

**CHARCOAL ANALYSIS FROM ÇATALHÖYÜK AND
PINARBAŞI, TWO NEOLITHIC SITES IN THE KONYA
PLAIN, SOUTH-CENTRAL ANATOLIA, TURKEY**

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**Volume Two
Tables, Figures, Plates**

**Thesis submitted in fulfilment of the Degree of
Doctor of Philosophy
Institute of Archaeology
University College London**

2001

TABLE OF CONTENTS

VOLUME TWO

- I. TABLES
- II. FIGURES
- III. PLATES

I. LIST OF TABLES

- 1.1** Outline of environmental conditions, resources and settlement patterns in the Konya plain and adjacent areas ca. 18,000 - 8,000 uncal. B.P. (modified after Roberts 1991)
- 1.2** List of the published radiocarbon dates available from Neolithic sites of Central Anatolia
- 4.1** Çatalhöyük-South Area: Complete list of sampled contexts, including excavation levels, sample/space numbers and short context descriptions
- 4.2** Radiocarbon dates from Çatalhöyük arranged by excavation level
- 4.3a** Çatalhöyük-South Area: List of identifications for all midden/dump deposits of excavation levels VII-IX
- 4.3b** Çatalhöyük-South Area: List of identifications for all midden/dump deposits of pre-level XII Phases A-D
- 4.4** Çatalhöyük-South Area: Abundance values and presence scores for all midden/dump deposits (main taxa only; percentage fragment counts have been calculated after excluding indeterminate fragments from the sums)
- 4.5** Çatalhöyük-South Area: Complete listing of unit details including litres of soil floated, flot and HR weights, Density (g/l: STDW), Fragmentation/Preservation (total ID:Indet.-Fr/Pr index) and Diversity (Shannon-Wiener index) measurements for all midden/dump units (values for unit 4836 s.2 have been averaged)
- 4.6a** Çatalhöyük-South Area: List of identifications for all non-midden/dump contexts (excavation levels VII-VIII)
- 4.6b** Çatalhöyük-South Area: List of identifications for all non-midden/dump contexts (excavation levels IX & XI)
- 4.6c** Çatalhöyük-South Area: List of identifications for all non-midden/dump deposits (excavation levels XI to pre-XII Phase C)
- 4.7** Çatalhöyük-South Area: Summary absolute fragment counts for all non-midden/dump units
- 4.8** Çatalhöyük-South Area: Summary absolute and percentage fragment counts for all non-midden/dump deposits grouped by context category/type (sums exclude indeterminate fragments)
- 4.9** Çatalhöyük-South Area: Complete listing of unit details including litres of soil floated, flot weights, Density (g/l: STDW), Fragmentation/Preservation (total ID:Indet.-Fr/Pr index) and Diversity (Shannon-Wiener index) measurements for all non-midden/dump deposits
- 4.10** Çatalhöyük-North Area: Complete listing of sampled units from building 1
- 4.11a** Çatalhöyük-North Area: Complete list of identifications from building 1 contexts (continued)
- 4.11b** Çatalhöyük-North Area: Complete list of identifications from building 1 contexts

- 4.12** Çatalhöyük-North Area: Summary absolute/percentage fragment counts by phase (top) and absolute fragment counts (middle-bottom; contexts are listed by phase)
- 4.13** Çatalhöyük-North Area: Complete listing of details for all sampled contexts of building 1 including litres of soil floated, float and HR weights, numbers of ID fragments and values for density (STDW, g/l), fragmentation/preservation (Fr/Pr total ID:Indet.) and diversity (Shannon-Wiener index) measurements
- 4.14a** Pınarbaşı: Complete list of identifications from the Early Neolithic (Site A) loci and the Late Neolithic infill of the curvilinear structure (Site B)
- 4.14b** Pınarbaşı: Complete list of identifications from the external to the curvilinear structure Neolithic deposits of Site B
- 4.14c** Pınarbaşı: Complete list of identifications from the Late Neolithic/Chalcolithic deposits of Site B
- 4.15** Pınarbaşı: Presence scores of all taxa occurring in Neolithic and Chalcolithic contexts from Site B
- 4.16** Pınarbaşı: Summary absolute and percentage fragment counts for Site A & Site B
- 4.17** Pınarbaşı: Complete listing of details on all sampled contexts from Site A & Site B, including litres of soil floated, total float weight, numbers of ID and Indet. fragments, and density (STDW), fragmentation/preservation (Fr/Pr) and diversity (S-W) values
- 5.1** Summary of landforms/habitats, vegetation catchments and reconstructed woodland composition based on ecological analogues and taxon presence in the charcoal assemblages
- 5.2** Summary of the evidence on local environmental conditions at the time of the Neolithic occupation at Çatalhöyük, the prevailing climate patterns and the corresponding charcoal evidence
- 5.3** Summary of the available data on sample composition, charcoal density and taxonomic diversity compared between early and late levels
- 5.4** Summary of reconstructed seasonal (top) and temporal (bottom) differences in fuel consumption at Çatalhöyük during the Neolithic

II. LIST OF FIGURES

- 1.1 Map of the Konya Basin (after Roberts 1982)
- 1.2 Map showing the location of Pınarbaşı (after Watkins 1996)
- 1.3 The pollen diagram from Akgöl (abridged, after van Zeist and Bottema 1991)
- 1.4 Map showing the location of the excavated Neolithic sites in Central Anatolia (also shown are Öküzini, a major Epipalaeolithic site on the Antalya coast and Kaletepe, the obsidian workshop in the vicinity of Aşıklı)
- 1.5 Çatalhöyük: Map showing the location of the excavated areas
- 1.6a Wooden vessels retrieved from the burnt buildings of level VI (after Mellaart 1967)
- 1.6b Wooden vessels retrieved from the burnt buildings of level VI (after Mellaart 1967)
- 1.7 Wall painting from the “hunting shrine” (A.III.1) of level III (after Mellaart 1967)
- 1.8 Wall paintings from the “hunting shrine” (A.III.1) of level III (after Mellaart 1967)
- 2.1 Generalised drawings showing the diagnostic characters of conifers (left) and hardwoods (right) on the three anatomical planes (transverse or cross section, radial and tangential section; after Fahn 1990)
- 2.2a Histograms showing the results of Lucie Chabal’s quantitative analysis of charcoal fragmentation from the site of Le Marduel: a. For all taxa from level A (top) and level B (bottom) (after Chabal 1988)
- 2.2b Histograms showing the results of Lucie Chabal’s quantitative analysis of charcoal fragmentation from the site of Le Marduel: b. Showing fragment distributions for dominant taxa-level A (left), level B (right) (after Chabal 1988)
- 2.2c Histograms showing the results of Lucie Chabal’s quantitative analysis of charcoal fragmentation from the site of Le Marduel: c. Showing fragment distributions for minor taxa-level A (left), level B (right) (after Chabal 1988)
- 3.1 Pınarbaşı: Location of the excavated areas
- 4.1 Çatalhöyük-South Area: Plan of excavation level VII
- 4.2 Çatalhöyük-South Area: Plan of space 112 showing location of sampled fire installation (“oven” 96)
- 4.3 Çatalhöyük-South Area: Plan of excavation level VIII
- 4.4 Çatalhöyük-South Area: Plan of building 2
- 4.5 Çatalhöyük-South Area: Plan of excavation level IX
- 4.6 Çatalhöyük-South Area: Plan of excavation level X
- 4.7 Çatalhöyük-South Area: Plan of excavation levels XI, XII and pre-XII (space 181)
- 4.8 Çatalhöyük-South Area: Location of gully feature and post-pad in space 181

- 4.9 Çatalhöyük-South Area: Bar chart showing percentage presence scores for all midden/dump units
- 4.10 Çatalhöyük-South Area: Percentage fragment counts for all midden/dump units (sums exclude indeterminate fragments)
- 4.11 Çatalhöyük-South Area: Percentage fragment counts for midden/dump units of excavation levels pre-XII Phase A (-4844)/Phase A (4846)-Phase D
- 4.12a Çatalhöyük-South Area: Harris matrix of spaces 198/199/181 (Phase A)
- 4.12b Çatalhöyük-South Area: Harris matrix of space 181 (Phase B-continued)
- 4.12c Çatalhöyük-South Area: Harris matrix of space 181 (Phases B-C)
- 4.12d Çatalhöyük-South Area: Harris matrix of space 181 (Phases D-E)
- 4.13 Çatalhöyük-South Area: Frequency distribution bar charts for all midden/dump units (Top: Density, middle: Fragmentation/Preservation, bottom: Diversity)
- 4.14 Çatalhöyük-South Area: Bar charts showing density (STDW), fragmentation/preservation (Fr/Pr) and diversity (S-W) values for all midden/dump units
- 4.15 Çatalhöyük-South Area: Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) for all midden/dump units (no. of samples: 47)
- 4.16 Çatalhöyük-South Area: Çatalhöyük-South Area: Box plots of density, Fr/Pr and diversity values for all midden/dump units (no. of samples 47)
- 4.17 Çatalhöyük-South Area: Line plot of density, Fr/Pr and diversity measurements for all midden/dump units (arrows denote outliers for Fr/Pr values)
- 4.18 Çatalhöyük-South Area: Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) for all midden/dump units (no. of samples: 40)
- 4.19 Çatalhöyük-South Area: Box plots of density, Fr/Pr and diversity values for midden/dump units (no. of samples 40)
- 4.20 Çatalhöyük-South Area: Correspondence analysis scatterplots of all midden/dump units
- 4.21 Çatalhöyük-South Area: Detail of correspondence analysis scatterplots
- 4.22 Çatalhöyük-South Area: Correspondence analysis scatterplot of all midden/dump units. Units have been classified according to context type
- 4.23a-b Çatalhöyük-South Area: Correspondence analysis scatterplots showing classification of pre-level XII midden/dump samples according to phase (top) and sample composition plot for all units (bottom). Category "Timber" includes *Quercus* and *Juniperus*
- 4.24 Çatalhöyük-South Area: Frequency of deadwood specimens amongst the samples of midden/dump units from excavation levels VII-IX
- 4.25 Çatalhöyük-South Area: Absolute fragment counts for open fire, penning and building infill contexts
- 4.26 Çatalhöyük-South Area: Absolute fragment counts for burning events, floor-use/rakeout deposits and feature fills

- 4.27 Çatalhöyük-South Area: Percentage fragment counts for all non-midden/dump units (grouped by context type/category)
- 4.28 Çatalhöyük-South Area: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) measurements for all non-midden/dump contexts
- 4.29 Çatalhöyük-South Area: Bar charts showing frequency distributions of density, Fr/Pr and diversity values for all non-midden/dump contexts
- 4.30 Çatalhöyük-South Area: Bar charts showing frequency distribution of density, Fr/Pr and diversity values for activity/penning and building infill contexts
- 4.31 Çatalhöyük-South Area: Correspondence analysis scatterplots of all non midden/dump units
- 4.32a Çatalhöyük-South Area: Detail of correspondence analysis scatterplots for all non-midden/dump units
- 4.32b Çatalhöyük-South Area: Detail of sample composition plot for all non-midden/dump units
- 4.33 Çatalhöyük-North Area: Plans of building 1, phases B1.2A (top), B1.2B (middle) and B1.2C (bottom)
- 4.34 Çatalhöyük-North Area: Plans of building 1, phases B1.3 (“controlled burning”; top) and B1.4 (“secondary occupation”; bottom)
- 4.35 Çatalhöyük-North Area: Plans of building 1, “abandonment phase” (from top to bottom: B1.5A-1, B1.A-2, B1.A-3)
- 4.36 Çatalhöyük-North Area: Plan of building 1 showing the location of external deposits (spaces 69, 73, 152, 153)
- 4.37 Çatalhöyük-North Area: Summary percentage fragment counts from building 1, phases B1.2, B1.3, B1.4, B1.5A-2 and B1.E
- 4.38a Çatalhöyük-North Area: Summary absolute fragment counts plotted by phase/unit number for all sampled contexts of building 1 (continued)
- 4.38b Çatalhöyük-North Area: Summary absolute fragment counts plotted by phase/unit for all sampled contexts of building 1
- 4.39 Çatalhöyük-North Area: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) measurements for all sampled contexts of building 1
- 4.40 Çatalhöyük-North Area: Bar charts showing frequency distribution of density (top), Fr/Pr (middle) and diversity (bottom) values for all sampled contexts of building 1
- 4.41 Çatalhöyük-North Area: Correspondence analysis scatterplots of all sampled contexts from building 1
- 4.42 Çatalhöyük-North Area: Detail of correspondence analysis scatterplots for all sampled contexts of building 1
- 4.43 Çatalhöyük-North Area: Excavators’ sketches of units 1332 (left), lying above 1344 (burnt layer; right) in bin 215 (building 1, space 71-phase B1.2C)

- 4.44** Çatalhöyük-North Area: Proportions of decayed and non-decayed wood (4mm fraction) amongst the three major taxa (*Quercus*, *Ulmus*, *Celtis*) present in unit 1344 (“lentil bin”)
- 4.45** Pınarbaşı: General plan of Site A showing the early Neolithic loci
- 4.46** Pınarbaşı: Plan of Site B showing the location of western stone cluster (filled by BAE, BAJ) and eastern stone cluster (lined by upright stones BAN, and filled by BAD, BAI, BAM). BAV and BAK are grey stony layers, and BAW (below BAT) is part of the upper infill of the Late Neolithic curvilinear structure (see also section in Fig. 4.47; modified after Watkins 1996)
- 4.47** Pınarbaşı: Section showing sampled deposits in Site B (modified after Watkins 1996)
- 4.48** Pınarbaşı: Plan of Site B showing the location of some of the earliest excavated deposits outside the curvilinear structure (see also section in Fig. 4.47; modified after Watkins 1996)
- 4.49** Pınarbaşı: Bar chart showing percentage presence scores of all taxa occurring in Neolithic and Chalcolithic contexts from Site B
- 4.50a** Pınarbaşı: Bar charts showing summary absolute fragment counts for Site A & Site B
- 4.50b** Pınarbaşı: Bar charts showing summary percentage fragment counts for Site A & Site B
- 4.51** Pınarbaşı: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) for all sampled contexts from Site A & Site B
- 4.52** Pınarbaşı: Bar charts showing frequency distributions of density (top), Fr/Pr (middle) and diversity (bottom) for all sampled contexts from Site A & Site B
- 4.53** Pınarbaşı: Pınarbaşı: Box plots of density, Fr/Pr and diversity values for all loci from Site A and Site B (no. of samples 38)
- 4.54** Pınarbaşı: Correlation scatterplots for density (STDW), fragmentation/preservation (Fr/Pr) and diversity (S-W) values for all 38 contexts from Site A & Site B
- 4.55** Pınarbaşı: Spearman’s Rank Correlation Coefficient for Density:Fr/Pr (STDW:Fr/Pr), Density:Diversity (STDW:S-W) and Fr/Pr:Diversity (Fr/Pr:S-W) (Site B, no. of samples: 36)
- 4.56** Pınarbaşı: Pınarbaşı: Box plots of density, Fr/Pr and diversity values for all loci from Site B (no. of samples 36)
- 4.57** Pınarbaşı: Pınarbaşı: Spearman’s Rank Correlation Coefficient for Density:Fr/Pr (STDW:Fr/Pr), Density:Diversity (STDW:S-W) and Fr/Pr:Diversity (Fr/Pr:S-W) (Site B, only Neolithic contexts no. of samples: 28)
- 4.58** Box plots of density, Fr/Pr and diversity values for all Neolithic loci from Site B (no. of samples 28)
- 4.59** Pınarbaşı: Correspondence analysis scatterplots of all examined contexts (Site A & B)
- 4.60** Pınarbaşı: Detail of correspondence analysis scatterplot
- 5.1** Distribution of early Holocene landforms in the Konya plain

- 5.2** Sketch map of eastern Karadağ (after Ocakverdi and Ünal 1991)
- 5.3** Reconstruction of timber elements and wall frame from level VI (after Mellaart 1967)

III. LIST OF PLATES

Plate 1	<i>Acer</i>	Plate 31	Salicaceae
Plate 2	<i>Alnus</i>	Plate 32a	<i>Tamarix</i>
Plate 3	<i>Amygdalus</i>	Plate 32b	<i>Vitex</i>
Plate 4	<i>Amygdalus</i>	Plate 33	<i>Vitis?</i>
Plate 5	<i>Amygdalus</i>	Plate 34	<i>Juniperus</i>
Plate 6	<i>Artemisia</i>	Plate 35	<i>Pinus</i>
Plate 7	Asteraceae	Plate 36	<i>Phragmites</i>
Plate 8	Asteraceae	Plate 37a	Decayed wood specimens
Plate 9	<i>Capparis</i>	Plate 37b	Decayed wood specimens
Plate 10	Caprifoliaceae	Plate 38	Thermal degradation and possible signs of wood deformation other than fungal decay
Plate 11a	<i>Celtis</i>		
Plate 11b	<i>Ulmus</i>		
Plate 11c	<i>Celtis</i>		
Plate 12	Chenopodiaceae		
Plate 13	<i>Clematis</i>		
Plate 14	Fabaceae		
Plate 15	<i>Cornus</i>		
Plate 16	<i>Cornus</i>		
Plate 17	<i>Ficus</i>		
Plate 18	<i>Fraxinus</i>		
Plate 19	<i>Fraxinus</i>		
Plate 20	Lamiaceae		
Plate 21	Lamiaceae		
Plate 22	Maloideae		
Plate 23	<i>Pistacia</i>		
Plate 24	<i>Platanus</i>		
Plate 25	<i>Prunus</i>		
Plate 26	<i>Prunus</i>		
Plate 27	<i>Quercus</i>		
Plate 28	<i>Quercus</i>		
Plate 29	<i>Rhamnus</i>		
Plate 30	<i>Rosa</i>		

	Konya plain environments	Konya basin margins	Vegetation	Prevailing climate	Resources	Settlement	Subsistence economy
18,000 B.P. (LGM)	single, extensive, fresh-brackish lake	coarse fan gravels deposited by rivers with strongly seasonal regimes	wormwood-chenopod steppe	cold, semi-arid	molluscs, large herbivores (elk-like cervid)	(artefact scatters around the Konya palaeolake)	presumed hunting-gathering
13,000 B.P.	plain mostly dry except for seasonal flooding. Akgöl lake shallow, brackish-saline	little sediment deposited; low river discharges but still seasonal	wormwood-chenopod steppe	cold, arid	ungulate herds?	(artefact scatters around the Konya palaeolake)	presumed hunting-gathering
-11,000 B.P.	small, freshwater lakes and marshes	seasonal river regimes enhanced by glacial meltwater	grass-herb steppe with oak slowly re-appearing in the uplands	cool, semi-arid (temperatures rising)	wildfowl, aquatic resources, ungulates, small mammals	indications of Epipalaeolithic activity in Pınarbaşı and the Konya plain	presumed hunting-gathering
9,000 B.P.	plain largely dry and steppic; seasonal flooding, marshlands	fine-grained alluvium laid down on fans by steady river flows, partly from springs	patchwork of steppic grassland, aquatic and forest-steppe vegetation on the plain; oak expanding in the uplands	onset of the climatic optimum; wetter conditions	wildfowl, hunted mammals, animal domesticates? fruits, cereals, pulses	Neolithic village sites at Aşklı, Musular; hunting and herding? station at Pınarbaşı	cereal cultivation alongside animal herding and hunting-gathering activities
8,000 B.P.	plain largely dry and steppic; seasonal flooding, marshlands	fine-grained alluvium laid down on fans by steady river flows, partly from springs	patchwork of steppic grassland, aquatic and forest-steppe vegetation on the plain; oak and pine in the uplands	warm, semi-arid to sub-humid (progressively arid conditions)	wildfowl, hunted mammals, animal domesticates, fruits, cereals, pulses,	Neolithic village sites at Can Hasan, Suberde and Çatalhöyük; hunting? and herding station at Pınarbaşı	establishment of agricultural economies based on cereal cultivation and animal husbandry (mainly sheep, goat)

Table 1.1: Outline of environmental conditions, resources and settlement patterns in the Konya plain and adjacent areas ca. 18,000 - 8,000 uncal. B.P. (modified after Roberts 1991)

Table 1.2: List of radiocarbon dates from the major excavated Neolithic sites in Central Anatolia (for Çatalhöyük see Table 4.2; source: the electronic database of the Central Anatolian Neolithic e-Workshop, <http://canew.multimania.com/carbondatabase.htm>)

Aşıklı Höyük

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indicator
P-1240	8958±130	charcoal	Visible base of site
Hd-nd	8882±40	charcoal	Visible base of site
P-1238	8807±128	charcoal	Visible base of site
P-1241	8793±127	charcoal	Visible base of site
P-1242	8778±128	charcoal	Visible base of site
P-1239	8611±108	charcoal	Visible base of site
GrN-20349	8840±50	charcoal	Phase 2H or 2G
GrN-20353	8740±60	charcoal	Phase 2H or 2G
GrN-19865	8880±70	charcoal	Phase 2E or 2D
GrN-19858	8770±90	charcoal	Phase 2E or 2D
GrN-19866	8560±40	charcoal	Phase 2E or 2D
GrN-18617	8730±45	charcoal	Phase 2C-A
GrN-19363	8675±25	charcoal	Phase 2C or 2B
GrN-19360	8695±25	charcoal	Phase 2C or 2B
GrN-19359	8570±70	charcoal	Phase 2C or 2B
GrN-19358	8550±70	charcoal	Phase 2C or 2B
GrN-19116	8920±50	charcoal	Phase 2C-A
GrN-19120	8815±70	charcoal	Phase 2C-A
GrN-19118	8760±45	charcoal	Phase 2C-A
GrN-19119	8760±40	charcoal	Phase 2C-A
GrN-18618	8725±50	charcoal	Phase 2C-A
GrN-19870	8720±80	charcoal	Phase 2C-A
GrN-18620	8720±55	charcoal	Phase 2C-A
GrN-19860	8720±50	charcoal	Phase 2C-A
GrN-20352	8720±40	charcoal	Phase 2C-A
GrN-19117	8710±130	charcoal	Phase 2C-A
GrN-19115	8710±100	charcoal	Phase 2C-A
GrN-20354	8710±70	charcoal	Phase 2C-A
GrN-19861	8670±60	charcoal	Phase 2C-A
GrN-20351	8670±40	charcoal	Phase 2C-A
GrN-19863	8640±20	charcoal	Phase 2C-A
GrN-19362	8630±30	charcoal	Phase 2C-A
GrN-19361	8595±60	charcoal	Phase 2C-A
GrN-19121	8590±80	charcoal	Phase 2C-A
GrN-20041	8575±20	charcoal	Phase 2C-A
GrN-19868	8530±110	charcoal	Phase 2C-A
GrN-19114	8515±40	charcoal	Phase 2C-A
GrN-19869	8740±70	charcoal	Phase 2C-A
GrN-19867	8630±50	charcoal	Phase 2C-A
GrN-18619	8610±55	charcoal	Phase 2C-A
GrN-19634	8585±45	charcoal	Phase 2C-A
GrN-19862	8580±50	charcoal	Phase 2C-A
GrN-20355	8550±60	charcoal	Phase 2C-A
GrN-19365	8420±30	charcoal	Phase 2C-A
GrN-19366	8400±40	charcoal	Phase 2C-A
GrN-20684	8720±70	charcoal	Phase 2C-A
GrN-20356	8560±60	charcoal	Phase 2C-A

(continued overleaf)

Can Hasan III

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic. *
BM-1667R	8480±110	charcoal	162F2
BM-1666R	8460±150	charcoal	162F
BM-1665R	8270±160	charcoal	158F
BM-1664R	8470±140	charcoal	156F
BM-1663R	8350±210	charcoal	149F
BM-1662R	8460±110	charcoal	148F
BM-1660R	8390±140	charcoal	63F
BM-1658R	8060±130	charcoal	29F
BM-1657R	8080±130	charcoal	28F3
BM-1656R	8090±170	charcoal	17F
BM-1655R	7980±120	charcoal	6F
HU-11	8584±65	nd	nd
HU-12	8543±66	nd	nd
HU-9	7874±70	nd	nd
HU-10	7796±140	nd	nd
OxA-388	7910±160	charred grain	basal level

* samples listed in stratigraphic order

Suberde

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic.
P-1389	7584±85	charcoal	III (basal)
I-1867	8520±140	nd	III ("middle")
P-1387	8276±289	charcoal	III ("middle")
P-1391	8249±91	charcoal	III ("middle")
P-1388	8176±79	charcoal	III ("middle")
P-1386	7995±76	charcoal	III (top)
P-1385	7907±88	charcoal	III (top)

Kaletepe

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic.
GifA-99090	8850±90	micro-charcoal (AMS)	basal levels
GifA-99087	5940±80	micro-charcoal (AMS)	top levels
GifA-99088	5870±80	micro-charcoal (AMS)	top levels
GifA-99089	5790±80	micro-charcoal (AMS)	top levels

(continued overleaf)

Musular

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic.
GrN-24924	8420±110	collagen	trench D 11 (1)
GrN-24923	8370±110	collagen	trench D 11 (1)
GrN-24918	8300±90	charcoal	trench N 13, open area fill (1, 2)
GrN-25461	8130±180	charcoal fraction	trench N 13, open area fill (2)
GrN-25611	8060±180	charcoal fraction	trench N 13, open area fill (2)
GrN-23518	7980±220	charcoal	trench D 11 (1)

Pınarbaşı

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic.
OxA-5501	9140±80	charcoal	ABU-Site A
OxA-5500	9290±80	charcoal	ABR-Site A
OxA-5499	9050±80	charcoal	ABJ-Site A
OxA-5504	7450±70	charcoal	trench 1, fill-Site B
OxA-5503	7145±70	charcoal	trench 1, fill-Site B
OxA-5502	5725±65	charcoal	trench 1, lens in shallow pit-Site B

Erbaba

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Stratigraphic indic.
GX-2545	7530±430	charcoal	level III
GX-2544	6925±550	charcoal	level III
I-5151	7730±120	charcoal	level III
GX-2543	7450±570	charcoal	levels II-I

Table 4.1 Çatalhöyük-South Area: Complete list of sampled contexts, including excavation levels, sample/space numbers and short context descriptions

No	Level	Unit/Sample	Space	Data category	No	Level	Unit/Sample	Space	Data category
1	7	1072.1	105	Layer/Midden/Fill (F56:wall)	51	9	5021.29	170	Layer/Floor/Floor use (B.17-Dirty Floor assoc. With F538)
2	7	1073.1	105	Arbitrary Layer/Dump/Fill (F56:wall)	52	9	5034.2	170	Layer/Rakeout/Floors use (B.17 assoc. with F541)
3	7	1091.2	105	Layer/Dump/Fill (F56:wall)	53	9	5059.2	170	Layer/Ash/Charcoal/Floors use (B.17-F548)
4	7	1506.1	105	Cluster/Bones/Cluster (F56:wall)	54	9	5220.1	182	Layer/Infill/Fill (B.17)
5	7	1627.2	107	Layer/Room fill/Midden	55	10	4664.3	172	Layer/Bin Infill/Fill (B.18)
6	7	1888.2	112	Layer/Floor/Rakeout (F196:hearth)	56	10	4708.4	171	Layer/Infill/Fill (B.18)
7	7	2022.2	112	Layer/Floor/Rakeout (F196:hearth)	57	10	4711.2	171	Layer/Pit fill/Fill (build. Fill derived from elsewhere)
8	7	2704.5	112	Layer/Oven fill (F196:oven fill of clayballs and stones burnt in situ)	58	10	4780.2	178	Layer/Floor/Floor use (B.23-Dirty floor)
9	7	2714.2	112	Layer Oven fill (F196: oven with associated fire pit-2714)	59	10	4783.2	178	Layer/Floor/Floor use (B.23-Dirty floor)
10	8	1066.2	115	Layer/Midden/Midden	60	11	4710.4	198	Layer/Accumulation/Activity (penning?)
11	8	1093.1	115	Cluster/Cluster/Cluster (dump)	61	11	4715.4	198	Layer/Accumulation/Activity (penning?)
12	8	1520.2	115	Layer/Midden/Midden	62	11	4716.4	198	Layer/Accumulation/Activity (penning?)
13	8	1523.2	115	Layer/Midden/Midden	63	11	4716.5	198	Layer/Accumulation/Activity (penning?)
14	8	1527.2	115	Layer/Midden/Midden	64	11	4850.4	198	Layer/Accumulation/Activity (penning?)
15	8	1530.2	115	Layer/Midden/Midden	65	12	4821.3	199	Layer/Accumulation/Activity (penning?)
16	8	1600.1	115	Layer/Midden/Midden	66	12	4822.4	199	Layer/Accumulation/Activity (penning?)
17	8	1638.1	115	Layer/Ashy lenses/Midden	67	12	4826.2	199	Layer/Burning layer/Activity (in situ burning of material in external area)
18	8	1657.2	115	Layer/Ash lens/Midden	68	12A	4824.3	181	Layer/Dump/Midden
19	8	2840.2	115	Layer/Midden/Midden	69	12A	4836.2	181	Layer Dump/Midden
20	8	2846.2	115	Layer/Midden/Midden	70	12A	4836.2	181	Layer/Dump/Midden
21	8	2869.1	115	Layer/Midden/Midden	71	12A	4837.3	181	Layer/Dump/Midden
22	8	2890.2	162	Arbitrary Layer/Room fill/Fill	72	12A	4838.2	181	Layer/Dump/Midden
23	8	3314.2	115	Arbitrary Layer/Midden/Midden	73	12A	4839.2	181	Layer Dump/Midden
24	8	3365.6	115	Layer/Open fire/In situ	74	12A	4842.2	181	Layer/Pit fill/Fill (homogeneous, similar to surrounding material)
25	8	3366.2	115	Layer/Dump/Midden	75	12A	4844.3	181	Layer Dump/Midden
26	8	3375.2	115	Cluster/Dump/Cluster	76	12A	4845.2	181	Layer Burning event/activity (external burning event over whole area)
27	8	3600.2	115	Layer/Basal scorching/construction-makeup (in situ)	77	12A	4846.2	181	Layer/Dump/Midden
28	8	3601.2	115	Layer/Open fire	78	12A	4848.2	181	Layer/Burning event/activity (external burning event over whole area)
29	8	3611.2	115	Layer/In situ fire place/activity	79	12B	4871.9	181	Layer Dump Midden
30	8	3612.2	115	Layer/In situ fire place/activity	80	12B	4872.2	181	Layer/Lime burning/Activity
31	8	3740.5	115	Layer/Infill/Midden?	81	12B	4873.2	181	Layer Burning event/Activity (external burning event over eastern end of Space 181)
32	8	3773.2	115	Layer/Dump/Midden	82	12B	4874.2	181	Layer Dump/Midden
33	8	4614.3	163	Layer/Burial fill/Fill (F513:burial-B.6)	83	12B	4875.5	181	Layer/Dump/Midden
34	8	4913.2	173	Layer/Pit fill/Fill (FI related-B.6)	84	12B	4879.5	181	Layer/Dump/Midden
35	8/9	1563.1	117	Layer/Midden/Midden	85	12B	4881.2	181	Layer Burning-scorching/Activity (related to lime burning? Small)
36	8/9	1642.2	115	Layer/Dump/Midden	86	12B	4883.2	181	Layer/Post pad/Fill (burned deposit)
37	8/9	1649.1	116	Layer/Building fill?/Midden (in abandoned building-fills whole of space 116)	87	12B	4884.2	181	Layer/Gully fill/Fill
38	8/9	1803.1	116	Arbitrary Layer/Dumped Room fill/Ar (B.2)	88	12B	5279.2	181	Layer/Bedding-makeup/Floors use (external surface for burning?)
39	9	1889.4	117	Layer/Domestic dump/Fill (non in situ fill of bin 257-B.2)	89	12B	5286.7	181	Layer/Dump/Midden
40	9	4605.2	170	Layer/Infill/Fill (Infill in post-retrieval pit-B.17)	90	12B	5290.10	181	Layer/Dump/Midden
41	9	4625.1	170	Arbitrary Layer/Infill/Fill (B.17)	91	12B	5291.6	181	Layer/Dump/Midden
42	9	4626.1	170	Arbitrary Layer/Infill/Fill (B.17)	92	12B	5292.3	181	Layer/External surfaces/Floors use (all over 181, activities including burning?)
43	9	4632.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	93	12C	5299.2	181	Layer/Fill of cut/Fill (not in-situ lime? burning debris)
44	9	4634.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	94	12C	5310.5	181	Layer Dump Midden
45	9	4636.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	95	12C	5313.2	181	Layer Dump/Midden
46	9	4638.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	96	12C	5315.2	181	Layer Dump Midden
47	9	4644.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	97	12C	5317.2	181	Layer Basal Dump Midden
48	9	4648.1	170	Layer/Arbitrary Layer/Fill (Infill B.17)	98	12C	5326.3	181	Arbitrary Layer/Aluvium/Midden
49	9	4654.1	170	Layer/Fill/Fill (B.17 Infill above Platform F558)	99	12D	5328.3	181	Arbitrary Layer/Aluvium/Midden
50	9	4921.2	182	Layer/Room fill/Fill (B.17)					

Çatalhöyük

Laboratory no.	Radiocarbon yrs B.P.	Sample material	Excavation level
P-1374	7757±92	charcoal-elm	XII
P-782	8092±98	charcoal	X
P-1370	8036±104	ashes; charcoal-elm	X
P-1369	7937±109	charcoal	X
P-1372	7915±85	charcoal-elm, bone	X
P-1371	7844±102	charcoal	X
P-779	8190±99	charcoal	IX
P-1367	7853±97	charcoal-elm/oak	VIII
P-1366	7684±90	charcoal	VIII
P-1363	7911±103	charcoal-timber?	VII
P-1364	7936±98	charcoal-elm	VIb
P-770	7912±94	charcoal-juniper	VIb
P-1362	7904±111	charcoal-oak	VIb
P-777	7704±91	charcoal-juniper	VIb
P-797	7629±90	charcoal-juniper	VIb
P-781	7524±90	charcoal-oak	VIb
P-1365	7729±80	charcoal-juniper	VIa
P-1375	7661±99	charcoal-elm	VIa
P-772	7572±91	charcoal-oak	VIa
P-827	7579±86	human brain	VIa
P-778	7538±89	grain	VIa
P-769	7505±93	grain	VIa
P-776	7640±91	charcoal-juniper	V
P-1361	7499±93	charcoal-juniper	V
P-775	8037±96	charcoal-juniper	IV
P-774	7531±94	charcoal-timber	III
P-796	7521±77	grain (2 types)	II
nd	7930±80	seed	Building 1, phase 1
nd	7570±80		Building 1, phase 1
nd	7950±80	charcoal	Building 1, phase 1
nd	7898±80	seed	Building 1, phase 1
nd	80960± 80	charcoal	Building 1, phase 1

Table 4.2 List of the radiocarbon dates published thus far (not including the pre-level XII material) from Çatalhöyük (source: the electronic database of the Central Anatolian Neolithic e-Workshop, <http://canew.multimania.com/carbondatabase.htm>)

Mellaart's level	p12A	p12A	p12A	p12A	p12A	p12A	p12A	p12A	p12A	p12A	p12B	p12B	p12B	p12B	p12B	p12B	p12C	p12C	p12C	p12D	p12D
Context description	4824.3	4836.2	4837.3	4838.2	4839.2	4844.3	4846.2	4871.9	4874.2	4875.5	4879.5	5286.7	5290.10	5299.2	5310.5	5313.2	5315.2	5317.2	5326.3	5328.3	
Sample no.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Space no.	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181
Flot no.	2871	2880	2886	2976	2929	2961	2991	3008	3255	3269	3282	3310	3541	3638	3708	3744	3746	3756	3805	3837	3837
No. of fragments examined	150	150	150	150	150	150	140	104	150	150	150	72	150	150	93	150	150	150	131	150	150
Quercus	49	74	36	43	56	67	86	2	5	5	1	1	1	1	1	1	1	1	1	1	1
Gymnosperms																					
Juniperus					1		2	2	1	1	1			1	1	1	1	1			
Pinus cf. nigra																					
Salicaceae	12	2	30	26	29	21	20	36	13	23	21	14	9	32	5	3	17	15	52	39	17
Ainus																					
Vitex									1	1											
Ternstroem																					
Fragaria							1														
Platanus																	2				
cf. Clematis																3					
cf. Vitis																					
Ulmus	2	12	10	12	4	8	8	18	13	21	1	4	5	1	1	13	35	3	4	5	5
Ulmaceae indet.																					
Ulmaceae/Pisacia	11	12	10	12	4	8	8	18	13	21	23	45	6	32	47	14	39	54	32	15	49
Celtis	18		19	16	8	9	10	8	4	12	7	3	8	14			3	8		7	16
Anacardiaceae indet.	1	1	1	1		1			1	1	1		1			1				4	4
Pisacia	4	1	2				1	1	1	4	2	1	1	4		3			1	5	5
Malvaceae indet.	2		1		5		1	4	4	1	2									2	2
Rosaceae indet.																					
Amygdalus								5		2	3	1	1	1			3	3	1		
Prunus																		1			
Rosa																					
Ficus cf. carica																					
Chenopodiaceae indet.	1									1	1			2					1	1	1
Asteraceae indet.	1					8		1	2	2	1								1		
Asteraceae indet.																					
Antennaria										1											
Lamiaceae indet.																					
Fabaceae indet.	3																				
cf. Cytisus																					
cf. Cereus																					
Capparis																					
Acer																					
Cornus																					
cf. Corniflorae																					
Indet.	48	58	51	50	46	36	20	62	61	75	85	75	46	61	92	75	68	36	56	57	49
Total	150	150	150	150	150	150	150	140	104	150	150	150	72	150	150	93	150	150	150	131	150

Table 4.3b Çatalhöyük-South Area: List of identifications for all midden/dump deposits of pre-level XII Phases A-D

	Fragment counts				Presence scores				Fragm. counts p12A-p12A(4846)-D			
	7-9	%	p12A-D	%	7-9	%	p12A-D	%	p12A	%	p12A-D	%
Quercus	1821	56.92	428	24.70	27	100.0	15	71.4	411	55.47	17	1.71
Juniperus	136	4.25	10	0.58	25	92.6	8	38.1	3	0.40	7	0.71
Pinus	1	0.03			1	3.7						
Salicaceae	341	10.66	436	25.16	27	100.0	21	100.0	140	18.89	296	29.84
Alnus	13	0.41			5	18.5						
Vitex	6	0.19	2	0.12	3	11.1	2	9.5			2	0.20
Tamarix	8	0.25	2	0.12	7	25.9	2	9.5			2	0.20
Fraxinus	25	0.78	1	0.06	13	48.1	1	4.8	1	0.13		
Platanus	2	0.06	2	0.12	2	7.4	1	4.8			2	0.20
Clematis	1	0.03	3	0.17	1	3.7	1	4.8			3	0.30
Ulmus	91	2.84	76	4.39	25	92.6	13	61.9	3	0.40	73	7.36
Ulmaceae	134	4.19	473	27.29	25	92.6	21	100.0	65	8.77	408	41.13
Celtis	174	5.44	170	9.81	24	88.9	17	81.0	80	10.80	90	9.07
Pistacia	62	1.94	31	1.79	21	77.8	14	66.7	8	1.08	23	2.32
Maloideae	120	3.75	22	1.27	21	77.8	9	42.9	9	1.21	13	1.31
Amygdalus	31	0.97	20	1.15	13	48.1	9	42.9			20	2.02
Prunus	29	0.91	2	0.12	16	59.3	2	9.5			2	0.20
Rosa	9	0.28	1	0.06	6	22.2	1	4.8			1	0.10
Ficus	2	0.06			2	7.4						
Chenopodiaceae	20	0.63	77	0.40	12	44.4	6	28.6	1	0.13	6	0.60
Asteraceae	34	1.06	20	1.15	18	66.7	8	38.1	10	1.35	10	1.01
Lamiaceae	22	0.69	3	0.17	14	51.9	2	9.5			3	0.30
Fabaceae	93	2.91	4	0.23	17	63.0	2	9.5	4	0.54		
Caparis	2	0.06	1	0.06	2	7.4	1	4.8	1	0.13		
Acer	10	0.31			5	18.5						
Cornus	1	0.03	1	0.06	1	3.7	1	4.8			1	0.10
Caprifoliaceae	1	0.03			1	3.7						
Indet.	851		1207						309		898	
Total	4050		2940						1050		1890	
Total (-Indet.)	3199	100	1733	100	27	100	21	100	741	100	992	100

Table 4.4 Çatalhöyük-South Area: Abundance values and presence scores for all midden/dump deposits (main taxa only; percentage fragment counts have been calculated after excluding indeterminate fragments from the sums)

	Litres	Unit	TotalW	STDW	Indet.	Total	Total ID	Fr/Pres Ind.	S-W Ind.
1	4	1072,1	6,60	1,65	37	150	113	0,33	0,52
2	32	1073,1	15,68	0,49	33	150	117	0,28	0,68
3	38	1091,2	34,58	0,91	29	150	121	0,24	0,59
4	34	1506,1	15,30	0,45	25	150	125	0,20	0,63
5	11,5	1627,2	20,13	1,75	29	150	121	0,24	0,75
6	34	1066,2	105,06	3,09	33	150	117	0,28	0,91
7	29	1093,1	50,46	1,74	32	150	118	0,27	0,73
8	16	1520,2	11,52	0,72	29	150	121	0,24	0,75
9	38	1523,2	34,58	0,91	25	150	125	0,20	0,47
10	37	1527,2	15,91	0,43	28	150	122	0,23	0,47
11	32	1530,2	88,32	2,76	17	150	133	0,13	0,59
12	15	1563,1	20,70	1,38	15	150	135	0,11	0,65
13	18	1600,1	87,84	4,88	19	150	131	0,15	0,89
14	20	1638,1	35,20	1,76	38	150	112	0,34	0,63
15	37	1657,2	77,33	2,09	35	150	115	0,30	0,89
16	35	2840,2	38,15	1,09	58	150	92	0,63	0,75
17	27	2846,2	16,47	0,61	36	150	114	0,32	0,72
18	27	2869,1	18,36	0,68	31	150	119	0,26	0,58
19	34	2890,2	4,42	0,13	28	150	122	0,23	0,53
20	39	3314,2	28,47	0,73	37	150	113	0,33	0,54
21	35	3366,2	9,45	0,27	23	150	127	0,18	0,52
22	28	3375,2	22,96	0,82	31	150	119	0,26	0,51
23	30	3740,5	33,90	1,13	36	150	114	0,32	0,8
24	34	3773,2	31,96	0,94	45	150	105	0,43	0,56
25	17	1642,2	6,46	0,38	40	150	110	0,36	0,74
26	19	1649,1	22,80	1,20	32	150	118	0,27	0,75
27	19	1803,1	11,40	0,60	30	150	120	0,25	0,78
28	25	4824,3	38,75	1,55	48	150	102	0,47	0,67
29	28	4836,2	37,80	1,35	55	150	96	0,57	0,59
30	35	4837,3	15,05	0,43	50	150	100	0,50	0,59
31	35	4838,2	76,65	2,19	46	150	104	0,44	0,54
32	39	4839,2	17,94	0,46	36	150	114	0,32	0,52
33	39	4844,3	17,16	0,44	20	150	130	0,15	0,50
34	31	4846,2	7,13	0,23	62	140	78	0,79	0,70
35	39	4871,9	1,17	0,03	61	104	43	1,42	0,74
36	37	4874,2	4,44	0,12	75	150	75	1,00	0,79
37	32	4875,5	1,92	0,06	85	150	65	1,31	0,72
38	32	4879,5	3,52	0,11	75	150	75	1,00	0,59
39	27	5286,7	16,20	0,60	46	72	26	1,77	0,58
40	39	5290,10	2,73	0,07	61	150	89	0,69	0,62
41	38	5299,2	5,70	0,15	92	150	58	1,59	0,31
42	20	5310,5	9,80	0,49	75	93	18	4,17	0,28
43	36	5313,2	10,80	0,30	68	150	82	0,83	0,64
44	36	5315,2	13,32	0,37	36	150	114	0,32	0,54
45	22	5317,2	9,46	0,43	56	150	94	0,60	0,48
46	34	5326,3	7,48	0,22	57	131	74	0,77	0,61
47	20	5328,3	1,00	0,05	49	150	101	0,49	0,64
			Mean	0,92			Mean	0,56	0,63
			Median	0,60			Median	0,32	0,62

Table 4.5 Çatalhöyük-South Area: Complete listing of unit details including litres of soil floated, total charcoal weights weights, density (g/l: STDW), fragmentation/preservation (total ID: indet.-Fr/Pr index), and diversity (Shannon-Wiener index) measurements for all midden/dump units (values for unit 4836 s.2 have been averaged)

Mellaart's level	7	7	7	7	8	8	8	8	8	8	8
Context category	8	8	10	10	7	7	7	7	7	10	11
Unit & Sample no.	1888.2	2022.2	2704.5	2714.2	3365.6	3600.2	3601.2	3611.2	3612.2	4913.2	4614.3
Space	112	112	112	112	115	115	115	115	115	173	163
Flot no.	720	806	1093	1095	1918	1752	1966	1920	1800	2971	2730
Fragments examined	152	150	84	54	150	150	74	67	150	150	150
Quercus	54	56	35	27	114	138	52	54	90	70	72
Gymnosperms											
Juniperus	16	7				1			2		
Salicaceae	12	9	4			3			6	12	9
Vitex			1	1							
Tamarix	1										
Fraxinus	2	1								2	
cf. Clematis											
cf. Vitis											
Ulmus	1	1	2	1		2					8
Ulmaceae indet.	3	3	1	4		1			6	17	21
Ulmaceae/Pistacia											
Celtis	2	8	1	3	5		1	1	6	4	5
Anacardiaceae indet.						2					
Pistacia	1	7	1	6						1	
Maloideae indet.	7	3				2				2	
Rosaceae indet.											
Amygdalus								1	1		2
Prunus	1		1								
Rosa			1								
Chenopodiaceae indet.									2		7
Asteraceae indet.											
Artemisia											1
Lamiaceae indet.		5								1	
Fabaceae indet.	5	5	1								1
cf. Colutea											
cf. Genista	2										
Capparis		1									
Acer											
Cornus											
cf. Caprifoliaceae		1	1								
Indet.	45	43	35	12	31	1	21	11	37	41	24
Total	152	150	84	54	150	150	74	67	150	150	150

Table 4.6a Çatalhöyük-South Area: List of identifications for all non-midden/dump contexts (excavation levels VII-VIII)

C. category 7: Activity/Open fire					
	3365	3600	3601	3611	3612
Quercus	114	138	52	54	90
Juniperus		1			2
Riverine		5			6
Ulmaceae		1			6
Fruit	5	2	1	2	7
Shrubs					2
Indet.	31	1	21	11	37

C. category 5: Accumulation/Penning						
	4710	4715	4716	4821	4822	4850
Quercus	101	33	65	69	96	35
Juniperus			1	3		
Riverine	9	4	20	13	8	72
Ulmaceae	8	6	18	12	2	26
Fruit	2		5	3	3	1
Shrubs		2	1			
Indet.	30	16	42	28	40	16

C. category 6: Building infills														
	4605	4625	4626	4632	4634	4636	4638	4644	4648	4654	5220	4664	4708	4921
Quercus	53	66	40	67	58	38	72	36	21	70	83	70	60	54
Juniperus	2				2			1				1	1	
Riverine	19	18	5	12	7	3	13	22	7	8	18	24	18	31
Ulmaceae	29	25	11	32	27	13	16	9	14	25	16	22	4	9
Fruit	2	1	3	1	7	3	2	5	1	2	2	11	1	18
Acer										1				
Shrubs	1		1	2	1			6	2	2		1		6
Indet.	43	40	22	34	49	25	31	17	22	39	31	21	11	32

C. category 9: Activity/Burning event									
	4826	4845	4848	4872	4873	4881	4883	5279	5291
Quercus	122	1	2	4	1	1	1		2
Juniperus				3					
Riverine	13	22	13	16	14	13		6	24
Ulmaceae	2		6	9	3	2	6	2	53
Fruit	1	12	2	16	4	10	3	7	10
Shrubs					2		5		2
Indet.	12	79	8	70	46	59	95	35	59

C. category 8: Activity/Floors use (Rakeout)							
	1888	2022	5021	5034	5059	4780	4783
Quercus	54	56	15	42	2	27	37
Juniperus	16	7				1	
Riverine	16	11	12	25	39	2	6
Ulmaceae	3	3	45	6	48	1	1
Fruit	11	18	4	13	4	19	14
Shrubs	7	12				1	1
Indet.	45	43	74	63	57	32	38

C. categories 10, 11: Feature fills & Burial fill (4614)									
	2704	2714	4614	4913	1889	4711	4842	4884	5292
Quercus	35	27	72	70	36	85	26	1	2
Riverine	7	2	17	14	10	10	30	18	10
Ulmaceae	1	4	21	17	17	13	9	15	48
Fruit	3	9	7	7	48	2	29	2	6
Cornus									4
Shrubs	3		9	1	16		4	1	1
Indet.	35	12	24	41	23	20	50	17	79

Table 4.7 Çatalhöyük-South Area: Summary absolute fragment counts for all non-midden/dump units

	Raw fragment counts						Percentage fragment counts					
	C.c.7	C.c.5	C.c.6	C.c.8	C.c.9	C.c.10,11	C.c.7	C.c.5	C.c.6	C.c.8	C.c.9	C.c.10,11
Quercus	448	399	734	134	233	408	91.8	64.6	60.4	32.3	40.2	46.0
Juniperus	3	4	7	3	24		0.61	0.6	0.6	0.7	4.1	
Riverine	11	126	174	121	111	149	2.25	20.4	14.3	29.2	19.2	16.8
Ulmaceae	7	72	243	83	107	154	1.43	11.7	20.0	20.0	18.5	17.4
Celtis	13	13	19	41	45	56	2.66	2.1	1.6	9.9	7.8	6.3
Pistacia		1	4	9	14	19		0.2	0.3	2.2	2.4	2.1
Maloideae	2		9	10	23	50	0.41		0.7	2.4	4.0	5.6
Amygdalus	2		8	5		5	0.41		0.7	1.2		0.6
Prunus			1		1	1			0.1		0.2	0.1
Cornus						4						0.5
Acer			1						0.1			
Shrubs	2	3	16	9	21	41	0.41	0.5	1.3	2.2	3.6	4.6
Indet	101	172	417	463	352	301						
Total (-Indet.)	488	618	1216	415	579	887	100.0	100.0	100.0	100.0	100.0	100.0

Table 4.8 Çatalhöyük-South Area: Summary absolute and percentage fragment counts for all non-midden/dump deposits, grouped by context category/type (sums exclude indeterminate fragments)

	Litres	Level	Context c.	Unit	TotalW	STDW	Indet.	Total	Total ID	Fr/Pres	S-W Ind.
1	25	11	5	4710.4	1,87	0,07	30	150	120	0,25	0,25
2	20	11	5	4715.4	0,37	0,02	16	61	45	0,36	0,38
3	26	11	5	4716.4	2,06	0,08	45	150	105	0,43	0,46
4	26	12	5	4821.3	1,53	0,06	28	128	100	0,28	0,45
5	20	12	5	4822.4	1,19	0,06	40	150	110	0,36	0,20
6	25	11	5	4850.4	1,93	0,08	16	150	134	0,12	0,48
7	30	11	5	4716.5	0,66	0,02	39	150	111	0,35	0,50
8	24	9	6	4605.2	1,78	0,07	43	150	107	0,40	0,57
9	24	9	6	4625.1	1,69	0,07	40	150	110	0,36	0,47
10	25	9	6	4626.1	0,63	0,03	22	82	60	0,37	0,45
11	25	9	6	4632.1	2,27	0,09	34	150	116	0,29	0,49
12	25	9	6	4634.1	1,11	0,04	49	150	101	0,49	0,55
13	23	9	6	4636.1	0,47	0,02	25	82	57	0,44	0,41
14	15	9	6	4638.1	1,03	0,07	31	134	103	0,30	0,42
15	11	9	6	4644.1	0,73	0,07	17	97	80	0,21	0,60
16	13	9	6	4648.1	0,90	0,07	22	68	46	0,48	0,58
17	22	9	6	4654.1	2,48	0,11	39	150	111	0,35	0,50
18	18	10	6	4664.3	1,84	0,10	21	150	129	0,16	0,63
19	31	10	6	4708.4	0,73	0,02	11	95	84	0,13	0,37
20	27	9	6	4921.2	6,01	0,22	32	150	118	0,27	0,71
21	32	9	6	5220.1	2,67	0,08	31	150	119	0,26	0,38
22	0,4	8	7	3365.6	0,56	1,39	31	150	119	0,26	0,07
23	2	8	7	3600.2	9,43	4,72	1	150	149	0,01	0,02
24	0,9	8	7	3601.2	0,55	0,61	21	74	53	0,40	0,00
25	0,3	8	7	3611.2	0,61	2,03	11	67	56	0,20	0,07
26	4	8	7	3612.2	1,51	0,38	37	150	113	0,33	0,36
27	10,5	7	8	1888.2	1,51	0,14	45	152	107	0,42	0,71
28	19	7	8	2022.2	4,26	0,22	43	150	107	0,40	0,76
29	28	10	8	4780.2	2,69	0,10	32	83	51	0,63	0,54
30	36	10	8	4783.2	5,37	0,15	38	98	60	0,63	0,46
31	20	9	8	5034.2	0,07	0,00	63	150	87	0,72	0,55
32	1	9	8	5059.2	4,12	4,12	57	150	93	0,61	0,51
33	24	9	8	5021.29	1,47	0,06	74	150	76	0,97	0,54
34	5	12	9	4826.2	17,63	3,53	12	150	138	0,09	0,18
35	43	p12A	9	4845.2	3,11	0,07	79	130	51	1,55	0,43
36	40	p12A	9	4848.2	0,18	0,00	8	31	23	0,35	0,50
37	36	p12B	9	4872.2	0,48	0,01	70	118	48	1,46	0,70
38	22	p12B	9	4873.2	0,50	0,02	46	70	24	1,92	0,66
39	26	p12B	9	4881.2	0,69	0,03	59	85	26	2,27	0,71
40	1,5	p12B	9	4883.2	0,92	0,61	95	111	16	5,94	0,66
41	33	p12B	9	5279.2	0,35	0,01	35	50	15	2,33	0,56
42	31	p12B	9	5291.6	1,26	0,04	59	150	91	0,65	0,59
43	17	9	10	1889.4	41,51	3,00	23	150	127	0,18	0,73
44	2	7	10	2704.5	0,57	0,29	35	84	49	0,71	0,51
45	0,5	7	10	2714.2	0,40	0,81	12	54	42	0,29	0,46
46	26	10	10	4711.2	1,08	0,04	20	130	110	0,18	0,32
47	34	p12A	10	4842.2	5,72	0,17	50	150	100	0,50	0,76
48	37	p12B	10	4884.2	0,40	0,01	17	54	37	0,46	0,50
49	16	8	10	4913.2	1,15	0,07	41	150	109	0,38	0,50
50	6	p12C	10	5292.3	2,00	0,33	79	150	71	1,11	0,46
51	20	8	11	4614.3	5,34	0,27	24	150	126	0,19	0,46
					Mean	0,48			Mean	0,64	0,47
					Median	0,07			Median	0,37	0,50

Table 4.9 Çatalhöyük-South Area: Complete listing of unit details including litres of soil floated, total charcoal weights, density (g/l: STDW), fragmentation/preservation (total ID: indet.-Fr/Pr index), and diversity (Shannon-Wiener index) measurements for all non-midden/dump units

Phase	Unit/Sample	Space	Data category
1	B1.2B 1437.1	187	Arbitrary Layer/Floors/Floor use
2	B1.2B 1440.1	71	Layer/Floor-packing/Floors use/FI33
3	B1.2B 1372.2	71	Layer/Burial fill/Fill (F30: Burial)
4	B1.2C 1291.1	187	Layer/deposit on floor/Fill (assoc. with FI11)
5	B1.2C 1332.1	71	Layer/Burnt Bin fill/Cluster (on floor of bin F215-"lentil bin")
6	B1.2C 1344.9	71	Layer/Lentil layer/Cluster (on floor of bin F215-"lentil bin")
7	B1.2C 1367.1	71	Surface/Floor/Floors use
8	B1.2C 1423.7	71	Layer/grinding area/floors use (F27 grinding installation)
9	B1.3 1222.256	188	Layer/Burnt fill above floor/Fill
10	B1.3 1223.275	188	Layer/Burnt fill above floor/Fill
11	B1.3 1318.4	188	Layer/Fill above floor/Fill (primary collapse dump?)
12	B1.3 1319.7	188	Layer/Burnt deposit/Fill
13	B1.3 1349.2	71	Layer/Fill of hollow/Fill (Hearth?)
14	B1.4 1358.16	110	Surface/Floor/Floors use (plaster floors)
15	B1.4 1359.19	183	Layer/Floor/Floors use (Floor surface)
16	B1.4 1366.1	183	Layer/FI fill/Floors use (Fire Installation 14)
17	B1.4 1368.1	110	Layer/Burial fill/Fill (F28:burial)
18	B1.4 1386.2	183	Layer/FI fill/arbitrary (Fire Installation 14)
19	B1.4 1390.1	183	Layer/?Building fill/Fill (Stakehole)
20	B1.4 1391.1	183	Layer/Building fill?/Fill
21	B1.5A-2 1264.1	183	Layer/Room fill/Fill (Floors?)
22	B1.5A-2 1283.9	183	Layer/Room fill/Fill (Floors?)
23	B1.E 1310.2	73	Layer/External/Fill
24	B1.E 1315.1	73	Layer/External/Fill
25	B1.E 1347.1	73	Layer/External fill/Fill (between buildings)
26	B1.E 1351.2	69	Layer/External fill/Fill (between buildings)
27	B1.E 1396.1	69	Layer/Collapsed material/Fill (between walls)

Table 4.10 Catalhöyük-North Area: Complete listing of sampled units from Building 1

Unit & sample no.	1222.256	1223.275	1264.1	1283.9	1291.1	1310.2	1315.1	1318.4	1319.7	1332.1	1344.9	1347.1	1349.2	1351.2	1358.16
Space no.	188	188	183	183	187	73	73	188	188	71	71	73	71	69	110
Flot no.	14	24	268	24	117	160	161	109	247	89	144	141	135	142	406
Fragments examined	150	150	102	100	150	150	71	30	84	96	100	150	100	104	56
Quercus	42	129	35	54	79	81	19	24	29	51	43	79	74	50	34
Gymnosperms			1									1			
Juniperus	5	1	7	7	22	6	3		9	2	1	3	1	31	5
Salicaceae indet.	33	2	19	15	32		1	6	6	1			17	6	
Vitex							1								
Tamarix															
Fraxinus															
Platanus															
Ulmus			6		8	4	4				9		1		
Ulmaceae indet.	16	3	12	6	4	4				3	14	6			
Celtis	2	2	5			2					17	2		1	
Ulmaceae/Pistacia												1			
Pistacia						6						4		2	1
Maloiidae indet.															
Rosaceae indet.					1										
Amygdalus												5			
Rosa										1					
Ficus															
Chenopodiaceae indet.							1								
Asteraceae indet.												4			
Artemisia															
Lamiaceae indet.							1					2			
Fabaceae indet.					2	1	2		1	2		1		1	
cf. Colutea						2	1		1						
cf. Genista						2									
Capparis	1						2								
cf. Caprifoliaceae															
Indet.	51	13	17	18	2	42	36		38	36	16	42	7	13	16
Total	150	150	102	100	150	150	71	30	84	96	100	150	100	104	56

Table 4.11a Çatalhöyük-North Area: Complete list of identifications from Building 1 contexts (continued)

