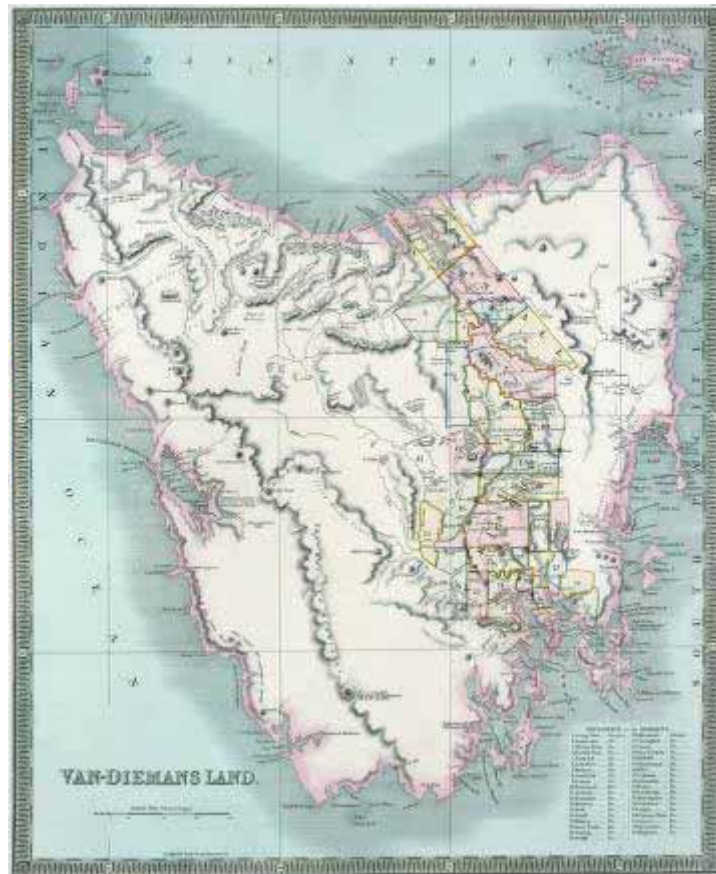


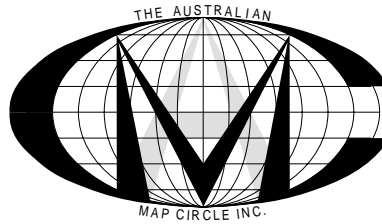
Australian Map Circle
29th Annual Conference

Programme and Abstracts



The University of Tasmania
4-7 February 2001

Cover illustration: J.Downer, *Van-Diemans Land*, 1831.
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Australian Map Circle 2001 Conference

Welcome to the Australian Map Circle (AMC) 2001 Annual Conference at the University of Tasmania, Hobart. This is the first AMC conference in Tasmania since the 1984 Conference, which was also at the University of Tasmania. The program for this conference will demonstrate both the great changes and the continuities in maps and mapping since that time.

Elsewhere in this volume you will find the programme of activities, followed by abstracts for the papers. Please also note the following general information about the conference:

Venue. Activities will commence promptly at 9:00 am each day at the University of Tasmania Staff Club. The University of Tasmania is located in Sandy Bay, approximately 2km south of the centre of Hobart. All papers will be presented at the Staff Club.

Transport. Transport by mini-bus will be provided from the *Blue Hills Motel* to the University of Tasmania Staff Club each morning. (Transport might possibly include other locations by arrangement, at the convenience of the committee). The technical tours and site visits will take conference delegates to other locations around Hobart; transport by mini-bus will be provided for these activities. It may also be possible to provide some transport to Hobart Airport by mini-bus on Wednesday afternoon at the conclusion of the Conference.

Meals. Morning tea, lunch and afternoon tea will be provided each day for all delegates and speakers. Also included in full registration are afternoon tea on Sunday, the Welcome BBQ on Sunday evening, and the Conference Dinner on Tuesday evening. The committee is confident the catering will provide a fine sampling of Tasmanian cuisine. Delegates should make their own breakfast arrangements each day, as well as arrangements for dinner on Monday evening.

