

Abstracts

I. Introduction: Chronicle of Excavations and Research 1974–1990

(Kostas Gallis)

After the discovery of a cremation cemetery, excavations at the tell site of PMZ were undertaken with the aim of correcting the Neolithic chronology of Thessaly. The study of the pottery proved that the ‘Larissa phase’ previously dated to the end of the Neolithic sequence actually coincides with the ‘Tsangli phase’ at the start of the Late Neolithic period. Furthermore, the material showed a progressive development of the pottery as well as a rich local pottery tradition. Another most important find of this excavation is an open house model including figurines, which shed light on the Neolithic society. Further research included an archaeometry and geoarchaeological programme on the relation of the site to its environment.

II. The Environment and its Evolution around the Tell

II.1. The Latest Quaternary Evolution of the Peneiada Valley, Central Greece, and its Effects on Neolithic and Historical Settlement Distribution

(Riccardo Caputo – Bruno Helly – Dimitra Rapti – Sotiris Valkaniotis)

In order to reconstruct the Neolithic environmental and geographic conditions at PMZ and its surroundings, we investigated the geological and geomorphological evolution of the broader Peneios River system and particularly of the Peneiada Valley, where the archaeological site was settled. The analysis and re-interpretation of geological and historical/modern topographic data clearly indicate a division of Thessaly into two separate endorheic hydrographic networks, the Karditsa and Larissa realms. These two basins were partially covered by lake waters and/or marsh areas up to late antiquity and locally even in recent historical periods. Between them is the Peneiada Valley, where a detailed geophysical survey allowed us to map in detail the pre-infilling bottom morphology, suggesting it likely represented the lower reach of the Titarissios River draining into the Karditsa Basin. It was so up to the Late Pleistocene, when tectonic activity along the Tyrnavos and Larissa faults diverted it into the Larissa area. Accordingly, during Neolithic times, the western sector of the Peneiada Valley was characterised by lacustrine-to-marshy conditions and PMZ was settled in a sort of coastal setting of a narrow gulf. In the meantime, the prograding ‘western’ rivers were progressively infilling the Karditsa basin, starting to form a hydrographic network in the plain. However, only during historical times was the Peneiada Valley affected by fluvial aggradation, causing the alluvial plain to expand eastwards, finally reaching the altimetric threshold of the Kalamaki Gorge. This last phenomenon definitely established a permanent hydrographic connection from western to eastern Thessaly.

II.2. Geophysical Investigations

(Apostolos Sarris – Tuna Kalayci – James Donati)

Geophysical prospection surveying was able to highlight various details regarding the habitation area around PMZ. It confirmed that the settlement was established at the edge of an intense flooding zone and, during the Middle Neolithic period, it was encircled by two gullies flowing from the north towards the western and eastern sides of the magoula. The burial grounds of the cemetery to the

north, previously identified through excavations, were most likely located on an elevated geological formation at the border of the flooding zone, in accordance with conclusions drawn by Caputo et al.¹²⁷⁰ Surveying found evidence for enclosure walls (or ditches) that encircled the magoula, acting, among other things, as counter measures against flooding episodes. Anthropogenic activity was generally limited to zones immediately below the magoula, with the exception of the northwestern sector, where a number of thermal structures are sparsely spread within a distance of 70m from the mound. A denser distribution of (Early Bronze Age?) structural residues spreads along a low elevation relief towards the southeast, confirming the continuation of habitation in this area.

III. Stratigraphy and Architecture (*Giorgos Toufexis – Christos Batzelas*)

Platia Magoula Zarkou constitutes an impressive magoula (tell) consisting of c. 10.00m human deposits, more than half of which are dated to the Middle and early Late Neolithic period (deposits c. 5.80m thick) while the remainder date to the Early and Middle Bronze Age. The excavations were carried out in 1976–1990 and had a stratigraphic orientation, aiming at clarifying the chronology of the so-called ‘Larissa phase’. Vessels of that period had previously been found in the cemetery of the settlement together with grey vessels of the ‘Tsangli phase’. Nevertheless, the analysis of the settlement’s stratigraphy and architecture, albeit too fragmentarily, was able to cast some light on the building practices and aspects of the use of intra-settlement space as well. Overall, nine building phases (BPh I–IX) with several subphases were discerned corresponding to Ceramic Horizons 1–6. Based on the pottery, the BPh I–VI were assigned to the Middle Neolithic I–III, the BSPh VIIa to the transition from the Middle to the Late Neolithic and the BSPh VIIb to BPh IX to the Late Neolithic, spanning a period of approx. 400 years according to the radiocarbon dates. The stratigraphic sequence was continuous throughout the thick Neolithic deposits and no stratigraphic hiatus was observed. To the earliest phase (BPh I) belonged part of a shallow ditch dug into the alluvial ground, but no ditches were encountered in other phases. The houses were built with posts and abundant clay, probably in a combined *pisé* and timber technique, but there were also buildings with mudbricks and stone foundations and post-built walls. The houses in BPh IV and VI were rebuilt one on top of the other. In BPh IV and VII the buildings were burnt, whilst the well-known house model was found in the burnt debris of a house in BSPh VIIa. In BPh VI potential ‘auxiliary’ buildings connected with houses were encountered. Thermal structures were mostly found in open spaces and yards and less inside buildings and they primarily served for cooking purposes. Levelling works seemed to have played a significant role in the formation of the stratigraphy of the settlement and were frequent due to the restraints in the available habitation space, as would be expected in the tell settlements. Alternation of built and open/semi-open areas or yards was also attested. The analysis has also sought certain analogies and differentiations with the neighbouring and more distant settlements.

IV. The Absolute Chronology of the Excavations: Radiocarbon Dating and Stratigraphic Age Modelling (*Bernhard Weninger – Giorgos Toufexis – Christos Batzelas*)

In this chapter, the radiocarbon data shown in Tab. IV.2.1 will be used to develop an absolute (calendric-scale) chronology of the Neolithic layers of PMZ. The analysis covers a total of ten radiocarbon measurements processed on short-lived samples of (exclusively) animal bone. The results of stratigraphic age-depth modelling of the ¹⁴C data are shown in Fig. IV.2.5. The analysis

¹²⁷⁰ Caputo et al., this volume, 48.

was based on application of Gaussian Monte Carlo Wiggle Matching (GMCWM), as implemented in CalPal software (Version 2019.5). As it turned out, due to the largely wiggle-free shape of the ^{14}C age calibration curve in the period under study (5900–5500 calBC) in combination with the exceptional linearity of the Neolithic sediment accumulation at PMZ and the high precision of the ^{14}C ages as measured by the Heidelberg AMS laboratory, the GMCWM-modelling application has also provided some unusually precise chronological results. Nevertheless, although the calculated dating uncertainties based in extensive Monte Carlo age-depth modelling are in the range of 1–14yrs (95% confidence), we critically argue that the true (realistic) dating errors are more likely to be in the order of 20–50yrs (95% confidence). Such caution in error interpretation would appear advisable, in particular to allow for our lack of any basic (quantitative) understanding of the cultural, geophysical, and sedimentological processes underlying the observed (metric) regularities (at least) in the vertical tell-accumulation.

V. The Tools

V.1. The Flaked Stone Assemblages (*Catherine Perlès – Lygeri Papagiannaki*)

The Platia Magoula Zarkou flaked stone assemblages were studied simultaneously from a technological and a traceological perspective, aiming at documenting diachronic changes in raw material procurement strategies, techniques of production, tool types and tool uses throughout the Middle Neolithic and during the Middle to Late Neolithic transition. Five phases have been identified on this basis. The first four show indisputable continuity in all aspects, although long-term trends can also be observed. The last phase, dated to the early Late Neolithic, differs more markedly. The assemblages are small in number, which can be attributed to the absence of local raw materials, and to the fact that, despite a location that could have appeared as favourable, PMZ seems to have remained in a marginal position vis-à-vis radiolarite and obsidian exchange networks in Thessaly. Three modes of procurement of the tools can be identified: first, a domestic, unskilled production of flakes from river pebbles. The high proportion of flakes and flake tools compared with blades and bladelets is indeed one of the specificities of the PMZ assemblages. Second, a restricted local production of obsidian bladelets by itinerant specialists; third, a limited trade in chert and honey-flint blades. Given the limited access to raw materials, the rate of retouched tools is high, and the tools were often intensely curated. Sickles predominate in the first three phases but decrease afterwards, as do inserts on flakes, predominant in the earliest phases. A progressive diversification of the toolkit can be observed throughout the sequence. Hide working is the best-represented activity after harvesting, but the tools used are varied – end-scrapers, flakes, blades – and unspecialised. In phase 5 the proportion of obsidian becomes insignificant but the typological composition is more balanced and the range of materials worked more diversified: cereals, wood, hide. Weapons are also rare, with only a few trapezes and transverse arrowheads in phases 3 and 4, and tools related to butchery are absent. All the tool types found at PMZ are known from other sites in Thessaly, albeit often rare: for instance, the transverse arrowheads, the sickle blades shaped with an end-scrapers front and the sickle inserts on thick-backed flakes. The good representation of these rare tool types at PMZ, together with the absence of others such as splintered blades, sets it apart from the other settlements and contributes to reinforce the impression of a marked idiosyncratic continuity, especially in the Middle Neolithic. The interplay between raw material availability, the activities performed at PMZ and the tool types that were chosen to perform these technical tasks gives a strong and distinct personality to the PMZ flaked stone tool assemblages.

V.1.11. Appendix 3: Geochemical Sourcing of Chipped Stone Tools from Platia Magoula Zarkou (*Michael Brandl – Christoph A. Hauzenberger – Peter Filzmoser – Maria M. Martinez*)
Provenance studies of lithic raw materials for tool production are one of the keys for reconstructing prehistoric economic behaviour. Establishing the geological origin of lithic artefacts allows fur-

ther investigations and hypothesis testing the framework of resource management by addressing questions relating to procurement strategies. In a case study from PMZ, we show that the Multi Layered Chert Sourcing Approach (MLA) achieves a clear differentiation of siliceous rocks (chert and radiolarite) from Thessaly combining petrographic investigations, geochemical trace element analyses using LA-ICP-MS and statistical data evaluation by means of compositional data analysis (CODA). At PMZ, chert and radiolarite were extensively used for chipped stone tool production; however, systematic provenance studies of the chipped stone industry have never before been undertaken. Our pilot project was able to reveal the origin of selected stone tools from the site, identify primary and secondary sources of the enigmatic ‘Pindos radiolarite’, and establish the Koziakas Mountain range with its adjacent rivers as an extensive source area for early farming communities in the Western Thessalian Plain.

V.2. The Platia Magoula Zarkou Macrolithics: A Thessalian Industry in its Aegean Neolithic Context (*Anna Stroulia*)

Despite the recent dramatic growth within the field of Aegean Neolithic macrolithics (also known as ground stones), still little is known about the relevant industries of the region of Thessaly. By focusing on the assemblage from PMZ, this chapter aims to address this gap. The excavation of the site’s Neolithic deposits yielded approximately 130 specimens. The majority are dated to the Middle Neolithic, about one quarter are Late Neolithic, with a few specimens assigned to the transition between these two phases. On the basis of technomorphological characteristics, five categories were distinguished: grinding and abrading tools; celts; percussive tools; tools with narrow grooves; miscellanea. This chapter represents a three-pronged endeavour that: i) offers a systematic presentation of each category, following the main stages in the tools’ biographies; ii) discusses the tools along a synchronic and diachronic axis; iii) places this Thessalian industry in its broader Aegean Neolithic context.

V.3. Bone Tools (*Rozalia Christidou*)

Nineteen stratified bone artefacts from the Middle and early Late Neolithic layers at Platia Magoula Zarkou in Thessaly were analysed from a morphological and technological point of view to complement a previous report on the worked bone of the site. The state of preservation of the artefacts was also examined. Weathering, burning and animal chewing were associated, where possible, with particular features of the excavated deposits. A single artefact represented reduction waste; the rest, with one exception, were finished products, mostly pointed and cutting-edge tools, thirteen and two specimens, respectively, which displayed use wear. Four preserved marks of rejuvenation of the active end. A central fragment of tool made from a cattle rib showed that this zone of the tool was active. It does not bear shaping marks. This artefact, unique in the Neolithic collection, was classified as a smoother. The bones from which most of the tools were made pointed to raw material availability in the site’s bone refuse, which was dominated by small ruminants, mainly caprines, and pig. The reduction of a red deer metatarsal accords with evidence for transport of selected body parts of this species for use in the settlement. Apart from two ad hoc tools, selectivity of skeletal elements or parts of elements was observed and tied to shaping modalities. As a rule, scraping determined the forms of the tools with little effort. Grinding using fine-grained abrasives aimed at limited modifications, while coarse materials had, in some cases, been used to reduce the bone considerably. This latter option was related to particular processes of tool production from caprine metapodials, known from the Neolithic bone industries in the wider region of Thessaly. The use of tibial fractures for making tools, observed at PMZ, appears to be another characteristic of these industries. There is not enough evidence on which to base site comparisons regarding the anatomical and morphological characteristics of the splinters derived from shattered

bones and used as tool blanks, a noteworthy feature of the sample examined here. Otherwise, splinter use is known from the Thessalian Neolithic. Overall, variability in blanks, shaping processes, tool types and sizes could be observed despite the limited number of artefacts analysed. This evidence was compared to tool use data. Scraping and perforation of soft animal materials and working with plant fibres were recorded. Hide working seems to have been more common, which concurs with the findings of the analysis of the chipped stone industries. Variations in tool damage were observed. In the perforators of animal materials, discard could be related to apex wear and likely difficulties in repairing tools without major modification of their shapes and sizes. Use data helped examine choices made with regard to the types and dimensions of tools used for similar tasks. The main elements of the local bone technology are summarised at the end of the chapter.

V.4. Clay Spinning and Weaving Implements

(Christopher Britsch)

V.5. Various Clay and Sherd Tools

(Eva Alram-Stern)

These chapters deal with objects formed of clay or sherds modified for secondary use. In addition to two spindle whorls dating to the early Late Neolithic settlement strata, pierced sherd discs, mainly from Middle Neolithic contexts, are examined for their potential use as spindle whorls. Four loom weights deriving from early Late Neolithic strata point to a more specialised textile production during this period at the site. Sling bullets coming from Middle Neolithic and early Late Neolithic contexts were exclusively formed of clay. Ovoid instruments of coarse and gritty clay are interpreted as scrapers. Rounded sherds of various sizes are most abundant during the early Late Neolithic settlement strata. According to their variation in size and their abundance in these later strata, they are not considered as intermediate products of pierced sherd discs, and various suggestions for their purpose are given. Eight-shaped sherd tools may have had the same purpose. Several sherds with smoothed breaks may have been used as burnishers.

