

**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 (RASvC) 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.

Dorothy F. Prescott  
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**Adams, P. F.**

Base line for triangulation of New South Wales (reports from Surveyor General, respecting.) to the Under Secretary for Lands, 5<sup>th</sup> November, 1870 and 18<sup>th</sup> May, 1871 / P. F. Adams, Surveyor General. – *In* New South Wales. Parliament. Legislative Assembly. Votes and Proceedings, 31 May, 1871. – 4 p.

Triangulation of the Colony – Proposed estimates for 1873, enclosing report on Public Surveys of 6 July, 1865 / P. F. Adams. – *In* New South Wales. Parliament. Legislative Assembly. Votes and Proceedings, 20 December, 1872. – 4 p.

**Advisory Committee on Commonwealth Mapping (ACOCM)**

see Gillespie, J. G., Intergovernmental Committee on Surveying and Mapping, Spencer, P. A.

**Allen, A. Max**

Report of the Government Mapping Investigation Committee, New South Wales / A. Max Allen, Chairman. – [Sydney, Gvt Pr.] 1946. – 11, [2] ; 20 cm.

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

Geodetic model of Australia 1980 / by J. S. Allman and J. B. Steed. – Canberra, [A.C.T.] : Department of National Development and Energy, Division of National Mapping, 1980. – 18, [78] p. : 10 figs., maps ; 30 cm. – Annexes A and B are tables of co-ordinates. – (Technical report / Department of National Development & Energy, Division of National Mapping) ; 29. – Bibliogr. p. 18. – ISBN 0642514917.

**Allman, J. S. and Veenstra, C.**

Geodetic model of Australia 1982 / by J. S. Allman and C. Veenstra. – Canberra, [A.C.T.] : Department of Resources and Energy, Division of National Mapping, [1984]. – 58 p. : figs., maps (some col.) ; 30 cm. – Annexes A and B are tables of co-ordinates. – (Technical report / Department of National Development & Energy, Division of National Mapping) ; 33. – Bibliogr. p. 55-58. – ISBN 064251514X.

**Anon.**

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

Completion of the 1:100 000 topographic coverage of Papua New Guinea / anon. – *In* Cartography (Canberra: Australian Institute of Cartographers), Sept. 1980, 11, 4, 202-203. – Describes the work carried out by the Royal Australian Survey Corps. Provides facsimile of preface to the three volume Atlas of map sheets.

Jubilee of the Royal Australian Survey Corps / anon. – *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1965, 20, 7, 557-559.

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.

Redesign of World Aeronautical Charts for remote areas of Australia / anon. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (6<sup>th</sup> : 1970 : Tehran), v. 2, 346. – Specifications in Annexure 4 to the Convention on Civil Aviation not satisfactory for remote central and western areas of Australia. A Design Committee established to study problem and suggest changes. The resultant chart is better. – E/CONF.57/L.48.

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.

View of surveying and mapping in Australia and New Zealand : area report V. – *In* GIM International Journal for surveying, mapping and applied GIS (Lemmer, Netherlands: Geodetical Information and Trading Centre) Feb. 1994, 8, 2, 80-85 : 10 ports., map. – Thumbnail sketch of history and structure of surveying and mapping in Australia through interviews with state Surveyors-General or their equivalents.

**Antarctica** see **Australia. Division of National Mapping, Australian Surveying and Land Information Group, Contemporary Cartography, Cook, D. P., International Council of Scientific Unions. Working Group on Geodesy and Cartography, Kirby, G. H., Law, P. G., Manning, John, National Mapping Council of Australia, Quilty, Patrick, Scientific Committee on Antarctic Research, Watson, Christopher,**

**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**

**Airborne profile recording.** -- *In* *Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup>: 1983: Bangkok), v. 2, 216-220: 1 fig. -- System description, principle of operation, data, accuracy limitations and safety aspects. -- E/CONF.75/L.11.

