

GEOLOGICAL SOCIETY SPECIAL PUBLICATION NO. 183

Western North Atlantic Palaeogene and Cretaceous Palaeoceanography

EDITED BY

DICK KROON
(University of Edinburgh, UK)

R. D. NORRIS
(Woods Hole OI, USA)

and

A. KLAUS
(Ocean Drilling Program, USA)

2001
Published by
The Geological Society
London

Contents

NORRIS, R. D., KROON, D., HUBER, B. T. & ERBACHER, J. Cretaceous-Palaeogene ocean and climate change in the subtropical North Atlantic	1
NORRIS, R. D., KLAUS, A. & KROON, D. Mid-Eocene deep water, the Late Palaeocene Thermal Maximum and continental slope mass wasting during the Cretaceous-Palaeogene impact	23
BARKER, C. E., PAWLEWICZ, M. J. & COBABE, E. A. Deposition of sedimentary organic matter in black shale facies indicated by the geochemistry and petrography of high-resolution samples, Blake Nose, western North Atlantic	49
HOLBOURN, A. & KUHNT, W. No extinctions during Oceanic Anoxic Event 1b: the Aptian-Albian benthic foraminiferal record of ODP Leg 171	73
SELF-TRAIL, J. M. Biostratigraphic subdivision and correlation of upper Maastrichtian sediments from the Atlantic Coastal Plain and Blake Nose, western Atlantic	93
MACLEOD, K. G. & HUBER, B. T. The Maastrichtian record at Blake Nose (western North Atlantic) and implications for global palaeoceanographic and biotic changes	111
MARTINEZ-RUIZ, F., ORTEGA-HUERTAS, M., KROON, D., SMIT, J., PALOMO-DELGADO, I. & ROCCHIA, R. Geochemistry of the Cretaceous-Tertiary boundary at Blake Nose (ODP Leg 171B)	131
MARTINEZ-RUIZ, F., ORTEGA-HUERTAS, M., PALOMO-DELGADO, I. & SMIT, J. K-T boundary spherules from Blake Nose (ODP Leg 171B) as a record of the Chicxulub ejecta deposits	149
RÖHL, U., OGG, J. G., GEIB, T. L. & WEFER, G. Astronomical calibration of the Danian time scale	163
SANFILLIPO, A. & BLOME, C. D. Biostratigraphic implications of mid-latitude Palaeocene-Eocene radiolarian faunas from Hole 1051A, ODP Leg 171B, Blake Nose, western North Atlantic	185
VAN MOURIK, C. A. BRINKHUIS, H. & WILLIAMS, G. L. Mid- to Late Eocene organic-walled dinoflagellate cysts from ODP Leg 171B, offshore Florida	225
SLOAN, L. C. & HUBER, M. North Atlantic climate variability in early Palaeogene time: a climate modelling sensitivity study	253
WADE, B. S., KROON, D. & NORRIS, R. D. Orbitally forced climate change in late mid-Eocene time at Blake Nose (Leg 171B): evidence from stable isotopes in foraminifera	273
DICKENS, G. R. Carbon addition and removal during the Late Palaeocene Thermal Maximum: basic theory with a preliminary treatment of the isotope record at ODP Site 1051, Blake Nose	293
PLETSCH, T. Palaeoenvironmental implications of palygorskite clays in Eocene deep-water sediments from the western central Atlantic	307
Index	317