VI. Figurines, House Model and Ritual Vessels

(Eva Alram-Stern)

Following the stratigraphic sequence of Trench A of PMZ, the figurines are analysed concerning their manufacture, decoration, typology, find circumstances and fragmentation, showing major typological and depositional changes during the later Middle Neolithic period. While steatopygous figurines are characteristic for the earlier Middle Neolithic periods (BPh II–V), MN III and the transitional phase of the Middle/Late Neolithic period (BPh VI to BSpH VIIa) are dominated by schematic figurines. LN I figurines are only defined by finds in post-Neolithic layers and are characterised by their production in typical Late Neolithic pottery wares. By comparing them with other finds in Thessaly and beyond, the figurines of PMZ show long-distance relations, but also regional similarities, especially visible during MN III and the transitional Middle/Late Neolithic periods, which point to the existence of networks connecting PMZ with the neighbouring western Thessalian sites. One of the most important finds from PMZ is the house model and its figurines and miniatures found in situ. They are evaluated in a separate part of this chapter in their context by relating the figurines to each other. In summary, the house model is connected to the destruction layer of the MN III/LNI stratum (BSpH VIIa) and therefore to the burial of its house. Thus, the lying position of the figurines, which was planned from the very beginning, demonstrates that the figurines were thought of as being put to sleep, probably forever. Furthermore, the house model is an effigy of a social group consisting of an extended family as well as a woman connected to them by her activities in the household. This effigy illustrates that the role of women was more active in the house, while males play only a minor role here, having their main task outside the house. The material presented here is supplemented by animal figurines, vessel attachments, anthropomorphic vessels, a table and a miniature bowl.

VII. The Ornaments

(*Nina Kyparissi-Apostolika*)

The inventory of ornaments from PMZ is limited, consisting of only 16 items, 11 of which come from the Neolithic deposit. Despite their limited number, all the usual materials found in other Neolithic sites, such as shell, stone, clay and one animal tooth were used. Included among these are two bracelets of different type, one big barrel-shaped bead and one perforated valve of *Spondylus gaederopus* seashell; additionally, three pieces, now missing, with a pair of holes each were also made from shell. Two ornaments are made from pebbles that were also perforated. In the group of the clay ornaments, namely beads, the one that comes from the deep Neolithic deposit has a natural curved shape, while others found in the Bronze Age depot have more artificial shapes, but these fall outside the remit of this publication. One perforated animal tooth has decorative incisions, while there is one round-shaped object without a hole, whose use is debatable. Judging by the small number of ornaments found, we can assume that they were not fabricated in situ, but they were rather imported to the site as precious goods. The exception could be the three missing pieces, which were found all together, they are stylistically similar but different from the rest and they could have been made by a local ‘artist’. Despite their rarity, the ornaments from PMZ can give important information about their origin and the period in which they circulated. Of course, as very little of this settlement is excavated so far, a more extensive excavation in the future could overturn this evaluation.

VIII. Archaeobotanical and Zooarchaeological Remains – Revisited

(*Paul Halstead*)

The archaeobotanical and (more abundant) zooarchaeological remains recovered from Neolithic and Bronze Age levels at PMZ were studied and reported in the 1990s. The former, identified by Helmut Kroll and Glynis Jones, were reported by Cornelia Becker¹²⁷¹ and Glynis Jones – Paul Halstead,¹²⁷² respectively. The latter were analysed and reported by Becker.¹²⁷³ Neither assemblage has been re-examined for the present brief contribution, the purpose of which is to review the original publications in the light of relevant subsequent discoveries and debates. This review begins by considering how typical or atypical the PMZ data are in the context of Neolithic to Bronze Age Greece, before discussing broader issues of land use and food consumption.

IX. The Physical and Social Landscape of Neolithic Platia Magoula Zarkou

(*Stella Souvatzi*)

This chapter examines the physical and social landscape of PMZ during the Neolithic period and the ways in which space was configured and conceptualised, through analysis of integrated evidence from geology, geophysics, the environment, the stratigraphy, the architecture and settlement patterns, as well as from plants, animals and material culture. The chapter approaches the landscape as a social and historical construct and the human-environment relationship as dynamic and continuously interactive. Key issues include: i) the human-physical landscape interaction, with special attention to the local particularities and the indications of frequent flooding in the surroundings of the tell during the Neolithic; ii) the possible presence of surrounding ditches and their function and meaning; iii) the settlement type attested for PMZ and its social and historical

¹²⁷¹ Becker 1991, 77–78, tab. 14.

¹²⁷² Jones – Halstead 1993.

¹²⁷³ Becker 1991; Becker 2000.

significance; iv) the existence of a rare cremation cemetery and its relationship to, and meaning for, the settlement; and v) the position of PMZ within the wider physical and social landscape of newly and previously excavated Neolithic settlements in Thessaly, through detailed analysis of local and regional settlement patterns and through comparisons, contrasts and ways of interaction between PMZ and other contemporary sites. The physical, socio-spatial and temporal practices analysed in the chapter suggest that, despite its rather remote location and the potential problems with flooding, PMZ was a complex and dynamic site that interacted intensely and diversely with its physical and social environment and that it could be seen as a socially stable place within a wider landscape characterised by variability and changes. The results shed new light onto how the relationship between people, land and time may have been constituted and call for greater awareness of human perception, agency and knowledge.

X. Platia Magoula Zarkou in Context: Summary and Conclusions

(Eva Alram-Stern – Giorgos Toufexis)

This chapter summarises the results of the contributions of this volume. By putting them together, a new picture of this permanently settled tell emerges. In particular, the integration of the finds with the absolute and the relative chronology of the settlement sequence gives a new understanding of the cultural change taking place during the Middle Neolithic (5969–5754calBC [2σ]) and early Late Neolithic (latest absolute date: 5545–5472calBC [2σ]) phases of the tell: By comparing the six ceramic horizons with the five lithic phases (developed for chipped stone tools) and the three figurine horizons, we realise that all artefact groups show a continuous development during MN I and II. However, a distinct cultural change is evident for MN III, the transition from MN III to LN I (Ceramic Horizon 5) and LN I (Ceramic Horizon 6). In all these artefact groups the changes in style and type are related to a different chronological phase. For LN I, a new style (pottery, figurines) and new artefact types (chipped stone tools) are evident. Therefore, we should consider this time as a phase representing new cultural dynamics. This picture is confirmed by the change seen in textile tools, rounded sherds and ornaments. Furthermore, for PMZ, western Thessalian regional distribution networks are defined by the circulation of radiolarite (from the Pindos Mountains) as well as by figurines indicating interconnectivity of communities on the Western Thessalian Plain. Interregional contacts with the sea are confirmed by the occurrence of obsidian from Melos and a few ornaments of seashell. In summary, we consider PMZ as a nodal point connecting the Western and the Eastern Thessalian Plain. However, since many western Thessalian sites are still being studied, we are not able to determine the exact social and economic position of PMZ within this exchange network. Furthermore, its cultural development still has to be considered in relation to these sites.

Περίληψεις

I. Εισαγωγή: Χρονικό ανασκαφών και ερευνών 1974–1990

(Κώστας Γαλλής)

Μετά την ανακάλυψη ενός νεκροταφείου με ταφές καύσεων, οι ανασκαφές στην Πλατιά Μαγούλα Ζάρκου διενεργήθηκαν με στόχο τη διόρθωση της νεολιθικής χρονολόγησης της Θεσσαλίας. Η μελέτη της κεραμικής απέδειξε ότι η «φάση Λάρισα» που χρονολογούνταν παλαιότερα στο τέλος της Νεολιθικής περιόδου, συμπίπτει στην πραγματικότητα με τη «φάση Τσαγγλί» στην αρχή της Νεότερης Νεολιθικής περιόδου. Επιπλέον, το υλικό φανέρωσε μια προοδευτική εξέλιξη της κεραμικής καθώς και μια πλούσια τοπική κεραμική παράδοση. Ένα άλλο πολύ ενδιαφέρον εύρημα της ανασκαφής αποτελεί το ανοικτό ομοίωμα σπιτιού που περιέχει ειδώλια, το οποίο ρίχνει φως στη μελέτη της Νεολιθικής κοινωνίας. Περαιτέρω έρευνα περιελάμβανε ένα γεωαρχαιολογικό πρόγραμμα για τη σχέση της θέσης με το περιβάλλον της.

II. Το περιβάλλον και η εξέλιξή του γύρω από τη μαγούλα

II.1. Η εξέλιξη της Κοιλιάδας της Πηνειάδας στην Κεντρική Ελλάδα κατά το ύστερο Τεταρτογενές και οι επιδράσεις της στην κατανομή των οικισμών της νεολιθικής και ιστορικής περιόδου

(Riccardo Caputo – Bruno Helly – Δήμητρα Ράπη – Σωτήρης Βαλκανιώτης)

Για να αναπαραστήσουμε το Νεολιθικό περιβάλλον και τις γεωγραφικές συνθήκες στην Πλατιά Μαγούλα Ζάρκου και στο περιβάλλον της, ερευνήσαμε τη γεωλογική και γεωμορφολογική εξέλιξη του ευρύτερου συστήματος του Πηνεϊού Ποταμού και ειδικότερα της Κοιλιάδας της Πηνειάδας, όπου βρίσκεται ο αρχαιολογικός οικισμός. Η ανάλυση και εκ νέου ερμηνεία των γεωλογικών και ιστορικών/σύγχρονων τοπογραφικών δεδομένων δείχνουν καθαρά μια διαίρεση της Θεσσαλίας σε δύο χωριστά ενδορροϊκά υδρογραφικά δίκτυα, τις περιοχές Καρδίτσας και Λάρισας. Αυτές οι δύο λεκάνες καλύπτονταν εν μέρει από λιμναία ύδατα και/ή ελώδεις περιοχές μέχρι την ύστερη Αρχαιότητα, κατά τόπους δε ακόμη και στις πρόσφατες ιστορικές περιόδους. Ανάμεσα τους βρίσκεται η Κοιλιάδα της Πηνειάδας όπου η λεπτομερής γεωλογική έρευνα επέτρεψε να χαρτογραφήσουμε λεπτομερώς τη μορφολογία του πυθμένα πριν την προσχλωσιγενή πλήρωσή της, υποδεικνύοντας ότι πιθανώς αντιπροσώπευε την κατώτερη εμβέλεια του Τιταρήσιου ποταμού που αποστραγγιζόταν στη λεκάνη της Καρδίτσας. Αυτό συνέβαινε μέχρι το Ύστερο Πλειστόκαινο όταν η τεκτονική δραστηριότητα κατά μήκος των ρηγμάτων του Τυρνάβου και της Λάρισας, εξέτρεψαν τον ποταμό προς την περιοχή της Λάρισας. Κατά συνέπεια, στη Νεολιθική εποχή το δυτικό τμήμα της Κοιλιάδας της Πηνειάδας χαρακτηριζόταν από ποταμολιμναίες προς ελώδεις συνθήκες και κατά συνέπεια ο οικισμός της Πλατίας Μαγούλας Ζάρκου ιδρύθηκε σε ένα είδος παράκτιου περιβάλλοντος ενός στενού κόλπου. Εν τω μεταξύ, τα «δυτικά» ποτάμια πληρούσαν με τις προσχώσεις τους προοδευτικά τη λεκάνη της Καρδίτσας και άρχισαν να σχηματίζουν ένα υδρογραφικό δίκτυο στην πεδιάδα. Παρόλα αυτά, μόνον κατά τους ιστορικούς χρόνους η κοιλάδα της Πηνειάδας επηρεάστηκε από ποτάμιες προσχώσεις αναγκάζοντας την αλλουβιακή πεδιάδα να επεκταθεί προς τα Ανατολικά φθάνοντας μέχρι το υψόμετρο της αναβαθμίδα στο φαράγγι Καλαμακίου. Το τελευταίο αυτό φαινόμενο καθόρισε οριστικά τη συνεχή υδρογραφική σύνδεση ανάμεσα στη Δυτική και Ανατολική Θεσσαλία.

II.2. Γεωφυσικές έρευνες (Απόστολος Σαρρής – Tuna Kalayci – James Donati)

Η γεωφυσική διασκόπηση μπόρεσε να επισημάνει διάφορες λεπτομέρειες σχετικά με την οικιστική έκταση γύρω από την Πλατιά Μαγούλα Ζάρκου. Επιβεβαίωσε ότι ο οικισμός ιδρύθηκε στο άκρο μιας έντονης πλημμυρικής ζώνης και ότι στη διάρκεια της Μέσης Νεολιθικής περιόδου περιβαλλόταν από δύο ρέματα που έρρεαν από Βορρά προς τις δυτικές και ανατολικές πλευρές της μαγούλας. Οι ταφές του νεκροταφείου προς Βορρά που είχαν αποκαλυφθεί παλαιότερα με ανασκαφές, βρίσκονταν πιθανότατα σε ένα υπερυψωμένο γεωλογικό σχηματισμό στο όριο της πλημμυρικής ζώνης σε συμφωνία με τα συμπεράσματα των Caputo κ. ά.¹²⁷⁴ Η έρευνα παρέσχε ενδείξεις για κτιστούς περιβόλους (ή τάφρους) που περιέβαλαν τη μαγούλα λειτουργώντας, μεταξύ άλλων, ως αντίμετρα κατά των πλημμυρικών επεισοδίων. Η ανθρωπογενής δραστηριότητα σε γενικές γραμμές περιοριζόταν σε ζώνες αμέσως κάτω από τη μαγούλα, με εξαίρεση το Βορειοδυτικό τομέα όπου ένας αριθμός θερμικών κατασκευών απλώνονται αραιά σε απόσταση 70μ. από τη μαγούλα. Μια πυκνότερη διασπορά με κατάλοιπα κατασκευών (της Πρώιμης Εποχής του Χαλκού;) απλώνεται κατά μήκος ενός χαμηλού αναγλύφου προς Νοτιοανατολικά, επιβεβαιώνοντας τη συνέχιση της κατοίκησης σ' αυτήν την περιοχή.