**Analytical hill shading.** -- *In* *Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup>: 1983: Bangkok), v. 2, 456-458. -- E/CONF.75/L.17.

**Annual report / Royal Australian Survey Corps.** -- Canberra, A.C.T.: The Corps, 1 Jul 85-30 June 86-1991/92. -- v.: chiefly col. maps; 30 cm. -- Contains details on map and chart production, field survey, aerial photography, equipment, training, Defence Co-operation Programme. -- Annexes contain index maps. -- Former title: 1. Australia. Army. Royal Australian Survey Corps. Annual progress report: surveying and mapping for the period ... 2. Australia. Army. Royal Australian Survey Corps. Progress report on surveying and mapping for the period ... 3. Australia. Army. Royal Australian Survey Corps. Annual progress report. Pictorial index surveying and mapping activities ...

**Annual progress report. Pictorial index surveying and mapping activities...** / Royal Australian Survey Corps. -- [Canberra, A.C.T.: The Corps], 1971-85. -- v.: chiefly maps; 27 x 35 cm. -- Issued as a supplement to Australia. Army. Royal Australian Survey Corps. Annual progress report: surveying and mapping for the period ... -- Later title: Australia. Army. Royal Australian Survey Corps. Annual report. -- Contains index maps of Australia and its states at the scales of 1:25 000 – 1:250 000, 1:1 000 000 and indexes to the digital topographic data base. Indexes to doppler satellite stations, aerial photography carried out and airborne profile recording.

**Annual progress report: surveying and mapping for the period ...** / Royal Australian Survey Corps. -- [Canberra, A.C.T.: The Corps], 1986-1992. -- v.: chiefly maps; 30 cm. -- Distinctive title: Australia. Army. Royal Australian Survey Corps. Annual report. -- Former title: Australia. Army. Royal Australian Survey Corps. Progress report on surveying and mapping for the period ... -- Has supplement: Australia. Army. Royal Australian Survey Corps. Annual progress report. Pictorial index of surveying and mapping activities. -- Contains index maps of Australia and its states and Papua New Guinea showing status of mapping. -- The report also occurs in National Mapping Council. Meeting. Part 2. Reports of members. Based on 1984/85 issue.

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

**Automation in computer-assisted cartography: AUTOMAP 2.** -- *In* *Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup>: 1983: Bangkok), v. 2, 449-456: 2 figs. -- Description of system and workflow chart. -- E/CONF.75/L.16.

**Cartographic enhancement of orthophotomapping.** -- *In* *Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup>: 1983: Bangkok), v. 2, 223-228. -- Discusses aspects with emphasis on enhancement. -- E/CONF.75/L.13.

**Catalogue of official military maps. Part 1.** Australia. May 1944 / prepared by the General Staff, and issued under the direction of the Commander in Chief, Headquarters, Australian Military Forces. [n.p.] : Published by the Australian Survey Corps, May 1944. -- At head of title: Australian Military Forces. -- LHQ/ 270/ 1420. -- v. [loose leaf] : col. maps; 34.5 x 22.0 cm. -- Contains map indexes of Australia and its states and also the Australian Aeronautical and the 1:1M. series. Amended by supplements to Oct. 1944.

