BIBLIOGRAPHY OF THE HISTORY OF
AUSTRALIA’S NATIONAL TOPOGRAPHIC
MAPPING AGENCIES

COMPILED BY

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Introduction

This essay includes an explanation of the political background underlying Australia’s mapping and surveying arrangements which is pertinent to understanding how to conduct a bibliographical search.

The continent of Australia was settled by the British in 1788 when they founded the colony of New South Wales. Before 1901 the British colonies of New South Wales, Tasmania, Western Australia, South Australia, Victoria, and Queensland existed as separate colonies, each with their own government. In 1901 the Commonwealth of Australia was created by mutual consent of the colonies and Britain. A history of Australian national topographic mapping bodies therefore includes information relating to both the states and commonwealth mapping bodies.

Mapping undertaken during the early nineteenth century was basically focussed on surveys for land grants, roads, civil projects, town sites, ports and coastal surveys. Topographic mapping was low on the list of priorities. The first attempts at topographic mapping were carried out by Thomas Mitchell, Surveyor General of New South Wales in 1834 but the same story of pressures of land settlement occurs for all the states. Essentially then topographic mapping by government is largely the story of the twentieth century.

Scope

This bibliography’s core focus is on twentieth century events following unification of the colonies in 1901 into one nation, Australia. The end point is related to the cessation of hard copy map printing and the appearance of digital technology permitting the storage of technical map data in data banks accessible by computer. In subject content there is a blurring of surveying into mapping as the early history of mapping is related to the technical problems facing surveyors in establishing ground control. The trigonometrical survey of New South Wales is used as an example. To this extent the bibliography is selective and readers should seek parallels in searching for literature concerning the other states of Australia. In terms of geographical coverage references have been included to the mapping of both Papua New Guinea and the Australian Antarctic Territories which were carried out by Australian national topographic mapping agencies. Biographical information has not been included, readers are referred to Coulthard-Clarks’s *Australia’s Military Mapmakers*, Lines’ *Australia on paper*, Lovejoy’s *Mapmakers of Fortuna: the history of the Army Survey Regiment* and McCarthy’s *Mapmakers of Australia*. 
The Literature

There is a dearth of writing on the topographic mapping of Australia. Four titles stand out and these are by J. D. Lines, C. D. Coulthard-Clark, B. T. Tyson and Valerie Lovejoy. The most comprehensive of these is Lines’ Australia on paper, a substantial work, which ranks with Skelton’s History of the Ordnance Survey and Andrews’ Paper landscape, to mention only two texts on national mapping. Coulthard-Clark writes on the Royal Australian Survey Corps (RASvyC) in his history Australia’s military map-makers: the Royal Australian Survey Corps 1915-96, the emphasis in this text being mainly on the politics, personalities and events. However these two books complement each other very well. A recently released work which was published as this bibliography was completed is Valerie Lovejoy’s Mapmakers of Fortuna, a history of the Army Survey Regiment, the largest unit within the Royal Australian Survey Corps, from its origins in 1932 to its demise in 1996. This history examines the role of the Regiment, its place in the Army and its technological achievements and changing character over this period, within ‘the broader context of social, economic and technological change’. Trevor Tyson’s work The topographical map series of Australia focusses on the maps themselves with many large map extracts of the different series. This title is particularly useful alongside Lines’, Coulthard-Clark’s and Lovejoy’s texts. It should be pointed out, that Tyson’s work appeared in a limited edition of 120 copies and is therefore extremely difficult to locate but the other source for actual map extracts may be found in the Contemporary Cartography section of the journal Cartography.

The most important report material is to be found in the National Mapping Council of Australia’s publications and those of its sub-committees which cover the period 1948-1986. There is much material here covering a long time span which encompasses the golden period of national topographic mapping.

Selected publications of the Division of National Mapping, the national civilian map maker, have been included in this bibliography in lieu of a formal history although Lines’ work fills much of this need. These additional entries for works issued by the Division of National Mapping give some idea of the scope of a national agency’s functions over and above that of performing topographic survey although not all functions are represented. Likewise for the Royal Australian Survey Corps, also a national map maker, much of its work has been related to military activities overseas in times of war as well as in peaceful times to neighbouring countries in the form of development assistance. The Royal Australian Survey Corps annual reports and details of Army map catalogues are included as a guide to their map output. There are also references to many articles by military survey personnel.

Professional journal literature devoted to the subject occurs in the Australian Surveyor (quarterly) from 1928 onwards and prior to that date in the Surveyor, for the period July 1888 to 1927, and in Cartography, (half-yearly) from 1952 onwards. Before this date of 1928 state records and journals should be referred to for the early history of topographic mapping. Most of the literature of this period is more biased towards surveying and the problems of establishing survey control which must underlie topographic mapping. State records do have accounts of early attempts within state boundaries at establishing a trigonometrical network and the annual reports of the New South Wales Lands Department are an example of what might be found if state records are consulted. However
this bibliography has concentrated on post 1900 developments and users seeking material before this date should start with reports of the Lands Departments in each state.

Professional literature in the form of conference papers fills a large part of this bibliography. Among the earliest are the Papers from the congresses of the Australian and New Zealand Association for the Advancement of Science, which followed on from the Australasian Association of the same name and prior to that the British Association. Another source was papers of the Conference of Commonwealth Survey Officers organised by the British Ministry of Overseas Development where Commonwealth countries reported on developments in their respective countries. Similarly the United Nations Regional Cartographic Conferences for Asia and the Far East provided useful material.

With respect to Australian developments it is necessary to know that the Institution of Surveyors Australia (ISA) was founded in 1952, this was through the amalgamation of all the previously independent state Institutes of Surveyors some of which had been in existence since the middle 1800s. ISA Congress papers began to appear from 1954 onwards. The early ones did not appear as Proceedings and appear to have been lost as only a very few ever appeared in a form which guaranteed preservation. Some of these have been preserved in The Australian Surveyor. Thus ISA papers are only generally available from 1969 onwards when the papers were bound for the first time and appeared as Proceedings. The Australian Institute of Cartographers conferences started in 1974 and were held every second year. Occasional joint conferences also occurred between surveyors and cartographers. In 1995 the Australian Institute of Cartographers changed its name to the Mapping Sciences Institute of Australia and papers published after that date at its conferences will be found under the later name. The Globe, journal of the Australian Map Circle also contains papers delivered by personnel from both national map makers at AMC annual conferences. These date from 1973 onwards and issues appear twice a year.

Acknowledgements

Libraries which have been fruitful sources for locating this material have been the National Library of Australia in Canberra, the State Library of Victoria and the Engineering Branch Library of the University of Melbourne Library. My thanks go to staff at those libraries for their assistance in locating and obtaining copies of early material. My particular thanks must be to Maura O’Connor and Roxanne Missingham of the National Library, Joanna McLachlan, Land and Information Librarian at the Land Information Centre, Bathurst, in the New South Wales Department of Land and Property Information (later Department of Information Technology & Management) and John Cain and David Jones at the University of Melbourne Map Library, without whose patience and assistance this task would have taken far longer.

I would also like to acknowledge assistance given by personnel of the Australian Surveying and Land Information Group through Peter Holland, General Manager with regard to the work of its predecessor the Division of National Mapping. Likewise my thanks are extended to Colonel Doug Stedman, Director of Strategic Military Geographic Information and Roger Rees, Map Research Officer DSMGI, Department of Defence for help with RASvyC reports.

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18.9.03
Adams, P. F.


Advisory Committee on Commonwealth Mapping (ACOCM)
see Gillespie, J. G., Intergovernmental Committee on Surveying and Mapping, Spencer, P. A. Allen, A. Max

Allman, J. S. and Steed, J. B.

Allman, J. S. and Veenstra, C.

Anon.
Army’s computer map system leads the world. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1985, 32, 5, 388.


Mapping – Automated mapping systems in Australia / anon. -- In Graphics Technology, May-June 1982, 4-6 : ill. – Refers to the Department of Defence Automap system.

News from the Royal Australian Survey Corps / anon. – In Cartography (Canberra: Australian Institute of Cartographers ), March 1981, 12, 1, 9. – Includes 1: 100 000 mapping program in Victoria (the last sheet published)

On the trigonometrical survey of New South Wales / anon. – In New South Wales Magazine (Sydney: Ralph Mansfield ), Aug. 1833, 46-52. – Discusses purposes of the survey and methods employed and extent covered from the period 1828 to 1831.


Review of T. F. Furber’s ‘The trigonometrical survey of New South Wales, with mention of similar surveys in other Australian colonies’ / anon. --In The Surveyor (Sydney: Institution of Surveyors, New South Wales), 21 Jan., 1898, XI, 1, 5-6.