Unit & sample no.	1359.19	1366.1	1367.1	1368.1	1372.2	1386.2	1390.1	1391.1	1396.1	1423.7	1437.1	1440.1
Space no.	183	183	71	110	71	183	183	183	69	71	187	71
Flot no.	378	273	271	384	321	395	399	400	410	570	510	514
Fragments examined	32	98	117	100	179	93	100	74	150	59	130	100
Quercus	15	58	52	52	98	31	11	60	105	14	36	48
Gymnosperms						1						
Juniperus	2	4	10	2	9	2			12	1	22	2
Salicaceae indet.	2	4	2	4	4	33	34		2	2	7	2
Vitex												
Tamarix			1									
Fraxinus				1	3							
Platanus						1						
Ulmus			2		3	1	1				3	4
Ulmaceae indet.	1	2	4	2	3	1			3	2	8	1
Celtis				1	1		3		4		2	
Ulmaceae/Pistacia							6					
Pistacia	1		1				3		4	1	3	1
Maloideae indet.			1		1							
Rosaceae indet.				1								
Amygdalus					2						1	
Rosa						1					1	1
Ficus							4				1	2
Chenopodiaceae indet.		1			1						1	1
Asteraceae indet.												
Artemisia											3	
Lamiaceae indet.	1	2		1	4						2	2
Fabaceae indet.	1	3	5	5	1		1		2	4	5	3
cf. Colutea		1	1								3	
cf. Genista			2									
Capparis											1	
cf. Caprifoliaceae									2		2	
Indet.	9	23	36	31	48	22	37	14	18	35	30	33
Total	32	98	117	100	179	93	100	74	150	59	130	100

Table 4.11b Çatalhöyük-North Area: Complete list of identifications from Building 1 contexts

	B1.2	%	B1.3	%	B1.4	%	B1.5A-2	%	B1.E	%
Quercus	421	60.58	298	73.58	261	65.09	89	53.29	334	70.46
Juniperus	69	9.93	16	3.95	15	3.74	14	8.38	55	11.60
Salicaceae	50	7.19	64	15.80	77	19.20	34	20.36	7	1.48
Vitex									1	0.21
Tamarix	1	0.14								
Fraxinus	3	0.43			1	0.25				
Platanus					1	0.25				
Ulmus	29	4.17	1	0.25	2	0.50	6	3.59	8	1.69
Ulmaceae	39	5.61	19	4.69	6	1.50	18	10.78	13	2.74
Celtis	20	2.88	4	0.99	4	1.00	5	2.99	9	1.90
Pistacia	6	0.86			5	1.25			14	2.95
Maloideae	2	0.29							2	0.42
Amygdalus	3	0.43							5	1.05
Rosa	3	0.43			1	0.25				
Ficus	3	0.43			5	1.25				
Chenopodiaceae	1	0.14							1	0.21
Asteraceae	5	0.72							4	0.84
Lamiaceae	8	1.15			4	1.00			3	0.63
Fabaceae	28	4.03	2	0.49	11	2.74			12	2.53
Capparis	1	0.14	1	0.25					2	0.42
Caprifoliaceae	2	0.29							2	0.42
Indet.	236		109		152		35		151	
Total	931		514		553		202		625	
Total (-Indet.)	695	100	405	100	401	100	167	100	474	100

	B1.2B	B1.2B	B1.2B	B1.2C	B1.2C	B1.2C	B1.2C	B1.2C	B1.2C	B1.3	B1.3	B1.3	B1.3	B1.3
	1372.2	1437.1	1440.1	1291.10	1332.1	1344.9	1367.1	1423.7	1222.256	1223.275	1318.4	1319.7	1349.2	
Quercus	98	36	48	79	51	43	52	14	42	129	24	29	74	
Juniperus	9	22	2	22	2	1	10	1	5	1		9	1	
Riverine	10	10	6	40	1	9	5	2	33	2	6	6	18	
Ulmaceae	3	8	1	4	3	14	4	2	16	3				
Celtis	1	2					17		2	2				
Pistacia		3	1					1	1					
Maloideae	1							1						
Amygdalus	2	1												
Ficus	1		2											
Shrubs	6	18	7	2	3		8	4	1			2		
Indet.	48	30	33	2	36	16	36	35	51	13		38	7	

	B1.4	B1.4	B1.4	B1.4	B1.4	B1.4	B1.4	B1.4	B1.5A-2	B1.5A-2	B1.E	B1.E	B1.E	B1.E	B1.E
	1358.16	1359.19	1366.1	1368.1	1386.2	1390.1	1391.1	1264.10	1283.9	1310.2	1315.1	1347.1	1351.2	1396.1	
Quercus	34	15	58	52	31	11	60	35	54	81	19	79	50	105	
Juniperus	5	2	4	2	2			7	7	6	3	3	31	12	
Riverine		2	4	5	35	35		25	15	4	6		6		
Ulmaceae		1	2	2	1			12	6	4		6		3	
Celtis				1			3	5		2		2	1	4	
Pistacia	1	1					3			6		4		4	
Maloideae														2	
Amygdalus													5		
Ficus			1			4									
Shrubs		2	6	6	1	1				5	7	7	1	4	
Indet.	16	9	23	31	22	37	14	17	18	42	36	42	13	18	

Table 4.12 Çatalhöyük-North Area: Summary absolute/percentage fragment counts by phase (top) and absolute fragment counts (middle-bottom; contexts are listed by phase)

Phase	Unit	Space	Flot	4mm	2mm	HR	Total W	Litres	Total ID	STDW	Fr/Pr	S-W
1 B1.2B	1372.2	71	321	1.28	1.071	0.102	2.453	29	179	0.08	0.37	0.47
2 B1.2B	1437.1	187	510	14.63	1.95		16.580	52	130	0.32	0.30	0.78
3 B1.2B	1440.1	71	514	0.53	0.073		0.603	30	100	0.02	0.49	0.50
4 B1.2C	1291.10	187	117	8.695	6.116		14.811	7	150	2.12	0.01	0.56
5 B1.2C	1332.1	71	89	7.715	0.376	0.021	8.112	11	96	0.74	0.60	0.28
6 B1.2C	1344.9	71	144	28.811	0.319		29.130	0.21	100	138.71	0.19	0.43
7 B1.2C	1367.1	71	271	0.267	0.693	0.079	1.039	15	117	0.07	0.44	0.58
8 B1.2C	1423.7	71	570	0.099	0.267	0.02	0.386	8	59	0.05	1.46	0.56
9 B1.3	1222.256	188	14	0.530	0.888		1.418	2.5	150	0.57	0.52	0.53
10 B1.3	1223.275	188	24	2.610	2.130		4.740	10	150	0.47	0.09	0.11
11 B1.3	1318.4	188	109	0.072	0.137		0.209	2	30	0.10	0.00	0.21
12 B1.3	1319.7	188	247	0.151	0.602		0.753	26	84	0.03	0.83	0.31
13 B1.3	1349.2	71	135	31.27	3.325		34.595	8.5	100	4.07	0.08	0.25
14 B1.4	1358.16	110	406	0.08	0.16	0.05	0.290	22	56	0.01	0.40	0.21
15 B1.4	1359.19	183	378		0.127	0.017	0.144	5	32	0.03	0.39	0.51
16 B1.4	1366.1	183	273	0.181	0.471		0.652	10	98	0.07	0.31	0.39
17 B1.4	1368.1	110	384	0.2	0.467		0.667	19	100	0.04	0.45	0.41
18 B1.4	1386.2	183	395	0.893	1.965		2.858	14	93	0.20	0.31	0.46
19 B1.4	1390.1	183	399	0.992	0.736		1.728	0.5	100	3.46	0.59	0.63
20 B1.4	1391.1	183	400	0.056	0.186		0.242	0.5	74	0.48	0.23	0.00
21 B1.5A-2	1264.10	183	268	2.927	1.118		4.045	22	102	0.18	0.20	0.61
22 B1.5A-2	1283.9	183	211	1.905	0.510		2.415	0.44	100	5.49	0.22	0.42
23 B1.E	1310.2	73	160	4.377	1.316		5.693	0.6	150	9.49	0.39	0.43
24 B1.E	1315.1	73	161	0.927	0.222		1.149	44	71	0.03	1.03	0.68
25 B1.E	1347.1	73	141	2.431	1.043		3.474	52	150	0.07	0.39	0.45
26 B1.E	1351.2	69	142	2.267	2.461		4.728	43	104	0.11	0.14	0.45
27 B1.E	1396.1	69	410	0.96	1.01		1.970	20	150	0.10	0.14	0.34
									Mean	6.19	0.39	0.43
									Median	0.11	0.37	0.45

Table 4.13 Çatalhöyük-North Area. Complete listing of details for all sampled contexts of building 1 including litres of soil floated, float and HR weights, numbers of ID fragments and values for density (STDW, g/l), fragmentation/preservation (Fr/Pr total ID:Indet.) and diversity (Shannon-Wiener index) measurements

Locus	EN	EN	Infill/LN	Infill/LN	Infill/LN	Infill/LN	Infill/LN	Infill/LN	Infill/LN	Infill/LN	Infill/LN
	ABJ	ABU	BBH	BBH	BBH	BBH	BBA	BAZ	BAX	BAW	BAT
Sample	31	36	116.2	118.2	119.3	122.2	38	37	34	30	32
Pistacia	1		27	23	38	28	36	52	32	23	25
Amygdalus	20		98	122	81	134	126	94	116	129	111
Rosa	5		6	3	10		1	1		2	1
Amygdalus/Rosa	26		7	8	14	4	1	3	2		8
Prunus		3									
Maloideae indet.											
Celtis			4	10	4	8	8	4	3		2
Quercus											
Acer											
Juniperus								1			
Fabaceae indet.	1			1							
Capparis				1							
Asteraceae indet.											
Artemisia		3			1						
Chenopodiaceae		1									
Tamarix			1		1	2	2	4		1	1
Clematis				1							
Fraxinus				2		2	1	3	2	5	
Phragmites	1				1						
Rhamnus			1								
Indet.	46	32	56	29	50	22	25	38	45	40	52
Total	100	39	200	200	200	200	200	200	200	200	200

Table 4.14a Pınarbaşı: Complete list of identifications from the Early Neolithic (Site A) loci and the Late Neolithic infill of the curvilinear structure (Site B)

Locus	LN/CH	LN/CH	LN/CH	LN/CH	CHL	CHL	CHL	CHL
	BAC	BAC	BAM	BAM	BAD	BAI	BAJ	BAK
Sample	5	8	21	22	14	15	17	18
Pistacia	29	5	35	13	70	60	49	66
Amygdalus	105	25	82	135	81	91	61	87
Rosa		1		1	1			
Amygdalus/Rosa	1		2	2	1	2	5	3
Prunus	1							
Maloideae indet.		1					14	
Celtis	2		3	1	3	1	2	
Quercus					1			
Acer								
Juniperus								
Fabaceae indet.								
Capparidaceae								
Asteraceae indet.	1							
Artemisia	2							
Chenopodiaceae								
Tamarix			1					3
Clematis			1					
Fraxinus								2
Phragmites	1	1	3					
Rhamnus	5	2			1	12		
Indet.	53	23	73	48	42	34	69	39
Total	200	58	200	200	200	200	200	200

Table 4.14c Pınarbaşı: Complete list of identifications from the Late Neolithic/Chalcolithic deposits of Site B

Phase	Presence scores			% values		
	LN/Infill	LN	LN/CHL	LN/Infill	LN	LN/CHL
Pistacia	9	19	8	100	100	100
Amygdalus	9	19	8	100	100	100
Rosa	7	12	3	78	63	38
Prunus			1			13
Maloideae			2			25
Celtis	8	14	6	89	74	75
Quercus		1	1		5	13
Acer		1			5	
Juniperus	1	1		11	5	
Fabaceae	1	3		11	16	
Capparis	1	2		11	11	
Asteraceae	1	3	1	11	16	13
Tamarix	7	12	2	78	63	25
Clematis	1	2	1	11	11	13
Fraxinus	6	7	1	67	37	13
Phragmites	1	2	3	11	11	38
Rhamnus	1		4	11		50
				100		
Total	9	20	8	100	100	100

Table 4.15 Pınarbaşı: Presence scores of all taxa occurring in Neolithic and Chalcolithic contexts from Site B

Phase	Total fragment counts				Percentage fragment counts			
	EN	Infill/LN	LN	LN/CH	EN	Infill/LN	LN	LN/CHL
Pistacia	1	284	1071	327	1.64	19.68	35.57	30.36
Amygdalus	20	1011	1706	667	32.79	70.06	56.66	61.93
Rosa	5	24	25	3	8.20	1.66	0.83	0.28
Amygdalus/Rosa	26	47	94	16	42.62	3.26	3.12	1.49
Prunus	3			1	4.92			0.09
Maloideae				15				1.39
Celtis		43	61	12		2.98	2.03	1.11
Quercus			1	1			0.03	0.09
Acer			1				0.03	
Juniperus		1	2			0.07	0.07	
Fabaceae	1	1	3		1.64	0.07	0.10	
Capparis		1	2			0.07	0.07	
Asteraceae				1				0.09
Artemisia	3	1	4	2	4.92	0.07	0.13	0.19
Chenopodiaceae	1				1.64			
Tamarix		12	24	4		0.83	0.80	0.37
Clematis		1	6	1		0.07	0.20	0.09
Fraxinus		15	9	2		1.04	0.30	0.19
Phragmites	1	1	2	5	1.64	0.07	0.07	0.46
Rhamnus		1		20		0.07		1.86
Indet.	78	357	789	381				
Total	139	1800	3800	1458				
Total (-Indet.)	61	1443	3011	1077	100	100	100	100

Table 4.16 Pınarbaşı: Summary absolute and percentage fragment counts for Site A & Site B

	Phase	Locus	Litres	Sample no	TotalW	STDW	Total (-Indet)	Indet.	Fr/Pr Index	SW Index
1	EN	ABJ	30	31	0.28	0.01	54	46	0.85	0.50
2	EN	ABU	30	36	0.19	0.01	7	32	4.57	0.44
3	Infill/LN	BBH	18	116.2	21.88	1.22	144	56	0.39	0.44
4	Infill/LN	BBH	18	118.2	126.84	7.05	171	29	0.17	0.45
5	Infill/LN	BBH	19	119.3	27.96	1.47	150	50	0.33	0.56
6	Infill/LN	BBH	20	122.2	36.11	1.81	178	22	0.12	0.36
7	Infill/LN	BBA	120	38	111.18	0.93	175	25	0.14	0.37
8	Infill/LN	BAZ	10	37	11.13	1.11	162	38	0.23	0.47
9	Infill/LN	BAX	76	34	74.24	0.98	155	45	0.29	0.32
10	Infill/LN	BAW	20	30	50.09	2.50	160	40	0.25	0.28
11	Infill/LN	BAT	40	32	62.06	1.55	148	52	0.35	0.35
12	LN	BBK	20	129.1	19.52	0.98	128	72	0.56	0.42
13	LN	BBJ	20	128.1	169.46	8.47	149	51	0.34	0.45
14	LN	BBI	20	114.1	17.33	0.87	157	43	0.27	0.43
15	LN	BBI	20	120.2	39.13	1.96	159	41	0.26	0.39
16	LN	BBG	20	113.1	185.2	9.26	177	23	0.13	0.44
17	LN	BBG	19	126.2	81.56	4.29	163	37	0.23	0.59
18	LN	BBG	20	127.2	51.41	2.57	154	46	0.30	0.29
19	LN	BBE	17	109.1	52.93	3.11	154	46	0.30	0.21
20	LN	BBE	10	110.3	14.14	1.41	157	43	0.27	0.33
21	LN	BBE	18	111.2	42.89	2.38	149	51	0.34	0.31
22	LN	BBE	18	112.2	212.63	11.81	160	40	0.25	0.48
23	LN	BBD	40	103	51.74	1.29	160	40	0.25	0.42
24	LN	BBD	22	106	84.24	3.83	167	33	0.20	0.34
25	LN	BBD	20	107	131.23	6.56	182	18	0.10	0.38
26	LN	BBD	20	108	99.78	4.99	159	41	0.26	0.43
27	LN	BBC	25	101	80.68	3.23	165	35	0.21	0.42
28	LN	BAY	36	33	108.48	3.01	161	39	0.24	0.34
29	LN	BAV	36	27	12.08	0.34	146	54	0.37	0.37
30	LN	BAV	36	28	18.02	0.50	164	36	0.22	0.45
31	CHL	BAK	60	18	80.96	0.73	161	39	0.24	0.39
32	CHL	BAJ	40	17	27.27	0.68	131	69	0.53	0.50
33	CHL	BAI	40	15	246.05	6.15	166	34	0.20	0.42
34	CHL	BAD	20	14	37.16	1.86	158	42	0.27	0.39
35	LN/CH	BAM	40	21	32.05	0.80	127	73	0.57	0.42
36	LN/CH	BAM	38	22	66.6	1.75	152	48	0.32	0.19
37	LN/CH	BAC	20	5	42.26	2.11	147	53	0.36	0.40
38	LN/CH	BAC	20	8	24.44	1.22	35	23	0.66	0.38
					Mean	2.76			0.42	0.40
					Median	1.78			0.27	0.41

Table 4.17 Pınarbaşı: Complete listing of details on all sampled context from Site A and Site B, including litres of soil floated, total float weight, numbers of ID and indet. fragments, and density (STDW), fragmentation/preservation (Fr/Pr) and diversity values

Predicted habitat type	Vegetation catchment	Constituent woody taxa
river banks and alluvial plain	riverine woodland	willow, poplar (Salicaceae) elm (<i>Ulmus</i>), ash (<i>Fraxinus</i>), tamarisk (<i>Tamarix</i>), woody climbers (<i>Clematis</i>), vine (<i>Vitis</i>), alder (<i>Alnus</i>), plane (<i>Platanus</i>), chaste tree (<i>Vitex</i>)
well-drained alluvial margins	riverine woodland	elm (<i>Ulmus</i>), plane (<i>Platanus</i>)
saline exposures, ephemeral streams	halophytes	chenopods (Chenopodiaceae), chaste tree (<i>Vitex</i>), caper (<i>Capparis</i>)
submerged surfaces	marsh vegetation, halophytes (shallow waters)	alder (<i>Alnus</i>), reed (<i>Phragmites</i>), tamarisk (<i>Tamarix</i>), poplar (Salicaceae)
springs	hygrophilous vegetation	fig (<i>Ficus</i>), ash (<i>Fraxinus</i>)
upland slopes	montane forest, dense oak woodland	black pine (<i>Pinus cf. nigra</i>), juniper (<i>Juniperus</i>), deciduous oak (<i>Quercus</i>), maple (<i>Acer</i>), legumes (Fabaceae), plums and cherries (<i>Prunus</i>), rosebush (<i>Rosa</i>)
lower upland zone, foothills	oak park-woodland	deciduous oak (<i>Quercus</i>), pears and hawthorns (Maloideae), cherries and plums (<i>Prunus</i>), almond (<i>Amygdalus</i>), hackberry (<i>Celtis</i>), terebinth (<i>Pistacia</i>), juniper (<i>Juniperus</i>), buckthorn (<i>Rhamnus</i>), rosebush (<i>Rosa</i>), caper (<i>Capparis</i>)
fringes of alluvial plains, limestone/chalk and rocky outcrops, edges of foothill zone	woodland steppe	almond (<i>Amygdalus</i>), terebinth (<i>Pistacia</i>), hackberry (<i>Celtis</i>), hawthorn (Maloideae), buckthorns (<i>Rhamnus</i>), wormwood (<i>Artemisia</i> , Asteraceae), caper (<i>Capparis</i>), labiates (Lamiaceae)
arid plain interiors, marl	treeless steppe	wormwood (<i>Artemisia</i> , Asteraceae), chenopods (Chenopodiaceae), labiates (Lamiaceae) alternating with grassland

Table 5.1 Summary of landforms/habitats, vegetation catchments and reconstructed woodland composition based on ecological analogues and taxon presence in the charcoal assemblages

	Climate and landforms	Charcoal evidence
Early phases (pre-level XII c. 8400-8000 B.P.)	<p>low-lying alluvial delta, extensive submerged surfaces and marshes</p> <p>climatic optimum, wet conditions</p>	<p>riverine taxa (Salicaceae, <i>Ulmus</i>) are dominant alongside hackberry (<i>Celtis</i>); very low presence and abundance values of deciduous oak (<i>Quercus</i>);</p>
Late phases (post-8000 B.P.)	<p>continuing deposition of the alluvial fan, creation of raised surfaces</p> <p>drier conditions</p>	<p>deciduous oak (<i>Quercus</i>) is dominant; increased presence and abundance of juniper (<i>Juniperus</i>) and light demanding shrubs (Fabaceae, <i>Rosa</i>, Asteraceae, Lamiaceae); a wide array of riverine, shrub and fruit taxa present</p>

Table 5.2 Summary of the evidence on local environmental conditions at the time of the Neolithic occupation at Çatalhöyük, the prevailing climate patterns and the corresponding charcoal evidence

	Early levels (pre-level XII)	Late levels
Midden/dump contexts	<p>Low charcoal densities. Domestic refuse deposits dominated by a narrow range of taxa. Lime burning-related deposits instead display a high taxonomic diversity. Overall, little deadwood present</p> <p>Oak (<i>Quercus</i>) presence and abundance values very low. Dominant taxa: riverine (almost exclusively Salicaceae, <i>Ulmus</i>), hackberry (<i>Celtis</i>). Overall, little deadwood present</p>	<p>Much higher charcoal densities compared to the early contexts. Relatively high taxonomic diversity. Deadwood present.</p> <p>Dominant taxa: deciduous oak (<i>Quercus</i>) and riverine (mainly <i>Ulmus</i>, Salicaceae)</p>
Non midden/dump contexts	<p>External burning deposits (mainly lime burning) display a high taxonomic diversity despite their adverse taphonomic status.</p> <p>Oak (<i>Quercus</i>) presence and abundance values very low. Dominant taxa: riverine (almost exclusively Salicaceae, <i>Ulmus</i>), hackberry (<i>Celtis</i>).</p>	<p>Deposits associated with roofed spaces ("stabling", building 1 burning levels, building infills) and "open fires" display higher concentrations of oak charcoal compared to other contexts which, although still dominated by oak, display higher taxonomic diversity. Dominant taxa: deciduous oak (<i>Quercus</i>) and riverine (mainly <i>Ulmus</i>, Salicaceae)</p>

Table 5.3 Summary of the available data on sample composition, charcoal density and taxonomic diversity compared between early and late levels

	Winter (wet season)	Late spring-early autumn (dry season)
Late levels	Consumption of large quantities of various kinds of firewood (storage); minimal collection activities due to reduced accessibility of woodlands; some clearance of riverine vegetation at the beginning of spring	(early spring floods: timber floating down the Çarşamba river) Low firewood consumption (including timber preparation waste); intensive gathering activities in combination with hunting, fruit gathering, herding and cultivation; firewood storage
pre-level XII	The higher diversity of lime burning-related contexts may indicate a seasonal component in firewood consumption or (more likely) differences in hearth function (indiscriminate fuel consumption for lime plaster production)	

8,400-8,000 B.P.	post-8,000 B.P.
Concentration of firewood gathering activities in riverside habitats; widespread use of dung fuel; hackberry wood (<i>Celtis</i>) the only major, non-riverine component	Expansion of firewood gathering activities in a wide range of woodland catchments, including oak forests; tight scheduling; firewood storage; reduced importance of dung fuel compared to early phases (as can be assessed from higher charcoal densities); collection of a broader variety of riverine taxa

Table 5.4 Summary of predicted/modelled seasonal (top) and temporal (bottom) differences in fuel consumption at Çatalhöyük during the Neolithic

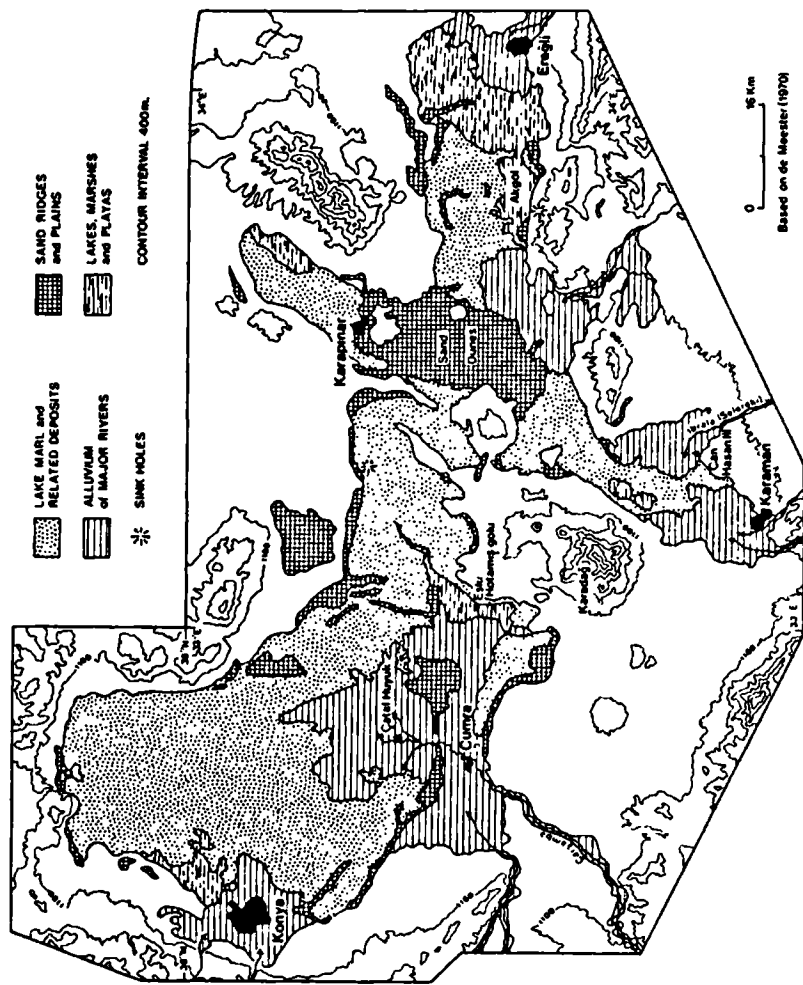


Fig. 1.1 Map of the Konya Basin indicating the location of major Neolithic settlements and present-day distribution of landforms (after Roberts 1982)

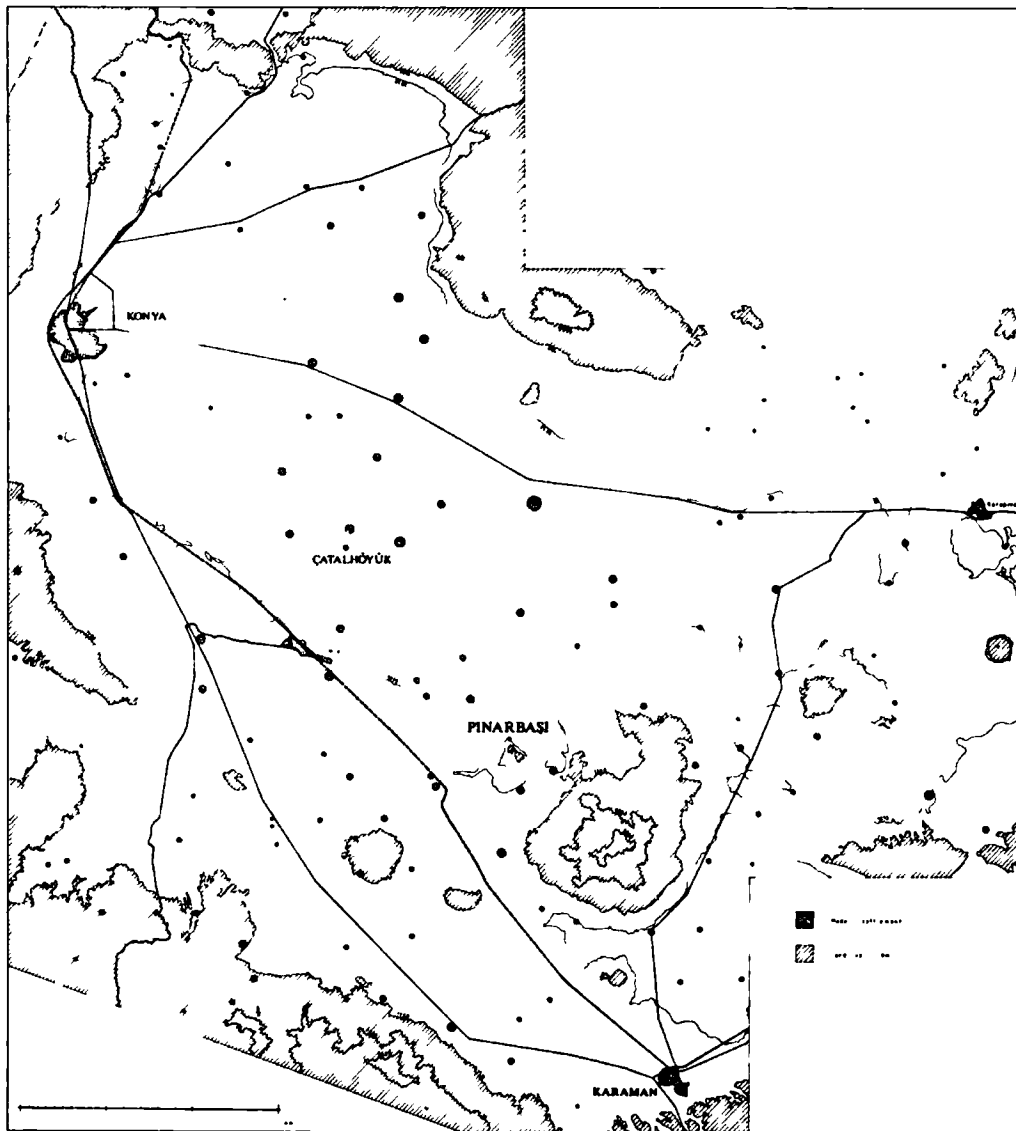


Fig. 1.2 Map of the Konya plain showing the location of Pınarbaşı (after Watkins 1996)

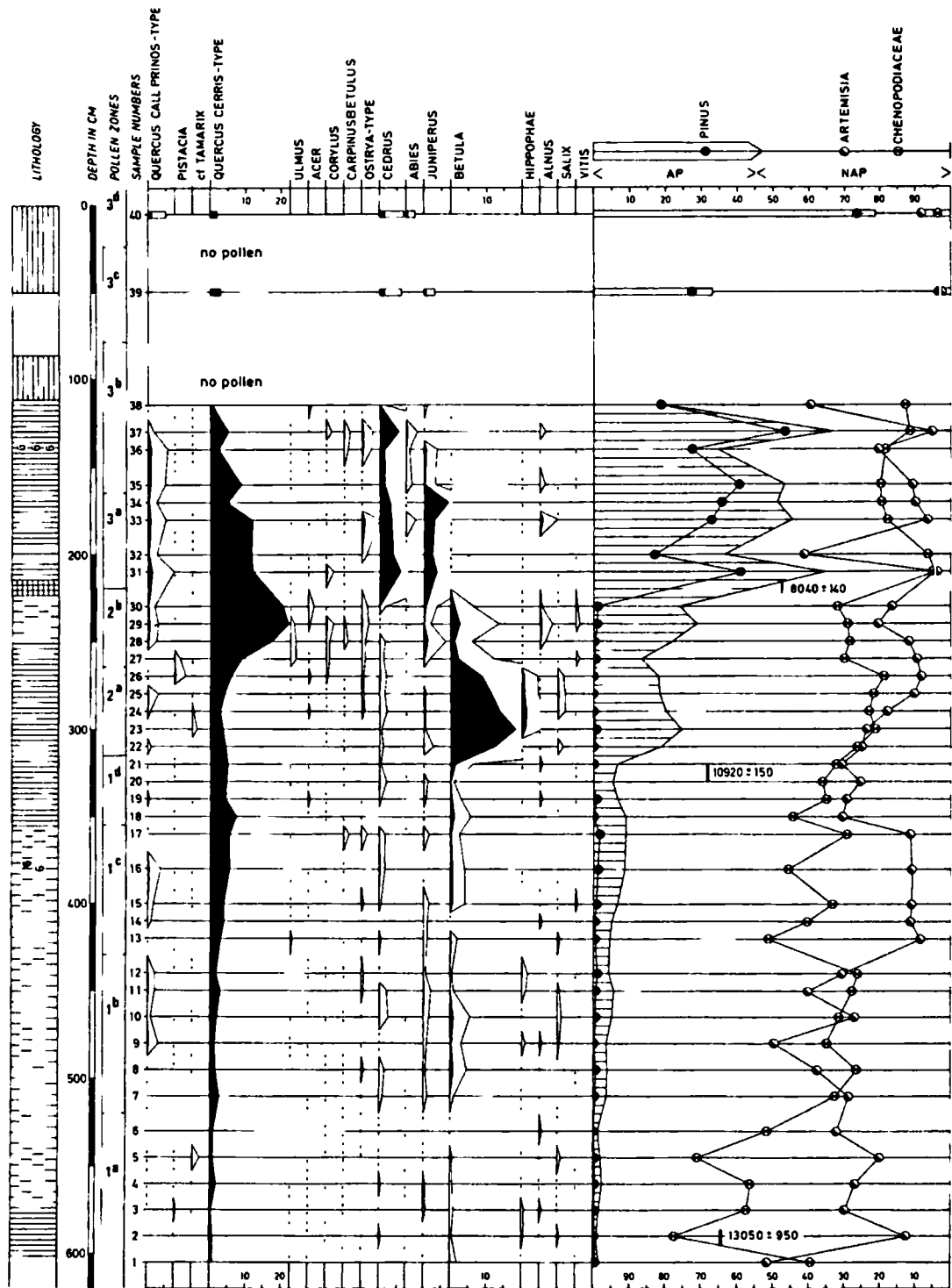


Fig. 1.3 The pollen diagram from Akgöl (abridged, after van Zeist and Bottema 1991)

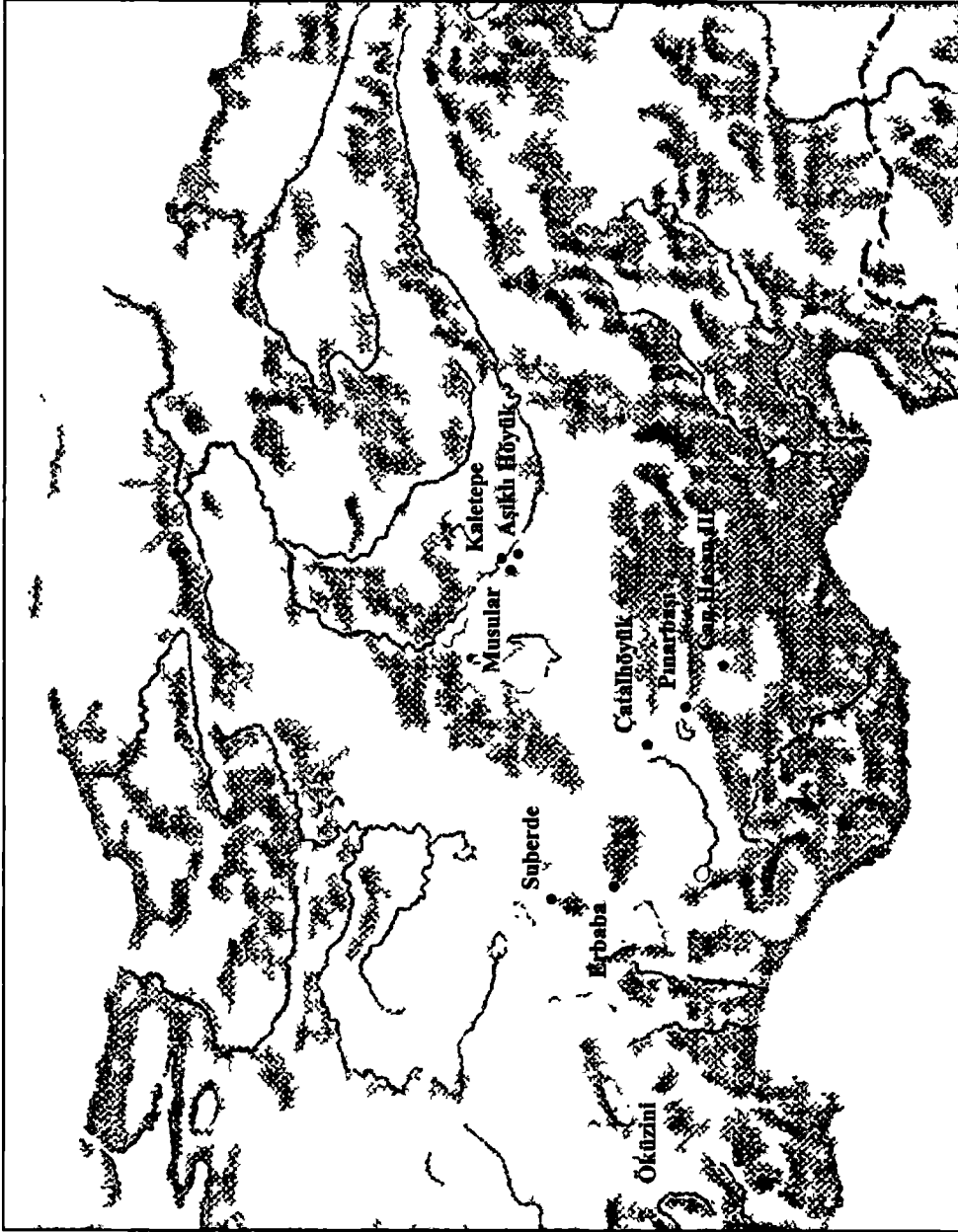


Fig. 1.4 Map showing the location of the excavated Neolithic sites in Central Anatolia (also shown are Öküzini, a major Epipalaeolithic site on the Antalya coast and Kaletepe, the obsidian workshop in the vicinity of Aşık)

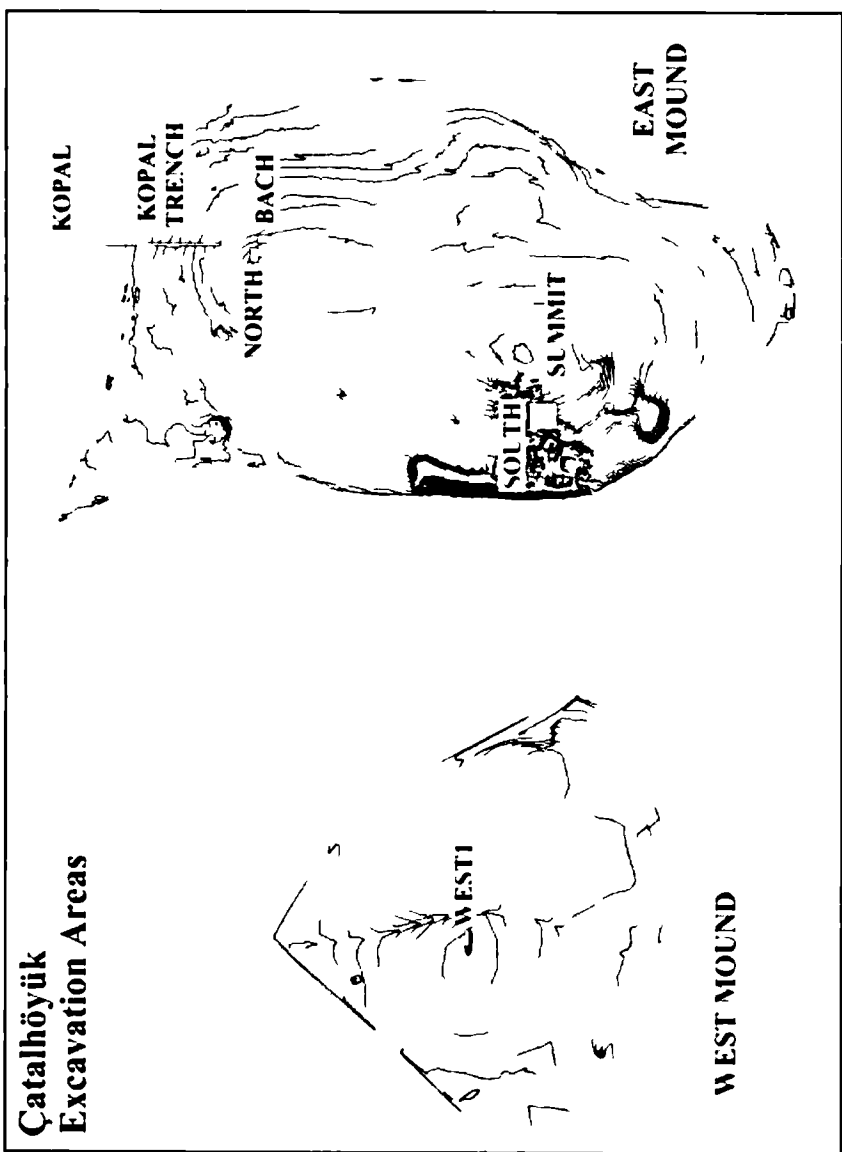


Fig. 1.5 Çatalhöyük: Map showing the location of all excavation areas

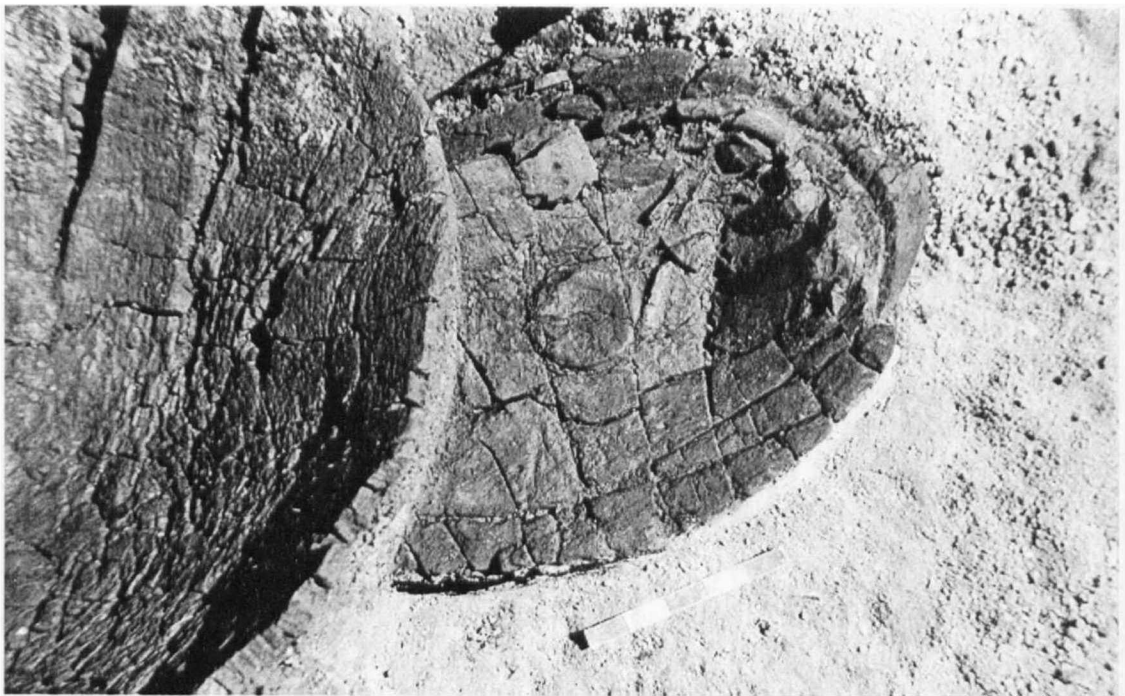
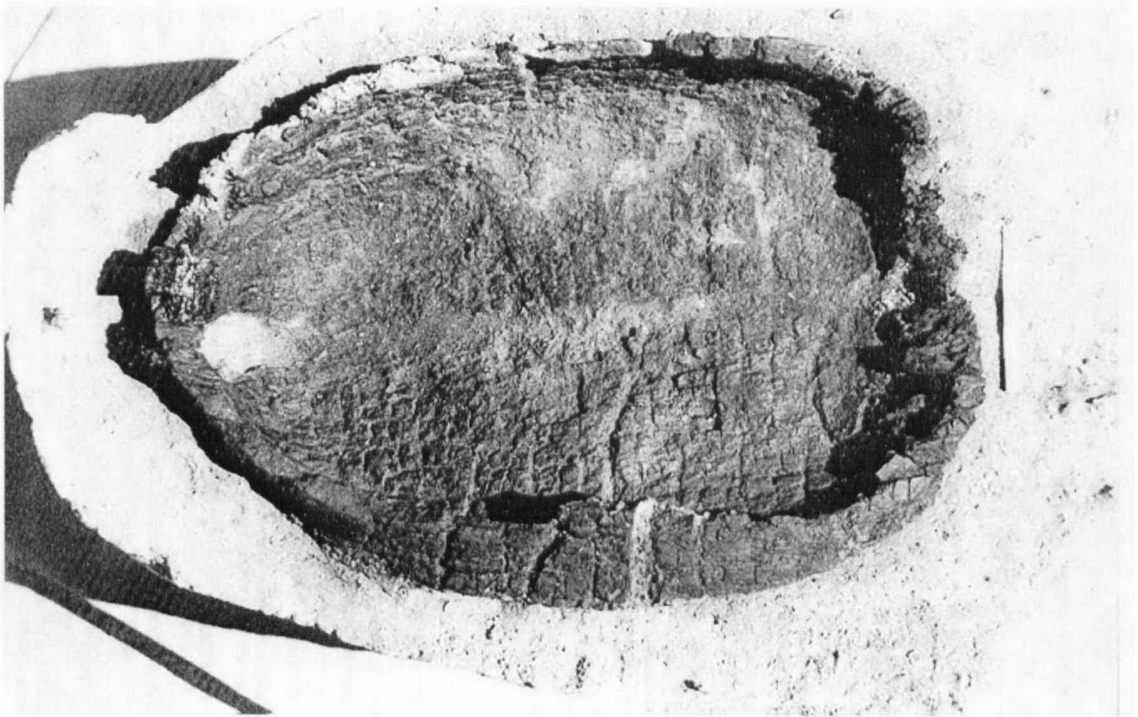


Fig. 1.6a Wooden vessels retrieved from the burnt buildings of level VI (after Mellaart 1967)

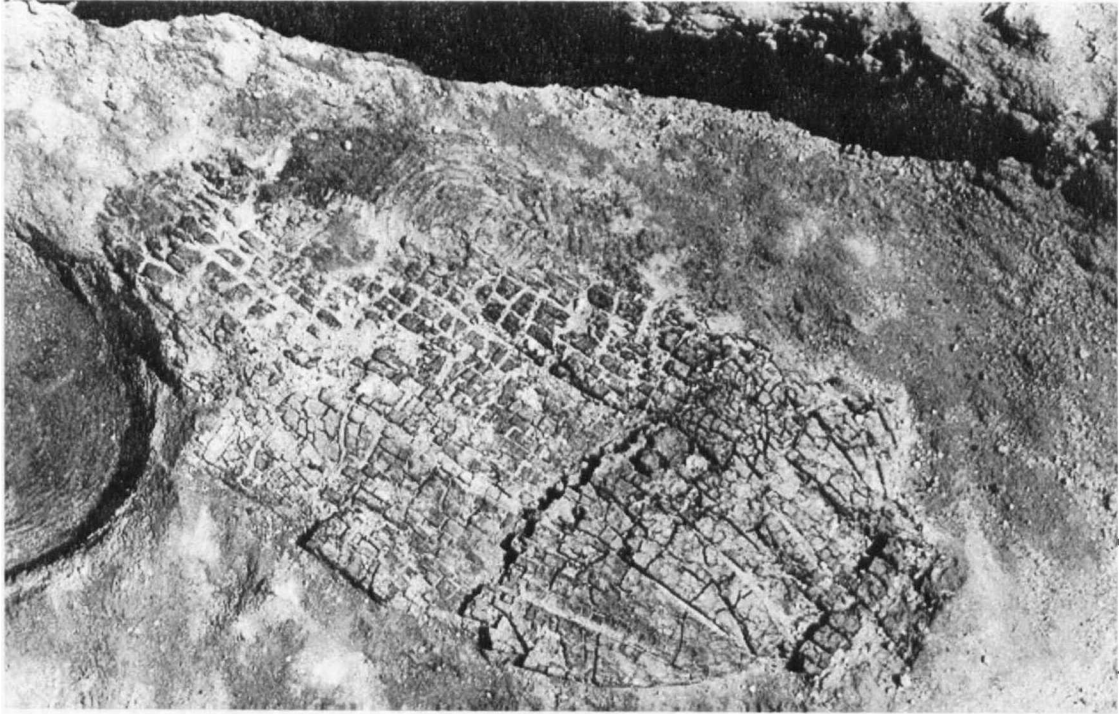


Fig. 1.6b Wooden vessels retrieved from the burnt buildings of level VI (after Mellaart 1967)



Fig. 1.7 Wall painting from the "hunting shrine" (A.III.1) of level III (after Mellaart 1967)



Fig. 1.8 Wall paintings from the “hunting shrine” (A.III.1) of level III (after Mellaart 1967)

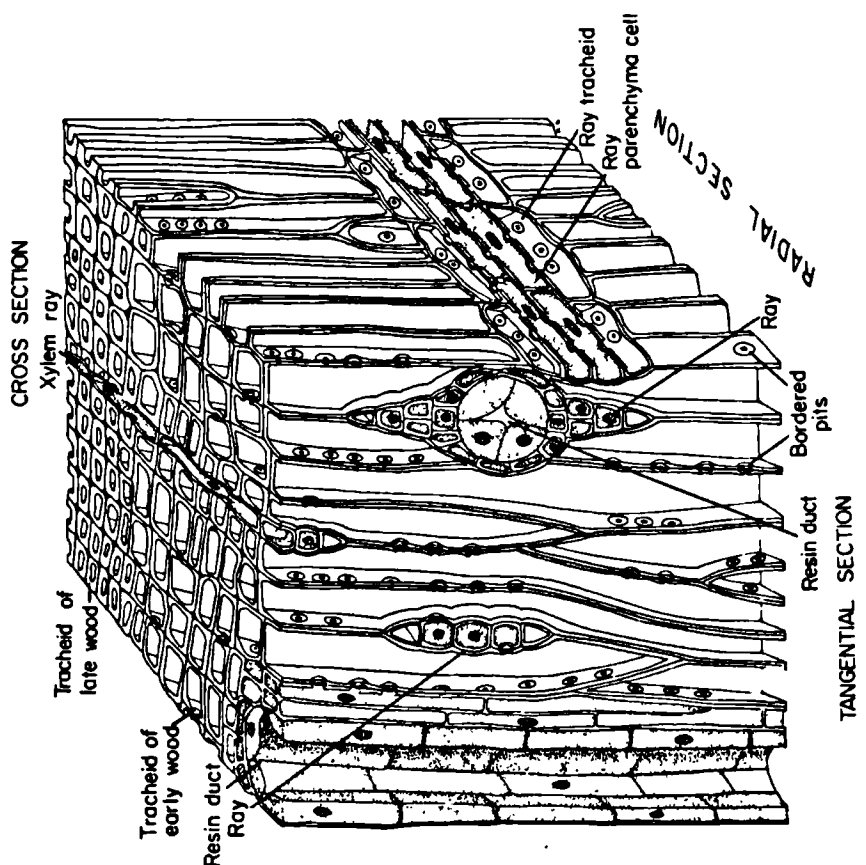
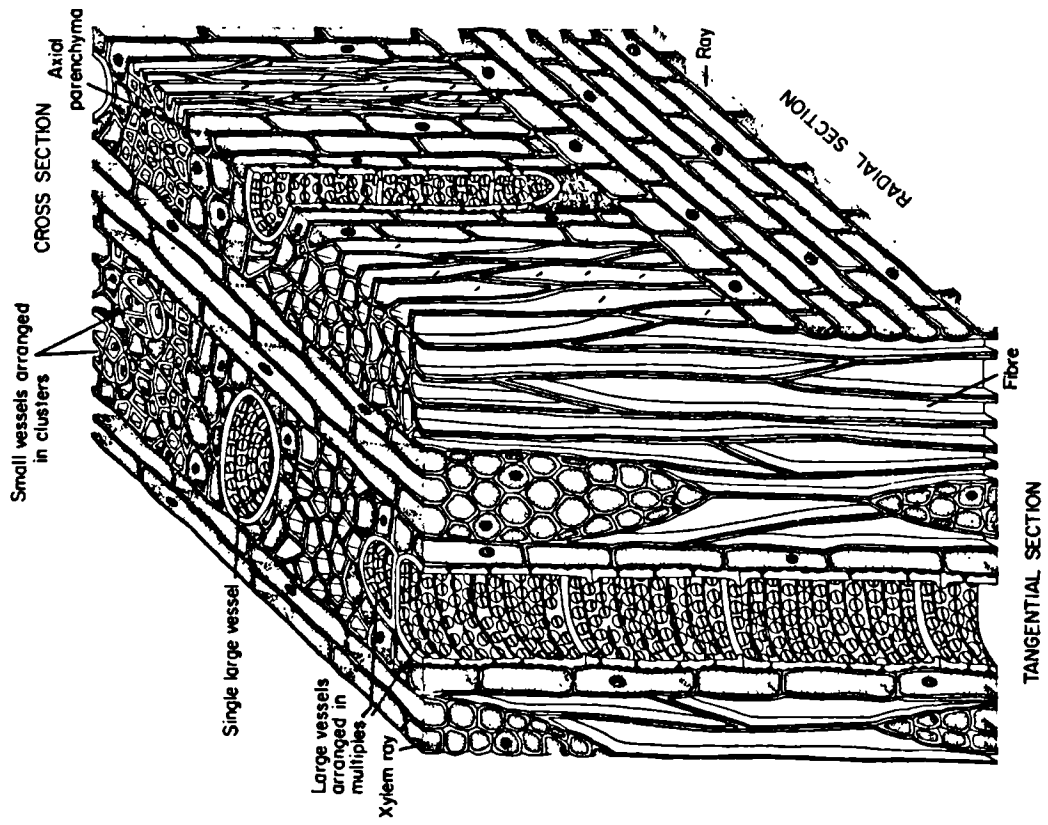


Fig. 2.1 Generalised drawings showing the diagnostic characters of conifers (left) and hardwoods (right) on the three anatomical planes (transverse or cross section, radial and tangential section; after Fahm 1990)

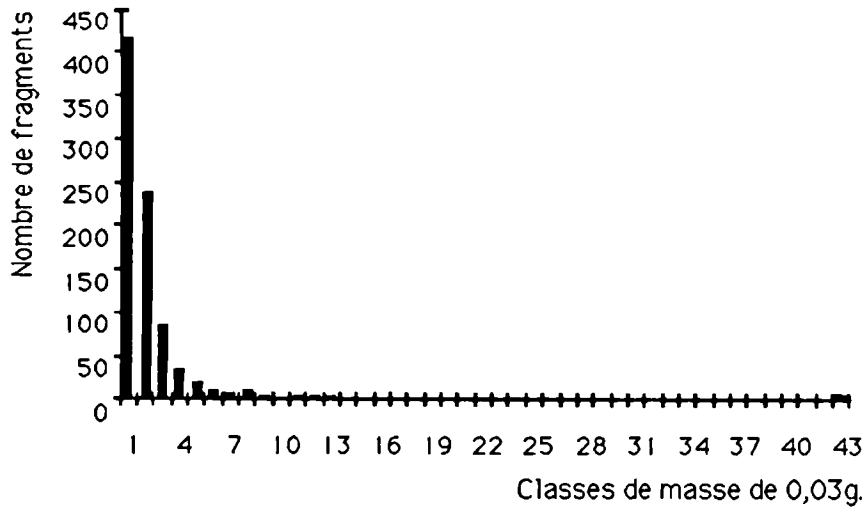
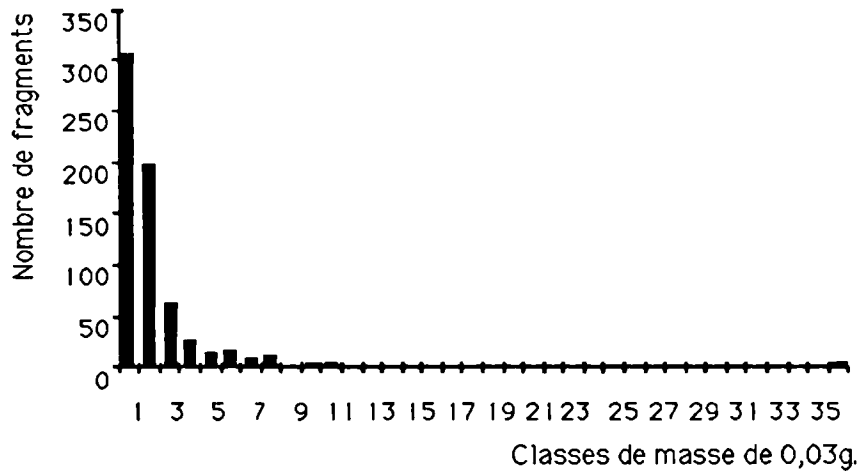


Fig. 2.2a Histograms showing the results of Lucie Chabal's quantitative analysis of charcoal fragmentation from the site of Le Marduel: a. For all taxa from level A (top) and level B (bottom) (after Chabal 1988)

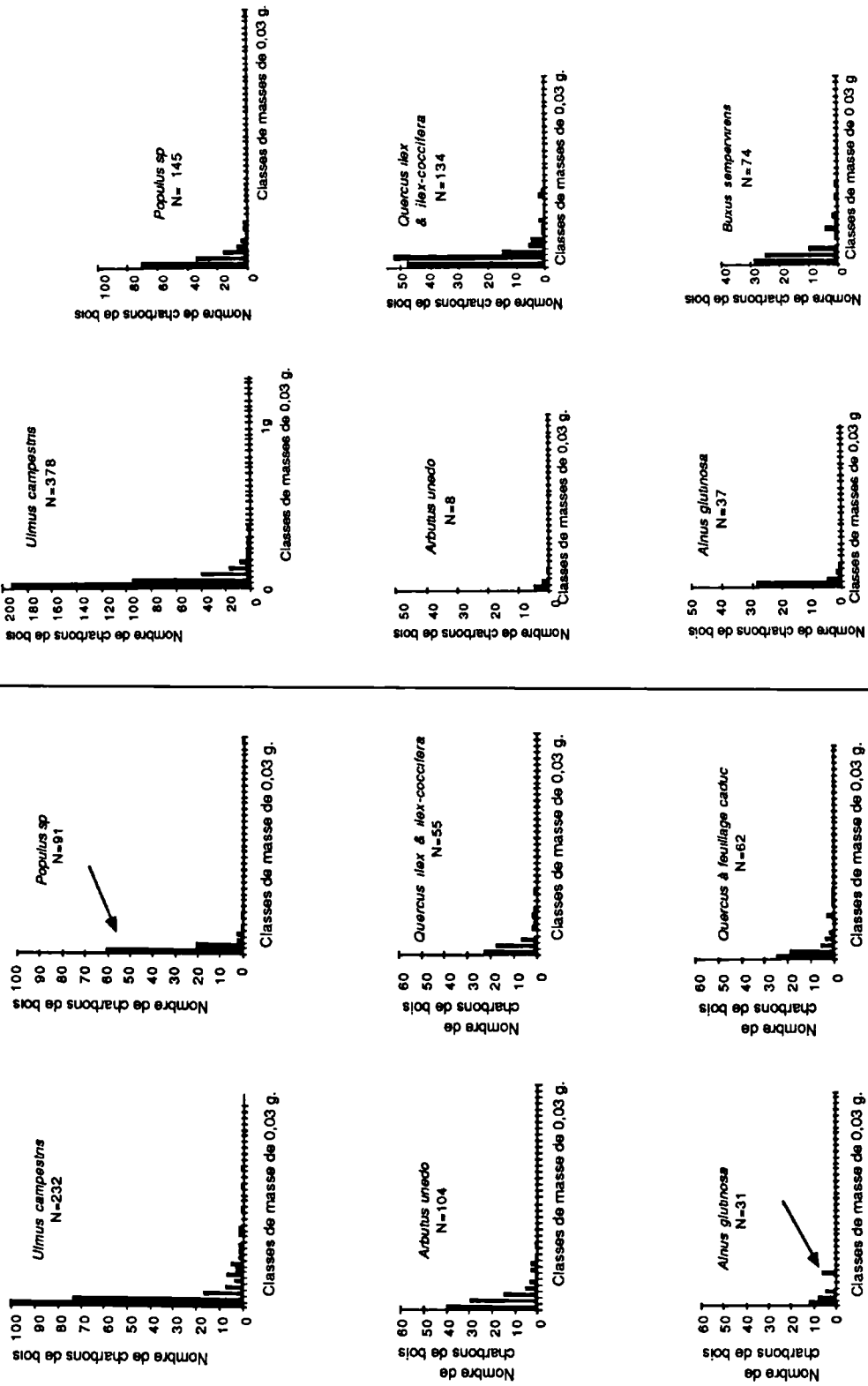


Fig. 2.2b Histograms showing the results of Lucie Chabal's quantitative analysis of charcoal fragmentation from the site of Le Marduel: b. Showing fragment distributions for the dominant taxa-level A (left), level B (right) (after Chabal 1988)

