

ÖKÜZINI CAVE—A VIEW FROM THE LEVANT

Ofer Bar-Yosef

In Anatolia, the sequence of lithic industries of the Late Paleolithic, or the Epi-Paleolithic, as it is called in the Levant, is known from only a few sites. The best recorded site is Öküzini Cave, where more than 60 radiocarbon dates span the time from 16,500 BP to 8,500 BP (YALÇINKAYA *et al.*, 1995; OTTE *et al.*, 1995). Other sites include those excavated by Bostanci, such as Beldibi and Belbasi (BOSTANCI, 1962, 1966). In order to compare the two regional sequences it is necessary to first briefly summarize the Levantine sequence. This summary will be followed by a socio-economic interpretation of the sequence which, given the limited space, will rely heavily on previously published papers.

The Levantine Epi-Paleolithic is well-known from systematic surveys and excavations in the central and southern Levant (e.g., BAR-YOSEF, 1990; BAR-YOSEF and BELFER-COHEN, 1989, 1992; BAR-YOSEF and MEADOW, 1995; GORING-MORRIS, 1987, 1995; GORING-MORRIS *et al.*, 1998; HENRY, 1989, 1995; BYRD and GARRARD, 1990; VALLA, 1995). Less is known about the northern Levant, which borders the arc of the Taurus (e.g., FUJIMOTO, 1979; CAUVIN, 1981, 1987; CAUVIN and COQUEGNIOT, 1988).

The Levantine Epi-Paleolithic lithic sequence, except for its final phase, demonstrates a general continuation of the knapping traditions of the local Upper Paleolithic. It is essentially a blade/bladelet microlithic industry. However, the important aspect is the kind of core reduction strategy sought by the producers of the bladelets. At the same time normal, standardized blade production from prismatic cores, continued (e.g., BAR-YOSEF, 1999; GORING-MORRIS *et al.*, 1998).

In keeping with the chronology present in Öküzini, I only discuss the Kebaran and later industries, without touching on the subject sometimes called the Late Ahmarian. However, for lack of space, other aspects such as site size, and site furniture and installations are not discussed here. In most Epi-Paleolithic sites, as in Upper Paleolithic contexts, pounding and grinding stone tools were uncovered (WRIGHT, 1991).

The definition of the Epi-Paleolithic entities was and is done on the basis of clusters of lithic assemblages which differ from one another by the shape of the retouched and backed microliths (e.g., BAR-YOSEF, 1981; GORING-MORRIS, 1995, 1987). All these assemblages regardless of the dominant type or types of microliths contain variable frequencies of other tool groups. It is generally agreed that the overall composition of the assemblages reflects the activities carried out on-site as well as in the surrounding territory and even farther away in different ecological habitats. In a previous study (BAR-YOSEF and BELFER-COHEN, 1989) we estimated the size of the territory covered by one band of

foragers to range between 250-350 square km in the coastal ranges (such as Mount Carmel and the Galilee), and to be larger in the steppe zone.

The Kebaran complex (22/21,000 to ca. 17,500 cal. BP) is known from the coastal ranges of the southern and central Levant including the Transjordanian plateau and a few oases. It is not present in the arid belt. The few available radiocarbon dates indicate that the Kebaran was partially at least contemporary with the Late Glacial Maximum. Hence, the particular distribution of the Kebaran sites marks the limits of the habitable region during the LGM, when cold and dry conditions prevailed over the entire Near East. This observation is currently supported by the detailed study of the Palmyra basin (BESANÇON *et al.*, 1997).

The common operational sequence (*chaîne opératoire*) among Kebaran sites was aimed at the production of carinated cores (originally called narrow cores or resemble the *rabot* type; see BAR-YOSEF 1991, 1998). By shaping a narrow, elongated core with a 'nosed' front, a series of bladelets could be more easily removed. The keel of the core, or where the tip of the bladelets end, was shaped by bifacial removal of small flakes. Hence, even in most exhausted cores one can identify the original design.

The chosen bladelet blanks were then shaped into microlithic types. Most common are the curved micro-points and the Kebara point, an obliquely truncated backed bladelet. In the Azraq basin, the common types were also double curved, and they resemble narrow elongated lunates.

The use of the microburin technique is reported mainly from sites east of the Jordan River such as Yabrud III (RUST, 1950) or in the Azraq region (BYRD, 1988, 1994). It is also reported from Nahal Hadera V, near the southern end of Mt. Carmel.