**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

- Chief, Headquarters Australian Military Forces. -- [n.p.] : Published by the Australian Survey Corps, July 1944. -- At head of title: Australian Military Forces. -- v. [loose leaf] : col. maps ; 34.5 x 22.0 cm. -- Reproduced by LHQ Cartographic Coy., Australian Survey Corps. -- LHQ/ 271/ 1421. -- Contains map indexes of New Guinea, New Britain, Dutch New Guinea, Manus & adjacent islands, Netherlands East Indies and Portuguese Timor. Amended by supplements to Oct 1944.
- Catalogue of official military maps. Part 1. Australia July 1946 / published by the Australian Survey Corps. -- [n.p.] : Reproduced by A.H.Q. Cartographic Coy., Aust. Survey Corps, [1946]. -- At head of title : Australian Military Forces. -- AHQ/ MISC/ 9851. -- v. [loose leaf] : col. maps ; 34.5 x 22.0 cm. -- Contains maps indexes of Australia and its states and also the Australian Aeronautical and the 1:1M series. Amended by supplements to Apl. 1958.
- 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.
- Five colour process printing of line mapping. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup> : 1983 : Bangkok), v. 2, 725-727. -- Lists advantages and disadvantages. -- E/CONF.75/L.22.
- Manual of map specifications : large and medium scale series / Directorate of Military Survey, Army Headquarters. -- [n.p.] : Published by [the] Royal Australian Survey Corps, 1961. -- v. [loose leaf] 172 p., 18 appendices ; 34.5 x 22.0 cm. -- Working manual for cartographers, the appendices contain specimen sheets.
- Manual of topographical surveying : computations. -- [Canberra, A.C.T.] : Royal Australian Survey Corps, 1952. --6, [8] p. : ill. ; 34 cm.
- Manual of topographical surveying : machine computation methods of intersection & resection. -- [Canberra, A.C.T.] : Royal Australian Survey Corps, 1953. -- v.
- Map and air chart catalogue. Volume 1 : Australia and its territories / Department of Defence, Royal Australian Survey Corps. -- [Canberra, A.C.T.] : Royal Australian Survey Corps, 1985-1992. -- v. [loose leaf] : col. maps ; 35 x 45 cm. -- Kept up to date by supplements. All states and territories. -- ISBN 0 642 11879 5.
- 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.
- Production of orthophotomapping using a duotone random dot technique. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup> : 1983 : Bangkok), v. 2, 727-732 : 1 fig. -- Description of technique used by RASvyC. -- E/CONF.75/L.23.
- Progress report on surveying and mapping for the period ... / Royal Australian Survey Corps. -- [Canberra, A.C.T. : The Corps], 1971-85. -- v. ; 30 cm. -- Annual. -- Later title: 1. Australia. Army. Royal Australian Survey Corps. Annual progress report : surveying and mapping for the period ... 2. Australia. Army. Royal Australian Survey Corps. Annual progress report. Pictorial index surveying and mapping activities. -- Also titled: Australia. Army. Royal Australian Survey Corps. Report on activities.
- Report on activities / Royal Australian Survey Corps. -- Canberra, A.C.T. : The Corps, 1971-85. -- v. ; 30 cm. -- Annual. -- Cover title: Royal Australian Survey Corps. Progress report on surveying and mapping. -- Later title: Australia. Army. Royal Australian Survey Corps. Annual report / Royal Australian Survey Corps.
- Royal Australian Survey Corps handbook : an introduction to topographic mapping. -- [Canberra, A.C.T.] : The Corps, [1991?]. -- ii, 14 p. : chiefly col. ill., maps ; 22 x 30 cm. -- ISBN 0646108239.
- Royal Australian Survey Corps. Progress report on surveying and mapping / Royal Australian Survey Corps. -- Canberra, A.C.T. : The Corps, 1974-85. -- v. ; 30 cm. -- Annual. -- Later title: Annual report / Royal Australian Survey Corps.
- Simulated colour for orthophotomap production. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup> : 1983 : Bangkok), v. 2, 221-223. -- The RASvyC uses 2 techniques for producing material suited for simulated colour orthophotomaps. False colour duotone technique suited to OPM of the outback. -- E/CONF.75/L.12.



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.