III. Στρωματογραφία και Αρχιτεκτονική (Γιώργος Τουφεξής – Χρήστος Μπατζέλας)

Η Πλατιά Μαγούλα Ζάρκου αποτελεί μια εντυπωσιακή μαγούλα (tell) με αρχαιολογικές επιχώσεις πάχους περ. 10μ., εκ των οποίων πάνω από τις μισές χρονολογούνται στη Μέση και πρώιμη Νεότερη Νεολιθική περίοδο (επιχώσεις πάχους περ. 5.80μ.), ενώ οι υπόλοιπες στην Πρώιμη και Μέση Εποχή του Χαλκού. Οι ανασκαφές διεξήχθησαν το διάστημα 1976–1990 και είχαν στρωματογραφικό προσανατολισμό με στόχο τη χρονολογική αποσαφήνιση της λεγόμενης «φάσης Λάρισα». Αγγεία αυτής της περιόδου βρέθηκαν νωρίτερα στο νεκροταφείο του οικισμού μαζί με γκρίζα αγγεία της «φάσης Τσαγγλί». Παρόλα αυτά, η ανάλυση της στρωματογραφίας και της αρχιτεκτονικής του οικισμού αν και διατηρήθηκε πολύ αποσπασματικά, θα μπορούσε να δια φωτίσει κάπως τις πρακτικές δόμησης καθώς και κάποιες πτυχές για τη χρήση του ενδοκοινοτικού χώρου. Συνολικά διακρίθηκαν εννέα οικοδομικές φάσεις (BPh I–IX) με διάφορες υποφάσεις που αντιστοιχούν στις κεραμικές φάσεις 1–6. Με βάση την κεραμική, οι φάσεις BPh I–VI χρονολογήθηκαν στη Μέση Νεολιθική I–III, η φάση BPh VIIa στη μετάβαση από τη Μέση στη Νεότερη Νεολιθική και οι φάσεις BPh VIIb–IX στη Νεότερη Νεολιθική, καλύπτοντας συνολικά μια περίοδο περ. 400 χρόνων σύμφωνα με τις ραδιοχρονολογήσεις. Η στρωματογραφική ακολουθία ήταν συνεχής σε όλο το πάχος των Νεολιθικών επιχώσεων και δε διαπιστώθηκε διακοπή. Στην αρχαιότερη φάση BPh I αποδόθηκε μόνον ένα τμήμα ρηχής τάφρου που σκάφτηκε στο φυσικό αλλουβιακό έδαφος, ενώ τάφροι δε βρέθηκαν σε άλλες φάσεις. Τα σπίτια ήταν κτισμένα με πασσάλους και άφθονο πηλό πιθανόν σε συνδυασμό πασσάλων και στοιβαχτού πηλού (τεχνική *pisé*)· υπήρχαν, επίσης, σπίτια με τοίχους με χαμηλή λίθινη θεμελίωση και ανωδομή με πλιθιά καθώς και πασσαλόπηκτοι τοίχοι. Στις φάσεις BPh IV και VI τα σπίτια κτίστηκαν το ένα πάνω στο άλλο. Στις φάσεις BPh IV και VII τα σπίτια είχαν καεί, ενώ το γνωστό ομοίωμα σπιτιού βρέθηκε στα καμένα ερείπια ενός σπιτιού της φάσης BPh VIIa. Στη φάση BPh VI βρέθηκαν πιθανόν «βοηθητικά» κτίσματα σπιτιών. Οι θερμικές κατασκευές βρέθηκαν κυρίως σε ανοικτούς χώρους και αυλές καθώς επίσης και στο εσωτερικό κτισμάτων και εξυπηρετούσαν κυρίως μαγειρικές δραστηριότητες. Οι ισοπεδώσεις φαίνεται ότι έπαιξαν σημαντικό ρόλο στη στρωματογραφία του οικισμού και ήταν συχνές εξαιτίας των περιορισμών του οικιστικού χώρου, όπως είναι αναμενόμενο στους οικισμούς τύπου μαγούλας. Επίσης, διαπιστώθηκε εναλλαγή δομημένων και ανοικτών/ημιυπαίθριων τους ή αυλών. Η ανάλυση αναζήτησε, επίσης, αναλογίες και διαφοροποιήσεις με τους γειτονικούς και πιο μακρινούς οικισμούς.

¹²⁷⁴ Caputo et al., this volume, 48.

**IV. Απόλυτη χρονολόγηση των ανασκαφών:
Ραδιοχρονολόγηση και μοντέλα στρωματογραφικής ηλικίας**
(Bernhard Weninger – Γιώργος Τουφεξής – Χρήστος Μπατζέλας)

Στο κεφάλαιο αυτό, τα δεδομένα των ραδιοχρονολογήσεων του Πίνακα IV.2.1, θα χρησιμοποιηθούν για τον καθορισμό της απόλυτης (ημερολογιακής) χρονολόγησης των Νεολιθικών στρωμάτων της Πλατιάς Μαγούλας Ζάρκου. Η ανάλυση περιλαμβάνει ένα σύνολο δέκα ραδιοχρονολογήσεων σε βραχύβια δείγματα από (αποκλειστικά) οστά ζώων. Τα αποτελέσματα του χρονικού εύρους της στρωματογραφίας με χρονολογήσεις Άνθρακα-14 (^{14}C) παρουσιάζονται στην Εικόνα IV.2.5. Η ανάλυση βασίστηκε στην Gaussian Monte Carlo Προσομοίωση Κυμάτων (GMCWM), όπως εφαρμόστηκε στο πρόγραμμα CalPal (Έκδοση 2019.5). Όπως αποδείχθηκε, εξαιτίας της έλλειψης σε μεγάλο βαθμό αυξομειώσεων στην καμπύλη βαθμονόμησης με ^{14}C στην υπό μελέτη περίοδο (5900–5500 calBC), σε συνδυασμό με την εξαιρετική γραμμικότητα που παρουσιάζει η συσσώρευση των νεολιθικών επιχώσεων της Πλατιάς Μαγούλας Ζάρκου και την υψηλή ακρίβεια των χρονολογήσεων με ^{14}C που πραγματοποιήθηκαν στο Εργαστήριο της Χαϊδελβέργης-AMS, η εφαρμογή του μοντέλου GMCWM παρήγαγε, επίσης, ασυνήθιστα ακριβή χρονολογικά αποτελέσματα. Ωστόσο, αν και οι αποκλίσεις στις ηλικίες που βασίζονται στην επεξεργασία με το μοντέλο Monte Carlo κυμαίνονται από ένα 1 έως δέκα τέσσερα έτη (πιθανότητα 95%), υποστηρίζουμε, ωστόσο, ότι τα αληθινά (πραγματικά) σφάλματα χρονολόγησης είναι πιθανότερο της τάξης των 20–50 ετών (95% πιθανότητα). Η επιφύλαξη αυτή στην ερμηνεία των σφαλμάτων χρονολόγησης θα ενδεικνυόταν, ιδιαιτέρως, προκειμένου να προληφθεί η έλλειψη (ποσοτικής) κατανόησης των πολιτισμικών, γεωφυσικών και ιζηματολογικών διαδικασιών που εμπεριέχονται στις παρατηρούμενες (μετρικές) κανονικότητες (τουλάχιστον) στην κατακόρυφη συσσώρευση των επιχώσεων της μαγούλας.

V. Τα εργαλεία

V.1. Τα σύνολα εργαλείων λαξεμένου λίθου
(Catherine Perlès – Λυγερή Παπαγιαννάκη)

Οι λιθοτεχνίες λαξεμένου λίθου από την Πλατιά Μαγούλα Ζάρκου μελετήθηκαν παράλληλα από τεχνολογική και ιχνολογική σκοπιά, με σκοπό να διαπιστωθούν διαχρονικές αλλαγές στις στρατηγικές προμήθειας των πρώτων υλών, στις τεχνικές κατασκευής καθώς και στους τύπους και τις χρήσεις των εργαλείων στη διάρκεια της Μέσης Νεολιθικής και στη μετάβαση από τη Μέση στη Νεότερη Νεολιθική. Βάσει των παραπάνω, προσδιορίστηκαν πέντε φάσεις. Οι πρώτες τέσσερις παρουσιάζουν αδιαμφισβήτητη συνέχεια από όλες τις απόψεις, αν και μπορούν να παρατηρηθούν, επίσης, πιο μακροπρόθεσμες τάσεις. Η τελευταία φάση που χρονολογείται στην πρώιμη Νεότερη Νεολιθική διαφέρει πιο έντονα. Τα σύνολα των εργαλείων είναι μικρά σε αριθμό, γεγονός που μπορεί να αποδοθεί στην απουσία τοπικών πρώτων υλών και στο ότι παρά την τοποθεσία της που θα φαινόταν ευνοϊκή, η Πλατιά Μαγούλα Ζάρκου φαίνεται ότι παρέμεινε σε περιθωριακή θέση όσον αφορά τα δίκτυα ανταλλαγών του ραδιολαρίτη και οψιανού στη Θεσσαλία. Τρεις τρόποι παραγωγής εργαλείων μπορούν να αναγνωριστούν: πρώτον, μια τοπική μη ειδικευμένη παραγωγή φολίδων από ποταμίσια βότσαλα. Το υψηλό ποσοστό επεξεργασμένων και μη φολίδων σε σύγκριση με τις λεπίδες και τις μικρολεπίδες είναι πράγματι μία από τις ιδιαιτερότητες των συνόλων εργαλείων της Πλατιάς Μαγούλας Ζάρκου. Δεύτερον, μια περιορισμένη τοπική παραγωγή μικρολεπίδων οψιανού από πλανόδιους τεχνίτες και τρίτον, μία περιορισμένη διακίνηση λεπίδων από «κοινούς» πυριτόλιθους (chert) και μελί πυριτόλιθο. Δεδομένης της περιορισμένης πρόσβασης σε πρώτες ύλες, ο βαθμός επεξεργασίας των εργαλείων είναι υψηλός και τα εργαλεία ήταν συχνά εντόνως επεξεργασμένα. Τα ένθετα στοιχεία δρεπανιών επικρατούν στις πρώτες τρεις φάσεις αλλά στη συνέχεια ελαττώνονται, όπως συμβαίνει και στα στοιχεία δρεπανιών σε υπόβαθρο φολίδας που επικρατούν στις πιο πρώιμες φάσεις. Στον εργαλείακό εξοπλισμό μπορεί να παρατηρηθεί μία προοδευτική διαφοροποίηση. Η επεξεργασία

δερμάτων είναι η καλλίτερα αντιπροσωπευόμενη δραστηριότητα μετά το θειισμό αλλά τα εργαλεία που χρησιμοποιήθηκαν ήταν ποικίλα -ξέστρα, φολίδες, λεπίδες- και μη εξειδικευμένα. Στη φάση 5 το ποσοστό του οψιανού είναι ασήμαντο αλλά η τυπολογική σύνθεση είναι πιο ισορροπημένη και το εύρος των υλικών που επεξεργάζονται είναι περισσότερο διαφοροποιημένο: δημητριακά, ξύλο, δέρματα. Τα όπλα είναι, επίσης, σπάνια με λίγες τράπεζες και αιχμές βελών με εγκάρσια επεξεργασία στις φάσεις 3 και 4, ενώ απουσιάζουν τα κοπτικά εργαλεία για την επεξεργασία κρέατος. Όλοι οι τύποι εργαλείων που βρέθηκαν στην Πλατιά Μαγούλα Ζάρκου είναι γνωστοί από άλλους οικισμούς της Θεσσαλίας, αν και συχνά είναι σπάνιοι: για παράδειγμα, οι αιχμές βέλους με εγκάρσια επεξεργασία, οι λεπίδες-δρεπάνια που φέρουν μπροστινή απόληξη ξέστρου και τα ένθετα στοιχεία δρεπανιών σε φολίδες με απότομη πλευρική επεξεργασία. Η καλή αντιπροσώπευση αυτών των σπάνιων τύπων εργαλείων στη λιθοτεχνία λαξεμένου λίθου της Πλατιάς Μαγούλας Ζάρκου σε συνδυασμό με την απουσία άλλων τύπων, όπως οι σφηνίσκοι σε υπόβαθρο λεπίδων, τη διακρίνει από τα σύνολα λιθοτεχνίας άλλων οικισμών και ενισχύει την εντύπωση μιας αξιοσημείωτης ιδιοσυγκρασιακής συνέχειας, ιδιαίτερα στη Μέση Νεολιθική. Η αλληλεπίδραση μεταξύ της διαθεσιμότητας των πρώτων υλών, των δραστηριοτήτων που λάμβαναν χώρα στην Πλατιά Μαγούλα Ζάρκου και των τύπων των εργαλείων που επιλέχθηκαν για τη διεκπεραίωσή τους, προσδίδει μια ισχυρή και ξεχωριστή προσωπικότητα στις λιθοτεχνίες λαξεμένου λίθου της Πλατιάς Μαγούλας Ζάρκου.

V.1.11. Παράρτημα 3. Γεωχημική προέλευση των εργαλείων λαξεμένου λίθου της Πλατιάς Μαγούλας Ζάρκου

(*Michael Brandl – Christoph A. Hauzenberger – Peter Filzmoser – Maria M. Martinez*)

Οι μελέτες για την προέλευση των λίθινων πρώτων υλών για την παραγωγή εργαλείων, αποτελεί ένα από τα κλειδιά για την ανασύσταση της προϊστορικής οικονομίας. Η εξακρίβωση της γεωλογικής προέλευσης των λίθινων τέχνηργων επιτρέπει περαιτέρω έρευνες και έλεγχο υποθέσεων στο πλαίσιο ή τη διαχείριση των πόρων διατυπώνοντας ερωτήματα σχετικά με τις στρατηγικές προμήθειάς τους. Στην περίπτωση μελέτης από την Πλατιά Μαγούλα Ζάρκου η Πολυεπίπεδη Προσέγγιση Προμήθειας Πυριτόλιθου (Multi Layered Chert Sourcing Approach – MLA) οδήγησε σε μια σαφή διαφοροποίηση των πυριτικών πετρωμάτων (πυριτόλιθου και ραδιοαλαρίτη) της Θεσσαλίας συνδυάζοντας πετρογραφικές έρευνες, γεωχημικές αναλύσεις ιχνοστοιχείων με τη χρήση LA-ICP-MS και τη στατιστική αξιολόγηση δεδομένων με τη Συνθετική Ανάλυση Δεδομένων (Compositional Data Analysis-CODA). Στην Πλατιά Μαγούλα Ζάρκου ο πυριτόλιθος και ο ραδιοαλαρίτης χρησιμοποιήθηκαν ευρέως για την παραγωγή εργαλείων λαξεμένου λίθου, αλλά ποτέ στο παρελθόν δεν είχαν διεξαχθεί συστηματικές έρευνες για την προέλευσή τους. Το πιλοτικό πρόγραμμά μας μπόρεσε να αποκαλύψει την προέλευση επιλεγμένων λίθινων εργαλείων του οικισμού, να εντοπίσει πρωτογενείς και δευτερογενείς πηγές του αινιγματικού «ραδιοαλαρίτη της Πίνδου» και να προσδιορίσει την οροσειρά του Κόζιακα με τα γειτονικά ποτάμια της ως μια εκτεταμένη πηγή προέλευσής του για τις πρώιμες γεωργοκτηνοτροφικές κοινότητες της Δυτικής Θεσσαλικής πεδιάδας.