The typological and quantitative variability of the Kebaran is known from many surface sites and a few excavations. It should be stressed that in some Kebaran assemblages we also find small triangles, although these are always in very small quantities. Despite these finds, however, the chronology of the different cultural groups within the Kebaran is still poorly known.

Beginning around 17,000/17,500 cal. BP we notice a change in the lithic industries and the overall geographic distribution of sites. Several clusters of different assemblage types were recorded. The distinct trait of the prevailing industry on the western side of the Levant are the geometric microliths. These are elongated trapezes and trapeze-rectangles, and their frequencies were employed in order to define the entity of the Geometric Kebaran. On the eastern side of the Levant we find a larger variety of dominant microlithic and

geometric types (see BYRD, 1994 and references therein).

The Geometric Kebaran assemblages are found from the El-Kown basin in northeast Syria and the middle Euphrates valley, through Israel, Jordan, as well as southern Sinai (CAUVIN, 1981, 1987; GORING-MORRIS, 1987, 1995; ROODENBERG, 1976). Local variants are numerous, especially in central Jordan (BYRD and GARRARD, 1990; GARRARD *et al.*, 1988). Mostly it seems that industrial 'facies' with triangles such as Jilat 6 upper (BYRD, 1988, 1994), or with dominance of lunates and triangles such as the Middle and Late Hamran (HENRY, 1988, 1989), co-exist with the more classical Geometric Kebaran between 17,000 and 15,000 cal. BP. During this time span, an entity known as the Mushabian emerged in the Sinai and the Negev. It deserves special treatment because its origins could have been in Northeast Africa, thus indicating movements of foragers into steppic environments, forming new territorial delineations.

The Early Mushabian (ca. 16,200-13,500 BP) is characterized by arched backed bladelets and La Mouillah points, which were manufactured with the microburin technique and accompanied by large tools (scrapers, disks, etc.). It is the combination of La Mouillah points and the wider version of the backed arched bladelets forms that led to the suggestion of a northeast African origin for this entity. North African microliths are arched backed bladelets, scalene triangles, *piquant trièdre*, and others, mostly shaped by the microburin technique, or the Krukowski burin, which is an accidental snap while backing a bladelet on an anvil (e.g., CLOSE, 1978; CLOSE and WENDORF, 1990; TIXIER, 1963). However, the proposal to interpret the Mushabian as belonging to a migrating population is not based solely on the use of microburin technique given that this technique was already employed for snapping bladelets in the Levant from around 22/21,000 cal. BP in sites such as Uwaynid (GARRARD *et al.*, 1987; GARRARD *et al.*, 1988; GARRARD *et al.*, 1994). Based on studies in the anthropology of technology, our previous suggestion of (BAR-YOSEF and PHILLIPS, 1977) the origin of the Mushabian population can be rephrased. It assumes that migrants continue to use the *chaîne opératoire* from their homeland in their new land. Thus the proposal that the Mushabian originated in Northeast Africa means that the microburin technique was an integral component of their *chaîne opératoire* through which they continued to produce the particular microlithic types, which are prevalent in assemblages essentially found in northern Sinai.

The Late Mushabian, also known as Ramonian (GORING-MORRIS, 1987, 1995), is dominated by obliquely truncated backed bladelets (sometimes with incurved back), shaped with the aid of microburin technique, and Helwan lunates. This industry is contemporary with the Early Natufian, which first appeared in the archaeological record around 15,600/14,400 cal. BP. We should note that the ambiguities concerning the earliest age of the Natufian are inherent, due to rare radiocarbon dates and the plateau in the calibration curve. This cultural entity could be seen as the technical modification that occurred through time. The Early Natufian was first recognized within the Mediterranean vegetational belt in the southern Levant.

The lithic industry of the Early Natufian shows a change in the common *chaîne opératoire*. Blanks were often produced from cores with more than one striking platform. In most cases the blanks chosen for further shaping were made from short, narrow flakes and short, wide bladelets. Thus the main products mark the departure from the removal of slender bladelets that characterized the previous Epi-Paleolithic entities. The chosen blanks were often shaped into geometric forms. These were essentially Helwan lunates and backed lunates. Other tool types were sickle blades, scrapers, burins (mainly in the more forested hilly areas), elaborate denticulates, and perforators.