Acknowledgements. The Conference Planning Committee wishes to thank the following for their assistance in making this conference happen. Siobhan Gaskell (Director Library Services) and the staff of the State Library of Tasmania, especially Tony Marshall (Senior Librarian, Heritage Collections. Members and staff of the University of Tasmania Staff Club, especially Tony Sprent and our caterers *The Pickled Pear*. The Department of Primary Industry, Water and Environment, especially Mike Harding (Manager, Geodata Services Branch). The CSIRO Division of Marine Research, especially Denis Abbott (Librarian). The Australian Antarctic Division, especially Henk Brolsma (Mapping Officer) and Ursula Ryan (GIS Officer). Trevor Nicholson for allowing us to visit his personal collection of early maps of Tasmania. Finally we thank all the speakers and delegates who have made the conference possible.

We trust that all delegates and speakers will find the conference a productive, rewarding and enjoyable experience.

AMC 2001 Conference Planning Committee.

Greg Eccleston, John Cain, Marie Morden and Brendan Whyte.

About the Australian Map Circle

The Australian Map Circle (AMC) is a national group of map producers, users and curators, which acts as a medium of communication for all those interested in maps. The AMC was founded as the Australian Map Curators' Circle in 1973.

The aims of the AMC are:

- To promote communication between producers, users and curators of maps.
- To improve the skills and status of persons working with map collections.
- To promote the development and effective exploitation of map collections throughout Australia.

The AMC Annual Conference is held in a different city each year. All aspects of map use and mapping are discussed and the proceedings of the conference are published as part of the journal of the AMC, *The Globe*. The diversity of the papers presented at the AMC's annual conferences reflects the broad range of interests of its members. Topics covered at these conferences include historical maps, map production techniques, the cataloguing and archiving of maps, government policy and technological change.

Membership of the AMC is available to anyone who has an interest in maps. Subscription rates for an individual are \$30.00 a year, for which you receive the AMC journal *The Globe*, and the occasional *Newsletter*.

For more details or for a membership brochure, please see our web site:

<http://australianmapcircle.org.au>

Or write to:

Australian Map Circle
c/o Department of Geography
University of Melbourne, VIC, 3010
AUSTRALIA

Conference Programme

Sunday 4 February

Technical Tour 1:

- 3:30 Optional Battery Point Historic Walk.
Assemble at the Shipwrights Arms Hotel, 29 Trumpeter St, Battery Point, Hobart, for afternoon tea. Walk commences at 4:00 pm.
- 6:00 Welcome BBQ at the University of Tasmania Staff Club.

Monday 5 February

- 8:30 **Registration** at University of Tasmania Staff Club

Technical Session 1 & 2

- 9:00 Opening Address by AMC President, Gregory Eccleston
- 9:05 **Trevor Nicholson**
Printed maps of Van Diemen's Land
- 9:35 **Denis Shephard**
Gondwana to Waaia: mapping landscape change in Moira Shire, northern Victoria, from 1840s to 2000
- 10:05 **Ian Overton**
Demonstration of *Map Librarian* software
- 10:35 -- Morning Tea --
- 11:00 **Michael Ross**
The mysterious Eastland uncovered
- 11:30 **Clive Beauchamp**
Australia's first federal election 1901: mapping and naming the electorates in New South Wales
- 12:00 **Dale Chatwin & Robert Warneke** (presented by Robert Warneke)
Using Maury's 'Whale Charts' and other resources to determine the extent and presence of right whales in the waters around Tasmania
- 12:30 -- Lunch --

Technical Tour 2

- 2:00 **Site visit** to the Department of Primary Industry, Water and Environment, including afternoon tea. Transport by mini-buses will be provided.