Army Topographic Support Establishment see McLachlan, Brian

Australia. Army. Directorate of Military Geographic Information

Cartography in Australia. The Royal Australian Survey Corps – the end of an era / Peter A. Jensen. -- In Cartography (Canberra: Australian Institute of Cartographers), Dec. 1996 , 25, 2, 63-64. -- Announces integration of the Corps with the Royal Australian Engineers. Gives a brief outline of the Army’s reorganisation of its survey assets.

Australia. Army. Royal Australian Survey Corps


Automation in computer-assisted cartography. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9th : 1980 : Wellington), v. 2, 122 + brochure. Abstract only. -- The Automap system showing the production path of a topographic map is dislayed on recto and on verso a 1:100 000 map sheet. Some applications of the data base are mentioned. – E/ CONF.72/L.49.


Catalogue of official military maps. Part 2. Territory in S[outh] W[est] P[acific] A[rea], adjacent to Australia / Prepared by the General Staff, and issued under the direction of the Commander in


Catalogue of official military maps / issued by the Directorate of Military Survey. – Melbourne, Vic. : Survey Directorate, Army Headquarters [1957-85]. – v. [loose leaf] : col. maps ; 26 x 33 cm. – Dated from signature of the Secretary to the Dept of the Army and from internal evidence. Kept up to date by supplements. Includes indices of Australia, the Australian states, New Guinea, New Britain, Manus Island, Solomon Islands and Bougainville Island. – Later additions include indices to further series mapping.


1: 100,000 mapping program of Australia. – In Cartography (Canberra: Australian Institute of Cartographers), March 1983, 13, 1, 12-13 : ill., 1 map. – Report by Director of Survey, Army on the last sheet published in the program which was started in 1965. Photograph of Col. N.R.J. Hillier and Kevin Davies, S.G. of Queensland. The map shows the sheet coverage of the continent by RASvy Corps.


Symbolization all series (SYMBAS) / Australian Army. – [Canberra, A.C.T.]: Department of Defence, (Army Office), 1978. – v. : ill. (part col.), maps ; 33 cm. – ISBN 0642904545. – Includes symbols for topographic maps, conventional signs employed in topographic drawing in addition to aeronautical and hydrographic symbols.


Australia. Army. Royal Australian Survey Corps. Army Survey Regiment see also Lovejoy, Valerie. The mapmakers of Fortuna : a history of the Army Survey Regiment

Australia. Army. Royal Australian Survey Corps. History Committee

Letter to the Editor, Australian Surveyor / from T.C. Sargent for the History Committee, Royal Australian Survey Corps re review by Associate Professor Terry Birtles of 'Australia on Paper'. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1993, 38, 2, 147-151. see also Birtles, Terry

Australia. Department of External Affairs see Bayliss, E. P. and Cumpston, J. S.

Australia. Department of Home Affairs. Lands and Survey Branch


Australia. Department of National Development. Regional Development Division. Growth Centres Program Branch

Some effects of operating a self-contained unit of government employment at a non-metropolitan location : the impact of relocation from Sydney to Bathurst on the operation of the N[e]w S[outh] W[ales], Central Mapping Authority. – Canberra, A.C.T. The Department, 1979. – 22 p. ; 29 cm.

Australia. Department of the Interior see Bayliss, E. P. and Cumpston, J. S.

Australia. Department of the Interior. Survey Branch

Report of mapping activities / Department of the Interior, Survey Branch. – [Canberra, A.C.T.]: The Office, 1974-85. – v. ; 30 cm. – Annual. – Details surveys and maps produced on an annual basis. – Later title: Australian Survey Office. Statement of mapping activities. see also Australian Survey Office, Johnston, F. M.

Australia. Division of National Mapping


Air photographs and related topics / Division of National Mapping. – Queanbeyan, N.S.W. : Department of National Development, Division of National Mapping. – v. : maps ; 26 cm. – Shows map and photogrammetric coverage of Australia between 1975-78.

Antarctica : pictorial index of Australian mapping activities / prepared by the Director of National Mapping. – Canberra, A.C.T. : Division of National Mapping, 1960-1966. – v. : maps. – Also appears under the titles: Antarctica: pictorial index of activities. – Antarctica: pictorial index of air photography and mapping.


Application of techniques in automated cartography / Division of National Mapping, Department of Minerals and Energy and Department of Engineering Physics, Australian National University. – In Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (7th:
1973 : Tokyo), 355-360. – Substantial improvements can be achieved using the computer for repetitive work. – E/CONF.62/L.44.

see also MacLeod, I. D. G., Fryer, J. G. and Smith, D. R.


Australia air photographs (supplement) / Division of National Mapping. – Queanbeyan, N.S.W.: The Division, 1980. -- 2 col. maps ; 30 cm. – Leaflet no. 9. -- Leaflet updated as work progresses.

Australia bathymetric and coastline maps / Division of National Mapping. – [Queanbeyan, N. S. W.]: The Division, [1980]. -- [2 p.]: 4 fig., 1 col map ; 30 cm. – Leaflet no. 6. -- Leaflet updated as work progresses.

Australia general reference and thematic maps, 1:1 000 000 and smaller scales including Atlas of Australian Resources / Division of National Mapping. – Belconnen, A.C.T.: The Division, 1987. -- [4 p.]: 4 col. figs. -- Includes references to 10, 5 , 2 ½ and 1 million maps. – Leaflet no. 5. -- Leaflet updated as work progresses.

Australia 1:50 000 & 1:25 000 topographic maps including obsolescent 1:63 360 series / Division of National Mapping. – [Queanbeyan, N.S.W.]: The Division, 1979. -- [4 p.]; 30 cm. – Leaflet no.1. – Supersedes in part Maps of Australia and Australian territories. -- Leaflet updated as work progresses.

Australia 1:250 000 topographic maps / Division of National Mapping. – Belconnen, A.C.T.: The Division, 1978. -- [1 p.]: ill., 1 col. map ; 30 cm. – Leaflet no.4. -- Leaflet updated as work progresses.

Australia photomaps / Division of National Mapping. – Queanbeyan, N.S.W.: The Division, 1980. -- [1 p.]: ill., 2 col. maps ; 30 cm. – Leaflet no. 10. -- Leaflet updated as work progresses.


The Australian Landsat Station / Division of National Mapping, Department of National Resources. -- Canberra, A. C. T.: Australian Landsat Station, [1985?]. – ii, 18 p.: col. ill., col. maps ; 30 cm. – Information brochure on the facility, the satellite imagery received and its applications.


Digital topographic mapping in the Division of National Mapping. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (10th : 1983 ; Bangkok), v. 2, 443-448 : 2 figs. – In 1977 the DNM decided to convert to digital techniques. The objective was to decrease the cost of fair drawing and reduce production time. An AUTOMAP from Systemhouse Ltd. (Canada) was installed in 1981. – E/CONF.75/L.3.

East and south-central Australia 1:100 000 topographic maps / Division of National Mapping. – Belconnen, A.C.T. : The Division, 1985. – [1p.] : 3 col. maps ; 30 cm. – Leaflet no.2. -- Supersedes in part Maps of Australia and Australian territories. -- Leaflet updated as work progresses. Four colour reproduction. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9th : 1980 : Wellington), v. 2, 250. – Abstract only. – Possible due to improved production techniques without losing the quality of the information or the aesthetic appearance. To be used for the National Topographic Map Series at 1:100 000 scale. – E/CONF.72/L.30.


High altitude wide angle photography / anon. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9th : 1980 : Wellington), v. 2, 110-111. – Abstract only. – The potential of wide angle high altitude photography flown along same flight lines as original lower level superwide angle photography enables retention and utilisation of much of the established control. Equipment listed. – E/CONF.72/L.36.


is capable of obtaining ranges to satellites with 3 cm. precision. System description and applications provided. – E/CONF.75/L.9.
Notes on the application of satellite imagery to topographic, bathymetric and land use mapping in Australia / collated by the Division of National Mapping, Canberra – In Cartography (Canberra: Australian Institute of Cartographers), July 1976, 9, 4, 217-222 : 2 figs., 2 tables. – MSS imagery from Landsat 1 being assessed for usefulness at the 1: 250 000 scale.
Pictorial index of air photography / prepared by Director of National Mapping, Department of National Development. – Canberra, [ A.C.T.]: Division of National Mapping, 1959 –1966. – 10 col. maps ; 34 x 39 cm. – Annual. – At head of title: National Mapping Council of Australia. Also appears under the title: Pictorial index of activities. – Chiefly map indexes showing mapping, surveying and aerial photogrammetry carried out during the year.
Reader’s Digest atlas of Australia / produced in conjunction with the Division of National Mapping, Department of National Resources, who prepared the maps ; edited and designed by Readers Digest Services Pty. – 1st ed. – Sydney, N.S.W.: Readers Digest Services, 1978. – 287 p. : col. ill., 143 col. maps ; 40 cm. – Other title: Atlas of Australia. -- Scale of most maps 1:1 000 000. Includes bibliogr., references and index.


