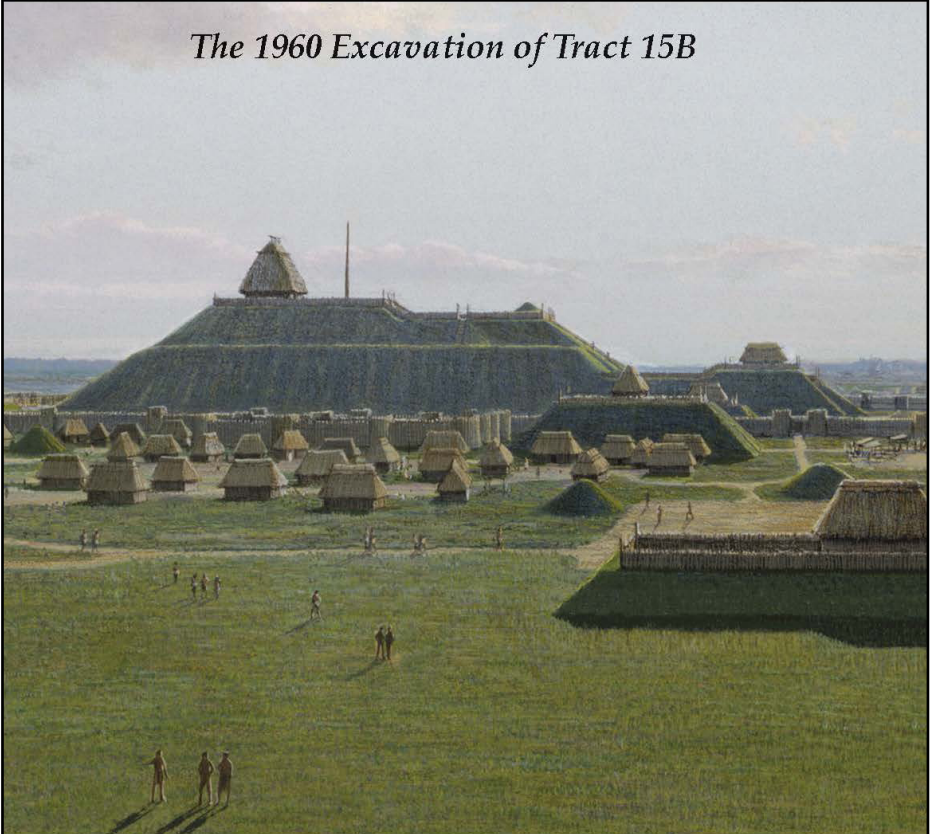


# THE ARCHAEOLOGY OF DOWNTOWN CAHOKIA II

*The 1960 Excavation of Tract 15B*



**Timothy R. Pauketat**



# CONTENTS

LIST OF TABLES .....	xi
LIST OF FIGURES .....	xiii
ACKNOWLEDGMENTS .....	xvii
FOREWORD .....	xix
AMERICAN BOTTOM CALIBRATED CHRONOLOGY .....	xx
CHAPTER 1. INTRODUCTION: SALVAGE ARCHAEOLOGY IN 1960, <i>TIMOTHY R. PAUKETAT</i> .....	1
Environment .....	3
Background to the Tract 15B Excavation .....	5
Warren Wittry .....	7
Testing Tract 15B, April 1960 .....	8
Trenching, Stripping, and Excavating Tract 15B, August–October 1960 .....	10
CHAPTER 2. TRACT 15B’S RELEVANCE TODAY, <i>TIMOTHY R. PAUKETAT</i> .....	27
Expectations .....	27
Community-Scale Inferences .....	28
Conclusion .....	29
CHAPTER 3. CHRONOLOGY AND METHODS OF ANALYSIS, <i>SUSAN M. ALT, TIMOTHY R. PAUKETAT, AND</i> <i>STEVEN R. KUEHN</i> .....	31
Phases and Radiocarbon Dates .....	32
Tract 15B Phases .....	34
Feature Analysis .....	35
Ceramic Analysis .....	37
Lithic Analysis .....	38
Plant Remains .....	40
Faunal Analysis .....	40
CHAPTER 4. FEATURES, <i>TIMOTHY R. PAUKETAT</i> .....	43
Terminal Late Woodland Features .....	45
Small Rectilinear Buildings .....	47
Building Size and Household Identity .....	60
Pits, Post Pits, and Other Features .....	62
House Orientations and Courtyards .....	70
The “Blue Fill” .....	73
Early Mississippian Features (1050–ca. 1200 C.E.) .....	76
Lohmann Phase Circular Buildings and an Unnumbered Platform Mound .....	76
Stirling Phase Compound A .....	88
Late Stirling Phase Compounds B and C .....	91
Other Late Stirling or Early Moorehead Phase Rectilinear Buildings .....	96
Marker Posts .....	100
Possible Palisade Features .....	101
Late Mississippian Residential Reoccupation (ca. 1225–1350 C.E.) .....	109
Moorehead/Sand Prairie Phase Buildings .....	114
Other Late Moorehead/Sand Prairie Phase Features .....	119

