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The Hirbemerdon Tepe Archaeological Project 2008: A Preliminary Report

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AYRI BASIM
In 2008, the archaeologist work at Hiramerdon Tpe returned following:

Town and the Hill Mound were occupied.

Period of occupation is the early second millennium BC, which both the Outer Town and the Hill Mound were occupied. During this period, the site is characterized by multiple phases, including archaeological features and postholes. In addition, evidence for subsistence economy that includes agricultural activities along the river.
the premises traced in the previous six years of work and have been based upon a broader understanding of the role the site had in the history of the upper Tigris river valley. During this archaeological campaign, the Hirbemerdon Tepe Archaeological Project was focused on defining and further investigating the following points:

1) To enlarge the exposure of the area of the architectural complex dating to the Middle Bronze Age in the High Mound (Area A). In particular, archaeological excavation was performed in the public/ceremonial sector located in the southern part of the complex.

2) To begin with the excavation of the Step Trench AB-AC that will cut through the whole High Mound and guarantee a better understanding of the chronological phases of occupation in this area of the site. In so doing, we decided to first test the area north of the architectural complex to better define the phases of occupation occurring before the construction of the architectural complex at the beginning of the second millennium B.C.

3) To continue with the regional survey of the area surrounding the site of Hirbemerdon Tepe.

*Excavation on the High Mound*

The investigation on the High Mound aimed at extending the eastern limit of the architectural complex of the Middle Bronze Age. In so doing, we excavated a 20x10 m. trench positioned along the main E-W section (Fig. 1). As noticed in the previous archaeological campaigns, the latest archaeological loci correspond to a series of badly disturbed architectural features belonging to the Medieval/Islamic period and the Iron Age phase. While the Medieval/Islamic is recognizable only in a few patches of walls and little material culture (e.g., Glazed Ware), the levels belonging to the Iron Age phase are more complex to identify and are comprised of an Early

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2 For a better understanding of these later phases, we are planning the excavation of a step trench starting from the 2009 season.
Of the geoarchaeological survey done on the High Mound in 2004 (Lauer et al. 2006), we
in investigating the large architectural structures that appeared in the images
With these premises in mind, our main scientific efforts have been dedicated
Ware (Lauer et al. 2008).
numerous other settlements of the region, the so-called Red Brown Wash
evident from the pottery assemblage that characterizes the site as well as
middle/middle millennium B.C. that is the Middle Bronze Age (Fig. 2. and 3). This is especially
phase of occupation of this small-sized site was the first half of the second
Hippodromion Level in 2003 (Lauer et al. 2009) it has been clear that the main
starting from the first work of archaeological reconnaissance at the site
The architectural complex of the Middle Bronze Age
presence of a large architectural complex.
However, the most important archaeological phase at Hippodromion Level
Phases region (Meloney et al. 2007: 49-44).
A broad post-Assyrian horizon visible at numerous other sites of the upper
jars with long painted bands framed by horizontal lines) that belong to
this later phase is represented by different varieties of painted ware (e.g.,
moreover, the material culture associated with
of this Iron Age horizon is mostly characterized by the presence of intrusive
the one found at Zyaret Tepe (Meloney et al. 2007: 48-49). while the latter part
has shown a few architectural features, pottery and in iron dagger similar to
Late Iron Age of Hellenistic (phase. The first period is marked by a series of
Lauer et al. 2007: 49-54).
and common ware of the Neo-Assyrian period: the Late Assyrian phase
by the presence of mostly local pottery (e.g., Grooved Ware and Holon Ware
architectural features that appear to be associated with working activities and
Iron Age/Neo-Assyrian period, a Late Assyrian and a post-Assyrian (E.)
The archaeological work has confirmed the premises and a series of radiocarbon dates have further demonstrated that this architectural complex chronologically ranges between ca. 2064 and 1416 B.C. (Laneri et al. 2006). The architectural complex can be possibly divided into three main sectors (Fig. 2): one central sector dedicated to more public/ceremonial activities; another area, separated from the central one by a long alley, that is marked by the presence of long narrow buildings built in an agglutinated manner and that show clear signs of working activities, such as mortars, pestles, grinding stones and hydraulic facilities found in situ; and finally, a third sector located in the southwest corner with an unclear function.

