partial distal
N. ANGLE OF THE SECONDARY LATERAL RETOUCH			
N1-simple	N2-abrupt	N3-flat	
O. AMPLITUDE OF THE SECONDARY LATERAL RETOUCH			
O1-marginal	O2-invasive		
P. DIRECTION OF THE SECONDARY LATERAL RETOUCH			
P1-direct	P2-inverse	P3-alternate	P4-bifacial

TABLE 5:7
 CIPOLLIANE: ATTRIBUTES OF THE BACKED BLADELETS (A-D)
 (see Table 5:6 for key)

	A			B				C			D		
	1	2	3	1	2	3	4	1	2	3	1	2	3
1	37	12		16	10	6	17	22	26	1	45	2	2
2	I												
	II												
	III	2		1			1	1		1	2		
	IV	2		1			1		2		1	1	
	V	2		1			1	2			1	1	
	VI	2		1	1			2			1	1	
	VII	1		1				1			1		
	VIII	5	2	1	1	2	3	3	3	1	6		1
3	I	29	3	19	5	4	4	16	12	4	28	3	1
	II	39		22	5	7	5	24	15		38	1	
	III	23	4	14	5	2	6	9	18		25	2	
	IV	10	4	9	2	1	2	6	7	1	12		2
	V	7	4	8	3			10	1		9	1	1
	VI	26	4	22	1	4	3	9	18	3	27	3	
	VII	26	8	19	3	3	9	13	19	2	29	2	3
	VIII	1	2	2		1		1	2		3		
	IX	2	1				3	1	2		2	1	
4	I	15	3	12	1	1	4	10	7	1	16	2	
	II	14	3	9	2	2	4	7	10		13	1	3
	III	9	6	7	1	2	5	7	8		12	3	
	IV	8		4		1	3	3	4	1	5	1	2
	V	5	1	2	2	2		2	4		5		1
	VI												
	VII												
	VIII												
	IX	1				1			1		1		
	X												
	XI	1		1				1			1		
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												

TABLE 5:8
 CIPOLLIANE: ATTRIBUTES OF THE BACKED BLADELETS (E-G)
 (see Table 5:6 for key)

	E				F		G					
	1	2	3	4	1	2	1	2	3	4	5	6
1	42			7	2	47	5	20	1			23
2	I											
	II											
	III	2			2			1				1
	IV	2				2		1				1
	V	1		1		2		1				1
	VI	2				2	1	1				
	VII	1				1		1				
	VIII	7			1	6		2				5
3	I	27		2	3	10	22	4	19	1		8
	II	33	2	1	3	4	35	2	20	3	2	12
	III	24	1		2	3	24	2	11	5	1	8
	IV	9			5		14	5	5	1		3
	V	9			2	3	8		10	1		
	VI	28			2	1	29	6	15	2		7
	VII	30	1		3	3	31	4	13	3	2	12
	VIII	3				1	2		2			1
	IX	2	1				3					3
4	I	17			1	3	15	4	8	1		5
	II	15			2	1	16	6	5			6
	III	13			2	1	14	2	6			7
	IV	7			1	1	7		4			4
	V	5			1	1	5		4			2
	VI											
	VII											
	VIII											
	IX	1					1					1
	X											
	XI	1				1			1			
	XII											
	XIII											
	XIV											
	XV											
	XVI											
	XVII											
	XVIII											
	XIX											

TABLE 5:9
CIPOLLIANE: ATTRIBUTES OF THE BACKED BLADELETS (H-L)
(see Table 5:6 for key)

	H						I		J		K		L	
	1	2	3	4	5	6	1	2	1	2	1	2	1	2
1	3	26	3	1		16	4	1	4		1			49
2	I													
	II													
	III													2
	IV	1	1							2				2
	V	1	1						1					2
	VI		1			1								2
	VII		1											1
	VIII		3	1		3	1		1	1				7
3	I	1	16	5	1	9	6	1		1		1		32
	II		21	4	2	12	10	1	2	1	1	1	2	37
	III		16	4		7	9	2	2	1	1		1	26
	IV		10		1	3	1	1	2					14
	V	1	7			3	1							11
	VI	2	22			1	2		1		2		2	28
	VII	2	24	2		6	6	1	2	2				34
	VIII		2		1	1							1	2
	IX	1	2										1	2
4	I	1	12	3		2	1	3		2			2	16
	II		13			4				2				17
	III	3	9			3			3			1	2	13
	IV		7			1								8
	V		2			4					1			6
	VI													
	VII													
	VIII													
	IX					1								1
	X													
	XI		1					1						1
	XII													
	XIII													
	XIV													
	XV													
	XVI													
	XVII													
	XVIII													
	XIX													

TABLE 5:10
 CIPOLLIANE: ATTRIBUTES OF THE BACKED BLADELETS (M-P)
 (see Table 5:6 for key)

	M				N			O		P			
	1	2	3	4	1	2	3	1	2	1	2	3	4
1	34	7	6	2	14	1		6	9	9	6		
2	I												
	II												
	III	2											
	IV	1		1		1		1		1			
	V	2											
	VI		1	1	1	1		1	1	2			
	VII	1											
	VIII	4	3		2		1	2	1	1	2		
3	I	26	3	2	1	4	1	1	3	3	4	1	1
	II	30	6	1	2	6	2	1	7	2	6	2	1
	III	21	2	1	3	3	2	1	6		5	1	
	IV	3	4	2	5	7	3	1	7	4	10		1
	V	7	1	2	1	2	1	1	2	2	2	2	
	VI	23	2		5	6		1	3	4	5	1	1
	VII	26	4	3	1	6	2		5	3	6	2	
	VIII	2	1			1			1		1		
	IX	2	1			1			1		1		
4	I	13	2	1	2	4		1	3	2	5		
	II	10	6	1		7			6	1	6	1	
	III	10	1	3	1	3	2		4	1	4	1	
	IV	7	1			1				1	1		
	V	4	2			2			2		2		
	VI												
	VII												
	VIII												
	IX	1											
	X												
	XI	1											
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												

TABLE 5:11
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET FRAGMENT SIZE
AND FRAGMENT TYPE

	<2.5 cm			>2.5 cm		
	Proximal	Medial	Distal	Proximal	Medial	Distal
1	15	6	4	2	-	6
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	1	-	-	-	-	-
2IV	1	-	-	-	-	-
2V	1	-	-	-	-	-
2VI	-	-	1	-	-	-
2VII	-	-	-	-	-	-
2VIII	3	2	1	-	-	-
3I	4	4	5	-	-	-
3II	4	6	5	1	1	-
3III	6	2	3	-	-	2
3IV	1	-	2	1	1	-
3V	-	-	1	-	-	2
3VI	2	3	-	1	1	1
3VII	6	3	2	3	-	1
3VIII	-	-	-	-	1	-
3IX	2	-	-	1	-	-
4I	3	-	1	1	1	-
4II	4	1	2	-	1	-
4III	2	2	1	3	-	-
4IV	3	1	-	-	-	-
4V	-	2	2	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	1	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	58	33	30	13	6	12

TABLE 5:12
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET TIP LOCATION
AND TIP MORPHOLOGY

	Proximal		Distal		Double	
	Pointed	Truncated	Pointed	Truncated	Pointed	Truncated
1	3	4	5	1	-	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	1	-	-	-	-	-
2V	1	-	-	-	-	-
2VI	-	-	1	-	-	-
2VII	-	-	-	-	-	-
2VIII	-	1	-	-	-	-
3I	1	5	4	-	-	1
3II	-	5	2	4	-	1
3III	-	3	2	5	-	1
3IV	-	1	5	1	-	-
3V	1	-	-	1	-	-
3VI	2	1	6	2	1	-
3VII	2	1	4	4	1	1
3VIII	-	-	-	-	-	-
3IX	1	-	-	-	-	-
4I	1	3	4	1	-	-
4II	-	-	6	-	-	-
4III	3	-	2	-	-	-
4IV	-	-	-	-	-	-
4V	-	-	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	1	-	-
Total	16	24	41	20	2	4

TABLE 5:13
CIPOLLIANE: BACKED BLADELET TIP MORHOLOGY

15

	Pointed		Obtuse		Truncated	
	n.	%	n.	%	n.	%
1	8	26	18	58	5	16
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	1	100	-	-
2IV	1	50	1	50	-	-
2V	1	100	-	-	-	-
2VI	1	50	1	50	-	-
2VII	-	-	1	100	-	-
2VIII	-	-	2	67	1	33
3I	5	19	16	59	6	22
3II	2	7	18	60	10	33
3III	2	9	10	48	9	43
3IV	5	42	5	42	2	17
3V	1	9	9	82	1	9
3VI	9	39	11	48	3	13
3VII	7	30	10	43	6	26
3VIII	-	-	2	100	-	-
3IX	1	100	-	-	-	-
4I	5	36	5	36	4	28
4II	6	55	5	45	-	-
4III	5	56	4	44	-	-
4IV	-	-	4	100	-	-
4V	-	-	4	100	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	1	100
Total	59	25	127	54	48	21

TABLE 5:14
CIPOLLIANE: COVARIATION BETWEEN WHOLE BACKED BLADELET TIP
MORPHOLOGY AND SIZE

	Pointed		Obtuse		Truncated	
	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm
1	2	2	8	2	1	1
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	1	-	-	-
2IV	-	-	1	-	-	-
2V	1	-	-	-	-	-
2VI	-	-	1	-	-	-
2VII	-	-	1	-	-	-
2VIII	-	-	-	1	-	-
3I	2	2	10	1	4	-
3II	2	-	14	-	6	-
3III	-	2	8	-	4	-
3IV	4	-	3	1	-	1
3V	-	1	6	1	-	-
3VI	7	1	11	-	3	-
3VII	3	3	10	-	2	1
3VIII	-	-	1	1	-	-
3IX	-	-	-	-	-	-
4I	5	-	4	-	2	1
4II	4	1	3	1	-	-
4III	1	2	3	1	-	-
4IV	-	-	4	-	-	-
4V	-	-	1	1	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	1	-
Total	31	14	90	10	23	4

TABLE 5:15
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET EDGE
MORPHOLOGY AND TIP MORPHOLOGY

	Rectilinear			Curved			Shouldered		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	5	17	5	2	-	-	1	1	-
2I	-	-	-	-	-	-	-		-
2II	-	-	-	-	-	-	-	-	-
2III	-	1	-	-	-	-	-	-	-
2IV	-	1	-	1	-	-	-	-	-
2V	-	-	-	1	-	-	-	-	-
2VI	-	1	-	1	-	-	-	-	-
2VII	-	1	-	-	-	-	-	-	-
2VIII	-	1	1	-	-	-	-	1	-
3I	2	15	6	3	-	-	-	1	-
3II	1	18	10	1	-	-	-	-	-
3III	1	9	9	1	-	1	-	-	-
3IV	5	5	2	-	-	-	-	-	-
3V	-	8	1	1	-	-	-	1	-
3VI	6	11	3	3	-	-	-	-	-
3VII	3	9	6	2	-	-	2	1	-
3VIII	-	2	-	-	-	-	-	-	-
3IX	-	-	-	1	-	-	-	-	-
4I	3	5	4	2	-	-	-	-	-
4II	3	3	-	1	2	-	2	-	-
4III	2	4	-	3	-	-	-	-	-
4IV	-	2	-	-	1	-	-	1	-
4V	-	3	-	-	-	-	-	1	-
4VI	-	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-	-
4XI	-	-	1	-	-	-	-	-	-
Total	31	116	48	23	3	1	5	7	

TABLE 5:16
 CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET EDGE
 LATERALIZATION AND TIP MORPHOLOGY

	Sinister			Dexter			Bilateral		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	5	5	2	2	13	3	1	-	-
2I	-	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-	-
2III	-	-	-	-	-	-	-	1	-
2IV	-	-	-	1	1	-	-	-	-
2V	1	-	-	-	-	-	-	-	-
2VI	1	1	-	-	-	-	-	-	-
2VII	-	1	-	-	-	-	-	-	-
2VIII	-	-	-	-	2	1	-	-	-
3I	3	11	2	1	5	4	1	-	-
3II	2	9	8	-	9	2	-	-	-
3III	1	1	5	1	9	4	-	-	-
3IV	3	1	1	2	4	-	-	-	1
3V	1	8	1	-	1	-	-	-	-
3VI	3	3	2	5	8	1	1	-	-
3VII	3	4	3	3	6	3	1	-	-
3VIII	-	-	-	-	2	-	-	-	-
3IX	-	-	-	1	-	-	-	-	-
4I	2	3	3	2	2	1	1	-	-
4II	3	3	-	3	2	-	-	-	-
4III	4	2	-	1	2	-	-	-	-
4IV	-	-	-	-	3	-	-	1	-
4V	-	1	-	-	3	-	-	-	-
4VI	-	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-	-
4XI	-	-	1	-	-	-	-	-	-
Total	32	53	28	22	72	19	5	2	1

TABLE 5:17
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET EDGE
LATERALIZATION AND EDGE MORPHOLOGY

	Sinister			Dexter			Bilateral		
	Rect.	Curved	Shoulder.	Rect.	Curved	Shoulder.	Rect.	Curved	Shoulder.
1	14	2	2	18	-	-	-	1	-
2I	-	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-	-
2III	1	-	-	-	-	-	1	-	-
2IV	-	-	-	1	1	-	-	-	-
2V	1	1	-	-	-	-	-	-	-
2VI	1	1	-	-	-	-	-	-	-
2VII	1	-	-	-	-	-	-	-	-
2VIII	2	-	-	2	-	1	1	-	-
3I	13	2	1	11	-	-	-	1	-
3II	22	1	-	12	-	-	-	-	-
3III	7	1	-	14	2	-	-	-	-
3IV	4	-	1	6	-	1	1	-	-
3V	8	1	1	1	-	-	-	-	-
3VI	8	1	-	15	1	-	1	1	-
3VII	10	-	2	15	1	1	1	1	-
3VIII	1	-	-	2	-	-	-	-	-
3IX	1	-	-	1	1	-	-	-	-
4I	8	2	-	7	-	-	-	1	-
4II	5	2	-	6	1	1	-	-	-
4III	6	2	-	5	1	-	-	-	-
4IV	2	-	1	2	1	1	1	-	-
4V	2	-	-	3	-	1	-	-	-
4VI	-	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-	-
4VIII		-	-	-	-	-	-	-	-
4IX	-	-	-	1	-	-	-	-	-
4X	-	-	-	-	-	-	-	-	-
4XI	1	-	-	-	-	-	-	-	-
Total	118	16	8	122	9	6	6	5	-

TABLE 5:18
CIPOLLIANE: COVARIATION BETWEEN WHOLE BACKED BLADELET EDGE
LATERALIZATION AND SIZE

	Sinister		Dexter		Bilateral	
	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm
1	6	2	6	1	-	1
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	1	-
2IV	-	-	1	-	-	-
2V	1	-	-	-	-	-
2VI	1	-	-	-	-	-
2VII	1	-	-	-	-	-
2VIII	-	-	-	1	-	-
3I	11	-	5	2	-	1
3II	17	-	5	-	-	-
3III	2	1	10	1	-	-
3IV	3	1	4	1	-	-
3V	5	2	1	-	-	-
3VI	8	-	12	1	1	-
3VII	6	3	9	-	-	1
3VIII	-	-	1	1	-	-
3IX	-	-	-	-	-	-
4I	5	1	5	-	1	-
4II	4	-	3	2	-	-
4III	2	3	1	1	-	-
4IV	-	-	3	-	1	-
4V	-	-	1	1	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	1	-	-	-	-	-
Total	73	13	67	12	4	3

TABLE 5:19
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET RETOUCH
AMPLITUDE AND TIP MORPHOLOGY

	Invasive			Marginal		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	8	16	5	-	2	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	1	-
2IV	1	1	-	-	-	-
2V	1	-	-	-	-	-
2VI	1	1	-	-	-	-
2VII	-	1	-	-	-	-
2VIII	-	2	-	-	-	1
3I	5	12	4	-	4	2
3II	2	16	9	-	2	1
3III	2	10	6	-	-	3
3IV	5	5	2	-	-	-
3V	1	6	1	-	3	-
3VI	8	11	3	1	-	-
3VII	7	9	6	-	1	-
3VIII	-	1	-	-	1	-
3IX	1	-	-	-	-	-
4I	5	3	4	-	2	-
4II	6	5	-	-	-	-
4III	5	4	-	-	-	-
4IV	-	3	-	-	1	-
4V	-	4	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	1
Total	58	110	40	1	17	8

TABLE 5:20
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET RETOUCH
AMPLITUDE AND EDGE MORPHOLOGY

	Invasive			Marginal		
	Rectilinear	Curved	Shouldered	Rectilinear	Curved	Shouldered
1	30	3	2	2	-	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	2	-	-
2IV	1	1	-	-	-	-
2V	1	1	-	-	-	-
2VI	1	1	-	-	-	-
2VII	1	-	-	-	-	-
2VIII	5	-	1	-	-	-
3I	17	3	1	7	-	-
3II	30	1	-	4	-	-
3III	18	3	-	3	-	-
3IV	11	-	2	-	-	-
3V	6	1	1	3	-	-
3VI	23	3	-	-	1	-
3VII	22	2	4	3	-	-
3VIII	2	-	-	1	-	-
3IX	2	1	-	-	-	-
4I	12	3	-	3	-	-
4II	11	2	1	1	-	-
4III	10	3	-	1	-	-
4IV	4	1	2	1	-	-
4V	4	-	1	1	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	1	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	1	-	-
Total	212	29	15	33	1	-

TABLE 5:21
CIPOLLIANE: COVARIATION BETWEEN WHOLE BACKED BLADELET
RETOUCH AMPLITUDE AND SIZE

	Invasive		Marginal	
	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm
1	11	5	-	-
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	1	-
2IV	1	-	-	-
2V	1	-	-	-
2VI	1	-	-	-
2VII	1	-	-	-
2VIII	-	1	-	-
3I	12	3	4	-
3II	19	-	3	-
3III	12	2	-	-
3IV	7	2	-	-
3V	5	2	1	-
3VI	20	1	1	-
3VII	14	4	1	-
3VIII	1	-	-	1
3IX	-	-	-	-
4I	9	1	2	-
4II	7	2	-	-
4III	4	3	-	-
4IV	3	-	1	-
4V	1	1	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	1	-
Total	129	27	15	1

TABLE 5:22
 CIPOLLIANE: COVARIATION BETWEEN THE PRESENCE/ABSENCE OF
 SECONDARY LATERAL RETOUCH AND BACKED BLADELET TIP
 MORPHOLOGY

	Present			Absent		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	3	6	1	5	12	4
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	1	-
2IV	-	1	-	1	-	-
2V	-	-	-	1	-	-
2VI	1	1	-	-	-	-
2VII	-	-	-	-	1	-
2VIII	-	1	-	-	1	1
3I	3	2	-	2	14	6
3II	2	3	3	-	15	7
3III	1	1	4	1	9	5
3IV	4	4	1	1	1	1
3V	1	3	-	-	6	1
3VI	5	-	-	4	11	3
3VII	5	1	1	2	9	5
3VIII	-	1	-	-	1	-
3IX	1	-	-	-	-	-
4I	2	-	2	3	5	2
4II	5	1	-	1	4	-
4III	2	2	-	3	2	-
4IV	-	1	-	-	3	-
4V	-	2	-	-	2	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	1
Total	35	30	12	24	97	36

TABLE 5:23
CIPOLLIANE: COVARIATION BETWEEN THE PRESENCE/ABSENCE OF
SECONDARY LATERAL RETOUCH AND BACKED BLADELET EDGE
MORPHOLOGY

	Present			Absent		
	Rectilinear	Curved	Shouldered	Rectilinear	Curved	Shouldered
1	12	1	-	20	1	2
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	2	-	-
2IV	1	-	-	-	1	-
2V	-	-	-	1	1	-
2VI	1	1	-	-	-	-
2VII	-	-	-	1	-	-
2VIII	3	-	-	2	-	1
3I	4	2	-	19	2	1
3II	8	1	-	26	-	-
3III	5	1	-	16	3	-
3IV	8	-	2	3	-	-
3V	3	1	-	6	-	1
3VI	8	-	-	14	5	-
3VII	7	-	2	18	2	2
3VIII	1	-	-	2	-	-
3IX	1	-	-	2	-	-
4I	5	1	-	11	1	-
4II	3	2	2	5	2	1
4III	4	1	-	7	2	-
4IV	1	-	-	3	1	2
4V	1	-	1	4	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	1	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	1	-	-
Total	78	11	7	163	21	10

TABLE 5:24
 CIPOLLIANE: COVARIATION BETWEEN THE PRESENCE/ABSENCE OF
 SECONDARY LATERAL RETOUCH AND WHOLE BACKED BLADELET SIZE

	Present		Absent	
	<2.5 cm	>2.5 cm	<2.5 cm	>2.5 cm
1	7	2	4	3
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	1	-
2IV	1	-	-	-
2V	-	-	1	-
2VI	1	-	-	-
2VII	-	-	1	-
2VIII	-	-	-	1
3I	2	1	14	2
3II	8	-	14	-
3III	3	1	9	-
3IV	6	2	1	-
3V	1	2	5	-
3VI	4	1	17	-
3VII	4	2	11	2
3VIII	-	1	1	-
3IX	-	-	-	-
4I	3	1	8	-
4II	5	1	2	1
4III	3	1	1	2
4IV	1	-	3	-
4V	1	1	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	1	-
Total	50	16	94	12

TABLE 5:25
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET SECONDARY
LATERAL RETOUCH LOCATION AND TIP MORPHOLOGY

	Proximal			Distal			Continuous		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	1	2	1	-	2	-	2	2	-
2I	-	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-	-
2III	-	-	-	-	-	-	-	-	-
2IV	-	-	-	-	-	-	-	1	-
2V	-	-	-	-	-	-	-	-	-
2VI	-	-	-	-	-	-	1	1	-
2VII	-	-	-	-	-	-	-	-	-
2VIII	-	-	-	-	-	-	-	1	-
3I	-	1	-	2	-	-	1	1	-
3II	-	2	-	1	1	-	1	-	3
3III	-	-	1	1	-	2	-	1	1
3IV	-	2	-	4	-	-	-	2	1
3V	1	1	-	-	1	-	-	1	-
3VI	-	-	-	5	-	-	-	-	-
3VII	2	1	-	1	-	-	2	-	1
3VIII	-	-	-	-	-	-	-	1	-
3IX	-	-	-	-	-	-	1	-	-
4I	-	-	1	1	-	1	1	-	-
4II	1	-	-	-	-	-	4	1	-
4III	1	1	-	1	-	-	-	1	-
4IV	-	-	-	-	-	-	-	1	-
4V	-	-	-	-	-	-	-	2	-
4VI	-	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-	-
4XI	-	-	-	-	-	-	-	-	-
Total	6	10	3	16	4	3	13	16	6

TABLE 5:26
CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET VENTRAL
RETOUCH LOCATION AND TIP MORPHOLOGY

	Proximal			Distal		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	2	-	1	-	1	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	1	1	-	-	-	-
2V	-	-	-	-	-	-
2VI	-	-	-	-	-	-
2VII	-	-	-	-	-	-
2VIII	-	1	-	-	-	-
3I	-	1	-	1	-	-
3II	-	2	-	1	1	-
3III	-	2	1	-	-	1
3IV	2	-	-	-	-	-
3V	-	-	-	-	-	-
3VI	-	1	-	1	1	-
3VII	4	-	-	-	-	-
3VIII	-	-	-	-	-	-
3IX	-	-	-	-	-	-
4I	1	-	-	-	-	-
4II	2	-	-	-	-	-
4III	1	-	-	1	-	-
4IV	-	-	-	-	-	-
4V	-	-	-	-	1	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	13	8	2	4	4	1

TABLE 5:27
 CIPOLLIANE: COVARIATION BETWEEN BACKED BLADELET VENTRAL
 RETOUCH AMPLITUDE AND TIP MORPHOLOGY

	Marginal			Invasive		
	Pointed	Obtuse	Truncated	Pointed	Obtuse	Truncated
1	-	-	-	2	1	1
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	1	1	-	-	-	-
2V	-	-	-	-	-	-
2VI	-	-	-	-	-	-
2VII	-	-	-	-	-	-
2VIII	-	-	-	-	1	-
3I	1	1	-	-	-	-
3II	1	-	-	-	3	-
3III	-	1	-	-	1	2
3IV	-	-	-	2	-	-
3V	-	-	-	-	-	-
3VI	-	1	-	1	1	-
3VII	2	-	-	2	-	-
3VIII	-	-	-	-	-	-
3IX	-	-	-	-	-	-
4I	1	-	-	-	-	-
4II	2	-	-	-	-	-
4III	1	-	-	1	-	-
4IV	-	-	-	-	-	-
4V	-	-	-	-	1	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	9	4	-	8	8	3

TABLE 5:28
 ATTRIBUTES OF THE LINEAR RETOUCHE TOOLS

A. TYPE OF BLANK			
A1-flake	A2-bladelet	A3-blade	
B. SIZE OF THE BLANK			
B1-small	B2-medium	B3-large	
C. LATERALIZATION OF THE RETOUCH			
C1-sinister lateral	C2-dexter lateral	C3-bilateral	C4-transversal
D. CROSS-SECTION OF THE BLANK			
D1-flat	D2-carinated		
E. MORPHOLOGY OF THE SINISTER EDGE			
E1-rectilinear	E2-convex	E3-concave	
F. ANGLE OF THE SINISTER LATERAL RETOUCH			
F1-simple	F2-abrupt		
G. AMPLITUDE OF THE SINISTER LATERAL RETOUCH			
G1-marginal	G2-invasive		
H. DIRECTION OF THE SINISTER LATERAL RETOUCH			
H1-direct	H2-inverse	H3-alternate	
I. MORPHOLOGY OF THE DEXTER EDGE			
I1-rectilinear	I2-convex	I3-concave	
J. ANGLE OF THE DEXTER LATERAL RETOUCH			
J1-simple	J2-abrupt		
K. AMPLITUDE OF THE DEXTER LATERAL RETOUCH			
K1-marginal	K2-invasive		
L. DIRECTION OF THE DEXTER LATERAL RETOUCH			
L1-direct	L2-inverse	L3-alternate	
M. MORPHOLOGY OF THE TRANSVERSAL EDGE			
M1-rectilinear	M2-convex	M3-concave	
N. ANGLE OF THE TRANSVERSAL RETOUCH			
N1-simple	N2-abrupt		
O. AMPLITUDE OF THE TRANSVERSAL RETOUCH			
O1-marginal	O2-invasive		
P. DIRECTION OF THE TRANSVERSAL RETOUCH			
P1-direct	P2-inverse	P3-alternate	

TABLE 5:29
 CIPOLLIANE: ATTRIBUTES OF THE LINEAR RETOUCHEDED TOOLS (A-D)
 (see Table 5:28 for key)

		A			B			C				D	
		1	2	3	1	2	3	1	2	3	4	1	2
1		22	22	3	20	24	3	11	13	16	7	45	2
2	I												
	II												
	III	2			2				2			2	
	IV												
	V												
	VI	1				1			1			1	
	VII												
	VIII	2	1	1		2	2	1	1	1	1	4	
3	I	1	1		2				2			2	
	II	3	3		2	4		2	2	1	1	5	1
	III	2			2				1		1	2	
	IV												
	V												
	VI	1				1				1		1	
	VII	3			1	2			1	1	1	3	
	VIII	1	4	1	2	3	1	1	1	4		6	
	IX	1			1			1				1	
4	I	12	11		9	14		8	9	5	1	22	1
	II	6	7	1	5	8	1	6	2	6		12	2
	III	5	4		2	7		4	3	2		8	1
	IV	7	6		6	7		5	5	3		13	
	V	2	3		3	2		4			1	5	
	VI		1			1			1			1	
	VII												
	VIII												
	IX		1		1			1				1	
	X	1	1		1	1		1	1			2	
	XI	1	2		1	2		2	1			3	
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												

TABLE 5:30
 CIPOLLIANE: ATTRIBUTES OF THE LINEAR RETOUCHE TOOLS (E-H)
 (see Table 5:28 for key)

	E			F		G		H		
	1	2	3	1	2	1	2	1	2	3
1	24	2	1	26	1	7	20	24	2	1
2	I									
	II									
	III									
	IV									
	V									
	VI									
	VII									
	VIII	2		2			2	2		
3	I									
	II	3		3		2	1	2		1
	III									
	IV									
	V									
	VI	1		1			1	1		
	VII	1		1		1		1		
	VIII	5		5		1	4	5		
	IX	1		1		1		1		
4	I	9	4	10	1	7	6	13		
	II	11	1	11	1	4	8	12		
	III	4	2	6		1	5	6		
	IV	7		8		6	2	7	1	
	V	3	1	4		1	3	4		
	VI									
	VII									
	VIII									
	IX	1		1		1		1		
	X	1			1		1	1		
	XI	2		2		1	1	2		
	XII									
	XIII									
	XIV									
	XV									
	XVI									
	XVII									
	XVIII									
	XIX									

TABLE 5:31
 CIPOLLIANE: ATTRIBUTES OF THE LINEAR RETOUCHE TOOLS (I-L)
 (see Table 5:28 for key)

		I			J		K		L		
		1	2	3	1	2	1	2	1	2	3
1		26	1	2	26	3	11	18	25	3	1
2	I										
	II										
	III	2			1	1	1	1	1	1	
	IV										
	V										
	VI	1			1		1		1		
	VII										
	VIII	2			2			2	2		
3	I	2			1	1	2		2		
	II	3			2	1	3		2	1	
	III	1			1			1	1		
	IV										
	V										
	VI	1			1			1	1		
	VII	2			1	1	2		2		
	VIII	5			5		2	3	5		
	IX										
4	I	10	3	1	13	1	9	5	12	1	1
	II	6	2		7	1	4	4	8		
	III	3	2		5		1	4	5		
	IV	6	2		8		5	3	7	1	
	V										
	VI	1			1			1	1		
	VII										
	VIII										
	IX										
	X	1			1			1	1		
	XI	1			1		1		1		
	XII										
	XIII										
	XIV										
	XV										
	XVI										
	XVII										
	XVIII										
	XIX										

TABLE 5:32
CIPOLLIANE: ATTRIBUTES OF THE LINEAR RETOUCED TOOLS (M-P)
(see Table 5:28 for key)

	M			N		O		P		
	1	2	3	1	2	1	2	1	2	3
1	7			6	1	1	6	7		
2	I									
	II									
	III									
	IV									
	V									
	VI									
	VII									
	VIII	1		1		1		1		
3	I									
	II	1		1			1	1		
	III	1			1	1		1		
	IV									
	V									
	VI									
	VII	1		1			1	1		
	VIII									
	IX									
4	I	1			1	1		1		
	II									
	III									
	IV									
	V	1			1	1		1		
	VI									
	VII									
	VIII									
	IX									
	X									
	XI									
	XII									
	XIII									
	XIV									
	XV									
	XVI									
	XVII									
	XVIII									
	XIX									

TABLE 5:33
ATTRIBUTES OF THE BURINS

A. TYPE OF BLANK			
A1-flake	A2-bladelet	A3-blade	
B. SIZE OF THE BLANK			
B1-small	B2-medium	B3-large	
C. LOCATION OF THE BURIN BIT(S)			
C1-proximal	C2-distal	C3-double	
D. DIRECTION OF THE DISTAL FACET(S)			
D1-lateral	D2-transversal	D3-latero-transversal	
E. DIRECTION OF THE PROXIMAL FACET(S)			
E1- lateral	E2-transversal	E3-latero-transversal	
F. PRIMARY MODIFICATION OF THE DISTAL END			
F1-unmodified	F2-break	F3-abrupt invasive retouch	
F4-abrupt marginal retouch	F5-simple invasive retouch	F6-simple marginal retouch	
F7-elevated retouch	F8-right-angle straight trunc.	F9-right-angle concave trunc.	
F10-oblique straight trunc.	F11-oblique concave trunc.		
G. MORPHOLOGY OF THE DISTAL BURIN PROFILE			
G1-axial	G2-angle		
H. MORPHOLOGY OF THE DISTAL FACET CONVERGENCE LINE			
H1-rectilinear	H2-sigmoid	H3-polygonal	
I. PRIMARY MODIFICATION OF THE PROXIMAL END			
I1-unmodified	I2-break	I3-abrupt invasive retouch	
I4-abrupt marginal retouch	I5-simple invasive retouch	I6-simple marginal retouch	
I7-elevated retouch	I8-right-angle straight trunc.	I9-right-angle concave trunc.	
I10-oblique straight trunc.	I11-oblique concave trunc.		
J. MORPHOLOGY OF THE PROXIMAL BURIN PROFILE			
J1-axial	J2-angle		
K. MORPHOLOGY OF THE PROXIMAL FACET CONVERGENCE LINE			
K1-rectilinear	K2-sigmoid	K3-polygonal	
L. LATERALIZATION OF THE SECONDARY RETOUCH			
L1-absent	L2-sinister lateral	L3-dexter lateral	L4-bilateral
M. ANGLE OF THE SECONDARY RETOUCH			
M1-simple	M2-abrupt	M3-flat	M4-elevated
N. AMPLITUDE OF THE SECONDARY RETOUCH			
N1-marginal	N2-invasive		
O. DIRECTION OF THE SECONDARY RETOUCH			
O1-direct	O2-inverse	O3-bifacial	

TABLE 5:34
CIPOLLIANE: ATTRIBUTES OF THE BURINS (A-E)
(see Table 5:33 for key)

	A			B			C			D			E		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	10	3		11	2		2	7	4	8		3	4		2
2	I														
	II														
	III														
	IV														
	V														
	VI	1			1			1		1					
	VII														
	VIII														
3	I	4	1		4	1		4	1	4	1		1		
	II	6	4		9	1		1	7	2	5	1	3	3	
	III	5	4		6	3		1	6	2	8			2	1
	IV	7	5		8	4			8	4	7		5	4	
	V	12	4		15	1		2	6	8	9	2	3	8	2
	VI	16	4		17	3		4	10	6	13	1	2	10	
	VII	13	3		11	5		1	6	9	10	1	4	7	3
	VIII														
	IX	1				1				1	1			1	
4	I	11			10	1		1	8	2	7	2	1	3	
	II	4			2	2			3	1	2	1	1	1	
	III	2			1	1		1	1		1				1
	IV	1	1		1	1		1	1		1			1	
	V	1			1				1		1				
	VI														
	VII														
	VIII														
	IX														
	X														
	XI														
	XII														
	XIII														
	XIV														
	XV														
	XVI														
	XVII														
	XVIII														
	XIX														

TABLE 5:35
CIPOLLIANE: ATTRIBUTES OF THE BURINS (F-H)
(see Table 5:33 for key)

	F											G		H		
	1	2	3	4	5	6	7	8	9	10	11	1	2	1	2	3
1	4	2			1			3			1	1	10	5		6
2	I															
	II															
	III															
	IV															
	V															
	VI	1											1	1		
	VII															
	VIII															
3	I	2	1					1			1	1	4	2	1	2
	II	5		2				2				1	8	6	1	2
	III	2	3		1			2					8	6		2
	IV	6	2		2			1			1	1	11	9	2	1
	V	6			2			4		2		2	12	9		5
	VI	7	3		2	1		1	2			5	11	8	1	7
	VII	6	4				1	1	1		1	1	13	7	3	5
	VIII															
	IX	1										1			1	
4	I	2	3	2		1		1		1		1	9	6	1	3
	II	2	1					1					4	2		2
	III		1										1	1		
	IV	1											1	1		
	V		1										1			1
	VI															
	VII															
	VIII															
	IX															
	X															
	XI															
	XII															
	XIII															
	XIV															
	XV															
	XVI															
	XVII															
	XVIII															
	XIX															

TABLE 5:36
 CIPOLLIANE: ATTRIBUTES OF THE BURINS (I-K)
 (see Table 5:33 for key)

	I											J		K		
	1	2	3	4	5	6	7	8	9	10	11	1	2	1	2	3
1	2	1						2		1			6	3	1	2
2	I															
	II															
	III															
	IV															
	V															
	VI															
	VII															
	VIII															
3	I				1								1	1		
	II				1			1		1			3	3		
	III			1				1		1			3	2		1
	IV		1	1				2					4	4		
	V	1	1	2				4		2			10	7		3
	VI	3	1		1			4		1		3	7	6	1	3
	VII	3	2					4		1		1	9	7	1	2
	VIII															
	IX	1										1				1
4	I		1					1		1			3	2		1
	II									1			1	1		
	III					1							1	1		
	IV								1				1			1
	V															
	VI															
	VII															
	VIII															
	IX															
	X															
	XI															
	XII															
	XIII															
	XIV															
	XV															
	XVI															
	XVII															
	XVIII															
	XIX															

TABLE 5:37
CIPOLLIANE: ATTRIBUTES OF THE BURINS (L-O)
(see Table 5:33 for key)

	L				M				N		O		
	1	2	3	4	1	2	3	4	1	2	1	2	3
1	10	3			2			1	1	2	3		
2	I												
	II												
	III												
	IV												
	V												
	VI	1											
	VII												
	VIII												
3	I	2	2	1		1		1	1	1	2	3	
	II	5	1	4		5				5	5		
	III	8			1	1				1	1		
	IV	7	3	2		5			2	3	5		
	V	12	2	2		1	3		1	3	3		1
	VI	12	3	4	1	4	2		2	1	7	8	
	VII	9	2	5		6			1	7	6	1	
	VIII												
	IX	1											
4	I	7	3	1		3	1			1	3	3	1
	II	1	1	2		3				2	1	3	
	III	1			1	1				1		1	
	IV		1	1		2				2	2		
	V			1				1	1		1		
	VI												
	VII												
	VIII												
	IX												
	X												
	XI												
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												

TABLE 5:38
CIPOLLIANE: COVARIATION BETWEEN BURIN MANUFACTURAL TYPE AND
BLANK TYPE

	Simple		Retouched	
	Flake	Bladelet	Flake	Bladelet
1	7	2	5	3
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	1	-	-	-
2VII	-	-	-	-
2VIII	-	-	-	-
3I	2	1	3	-
3II	3	2	4	3
3III	1	4	4	2
3IV	6	3	3	4
3V	7	1	10	6
3VI	12	2	10	2
3VII	14	1	7	3
3VIII	-	-	-	-
3IX	2	-	-	-
4I	6	-	7	-
4II	3	-	2	-
4III	1	-	1	-
4IV	1	-	-	1
4V	1	-	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	67	16	56	24

TABLE 5:39
CIPOLLIANE: COVARIATION BETWEEN BURIN PROFILE MORPHOLOGY AND
BLANK TYPE

	Axial		Angle	
	Flake	Bladelet	Flake	Bladelet
1	-	1	12	4
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	-	-	1	-
2VII	-	-	-	-
2VIII	-	-	-	-
3I	1	-	4	1
3II	-	1	7	4
3III	-	-	5	6
3IV	1	-	8	7
3V	2	-	15	7
3VI	7	1	15	3
3VII	3	-	18	4
3VIII	-	-	-	-
3IX	2	-	-	-
4I	1	-	12	-
4II	-	-	5	-
4III	-	-	2	-
4IV	-	-	1	1
4V	-	-	1	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	17	3	106	37

TABLE 5:40
CIPOLLIANE: COVARIATION BETWEEN BURIN PROFILE MORPHOLOGY AND
BLANK SIZE

	Axial		Angle	
	<2.5	>2.5	<2.5	>2.5
1	-	1	14	2
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	-	-	-	1
2VII	-	-	-	-
2VIII	-	-	-	-
3I	1	-	5	-
3II	-	1	11	-
3III	-	-	7	4
3IV	1	-	10	5
3V	2	-	21	1
3VI	7	1	16	2
3VII	1	2	17	5
3VIII	-	-	-	-
3IX	-	2	-	-
4I	1	-	11	1
4II	-	-	3	2
4III	-	-	1	1
4IV	-	-	1	1
4V	-	-	1	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	13	7	118	25

TABLE 5:41
CIPOLLIANE: COVARIATION BETWEEN BURIN BLANK TYPE AND FACET
DIRECTION

	Flake			Bladelet		
	Lateral	Transv.	Latero-Tran.	Lateral	Transv.	Latero-Tran.
1	7	-	5	5	-	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	-	-	-	-	-	-
2V	-	-	-	-	-	-
2VI	1	-	-	-	-	-
2VII	-	-	-	-	-	-
2VIII	-	-	-	-	-	-
3I	4	1	-	1	-	-
3II	4	1	2	4	-	-
3III	5	-	-	5	1	-
3IV	5	-	4	6	-	1
3V	10	4	3	7	-	-
3VI	19	1	2	4	-	-
3VII	14	1	6	3	-	1
3VIII	-	-	-	-	-	-
3IX	2	-	-	-	-	-
4I	10	2	1	-	-	-
4II	3	1	1	-	-	-
4III	1	1	-	-	-	-
4IV	1	-	-	1	-	-
4V	1	-	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	87	12	24	36	1	3

TABLE 5:42
CIPOLLIANE: COVARIATION BETWEEN BURIN BLANK SIZE AND FACET
DIRECTION

	Small			Medium		
	Lateral	Transv.	Latero-Tran.	Lateral	Transv.	Latero-Tran.
1	9	-	5	3	-	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	-	-	-	-	-	-
2V	-	-	-	-	-	-
2VI	-	-	-	1	-	-
2VII	-	-	-	-	-	-
2VIII	-	-	-	-	-	-
3I	5	1	-	-	-	-
3II	7	1	3	1	-	-
3III	7	-	-	3	1	-
3IV	7	-	4	4	-	1
3V	17	4	3	-	-	1
3VI	20	1	2	3	-	-
3VII	11	-	7	6	1	-
3VIII	-	-	-	-	-	-
3IX	-	-	-	2	-	-
4I	9	2	1	1	-	-
4II	1	1	1	2	-	-
4III	1	-	-	-	-	-
4IV	1	-	-	1	1	-
4V	1	-	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	96	10	25	27	3	2

TABLE 5:43
CIPOLLIANE: METRICAL ATTRIBUTES OF THE BURINS: LENGTH

Level	No.	Min.	Max.	Range	Mean	Median	SD	Mode
1	13	15	34	19	21.1	19	5.79	16, 19
2I	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-
2III	-	-	-	-	-	-	-	-
2IV	-	-	-	-	-	-	-	-
2V	-	-	-	-	-	-	-	-
2VI	1	34	34	0	34	34	0	-
2VII	-	-	-	-	-	-	-	-
2VIII	-	-	-	-	-	-	-	-
3I	5	19	27	8	21.4	20	3.36	19
3II	10	16	28	12	19.9	19	3.57	19, 21
3III	9	19	33	14	24.8	23	4.59	23
3IV	12	15	30	15	22.4	22.5	3.98	21
3V	16	15	26	11	20.4	20.5	2.82	20, 21
3VI	20	16	35	19	21.5	21	4.51	21, 22
3VII	16	16	33	17	23.4	23	4.03	23
3VIII	-	-	-	-	-	-	-	-
3IX	1	27	27	0	27	27	0	-
4I	11	10	23	13	17.9	20	4.22	20
4II	4	18	39	21	25.8	23	9.28	-
4III	2	21	25	4	23	23	2.82	-
4IV	2	17	25	8	21	21	5.65	-
4V	1	16	16	0	16	16	0	-
4VI	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-
4XI	-	-	-	-	-	-	-	-

TABLE 5:44
CIPOLLIANE: METRICAL ATTRIBUTES OF THE BURINS: WIDTH

Level	No.	Min.	Max.	Range	Mean	Median	SD	Mode
1	13	10	19	9	14.92	15	2.53	15
2I	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-
2III	-	-	-	-	-	-	-	-
2IV	-	-	-	-	-	-	-	-
2V	-	-	-	-	-	-	-	-
2VI	1	15	15	0	15	15	0	-
2VII	-	-	-	-	-	-	-	-
2VIII	-	-	-	-	-	-	-	-
3I	5	10	15	5	12.6	13	2.07	-
3II	10	10	15	5	12.9	13	1.72	12, 14
3III	9	10	22	12	14.3	13	4.60	10
3IV	12	9	21	12	14.3	13	4.18	12, 13
3V	16	7	22	15	13.8	13.5	4.34	10
3VI	20	10	22	12	14.6	13.5	2.99	15
3VII	16	10	21	11	13.5	14	3.16	10
3VIII	-	-	-	-	-	-	-	-
3IX	1	10	10	0	10	10	0	-
4I	11	9	20	11	14	14	4.04	10
4II	4	12	30	18	18.5	16	7.93	-
4III	2	12	24	12	18	21	8.48	-
4IV	2	8	12	4	10	11	2.82	-
4V	1	13	13	0	13	13	0	-
4VI	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-
4XI	-	-	-	-	-	-	-	-

TABLE 5:45
CIPOLLIANE: METRICAL ATTRIBUTES OF THE BURINS: THICKNESS

Level	No.	Min.	Max.	Range	Mean	Median	SD	Mode
1	13	4	12	8	6.6	7	2.56	4
2I	-	-	-	-	-	-	-	-
2II	-	-	-	-	-	-	-	-
2III	-	-	-	-	-	-	-	-
2IV	-	-	-	-	-	-	-	-
2V	-	-	-	-	-	-	-	-
2VI	1	7	7	0	7	7	0	-
2VII	-	-	-	-	-	-	-	-
2VIII	-	-	-	-	-	-	-	-
3I	5	4	9	5	6.2	6	1.92	5, 6
3II	10	4	7	3	5.8	6	1.03	5
3III	9	3	10	7	6.4	5	2.45	6
3IV	12	3	7	4	5.6	6	0.98	6
3V	16	3	10	7	6.8	7	1.92	6
3VI	20	4	10	6	6.9	7	1.61	7
3VII	16	4	10	6	6.5	6.5	1.59	7
3VIII	-	-	-	-	-	-	-	-
3IX	1	6	6	0	6	6	0	-
4I	11	3	10	7	5.3	5	2.01	6
4II	4	6	12	6	7.8	6.5	2.87	6
4III	2	7	7	0	7	7	0	7
4IV	2	3	4	4	3.5	3.5	0.70	-
4V	1	5	5	0	5	5	0	-
4VI	-	-	-	-	-	-	-	-
4VII	-	-	-	-	-	-	-	-
4VIII	-	-	-	-	-	-	-	-
4IX	-	-	-	-	-	-	-	-
4X	-	-	-	-	-	-	-	-
4XI	-	-	-	-	-	-	-	-