Conference Programme

Tuesday 6 February

Technical Sessions 3 & 4

These sessions will be the least formal of the conference. Delegates will divide into two groups. The first group will visit Trevor Nicholson's private collection of historical maps of Tasmania (which has been described as better even than the collection held by the State Library of Tasmania) while the second group visits Constitution Dock, including an antique Map Shop and the Tasmanian Museum. After meeting for morning tea at Constitution Dock the groups will then swap activities. This will be followed by a picnic lunch at a mystery location. Delegates are advised to wear comfortable walking shoes. Transport by mini-buses will be provided.

9:00 Delegates assemble at University of Tasmania Staff Club. **Do not be late**, as mini-buses will depart promptly at 9:15 am.

9:30 First Visit

10:45 -- Morning Tea --

11:30 Second Visit

12:45 -- Lunch --

Technical Tour 3

2:00 **Site visits** to the CSIRO Division of Marine Research (Hobart) and the Australian Antarctic Division (Kingston) including afternoon tea at CSIRO. Transport by mini-buses will be provided.

Conference Dinner

7:00 for 7:30 *The Boat House*, Queens Walk, Cornelian Bay. Phone 03 6228 9289. Transport by mini-bus will be provided from the *Blue Hills Motel* (and possibly other locations by arrangement, if convenient).

Conference Programme

Wednesday 7 February

Technical Session 5 & 6

- 9:00 **Victor Prescott**
The evolution of Australia's state boundaries and the prospects for change
- 9:30 **Leon Jackson**
Mapping the Great Barrier Reef
- 10:00 **Maura O'Connor**
Demonstration of the Online Directory of Australian Map Collections
- 10:30 -- Morning Tea --
- 11:00 **Bill Richardson**
Martellus's "Dragon's tail": a pre-Columbian map of South America?
- 11:30 **Eamonn Clifford**
Electoral Matters and Geographic Information Systems (GIS)
- 12:00 **Bob Walker**
Seafarer GeoTIFF
- 12:30 -- Lunch --
- 1:30 **Australian Map Circle 2001 Annual General Meeting**
(at the University of Tasmania Staff Club).

Technical Tour 4

- 3:00 **Site visit** to the State Library of Tasmania, including the Tasmaniana Library, the WL Crowther Library and the Allport Library. Includes afternoon tea. Transport by mini-buses will be provided.

Monday 5 February

9:05 – 9:35

Printed maps of Van Diemen's Land

Trevor Nicholson

This paper, based on one of the foremost collections of early maps of Tasmania, will look at the mapping of Tasmania. (Delegates will also enjoy an opportunity to view this collection on Tuesday morning).

Trevor Nicholson, trevornicholson@bigpond.com

A private collector, who developed an interest in maps over 40 years ago and has since developed one of the foremost collections of early maps of Tasmania.

Monday 5 February

9:35 – 10:05

Gondwana to Waaia: mapping landscape change in Moira Shire, northern Victoria, from 1840s to 2000

Denis Shephard

This paper will trace the progress of settlement and associated changing land use in the Moira Shire of northern Victoria. Aboriginal people have lived in this part of Australia for at least 40 000 years. European squatters moved onto the central Murray plain in the 1840s. They were followed by selectors and by soldier settlers in the 1870s and 1950s respectively. Today's community is facing serious social and environmental challenges. The paper will proceed chronologically and will show how these changes have been recorded on a wide range of maps. Particular reference will be made to land selection plans and to the information imbedded in them.

Denis Shephard, National Museum of Australia, d.shephard@nma.gov.au

Worked as a farmer in the Waaia district prior to embarking on a career in survey and engineering drafting. For the past 9½ years he has been a curator with the National Museum of Australia. Denis developed the 'Water brings Change' component of the museum's first and most ambitious travelling exhibition *A Changing People A Changing Land*. This examined the changes irrigation brought to the landscape of the central Murray Valley.

Monday 5 February

10:05 – 10:35

Demonstration of *Map Librarian* software

Ian Overton

This presentation will show the *Map Librarian* software being developed by Mapping and Beyond, which allows map libraries to manage their series maps, index them, and make the indexing graphically available on the Web for searching by users.