V.2. Τα μακρολιθικά εργαλεία της Πλατιάς Μαγούλας Ζάρκου: μια Θεσσαλική λιθοτεχνία στο Αιγαϊακό Νεολιθικό της πλαίσιο (*Άννα Στρούλια*)

Παρά την σημαντική πρόοδο που έχει σημειωθεί πρόσφατα στη μελέτη των μακρολιθικών (γνωστών και ως τριπτών) αντικειμένων του Νεολιθικού Αιγαίου, οι γνώσεις μας για τις σχετικές λιθοτεχνίες της Θεσσαλίας είναι πολύ περιορισμένες. Εστιάζοντας στο υλικό της Πλατιάς Μαγούλας Ζάρκου, το συγκεκριμένο κεφάλαιο έχει ως στόχο να συμβάλει στην αντιμετώπιση αυτού του ερευνητικού κενού. Η ανασκαφή των Νεολιθικών επιχώσεων της θέσης απέδωσε περίπου 130 μακρολιθικά τέχνηργα. Η πλειονότητά τους ανήκει στη Μέση Νεολιθική περίοδο, περίπου το ένα τέταρτο χρονολογείται στη Νεότερη Νεολιθική, ενώ ένας μικρός αριθμός αποδίδεται στη μεταβατική περίοδο ανάμεσα στις δύο φάσεις. Με βάση τεχνολογικά

χαρακτηριστικά, το υλικό διακρίθηκε σε πέντε κατηγορίες: 1) εργαλεία τριβής και λείανσης 2) εργαλεία με κόψη 3) εργαλεία κρούσης 4) εργαλεία με στενές αυλακώσεις και 5) διάφορα. Το κεφάλαιο κινείται σε τρεις κατευθύνσεις καθώς παρουσιάζει συστηματικά τα εργαλεία της κάθε κατηγορίας ακολουθώντας τα κύρια στάδια της βιογραφίας τους, συζητά τα συγχρονικά/διαχρονικά συμφραζόμενά τους και θέτει τη συγκεκριμένη Θεσσαλική λιθοτεχνία στο ευρύτερο Αιγαιακό Νεολιθικό της πλαίσιο.

V.3. Οστέινα εργαλεία (Ροζαλία Χρηστίδου)

Δεκαεννέα οστέινα αντικείμενα από τα στρώματα της Μέσης και πρώιμης Νεότερης Νεολιθικής της Πλατιάς Μαγούλας Ζάρκου στη Θεσσαλία μελετήθηκαν από μορφολογική και τεχνολογική άποψη, για να συμπληρώσουν την προηγούμενη παρουσίαση των επεξεργασμένων οστών από αυτή τη θέση. Εξετάστηκε επίσης η διατήρηση των αντικειμένων. Οι αλλοιώσεις τους από τη μύση από ζώα, την αποσάθρωση και την καύση συσχετίστηκαν, όταν ήταν δυνατό, με τα ιδιαίτερα χαρακτηριστικά των ανασκαμμένων επιχώσεων. Μόνο ένα αντικείμενο, ένα μετατάρσιο κόκκινου ελαφιού, που αυλακώθηκε με σκοπό τον κατά μήκος τεμαχισμό του, κατατάσσεται στα κατάλοιπα επεξεργασίας των οστών· τα υπόλοιπα είναι ολοκληρωμένα από κατασκευαστική άποψη και χρησιμοποιημένα εργαλεία, από τα οποία δεκατρία είχαν αιχμηρό ενεργό άκρο και δύο απέληγαν σε κόψη. Τέσσερα διατηρούν ίχνη επιδιόρθωσης του ενεργού άκρου. Μοναδικό στη Νεολιθική συλλογή είναι μεσαίο θραύσμα λειαντήρα από πλευρά βοδιού, το οποίο έδειξε ότι αυτό το τμήμα του εργαλείου ήταν ενεργό. Το αυλακωμένο μετατάρσιο κόκκινου ελαφιού συσχετίστηκε με ζωοαρχαιολογικά δεδομένα που δείχνουν τη σφαγή αυτού του είδους θηράματος εκτός του κατοικημένου χώρου και τη μεταφορά επιλεγμένων μερών του σώματός του στον οικισμό. Τα περισσότερα αντικείμενα ήταν κατασκευασμένα από θραύσματα σπασμένων οστών που απαντούν συχνά στα απορρίμματα του οικισμού και προέρχονται κυρίως από αιγοπρόβατα και χοίρους. Υποδεικνύουν επάρκεια των πρώτων υλών των οστέινων εργαλείων. Οι τύποι των θραυσμάτων έδειξαν επιλεκτικότητα εκ μέρους των κατασκευαστών των εργαλείων. Συσχετίστηκαν επίσης με τους τρόπους διαμόρφωσης αυτών των αντικειμένων. Αυτή γινόταν συνήθως χωρίς μεγάλη προσπάθεια, ξύνοντας με την κόψη λίθινου εργαλείου. Η τριβή με λεπτόκοκκα υλικά αποσκοπούσε σε μικρής έκτασης επεμβάσεις. Αδρή επεξεργασία παρατηρήθηκε κατά την αφαίρεση μεγαλύτερης ποσότητας οστού και μεγαλύτερης μεταβολής της μορφής του. Αφορούσε συγκεκριμένες διαδικασίες κατασκευής οπέων από μεταπόδια αιγοπροβάτων, οι οποίες είναι γνωστές και από άλλα σύνολα Νεολιθικών οστέινων εργαλείων από τη Θεσσαλία. Η χρήση θραυσμάτων που προήλθαν από σπειροειδείς και λοξές τομές των κνημών των ίδιων ζώων αποτελεί ακόμη ένα χαρακτηριστικό αυτών των συνόλων. Δεν υπάρχουν αρκετά δημοσιευμένα στοιχεία για να γίνει σύγκριση της προέλευσης και της μορφολογίας των παρασχίδων από επιμήκη οστά, οι οποίες συνιστούν ένα αξιοσημείωτο χαρακτηριστικό των οστέινων εργαλείων από την Πλατιά Μαγούλα Ζάρκου. Αλλιώς η χρήση παρασχίδων είναι γνωστή από τη Νεολιθική Θεσσαλία. Παρά το μικρό αριθμό αντικειμένων που εξετάστηκε, διαφάνηκε ποικιλία στις πρώτες ύλες, τους τρόπους διαμόρφωσης, τους τύπους και το μέγεθος των εργαλείων. Τα δεδομένα από την ανάλυση των ιχνών χρήσης των εργαλείων έδειξαν ότι αυτά χρησιμοποιήθηκαν για την απόξεση και τη διάτρηση μαλακών υλικών ζωικής προέλευσης και την επεξεργασία φυτικών ινών. Η επεξεργασία δερμάτων ήταν συχνότερη, δεδομένο που συμφωνεί με τα αποτελέσματα της ανάλυσης των εργαλείων από αποκρουσμένο λίθο. Διαπιστώθηκαν διαφορές στο βαθμό φθοράς των οστέινων εργαλείων. Μάλιστα, η απόρριψη των οπέων που χρησίμευσαν στην επεξεργασία ζωικών πρώτων υλών συσχετίστηκε με δυσκολίες στην αποκατάσταση της αιχμής αυτών των εργαλείων χωρίς σημαντική τροποποίηση της μορφής και του μεγέθους τους. Η μελέτη της χρήσης των εργαλείων συνέβαλε στην καλύτερη κατανόηση των τύπων και των διαστάσεών τους. Τα συμπεράσματα της ανάλυσης παρουσιάζονται στο τέλος του κεφαλαίου.

V.4. Πήλινα εργαλεία γνεσίματος και υφαντικής
(*Christopher Britsch*)

V.5. Διάφορα εργαλεία από πηλό και όστρακα
(*Eva Alram-Stern*)

Το κεφάλαιο αυτό πραγματεύεται πήλινα αντικείμενα ή όστρακα που τροποποιήθηκαν για δευτερογενή χρήση. Εκτός από τρία σφοντύλια που προέρχονται από οικιστικά στρώματα της πρώιμης Νεότερης Νεολιθικής, δισκοειδή διάτρητα όστρακα κυρίως από στρώματα της Μέσης Νεολιθικής εξετάζονται για την πιθανή χρήση τους ως σφοντύλια. Τέσσερα πήλινα υφαντικά βάρη από στρώματα της πρώιμης Νεότερης Νεολιθικής δείχνουν μια πιο εξειδικευμένη υφαντουργία στον οικισμό κατά διάρκεια αυτής της περιόδου. Τα βλήματα σφενδονών από στρώματα της Μέσης και πρώιμης Νεότερης Νεολιθικής κατασκευάστηκαν αποκλειστικά από πηλό. Αντικείμενα με ωοειδές σχήμα από αδρό χαλικώδη πηλό ερμηνεύτηκαν ως ξέστρα. Τα αποστρογγυλεμένα όστρακα διαφορετικών μεγεθών είναι περισσότερα στα στρώματα της πρώιμης Νεότερης Νεολιθικής. Με βάση την ποικιλία ως προς το μέγεθος και το μεγάλο αριθμό τους σ' αυτά τα μεταγενέστερα στρώματα, τα αντικείμενα αυτά δε θεωρούνται ως ημιτελή προϊόντα των διάτρητων δισκοειδών οστράκων και δίνονται διάφορες ερμηνείες για τη χρήση τους. Τα οκτώσχημα εργαλεία από όστρακα είχαν πιθανόν την ίδια χρήση. Αρκετά όστρακα με λείες ακμές ίσως χρησιμοποιήθηκαν ως λειαντήρες.

VI. Ειδώλια, ομοίωμα οικίας και τελετουργικά σκεύη

(*Eva Alram-Stern*)

Ακολουθώντας τη στρωματογραφική ακολουθία της Τομής Α της Πλατιάς Μαγούλας Ζάρκου, τα ειδώλια αναλύθηκαν ως προς την κατασκευή, τη διακόσμηση, την τυπολογία, τις συνθήκες εύρεσης και τη θραύση τους, φανερώνοντας σημαντικές αλλαγές στην τυπολογία και την εναπόθεσή τους στη διάρκεια της ύστερης Μέσης Νεολιθικής περιόδου. Ενώ τα στεατοπυγικά ειδώλια είναι χαρακτηριστικά για τις φάσεις της πρώιμης Μέσης Νεολιθικής περιόδου (BPh II–V), στη Μέση Νεολιθική III καθώς και στη μεταβατική φάση της Μέσης/Νεότερης Νεολιθικής περιόδου κυριαρχούν τα σχηματοποιημένα ειδώλια. Τα ειδώλια της Νεότερης Νεολιθικής I προσδιορίζονται μόνον από ευρήματα σε μετα-νεολιθικά στρώματα και χαρακτηρίζονται από την παραγωγή τους σύμφωνα με τα τυπικά κεραμικά σκεύη της Νεότερης Νεολιθικής περιόδου. Συγκρίνοντάς τα με άλλα ευρήματα της Θεσσαλίας και πέραν αυτής, τα ειδώλια της Πλατιάς Μαγούλας Ζάρκου φανερώνουν μακρινές σχέσεις αλλά και περιφερειακές ομοιότητες που είναι ορατές κυρίως κατά τη Μέση Νεολιθική III και τη μεταβατική φάση της Μέσης/Νεότερης Νεολιθικής περιόδου, οι οποίες δείχνουν την ύπαρξη δικτύων που συνδέουν την Πλατιά Μαγούλα Ζάρκου με τις γειτονικές θέσεις της Δυτικής Θεσσαλίας. Ένα από τα σπουδαιότερα ευρήματα της Πλατιάς Μαγούλας Ζάρκου είναι το ομοίωμα σπιτιού με τα ειδώλια και τις μινιατούρες του που βρέθηκαν *in situ*, τα οποία αξιολογούνται σε ξεχωριστό μέρος του παρόντος κεφαλαίου στα συμφραζόμενά τους συσχετίζοντας τα ειδώλια μεταξύ τους. Συνοπτικά, το ομοίωμα σπιτιού σχετίζεται με το στρώμα καταστροφής της Μέσης Νεολιθικής III/Νεότερης Νεολιθικής I (BPh VIIa) και επομένως με την ταφή του σπιτιού του. Έτσι, η ξαπλωμένη στάση των ειδωλίων που είχε σχεδιαστεί εξ' αρχής, δείχνει ότι τα ειδώλια προσλαμβάνονταν ως να είχαν τοποθετηθεί για να κοιμηθούν, πιθανόν για πάντα. Επιπλέον, το ομοίωμα σπιτιού είναι ένα ομοίωμα μιας κοινωνικής ομάδας που αποτελείται από μια εκτεταμένη οικογένεια καθώς και από μια γυναίκα που συνδέεται μαζί τους με τις δραστηριότητές της στο νοικοκυριό. Αυτό το ομοίωμα δείχνει ότι ο ρόλος των γυναικών ήταν πιο ενεργός στο σπίτι, ενώ οι άνδρες έπαιζαν δευτερεύοντα ρόλο έχοντας τα κύρια καθήκοντά τους εκτός σπιτιού. Το υλικό που παρουσιάστηκε εδώ συμπληρώνεται από ειδώλια ζώων, προσαρτήματα σκευών, ανθρωπόμορφα σκεύη, μία τράπεζα και ένα μικύλλο αγγείο.