Revision cycle forecast model / anon. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9th : 1980 : Wellington), v. 2, 109-110. – Abstract only. – Computer modelling to assign a hierarchical rating for each published map. Maps are then prepared according to budget available. – E/CONF.72/L.34.


A simplified method of relief drawing to supplement contour lines / presented by Australia. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (6th : 1970 : Tehran), v. 2, 272-274 : 3 figs. – Describes techniques used in Division of National Mapping production of 1:100 000 scale series, difficulties of training staff in use of the airbrush in photo-interpretation require a simpler technique. Describes rigorous procedures to be observed – takes three weeks training. – E/CONF.57/ L.47.


Standard symbols for use on maps of Antarctica / The Division see Scientific Committee on Antarctic Research. Working Group on Geodesy and Cartography.


see also National Mapping Council of Australia


see also National Mapping Council of Australia
Australian Geodetic, Topographical and Geological Committee see Institution of Surveyors, Australia

Australian Institute of Cartographers


Meeting with Senator Carrick / anon. – In Cartography (Canberra: Australian Institute of Cartographers), March 1983, 13, 1, 7. -- Reports result of the meeting by the Australian Institute of Cartographers and the Institution of Surveyors, Australia with the Minister for National Development and Energy.


see also Contemporary Cartography

Australian Military Forces see Australia. Army. Royal Australian Survey Corps

Australian Survey Corps see Australia. Army. Royal Australian Survey Corps

Australian Survey Office


see also Australia. Dept. of the Interior. Survey Branch, Australian Surveying and Land Information Group, Waterford, Jack, Wood, Malcolm

Australian Surveying and Land Information Group


AUSLIG service charter. – Belconnen, A.C.T. : Australian Surveying and Land Information Group, 2000. – 7 leaves ; 30 cm. – Discusses AUSLIG’s obligations in surveying and mapping.


Australian Surveying and Land Information Group corporate plan / Australian Surveying and Land Information Group. – [Canberra, A.C.T. ] : Published and produced for AUSLIG by the Public Relations Unit, Department of Administrative Services, [1989]. – 12 p. : ill. ; 30 cm.

AUSLIG topographic data and map specifications for geodata TOPO-250K V@ vector product, geodata TOPO-100K V1 vector product & NTMS series 1:250 000 & 1:100 000 scale topographic map products. – Version 3.3. – [Canberra, A.C.T.] : Australian Surveying and Land Information

Digital data product catalogue AUSLIG / Australian Surveying and Land Information Group, Department of Arts and Administrative Services, [n.d.] – 25 p. : col. figs ; 30 cm. – Includes geodata, map data and information on thematic data. – Updated regularly.


Map data: topographic and digital elevation model (DEM) data index, July 1993 / Australian Surveying and Land Information Group. – Belconnen, A. C. T. : Australian Surveying and Land Information Group, 1993. – 1 fold. sheet. – Contains index map showing availability of digital topographic map data at 1:100 000 and 1:250 000 scales. – On verso availability shown on index map for digital elevation model (DEM) data.


Topographic maps from AUSMAP / Australian Surveying and Land Information Group, Department of Administrative Services. – Canberra, A. C. T. : AUSLIG, 1990. – 1 fold. sheet : col. map. – Index map showing maps available at 1:1 000 000, 1:250 000 and 1:100 000 scale series. – On verso: Alphabetical list of sheet names.

see also Australia. Division of National Mapping, Australia. National Mapping Office, Baker, Graham, Bell, K. C., Bell, Keith and Hobson, David, Carrol, D. and Morse, M. P., Lawford, G. J. and Smith, C. J. H., Lindsay, Grahame, Manning, John, Manning, John and Menzies, R. W., Miller, Ian, Nairn, Alister and Irwin, Bob, Scientific Committee on Antarctic Research, Selkirk, Patricia and Adamson, John, and Wise, P. J.

Baker, Graham

Baker, Graham and Irwin, Bob
A geographical information framework for managing our nation / Graham Baker and Bob Irwin. – In Technical Papers, Mapping Sciences Conference (1996 : Canberra), 116-131. – Refs. 5. – Geographical information regarded as an infrastructure. The National Spatial Data Infrastructure is the model promoted by the Australian and New Zealand Land Information Council (ANZLIC) and the Intergovernmental Committee on Surveying and Mapping (ICSM)

Baker, W. C. and Mathews, H. B.
Mapping / prepared by W. C. Baker and read by H.B. Mathews, Surveyor-General of New South Wales. – In Papers Australasian & New Zealand Association for the Advancement of Science Congress (33rd ? : Aug. 1932 : ? ?), 13 p. ; 33 cm. – Brief history of mapping New South Wales from 1813, with discussion of map projections used, NSW Dept. of Lands map production and survey operations in 1932. Also discusses production of the Australian sheets of the International Map of the World by the Dept. of Works, Lands and Survey Section, Canberra and topographic survey maps produced by the Australian Army.

Barrie, J. K.

Bayliss, E. P. and Cumpston, J. S.

Bayliss, R. V.
The linear standards of the Department of Lands, New South Wales / by R. V. Bayliss. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1957, 16, 5, 312-318 : 1 fig. – Description of equipment in use.
The North Kimberley survey and mapping expedition, 1954 -a review / by R. V. Bayliss. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1957, 16, 7, 452-459 : 1 ill., 1 map – Survey undertaken to assess the potential of the region for pastoral development. The information obtained has been plotted on the inch to a mile mosaics held in the Lands Department, Perth.

see also Morgan, J. F.

Beaver, P.
The map of the nineteen counties and the early trigonometrical surveys of N.S.W. / P. Beaver. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1952, 14, 3&4, 88-97.

Bell, K. C.

Bell, Keith C. and Hobson, David
Transcending the land management borderline : the Australian Surveying and Land Information Group working in the national interest / by Keith Bell and David Hobson, Australian Surveying and Land Information Group. – In Technical Papers, Australian Survey Congress (33rd : 1991: Canberra), Paper 10, 1-9. – Refs. 5. – Examines AUSLIG’s role in co-ordinating land information management and its co-operation with other government and private sector agencies for the Australian national interest.

Birtles, Terry

See also Australia. Army. Royal Australian Survey Corps. History Committee

Blain, A. M.
Mapping Australia / A. M. Blain. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1938, 7, 1, 146-152. – Excerpt from a speech delivered in the House of Representatives in support of the Loan Bill. Summarises the previous conferences and attempts to persuade the government of the importance of mapping the continent. Emphasises the need for a topographic survey.

Böhme, Rolf
Inventory of world topographic mapping / compiled by Rolf Böhme ; English language editor, Roger Anson. – London ; New York : Published on behalf of the International Cartographic Association by Elsevier Applied Science Publishers, 1989-1993. – 3 v. – ill. ; 31 cm. – Includes bibliographical references. – Volume 1 Western Europe, North America and Australasia. – ISBN 0851663576 (v.1)


Bomford, A. G.
The Australian Geodetic Datum and the Australian Height Datum: an Australia-wide reference system / A.G. Bomford. -- In Papers, Australian and New Zealand Association for the Advancement of Science Congress (43rd : 1971 : Brisbane), Section 21, Geographical Sciences G 17, 5 pages : 8 maps. – Since March 1970 Australia has an homogenous levelling network and Australian Geodetic Datum.
Automated cartography in the Division of National Mapping / A. G. Bomford, Assistant Director, Division of National Mapping. – *In* *Cartography* (Canberra: Australian Institute of Cartographers), June 1971, 7, 3, 119-125. – Describes the problem in digitising and generalising data prior to it being drawn automatically by flat bed plotters. Reports on how the Division of National Mapping is acquiring data for future automation.


*Bomford, A.G. and Thomson, W. A.*

Revision of topographic maps / A. G. Bomford and W.A. Thomson. – *In* [Technical Papers], Australian Cartographic Conference (3rd : Oct 1978 : Brisbane), 55-65. – The paper discusses the problems of changing from the production of new maps to the process of revision of existing maps. The 1:100 000 topographic series is used to illustrate the problems.

*Bridge, R. G.*

Digital mapping – a means to an end / R. G. Bridge. -- *In* The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1977, 7, 24-33. – Bibliog.: p 31-33. – “Brief description of one of the first fully integrated computer assisted cartographic systems in the world.”—System used by the RASvyC.

