

A PRELIMINARY REPORT OF THE 1969 EXCAVATIONS AT ERBABA, A NEOLITHIC SITE NEAR BEYŞEHİR, TURKEY

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After the excavation of Suberde (Bordaz, 1966, 1970; Perkins and Daly, 1968), a Neolithic aceramic site of the first half of the 7th millennium located 13 kilometers southeast of Seydişehir, the site of Erbaba near Lake Beyşehir was selected for excavation on the basis of a survey conducted around the lake during the summers of 1965-66. The surface of Erbaba had yielded a neolithic pottery and so it was hoped that the site might overlap in time with aceramic Suberde and thus help to construct the chronological framework necessary to further archaeological research on the Neolithic in this region.

Erbaba tepe, approximately 80 meters in diameter, crowns a small natural hill some 10 kilometers north by west of Beyşehir. It lies immediately east of the road from Beyşehir to Isparta, 2.5 kilometers northeast of Gökkaşı (Kistifan). This site was first reported along with other Neolithic settlements by R. Solecki (1965) after his 1963 survey in the Beyşehir-Suğla Lake region. It is referred to as "Unnamed north Beyşehir. Site no. 9. 37 degrees 45. 9 minutes latitude North and 31 degrees 41 minutes longitude East".

After Professor Solecki's visit, some farmers had dug a trench 40 meters long, 4 meters wide, and as deep as 2.5 meters in the central part of the site (see figure 1). An examination of the sides of this trench by the author in 1966 showed remains of earthen and plaster floors. It was then reported that large numbers of stones had been removed from the trench for construction purposes. In 1968,

a few additional small pits were dug by farmers on the eastern and southern edges of the tepe and the stones encountered by them were piled on the eastern edge of the mound (see figure 2). Although no stones were visible on the surface of the tepe, it was immediately established during the excavations which began on June 21, 1969 that these stones had been part of the remains of an extensive complex of Neolithic houses and associated rubble covering about 5,000 square meters, only 20 to 40 centimeters below the surface of the mound.

The archaeological work conducted during the first season which ended on August 16, 1970 was essentially a sampling operation which had three purposes: First, to approximate the limits of the occupied area and define the rough characteristics of the settlement plan and architecture. Second, to examine the state of preservation of the structures and of the botanical and zoological remains necessary to reconstruct the ways of life of its inhabitants. And, third, to date roughly the site, especially in relation to other Anatolian Neolithic settlements such as Hacilar (Mellaart, 1961), Çatal Hüyük (Mellaart, 1967) and Suberde.

Three types of field methods were used to attain these goals: shallow pits and clearings, detailed area excavation, and deep test pits (see figure 1).

Initially, a series of rectangles 2 x 1 meters were excavated over the entire surface of the tepe. The largest number, dug down to the first stones encountered

- usually at a depth of 20 centimeters - were found piled in the southeast corner. No traces used to delimit the area of the stone of a roof were found, and aside from a large architecture and rubble layer. This area refuse pit eventually dug into the floor no seems to extend over 5,000 square meters (1 other features such as hearth, benches etc. 1/4 acres). A few of these shallow pits were were found in this construction. The corner extended into relatively large areas (areas A ofa founda- tion of an earlier similarly to E) where each stone was exposed oriented building at least 2.5 x 5.6 meters individually. This made it possible to pick up was found under the first floor of the the top of many walls and to obtain quickly structure just described. it is • also possible some indication of the plan of the last that some of the walls of the site were later settlement. The houses exposed were used as foundations for wattle and daub rectangular and apparently closely structures of which no traces have yet been constructed together found.

in rows with a common orientation or 20 The third method of digging consisted of degrees east of North. sinking 13 deep pits, generally 2 x 1 meters,

Subsequently, one of the seemingly over the entire area of the site down to better preserved structures revealed by sterile soil which was reached at a depth exposing the rubble layer was selected varying between 2.1 and 3.2 meters below for a detailed area excavation. All fea- the surface of the tepe. These test pits, dug tures of construction and occupation in 20 centimeter levels maximum, were were examined as far as possible in this adapted progres- sively to the features of operation. This structure in area D (see stratigraphy as the excavation advanced. figure 3) was rectangular and measured On the basis of these test pits the stratigraphy of Erbaba can preliminarily approximately 4 x 3.7 meters (inside be divided into four parts:

one place to a height of 1.33 meters, Layer I is a grey, sandy loam, loose in were made of rough limestone blocks texture and approximately 60-100 centi- secured by an earth mortar. Limestone meters thick. Layer il is a grey sandy loam, outcrops occur approximately 500 meters compact and 80 centimeters thick on an southwest of the site. The foundations of average. Layer ili is a brown sandy loam the walls generally consisted of large with many black (organic) lenses and burnt blocks (30-50 x 20 x 20 centimeters) areas; it is 1-1.5 meters thick. A certain over which superposed courses of usually number of large limestone block walls were three rows of flatter stones (25-60 x 10- found in layer 111 (see figure 4), but the 30 x 5-7 centimeters) were laid. The two upper layers seem generally richer in exterior rows were usually more carefully architecture - especially layer I. Traces of placed, while the stones in the middle occupation including a floor (figure 5) are were often only piled in with a large relatively well pre- served in layer 111. in amount of earth °fill. During the exca- one pit, large amounts of carbonized seeds vation of this structure, ten successive including cereals not yet identified have and distinct occupations were established, been recovered from this layer. Some characterized by layers of compact earth botanical material was also retrieved by or by a poor quality of grey plaster floor. At flotation of ashes and black organic lenses, one time the structure was divided by a also from layer 111. The faunal collection is large east-west wall visible on figure 3. At especially rich in layer 111 and includes a later date, a doorway was event- ally built little more than 10,000 identifiable into the north wall leading to an area specimens most of them cattle and sheep. yet unexcavated. Entrance to this room was apparently obtained through the roof, perhaps by means of the stones

A preliminary study of the morphological features and the age classes of the animals represented indicated domestic varieties. Very few specimens of hunted animals were found. No human burials appeared *in situ* but a few scattered human bones were recovered from time to time. Layer iV refers to the undisturbed soil, a red or yellow sandy loam with calcitic inclusions and less clay than in layers I, II, or III. At about 6 meters below the highest point of the tepé, a layer of shells was found on the edge of the mound suggesting an ancient lake bed or beach.

The chipped stone industry from Er- baba is less important than at Suberde both in absolute and relative terms, since only about 400 tools and fragments of tools and 1400 blades, flakes, and waste pieces showing little or no retouch were found. The industry differs also in the relative proportion of tools. Only a few projectile points were found at Erbaba, for instance, but sickle blades, notched and denticulated tools are more important than at Suberde. Other kinds of tools include end scrapers, circular scrapers, backed blades and piercers. Alternate retouch is common. The tools and fragments of tools are about equally divided between flint and obsidian but approximately 3/4 of the largely unretouched blades, flakes and waste are in obsidian. Flint is generally used for the larger and heavier tools such as scrapers. The source of obsidian is most likely to have been in the mountains to the east of the Konya plain, while flint deposits are said to exist in the mountains to the west of Lake Beyşehir.

The worked bone and antler industry includes more than 150 pieces, especially awls, needles, spatulae, and spoons. Handles of antler and one eye section of a bone hook and eye belt buckle were also found.

Approximately 150 specimens of ground stone artifacts were collected. The most common kind of grinding stone is relatively small (20-30 centimeters in length)

and oval in shape with a rounded base. Other kinds of ground stone artifacts include handstones, pestles, polishers and small balls.

The polished stone industry includes a small number of green stone celts and beads of variously colored stone.

A relatively small amount of shell and fragments of shells including a few marine specimens also appeared in the course of excavation.

The potsherd collection which exceeds 11,000 pieces includes essentially two types of wares which seem to contrast in their distribution. The pottery from the upper layers of the site is usually a well-polished monochromatic ware in red, brown and yellowish-grey. The paste is coarse, containing large amounts of small gastropods, the most common forms being hole-mouthed jars usually with direct rims, flat bases, and crescentic ledges or lugs. The pottery in the lower layer is usually dull black or brown and of coarse paste with a sand temper containing muscovite. The shapes appear to be similar to the pottery described above except that the walls are often thinner. Handles are crescentic or circular ledges usually vertically perforated. Potsherds are generally less numerous in layer

111. A preliminary study of the pottery attributes, mainly the forms of lugs and ledges, suggests relationships both to Çatal Hüyük East and to Hacılar VI-IX, that is to the sites illustrating respectively the early and late Neolithic of the Pisidian Lakes and Konya region as defined preliminarily by J. Mellaart.

Other ceramic finds are rare and include mainly three fragmentary human figurines. The most complete is a diminutive female figurine only 2 centimeters high without the missing head.