VII. Τα κοσμήματα (Νίνα Κυπαρίσση-Αποστολικά)

Ο κατάλογος κοσμημάτων της Πλατιάς Μαγούλας Ζάρκου είναι περιορισμένος, αποτελούμενος μόνον από 16 αντικείμενα, 11 από τα οποία προέρχονται από Νεολιθικές επιχώσεις. Παρά τον περιορισμένο αριθμό τους, χρησιμοποιήθηκαν για την κατασκευή τους όλα τα συνήθη υλικά που συναντώνται σε άλλες Νεολιθικές θέσεις, όπως τα όστρεα, ο λίθος και ένα δόντι ζώου. Μεταξύ αυτών υπάρχουν δύο βραχιόλια διαφορετικού τύπου, μια μεγάλη βαρελόσχημη χάντρα και μία διάτρητη θύρα από το θαλάσσιο όστρεο *Spondylus gaederopus*-επιπλέον, από όστρεο ήταν κατασκευασμένα και τρία αντικείμενα με ένα ζευγάρι οπών το καθένα, τα οποία τώρα λείπουν. Δύο κοσμήματα από βότσαλα ήταν επίσης διάτρητα. Από την ομάδα των πήλινων κοσμημάτων δηλαδή των χαντρών, ένα που βρέθηκε σε βαθιά Νεολιθική επίχωση παρουσιάζει φυσικό καμπύλο σχήμα, ενώ τα άλλα από την επίχωση της Εποχής του Χαλκού είχαν πιο έντεχνα σχήματα και δεν περιλαμβάνονται στη δημοσίευση. Ένα διάτρητο δόντι ζώου φέρει διακοσμητικές εγχαράξεις, ενώ υπάρχει ένα κυκλικό αντικείμενο χωρίς οπή με αμφίβολη χρήση. Κρίνοντας από τον μικρό αριθμό των κοσμημάτων που βρέθηκαν, μπορούμε να υποθέσουμε ότι αυτά δεν κατασκευάστηκαν *in situ* αλλά μάλλον είχαν εισαχθεί στον οικισμό ως πολύτιμα αντικείμενα. Εξαίρεση θα μπορούσαν να αποτελέσουν τα τρία αντικείμενα που λείπουν και βρέθηκαν όλα μαζί, καθώς είναι όμοια στυλιστικά, ενώ διαφέρουν από τα υπόλοιπα, και θα μπορούσαν να είχαν κατασκευαστεί από ένα ντόπιο «καλλιτέχνη». Παρά τη σπανιότητά τους, τα κοσμήματα της Πλατιάς Μαγούλας Ζάρκου μπορούν να προσφέρουν σημαντικές πληροφορίες για την προέλευση και την περίοδο στην οποία κυκλοφόρησαν. Χωρίς αμφιβολία, καθώς πολύ μικρό τμήμα του οικισμού ανασκάφηκε μέχρι τώρα, μια πιο εκτεταμένη ανασκαφή στο μέλλον θα μπορούσε να αναιρέσει αυτήν την εκτίμηση.

VIII. Αρχαιοβοτανικά και ζωοαρχαιολογικά κατάλοιπα – Επανεξέταση (Paul Halstead)

Τα αρχαιοβοτανικά και (πιο άφθονα) ζωοαρχαιολογικά κατάλοιπα που βρέθηκαν σε στρώματα της Νεολιθικής και της Εποχής του Χαλκού της Πλατιάς Μαγούλας Ζάρκου μελετήθηκαν και παρουσιάστηκαν στη δεκαετία του 1990. Τα πρώτα ταυτίστηκαν από τους Helmut Kroll και Glynnis Jones και παρουσιάστηκαν από τη Becker¹²⁷⁵ και τους Jones – Halstead¹²⁷⁶ αντιστοίχως. Τα δεύτερα μελετήθηκαν από την Cornelia Becker.¹²⁷⁷ Κανένα από τα σύνολα αυτά δεν εξετάστηκε εκ νέου για το παρόν σύντομο, άρθρο σκοπός του οποίου είναι να αξιολογήσει τις αρχικές δημοσιεύσεις υπό το φως των σχετικών μεταγενέστερων ανακαλύψεων και συζητήσεων. Αυτή η ανασκόπηση ξεκινά εξετάζοντας πόσο τυπικά ή άτυπα είναι τα δεδομένα της Πλατιάς Μαγούλας Ζάρκου στο πλαίσιο της Νεολιθικής και της Εποχής Χαλκού στην Ελλάδα, πριν συζητηθούν γενικότερα θέματα για τη χρήση γης και την κατανάλωση τροφής.

IX. Το φυσικό και κοινωνικό τοπίο της Πλατιάς Μαγούλας Ζάρκου (Στέλλα Σουβατζή)

Η μελέτη εξετάζει το φυσικό και κοινωνικό τοπίο της Πλατιάς Μαγούλας Ζάρκου (ΠΜΖ) κατά τη Νεολιθική περίοδο και τους τρόπους με τους οποίους οι άνθρωποι διαμόρφωναν και προσλάμβαναν τον χώρο, μέσα από συνδυαστική ανάλυση γεωλογικών, γεωφυσικών, περιβαλλοντικών, στρωματογραφικών, αρχιτεκτονικών και οικιστικών δεδομένων, καθώς επίσης

¹²⁷⁵ Becker 1991, 77–78 tab. 14.

¹²⁷⁶ Jones – Halstead 1993.

¹²⁷⁷ Becker 1991; Becker 2000.

και στοιχείων από τα διατροφικά κατάλοιπα και τον υλικό πολιτισμό. Το τοπίο προσεγγίζεται ως κοινωνική και ιστορική κατασκευή και η σχέση του ανθρώπου με το περιβάλλον ως δυναμική και σε διαρκή αλληλεπίδραση. Κεντρικά ζητήματα της μελέτης περιλαμβάνουν: α) την αντενέργεια ανθρώπων και περιβάλλοντος, με ιδιαίτερη έμφαση στις τοπικές ιδιαιτερότητες και τις ενδείξεις για συχνά πλημμυρικά επεισόδια στον περιβάλλοντα χώρο της μαγούλας, β) την πιθανή παρουσία περιμετρικών τάφρων και της λειτουργίας τους, γ) τον τύπο οικισμού που διαπιστώνεται στην ΠΜΖ και την κοινωνική και ιστορική σημασία αυτού του τύπου, δ) την ύπαρξη ενός σπάνιου νεκροταφείου καύσεων, της σχέσης του με τον οικισμό και της συμβολικής του νοηματοδότησης, και ε) τη θέση της ΠΜΖ στο ευρύτερο κοινωνικο-πολιτισμικό τοπίο της Νεολιθικής Θεσσαλίας, μέσα από διεξοδική ανάλυση των οικιστικών τύπων και διατάξεων, καθώς και των ομοιοτήτων, διαφορών και σχέσεων μεταξύ της ΠΜΖ και άλλων σύγχρονών της θέσεων. Οι φυσικές, κοινωνικές, χωρικές και χρονικές πρακτικές που αναλύονται στη μελέτη καταδεικνύουν ότι παρά τη μάλλον απομακρυσμένη θέση της και τα πιθανά προβλήματα με τις πλημμύρες, η Πλατιά Μαγούλα Ζάρκου ήταν ένας σύνθετος και δυναμικός οικισμός. Αντενεργούσε ποικιλοτρόπως με το φυσικό και κοινωνικό του περιβάλλον και πιθανόν αποτελούσε έναν κοινωνικά σταθερό χώρο μέσα σε ένα ευρύτερο τοπίο που χαρακτηριζόταν από ποικιλομορφία και αλλαγές. Τα αποτελέσματα της μελέτης προσφέρουν νέα οπτική στη σχέση των ανθρώπων με τη γη και τον χρόνο και υποστηρίζουν μια πιο δυναμική θεώρηση της ανθρώπινης αντιληπτικότητας, ενέργειας και γνώσης κατά το παρελθόν.

X. Η Πλατιά Μαγούλα Ζάρκου στο ευρύτερο πολιτισμικό της πλαίσιο:

Ανακεφαλαίωση και Συμπεράσματα

(Eva Alram-Stern – Γιώργος Τουφεξής)

Το κεφάλαιο συνοψίζει τα συμπεράσματα και τις εισηγήσεις αυτού του τόμου. Από τη συνδυαστική εξέτασή τους προκύπτει μια νέα εικόνα για αυτή τη μαγούλα που παρουσιάζει συνεχή κατοίκηση. Ειδικότερα, η ενσωμάτωση των ευρημάτων στην απόλυτη και σχετική χρονολογική ακολουθία του οικισμού, επιτρέπει μια νέα κατανόηση της πολιτισμικής αλλαγής που συντελέστηκε στη διάρκεια της Μέσης Νεολιθικής (5969–5754 π.Χ. [βαθμονομημένες ηλικίες [2σ]] και της πρώιμης Νεότερης Νεολιθικής (τελευταία απόλυτη χρονολόγηση: 5545–5472 π.Χ. [βαθμονομημένες ηλικίες [2σ]]): συγκρίνοντας τους έξι κεραμικούς ορίζοντες με τις πέντε λιθοτεχνικές φάσεις (οι οποίες καθορίστηκαν για τα εργαλεία λαξεμένου λίθου) και τους τρεις ορίζοντες ειδωλίων, αντιλαμβανόμαστε ότι όλες οι ομάδες των τεχνέργων παρουσιάζουν συνεχή εξέλιξη στη διάρκεια της MN I και II. Ωστόσο, μια ευδιάκριτη πολιτισμική αλλαγή είναι εμφανής στη MN III, στη μετάβαση από τη MN III προς τη NN I (Κεραμικός Ορίζοντας 5) καθώς και στη NN I (Κεραμικός Ορίζοντας 6). Σε όλες αυτές τις ομάδες τεχνέργων, οι αλλαγές στην τεχνοτροπία και στους τύπους σχετίζονται με μια διαφορετική χρονολογική φάση. Για τη NN I, είναι εμφανής μια νέα τεχνοτροπία (κεραμική, ειδώλια) και νέοι τύποι τεχνέργων (εργαλεία λαξεμένου λίθου). Επομένως, θα πρέπει να θεωρήσουμε αυτήν την περίοδο ως μια φάση που αντιπροσωπεύει νέες πολιτισμικές δυναμικές. Η εικόνα αυτή επιβεβαιώνεται από την αλλαγή που παρατηρείται στα υφαντικά εργαλεία, στα αποστρογγυλεμένα όστρακα και στα κοσμήματα. Επιπλέον, για την ΠΜΖ, τα περιφερειακά δίκτυα κατανομής της Δυτικής Θεσσαλίας καθορίζονται από την κυκλοφορία του ραδιολαρίτη (από την οροσειρά της Πίνδου) και από τα ειδώλια που υποδεικνύουν τη διασύνδεση των κοινοτήτων της Δυτικής Θεσσαλικής πεδιάδας. Οι διαπεριφερειακές επαφές με τη θάλασσα επιβεβαιώνονται από την ύπαρξη οψιανού από τη Μήλο και λίγα κοσμήματα από θαλάσσια όστρεα. Συνοψίζοντας, θεωρούμε την ΠΜΖ ως ένα κομβικό σημείο που συνδέει τη Δυτική και Ανατολική Θεσσαλική πεδιάδα. Καθώς, ωστόσο, πολλές θέσεις της Δυτικής Θεσσαλίας βρίσκονται ακόμη σε στάδιο μελέτης, δεν είμαστε σε θέση να προσδιορίσουμε με ακρίβεια την κοινωνική και οικονομική θέση της ΠΜΖ μέσα σ' αυτό το δίκτυο ανταλλαγών. Επιπλέον, η πολιτισμική ανάπτυξη της πρέπει να εξεταστεί σε σχέση με αυτές τις θέσεις.

Abbreviations

AMS	High resolution mass spectrometry technique
AT	active tool
BC	Before Christ
BP	Before Present
BPh	(Platia Magoula Zarkou) Building Phase
BSPH	(Platia Magoula Zarkou) Building Subphase
C	Carbon
c	complete
c-	nearly complete
calcul.	calculated
CalPal	Cologne Radiocarbon Calibration & Paleoclimate Research Package
CH	Ceramic Horizon
CODA	Compositional data analysis
CP	Chronological Phase
CSNDF	Chisquared cumulative distribution function
CTR	Centre for Textile Research Copenhagen
cu	cut
DA	Discriminant analysis
DEM	Digital elevation model
Diam.	diameter
Dim.	dimension
DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center)
EBA	Early Bronze Age
EMI	Electromagnetic induction
EN	Early Neolithic
ENE	East-northeast(ern)
ESE	East-southeast(ern)
EU	Excavation unit
ext.	exterior
F	Floor
f	fragmented
fl	flaking
Frag.	fragment/fragmented
GPR	Ground penetrating radar
GPS	Global Position System
GMCWM	Gaussian Monte Carlo Wiggle Matching
H	height
HAGS	Hellenic Army Geographical Service
HVSR	Horizontal to vertical spectral ratio
IGEAN	Project ‘Innovative Geophysical Approaches for the Study of Early Agricultural Villages of Neolithic Thessaly’ (Sarris et al. 2017b)
INAA	Instrumental neutron activation analysis
int.	interior
IntCal	Radiocarbon calibration curve
Inv. no.	Inventory number
ka	thousands of years (kilo annum)
KOU	Koziakas Ophiolitic Unit
LA-ICP-MS	Laser ablation inductively coupled mass spectrometry
Lg	length
Lg/Wd	length/width ratio
LGM	Last glacial maximum
LN	Late Neolithic