Use of Landsat imagery to supplement conventional imagery in medium scale and small scale mapping. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (10<sup>th</sup> : 1983 : Bangkok), v. 2, 285-286. – E/CONF.75/L.14. see also Anon, Army Topographic Support Establishment, Australia. Division of National Mapping. Specifications for topographic map series, Australian Audit Office, Bridge, R. G., Brown, R. L., Bryant, F. L., Child, W., Clews, H. P. and Rossiter, H., Contemporary Cartography, Coulthard-Clark, C. D., Dibb, Paul, Fitzgerald, L., Hall, H. M., Hillier, John, Hunt, J. F., Jensen, Peter, Kennedy, G. H. C., Laing, A. W., Lea, M. J., Lines, John D., MacDonald, D., McLachlan, Brian, McLusky, D. et al., McRae, Heather, Oaten, Greg, Quinlan, Cecil, Raisbeck, J. J., Richardson, Jack E., Sargent, T. C., Stone, N. J., Thorogood, F. E., Tyson, B. T., Vance, T. A., Viccars, Jack S., Warnest, G., Waterford, Jack, Williams, R. J. and Wrigley, Alan

**Australia. Army. Royal Australian Survey Corps. Army Survey Regiment.**

Automated grid and graticule production / Royal Australian Survey Corps, Army Survey Regiment. – [Canberra] : [Army Survey Regiment, Department of Defence], 1978. – iii, 138 p. : maps ; 30 cm. – Application of digital computer systems for plotting of map grids and graticules. – ISBN 0642907862.

**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 J. D. Lines '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**

Annual report of Lands and Survey Branch. – Sydney : Government Printer, 1914- . – v. : ill., maps (some col.) ; 35 cm. – Surveying of the Australian Capital Territory.

**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[ew] 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**

Aerial photography progress report : Oct./Dec 1960-Apr./June 1976). – Canberra, [A.C.T.] : The Division. – v. ; 34 cm. – Quarterly.

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.

Antarctica maps and air photographs / Division of National Mapping. – Queanbeyan, N.S.W. : The Division, 1980. – [2p.] : ill., col. maps ; 30 cm. – Leaflet no. 7. – Leaflet updated as work progresses.

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 (7<sup>th</sup> :

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 / Division of National Mapping. – Queanbeyan, N.S.W. : The Division, 1980. -- [4p.] : ill., 2 col. maps ; 30 cm. – Leaflet no. 8. -- Leaflet updated as work progresses.

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. – [4p.] ; 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. – [1p.] : 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. – [1p.] : ill., 2 col. maps ; 30 cm. – Leaflet no. 10. – Leaflet updated as work progresses.

Australian cartographic activities as at 31 Dec. 1966 / paper presented by Australia. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (5<sup>th</sup> : 1967 : Canberra)*, v. 2, 71-74 : 4 col. maps. – Comprehensive account of all types of mapping carried out, includes topographic mapping and aerial photography, national geodetic surveys and levelling surveys on pages 71-73. – Annexure 1. Australian national geodetic survey as at 31<sup>st</sup> Dec. 1966. – Annexure 2. Australian national levelling survey as at 31<sup>st</sup> Dec. 1966. – Annexure 3. Australia and New Guinea aerial photography as at 31<sup>st</sup> Dec. 1966. – Annexure 4. Australia and New Guinea topographic map coverage as at 31<sup>st</sup> Dec. 1966. – Covers 1:63 360 and larger (contoured) and planimetric compiled and published at 1:63 360 – 1:253 440. – E/CONF.52/L.104.

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.

Australian standard format and codes for the exchange of digital mapping and charting data on magnetic tape. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9<sup>th</sup> : 1980 : Wellington)*, v. 2, 253-254. – Abstract only. – Draft standard issued Dec. 1979. – E/CONF.72/L.35.

The bathymetric mapping of the Australian continental shelf / Division of National Mapping, Department of Minerals and Energy. – *In Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (7<sup>th</sup> : 1973 : Tokyo)*, 478-480 : 1 map. -- E/CONF.62/L.114.

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Developments in airborne profiling : laser terrain profiling equipment / anon. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (6<sup>th</sup> : 1970 : Tehran)*, v. 2, 275-282 : 6 figs. – The Division of National Mapping sponsored development of laser terrain profile specifications for mapping purposes through the scientific research facilities of the Weapons Research Establishment of the Department of Supply. Describes the profiler and aircraft used, principles of operation and techniques employed and modifications made. – E/CONF.47/L.64.

