

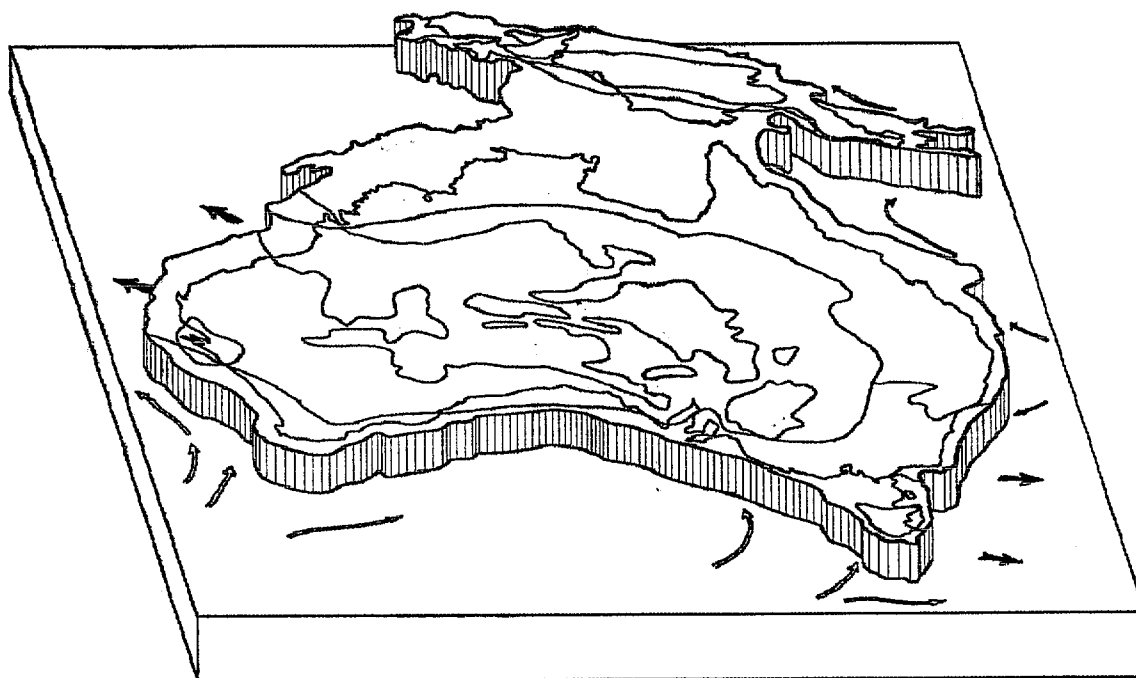
BMR
GEOLOGY AND
GEOPHYSICS

A U S T R A L I A

Record 1991/104

Quaternary Climate in Australia

a bibliography



Environmental Geoscience



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compiled by
E. Bleys, G. R. Hunt and M. Truscott

Introduction by
E. M. Truswell

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INTRODUCTION

The prospect of climate change in the immediate future, and the impact that this may have on human activity has aroused major concern through a wide section of the global community. The perception that such change may have a human cause has given rise to a great deal of activity at both the scientific and the political level. The political concern is reflected in current efforts to develop an international framework convention to reduce human impacts on the world's climate, through decisions on energy use and the elimination of substances emitted into the atmosphere. The scientific concern is being channelled into developing a better understanding of the processes controlling climate, and to eliminating the very substantial uncertainties about the directions and causes of global environmental change. Major international projects such as the International Panel on Climate Change, and the International Geosphere Biosphere Program have arisen to assess the nature and the scale of changes and to develop projects to increase understanding of the processes involved.

Clarification of the nature of the earth's climate, necessary to develop effective policies to manage change, depends on an understanding of long term, natural climatic trends, and of the range of natural variability. The evidence for change preserved in the younger parts of the geological record provides the best available archive of climatic variation prior to instrumentation. The value of this record has been acknowledged in the forum of the IGBP, where a core project entitled 'Past Global Ages' (PAGES) has been set up to document past changes at several timescales.

The Australian, or more appropriately, the Australasian region, provides an unparalleled record of climatic variation occurring through a longitudinal transect extending from the tropics to the polar regions of Antarctica, and encompassing environments as diverse as moist coastal lowlands, the presently arid centre of Australia, and the polar ice sheet.

The 1500 references compiled here document a picture of dramatic climatic and environmental change occurring through the past 2 million years, but with a concentration on the younger part of that interval. Indeed, most of the references listed here record the events of the past 150,000 years - the last full glacial cycle.