TABLE 5:46
 CIPOLLIANE: COVARIATION BETWEEN PRESENCE/ABSENCE OF SECONDARY
 RETOUCH AND BURIN PROFILE MORPHOLOGY

	Present		Absent	
	Axial	Angle	Axial	Angle
1	1	4	-	12
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	-	-	-	1
2VII	-	-	-	-
2VIII	-	-	-	-
3I	-	3	1	2
3II	1	5	-	6
3III	-	2	-	9
3IV	1	7	-	8
3V	-	5	2	17
3VI	3	8	5	10
3VII	1	11	2	11
3VIII	-	-	-	-
3IX	-	-	2	-
4I	1	3	-	9
4II	-	4	-	1
4III	-	1	-	1
4IV	-	2	-	-
4V	-	1	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	8	56	12	87

TABLE 5:47
 CIPOLLIANE: COVARIATION BETWEEN PRESENCE/ABSENCE OF SECONDARY
 RETOUCH AND BLANK TYPE

	Present		Absent	
	Flake	Bladelet	Flake	Bladelet
1	1	2	9	1
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	-	-	1	-
2VII	-	-	-	-
2VIII	-	-	-	-
3I	2	1	2	-
3II	1	4	5	-
3III	1	-	3	5
3IV	2	3	5	2
3V	2	2	10	2
3VI	4	4	12	-
3VII	5	2	8	1
3VIII	-	-	-	-
3IX	-	-	1	-
4I	4	-	7	-
4II	3	-	1	-
4III	1	-	1	-
4IV	1	1	-	-
4V	1	-	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	28	19	65	11

TABLE 5:48
ATTRIBUTES OF THE ENDSCRAPERS

A. TYPE OF BLANK				
A1-flake	A2-bladelet	A3-blade		
B. SIZE OF THE BLANK				
B1-small	B2-medium	B3-large		
C. CROSS-SECTION OF THE BLANK				
C1-flat	C2-carinated			
D. MORPHOLOGY OF THE BLANK				
D1-short	D2-long	D3-circular		
E. LOCATION OF THE SCRAPING EDGE				
E1-distal	E2-proximal	E3-double	E4-continuous	E5-lateral
F. MORPHOLOGY OF THE DISTAL SCRAPING EDGE				
F1-convex	F2-nosed			
G. MORPHOLOGY OF THE PROXIMAL SCRAPING EDGE				
G1-convex	G2-nosed			
H. LATERALIZATION OF THE SECONDARY RETOUCH				
H1-absent	H2-sinister lateral	H3-dexter lateral		
H4-bilateral	H5-bitransversal			
I. ANGLE OF THE SECONDARY RETOUCH				
I1-simple	I2-flat	I3-elevated		
J. AMPLITUDE OF THE SECONDARY RETOUCH				
J1-marginal	J2-invasive			
K. DIRECTION OF THE SECONDARY RETOUCH				
K1-direct	K2-inverse	K3-alternate		

TABLE 5:49
 CIPOLLIANE: ATTRIBUTES OF THE ENDSCRAPERS (A-E)
 (see Table 5:48 for key)

	A			B			C		D			E				
	1	2	3	1	2	3	1	2	1	2	3	1	2	3	4	5
1	12	9		17	4		16	5	20		1	12	2	3	1	3
2	I															
	II															
	III															
	IV															
	V															
	VI	1	1		2		2		1	1		2				
	VII															
	VIII	2				2	2		2			2				
3	I	3	6		7	2	9		6	3		9				
	II	8	5		13		13		11	2		11	1	1		
	III	5	4		6	3	8	1	8	1		6	3			
	IV	6	3		9		8	1	9			9				
	V	7	6		13		12	1	10	3		11	2			
	VI	4	5		8	1	9		5	4		8	1			
	VII	4	9		12	1	12	1	12	1		10	2	1		
	VIII		1		1		1		1			1				
	IX															
4	I	2			2		1	1	2			2				
	II		1		1		1			1		1				
	III															
	IV		1			1	1		1				1			
	V															
	VI															
	VII															
	VIII															
	IX															
	X															
	XI															
	XII															
	XIII															
	XIV															
	XV															
	XVI															
	XVII															
	XVIII															
	XIX															

TABLE 5:50
CIPOLLIANE: ATTRIBUTES OF THE ENDSCRAPERS (F-K)
(see Table 5:48 for key)

	F		G		H					I			J		K	
	1	2	1	2	1	2	3	4	5	1	2	3	1	2	1	2
1	17	1	6		12	2	4	2	1	8		1		9	8	1
2	I															
	II															
	III															
	IV															
	V															
	VI	2				1	1			2				2	1	
	VII															
	VIII	2			1		1			2				2	2	
3	I	9			3	3	1	2		5	1		2	4	6	
	II	11	1	2	6	3	2	2		7				7	7	
	III	6		3	3	4	1	1		6			1	5	6	
	IV	8	1		4	1	3	1		4	1			5	5	
	V	11		2	7	1	3	2		6			3	3	5	1
	VI	8		1	5	1	3			4			3	1	4	
	VII	11		3	2	4	2	5		11			2	9	11	
	VIII	1						1		1				1	1	
	IX															
4	I	1	1		1			1		1				1	1	
	II	1			1											
	III															
	IV			1				1		1				1	1	
	V															
	VI															
	VII															
	VIII															
	IX															
	X															
	XI															
	XII															
	XIII															
	XIV															
	XV															
	XVI															
	XVII															
	XVIII															
	XIX															

TABLE 5:51
 CIPOLLIANE: COVARIATION BETWEEN PRESENCE/ABSENCE OF SECONDARY
 RETOUCH AND ENDSCRAPER BLANK SIZE

	Present		Absent	
	<2.5	>2.5	<2.5	>2.5
1	7	2	10	2
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	1	-	1	-
2VII	-	-	-	-
2VIII	-	2	-	-
3I	5	1	2	1
3II	7	-	6	-
3III	3	3	3	-
3IV	5	-	4	-
3V	6	-	7	-
3VI	3	1	5	-
3VII	11	-	1	1
3VIII	1	-	-	-
3IX	-	-	-	-
4I	1	-	1	-
4II	-	-	1	-
4III	-	-	-	-
4IV	-	1	-	-
4V	-	-	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	50	10	41	4

TABLE 5:52
CIPOLLIANE: COVARIATION BETWEEN PRESENCE/ABSENCE OF SECONDARY
RETOUCH AND ENDSCRAPER BLANK TYPE

	Present		Absent	
	Flake	Bladelet	Flake	Bladelet
1	2	7	10	2
2I	-	-	-	-
2II	-	-	-	-
2III	-	-	-	-
2IV	-	-	-	-
2V	-	-	-	-
2VI	1	-	-	1
2VII	-	-	-	-
2VIII	2	-	-	-
3I	3	3	-	3
3II	3	4	5	1
3III	2	4	3	-
3IV	4	1	2	2
3V	3	3	4	3
3VI	1	3	3	2
3VII	3	8	1	1
3VIII	-	1	-	-
3IX	-	-	-	-
4I	1	-	1	-
4II	-	-	-	1
4III	-	-	-	-
4IV	-	1	-	-
4V	-	-	-	-
4VI	-	-	-	-
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	-	-
4X	-	-	-	-
4XI	-	-	-	-
Total	25	35	29	16

TABLE 5:53
ATTRIBUTES OF THE NOTCHES

A. TYPE OF BLANK			
A1-flake	A2-bladelet	A3-blade	
B. SIZE OF THE BLANK			
B1-small	B2-medium	B3-large	
C. LATERALIZATION OF THE NOTCH(ES)			
C1-sinister lateral	C2-dexter lateral	C3-bilateral	C4-transversal
D. ANGLE OF THE NOTCH RETOUCH			
D1-simple	D2-abrupt		
E. AMPLITUDE OF THE NOTCH RETOUCH			
E1-marginal	E2-invasive		
F. DIRECTION OF THE NOTCH RETOUCH			
F1-direct	F2-inverse		
G. LATERALIZATION OF THE SECONDARY RETOUCH			
G1-absent	G2-lateral	G3-bilateral	G4-transversal
H. ANGLE OF THE SECONDARY RETOUCH			
H1-simple	H2-abrupt		
I. AMPLITUDE OF THE SECONDARY RETOUCH			
I1-marginal	I2-invasive		
J. DIRECTION OF THE SECONDARY RETOUCH			
J1-direct	J2-inverse	J3-alternate	

TABLE 5:54
CIPOLLIANE: ATTRIBUTES OF THE NOTCHES (A-F)
(see Table 5:53 for key)

		A			B			C				D		E		F	
		1	2	3	1	2	3	1	2	3	4	1	2	1	2	1	2
1		8	1		5	4		1	6	1	1	9		6	3	8	1
2	I																
	II																
	III																
	IV																
	V																
	VI																
	VII																
	VIII	1	1		1	1			2				2			2	
3	I	5	1		6			1	3	1	1	6			6	6	
	II	6			5	1			5		1	6		2	4	5	1
	III	3	3		5	1		2	3		1	6		3	3	3	3
	IV	2			2			2				2		1	1	2	
	V	2			2			2				1	1	1	1	2	
	VI	2	1			3		2			1	2	1	1	2	2	1
	VII	2	3		3	2		4	1			5		1	4	3	2
	VIII																
	IX																
4	I	1	3		3	1		2	2			4		2	2	4	
	II	5	1		5	1		1	4		1	6		6		5	1
	III																
	IV																
	V																
	VI																
	VII																
	VIII																
	IX																
	X																
	XI																
	XII																
	XIII																
	XIV																
	XV																
	XVI																
	XVII																
	XVIII																
	XIX																

TABLE 5:55
 CIPOLLIANE: ATTRIBUTES OF THE NOTCHES (G-J)
 (see Table 5:53 for key)

	G				H		I		J	
	1	2	3	4	1	2	1	2	1	2
1	9									
2	I									
	II									
	III									
	IV									
	V									
	VI									
	VII									
	VIII	1	1		1		1		1	
3	I	3	1	1		3	3		3	
	II	6								
	III	4	2		2		2		2	
	IV	2								
	V	1	1		1			1	1	
	VI	2	1		1		1		1	
	VII	5								
	VIII									
4	IX									
	I	1	2		2	1	3		3	
	II	6								
	III									
	IV									
	V									
	VI									
	VII									
	VIII									
	IX									
	X									
	XI									
	XII									
	XIII									
	XIV									
	XV									
	XVI									
	XVII									
	XVIII									
	XIX									

TABLE 5:56
ATTRIBUTES OF THE DENTICULATES

A. TYPE OF BLANK

A1-flake A2-bladelet A3-blade

B. SIZE OF THE BLANK

B1-small B2-medium B3-large

C. LATERALIZATION OF THE DENTICULATE RETOUCH

C1-sinister lateral C2-dexter lateral C3-bilateral C4-transversal

D. ANGLE OF THE DENTICULATE RETOUCH

D1-simple D2-abrupt

E. AMPLITUDE OF THE DENTICULATE RETOUCH

E1-marginal E2-invasive

F. DIRECTION OF THE DENTICULATE RETOUCH

F1-direct F2-inverse F3-alternate

G. LATERALIZATION OF THE SECONDARY RETOUCH

G1-absent G2-lateral

H. ANGLE OF THE SECONDARY RETOUCH

H1-simple

I. AMPLITUDE OF THE SECONDARY RETOUCH

I1-marginal I2-invasive

J. DIRECTION OF THE SECONDARY RETOUCH

J1-direct J2-alternate J3-inverse

TABLE 5:57
CIPOLLIANE: ATTRIBUTES OF THE DENTICULATES (A-E)
(see Table 5:56 for key)

	A			B			C				D		E	
	1	2	3	1	2	3	1	2	3	4	1	2	1	2
1	4	2		2	4		4	1		1	5	1	1	5
2	I													
	II													
	III		1			1		1			1		1	
	IV													
	V													
	VI													
	VII													
	VIII													
3	I	1			1		1				1			1
	II													
	III													
	IV	2				2	2				2			2
	V	3			1	2	2	1			2	1	1	2
	VI	3	4		3	4	2	2	3		7		3	4
	VII		1			1		1			1			1
	VIII													
	IX													
	I	2				2	1	1			2			2
	II	2			1	1		2			2			2
	III	2				2		2			2		2	
	IV		1			1		1			1			1
	V	1				1				1	1			1
	VI													
	VII													
4	VIII													
	IX													
	X													
	XI	1				1				1	1		1	
	XII													
	XIII													
	XIV													
	XV													
	XVI													
	XVII													
	XVIII													
	XIX													

TABLE 5:58
 CIPOLLIANE: ATTRIBUTES OF THE DENTICULATES (F-J)
 (see Table 5:56 for key)

	F			G		H	I		J
	1	2	3	1	2	1	1	2	1
1	5	1		5	1	1		1	1
2	I								
	II								
	III	1		1					
	IV								
	V								
	VI								
	VII								
	VIII								
3	I	1		1					
	II								
	III								
	IV	2		2					
	V	2		3					
	VI	4	3	7					
	VII		1	1					
	VIII								
	IX								
4	I	2		1	1	1	1		1
	II	2		2					
	III	2		2					
	IV		1	1					
	V	1		1					
	VI								
	VII								
	VIII								
	IX								
	X								
	XI		1	1					
	XII								
	XIII								
	XIV								
	XV								
	XVI								
	XVII								
	XVIII								
	XIX								

TABLE 5:59
 ATTRIBUTES OF THE POINTS

A. TYPE OF BLANK		
A1-flake	A2-bladelet	A3-blade
B. SIZE OF THE BLANK		
B1-small	B2-medium	B3-large
C. CROSS-SECTION OF THE BLANK		
C1-flat	C2-carinated	
D. LATERALIZATION OF THE RETOUCH		
D1-sinister lateral	D2-dexter lateral	D3-bilateral
E. ANGLE OF THE RETOUCH		
E1-simple	E2-abrupt	E3-flat
F. AMPLITUDE OF THE RETOUCH		
F1-marginal	F2-invasive	F3-total
G. DIRECTION OF THE RETOUCH		
G1-direct	G2-inverse	G3-alternate

TABLE 5:60
 CIPOLLIANE: ATTRIBUTES OF THE POINTS (A-D)
 (see Table 5:59 for key)

	A			B			C		D		
	1	2	3	1	2	3	1	2	1	2	3
1	2	5		1	6		6	1		2	5
2	I										
	II										
	III										
	IV										
	V	1			1			1			1
	VI	1			1		1		1		
	VII		1		1			1			1
	VIII		2		2		2				2
3	I										
	II	1			1		1			1	
	III										
	IV										
	V										
	VI										
	VII										
	VIII	1			1		1			1	
	IX										
	I		2		2		1	1			2
	II	2	1		2	1	3		1	1	1
	III		1		1		1		1		
	IV										
	V		1		1		1				1
	VI										
	VII										
4	VIII										
	IX										
	X										
	XI										
	XII										
	XIII										
	XIV										
	XV										
	XVI										
	XVII										
	XVIII										
	XIX										

TABLE 5:61
 CIPOLLIANE: ATTRIBUTES OF THE POINTS (E-G)
 (see Table 5:59 for key)

	E			F			G	
	1	2	3	1	2	3	1	2
1	5		2		5	2	7	
2	I							
	II							
	III							
	IV							
	V	1			1		1	
	VI					1		1
	VII	1			1		1	
	VIII	2			2		2	
3	I							
	II					1		1
	III							
	IV							
	V							
	VI							
	VII							
	VIII					1	1	
	IX							
4	I	2		1	1		2	
	II	1			1	2	1	2
	III					1		1
	IV							
	V	1			1		1	
	VI							
	VII							
	VIII							
	IX							
	X							
	XI							
	XII							
	XIII							
	XIV							
	XV							
	XVI							
	XVII							
	XVIII							
	XIX							

TABLE 5:62
ATTRIBUTES OF THE TRUNCATIONS

A. TYPE OF BLANK			
A1-flake	A2-bladelet	A3-blade	
B. SIZE OF THE BLANK			
B1-small	B2-medium	B3-large	
C. ANGLE OF THE TRUNCATION			
C1-right-angle	C2-oblique		
D. MORPHOLOGY OF THE TRUNCATION			
D1-straight	D2-concave	D3-chevron	
E. ANGLE OF THE TRUNCATION RETOUCH			
E1-abrupt	E2-simple		
F. AMPLITUDE OF THE TRUNCATION RETOUCH			
F1-marginal	F2-invasive		
G. DIRECTION OF THE TRUNCATION RETOUCH			
G1-direct	G2-inverse		
H. LATERALIZATION OF THE SECONDARY RETOUCH			
H1-absent	H2-sinister lateral	H3-dexter lateral	H4-bilateral
I. ANGLE OF THE SECONDARY RETOUCH			
I1-simple	I2-abrupt		
J. AMPLITUDE OF THE SECONDARY RETOUCH			
J1-marginal	J2-invasive		
K. DIRECTION OF THE SECONDARY RETOUCH			
K1-direct	K2-inverse	K3-alternate	K4-bifacial

TABLE 5:63
 CIPOLLIANE: ATTRIBUTES OF THE TRUNCATIONS (A-E)
 (see Table 5:62 for key)

	A			B			C		D			E	
	1	2	3	1	2	3	1	2	1	2	3	1	2
1	2	1		1	2		1	2	2		1	3	
2	I												
	II												
	III												
	IV												
	V	1			1		1		1			1	
	VI												
	VII		1		1			1	1			1	
	VIII												
3	I												
	II	1	1			2	2		1	1		2	
	III		1		1		1		1			1	
	IV	1	2		1	1	1	2	3			3	
	V												
	VI												
	VII												
	VIII		1		1		1		1			1	
	IX												
	I		1		1			1		1		1	
	II		1	1		1	1	1	2			2	
	III												
	IV												
	V												
	VI												
	VII												
4	VIII												
	IX												
	X												
	XI												
	XII												
	XIII												
	XIV												
	XV												
	XVI												
	XVII												
	XVIII												
	XIX												

TABLE 5:64
 CIPOLLIANE: ATTRIBUTES OF THE TRUNCATIONS (F-K)
 (see Table 5:62 for key)

	F		G		H				I	J	K
	1	2	1	2	1	2	3	4	1	1	1
1	1	2	3		3						
2	I										
	II										
	III										
	IV										
	V	1		1	1						
	VI										
	VII		1	1	1						
	VIII										
3	I										
	II		2	2	2						
	III		1	1	1						
	IV	1	2	3		1	1		1	2	2
	V										
	VI										
	VII										
	VIII		1	1	1						
	IX										
4	I		1	1			1		1	1	1
	II	1	1	2		2					
	III										
	IV										
	V										
	VI										
	VII										
	VIII										
	IX										
	X										
	XI										
	XII										
	XIII										
	XIV										
	XV										
	XVI										
	XVII										
	XVIII										
	XIX										

TABLE 5:65
CIPOLLIANE: COVARIATION BETWEEN TRUNCATION ANGLE AND BLANK
TYPE

	Right-angle			Oblique		
	Flake	Bladelet	Blade	Flake	Bladelet	Blade
1	1	-	-	1	1	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	-	-	-	-	-	-
2V	1	-	-	-	-	-
2VI	-	-	-	-	-	-
2VII	-	-	-	-	1	-
2VIII	-	-	-	-	-	-
3I	-	-	-	-	-	-
3II	1	1	-	-	-	-
3III	-	1	-	-	-	-
3IV	1	-	-	-	2	-
3V	-	-	-	-	-	-
3VI	-	-	-	-	-	-
3VII	-	-	-	-	-	-
3VIII	-	1	-	-	-	-
3IX	-	-	-	-	-	-
4I	-	-	-	-	1	-
4II	-	-	1	-	1	-
4III	-	-	-	-	-	-
4IV	-	-	-	-	-	-
4V	-	-	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	4	3	1	1	6	

TABLE 5:66
CIPOLLIANE: COVARIATION BETWEEN TRUNCATION ANGLE AND BLANK
SIZE

	Right-angle			Oblique		
	<2.5	2.5-5.0	>5.0	<2.5	2.5-5.0	>5.0
1	1	-	-	-	2	-
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	-	-	-	-	-	-
2IV	-	-	-	-	-	-
2V	-	1	-	-	-	-
2VI	-	-	-	-	-	-
2VII	-	-	-	-	-	-
2VIII	-	-	-	1	-	-
3I	-	-	-	-	-	-
3II	-	2	-	-	-	-
3III	1	-	-	-	-	-
3IV	-	-	1	1	1	-
3V	-	-	-	-	-	-
3VI	-	-	-	-	-	-
3VII	-	-	-	-	-	-
3VIII	1	-	-	-	-	-
3IX	-	-	-	-	-	-
4I	-	-	-	1	-	-
4II	-	-	1	-	1	-
4III	-	-	-	-	-	-
4IV	-	-	-	-	-	-
4V	-	-	-	-	-	-
4VI	-	-	-	-	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	-	-	-	-
4X	-	-	-	-	-	-
4XI	-	-	-	-	-	-
Total	3	3	2	3	4	-

TABLE 5:67
ATTRIBUTES OF THE PERFORATORS

A. TYPE OF BLANK		
A1-flake	A2-bladelet	A3-blade
B. SIZE OF THE BLANK		
B1-small	B2-medium	B3-large
C. LOCATION OF THE PERFORATOR		
C1-proximal	C2-distal	
D. POSITION OF THE PERFORATOR		
D1-angle	D2-axial	
E. TECHNIQUE OF MANUFACTURE		
E1-truncation/retouch		E2-bilateral truncation
E3-bilateral retouch		E4-bilateral notch
E5-truncation/notch		E6-retouch/notch
F. ANGLE OF THE TRUNCATION		
F1-right-angle	F2-oblique	
G. MORPHOLOGY OF THE TRUNCATION		
G1-straight	G2-concave	
H. ANGLE OF THE RETOUCH		
H1-simple	H2-abrupt	
I. AMPLITUDE OF THE RETOUCH		
I1-marginal	I2-invasive	
J. DIRECTION OF THE RETOUCH		
J1-direct	J2-inverse	J3-alternate
K. LATERALIZATION OF THE SECONDARY RETOUCH		
K1-absent	K2-sinister lateral	K3-dexter lateral
L. ANGLE OF THE SECONDARY RETOUCH		
L1-simple	L2-abrupt	
M. AMPLITUDE OF THE SECONDARY RETOUCH		
M1-marginal	M2-invasive	
N. DIRECTION OF THE SECONDARY RETOUCH		
N1-direct	N2-inverse	

TABLE 5:68
CIPOLLIANE: ATTRIBUTES OF THE PERFORATORS (A-E)
(see Table 5:67 for key)

	A			B			C		D		E				
	1	2	3	1	2	3	1	2	1	2	1	2	3	4	5
1	2	2		1	3			4	1	3			2	1	1
2	I														
	II														
	III														
	IV														
	V														
	VI														
	VII														
	VIII	1				1	1		1			1			
3	I														
	II	3			3			3	1	2	1			2	
	III	1	2		2	1	1	2	2	1	2		1		
	IV														
	V	1				1		1	1		1				
	VI	1				1		1	1		1				
	VII	2			1	1		2	2		1	1			
	VIII														
	IX		1			1		1		1			1		
4	I														
	II	1				1		1	1		1				
	III														
	IV														
	V														
	VI														
	VII														
	VIII														
	IX														
	X														
	XI														
	XII														
	XIII														
	XIV														
	XV														
	XVI														
	XVII														
	XVIII														
	XIX														

TABLE 5:69
 CIPOLLIANE: ATTRIBUTES OF THE PERFORATORS (F-J)
 (see Table 5:67 for key)

		F		G		H		I		J	
		1	2	1	2	1	2	1	2	1	2
1		1		1		1	6		7	6	1
2	I										
	II										
	III										
	IV										
	V										
	VI										
	VII										
	VIII		2	2			2		2	1	1
3	I										
	II		1		1		3	1	2	2	1
	III	2		1	1	2	1	1	2	3	
	IV										
	V		1		1		1		1	1	
	VI	1		1			1		1	1	
	VII	1	2		3	1			1	1	
	VIII										
	IX					1	1	2		1	1
4	I										
	II	1			1		1		1		1
	III										
	IV										
	V										
	VI										
	VII										
	VIII										
	IX										
	X										
	XI										
	XII										
	XIII										
	XIV										
	XV										
	XVI										
	XVII										
	XVIII										
	XIX										

TABLE 5:70
 CIPOLLIANE: ATTRIBUTES OF THE PERFORATORS (K-N)
 (see Table 5:67 for key)

	K			L	M		N	
	1	2	3	1	1	2	1	2
1	3		1	1	1		1	
I								
II								
III								
2 IV								
V								
VI								
VII								
VIII	1							
I								
II	2		1	1	1		1	
III	3							
IV								
3 V	1							
VI			1	1	1			1
VII	2							
VIII								
IX		1		1	1		1	
I								
II	1							
III								
IV								
V								
VI								
VII								
VIII								
IX								
4 X								
XI								
XII								
XIII								
XIV								
XV								
XVI								
XVII								
XVIII								
XIX								

TABLE 5:71
ATTRIBUTES OF THE COMPOSITE TOOLS

A. TYPE OF BLANK		
A1-flake	A2-bladelet	A3-blade
B. SIZE OF THE BLANK		
B1-small	B2-medium	B3-large
C. TOOL CLASS COMBINATIONS		
C1-endscraper-perforator	C2-endscraper-truncation	
C3-burin-endscraper	C4-burin-truncation	
C5-burin-perforator	C6-burin-denticulate	
C7-endscraper-point	C8-truncation-notch	

TABLE 5:72
 CIPOLLIANE: ATTRIBUTES OF THE COMPOSITE TOOLS
 (see Table 5:71 for key)

	A			B			C					
	1	2	3	1	2	3	1	2	3	4	5	6
1												
I												
II												
III												
2 IV												
V		1			1			1				
VI												
VII												
VIII		1		1				1				
I		1		1				1				
II	2			2			1		1			
III	1			1					1			
IV	1	3		2	2				2	1	1	
3 V	1	1		2					1			1
VI	4			4				1	1		1	1
VII												
VIII												
IX		1			1				1			
I												
II												
III												
IV												
V												
VI												
VII												
VIII												
IX												
4 X												
XI												
XII												
XIII												
XIV												
XV												
XVI												
XVII												
XVIII												
XIX												

TABLE 5:73
CIPOLLIANE: TOOL BLANK TYPE

	Flake		Bladelet		Blade	
	n.	%	n.	%	n.	%
1	62	42	82	56	3	2
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	2	40	3	60	-	-
2IV	-	-	2	100	-	-
2V	2	40	3	60	-	-
2VI	4	57	3	43	-	-
2VII	-	-	3	100	-	-
2VIII	6	33	11	61	1	6
3I	14	27	38	73	-	-
3II	30	38	48	62	-	-
3III	18	33	37	67	-	-
3IV	19	42	26	58	-	-
3V	26	54	22	46	-	-
3VI	31	43	41	57	-	-
3VII	24	34	47	66	-	-
3VIII	2	17	9	75	1	8
3IX	2	29	5	71	-	-
4I	28	44	35	56	-	-
4II	20	42	26	54	2	4
4III	9	32	19	68	-	-
4IV	8	32	17	68	-	-
4V	4	29	10	71	-	-
4VI	-	-	1	100	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	2	100	-	-
4X	1	50	1	50	-	-
4XI	2	40	3	60	-	-
Total	314	38	494	61	7	1

TABLE 5:74
CIPOLLIANE: TOOL BLANK TYPE EXCLUDING BACKED BLADELETS

	Flake		Bladelet		Blade	
	n.	%	n.	%	n.	%
1	62	56	45	44	3	3
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	2	67	1	33	-	-
2IV	-	-	-	-	-	-
2V	2	67	1	33	-	-
2VI	4	80	1	20	-	-
2VII	-	-	2	100	-	-
2VIII	6	50	5	42	1	8
3I	14	58	10	42	-	-
3II	30	70	13	30	-	-
3III	18	58	13	42	-	-
3IV	19	59	13	41	-	-
3V	26	70	11	30	-	-
3VI	31	69	14	31	-	-
3VII	24	60	16	40	-	-
3VIII	2	22	6	67	1	11
3IX	2	50	2	50	-	-
4I	28	62	17	38	-	-
4II	20	61	11	33	2	6
4III	9	64	5	36	-	-
4IV	8	47	9	53	-	-
4V	4	50	4	50	-	-
4VI	-	-	1	100	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	1	100	-	-
4X	1	50	1	50	-	-
4XI	2	50	2	50	-	-
Total	314	60	204	39	7	1

TABLE 5:75
CIPOLLIANE: TOOL BLANK SIZE

	Small		Medium		Large	
	n.	%	n.	%	n.	%
1	99	62	57	34	3	2
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	4	80	1	20	-	-
2IV	2	100	-	-	-	-
2V	4	80	1	20	-	-
2VI	6	86	1	14	-	-
2VII	1	33	2	67	-	-
2VIII	7	37	9	47	3	16
3I	44	79	12	21	-	-
3II	69	84	13	16	-	-
3III	42	72	16	28	-	-
3IV	30	65	15	33	1	2
3V	33	69	15	31	-	-
3VI	56	75	19	25	-	-
3VII	49	66	25	34	-	-
3VIII	3	25	8	67	1	8
3IX	4	57	3	43	-	-
4I	43	68	20	32	-	-
4II	33	66	15	30	2	4
4III	18	62	11	38	-	-
4IV	16	64	9	36	-	-
4V	9	64	5	36	-	-
4VI	-	-	1	100	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	1	50	1	50	-	-
4X	1	50	1	50	-	-
4XI	3	60	2	40	-	-
Total	577	68	262	31	10	1

TABLE 5:76
CIPOLLIANE: TOOL BLANK SIZE EXCLUDING BACKED BLADELETS

	Small		Medium		Large	
	n.	%	n.	%	n.	%
1	62	56	45	41	3	2
2I	-	-	-	-	-	-
2II	-	-	-	-	-	-
2III	2	67	1	33	-	-
2IV	-	-	-	-	-	-
2V	2	67	1	33	-	-
2VI	4	80	1	20	-	-
2VII	-	-	2	100	-	-
2VIII	2	17	7	58	3	25
3I	15	63	9	27	-	-
3II	30	70	13	30	-	-
3III	19	61	12	39	-	-
3IV	20	63	11	34	1	3
3V	26	70	11	30	-	-
3VI	30	67	15	33	-	-
3VII	23	58	17	42	-	-
3VIII	2	22	6	67	1	11
3IX	2	50	2	50	-	-
4I	28	62	17	38	-	-
4II	19	58	12	36	2	6
4III	9	64	5	34	-	-
4IV	8	47	9	53	-	-
4V	4	50	4	50	-	-
4VI	-	-	1	100	-	-
4VII	-	-	-	-	-	-
4VIII	-	-	-	-	-	-
4IX	-	-	1	100	-	-
4X	1	50	1	50	-	-
4XI	2	50	2	50	-	-
Total	310	59	205	39	10	2

TABLE 5:77
CIPOLLIANE: DEBITAGE, CORES AND TOOLS FROM THE 1962 EXCAVATION

LEVEL	RETOUCHED TOOLS		UNRETOUCHED FLAKES		UNRETOUCHED BLADELETS/BLADES		REJUVENATION FLAKES		CORES	
	n.	%	n.	%	n.	%	n.	%	n.	%
1	335	16	1400	68	100	5	180	9	50	2
2 upper	52	16	224	68	12	4	26	8	13	4
2 lower	24	25	48	51	8	9	10	11	4	4
3	490	11	3100	70	300	7	450	10	100	2
4 upper	14	9	102	66	19	12	18	12	1	1
4 lower	14	24	36	61	5	8	4	7	-	-

TABLE 5:78
CIPOLLIANE: TOOL BREAKAGE

	Whole		Broken	
	n.	%	n.	%
1	87	55	72	45
2I	-	-	-	-
2II	-	-	-	-
2III	2	40	3	60
2IV	1	50	1	50
2V	3	60	2	40
2VI	4	57	3	43
2VII	3	100	-	-
2VIII	9	47	10	53
3I	42	75	14	25
3II	59	72	23	28
3III	41	71	17	29
3IV	40	87	6	13
3V	42	87	6	13
3VI	65	87	10	13
3VII	56	76	18	24
3VIII	4	33	8	67
3IX	4	57	3	43
4I	42	67	21	33
4II	30	60	20	40
4III	10	34	19	66
4IV	12	48	13	52
4V	6	43	8	57
4VI	-	-	1	100
4VII	-	-	-	-
4VIII	-	-	-	-
4IX	-	-	2	100
4X	1	50	1	50
4XI	3	60	2	40
Total	566	67	283	33

TABLE 6:1
TAURISANO: TOOL CLASSES

Class	23-13		12-6		5-1	
	n.	%	n.	%	n.	%
Burins	11	10	27	13	13	8
Endscrapers	10	9	15	7	31	18
Truncations	4	4	2	1	5	3
Perforators	1	1	4	2	3	2
Backed bladelets	28	25	47	22	23	14
Fgt. backed bladelets	12	11	22	10	16	9
Geometrics	1	1	-	-	-	-
Points	-	-	2	1	3	2
Linear retouched	34	31	83	39	55	33
Notches	8	7	4	2	10	6
Denticulates	2	2	4	2	7	4
Composite Tools	-	-	2	1	1	1
Total	111		212		167	

TABLE 6:2
 TAURISANO: ATTRIBUTES OF THE BACKED BLADELETS (A-D)
 (see Table 5:6 for key)

	A			B				C			D		
	1	2	3	1	2	3	4	1	2	3	1	2	3
1	7	1		4	3	1		3	4	1	6	2	
2	5	2		5		1	1	3	4		5	2	
3	1	2		3				1	1	1	1	2	
4	6	1		1	3	2	1	3	3	1	7		
5	8			4	2	2		4	2	2	6	2	
6	13	4		16			1	11	6		9	3	5
7	12	2		8	1		5	7	7		9	1	4
8	9	1		4	1	2	3	4	5	1	6	3	1
9	6	3		7			2	5	4		4	2	3
10	5			3			2	2	3		3		2
11	3			2		1		1	2		2	1	
12		1					1		1				1
13													
14		2		2				2			2		
15	1				1				1				1
16	5	1		3	1	1	1	3	3		4		2
17	2						2		2				2
18	1	1			1		1	1	1				2
19	4			1	2	1		1	3		1	2	1
20	8			3	2	3		4	2	2	6	1	1
21	6			1	1	2	2	4	2		5	1	
22		1				1		1					1
23	1	2		2			1	1	2		1		2
24													
25													
26													
27													

TABLE 6:3
 TAURISANO: ATTRIBUTES OF THE BACKED BLADELETS (E-G)
 (see Table 5:6 for key)

	E				F		G					
	1	2	3	4	1	2	1	2	3	4	5	6
1	5			3	2	6	2	4	1			1
2	5		1	1	1	6	3	2				2
3	2			1		3	2	1				
4	4		1	2	1	6		3	1			3
5	7			1	3	5	1	3		2		2
6	11		4	2	7	10	5	11				1
7	11		1	2	7	7	4	5				5
8	9		1		7	3	3	2				5
9	8			1	2	7	4	3				2
10	4			1	2	3		3				2
11	2		1		2	1	1	1				1
12				1		1						1
13												
14			2			2	1	1				
15	1					1		1				
16	4			2		6	2	2				2
17	1			1		2						2
18	2					2		1				1
19	3			1		4		3				1
20	7		1		2	6	1	4				3
21	5			1	2	4	2					4
22	1					1						1
23	3					3		1	1			1
24												
25												
26												
27												

TABLE 6:4
 TAURISANO: ATTRIBUTES OF THE BACKED BLADELETS (H-L)
 (see Table 5:6 for key)

	H						I		J		K		L	
	1	2	3	4	5	6	1	2	1	2	1	2	1	2
1		4				4	1		1		1			8
2		6				1			1					7
3	1	2									2			3
4		2				5	1							7
5		4				4	2							8
6		16	1				1		1				5	12
7	1	12				1			3		1	1	4	10
8		7				3			1	1	1	1		10
9		9							3		1		2	7
10		5									1		1	4
11		1		1		1	1		1		1		1	2
12		1											1	
13														
14		2							1		2		1	1
15						1							1	
16	1	2		1		2	1		3		1		1	5
17		2							2				2	
18		1				1							2	
19		1				3			2				1	3
20		3				5					1		1	7
21		3				3			1		1			6
22						1							1	
23		3					1		1				1	2
24														
25														
26														
27														

TABLE 6:5
 TAURISANO: ATTRIBUTES OF THE BACKED BLADELETS (M-P)
 (see Table 5:6 for key)

	M				N			O		P			
	1	2	3	4	1	2	3	1	2	1	2	3	4
1	6	1	1		1	1		2		1	1		
2	3	1	2	1	4			3	1	4			
3	2		1		1				1	1			
4	6		1		1			1		1			
5	8												
6	16			1		1		1		1			
7	9	3	2		4	1		3	2	4	1		
8	10												
9	7	2			2				2	2			
10	4	1			1				1	1			
11	3												
12	1												
13													
14	1		1		1				1	1			
15				1	1			1		1			
16	5	1			1			1			1		
17	1		1		1			1			1		
18	2												
19	2	2			2			2		2			
20	6		1	1	2			2		2			
21	5		1		1				1	1			
22	1												
23	3												
24													
25													
26													
27													

TABLE 6:6
UGENTO: TOOL CLASSES

Class	BOCCA CESIRA		POZZO ZECCA	
	n.	%	n.	%
Burins	7	7	30	9
Endscrapers	12	11	34	10
Truncations	5	5	4	1
Perforators	1	1	-	-
Backed bladelets	31	30	96	28
Fgt. backed bladelets	6	6	72	21
Geometrics	-	-	-	-
Points	2	2	12	3
Linear retouched	26	25	75	22
Notches	11	10	10	3
Denticulates	1	1	6	2
Composite Tools	2	2	2	1
Total	104		341	

TABLE 6:7
GROTTA ROMANELLI: TOOL CLASSES

Class	E-D		C		B-A	
	n.	%	n.	%	n.	%
Burins	40	10	77	11	25	13
Endscrapers	99	25	179	26	64	33
Truncations	8	2	30	4	3	1
Perforators	6	1	11	2	-	-
Backed bladelets	70	18	115	16	44	23
Fgt. backed bladelets	18	5	39	6	7	4
Geometrics	2	1	7	1	1	1
Points	58	15	75	11	13	7
Linear retouched	80	20	142	20	26	13
Notches	5	1	6	1	6	3
Denticulates	5	1	10	1	3	1
Composite Tools	6	1	10	1	3	1
Total	397		701		195	

TABLE 6:8
GROTTA DEL CAVALLO: TOOL CLASSES

Class	BI Ib		BI Ia		BI	
	n.	%	n.	%	n.	%
Burins	39	7	7	2	6	3
Endscrapers	41	7	34	12	34	18
Truncations	11	2	8	3	5	3
Perforators	5	1	2	1	1	1
Backed bladelets	144	24	53	20	25	13
Fgt. backed bladelets	117	20	48	18	33	17
Geometrics	2	-	2	1	4	2
Points	19	3	6	2	5	3
Linear retouched	156	26	73	27	42	22
Notches	38	6	26	10	15	8
Denticulates	15	3	10	4	18	10
Composite Tools	2	-	1	-	-	-
Total	589		270		188	

TABLE 6:9
GROTTA DI ULUZZO: TOOL CLASSES

Class	I		G		lower F		upper F		E	
	n.	%	n.	%	n.	%	n.	%	n.	%
Burins	7	4	5	3	4	7	5	8	-	-
Endscrapers	14	7	29	18	14	24	20	32	13	39
Truncations	10	5	3	2	-	-	1	2	-	-
Perforators	-	-	2	1	1	2	-	-	-	-
Backed bladelets	30	16	54	34	20	34	13	21	2	6
Geometrics	1	1	4	2	2	3	-	-	-	-
Points	7	4	5	3	1	2	1	2	-	-
Linear retouched	46	25	39	24	7	12	7	11	18	55
Notches/Denticulates	70	38	20	12	9	16	16	25	-	-
Composite Tools	-	-	-	-	-	-	-	-	-	-
Total	185		161		58		63		33	

TABLE 6:10
GROTTA CARLO COSMA: TOOL CLASSES

Class	level A	
	n.	%
Burins	8	13
Endscrapers	11	18
Truncations	-	-
Perforators	-	-
Backed bladelets	4	7
Geometrics	-	-
Points	-	-
Linear retouched	11	18
Denticulates	26	43
Composite Tools	-	-
Total	60	

TABLE 6:11
GROTTA DELLE PRAZZICHE: TOOL CLASSES

Class	Level C	
	n.	%
Burins	-	-
Endscrapers	10	17
Truncations	1	2
Perforators	1	2
Backed bladelets	10	17
Geometrics	-	-
Points	1	2
Linear retouched	28	48
Notches	-	-
Denticulates	5	9
Composite Tools	2	33
Total	58	

TABLE 6:12
 DEBITAGE, CORES AND TOOLS FROM SELECTED SITES IN THE
 SALENTO PENINSULA

Site	% Retouched tools	% Unretouched flakes/bladelets	% Rejuvenation flakes	% Cores
PALIDORO	12 - 22	63 - 84	3 - 6	1 - 9
POLESINI	4 - 8	90 - 96	1	1
TAURISANO	0 - 20	68 - 86	7 - 13	1 - 5
CIPOLLIANE	9 - 25	60 - 78	7 - 11	1 - 4
PRAZZICHE	15	79	?	6
C. COSMA	15	74	?	1
ULUZZO	0 - 13	84 - 100	?	1 - 3
ALIMINI	12	81	5	2

TABLE 6:13
GROTTA DELLE MURA: TOOL CLASSES

Class	G		F-D	
	n.	%	n.	%
Burins	10	7	8	5
Endscrapers	21	14	40	27
Truncations	2	1	3	2
Perforators	2	1	2	1
Backed bladelets	13	9	13	9
Fgt. backed bladelets	1	1	-	-
Geometrics	-	-	-	-
Points	10	7	6	4
Linear retouched	71	48	64	43
Notches	13	9	5	3
Denticulates	4	3	6	4
Composite Tools	2	1	3	2
Total	149		150	

TABLE 6:14
GROTTA SANTA CROCE: TOOL CLASSES

Class	n.	%
Burins	26	17
Endscrapers	38	25
Truncations	5	3
Perforators	1	1
Backed bladelets	6	4
Fgt. backed bladelets	13	9
Geometrics	4	3
Points	13	9
Linear retouched	25	17
Notches	9	6
Denticulates	9	6
Composite Tools	1	1
Total	150	

TABLE 6:15
GROTTA PAGLICCI: TOOL CLASSES IN LEVELS 17-12

Class	17		16		15		14		13		12	
	n.	%	n.	%	n.	%	n.	%	n.	%	n.	%
Burins	16	6	19	12	52	18	17	13	7	8	15	9
Endscrapers	21	8	16	10	32	11	26	19	18	20	18	11
Truncations	8	3	4	2	11	4	7	5	7	8	9	6
Perforators	4	2	1	1	3	1	1	1	1	1	-	-
Backed bladelets	86	34	85	52	113	38	41	31	30	33	69	44
Geometrics	-	-	-	-	-	-	1	1	-	-	1	1
Points	35	14	8	5	6	2	5	4	1	1	1	1
Linear retouched	69	27	26	16	60	20	24	18	23	26	33	21
Notches	5	2	2	1	10	3	9	7	1	1	8	5
Denticulates	9	4	1	1	8	3	2	1	2	2	4	2
Total	253		162		295		133		90		158	

TABLE 6:16
GROTTA PAGLICCI: TOOL CLASSES IN LEVELS 9-5

Class	9		8		7		6		5	
	n.	%	n.	%	n.	%	n.	%	n.	%
Burins	101	12	121	13	76	9	54	6	43	5
Endscrapers	133	16	188	20	181	22	186	20	204	22
Truncations	27	3	38	4	29	3	34	4	70	7
Perforators	4	-	6	1	8	1	11	1	6	1
Backed bladelets	225	27	269	29	294	35	279	30	283	30
Geometrics	2	-	2	-	1	-	1	-	1	-
Points	40	5	22	2	44	5	43	5	52	5
Linear retouched	237	29	232	25	169	20	255	28	239	25
Notches	27	3	30	3	17	2	31	3	18	2
Denticulates	25	3	30	3	22	3	33	3	26	3
Total	821		938		841		927		942	

TABLE 6:17
GROTTA PAGLICCI: TOOL CLASSES IN LEVELS 4-1

Class	4		3		2		1	
	n.	%	n.	%	n.	%	n.	%
Burins	103	8	76	17	34	16	8	11
Endscrapers	215	17	62	14	30	15	14	19
Truncations	126	10	41	9	22	10	5	7
Perforators	21	2	10	2	7	3	4	5
Backed bladelets	374	30	100	22	40	19	14	19
Geometrics	2	-	7	1	2	1	-	-
Points	30	2	14	3	4	2	6	8
Linear retouched	305	24	95	21	33	16	14	19
Notches	36	3	17	4	7	3	5	7
Denticulates	36	3	32	7	31	15	5	7
Total	1248		454		210		75	

