

CONTENTS

CONTRIBUTORS IX

PREFACE XIII

H. B. S. COOKE

ACKNOWLEDGMENTS XV

INTRODUCTION XVII

WILLIAM J. SANDERS AND LARS WERDELIN

PHYSICAL AND TEMPORAL SETTING

- 1 Tectonics and Geomorphology of Africa during the Phanerozoic / 3
TIMOTHY C. PARTRIDGE
- 2 Chronology of Paleogene Mammal Localities / 19
ERIK R. SEIFFERT
- 3 Chronology of Neogene Mammal Localities / 27
LARS WERDELIN
- 4 Global and African Regional Climate during the Cenozoic / 45
SARAH J. FEAKINS AND PETER B. DEMENOCAL
- 5 A Review of the Cenozoic Vegetation History of Africa / 57
BONNIE F. JACOBS, AARON D. PAN,
AND CHRISTOPHER R. SCOTese

THE FAUNA: TAXONOMIC ACCOUNTS

PART ONE

Metatheria

- 6 Marsupialia / 77
GREGG F. GUNNELL

PART TWO

Afrotheria

- 7 Ptolemaïda / 83
GREGG F. GUNNELL, PHILIP D. GINGERICH,
AND PATRICIA A. HOLROYD
- 8 Macroscelidea / 89
PATRICIA A. HOLROYD

- 9 Tenrecoidea / 99

ROBERT J. ASHER

- 10 Tubulidentata / 107

PATRICIA A. HOLROYD

- 11 Bibymalagasia (*Mammalia Incertae Sedis*) / 113

LARS WERDELIN

- 12 Embrithopoda / 115

WILLIAM J. SANDERS, D. TAB RASMUSSEN,
AND JOHN KAPPELMAN

- 13 Hyracoidea / 123

D. TAB RASMUSSEN
AND MERCEDES GUTIÉRREZ

- 14 Sirenia / 147

DARYL P. DOMNING, IYAD S. ZALMOUT, AND PHILIP D. GINGERICH

- 15 Proboscidea / 161

WILLIAM J. SANDERS, EMMANUEL GHEERBRANT,
JOHN M. HARRIS, HARUO SAEGUSA, AND CYRILLE DELMER

- 16 Paleogene "Insectivores" / 253

ERIK R. SEIFFERT

PART THREE

Euarchontoglires

- 17 Rodentia / 263

ALISA J. WINKLER, CHRISTIANE DENYS, AND D. MARGARET AVERY

- 18 Lagomorpha / 305

ALISA J. WINKLER AND D. MARGARET AVERY

- 19 Paleogene Prosimians / 319

MARC GODINOT

- 20 Later Tertiary Lorisiformes / 333

TERRY HARRISON

- 21 Subfossil Lemurs of Madagascar / 351

LAURIE R. GODFREY, WILLIAM L. JUNGERS, AND DAVID A. BURNEY

- 22 Paleogene Anthropoids / 369

ERIK R. SEIFFERT, ELWYN L. SIMONS,
JOHN G. FLEAGLE, AND MARC GODINOT

- 23 Cercopithecoidea / 393
NINA G. JABLONSKI AND STEPHEN FROST
- 24 Dendropithecoidea, Proconsuloidea,
and Hominoidea / 429
TERRY HARRISON
- 25 Hominini / 471
LAURA M. MACLATCHY, JEREMY DESILVA,
WILLIAM J. SANDERS, AND BERNARD WOOD

PART FOUR

Laurasiatheria

- 26 Creodonta / 543
MARGARET E. LEWIS AND MICHAEL MORLO
- 27 Prionogalidae (Mammalia *Incertae Sedis*) / 561
LARS WERDELIN AND SUSANNE M. COTE
- 28 Primitive Ungulates ("Condylarthra" and Stem
Paenungulata) / 563
EMMANUEL GHEERBRANT
- 29 Neogene Insectivora / 573
PERCY M. BUTLER
- 30 Chiroptera / 581
GREGG F. GUNNELL
- 31 Pholidota / 599
TIMOTHY J. GAUDIN
- 32 Carnivora / 603
LARS WERDELIN AND STÉPHANE PEIGNÉ
- 33 Chalicotheriidae / 659
MARGERIE C. COOMBS AND SUSANNE M. COTE
- 34 Rhinocerotidae / 669
DENIS GERAADS
- 35 Equidae / 685
RAYMOND L. BERNOR, MIRANDA J. ARMOUR-CHELU,
HENRY GILBERT, THOMAS M. KAISER, AND ELLEN SCHULZ

- 36 Tragulidae / 723
DENIS GERAADS
- 37 Pecora *Incertae Sedis* / 731
SUSANNE M. COTE
- 38 Bovidae / 741
ALAN W. GENTRY
- 39 Giraffoidea / 797
JOHN M. HARRIS, NIKOS SOLOUNIAS, AND DENIS GERAADS
- 40 Cervidae / 813
ALAN W. GENTRY
- 41 Camelidae / 815
JOHN M. HARRIS, DENIS GERAADS, AND NIKOS SOLOUNIAS
- 42 Suoidea / 821
LAURA C. BISHOP
- 43 Anthracotheriidae / 843
PATRICIA A. HOLROYD, FABRICE LIHOREAU, GREGG F. GUNNELL,
AND ELLEN R. MILLER
- 44 Hippopotamidae / 853
ELEANOR WESTON AND JEAN-RENAUD BOISSERIE
- 45 Cetacea / 873
PHILIP D. GINGERICH

BROADER PERSPECTIVES

- 46 Systematics of Endemic African Mammals / 903
ROBERT J. ASHER AND ERIK R. SEIFFERT
- 47 Mammal Species Richness in Africa / 921
PETER ANDREWS AND EILEEN M. O'BRIEN
- 48 Stable Carbon and Oxygen Isotopes in East African
Mammals: Modern and Fossil / 941
THURE E. CERLING, JOHN M. HARRIS, MEAVE G. LEAKEY,
BENJAMIN H. PASSEY, AND NAOMI E. LEVIN