*Bridges, William Throsby see Lines, John D.*

*Brown, A. C. and Mitchell, J. E.*


*Brown, R. L.*

Report to the Minister for the Department of the Army, Commonwealth of Australia, December 1951 / R. L. Brown, Director General, Ordnance Survey. – Only very limited distribution within government. Not seen.

*Bryant, F. L.*

Digital data acquisition, manipulation and output for topographic cartography / F. L. Bryant, Royal Australian Survey Corps. – *In* [Technical Papers], Australian Cartographic Conference (2nd : 1976 : Adelaide), Section 6, 1-26. – The paper discusses the AUTOMAP system in use at the Army Survey Regiment, Bendigo, Victoria.

Photogrammetric planning and adjustment with reference to the 1:100 000 mapping / by F. L. Bryant. – *In* Papers to be presented, Australian Survey Congress (12th : 1969 : Melbourne), 77-83 : 2 fig. – Describes the Royal Australian Survey Corps field control requirements and photogrammetric adjustment and computational procedures undertaken for block adjustment.

*Bullen, F. T. and Durston, P. W.*

Landsat applications by the Division of National Mapping / F.T. Bullen and P. W. Durston. -- *In* Proceedings, Landsat 81, Australasian Remote Sensing Conference (2nd : 1981 : Canberra), Section 2, 2.3.1-2.3.3. – 9 refs. The Division of National Mapping uses Landsat imagery for thematic mapping but also has recently used it for more inaccessible regions of Antarctica and for detecting and mapping previously uncharted shoals in the Coral Sea. – ISSN 0725 0088.
Byrne, P. M. and Honey, F. R.

Campbell, W. D.
A sketch of the progress of the Trigonometrical Survey in New South Wales / W. D. Campbell. – In The Surveyor (Sydney: The Survey Club), Mar. 7, 1894, VII, 50-60 and In April 7, 1894, VII, 79-85.

Cardew, J. H.
Letter to the President of the Institution of Surveyors re the mapping of Australia / J. H. Cardew. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), March 1939, 7, 5, 272.

Carrol, D. and Morse, M. P.
Contemporary Cartography. A national digital elevation model for resource and environment management / D. Carrol and M. P. Morse. -- In Cartography (Canberra: Mapping Sciences Institute of Australia), Dec. 1996, 25, 2, 43-49 : 1 fig. – 7 refs. Describes the Australian Surveying and Land Information Group’s GEODATA 9 SECOND DEM and examines some applications which require detailed elevation data. The paper was originally presented at MAPPING SCIENCES ’96, Canberra, Sept. 1996.

Central Mapping Authority of New South Wales

see also Contemporary Cartography, New South Wales. Land Information Centre
Catalogue of New South Wales digital map data , June 1984 / produced by the Central Mapping Authority. – Bathurst, N.S.W. : Central Mapping Authority, 1984. – 1 col. fold. broadsheet : maps ; 29 cm. – Contains map indexes to precise levelling, geodetic, medium scale digital map data both metropolitan and non metropolitan.
The Central Mapping Authority of New South Wales / Central Mapping Authority, -- Bathurst, N.S.W. : The Authority, 1976. – 16 p. ; 21 cm. – The history and functions of the CMA.

see also Cheeseman, A. J., Rohner, P. and Urban, Frank
The making of a C.M.A. map / Central Mapping Authority. – Bathurst, N.S.W. : The Authority, 1984. – 1 fold. broadsheet ; 23 cm.


Maps of New South Wales – ‘Which map …?’ / produced by the / Central Mapping Authority . – Bathurst, [N.S.W. ] / Central Mapping Authority. – 1 col. fold. broadsheet : 30 ill. (some col.) ; 30 cm. – Contains illustrations of 27 types of map, aerial photographs and triangulation charts and three indexes to coverage at 1:25 000, 1:50 000, 1:100 000 and 1:250 000 scale mapping.

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Child, W.

Clark, C. T.

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**Contemporary cartography; [Division of National Mapping].** -- Bathymetric maps, 1:250 000 bathymetric, Wide Bay / L. G. Turner. -- In Cartography (Canberra: Australian Institute of Cartographers ), Jan. 1974, 8, 3, 136-139 : 2 ill., 1fig. -- A new series designed to cover the Australian continental shelf area.

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Bathymetric surveying and mapping / S. G. Cowling, Senior Surveyor in the Survey Operations
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details of equipment performance. Comments on mapping pp. 63-64. -- AGPS cat. no. 8604776. --
ISBN 0 644 04923 5.

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199-200. – Being a report to the President of the Institution on Commonwealth mapping and surveying.

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Report on Advisory Committee on Commonwealth mapping / by James G. Gillespie. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1961, 18, 6, 326 : 1 col. map. – Map shows sheets published for the 4 mile and 1:250 000 topographic series.


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Australian Geodetic, Topographical and Geological Committee. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Aug. 1928, 1, 46. – Provides the origins of a committee to inform public of the need for surveys of the continent.

Institution of Surveyors, Australia. Australian Survey Committee
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**Institution of Surveyors, Australia. Mapping and Charting Standing Committee**

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A common large scale mapping system for use throughout Western Australia / D. Johnston, Chief Cartographer, Department of Lands and Surveys,[Western Australia]. -- *In* Cartography (Canberra:
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The development of standard mapping in South Australia / G.H.C. Kennedy. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1962, 19, 2, 107-113. – Discusses the 2 inches to a mile series.

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Recent advances in cartography with reference to the drawing and production of the map / M. H. Kilminster. – *In* Proceedings, Australian and New Zealand Association for the Advancement of Science Conference Section P (Geography and Oceanography), August 1962, 1-9. – Describes the drawing, lettering, scribing and printing techniques used in the Department of Lands, New South Wales. – Appears also under the title “The drawing and production of maps’ in Cartography (Canberra: Australian Institute of Cartographers), Mar. 1962, 4, 3, 81-88.

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**Laing, A. W.**

**Lambert, B. P.**

of Commonwealth Survey Officers (8th: 1963: Cambridge), 72-75 : 1 map. – Good evidence that sound primary geodetic survey can be carried out by Tellurometer traversing, if frequent Laplace azimuth control is provided.

Australian geodetic surveys, past, present and future / B. P. Lambert. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1977, 28, 6, 331-339. – 13 refs. Includes discussion on likely mapping changes.


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Geodetic survey and topographical mapping in Australia / B. P. Lambert. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1969, 22, 7, 515-528. – Covers early mapping from 1907, modern mapping to mid 1960s including work under the direction of the National Mapping Council and the Division of National Mapping. Indicates future trends.


The geodimeter and its uses / by B. P. Lambert. [Paper given to the Institution of Surveyors, Australia, 3rd Annual Meeting, Perth, Sept. 1956]. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1956, 16, 4, 213-229 : 6 ill., 12 figs. – Description and explanation of the use of the equipment in Australia where it has only been in use for three years.

The impact of satellites on mapping / B. P. Lambert. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1973, 25, 4, 303-315 : 2 figs., 3 tables. – 6 refs. – Deals primarily with topographic mapping and begins by reviewing the present status of mapping.

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Modern techniques of geodetic and topographic surveying / by B. P. Lambert, Director of National Mapping, Department of National Development, Canberra. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1958, 17,1, 30-41. – Reviews the various techniques in use and forecasts likely future developments in techniques and equipment.


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Appendix headed ‘National Mapping Council of Australia’ gives the Australian Geodetic Datum, Height Datum and Map Grid.


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Review of some research and development activities at the South Australian Lands Department / D. R. Larden, Survey Director, Department of Lands, G. L. Smith and D. M. Grant. – In Technical Papers, Australian Survey Congress (25th : 1983 : Melbourne), 121-134 : 3 fig., 2 tables. – Bibliogr.: 133-134. – Through corporate planning a framework for research is met. Some aspects discussed are aerotriangulation techniques, coastal protection and levelling programs.

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Lea, M. J.

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Problems encountered in the use of Third order levelling for the National Levelling Grid / K. Leppert. – In Colloquium on Control for Mapping by Geodetic and Photogrammetric Methods, University of New South Wales, 22-24 May, 1967, 123-134 : 1 fig. – 4 refs.

Two Australian baselines for the pageos world triangulation / by K. Leppert. -- Canberra, [A.C.T. : Department of National Development], March 1972. – 21 p. : 5 figs., 2 maps. – Bibliogr. p. 21

Lindsay, Grahame


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Lines, John D.

Aerodist in Australia / by J. D. Lines. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1966, 21, 2, 733-751 : 6 ill., 6 figs. – 5 refs. – Reports on Division of National Mapping’s work with Aerodist during 1963-1966 to extend the range of horizontal control and provide aircraft positioning in aerial surveying. – The original paper presented to the 8th Australian Survey Congress, Canberra, April 1965, dealt with work up to 1964.