The nature of the proxy evidence for past climates in the region is diverse. The references listed describe data drawn from pollen analysis, from the distribution and composition of mammalian faunas, from isotopic fluctuations in shell material in lacustrine and marine sequences, and from a variety of sedimentological, geomorphological and palaeohydrological sources.

To be coherently interpreted in terms of climate systems operating in the past, it is imperative that events be placed in an accurate time frame. The list includes references to a variety of physical and chemical dating techniques - from the use of half-lives of a variety of elements, to behavioural properties of the earth's magnetic field, and, less precisely, to stratigraphic and biological correlation techniques.

The purpose of bringing this information together is to make use of it to provide a test for climatic models currently being developed. The present difficulty in producing models that accurately replicate climates at a regional level is a subject of concern. One critical test for models lies in their ability to reproduce global climates of the past. Such a test defines the limits of confidence for those models to be used in the prediction of future changes.

The bibliographic compilation presented here is a first step toward the compilation, analysis and collation of Australian palaeoclimatic data into a format in which it can be used to provide the necessary model control. The next phase is the translation of data from selected, preferably narrow, time intervals, into palaeoclimatic maps. The numbered references provide the basis for site data in the database from which the maps are being developed.

The references presented here have been ordered using the Macintosh program 'Procite'. Key words allow retrieval of information on a geographic basis - in this case state by state, or using a variety of subject areas (process, landform, fossil type, methodology etc.). A number of references to New Zealand climatic events have been included, as have some papers pertaining to global phenomena. In both cases, these have been included where they impact on the Australian history.

The project was begun by Marilyn Truscott in March, 1990, and has been expanded by Evert Bleys and Geoff Hunt.

The bibliography is presented in the hope that it will draw suggestions for its improvement and elaboration from the Australian community of Quaternarists. Only if that community can develop a sense of ownership of this and the associated, developing, palaeoclimatic database, can the value of these research tools be optimised.

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LIST OF INDEX TERMS USED IN BIBLIOGRAPHY

SCIENCE BRANCHES AND MAJOR DIVISIONS

anthro (anthropology)
arch (archaeology)
biogeog (biogeography)
biostrat (biostratigraphy)
clim (climate)
clim change (climate change)
diagen (diagenesis)
ecology
general
geography
geology
geomorph (geomorphology)
hist (history)
human
human ec (human ecology)
hydrol (hydrology)
limnol (limnology)
lithol (lithology)
magnetostrat (magnetostratigraphy)
map
methods
mineralogy
models
palaeoclim (palaeoclimate)
palaeoec (palaeoecology)
palaeoenv (palaeoenvironment)
palaeogeog (palaeogeography)
palaeomag (palaeomagnetism)
palaeont (palaeontology)
palynology
pet (petrology)
research
strat (stratigraphy)
summary
tect (tectonics)

CLIMATE MODELLING

boundary (as in boundary conditions)
circulation (sea, water, atmosphere, circulation models)
gcm (General Circulation Model)
obliquity (of orbit, in modelling of ice ages)
orbital param (orbital parameters)
rotation (rotation of earth, in modelling of ice ages)

GENERAL TERMS

abor (aboriginal)
aeol (aeolian)
age
albedo (for climate modelling)
alluv (alluvial, alluvium)
arid
artefacts
atmos (atmosphere)
barrier (barrier beach or dune)
basalt
bathymetry
beach
beach ridge (or stranded beach)
beach-rock
calcarenite
calcrete
cave
chenier
clay
coast
coastal plain
cold (cold climate)
core
crater
cryosphere
deglaciation
delta
dep (deposits, deposition)
desert
dune
dune migration
dust
erosion
est (estuary)

eust (eustatic history)
evap (evaporite)
evol (evolution)
extinction
fan (alluvial fan)
fire
flood
flood plain
fluv (fluvial sediments)
geotherm
glacial cycles
glacial feat (glacial features)
glaciation
glacier
global
greenhouse
groundwater
gypcrete
gypsum
ice (ice and ice age)
icevol (ice volume)
insolation (for climate modelling)
interglac (interglacial)
isostasy
karst
lacsed (lacustrine sediment)
lake
lake level
landscape evol (landscape evolution)
laterite
lst (limestone)
lunette
maar
marsed (marine sediment)
midden
ocean
oil (petroleum)
oid
palaeodrainage
palaeosol
palaeotemp (palaeotemperature)
peat
periglacial
periglacial feat (periglacial feature)
plain
playa

precip (precipitation)
river
salinity
salt lake
sand (e.g. dune sand)
sealev (sealevel)
sea temp (sea temperature)
sed (sediment, sedimentation)
sed-org zon (sediment-organism zonation)
shelf (continental shelf)
shell
shoreline
silcrete
snowline (including snowfields, snow)
soil
speleothem
struct (structure)
sun (solar, insolation)
swamp
temp (temperature)
terrace
terrain
tidal (tidal flat, sequence)
timescale
uplift
volc (volcanic)
water
wave energy
weathering (e.g. w. rind, rock varnish)
wind

