

Contents

List of Figuresv
List of Mapsvii
List of Tablesix
Abstractxi
Acknowledgmentsxiii
Notes on Contributorsxv
Study Focus
Endnotes
Defenences

List of Figures

1.	(a) Feature 21 Middle Woodland dog burial and associated artifacts at the Loy site.(b) Illinois State Museum modern comparative-collection examples of gray wolf, coyote,	
	and wire-haired terrier left mandibles	
2.	Modified Canis sp. left-ulna necklace element found in a limestone-slab crypt	
	Houston-Shryock Mound F°455 shown alongside a modern comparative-collection	
•	coyote ulna	
3.	Dickison Mound P°478 Hopewellian tomb burials and associated artifacts in situ. Bear-maxilla artifacts are located at the right pelvis of both burials in the photo.	
	Maxilla (a) was taken from an adult bear; maxillae (b-c) were taken from	
	a yearling bear cub	
4.	Gibson Mound 5 Burial 2 with a cut bear-maxilla artifact in situ at the left hip9	
5.	Supposed cut "wolf jaw" found in the late 1920s with Burial 3 in Brangenberg	
•	Mound 3, Calhoun County, Illinois. Upon restoration, it was clearly identifiable	
	as the left premaxilla-maxilla of a black bear	
6.	(a) Cut-and-drilled bear maxilla found with Burial 2 in Wilson Mound 7;	
	(b) cut-and-drilled cougar mandible found with Burial 9 in Wilson Mound 7;	
	(c) preserved portions of modified bear maxillae recovered in 1906 from	
	Albany Mound 65, Whiteside County, Illinois	
7.	Four pairs of cut, drilled, and painted bear maxillae found in Wilson Mound 6	
	with Burial 5 (a), Burial 6 (b), and Burial 9 (c-d). Note the well-preserved red	
	and green paint on the left and right halves of maxilla (d)	
8.	The only two pairs of modified bear half-mandibles known to have been recovered	
	from Illinois Hopewellian mortuary contexts: (a) was found over 80 years ago	
	in a mound in Fulton County, Illinois and is probably from one of the floodplain	
	Weaver site mounds—likely F°230 and (b) was recovered from Frederick Mound 3, Schuyler County, Illinois	
9.	Elizabeth Mound 7 Burial 17 showing in situ placement and artifact photo of a cut,	
٥.	ground, and drilled canid (cf. coyote) mandible and associated shell beads	
10.	Paired halves of a cut-and-ground canid maxilla found with Burial 10	
	in Knight Mound 2 (a) and an apparently unmodified canid half-mandible	
	(b) found with Knight Mound 4 Burial 2423	
11.	Cut-and-drilled canid (cf. coyote) mandible from John Swartz Mound 4,	
	Pike County, Illinois	
12.	Frederick Mound 4 cut-and-ground canid (cf. coyote) mandible	
13.	Gibson Mound 1 Burial 5 showing in situ placement and profile artifact photos of cut,	
	ground, and drilled wolf-mandible halves and associated artifacts	
14.	Joe Gay Mound 4 Burial 40 showing in situ placement and profile artifact photo of cut, ground, and drilled wolf-maxilla artifact	
15.	(a) Cut/drilled probable-coyote maxilla fragment from the Snyders site, University	
15.	of Michigan Museum of Anthropology 1947 excavations, curated at the Illinois	
	State Museum. Shown with ISM comparative-collection coyote maxilla #686535;	
	(b) cut canid (cf. coyote) maxilla fragment recovered by Struever's 1960 Snyders	
	site excavations	
16.	Cut-and-drilled canid (cf. coyote) mandible fragment recovered by McGregor	
	1950 University of Illinois excavations at the Pool site, Pike County, Illinois	
17.	Modified wolf-mandible artifact fragment recovered from excavations	
	at the Apple Creek habitation site 33	