LP	Lithic Phase
LTNS	Project ‘Long Time, No See: Land Reclamation and the Cultural Record of the Central-Western Plain of Thessaly’ (Orengo et al. 2015; Krahtopoulou 2019a)
Ma	Mega annum
MAMS	Mainz accelerator mass spectrometry
m asl	metres above sea level
MBA	Middle Bronze Age
meas.	measured
MED	Multi-coil Electromagnetic Device
MLA	Multi Layered Chert Sourcing Approach
MN	Middle Neolithic
Myr	Mega year
N	Nitrogen
n/a	not applicable
no./s.	number/s
NE	Northeast(ern)
NISP	Numbers of identified specimens
NNE	North-northeast(ern)
NNW	North-northwest(ern)
NW	Northwest(ern)
PM No./s.	Platia Magoula Zarkou Inventory Numbers
PMZ	Platia Magoula Zarkou, Πλατιά Μαγούλα Ζάρκου
Pref.	Prefecture
Pres./pres.	preservation/preserved
Prov.	provenience
PT	passive tool
PT+AT	tool used both passively and actively
pub.	published
PVP	Peneiada Valley Project
ODBC	Open database connectivity
R/CC	Radiolarite/chocolate chert
SE	Southeast(ern)
SSE	South-southeast(ern)
SSW	South-southwest(ern)
SU	Stratigraphic unit
SW	Southwest(ern)
Th	thickness
TS	Thermal structure
Und.	undetermined
W	wall
Wd	width
Wd/Th	width/thickness ratio
WNW	West-northwest(ern)
ΠΜΖ	Πλατιά Μαγούλα Ζάρκου

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Chapter II. The Environment and its Evolution around the Tell

Chapter II.1. The Latest Quaternary Evolution of the Peneiada Valley, Central Greece, and its Effects on Neolithic and Historical Settlement Distribution (Riccardo Caputo – Bruno Helly – Dimitra Rapti – Sotiris Valkaniotis)

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- Fig. II.1.4 Three-dimensional model of the palaeo-Peneiada Valley as reconstructed by Mantovani et al. 2018 based on the results of a dedicated geophysical survey
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- Fig. II.1.6 a. Tentative reconstruction of the main course of the Titarissios River flowing along the palaeo-Peneiada Valley and draining into the Karditsa Lake during the Late Pleistocene; b. Capture phases of the Titarissios River firstly in correspondence with, and due to, the Larissa Fault and subsequently by the Tyrnavos Fault
- Fig. II.1.7 Evolution of the longitudinal profiles of the major rivers representing the hydrographic network of Thessaly since the Middle to Late Quaternary
- Fig. II.1.8 Map of the Zarko area showing the location of the Neolithic sites PMZ and Koutsaki Magoula
- Fig. II.1.9 Map of the archaeological site of Atrax, southeast of Peneiada village, along the northern slope of the Titanos Mount
- Fig. II.1.10 Topographic map of the western sector of the Peneiada Valley showing the present-day Peneios River and several historically abandoned meanders
- Fig. II.1.11 Complete lithostratigraphic column of the PVP borehole (left) and detail sketch of the uppermost 25m spanning the latest Pleistocene and Holocene deposits (right)
- Fig. II.1.12 Examples of mollusc shells. a. Melanopsidae ind. Gastropod (10.12m); b. freshwater gastropods in the washed cuttings (~22.5m)

Chapter II.2. Geophysical Investigations (Apostolos Sarris – Tuna Kalayci – James Donati)

The illustrations Figs. II.2.1–13 are by A. Sarris, the photos in Fig. II.2.3 were taken by E. Alram-Stern.

- Fig. II.2.1 The location of the cores taken from van Andel et al. 1995 overlaid on the DEM and the hillshade of the area around PMZ. The DEM was created from data of the TanDEM-X radar satellite of DLR
- Fig. II.2.2 The map indicates the coverage of the RM85 resistance meter (~0.5ha), CMD EMI (~4.7ha), GPR (0.05ha) and SENSYS gradiometer (~5.7ha). The coding of the different sections of the site (A–H) that were surveyed are also indicated
- Fig. II.2.3 Details from the geophysical work at PMZ during the 2016 field campaign. a. Soil resistance survey; b. EMI survey; c. Magnetometry survey
- Fig. II.2.4 a–b. Area A. Results of the magnetic survey near the Late Neolithic cemetery of PMZ. The yellow circles in the right-hand figure indicate the isolated monopole or dipole anomalies identified by the magnetometry survey. The Neolithic cemetery is also visible to the NW of the geophysical survey grid
- Fig. II.2.5 a. Results of the magnetic survey at PMZ in Areas B, C and D; b. Diagrammatic interpretation of the geomagnetic features
- Fig. II.2.6 Satellite image extracted 4 May 2010 (GoogleEarth). The continuation of the intense magnetic feature is obvious in the satellite image and it turns to the north
- Fig. II.2.7 a. Results of the magnetic survey at PMZ in Areas E, F and G; b. Diagrammatic interpretation of the geomagnetic features
- Fig. II.2.8 Results of the electromagnetic survey. a. Soil magnetic susceptibility results; b. Soil conductivity results; c. Diagrammatic interpretation of the results of the electromagnetic survey
- Fig. II.2.9 a. Results of the soil resistance survey; b. Diagrammatic interpretation
- Fig. II.2.10 Radargrams of the GPR survey along the dirt road in the area of the cemetery. Radargrams represent the reflectors of the ground along parallel transects 1m apart
- Fig. II.2.11 a. Selective geo-rectified GPR depth slices (for depths of 140–150cm, 170–180cm, 190–200cm and 210–220cm) along the road in the area of the cemetery; b. Volumetric representation of the GPR reflectors
- Fig. II.2.12 Integrated interpretation of the geophysical survey measurements at PMZ
- Fig. II.2.13 The interpolated surface of the top soil stratigraphic unit (Late Pleistocene Unit A) based on the soil cores of van Andel et al. 1995 superimposed on a satellite image of the area around PMZ and the features suggested by the geophysical survey

Chapter III. Stratigraphy and Architecture (*Giorgos Toufexis – Christos Batzelas*)

The original plans and photos are kept in the archives of the Ephorate of Antiquities of Larissa. The plans Figs. III.1 and III.3 were edited by A. Buhlke, the plans Figs. III.5, 8, 10, 12, 15, 17, 19, 21–27, 29, 32, 34, 37 and 39 by C. Batzelas and A. Buhlke. The photos of the excavations Figs. III.4, 6, 7, 9, 11, 13, 14, 16, 18, 20, 28, 30, 31, 32, 33, 35, 36, 38, 40 were edited by A. Buhlke. Figs. III.41–43: photos by C. Batzelas, drawings by R. Exarhou.

- Fig. III.1 Topographic plan of the site and its wider area, also showing the location of the cemetery
- Fig. III.2 The site from the east (aerial photo)
- Fig. III.3 3-D diagram of Trench A
- Fig. III.4 Trench A after the end of the excavations
- Fig. III.5 Plan of BPh I
- Fig. III.6 BPh I. The ditch before excavation. View from the south
- Fig. III.7 BPh I. Profile of the ditch on the north side of the trench
- Fig. III.8 Plan of BPh I (northern part) and BPh II (southern part)
- Fig. III.9 The ditch (northern part) and layers of BPh II (southern part). SU 9–10 show the continuation of the ditch to the south
- Fig. III.10 Plan of BSPH IIIa with wall W39
- Fig. III.11 BSPH IIIa. Wall W39. View from the east
- Fig. III.12 Plan of BSPH IIIb. Surfaces F33a–d
- Fig. III.13 BSPH IIIb. Surfaces F33a, b and d on the southern side of the trench
- Fig. III.14 BSPH IIIb. Surfaces F33b–c on the southern side of the trench
- Fig. III.15 Plan of BSPH IIIc
- Fig. III.16 BSPH IIIc. Building remains
- Fig. III.17 Plan of BSPH IVa
- Fig. III.18 BSPH IVa. Part of a house with wall W38 (after removal of its stone foundation). View from the south
- Fig. III.19 Plan of BSPH IVb
- Fig. III.20 BSPH IVb. Part of a house with wall W37. a. part of wall W38 of BSPH IVa is also visible. View from above; b. View from above; c. part of wall W38 of BSPH IVa is also visible. View from the east
- Fig. III.21 Plan of BSPH Va
- Fig. III.22 Plan of BSPH Vb
- Fig. III.23 Plan of BSPH Vc
- Fig. III.24 Plan of BSPH Vd
- Fig. III.25 Plan of BSPH Ve
- Fig. III.26 Plan of BSPH VIa
- Fig. III.27 Plan of BSPH VIb
- Fig. III.28 BSPH VIb. Surface F24 and wall plasters (W32–33). View from the south
- Fig. III.29 Plan of BSPH VIIa
- Fig. III.30 BSPH VIIa. Thermal structures TS 20 and 36. View from the south
- Fig. III.31 BSPH VIIa and VIIb. The clay house model of BSPH VIIa (SU 179) is shown close to thermal structure TS 19 of VIIb; a. View from the south; b. View from the north; c. View from the east
- Fig. III.32 Plan of BSPH VIIb, includes SU 154–157 of BSPH VIIc are also shown.
- Fig. III.33 BSPH VIIb. Thermal structure TS 19; a. View from the west; b. View from the west; c. View from above. SU 178 of VIIb is also shown; d. Substructure of TS 19. View from the west
- Fig. III.34 Plan of BSPH VIIc, including SU 154–157, BPh VIII. are also shown
- Fig. III.35 BSPH VIIc. View from the north
- Fig. III.36 BSPH VIIc. Postholes (SU 143–144). View from the north
- Fig. III.37 Plan of BPh VIII
- Fig. III.38 BPh VIII. View from the north
- Fig. III.39 Plan of BPh IX
- Fig. III.40 BPh IX. View from the west. The stone-built wall W31 and the pit SU 167 are from the Early Bronze Age

Fig. III.41 Burnt pieces of clay

Fig. III.42 Pieces of clay floors from thermal structures

Fig. III.43 a–b. Burnt pieces of clay with decorative elements; c. Burnt pieces of clay with decorative elements and a large handle of vessel (no. 19)

Chapter IV. The Absolute Chronology of the Excavations: Radiocarbon Dating and Stratigraphic Age Modelling (*Bernhard Weninger – Giorgos Toufexis – Christos Batzelas*)

The figures for chapter IV were produced by B. Weninger.

Fig. IV.1 Screenshot of GaussWM dialogue (CalPal Version 2021.6) to illustrate the application of GMCWM to PMZ data

Fig. IV.2 Overview of radiocarbon ages from PMZ (N=10; Tab. IV.2.1), showing the summed calibrated ¹⁴C age probability distribution of total data

Fig. IV.3 PMZ age-depth model based on calibrated single dates (Tab. IV.2.3)

Fig. IV.4 Statistical results for GMCWM analysis of PMZ data. Upper graph: Dating probability (red) and dating precision (blue). Lower graph: Probability/precision

Fig. IV.5 Final GMCWM linear age-depth model with a focus on showing the relationship between the calibrated data (dots with 68%-error bars) and the tree-ring calibration curve (IntCal13, green line)

Fig. IV.6 Final GMCWM linear age-depth model with a focus on showing the age-depth-phase relationship of PMZ-stratigraphy

Chapter V. The Tools

Chapter V.1. The Flaked Stone Assemblages (Catherine Perlès – Lygeri Papagiannaki); Appendix 1: Table of Wear Traces (Lygeri Papagiannaki – Sylvie Beyries); Appendix 2: The Flaked Stone Assemblages – A Brief Note on Agricultural Tools (Niccolò Mazzucco); Appendix 3: Geochemical Sourcing of Chipped Stone Tools from Platia Magoula Zarkou (Michael Brandl – Christoph A. Hauzenberger – Peter Filzmoser – Maria M. Martinez)

The chipped stone tools are kept in the storerooms of the Ephorate of Antiquities of Larissa. Figs V.1.1–19: illustrations by C. Perlès, drawings by M. Ballinger. Fig. V.1.20 by N. Mazzucco. Figs. V.1.21–33 by M. Brandl.

Fig. V.1.1 Lithic Phase 1. a, c–i, n: unretouched flakes, b: flake core, d, j–m: bladelets, o: laterally retouched flake, p–q: reflaked blades (pseudo-burins), r: micro end-scraper, s: end-scraper, t–u: laterally retouched blades, v: microfoliate point. All in R/CC except d in light-coloured chert, k–o in obsidian, p in honey chert. a: PM0801, b: PM0846, c: PM0687, d: PM0784, e: PM0849, f: PM0884, g: PM0870, h: PM0872, i: PM0896, j: PM0688, k: PM0738, l: PM0802, m: PM0774, n: PM0820, o: PM0781, p: PM0838, q: PM0855, r: PM0723, s: PM0742, t: PM0840, u: PM0773, v: PM0848

Fig. V.1.2 Lithic Phase 1. Sickles inserts on blades and flakes. All in R/CC. a: PM0833, b: PM0736, c: PM0875, d: PM0746, e: PM0764, f: PM0751, g: PM0728, h: PM0770, i: PM0812, j: PM0836, k: PM0743, l: PM0808, m: PM0849, n: PM0867, o: PM0845

Fig. V.1.3 Lithic Phase 1. a: proximal R/CC end-scraper (PM0742), b: micro R/CC end-scraper (PM0723), c: laterally retouched R/CC blade (PM0773), d: retouched and reflaked honey chert blade (PM0838), e: utilised R/CC blade fragment (PM0852), f: notched obsidian bladelet (PM0820), g: retouched obsidian flake (PM0781), h: R/CC microfoliate point (PM0848), i: R/CC flake core (PM0846), j: R/CC lateral bladelet (PM0688)

Fig. V.1.4 Lithic Phase 1. Sickles inserts on blades and flakes. All in R/CC. a: PM0833, b: PM0736, c: PM0875, d: PM0746, e: PM0764, f: PM0751, g: PM0728, h: PM0743, i: PM0812, j: PM0836, k: PM0808, l: PM0849, m: PM0867, n: PM0845

Fig. V.1.5 Lithic Phase 2. a: flake core, b–f, i–l: unretouched flakes and bladelets, h: unretouched, heavily used borer, g: inversely retouched R/CC bladelet, m, o: sickle inserts on flakes, n: sickle insert on blade, p: bilaterally retouched blade. a–c, e–g, o: R/CC, d: quartz, i–m: obsidian, n, p: honey chert. a: PM0667, b: PM0633, c: PM0673, d: PM0636, e: PM0642, f: PM0671, g: PM0635, h: PM0649, i: PM0615, j: PM0634, k: PM0613, l: PM0672, m: PM0644, n: PM0696, o: PM0652, p: PM0686

Fig. V.1.6 Lithic Phase 2. a: R/CC flake core (PM0667), b: obsidian bladelet (PM0615), c: R/CC sickle insert on blade (PM0696), d: R/CC sickle insert on flake (PM0652), e: retouched honey chert blade (PM0686), f: sickle insert on obsidian flake (PM0644), g: retouched R/CC bladelet (PM0635), h: unretouched R/CC beak (PM0649)