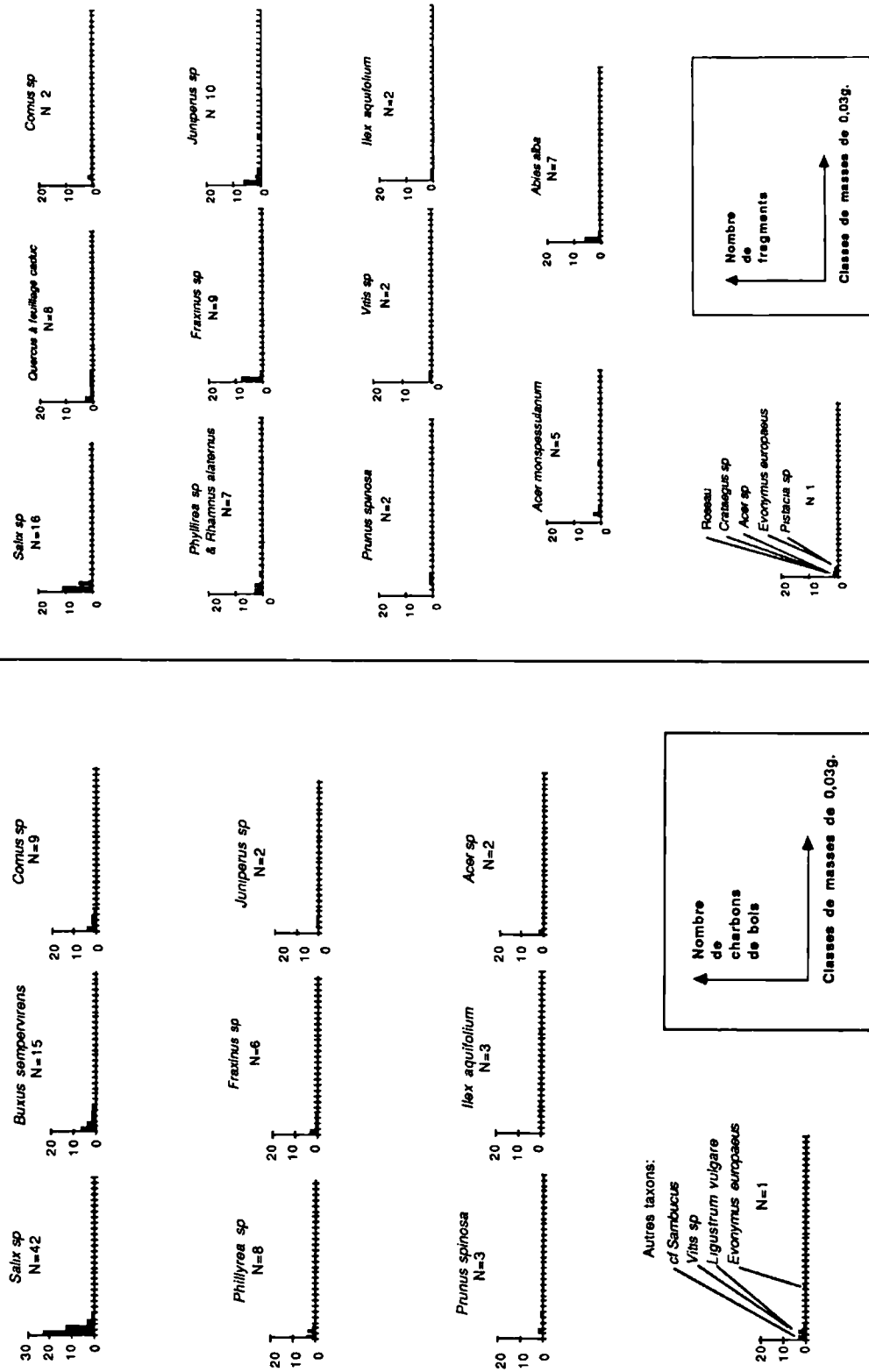


Fig. 2.2c Histograms showing the results of Lucie Chabal's quantitative analysis of charcoal fragmentation from the site of Le Marduel: c. Showing fragment distributions for minor taxa-level A (left), level B (right) (after Chabal 1988)

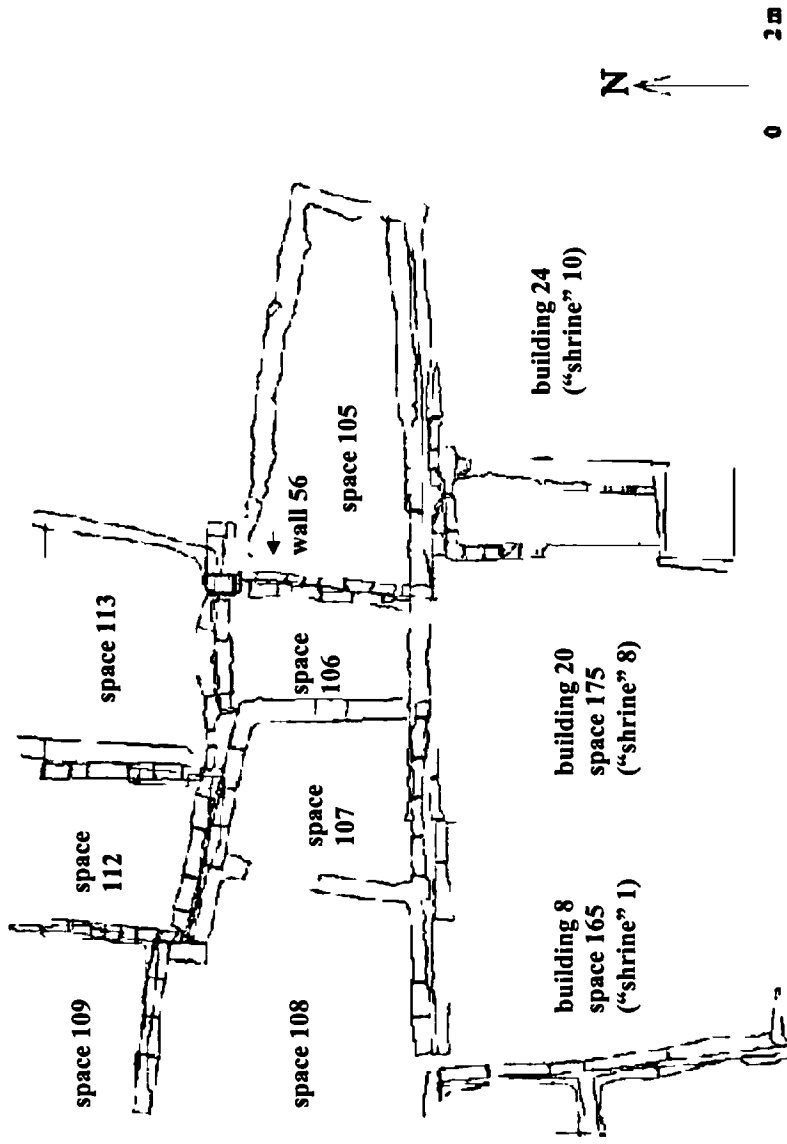


Fig. 4.1 Çatalhöyük-South Area: Plan of excavation level VII

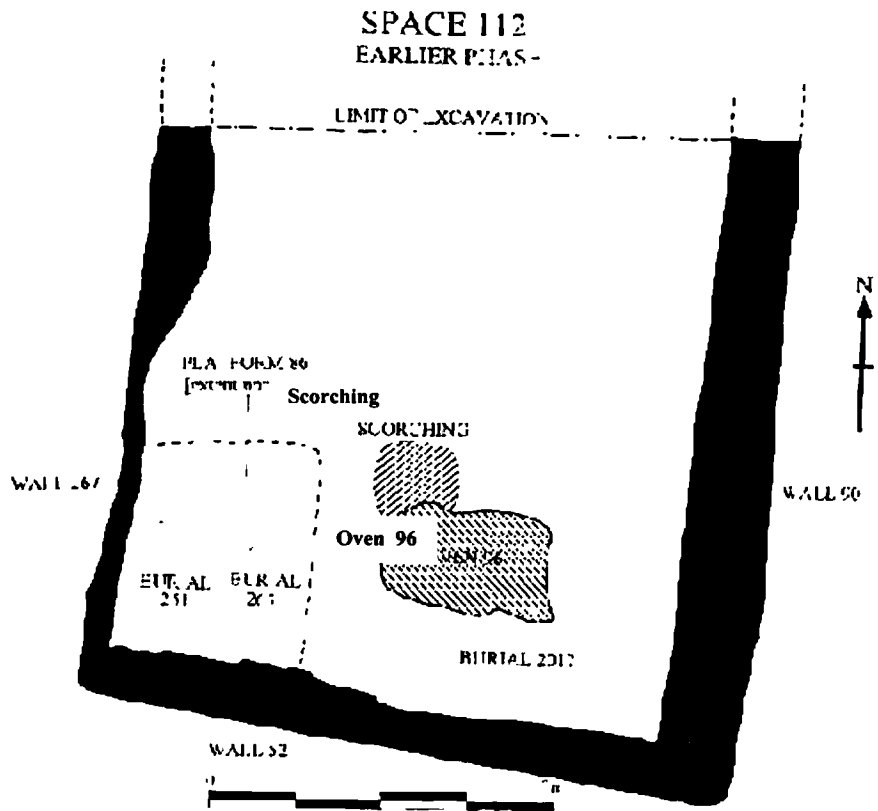


Fig. 4.2 Catalhöyük-South Area: Plan of space 112 showing location of sampled fire installation (“oven” 96)

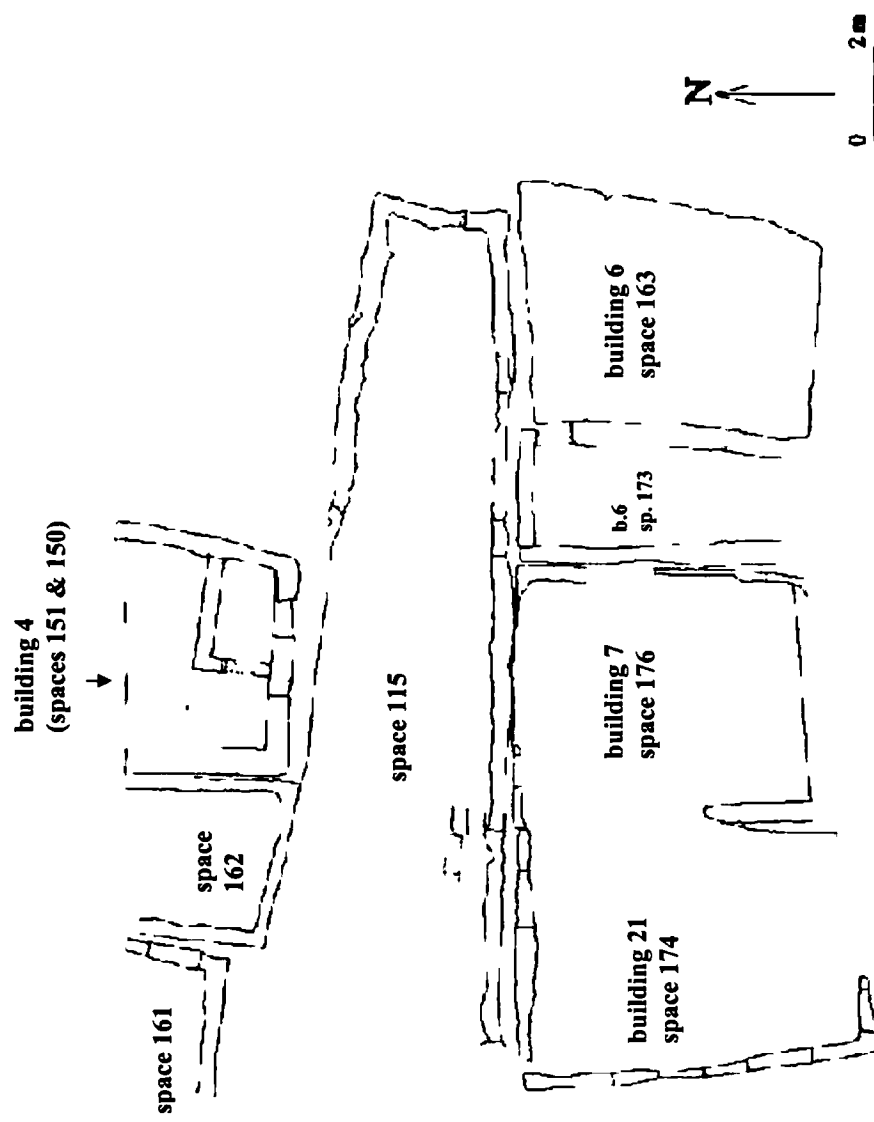


Fig. 4.3 Çatalhöyük-South Area: Plan of excavation level VIII

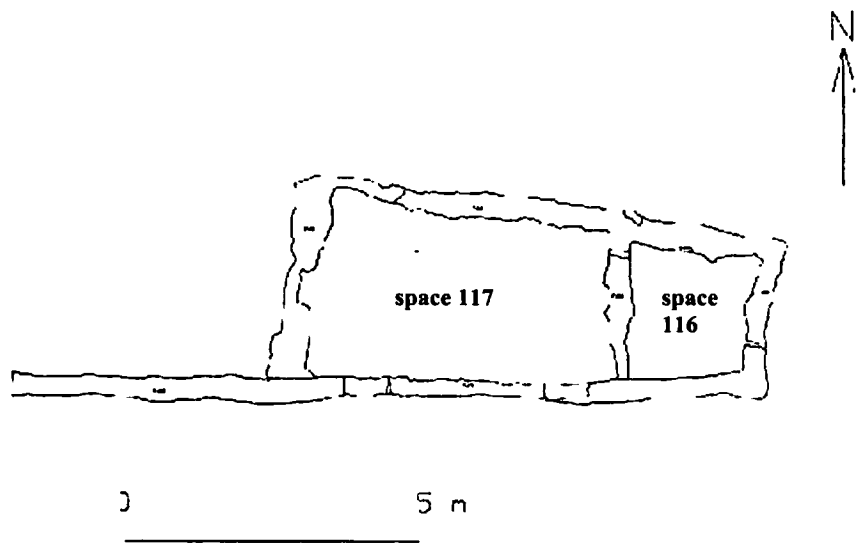


Fig. 4.4 Çatalhöyük-South Area: Plan of building 2

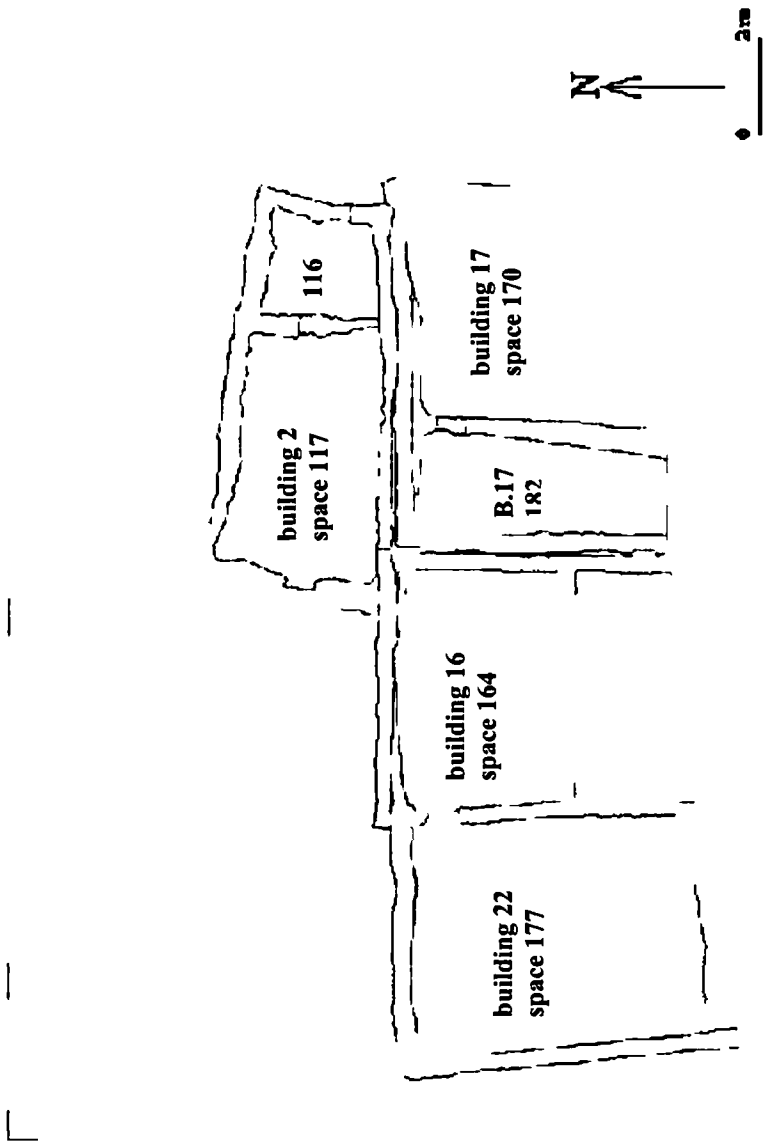


Fig. 4.5 Çatalhöyük-South Area: Plan of excavation level IX

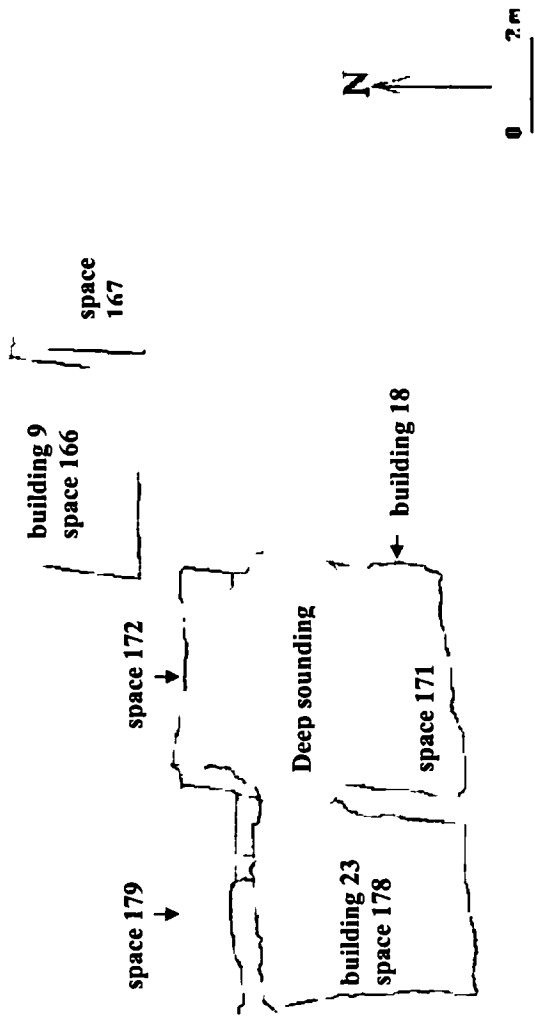


Fig. 4.6 Catalhöyük-South Area: Plan of excavation level X

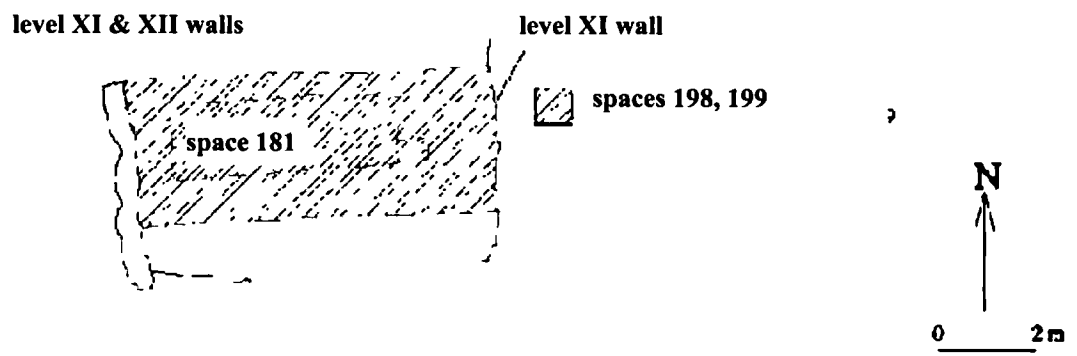


Fig. 4.7 Çatalhöyük-South Area: Plan of excavation levels XI, XII and pre-XII (space 181)

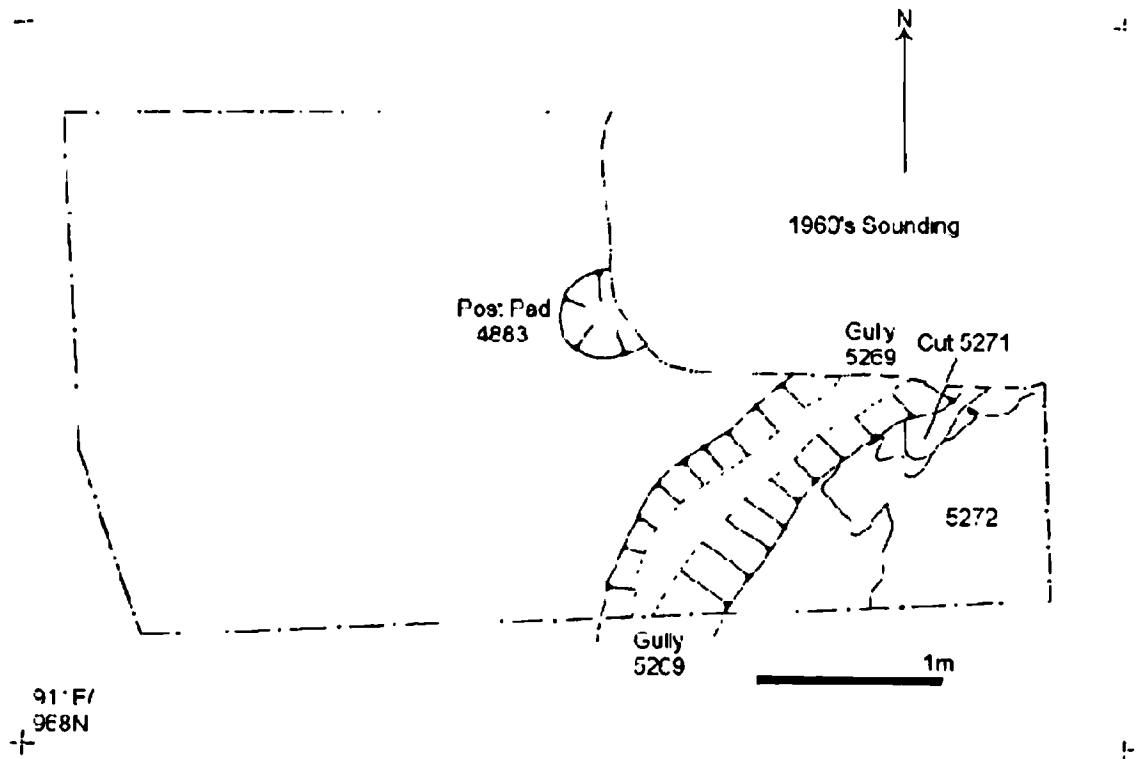


Fig. 4.8 Çatalhöyük-South Area: Location of gully feature and post-pad in space 181

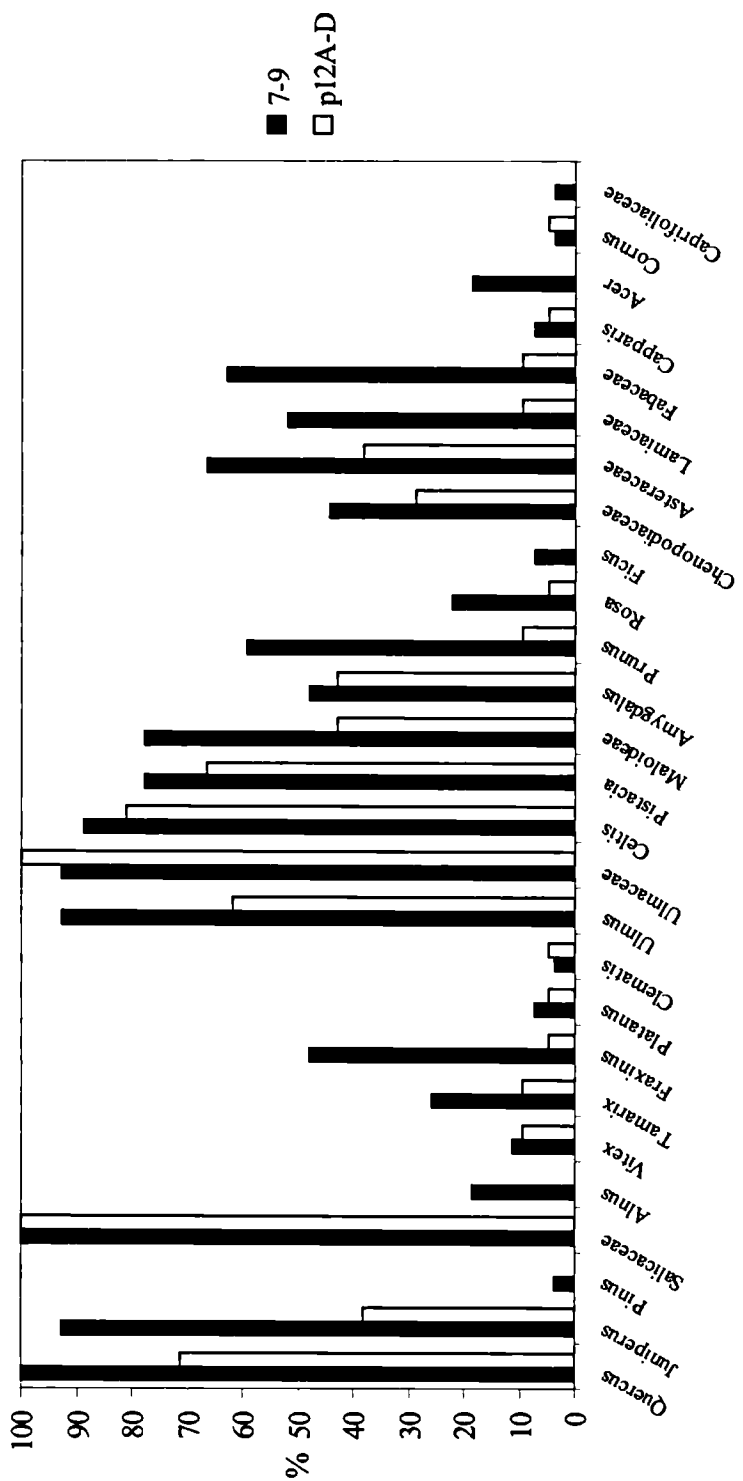


Fig. 4.9 Çatalhöyük-South Area: Bar chart showing percentage presence scores for all midden/dump units

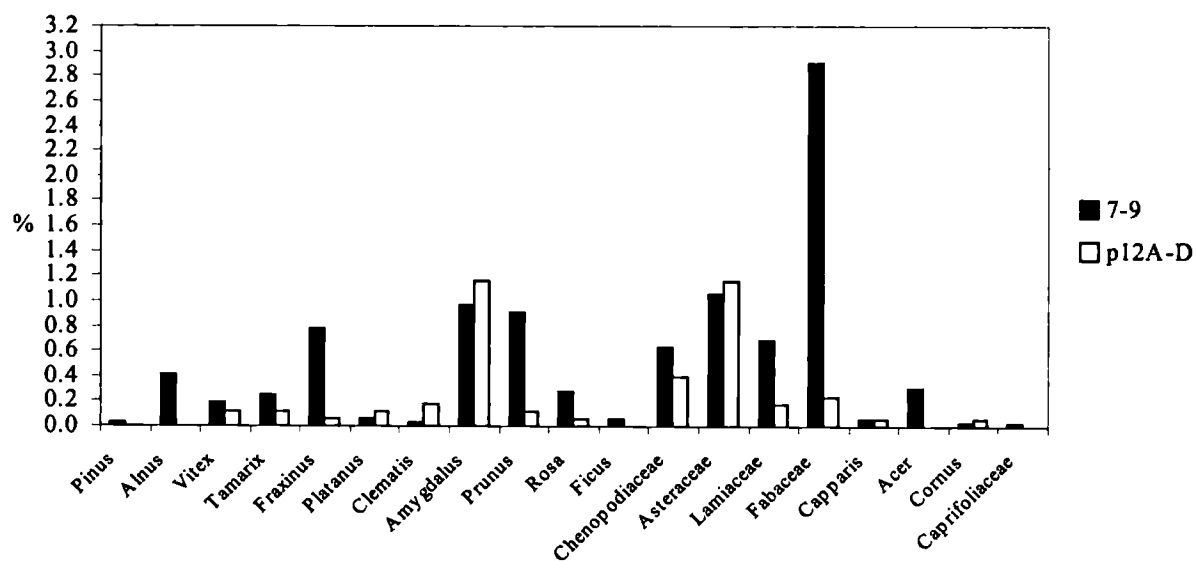
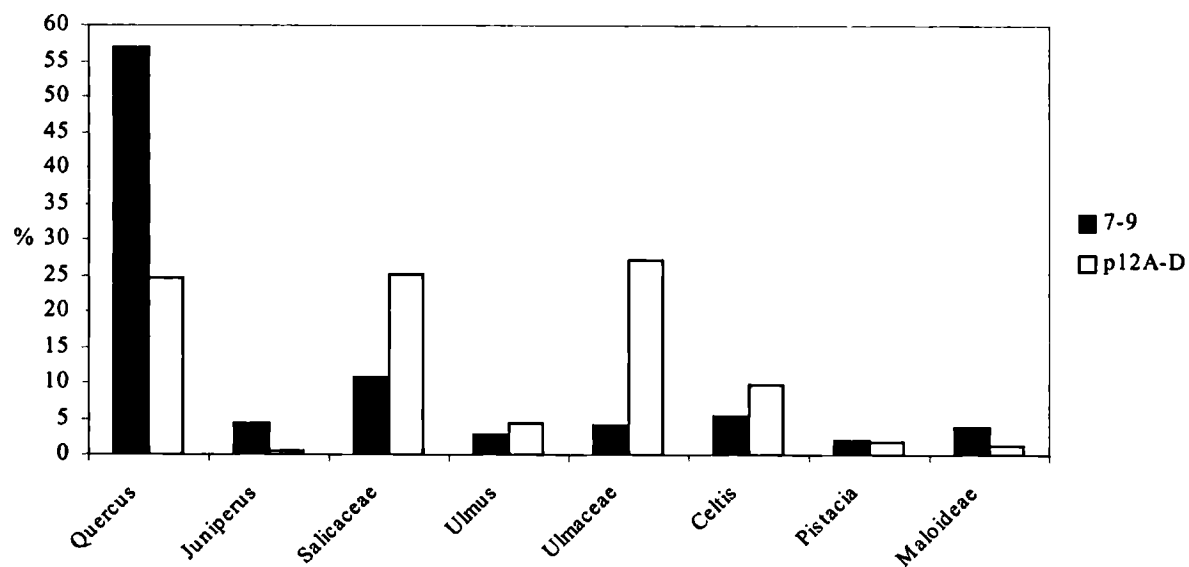


Fig. 4.10 Çatalhöyük-South Area: Percentage fragment counts for all midden/dump units (sums exclude indeterminate fragments)

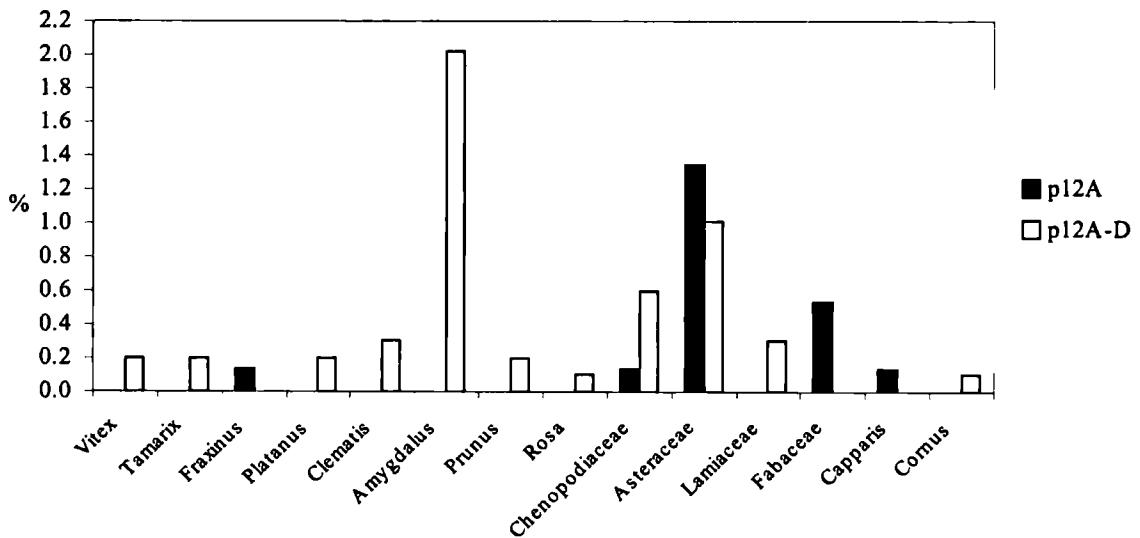
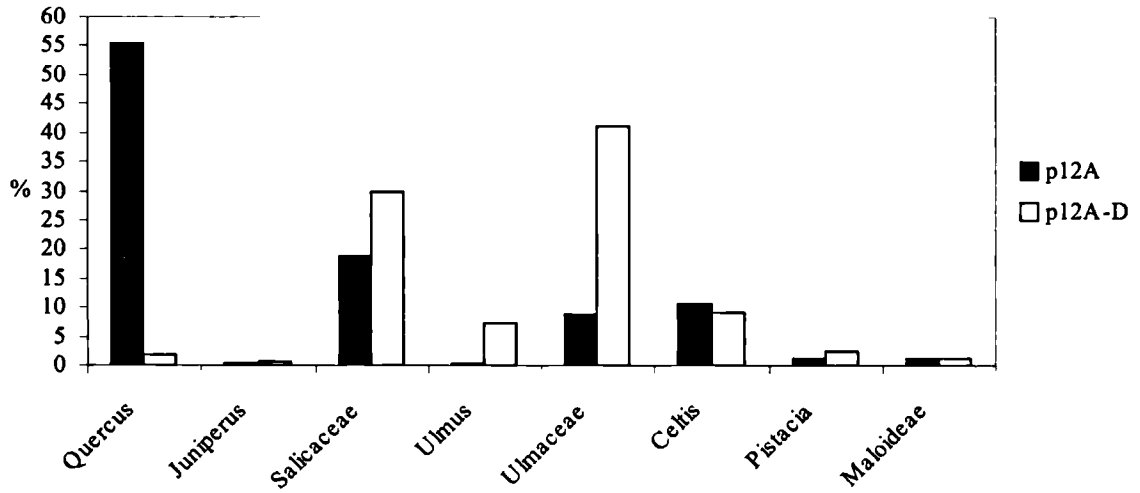


Fig. 4.11 Çatalhöyük-South Area: Percentage fragment counts for midden/dump units of excavation levels pre-XII phase A (-4844)/phase A (4846)-phase D

SPACE 198 / LEVEL XI, SPACE 199 / LEVEL XII, SPACE 181 / pre XII A - E
 BUILDING 18, LEVEL X

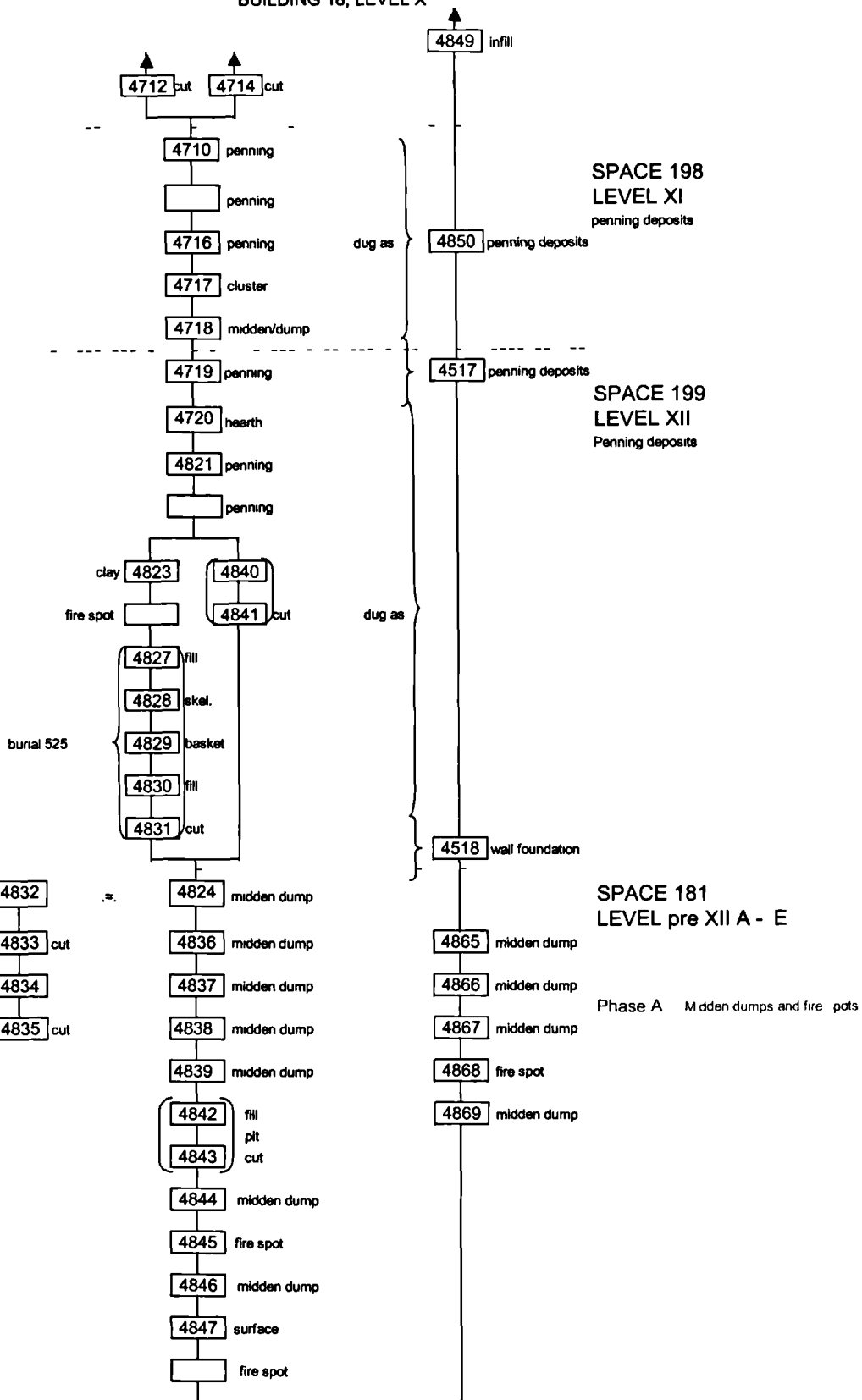


Fig. 4.12a Çatalhöyük-South Area: Harris matrix of spaces 198/199/181 (Phase A)

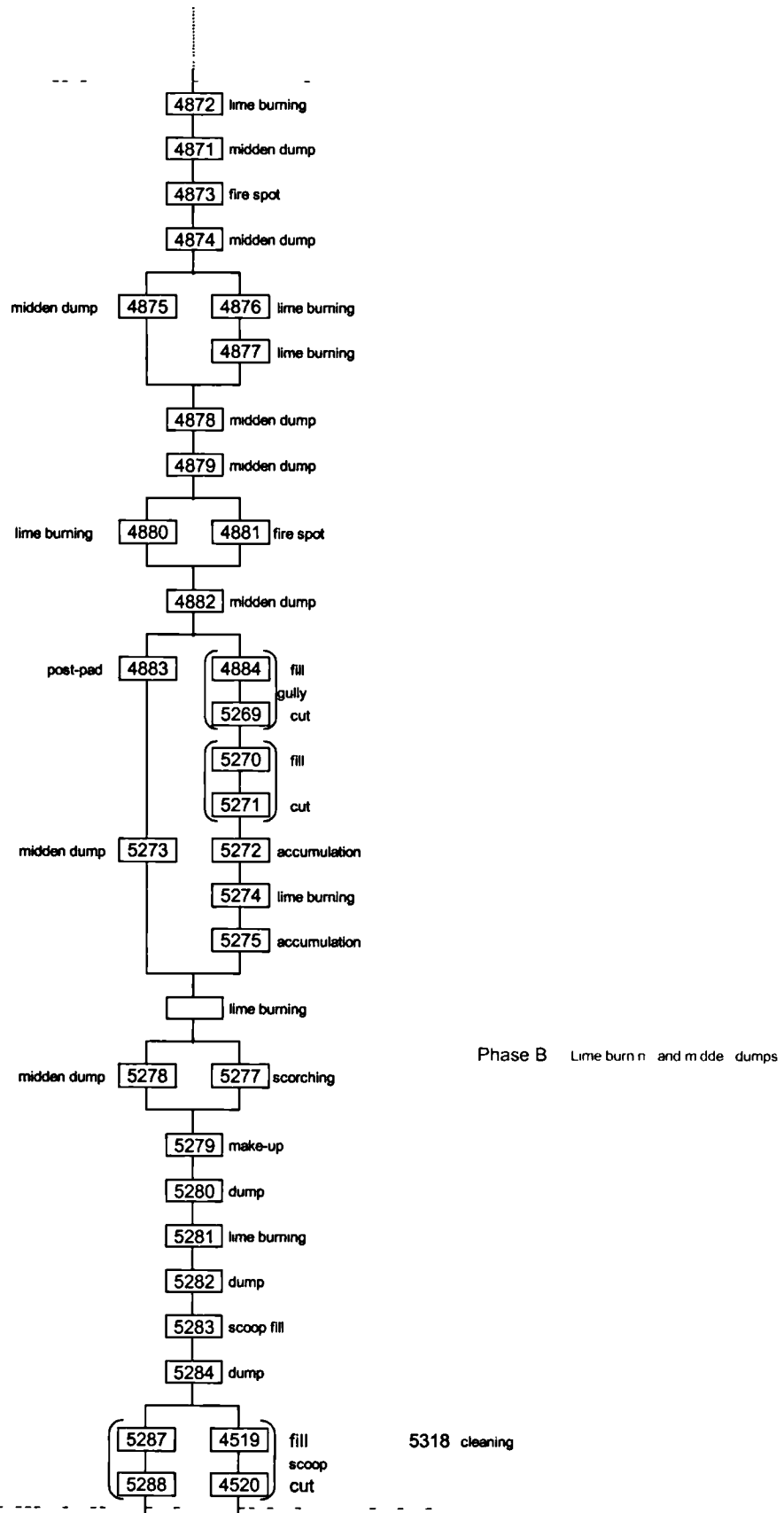


Fig. 4.12b Çatalhöyük-South Area: Harris matrix of space 181 (Phase B-continued)

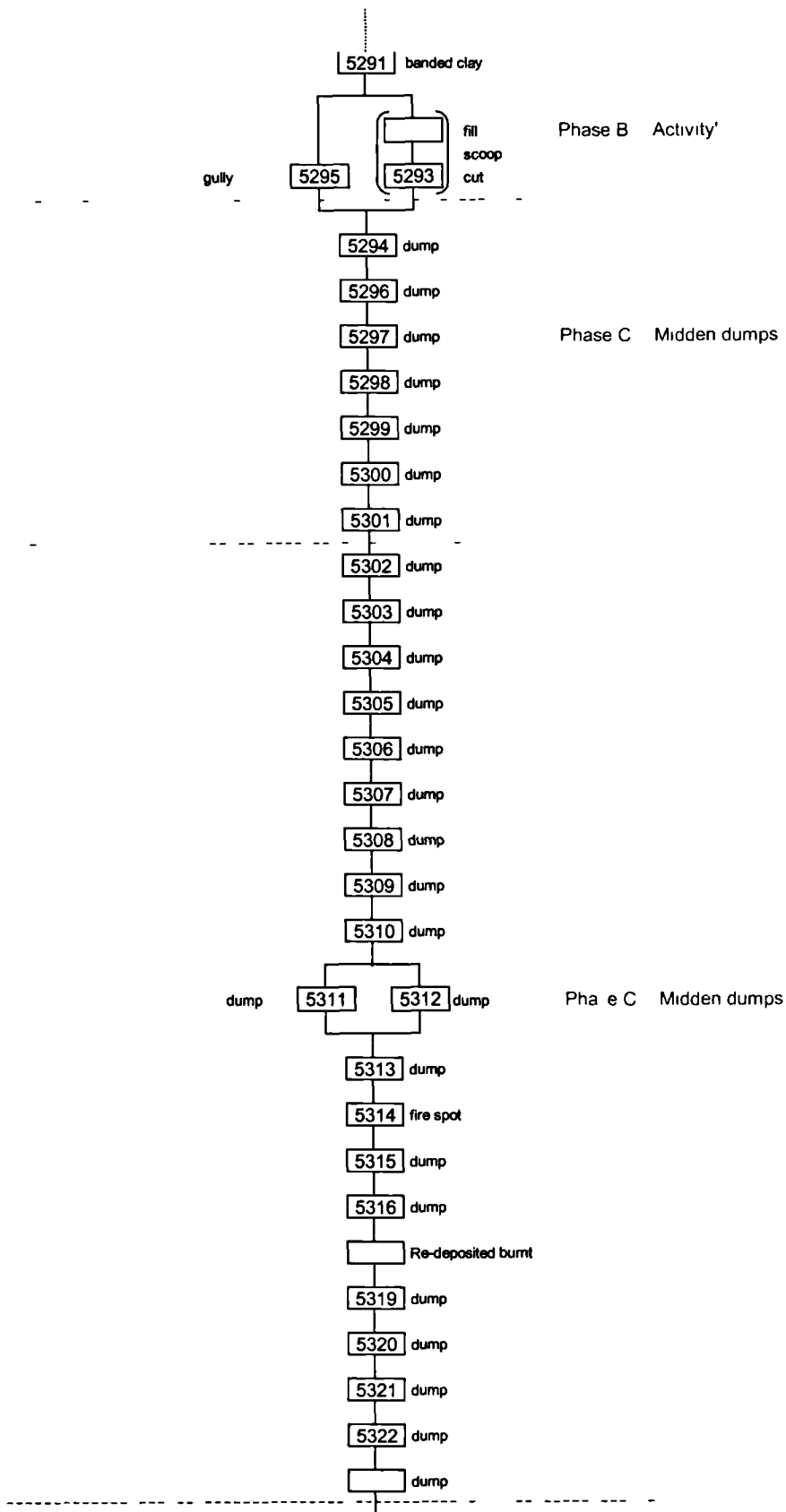


Fig. 4.12c Catalhöyük-South Area: Harris matrix of space 181 (Phases B-C)

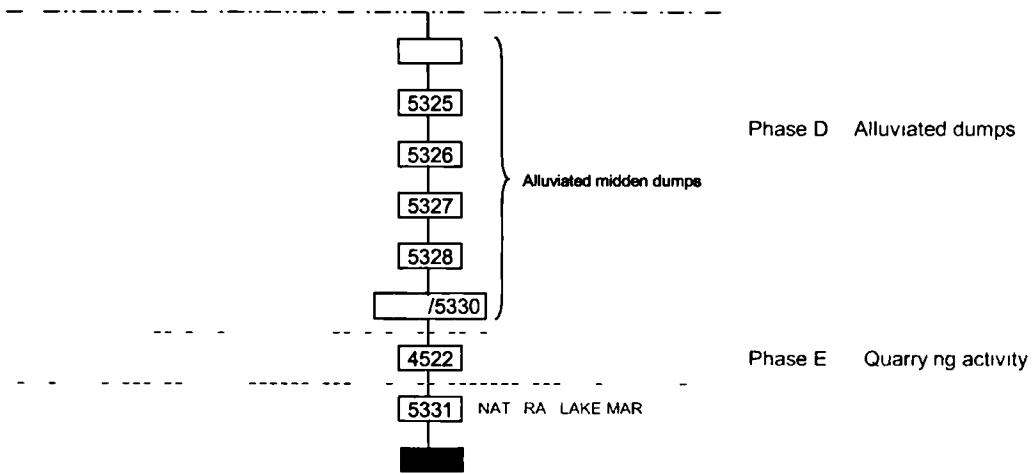
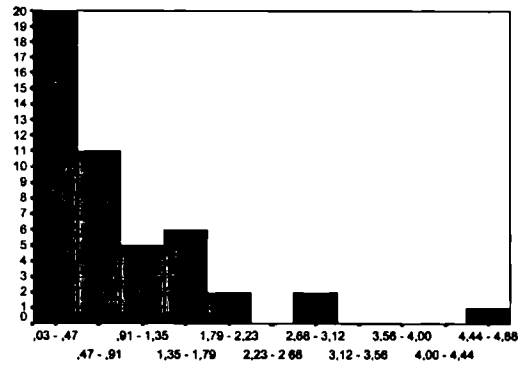
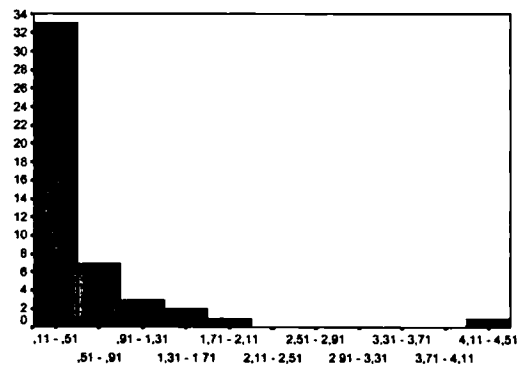


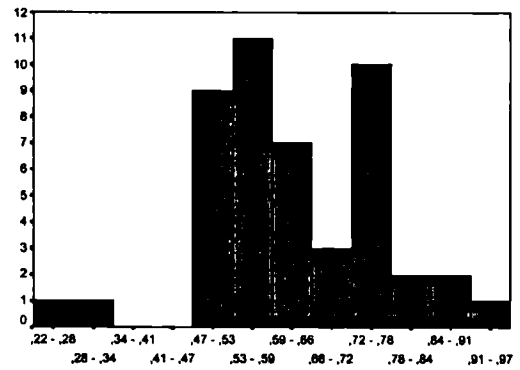
Fig. 4.12d Çatalhöyük-South Area: Harris matrix of space 181 (Phases D-E)



STDW



Fr/Pr



S-W

Fig. 4.13 Çatalhöyük-South Area: Frequency distribution bar charts for midden/dump units (top: density, middle: fragmentation/preservation, bottom: diversity)

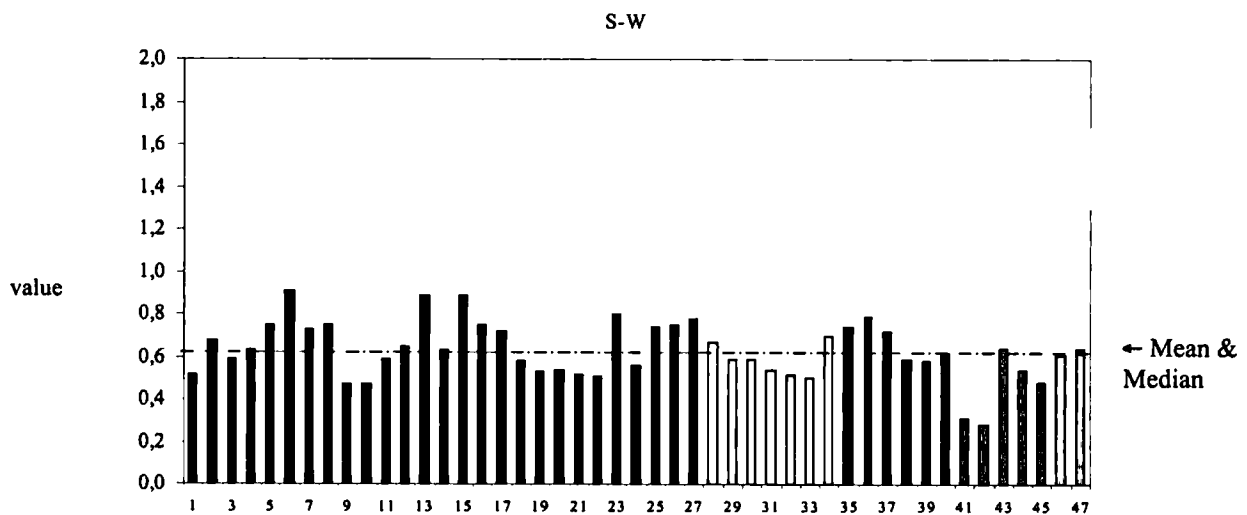
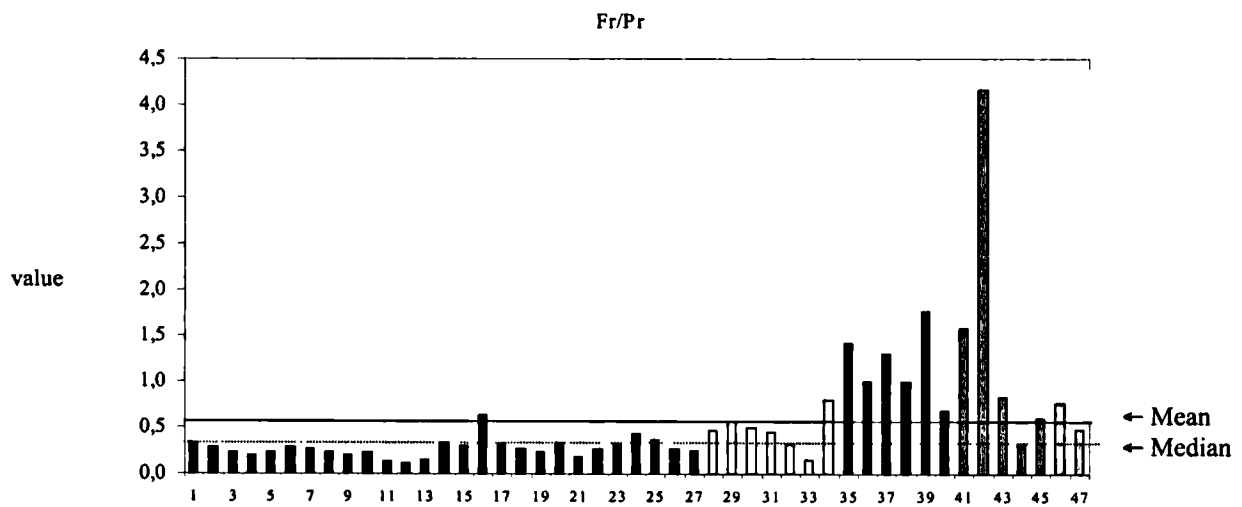
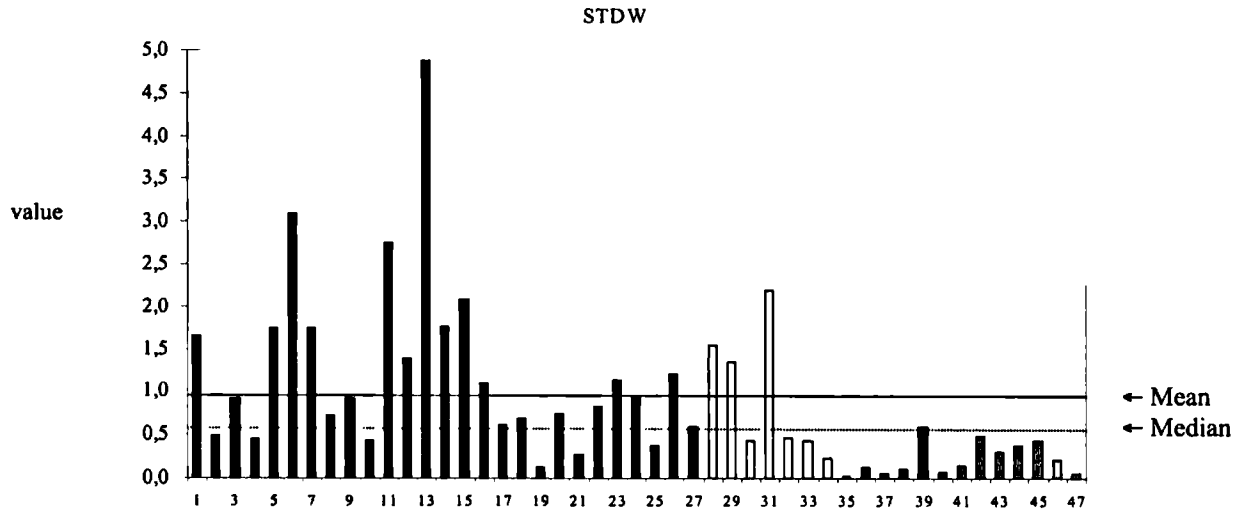


Fig. 4.14 Çatalhöyük-South Area: Bar charts showing density (STDW), fragmentation/preservation (Fr/Pr) and diversity (S-W) values for all midden/dump units (see also Table 4.5)

■ Levels VII-IX, □ Pre-XII Phase A, ■ Pre-XII Phase B, ■ Pre-XII Phase C,
 □ Pre-XII Phase D