The Late Natufian (dated to around 13,000-11,500/300 cal. BP which correspond to the Younger Dryas cold event), is mainly characterized by the dominance of backed lunates, which often become shorter in comparison to earlier assemblages. Not all the prehistoric groups in the Early and Late Natufian used the microburin technique. This distinction enabled the identification of specific groups on the basis of their *chaîne opératoire* and their geographic location. The Late Natufian expanded geographically into the northern Levant where it faced other groups bearing different microlithic components.

The final Epi-Paleolithic entity is the Harifian (ca. 12,500-11,300 cal. BP, but probably lasted a shorter time), is a desertic adaptation of the Late Natufian and thus has clear territorial limits in the Negev and northern Sinai (GORING-MORRIS, 1991). Other parts of the Levant document the continuation of the Late Natufian, perhaps with a few local variants. The shift to the Khiamian marks the onset of the Early Neolithic (around 11,500/11,300 cal. BP) along the Levantine Corridor (BAR-YOSEF and BELFER-COHEN, 1989, 1991).

Our knowledge of the Late Paleolithic or the Epi-Paleolithic of the Zagros region, which is much larger than the Levant, is still rather fragmentary (KOZŁOWSKI, 1999; OLSZEWSKI, 1993; SMITH, 1986). It is assumed that the Baradostian, often equated with the Levantine Upper Paleolithic, evolved into the Zarzian, a term that incorporates both microlithic tools with low frequencies of geometric forms, as well as the assemblages in which geometric microliths, mainly triangles, dominate (e.g., OLSZEWSKI, 1993; WAHIDA, 1981, 1999). Several features differentiate the Zagros from the Levant: (1) the accidental or ephemeral use of the microburin technique; (2) the tendency for triangles to dominate the geometric group; and (3) the rare presence of the Zarzi shouldered point.

The Anatolian Late Paleolithic is now better known from the sites of Öküzini and Karain B. Excavations in these sites provided information on the period between 22,000 to about 9,500 cal. BP (ALBRECHT, 1988; ALBRECHT *et al.*, 1992; OTTE *et al.*, 1995, 1998; YALÇINKAYA *et al.*, 1995). For the first time we have a dated sequence in which the microlithic component begins with non-geometric forms and ends with the introduction of a small number of geometric types. This sequence is characterized by high frequencies of backed bladelets and the presence of microgravettes. The geometric microliths make their first appearance at Karain B but are definitely more numerous from Unit VII onward in Öküzini. The main geometric

types are the triangles, lunates, and a few trapezes. No evidence for systematic use of the microburin technique was found. From this aspect the Öküzini microlithic industries more closely resemble the Zarzian than the Levantine sequence. This observation is supported by the techno-typological comparison between the assemblages of layers IV, III, and II at Öküzini with the roughly contemporary Natufian industries (ca. 15,500/14,400–11,300 cal. BP).

An additional typological trait that is reminiscent of the Zagros assemblages is the dominance of short and 'thumb nail' scrapers. The size of the scrapers is due in part to resharpening but can also be attributed to the size of the radiolarite nodules. However, compared to the techno-typological variability within the Natufian complex, the avoidance of the microburin technique at Öküzini may demonstrate either the expression of cultural preferences or the preservation of technical tradition. It cannot be attributed to the kind of exploited raw material.

The upper units (Layer I) in Öküzini testify to a partial contemporaneity with the Early Neolithic of Anatolia. The broken polished axe from unit 1 could have been an item exchanged with farmers or a local imitation. Such celts are known since the early days of the PPNA sites in the southern Levant.

The relationships between the assemblages of Belbasi and Beldibi, excavated and reported long ago by Bostanci (1962, 1966), should now be examined. Whereas Beldibi is located close to the shore, Belbasi, like Öküzini, is an inland site. This geographic configuration led us to propose that there was a seasonal movement of foragers between the foothills of the Taurus and the coast. There is, of course, a difference between Öküzini and Belbasi. The first is situated near a copious spring at the level of the large flat plateau which stretched all the way to the Mediterranean Sea. The second site is situated at an elevated altitude in the steep hilly area. Hence, these two sites could have been occupied during different seasons. Öküzini, like Karain B, could be a winter/springtime locality; Belbasi could be a hunting station for summer time. While this was probably an optimal mobility pattern for the colder periods until about 15,000/14,500 cal. BP, a different settlement pattern can be expected for the Bölling/Alleröd period when temperatures rose and precipitation increased. During that time the coastal ranges became more heavily forested. Higher altitudes would provide fruits and hunting in late summer and fall and lower altitude sites would be ideal winter shelters. Testing this hypothesis will rely on seasonality information derived from faunal and plant remains.