TABLE 6:18
PAGLICCI 7-4: ABSOLUTE FREQUENCIES OF THE TOOL CLASSES

	BUR	END	BBL	TRU	NOT	DEN	LIN	POI	BEC	COM	GEO	Total
4a	1	2	8	4		1	7				3	26
4b	6	9	26	6	12	3	23				5	90
5a	6	9	36	12	8	4	53	4	3	6	7	148
5b	2	6	21	11	3	2	43	3	1	1	1	94
5c	3	13	62	19	5	3	75	5	3	1	1	190
6a	1	8	31	15	3		52	3	2	1	1	117
6c			5				2	1				8
6d		2	10			2	12	2		1		29
7a	1	6	17		1	2	10	2	1		1	41
7b		1	17	3		1	7			1		30
7c	10	1	41	8	3	1	30	1	1	1		97
Total	30	57	274	78	35	19	314	21	11	12	19	870

TABLE 6:19
PAGLICCI 7-4: RELATIVE FREQUENCIES OF THE TOOL CLASSES

	BUR	END	BBL	TRU	NOT	DEN	LIN	POI	BEC	COM	GEO
4a	4	8	31	15		4	27				11
4b	7	10	29	7	13	3	26				5
5a	4	6	24	8	5	3	36	3	2	4	5
5b	2	6	22	12	3	2	46	3	1	1	1
5c	1	7	33	10	3	1	40	3	1	1	1
6a	1	7	26	13	3		44	3	2	1	1
6c			63				25	12			
6d		7	34			7	41	7		3	
7a	2	15	41		2	5	24	5	2		2
7b		3	57	10		3	23			3	
7c	10	1	42	8	3	1	31	1	1	1	

TABLE 6:20
PAGLICCI 7-4: ATTRIBUTES OF THE BACKED BLADELETS (A-G)
(see Table 5:6 for key)

	A			B				C			D		
	1	2	3	1	2	3	4	1	2	3	1	2	3
4a	5	3		2	2	3	1	3	4	1	3	5	
4b	24	2		4	8	5	9	13	12	1	13	13	
5a	25	11		7	9	8	12	18	17	1	9	27	
5b	13	7	1	6	3	9	3	9	12		4	17	
5c	52	10		8	14	31	9	30	31	1	43	19	
6a	22	9		5	10	10	6	12	19		19	12	
6c	4	1		1	1	2	1	2	3		4	1	
6d	7	3		2	1	6	1	4	6		4	6	
7a	10	7		4		7	6	10	7		14	3	
7b	15	2		2	4	8	3	5	10	2	9	8	
7c	29	11	1	2	7	15	17	23	17	1	26	15	

	E				F		G					
	1	2	3	4	1	2	1	2	3	4	5	6
4a	7			1		8	2	2				4
4b	18		1	7		26	3	7	1	1		14
5a	31	2		3	2	34	4	9	3			20
5b	15	3	1	2		21	2	7				12
5c	43	1	2	16	5	57	4	16	2			40
6a	21	2	2	6	1	30	1	12	2			16
6c	5					5		2				3
6d	8			2		10	1	2				7
7a	14		1	2	2	15	1	8		1		7
7b	14			3	4	13	1	5				11
7c	38		1	2	3	38		8	1			32

TABLE 6:21
PAGLICCI 7-4: ATTRIBUTES OF THE BACKED BLADELETS (H-P)
(see Table 5:6 for key)

	H						I		J		K		L	
	1	2	3	4	5	6	1	2	1	2	1	2	1	2
4a	1	2				5								8
4b	3	9		1		13		1	1		1		1	25
5a	2	14	3			17	5	1	3				5	31
5b		6	3			12	1	2	2				2	19
5c	1	16				45	2		2		1		6	56
6a	1	10				20	1	1			1	1	5	26
6c		2				3								5
6d	1	2				7								10
7a		4				13	1						1	16
7b		5				12							3	14
7c	1	16	2			22	3						10	31

	M				N			O		P			
	1	2	3	4	1	2	3	1	2	1	2	3	4
4a	3	1	3	1	5			4	1	4		1	
4b	7	7	8	4	18	1		17	1	9	5	3	1
5a	5	18	9	4	31			25	6	18	11	2	
5b	4	9	5	3	16	1		16	1	10	2	4	1
5c	8	28	18	8	52	1	1	43	11	23	23	6	2
6a	2	13	10	6	23	6		24	5	15	7	5	2
6c	1	3	1		3	1		4		4			
6d	1	6	2	1	8	1		9		3	2	3	1
7a	3	8	3	3	13	1		14		6	2	5	1
7b	6	5	4	2	10	1		10	1	4	5	2	
7c	9	22	6	4	29	3		30	2	16	10	6	

TABLE 6:22
PAGLICCI 7-4: ATTRIBUTES OF THE LINEAR RETOUCED TOOLS (A-H)
(see Table 5:28 for key)

	A			B			C				D	
	1	2	3	1	2	3	1	2	3	4	1	2
4a	3	4		5	2		2	1	2	2	6	1
4b	8	7	8	6	9	8	4	8	6	5	20	3
5a	22	25	6	13	32	8	12	13	18	10	48	5
5b	16	19	8	10	25	8	14	14	6	9	38	5
5c	25	41	9	15	48	12	19	24	26	6	67	8
6a	22	20	10	20	20	12	18	9	19	6	46	6
6c	1	1			2		1	1			2	
6d	7	5		8	4		6	3	1	2	12	
7a	6	1	3	2	4	4	2	2	4	2	9	1
7b	1	5	1	3	3	1	3	2	2		7	
7c	15	11	4	12	14	4	7	4	12	7	28	2

	E			F		G		H		
	1	2	3	1	2	1	2	1	2	3
4a	4			3	1	3	1	4		
4b	2	7	1	9	1	9	1	8	1	1
5a	9	19	2	29	1	28	2	16	5	9
5b	4	16		20		16	4	14	1	5
5c	22	22	1	43	2	42	3	30	3	12
6a	8	26	3	35	2	36	1	27		10
6c		1		1		1			1	
6d	4	3		7		3	4	4	2	1
7a	2	4		6		5	1	4		2
7b	2	3		4	1	4	1	2	2	1
7c	7	11	1	19		19		13	3	3

TABLE 6:23
PAGLICCI 7-4: ATTRIBUTES OF THE LINEAR RETOUCHEE TOOLS (I-P)
(see Table 5:28 for key)

	I			J		K		L		
	1	2	3	1	2	1	2	1	2	3
4a	2	1		3		2	1	1	2	
4b	6	7	1	13	1	14		11	1	2
5a	12	17	2	31		30	1	21	1	9
5b	7	13		20		17	3	16	1	3
5c	22	26	2	49	1	49	1	34	5	11
6a	9	18	1	28		24	4	21		7
6c	1			1		1		1		
6d	3	1		4		3	1	4		
7a	2	4		6		5	1	5		1
7b	1	3		4		4		2	1	1
7c	2	12	2	16		16		9	1	6

	M			N		O		P		
	1	2	3	1	2	1	2	1	2	3
4a	1		1	1	1	2		1		1
4b	5			3	2	5		5		
5a	8	1	1	7	3	9	1	7	1	2
5b	8	1		6	3	7	2	7	2	
5c	5		1	4	2	6		4	2	
6a	4	2		5	1	6		4		2
6c										
6d	1	1		2		2		1	1	
7a	1	1		1	1	2		2		
7b										
7c	6	1		4	3	7		7		

TABLE 6:24
PAGLICCI 7-4: ATTRIBUTES OF THE BURINS (A-H)
(see Table 5:33 for key)

	A			B			C			D			E		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
4a	1				1			1		1					
4b	4	1	1	3	2	1		4	2	3	2	1	2		
5a	4	2		1	5		1	2	3	5			3	1	
5b	2				2			1	1	2			1		
5c	1	1	1	1	1	1	1	1	1	2			2		
6a			1			1		1		1					
6c															
6d															
7a	1				1				1	1			1		
7b															
7c	5	3	2	1	6	3	2	6	2	7		1	4		

	F											G		H		
	1	2	3	4	5	6	7	8	9	10	11	1	2	1	2	3
4a		1											1			1
4b	4	1	1										6	3		3
5a	1	2	1		1								5	3		2
5b	1		1										2			2
5c	2												2	1		1
6a	1												1	1		
6c																
6d																
7a							1						1			1
7b																
7c	3	2	1			2							8	6		2

TABLE 6:25
PAGLICCI 7-4: ATTRIBUTES OF THE BURINS (I-O)
(see Table 5:33 for key)

	I											J		K		
	1	2	3	4	5	6	7	8	9	10	11	1	2	1	2	3
4a																
4b		1	1										2			2
5a		1	2			1							4	3		1
5b					1								1	1		
5c	1	1											2	1		1
6a																
6c																
6d																
7a	1												1	1		
7b																
7c	2	1	1									1	3	1	1	2

	L				M				N		O		
	1	2	3	4	1	2	3	4	1	2	1	2	3
4a	1												
4b	3	1	2		3				2	1	2	1	
5a	1	1	4		4	1			4	1	3	1	1
5b	2												
5c	2		1		1				1				1
6a			1		1				1				1
6c													
6d													
7a	1												
7b													
7c	3	3	4		6			1	5	2	5	2	

TABLE 6:26
PAGLICCI 7-4: ATTRIBUTES OF THE ENDSCRAPERS
(see Table 5:48 for key)

	A			B			C		D			E				
	1	2	3	1	2	3	1	2	1	2	3	1	2	3	4	5
4a	1	1		1	1		2		2			2				
4b	8	1		3	6		8	1	8	1		8		1		
5a	7	2		3	6		8	1	9			5	3	1		
5b	6			2	4		6		5	1		6				
5c	11	2		3	8	2	13		12	1		10	1	2		
6a	7	1		4	4		8		6	2		7	1			
6c																
6d	2			1	1		2		2			2				
7a	3	2	1	2	3	1	6		5	1		6				
7b	1			1			1		1			1				
7c	1				1		1			1			1			

	F		G		H					I			J		K		
	1	2	1	2	1	2	3	4	5	1	2	3	1	2	1	2	3
4a		2					2			2			2			1	1
4b	8	1	1		3	3	3			6			6		1	2	3
5a	5	1	4			3	5	1		9			6	3	7		2
5b	6					2	2	2		5	1		3	3	6		
5c	9	3	2	1	2	3	5	3		11			9	2	9		2
6a	6	1	1		2	3	3			6			5	1	4		2
6c																	
6d	2					1	1			2			1	1	2		
7a	5	1			1	1	3	1		5			4	1	5		
7b	1						1			1			1		1		
7c			1			1				1			1				1

TABLE 6:27
PAGLICCI 7-4: ATTRIBUTES OF THE NOTCHES
(see Table 5:53 for key)

	A			B			C				D		E		F	
	1	2	3	1	2	3	1	2	3	4	1	2	1	2	1	2
4a																
4b	11	1		7	5		3	5		4	10	2	5	7	10	2
5a	8			3	5		1	6		1	7	1	4	4	6	2
5b	2	1		3			1	2			2	1	2	1	3	
5c	4	1		3	2		2	2		1	5		2	3	5	
6a	2		1	1	1	1	1	2			3		3		2	1
6c																
6d																
7a	1			1						1	1		1		1	
7b																
7c	3			1	1	1				3	2	1	3		2	1

	G				H		I		J		
	1	2	3	4	1	2	1	2	1	2	3
4a											
4b	4	6		2	7	1	7	1	6	2	
5a	3	2	2	1	5		5		1	2	2
5b		2		1	3		3		3		
5c	2	1		2	3		3		2		1
6a		1	1	1	3		3				3
6c											
6d											
7a	1										
7b											
7c		3			3		3		1		2

TABLE 6:28
PAGLICCI 7-4: ATTRIBUTES OF THE DENTICULATES
(see Table 5:56 for key)

	A			B			C				D		E	
	1	2	3	1	2	3	1	2	3	4	1	2	1	2
4a		1			1			1			1			1
4b	2	1		2	1		1			2	3		1	2
5a	1	3		2	2		3	1			4		3	1
5b	2			1	1		2				2		2	
5c	2	1		1	2		1	1		1	2	1	2	1
6a														
6c														
6d	2			2			2				2		2	
7a	1	1		2				1	1		2		1	1
7b	1				1		1				1		1	
7c	1			1						1	1			1

	F			G		H	I		J		
	1	2	3	1	2	1	1	2	1	2	3
4a	1				1	1	1			1	
4b	3			2	1	1	1			1	
5a	2	1	1	1	3	3	3		2	1	
5b	2				2	2	2		1	1	
5c	2	1			3	3	3		1		2
6a											
6c											
6d	1		1	1	1	1	1			1	
7a	2			1	1	1		1			1
7b	1			1							
7c	1			1							

TABLE 6:29
PAGLICCI 7-4: ATTRIBUTES OF THE POINTS
(see Table 5:59 for key)

	A			B			C		D		
	1	2	3	1	2	3	1	2	1	2	3
4a											
4b											
5a		3	1	1	2	1	4		1	1	2
5b		2	1		2	1	3			1	2
5c		3	2	2	1	2	5		1	1	3
6a	1	1	1		2	1	3		1	1	1
6c	1				1		1		1		
6d		1	1		1	1		2			2
7a	1		1	1		1	2		1		1
7b											
7c		1		1			1		1		

	E			F			G		
	1	2	3	1	2	3	1	2	3
4a									
4b									
5a	4			3	1		1	1	2
5b	3			1	2		3		
5c	4		1	2	2	1	4	1	
6a	2		1	1	1	1	2		1
6c			1			1	1		
6d	2				2		2		
7a	2				2		2		
7b									
7c			1			1	1		

TABLE 6:30
PAGLICCI 7-4: ATTRIBUTES OF THE TRUNCATIONS
(see Table 5:62 for key)

	A			B			C		D			E	
	1	2	3	1	2	3	1	2	1	2	3	1	2
4a		4		2	2		2	2	4			4	
4b	2	4		4	2		5	1	6			1	5
5a	6	6		7	5		9	3	10	1	1	6	6
5b	3	7	1	1	9	1	9	2	10		1	10	1
5c	7	9	3	10	6	3	14	5	14	5		8	11
6a	8	6	1	9	5	1	12	3	15			11	4
6c													
6d													
7a													
7b	2	1		3			3		2	1		2	1
7c	6	2		3	5		8		8			4	4

	F		G		H				I		J		K			
	1	2	1	2	1	2	3	4	1	2	1	2	1	2	3	4
4a	1	3	4			1	3		4		4		3			1
4b	2	4	4	2	3		1	2	3		3		1		2	
5a	6	6	9	3	2	4	6		10		10		6	2	2	
5b	8	3	11			4	7		11		10	1	7		4	
5c	12	7	16	3	2	14	1	2	17		14	3	13	2	2	
6a	10	5	10	5	5		9	1	8	1	7	2	5	3	2	
6c																
6d																
7a																
7b	2	1	3			3			2	1	1	2	3			
7c	7	1	6	2	1	3	4		6	1	7		4	1	2	

TABLE 6:31
PAGLICCI 7-4: ATTRIBUTES OF THE PERFORATORS (A-J)
(see Table 5:67 for key)

	A			B			C		D		E					
	1	2	3	1	2	3	1	2	1	2	1	2	3	4	5	6
4a																
4b																
5a		3		2	1		3		1	2	1		2			
5b		1			1			1	1							1
5c		3		2	1			3	1	2			2			1
6a			2			2		2	1	1	1					1
6c																
6d																
7a			1			1		1	1				1			
7b																
7c		1		1			1		1							1

	F		G		H		I		J		
	1	2	1	2	1	2	1	2	1	2	3
4a											
4b											
5a		1	1		1	2	1	2	3		
5b					1			1	1		
5c						3		3	3		
6a	1		1		1	1	1	1	2		
6c											
6d											
7a					1			1	1		
7b											
7c						1		1			1

TABLE 6:32
PAGLICCI 7-4: ATTRIBUTES OF THE PERFORATORS (K-N)
(see Table 5:67 for key)

	K			L		M		N		
	1	2	3	1	2	1	2	1	2	3
4a										
4b										
5a	2	1		1		1		1		
5b			1	1		1				1
5c	2		1		1		1	1		
6a		1	1	2		2				2
6c										
6d										
7a			1	1		1		1		
7b										
7c		1		1		1				1

TABLE 6:33
PAGLICCI 7-4: ATTRIBUTES OF THE COMPOSITE TOOLS
(see Table 5:71 for key)

	A			B			C							
	1	2	3	1	2	3	1	2	3	4	5	6	7	8
4a														
4b														
5a	3	2	1		5	1		3	2				1	
5b	1				1				1					
5c		1			1									1
6a		1			1			1						
6c														
6d		1			1			1						
7a														
7b			1			1			1					
7c	1					1			1					

TABLE 6:34
ATTRIBUTES OF THE GEOMETRICS

A. TYPE OF BLANK			
A1-flake	A2-bladelet	A3-blade	
B. SIZE OF THE BLANK			
B1-small	B2-medium	B3-large	
C. MORPHOLOGY OF THE TOOL			
C1-semilunate	C2-trapezoidal segment		
C3-scalene triangle	C4-isosceles triangle		
C5-scalene trapeze	C6-isosceles trapeze		
C7-rectangle trapeze	C8-rhomboid		
D. AMPLITUDE OF THE PRIMARY RETOUCH			
D1-marginal	D2-invasive		
E. DIRECTION OF THE PRIMARY RETOUCH			
E1-direct	E2-inverse	E3-alternate	E4-bipolar
F. EXTENT OF THE SECONDARY RETOUCH			
F1-absent	F2-continuous	F3-partial	
G. ANGLE OF THE SECONDARY RETOUCH			
G1-simple			
H. AMPLITUDE OF THE SECONDARY RETOUCH			
H1-marginal			
I. DIRECTION OF THE SECONDARY RETOUCH			
I1-direct	I2-inverse	I3-bilateral	

TABLE 6:35
PAGLICCI 7-4: ATTRIBUTES OF THE GEOMETRICS
(see Table 6:34 for key)

	A			B			C							
	1	2	3	1	2	3	1	2	3	4	5	6	7	8
4a		3		3			3							
4b		5		5			5							
5a		7		6	1		5	1				1		
5b	1			1										1
5c		1		1			1							
6a		1		1			1							
6c														
6d														
7a		1		1			1							
7b														
7c														

	D		E				F			G	H	I		
	1	2	1	2	3	4	1	2	3	1	1	1	2	3
4a		3	3				2		1	1	1	1		
4b		5	4			1	3		2	2	2		2	
5a		7	6			1	1	3	3	6	6	4	1	1
5b	1		1					1		1	1		1	
5c		1	1				1							
6a		1			1		1							
6c														
6d														
7a		1				1		1		1	1		1	
7b														
7c														

TABLE 6:36
PAGLICCI 7-4: TOOL BLANK TYPES

	Flake		Bladelet		Blade	
	n.	%	n.	%	n.	%
4a	5	19	21	81	-	-
4b	35	39	46	51	9	10
5a	51	34	89	60	8	5
5b	33	35	50	53	11	12
5c	50	26	125	66	15	8
6a	40	34	61	52	16	14
6c	2	25	6	75	-	-
6d	11	38	16	55	2	7
7a	13	32	23	56	5	12
7b	5	17	23	77	2	7
7c	32	33	58	60	7	7
Total	277	32	518	59	75	9

TABLE 6:37
PAGLICCI 7-4: TOOL BLANK TYPES EXCLUDING BACKED BLADELETS

	Flake		Bladelet		Blade	
	n.	%	n.	%	n.	%
4a	5	28	13	72	-	-
4b	35	55	20	31	9	14
5a	51	46	53	47	8	7
5b	33	45	30	41	10	14
5c	50	39	63	49	15	12
6a	40	47	30	35	16	19
6c	2	67	1	33	-	-
6d	11	58	6	32	2	10
7a	13	54	6	25	5	21
7b	5	38	6	46	2	15
7c	32	57	18	32	6	11
Total	277	46	246	41	73	12

TABLE 6:38
PAGLICCI 7-4: TOOL BLANK SIZE

	Small		Medium		Large	
	n.	%	n.	%	n.	%
4a	16	62	10	38	-	-
4b	54	60	27	30	9	10
5a	63	43	75	51	10	6
5b	31	33	52	55	11	12
5c	90	47	80	42	20	11
6a	57	49	42	36	18	15
6c	4	50	4	50	-	-
6d	18	62	10	34	1	4
7a	19	46	15	37	7	17
7b	22	73	6	20	2	7
7c	49	51	38	39	10	10
Total	423	49	359	41	88	10

TABLE 6:39
PAGLICCI 7-4: TOOL BLANK SIZE EXCLUDING BACKED BLADELETS

	Small		Medium		Large	
	n.	%	n.	%	n.	%
4a	11	61	7	39	-	-
4b	30	47	25	39	9	14
5a	38	34	64	57	10	9
5b	18	25	45	61	10	14
5c	38	30	70	55	20	15
6a	35	41	33	38	18	21
6c	-	-	3	100	-	-
6d	11	58	7	37	1	5
7a	9	38	8	33	7	29
7b	7	54	4	31	2	15
7c	20	36	27	48	9	16
Total	217	36	293	49	86	15

TABLE 6:40
PAGLICCI 7-4: CORTICAL TOOLS

	BUR	END	BBL	TRU	NOT	DEN	LIN	POI	BEC	COM	GEO	Total
4a			1	1		1						3
4b	1	3		1	1	1	11					18
5a	1	3		3	2	1	22	1		1		34
5b		2	1		1		17	1				22
5c	2	4	1	4	1		29	3				44
6a		4	1		1		16	1		1		24
6c								1				1
6d			1				3					4
7a			3				4	1				8
7b						1	1					2
7c	4	1	2	2	1		12			1		23
Total	8	17	10	11	7	4	115	8		3		183

TABLE 6:41
PAGLICCI 7-4: CORTICAL TOOL BLANK TYPE

	Flake		Bladelet		Blade	
	n.	%	n.	%	n.	%
4a	-	-	3	100	-	-
4b	11	61	4	22	3	17
5a	24	71	8	23	2	6
5b	8	36	11	50	3	14
5c	21	48	16	36	7	16
6a	15	63	6	25	3	12
6c	1	100	-	-	-	-
6d	1	25	3	75	-	-
7a	2	25	4	50	2	25
7b	1	50	1	50	-	-
7c	16	70	7	30	-	-
Total	100	55	63	34	20	11

TABLE 6:42
PAGLICCI 7-4: CORTICAL TOOL BLANK SIZE

	Small		Medium		Large	
	n.	%	n.	%	n.	%
4a	-	-	3	100	-	-
4b	8	44	7	39	3	17
5a	7	20	23	68	4	12
5b	8	36	11	50	3	14
5c	10	23	25	57	9	20
6a	10	42	10	42	4	16
6c	-	-	1	100	-	-
6d	-	-	4	100	-	-
7a	2	25	4	50	2	25
7b	-	-	2	100	-	-
7c	4	17	15	65	4	17
Total	49	27	105	57	29	16

TABLE 6:43
PAGLICCI 7-4: TOOL BREAKAGE

	Whole		Broken	
	n.	%	n.	%
4a	10	38	16	62
4b	47	52	43	48
5a	71	48	77	52
5b	51	54	43	46
5c	73	38	117	62
6a	52	44	65	56
6c	2	25	6	75
6d	11	38	18	62
7a	17	41	24	59
7b	3	10	27	90
7c	36	37	61	63
Total	373	43	497	57

TABLE 7:1
SUBSISTENCE ECONOMIES
(see page 420 for key)

Site	Approx. distance to shoreline	Climate	Fauna	Dominant species	Birds	Marine molluscs	Geometric microliths
Cipolliane 1	6	Mild	C	-	-	P	P
Cipolliane 2	10	Cold	A	-	-	-	-
Cipolliane 3	10	Mild	A	A	-	-	-
Cipolliane 4	10	Cold	E	-	-	-	-
Romanelli B-A	2	Mild	H	-	P	P	P
Romanelli C	2	Cold	J	-	P	P	P
Romanelli E-D	2	Cold	J	-	P	P	P
Prazziche C	2	Mild	I	E	-	P	-
Taurisano 5-1	16	Mild	A	A	-	-	-
Taurisano 23-6	21	Cold	B	B	-	-	-
Parabita	15	Mild	B	A	-	-	P
Ugento	5	Mild	B	-	-	P	-
Cavallo BI	6	Mild	B	B	-	P	P
Cavallo BIIa	6	Mild	B	B	-	P	P
Cavallo BIIb	6	Mild	B	B	-	P	P
Uluzzo	6	Mild	B	B	-	P	P
Carlo Cosma	6	Mild	B	A	-	P	-
Mura C	4	Mild	B	A	-	P	P
Mura F-D	10	Mild	G	A	-	-	-
Mura G	13	Mild	F	A	-	-	-
Santa Croce	20	Cold	?	?	-	-	P
Paglicci 4	60	Mild	K	C	-	-	P
Paglicci 5	60	Mild	K	D	-	-	P
Paglicci 6	60	Mild	D	D	-	-	P
Paglicci 7	60	Cold	D	F	-	-	P

KEY TO TABLE 7:1

FAUNA

A. Wild ass Wild horse Aurochs Red deer	B. Wild ass Wild horse Aurochs Red deer Wild boar	C. Wild ass Wild horse Aurochs Red deer Wild boar Roe deer	D. Wild ass Wild horse Aurochs Red deer Wild boar Ibex
E. Wild ass Wild horse	F. Wild horse Aurochs Red deer Wild boar	G. Wild horse Aurochs Red deer Roe deer	H. Wild ass Aurochs Red deer Wild boar
I. Wild ass Aurochs Red deer Wild boar Roe deer	J. Wild ass Aurochs Red deer Wild boar Roe deer Ibex	K. Wild ass Aurochs Red deer Wild boar Roe deer Ibex Chamois	

DOMINANT SPECIES

- A. Aurochs
- B. Wild horse
- C. Wild ass
- D. Wild boar
- E. Red deer
- F. Ibex

P	present
-	absent
?	unknown

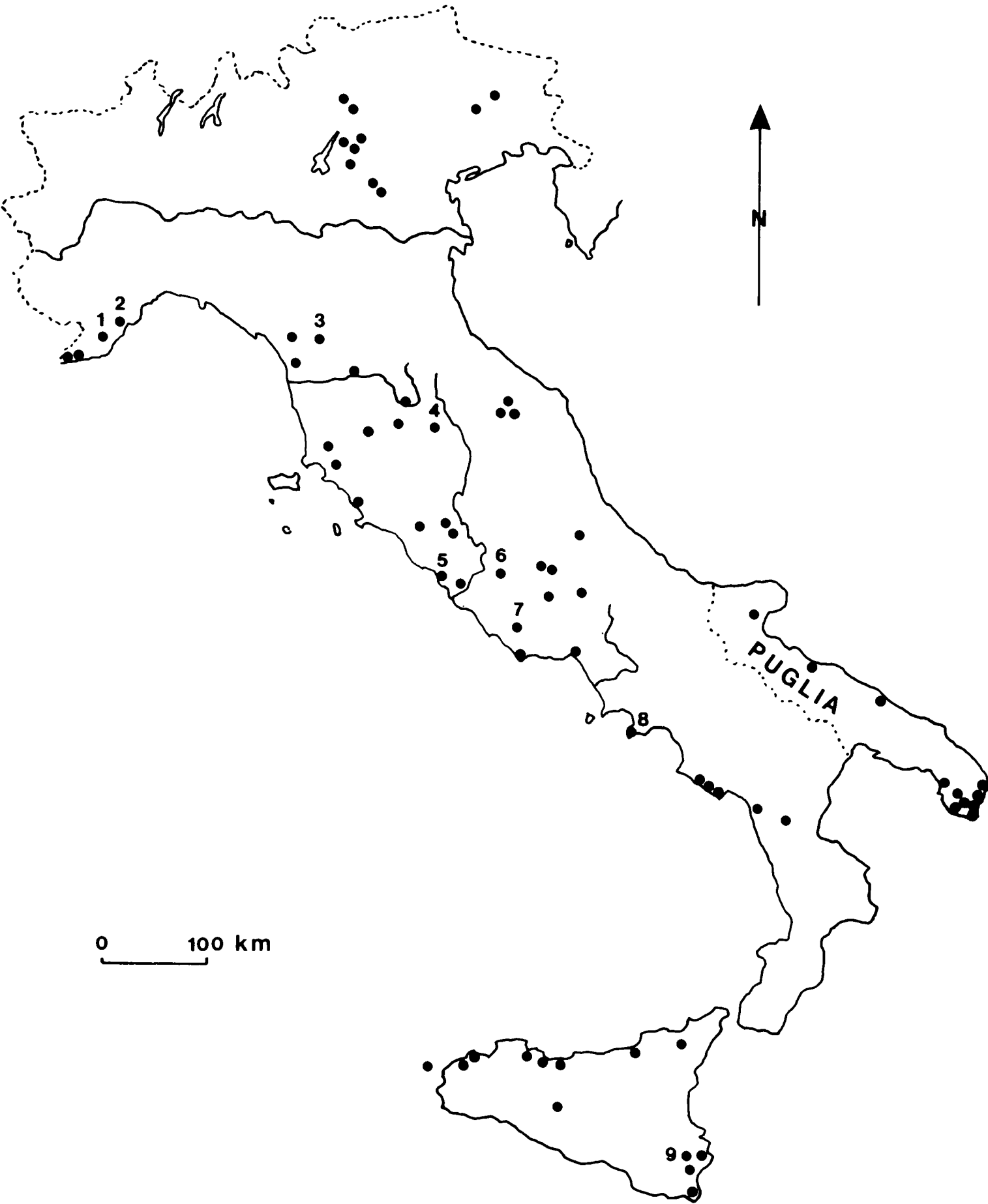
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FIGURE 1:1
DISTRIBUTION OF THE PRINCIPAL EPIGRAVETTIAN SITES IN ITALY



(1) Arma di Nasino/Arma dello Stefanin; (2) Arene Candide; (3) Grotta delle Campane; (4) Tane di Parrano; (5) Palidoro; (6) Grotta Polesini; (7) Grotta Jolanda; (8) Grotta la Porta; (9) San Corrado

FIGURE 1:2
THE *CHAINE OPERATOIRE* (After Pelegrin 1985)

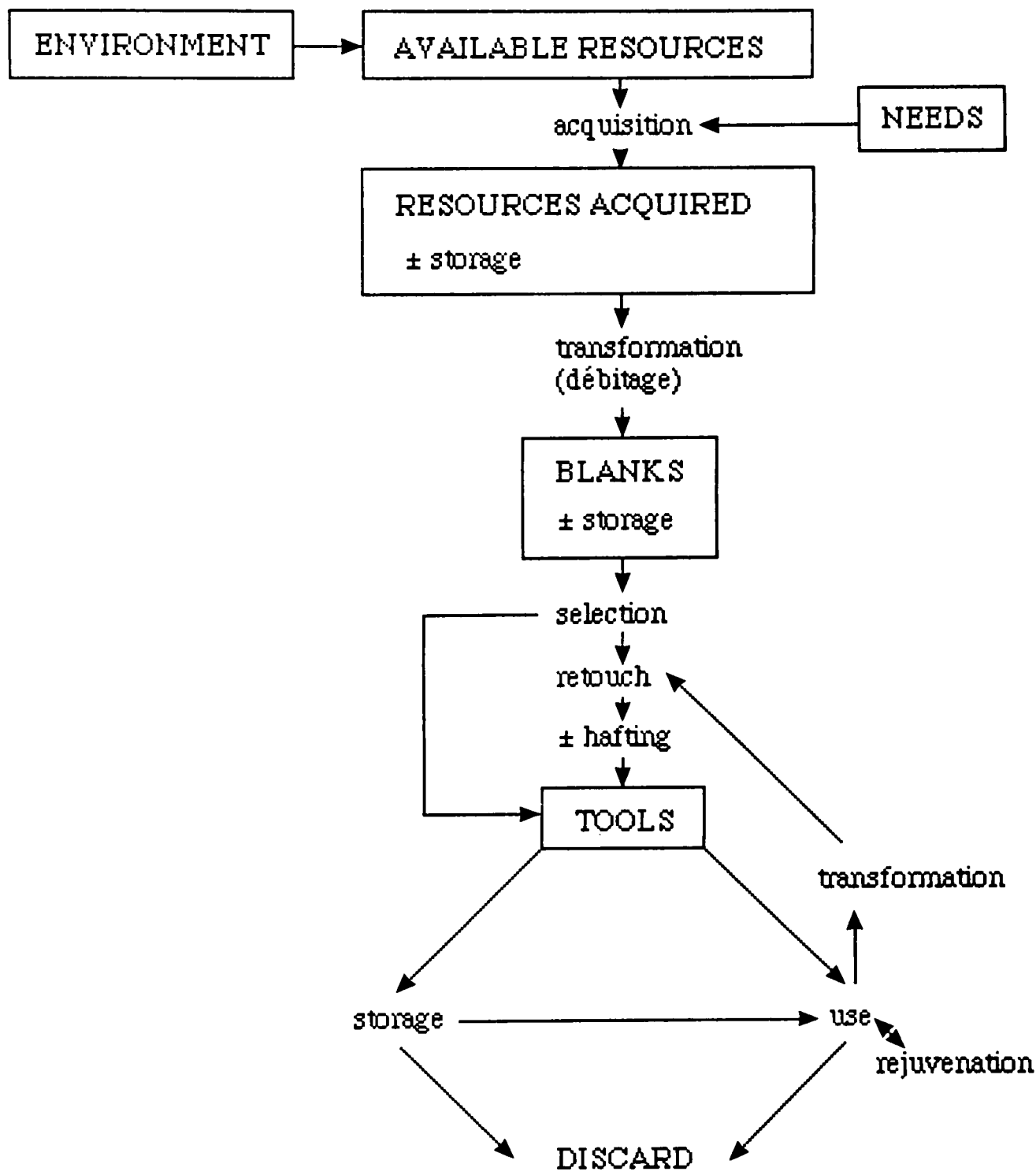
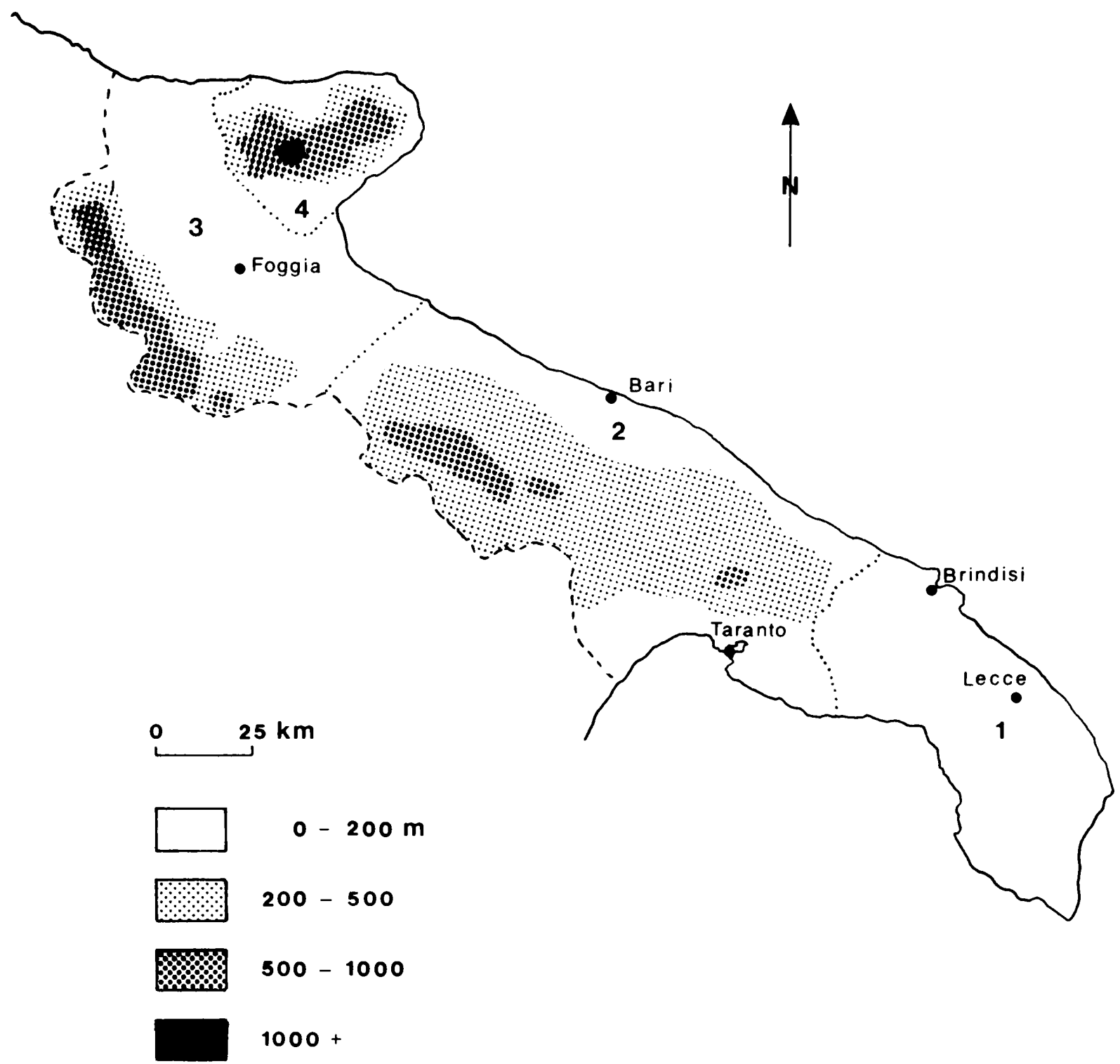
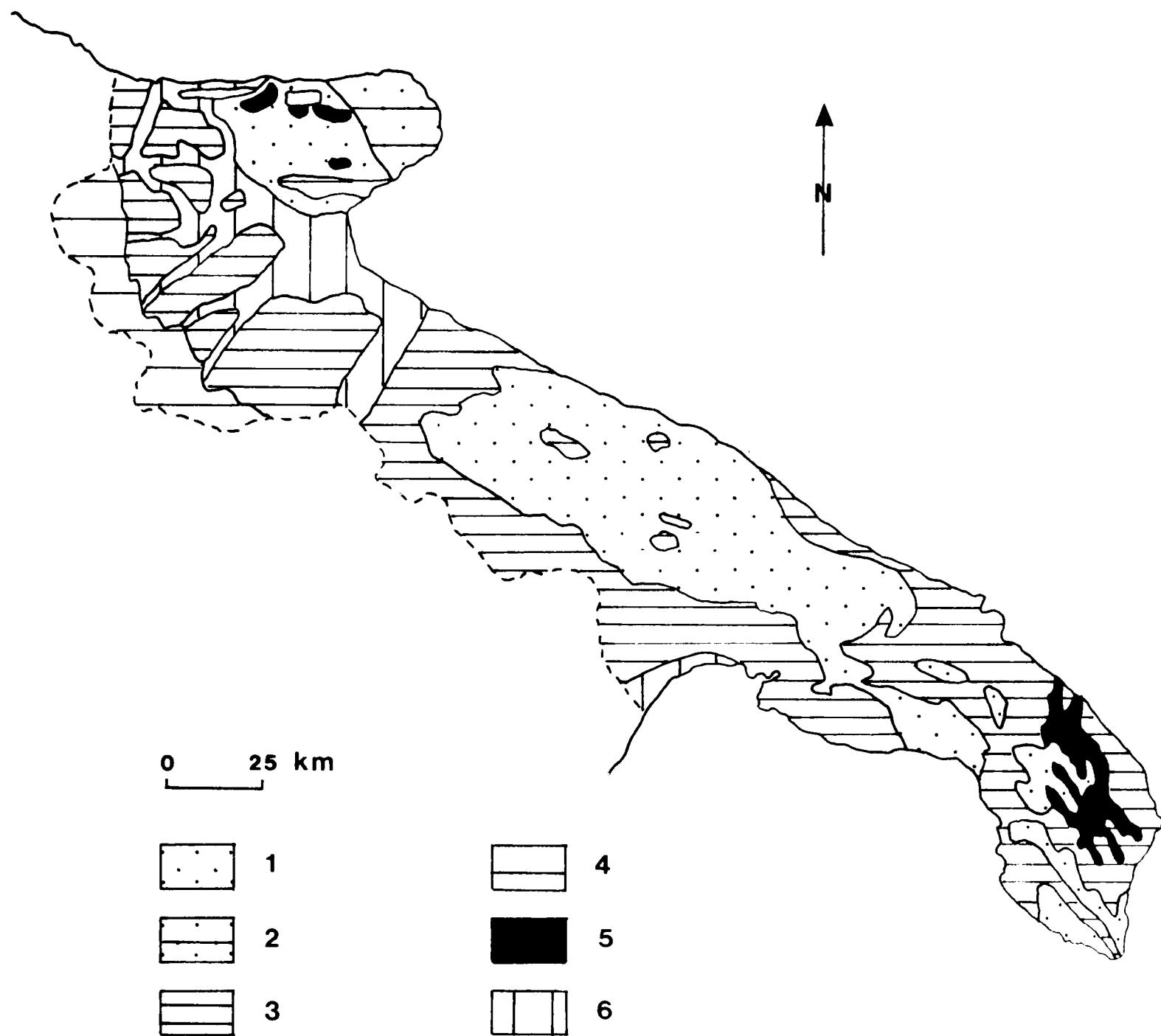


FIGURE 2:1
TOPOGRAPHY OF THE REGION OF PUGLIA



(1) The Salento Peninsula; (2) The Murge; (3) The Tavoliere; (4) The Gargano Promontory

FIGURE 2:2
GEOLOGY OF THE REGION OF PUGLIA



(1) Upper Cretaceous limestone; (2) Lower Cretaceous limestone; (3) Plio-Pleistocene sands and clays; (4) Flysch; (5) Miocene limestone and tufa; (6) Holocene alluvium

