Kani Mikaiil: a seasonal cave site of the Middle Neolithic period in Kurdestan, Iran

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FIGURE 1 (above, left). Kani Mikaiil, general view.

FIGURE 2 (above, right). Inside view of the cave. TT1 and TT2 are seen respectively at upper left and upper right of the picture.

After several years of hiatus in Palaeolithic research in Iran, increasing activity in this field began in the early 1990s (see among others: Biglari 2000; Biglari & Heydari 2001; Roustaei et al. 2002). Although the Zagros Mountains in western Iran were the main focus of the previous archaeological fieldwork, there still remain in the region areas that are not archaeologically well known. With the exception of the two sites of Ziwiyeh and Karaftoo cave, the province of Kurdestan in western Iran is one of these lesser-known areas.

With this problem in mind, when Mr Hassan Rezvani, director of the Karaftoo cave Project, invited us to participate in the excavations, we took the opportunity to join him to investigate the potential of the region for archaeological evidence pertaining to Palaeolithic life. Following an initial survey of a number of potential cave sites near Karaftoo cave, we selected Kani Mikaiil cave for testing. The excavations were conducted from early September to mid October 2001.

From the beginning, we were aware that because of high elevation (c. 2100 m) the region might not be rich in Palaeolithic remains. Our reason for this uncertainty was based largely on the fact that, according to some palaeoclimatic evidence,

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the snow line in the Zagros during the Pleistocene was at about 1200–1800 m a.s.l. (Wright 1983). Even today, Kurdestan is famous for its harsh winters and heavy snow falls.

Kani Mikaiil cave is located some 40 km east of the city of Saqiz, and about 2 km north of Karaftoo cave. Kani Mikaiil lies in a rock cliff at the end of a small side valley. The predominant geological formation of the region is plio-quaternary clay stone, sandy limestone and conglomerate. The entire landscape is composed of rolling hills that are interrupted by small plains. In our survey area, no apparent source of chert or other high-quality raw materials for manufacturing stone tools were found.

Kani Mikaiil is a relatively spacious cave (c. 712 sq. m) with two openings (FIGURE 1). In plan it is somewhat elliptical, about 41 m wide, 29 m deep, and with a maximum height of c. 10-5 m in the middle of the cave. An overhang separates the apron of the cave from its rear section, which decreases in height as one proceeds to the back of the cave, and which protects this section from the elements. The topography of the cave floor varies considerably: while the rear half of the cave has an almost level floor, the front part is steep.

We made three small test trenches (TT) in the cave: TT1 (1x3 m), near the smaller opening; TT2 (1.5x1.5 m), a few metres further under the overhang; and TT3 (1x6.5 m), just beside TT2, between TT1 and TT2. Sounding TT1 yielded exclusively natural deposits. However, to obtain geological samples, we excavated the sounding to the bed rock, 2 m deep. Soundings TT2 and TT3 yielded cultural remains dating to the Dalma phase of the Neolithic Zagros (c. 5th millennium BC), as well as to historical and Islamic periods (FIGURE 3). The distribution of the artefacts in the cave indicated to us that the ancient inhabitants of the cave naturally protected the more protected part of the cave, under the overhang. In both soundings the thickness of the cultural deposits varied from 50 to 80 cm.

To extract as much data as possible from the remains, all the excavated soil was sifted, using two different-sized screens. Pottery was the most common find, including the typical Dalma Im-

A small depression (30x30x20 cm) filled with stagnant water is located in the back of the cave. According to the locals, this depression periodically becomes a small spring during times of high precipitation; a small stream drains the water through the slope of the apron in the front. Because local shepherds use the cave to shelter their herds, its floor is covered with a thick layer of dung.

We subjected over 20 litres of sediments to flotation, which yielded only a handful of charred seeds. Analysis of the seeds revealed that they were domesticated barley (Hordeum vulgare), domesticated emmer (Triticum dicoccum) and bread/ hard wheat (Triticum aestivum/durum). The faunal remains are being analysed by Dr Marjan Mashkour of CNRS, Paris. The lithics were studied by Fereidoun Biglari, who also participated in the excavations.

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References


