

Cambridge University Press

978-1-107-02793-0 - Tikal: Paleoecology of an Ancient Maya City

Edited by David L. Lentz, Nicholas P. Dunning and Vernon L. Scarborough

Table of Contents

[More information](#)

## Contents

<i>List of Figures</i>	page vii
<i>List of Tables</i>	xi
<i>Contributors</i>	xiii
<i>Editors</i>	xvii
<i>Foreword by Payson Sheets</i>	xix
<i>Acknowledgments</i>	xxiii
1 <b>Tikal Land, Water, and Forest: An Introduction</b>	1
<i>Nicholas P. Dunning, David L. Lentz, and Vernon L. Scarborough</i>	
2 <b>The Evolution of an Ancient Waterworks System at Tikal</b>	16
<i>Vernon L. Scarborough and Liwy Grazioso Sierra</i>	
3 <b>At the Core of Tikal: Terrestrial Sediment Sampling and Water Management</b>	46
<i>Brian Lane, Vernon L. Scarborough, and Nicholas P. Dunning</i>	
4 <b>Bringing the University of Pennsylvania Maps of Tikal into the Era of Electronic GIS</b>	59
<i>Christopher Carr, Eric Weaver, Nicholas P. Dunning, and Vernon L. Scarborough</i>	
5 <b>Examining Landscape Modifications for Water Management at Tikal Using Three-Dimensional Modeling with ArcGIS</b>	87
<i>Eric Weaver, Christopher Carr, Nicholas P. Dunning, Lee Florea, and Vernon L. Scarborough</i>	

Cambridge University Press

978-1-107-02793-0 - Tikal: Paleoecology of an Ancient Maya City

Edited by David L. Lentz, Nicholas P. Dunning and Vernon L. Scarborough

Table of Contents

[More information](#)

vi  
 CONTENTS

6	<b>Life on the Edge: Tikal in a Bajo Landscape</b>	95
	<i>Nicholas P. Dunning, Robert E. Griffin, John G. Jones, Richard E. Terry, Zachary Larsen, and Christopher Carr</i>	
7	<b>Connecting Contemporary Ecology and Ethnobotany to Ancient Plant Use Practices of the Maya at Tikal</b>	124
	<i>Kim M. Thompson, Angela Hood, Dana Cavallaro, and David L. Lentz</i>	
8	<b>Agroforestry and Agricultural Practices of the Ancient Maya at Tikal</b>	152
	<i>David L. Lentz, Kevin Magee, Eric Weaver, John G. Jones, Kenneth B. Tankersley, Angela Hood, Gerald Islebe, Carmen E. Ramos Hernandez, and Nicholas P. Dunning</i>	
9	<b>Fire and Water: The Archaeological Significance of Tikal's Quaternary Sediments</b>	186
	<i>Kenneth B. Tankersley, Nicholas P. Dunning, Vernon L. Scarborough, John G. Jones, Christopher Carr, and David L. Lentz</i>	
10	<b>Fractious Farmers at Tikal</b>	212
	<i>David Webster and Timothy Murtha</i>	
11	<b>Material Culture of Tikal</b>	238
	<i>Palma J. Buttles, Carmen E. Ramos Hernandez, and Fred Valdez Jr.</i>	
12	<b>A Neighborly View: Water and Environmental History of the El Zotz Region</b>	258
	<i>Timothy Beach, Sheryl Luzzadder-Beach, Jonathan Flood, Stephen Houston, Thomas G. Garrison, Edwin Román, Steve Bozarth, and James Doyle</i>	
13	<b>Defining the Constructed Niche of Tikal: A Summary View</b>	280
	<i>David L. Lentz, Nicholas P. Dunning, and Vernon L. Scarborough</i>	
	<i>References</i>	297
	<i>Index</i>	341