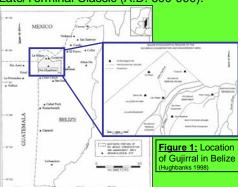


Introduction:

- Zooarchaeology is the identification and analysis of faunal, or animal, remains from archaeological sites.
- Analyzing animal bones, shells, and other invertebrate remains archaeologists are able to look at diet, ritual, production, trade, and many other important aspects of cultures.

Site of Guijarral (RB-18):

Located in Northwestern Belize (Figure 1). A rural Maya site that dates to the Late/Terminal Classic (A.D. 600-900).



Project Research goals:

- Location and recovery of faunal and floral remains from middens to complement the collections from 2006 (Hageman, et al 2006).
- As project zooarchaeologist, my goal was to find animal remains.
- ${\mathbb Z}$ Use of shovel test pitting around the site center to find concentrations of both botanical and animal bones from the area.
- Correlating faunal remains with other archaeological materials (ceramics, lithics) would help with the understanding of diet, cultural utilization, and disposal of animal remains at Guijarral.

My Research Goals:

- How does preservation and recovery methods affect the quantity and type of remains recovered?
- On a larger scale, How does zooarchaeological sampling methods reflect the utilization of animals by the ancient Maya (ongoing research by Dr. Kitty Emery)

Were the prehistoric Maya vegetarians?

Excavation of faunal remains, or the lack thereof, at the site of Guijarral, Belize.

By: Erol Kavountzis, Graduate Student, Dept. of Anthropology

Methods and Materials:

Northeastern Illinois University (NEIU)

- 3 graduate students.

Figure 2: Location of Shovel Test Pits around Guijarral Site center.

Field Sampling Technique:

- A grid of shovel test pits (STP) around the Guijarral Site Center (Figure 2).
 - Shovel test pits is a sampling technique used by archaeologists to locate areas of artifact concentrations.
- > These samples were about 15 m from the base of the structures in 5 m intervals in all four cardinal directions.
- Soil samples (4 liters) for both zooarchaeological, and ethnobotanical analysis were taken from each STP (Figure 3).

Laboratory research:

187 soil samples were collected

Each sample was wet screened through nested $\frac{1}{4}$, $\frac{1}{8}$, and $\frac{1}{16}$ -inch screens using methods developed by Dr. Kitty Emery and Erin Thornton (Figure 4).

collect both large and small animal remains.

Screened samples were dried and scanned for faunal remains by myself and the students.



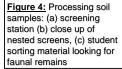




Figure 3: Shovel test

pits for collecting soil

samples. (in photo: S. DeLash

Results:

None of the samples contained faunal remains.

But, botanical remains were collected from many of the shovel test pits.

And, some soil samples contained ceramics fragments. We were able to locate areas of ceramic concentrations that suggest these were original middens or areas of Deposition (Figure 5). Figure 5: Concentration of

ceramics from shovel test pits





Conclusions:

- There was no faunal material found in any of the 187 shovel test pits.
- We assume collection methods are not the reason for the lack of faunal materials because soil samples were water-screened through multiple screen sizes.
- We assume, preservation conditions are not the reason because botanical remains are being preserved.
- contexts in NW Belize (Hageman, et al 2007).
- / With no faunal remains, it is still unknown about what types and amounts of animals were consumed at Guijarral.

Reasons for no faunal Remains:

- remains were not discarded in traditional middens.
- Animals remains could have been used for tools or crushed for medicines.
- Recent ethnographic research found that present-day Maya cache bones ritual offerings, perhaps animal remains were ritually disposed or kept at home (Brown 2005).
- There could be other locations for ancient garbage dumps.
- TDo you have any other ideas?

Future Studies:

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 \]
 Utilizing wet-screening through nested ¹/₄-, 1/8-, and 1/16-inch screens at other sites throughout the Maya region.
- At Guijarral, in particular, it would be interesting to look for possible middens further from the site center.

- The Tinker Travel Grant provided by the Center for Latin American Studies at th