FIGURE 2:3
LOCATION OF CHERT SOURCES IN SOUTH-EAST ITALY

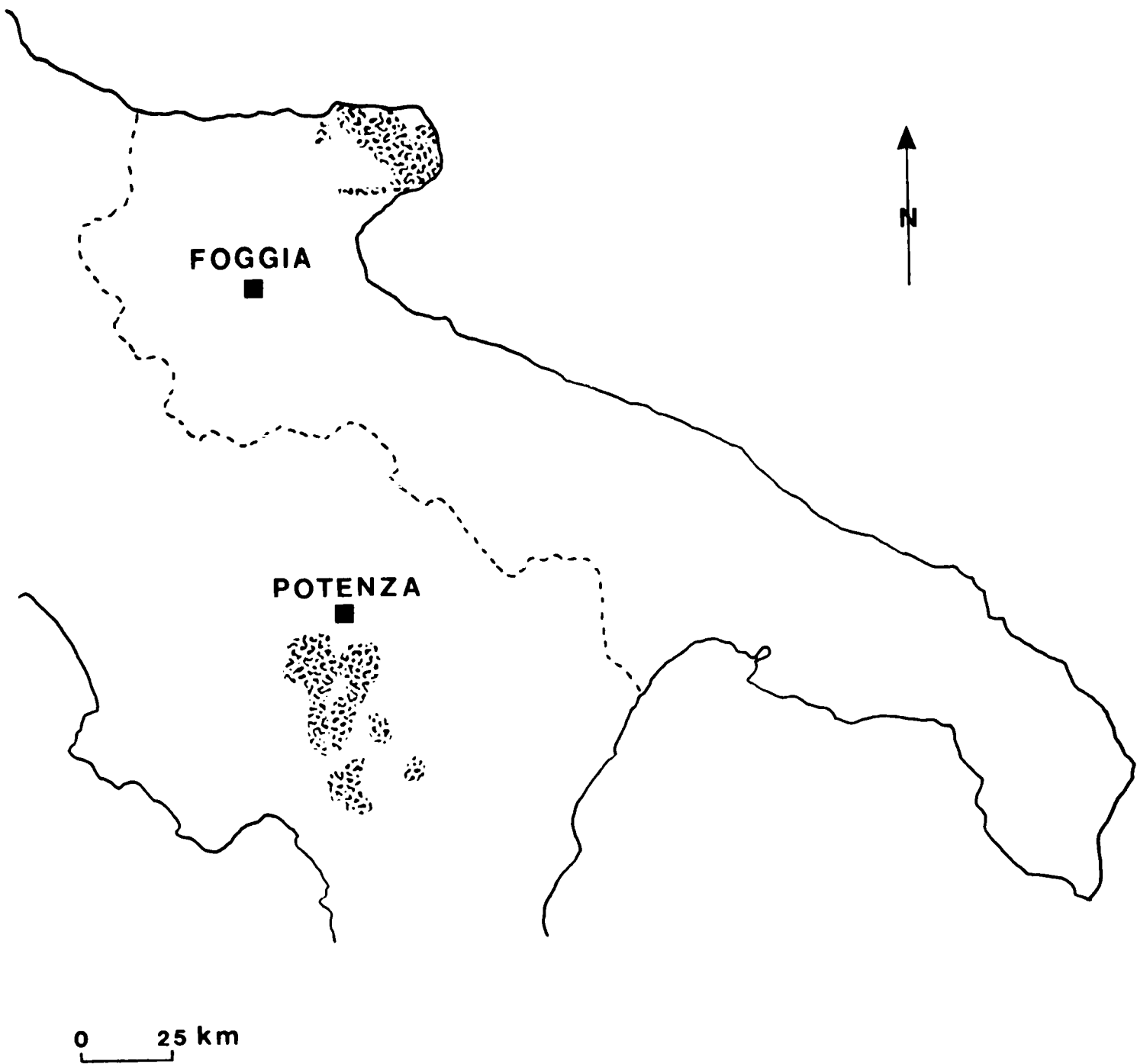
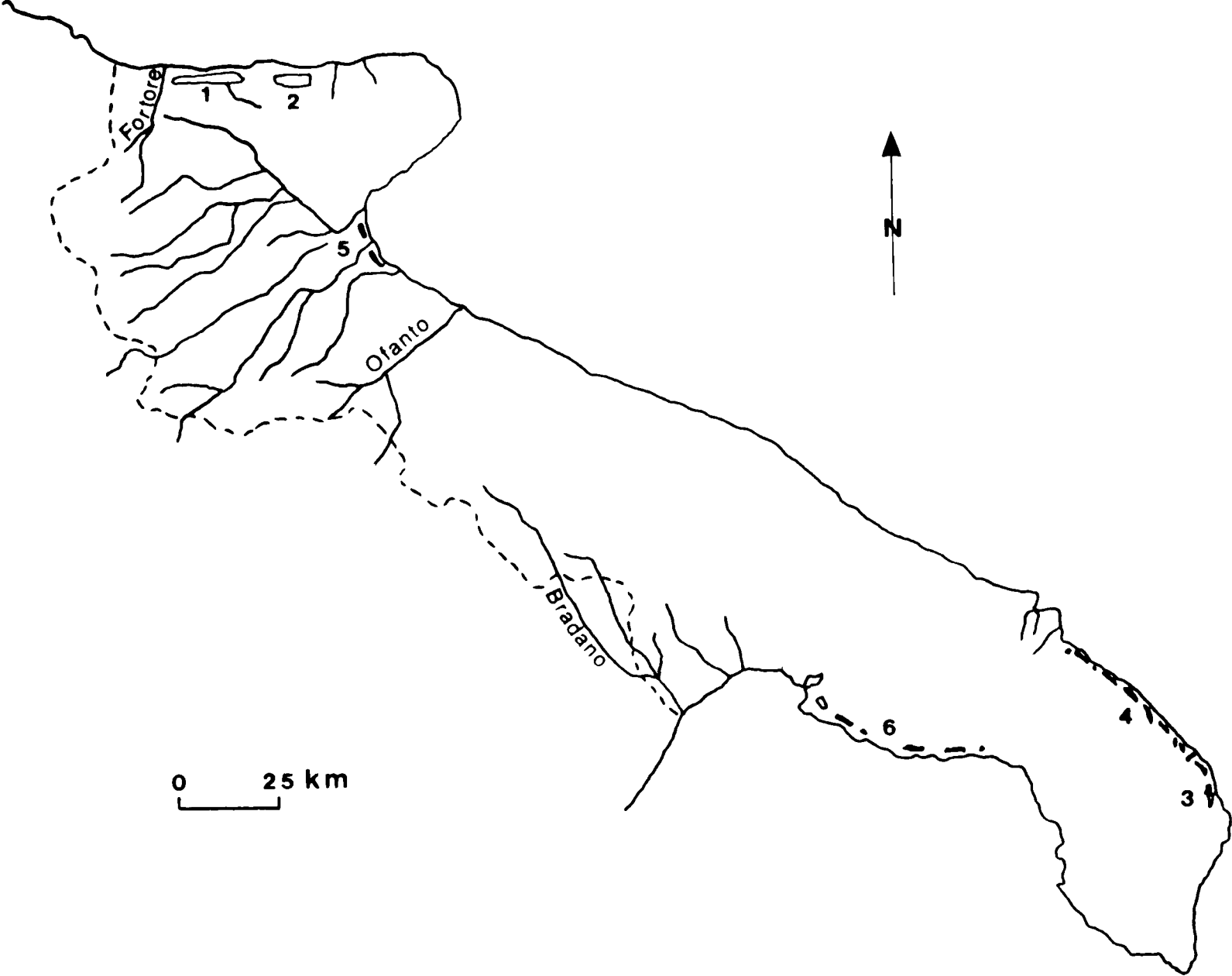
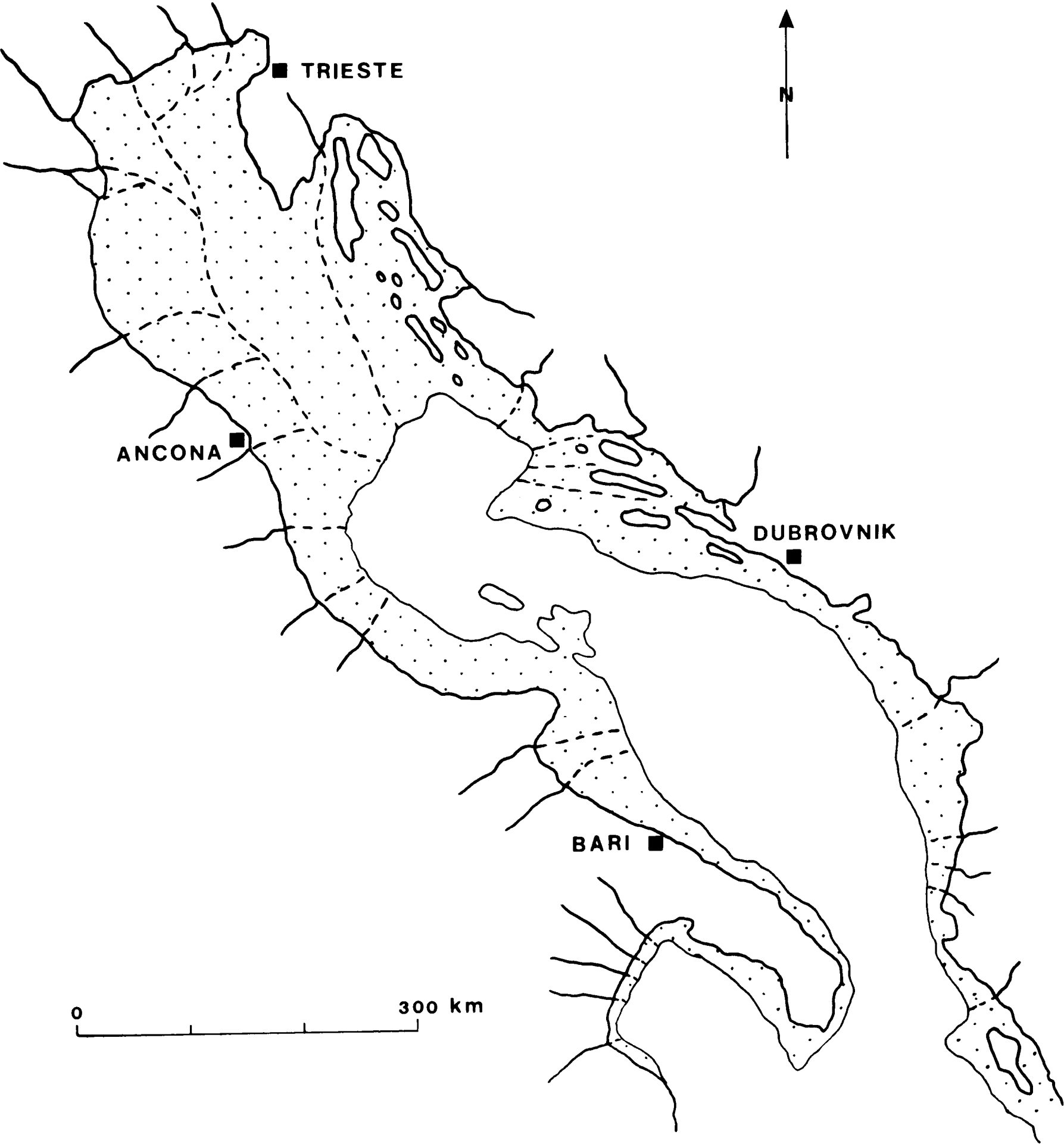


FIGURE 2:4
HYDROLOGY OF THE REGION OF PUGLIA



(1) Lago di Lesina; (2) Lago di Varano; (3) Laghi Alimini; (4) Fossil lagoons reclaimed by the *Bonifica di San Cataldo*; (5) Fossil lagoons of the Gulf of Manfredonia; (6) Fossil lagoons between Taranto and Porto Cesareo.

FIGURE 2:5
ADRIATIC PALAEOSHORELINE AT 18,000 BP (After Shackleton *et al.* 1984)



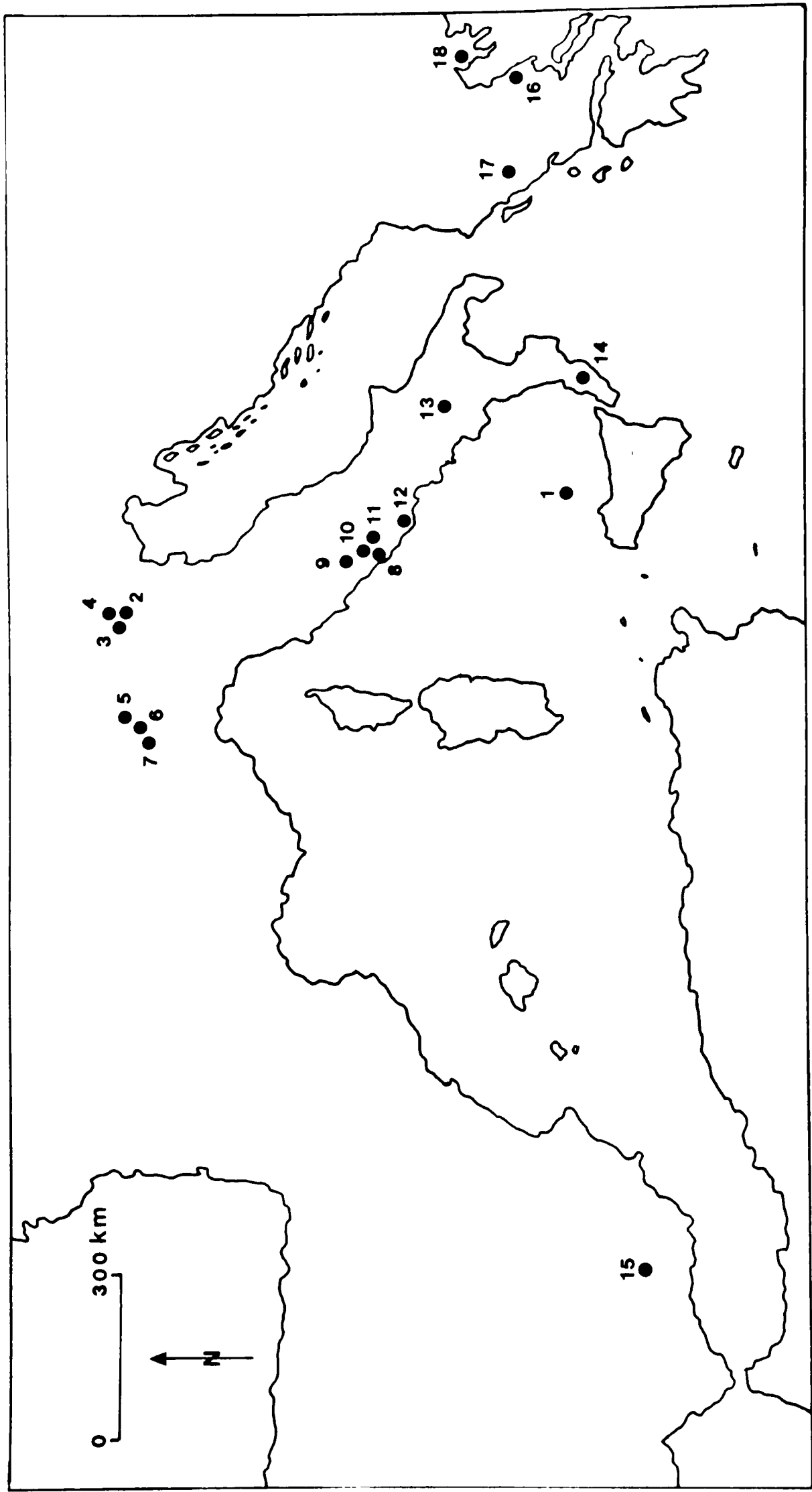


FIGURE 2:6
LOCATION OF THE POLLEN CORES DISCUSSED IN THE TEXT

(1) KET 8003; (2) Bondone; (3) Saltarino Sotto; (4) Lago di Ledro; (5) Lago di Biondrone; (6) Lago Viverone; (7) Torbiera d'Alice Superiore; (8) Valle di Castiglione; (9) Lago di Vico; (10) Lago di Monterosi; (11) Lago di Martignano; (12) Mezzaluna; (13) Lago di Monticchio; (14) Canolo Nuovo; (15) Xinias; (16) Padul; (17) Ioannina; (18) Tenaghi Phillipon

FIGURE 3:1
DISTRIBUTION OF LATE PALAEOOLITHIC SITES IN SOUTH-EAST ITALY

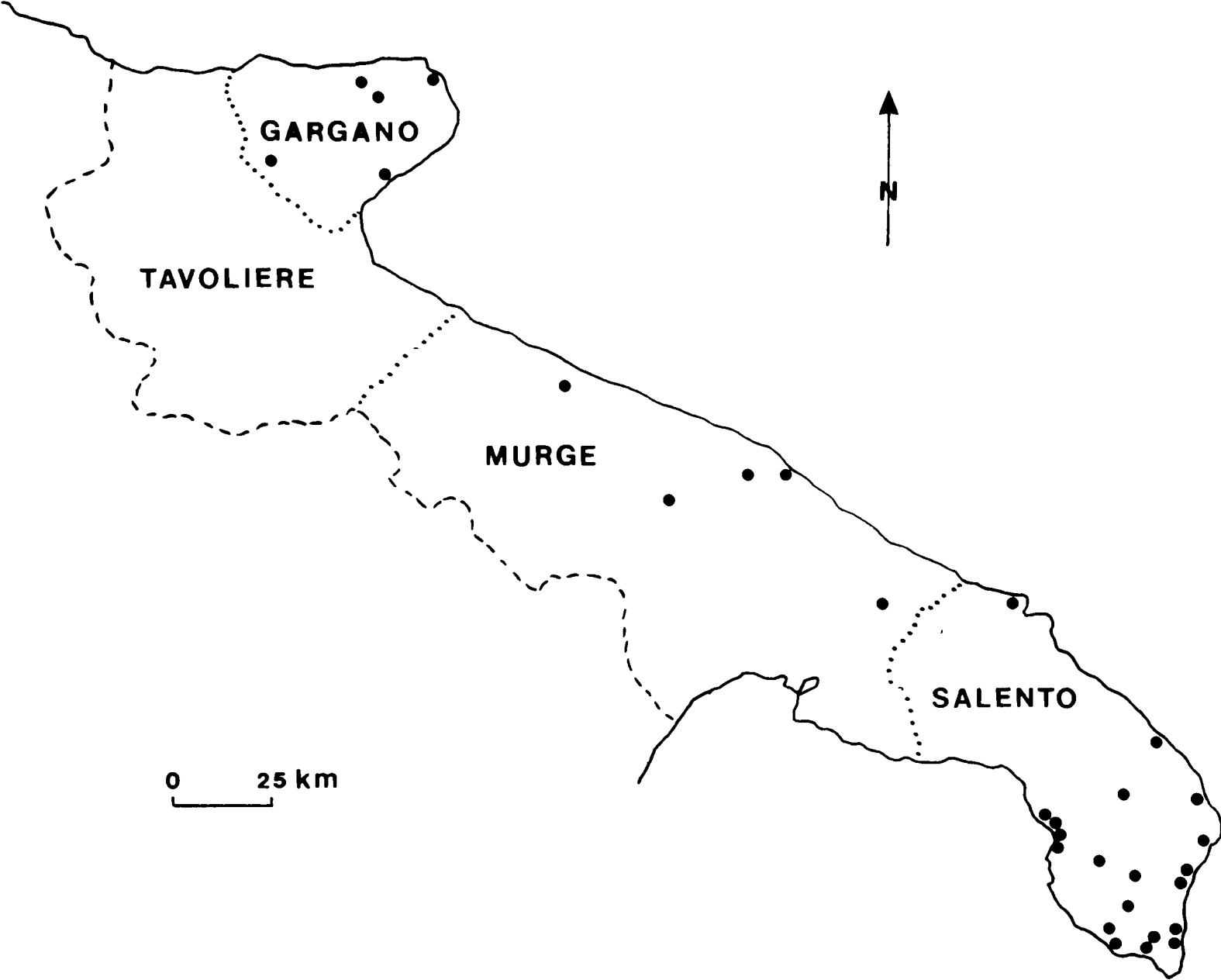
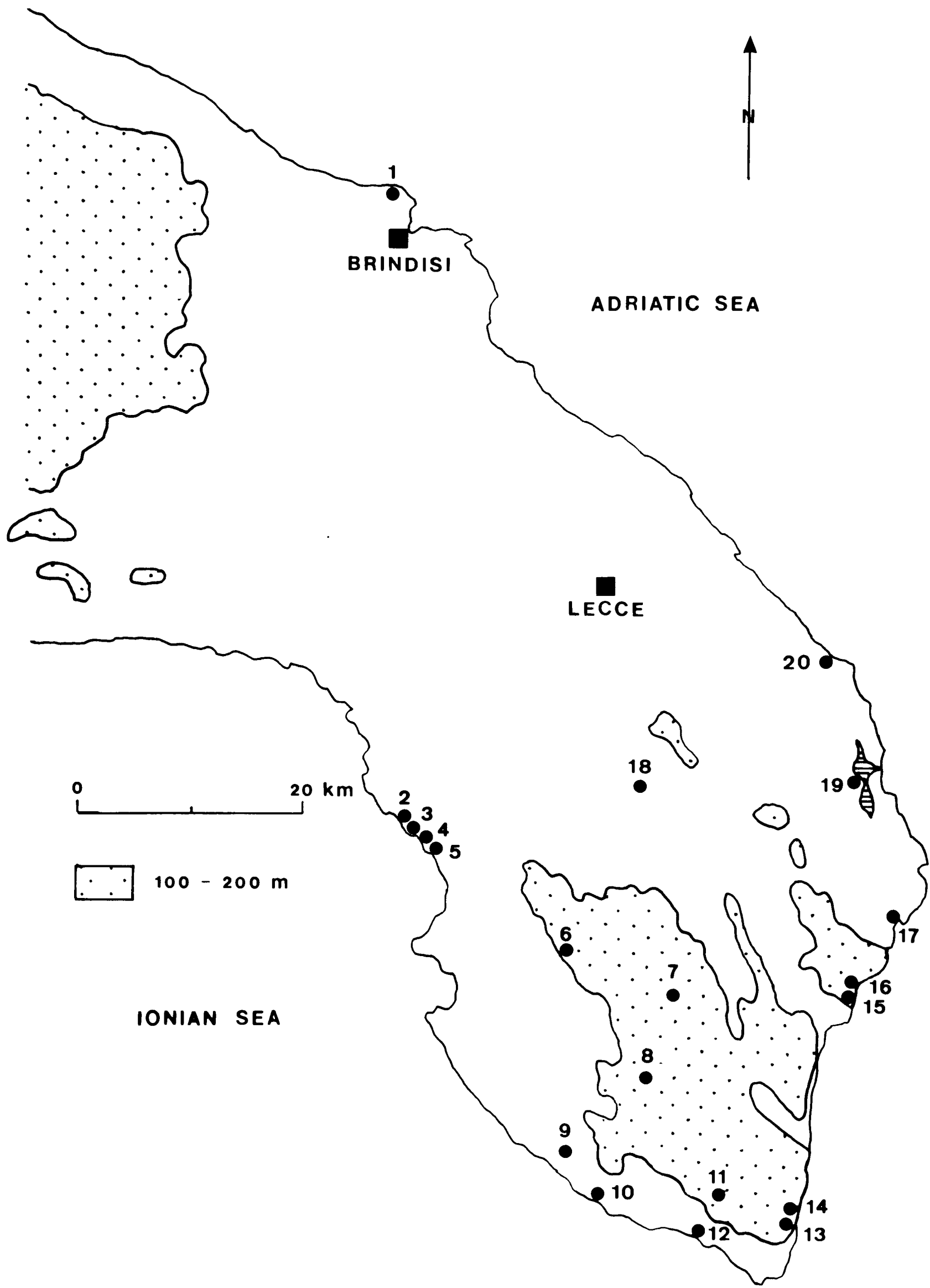


FIGURE 3:2
DISTRIBUTION OF LATE PALAEOOLITHIC SITES IN THE SALENTO
PENINSULA (see page 434 for key)



KEY TO FIGURE 3:2

- | | |
|-------------------------|------------------------------|
| (1) Torre Testa | (11) Monti Russi |
| (2) Torre dell'Alto | (12) Torre Vado |
| (3) Grotta di Uluzzo | (13) Grotta delle Prazziche |
| (4) Grotta Carlo Cosma | (14) Grotta delle Cipolliane |
| (5) Grotta del Cavallo | (15) Grotta Zinzulusa |
| (6) Grotta delle Venere | (16) Grotta Romanelli |
| (7) Supersano | (17) Porto Badisco |
| (8) Taurisano | (18) Soleto |
| (9) Ugento | (19) Alimini |
| (10) Punta Macalone | (20) San Foca |

FIGURE 3:3
STRATIGRAPHY OF GROTTA DELLE CIPOLLIANE (after Gambassini 1970)

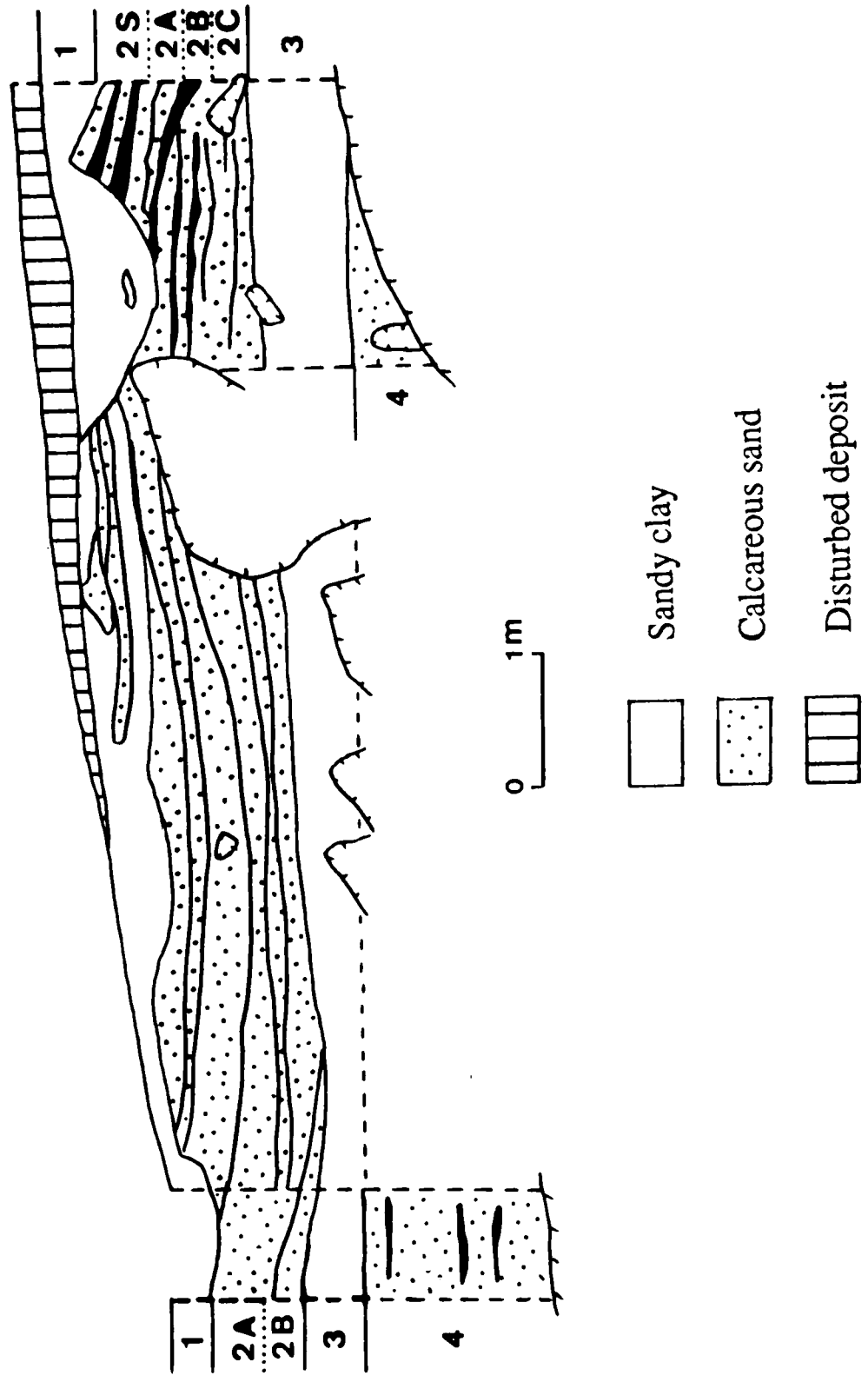
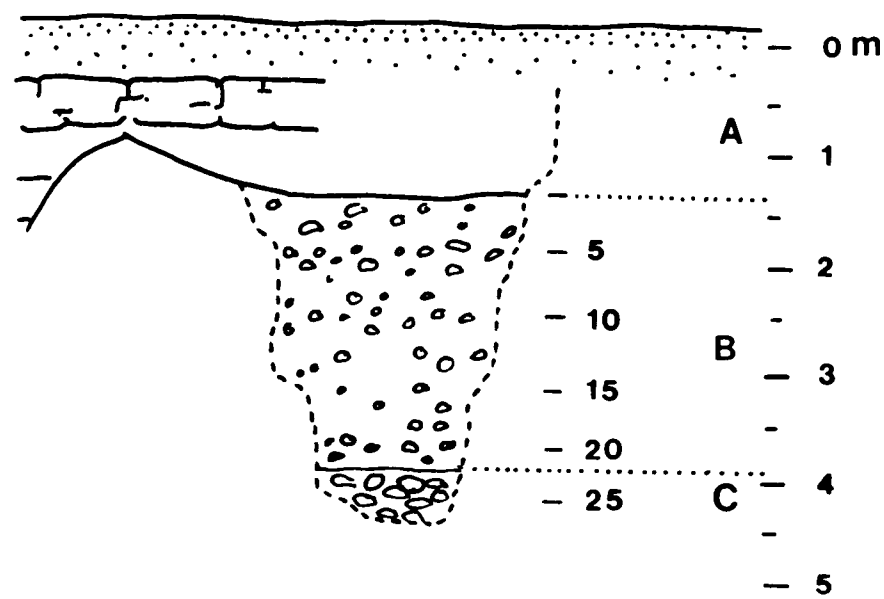
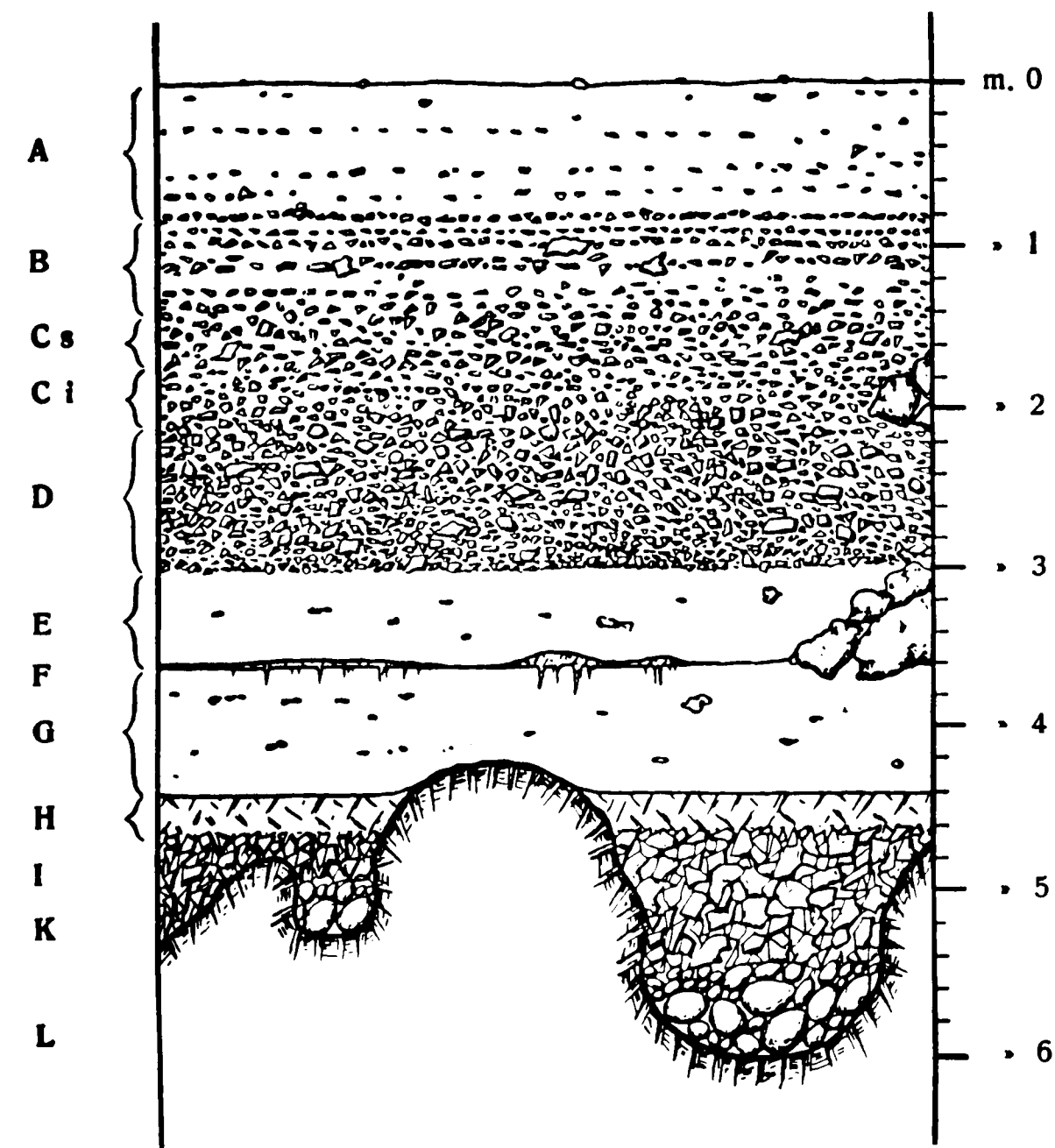


FIGURE 3:4
STRATIGRAPHY OF TAURISANO (After Bietti 1979)



- A red earth
- B brown earth
- C red earth

FIGURE 3:5
STRATIGRAPHY OF GROTTA ROMANELLI (After G.A.Blanc 1928a)



- A-E Brown earth deposits with Final Palaeolithic occupation
- F Stalagmite
- G-L Red earth deposits with Middle Palaeolithic occupation

FIGURE 3:6
DISTRIBUTION OF LATE PALAEO LITHIC SITES IN THE MURGE

(1) Grotta Santa Croce; (2) Grotta di Corto Martino; (3) Grotta Simone; (4) Grotta delle Mura; (5) Monticello

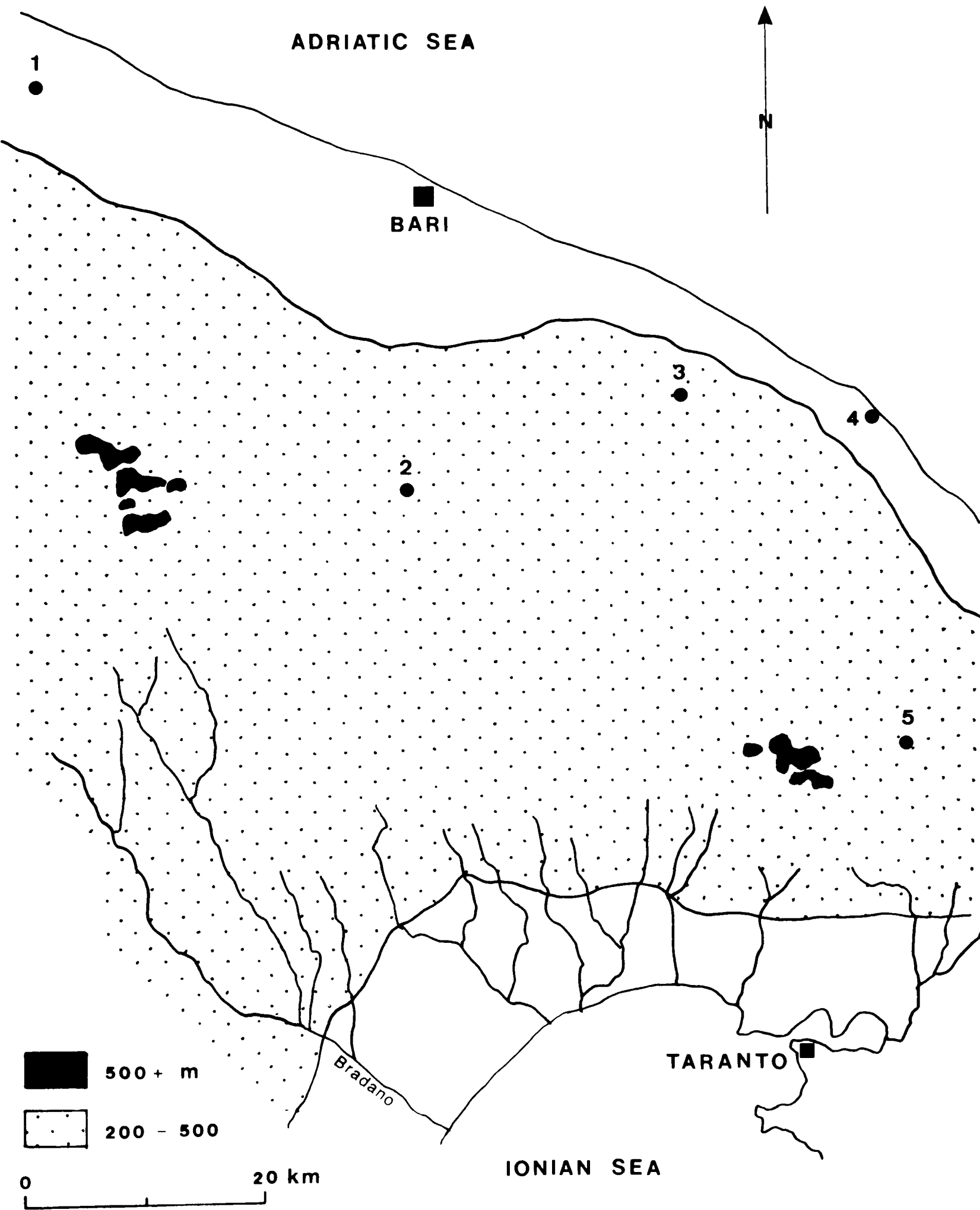


FIGURE 3:7
DISTRIBUTION OF LATE PALAEOOLITHIC SITES IN THE GARGANO
PROMONTORY

(1) Grotta Paglicci; (2) Grotta Scaloria; (3) Macelli; (4) Foresta Umbra; (5) Macchione

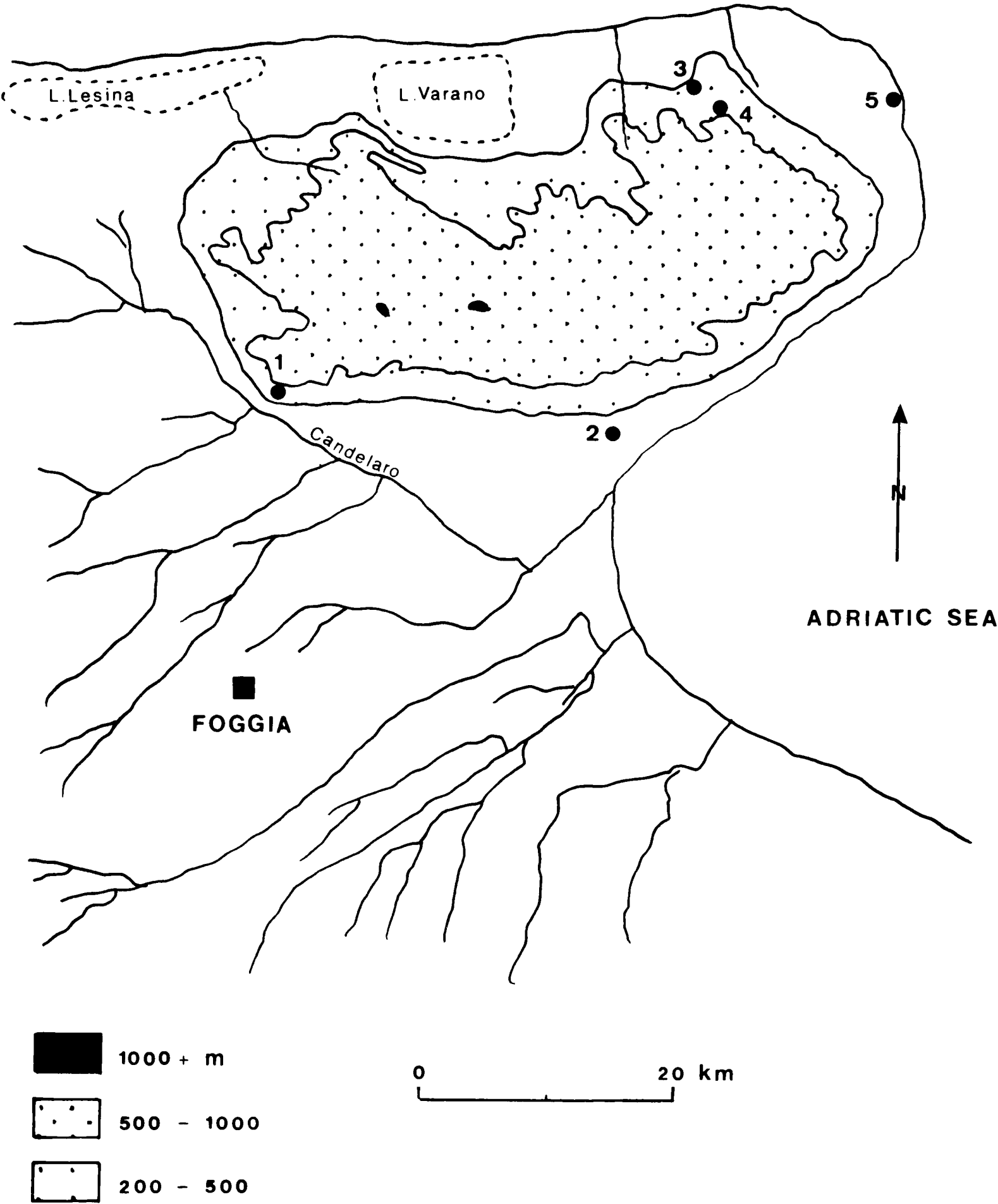


FIGURE 3:8
STRATIGRAPHY OF THE EPIGRAVETTIAN LEVELS AT GROTTA
PAGLICCI (from Mezzena and Palma di Cesnola 1967)

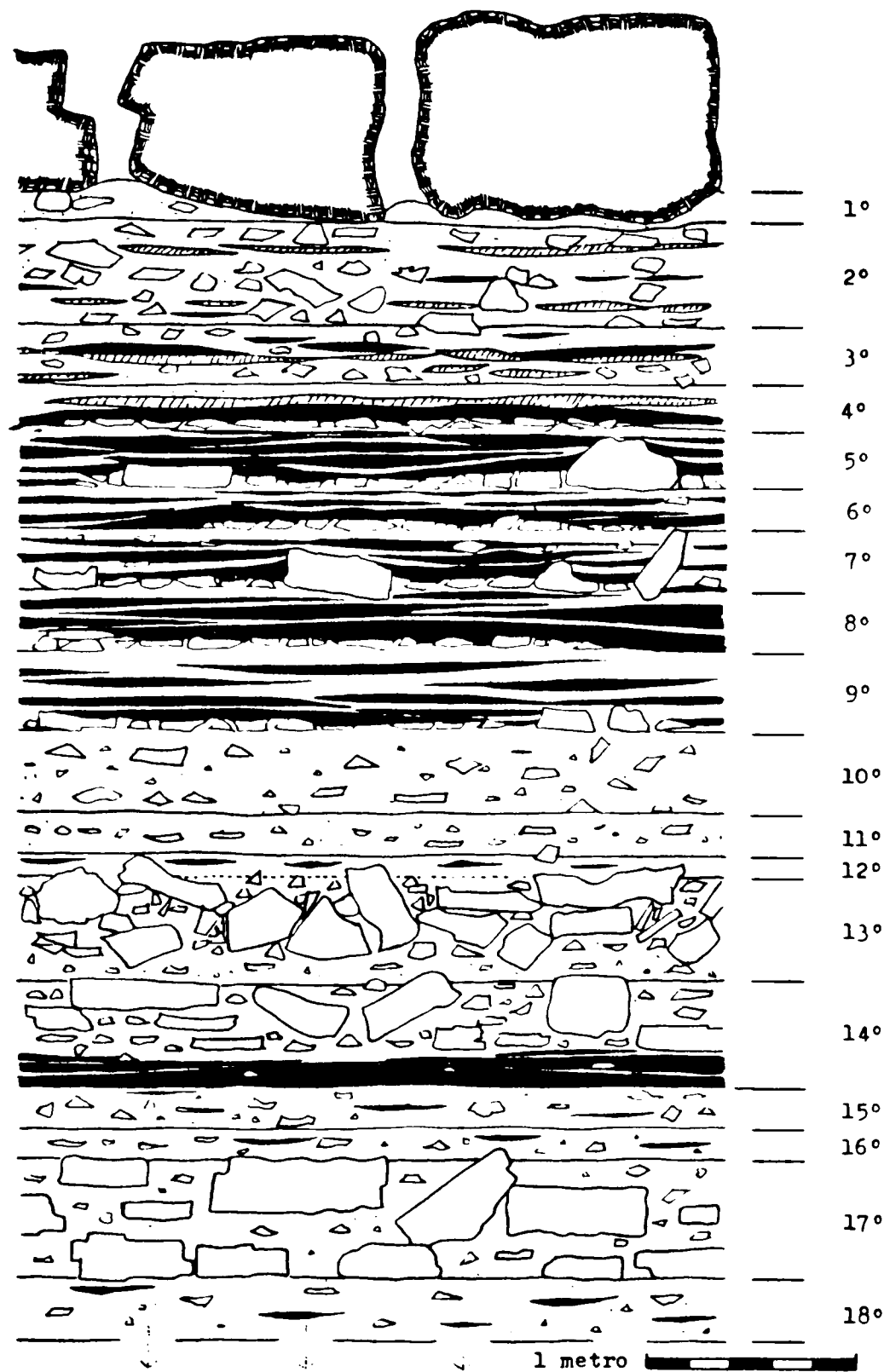
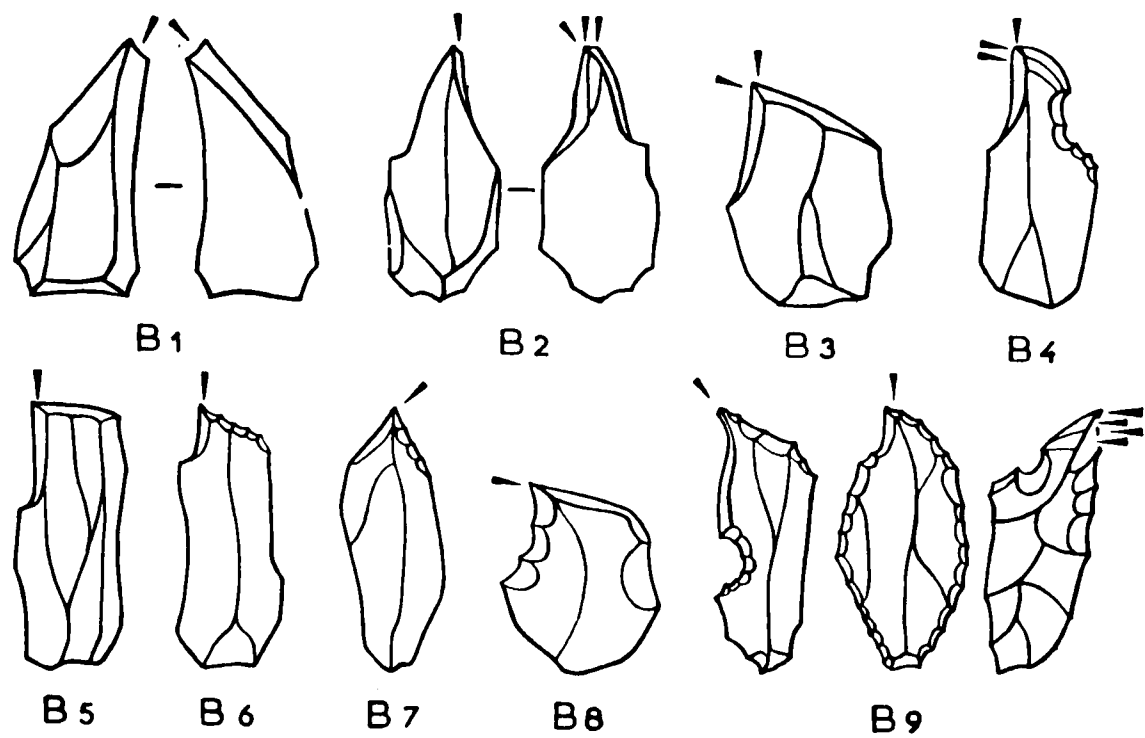
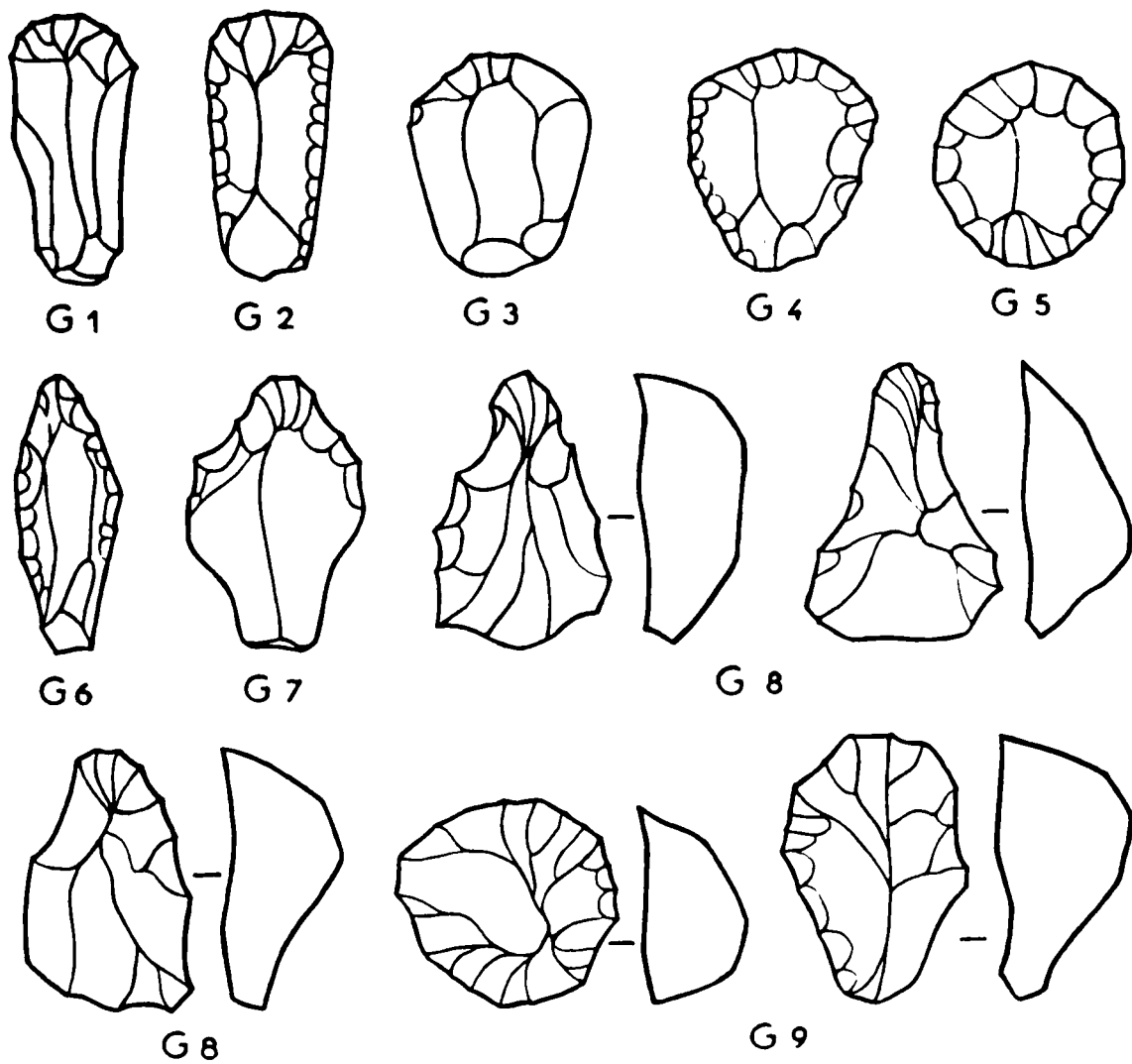