- Digital topographic mapping in the Division of National Mapping. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup> : 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.
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- Four colour reproduction. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (9<sup>th</sup> : 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.
- Geodesy in the Division of National Mapping. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (9<sup>th</sup> : 1980 : Wellington), v. 2, 111-113. – Abstract only. – Geodetic field surveys by Doppler satellite observations. The adjustment of new horizontal and vertical control computed by the Division using VARYCORD and CHAOS. – 5 refs. – E/CONF.72/L.40.
- Geodetic activities in Australia to 1973 / Division of National Mapping, Department of Minerals and Energy. – *In Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (7<sup>th</sup> : 1973 : Tokyo), 159-164 : 3 maps. – E/CONF.62/L.38.
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- Landsat catalogue [microform] / Division of National Mapping. – Queanbeyan, N.S.W. : The Division, 1979. – Distinctive title: Catalogue of Landsat imagery of Australia. Former title: EROS Data Center. [ERTS-1 satellite imagery negatives of Australia]
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- Map accuracy. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (9<sup>th</sup> : 1980 : Wellington), v. 2, 251-252. – Abstract only. – Describes the procedure for evaluation of 1:100 000 accuracy. – E/CONF.72/L.31.
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- Map catalogue: 1:100,000 series, 1:250,000 series / Division of National Mapping, Department of National Development. – Canberra, A.C.T. : Division of National Mapping, 1968. – v. (various pagings) : maps ; 30 cm. – Processed. NM/MISC/67/218.
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- Notes on the use of the geodimeter and the tellurometer in Australia / anon. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (2<sup>nd</sup> : 1958 : Tokyo)*, v. 2, 90-91. – Explains techniques to eliminate error in the geodimeter. Discusses factors relevant to measurement of long lines with the tellurometer. – E/CONF.25/L.77.
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- 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. – 1<sup>st</sup> 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.
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- Report on cartographic activities in Australia as at 1 September 1964 / anon. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (4<sup>th</sup> : 1964 : Manila)*, v. 2, 25-26 : 6 col. Maps. – Progress report of work carried out under the guidance

- of the National Mapping Council. Chief contributors Department of National Development , Department of the Army, state Surveyors- General, Commonwealth Scientific and Industrial Research Organisation, Department of the Interior, Department of the Navy, state Mines and Forests departments. – Information on geodetic survey, aerial photography and map coverage. – Annexure 1. National geodetic survey as at June 1964. – Annexure 2. Australia and New Guinea. Air photography coverage as at June 1964. – Annexure 3. Australia and New Guinea. Map coverage as at June 1964. – E/CONF.50/L.70.
- Report on progress in surveying and mapping, 1983-1986. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (11<sup>th</sup> : 1987 : Bangkok), v. 2, 3. – Covers aerial photography, satellite imagery and topographic mapping. – E/CONF.87/L.74.
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- see also National Mapping Council of Australia**
- Revision cycle forecast model / anon. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9<sup>th</sup> : 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.
- Revision of the National Topographic Map Series / anon. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (9<sup>th</sup> : Wellington : 1980), v. 2, 108. – Abstract only. – E/CONF.72/L.28.
- A simplified method of relief drawing to supplement contours / presented by Australia. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (6<sup>th</sup> : 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.
- Some aspects of photogrammetry / Division of National Mapping, Department of Minerals and Energy. – *In* Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (7<sup>th</sup> : 1973 : Tokyo), 221-225 : 2 figs. – Deals with two aspects of computerised photogrammetry used in the Division of National Mapping. – E/CONF.62/L.39.
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- Standard symbols for use on maps of Antarctica / The Division **see Scientific Committee on Antarctic Research. Working Group on Geodesy and Cartography.**
- Statement of activities / prepared by Director of National Mapping. – Canberra, A.C.T. : Division of National Mapping, Department of National Development and Energy, 1966-86. – v. : maps ; 30 cm. – Annual. – Distinctive title: NATMAP activities. – ISSN 0811-9600.
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- West and north-central Australia 1:100 000 topographic maps / Division of National Mapping. – Belconnen, A.C.T. : The Division, 1986. – [1p.] : 3 col. maps ; 30 cm. – Leaflet no.3. -- Leaflet updated as work progresses.  
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- Australia. National Mapping Office**  
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- Report to the United Nations Organisation on topographic mapping in Australia / National Mapping Office. – [Canberra, A.C.T.] : National Mapping Office, 1952. – 6 p. : 5 maps. – *In* World Cartography, 1953, III, 41-47.  
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 Department of Defence: Army mapping / The Auditor General. – Canberra, A.C.T. : Australian Government Publishing Service, 1987. – ix, 68 p. : ill., 3 tables : 26 cm. – (Efficiency audit report). – Parliamentary paper (Australia. Parliament : no. 151 of 1987). – Seven appendices pp. 60-67 – Examines the cost of army topographic mapping. The findings indicate map production is labour intensive and slow and the manual management system does not provide the facility to anticipate production problems. -- PP 151/87. – AGPS cat. no. 8710494. – ISBN 0 644 06284 3
- Australian Capital Territory** see **Australia. Department of Home Affairs, Australia. Department of the Interior, Australian Survey Office, Hillier, N. R. J.**