In particular, the archaeological work of last summer concentrated on investigating the southeastern part of the public/ceremonial sector (Fig. 3). This section of the architectural complex is composed of at least two large outdoor spaces, in one of which the archaeologists have discovered numerous unique objects whose function was ceremonial. Moreover, most of these objects, such as highly decorated ceramic vessels, human and animal clay figurines, and clay votive plaques (Fig. 4), were recovered nearby a stone basin located along the southwestern edge of the piazza.

Next to the piazza lays a monumental building that has only one entrance from the main alley and is based on an antechamber and a series of rooms. Among these rooms, a long room appears as the most important one. It is directly accessible from the antechamber through a door that is in axis with the main door serving the whole building and is marked by a stone altar and two perpendicular drains located behind it (Fig. 3). This room was monumental as is demonstrated by its size, the thickness of the outer walls and the large flagstones paving it. Moreover, a foundation deposit, consisting of a piglet inserted in a fine cup of the Red Brown Wash Ware assemblage, was found in the northeastern corner of this room and further emphasizes its importance. During the excavation of 2008, our main goal has been to bring to light the room lying directly east of the long-room, that is room 52. This room has its entrance from a vestibule located next to the antechamber and was sealed
in which the ubiquitous presence of the red brown wash appears
complementary Middle Bronze Age sites of the upper Tigris river valley
within the architectural complex have clear parallels with 1 particular
In terms of pottery assemblage, most of the pottery categories found
seized stones and fragmented storage jars.
and broken vessels were found, whereas the other one was filled with mid-
the architectural complex. Moreover, in one of these rooms numerous whose
should have been of primary importance in cleaning the urban landscape of
were accessible from the piazza and the monumental hall of the whole facade
between the floors of the uppermost building and the piazza's floor, were.
The rooms at a lower level, four meters of difference in elevations are recognizable
assembly manner in order to connect this higher building to the piazza located
next to a mud-brick structure and a series of small rooms constructed in a
an extraordinary relating construction consisting of a wide stone wall built
To further emphasize its monumental presence, the western side was built on top of
almost total lack of working tools suggested a public purpose for this sector.
location and monumental hall in plan and an archieteric together with an
location and the distinctive features of this building. However, its central
Due to the poor state of preservation, it is very difficult to reconstruct both
consists of a series of outdoor and indoor rooms and wide external walls.
because of later parts and of the slope, this building was poorly preserved and
hence to connect the previously described building to the uppermost one.
together the whole sector. Thus, another outdoor space was created in ancient
Interchange system, and, as a consequence, outdoor spaces were used to channel
Due to a steep slope in the virgin soil, the public area was built using a
main piazza.

Ceremonial objects were probably disposed of and purposely broken in the
of a cleaning of these ceremonial spaces prior to their abandonment. The
broken objects were found in this room confirming our preliminary hypotheses
a squared bench of stone foundation and mud-brick superstructure. A few
by the collapse of the roof. Along the western wall the archeologists found
as a marker for the first half of the second millennium B.C. whereas the painted ware (that we named Pseudo-Khabur Ware) forms a clear link with northeastern Syria (Laneri et al. 2008).

In terms of paleobotanical analysis carried out at the site by Matte Held, the assemblage of crops is quite typical for the Middle Bronze Age in this region as well as at other northern Syrian and southeastern Anatolian sites (Laneri et al. 2008). However, the presence of grapes and other remains of Vitis Vinifera within some of the rooms of the 'architectural complex' appears of great importance for a better understanding of the socioeconomic landscape of the region during the Middle Bronze Age.