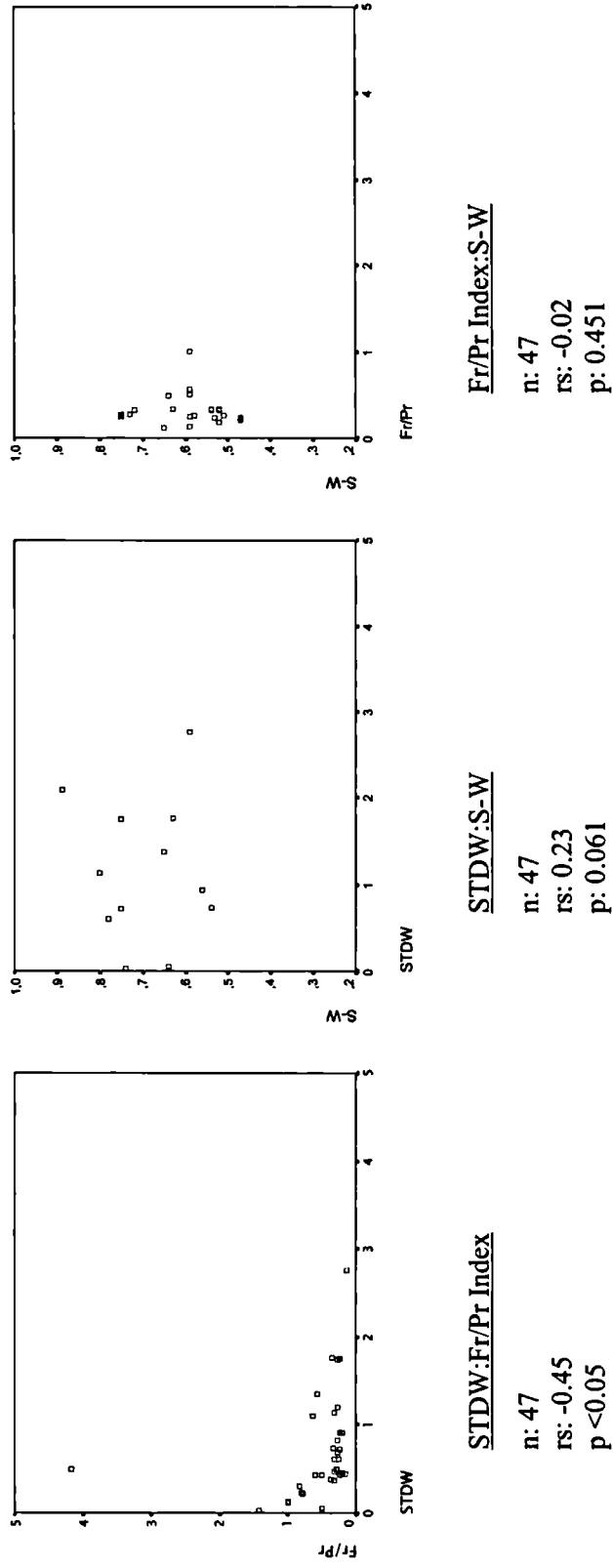


Fig. 4.15 Çatalhöyük-South Area: Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) of density (STDW), fragmentation/preservation (Fr/Pr index) and diversity (S-W index) values for all midden/dump units (no. of samples 47)

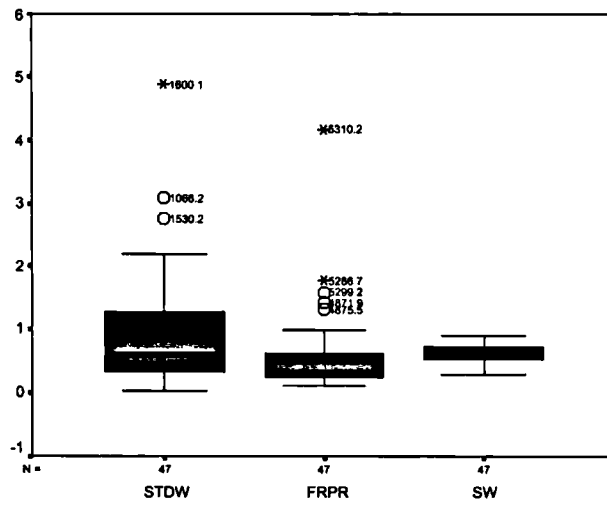


Fig. 4.16 Çatalhöyük-South Area: Box plots of density, Fr/Pr and diversity values for all midden/dump units (no. of samples 47; * far outliers, O near outliers)

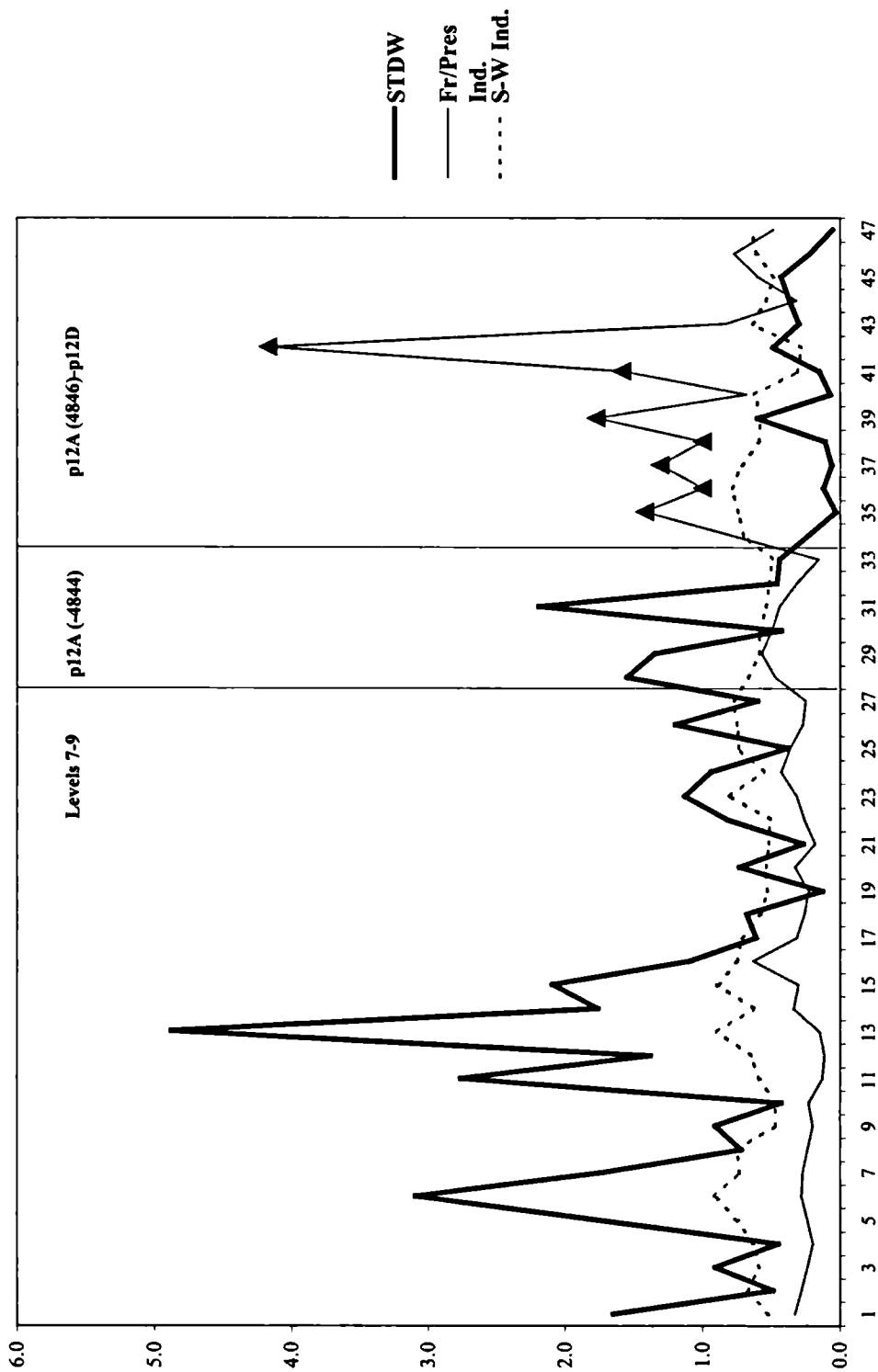


Fig. 4.17 Çatalhöyük-South Area: Line plot of density (STDW), Fr/Pr and diversity (S-W Ind.) measurements for all midden/dump units (arrows denote outliers for Fr/Pr values)

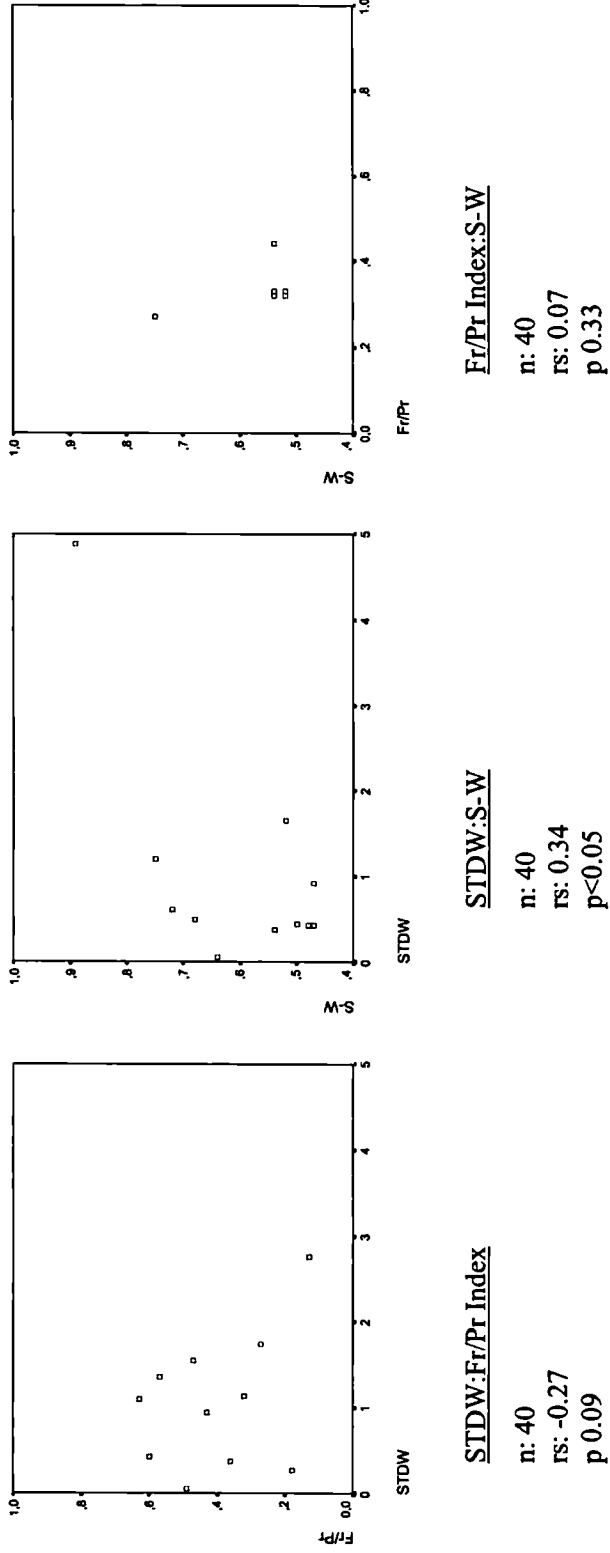


Fig. 4.18 Çatalhöyük-South Area. Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) of density (STDW), fragmentation/preservation (Fr/Pr index) and diversity (S-W index) values for all midden/dump units (no. of samples 40)

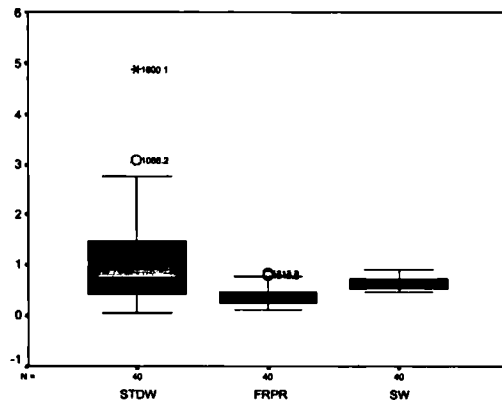


Fig. 4.19 Çatalhöyük-South Area: Box plots of density, Fr/Pr and diversity values for midden/dump units (no. of samples 40; * far outliers, O near outliers)

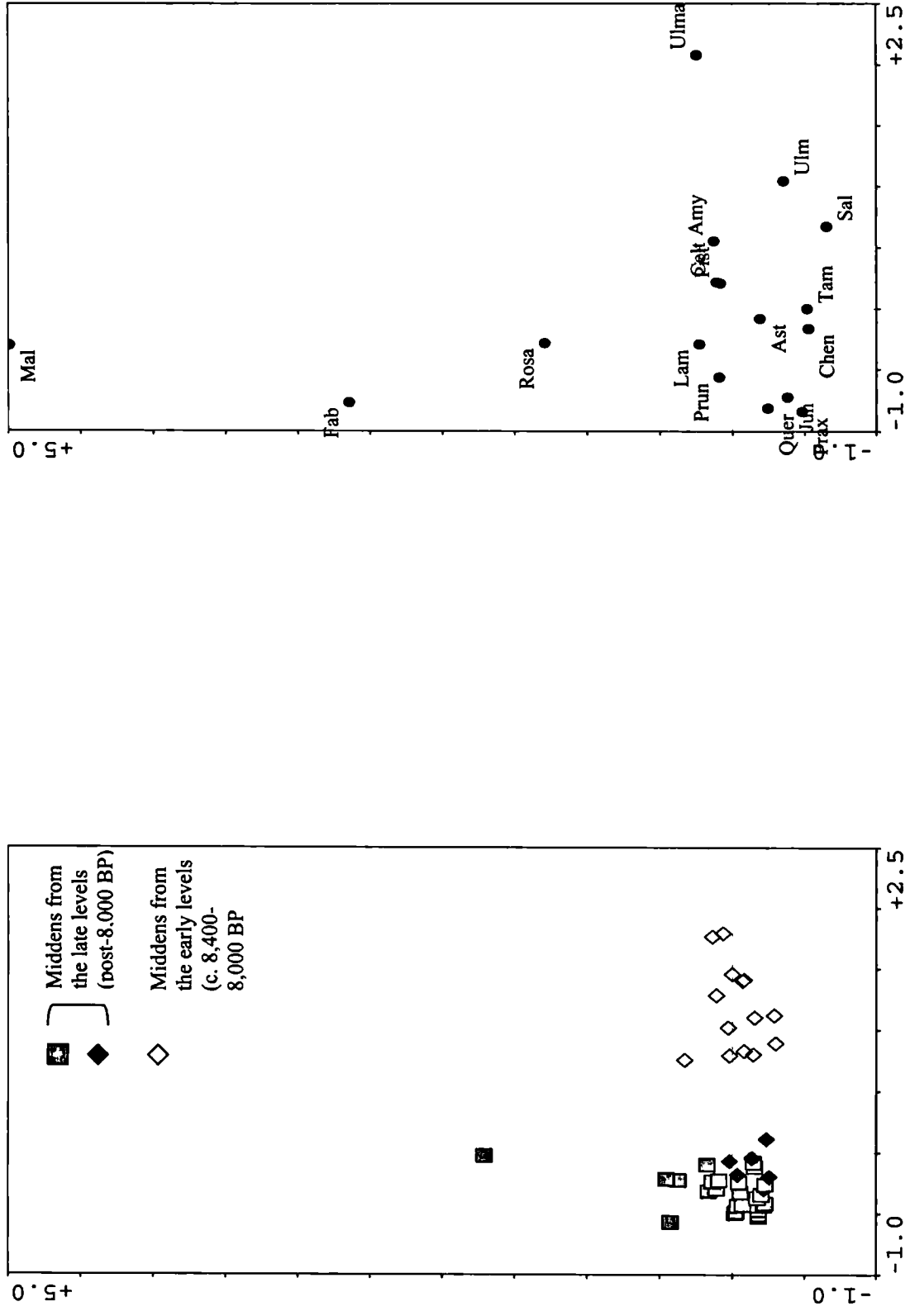


Fig. 4.20 Çatalhöyük-South Area: Correspondence analysis scatterplots (left sample plot, right species plot) of all midden/dump units [■] levels VII-IX, [◆] pre-level XII Phase A (-4844), [◇] pre-level XII Phases A (4846)-D

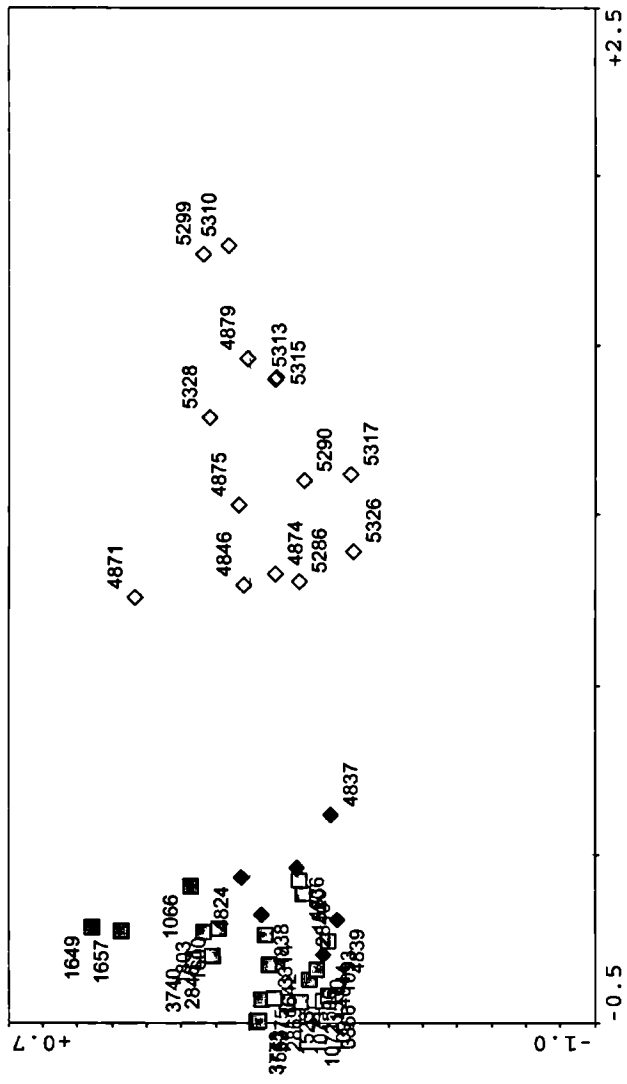


Fig. 4.21 Çatalhöyük-South Area: Detail of correspondence analysis scatterplot showing unit numbers (for key see Fig. 4.21)

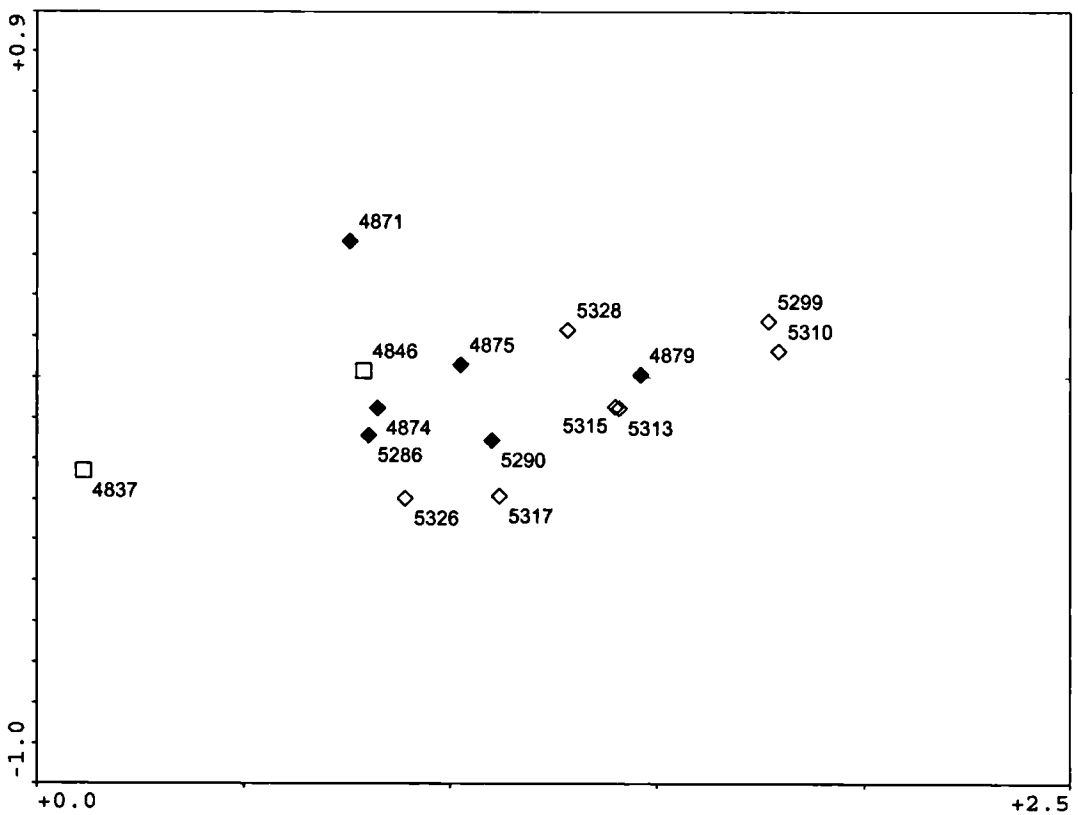
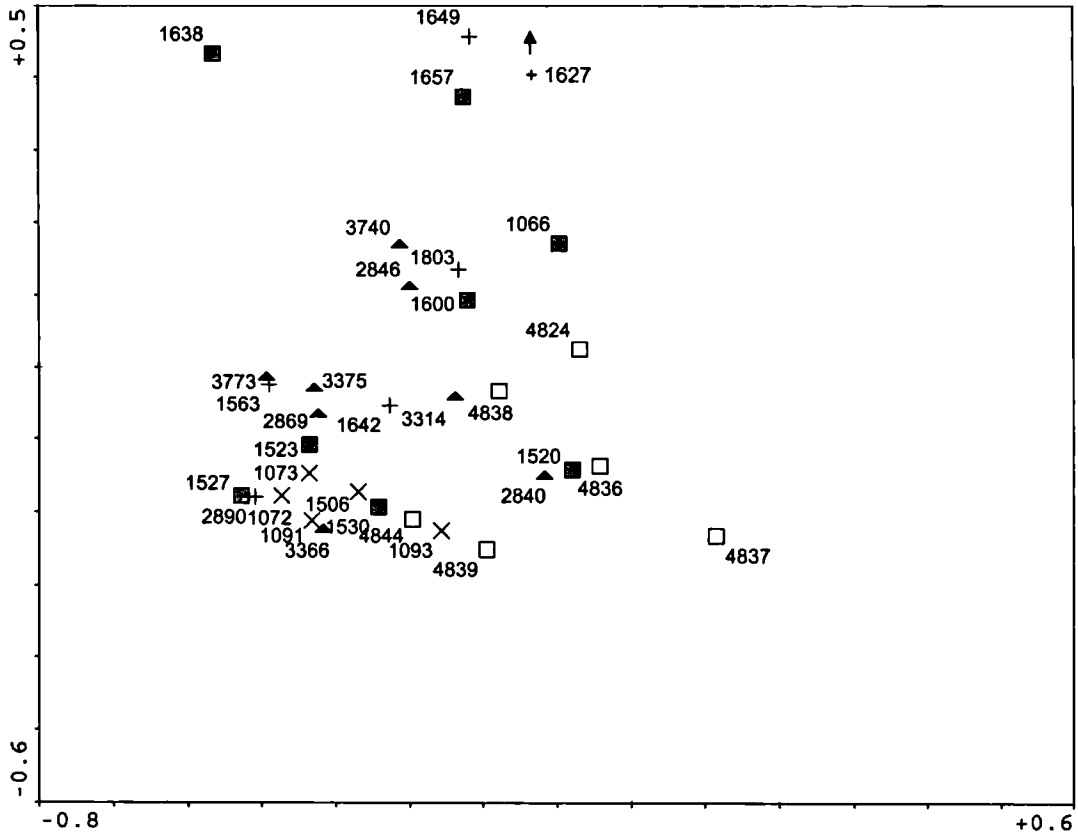


Fig. 4.22 Çatalhöyük-South Area: Detail of correspondence analysis scatterplot showing midden units classified according to context type (see also Fig. 4.20)

■ Midden, + room fill, ▲ midden associated with activity areas/clayey midden,
 × fill/cluster, □ middens/pre-XII Phase A, ◆ middens/pre-XII Phase B, ◇ middens/
 pre-XII Phases C-D

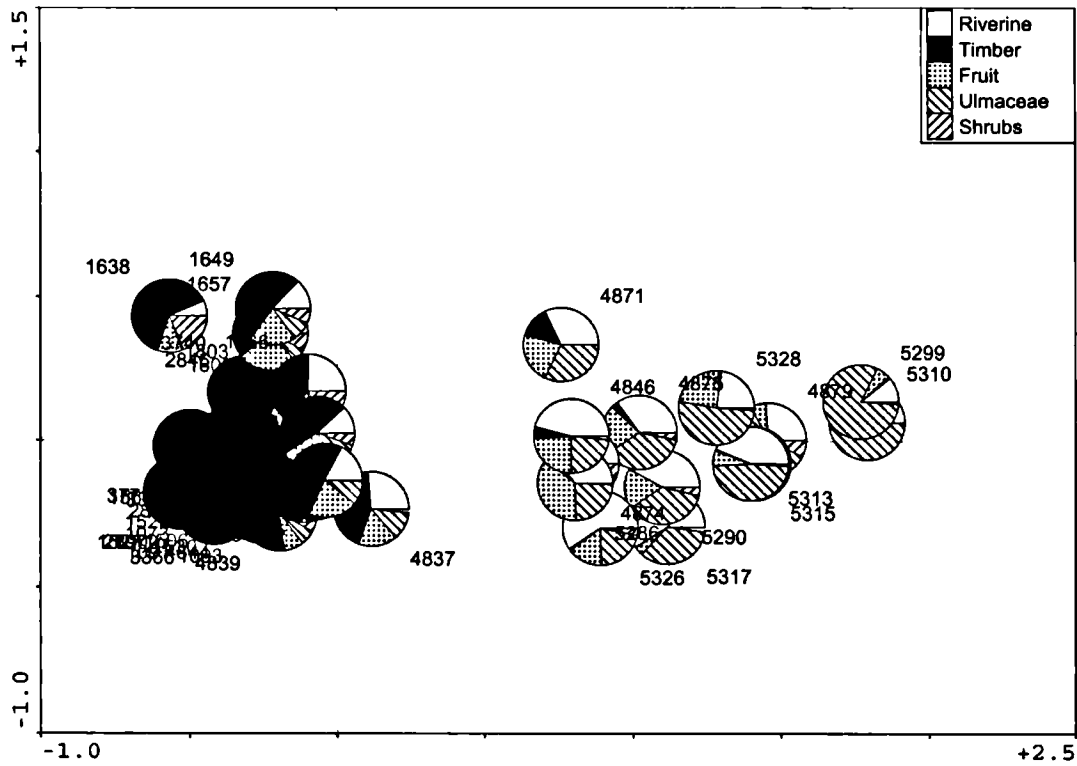


Fig. 4.23 Çatalhöyük-South Area: Detail of correspondence analysis scatterplot showing sample composition plot for all midden units. Category “Timber” includes *Quercus* and *Juniperus*. Samples grouped to the left (post-8,000 BP middens) show high frequencies of *Quercus* and *Juniperus* (raw counts have been used for sample composition plot)

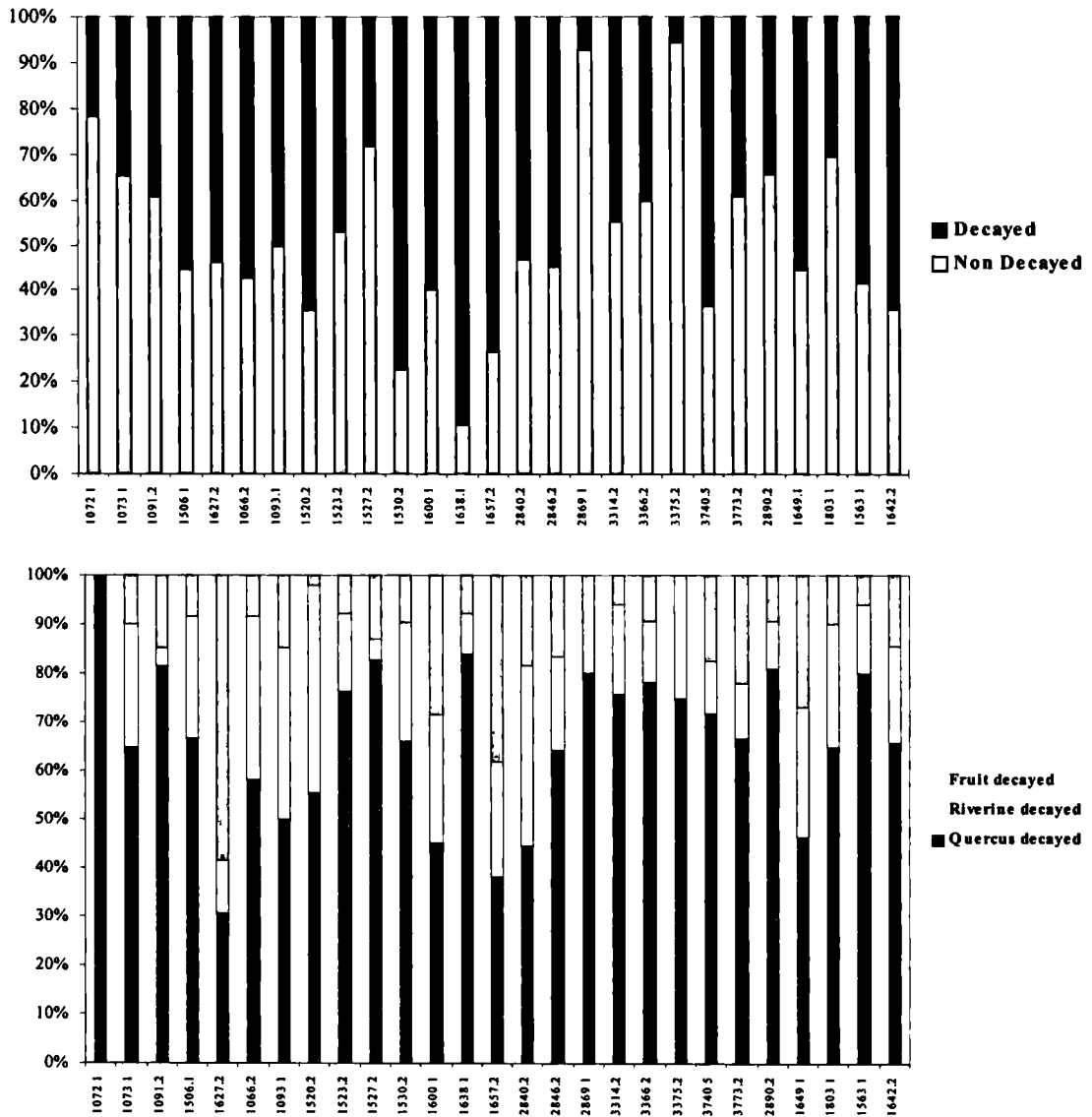


Fig. 4.24 Çatalhöyük-South Area: Frequency of deadwood specimens amongst the samples of midden/dump units from excavation levels VII-IX

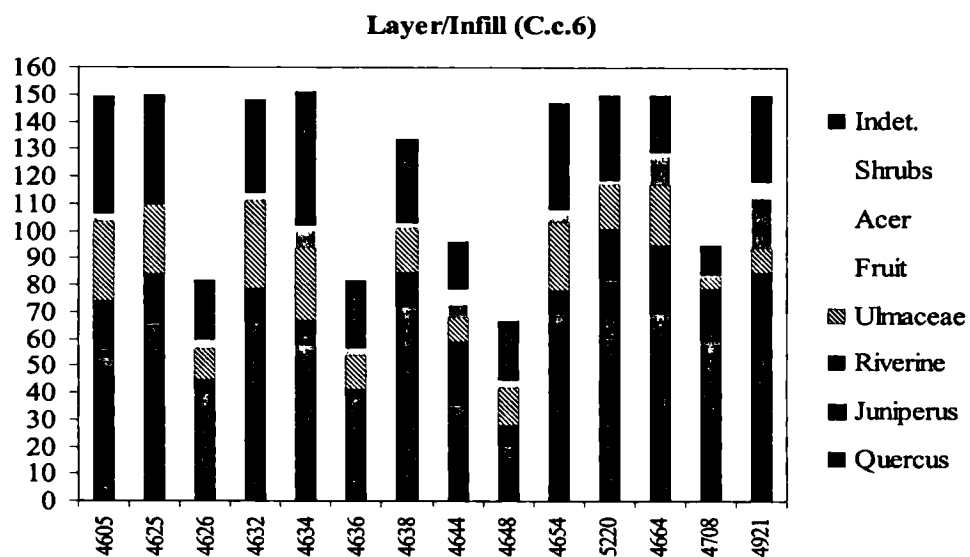
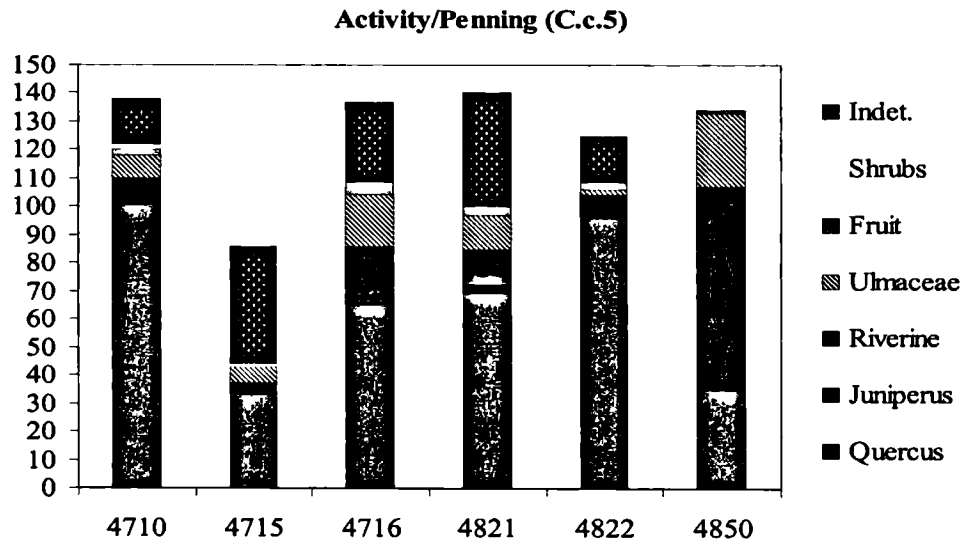
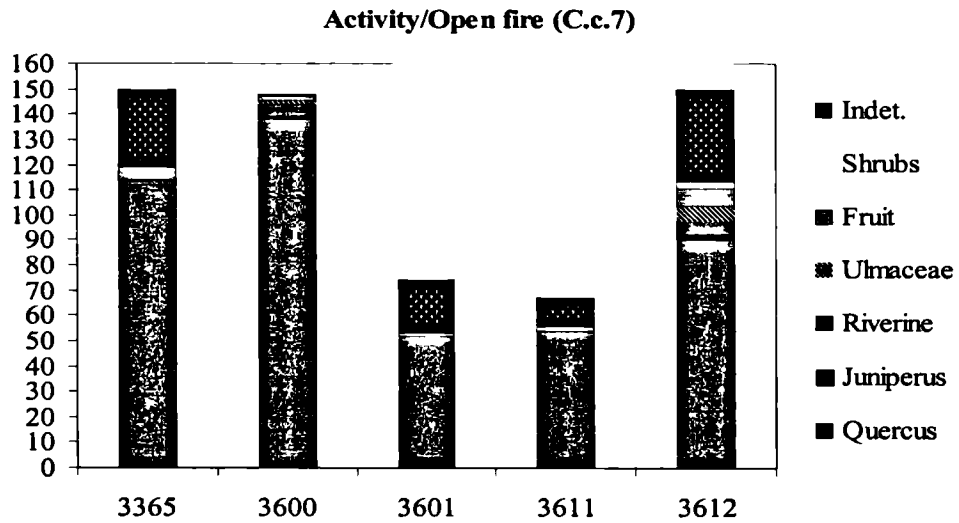


Fig. 4.25 Çatalhöyük-South Area: Absolute fragment counts for open fire, penning and building infill contexts

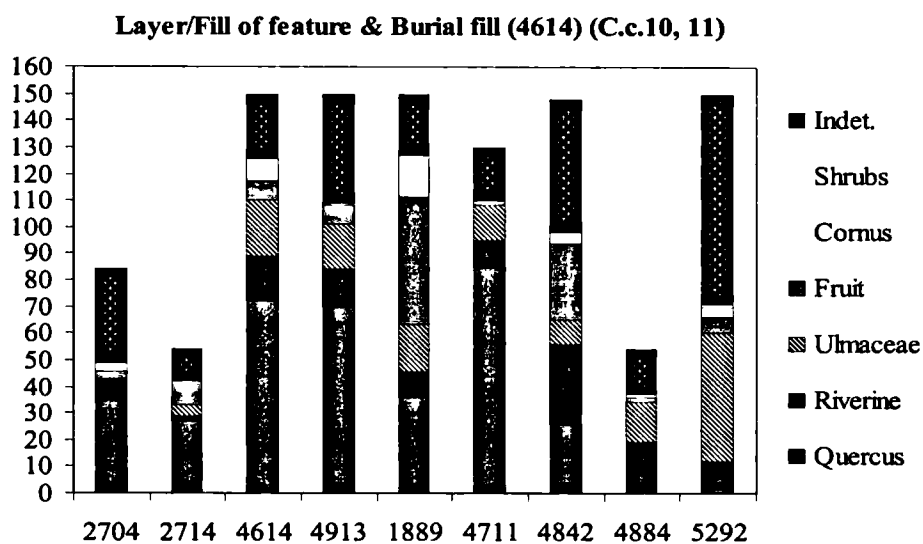
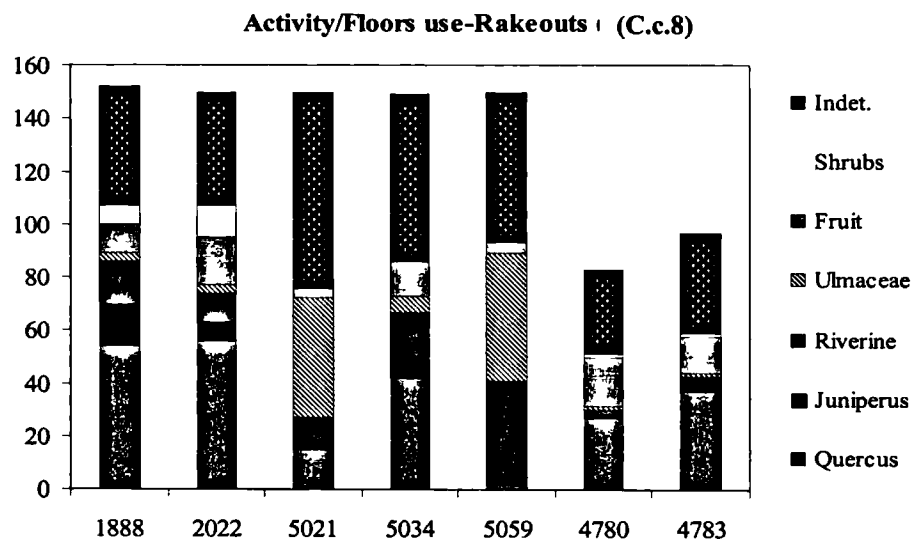
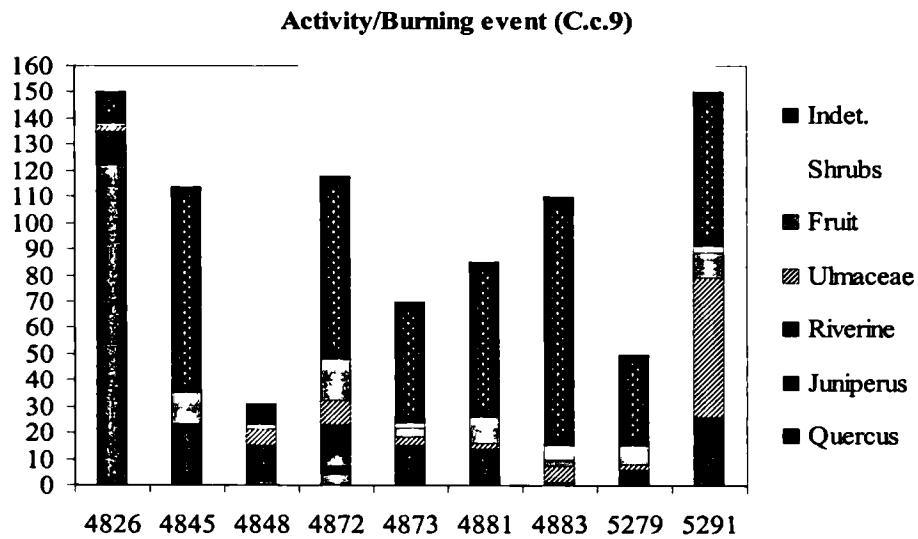


Fig. 4.26 Çatalhöyük-South Area: Absolute fragment counts for burning events, floor-use/rakeout deposits and feature fills

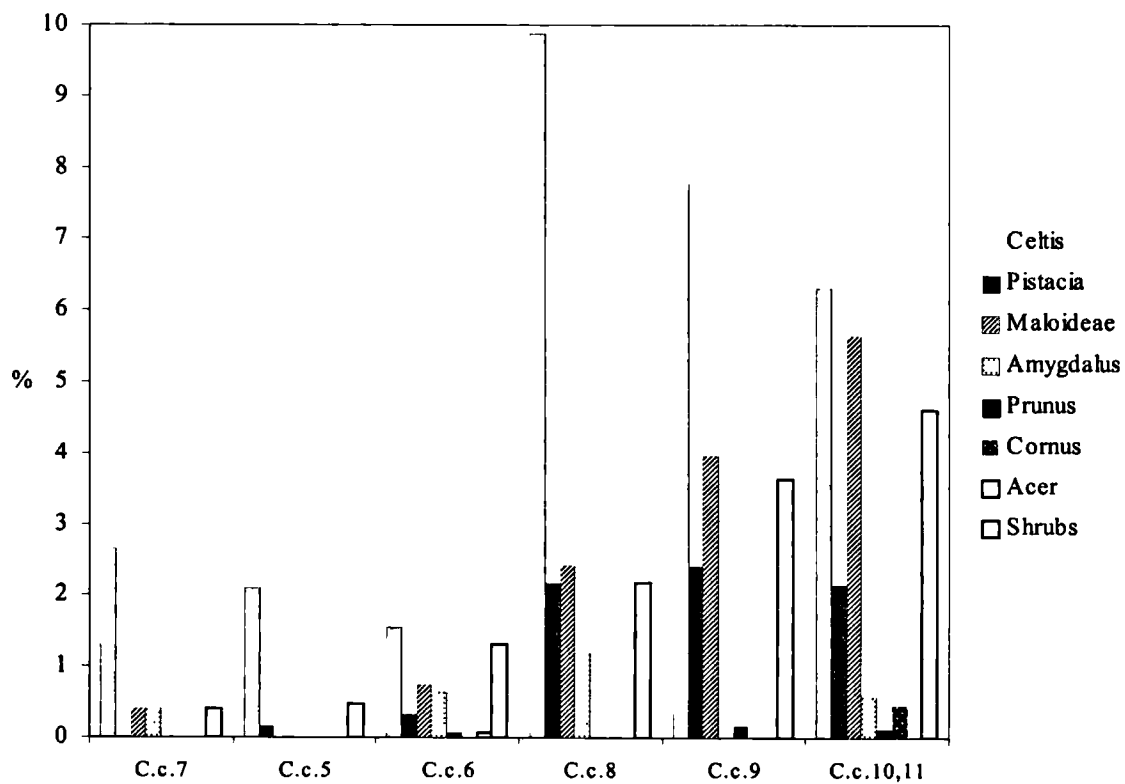
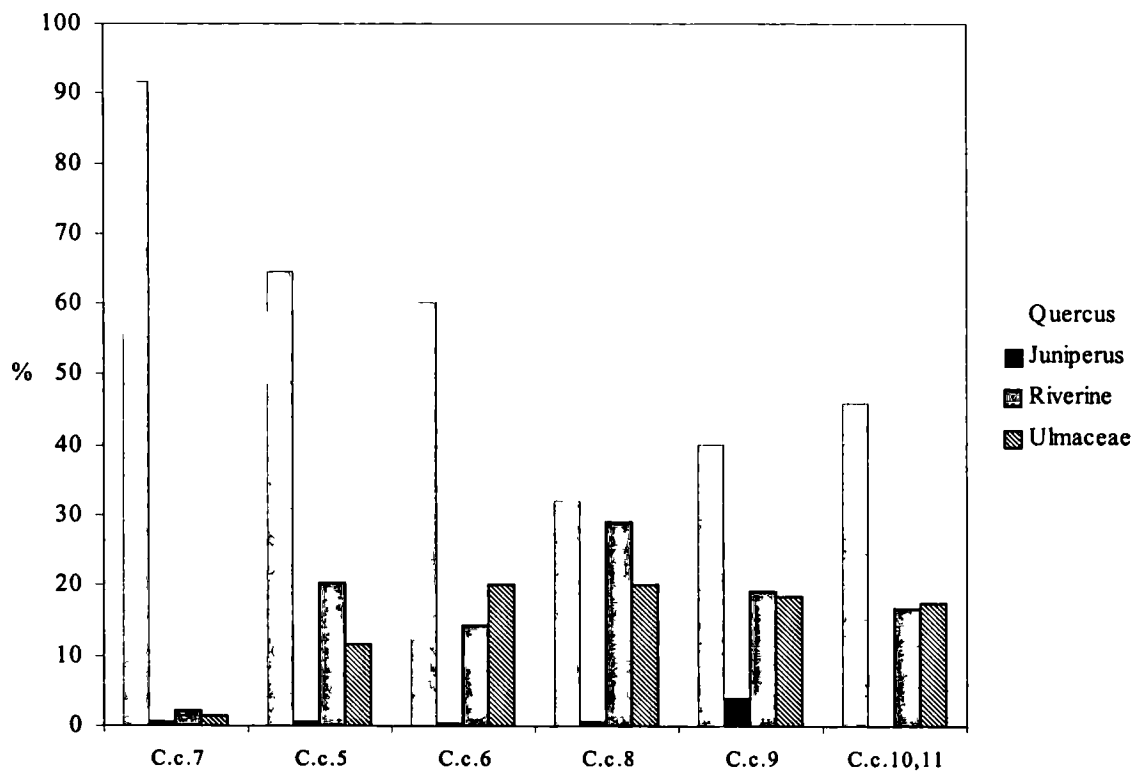


Fig. 4.27 Çatalhöyük-South Area: Percentage fragment counts for all non-midden/dump units (grouped by context type/category)

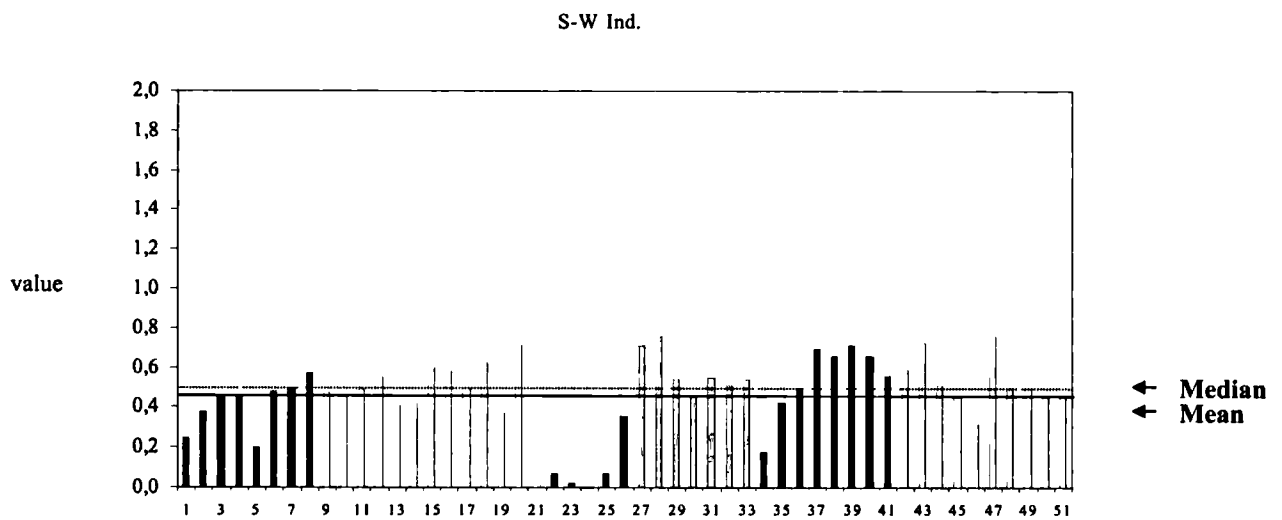
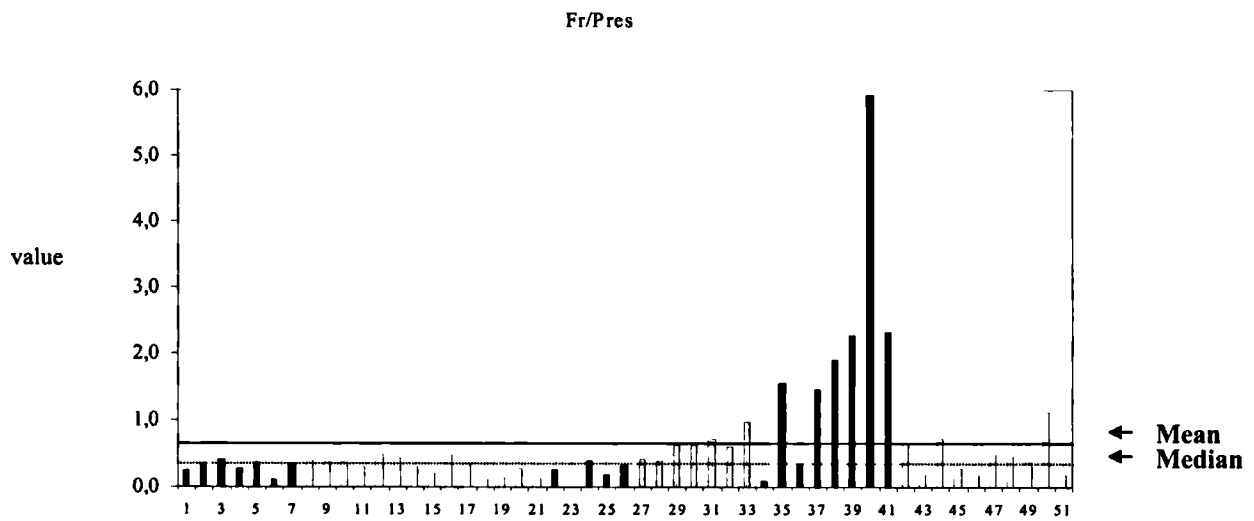
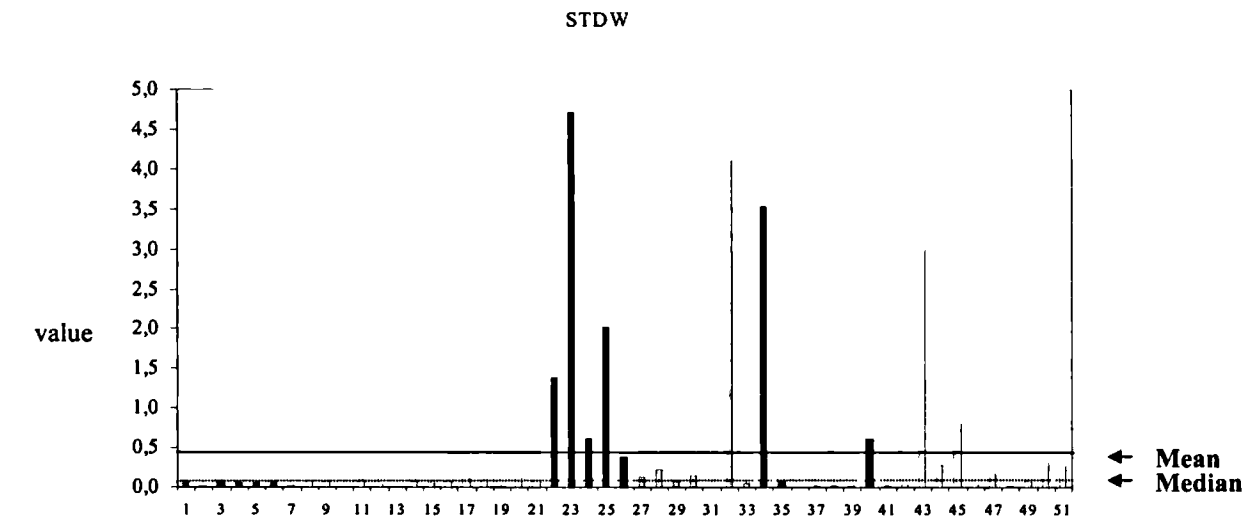
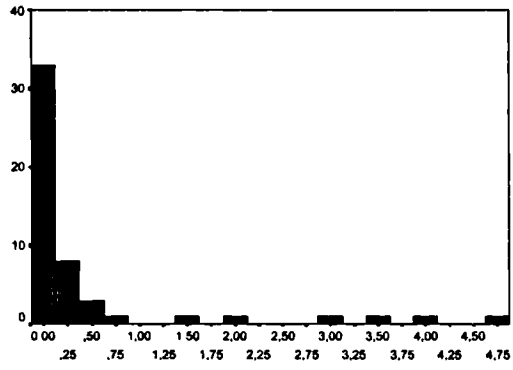
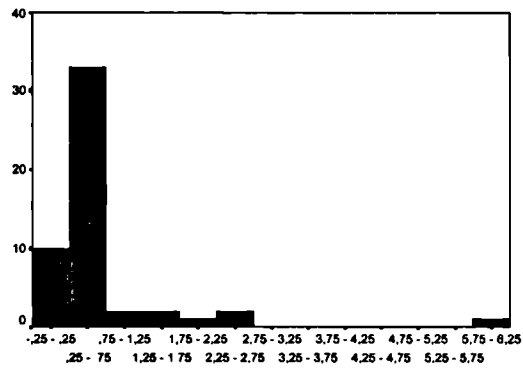


Fig. 4.28 Çatalhöyük-South Area: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) measurements for all non-midden/dump contexts

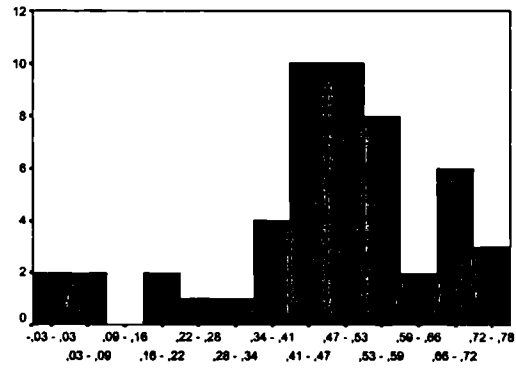
- Accumulation/penning, □ Building infills, ■ Activity/Open fire
- Activity/Floors use (rakeout), ■ Activity/Burning event, □ Feature fills/burial fill



STDW

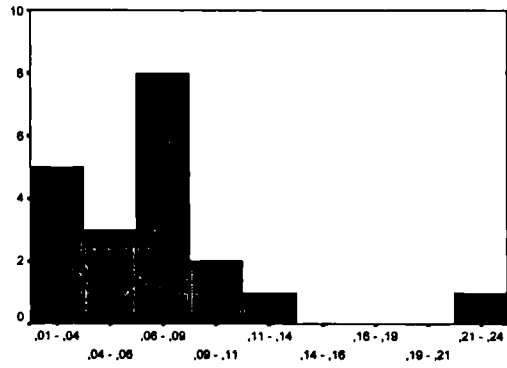


Fr/Pr

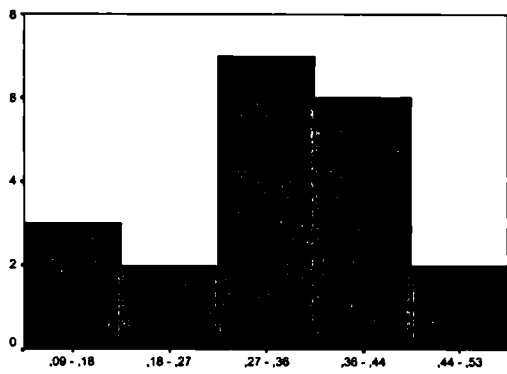


S-W Ind.

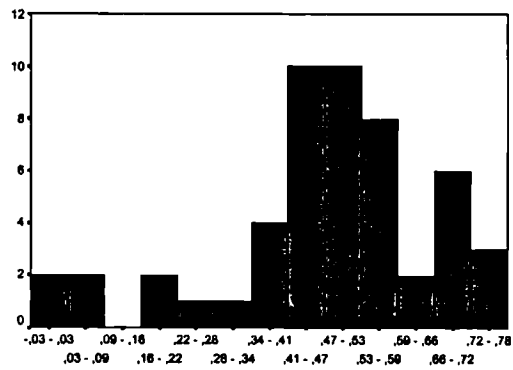
Fig.4.29 Çatalhöyük-South Area: Bar charts showing frequency distributions of density, Fr/Pr and diversity values for all non-midden/dump units



STDW



Fr/Pres



S-W Ind.