The results of the 1969 sampling excavation of Erbaba indicate that the site will probably be an excellent source of information for the Anatolian Neolithic. As we have seen above, the site apparently relates both to the early and late Neolithic Çatal Hüyük and Hacılar and might thus provide from a geographically intermediate area useful

comparisons between these two important sites of Anatolian prehistory. The suggested chronological overlap of Erbaba with Çatal Hüyük and Hacılar would indicate a date in the middle or late 6th millennium. Radiocarbon dates are being processed. One other advantage of the site is that it has apparently not been much disturbed in post-Neolithic times. The only definite later material (glass, nails, later pottery sherds) number less than a dozen specimens. Since, in addition, the fauna and botanical remains seem well preserved, especially in the third and thickest layer, it would seem that the opportunities for a functional reconstruction of the ways of life of this community

and of its economic subsistence are promising. The results of the 1969 season will be studied during the summer of 1970 in the Konya Museum where the collections are stored. It is planned that an excavation program, guided by the results of the 1969 sampling season and the 1970 study program will be initiated in 1971 and continued over a period of years in order to increase our knowledge of these early communities of agriculturists and herders of the Anatolian Neolithic. The cooperation offered by Mr. Hikmet Gürçay, Director of the Turkish Antiquities Service, Mr. Burhan Tezcan, Director of Excavations, and by Mr. Gürbüz Alp, representative of the Service

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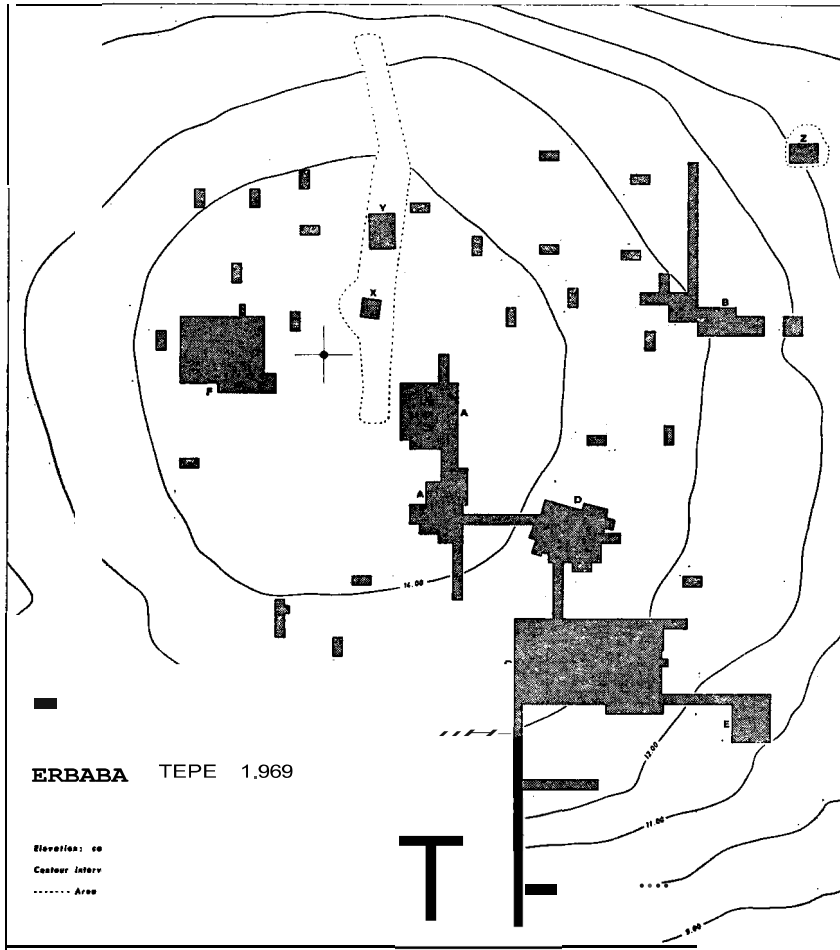