18.	Cut-and-ground gray-wolf mandible fragment recovered by John McGregor's 1956 University of Illinois excavations at the Busch Estate site, Pike County, Illinois,			
	shown with ISM comparative-collection modern wolf mandible			
19.	Alligator teeth recovered from the prehistorically burned Elizabeth Mounds 6			
	and 7 central log tomb floors: (a) tooth from the Mound 6 tomb floor; (b–c) teeth			
	from the Mound 7 tomb floor			
20.	Halves of two different cut-and-ground cougar mandibles recovered			
	by 1931 University of Chicago salvage excavations in Ogden-Fettie Mound F°191			
	("Mitchell Mound"), Fulton County, Illinois			
21.	Two sections of a cut, undrilled cougar maxilla found with Burial 2			
	in the central log tomb of Lawrence Gay Mound 4, Pike County, Illinois			
22 .	Two sections of a cut, undrilled cougar mandible found with Burial 1			
	in the central log tomb of Lawrence Gay Mound 5, Pike County, Illinois41			
23 .	Cut-and-ground animal maxillae and mandibles found in 1928 with Burial 5			
	in the central log tomb of Neteler Mound 6, Mason County, Illinois: (a) cougar maxilla;			
	(b) black bear maxilla fragments; (c) wolverine mandible (shown with wolverine			
	mandible from the ISM reference collection); (d) modified wolverine mandible sections			
	(interior view of right mandible and exterior view of left mandible) now missing			
	from the Neteler Mound 6 collections and excluded from the present study42			
24.	Cougar cut-mandible halves found with adult male Burial 20			
05	in Gibson Mound 1, Calhoun County, Illinois			
25 .	Fragmentary cut-and-ground cougar maxilla found with adult male Burial 12			
00	in the central log tomb of Carter Mound 1, Greene County, Illinois			
26.	Bobcat mandible fragment from Struever's 1960 Snyders site excavations,			
0.5	Calhoun County, Illinois, shown with ISM comparative collection bobcat mandible45			
27 .	Left half of black-bear mandible, with all the teeth extracted, recovered from the floor			
00	of a large Middle Woodland ash pit at the Crane site in Greene County, Illinois			
28.	Hopewellian bear-effigy platform pipes from (a) the Pool habitation site			
	in Pike County, Illinois; (b) the Cook Farm mounds near Davenport, Iowa; (c) the Wilson mounds in White County, Illinois; and (d–f) the Tremper mound			
	in Scioto County, Ohio			
29.	Clay figurine head (a) and full-figure carved-stone effigy (b) of shaman-like			
20.	Hopewellian bear-costumed figures			
30.	Canid-effigy platform pipes (probable wolf and covote effigies) from the Weaver			
٠٠.	mounds in Illinois (a), the Mound City cache in Ohio (b), and the Tremper pipe			
	cache in Ohio (c–d)			
31.	Distinctive face markings of bobcats (a) vs. cougars (b)			
32.	Bobcat-effigy platform pipes from the Mound City (a-c) and Tremper pipe caches			
	in Ohio (d-e)			
33.	Cougar-effigy platform pipes from the Bunsymer site in Illinois (a) and the Tremper			
	pipe cache in Ohio (b-c)			
34.	Bobcat costumed and face-marked human effigies from the Mound City pipe cache			
	in Ohio (a) and D. Morse photos of figurine from the Bollinger site cache in Illinois (b) 56			
35.	Decorated, cut-and-drilled bobcat-mandible artifacts recovered with Seip Mound			
	Hopewellian burials in Ross County, Ohio			

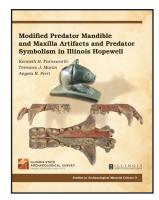
List of Maps

1.	Distribution of 15 bear-maxilla and -mandible artifacts recovered at eight Illinois
	Hopewellian mound groups
2.	Distribution of 10 canid-maxilla (probably coyote) and -mandible artifacts recovered
	at six Illinois Hopewellian mound groups and two Middle Woodland habitation sites20
3.	Distribution of four wolf-maxilla and -mandible artifacts recovered at two Illinois
	Hopewellian mound groups and two Middle Woodland habitation sites27
4.	Distribution of eight cougar-maxilla and -mandible artifacts recovered
	at seven Illinois Hopewellian mound groups

List of Tables

1.	Modified Black Bear (Ursus americanus) Maxilla and Mandible Specimens	
	Recovered from Illinois Hopewell Burial Mounds	14–15
2.	Modified Probable Coyote (Canis cf. latrans) Maxilla and Mandible Specimens	
	Recovered from Illinois Hopewell Burial Mounds	21
3.	Modified wolf (Canis lupus) Maxilla and Mandible Specimens Recovered	
	from Illinois Hopewell Burial Mounds	28
4.	Modified Canid (Canis spp.) Maxilla and Mandible Specimens Recovered	
	from Middle Woodland Habitation Sites in Illinois	31
5.	Modified Cougar (Puma concolor) Maxilla and Mandible Specimens Recovered	
	from Illinois Hopewell Burial Mounds	38