With the warming climate and the expansion of forest and woodland areas during the Terminal Pleistocene, plant food resources would have been increasingly available in the intermontane valleys of the Taurus. After 10,000 cal. BP, the presence of farming communities in the Anatolian plateau became an attraction for foragers, whether for reasons of exchange or temporary work. The archaeological situation which indicates this kind of contemporaneity is presented in Fig. 1, where the geographic distribution is reconstructed from the available published sources (e.g., BAR-YOSEF and MEADOW, 1995; ÖZDOĞAN, 1995; DURU, 1999).

In this context, we need to place the assemblages of Belbasi and the upper layers in Beldibi within the

currently established sequence of Karain B and Öküzini. It seems that both Belbasi and the uppermost layers at Beldibi could be of early Holocene age. Hence, they represent the same contemporaneity recently established in the Konya plain between the site of Pınarbası (WATKINS, 1996) and local Neolithic settlements such as Çatal Höyük. Like the uppermost dated assemblages in Öküzini, these sites offer the archaeological evidence for the later persistence of societies of hunter-gatherers.

In a previously published summary (BAR-YOSEF and MEADOW, 1995) we followed the ideas of others, such as J. Cauvin, in proposing that Neolithic societies advanced from the Euphrates and the Tigris valleys into the central Anatolian plateau. It seems that the new information from the Konya plain and the Antalya region supports this contention. Hence, the late date of the Epi-Paleolithic industries indicates that groups of hunter-gatherers lived contemporaneously with Neolithic farmers. A similar situation is recorded in certain areas of the Levant. Once cultivation was established during the PPNA times in the Levantine Corridor between the Damascus basin and Jericho, hunter-gatherers continued to survive in marginal, semi-arid areas. One site of that period, Abu Madi I, was excavated in southern Sinai (BAR-YOSEF, 1985). The site was a seasonal habitation of hunter-gatherers who produced microliths, including Helwan lunates, long after this form disappeared from the sequence of the Mediterranean homeland. Other examples are the PPNB sites of foragers that were excavated in southern Sinai and the Azraq basin in Jordan (e.g., BAR-YOSEF, 1984, in press; GARRARD *et al.*, 1988; GARRARD *et al.*, 1994; GOPHER, 1994; GORING-MORRIS, 1993).

Technological shifts, some of which are still poorly known, need to be mentioned. For example by 11-10,000 BP the evidence from Franchti cave (PERLÈS, 1979, 1992) and the Cypriote site at Akrotiri-Aete (SIMMONS, 1988; SIMMONS and WIGAND, 1994) indicate that navigation was already practiced by the coastal bands of Mediterranean hunter-gatherers. These early crossings were followed by farming or horticultural communities, a fact that is well known from the ensuing wave of colonization of the Mediterranean islands (e.g., CHERRY, 1990).

In conclusion, when compared to the Levantine sequence, the Anatolian Late Paleolithic or Epi-Paleolithic has its own typological and technological character. Given the small number of excavated and reported sites, any reconstruction of social structure would be premature. The socio-economic changes caused by the onset of the agricultural revolution in the Levant make the results of the excavations at Öküzini one of the most important sources of information for evaluating the impact that farming communities had on the last foragers of the early Holocene.

REFERENCES

- ALBRECHT G., 1988. Preliminary results of the excavation in the Karain B cave near Antalya, Turkey: The Upper Palaeolithic assemblages and the Upper Pleistocene climatic development. *Paléorient* Vol. 14, pp. 211-222.
- ALBRECHT G., B. ALBRECHT, H. BERKE, D. BURGER, J. MOSER, W. RÄHLE, W. SCHOCH, G. STORCH, H. P. UERPMANN, B. URBAN, 1992. Late Pleistocene and Early Holocene finds from Öküzini: A