Fig. 4.30 Çatalhöyük-South Area: Bar charts showing frequency distribution of density, Fr/Pr and diversity values for activity/penning and building infill deposits

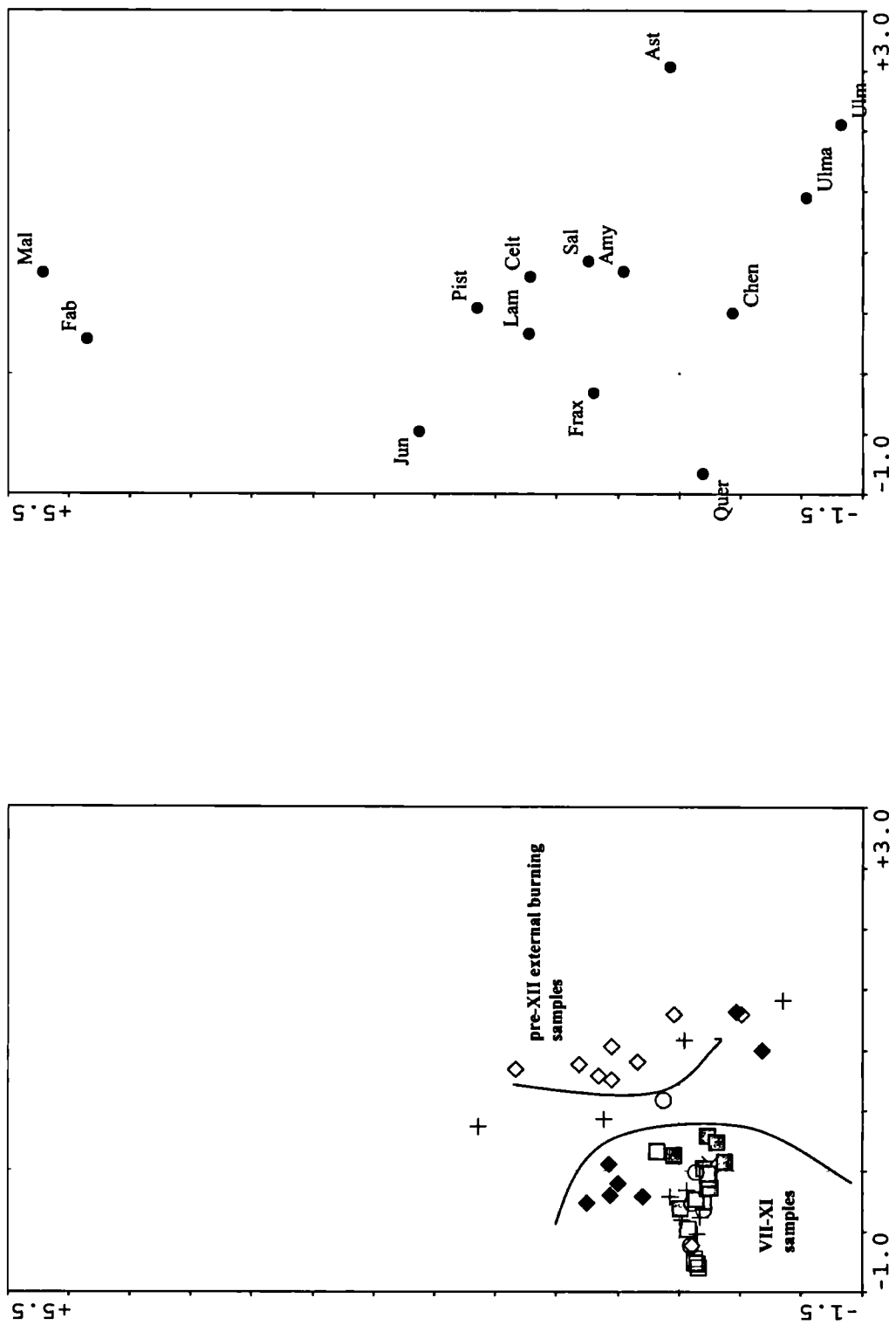


Fig. 4.31 Catalhöyük-South Area: Correspondence analysis scatterplots (left sample plot, right species plot for the same samples) of all non midden/dump units
 □ activity/open fire, ○ building infills, ◊ floors-use/rakeout, ◇ burning events
 + feature fills

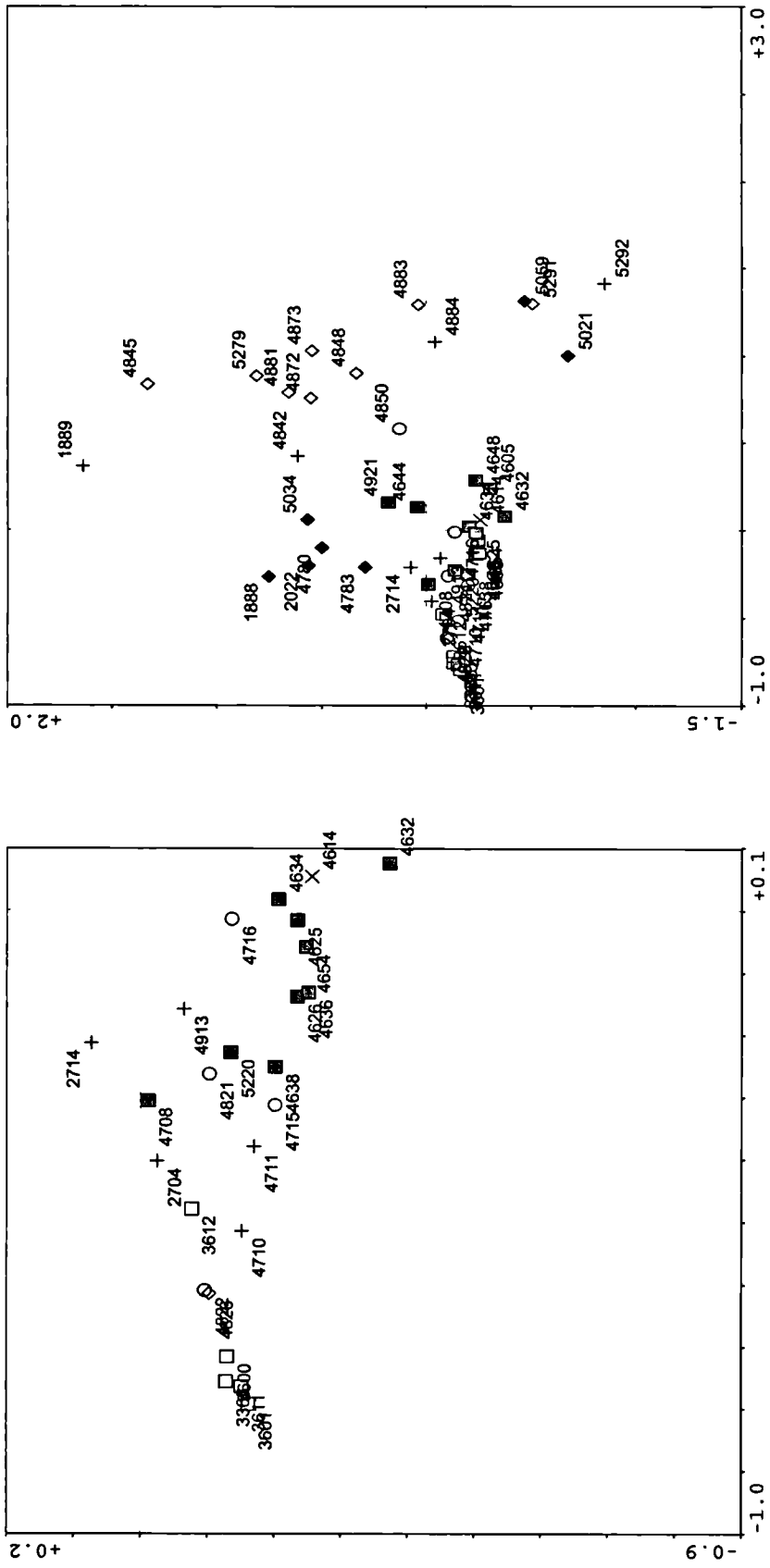


Fig. 4.32a Çatalhöyük-South Area: Detail of correspondence analysis scatterplot for all non-midden/dump units showing unit numbers (for key see Fig. 4.31)

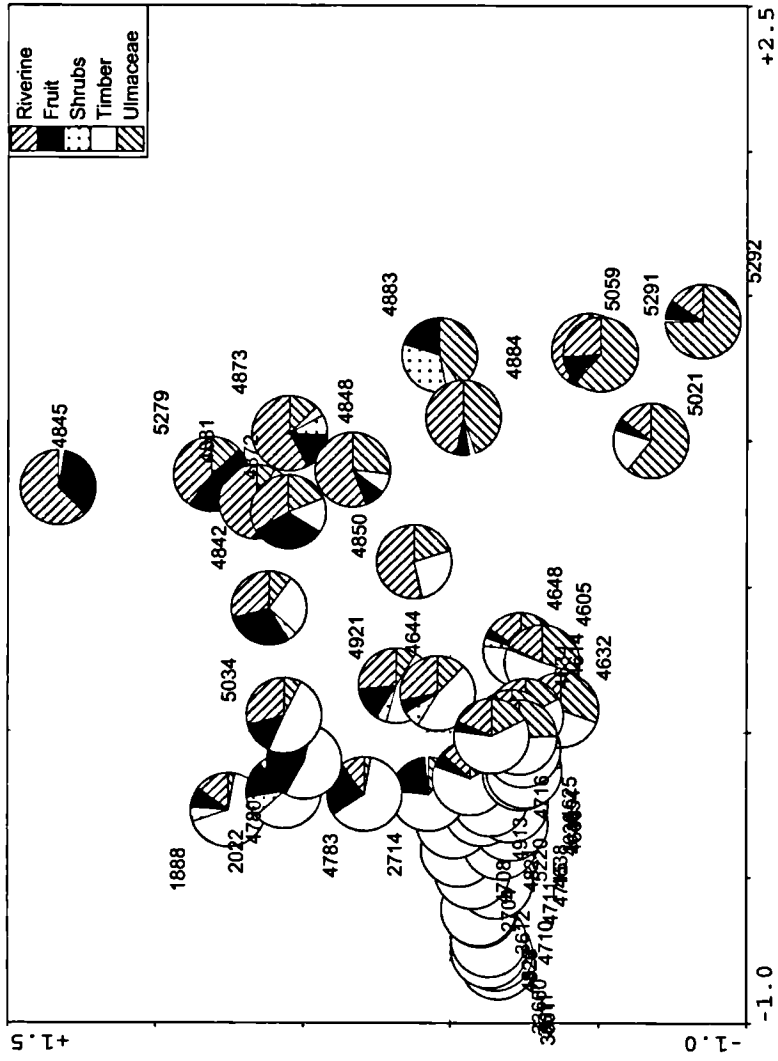


Fig. 4.32b Çatalhöyük-South Area: Detail of correspondence analysis scatterplot showing the sample composition plot for all non-midden/dump units (raw counts have been used for construction of sample composition plot)

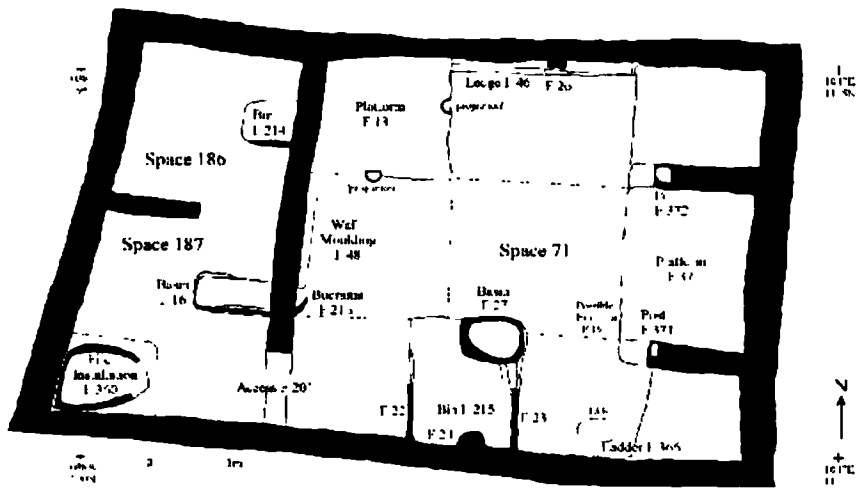
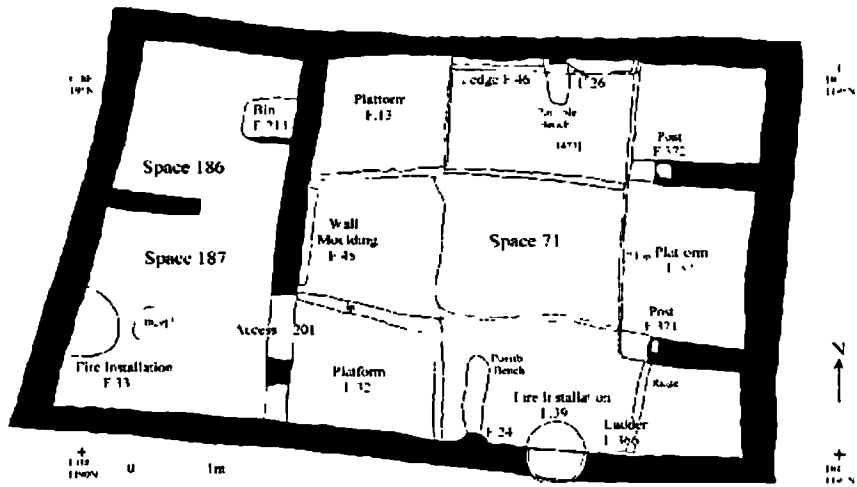
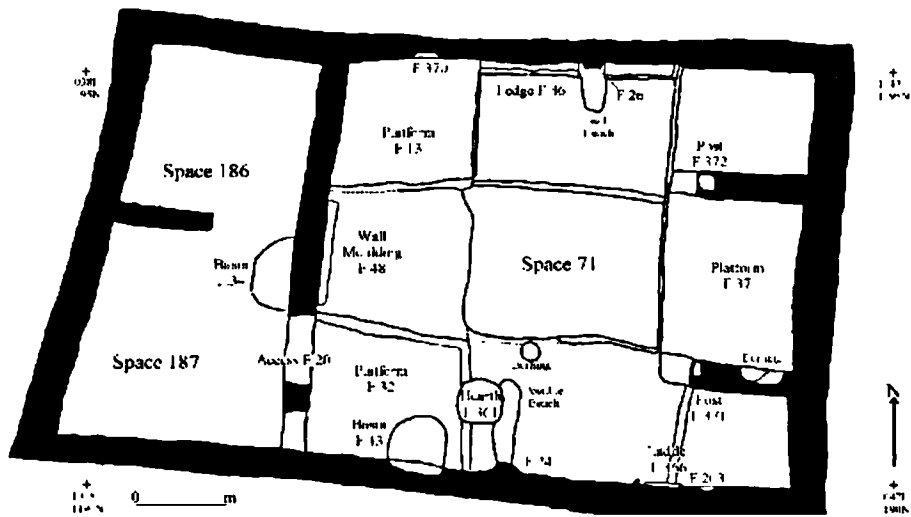


Fig. 4.33 Çatalhöyük-North Area: Plans of Building 1, phases B1.2A (top), B1.2B (middle) and B1.2C (bottom)

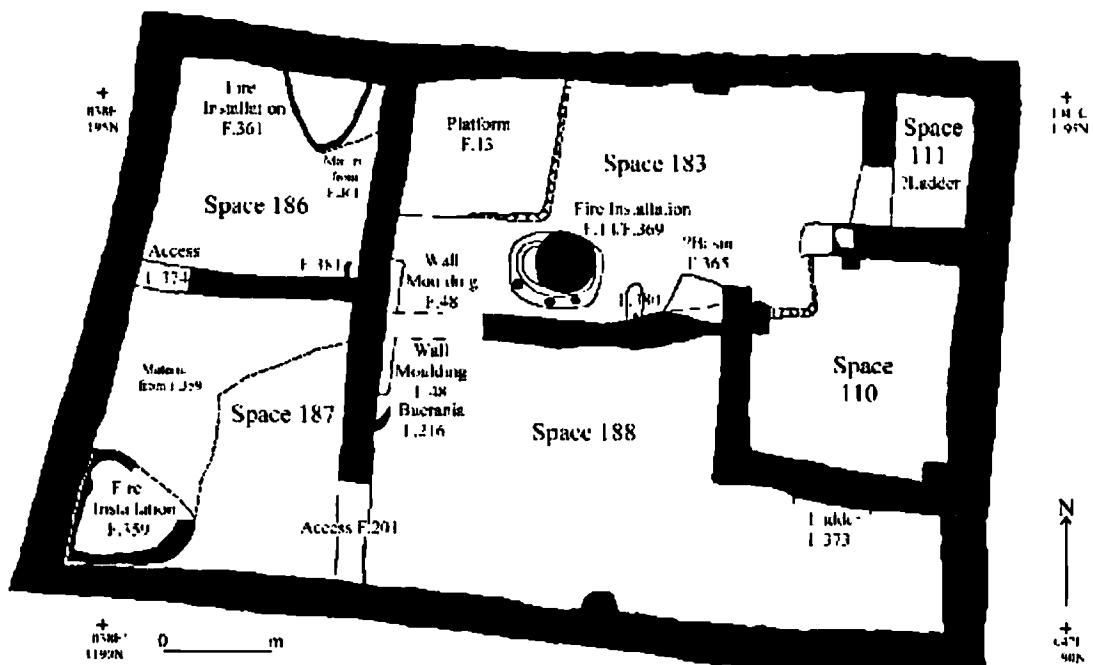
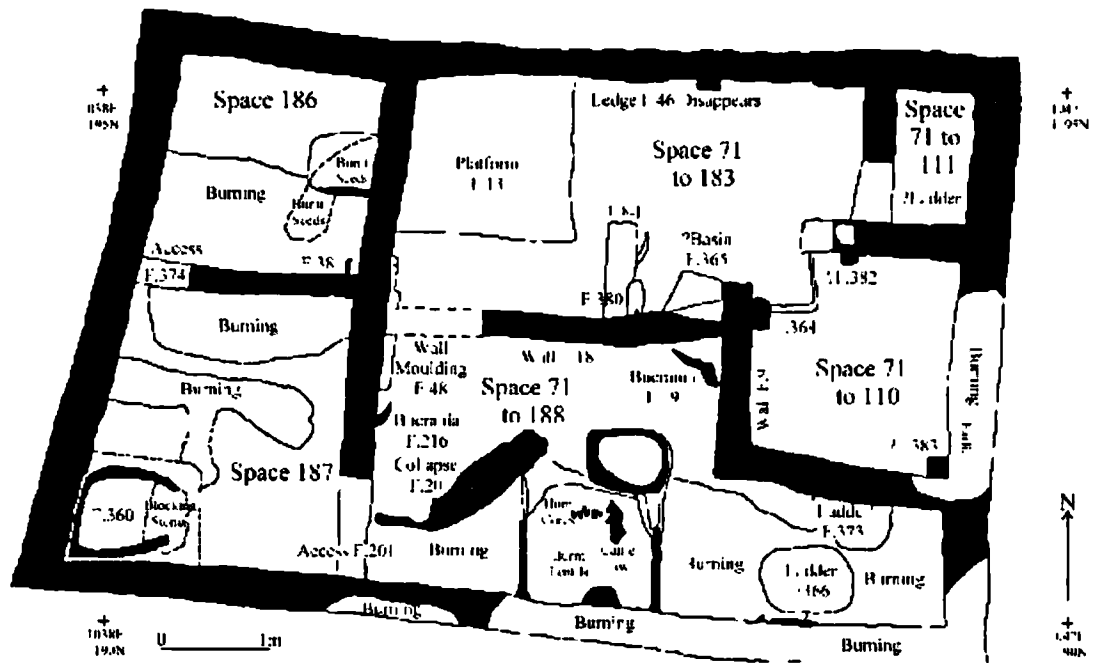


Fig. 4.34 Çatalhöyük-North Area: Plans of Building 1, phases B1.3 (“controlled burning”; top) and B1.4 (“secondary occupation”; bottom)

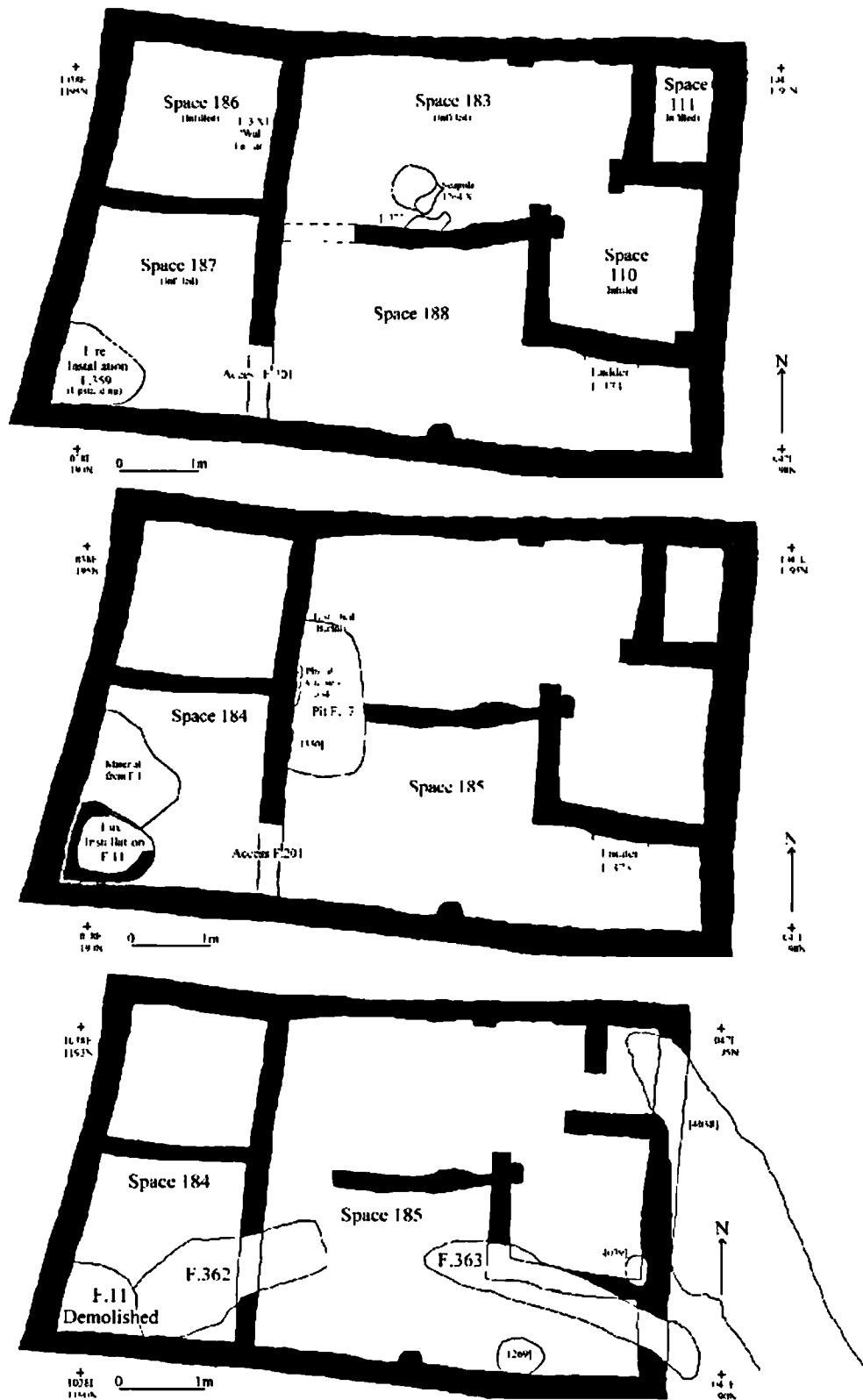


Fig. 4.35 Çatalhöyük-North Area: Plans of Building 1, “abandonment phase” (from top to bottom: B1.5A-1, B1.A-2, B1.A-3)

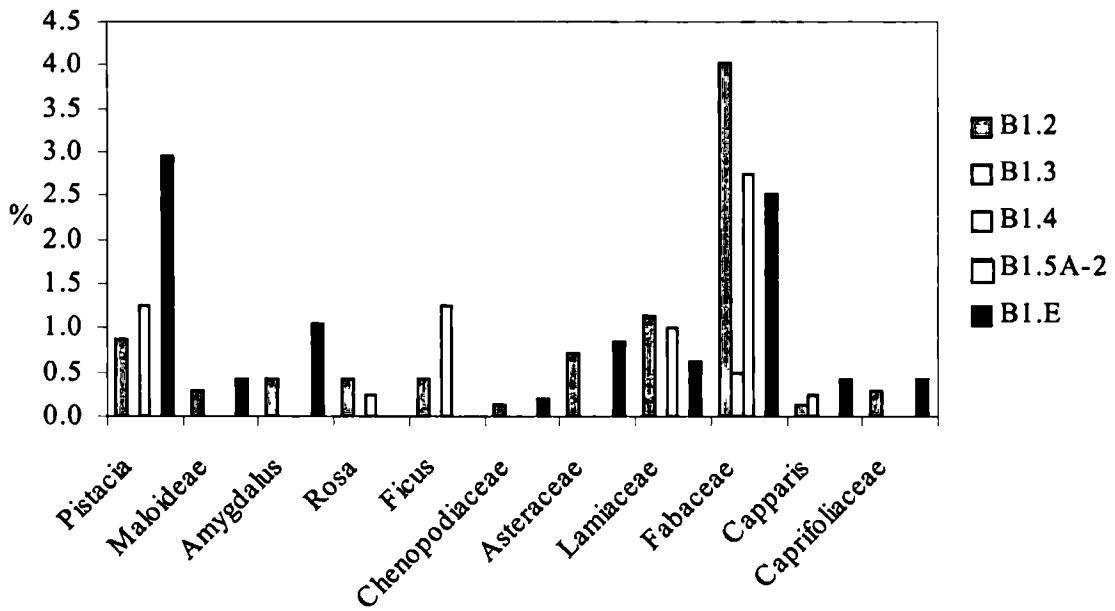
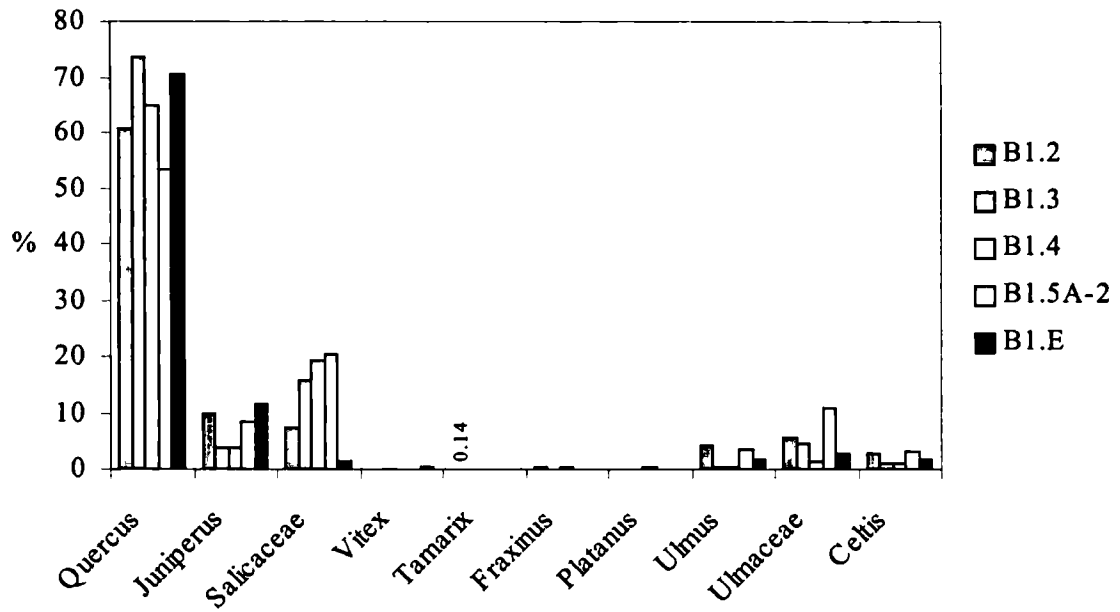
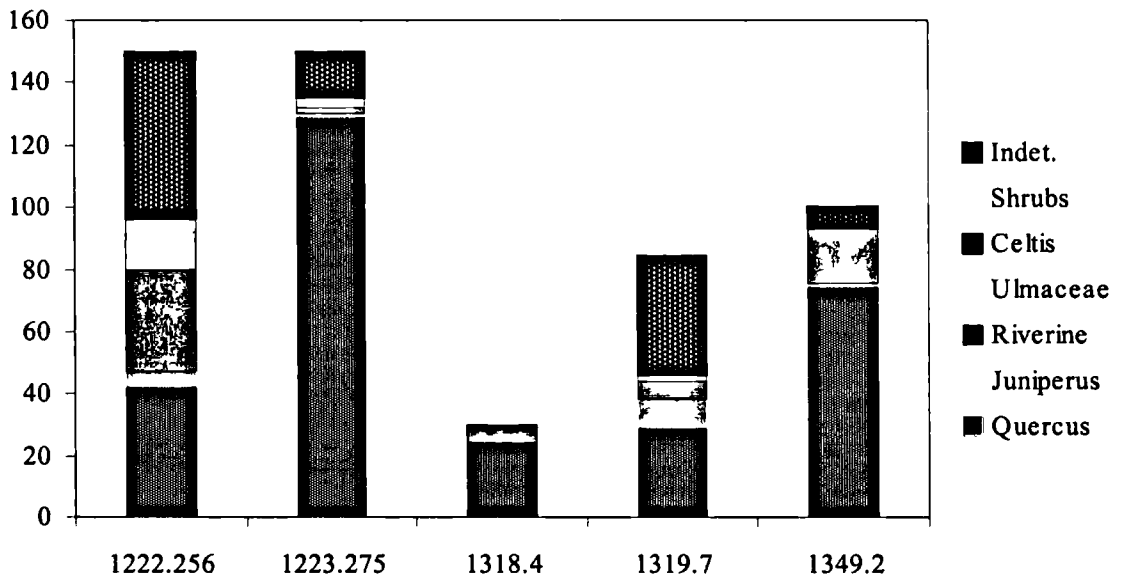


Fig. 4.37 Çatalhöyük-North Area: Summary percentage fragment counts from building 1, phases B1.2, B1.3, B1.4, B1.5A-2 and B1.E

B1.3



B1.4

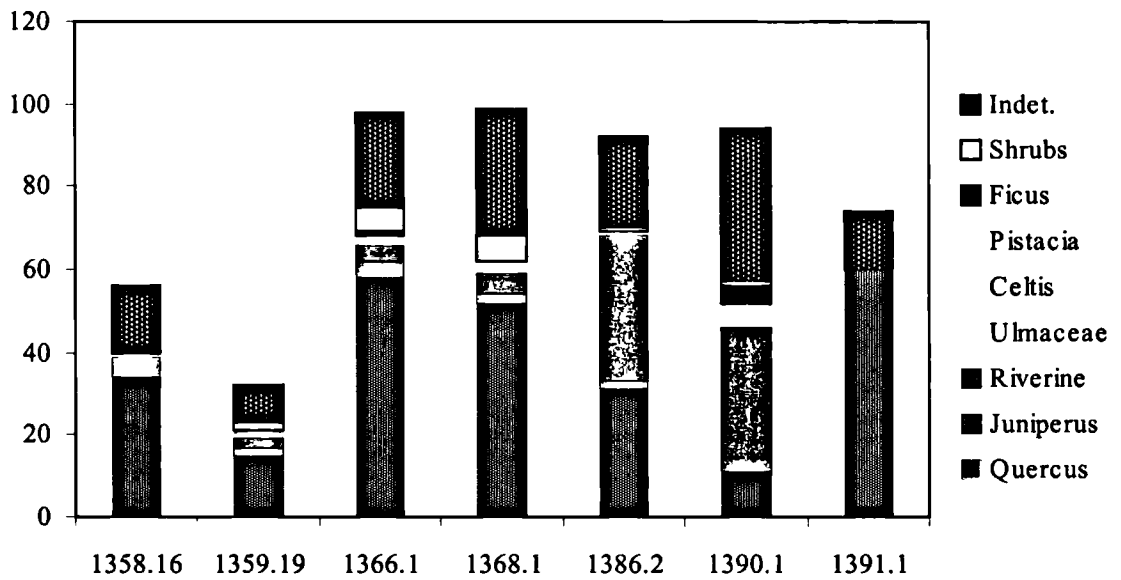


Fig. 4.38a Çatalhöyük-North Area: Summary absolute fragment counts plotted by phase/unit number for all sampled contexts of building 1 (continued)

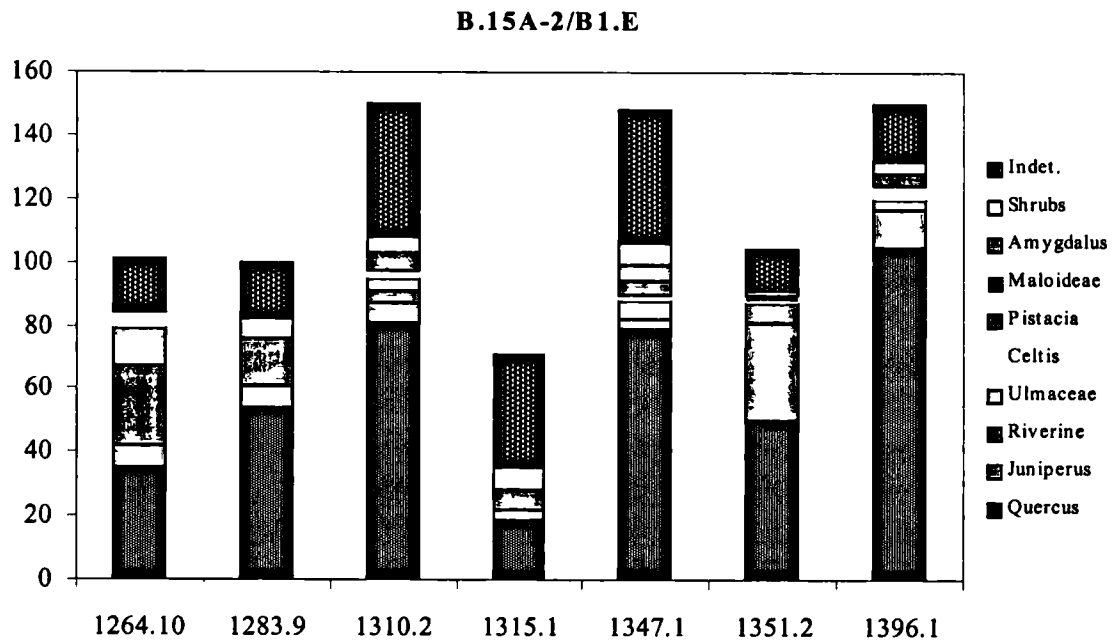
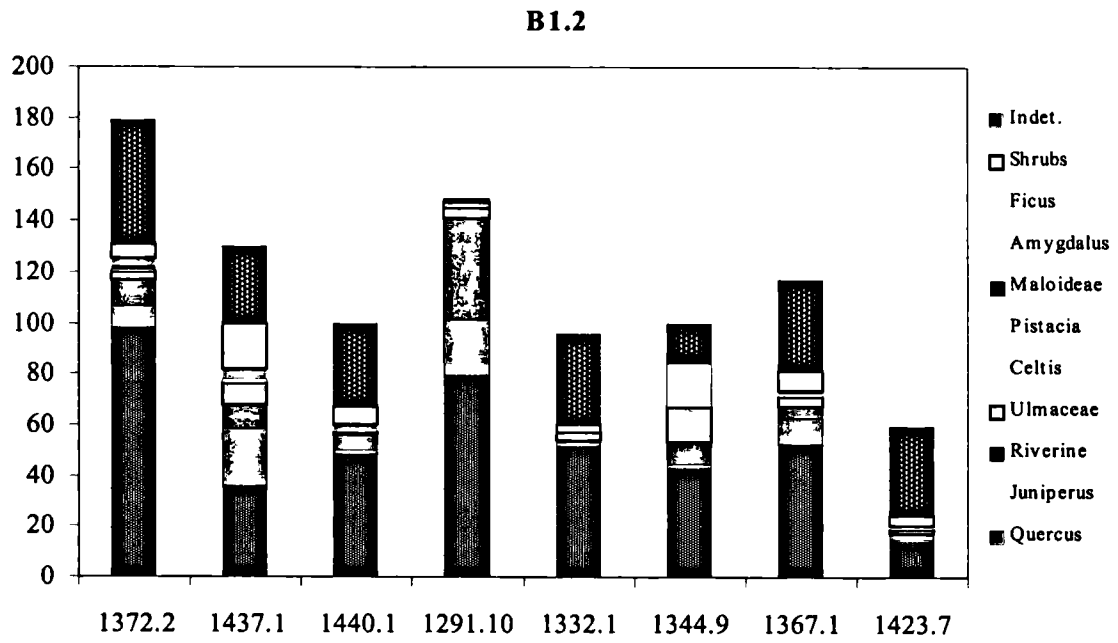


Fig. 4.38b Çatalhöyük-North Area: Summary absolute fragment counts plotted by phase/unit for all sampled contexts of building 1

In replacement of Fig. 4.39

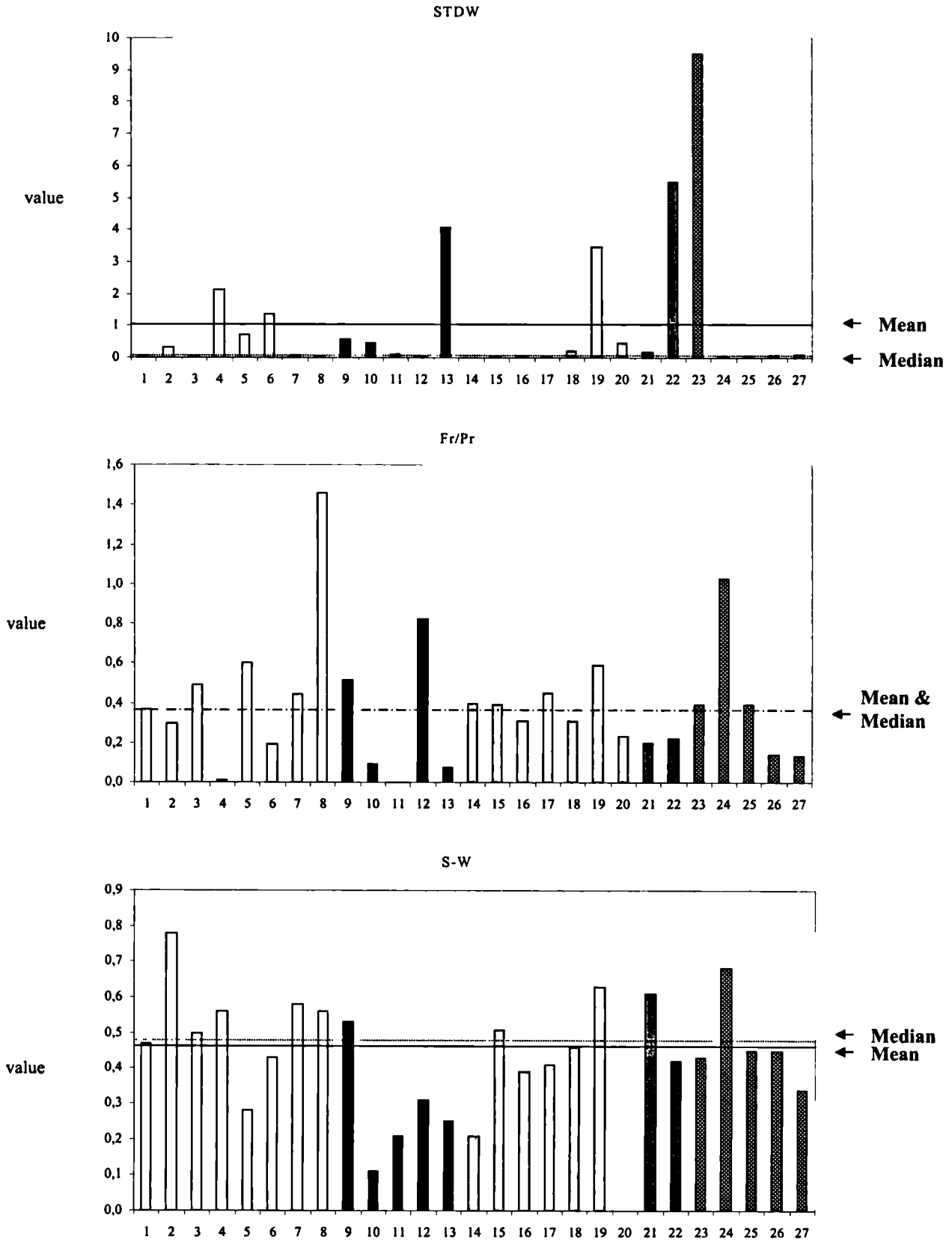


Fig. 4.39 Çatalhöyük-North Area: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) measurements for all sampled contexts of Building 1

□ Phase B1.2, ■ Phase B1.3, ◻ Phase B1.4, ▒ Phase B1.5, ▨ B1.External

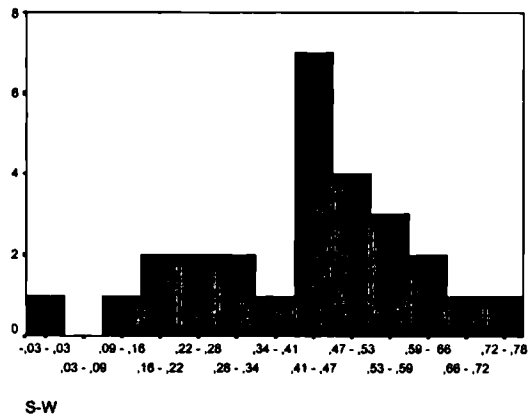
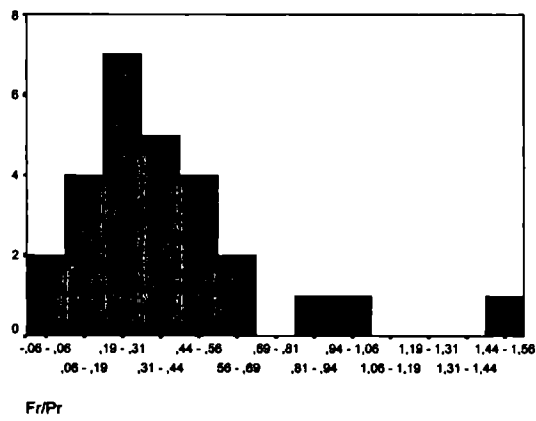
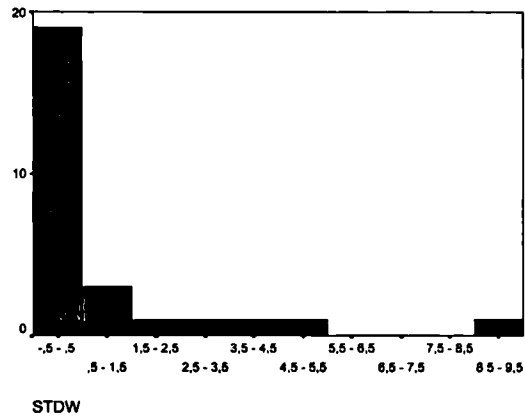


Fig. 4.40 Çatalhöyük-North Area: Bar charts showing frequency distribution of density (top), Fr/Pr (middle) and diversity (bottom) values for all sampled contexts of Building 1

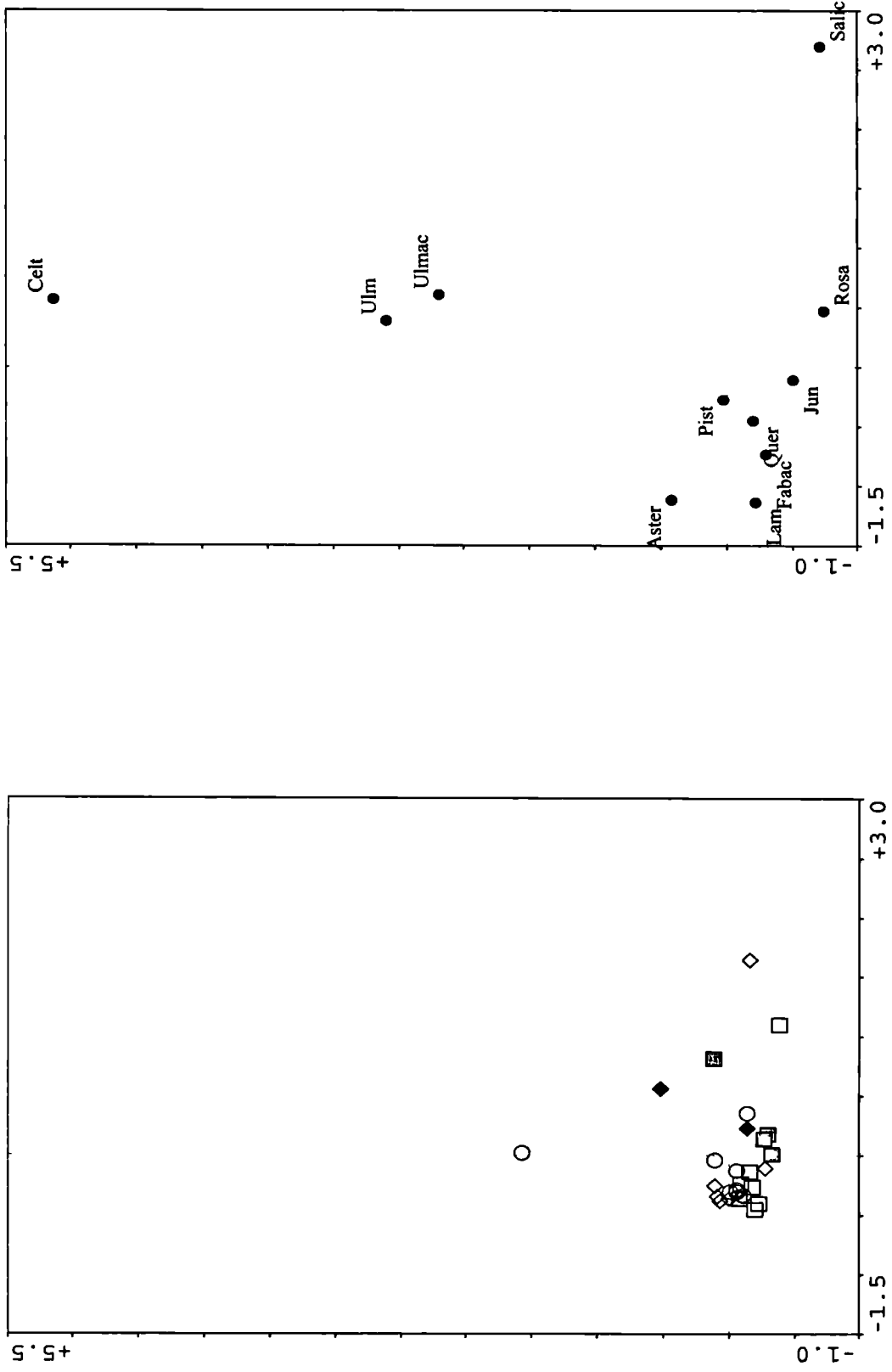


Fig. 4.41 Çatalhöyük-North Area: Correspondence analysis scatterplots (left sample plot, right species plot) of all sampled contexts from building 1
 ○ phase B1.2, ◻ phase B1.3, ◻ phase B1.4, ◆ phase B1.5A-2, ◇ phase B1.E

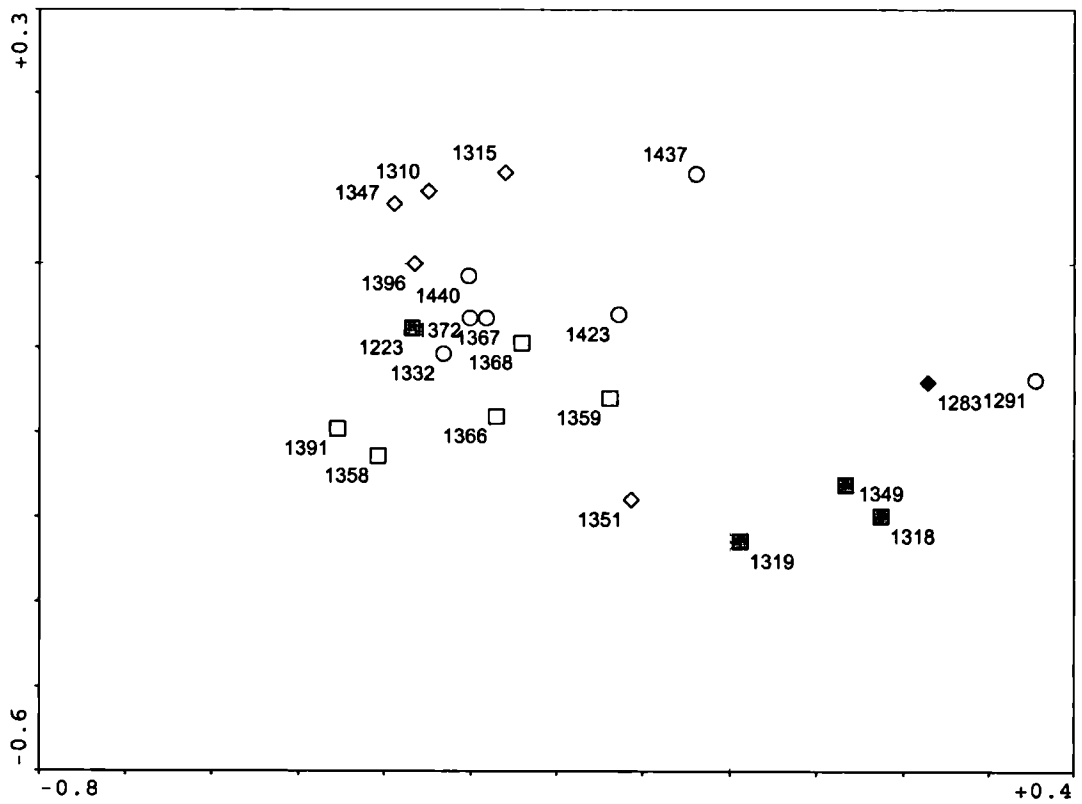
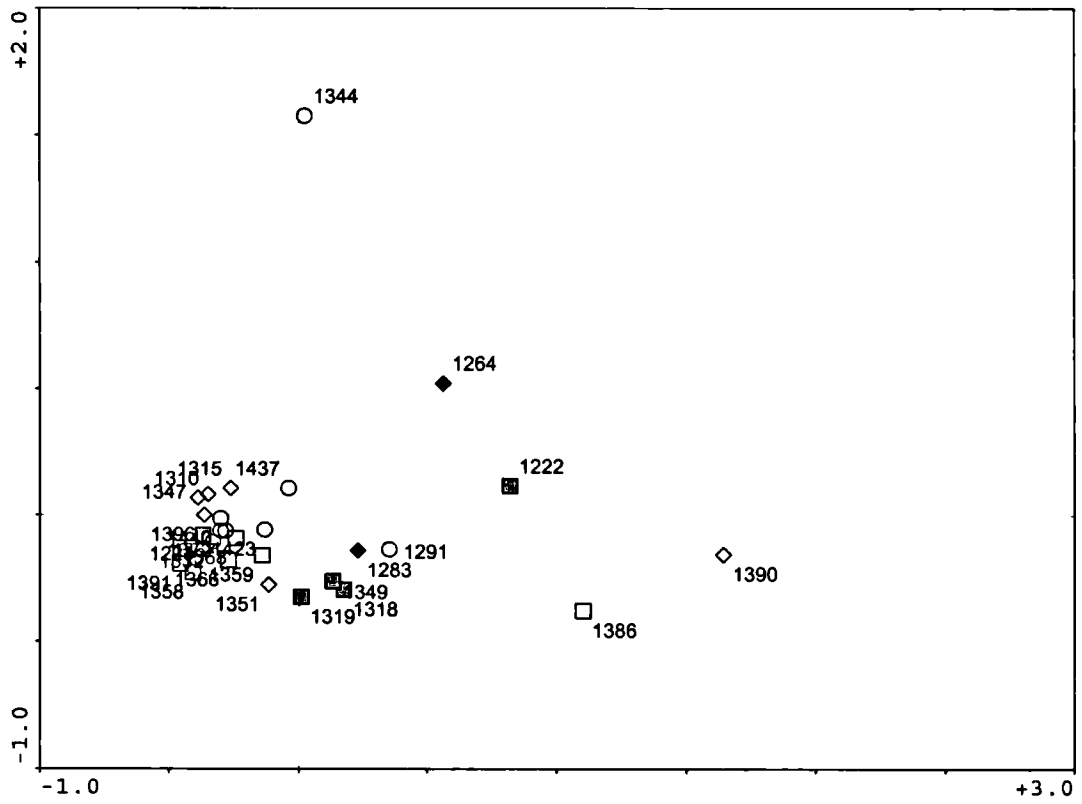


Fig. 4.42 Catalhöyük-North Area: Detail of correspondence analysis scatterplots for all sampled contexts of building 1 (see Fig. 4.41)

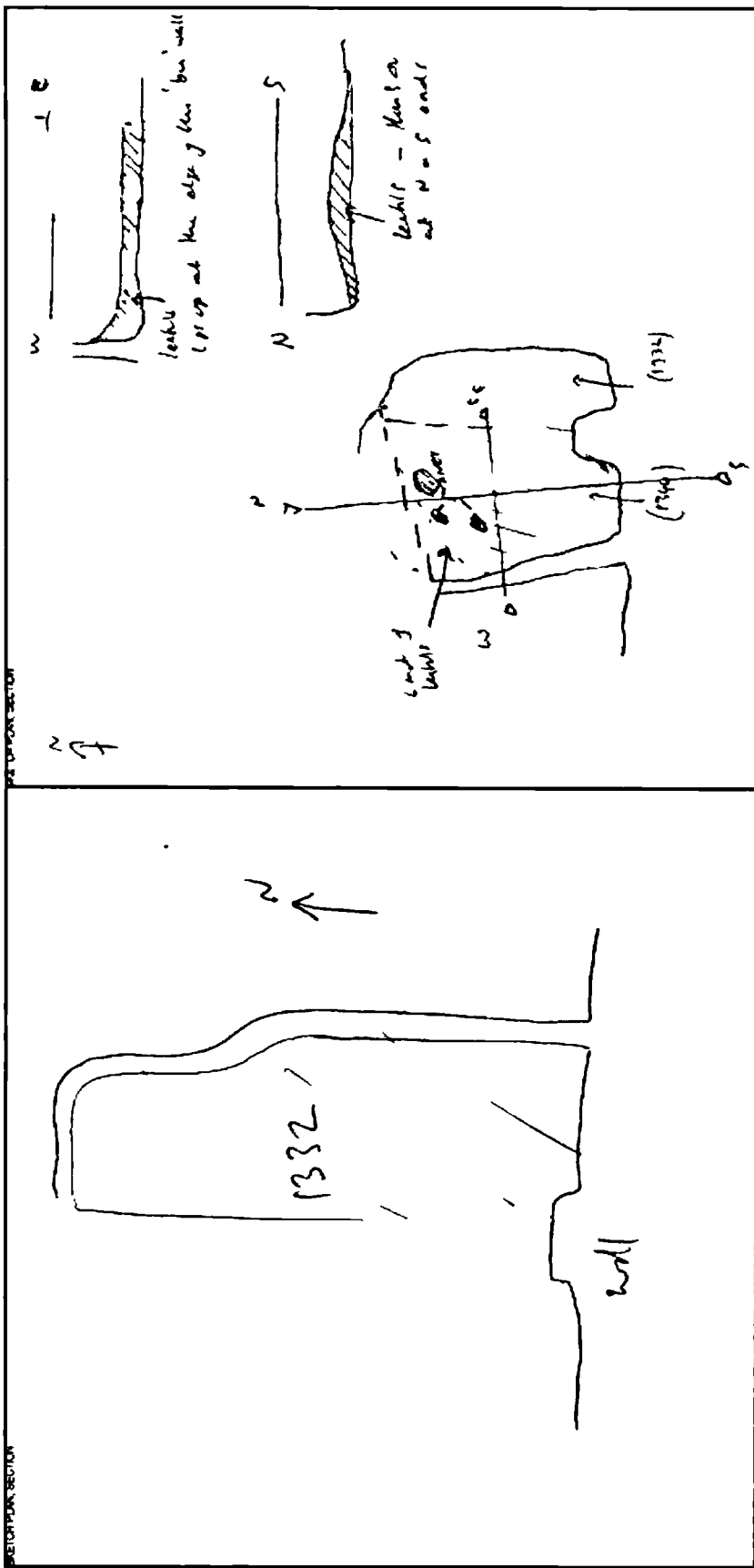


Fig. 4.43 Çatalhöyük-North Area: Excavators' sketches of units 1332 (left), lying next to 1344 (burnt layer; right) in bin 215 (Building 1 space 71-phase B1.2C)

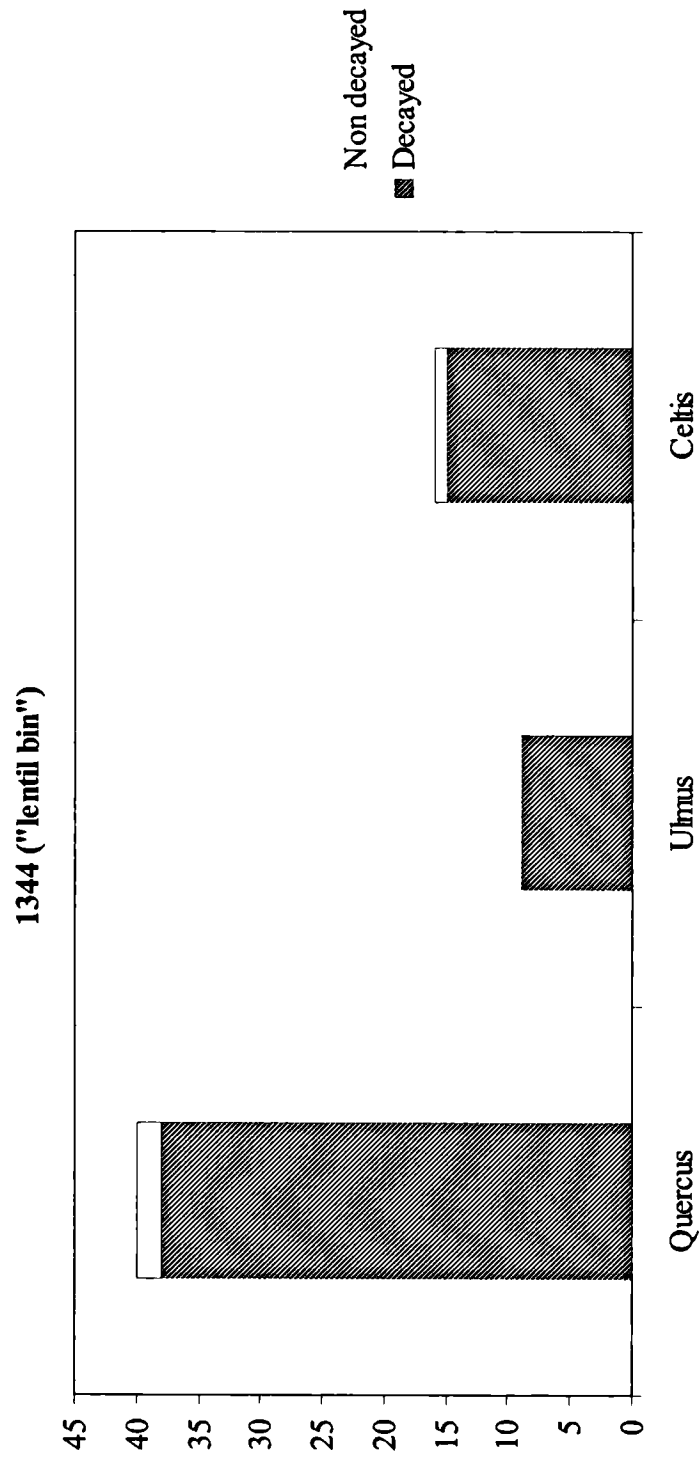


Fig. 4.44 Çatalhöyük-North Area: Proportions of decayed and non-decayed wood (4mm fraction) amongst the three major taxa (*Quercus*, *Ulmus*, *Celtis*) present in unit 1344 ("lentil bin")

