### AGU ANTARCTIC RESEARCH SERIES

## Climate Evolution in the Southern Ocean and Australia s Cenozoic Flight northward from Antarctica

or

# Climate Evolution in the Southern Ocean and the Separation of Australia and Antarctica

or

## Cenozoic Paleoceanography and Tectonics in the Expanding Tasmanian Seaway

PREFACE: Neville F. Exon, James P. Kennett and Mitchell J. Malone

#### **SYNTHESES**

THE CRETACEOUS AND CENOZOIC INTERPLAY OF TECTONICS AND SEDIMENTATION IN THE AUSTRALIA-ANTARCTIC SECTOR OF THE SOUTHERN OCEAN Neville F. Exon, Christian Robert, Mitchell J. Malone, and Peter J. Hill [Jim, others?]

REGIONAL BIOGEOGRAPHY IN THE AUSTRALIA-ANTARCTIC SECTOR OF THE SOUTHERN OCEAN AND ITS RELATIONSHIP TO CURRENT PATTERNS James P. Kennett [and others?]

PALEOCEANOGRAPHIC EVOLUTION OF THE TASMANIAN SEAWAY AND ITS CLIMATIC IMPLICATIONS James P. Kennett and Neville F. Exon [uncertain title and submission]

THE TIMING AND NATURE OF THE OPENING OF THE TASMANIAN GATEWAY: THE EOCENE-OLIGOCENE TRANSITION OF ODP LEG 189 SITES Catherine E. Stickley, Henk Brinkhuis, Stephen. A. Schellenberg, Appy Sluijs, Ursula R hl, Mike Fuller, Marianne Grauert, Matthew Huber, Jeroen Warnaar, and Graham Williams

#### **CRETACEOUS THROUGH CENOZOIC**

AGE OF OCEANIC CRUST IN THE SOUTHERN OCEAN: ITS SUBSIDENCE HISTORY AND PLATE TECTONIC IMPLICATIONS Belinda Brown, Dietmar Mueller, Steve Cande and Howard Stagg

A DETAILED LOOK AT THE OPENING OF TASMANIAN GATEWAY

Larry Lawver

TECTONICS OF THE OFFSHORE TASMANIAN AREA INCORPORATING RESULTS FROM ODP LEG 189 Peter J. Hill and Neville F. Exon

ON THE MAGNETOSTRATIGRAPHY OF THE EAST TASMAN PLATEAU (ODP SITE 1172) AND THE TIMING OF THE OPENING OF THE TASMANIAN GATEWAY Mike Fuller and Yannick Touchard

CENOZOIC PALEOENVIRONMENTS IN THE TASMANIAN AREA OF THE SOUTHERN OCEAN FROM BULK AND CLAY MINERALOGY, ODP LEG 189: GATEWAY OPENING AND CLIMATE CHANGE Christian Robert

CENOZOIC EVOLUTION OF THE AUSTRALO-ANTARCTIC GATEWAY: CONSTRAINTS FROM BIOGENIC AND TERRIGENOUS FLUX (LEG 189 SEDIMENTS) Stephen A. Schellenberg and Thomas R. Janecek [et al.?]

MAGNETOSTRATIGRAPHY ON THE LATE EOCENE-OLIGOCENE RECORD AT HOLE 1168A, LEG 189: OPENING OF THE TASMANIAN GATEWAY. Yannick Touchard and Mike Fuller

OCEAN CIRCULATION DURING THE PALEOGENE: A THEORETICAL AND MODELLING PERSPECTIVE Matthew Huber and Doron Nof

#### **CRETACEOUS THROUGH EOCENE**

SEDIMENTOLOGY OF LATEST CRETACEOUS THROUGH EOCENE SHALLOW MARINE SEQUENCES FROM A TEMPERATE ANTARCTIC MARGIN: THE TASMANIAN REGION (ODP LEG 189) Neville Exon, Henk Brinkhuis, Christian Robert and James Kennett

ENVIRONMENTAL CHANGES AT THE CRETACEOUS/TERTIARY TRANSITION, SOUTHERN OCEAN Stephen A. Schellenberg, Henk Brinkhuis, Timothy S. White, Catherine Stickley, James P. Kennett, Kristeen McGonigal

ON THE SEARCH FOR THE PALEOCENE/EOCENE BOUNDARY IN THE SOUTHERN OCEAN: EXPLORING ODP LEG 189 HOLES 1171D AND 1172D, TASMAN SEA Ursula R hl, Henk Brinkhuis and Mike Fuller CYCLOSTRATIGRAPHY OF MIDDLE AND LATE EOCENE SEDIMENTS FROM THE EAST TASMAN PLATEAU (ODP SITE 1172) Ursula R hl, Henk Brinkhuis, Catherine E. Stickley, Mike Fuller, Stephen A. Schellenberg, Gerold Wefer, and G.L.Williams

RECORD OF EOCENE SOUTHERN OCEAN REDOX AND PORE-WATER SALINITY CHANGES AND THEIR PALEOCEANOGRAPHIC SIGNIFICANCE Tim S. White and Mitchell J. Malone

#### **OLIGOCENE AND YOUNGER**

LATEST OLIGOCENE TO PLEISTOCENE PLANKTIC FORAMINIFERAL BIOSTRATIGRAPHY, SITES 1168 AND 1172 George C.H Chaproniere and D. Clay Kelly

THE OLIGOCENE-MIOCENE BOUNDARY: LINKING PALEOCEANOGRAPHIC CHANGE IN THE AUSTRALO-ANTARCTIC GATEWAY WITH CHANGES IN SOUTHERN OCEAN CIRCULATION (SITES 1168, 1170-1172) Helen A. Pf hl and I. Nick McCave

MIOCENE CALCAREOUS NANNOFOSSIL BIOSTRATIGRAPHY, ODP LEG 189 Kristeen.L. McGonigal and Wuchang Wei.

SEA-SURFACE CHANGES IN THE SOUTHERN OCEAN DURING THE EARLY MIOCENE (21.0-16.4MA): STABLE ISOTOPE RECORDS FROM SHALLOW-WATER DWELLING PLANKTONIC FORAMINIFERS FROM SITE 1168 Stephen Pekar, Atsuhito Ennyu, and Jean Lynch-Stieglitz

MIDDLE MIOCENE PALEOCEANOGRAPHY IN THE SOUTHERN HIGH-LATITUDES OFF TASMANIA: STABLE ISOTOPE RECORDS FROM ODP SITES 1170 AND 1172 Atsuhito Ennyu and Michael A. Arthur

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PLIOCENE-PLEISTOCENE (~0.3.5 MA) CHANGES IN SOUTH OCEAN CLIMATE AND DEEPWATER CHEMISTRY: EVIDENCE FROM HIGH-RESOLUTION LEG 189 STABLE ISOTOPE RECORDS Ulysses S. Ninnemann, Dirk Nuernberg, Natashe Brughmans, Jean Lynch-Steiglitz [etc?]

CYCLOSTRATIGRAPHY AND ASTRONOMICAL CALIBRATION OF THE LATE NEOGENE TIME SCALE USING LEG 189 COMPOSITE SEDIMENTARY SECTIONS Thomas, R. Janecek, Ulysses S. Ninnemann [and others?]

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