Application of airborne profile recording to 1:100 000 scale mapping / J. D. Lines. – In Report of Proceedings, Commonwealth Survey Officers Conference (10th : 1971: Cambridge), Pt. I, 204-209 : 4 figs. – Terrain profiling using a contour interval of 20 metres is better suited to areas of cold climate.


see also Australia. Army. Royal Australian Survey Corps. History Committee, Birtles, Terry, Prescott, Dorothy F. and Sebert, L. M.


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Map products and future trends in mapping / J. D. Lines. – In [Proceedings], Australian Cartographic Conference (1st : 1974 : Sydney), 8 p. – J.D. Lines is Assistant Director of National Mapping. – Techniques and products experiencing marked changes reflecting accelerated progress in technology. Keeping abreast is the challenge.


Orthophotography and the 1:100 000 mapping programme / J.D. Lines, Assistant Director, Division of National Mapping, Department of National Development. – In Papers, Australian and New Zealand Association for the Advancement of Science Congress (43rd : 1971 : Brisbane), Section 21, Geographical Sciences G 17, 10 pages : 4 figs. – 2 refs. – Provides a quick and accurate solution to the rectification of aerial photography. Useful as alternative product to conventional line map.


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A method of aerial annotation for 1:250 000 mapping / K. J. Lyons. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1968, 22, 3, 179-184. – As applied to Western Australian mapping.

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Aerial surveying and mapping / H. S. McComb. -- In Queensland Surveyor (Brisbane, Qld.: Queensland Institute of Surveyors), VII, 1, 1926, 6-20.

Mapping Australia / H. S. McComb. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1935, 5, 3, 329-336. -- Reviews attempts made since 1823 to persuade the government of the importance of mapping the continent beginning with a geodetic survey.

MacDonald, C. J.

Map production in Australia / by C. J. MacDonald, Manager, Mercury –Walch Pty Ltd. -- In Proceedings, Australian Survey Congress (14th : 1971 : Hobart), 193-197. -- Identifies the major Commonwealth and State mapping organisations producing maps in Australia and tells how a commercial firm undertakes printing of maps on behalf of the Tasmanian Department of Lands and also Australian Commonwealth and State mapping departments.

MacDonald, D.

Development of photogrammetry in Australia : period up to June 1945 / D. MacDonald, Royal Australian Survey Corps. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1953, 14, 8, 252-256. -- Summary of paper given to the Melbourne Division, Discussion Group on Photogrammetry. -- Deals with the Royal Australian Survey Corps and the Division of National Mapping.

The presentation of relief on maps / D. MacDonald, Royal Australian Survey Corps. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1963, 19, 303-313 : 1 fig. -- Describes the relief portrayal as used in the making of the Royal Australian Survey Corps 1:250 000 topographic map series sheets.

Recent surveying and mapping operations of the Royal Australian Survey Corps / by D. MacDonald. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1963, 19, 404-408. -- Covers mapping operations between 1958 and 1962.

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A short history of the Trigonometrical Survey of New South Wales / J. B. McLean. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1967, 21, 6, 135-143 : 1 fig.

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An automated standard mapping system / R. McLeod, Supervising Drafting Officer, South Australian Department of Lands. -- In Cartography (Canberra: Institute of Cartographers), Jan. 1978, 10, 3, 145-149. -- Outlines the system using Automap for diskfile structure.

McLuskey, D., Bryant, F. L. and Cattell, J. R.


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Coastline delineation by aerial photography / J. D. Madden. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1978, 29, 2, 76-81 : 2 ill. -- Describes programs undertaken by the Division of National Mapping. The 1:100 000 series a problem.

**Manning, John**


**Manning, J. and Evans, M.**

Revision of medium scale topographic maps using space imagery / J. Manning and M. Evans., Australian Surveying and Land Information Group. -- *In* Proceedings, International Society for Photogrammetry and Remote Sensing (16th : 1988 : Kyoto), 13 p. : 5 tables. -- 6 refs. -- It is feasible to plot 1:50 000 and smaller accuracy specifications from SPOT stereoscopic, panchromatic imagery but the ID of features is limited. ID can be improved significantly if multi spectral imagery is used in conjunction with panchromatic SPOT imagery.

**Manning, J. and Menzies, R. W.**


**Melbourne and Metropolitan Board of Works see Middleton, C. E.**

**Middleton, C. E.**

Aspects and trends of photogrammetry in Australia / C. E. Middleton. -- *In* Cartography (Canberra: Australian Institute of Cartographers), Sept. 1955, 1, 2, 56-65 : ill. -- Describes work of the Commonwealth and State agencies in using photogrammetry to produce maps.


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On the need for a topographical survey of Australia / R. B. Montgomery, President, Surveyors Institute. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), May 1928, 1, 51-56. – Compares Australian backwardness in carrying out a topographical survey with other Commonwealth countries.

Morgan, John F.


see also Bayliss, R. V.
Survey integration - a Western Australian concept / presented by J. F. Morgan, Surveyor-General of Western Australia. – In Technical Papers, Australian Survey Congress (16th : 1973 : Canberra), C1-C4 : 2 figs., 2 maps (1 col.) and In Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (7th : 1973 : Tokyo), 2, 292-299 : 2 figs., 2 maps. – Describes history of development of these systems.

Nairn, Alister and Irwin, Bob
The Australian Spatial Data Infrastructure: its current status and future direction / Alister Nairn and Bob Irwin. – In Cartography (Canberra: Mapping Sciences Institute of Australia), June 1997, 26, 1, 1-12. – Bibliogr. : 8 items. -- Two officers of the Australian Surveying and Land Information Group describe status of the infrastructure in which AUSLIG is taking a lead role. Encourages input from all data users to influence the direction in which the infrastructure develops.

National Mapping Council of Australia

Main resolutions, adopted during the period 1945-1965 / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of National Development. – Canberra, [A.C.T.] : Division of National Mapping, 1965. – 21, 4 p. : 1 fold. map ; 26 cm.


Technical Sub-Committee. Description based on 1974. Part 3 is a merger of the same meeting’s Technical Sub-committee proceedings: Part 3A (General), Part 3B (Field surveys), Part 3C (Aerial photography and photogrammetry) and Part 3D (Cartography).


see also Manning, John

National Mapping Council of Australia. Technical Advisory Committee. Meeting

National Mapping Council of Australia. Technical Sub-Committee. Meeting


New South Wales. Department of Conservation and Land Management
Annual report / Department of Conservation and Land Management. – Sydney : The Department, 1991/92-1993/94. – 2 v. ; 29 cm. – Contains details of map production. – In March 1995 the New South Wales Department of Land and Water Conservation was created incorporating the former agencies of the Department of Conservation and Land Management.

New South Wales. Department of Information Technology and Management
Annual report / Department of Information Technology and Management. – Sydney : The Department, 1998/99 – . – various pagings ; 29 cm. – Contains details of map production.

New South Wales. Department of Land and Water Conservation

New South Wales. Department of Lands

Catalogue of maps and plans published by the Department of Lands, Sydney, New South Wales. – [Sydney]: Govt. Printer, 1891-

Descriptive catalogue ; maps, photomaps & aerial photographs / Department of Lands. – Sydney : The Department, 1967. – 13 p. ; 23 cm. – Includes three col. maps and three black and white showing different products.


relating to mapping activities. In 1991 the Department of Conservation and Land Management was created incorporating the former agencies of the Department of Lands.


New South Wales. Department of Local Government and Lands


Annual report of the Department of Local Government and Lands. – Sydney, N.S.W. : The Department, 1982-1990.

New South Wales. Government Mapping Investigation Committee (Allen, A. Max, chairman)


New South Wales. Land and Property Information

New South Wales topographic map catalogue / Land and Property Information. – Bathurst, N.S.W. : Land and Property Information, 2001- . – 1 col. fold. broadsheet : maps ; 22 cm. – Annual. -- Contains index maps to 1:25 000, 1:50 000, 1:100 000, 1:250 000 topographic map series with marginal index to place names.


New South Wales. Land Information Centre

Map and data selection guide / Land Information Centre. – Bathurst, N.S.W. : Land Information Centre, Department of Conservation and Land Management, 1993. – 1 col. fold. broadsheet : 7 ill. ; 29 cm. – Another issue for 1998. – Guide to maps and services.

New South Wales catalogue ; medium scale mapping 1:25 000, 1:50 000, 1:100 000 / Land Information Centre. – Bathurst, N.S.W. : Land Information Centre, Department of Conservation and Land Management, 1992-96. – 1 col. fold. broadsheet : maps ; 29 cm. – Irregular, only 4 issues none in 1994. – Shows topographic map coverage by map indexes. -- Earlier title: Licatalogue 1992.