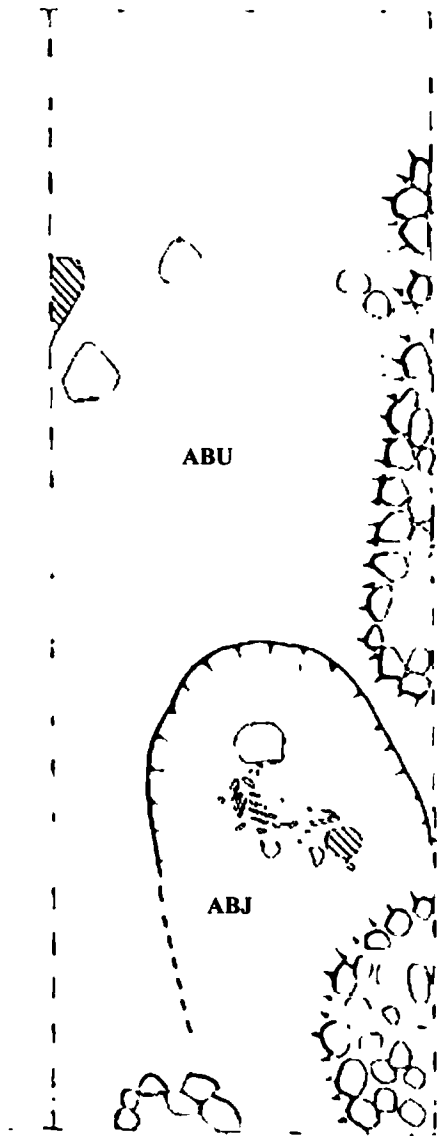


Fig. 4.45 Pınarbaşı: General plan of Site A showing the early Neolithic loci

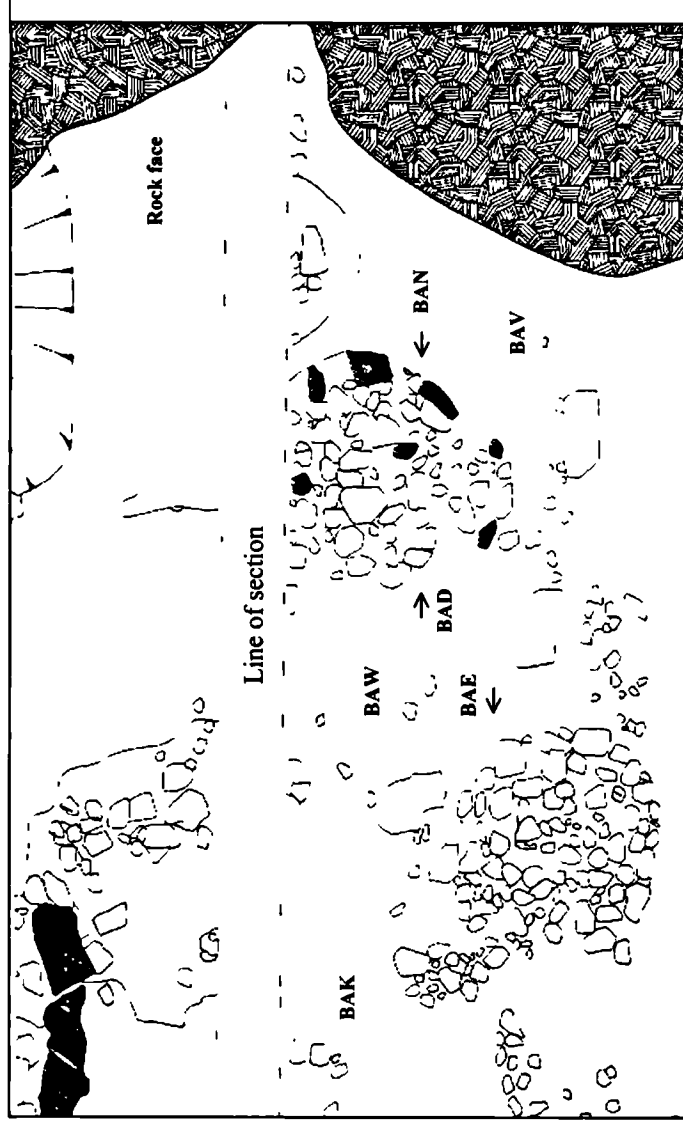


Fig. 4.46 Pınarbaşı: Plan of Site B showing the location of western stone cluster (filled by BAE, BAJ) and eastern stone cluster (lined by upright stones BAN, and filled by BAD, BAI, BAM). BAV and BAK are grey stony layers, and BAW (below BAT) is part of the upper infill of the Late Neolithic curvilinear structure (see also section in Fig. 4.47; modified after Watkins 1996)

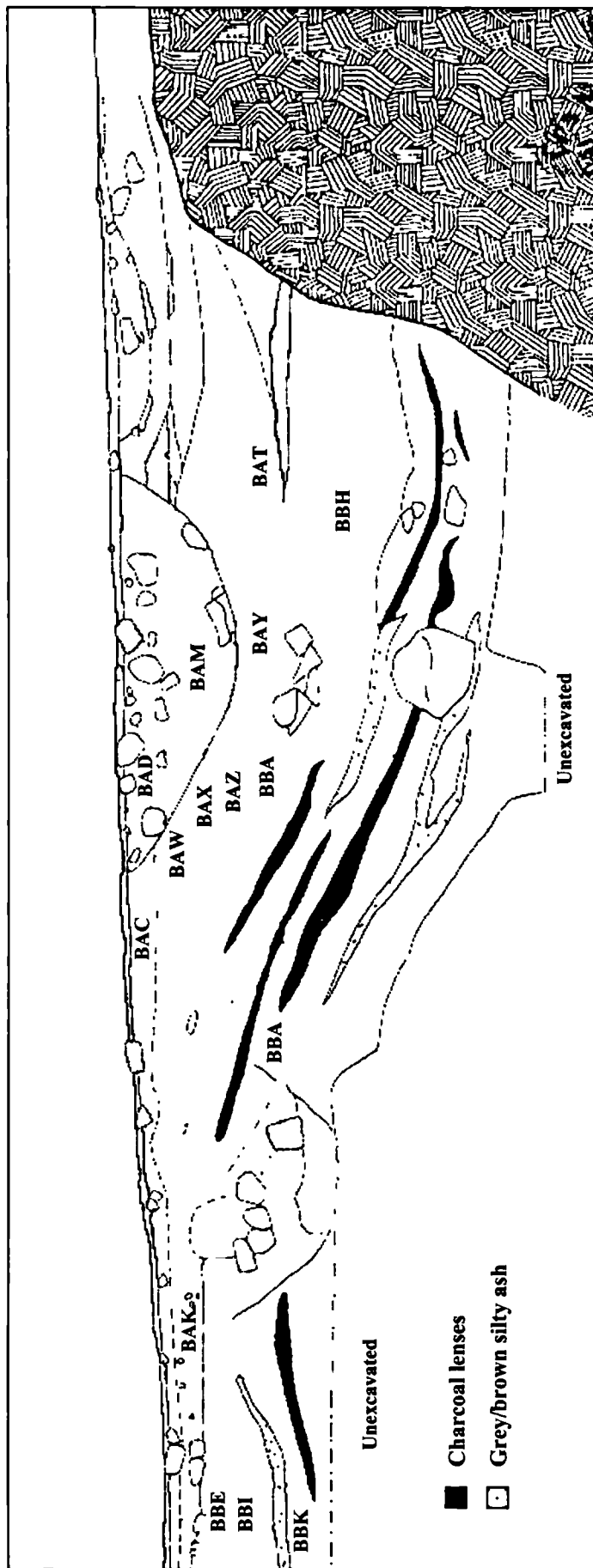


Fig. 4.47 Pınarbaşı: Section showing sampled deposits in Site B (modified after Watkins 1996)

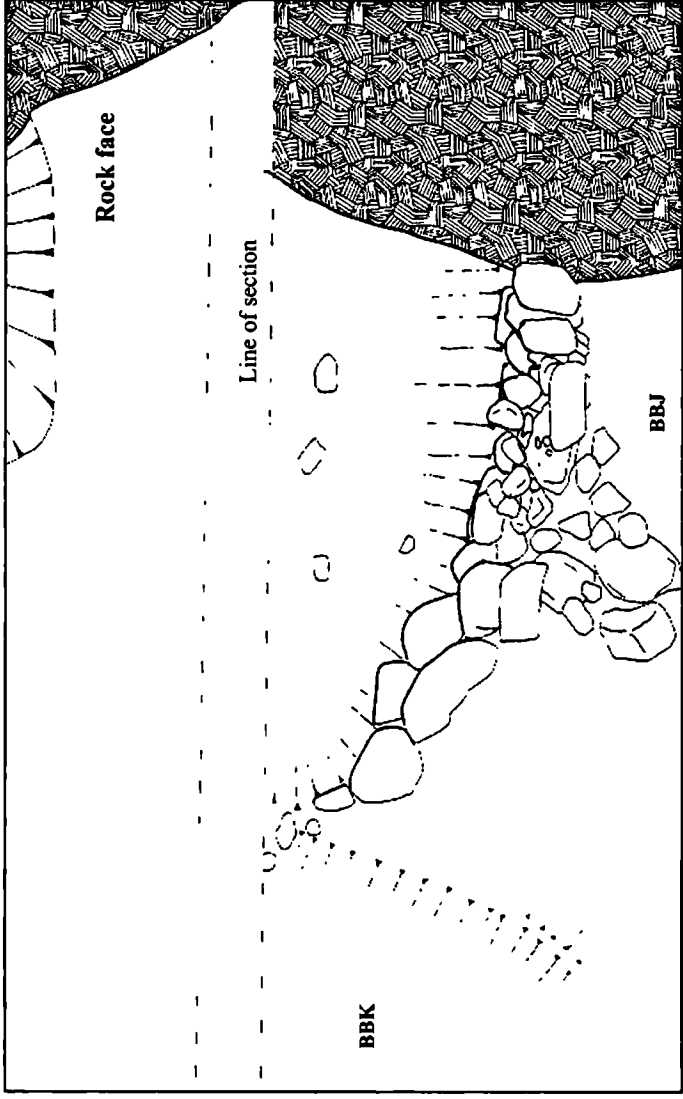


Fig. 4.48 Pınarbaşı: Plan of Site B showing the location of some of the earliest excavated deposits outside the curvilinear structure (see also section in Fig. 4.47; modified after Watkins 1996)

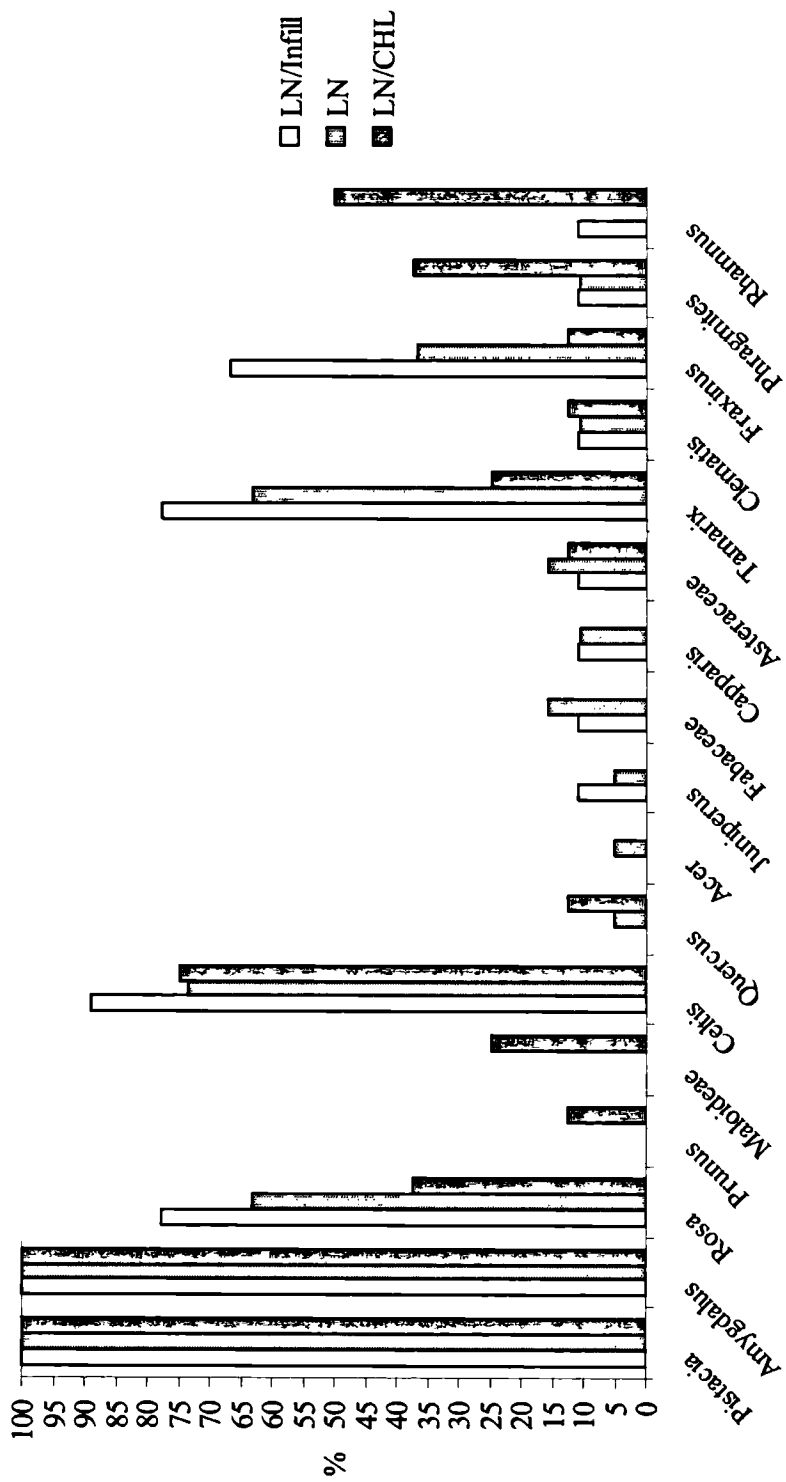


Fig. 4.49 Pınarbaşı: Bar chart showing percentage presence scores of all taxa occurring in Neolithic and Chalcolithic contexts from Site B

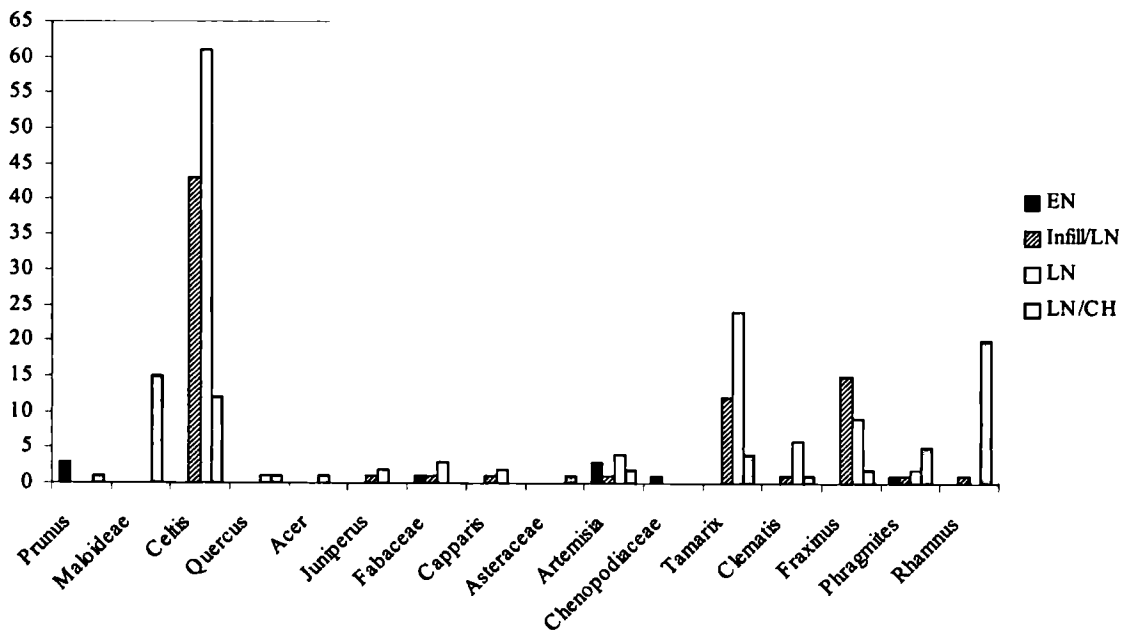
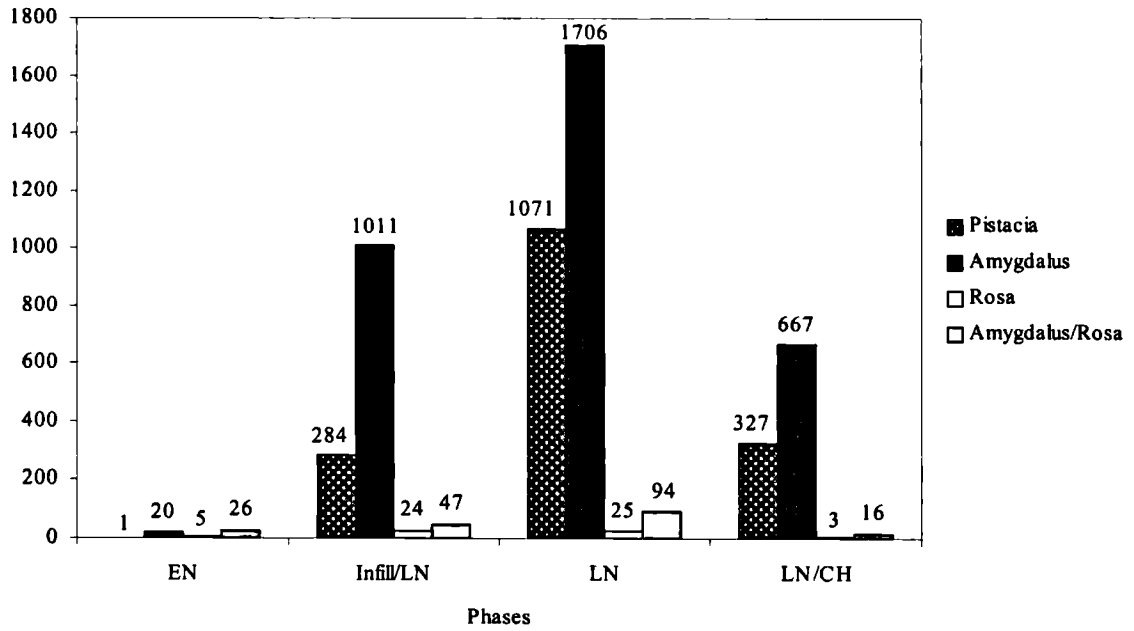


Fig. 4.50a Pınarbaşı: Bar charts showing summary absolute fragment counts for Site A & Site B

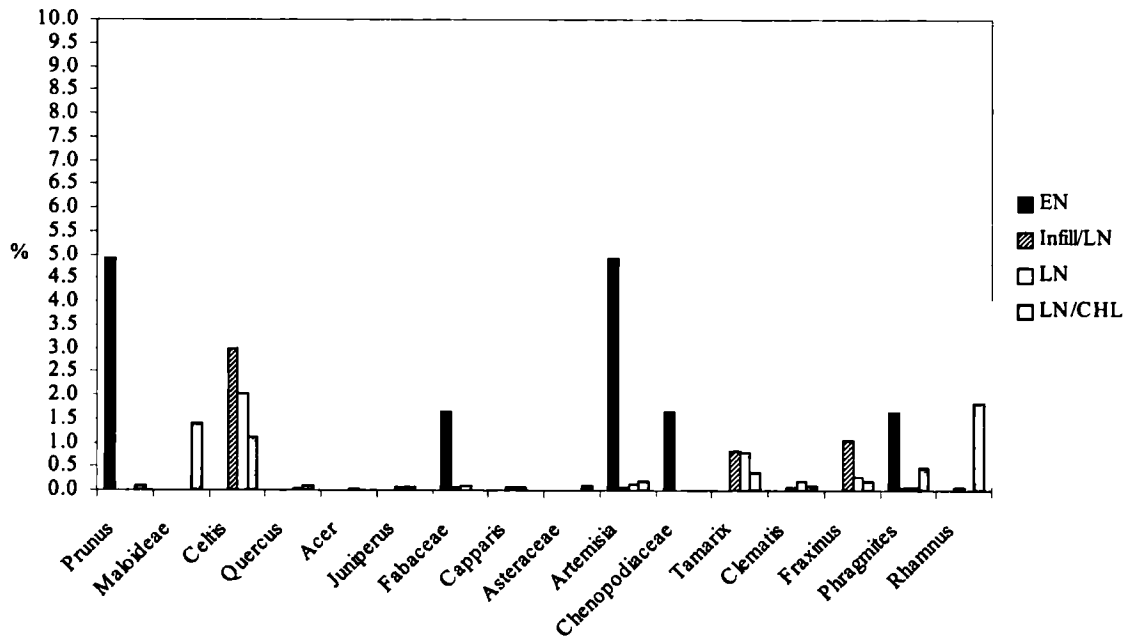
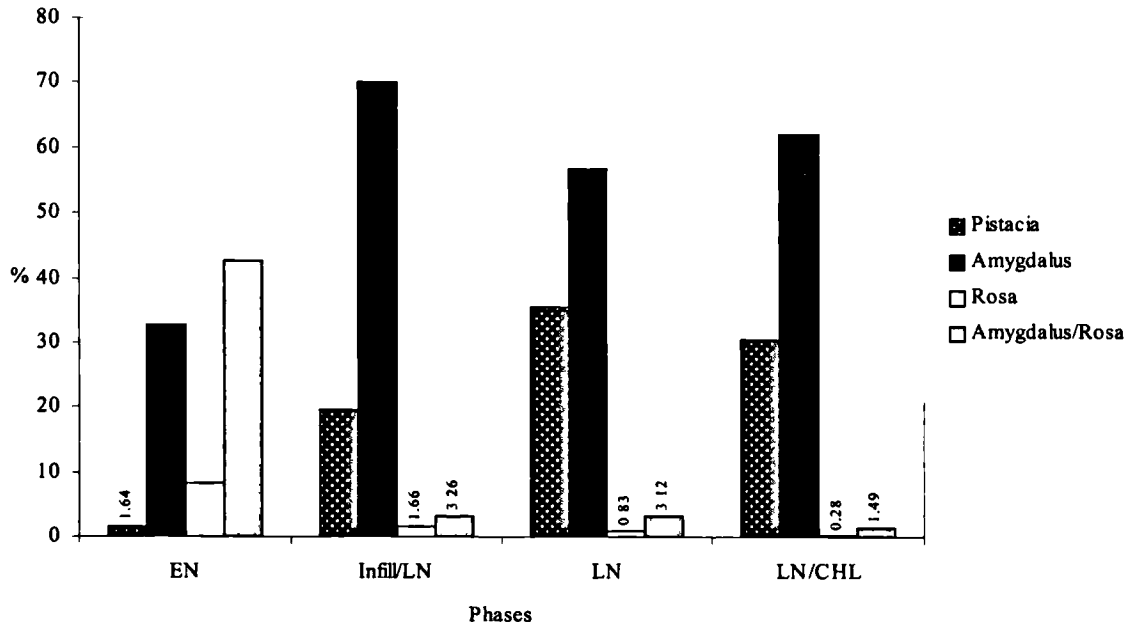


Fig. 4.50b Pınarbaşı: Bar charts showing summary percentage fragment counts for Site A & Site B

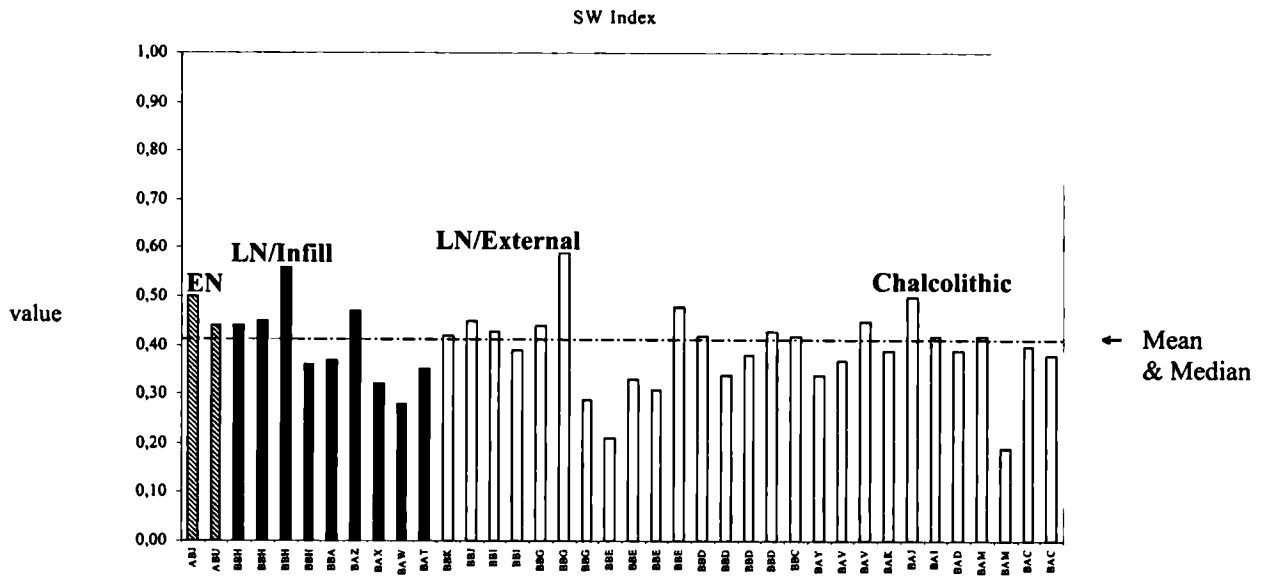
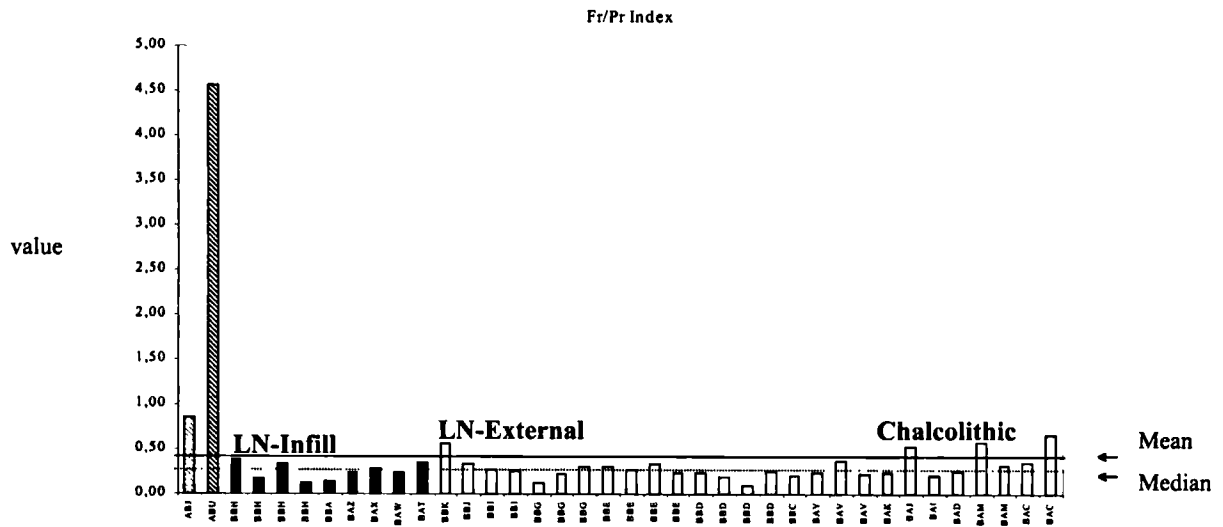
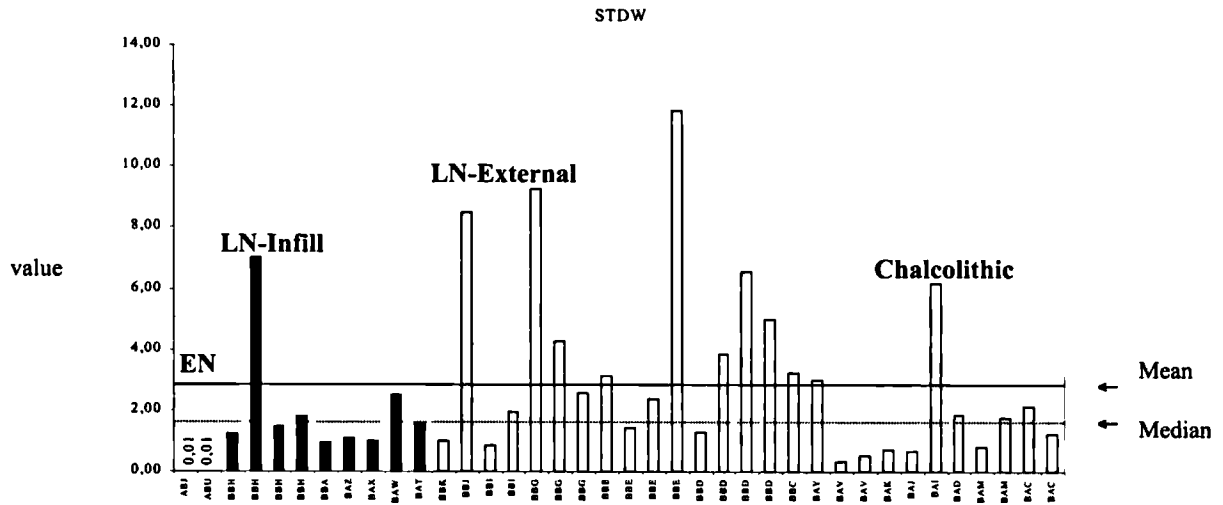
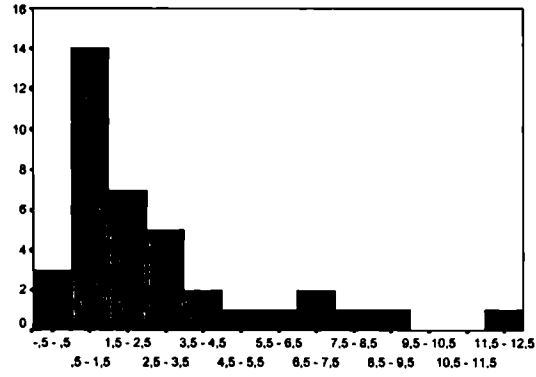
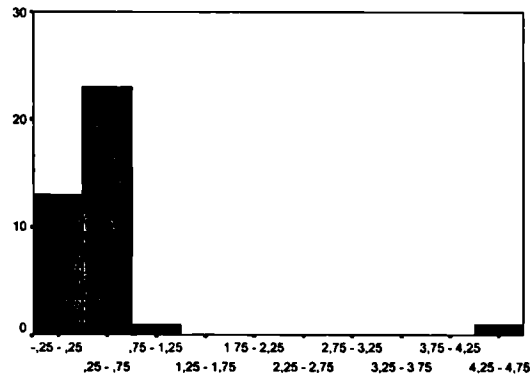


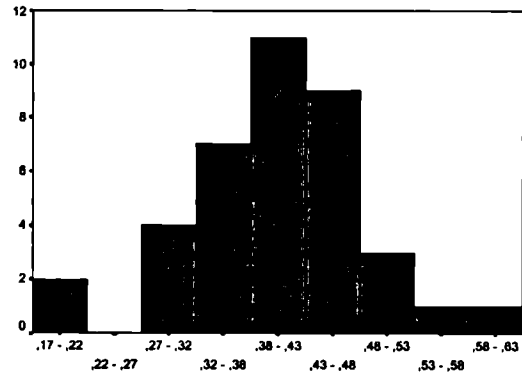
Fig. 4.51 Pınarbaşı: Bar charts showing values of density (top), Fr/Pr (middle) and diversity (bottom) for all sampled contexts from Site A & Site B



STDW



Fr/Pr



SW

Fig. 4.52 Pınarbaşı: Bar charts showing frequency distributions of density (top), Fr/Pr (middle) and diversity (bottom) for all sampled contexts from Site A and Site B

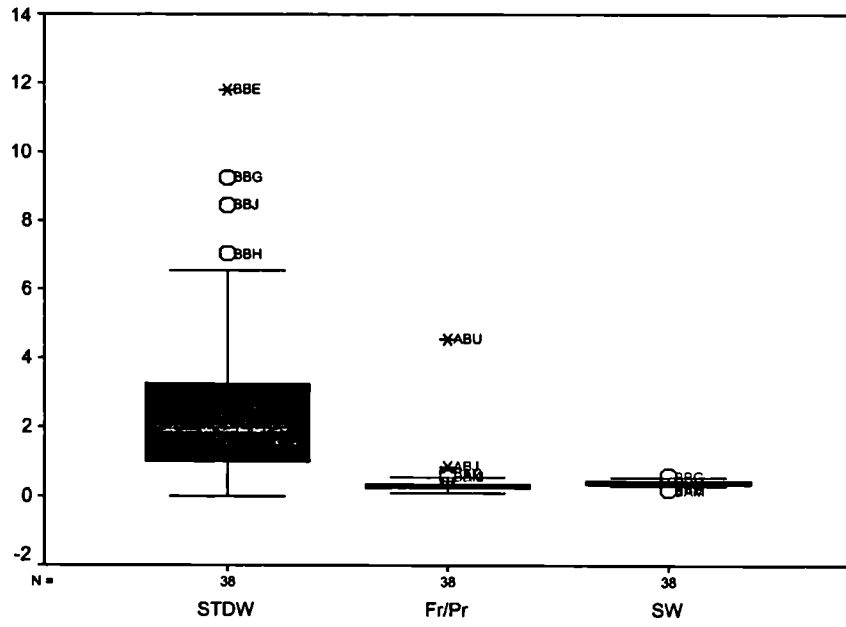


Fig. 4.53. Pınarbaşı: Box plots of density, Fr/Pr and diversity values for all loci from Site A and Site B (no. of samples 38)

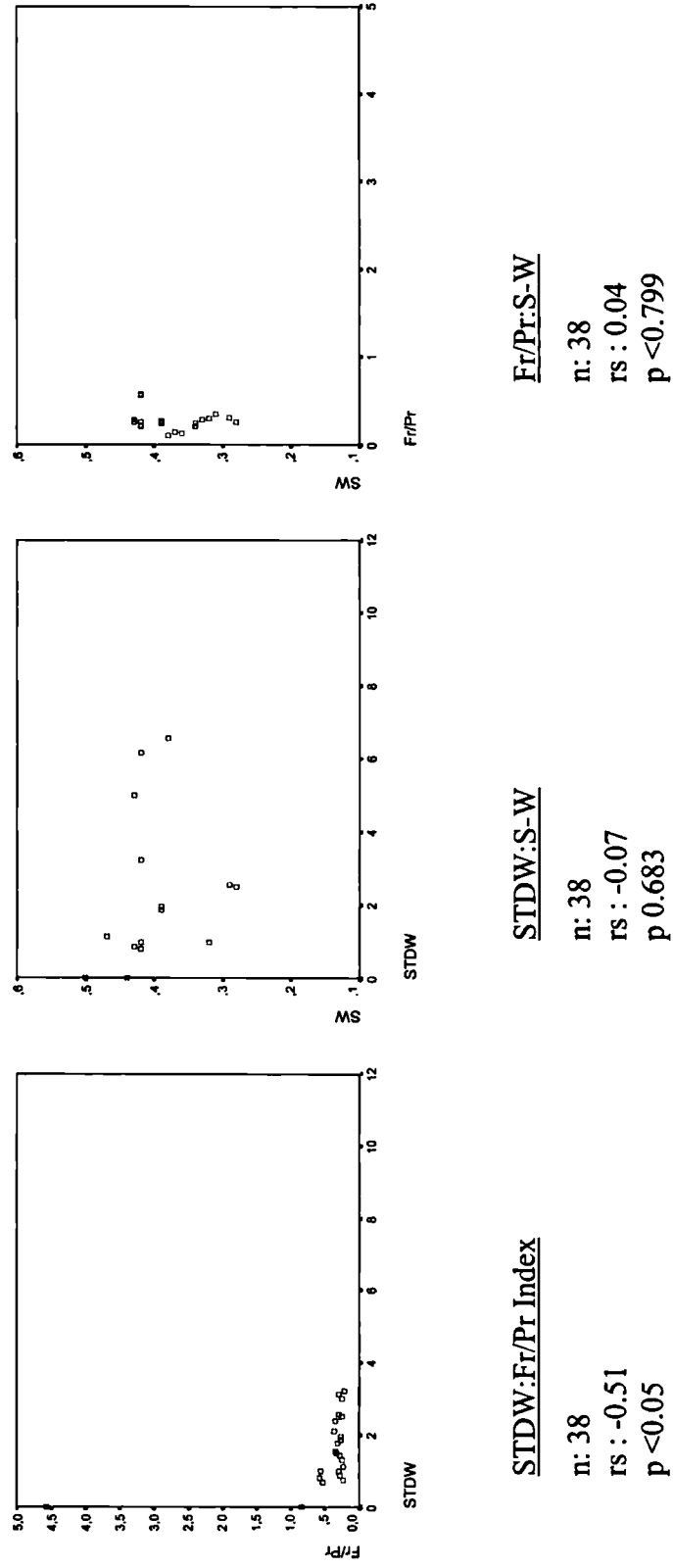


Fig. 4.54 Pınarbaşı: Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) of density (STDW), fragmentation/preservation (Fr/Pr index) and diversity (S-W index) values of all loci from Site A and Site B

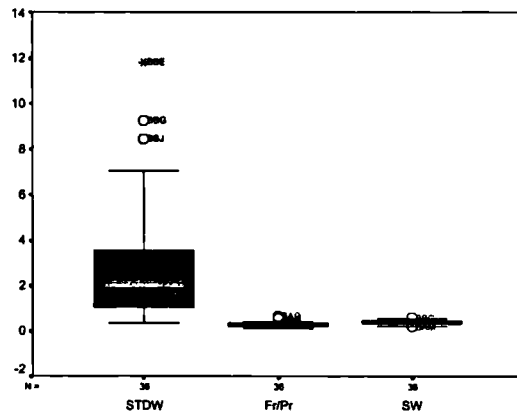


Fig. 4.56 Pınarbaşı: Box plots of density, Fr/Pr and diversity values for all loci from Site B (no. Of samples 36; *far outliers, O near outliers)

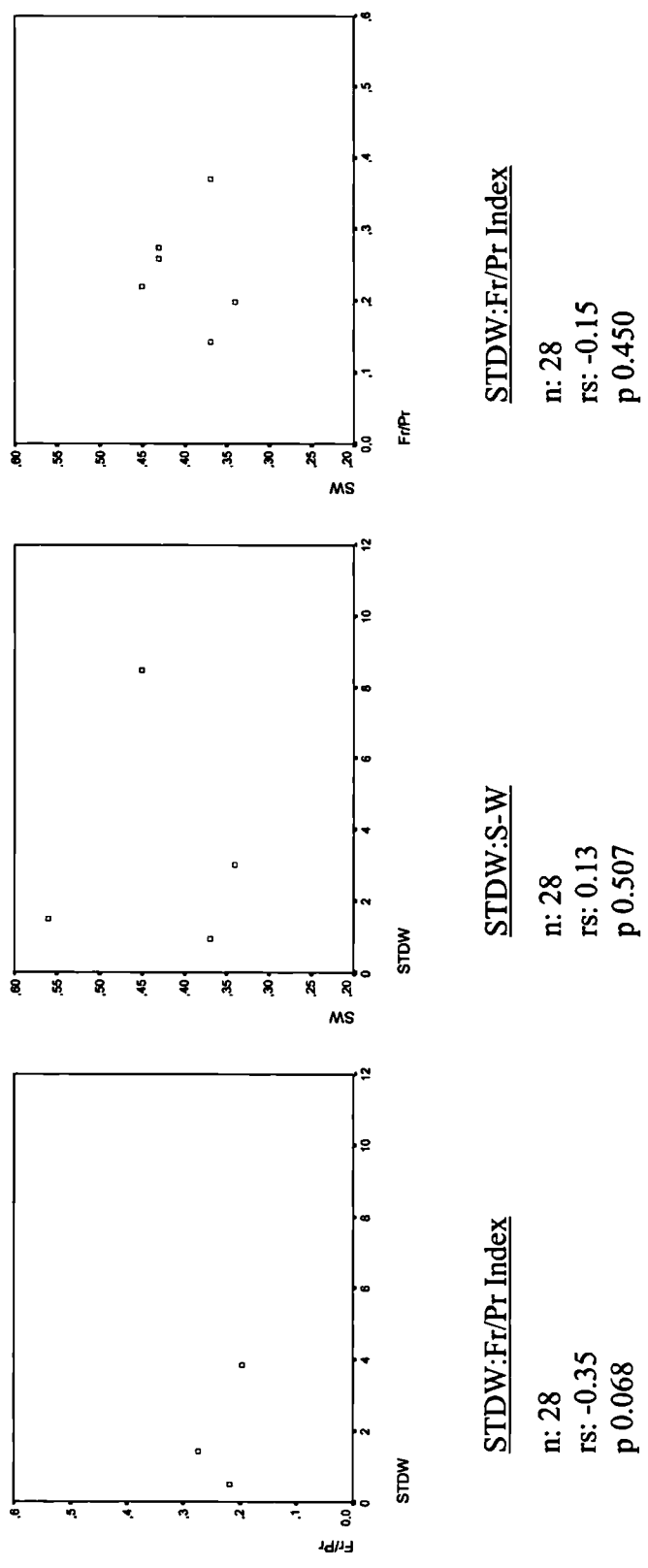


Fig. 4.57 Pınarbaşı: Scatterplots and correlation statistics (Spearman's Rank Correlation Coefficient) of density (STDW), fragmentation/preservation (Fr/Pr index) and diversity (S-W index) values of all Neolithic loci from Site B

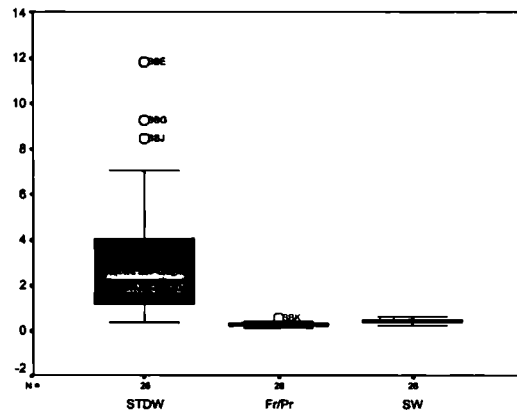


Fig. 4.58 Pınarbaşı: Box plots of density, Fr/Pr and diversity values for all Neolithic loci from Site B (no. of samples 28; *far outliers, O near outliers)

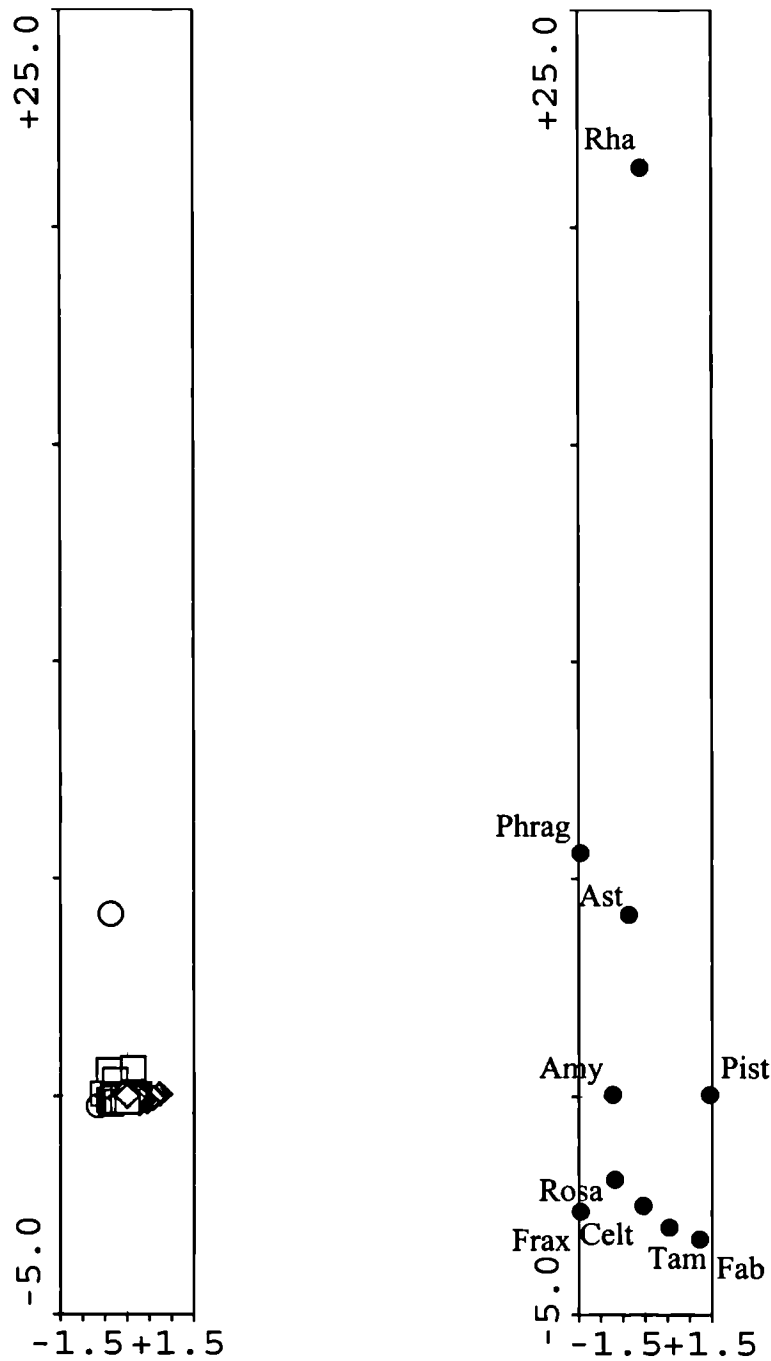


Fig. 4.59 Pınarbaşı: Correspondence analysis scatterplots (left sample plot, right species plot) of all examined contexts (Site A & B). Circles denote EN loci, white squares Chalcolithic, green LN infill and red lozenges LN external

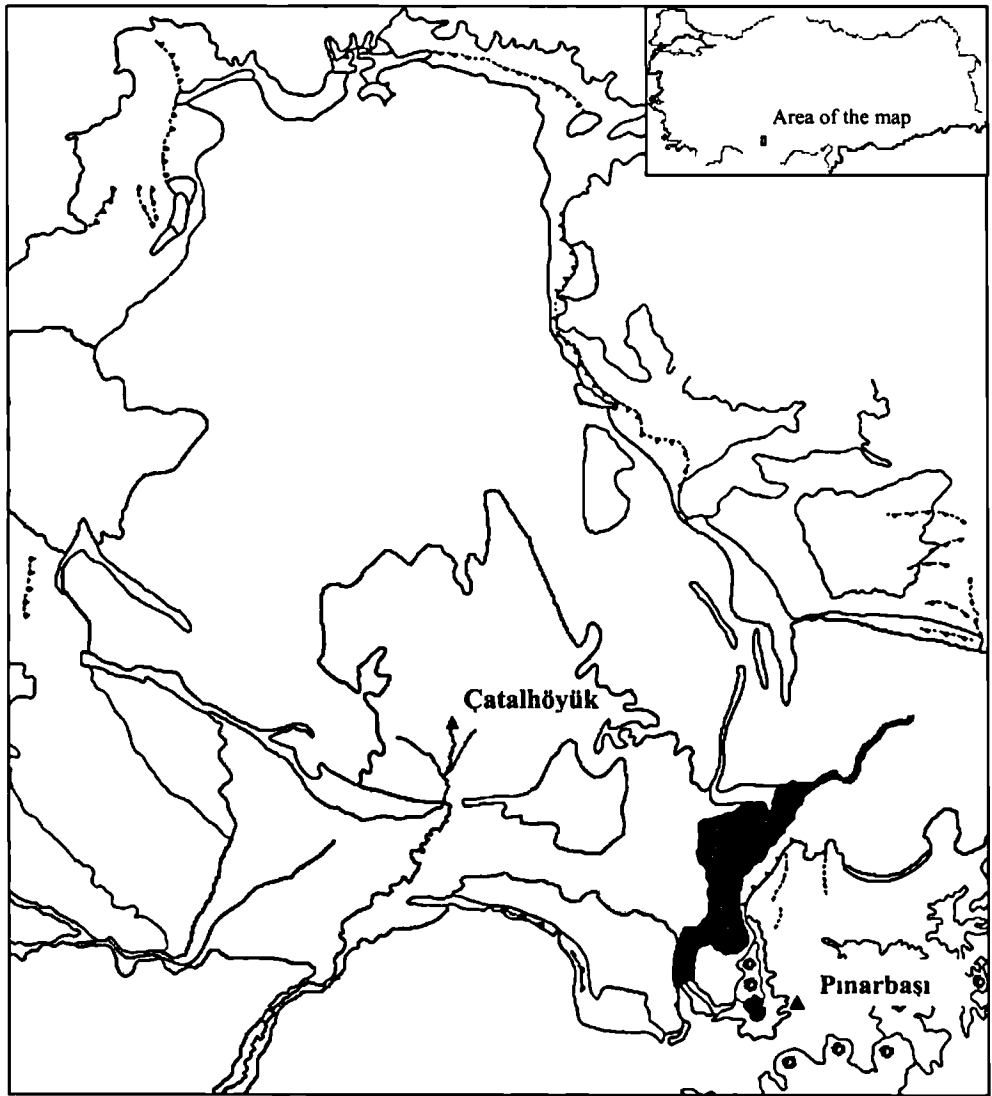


Fig. 5.1: distribution of early Holocene landforms in the Konya plain

- alluvium, ▨ sand, ▩ marl, ■ lakes, ▤ uplands,
- volcanic uplands

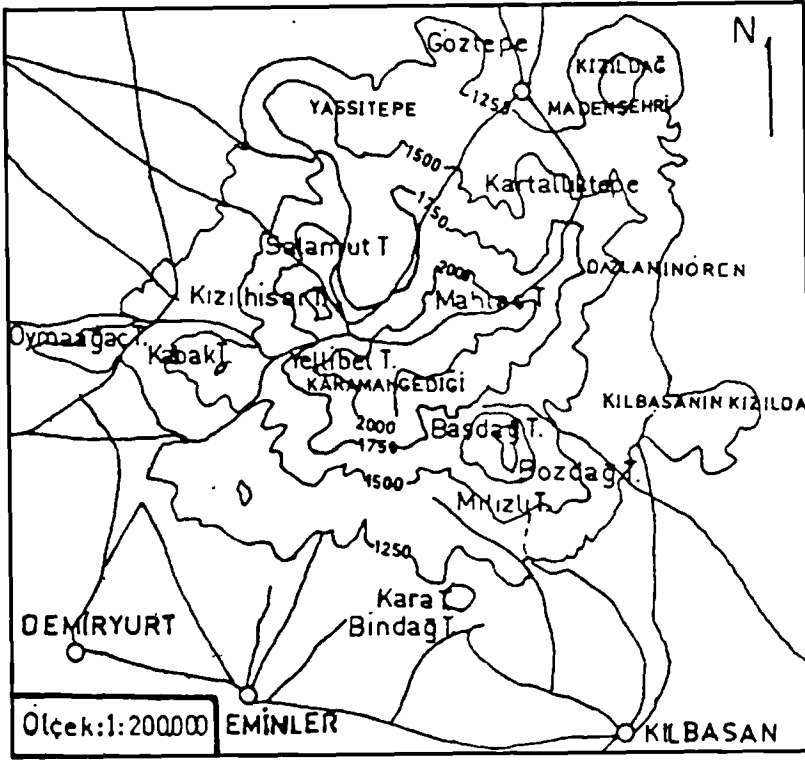


Fig. 5.2: Sketch map of eastern Karadağ (after Ocakverdi and Ünal 1991)

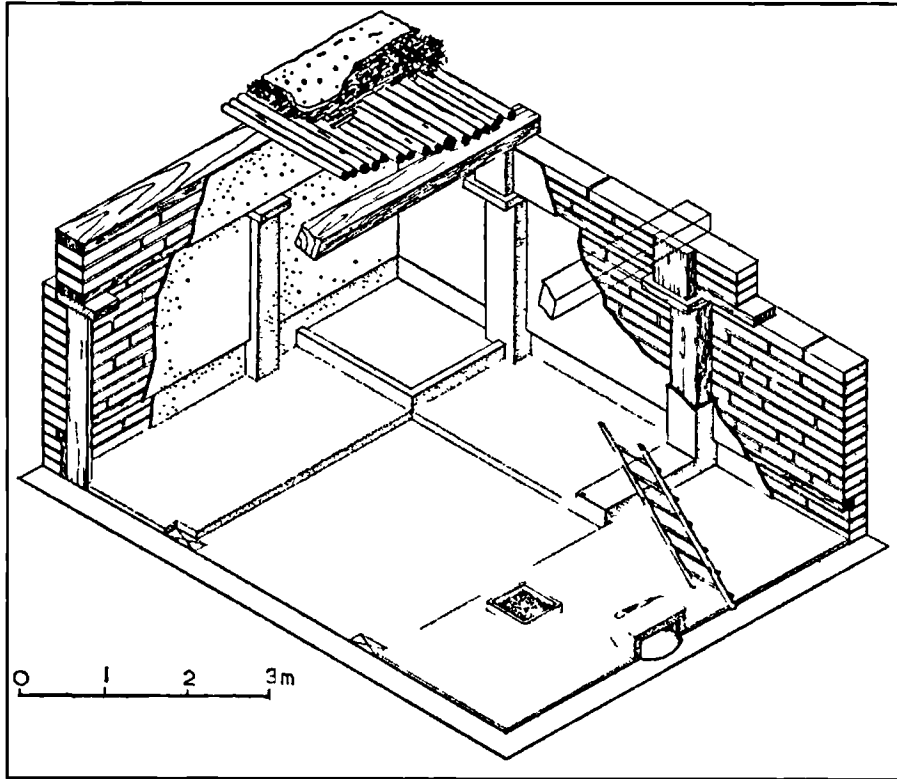


Fig. 5.3: Reconstruction of timber elements and wall frame from level VI (after Mellaart 1967)

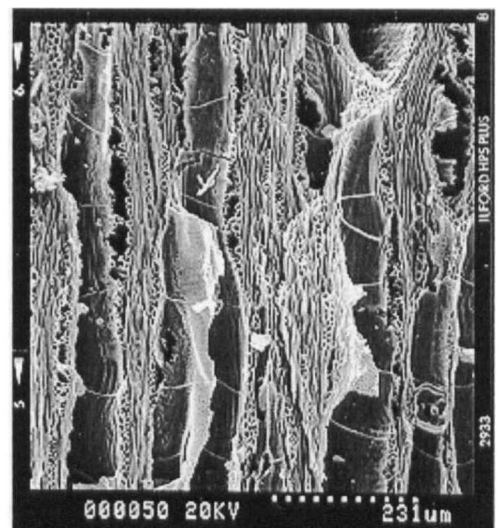
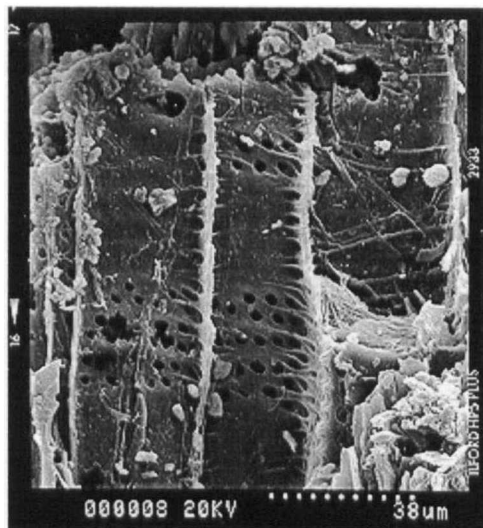
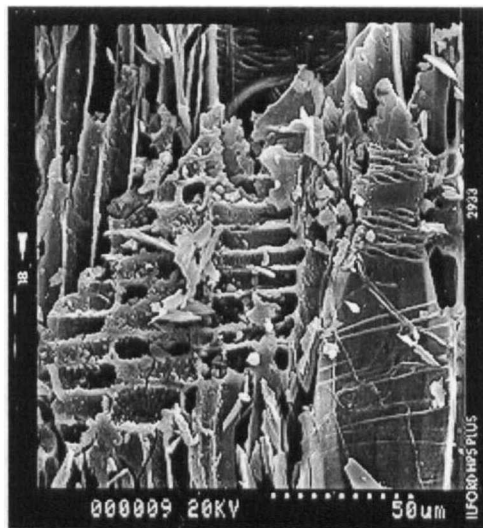
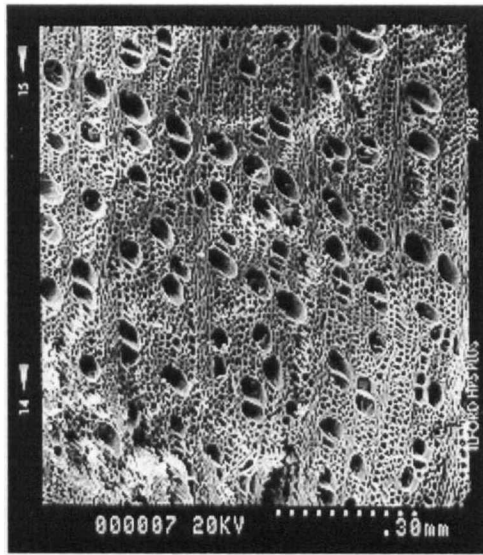


Plate 1: *Acer* (top: transverse section, middle: radial section, bottom-left: radial, bottom-right: tangential)

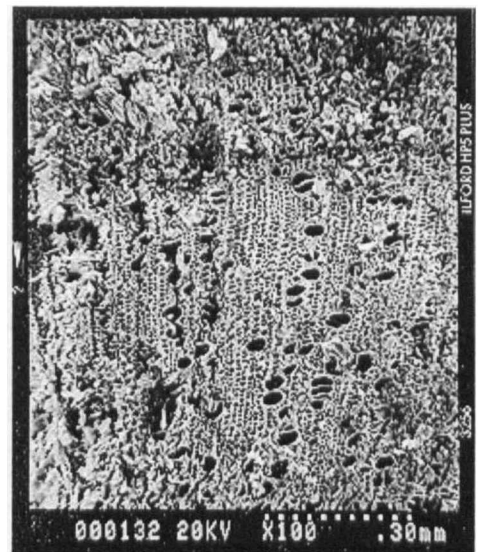
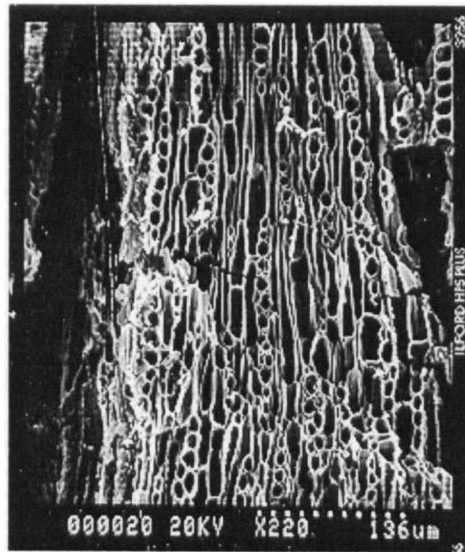
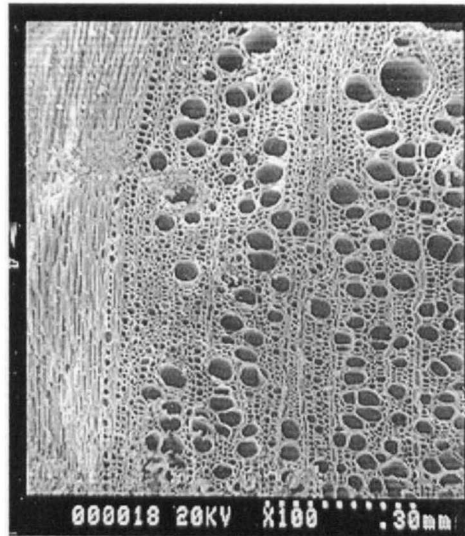


Plate 2 *Alnus* (top-left: transverse section, top-right: detail of perforation plate, bottom-left: tangential section with aggregate ray, bottom-right: transverse section)