FIGURE 4:1
LAPLACE (1964a) PRIMARY TYPES: BURINS



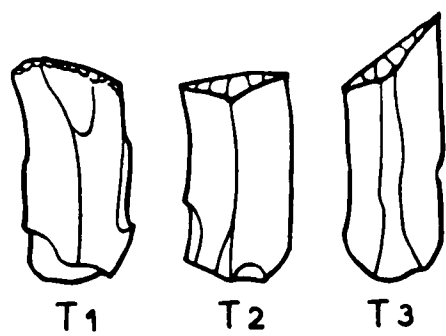
- B1 Simple burin with one facet
- B2 Simple axial burin
- B3 Simple angle burin
- B4 Simple burin with backed notch
- B5 Burin on break
- B6 Retouched burin with lateral facet
- B7 Retouched burin with oblique facet
- B8 Retouched burin with transversal facet
- B9 Retouched burin with backing retouch

FIGURE 4:2
 LAPLACE (1964a) PRIMARY TYPES: ENDSCRAPERS



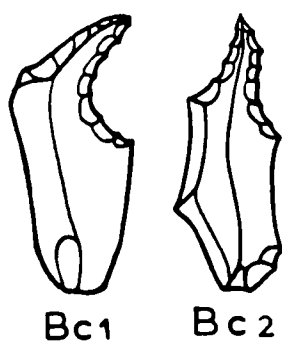
- G1 Long frontal endscraper
- G2 Long frontal endscraper with lateral retouch
- G3 Short frontal endscraper
- G4 Short frotnal endscraper with lateral retouch
- G5 Circular endscraper
- G6 Pointed nosed endscraper
- G7 Wide nosed endscraper
- G8 Carinated nosed endscraper
- G9 Frontal carinated endscraper

FIGURE 4:3
LAPLACE (1964a) PRIMARY TYPES: TRUNCATIONS



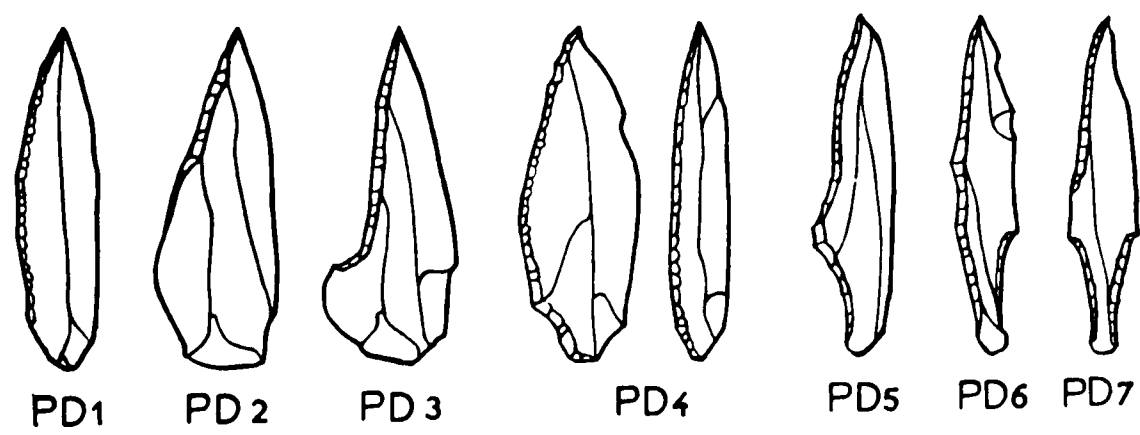
- T1 Marginal truncation
- T2 Normal truncation
- T3 Oblique truncation

FIGURE 4:4
LAPLACE (1964a) PRIMARY TYPES: PERFORATORS



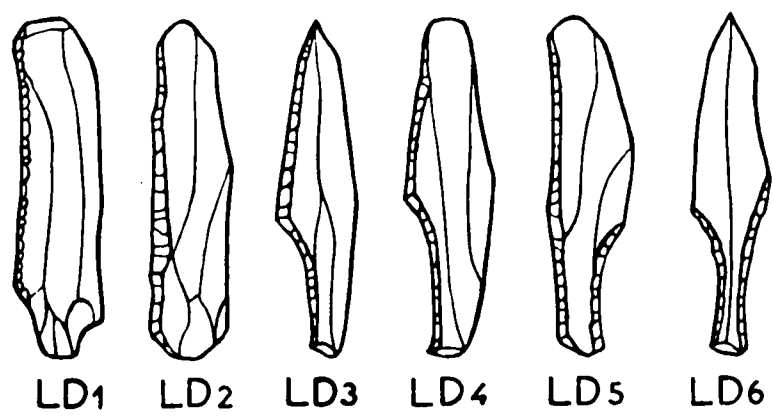
- Bc1 Offset perforator
- Bc2 Upright perforator

FIGURE 4:5
LAPLACE (1964a) PRIMARY TYPES: BACKED POINTS



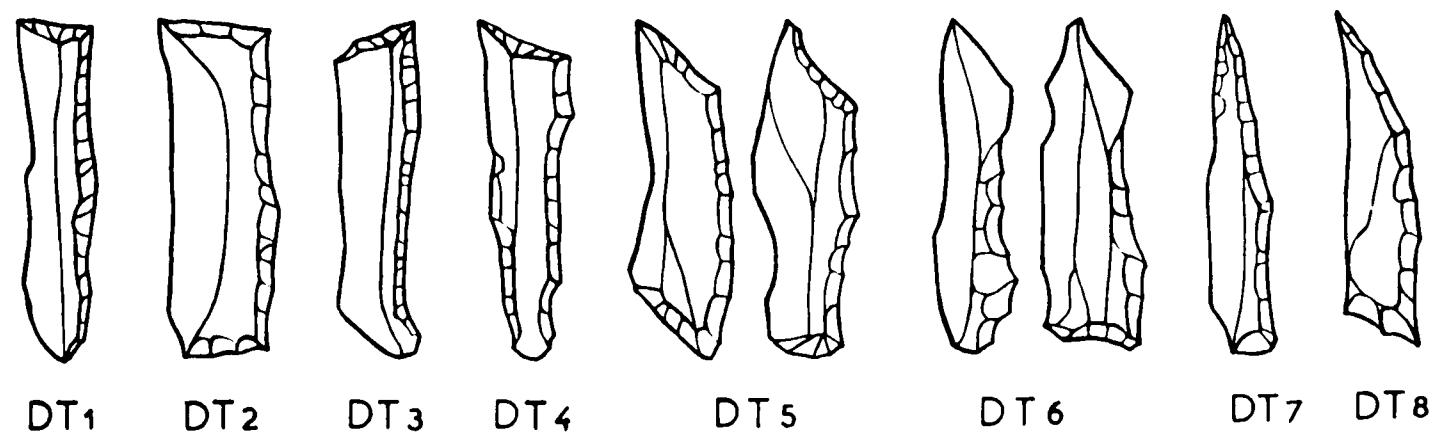
- PD1 Marginally backed point
- PD2 Partially backed point
- PD3 Shouldered point
- PD4 Totally backed point
- PD5 Adjacent shouldered backed point
- PD6 Opposite shouldered backed point
- PD7 Tanged point

FIGURE 4:6
LAPLACE (1964a) PRIMARY TYPES: BACKED BLADES



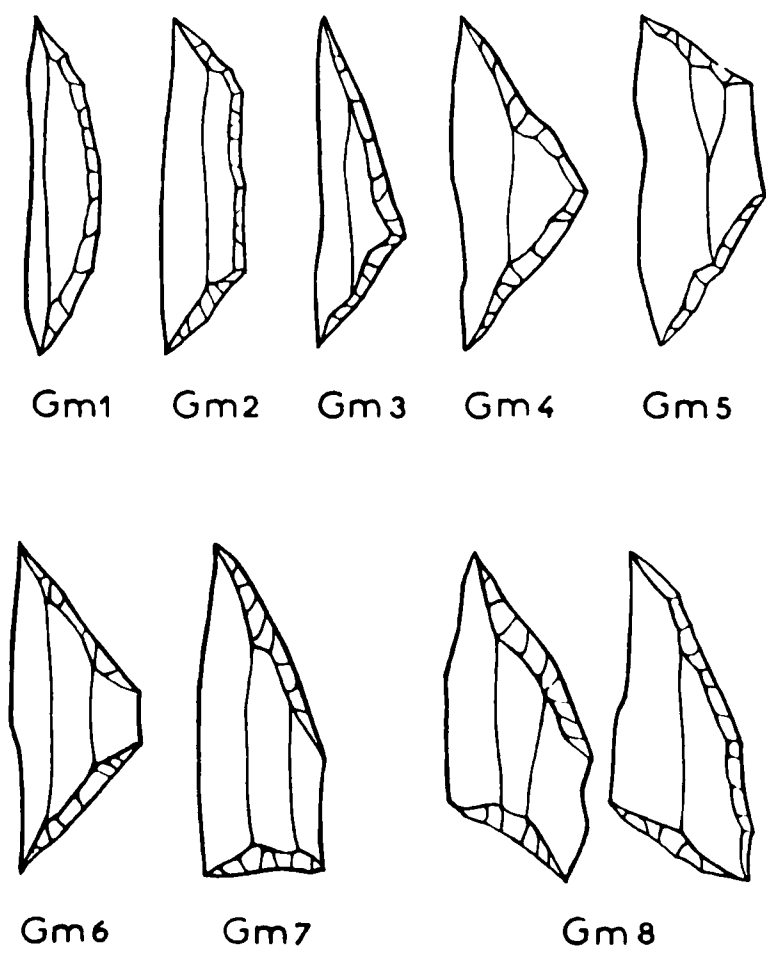
- LD1 Marginally backed blade
- LD2 Totally backed blade
- LD3 Shouldered blade
- LD4 Adjacent shouldered backed blade
- LD5 Opposite shouldered backed blade
- LD6 Tanged blade

FIGURE 4:7
 LAPLACE (1964a) PRIMARY TYPES: BACKED TRUNCATIONS



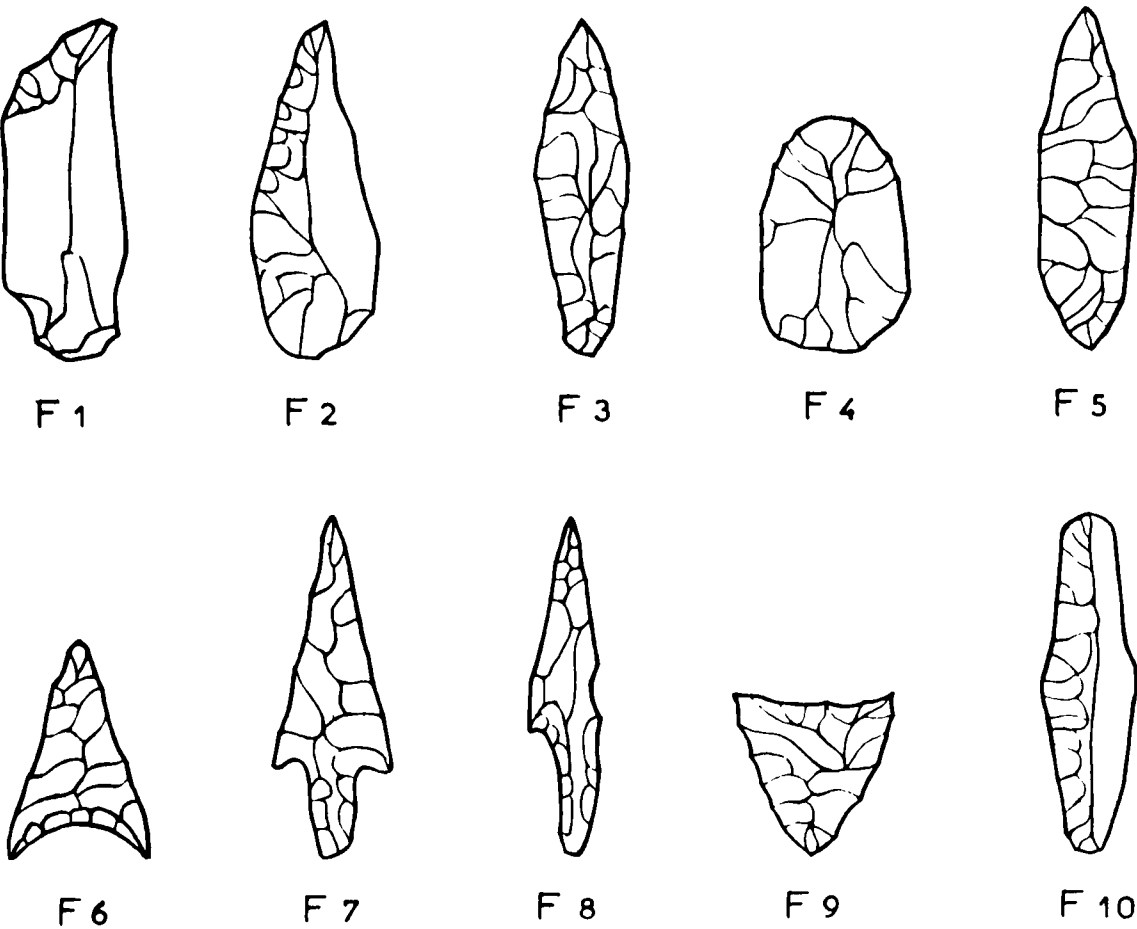
- DT1 Backed blade with normal truncation
- DT2 Backed blade with normal double truncation
- DT3 Backed blade with acute angle truncation
- DT4 Backed blade with obtuse angle truncation
- DT5 Backed blade with irregular double truncation
- DT6 Backed blade with *piquant triedre*
- DT7 Backed blade with normal truncated base
- DT8 Backed blade with oblique truncated base

FIGURE 4:8
LAPLACE (1964a) PRIMARY TYPES: GEOMETRICS



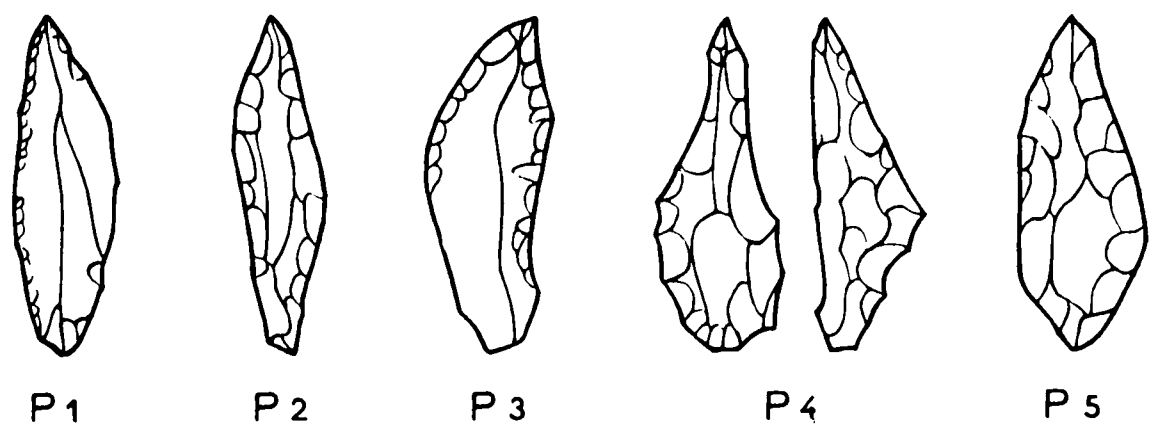
- Gm1 Semilunate
- Gm2 Trapezoidal segment
- Gm3 Scalene triangle
- Gm4 Isosceles triangle
- Gm5 Scalene trapeze
- Gm6 Isosceles trapeze
- Gm7 Rectangle trapeze
- Gm8 Rhomboid

FIGURE 4:9
 LAPLACE (1964a) PRIMARY TYPES: FOLIATES



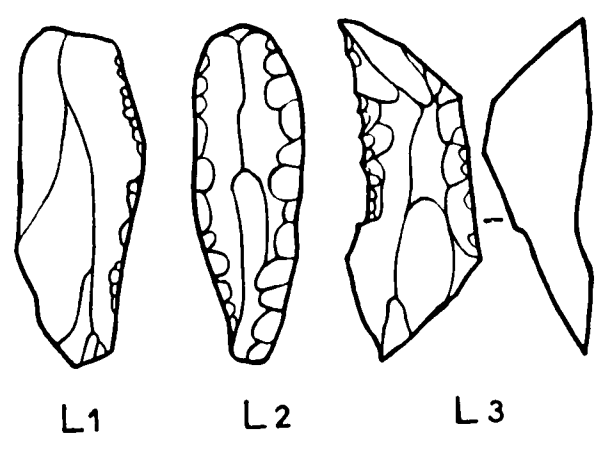
- F1 Unifacial foliate truncation
- F2 Unifacial offset foliate point
- F3 Unifacial upright foliate point
- F4 Unifacial foliate ogival point
- F5 Bifacial foliate piece
- F6 Foliate piece with truncated base
- F7 Pendunculate foliate piece
- F8 Shouldered foliate piece
- F9 Foliate geometric
- F10 Foliate endscraper

FIGURE 4:10
LAPLACE (1964a) PRIMARY TYPES: POINTS



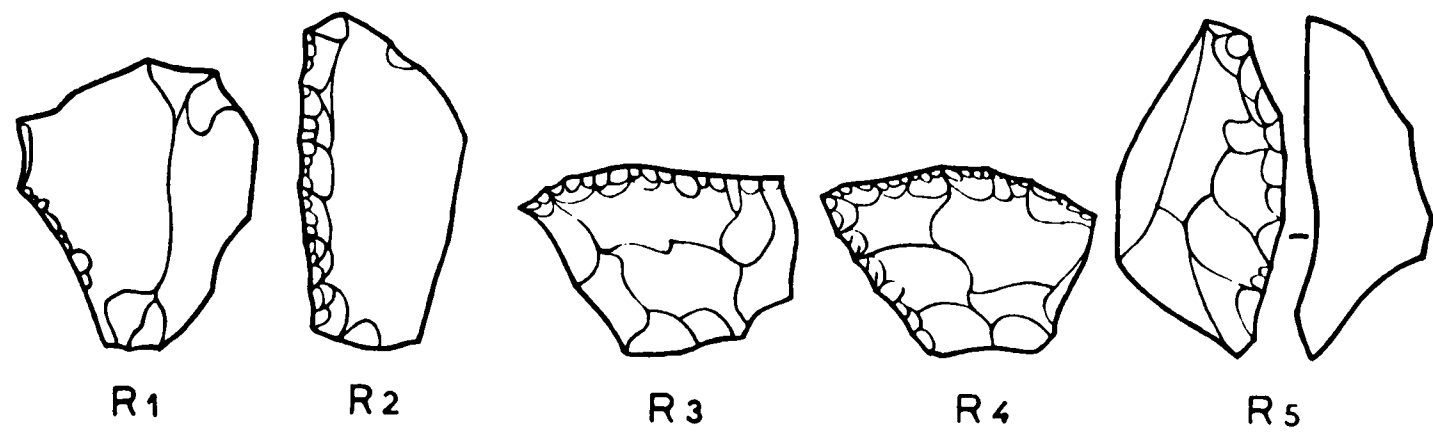
- P1 Point with marginal retouch
- P2 Upright point
- P3 Offset point
- P4 Shouldered point
- P5 Carinated point

FIGURE 4:11
LAPLACE (1964a) PRIMARY TYPES: BLADE-SCRAPERS



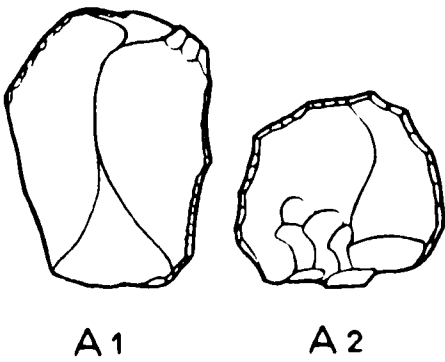
- L1 Blade-scraper with marginal retouch
- L2 Blade-scraper
- L3 Carinated blade-scraper

FIGURE 4:12
LAPLACE (1964a) PRIMARY TYPES: FLAKE-SCRAPERS



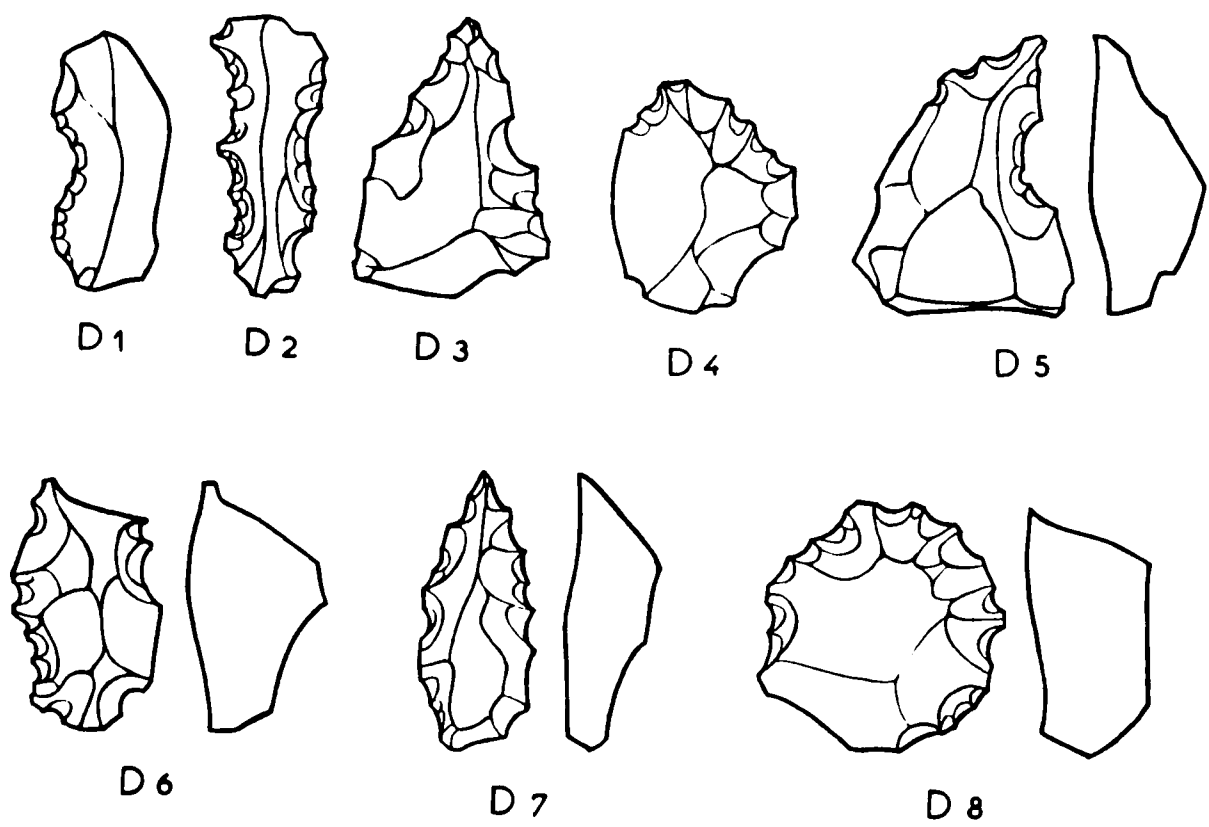
- R1 Flake-scraper with marginal retouch
- R2 Lateral flake-scraper
- R3 Transversal flake-scraper
- R4 Latero-transversal flake-scraper
- R5 Carinated endscraper

FIGURE 4:13
LAPLACE (1964a) PRIMARY TYPES: ABRUPTS



- A1 Thin abrupt
- A2 Thick abrupt

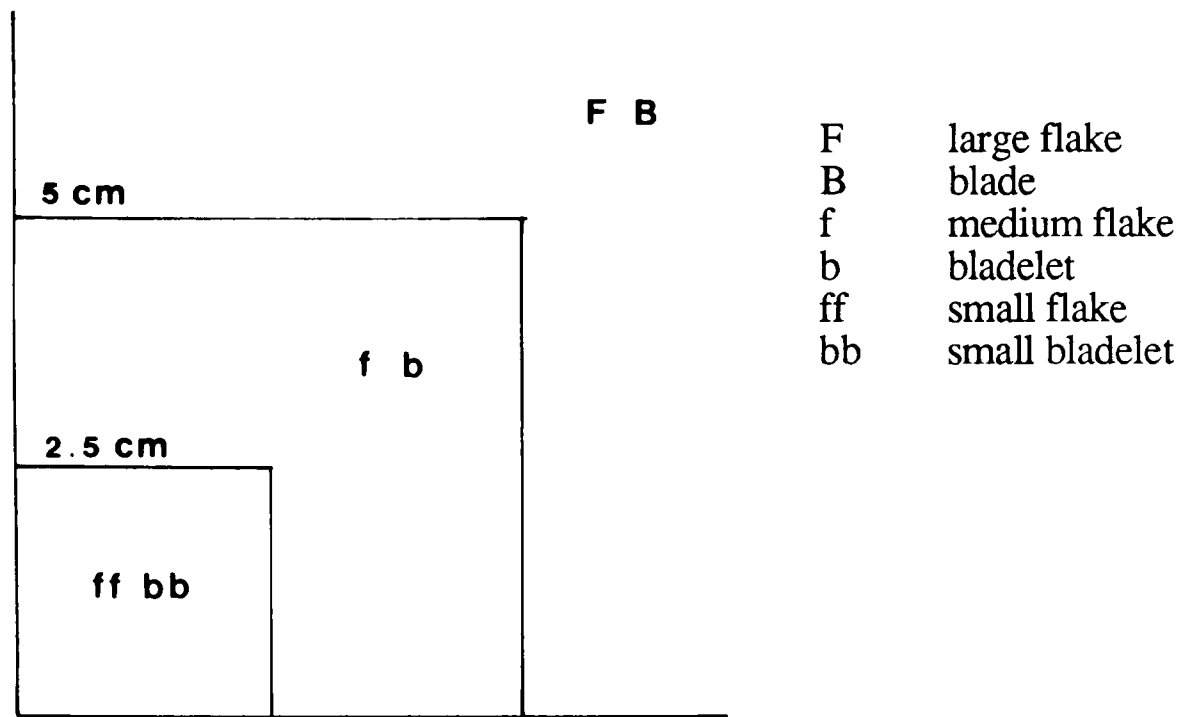
FIGURE 4:14
LAPLACE (1964a) PRIMARY TYPES: DENTICULATES



- D1 Notch
- D2 Denticulate sidescraper
- D3 Denticulate point
- D4 Denticulate endscraper
- D5 Carinated notch
- D6 Carinated denticulated sidescraper
- D7 Carinated denticulated point
- D8 Carinated denticulated endscraper

FIGURE 4:15
ATTRIBUTES OF THE BLANK

a) The size of the blank



b) The cross-section of the blank: thin and carinated

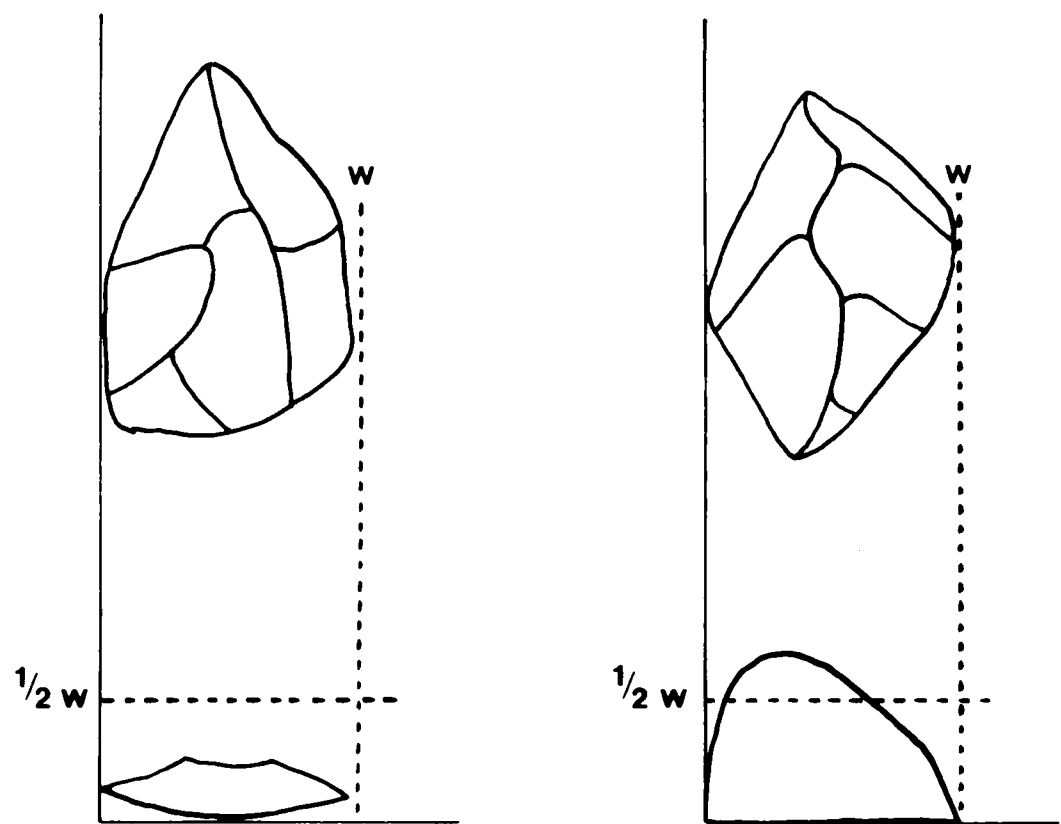
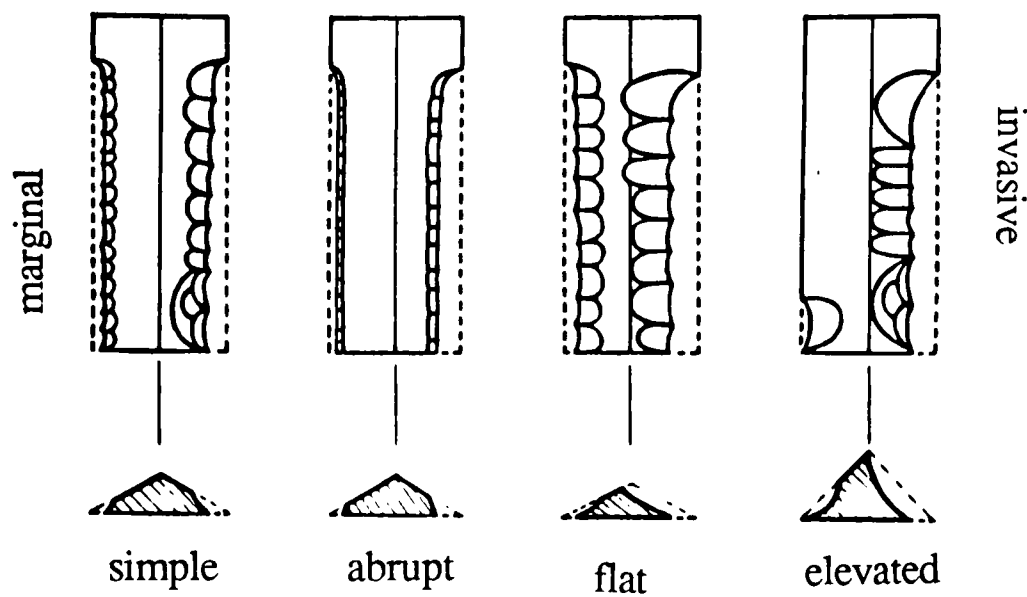
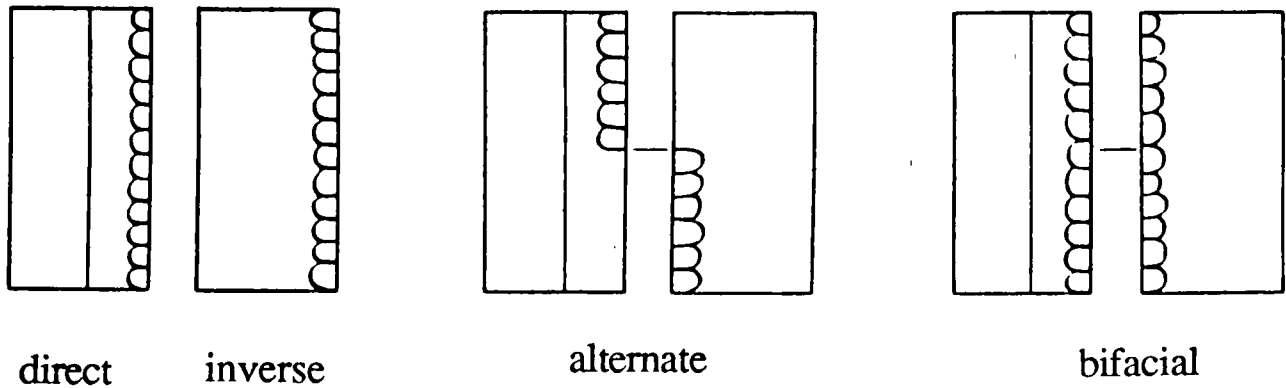


FIGURE 4:16
ATTRIBUTES OF THE RETOUCH

a) Angle and extent of the retouch



b) Direction of the retouch



c) Location of the retouch

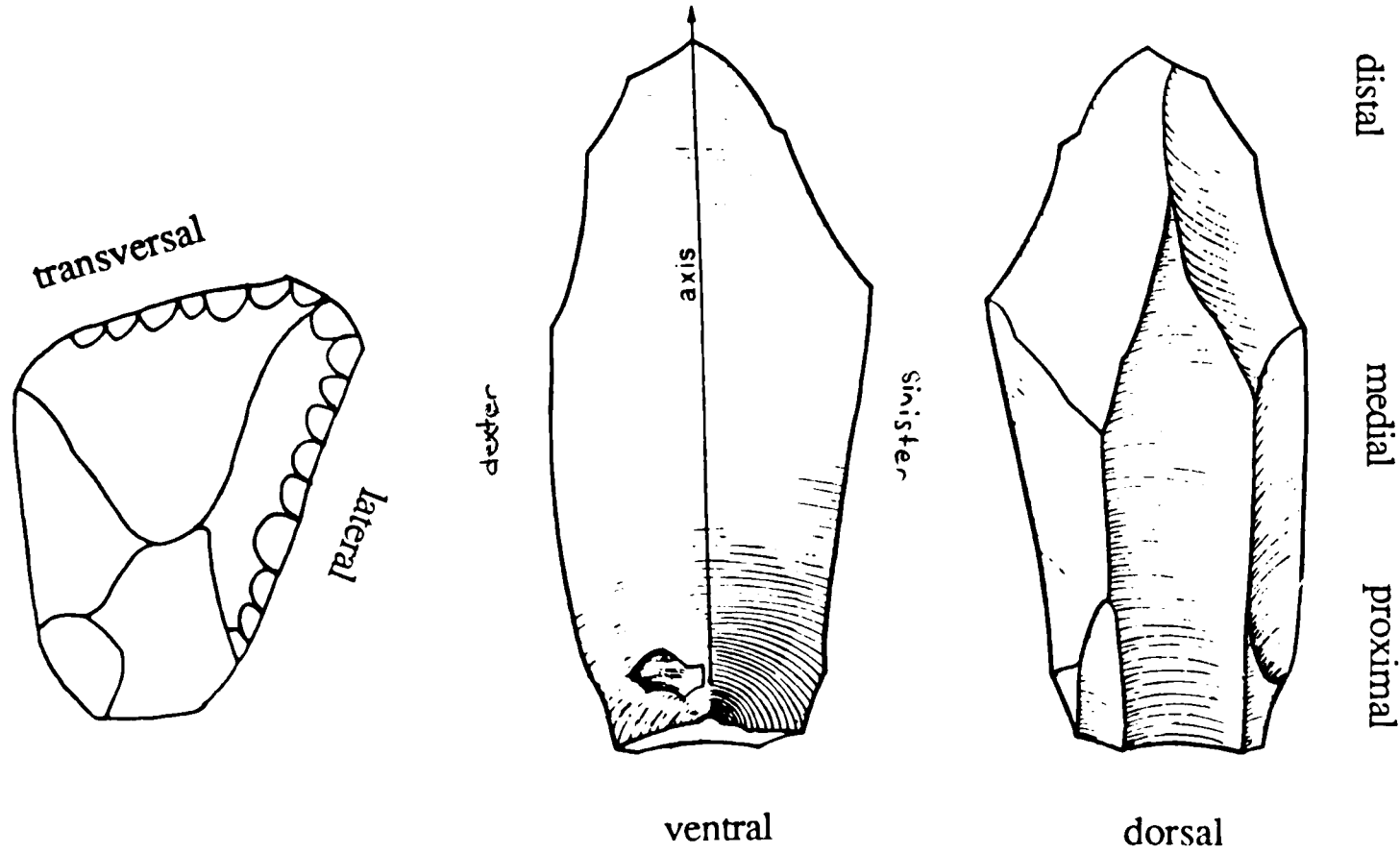
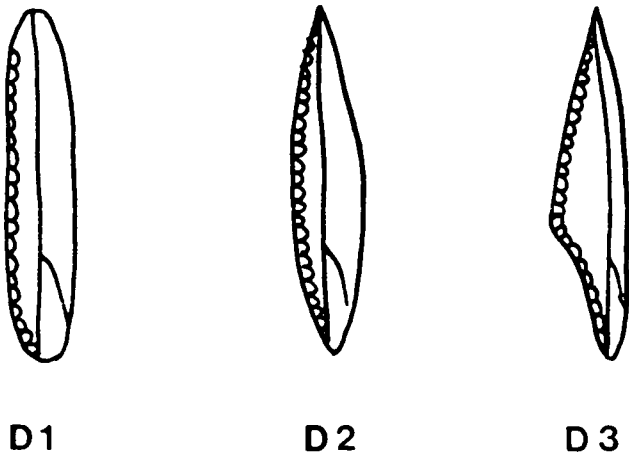


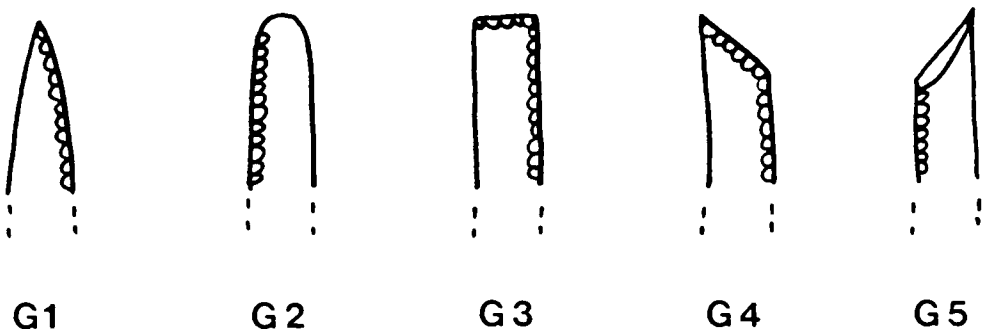
FIGURE 4:17
ATTRIBUTES OF THE BACKED BLADELETS

a) Morphology of the backed edge



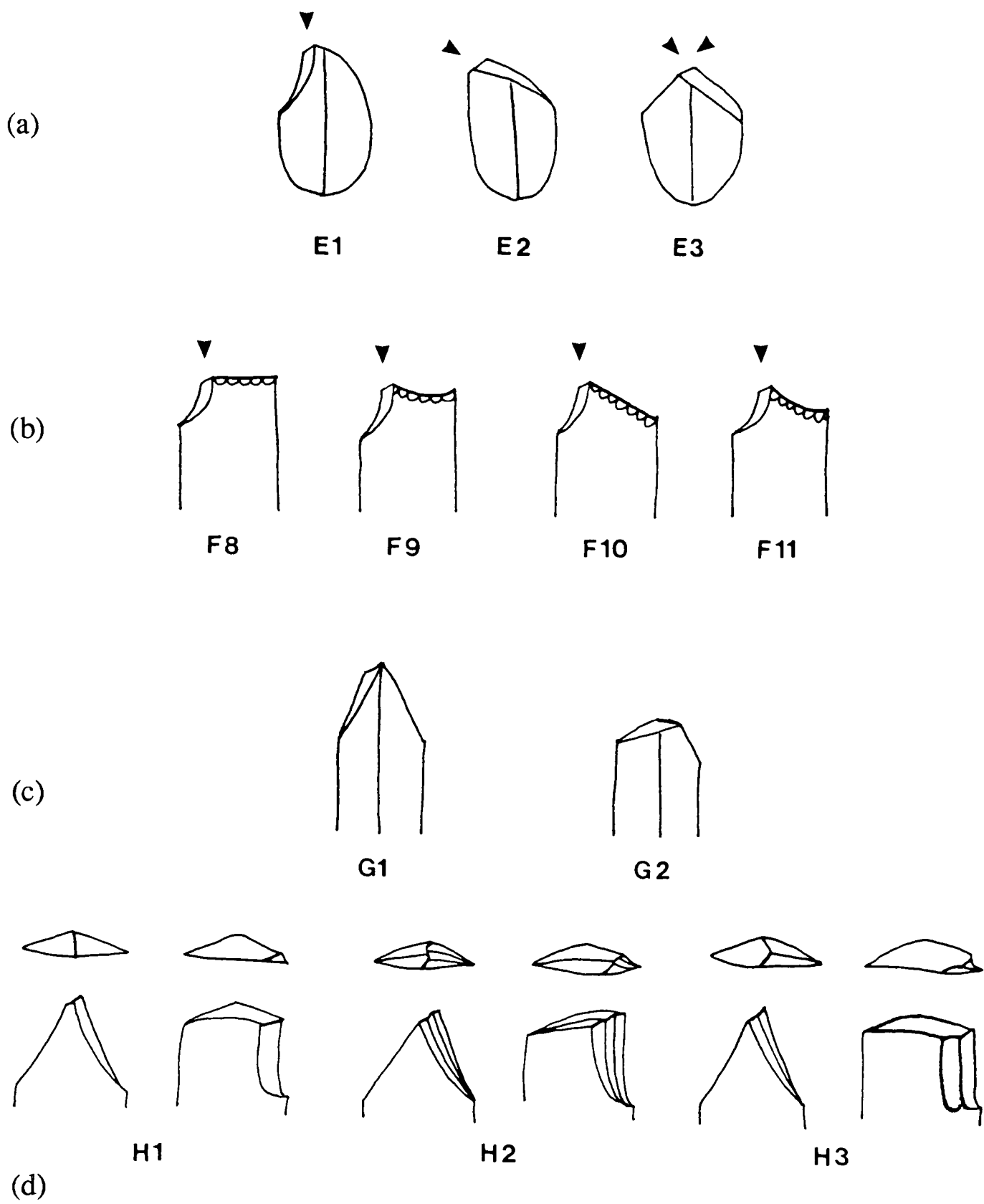
- | | |
|----|-------------|
| D1 | rectilinear |
| D2 | curved |
| D3 | shouldered |

b) Morphology of the distal end



- | | |
|----|------------------------|
| G1 | pointed |
| G2 | obtuse |
| G3 | right-angle truncation |
| G4 | oblique truncation |
| G5 | <i>piquant triedre</i> |