CHAPTER 5. HUMAN SKELETAL REMAINS, <i>AIMÉE CARBAUGH, EVE HARGRAVE, DAWN COBB, AND KRISTIN HEDMAN</i> .....	129
Material and Methods.....	129
AMS Radiocarbon Dates.....	130
Results .....	130
Terminal Late Woodland / Early Mississippian (Lohmann / Stirling Phase).....	131
Late Mississippian (Moorehead / Sand Prairie Phase) .....	143
Undetermined Cultural Affiliation.....	158
Stable Isotope Analysis .....	158
Carbon Isotopes.....	159
Nitrogen.....	159
Results .....	159
Discussion.....	161
Preservation .....	161
Demography .....	161
Dental Analysis .....	163
Skeletal Pathology.....	167
Miscellaneous .....	172
Taphonomy .....	172
Non-Metric Traits .....	177
Mortuary Practices.....	177
CHAPTER 6. POTTERY AND FIRED CLAY ARTIFACTS, <i>TIMOTHY R. PAUKETAT</i> .....	183
Terminal Late Woodland Pottery .....	186
Jars.....	186
Bowls and Beakers .....	191
Bottles and Seed Jars.....	194
Pinchpot and Stumpware .....	195
Nonvessel Pottery and Fired-Clay Artifacts .....	197
Early Mississippian Pottery .....	197
Jars.....	199
Bowls and Other Vessel Forms.....	199
Stirling and Early Moorehead Phase Pottery .....	201
Late Mississippian Pottery .....	204
Jars.....	204
Bowls, Plates, Pans, and Beakers .....	210
Other Vessels.....	216
Other and Unaffiliated Pottery Artifacts.....	219
Discussion.....	224
CHAPTER 7. LITHIC ARTIFACTS, <i>TIMOTHY R. PAUKETAT</i> .....	237
Terminal Late Woodland Lithic Artifacts .....	239
Early Mississippian Lithic Artifacts .....	243
Late Mississippian Lithic Artifacts.....	245
Pigment Processing and More.....	249
Other Tools, Gaming Stones, and Ornaments.....	249
Other Lithic Artifacts.....	258
Discussion.....	262
Limestone and the Terminal Late Woodland Occupation .....	263
Public Uses and Ceremony.....	273
Late Mississippian Pigment Processing and Production of Ceremony Items .....	273

CONTENTS

CHAPTER 8. FAUNAL REMAINS, STEVEN R. KUEHN .....	275
Terminal Late Woodland Fauna .....	275
Terminal Late Woodland Faunal Exploitation .....	280
Early Mississippian Fauna .....	281
Early Mississippian Faunal Exploitation .....	282
Stirling/Moorehead Fauna .....	282
Stirling/Moorehead Faunal Exploitation .....	283
Late Mississippian Fauna .....	283
Late Mississippian Faunal Exploitation .....	285
Unknown/Mixed Component Fauna .....	286
Discussion: Tract 15B Faunal Exploitation and Subsistence .....	287
Mammals .....	287
Fish .....	288
Birds .....	288
Reptiles, Amphibians, and Mollusks .....	289
Habitat and Resource Exploitation .....	289
White-Tailed Deer Exploitation .....	290
Fish Utilization .....	294
Avifauna Utilization .....	295
Intraregional Comparison .....	295
Summary .....	298
CHAPTER 9. TRACT 15B RETROSPECTIVE, TIMOTHY R. PAUKETAT .....	299
New Evidence of Terminal Late Woodland Complexity .....	299
A New Public Spatiality .....	301
Late Mississippian Domesticity and a New Ceremonialism .....	302
Conclusion .....	303