For the faunal remains, the analysis has been initiated by Remi Berthon who has included in his study both the Middle and Late Bronze Age levels (Laneri et al. 2008). The first data show a subsistence based on domestic animals. According to Berthon, cattle were of great importance in the food supply at the site during these archaeological phases. The high number of pigs and caprines bones also suggests that both had an important role in the economy of the site. While pigs were a good meat supplier, sheep and goat could have been used also for secondary products as indicated by the relative high number of old individuals. Hunting was also an important factor at Hirbmerdon Tepe during the second millennium B.C. as has been demonstrated by the presence of antler and deer bones.

*The Step Trench AB-AC*

Another important step towards a better understanding of the chronological sequence at Hirbmerdon Tepe is the excavation of a long step trench of about 3 meters wide and 50 meters long that will further investigate the northern sector of the High Mound (Fig. 1). As a preliminary step in this direction, last summer we decided to investigate the area north of the architectural complex (the AB section). In so doing, we have been able to define a few disturbed floors directly underneath the complex's architecture. In particular, Locus 12

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unsuitable for agriculture. Because of its agricultural potential, the terraces
were abandoned by the end of the Early Byzantine period (6th century BC).

The survey region can be roughly divided into two geomorphological
units: one consisting of alluvial terraces, the other of more elevated
terraces of pastoral nomadic groups that have settled in the region over the last
millennium or more.

Our goals are to document all phases of human occupation in the
region and to identify various forms of human land use and modification.

The Hibernmerton Ipe Regional Survey (HIBRS) conducted its second season in
June 2008. Our survey region is a 48 km² area on the right bank of the Tigris,
which has been divided into two main zones: the lowland areas of the
Hibernmerton plain and the highland areas of the mountains.

In addition to these, there are several other significant sites located
between the lake and the Arzawan region, including the site of the
ancient city of Gurgam. This city was occupied from the late 3rd millennium
B.C. onward, and its remains are visible in the landscape today.

During the survey, a number of important artifacts were found, including
pottery, stone tools, and metal objects. These artifacts provide valuable
insights into the daily life of the people who lived in the region during this
period.

The survey also revealed evidence of ancient canals and irrigation
systems, which were used to irrigate the fields and support agricultural
production. The presence of these systems indicates that the region was
important for agriculture and trade during ancient times.

Finally, the survey team conducted a number of excavations in various
locations, which helped to further our understanding of the history and
culture of the region. These excavations resulted in the discovery of a
number of important sites, including a large temple complex and a
religious center.

Overall, the survey was successful in its goals, and the results will
provide valuable information for future research and for the understanding
of the history and culture of the region.
are where most sedentary settlement is found. The eastern uplands have very limited pockets of cultivatable soil and have been used primarily as pasture.

In the 2007 season, most of our efforts were in the western cultivated terraces. The largest sites (tepes) were defined by the edges of mounding and collected in sub-areas. These sites were only a small portion of the total archaeological landscape, however. Elsewhere, fieldwalkers made transects at 25 m. intervals across harvested agricultural fields. Artifacts were marked with color coded flags (red for lithics, blue for ceramics) and collected. The positions of the flags were then recorded via a GPS-enabled mobile computer. Sites were defined by interpolating the density of surface scatters in a GIS framework. The eastern uplands, which were subjected to a brief reconnaissance that was guided by high resolution Ikonos satellite imagery in 2007, were the primary focus of survey in the 2008 season. A range of sedentary sites, campsites, and various landscape features were identified (discussed below). In total, we recovered 92 places that were termed “sites,” although they vary from multi-hectare mounded tepes to light scatters of Paleolithic tools. The general classes of site types are described below.