**Australian Geodetic, Topographical and Geological Committee** see **Institution of Surveyors, Australia**

**Australian Institute of Cartographers**

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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.

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see also **Contemporary Cartography**

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

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Statement of mapping activities / Department of Services and Property, Australian Survey Office. -- [Canberra, A.C.T.] : The Office, 1974 -1985. -- v. ; 30 cm. -- Details maps and surveys performed during the year. -- Former title: Australia. Dept. of the Interior. Survey Branch. Report of mapping activities.

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 : Australian Surveying and Land Information Group / Australian Surveying and Land Information Group. -- Belconnen, A. C. T. : / Australian Surveying and Land Information Group, [1991]. -- 1 portfolio (25 pamphlets) : col. ill. ; 32 cm. -- Includes introduction to AUSLIG services and publications.

AUSLIG directions / Australian Surveying and Land Information Group. -- Canberra, [A.C.T.] : Professional Public Relations, 1991-1997. -- v. : col. ill. ; 30 cm. -- Also titled: Australian Surveying and Land Information Group -- Directions. -- Later title: Directions newsletter. -- ISSN 1037-440X.

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 spatial data infrastructure: mapping the future towards a knowledge-based economy : ASDI. Canberra, [A.C.T.] : AUSLIG, 1999. -- 1 fold. sheet : ill., maps ; 30 cm. -- Issued by the Commonwealth Spatial Data Committee and Australia New Zealand Land Information Council. -- Note: A vital strategic asset for government, private industry, corporation and all Australians.

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

- Group, Department of Industry, Science and Tourism, 1998. – v. (various pagings) : ill., maps ; 32 cm. – Deals with digital standards for topographic map series and with standards for Geographic information systems.
- 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.
- Direct printing of digital imagery. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (11<sup>th</sup> : 1991 : Bangkok), v. 2, 219-220 : 2 refs. – The SIMAP process (ie, satellite image mapping). – E/CONF.83/INF.9.
- Directions newsletter / AUSLIG, Australia's National Mapping Agency. – Belconnen, A.C.T. : AUSLIG, 2000- . – v. : col. ill. ; 30 cm. – Former title: AUSLIG directions. -- ISSN 1037-440X.
- Mapdata : 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.
- Map index topographic maps available from Auslig / Australian Surveying and Land Information Group. – Revised 1996. – Belconnen, A.C.T. : AUSLIG, 1996. – 1 fold. sheet. – On verso: Alphabetical list of map sheets.
- Map product catalogue AUSLIG / Australian Surveying and Land Information Group. – [Belconnen, A.C.T.] : AUSLIG, [199-?]. – 32 p. : col. ill., maps ; 30 cm. – Folded map in pocket.
- 1:100 000 map revision program 1999 work package areas / Australian Surveying and Land Information Group. – [Canberra, A.C.T.] : AUSLIG, 1999. – 1 map on 2 sheets : ill. ; 38 x 50 cm. – West Australia. East Australia. 3 March 1999.
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- 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**