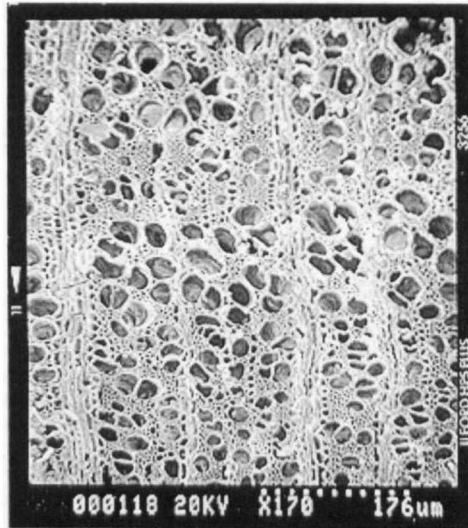
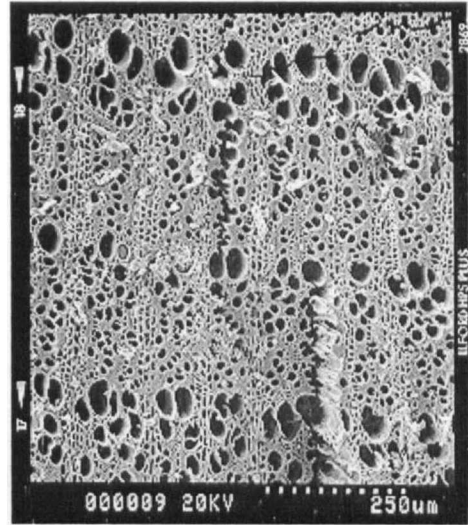
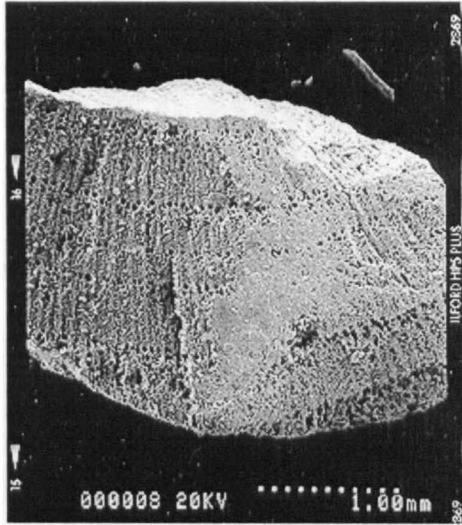


Plate 3 *Amygdalus* (top: transverse section, bottom-left: transverse section, bottom-right: tangential section)

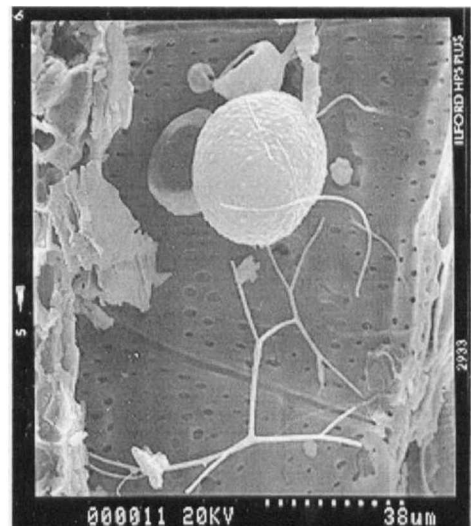
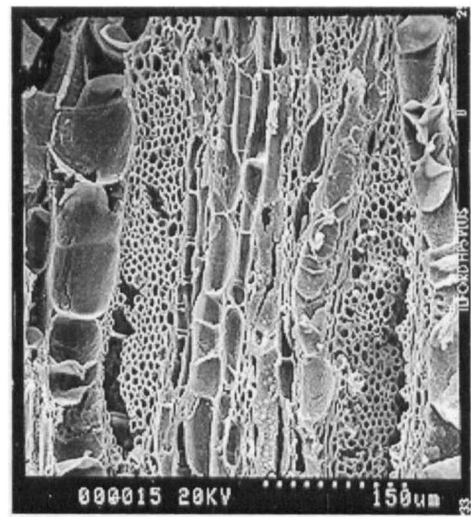
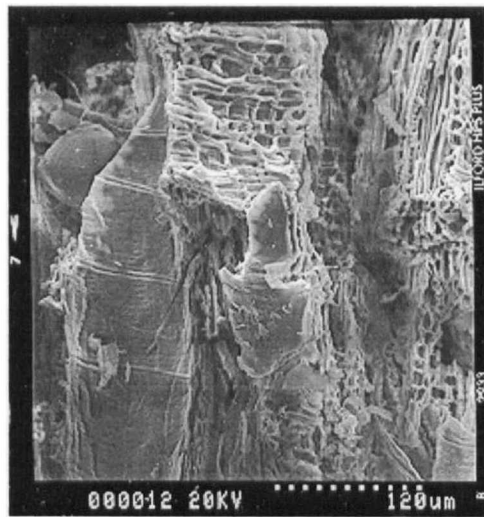
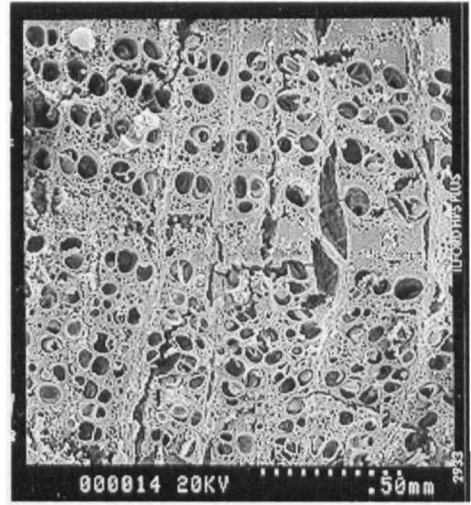
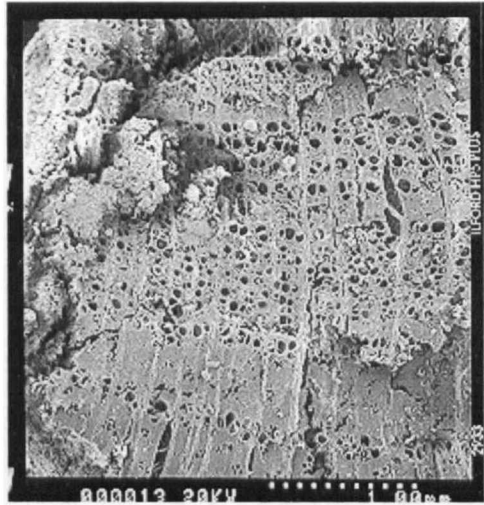


Plate 4 *Amygdalus* (top: transverse section, middle-left: radial, middle-right: tangential, bottom-left: tangential, bottom-right: detail of tangential showing hyphae and tylose-gummy deposit in vessel)

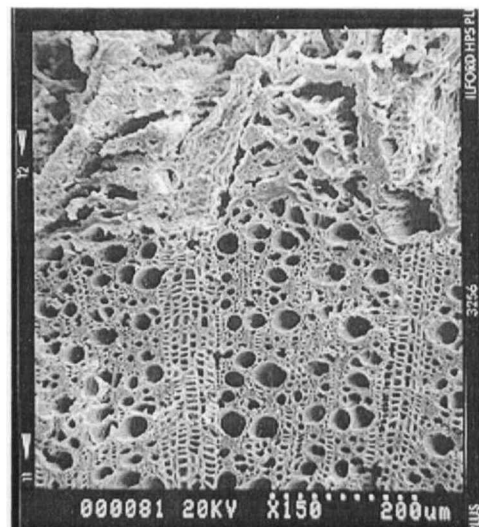
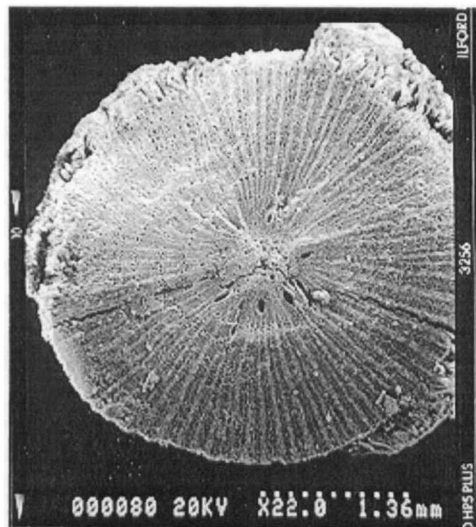
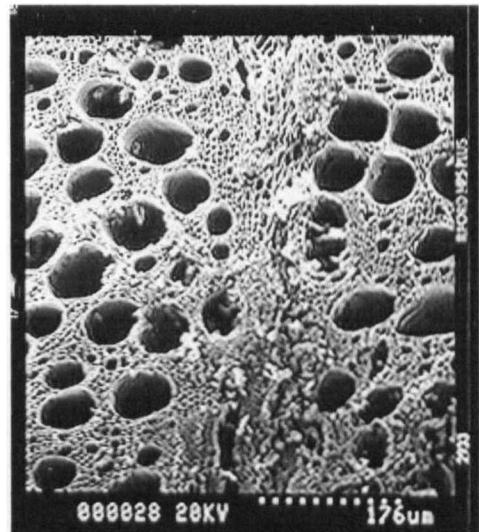
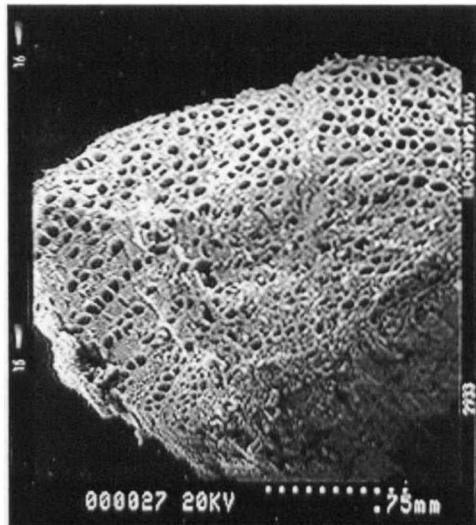


Plate 5 *Amygdalus* (all: transverse sections of twig/small round wood)

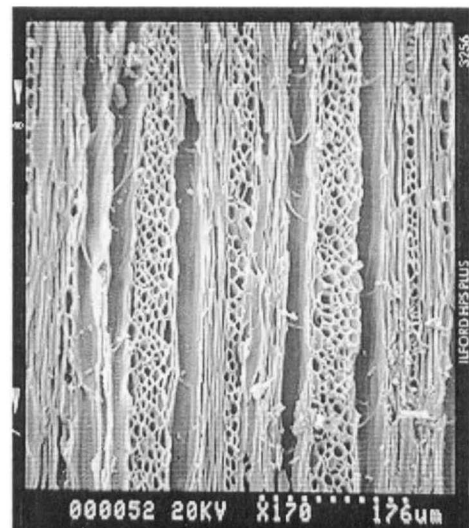
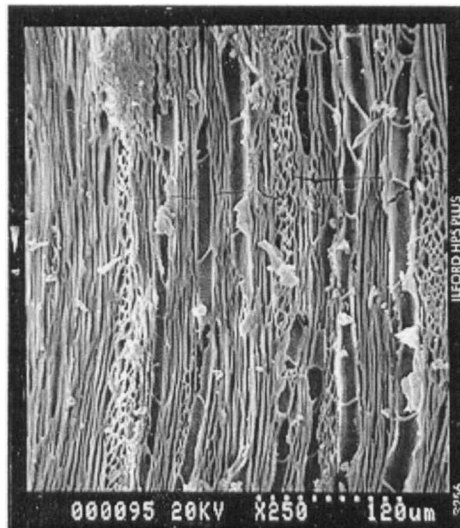
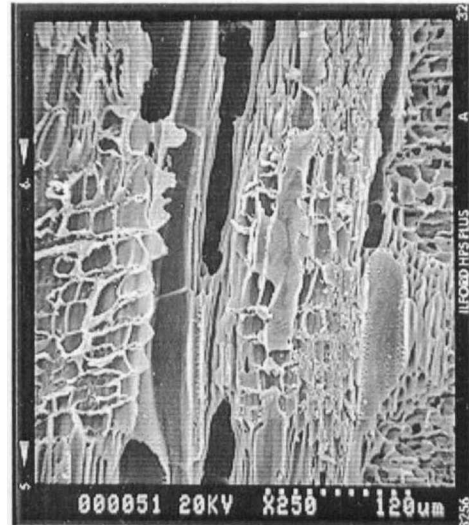
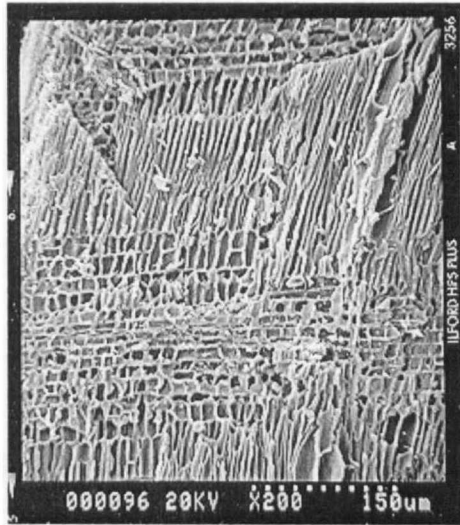
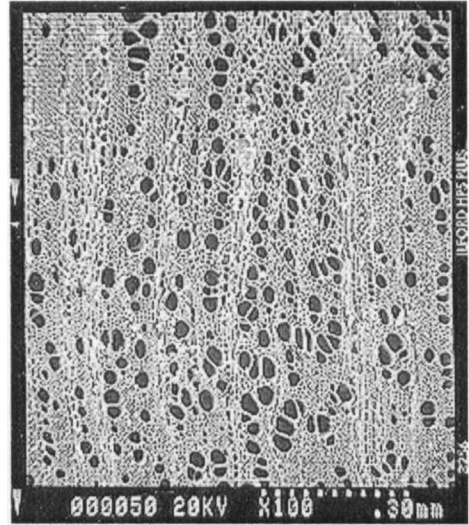
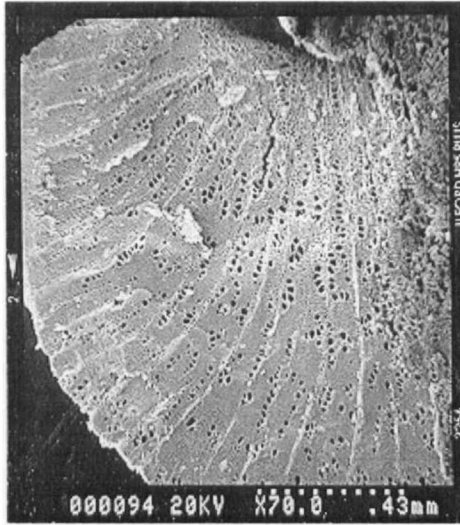


Plate 6 *Artemisia* (top: transverse, middle: radial, bottom: tangential)

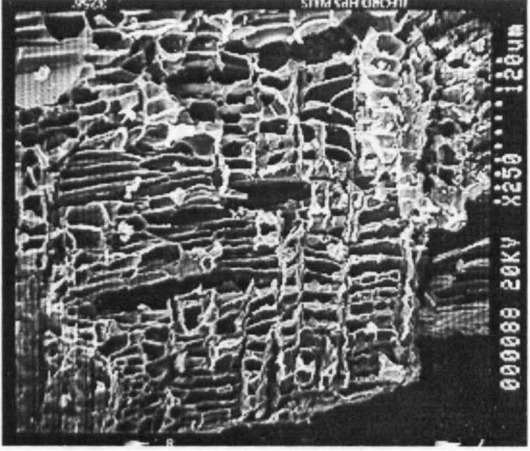
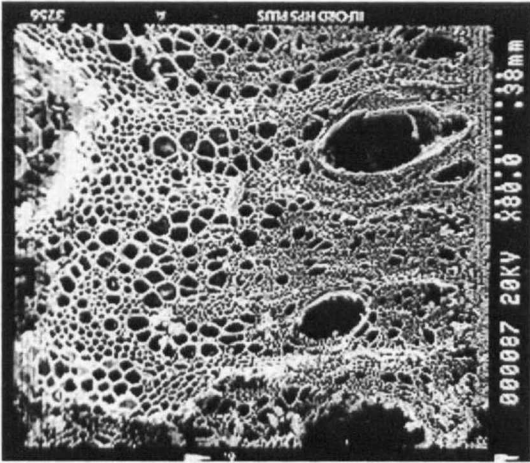


Plate 7 Asteraceae indet. (left: transverse, right: radial)

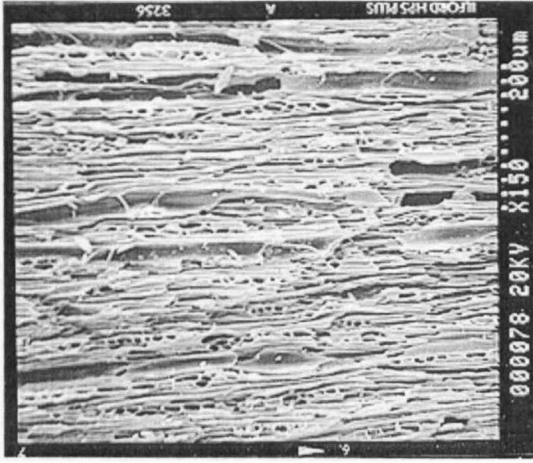


Plate 8 Asteraceae indet. (left to right: transverse, radial, tangential)

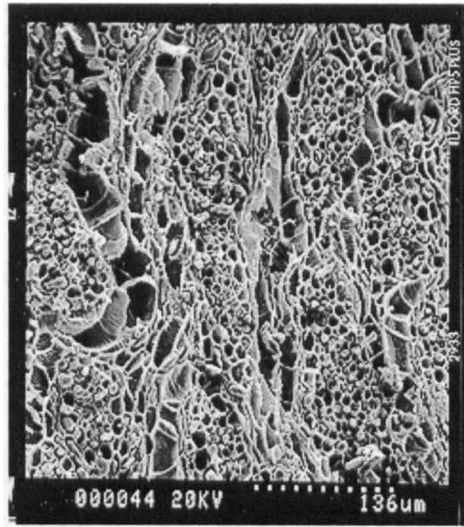
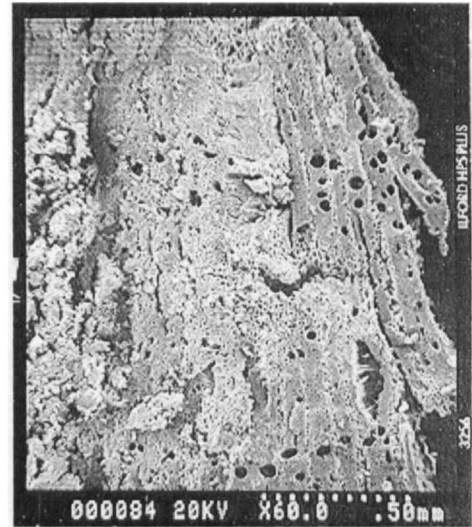
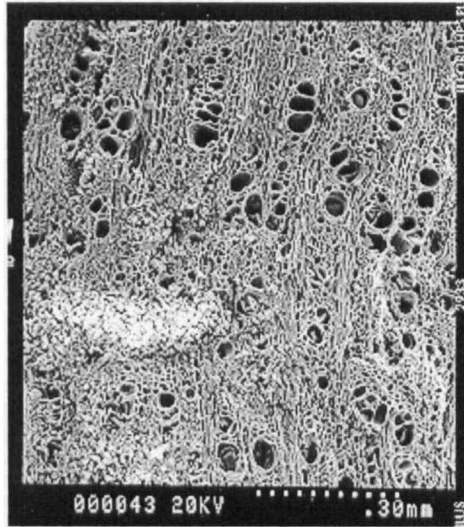


Plate 9 *Capparis* (top: transverse section, bottom-left: tangential, bottom-right: radial)

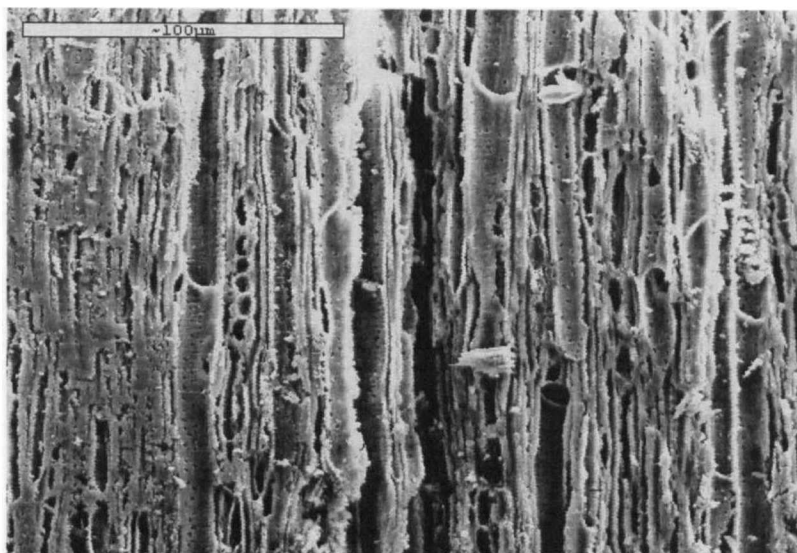
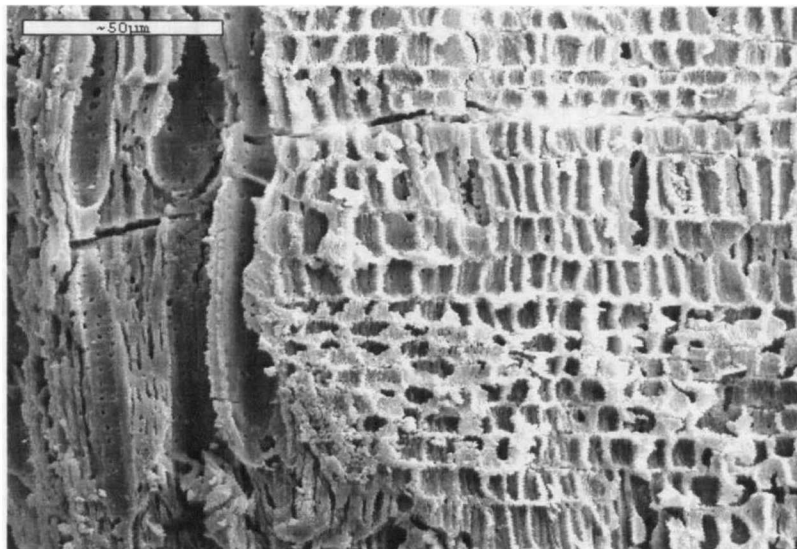
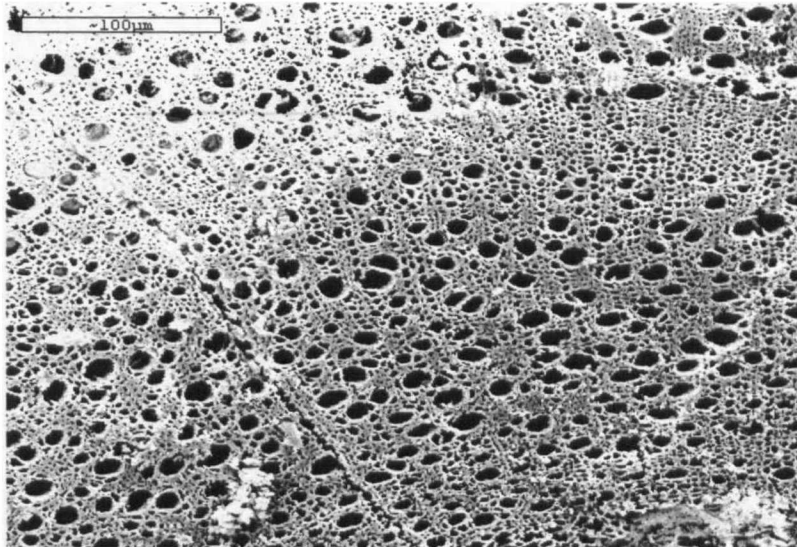
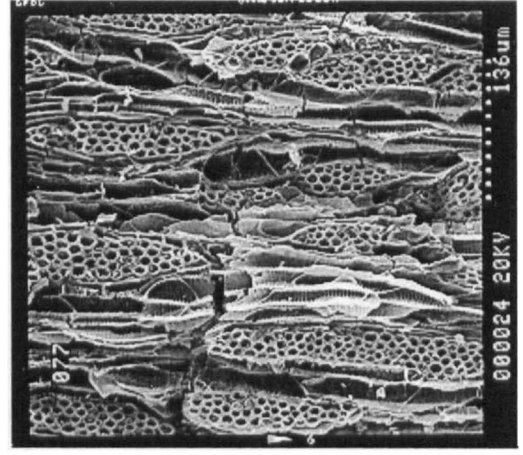
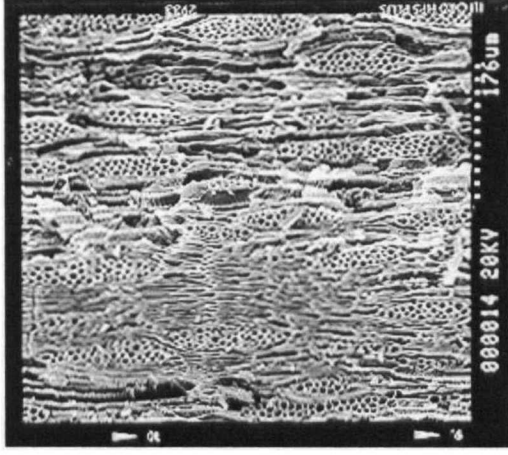
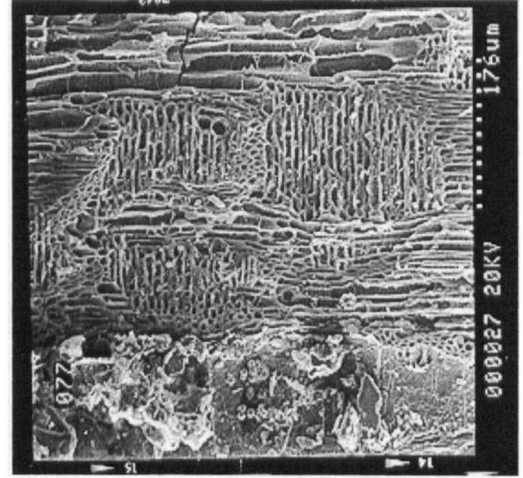


Plate 10 Caprifoliaceae (from top to bottom: transverse, radial, tangential)

Tangential



Radial



Transverse

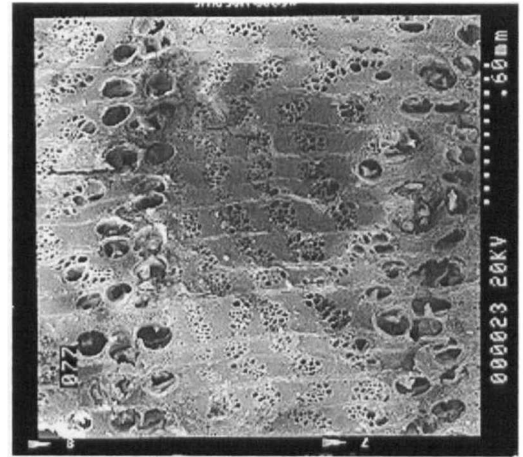
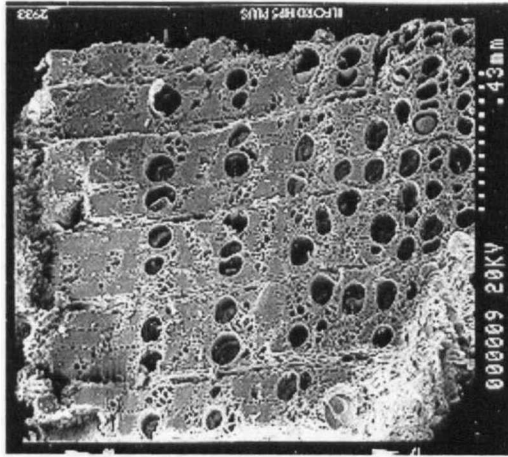


Plate 11a *Celtis*

Plate 11b *Ulmus*

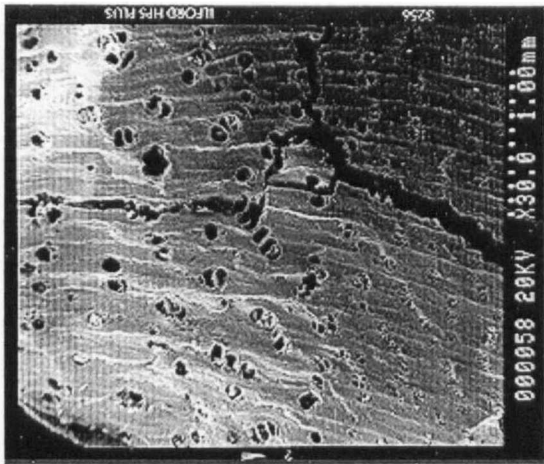
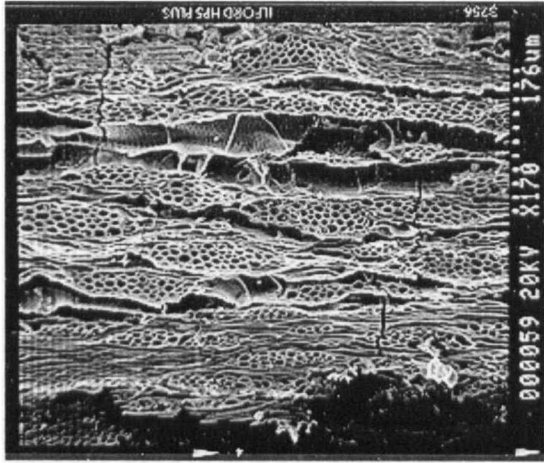
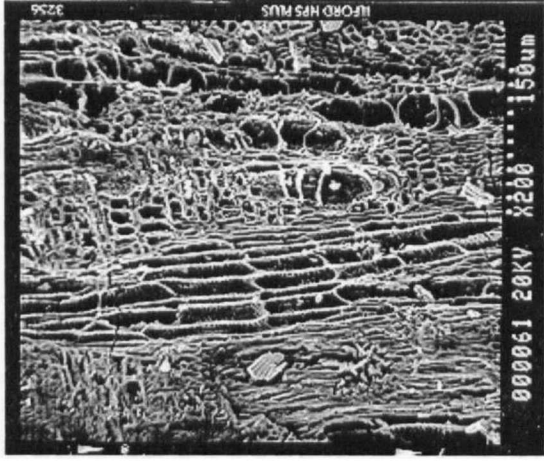


Plate 11c *Celtis* (left to right: transverse, tangential, radial)

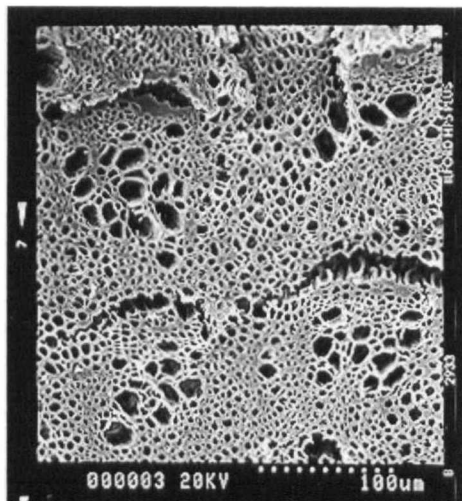
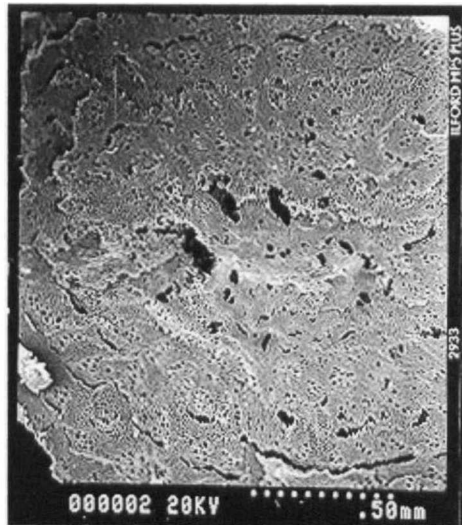
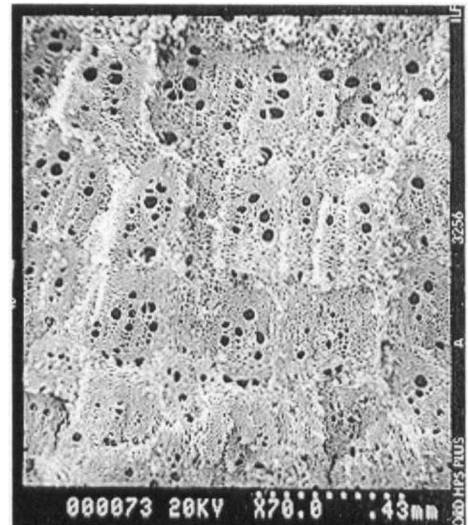
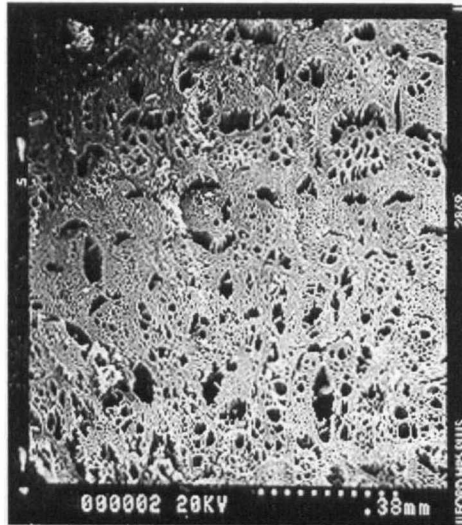


Plate 12b Chenopodiaceae
(*Suaeda/Salsola* type)

Plate 12a Chenopodiaceae
(*Noaea* type)

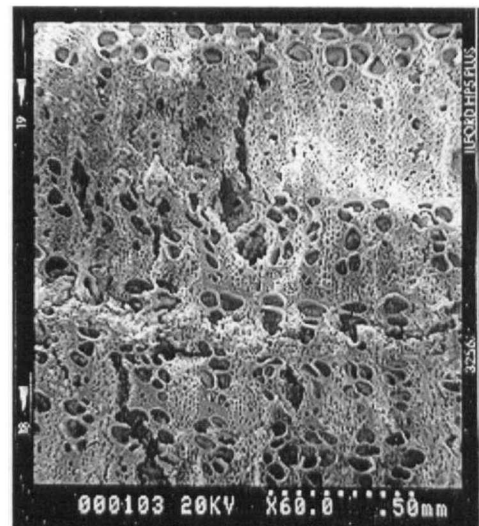
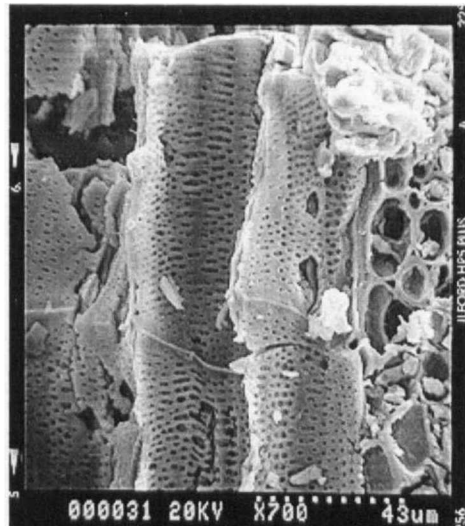
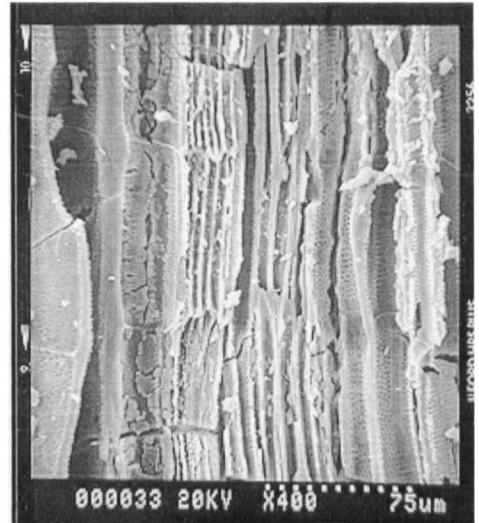
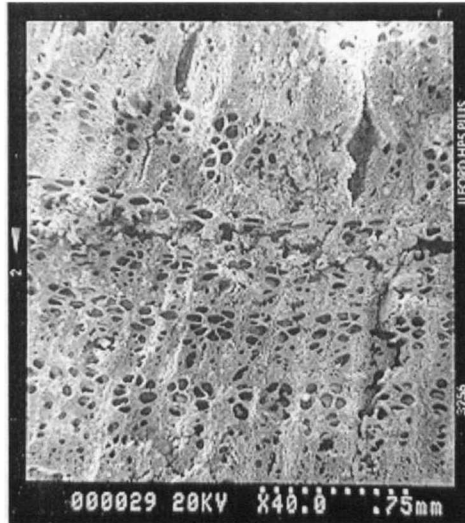


Plate 13 *Clematis* (left column from top to bottom: transverse, radial, tangential; right column likewise: radial, tangential, transverse)

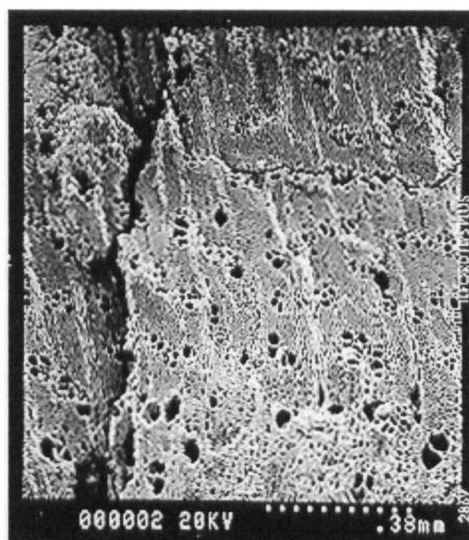
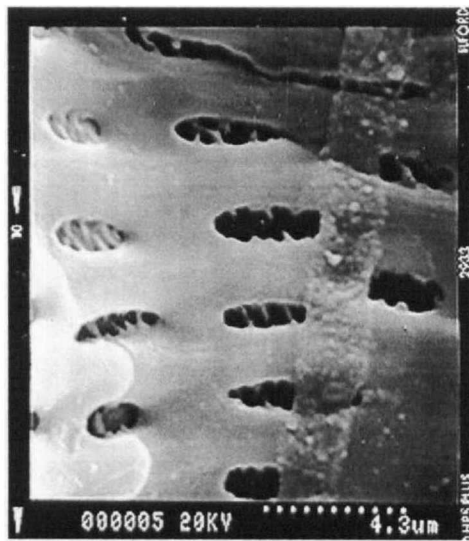
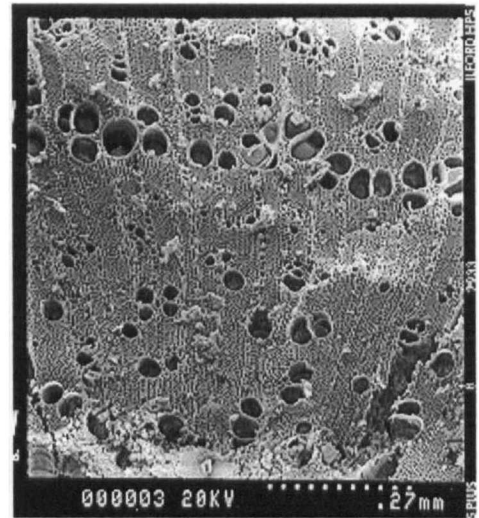
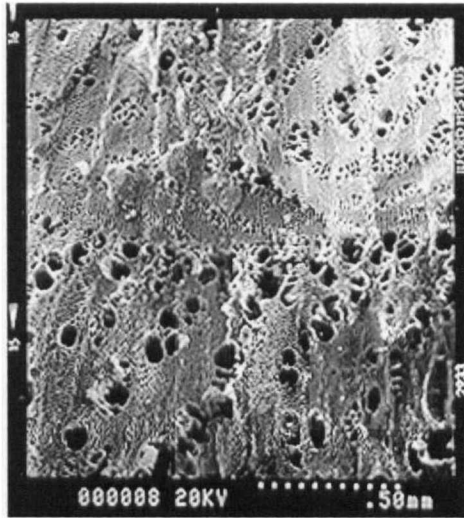


Plate 14 Fabaceae (left column-top/middle: *Genista* type, bottom: indet., right column: *Colutea* type)

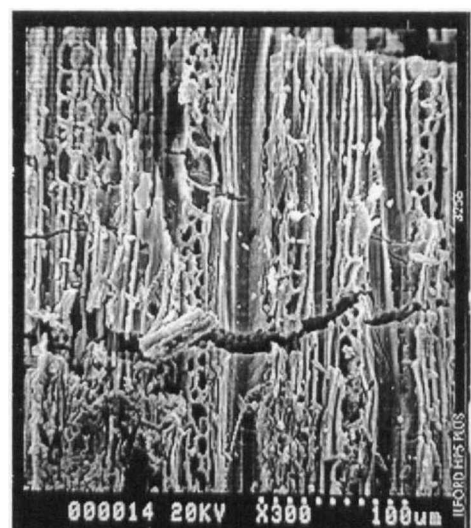
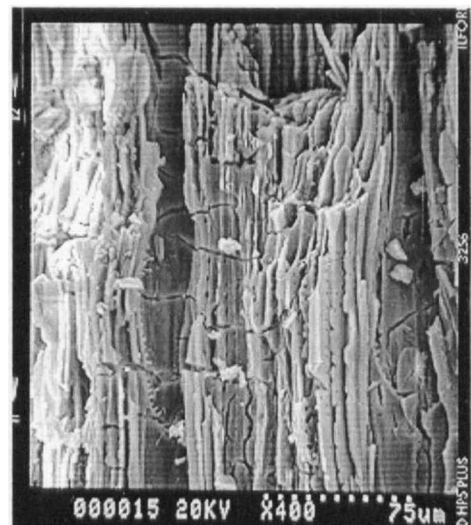
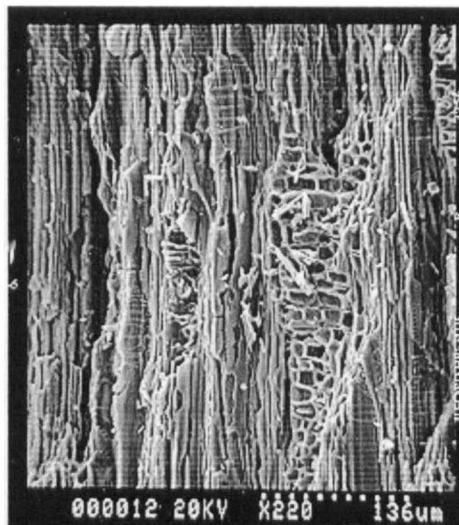
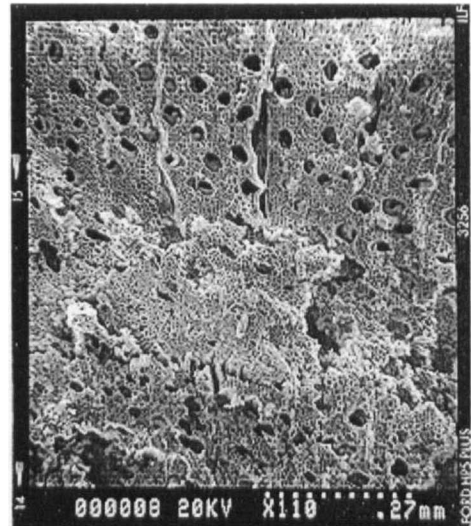
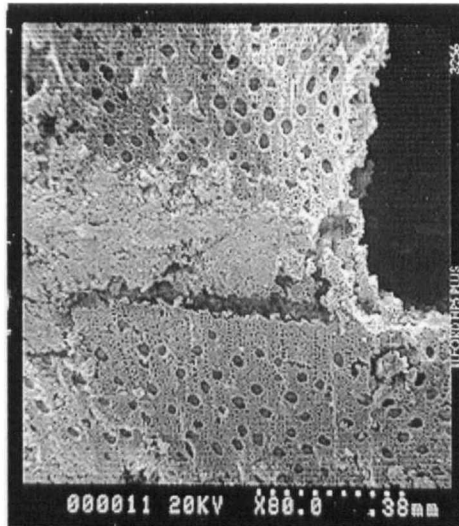


Plate 15 *Cornus* (top: transverse, middle and bottom-left: radial, showing scaliform perforation plates, bottom-right: tangential)

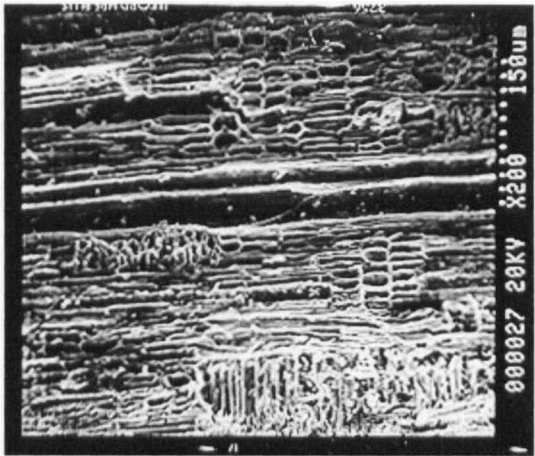
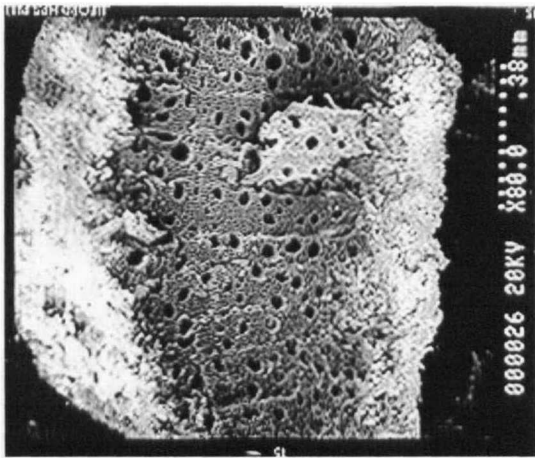


Plate 16 *Cornus* (left to right: transverse, radial, tangential)

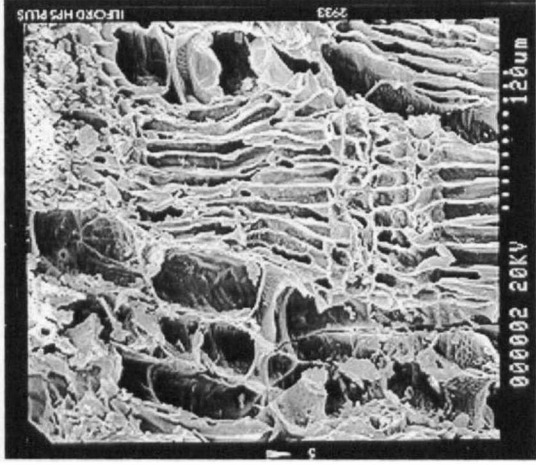
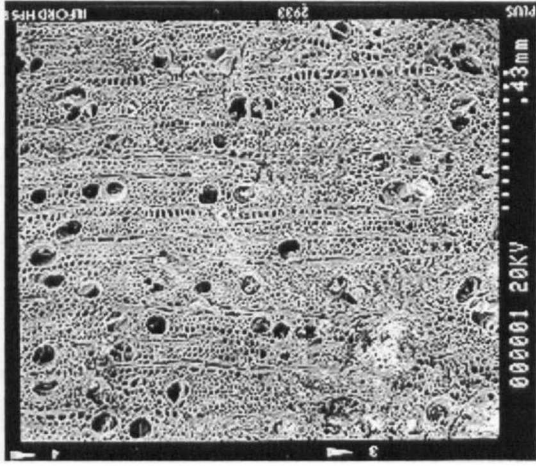


Plate 17 *Ficus* (left to right: transverse, radial and detail of vessel-ray pits in radial section)

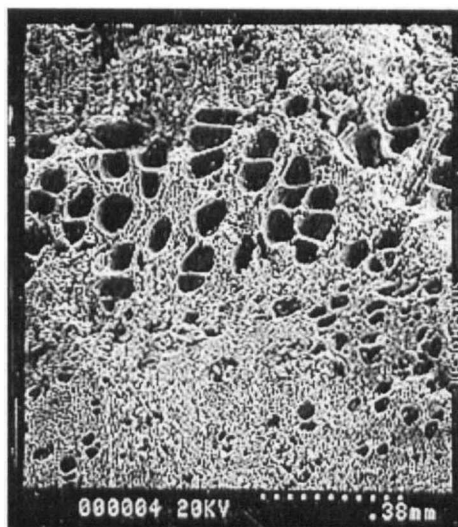
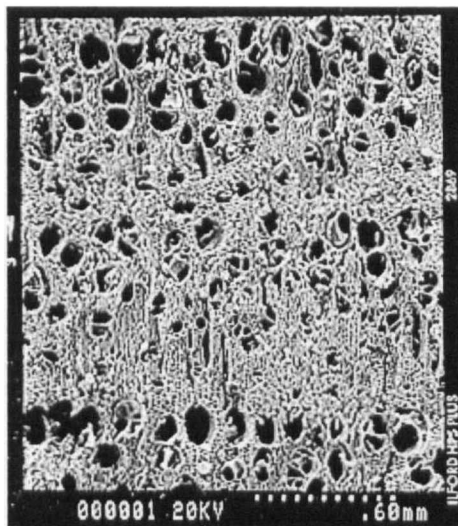
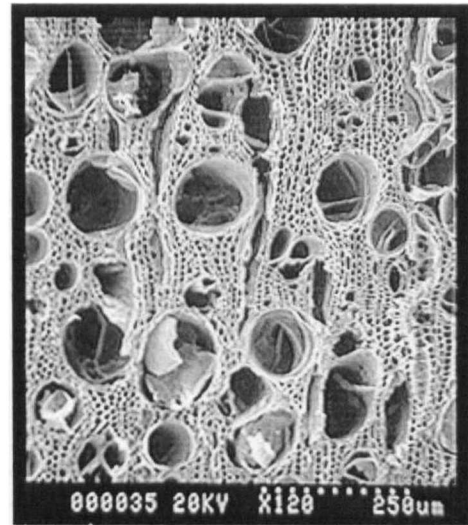
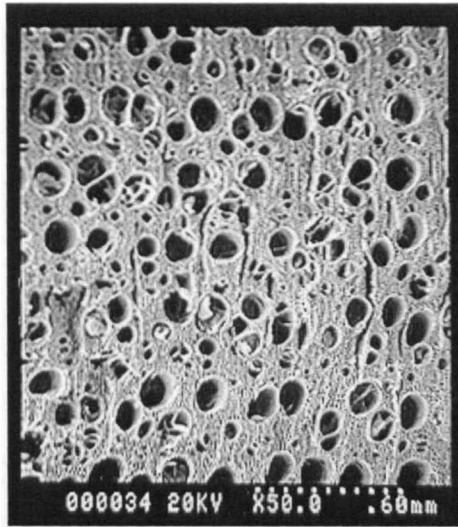


Plate 18 *Fraxinus* (left column: transverse section, right column-top: transverse, middle-bottom: radial)

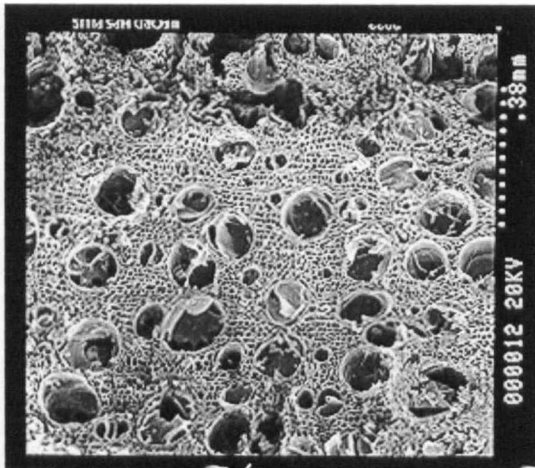
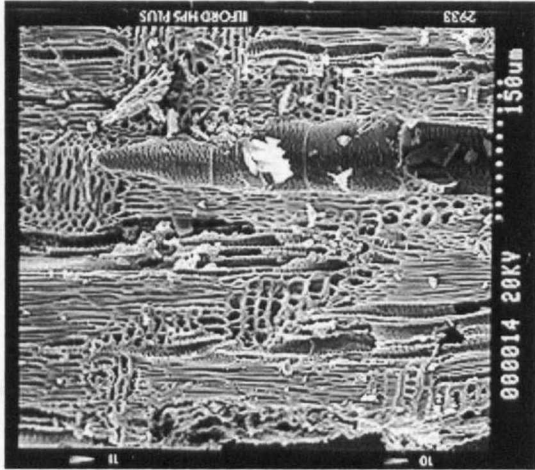
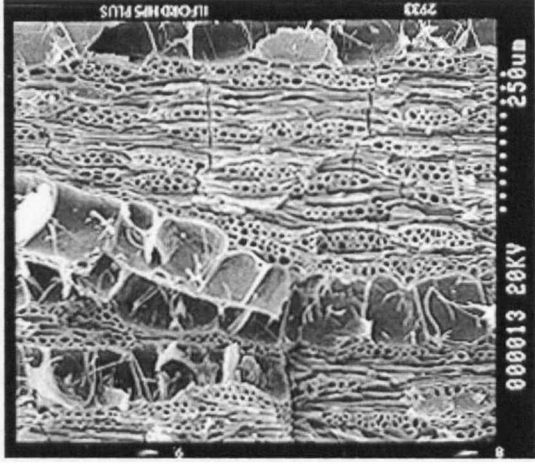


Plate 19 *Fraxinus* (left to right: transverse, radial, tangential)

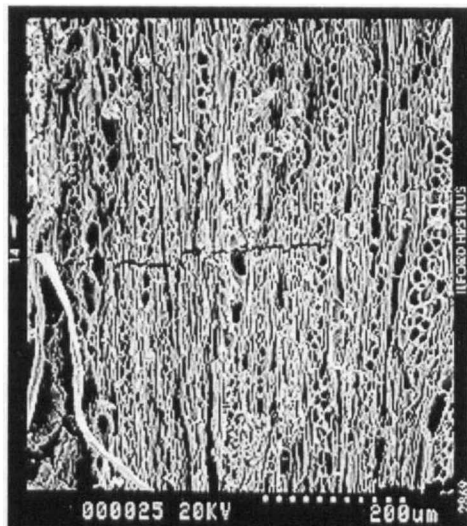
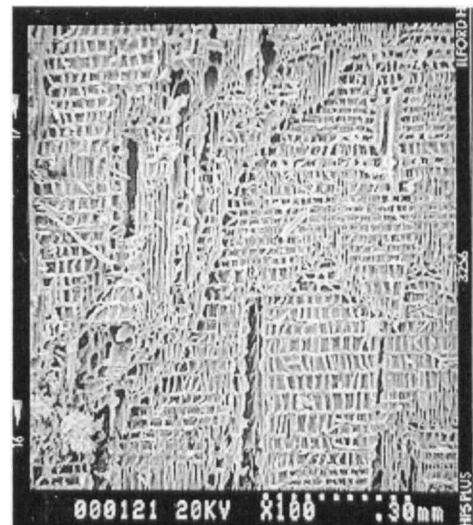
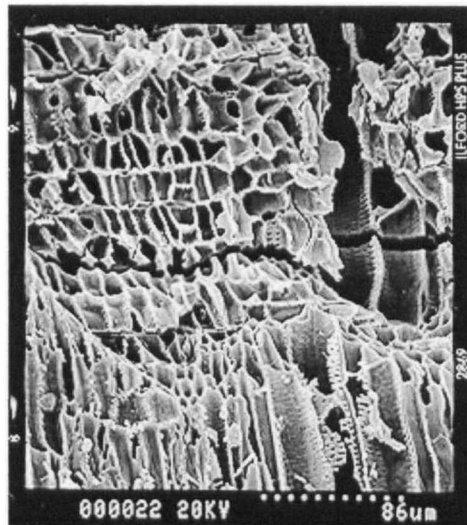
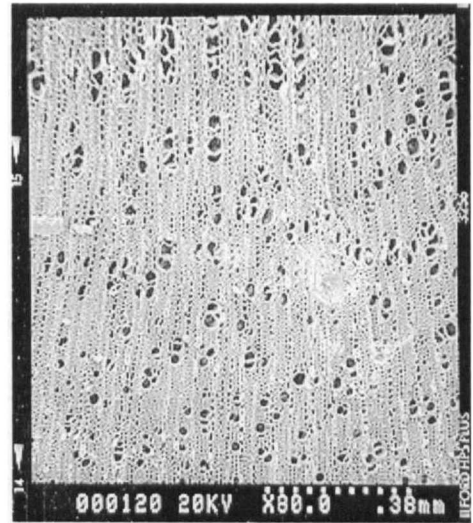
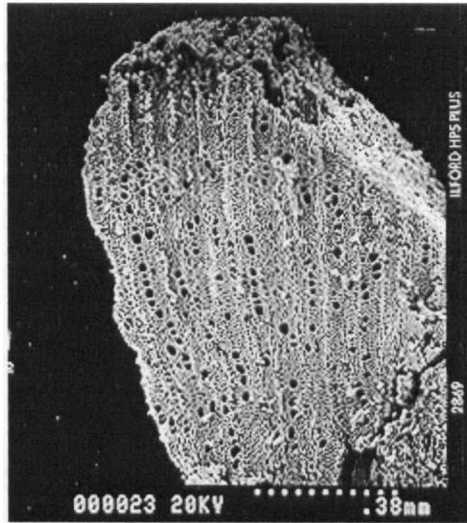


Plate 20 Lamiaceae (top: transverse, middle: radial, bottom: tangential)

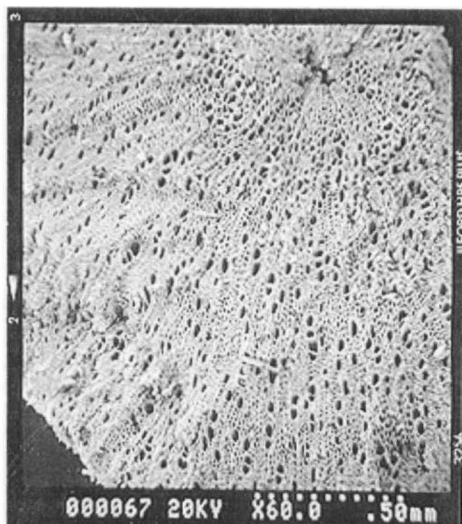
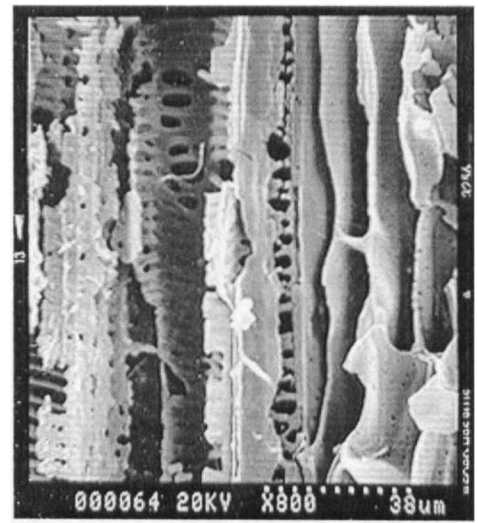
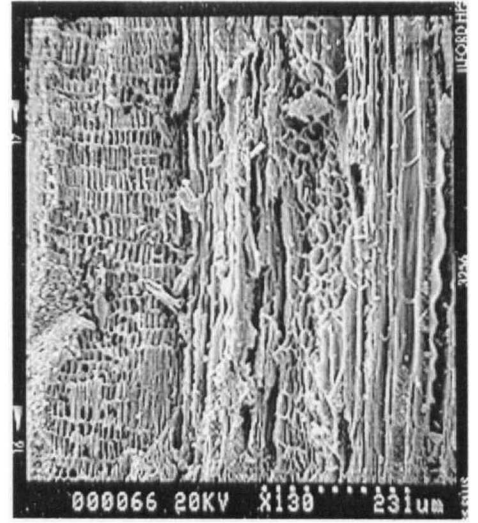
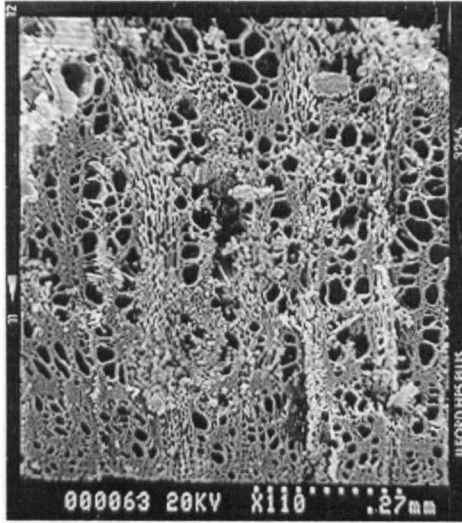