APPENDICES

To facilitate the production process, long appendices tables are available online in their original Excel or PDF format and are not included in the paper copy of this report. Copy the URLs below and paste them into a web browser to download the data. Excel and Acrobat Reader or similar programs that can open .xls and pdf files are required.

<http://isas.illinois.edu/publications/data/sia/8/>

- A. Fired clay, daub, and mud-dauber nests  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_A.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_A.xls)
- B. Body sherds  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_B.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_B.xls)
- C. Other body sherds  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_C.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_C.xls)
- D. Decorated or diagnostic body sherds  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_D.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_D.xls)
- E. Small pottery rim fragments (not used to construct a MNV)  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_E.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_E.xls)
- F. Rim sherds from test trenches (not used to construct a MNV)  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_F.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_F.xls)
- G. Terminal Late Woodland vessels  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_G.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_G.xls)
- H. Early Mississippian vessels  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_H.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_H.xls)
- I. Late Mississippian vessels  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_I.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_I.xls)
- J. Temporally unaffiliated vessels  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_J.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_J.xls)

- K. Vessel profiles  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_K.pdf](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_K.pdf)
- L. Rock detritus in features by phase  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_L.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_L.xls)
- M. Chert debitage and flake tools in features by phase  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_M.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_M.xls)
- N. Points and drill bits  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_N.pdf](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_N.pdf)
- O. Faunal inventory  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_O.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_O.xls)
- P. Inventory of isolate or unattributed elements  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_P.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_P.xls)
- Q. Burial plan maps: Q1–Q13  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_Q.pdf](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_Q.pdf)
  - Q1. Burial 2 plan map
  - Q2. Burial 3 plan map
  - Q3. Burial 4 plan map
  - Q4. Burial 5 plan map
  - Q5. Burial 6 plan map
  - Q6. Burial 7 plan map
  - Q7. Burial 8 plan map
  - Q8. Burial 9 plan map
  - Q9. Burial 10 plan map
  - Q10. Burial 11 plan map
  - Q11. Burial 12 plan map
  - Q12. Burial 13 plan map
  - Q13. Site map with burial and isolate locations
- R. Inventory of human remains recovered from burials  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_R.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_R.xls)
- S. Standard measurements
  - S1. Standard measurements, axial skeleton  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_S1.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_S1.xls)
  - S2. Standard measurements, appendicular skeleton  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_S2.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_S2.xls)
- T. Pathology, trauma, taphonomy, and non-metrics
  - T1. Terminal Late Woodland / Early Mississippian skeletal pathology, trauma, taphonomy, and non-metrics  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_T1.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_T1.xls)
  - T2. Late Mississippian skeletal pathology trauma, taphonomy, and non-metrics  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_T2.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_T2.xls)
  - T3. Degree of degenerative pathological changes  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_T3.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_T3.xls)
- U. Dental inventory, permanent  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_U.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_U.xls)
- V. Dental measurements  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_V.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_V.xls)
- W. Dental attrition  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_W.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_W.xls)
- X. Dental caries, calculus, and abscesses
  - X1. Terminal Late Woodland / Early Mississippian dental pathology observations: caries, calculus, and abscesses  
[http://isais.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_X1.xls](http://isais.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_X1.xls)

CONTENTS

X2. Late Mississippian dental pathology observations: caries, calculus, and abscesses  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_X2.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_X2.xls)

Y. Enamel hypoplasias  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_Y.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_Y.xls)

Z. Dental non-metric observations  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_Z.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_Z.xls)