Ian Overton, Mapping and Beyond, ioverton@mappingandbeyond.com

Monday 5 February

11:00 – 11:30

The mysterious Eastland uncovered

Michael Ross

Abel Janzoon Tasman set sail from Batavia on 14 August 1642 "to discover the partly known and still unreached South and Eastland" with the intended commercial payoff of establishing "a short passage to Chile". Guided by his pilot major Visscher, super-cargo Gilsemans, and assisted by "110 able men" on the flute Zeehaen and the ship Heemskerck, Tasman embarked on one of the Pacific's most remarkable and well-documented voyages of discovery. For 350 years historians have examined Tasman's official report to the VOC, the maps and illustrations of the voyage by Visscher and Gilsemans, and the records of the VOC, providing a comprehensive analysis of the entire voyage and its context.

Remarkably, while volumes have been devoted to the "Southland", not one sentence has ever explored the multiple references to the mysterious "Eastland". Nor has anyone ever publicly investigated why Tasman's sailing instructions contained very precise latitudinal and longitudinal references.

Although ignored for three and a half centuries, these two factors suggest Tasman and Visscher may have been following a very clear and precise map, towards an accepted eastern Pacific coastline. Evidence, in a contemporary map available to Tasman and Visscher and prepared by an official mapmaker to the VOC, suggests Tasman's voyage was as much a carefully planned voyage of confirmation as it was of exploration. It suggests Tasman and his advisors believed they already knew the broad extent of the "South and Eastland", as well as the probable pathways to Chile, and were primarily looking to confirm their theories.

This map may forever change the way Dutch exploration of Australia, New Zealand and the South Pacific is viewed.

Michael Ross, michael.ross@clear.net.nz

In 1991 Michael was commissioned to prepare the research brief for the official TV documentary celebrating the 350th anniversary of Abel Tasman's encounter with the people of Aotearoa (New Zealand). The resulting document "Strangers" raised as many questions as it answered. This paper addresses two of those questions. Michael earns most of his income as an international consultant in performance measurement and management. The other part of his mind (and a bigger part of his heart) is devoted to his best friend Edi, their children, and the early recorded history of New Zealand.

Monday 5 February

11:30 – 12:00

Australia's first federal election 1901: mapping and naming the electorates in New South Wales

Clive Beauchamp

In 2001, Australia commemorates not only the centenary of Federation but also its first federal election. The Commonwealth Constitution stipulated that the inaugural election had to be conducted according to existing colonial law. Therefore between August and November 1900 the New South Wales Electoral Commissioners created twenty-six federal electorates in preparation for the first election. In a tentative plan they mapped-out the boundaries of the electorates and allocated them all (native) aboriginal names. This initial plan generated reaction from both politicians and communities. In response, some boundaries (especially in the city of Sydney), had to be re-drawn and almost all the native names were changed following amendments made by the NSW Parliament.

Dr Clive Beauchamp, Charles Sturt University, cbeauchamp@csu.edu.au

Holds undergraduate and post -graduate degrees from the University of London and a PhD from the University of NSW. Spent thirty-three years teaching in tertiary institutions in Australia, UK, and USA as well as spending seven years in local government administration. Current research interests include Federation History, Local History, Biographies of Politicians and The Politics of Gun Control - USA. At present Academic Associate at Charles Sturt University, Bathurst, NSW.

Monday 5 February

12:00 – 12:30

Using Maury's 'Whale Charts' and other resources to determine the extent and presence of right whales in the waters around Tasmania

Dale Chatwin & Robert Warneke (presented by Robert Warneke)

This paper discusses a work in progress and builds on a presentation given at a previous Australian Map Circle Conference and published in *The Globe* under the title 'The Whale Charts produced by Matthew Fontaine Maury' (No. 44, 1996). At the AMC conference the author posited the idea that one day the information contained in the charts might be able to be used with other resources to examine the characteristics of certain whale stocks prior to their commercial exploitation. More by chance than planning a dataset has since been located which when used in combination with other researches and local knowledge might provide some indication of the extent of right whale catches in the waters around Tasmania in the early years of Tasmanian whaling.