FLORA, FAUNA

bird
coral
fauna
faunevol (faunal evolution)
flora
florevol (floral evolution)
foram (foraminifera)
fossil
invert (invertebrates)
mammal
mangrove
microfossil
mollusc
ostracod
pollen
reef
reef growth
stromat (stromatolite)
veg (vegetation)
vegdistrib (vegetation distribution)
veghist (vegetation history)
vert (vertebrate)

GEOCHEMISTRY

aarac (amino acid racemisation dating)
aerosol
carbiso (carbon isotopes)
carbonate
CO2 (carbon dioxide)
dendro (dendrochronology)
dolomite
esr (electron spin resonance)
geochem (geochemistry)
geochron (geochronology)
isotope
Mg (magnesium)
oxiso (oxygen isotopes)
phosphate (and phosphatisation)
radc (radiocarbon dating)
Sr (strontium)
tl (thermoluminescence)
U-series (uranium series dating)

LOCALITIES

Adelaide
Amadeus (Lake Amadeus or region)
antarctic
Arafura Sea
Atherton (Atherton Tableland)
aust (Australia)
austasia (Australasia)
Bass St (Bass Strait)
Bassian (Bassian Plain, Tasmania)
Batemans Bay
Blue Mtns
Buchanan
Carpentaria
c.aust (central Australia)
Coorong
Coral Sea
Darling (Darling River)
e.aust (eastern Australia)
Fitzroy (Fitzroy River)
Flinders (Flinders Ranges)
Fly River
Fraser (Fraser Island)
GABight (Great Australian Bight)
gbr (Great Barrier Reef)
Gippsland
Heard (Heard Island)
Huon (Huon Peninsula)
Illawarra
Indian Ocean
Indonesia
Kangaroo (Kangaroo Island)
Kerguelen (Kerguelen Island)
Kimberley
King Valley
Kosciusko
Kow Swamp
Lake Buchanan
Lake Callabonna
Lake Eyre
Lake Frome
Lake George
Lake MacLeod
Lake Mungo
Lord Howe (Lord Howe Island)

Lake Terang
Lake Tyrrell
Macdonnell (Macdonnell Ranges)
Macquarie (Macquarie Island)
Mallee (region)
Mitchell (Mitchell River)
Mt Gambier
Murray (Murray River and Basin)
n.aust (northern Australia)
Nepean (Nepean River)
newguin (New Guinea)
Nullarbor
nw.aust (northwestern Australia)
nz (New Zealand)
pacific
papua (Papua)
Perth
png (Papua New Guinea)
Riverine (Riverine Plain)
Ross Sea
Rottnest (Rottnest Island)
s.america (South America)
s.aust (southern Australia)
se.aust (southeastern Australia)
Shark Bay
s.hemis (Southern Hemisphere)
Shoalhaven
Snowy Mtns
S.Alligator (South Alligator River)
Southern Ocean
South Table (Southern Tablelands)
s.pacific (South Pacific)
Spencer Gulf
Stradbroke (Stradbroke Island)
Strzelecki (Strzelecki Desert)
sw.aust (southwestern Australia)
Sydney
Tasman Sea
Tawonga
Timor
Timor Sea
Tirari (Tirari Desert)
Torres St (Torres Strait)
Tower Hill
Townsville
Woronora

STATES

act (Australian Capital Territory)
nsw (New South Wales)
nt (Northern Territory)
qld (Queensland)
sa (South Australia)
tas (Tasmania)
vic (Victoria)
wa (Western Australia)

TIMESCALES

Ceno (Cainozoic or Cenozoic)
Holocene
lgm (Last Glacial Maximum)
Mesozoic
Neogene
Pliocene
Plio-Pleist bdry (Pliocene-Pleistocene boundary)
Quaternary
Tert (Tertiary)

OTHER ABBREVIATIONS

enso (El Niño-Southern Oscillation)
igbp (International Geosphere-Biosphere Program)
sem (Scanning Electron Microscopy)
SLEADS (Salt Lakes, Evaporites and Aeolian Deposits)

**QUATERNARY CLIMATE
IN
AUSTRALIA**

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**PALAEOCLIMATE
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TASMANIA**

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**HUMANS
AND
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