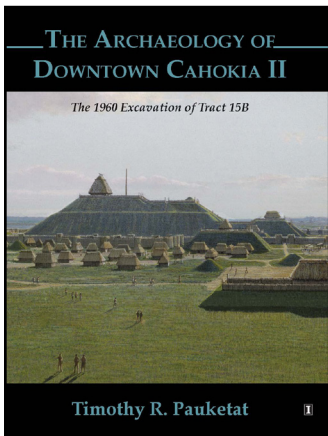
AA. Subadult analysis

AA1. Standard measurements, subadults  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_AA1.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_AA1.xls)

AA2. Dental inventory, deciduous  
[http://isas.illinois.edu/publications/data/sia/8/Tract\\_15B\\_Appendix\\_AA2.xls](http://isas.illinois.edu/publications/data/sia/8/Tract_15B_Appendix_AA2.xls)

BIBLIOGRAPHY.....305

INDEX .....323



## The Archaeology of Downtown Cahokia Volume II: The 1960 Excavation of Tract 15B

Edited by Timothy R. Pauketat. 2013. Illinois State Archaeological Survey, xx+332pp., 184 figures, 95 tables, references, 27 appendices, index. \$35.00 (Paperback).

*Reviewed by Dr. Adam King, SC Institute of Archaeology and Anthropology, University of South Carolina, Columbia, South Carolina.*

*The Archaeology of Downtown Cahokia Volume II: The 1960 Excavation of Tract 15B* by Timothy Pauketat is an excellent

example of the great research potential of old collections and old excavations. The volume does a very nice job of placing Warren Wittry's work in its historical context and inserting the results in a current interpretive framework. Everyone may not agree with the interpretations proffered. However, thanks to the ample space devoted to data tables, color photographs, and detailed archaeological description, the basis for those interpretations is clear.

Wittry's excavations were done in advance of the proposed building of parts of FAI-55/270 on and around the Cahokia site. As was often the case with salvage archaeology and the early days of compliance archaeology, the work had to be done quickly and cheaply, and the project relied heavily on labor not trained in archaeological excavation. Because the excavations took place in 1960, neither screening nor fine-scale recovery techniques like flotation were employed. Understanding the challenges Wittry faced, and the limitations introduced by 1960 methods, makes the interpretive mileage Pauketat and colleagues get from Tract 15B all the more impressive.

Since Tract 15B is located in what is known as Cahokia's West Plaza, an area flanking Monks Mound on the west, the excavations there have long informed on important elements of Cahokia's history. Pauketat and colleagues, through their analyses of all classes of archaeological data produced, have been able to bring those excavations fully into modern interpretations of Cahokia.

For the Terminal Late Woodland period they see organizational characteristics visible in other Cahokia neighborhoods, but they also see something not apparent elsewhere—social differentiation. In Tract 15B, residential buildings are larger, have greater storage capacity, and show evidence for a greater density of corn or fabric processing. These data hint at larger social changes that become apparent in the following Early Mississippian period. Like the larger Cahokian landscape, Tract 15B becomes radically transformed. It shifted from a residential neighborhood to an elite/ritual space with monumental architecture, walled enclosures, and possibly even mounded architecture. By the end of the period, Tract 15B may have been incorporated into the palisaded space that enclosed Monks Mound and the Grand Plaza. The Late Mississippian decline of Cahokia saw Tract 15B return to a residential space, hosting a series of relatively undifferentiated domestic buildings. However, among those buildings were a few that seem to have housed the manufacture of ritual

## *Book Review*

accouterments or possibly hosted rituals involving painted or tattooed human bodies and painted garments.

As a non-Cahokian specialist, I will leave it to others to scrutinize the details of arguments of chronology, function, and meaning made by Pauketat and colleagues. What is useful about this volume is that the data and reasoning leading to those interpretations are right there to scrutinize. Since this book is essentially a report of Wittry's early work at the site, it contains more methodology and description than is typical of recent research monographs. That makes it especially relevant for American Bottom Mississippianists who want to parse every interpretation made. It does a very nice job of laying out the process by which archaeological data are organized, classified, and interpreted, and this makes it a very informative study for students to read as well.