Dale Chatwin, Australian Bureau of Statistics, dale.chatwin@abs.gov.au

Director of Library Services at the Australian Bureau of Statistics. His interest in whaling extends back to when he worked at the National Library of Australia. He has written two whaling theses. His article, 'The Whale Charts produced by Matthew Fontaine Maury', was published in *The Globe* (No. 44, 1996).

Robert Warneke, Warneke Marine Mammal Services, warneke@southcom.com.au

Principal of Warneke Marine Mammal Services. He holds a MSc. and spent some 34 years with Victorian Fisheries & Wildlife with a particular interest in seals. He has a parallel interest in whales and whale strandings and lives in Tasmania. Robert will be presenting the paper.

Wednesday 7 February

9:00 – 9:30

The evolution of Australia's state boundaries and the prospects for change

Victor Prescott

Apart from the creation of Canberra and Jervis Bay and the shuffling of the Northern Territory from South Australia to the Commonwealth, the land boundaries of Australian states were settled by 13 March 1862. There are several provisions in the Constitution for creating States or altering the boundaries of existing States but they have not been used except in the case of the creation of the ACT including Jervis Bay. However, on one occasion the constitution was finessed in respect of changing the boundaries of a State. The desirability and possibility of changing some of the existing land boundaries of States is considered.

The marine boundaries of States were mainly organised after 1967 in respect of mineral exploration and fishing. The construction and variation of maritime boundaries seems to be a much simpler matter than similar activities for land boundaries.

Victor Prescott, johnrvp@unimelb.edu.au

A political geographer who retired as Professor Emeritus from the University of Melbourne in 1996. Most of the research during his career before that centred on international boundaries on land and sea and that pattern has continued since his retirement. He has also continued to be used as an expert witness in boundary cases before the International Court of Justice and the United States Supreme Court.

Wednesday 7 February

9:30 – 10:00

Mapping the Great Barrier Reef

Leon Jackson

Land-based mapping programs are well documented and naval charts have been with us for a century or three. The Great Barrier Reef Marine Park Authority (GBRMPA) faced quite a challenge when it commenced operations in 1976, due mainly to the inadequate reef mapping covering its vast area of responsibility. At 347 800 sq km, the Great Barrier Reef World Heritage Area is about the same size as Victoria and Tasmania combined.

In 1976, charts of the area were good for navigating between reefs but lacked the reef detail required for micro scale planning and management of individual reefs (or parts of reefs). At the other end of the scale, planning and management regimes were later developed for areas in excess of 140 000 sq. km. The primary planning and management tool developed by the agency was Zoning, involving the depiction of coloured zones on maps regulating the various activities permitted within each zone.

Building on earlier work by the Department of Mapping and Surveying (Qld) and James Cook University (Qld), GBRMPA was in a position to commence its 1:250 000 Zoning Map Series by the early 1980s. Reefs were depicted with greater detail and accuracy than ever before but the issue of control (or comparative lack of it) meant that spatial accuracy was never going to be a strong point of the series.

With the adoption of digitally-based Geographic Information Systems, the Authority's challenge today is to re-map the same area but with a spatial accuracy suited to usage in hand-held GPS receivers as well as on-board navigation systems. User demands and enforcement requirements dictate GBRMPA's current direction in utilising relatively cheap LANDSAT 7 imagery as the primary data source for mapping the Great Barrier Reef into the new millennium.

Leon Jackson, Great Barrier Reef Marine Park Authority, l.jackson@gbrmpa.gov.au

Leon's early training was acquired through the rigours of the School of Military Survey (Bonegilla). Ten years military service saw involvement in many mapping projects and activities. Six years with the Australian Surveying and Land Information Group followed with Leon participating in such milestone events as the production of the last map in the Australian 1:250 000 National Topographic Mapping Series and the commencement of the Australian Geographic Data Base (1:250 000) program – known these days as Geodata. Leon has worked with the Great Barrier Reef Marine Park Authority in Townsville for the past five and a half years. In his position as their sole cartographer he is involved with the whole gamut of cartography, from simple line maps for scientific reports through to reef-wide mapping programs suitable for public consumption.