New South Wales map catalogue / Land Information Centre. – Bathurst, N.S.W. : Land Information Centre, 1989-1990. – 1 col. fold. broadsheet ; 29 cm. – Two issues only.

see also Central Mapping Authority of New South Wales, New South Wales. Land and Property Information, New South Wales. Department of Lands and Paxton, Ian

New South Wales State Mapping Advisory Committee

New South Wales mapping and spatial data. – [Sydney?], N.S.W. : NSW State Mapping Advisory Committee, -2000


New South Wales. Surveyor-General’s Department

Annual report / Surveyor-General’s Department. – Bathurst, N.S.W. : The Department, 1997/98. – 100 p. ; 29 cm. – The Surveyor General’s Department was created Jan 1998 as a merger of the Office of the Surveyor General and the Land Information Centre and abolished April 1999. Its functions were transferred to the Department of Information Technology and Management.

Northern Territory. Department of Lands. Mapping and Information Division
Statement of mapping activities / Mapping and Information Division, Northern Territory of Australia. – [Darwin, N.T.] ; Dept of Lands, 1986- . – v. : maps ; 30 cm. – Previously issued by the Survey and Mapping Division, Department of Lands. -- ISSN: 0819-2367.

Northern Territory. Department of Lands. Survey and Mapping Division
Northern Territory map index, 30th June, 1983 / Survey and Mapping Division. – [Darwin : Department of Lands, Survey and Mapping Division], 1983. – 51 leaves : col. maps ; 21 cm. – Contains map indexes to 1:500, 1:1 000, 1:2 400, 1:2 500, 1:5 000, 1:10 000, 1:500 000 series maps and alphabetical lists of map sheet names.


Northern Territory. Department of Lands and Housing
Northern Territory map index / [Survey and Mapping Division]. – Darwin, NT. : Department of Lands and Housing. – v. ; 29 cm. – From 1982 issued by the Department of Lands, Survey and Mapping Division. – Description based on 1978

Northern Territory. Department of Lands and Housing. Mapping and Information Division.
Northern Territory index to large scale mapping 1987 / produced by the Department of Lands and Housing, Mapping and Information Division. – Darwin, N.T. : Department of Lands and Housing, Mapping and Information Division, 1987. – 1 fold. broadsheet : maps ; 21 cm. – Contains index maps to the 1:25 000, 1:10 000, 1:5 000 and 1:2 500 series both topographic and cadastral.

Northern Territory. Department of Mines and Energy
Cross-index of 1:100 000 maps of the Northern Territory. – Darwin, N.T. : Department of Mines and Energy, [n.d]. – 41 leaves : 2 maps ; 21 cm. – Contains three listings arranged by DME sheet number, alphabetically by sheet name and by NATMAP number. Each listing is cross referenced to the other two.

Northern Territory. Land Information Division

Northern Territory see also Australian Survey Office, Helyar, Geoffrey, Hillier, N. R. J., Hunt, J. F.

Oaten, Greg
Digital map data / Greg Oaten. -- In The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1993, 38, 1-6 : 2 figs. -- Discusses the different types of digital data used by the Royal Australian Survey Corps.

O'Donnell, P. W.
Bathymetry – the decade ahead / P. W. O’Donnell. -- In Technical Papers, Australian Congress of Surveying and Cartography (1st : 1982 : Canberra), and Australian Cartographic Conference (5th : 1982 : Canberra), 81-83. – 10 refs. -- The status of the Division of National Mapping’s bathymetric surveying of Australia’s continental shelf is briefly examined and the trends which will affect future production are discussed.


Paxton, Ian

Payne, John K. and Lawler, Peter G.
Revision of 1:1 000 000 scale topographic maps using satellite imagery / John K. Payne, Division of National Mapping and Peter G. Lawler, Division of National Mapping, Department of Resources

Percival, A.
The need for a geodetic survey of Australia / A. Percival, Director of Commonwealth Lands and Surveys. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Jan. 1928, 1, 49-61. – Includes two pages of discussion. An introductory paper to the state of geodetic survey prior to the establishment of a Commonwealth national topographical agency.

Poate, F.

Prescott, Dorothy F.

PSMA Australia Limited
Annual report /PSMA Australia Ltd. – Deakin, A.C.T. “PSMA Australia, 2002-. – v. : ill. ; 20 cm. – The annual report of the Public Service Mapping Agencies. – ISSN 1447-3453.

Queensland. Department of Geographic Information

Queensland. Department of Lands

Queensland. Department of Mapping and Surveying


Orthophotomapping for the market place: the Queensland experience. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (10th: 1983 : Bangkok), v. 2, 228-240 : 2 figs. – The advantages of OPMs are maximised in the larger scale product, 1:10 000 or larger, with minimal enhancement. Procedure for production described. – E/CONF.75/L.46 and E/CONF.75/L.46/Add.1.

Pictorial index of survey and mapping activities to 30th June / prepared and published by the Department of Mapping and Surveying and Office of the Surveyor General. – Brisbane, Qld. : The Department, 1979-82. – 4 v. : maps ; 30 cm. – At head of title: Queensland Surveying and Mapping Advisory Council. Also issued with same title as a microfiche.

Queensland cost sharing mapping scheme / Dept. of Mapping and Surveying. – In Technical Papers, Australian Congress on Surveying and Mapping (1st: 1982 : Canberra) and Australian Cartographic Conference (5th: 1982 : Canberra), 69-70
Technical bulletin. – [Brisbane, Qld.] : Department of Mapping and Surveying. Office of the Surveyor-General, 1975-. – v.; 33 cm. – Each issue has a distinctive title. – No. 1-

see also Collins, Linda M., Serisier, J. M., Skitch, R. F. and Lambert, M. S.

Queensland Government Map Shop
Queensland sunmap guide. – [Brisbane, Qld.] : Sunmap Centre, Queensland Government Map Shop, 1986. – 1 col. fold. broadsheet : maps ; 24 cm. – Contains index maps to topographic, tourist, orthophoto, cadastral, and parks maps as well as maps of the Mines Department and charts of the Marine and Harbours Department.

Queensland. Lands Department
Sunmap guide to topographic maps, Queensland, Australia. – [Brisbane, Qld.] : Department of Lands, 1994. – Ed. 3. May 1994. – 1 col. fold. broadsheet : maps ; 21 cm. – Contains index maps to the 1:1 000 000, 1:250 000, 1:100 000, 1:50 000, 1:31 680, 1:25 000 and 1:10 000 scale series.

Queensland. Survey Office

Descriptions, lists and diagrams of published maps and air photos, Queensland / published by direction of the Surveyor General. – Ed. 2. 1975. – [Brisbane, Qld.] : Survey Office, 1975. – 1 col. fold. broadsheet : maps ; 24 cm. – Contains index maps to cadastral and topographic map series. Scales for topographic series at 1:25 000, 1:31 680, 1:50 000 and 1:100 000.

Queensland Surveying and Mapping Advisory Council
Catalogue of Queensland maps to June 1985 / prepared by Department of Mapping and Surveying. – Brisbane, Qld. : Queensland Surveying and Mapping Advisory Council. – v., 280 p. : col. maps. – Covers all departments producing maps in the state. – ISSN 0811 3793.


Queensland see also Fitzgerald, L., Johnston, F. M.

Quilty, Patrick

Quinlan, Cecil Verdun
Australian map makers : born together the R. A. A. F. and Australian Survey Corps are first cousins. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1943, 9, 7, 266-269 : 2 ill. – Early history of the Corps and first surveys in Victoria at 1:63 360 and 1:31 680.

Raisbeck, J. J.
A short history of the military survey of Australia, 1907-36 / J. J. Raisbeck. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1937, 6, 7, 334-337 : 2 ill.

Rassaby, H. S.

Reilly, S. E.

Richardson, Jack E.
Review of Australia’s topographic mapping facilities : report to the Chairman of the Public Service Board, Canberra, July 1986. – Canberra, [A.C.T.] : AGPS, 1986. – v. – Considers the current and planned Commonwealth topographic programme; the mapping programmes of the States; the resources available to the Division of National Mapping and the Royal Australian Survey Corps; and the cost structures of these two organisations.

Rimington, G. R. L., McCarthy, F. E. and Robinson, R. A.
Application of Shoran to Australian mapping / G. R. L. Rimington, F. E. McCarthy and R. A. Robinson -- In Cartography (Canberra: Australian Institute of Cartographers ), Dec. 1954, 1, 7-20 : ill., 10 fig. – Australian use as adopted by the National Mapping Office.
Robin, G. A.
Australia an unmapped continent: bearing on national defence / G. A. Robin. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1933, 4, 476-478. – Comments on areas mapped and sheet coverage after twenty years of defence mapping. The pressing need to rouse public conscience of the necessity for maps for defence.