- contribution to settlement history of the bay of Antalya, Turkey. *Paléorient* Vol. 18, pp. 123-141.
- BAR-YOSEF O., 1981. Epi-Palaeolithic complexes in the southern Levant. In: J. Cauvin and P. Sanlaville (ed.). *Préhistoire du Levant*. Paris, CNRS Editions, pp. 389-408.
- BAR-YOSEF O., 1984. Seasonality among Neolithic hunter-gatherers in southern Sinai. In: J. Clutton-Brock and C. Grigson (eds.). *Animals and Archaeology*, 3. *Herders and Their Flocks*. Oxford, BAR 202, pp. 145-160.
- BAR-YOSEF O., 1985. The Stone Age of the Sinai Peninsula. In: M. Puglisi, M. Liverani, A. Palmieri and P. Peroni (eds.). *Studi di Paleontologia in Onore di Salvatore. Rome, Università di Roma "La Sapienza"*, pp. 107-122.
- BAR-YOSEF O., 1990. The Last Glacial Maximum in the Mediterranean Levant. In: C. Gamble and O. Soffer (eds.). *The World at 18,000 BP. Vol. 2, Low Latitudes*. London, Unwin Hyman, pp. 58-72.
- BAR-YOSEF O. (1991). The search for lithic variability among Levantine Epi-Palaeolithic industries. 25 *Ans d'Études Technologiques en Préhistoire. Bilan et perspectives. XI Rencontres Internationales d'Archéologie et d'Histoire d'Antibes*. C. d. R. A. d. CNRS. Ville d'Antibes, Éditions APDCA: 319-336.
- BAR-YOSEF O. (1998). Öküzini - Comparisons with the Levant. *Préhistoire d'Anatolie: Genèse de deux mondes. Actes du colloque international. Liège, 28 avril - 3 mai 1997*. M. Otte. Liège, ERAUL 85: 501-508.
- BAR-YOSEF O. and J. PHILLIPS, 1977. *Prehistoric Investigations in Jebel Meghara, Northern Sinai*. Hebrew University, Jerusalem.
- BAR-YOSEF O. and M. KISLEV, 1989. Early farming communities in the Jordan valley. In: D. R. HARRIS and G. C. HILLMAN (eds.). *Foraging and Farming: The Evolution of Plant Exploitation*. London, Hyman and Unwin, pp. 632-640.
- BAR-YOSEF O. and A. BELFER-COHEN, 1989. The Levantine "PPNB" interaction sphere. In: I. Herskovitz (ed.). *People and Culture in Change*. Oxford, BAR International Series 508(i), pp. 59-72.
- BAR-YOSEF O. and A. BELFER-COHEN, 1992. From Foraging to Farming in the Mediterranean Levant. In: A. B. Gebauer and T. D. Price (eds.). *Transitions to Agriculture in Prehistory*. Madison, Prehistory Press, pp. 21-48.
- BAR-YOSEF O. and R. H. MEADOW, 1995. The Origins of Agriculture in the Near East. In: T. D. Price and A. B. Gebauer (eds.). *Last Hunters, First Farmers: New Perspectives on the Prehistoric Transition to Agriculture*. Santa Fe, School of American Research Press, pp. 39-94.
- BESANÇON J., A. DELGIOVINE, M. FONTUGNE, C. LALOU, P. SANLAVILLE, and J. VAUDOUR, 1997. Mise en évidence et datation de phases humides du Pléistocène supérieur dans la région de Palmyre (Syrie). *Paléorient* Vol. 23, pp. 5-23.
- BOSTANCI E., 1962. A New Upper Palaeolithic and Mesolithic Facies at BelBasi Rock-Shelter on the Mediterranean Coast of Anatolia. *The Belbasi Industry* Vol. XXVI, No. 102, pp. 233-292.
- BOSTANCI E., 1966. The Mesolithic of Beldibi and Belbasi and the relation with the other findings in Anatolia. *Antropoloji* Vol. 3, pp. 91-140.
- BYRD B. F., 1988. Late Pleistocene settlement diversity in the Azraq Basin. *Paléorient* Vol. 14, pp. 257-264.
- BYRD B. F., 1994. Late Quaternary hunter-gatherer complexes in the Levant between 20,000 and 10,000 BP. In: O. Bar-Yosef and R. Kra (eds.). *Late Quaternary Chronology and Paleoclimates of the Eastern Mediterranean*. Tucson and Cambridge, Radiocarbon and the Peabody Museum of Archaeology and Ethnology, Harvard University, pp. 205-226.
- BYRD B. F. and A. N. GARRARD, 1990. The Last Glacial Maximum in the Jordanian Desert. In: C. Gamble and O. Soffer (eds.). *The World at 18000 BP, vol. 2, Low Latitudes*. London, Unwin Hyman, pp. 78-92.
- CAUVIN M. C., 1981. L'Épipaléolithique de Syrie d'après les premiers recherches dans la cuvette d'el Kown (1978-1979). In: J. Cauvin and P. Sanlaville (eds.). *Préhistoire du Levant*. Paris, CNRS Editions, pp. 375-388.
- CAUVIN M. C., 1987. Chronologies relatives et chronologie absolue dans l'Épipaléolithique et le Natoufien du Levant Nord. In: O. Aurenche, F. Évin and F. Hours (eds.). *Chronologies in the Near East: Relative Chronologies and Absolute Chronology 16,000-4,000 B.P.* Oxford, BAR International Series 379, pp. 1-24.
- CAUVIN M. C., and E. COQUEGNIO, 1988. L'oasis d'El Kown et le Kébarien géométrique. *Paléorient* Vol. 14, pp. 270-282.
- CHERRY J. F., 1990. The first colonization of the Mediterranean islands: A review of recent research. *Journal of Mediterranean Archaeology* Vol. 3, pp. 145-221.