Tepes. The HMTS region has three mounded sites. Hırbemerdon Tepe (Site 1) and Kavuşak Tepe (Site 4) were already identified by Algaze during his survey of the Batman-Bismil region (Algaze 1989, Algaze et al. 1991). Other mounded sites exist to the south (Güzel Köy, Site 34) and southwest (Ahmetli Tepe, beyond the survey limits). Mounded sites in the Upper Tigris region are small compared to those found in the broad alluvial plains in adjacent areas of northern Mesopotamia, mostly under 5 hectares. All of the mounded sites in the HMTS region had MBA occupation.

Unmounded Ceramic Scatters. The cultivated fields in the HMTS region are characterized by an almost continuous scatter of small artifacts at a low density, a phenomenon known throughout the Near East and Mediterranean (Wilkinson 1982, Bintliff and Snodgrass 1988). Transect walking in the area immediately around Hırbemerdon Tepe revealed elevated concentrations of artifacts that represent sites (Fig. 6). Two of them (Sites 19 and 22) were

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surface survey alone. They may mark the burials of pastoral nomads, or they might represent some other form of symbolic or ritual activity. Because they have little associated material culture, they are difficult to date without excavation.

_Campsites_. The Upper Tigris region as been the location of winter pasture grounds (kişlak) since at least the 15th century, when tribes of the Akkoyunlu confederacy controlled the area (Woods 1999). In more recent times, transhumant Kurdish tribes have migrated between the Taurus mountains in the summer and descended into the Tigris valley and foothills during the winter months (Cribb 1991:196-207, based on the work of Beşikçi, Hütteroth 1959). In the 2008 field season, several campsites in the eastern uplands were visited and planned (reported in detail in Ur and Hammer 2009). Site 18 is a 20th century camp consisting of stone built rectangular animal enclosures and cleared spaces where tents were erected (Fig. 9). Further down the wadi, an older and more disturbed campsite (Site 26) is probably far older, but had little surface artifacts in association. The archaeology of pastoral nomads has been understudied in the Near East, and the eastern uplands offer important new empirical evidence for them.

_Cisterns and Other Water Catchment Features_. Near the campsites in the eastern uplands were found several features for capturing and storing runoff rainfall. These features would have been critical for providing drinking water for people and animals in this otherwise dry zone. Southeast of the Site 18 campsite, a cistern (sarnıc) was cut into the side of a wadi (Site 24). It was fed by two small channels carved into a large area of exposed bedrock. Rainfall would have flowed across the bedrock, into the channels, and then into the tank of the cistern, which could have held 9 m³ of water. Another method of water capture was found at Site 28, where a circular stone structure was built in the base of a wadi. Water flowing down the wadi would have been redirected and held in the structure. This feature was probably intended for watering animals. These water catchment features demonstrate the modifications and adaptations of human groups to the otherwise inhospitable
During both ancient and more recent times, a relationship between pastoralist and agricultural communities allowed us to further investigate a fundamental topic in archaeological studies: the transition from pastoralism and hunting to farming. The Hbemerdon Tepe Regional Survey will shed light on the transition between cultural landscapes and upland settlements, providing a more coherent chronology for the occupation of the High Mountain. Although it is difficult to determine the political landscape of the Upper Tigisi region during the Middle Bronze Age, this research will help further demonstrate the importance of the site in the surrounding region. The archaeological work conducted in 2008 at Hbemerdon Tepe and its eastern uplands and show that the landscapes of pastoral nomads can be

Conclusions
(Southeastern Turkey) as Documented by Archaeological Data. Quaternary International 129: 75-86.


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Fig. 2: The architectural complex of the Middle Bronze Age

Fig. 3: View of the ceremonial/public sector of the Middle Bronze Age architectural complex
complex architectural in the plaza of the volcine bridge bound reconstructed clay

FIG. 4: A Partially
Fig. 6: Surface artifact concentrations in the area around Hirbemerdon Tepe

Fig. 7: Lower Paleolithic hand axes from the Tigris terrace NE of Hirbemerdon Tepe
FIG. 9: The pastoral nomadic campsite at Site 18.

FIG. 10: The cairn field at Site 16.