Roelse, A., Granger, H. W. and Graham, J. R.

Rohner, P.
Die Central Mapping Authority (CMA) ; die Landestopographie von New South Wales, Australien / P. Rohner in Vermessung Photogrammetrie Kulturtechnik =Mensuration Photogrammétrie Génie rural (Zurich) Jan. 1980, 80, 1, 7-10 : 2 ill., 1 map. -- Covers the period 1947-78 of the CMA.

Royal Australian Air Force
Aeronautical chart catalogue including topographical survey maps / prepared under the direction of the Department of Defence (Air Force Office). – 2nd ed. – Melbourne: Aeronautical Information Section, Royal Australian Air Force, [1971-88]. – v. -- (loose leaf) map indexes, some folded; 30 cm. – Includes 7 sections in which are Section 4. Topographic charts and Section 7. Topographic survey maps. -- Section 7 contains alphabetical lists of map sheets and map indexes.


Royal Australian Engineers see Vance, T. A.
Royal Australian Survey Corps see Australia. Army. Royal Australian Survey Corps

Sargeant, Kalen
Map completion techniques for small scale mapping – The National Topographic Map Series 1: 100 000 and 1: 250 000 / Kalen Sargeant. – In Surveying Australia (Canberra: Australian Surveying Association), Sept. 1984, 6, 3, 23-25. – Paper presented to the 9th National Surveying Conference. -- Deals with use of aerial photography for updating series mapping by the Division of National Mapping.

Sargent, T.C.

see also Lines, J. D. Letter to the editor, Australian Surveyor

Scientific Committee on Antarctic Research


Catalogue of topographic maps, aeronautical and hydrographic charts of Antarctica / compiled on behalf of Scientific Committee on Antarctic Research. – 1st ed. – [Canberra, A.C.T.: Division of National Mapping, Department of National Development], 1961. – 90 p. : tables; 22 x 33 cm. – Kept up to date by Amendment sheets (processed).


see also International Council of Scientific Unions. Working Group on Geodesy and Cartography for further issues of the catalogue.

Scientific Committee on Antarctic Research. Working Group on Geodesy and Cartography
Proposed standard symbols for use on maps of Antarctica / compiled on behalf of the Special Committee on Antarctic Research. – Canberra, [A.C.T.] : Division of National Mapping, Department of National Development, 1960. – 8 p. ; 25 cm.

Sear, W. J.
One in a million / W. J. Sear, Chief Drafting Officer, Division of National Mapping. -- In Cartography (Canberra: Australian Institute of Cartographers), 1964, 5, 3&4, 55-58. – Reviews the history of various maps published by the Division at the 1:1 000 000 scale.
Topographic map drawing / W. J. Sear, Chief Cartographer, Division of National Mapping. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Dec. 1958, 17, 239-251: 9 figs. – A lecture delivered to the Institution of Surveyors (N.S.W. Division) giving a description of the methodology employed in the Division of National Mapping.

Sebert, L. M.

Seidel, P.
Levelling in New South Wales since WWII / P. Seidel. – In Colloquium on Control for Mapping by Geodetic and Photogrammetric Methods, University of New South Wales, May 22-24, 1967, Paper 8, 135-145 : 1 fig.

Selkirk, Patricia and Adamson, Don

Serisier, J. M.
Survey administration in Queensland – a decade in retrospect / J. M. Serisier, Surveyor-General and K. J. Davies, Director, Division of Technical and Administrative Services, Department of Mapping and Surveying. – In Technical papers, Australian Survey Congress (23rd : 1981 : Sydney), 159-164.

Skitch, Robert F.
Topographic mapping: where do we go from here? / Robert F. Skitch, Department of Mapping and Surveying, Queensland. -- In The Globe : journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne ), 1987, 28, 37-50 : 7 maps. – Includes Appendix with 7 index maps showing status of mapping for Australia at scales from 1:25 000 to 1:250 000 by federal and state mapping authorities.

Skitch, R. F. and Lambert, M. S.
Queensland’s topographic map series / R. F. Skitch and M. S. Lambert. -- *In* Cartography (Canberra: Australian Institute of Cartographers ), June 1990, 19, 1, 61-65 : 2 figs., 1 col map. – Describes the 1:25 000 mapping program.

Smalley, G. R.

Smith, C. J. H.

South Australia. Department of Environment and Natural Resources

see under South Australia. Department of Lands for earlier issue

South Australia. Department of Lands

see under South Australia. Department of Environment and Natural Resources for later issue

South Australia. Department of Lands. Mapping Branch
Index of maps / Department of Lands, Mapping Branch. – Adelaide, South Australia : Department of Lands, 1969-73? – Annual.

see also Lores, Peter, Kennedy, G.H.C., Larden, D. R., McLeod, R. ; Vial, A. J. and Wilsdon, J.

South Australia. Department of Lands. Survey and Mapping Division

South Australia. Department of Lands. Survey Division.

South Australia. Enquiry into the government mapping function in South Australia

South Australia see also Fitzgerald, L., Furber, T. F., Hillier, N. R. J., Johnston, F. M.

South Australian Institute of Surveyors.

Spencer, G. R.

Spencer, P. A.

Stackhouse, John

Steed, Jim
The geocentric datum of Australia / Jim Steed, AUSLIG. -- *In* The Globe : journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne ),1998, 47, 5-9:
ill. – 6 refs. -- Describes the change over from the Australian Geodetic Datum (AGD) to the Geocentric Datum of Australia (GDA), reasons, effects and differences between the two systems.

see also Allman, J. S. and Steed, J. B.

Stone, N. J.
Digitization of cartographic data using raster scanning – the RASvy experience / N. J. Stone, Warrant Officer Class 2, Army Survey Regiment, Bendigo. -- In Technical Papers, Australian Cartographic Conference (6th : 1986 : Melbourne), Session 6, [2-10] : 1 fig. -- The RASvy has had Automap 2 for years. This paper describes the problems and lessons learned.

Tasmania. Department of Environment and Planning. Mapping Division

Tasmania. Department of Lands and Surveys
Tasmania index map 1 inch to 1 mile map sheets. – [Hobart, Tas. : Department of Lands and Surveys, 1954]. – 1 map ; 34 x 25 cm. – Shows projected sheet names and numbers. First sheet was produced in 1954. Series replaced by the 1:50 000 series after 1956.

Tasmania. Department of Lands, Parks and Wildlife. Mapping Division

Tasmania. Department of Primary Industries, Water and Environment. Information and Land Services
Tasmania mapping activities progress / Department of Primary Industries, Water and Environment. Information and Land Services. – [Hobart, Tas.] : TASMAP, 2002. – 4 maps on 1 sheet showing the 1:100 000 topographic series, 1:25 000 mapping programme, the land tenure index series and recreational mapping.

Tasmania. Lands Department

Tasmania. Lands Department. Mapping Division
see also Love, A. R.

**Tasmania. Land Information Bureau**

**Tasmania. National Parks and Wildlife Service**

**Tasmania. Parliament. Standing Committee of the Co-ordination and Correlation of Levels and Surveys in Tasmania**

**Tasmania see also Johnston, F. M.**

**Taylor, Neil**
Development of a national small scale cartographic data base / Major Neil Taylor, Royal Australian Survey Corps. – In Technical Papers, Australian Cartographic Conference(8th : 1990 : Darwin), 145-151. – 4 refs. – Provides a general background to the development. Since 1975 will provide considerable savings in production of air charts.

**Thompson, J. A.**
Promotion of surveying and mapping to government : report / J. A. Thompson. -- In Australian Surveyor (Sydney: Institution of Surveyors, Australia), June 1984, 32, 2, 148-150.

**Thomson, W. A.**

**Thomson, W. A. and Madden, J. D.**
1:100 000 mapping program and ground truth / W. A. Thomson and J. D. Madden., Division of National Mapping. – In Technical Papers, Australian Survey Congress (21st : 1978 : Adelaide), Paper 11, 103-110 : 3 figs. – 3 refs. – Discusses the philosophy of ground truth and how field inspection and accuracy testing are used to verify quality of maps. Describes the method of map completion technique developed by the Division of National Mapping.

**Thorogood, F. E.**
The Royal Australian Survey Corps / F. E. Thorogood. -- In The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1978, 10, 3-6 : 1 table. – Functions and organisational structure.

**Tresize, Paul H. and Hutchinson, Michael F.**
The development of a national digital elevation model / Paul Tresize and Michael F. Hutchinson, Division of National Mapping. -- In Technical Papers, Australian Cartographic Conference (6th : 1986 : Melbourne), Session 6, [23-30]. – 7 refs. -- The paper provides an overview of the Division of National Mapping’s DEM, including descriptions of the adopted gridding algorithm and methods used for verifying the fidelity of the gridded model.