Fig. V.1.7 Lithic Phase 3. a–j: unretouched flakes and bladelets, k–m: trapezes/transverse arrowheads, n: truncated blade, o: sickle insert on blade, p: sickle insert on flake. a–c, f–l, n: R/CC, d–e, p: light-coloured cherts, j–k: obsidian, o: honey chert. a: PM0593, b: PM0598, c: PM0596, d: PM0630, e: PM0580, f: PM0576, g: PM0594, h: PM0585, i: PM0612, j: PM0627, k: PM0575, l: PM0616, m: PM0626, n: PM0622, o: PM0623, p: PM0592

Fig. V.1.8 Lithic Phase 3. a: crest preparation flake, translucent chert (PM0580), b: R/CC bladelet (PM0576), c: proximal fragment of R/CC blade (PM0605), d: R/CC bladelet (PM0585), e: honey chert sickle blade (PM0623), f: burnt R/CC flake with gloss (PM0592), g: obsidian trapeze (PM0852), h–i: R/CC transverse arrowheads (PM0616 and PM0626)

Fig. V.1.9 Lithic Phase 4. a–j, m, p–s: unretouched flakes and bladelets, k–l: reflaked blades, n: pressure-flaked microcore, o: pressure-flaked bladelet. a: PM0568, b: PM0471, c: PM0520, d: PM0460, e: PM0558, f: PM0463, g: PM0473, h: PM0477, i: PM0557, j: PM0462, k: PM0534, l: PM0531, m: PM0499, n: PM0487, o: PM0536, p: PM0497, q: PM0470, r: PM0461, s: PM0511

Fig. V.1.10 Lithic Phase 4. a: sickle insert with an end-scraper, b–e: sickle inserts on blades, f–g: end-scraper on blades, h: side-scraper, i: bitruncated blade, j: inversely retouched crested blade, k: inversely retouched flake, l: bilaterally retouched blade, m–n: transverse arrowheads, o–p: truncated blades, q: obliquely truncated flake, r: arched backed bladelet, s: splintered piece. a–d, g–h, m, p–r: R/CC. e, i: honey chert. f, k, o: light-coloured cherts. l, n, p: obsidian. a: PM0503, b: PM0453, c: PM0530, d: PM0498, e: PM0495, f: PM0505, g: PM0514, h: PM0523, i: PM0489, j: PM0515, k: PM0490, l: PM0549, m: PM0512, n: PM0476, o: PM0502, p: PM0527, q: PM0556, r: PM0490, s: PM0457

Fig. V.1.11 Lithic Phase 4. a–f: trimming and preparation flakes, g, i–k: bladelets (i with proximal retouch), h: pressure-flaked microcore, l: sickle blade, m: end-scraper on sickle blade, n: sickle insert on blade, o: sickle insert on bladelet. All in R/CC except l in honey chert. a: PM0568, b: PM0463, c: PM0473, d: PM0511, e: PM0477, f: PM0465, g: PM0499, h: PM0487, i: PM0536, j: PM0556, k: PM0470, l: PM0495, m: PM0503, n: PM0453, o: PM0498

Fig. V.1.12 Lithic Phase 4. a–b: end-scraper on blades, c: side-scraper on flake, d: inversely retouched crested blade, e: reflaked secondary crested blade, f: bitruncated blade, g: retouched blade, h–i: retouched flakes, j–k: transverse arrowheads, l: truncated blade, m: obliquely truncated flake, n: arched backed bladelet. a, c, e, k, m–n in R/CC. b, i–j in obsidian. d, g–h, l in translucent cherts. f in honey chert. a: PM0514, b: PM0505, c: PM0523, d: PM0515, e: PM0534, f: PM0489, g: PM0541, h: PM0468, i: PM0497, j: PM0476, k: PM0512, l: PM0502, m: PM0556, n: PM0556

Fig. V.1.13 Lithic Phase 5. a–g: unretouched flakes, h: bladelet core, i–j: secondary crested bladelets, k–s, u: unretouched blades and bladelets, t: core rejuvenation flake. a–l, n, r: R/CC. m, p–q: light coloured cherts. s: honey chert. t–u: obsidian. a: PM0384, b: PM0390, c: PM0449, d: PM0380, e: PM0448, f: PM0389, g: PM0381, h: PM0378, i: PM0440, j: PM0397, k: PM0351, l: PM0448, m: PM0382, n: PM0363, o: PM0391, p: PM0422, q: PM0385, r: PM0357, s: PM0384, t: PM0405, u: PM0334

Fig. V.1.14 Lithic Phase 5. a–c: sickle inserts, d–f: borers, g–i: laterally retouched blades, j: end-scraper, k–m: splintered pieces, n: bitruncated triangle, o–p: utilised bladelet and flake. All in R/CC except o: light-coloured chert. a: PM0342, b: PM0351, c: PM0441, d: PM0366, e: PM0334, f: PM0340, g: PM0399, h: PM0452, i: PM0358, j: PM0338, k: PM0337, l: PM0346, m: PM0404, n: PM0386, o: PM0341, p: PM0451

Fig. V.1.15 Lithic Phase 5. a: exhausted flake and bladelet core, b–c: secondary crested blades, d–g: pressure-flaked bladelets and blade, h–i: indirect percussion bladelet and blade, k: proximal fragment of obsidian blade. All in R/CC except i–j in translucent chert and k in obsidian. a: PM0378, b: PM0440, c: PM0397, d: PM0357, e: PM0363, f: PM0385, g: PM0391, h: PM0392, i: PM0382, j: PM0422, k: PM0339

Fig. V.1.16 Lithic Phase 5. a–c: sickle inserts, d–f: beaks/borers, g–i: laterally retouched bladelet and blade, h: end-scraper, i: retouched flake, j: reflaked retouched flake, k–m: splintered pieces and fragment of splintered piece, n: splintered piece, n: bitruncated triangle. All in R/CC. a: PM0342, b: PM0351, c: PM0441, d: PM0366, e: PM0334, f: PM0399, g: PM0358, h: PM0338, i: PM0364, j: PM0421, k: PM0346, l: PM0337, m: PM0404, n: PM0386

Fig. V.1.17 Typological continuity through Lithic Phases 1–4. L.p.: Lithic Phase. B.p.: Building Phase. a–d: bilaterally used and retouched sickle inserts on blades, e–f: retouched honey chert blades, g–h: sickle inserts on backed flakes, i–k: sickles inserts on blades shaped with an ‘end-scraper’ front, l–n: end-scrapers on large blades, o–p: transverse arrowheads

Fig. V.1.18 Retouched tools directly associated with identified ‘surfaces’ (‘floors’). a: PM0838, b: PM0833, c: PM0764, d: PM0723, e: PM0845, f: PM0836, g: PM0686, h: PM0652, i: PM0575, j: PM0502, k: PM0476, l: PM0497, m: PM0495, n: PM0498, o: PM0503, p: PM0506, q: PM0441

Fig. V.1.19 Oblique and parallel hafting of sickle inserts. The models represent the two modes of hafting for sickle elements. The visible part of the tool represents the active zone, whereas the part hidden behind the dotted triangle represents the hafted edge

Fig. V.1.20 Two possible threshing inserts from PMZ. On the top PM0845, below PM0441. Note the dulled edge and the use-wear pattern characterised by abrasions and striations

Fig. V.1.21 Map indicating the sampled locations

- Fig. V.1.22 Selected source locations documented during the geological field survey
- Fig. V.1.23 Artefacts from PMZ investigated for this study. Length of the bar: 1cm
- Fig. V.1.24 Microphotographs of the artefacts from PMZ. PM0870 was not analysed
- Fig. V.1.25 Microphotographs of representative samples from the geological sources. A–D: PMZ 2; E–H: PMZ 5; I–L: PMZ 8; M and N: PMZ 4
- Fig. V.1.26 Barium (Ba) versus magnesium (Mg) concentration plot of the geological samples
- Fig. V.1.27 Aluminium (Al) versus strontium (Sr) concentration plot of the geological samples
- Fig. V.1.28 Calcium (Ca) versus aluminium (Al) concentration plot of the geological samples
- Fig. V.1.29 Calcium (Ca) versus magnesium (Mg) concentration plot of the geological samples
- Fig. V.1.30 Calcium (Ca) versus strontium (Sr) concentration plot of the geological samples
- Fig. V.1.31 Aluminium (Al) versus strontium (Sr) concentration plot of the archaeological artefacts
- Fig. V.1.32 Calcium (Ca) versus strontium (Sr) concentration plot of the archaeological artefacts
- Fig. V.1.33 Fisher resolution plot of the geological source data

Chapter V.2. The Platia Magoula Zarkou Macrolithics: A Thessalian Industry in its Aegean Neolithic Context (Anna Stroulia)

The macrolithics are kept in the storerooms of the Ephorate of Antiquities of Larissa. Photos by A. Stroulia, drawings by R. Exarhou.

- Fig. V.2.1–3 1. Active grinding tool PM0740 (gneiss): work face and sections; 2. Active grinding tool PM0795 (schist): one of the work faces and both sections; 3. Active grinding tool PM0492 (sandstone): work face and sections
- Fig. V.2.4–6 4. Active grinding tool PM0760 (gneiss): work face B and sections; 5. Active grinding tool PM0946 (gneiss): one of the work faces and both sections; 6. Active grinding tool PM0699 (gneiss): work face and sections
- Fig. V.2.7–11 7. Passive grinding tool PM0691 (schist): work face and sections; 8. Passive grinding tool PM0518 (gneiss): work face and sections; 9. Passive grinding tool PM0893 (schist): work face and sections; 10. Passive grinding tool PM0677 (schist): one work face and sections; 11. Passive grinding tool PM0989 (sandstone): work face and sections
- Fig. V.2.12–15 12. Small celt PM0333 (serpentinite): one face and sections; 13. Small celt PM0692 (gabbro): one face and sections; 14. Small celt PM0771 (serpentinite): one face and sections; 15. Small celt PM0675 (serpentinite or possibly jadeite): one face and sections
- Fig. V.2.16–20 16. Larger celt PM0741 (gabbro): one face, one side and transverse section; 17. Larger celt PM0706 (gabbro): one face, one side, and transverse section; 18. Recycled larger celt PM0716 (gabbro): one face and ends; 19. Larger celt PM0722 (serpentinite): faces and edge; 20. Recycled larger celt PM0766 (gabbro): one face, one side, and one end
- Fig. V.2.21–23 21. Percussive tool PM0643 (quartz): one view and section; 22. Percussive tool PM0697 (quartz): faces and one section; 23. Percussive tool PM0710 (quartz): faces and one side (middle)
- Fig. V.2.24–27 24. Percussive tool PM0791 (gabbro): one face and ends; 25. Percussive tool PM0532 (gabbro): one face, one side, and ends; 26. Percussive tool PM0895 (gabbro): one face, one side, and ends; 27. Percussive tool PM0656 (marble): one view and section
- Fig. V.2.28–30 28. Specimen with two narrow grooves PM0747 (chlorite schist): work face and transverse section; 29. Specimen with one narrow groove PM0763 (schist): work face and transverse section; 30. Specimen with one narrow groove PM0555 (serpentinite): work face and transverse section
- Fig. V.2.31–33 31. Miscellanea specimen PM0508 (flint): one face and sections; 32. Miscellanea specimen PM0680 (limestone): one face and one side (right); 33. Miscellanea specimen PM0995 (marble): one face and transverse section
- Fig. V.2.34–36 34. Miscellanea specimen PM0455 (marble): one view and transverse section; 35. Miscellanea specimen PM0538 (marble): one face and section; 36. Miscellanea specimen PM0345 (serpentinite): one face and sections

Chapter V.3. Bone Tools (Rozalia Christidou)

The bone tools are kept in the storerooms of the Ephorate of Antiquities of Larissa. Illustrations by R. Christidou.