Fig. 1

figure .1-

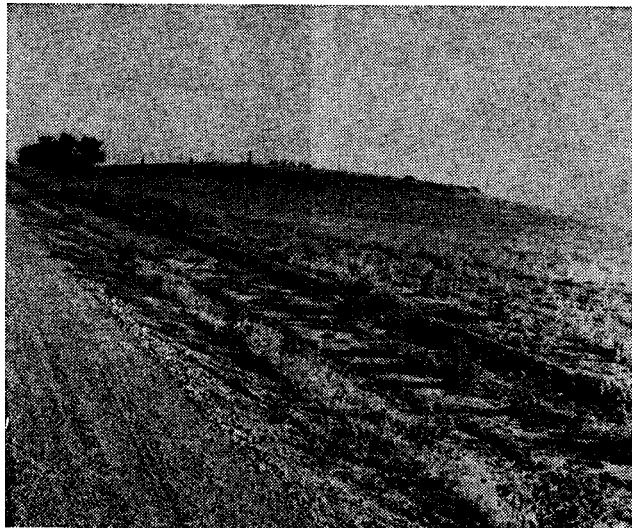
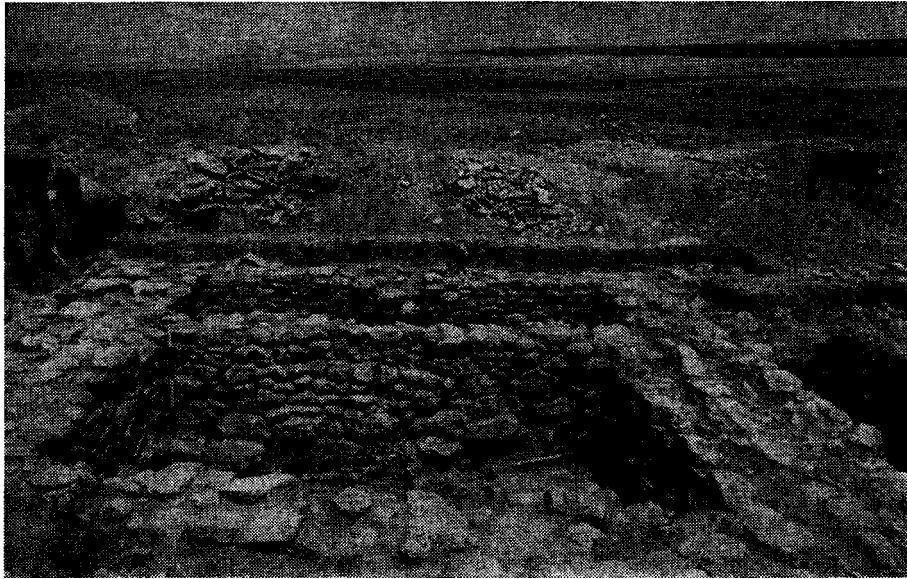
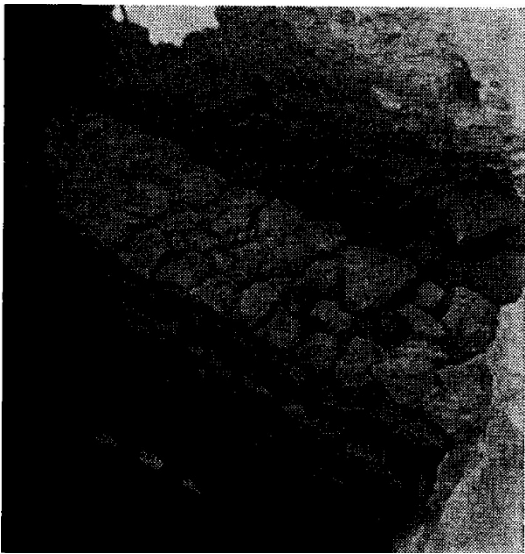


Fig. 2



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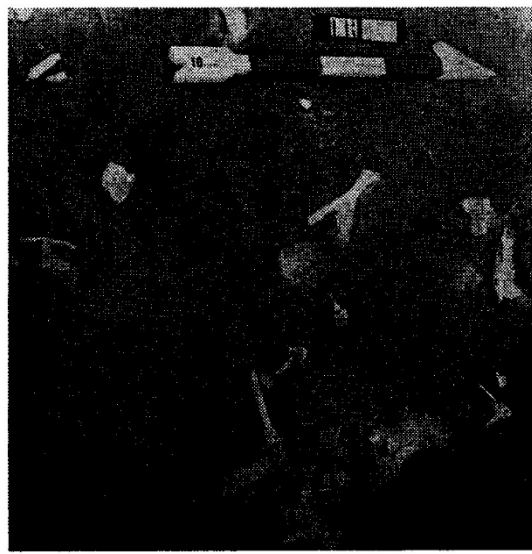


Fig. 5

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