Plate 21 Lamiaceae

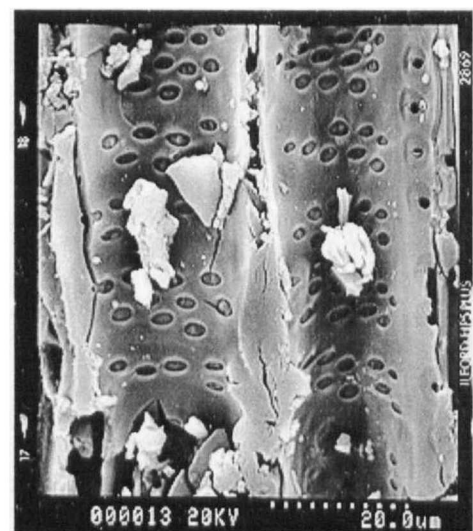
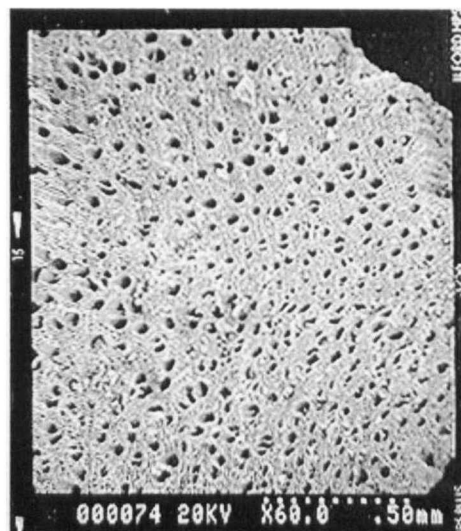
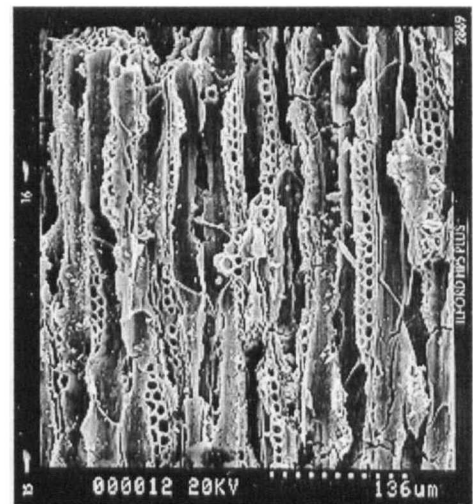
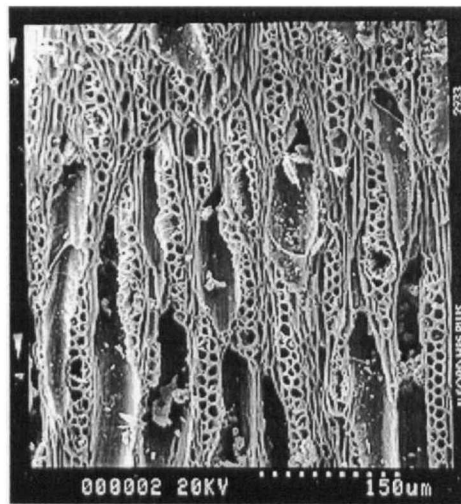
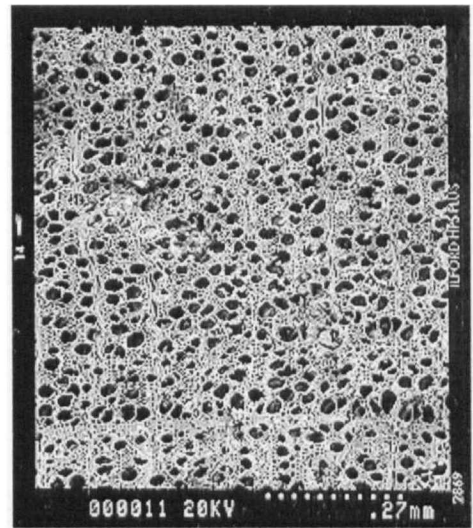
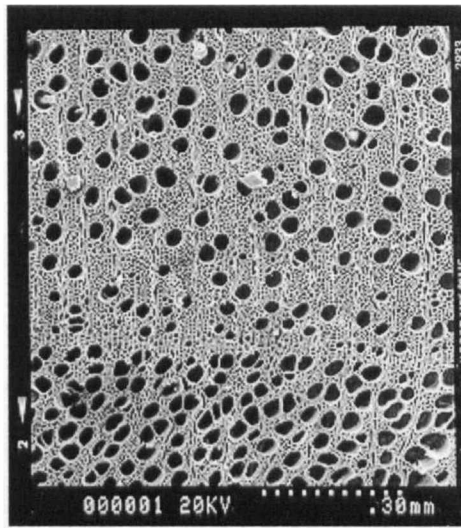


Plate 22 Maloideae (top & bottom-left: transverse, middle: tangential, bottom-right: detail of radial section showing vessel-ray pits)

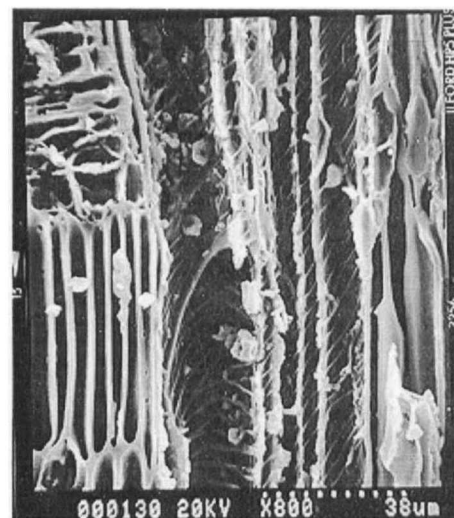
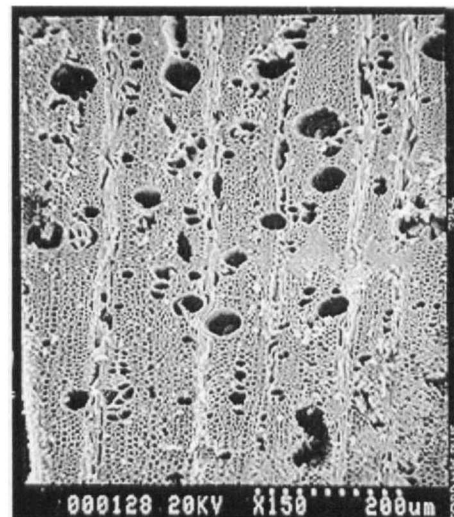
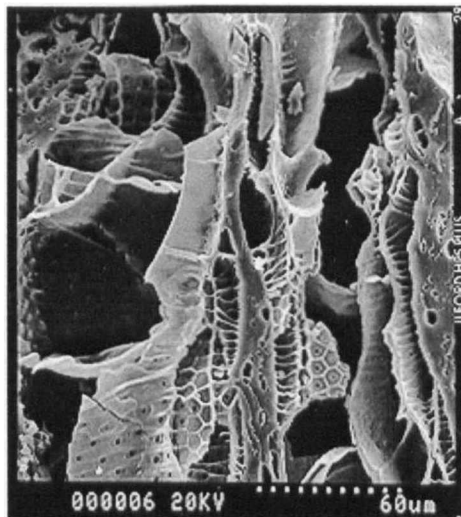
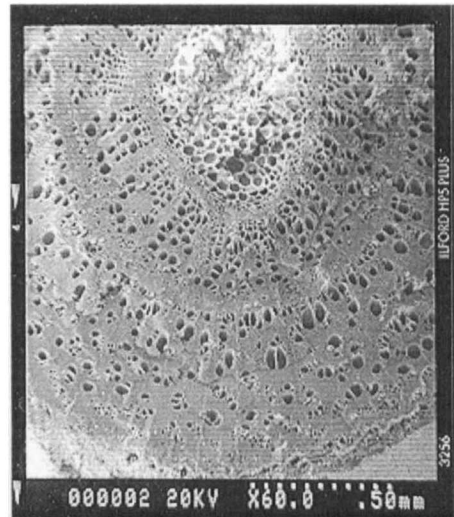
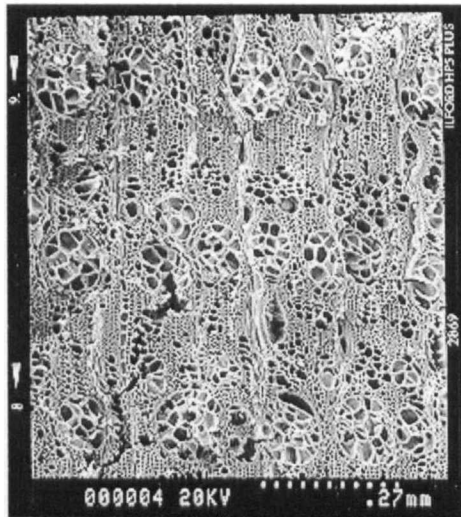


Plate 23 *Pistacia* (top & middle-right: transverse, middle-left: radial showing detail of inter-vessel pits, bottom-left: tangential, bottom-right: radial)

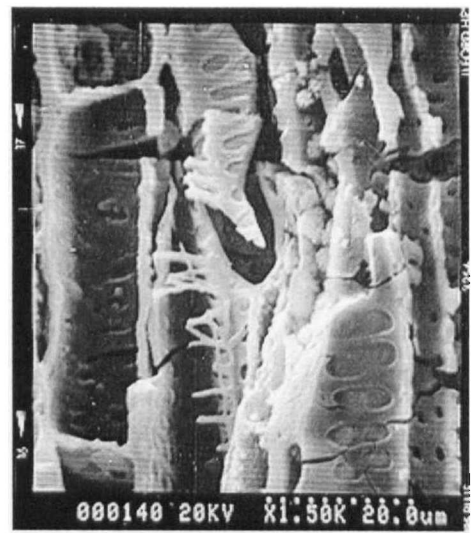
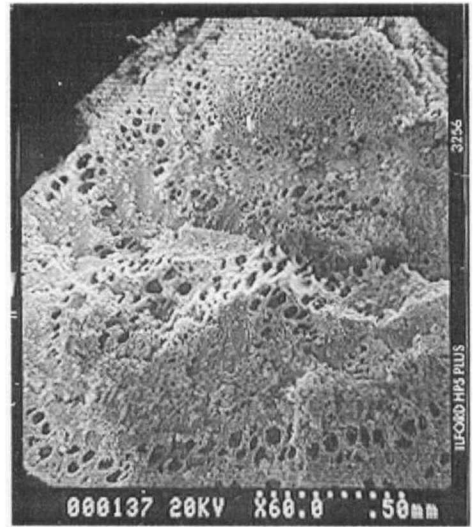
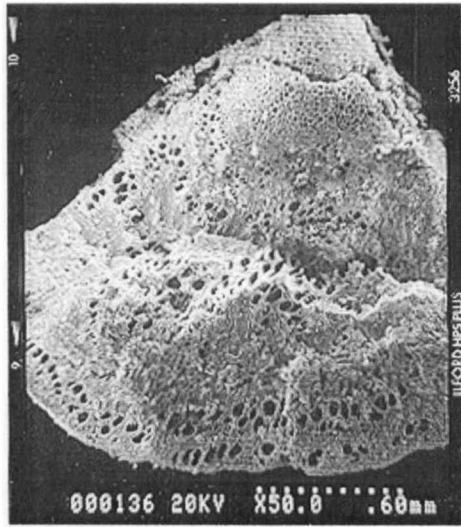


Plate 24 *Platanus* (top: transverse, middle: radial, bottom: radial showing detail of opposite pits)

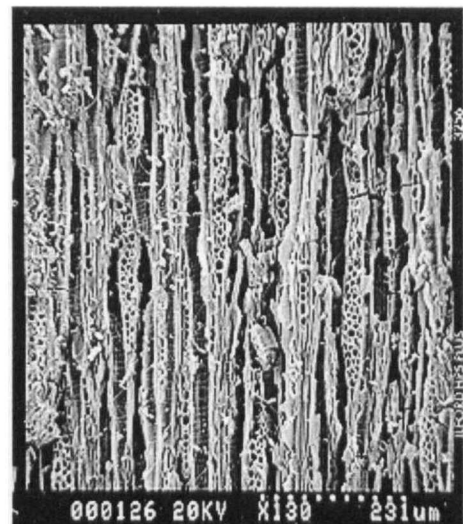
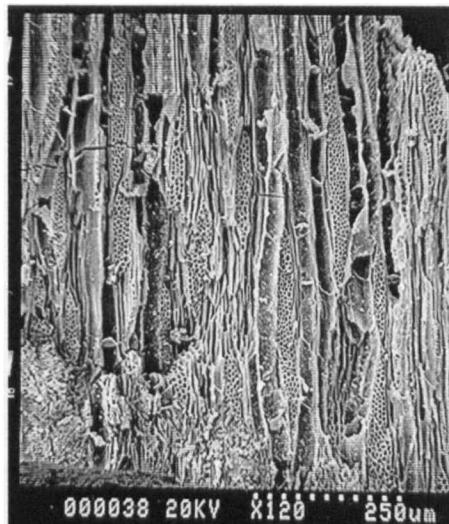
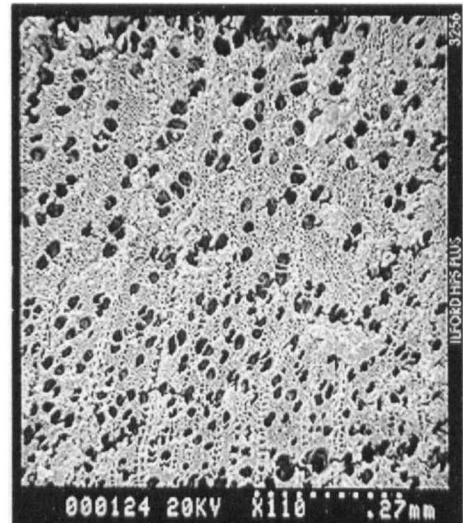
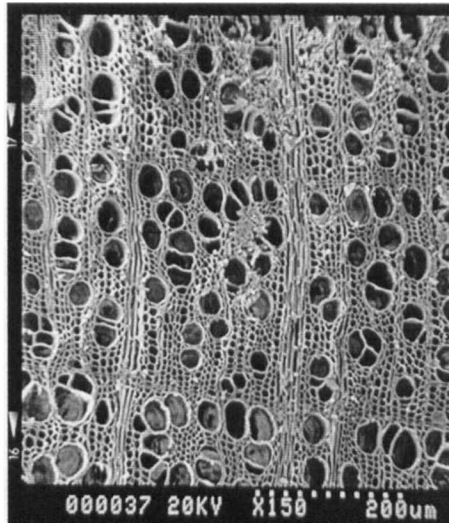
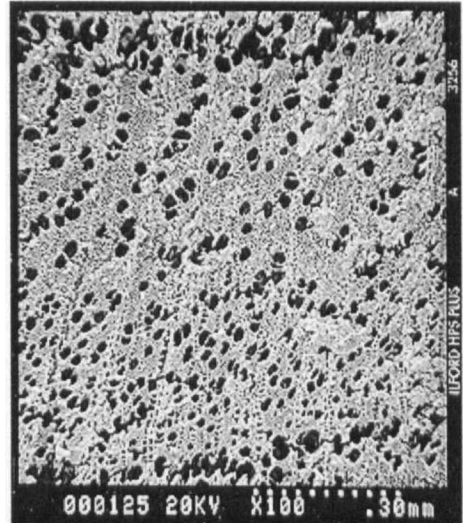
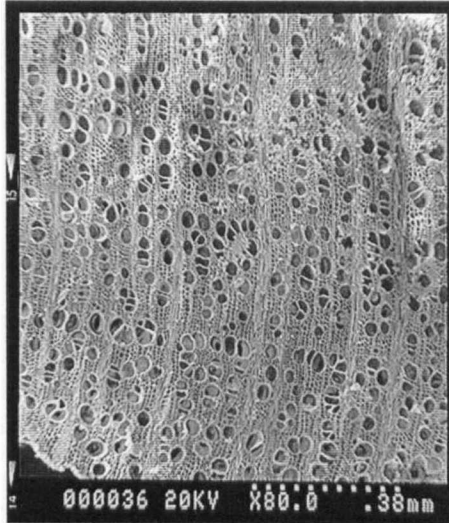


Plate 25 *Prunus* (top-middle: transverse, bottom: tangential)

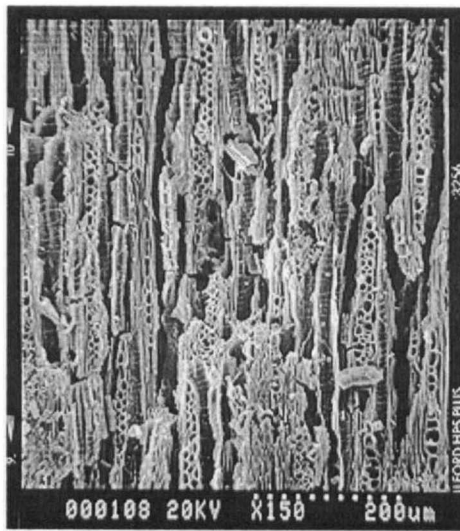
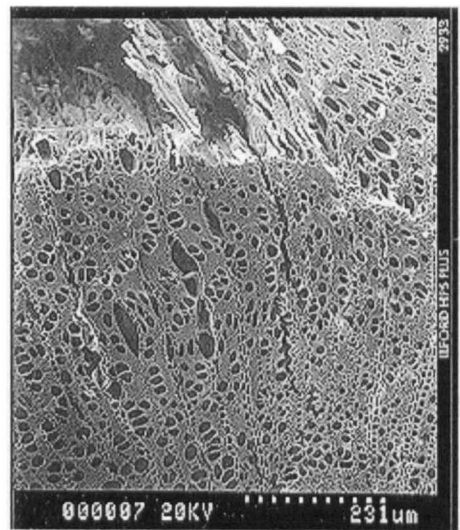
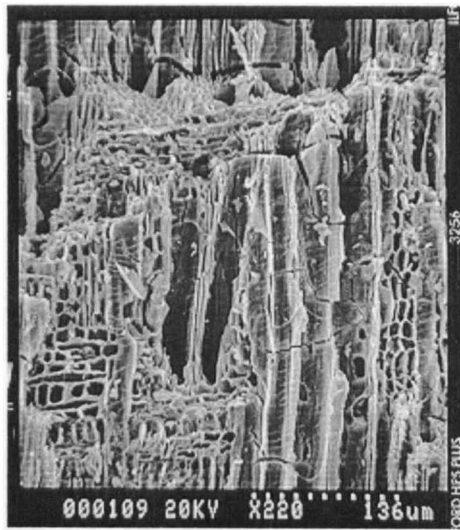
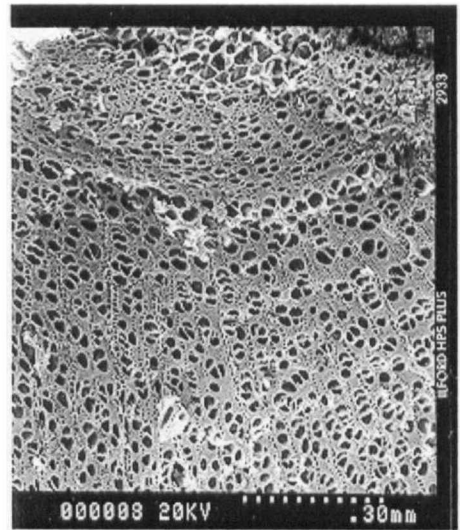
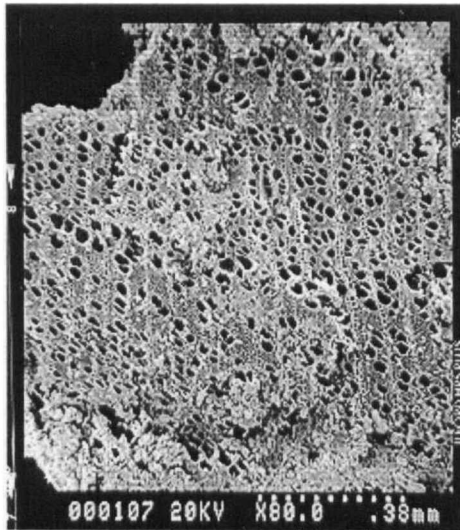


Plate 26 *Prunus* (top & middle-right: transverse, middle-left: radial, bottom: tangential)

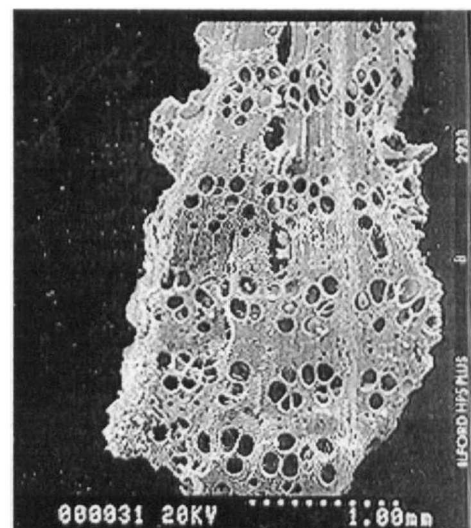
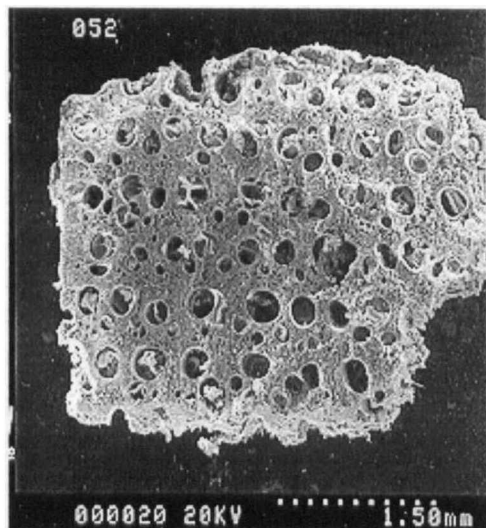
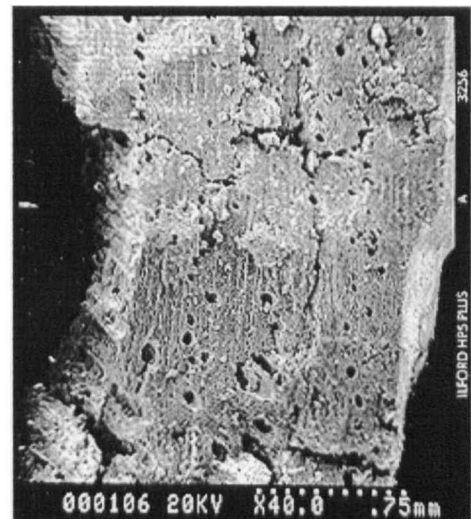
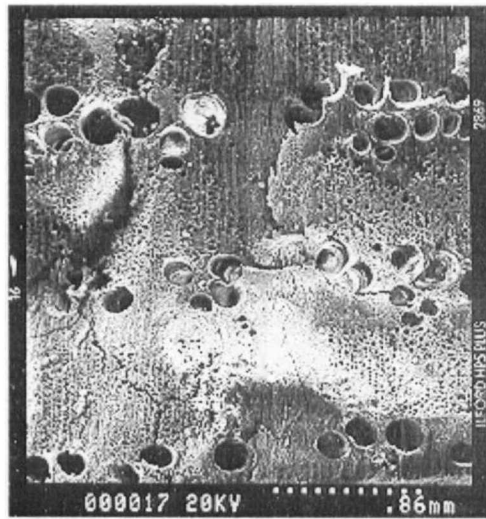
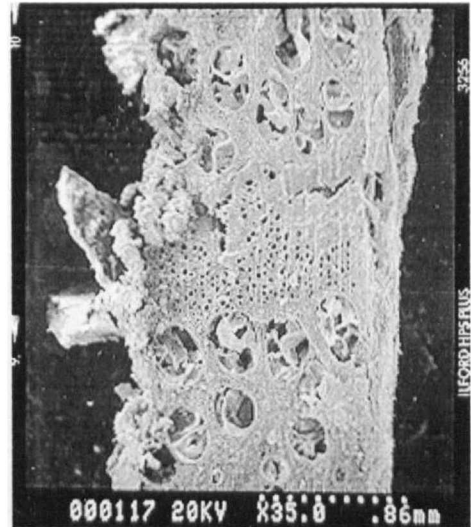
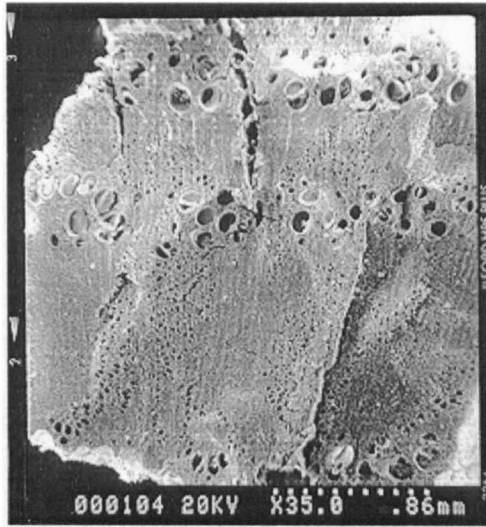


Plate 27 *Quercus* (deciduous type; all: transverse section)

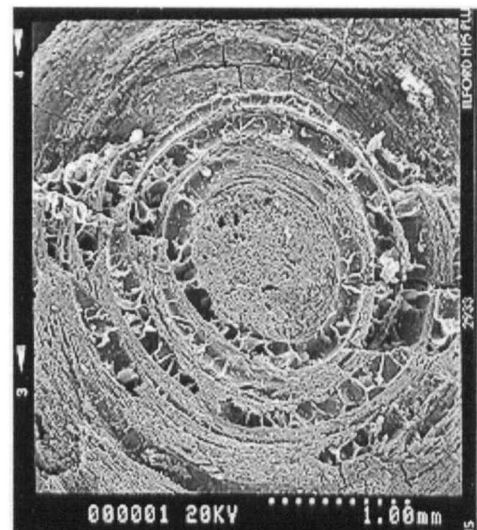
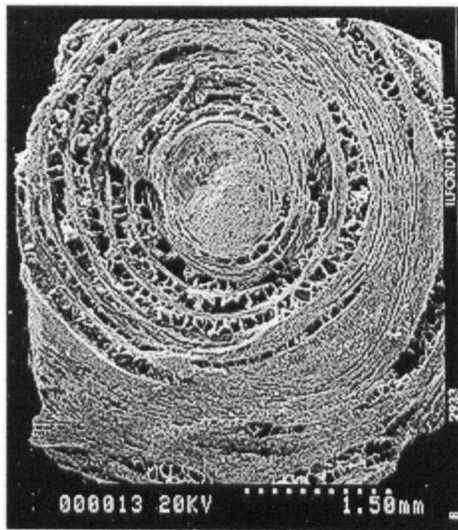
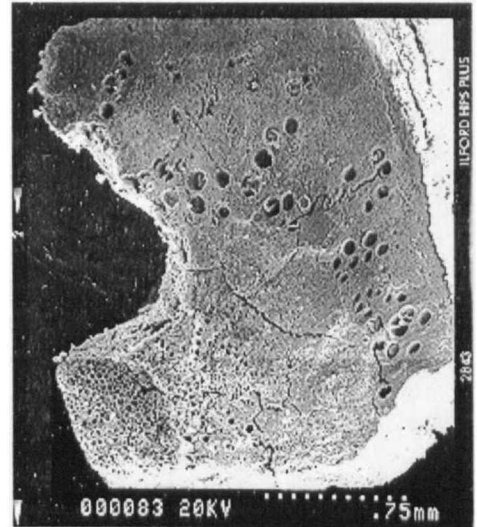
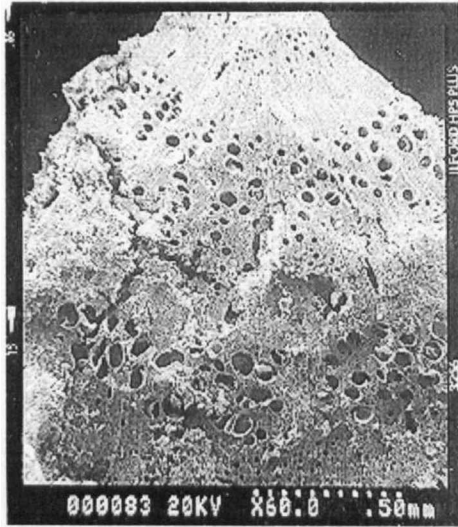


Plate 28 *Quercus* (top: twig/round wood, bottom: knots)

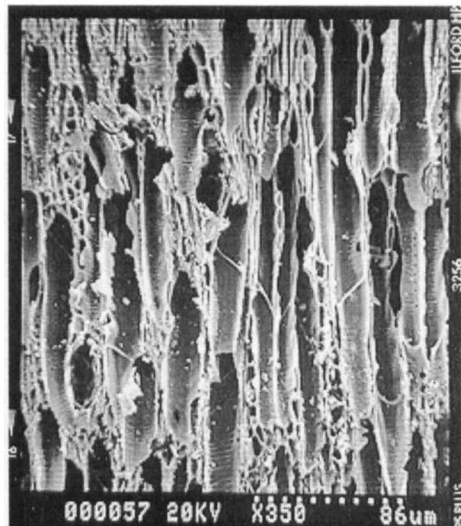
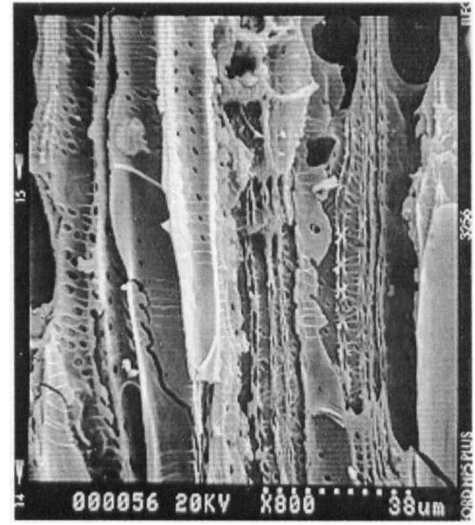


Plate 29 *Rhamnus* (top: transverse, middle: radial, bottom: tangential)

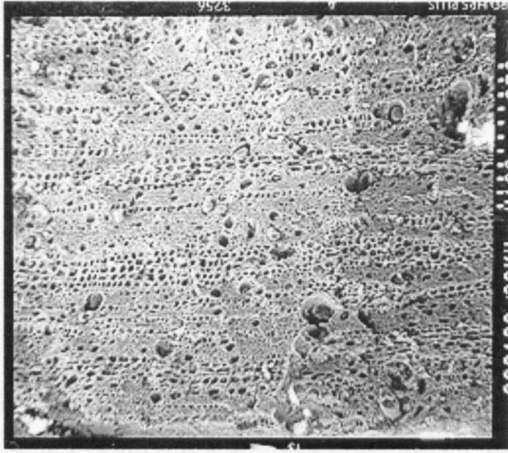
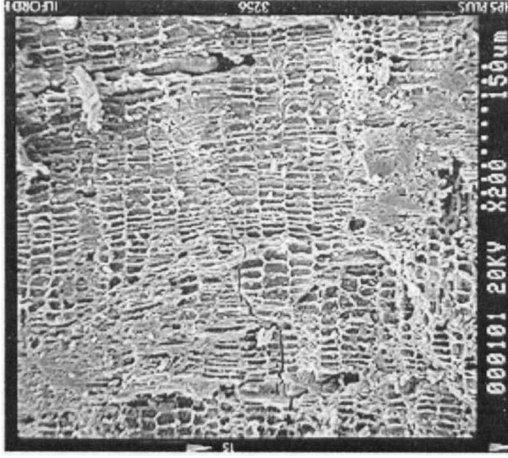
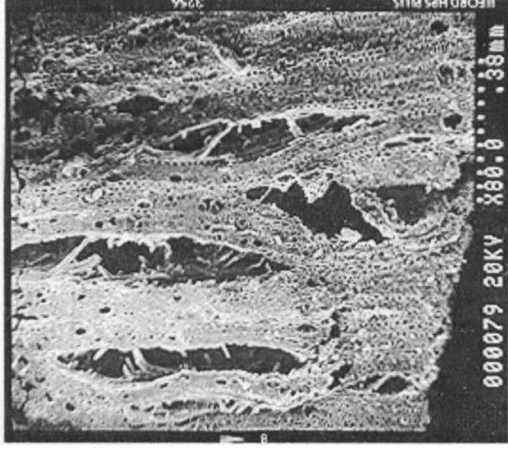


Plate 30 *Rosa* (left & right: transverse, middle: radial)

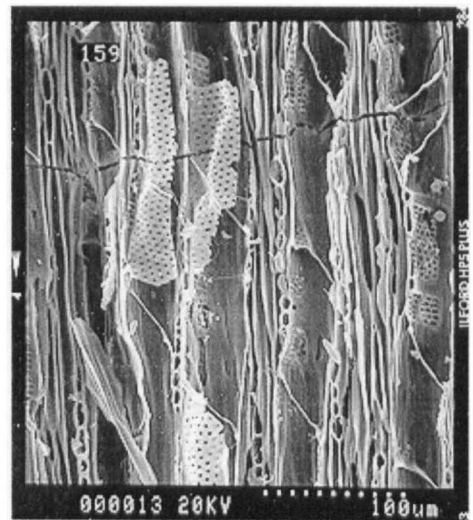
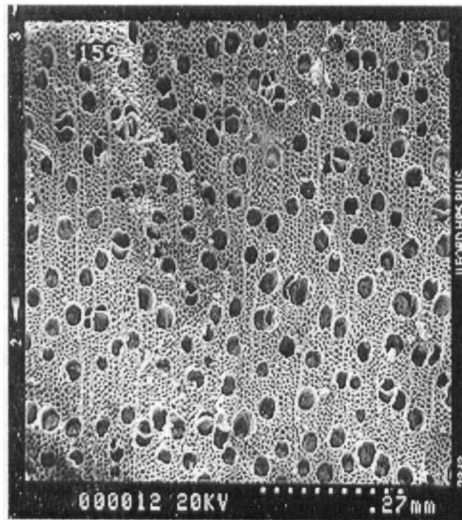
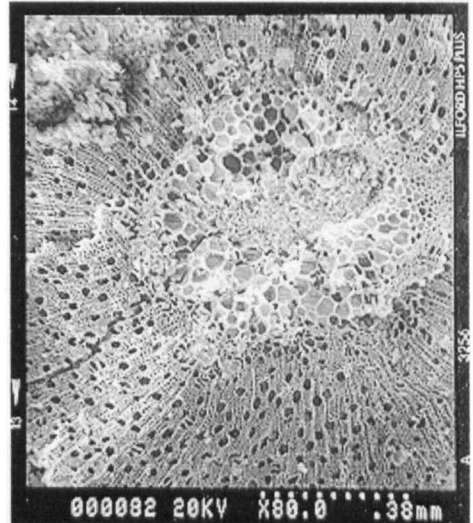
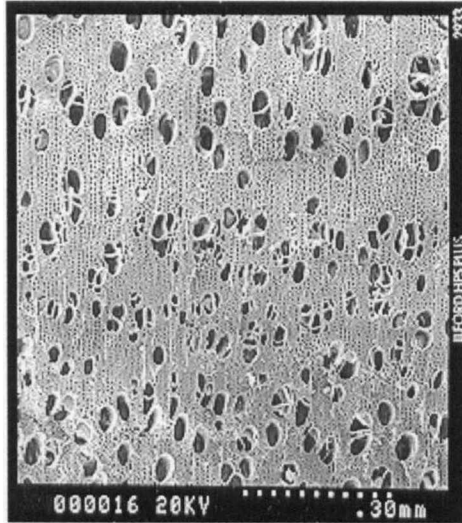


Plate 31 Salicaceae (top & bottom-left: transverse section, bottom-right: tangential)

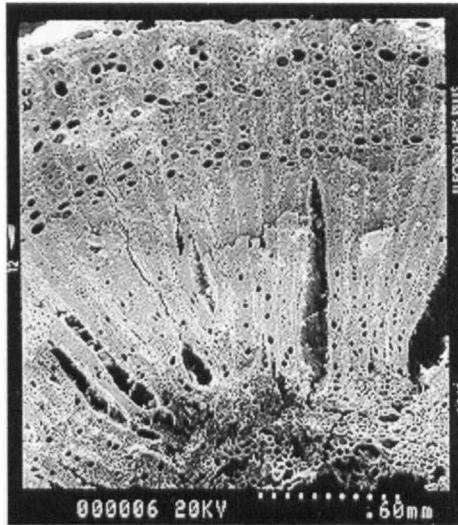


Plate 32a *Tamarix* (transverse section)

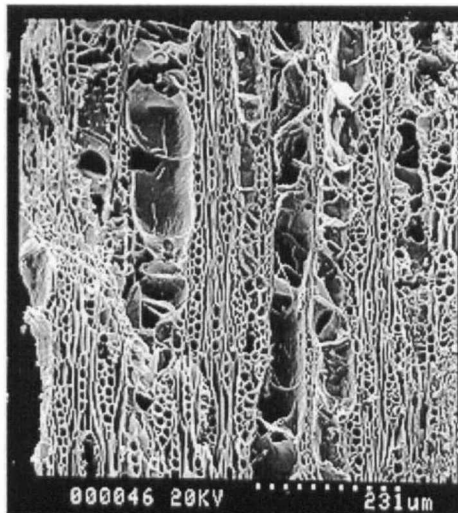
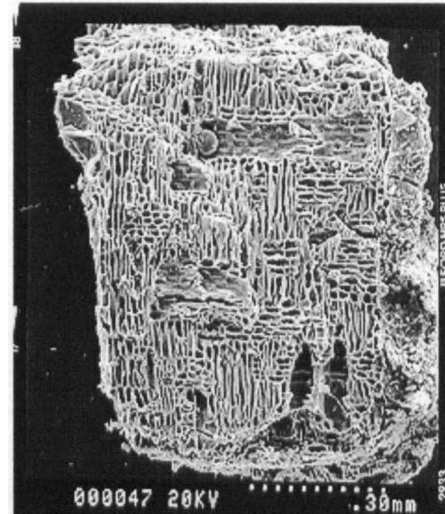
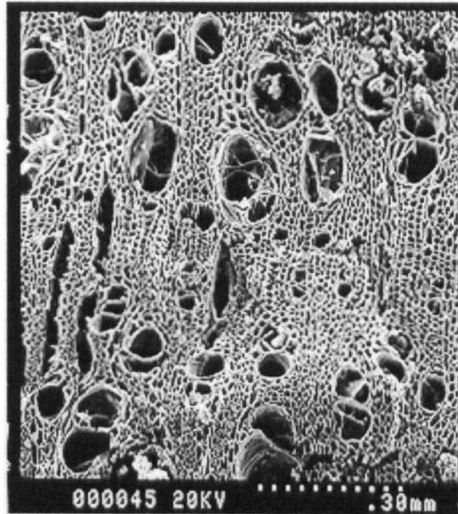


Plate 32b *Vitex* (top-left: transverse, top-right: radial, bottom: tangential)

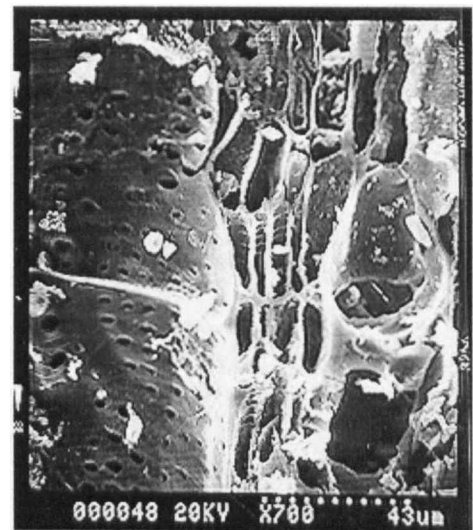
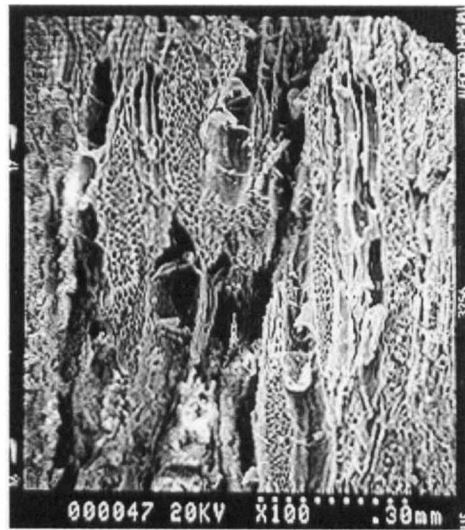
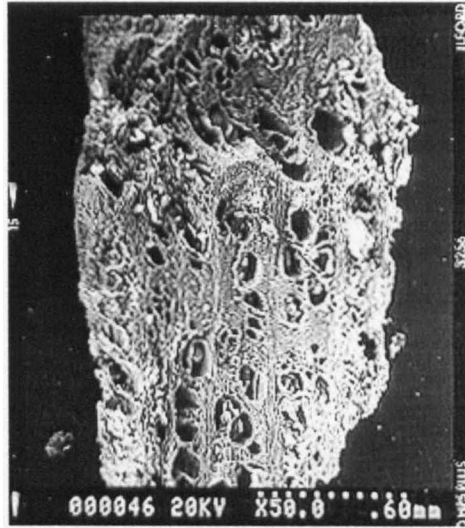


Plate 33 *Vitis?* (top-left: transverse, top-right & bottom-right: radial, bottom-left: tangential)

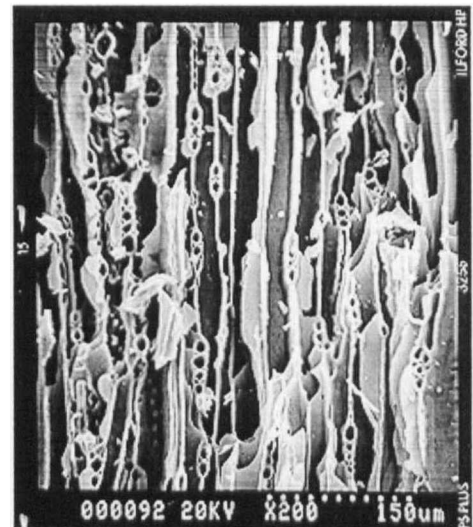
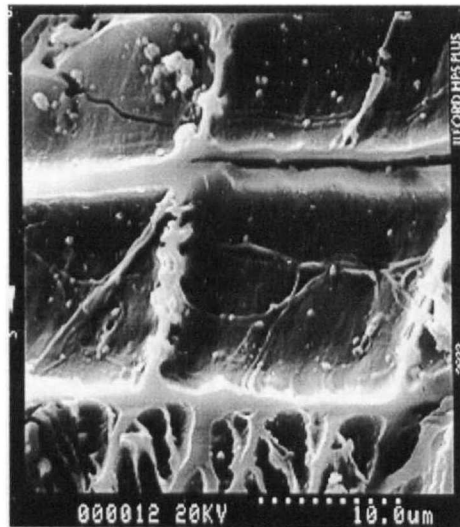
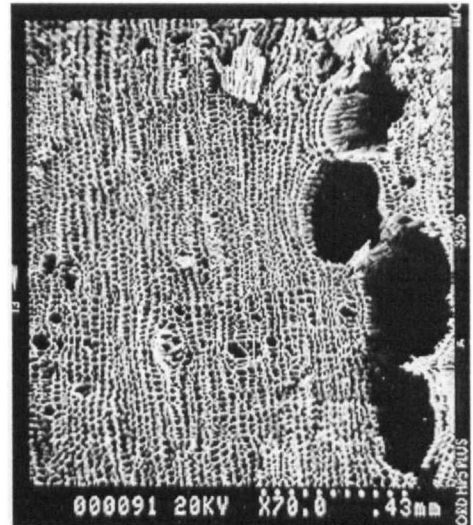
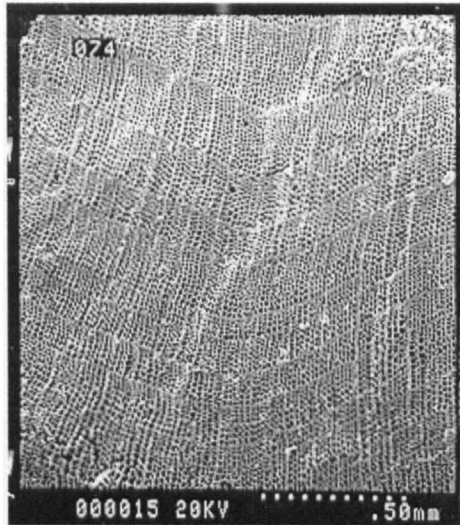


Plate 34 *Juniperus* (top: transverse, bottom-left: radial, bottom-right: tangential)

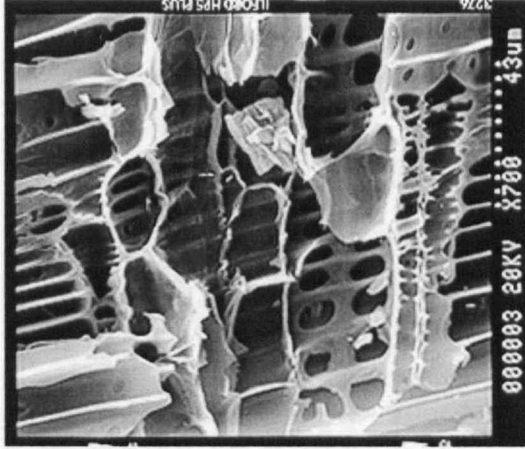
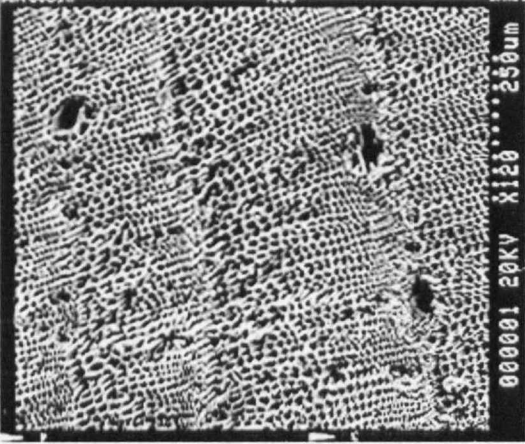


Plate 35 *Pinus* cf. *nigra* (left: transverse section, right: radial section)

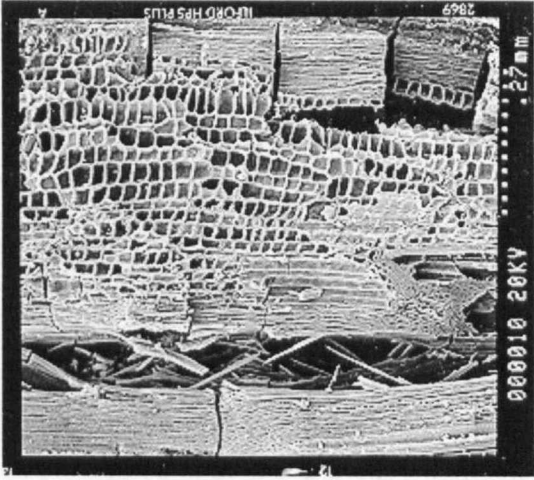
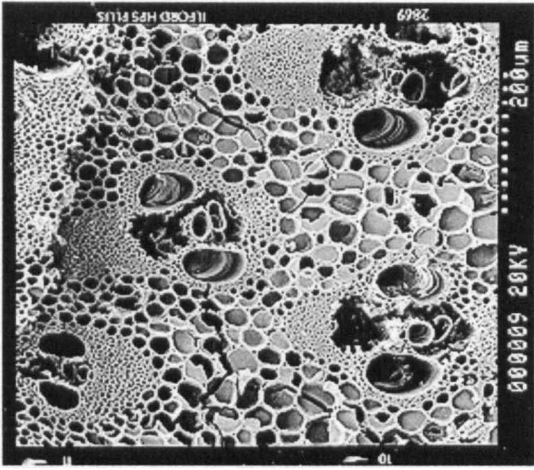


Plate 36 *Phragmites* (left: transverse section, right: radial section)

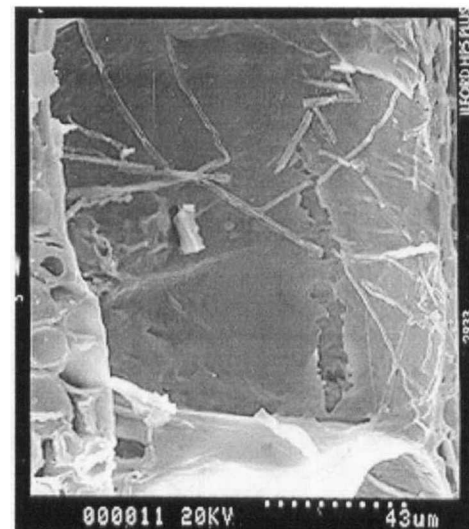
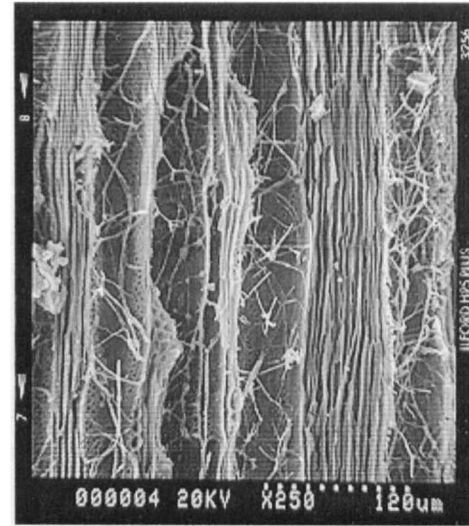
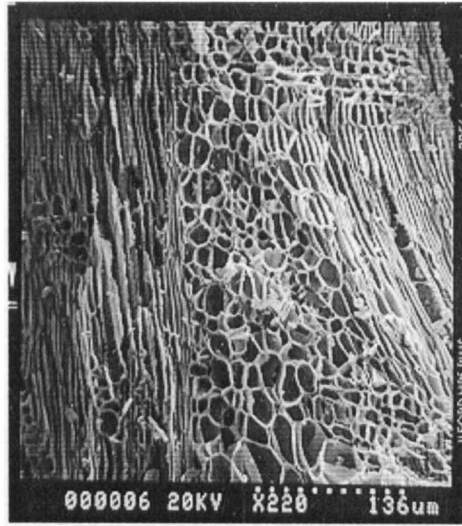
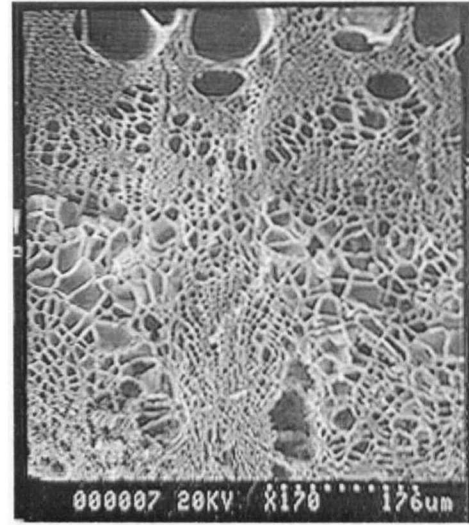
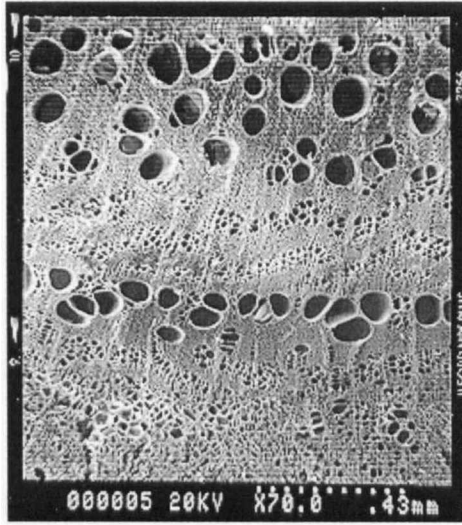


Plate 37a Decayed wood specimens (top & middle: *Pistacia*, bottom-left: *Quercus*, bottom-right: *Fraxinus*)

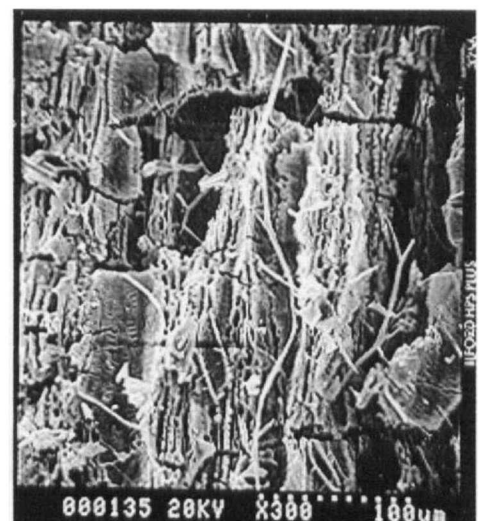
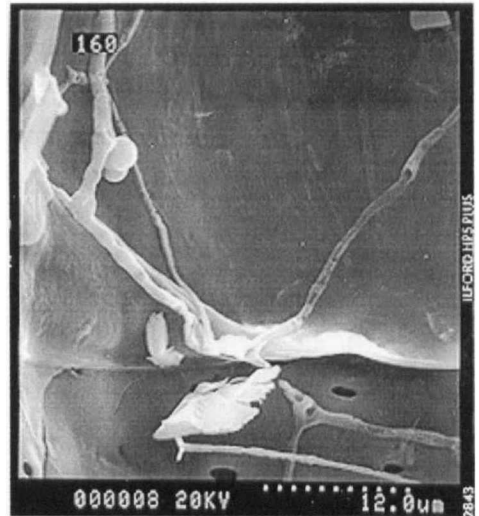
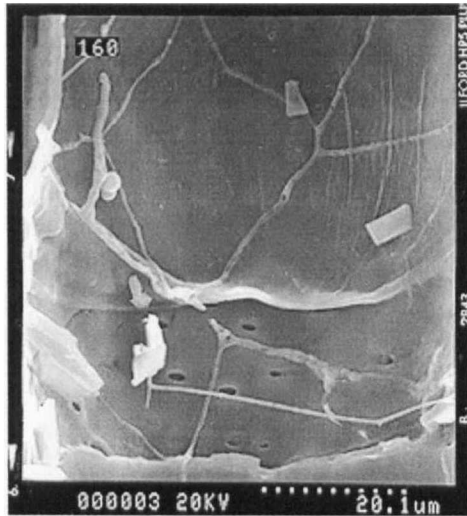


Plate 37b Decayed wood specimens (top: *Quercus*, middle: *Fraxinus*, bottom-left: Lamiaceae, bottom-right: *Platanus*)

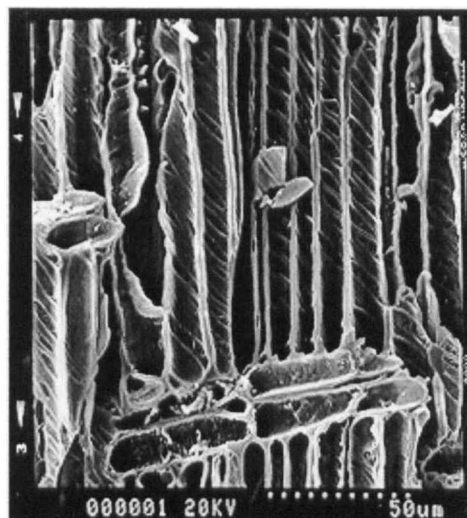
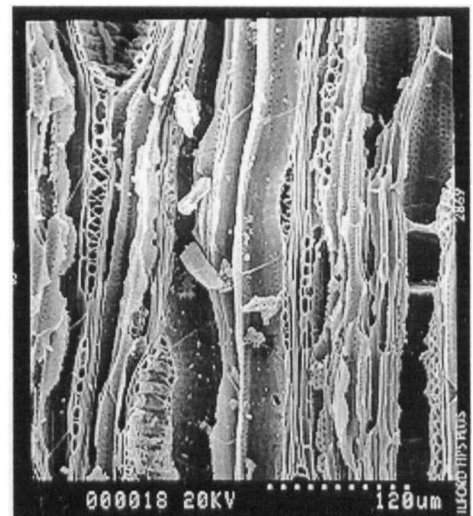
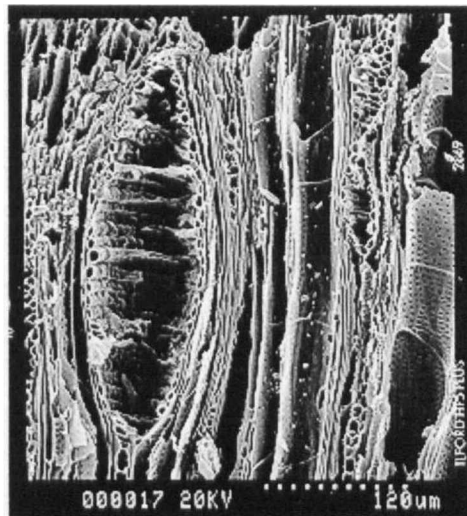
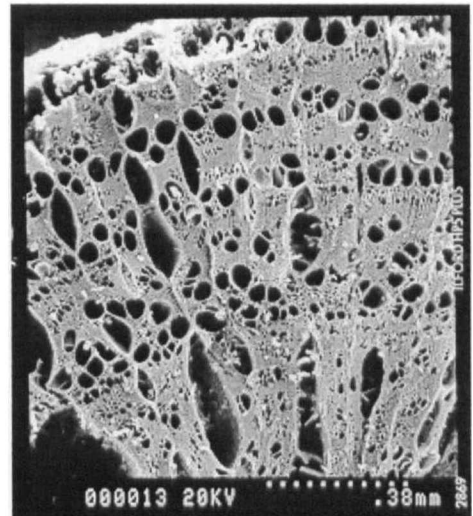
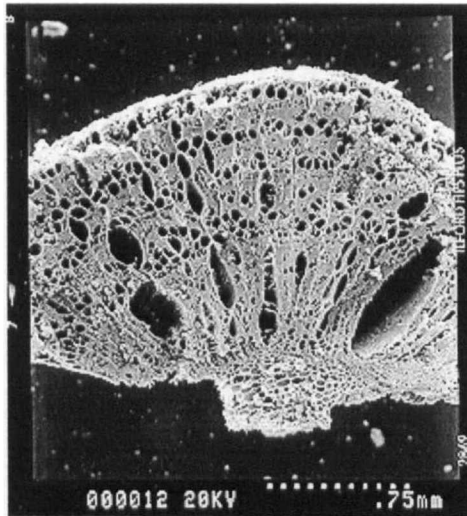


Plate 38 Thermal degradation and possible signs of wood deformation other than fungal decay; top & middle: twig (*Ulmaceae*) showing fissures in rays, bottom: *Juniperus* fragments showing signs of compression (left) and wavy patterns (right)