- Fig. V.3.1 Pointed tools: (1) PM0468; (2) PM0658; (3) PM0700; (4) PM0717; (5) PM0767; (6) PM0798
- Fig. V.3.2 Pointed tools: (1) PM0661; (2) PM0854; (3) PM0617; (4) PM0835
- Fig. V.3.3 Needle: PM0865. Drawing: caudal and internal views (left and right, respectively). (1) Semicircular striations (arrows) along the margin of the unfinished caudal perforation (25×). (2) Facet (arrow) with slightly curving striations on the margin of the finished caudal perforation (40×). (3) Cranial view of the proximal part of the tool (8×). The internal hole is also visible
- Fig. V.3.4 Unclassified partial bone tools: (1) PM0805; (2) PM0810; (3) PM0928. The photograph of specimen 2 shows use-worn oblique grinding striations (25×). These marks are macroscopic. Sketch in rectangle used to show fracture profile of the same specimen. Dashed line used to indicate thick crust on specimen 3. Sketched outlines are only provided for this specimen; dimensions are approximate. Oblique and transverse lines on the drawings indicate grinding
- Fig. V.3.5 Cutting-edge tools and smoother: (1) PM0414; (2) PM0785; (3) PM0930. Dashed line used to indicate weathered surface on specimen 3
- Fig. V.3.6 Reduction waste: PM0929. Outline of bisected metatarsal (left) reconstructed from fragments (middle). Dimensions are approximate. Shallow medullary grooves (right) cut to guide motion for quartering the bone. Their location is indicated by rectangle (a). Rectangles (b) and (c) locate details shown in Fig. V.3.7
- Fig. V.3.7 PM0929: post-discard damage. (1) Cracking and removal of surface bone as a result of weathering (20×). For image location see rectangle (b) in Fig. V.3.6. (2) Chewing marks (10×). For image location see rectangle (c) in Fig. V.3.6. Note also the thin dark-coloured crust
- Fig. V.3.8 (1) Comparison of artefact lengths (measurements in millimetres). Specimens PM0800 and PM0929 are excluded from comparison because of extreme fragmentation. PM0785 is analysed as a complete specimen since flaking affects the superior face away from the extremities. Diamond: complete; blank square: nearly complete; triangle: old fragment; blank circle: recent fragment. (2) Greatest width/thickness of complete and nearly complete pointed tools (measurements in millimetres)
- Fig. V.3.9 Ground flat metatarsal: Bone 167. Oblique lines on the sketch locate grinding marks on the anterior side of the bone (not presented in scale). The photograph shows striations of longitudinal grinding and exposure of cancellous tissue on the posterior face (50×)
- Fig. V.3.10 Points: (1) Width/thickness measured at a distance of 10mm from the apex. Four tools are excluded from comparison: PM0617 and PM0658 because the length of the broken point is not calculated (Appendix, Tab. V.3.A3), PM0800 because it is shattered and PM0835 because it is a proximal fragment. (2) Width/thickness measured at a distance of 30mm from the apex. To the five tools excluded from comparison in Fig. V.3.8.1 is here added PM0468 because it is broken and its form and dimensions at 30mm from the distal tip are not reconstructed
- Fig. V.3.11 PM0468: point, superior highest relief (ridge). Grinding marks obliterated from the ridge, preserved on the slopes (arrow). Upper and lower images captured at 100× and 200× magnifications, respectively
- Fig. V.3.12 PM0468: point, inferior central facet above the medullary cavity. (1) Grinding marks severely worn. They are best preserved away from the broken tip, above the dark flake negative (left), which represents post-discard damage (arrows). (2) Grinding marks nearly completely worn down on facet intersection (middle); narrow use striations running in various directions. Images captured at 100× magnification
- Fig. V.3.13 PM0468: inferior proximal shaft. Advanced prehension wear. Upper and lower images captured at 100× and 200× magnifications, respectively
- Fig. V.3.14 PM0658: point, inferior side. (1) Polishing and rounding following the surface contours near the distal break located farther to the right. The polishing of the depressed area on the left is superficial. (2) Image captured immediately below image 1. Similar wear. Incompletely smoothed plateaus are visible. Unpolished pits in the middle (arrow) represent post-discard damage. (3) Scraped topography unmodified, light polishing and striations. Images 1 and 2 captured at 200× magnification, image 3 captured at 100× magnification
- Fig. V.3.15 (1) PM0617: point, middle of superior face. The arrow indicates polished streaks and shallow striations with flat polished bottoms. (2) PM0617: left edge of the marrow cavity, shaped facet. Outer edge of the facet rounded and polished (cf. Fig. V.3.13). Cracking postdates use. The arrow indicates a worn grinding striation on the interior of the facet. (3) PM0717: point, superior face. Wear following surface contours near the distal break (right). (4) PM0717: base margin, superior side. Flaky outer surface of the metaphysis portion preserved on the tool. Images captured at 200× magnification
- Fig. V.3.16 PM0700: (1–4) Point, superior highest relief (ridge). Gradual wear pattern. (5) Left edge of the marrow cavity, shaped facet. Undetermined wear on the outer edge and the interior of the facet. Images 1–4 captured at 200× magnification, image 5 captured at 100× magnification

Fig. V.3.17 PM0805: superior highest relief (crest rounded by manufacture). Irregular ground topography unmodified, polishing and rounding of plateaus and ridges (cf. Fig. V.3.15.4). Images captured at 200× magnification

Fig. V.3.18 PM0767: inferior side. (1) Point, high central ridge. Striated used surface. (2–3) Ground topography preserved, upper relief altered. (4) Scraped topography preserved, upper relief altered. Images captured at 200× magnification

Fig. V.3.19 PM0854: point, inferior side along the facet of the right side of the point. (1) Homogenisation. The large deep concavity in the middle probably belongs to the initial, scraped, topography. It was perhaps the result of an accidental surface removal. (2) Distal (i.e. right) to the concavity shown in image 1. (3) Remnants of the deep scraped valleys (arrow) preserved on the facet of the right edge of the point. (4) Original valleys preserved on the facet captured in image 3. Image 1 captured at 100× magnification, images 2–4 captured at 200× magnification

Fig. V.3.20 PM0854: point, inferior side. (1) Scraped relief altered, polished. (2) Scraped topography, superficial wear. (3) Natural surface, weak polish. Images 1–2 captured at 200× magnification, image 3 captured at 100× magnification

Fig. V.3.21 PM0865: external side. (1) Distal tip to external face transition. Complete polishing. (2) Individual striations and smoothing of the upper natural relief. (3) Frequent transverse striations. Images captured at 200× magnification

Fig. V.3.22 PM0865: external side. (1) Spot 4 on the drawing of Fig. V.3.21. (2) Spot 5 on the drawing of Fig. V.3.21. (3) Spot 6 on the drawing of Fig. V.3.21. Note superficial polishing and smoothing on image 2. Images captured at 200× magnification

Fig. V.3.23 PM0865: caudal side of the finished hole. Edge rounding and polishing. The arrow indicates a groove cut during the perforation. Images captured at 200× magnification

Fig. V.3.24 PM0835: (1–2) Left edge of the marrow cavity, facet scraped to flatten. Rough polished plateaus, deep original valleys preserved. Note also the flat discontinuous polished streaks in image 2. (3–4) Superior left ridge rounded. Images 1 and 3 captured at 100× magnification, images 2 and 4 captured at 200× magnification

Fig. V.3.25 PM0810: ground topography preserved, altered upper relief. Upper and lower images captured at 100× and 200× magnifications, respectively

Fig. V.3.26 PM0798: (1) Point, inferior side, non-flaked area. Wear following surface contours. The wide deep unpolished valleys on the left represent weathering damage. (2) Middle superior shaft. Loss of polished outer bone, furrowing and cracking as a result of weathering. Image 1 captured at 200× magnification, image 2 captured at 50× magnification

Fig. V.3.27 PM0414: (1–2) Inferior surface, (3) superior surface below the flaked zone. Images captured at 200× magnification

Fig. V.3.28 PM0785: (1–2) Superior slope of the working edge. The arrow indicates a polished streak. Images captured at 200× magnification

Fig. V.3.29 PM0785: shaft, superior side. (1) Ground, (2) natural and (3) scraped topographies altered by use. Images captured at 200× magnification

Fig. V.3.30 PM0930: external surface. Image 3 shows light, superficial, wear. Cracks and extensive deposits represent post-discard damage. Images captured at 100× magnification

Fig. V.3.31 PM0930: external surface. Images captured at 200× magnification. The spots are the same as those captured at 100× magnification in Fig. V.3.30

Chapter V.4. Clay Spinning and Weaving Implements (Christopher Britsch)

The spinning and weaving implements are kept in the storerooms of the Ephorate of Antiquities of Larissa. Photos by K.-V. von Eickstett, drawings by C. Britsch.

Fig. V.4.1–3 Pierced sherds: (1) PM0876, (2) PM0882, (3) PM0886 from BPh II (MN I)

Fig. V.4.4 Pierced sherd PM0960 from BPh IIIc (MN I)

Fig. V.4.5 Pierced sherd PM0919 from BPh IVb (MN I)

Fig. V.4.6 Pierced sherd PM0765 from BPh Va (MN II)

Fig. V.4.7 Pierced sherd PM0933 from BPh Vb (MN II)

Fig. V.4.8–9 Pierced sherds (8) PM0739, (9) PM0939 from BPh Vd (MN II)

Fig. V.4.10 Pierced sherd PM0718 from BPh Ve (MN II)

Fig. V.4.11 Pierced sherd PM0993 from BPh VIa (MN III)

Fig. V.4.12–13 Pierced sherds (12) PM0650 and (13) PM1017 from BPh VIb (MN III)

Fig. V.4.14–15 Pierced sherd (14) PM1011 and loom weight (15) PM1023 from BPh VIIa (transition MN III–LN I)

Fig. V.4.16–17 Loom weight (16) PM0456 and spindle whorl (17) PM0478 from BPh VIIc (LN I)

Fig. V.4.18–20 Loom weight (18) PM0347, spindle whorl (19) PM0348, loom weight (20) PM0377, all from BPh VIII (LN I, PM0348 possibly intrusive)

Chapter V.5. Various Clay and Sherd Tools (Eva Alram-Stern)

The clay and sherd tools are kept in the storerooms of the Ephorate of Antiquities of Larissa. Figs. V.5.1–2: photos by M. Börner, drawings by S. Horwath; Figs. V.5.3a–i: photos by K.-V. von Eickstett; Fig. V.5.4: photos by K.-V. von Eickstett, drawings by S. Horwath; Fig. V.5.5: photos by M. Börner, drawings by S. Horwath.

Fig. V.5.1 Sling bullets: (1) PM0881, (2) PM0888, (3) PM0779 BPh II and BSpH IVb (MN I); (4) PM0727, (5) PM0726, (6) PM0711 from BSpH Vd and Ve (MN II); (7) PM0655, (8) PM0653, (9) PM0646, (10) PM0996 from BSpH VIb (MN III); (11) PM0578, (12) PM0632 from BSpH VIIa (transition MN III/LN I); (13) PM0332, (14) PM0435 from BPh VIII (LN I)

Fig. V.5.2 Scrapers from BSpH IIIc, Ve and BPh VIII: (1) PM0917 + 0961, (2) PM0690, (3) PM0698, (4) PM0444

Fig. V.5.3 a. Rounded sherds: (1) PM0319, (2) PM0913, (3) PM0915, (4) PM0916, (5) PM0921, (6) PM0922, (7) PM0937, (8) PM0941, from BSpH IIIa–c, IVb and Ve (MN I)

Fig. V.5.3 b. Rounded sherds: (9) PM0676, (10) PM0990, (11) PM0961, (12) PM1002, (13) PM1008, (14) PM1009, (15) PM1015, (16) PM0553 from BSpH VIa and VIb (MN III)

Fig. V.5.3 c. Rounded sherds: (17) PM1016, (18) PM1022, (19) PM1025, (20) PM1026, (21) PM1027 from BSpH VIIb (LN I: SU 135 and 136)

Fig. V.5.3 d. Rounded sherds: (22) PM1028, (23) PM1029, (24) PM1030, (25) PM1031, (26) PM1032, (27) PM1033, (28) PM1034, (29) PM1035 from BSpH VIIb (LN I: SU 141)

Fig. V.5.3 e. Rounded sherds: (30) PM1036, (31) PM1037, (32) PM1038, (33) PM1039, (34) PM1040, (35) PM1041, (36) PM1046 from BSpH VIIb (LN I: SU 141); (37) PM1042, (38) PM1043, (39) PM1044 from BSpH VIIc (LN I: SU 142)

Fig. V.5.3 f. Rounded sherds: (40) PM1047, (41) PM1048, (42) PM1049, (43) PM1050, (44) PM1051, (45) PM1052, (46) PM1053, (47) PM1054, (48) PM1055, (49) PM1056, (50) PM1057 from BSpH VIIc (LN I: SU 151 and 152)

Fig. V.5.3 g. Rounded sherds: (51) PM0407, (52) PM0415, (53) PM0425, (54) PM0426, (55) PM0427, (56) PM1058, (57) PM1059, (58) PM1060, (59) PM1061, (60) PM1062, (61) PM1063 from BPh VIII (LN I: SU 153)

Fig. V.5.3 h. Rounded sherds: (62) PM1064, (63) PM1065, (64) PM1066, (65) PM1067, (66) PM1068, (67) PM1073, (68) PM1074, (69) PM1075, (70) PM1076, (71) PM1077, (72) PM1078, (73) PM1079, (74) PM1080 from BPh VIII (LN I: SU 160 and 161)

Fig. V.5.3 i. Rounded sherds: (75) PM1081, (76) PM1082, (77) PM1083, (78) PM1084, (79) PM1085, (80) PM1086, (81) PM1087, (82) PM1088, (83) PM1089, (84) PM1090, (85) PM1091 from BPh VIII (LN I)

Fig. V.5.4 Eight-shaped sherd tools: (1) PM0925, (2) PM0997

Fig. V.5.5 Sherd burnishers: (1) PM0914 from BSpH IIIa, (2) PM0920, (3) PM0923, (4) PM0926 from BSpH IVb, (5) PM0940 from BSpH Ve, (6) PM0944 from BSpH VIa, (7) PM1012, (8) PM1018, (9) PM1021 from BSpH VIIa, (10) PM1045 from BSpH VIIc

Chapter VI. Figurines, House Model and Ritual Vessels (Eva Alram-Stern)

The house model as well as some figurines are on exhibition in the Diachronic Museum of Larissa; all the other items are kept in the storerooms of the Ephorate of Antiquities of Larissa. The digital recording of the figurines was executed with a structured-light 3D scanner, using the programme 'Blender', edited with a non-photorealistic (NPR) shader and exported as graphics (3D ortho-photographs and drawings partly indicating the colours) by M. Börner.

Photos: Figs. VI.1, VI.27–37 by M. Börner; Figs. VI.2–26, VI.38–42 by K.-V. von Eickstett. Drawings: Figs. VI.1, 9, 11, 17, 39, 41 by S. Horwath; Figs. VI.6, 20, 22 by R. Exarhou. All 3D-models by M. Börner.

Fig. VI.1 PM0898. Leg or lower part of an anthropomorphic figurine, from BPh I

Fig. VI.2 PM0892. Leg of a seated anthropomorphic figurine, from BPh II

Fig. VI.3 PM0873. Leg of a seated anthropomorphic figurine, from BPh II

Fig. VI.4 PM0878. a–b. Right leg of a seated anthropomorphic figurine, from BPh II

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- Fig. VI.23 PM0577. Upper body of a female anthropomorphic figurine, from BSPH VIIa
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- Fig. VI.31 PM0912. a. Small asexual standing anthropomorphic figurine from house model, as placed in the house model; b. Small asexual standing anthropomorphic figurine from house model, BSPH VIIa
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Chapter VII. The Ornaments (*Nina Kyparissi-Apostolika*)

The ornaments are kept in the storerooms of the Ephorate of Antiquities of Larissa. Drawings by N. Kyparissi-Apostolika and Ch. Batzelas, digital transformation by R. Exarhou, photos by G. Dallas.

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Chapter IX. The Physical and Social Landscape of Neolithic Platia Magoula Zarkou (*Stella Souvatzi*)

The plans and photographs are kept in the archive of the Ephorate of Antiquities of Larissa. Fig. XI.2: geophysical picture by A. Sarris, plan edited by C. Batzelas; Fig. XI.4: geophysical picture by A. Sarris, plan edited by A. Buhlke.

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The plans are kept in the archive of the Ephorate of Antiquities of Larissa. Pl. III.1 edited by G. Toufexis, C. Batzelas, A. Buhlke; Pls. III.2–3 edited by C. Batzelas, A. Buhlke.

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