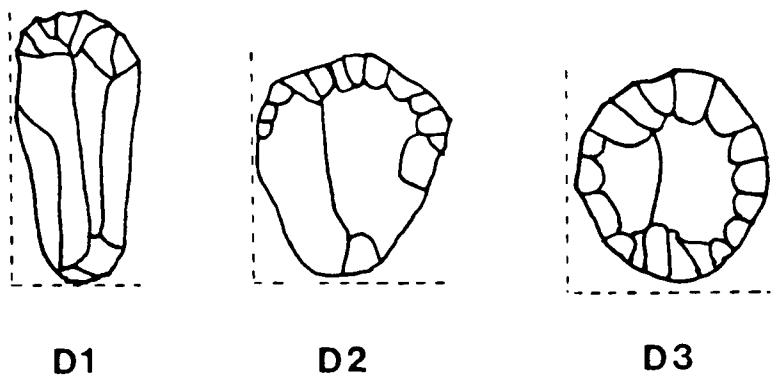
FIGURE 4:18
ATTRIBUTES OF THE BURINS



(a) The direction of the facet(s); (b) the primary modification; (c) the morphology of the burin profile; (d) the morphology of the facet convergence line

FIGURE 4:19
ATTRIBUTES OF THE ENDSCRAPERS

(a) The morphology of the blank



(b) The morphology of the scraping edge

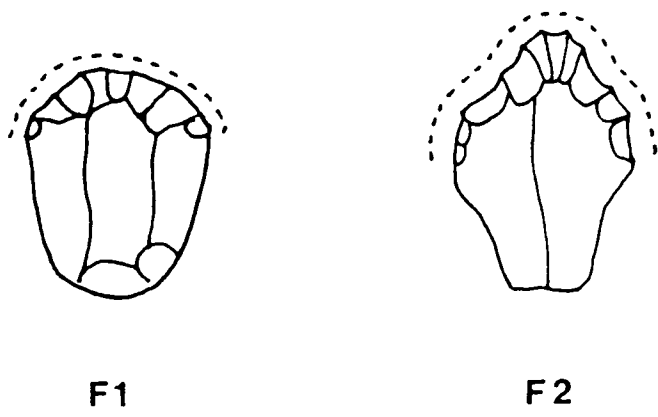
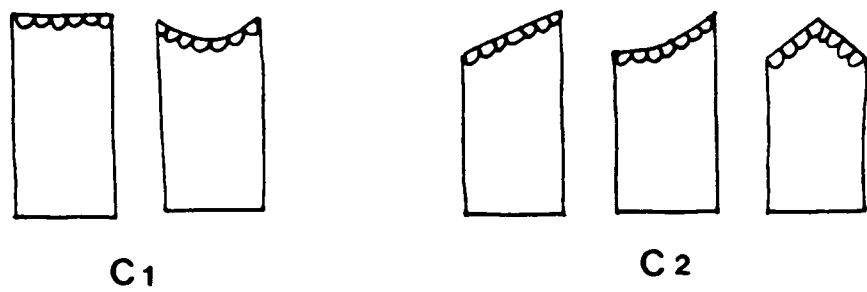


FIGURE 4:20
ATTRIBUTES OF THE TRUNCATIONS

(a) Angle of the truncation



(b) The morphology of the truncation

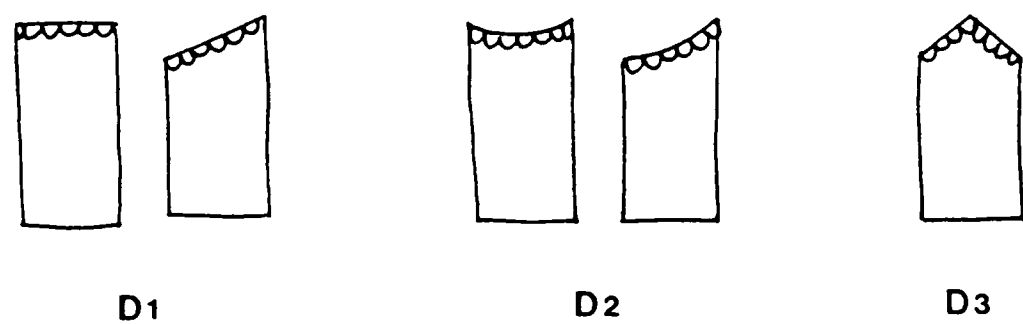


FIGURE 5:1
CIPOLLIANE: PLAN OF THE CAVE SHOWING THE EXCAVATED AREAS

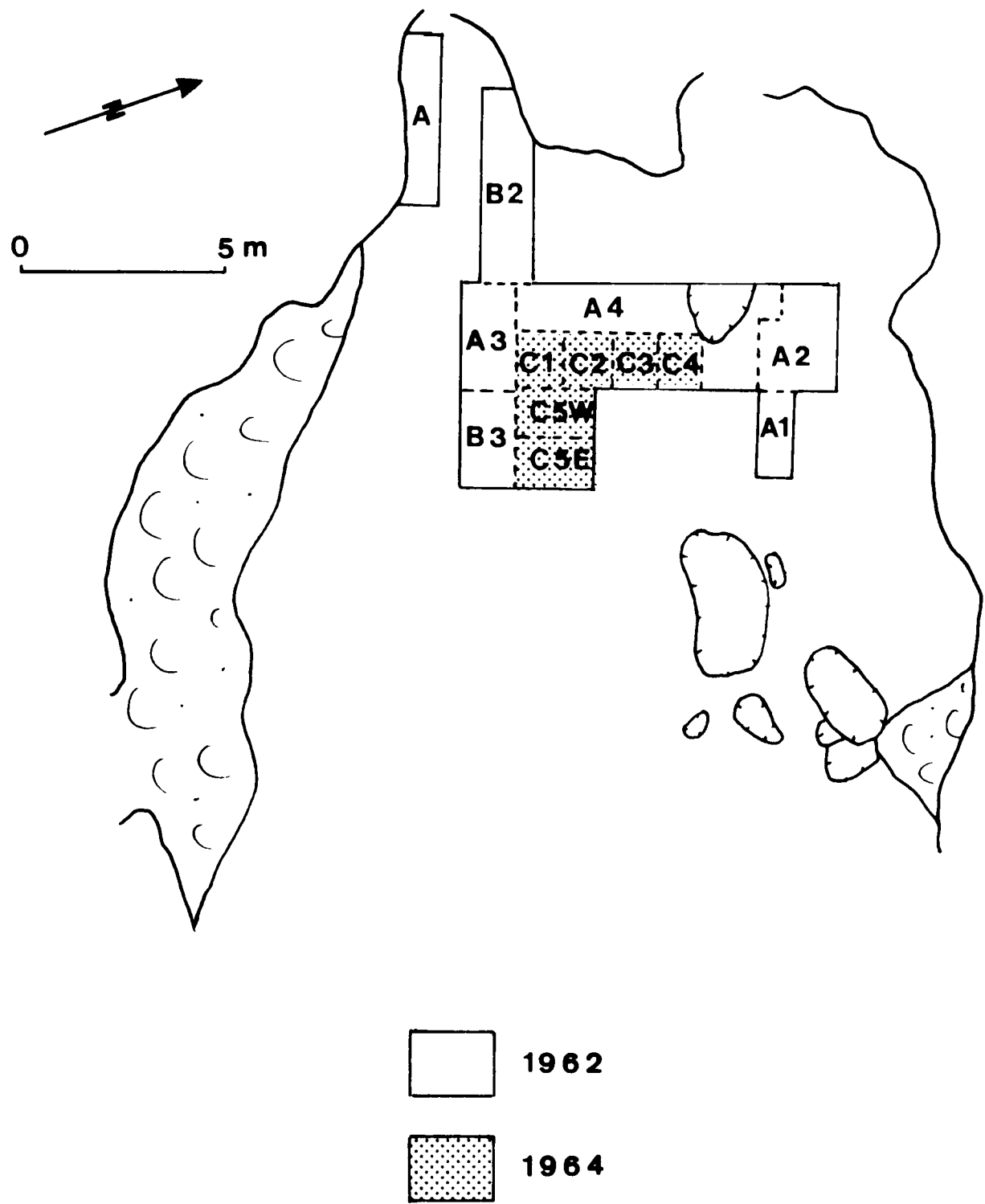


FIGURE 5:2
CIPOLLIANE: TOOL CLASSES IN LEVEL 4

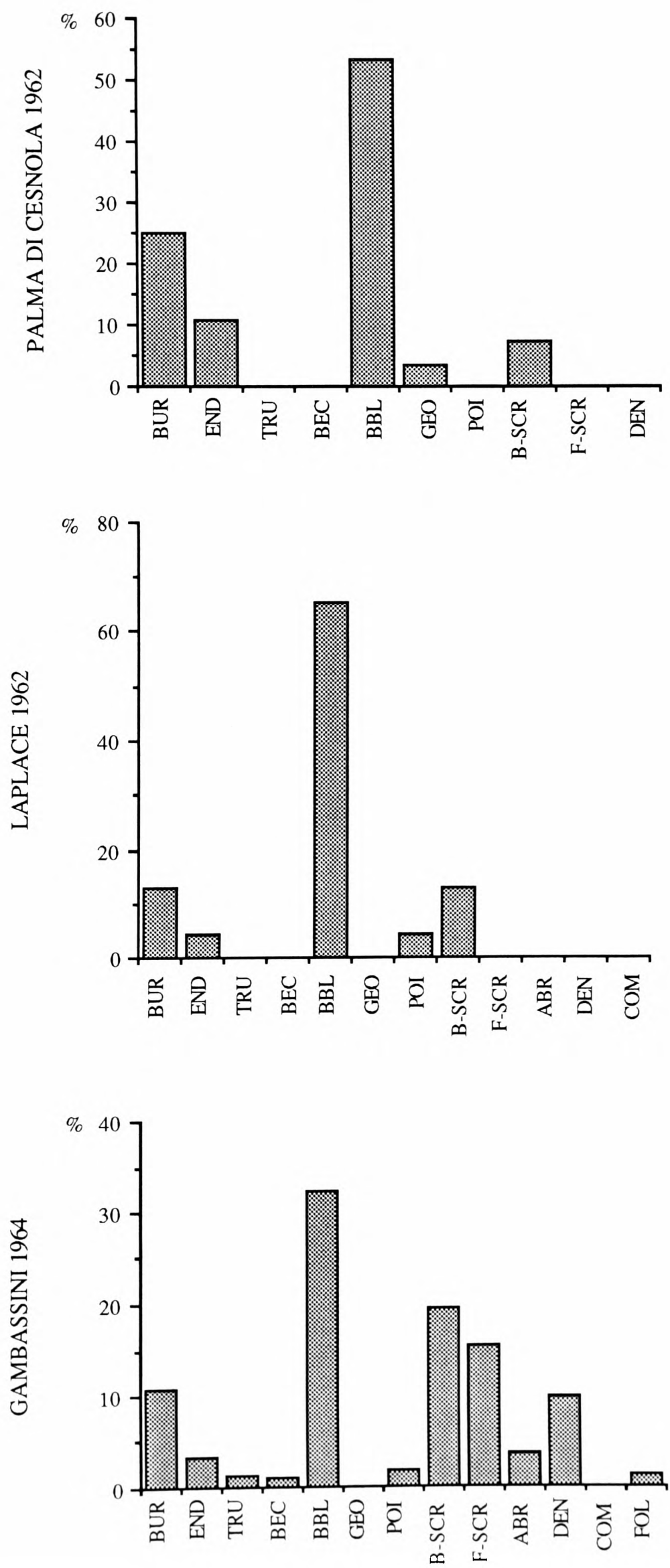


FIGURE 5:3
CIPOLLIANE: TOOL CLASSES IN LEVEL 3

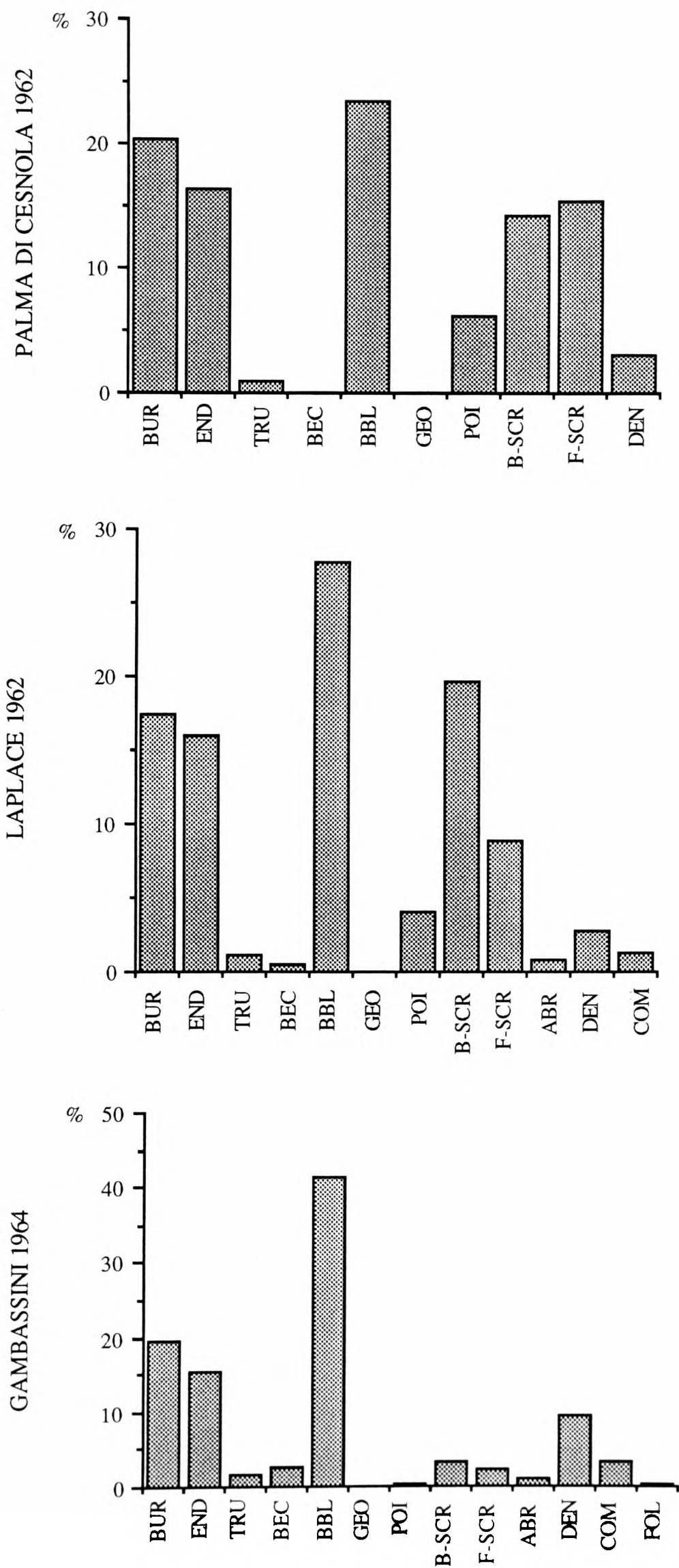


FIGURE 5:4
CIPOLLIANE: TOOL CLASSES IN LEVEL 2

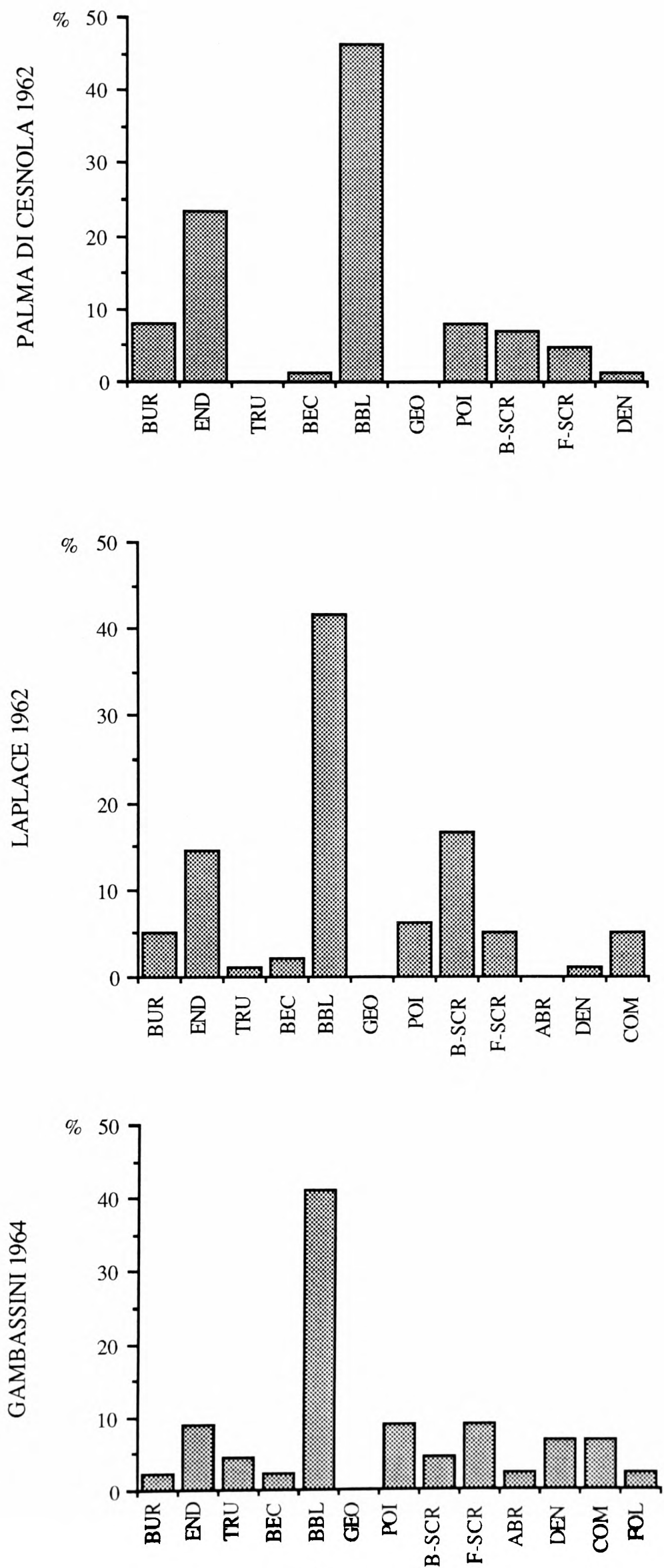


FIGURE 5:5
CIPOLLIANE: TOOL CLASSES IN LEVEL 1

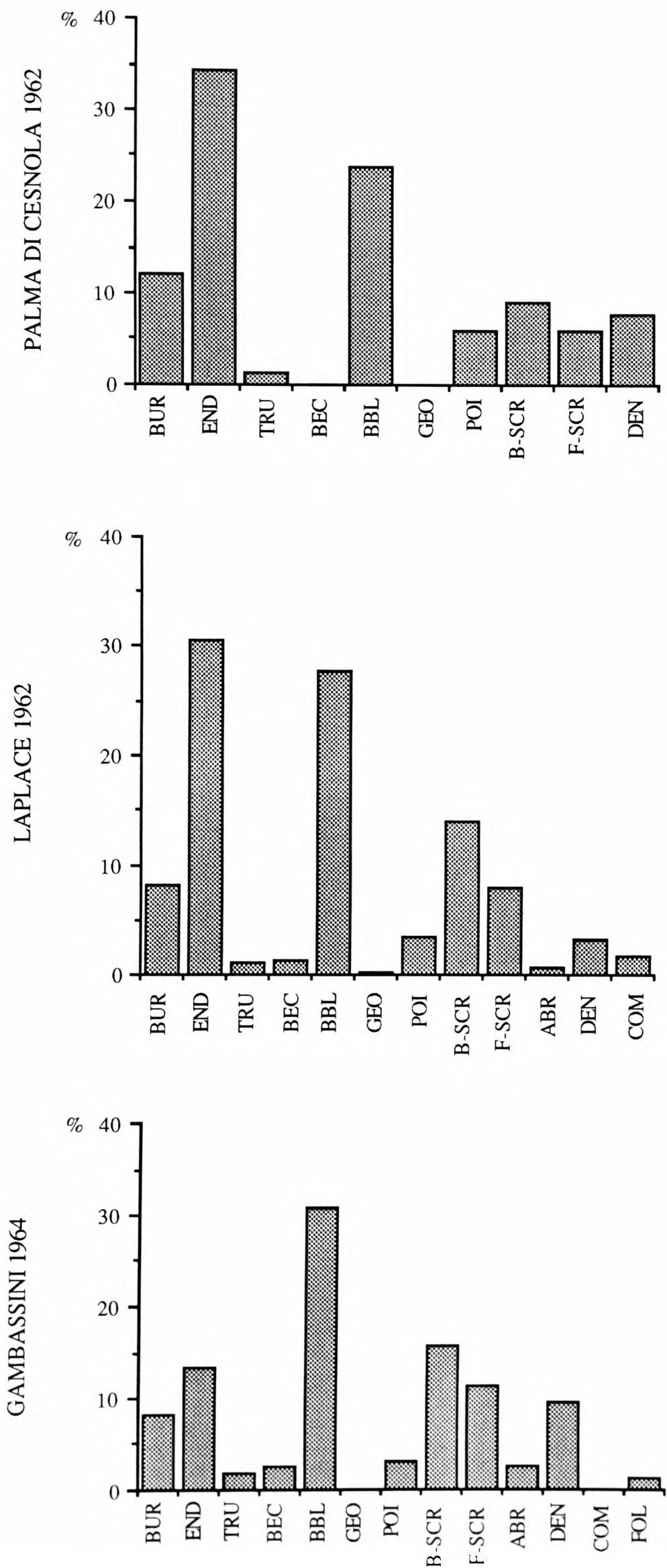


FIGURE 5:6
CIPOLLIANE: BACKED BLADELETS

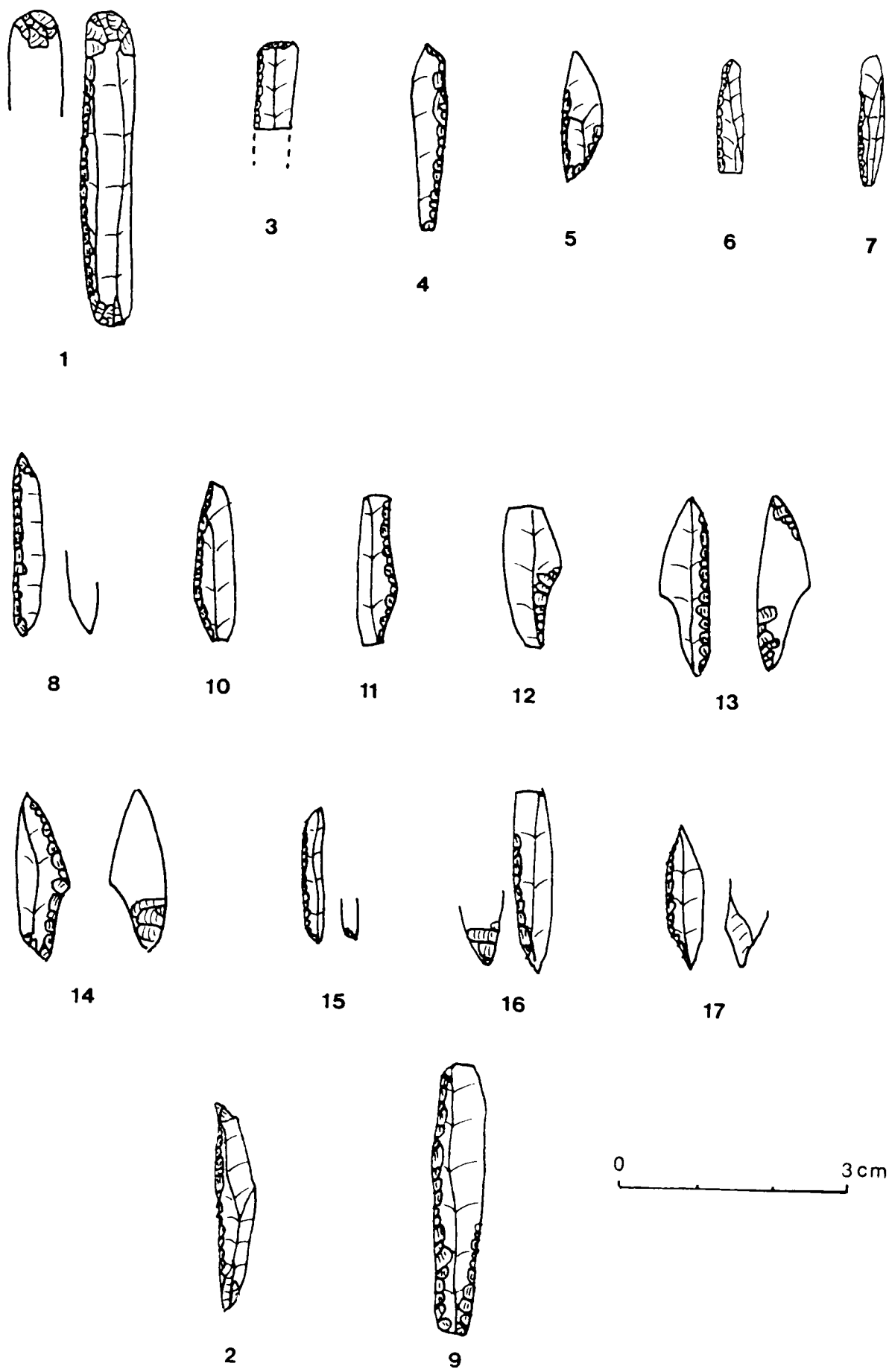


FIGURE 5:7
SELECTED POSSIBLE TRANSMUTATIONS BETWEEN LAPLACE'S
BACKED BLADELET TYPES

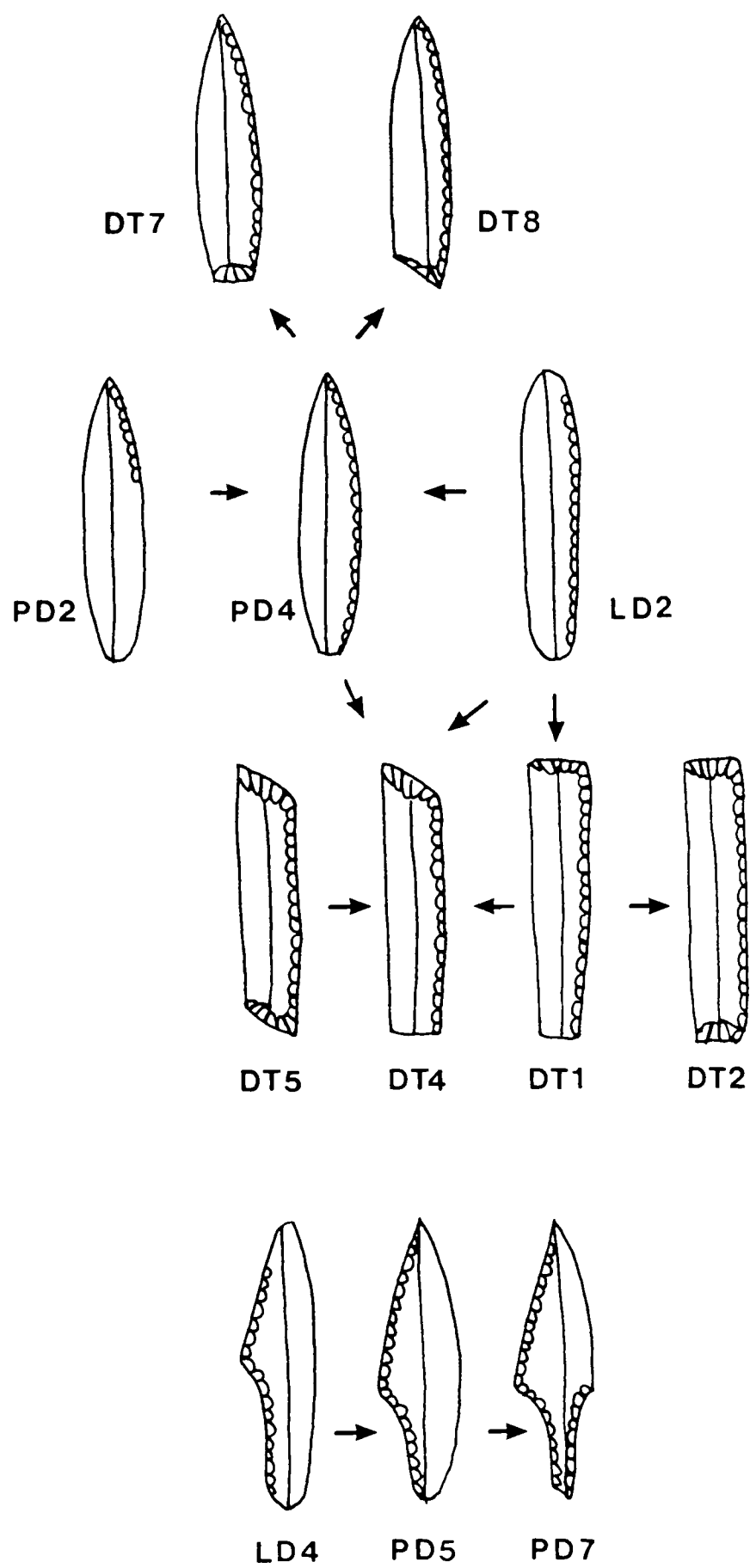


FIGURE 5:8
CIPOLLIANE: BURINS

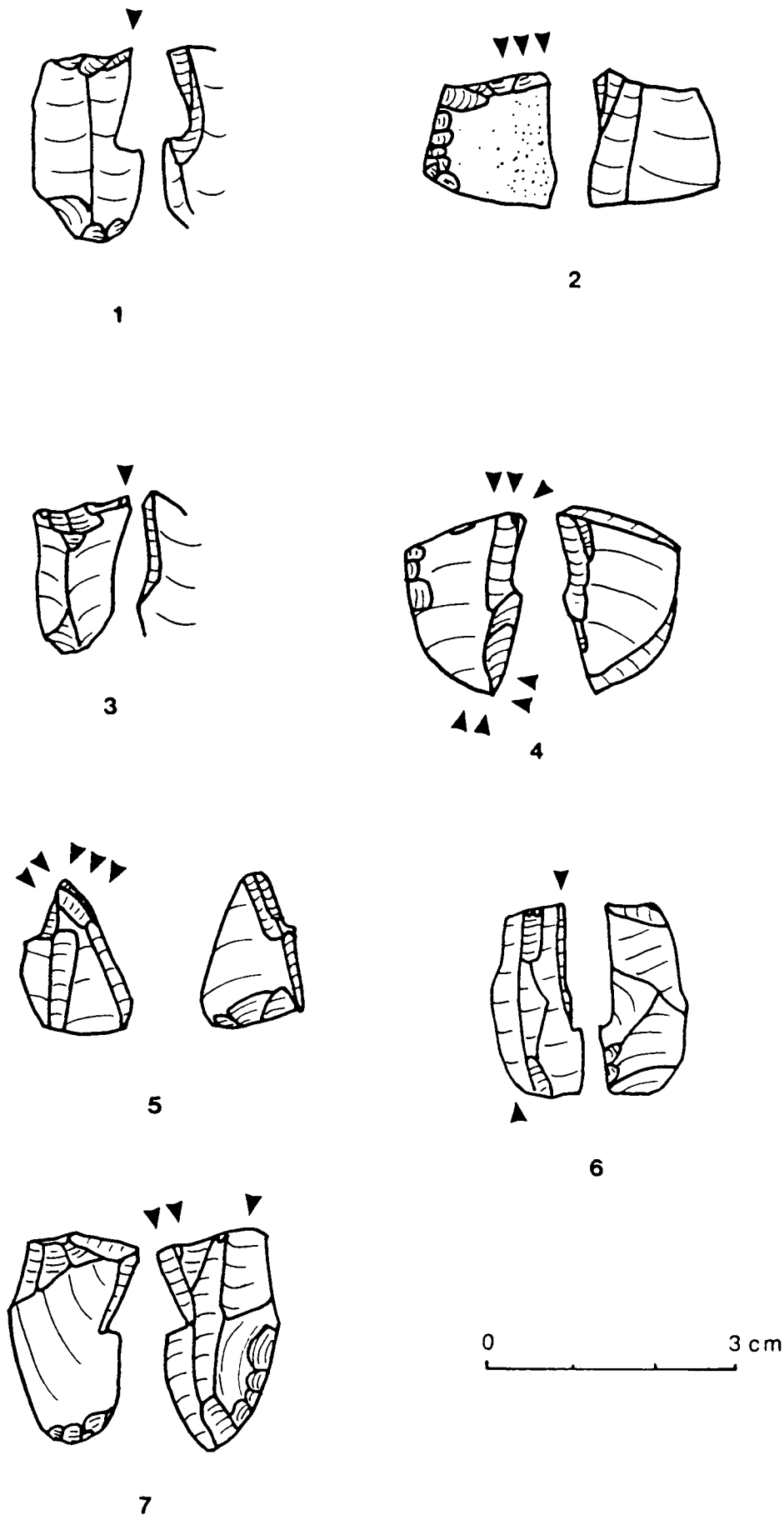


FIGURE 5:9
SELECTED POSSIBLE TRANSMUTATIONS BETWEEN LAPLACE'S BURIN
TYPES

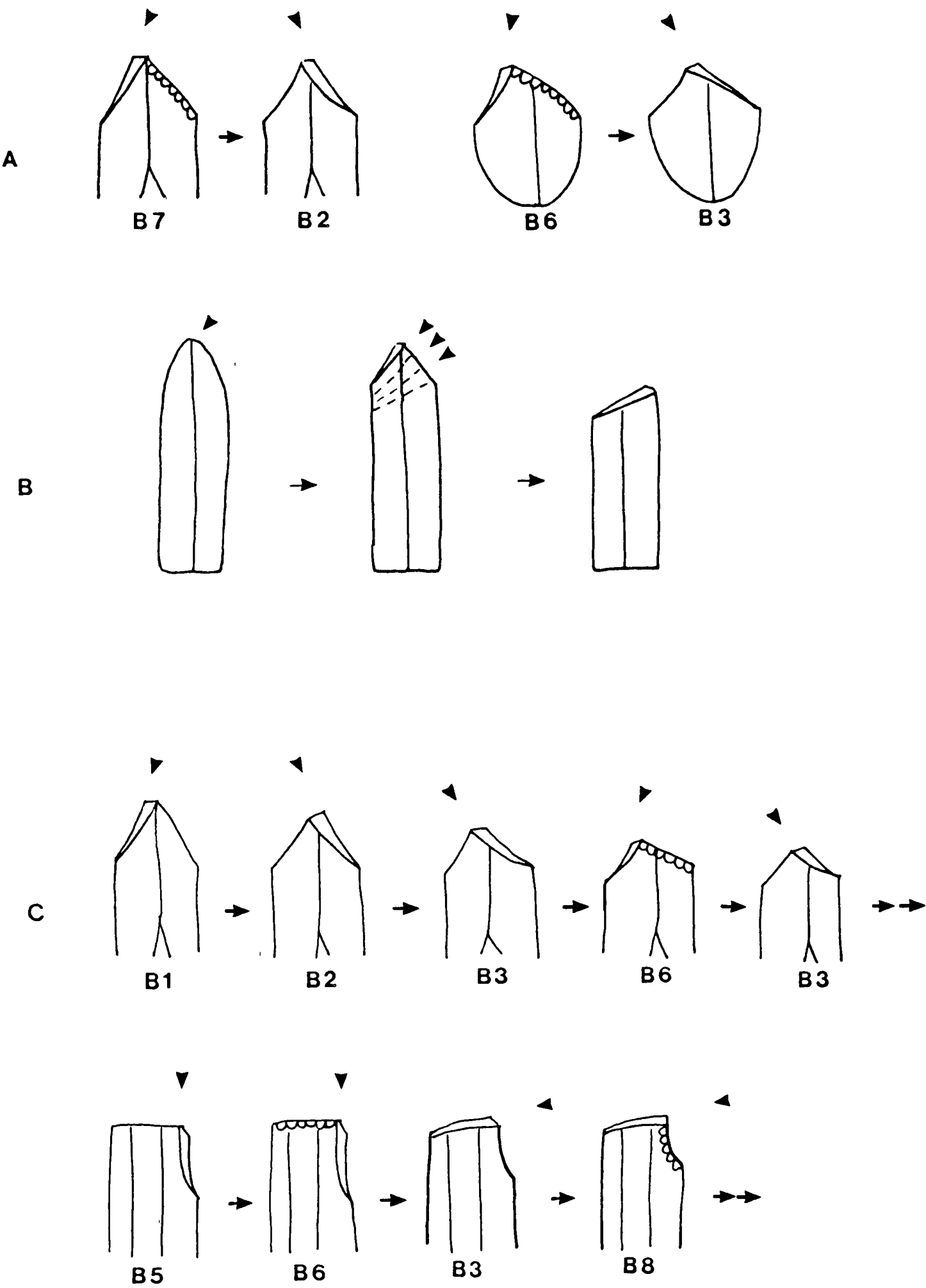


FIGURE 5:10
CIPOLLIANE: SCATTER-PLOT OF THE BURIN LENGTH/WIDTH
RELATIONSHIPS

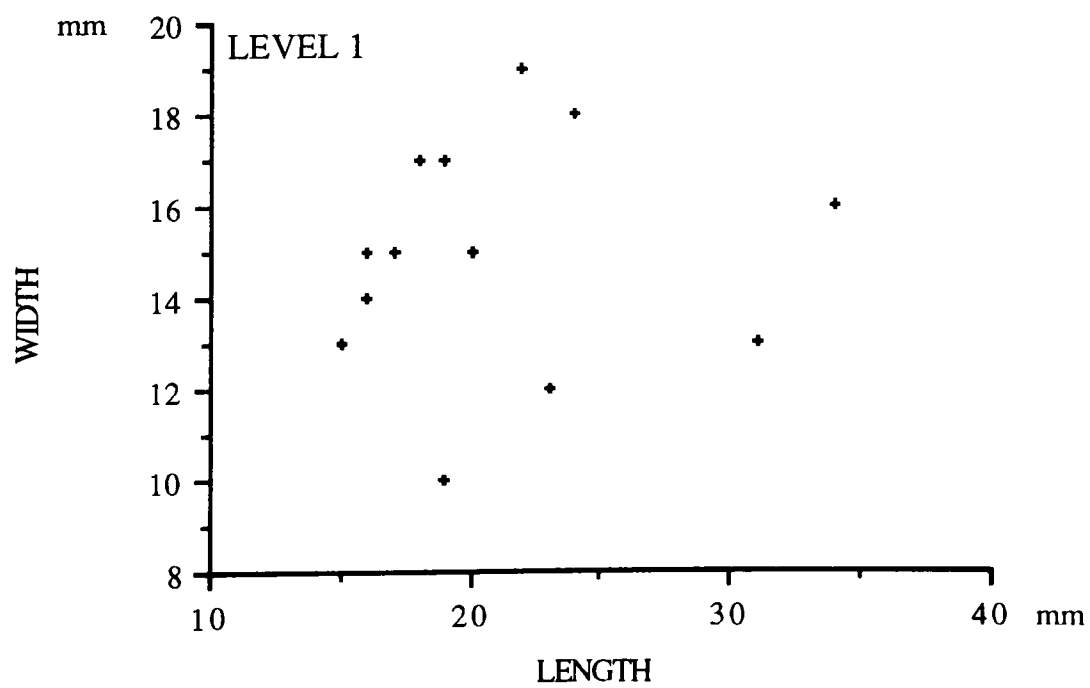
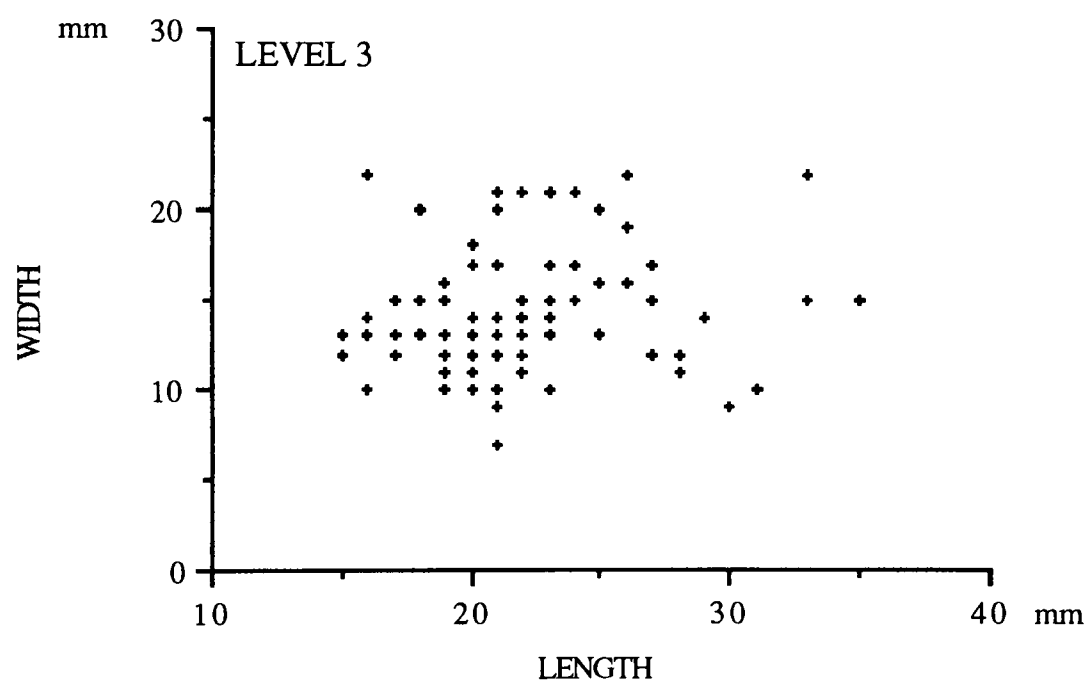
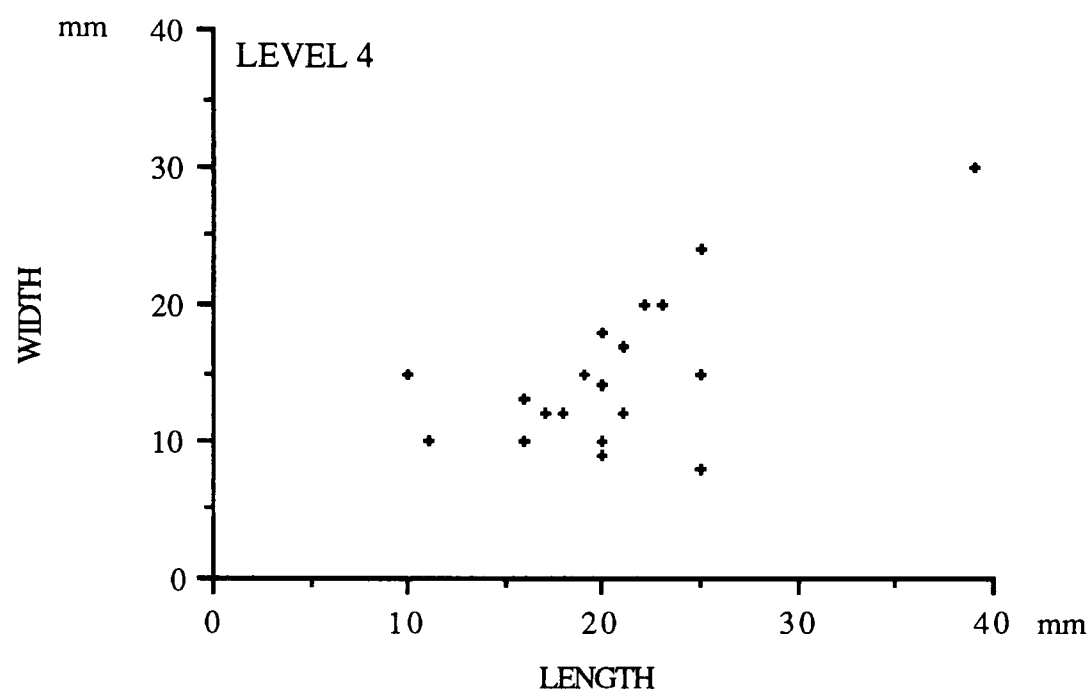