- CLOSE A. E., 1978. The identification of style in lithic artefacts. *World Archaeology* Vol. 10, pp. 223-237.
- CLOSE A. E. and F. WENDORF, 1990. North Africa at 18,000 B.P. In: C. Gamble and O. Soffer (eds.). *The World at 18000 BP, vol. 2, Low Latitudes*. London, Unwin Hyman, pp. 41-57.
- DURU, R. (1999). The Neolithic of the Lake District. In: M. Özdoğan and N. Basgele (eds.). *Neolithic of Turkey: Cradle of Civilization. New Discoveries*. M. Özdoğan and N. Basgele. Istanbul, Arkeoloji ve Sanat Yayınları: 165-192.
- FUJIMOTO T., 1979. The Epi-Palaeolithic assemblages of Douara Cave. *Bulletin University Museum, Tokyo* Vol. 16, pp. 47-75.
- GARRARD A., D. BAIRD, and B. F. BYRD, 1994. The chronological basis and significance of the Late Paleolithic and Neolithic sequence in the Azraq Basin, Jordan. In: O. Bar-Yosef and R. Kra (eds.). *Late Quaternary Chronology and Paleoclimates of the Eastern Mediterranean*. Tucson and Cambridge, Radiocarbon and the Peabody Museum, Harvard University, pp. 177-200.
- GARRARD A., A. BETTS, B. BYRD, and C. HUNT, 1987. Prehistoric Environment and Settlement in the Azraq Basin: An Interim Report on the 1985 Excavation Season. *Levant* Vol. 19, pp. 5-25.
- GARRARD A., A. BETTS, B. BYRD, and C. HUNT, 1988. Summary of Palaeoenvironmental and Prehistoric Investigations in the Azraq Basin. In: A. N. Garrard and H. G. Gebel (eds.). *The Prehistory of Jordan*. Oxford, BAR International Series S396 (i), pp. 311-337.
- GOPHER A., 1994. *Arrowheads of the Neolithic Levant: A Seriation Analysis*. Winona Lake, Indiana, Eisenbrauns.
- GORING-MORRIS A. N., 1987. *At the Edge: Terminal Pleistocene hunter-gatherers in the Negev and Sinai*. Oxford, BAR International Series.
- GORING-MORRIS A. N., 1991. The Harifian of the Southern Levant. In: O. Bar-Yosef and F. R. Valla (eds.). *The Natufian Culture in the Levant*. Ann Arbor, International Monographs in Prehistory, pp. 173-216.
- GORING-MORRIS A. N., 1993. From foraging to herding in the Negev and Sinai: the early to late Neolithic transition. *Paléorient* Vol. 19, pp. 65-89.
- GORING-MORRIS A. N., 1995. Complex Hunter-Gatherers at the End of the Palaeolithic (20,000-10,000 B.P.). In: T. E. Levy (ed.). *The Archaeology of Society in the Holy Land*. London, Leicester University Press, pp. 141-168.
- HENRY D. O., 1988. The Epipalaeolithic sequence within the Ras en Naqb-el-Quweira area, southern Jordan. *Paléorient* Vol. 14, pp. 1-10.
- HENRY D. O., 1989. *From Foraging to Agriculture: The Levant at the End of the Ice Age*. Philadelphia, University of Pennsylvania Press.
- HENRY D. O., 1995. *Prehistoric Cultural Ecology and Evolution*. New York, Plenum Press.
- KOZŁOWSKI S. K., 1999. *The Eastern Wing of the Fertile Crescent: Late Prehistory of Greater Mesopotamian Lithic Industries*. Oxford, Archaeopress.
- OLSZEWSKI D. I., 1993. The Zarzian Occupation at Warwasi Rockshelter, Iran. In: D. I. Olszewski and H. L. Dibble (eds.). *The Paleolithic Prehistory of the Zagros-Taurus*. Philadelphia, The University Museum, University of Pennsylvania, pp. 207-236.
- OTTE M., I. YALÇINKAYA, J. M. LÉOTARD, M. KARTAL, O. BAR-YOSEF, J. KOZŁOWSKI, and I. LÓPEZ-BAYÓN, 1995. The Epi-Palaeolithic of Öküzini cave (SW Anatolia) and its mobiliary art. *Antiquity* Vol. 69, pp. 931-944.
- OTTE M., I. YALÇINKAYA, et al. (1998). Öküzini: un site de chasseurs épipaléolithiques en Anatolie. In: M. Otte (ed.). *Préhistoire d'Anatolie: Genèse de deux mondes. Actes du colloque international. Liège, 28 avril - 3 mai 1997*. Liège, ERAUL 85: 531-550.
- ÖZDOĞAN M., (1995). Neolithic in Turkey - the status of research. In: *Readings in Prehistory- Studies presented to Halet Çambel*. Istanbul, Graphics. pp. 41-59.
- ROODENBERG C., 1976. Une industrie épipaléolithique sur le Nahr el Homr (Syrie). *Annales Archéologiques Arabes Syriennes* Vol. 27, pp. 71-81.
- RUST A., 1950. *Die Höhlenfunde von Jabrud (Syrien)*. Neumünster, Karl Wacholtz Verlag.
- SIMMONS A. H., 1988. Extinct Pygmy Hippopotamus and Early Man in Cyprus. *Nature* Vol. 333, pp. 554-557.
- SIMMONS A. H. and P. E. WIGAND, 1994. Assessing the radiocarbon determinations from Akrotiri Atokremnos, Cyprus. In: O. BAR-YOSEF and R. S. KRA (eds.). *Late Quaternary Chronology and Paleoclimates of the Eastern Mediterranean*. Tucson and Cambridge, Radiocarbon and the Peabody Museum, Harvard University, pp. 247-254.
- SMITH P. E. L., 1986. *Palaeolithic Archaeology in Iran*. Philadelphia,

