

Contents

<i>Preface and acknowledgments</i>	v
--	---

Overview

1. <i>Gondwana paleogeography from assembly to breakup—A 500 m.y. odyssey</i>	1
Ronald C. Blakey	

Near-Field Records

2. <i>A review of Permian–Carboniferous glacial deposits in Western Australia</i>	29
A.J. Mory, J. Redfern, and J.R. Martin	
3. <i>Stratigraphic record and facies associations of the late Paleozoic ice age in eastern Australia (New South Wales and Queensland)</i>	41
Christopher R. Fielding, Tracy D. Frank, Lauren P. Birgenheier, Michael C. Rygel, Andrew T. Jones, and John Roberts	
4. <i>Permian glacigenic deposits in the Transantarctic Mountains, Antarctica</i>	59
John L. Isbell, Zelenda J. Koch, Gina M. Szablewski, and Paul A. Lenaker	
5. <i>Carboniferous–Permian glaciation in the main Karoo Basin, South Africa: Stratigraphy, depositional controls, and glacial dynamics</i>	71
John L. Isbell, Douglas I. Cole, and Octavian Catuneanu	
6. <i>Single-zircon U–Pb dating of Carboniferous–Permian tuffs, Namibia, and the intercontinental deglaciation cycle framework</i>	83
Harald Stollhofen, Mario Werner, Ian G. Stanistreet, and Richard A. Armstrong	
7. <i>Late Paleozoic glacial deposits of Brazil: Paraná Basin</i>	97
A.C. Rocha-Campos, Paulo R. dos Santos, and José R. Canuto	
8. <i>Sequence stratigraphy and biostratigraphy of the Late Carboniferous to Early Permian glacial succession (Itararé subgroup) at the eastern-southeastern margin of the Paraná Basin, Brazil</i>	115
Michael Holz, Paulo A. Souza, and Roberto Iannuzzi	
9. <i>Carboniferous glacigenic deposits of the proto-Precordillera of west-central Argentina</i>	131
Lindsey C. Henry, John L. Isbell, and Carlos O. Limarino	
10. <i>Pennsylvanian and Permian sequences in Bolivia: Direct responses to Gondwana glaciation</i> ...	143
G.W. Grader, P.E. Isaacson, E. Díaz-Martínez, and M.C. Pope	
11. <i>Late Devonian and Early Carboniferous glacial records of South America</i>	161
Mário Vicente Caputo, José Henrique Gonçalves de Melo, Maurice Streel, and John L. Isbell	

12. *A regional overview of the late Paleozoic glaciation in Oman* 175
Joe R. Martin, Jonathan Redfern, and John F. Aitken

Far-Field Records

13. *The record of Carboniferous sea-level change in low-latitude sedimentary successions from Britain and Ireland during the onset of the late Paleozoic ice age* 187
Sarah J. Davies
14. *Influence of late Paleozoic Gondwana glaciations on the depositional evolution of the northern Pangean shelf, North Greenland, Svalbard, and the Barents Sea* 205
Lars Stemmerik
15. *Late Paleozoic cyclic strata of Euramerica: Recognition of Gondwanan glacial signatures during periods of thermal subsidence* 219
M.R. Gibling and M.C. Rygel
16. *Appalachian sedimentary cycles during the Pennsylvanian: Changing influences of sea level, climate, and tectonics* 235
Stephen F. Greb, Jack C. Pashin, Ronald L. Martino, and Cortland F. Eble
17. *Deciphering the mid-Carboniferous eustatic event in the central Appalachian foreland basin, southern West Virginia, USA* 249
Bascombe M. Blake Jr. and Jack D. Beuthin
18. *Evidence for eustasy at the Kinderhookian-Osagean (Mississippian) boundary in the United States: Response to late Tournaisian glaciation?* 261
Thomas W. Kammer and David L. Matchen
19. *Pennsylvanian cyclothems in Midcontinent North America as far-field effects of waxing and waning of Gondwana ice sheets* 275
Philip H. Heckel
20. *Paleosol archives of environmental and climatic history in paleotropical western Pangea during the latest Pennsylvanian through Early Permian* 291
Neil J. Tabor, Isabel P. Montañez, Christopher R. Scotese, Christopher J. Poulsen, and Greg H. Mack

Synthesis Papers

21. *Pennsylvanian tropical floras from the United States as a record of changing climate* 305
Hermann W. Pfefferkorn, Robert A. Gastaldo, William A. DiMichele, and Tom L. Phillips
22. *A review of the palynostratigraphy of Gondwanan Late Carboniferous to Early Permian glaciogene successions* 317
Michael H. Stephenson
23. *Late Paleozoic climate dynamics revealed by comparison of ice-proximal stratigraphic and ice-distal isotopic records* 331
T.D. Frank, L.P. Birgenheier, I.P. Montañez, C.R. Fielding, and M.C. Rygel
24. *The late Paleozoic ice age—A review of current understanding and synthesis of global climate patterns* 343
Christopher R. Fielding, Tracy D. Frank, and John L. Isbell