OPEN ACCESS: MCJA Book Reviews Volume 41, 2016



Modified Predator Mandible and Maxilla Artifacts and Predator Symbolism in Illinois Hopewell

Kenneth B. Farnsworth, Terrance J. Martin, and Angela R. Perri. 2015. Illinois State Archaeological Survey. Studies in Archaeological Material Culture 3, xv+61 pp., 35 figures, 4 maps, 5 tables, references. \$20.00 (Paper)

Reviewed by T. Cregg Madrigal, Trenton, New Jersey.

This slim but well-illustrated monograph is tightly focused on a small but intriguing dataset from the Middle Woodland period of Illinois: large carnivore (dog, coyote, wolf, cougar, bobcat, and bear) mandibles and maxillae that were intentionally modified by cutting, grinding, drilling, or painting. Kenneth B. Farnsworth, Terrance J. Martin, and Angela R. Perri physically examined the specimens when possible and also looked at published reports, unpublished notes, and photographs. While they exclude loose teeth from their review, they do describe and illustrate the sole canid artifact found in a mortuary context made from a postcranial bone, a dog or coyote ulna used as a pendant from the Shyrock site. The authors assume the reader has a basic familiarity with the Illinois Hopewell—the sites at which these artifacts were found are not summarized in any detail.

Farnsworth, Martin, and Perri are cautious and precise with their identifications, show their work, and do not go beyond what the bones warrant. In addition, they correct several earlier misidentifications, primarily bear bones that were mistakenly reported as canid bones. Three poorly preserved teeth from the Elizabeth Site were originally identified as large carnivores, but upon reexamination were determined to be alligator. While most of these misidentifications were made a long time ago by people not trained in faunal analysis, the reanalysis highlights the importance of having professional zooarchaeologists (with access to comprehensive comparative collections) examine all bones from archaeological sites.

The total number of maxilla and mandible artifacts in their sample is relatively small, consisting of 15 bear, 12 canid (most probably from coyote), two wolf, eight cougar, and one bobcat. Predator maxillae found in human graves are usually located near the waist, while mandibles are usually found near the wrist.

Comparison and interpretation are brief but effective. Burial-associated large predator maxilla and mandible artifacts are rare—of the more than 1,500 Hopewell burials excavated in Illinois, only 30 contained these types of artifacts. Interestingly, there is a similar number of Illinois Hopewell burials that contain modified human mandible and maxilla artifacts (only one Illinois burial contains both a human and a carnivore artifact). The human burials that contained predator mandible and maxilla artifacts are almost always male skeletons. One-third of burials also contain beads, and one-third contain flintkapping tools, while groups of projectile points are only found with 13 percent of the burials.

Farnsworth, Martin and Perri do not go into depth regarding the possible meanings of these artifacts, but they acknowledge multiple possibilities, both functional and symbolic. The only interpretation they are actively skeptical of is that the artifacts represent hunting trophies. The fact that "bear and cougar maxillae artifacts were dramatically cut down,

Book Review

pegged back together, often painted, and apparently stored out of sight (perhaps in pouches), sometimes with other exotic artifacts" (p. 55), may support arguments that these were used by shamans, while the "bear- and cougar-mandible artifacts...worn at the wrists, bracelet style" (p. 55) could be interpreted as clan symbols, but neither fact excludes alternative interpretations. The authors quickly survey animal effigy platform pipes and figurines from Illinois and Ohio and point out that these mostly depict predators in what are considered non-aggressive poses, arguably providing additional support for shamanistic, animal spirit, and clan totem interpretations.

Despite these interpretive efforts, this book is intended to be primarily a descriptive report, and at this it succeeds brilliantly. Farnsworth, Martin, and Perri have compiled a thorough review of their subject, presented quality data on ritual artifacts, and corrected earlier errors in identification. Anyone who wants to try to decipher animal symbolism during the Middle Woodland will need to consult this book.