FIGURE 5:11
CIPOLLIANE: SCATTER-PLOT OF THE BURIN LENGTH/THICKNESS
RELATIONSHIPS

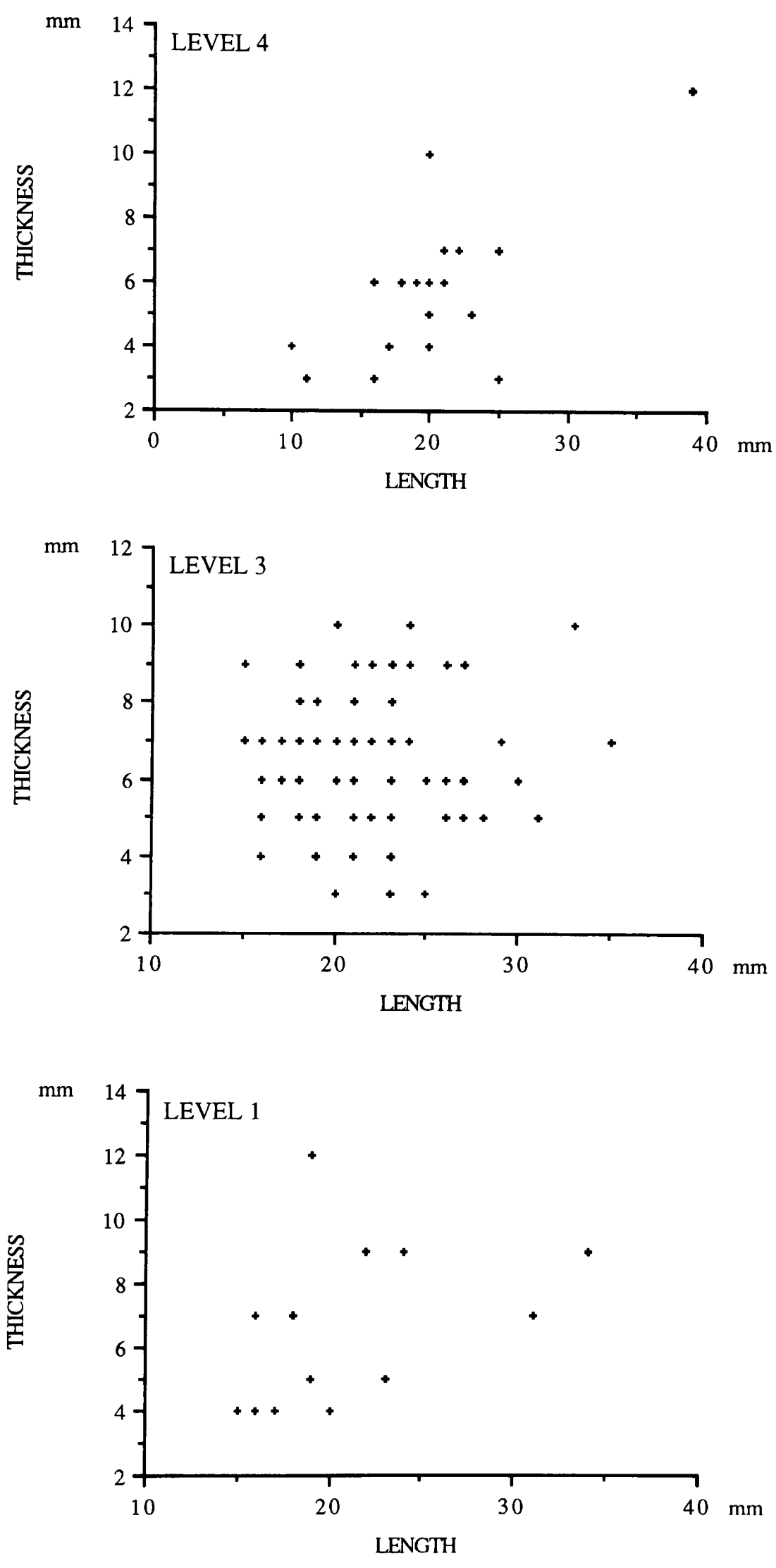


FIGURE 5:12
CIPOLLIANE: SCATTER-PLOT OF THE BURIN WIDTH/THICKNESS
RELATIONSHIPS

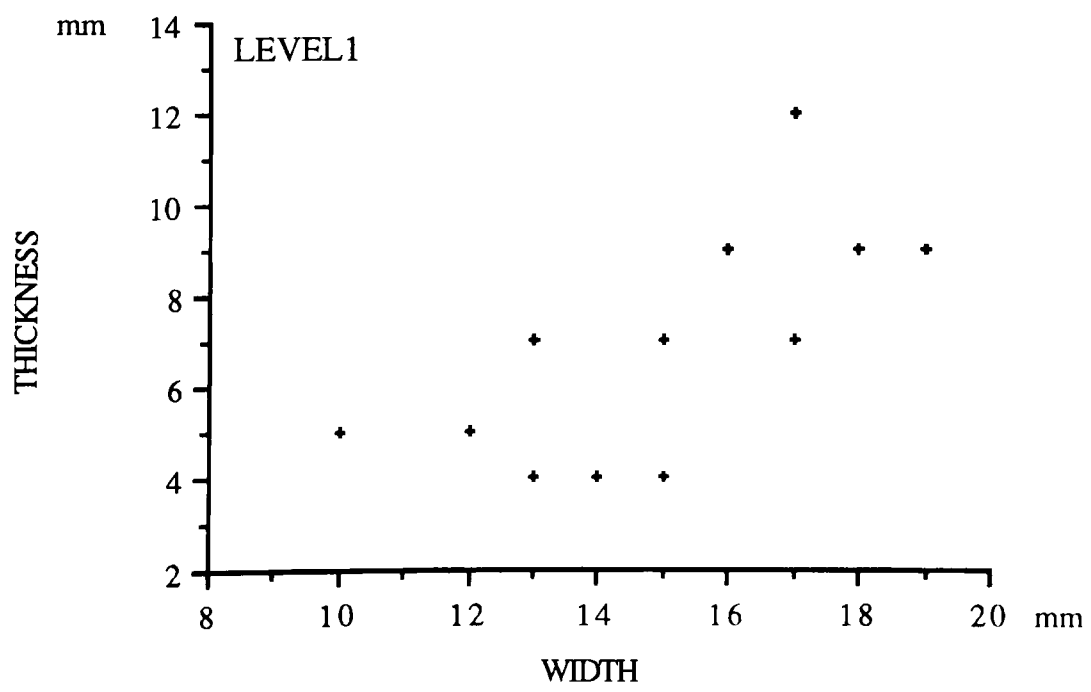
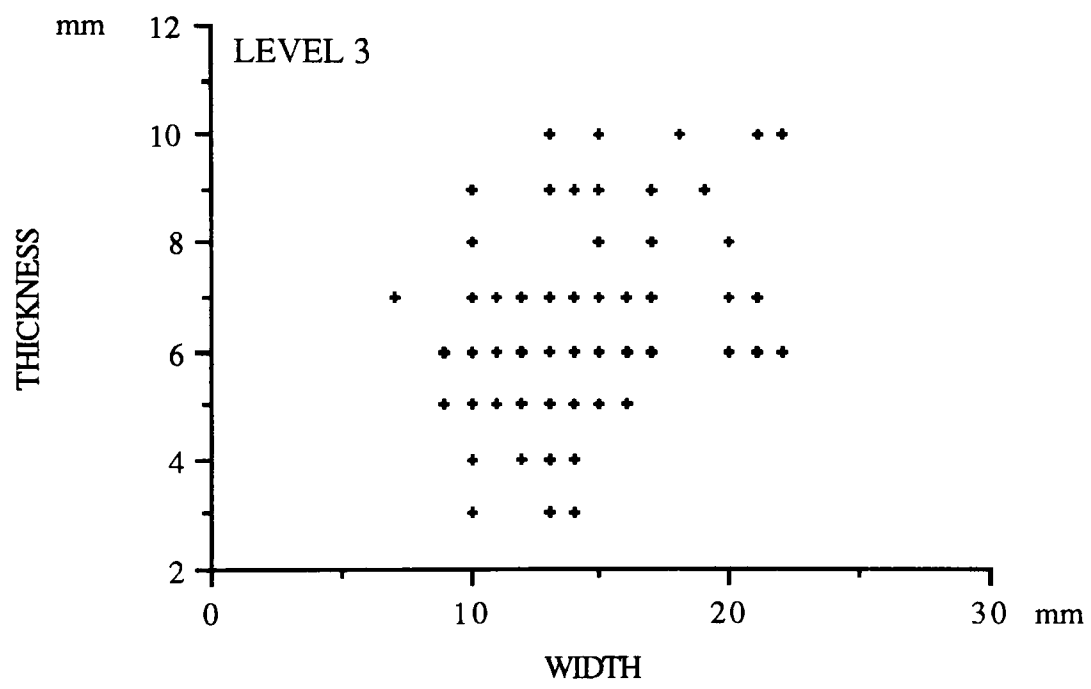
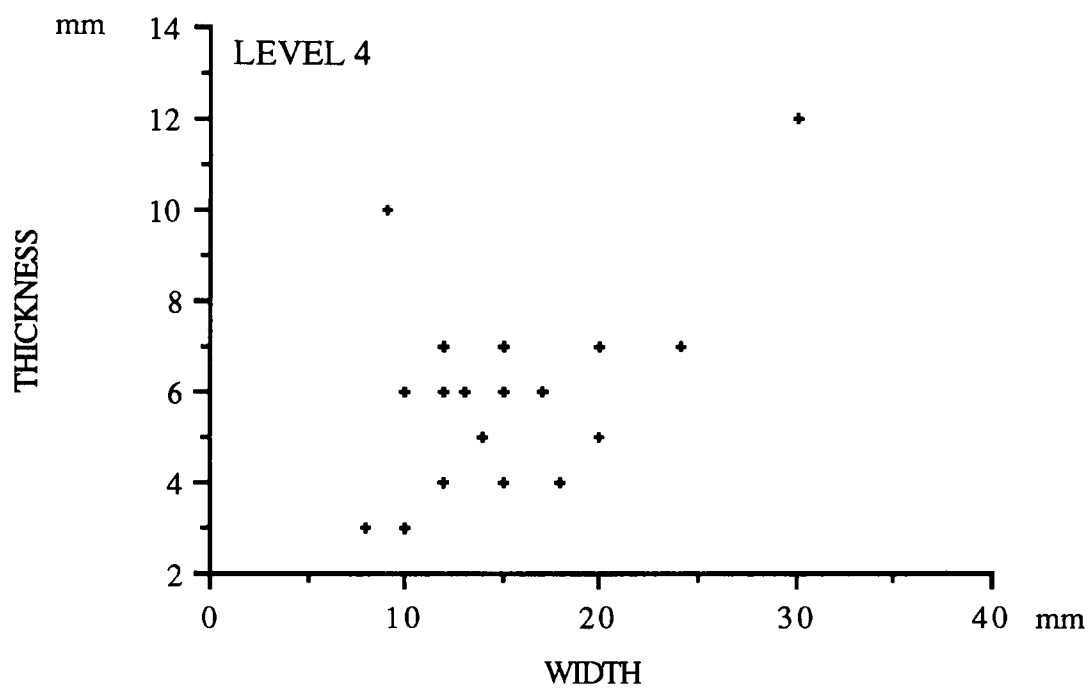


FIGURE 5:13
CIPOLLIANE: ENDSCRAPERS

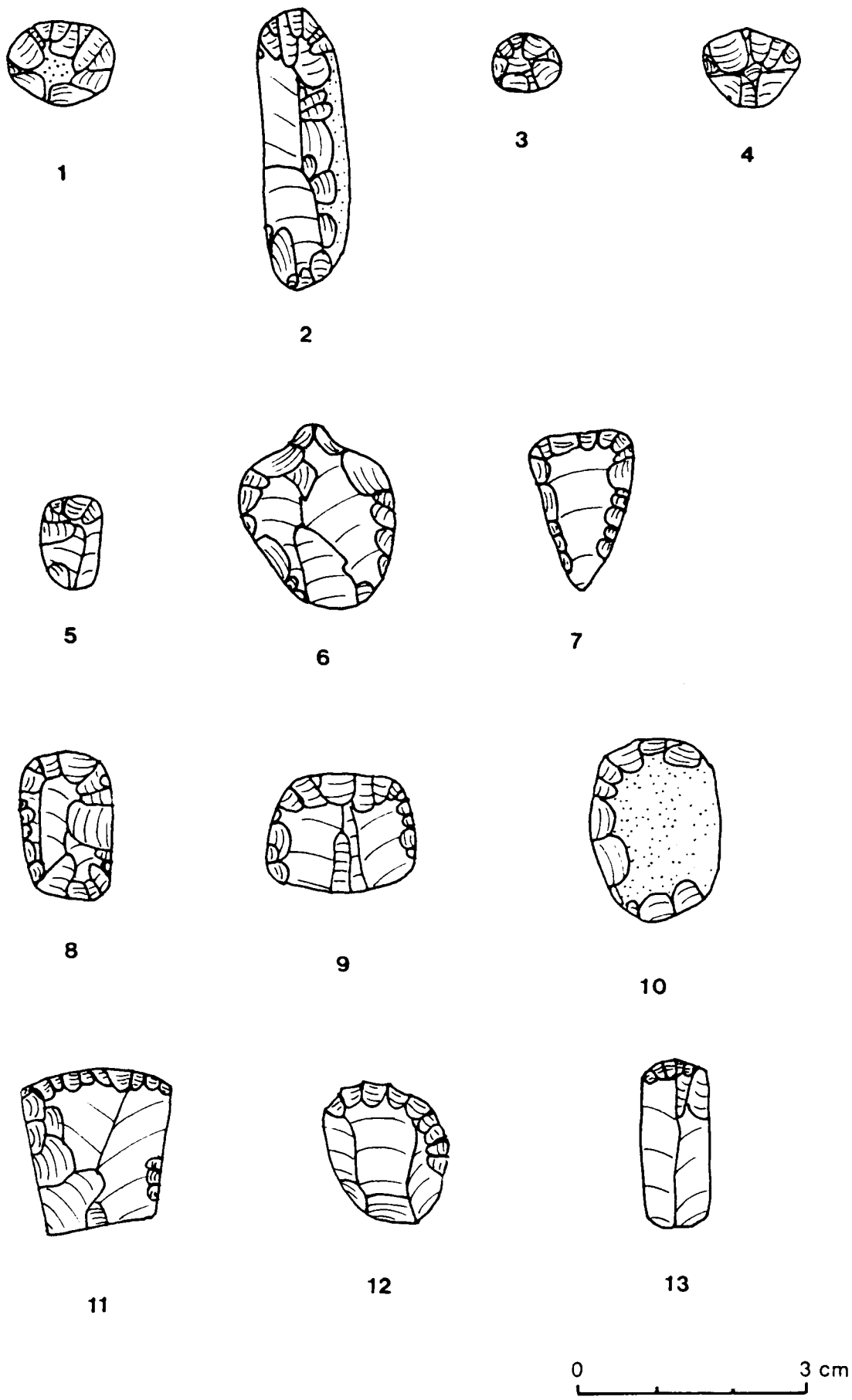
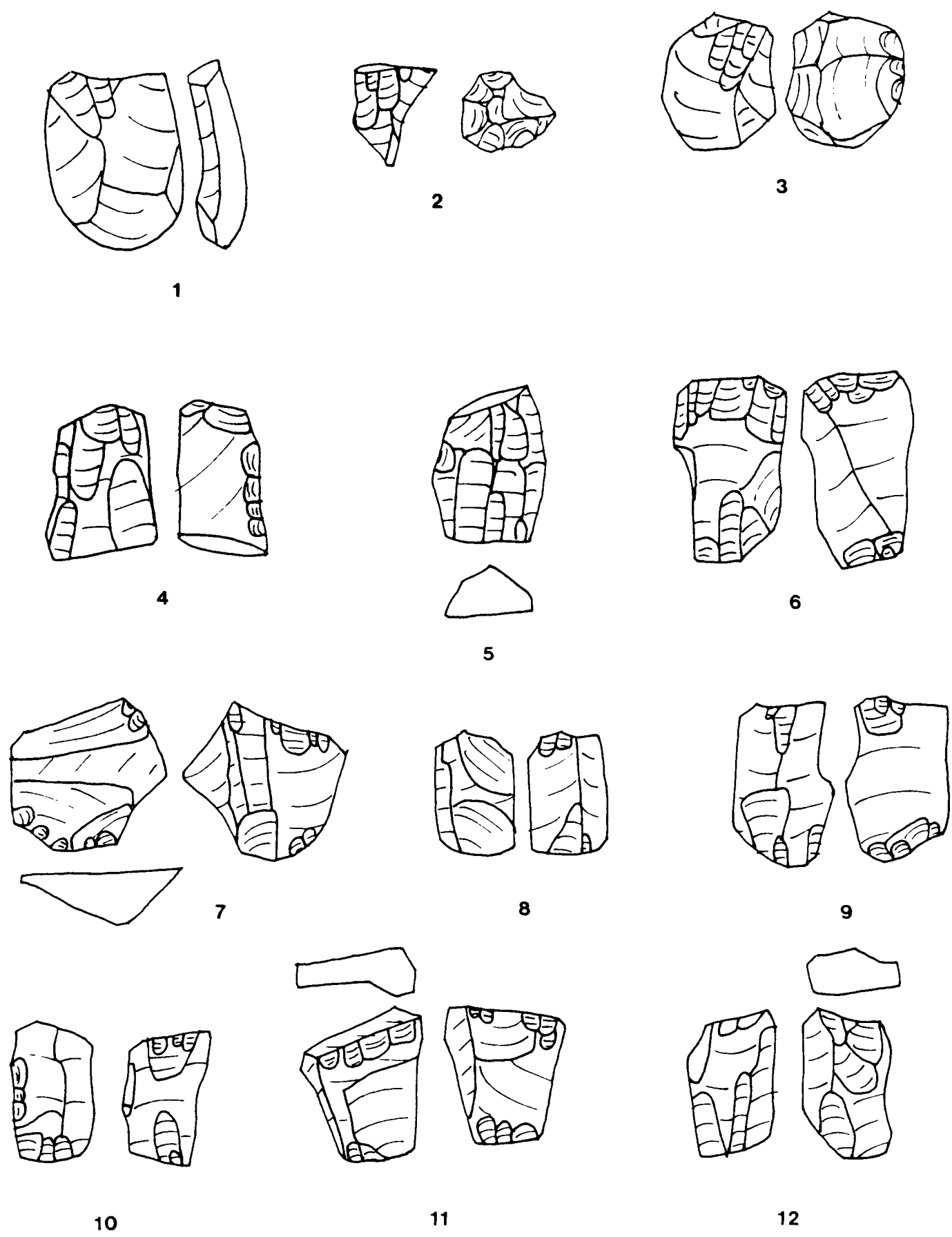


FIGURE 5:14
CIPOLLIANE: CORES



0 3 cm

FIGURE 6:1
TAURISANO: TOOL CLASSES

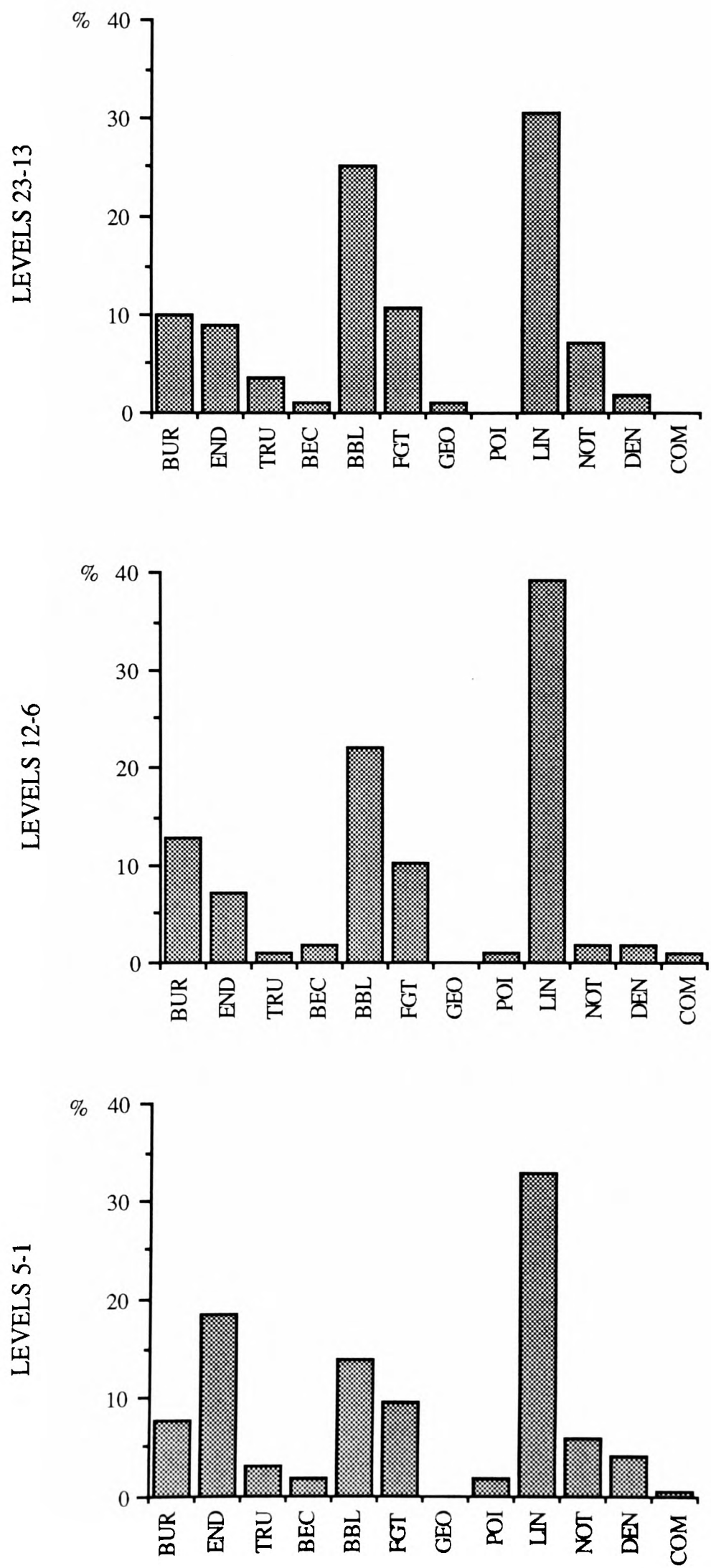
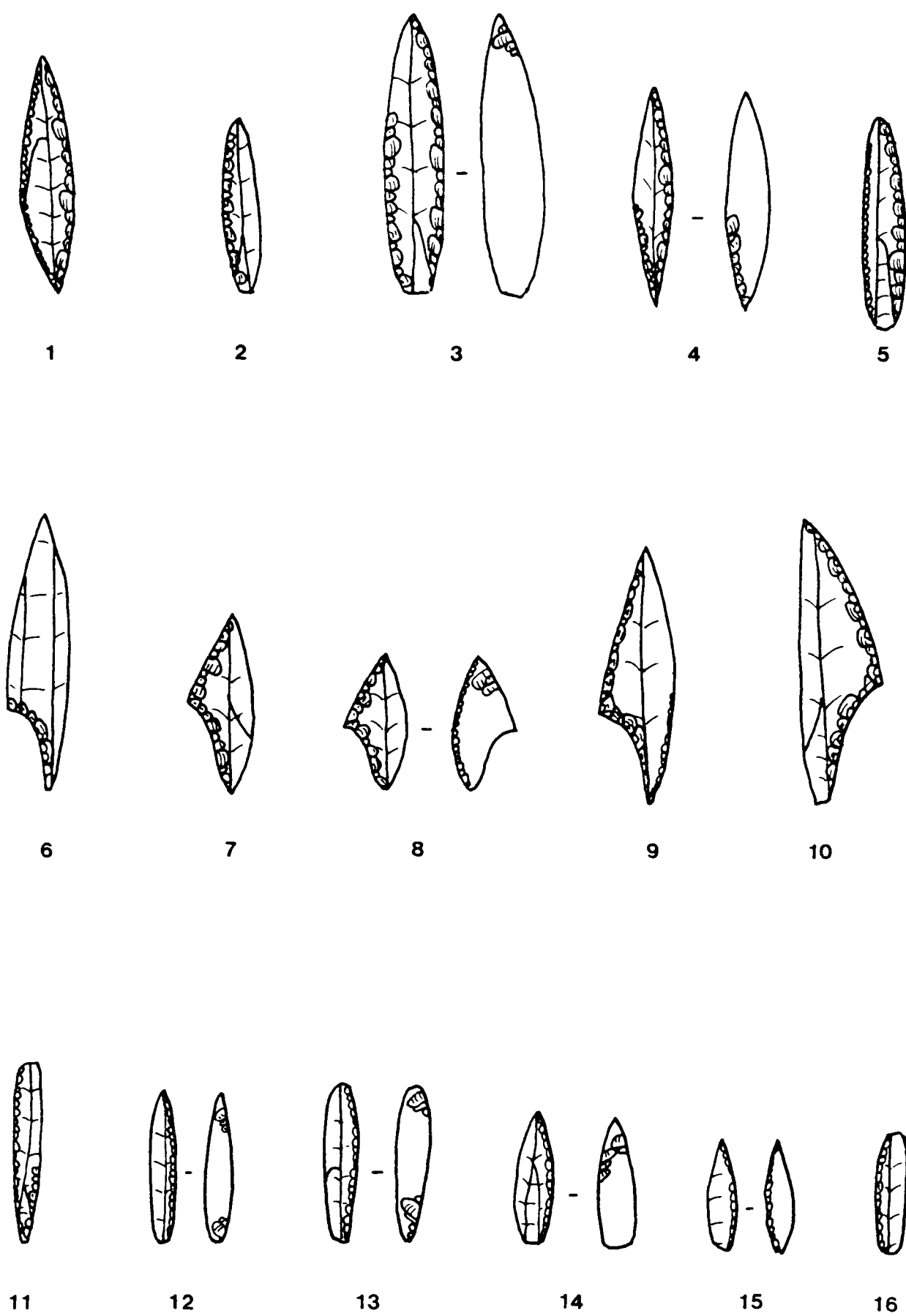


FIGURE 6:2
TAURISANO: BACKED BLADELETS



0 3 cm

FIGURE 6:3
TAURISANO: CORES

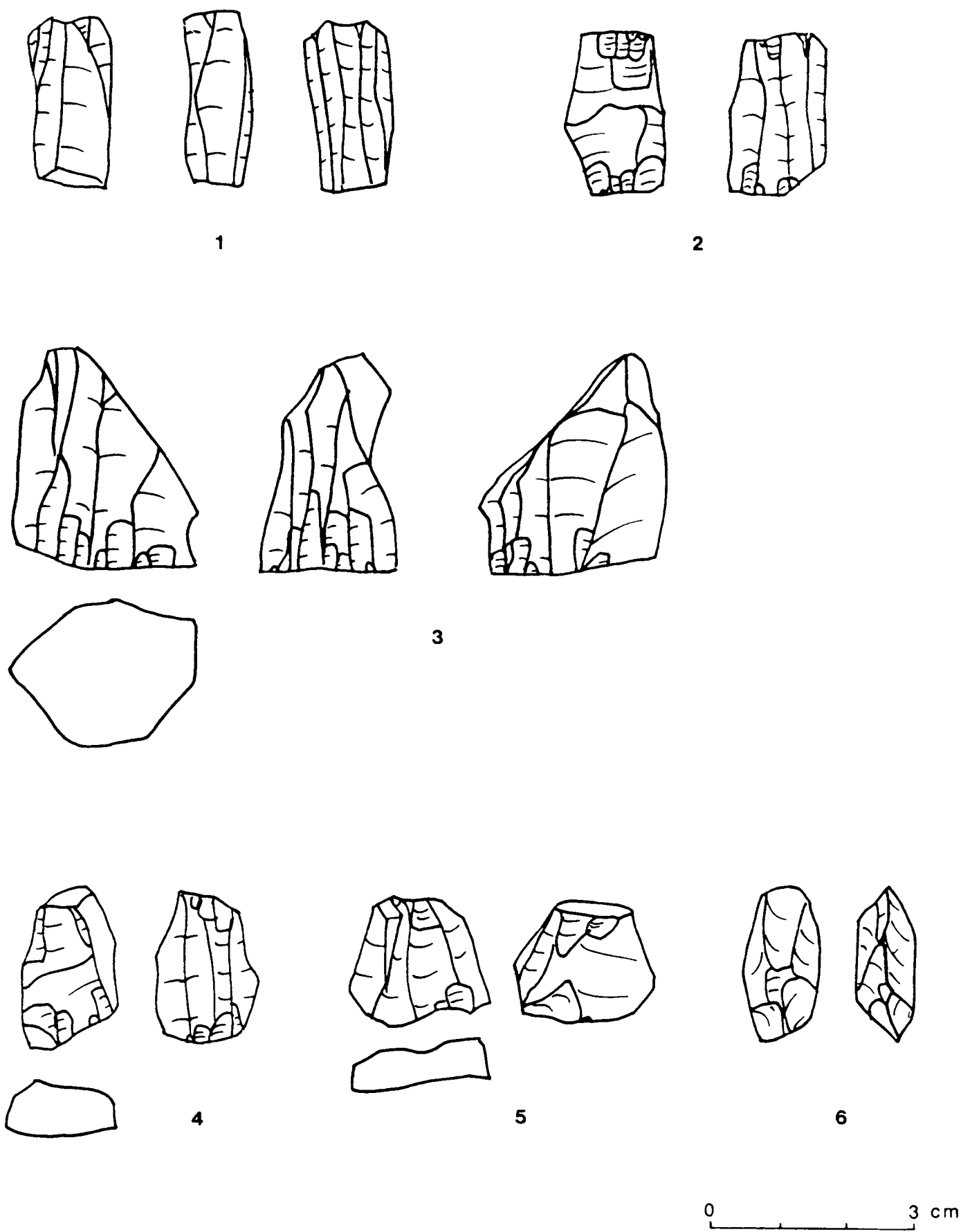


FIGURE 6:4
UGENTO: TOOL CLASSES

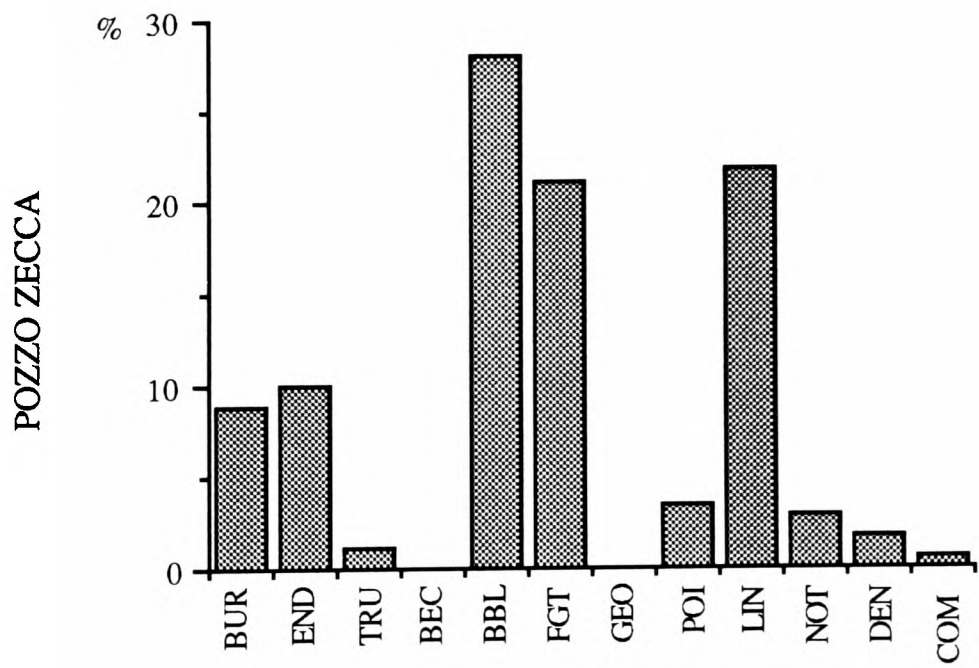
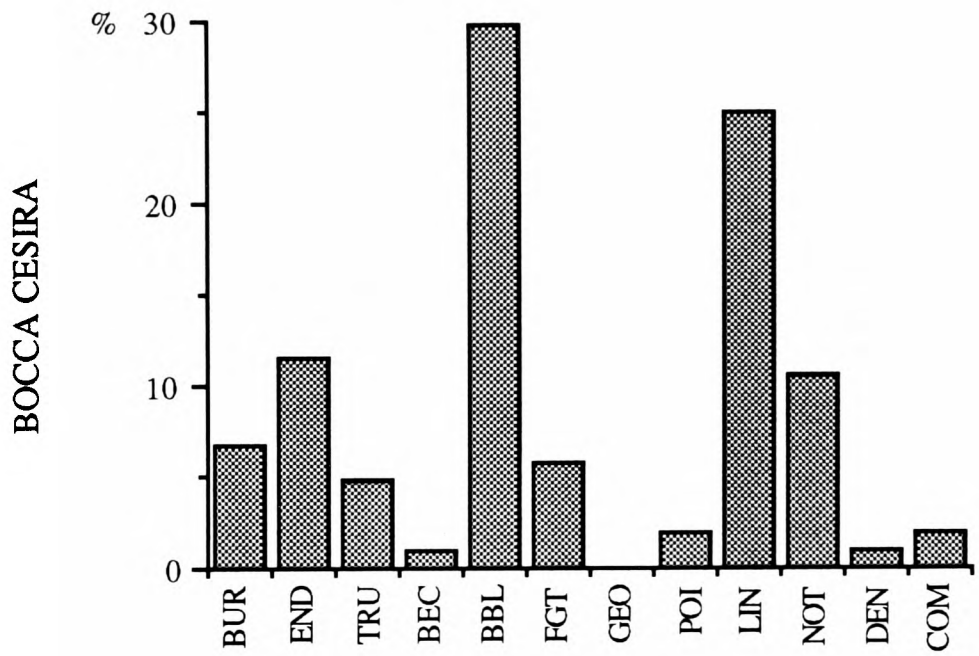
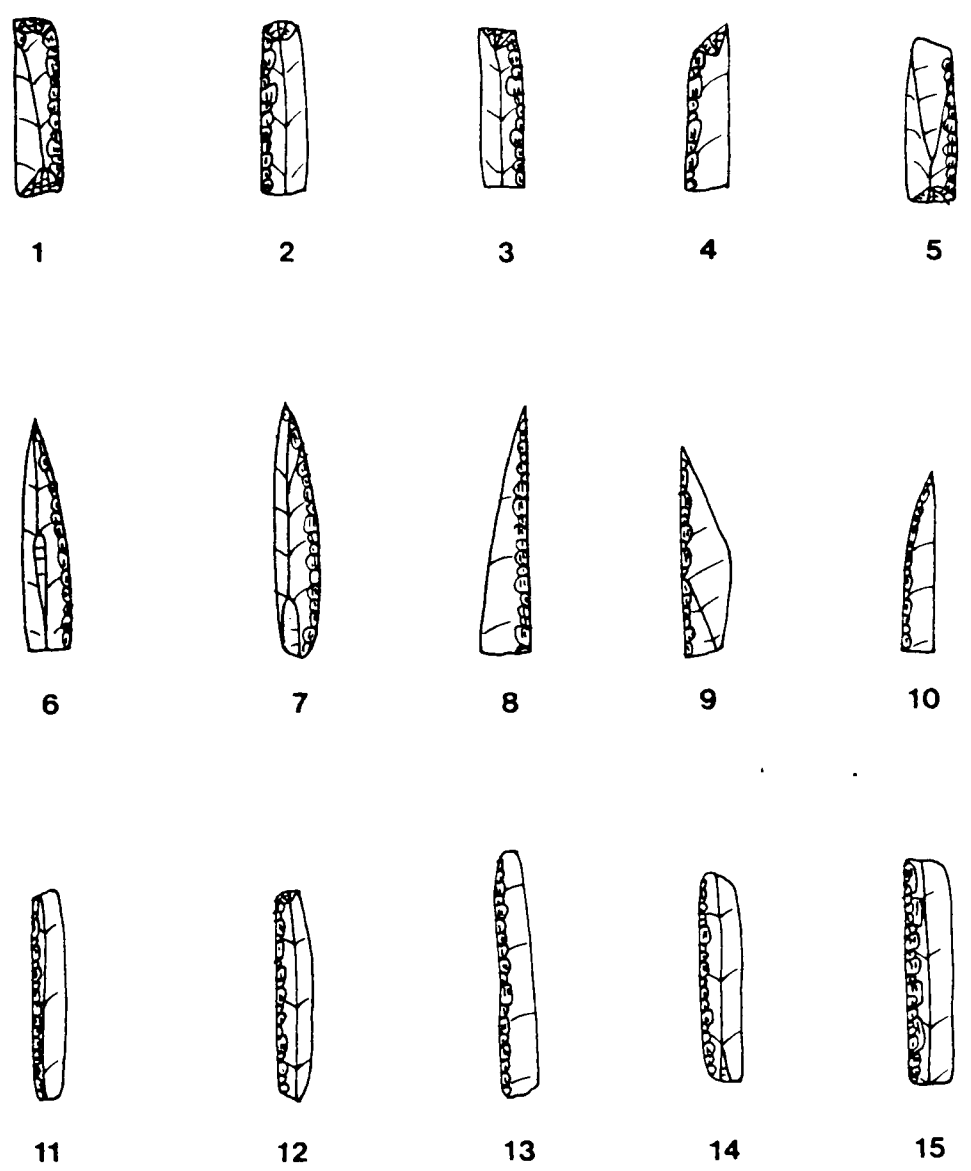