- The American Institute of Iranian Studies, The University Museum, University of Pennsylvania.
- TIXIER J., 1963. *Typologie de l'Épipaléolithique du Maghreb*. Paris, C.R.A.P.E., 2.
- WAHIDA G., 1981. The Re-excavation of Zarzi, 1971. *Proceedings of the Prehistoric Society* Vol. 47, pp. 19-40.
- WAHIDA, G. A. (1999). The Zarzian Industry of the Zagros Mountains. In: W. Davies and R. Charles (eds.). *Dorothy Garrod and the Progress of the Palaeolithic*. Oxford, Oxbow Books: 181-208.
- WATKINS T., (1996). Excavations at Pınarbaşı: the Early Stages. In: I. Hodder (ed.) *On the Surface: Çatalhöyük 1993-1995*. British Institute of Archaeology at Ankara and the McDonald Institute Monographs. pp. 47-58.
- WRIGHT K., 1991. The Origins and Development of Ground Stone Assemblages in Late Pleistocene Southwest Asia. *Paléorient* Vol. 17, pp. 19-45.
- YALÇINKAYA I., J.-M. LÉOTARD, M. KARTAL, M. OTTE, O. BAR-YOSEF, I. CARMI, A. GAUTIER, E. GILLOT, P. GOLDBERG, J. KOZŁOWSKI, D. L., I. LOPEZ-BAYON, M. PAWLIKOWSKI, S. THIEBAULT, V. ANCION, M. PATOU, A. BARBIER, and D. BONJEAN, 1995. Les occupations tardiglaciaires du site d'Öküzini (sud-ouest de la Turquie): résultats préliminaires. *L'Anthropologie* Vol. 100, pp. 562-585.