**Trinder, J. C. and Wise, P. J.**

**Tucker, K. J.**

**Turner, L.G.**

**Turner, L.G. and Mitchell, H. L.**

**Tyson, B. T.**
The topographical map series of Australia / B. T. Tyson. – B. T. Tyson, Department of Town & Regional Planning, University of Melbourne, 1965. – [ii], 53 p. [6 p.] : 25 plates (chiefly maps). – Covers the period from 1917–1965. – Includes six Appendices of which four are work flow charts on specific series. Describes the development of national mapping, a description of the current series and an evaluation of the series. -- A limited edition of 125 copies.

Urban, Frank
Central Mapping Authority and mapping in New South Wales / Frank Urban. – In Azimuth (Bathurst, N. S. W. : Institution of Surveyors, Australia. New South Wales Division), June 1983, 4-6,10. – Address to N.S.W. Division of the Institution of Surveyors, Central Western Group on history of the CMA, government reviews and brief reference to topographic mapping program. Current and future trends in mapping at the Central Mapping Authority of New South Wales / Frank Urban. – In Australian Journal of Geodesy, Photogrammetry and Surveying (Sydney: University of New South Wales), June 1984, 40, 84-90.


Vance, T. A.
Mapping a continent / T. A. Vance [Officer Commanding, Survey Section R. A. E.]. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1940, 8, 3, 148-156. – Early history of the Survey Section, Royal Australian Engineers (later the Royal Australian Survey Corps) and its work, including some specifications for mapping.
The present methods of the Australian Survey Corps / T. A. Vance. – In Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1938, 7, 1, 54-64. – Describes present mapping methods used by the Corps.

Veenstra, Con
Cartography in Australia / by Con Veenstra. – In Cartography (Canberra: Australian Institute of Cartographers), March 1985, 14, 1, 24-26. – Speech to ICA delegates at 12th ICA Conference, August 1984, Perth.
see also Allman, J. S. and Veenstra, C.

Veenstra, C., Gray, D. and Dovey, S.
Remote sensing and digital mapping / by C. Veenstra, Division of National Mapping, D. Gray, Director, Landsat Station and S. Dovey, Applications Specialist, Landsat Station. – In Technical Papers, Australian Survey Congress (27th : 1985 : Alice Springs), 99-106. – Discusses potential use of current systems (Landsat 1-3) and some of the high resolution non-photographic systems to the Division of National Mapping.

Vial, A. J.
An aerial photogrammetric survey operation / A. J. Vial, Officer in Charge, Aerial Survey Unit, Department of Lands, South Australia. -- In Cartography (Canberra: Australian Institute of Cartographers), 1959-60, 3, 2, 59-71 : 10 fig. – Description of procedures used.
A brief history of the Aerial Survey Unit, Department of Lands, South Australia / A. J. Vial. – In Cartography (Canberra: Australian Institute of Cartographers), March 1960, 3, 3 , 165-171 : 6 fig.

Viccars, Jack S.

Victoria. Department of Crown Lands and Survey


The history, functions and organization of the Department of Crown Lands and Survey, Victoria. -- [Melbourne, Vic.]: The Department, [n.d.]. – 15 p. : ill. ; 30 cm. – The first ten pages refer to the surveying, mapping, and aerial photography functions.

Maplist : catalogue of Victorian maps, September, 1982 / compiled by the Division of Survey and Mapping, Department of Crown Lands and Survey. – Melbourne, Vic. : Division of Survey and Mapping. [1986]. – 1 col. fold. broadsheet : col. maps ; 23 cm. – Contains index maps to topographic map series at scales from 1:250 000 to 1:2 500. Index to aerial photography at medium scales.

Mapping and aerial photography catalogue, Department of Crown Lands and Survey, Division of Survey and Mapping / Division of Survey and Mapping. -- Melbourne, [Vic.] : Govt. Printer, 1974. – 39 p. : maps (2 fold.) ; 30 cm. – Maps of Victoria by state and national agencies available from Victorian Division of Survey and Mapping. Includes topographic series at scales ranging from 1:1 000 000 to 1:25 000.


Mapping in Victoria : report and proposal for an expanded programme Division of Survey and Mapping, Department of Crown Lands and Survey. – v. (various pagings) : ill. ; 30 cm.


see also Contemporary Cartography

Victoria. Department of Natural Resources and Environment

VICMAP topographic map index as at August 1996 / [compiled by] Office of Geographic Data Co-ordination. – Melbourne, Vic. : Geographic Data Co-ordination, Department of Natural Resources and Environment, 1996. – 1 col. fold. broadsheet : col. map; 23 cm. – Shows 1:50 000 and 1:25 000 topographic map series. – Another issue for 1997.

Victoria. Department of Property and Services. Survey and Mapping Victoria


Maplist : catalogue of Victorian maps, plans and aerial photography, October 1986 / Division of Survey and Mapping, Department of Property and Services. – Melbourne, Vic. : Division of Survey and Mapping – v. (loose leaf) [p.], 9 [p.] : ill., chiefly col. maps ; 30 cm. – Contains index maps to the 1:250 000, 1:100 000, 1:63 360, 1:50 000, 1:31 680 and 1:25 000 topographic map series.

Report and recommendation for continuation of the accelerated mapping programme / R.E. Holmes. – Melbourne, [Vic.] : Division of Survey and Mapping, Department of Property and Services, 1985. – v. (various pagings) : maps ; 30 cm.


VICMAP mapsheet index / Survey and Mapping Victoria. – Melbourne, Vic. : Survey and Mapping Victoria, Department of Property and Services, 1990. – 1 col. fold. broadsheet : col. map ; 24 cm. – Contains index to the 1:25 000 and 1:50 000 scale topographic map series.
Victoria. Division of Survey and Mapping.

Discover Victoria with VICMAP 1:25 000 / Division of Survey and Mapping. – Melbourne, Vic. : The Division, 1988. – 7 maps ; 30 cm. – Indexes to the 1:25 000 scale topographic series.


Mapping and aerial photography catalogue Department of Crown Lands and Survey, Division of Survey and Mapping / Division of Survey and Mapping. -- Melbourne, [Vic.] : Govt. Printer, 1974. – 39 p. : maps (2 fold.) ; 30 cm. – Maps of Victoria by state and national agencies available from Victorian Division of Survey and Mapping. Includes topographic series at scales ranging from 1:1 000 000 to 1:25 000.


Review of survey and mapping service discussion papers / Victoria Division of Survey and Mapping. – Melbourne, [Vic.] : Titles Office, [198-?]]. – v. (various pagings) ; 30 cm.


Victoria see also Brown, A. C. and Mitchell, J. E., Chappel, Keith L., Clark, C. T., Honan, C. S., Institution of Surveyors, Australia, Victorian Division and Institute of Cartographers, Johnston, F. M., Mitchell, J.E., Spencer, G. R.

Walter, C. K.
Field use of the tellurometer / C. K. Walter, Division of National Mapping. -- In Cartography (Canberra: Australian Institute of Cartographers), 1959-60, 3, 1, 17-25 : 1 ill., 2 figs. – 4 refs. – Recounts experiences of the first survey party to operate a tellurometer in Australia.

Warnest, Gary

Waterford, Jack
Bureaucrats indulge in a power play to control mapping facilities / Jack Waterford. -- In Canberra Times, 1986, 17 Aug., p. 2 : ill. – Details regarding politicising of mapping activities carried out by Division of National Mapping and the Royal Australian Survey Corps. Other federal agencies mentioned are the Australian Survey Office, Australian Land Information Council and the National Mapping Council of Australia.

Mapping Australia well off bearing / Jack Waterford. – In Canberra Times, 1986, 3 Aug., p. 2 – Call for more co-ordination by two Commonwealth agencies engaged in the mapping of Australia.

Watson, Christopher
Australian Antarctic surveying and mapping / Christopher Watson. – In Technical Papers, Australian Survey Congress (39th : 1997 : Launceston), 23-30 : 1 fig. – 6 refs. – Brief summary of the history of surveying and mapping activities. Principal components of current Australian National Antarctic Research Expedition’s mapping and geographical information program are discussed.

Western Australia. Department of Land Administration
Annual report / Department of Land Administration. – Perth, W.A. : The Department , [1988]- . --

Western Australia. Department of Land Administration. Central Map Agency

see also Western Australia. Department of Lands and Surveys

Western Australia. Department of Lands and Surveys

Orthophotomapping: a digital comparison / Western Australia, Department of Lands and Surveys. – In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9th : 1980 : Wellington), v. 2, 113-119 : 2 figs. – 6 refs. – Orthophotography a support of
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