Wednesday 7 February

10:00 – 10:30

Demonstration of the *Online Directory of Australian Map Collections*

Maura O'Connor

This presentation will show the working of the *Online Directory of Australian Map Collections*, which will be hosted by the National Library of Australia and allow map librarians to directly update themselves the information about their own collection.

Maura O'Connor, National Library of Australia, moconnor@nla.gov.au
Map Curator, National Library of Australia.

Wednesday 7 February

11:00 – 11:30

Martellus's "Dragon's tail": a pre-Columbian map of South America?

Bill Richardson

The world maps of Henricus Martellus Germanus of c. 1489 show an extra, non-existent SE Asian peninsula. For over a decade three Argentine writers and one Colombian one have been proclaiming as proven a claim that this feature is really a portrayal of South America and that Ptolemy's Sinus Magnus is a mis-scaled portrayal of the Pacific. As their claim has been made only in Spanish, it is not widely known. The late Professor Dilke proclaimed the theory 'bizarre', but said it could 'not be entirely ruled out'. It will be examined in detail.

Bill Richardson, fax 08 8388 9996

Until his retirement, Bill was Reader in Spanish and Portuguese at Flinders University. Since 1987 he has been Visiting Scholar there. Research published in Australia, the USA, the UK and Portugal has been aimed at showing the vital importance of the critical examination of inscriptions on early maps and charts, as well as place names in sailing directions and travellers' accounts.

Wednesday 7 February

11:30 – 12:00

Electoral Matters and Geographic Information Systems (GIS)

Eamonn Clifford

This presentation will cover the development of Geographic Information Systems to meet the needs of the electoral community. Initial GIS applications were aimed at solving the distribution (districting) problem, then the mapping problem and now the management of the electoral roll. The presentation will cover the history of the issues, the application of technology and the fortuitous development of national spatial data sets.

**Eamonn Clifford, NSW Dept of Information Technology and Management,
cliffore@ditm.nsw.gov.au**

Senior Research Officer with Land and Property Information, NSW Department of Information Technology and Management. He has worked in surveying and mapping for the NSW Government since coming to Australia in 1975. He has been involved primarily in R&D computer applications in mapping and GIS and was also co-editor of the *Atlas of New South Wales* (1984-7). Current projects include the application of GIS to electoral redistributions and a pilot study on the management of the electoral roll.

Wednesday 7 February

12:00 – 12:30

Seafarer Geotiff

Bob Walker

The Australian Hydrographic Service (AHS) continues to develop products in line with the needs of industry. In 1997 the AHS, after 75 years of providing mariners with paper navigation charts, released its first digital navigation product – *Seafarer*[®] RNC (Raster Nautical Chart).

Since then a number of products have been released under the *Seafarer*[®] name. The latest in this line is *Seafarer*[®] *Geotiff*, the complete set of Australian Navy navigation charts in geographically referenced tagged image file format. This is a non-navigation product suitable for use in Geographic Information Systems and other image viewing platforms.

Seafarer[®] *Geotiff* has been well received by industry engaged in planning, research, exploration and education and incorporated into such diverse applications as search and rescue, whale migration and oil and gas pipeline planning.

The presentation will focus on the development and applications for this product.

Bob Walker, Australian Hydrographic Office, Bob.Walker@defence.gov.au

Marketing Manager for the Australian Hydrographic Service (AHS). He first joined the Office in 1982 after 12 years as a cartographer/photogrammetrist with the Central Mapping Authority (now LPI). His formal qualifications are in cartography, however he has more recently been involved in the development of the commercial front-end for the organisation. Following the implementation of the business cell he undertook the role of Marketing Manager responsible for the commercial marketing of the organisation and its products and services.

Bob was also instrumental in the timely development and release of the AHS's first digital product, *Seafarer*[®] RNC (Raster Nautical Chart).

– Notes –