FIGURE 6:5
UGENTO: BACKED BLADELETS



0 3 cm

FIGURE 6:6
UGENTO: CORES

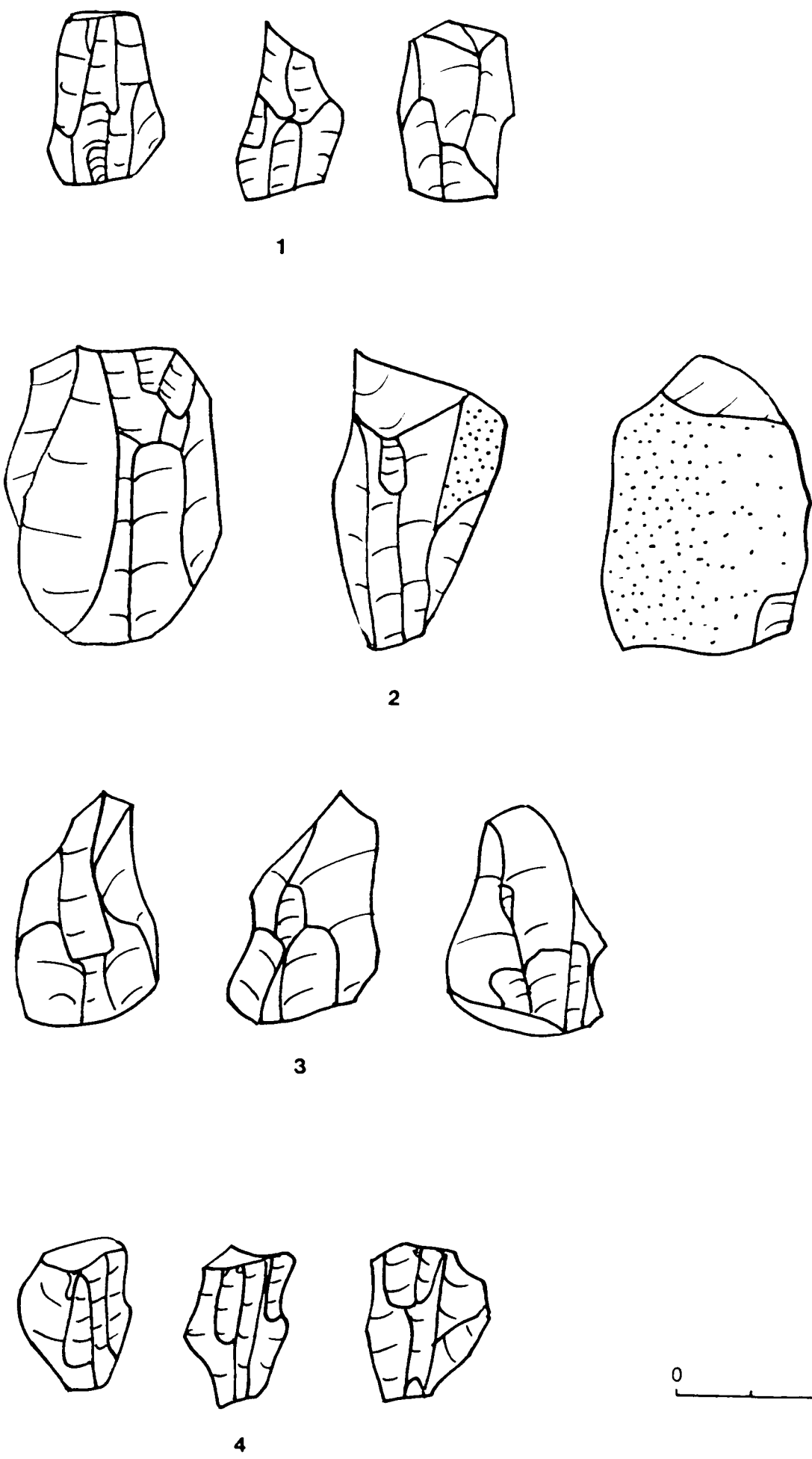


FIGURE 6:7
ROMANELLI: TOOL CLASSES

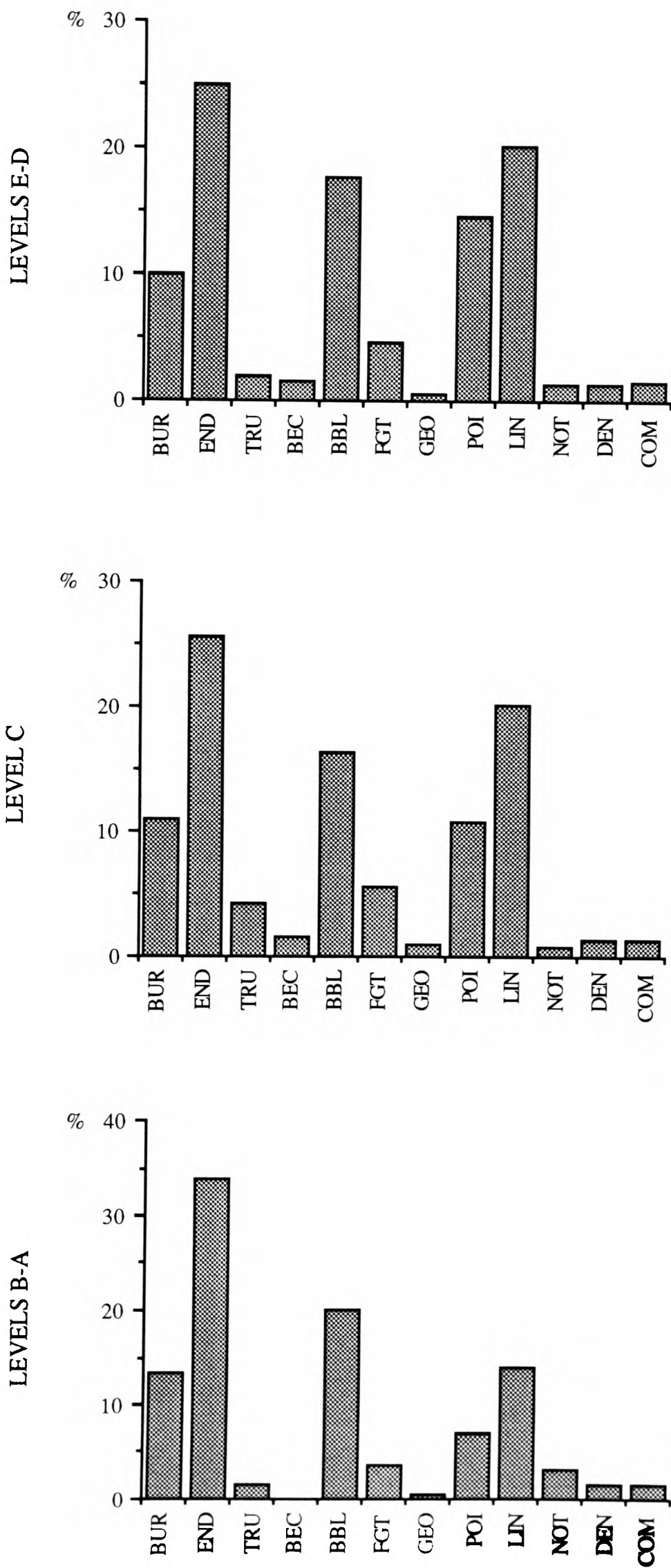


FIGURE 6:8
ROMANELLI: POINTS

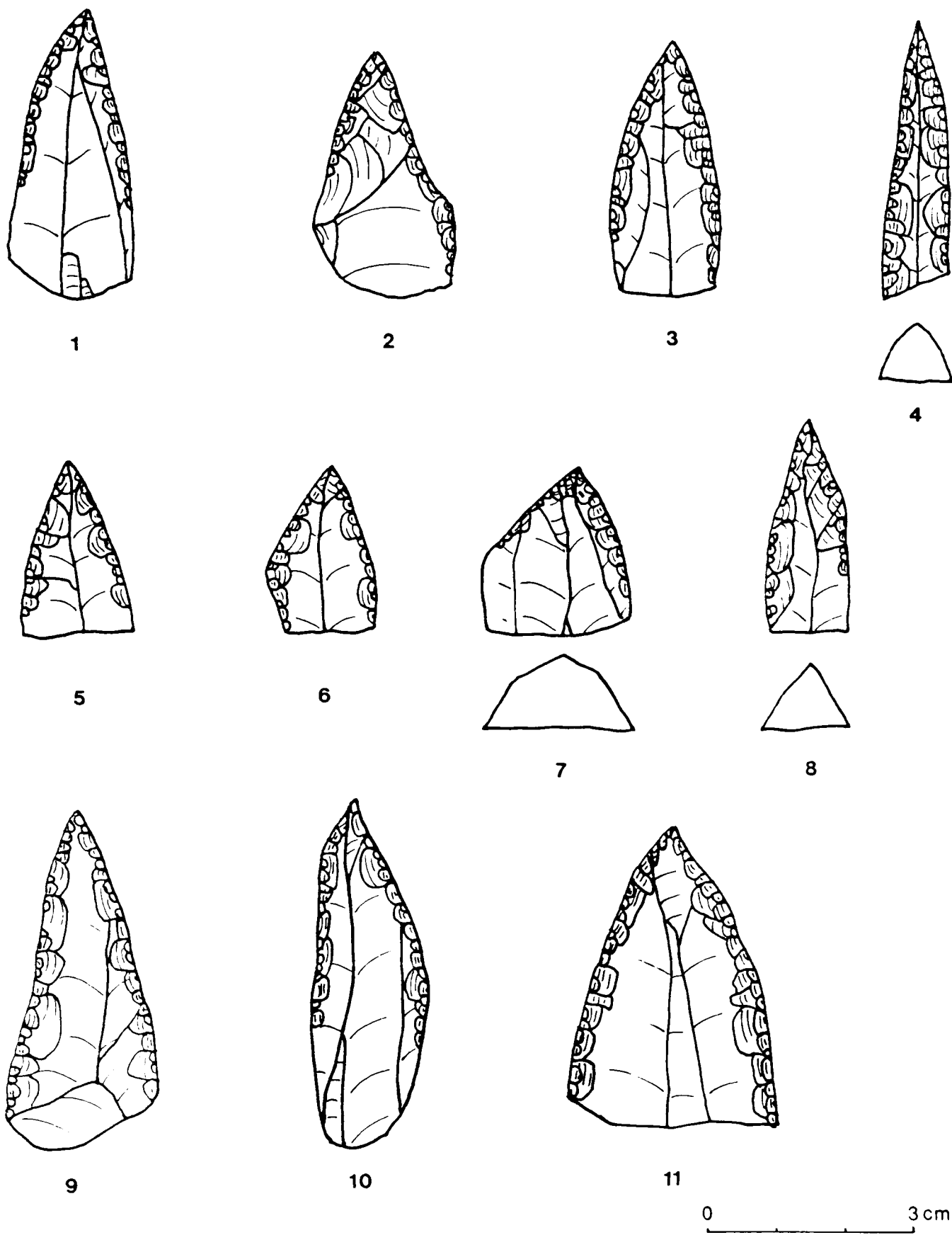


FIGURE 6:9
ROMANELLI: CORES

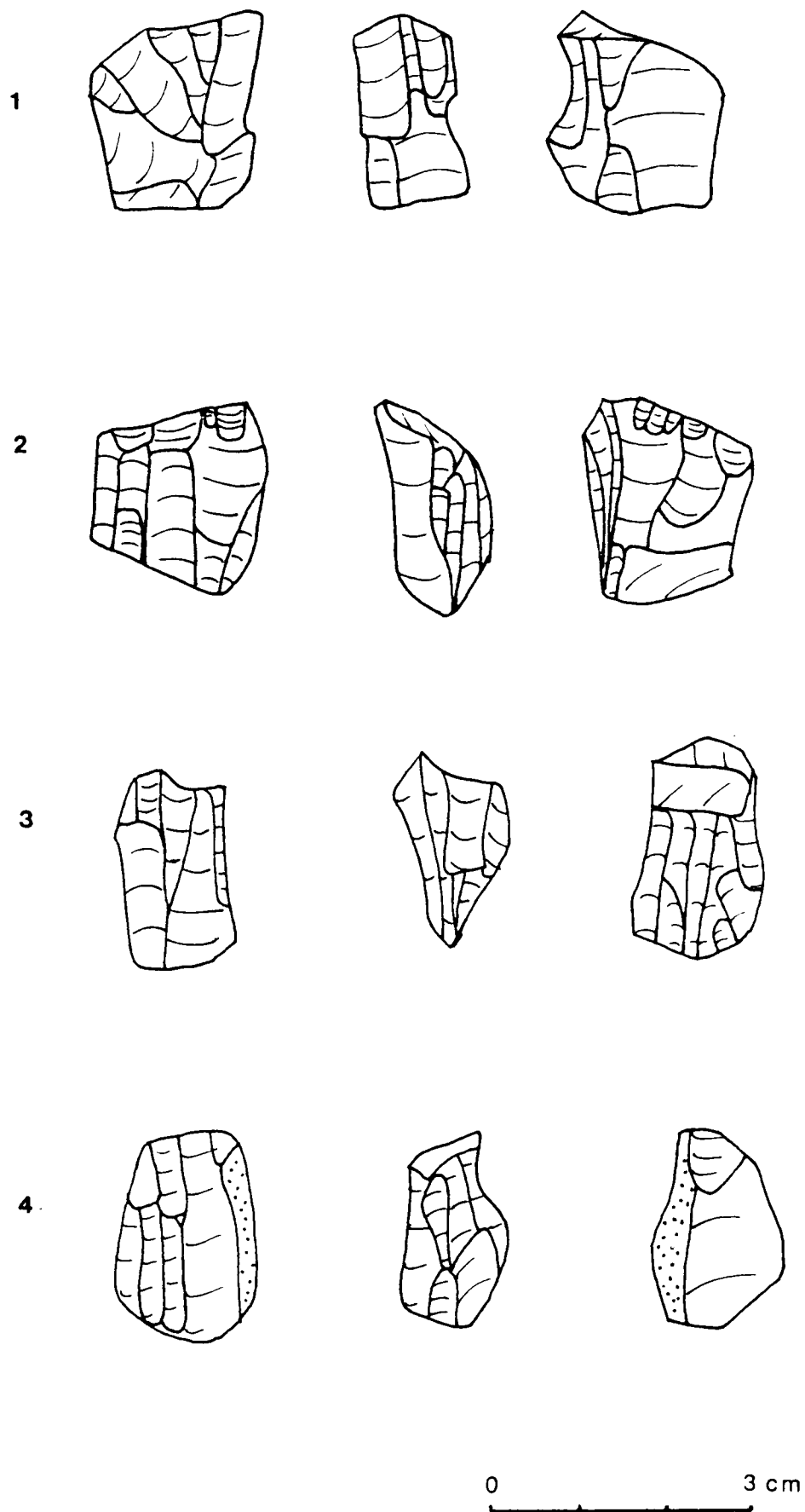


FIGURE 6:10
CAVALLO: TOOL CLASSES

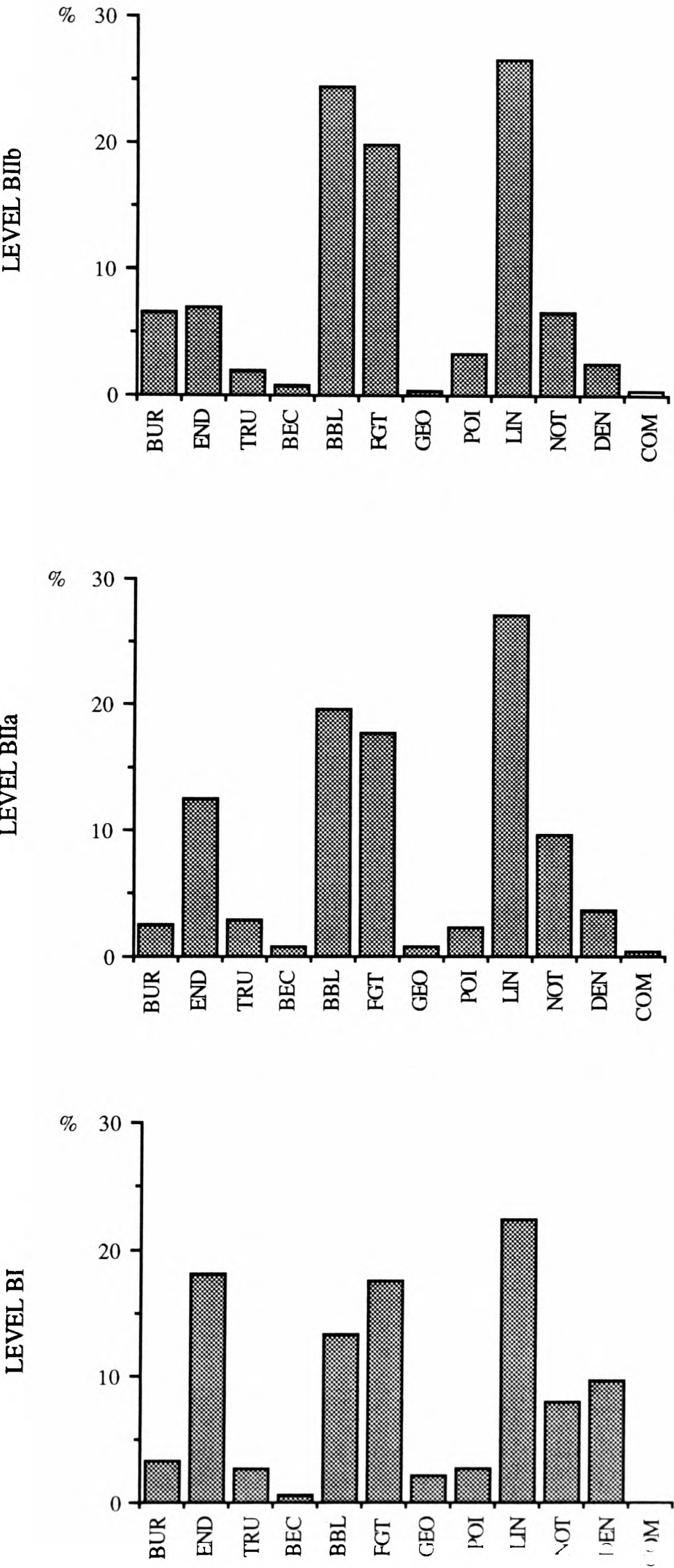


FIGURE 6:11
ULUZZO: TOOL CLASSES IN LEVELS I-LOWER F

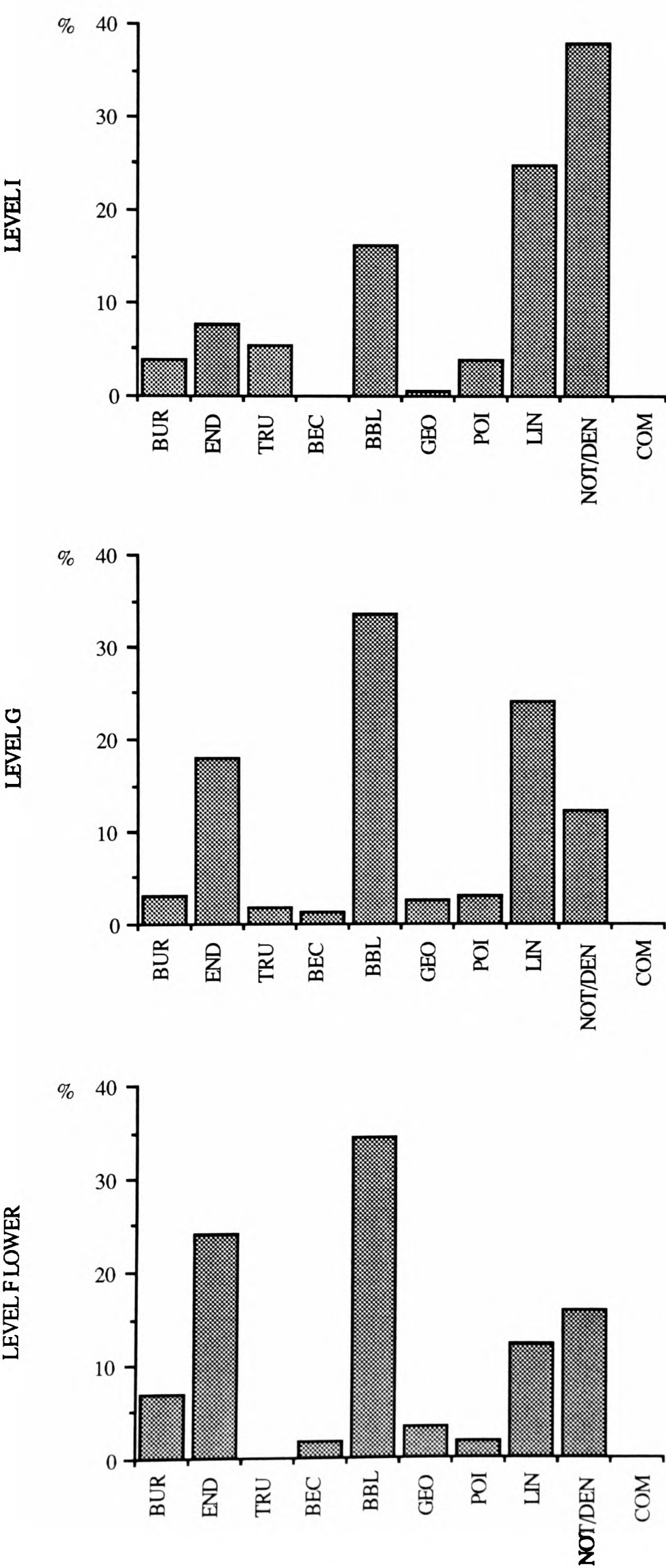


FIGURE 6:12
ULUZZO: TOOL CLASSES IN LEVELS UPPER F-E

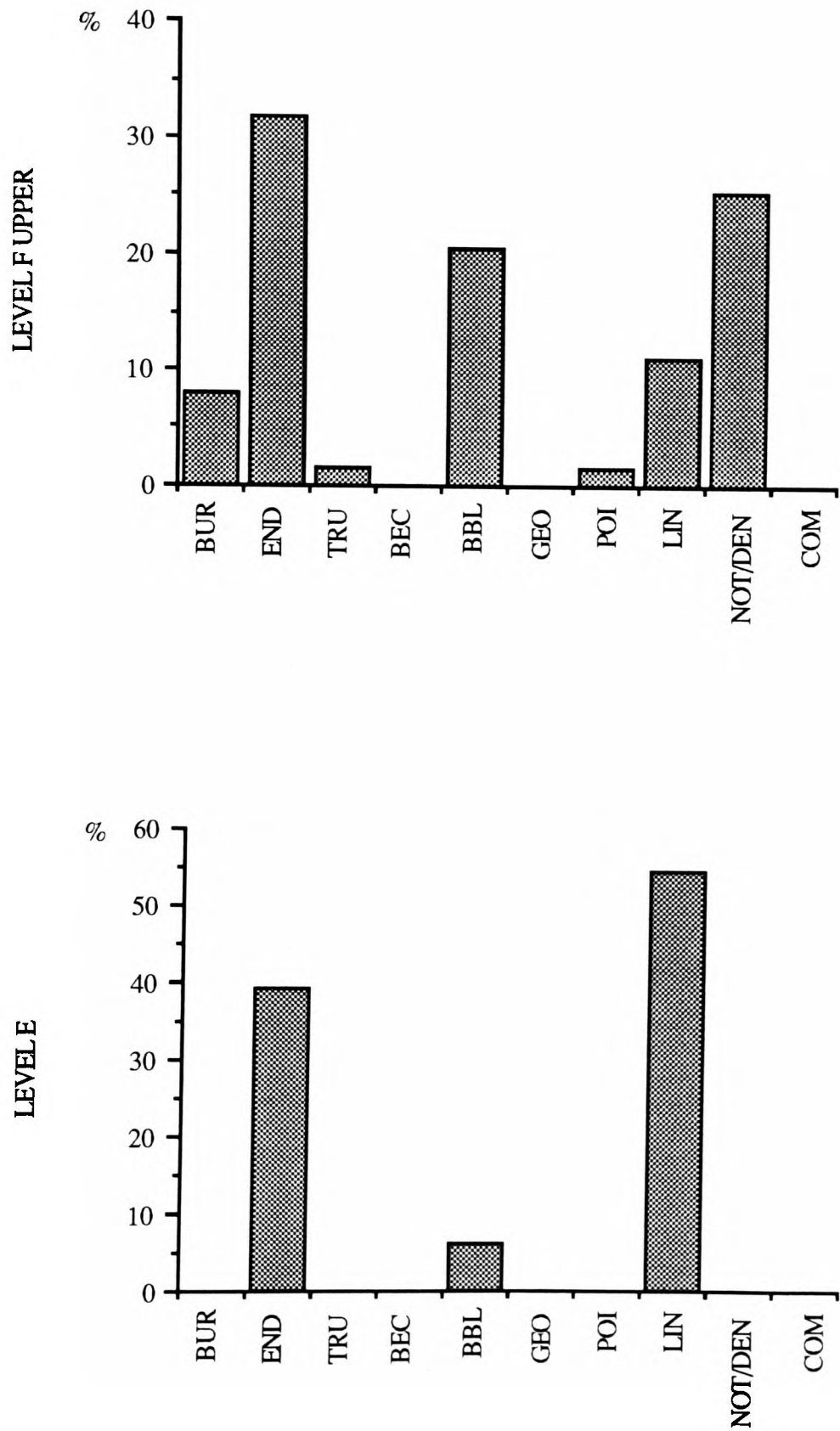


FIGURE 6:13
ULUZZO: CORES

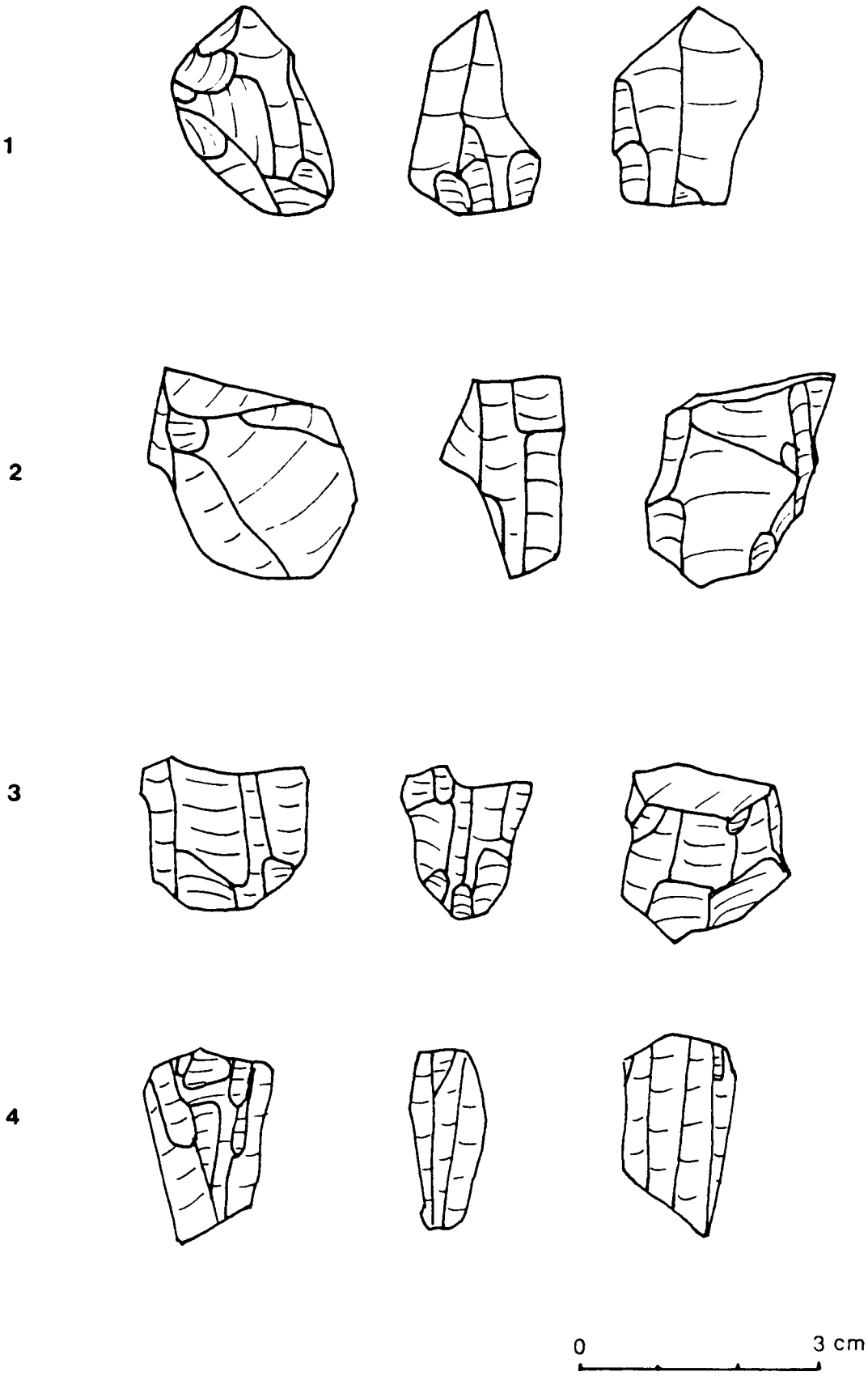


FIGURE 6:14
MURA AND SANTA CROCE: TOOL CLASSES

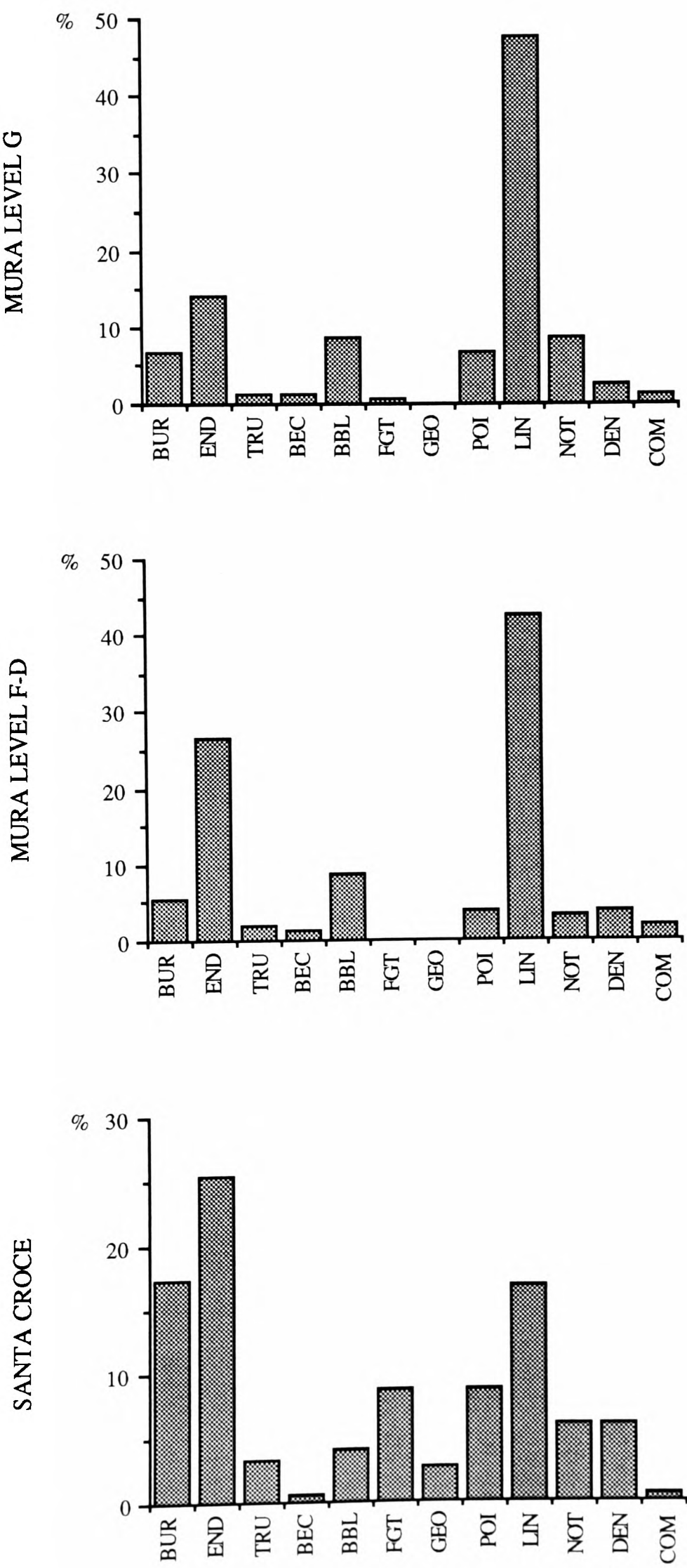


FIGURE 6:15
GROTTA PAGLICCI: PLAN OF THE CAVE SHOWING THE EXCAVATED
AREAS

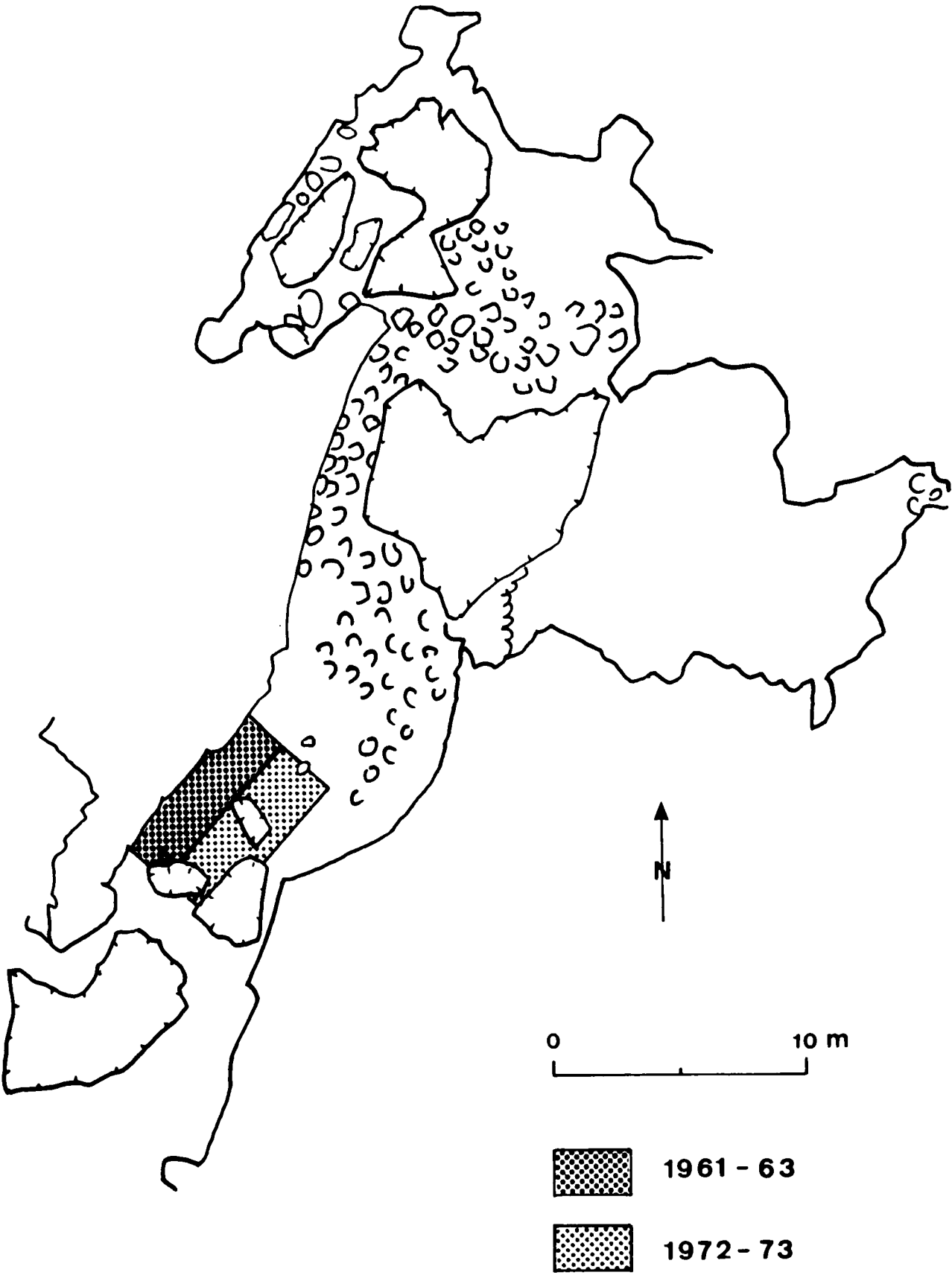


FIGURE 6:16
PAGLICCI:TOOL CLASSES IN LEVELS 17-15

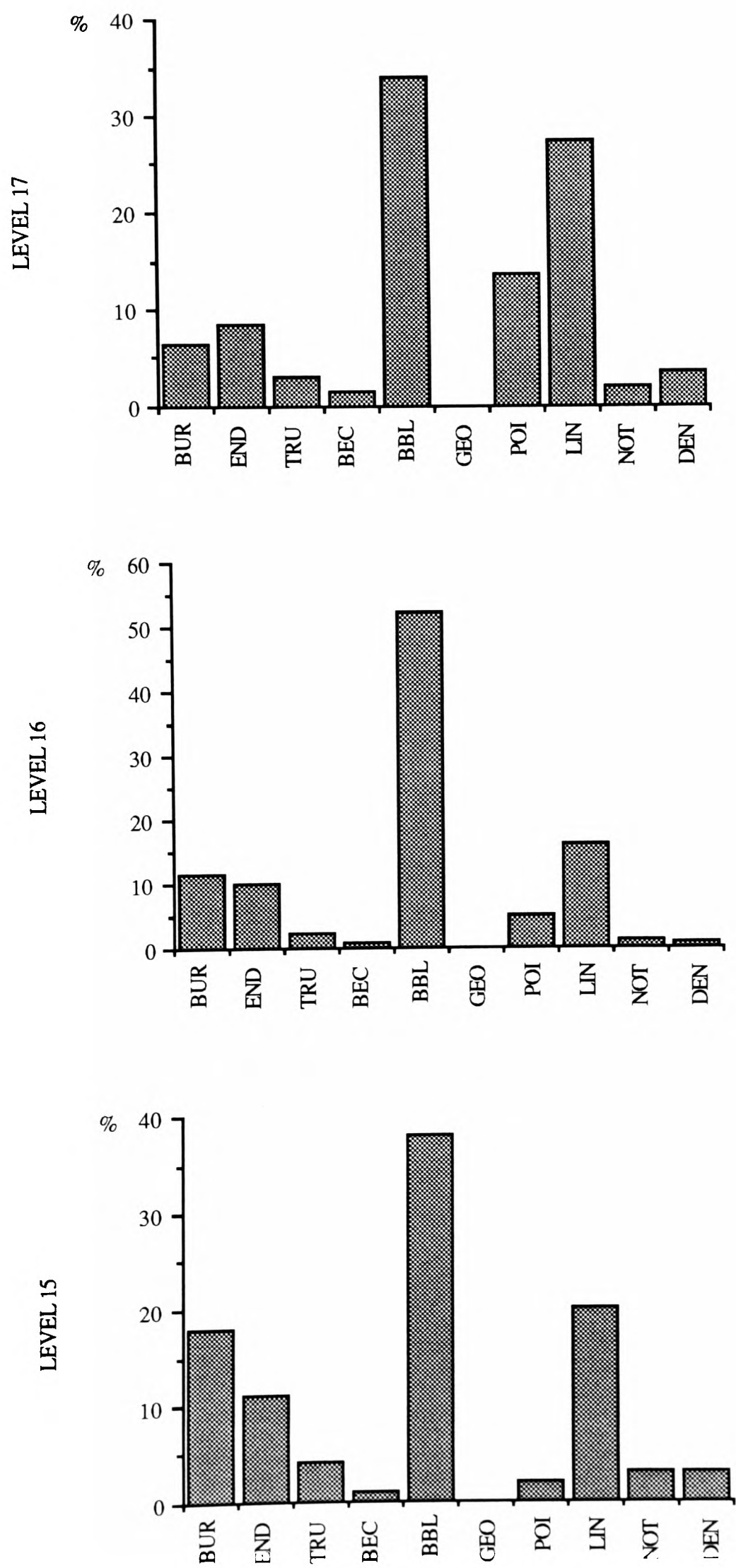


FIGURE 6:17
PAGLICCI:TOOL CLASSES IN LEVELS 14-12

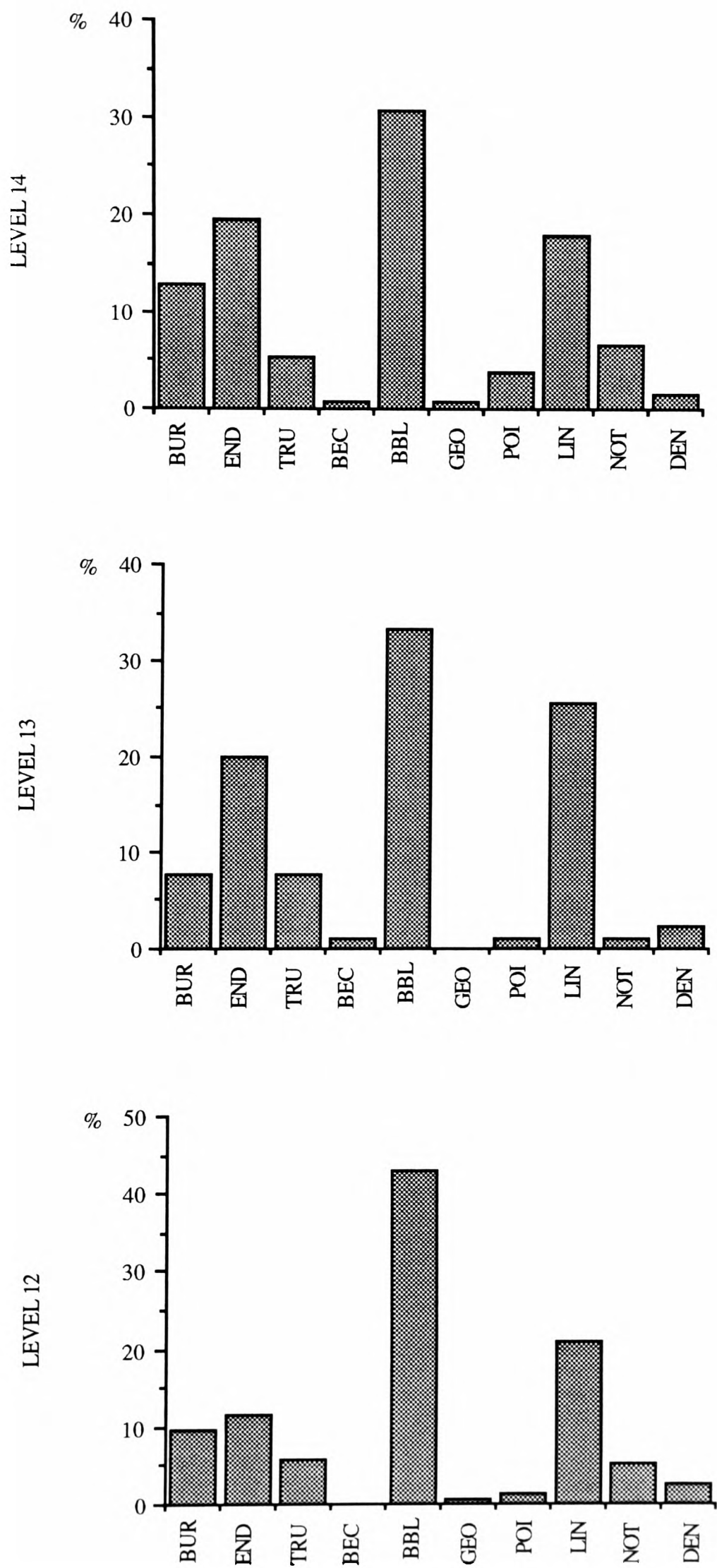


FIGURE 6:18
PAGLICCI:TOOL CLASSES IN LEVELS 9-7

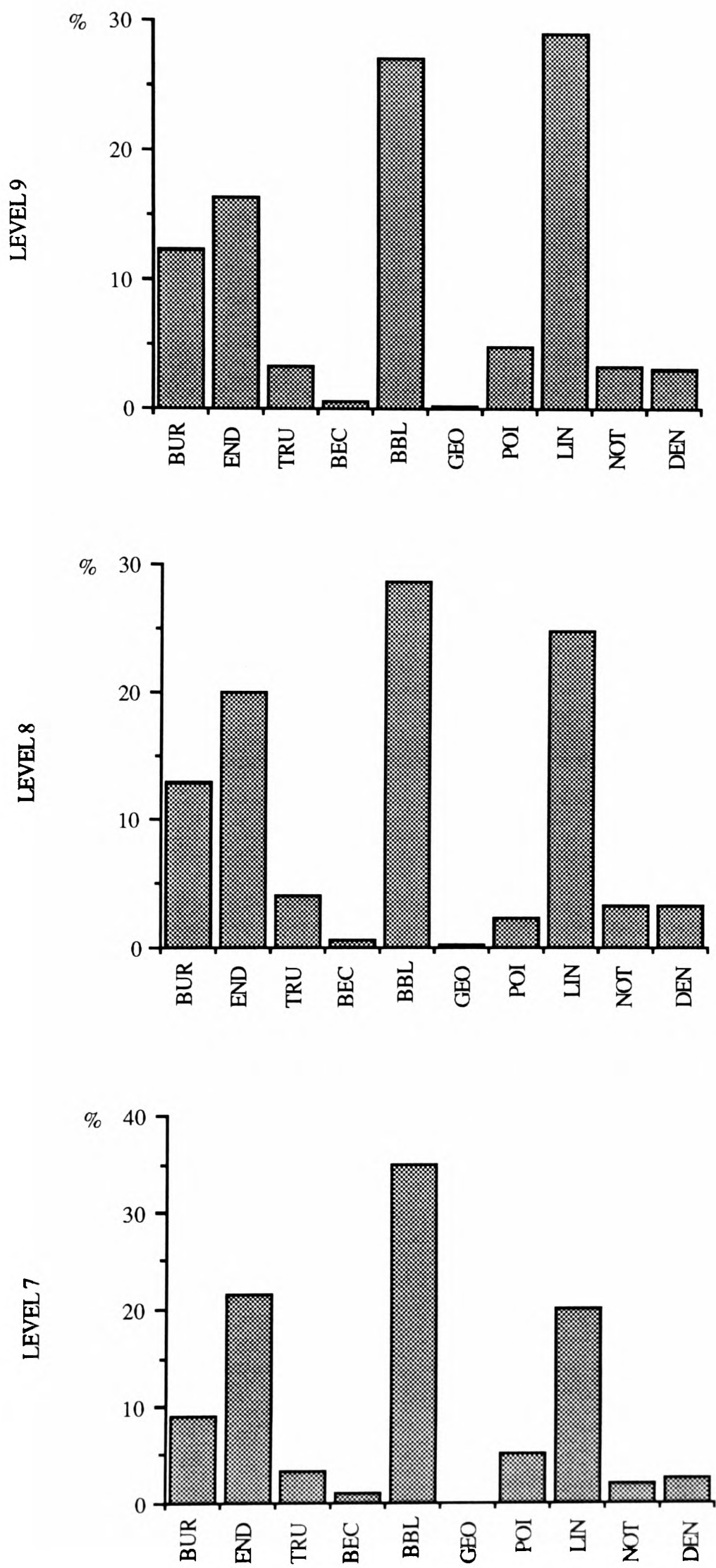


FIGURE 6:19
PAGLICCI:TOOL CLASSES IN LEVELS 6-4

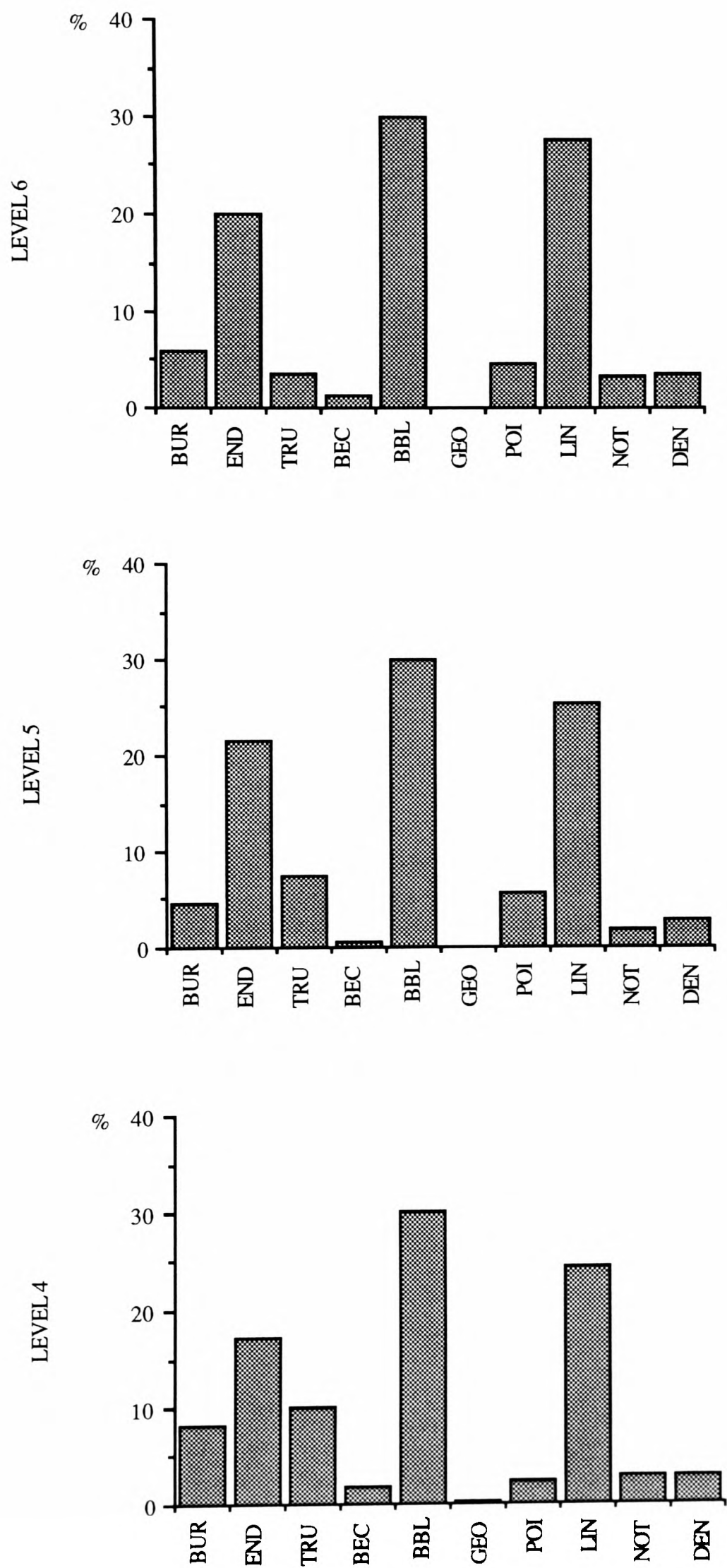


FIGURE 6:20
PAGLICCI:TOOL CLASSES IN LEVELS 3-1

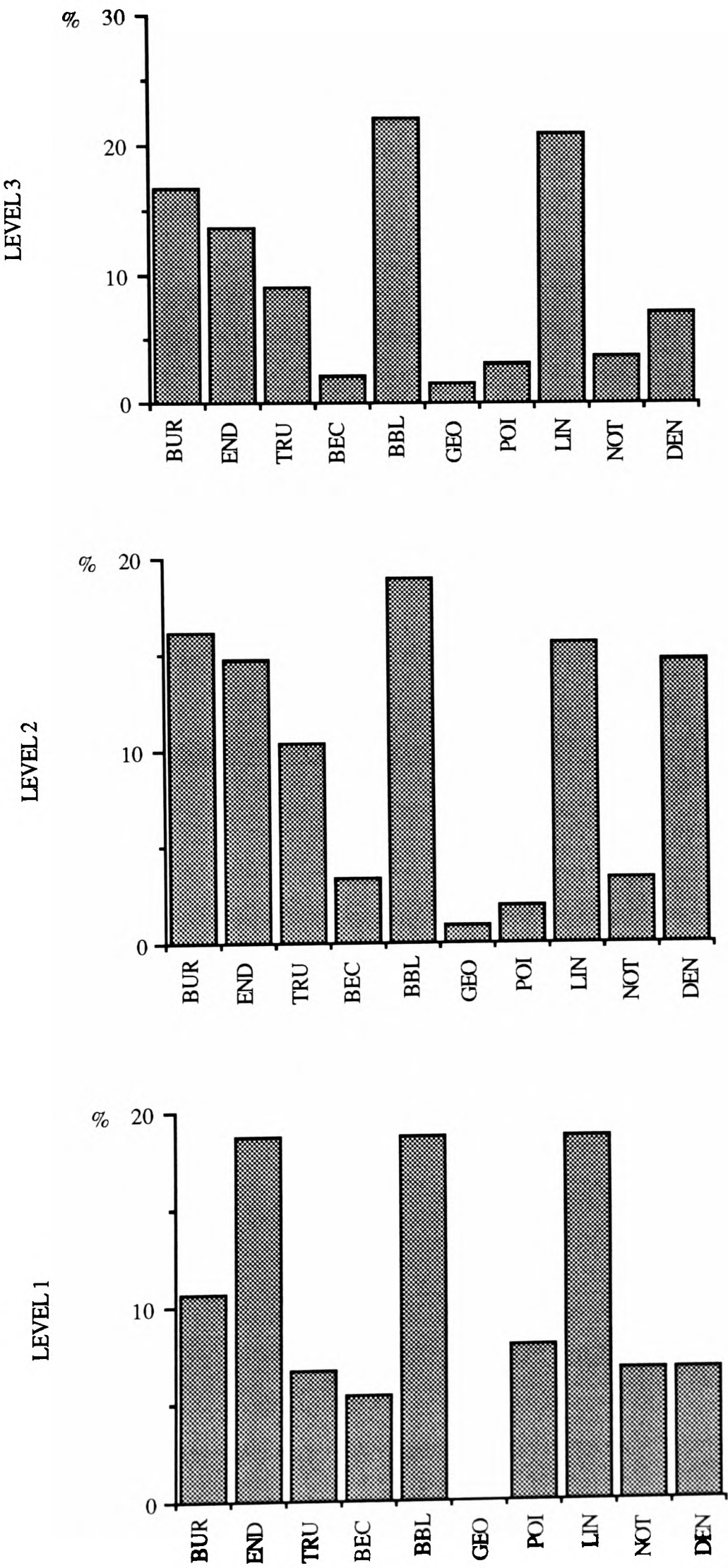


FIGURE 6:21
PAGLICCI:SCATTER-PLOTS OF THE BURIN METRICAL RELATIONSHIPS