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**Baker, Graham and Irwin, Bob**

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see also **New South Wales. Land Information Centre, New South Wales. Land and Property Information**

**Chappel, Keith L.**

Early history of surveying in Victoria / Keith Chappel. -- *In* Technical Papers, Australian Survey Congress (17<sup>th</sup> : 1974 : Melbourne), 30-46. -- Bibliogr.: p. 46. -- Short section on triangulation in Victoria.

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**Clarke, Andrew L.**

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**Clarke, Andrew L. and Morrison, Tom**

A 1:1 000 000 scale digital topographic data base of Australia / Andrew L. Clarke and Tom Morrison, Division of National Mapping. -- *In* Technical Papers, Australian Cartographic Conference (6<sup>th</sup> : 1986 : Melbourne), Session 4, [2-9]. -- 8 refs. The Division of National Mapping commenced digitising the topographic information from the World Aeronautical Chart in 1982. The paper describes the content and quality of the topographic data base, the cleaning and structuring programmes and the planned data base developments.

**Clarke, T. F. and Dovey, S.**

Landsat imagery -- its rectification and potential application to 1:250 000 scale topographic map revision in Australia / T. F. Clarke and S. Dovey. -- *In* Technical Papers, Australian Cartographic Conference (6<sup>th</sup> : 1986 : Melbourne), Session 13A, [9-13]. -- 1 ref. -- The Division of National Mapping is developing a system for quicker and cheaper topographic map revision at 1:1 000 000 and 1:250 000 scales using rectified Landsat imagery, existing aerial photography and ancillary information.

**Clews, H. P. and Rossiter, H.**

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**Collins, Linda M.**

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the diversity of applications for which remote sensing is being used by the Queensland Department of Mapping and Surveying and its cost effectiveness.

**Commonwealth Survey Committee Meeting**

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**Conder, W. J.**

see **New South Wales. Department of Lands. Annual report 1880.**

**Conference of Surveyors-General (1912 : Melbourne)**

Conference of the Director of Commonwealth Lands and Surveys, the Surveyor-General and the Government Astronomer of New Zealand, and the Surveyors-General of the States of the Commonwealth of Australia : Melbourne, 20<sup>th</sup> to 25<sup>th</sup> May, 1912. - Melbourne : Albert J. Mullett, Acting Government Printer. - 63 leaves, [1 leaf of plates] : portr. ; 33 cm. - Other title: Conference of Surveyors-General 1912. - At head of title: Commonwealth of Australia. Department of Home Affairs. - Concerned with surveys of Australia and New Zealand.

**Conference on National Survey and Mapping of Australia, (1945 : Canberra)**

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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., 1 fig. - A new series designed to cover the Australian continental shelf area.

**Contemporary cartography; [Division of National Mapping].** - Tantangara 8626, National Map Series, 1: 100 000 / B. E. Goodrick, Chief Cartographer, Division of National Mapping. -- *In* Cartography (Canberra: Australian Institute of Cartographers), Jan 1975, 9, 1, 35-38 : 1 fig., 1 col. map on 2 pages. -- The new series applies new specifications designed for modern scribing, masking and production techniques. Roads and streams are classified.

**Contemporary cartography; [Division of National Mapping].** -- Limbunya SE 52-7, 1 : 250 000 National Topographic Map Series / B. E. Goodrick. -- *In* Cartography (Canberra: Australian Institute

of Cartographers ), July 1976, 9, 4, 231-235 : 1 fig., 1 col. map on 2 pages. -- This new 1:250 000 series will replace the R502 series which was completed in 1968. The new series is wholly metric.

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**Contemporary cartography; Royal Australian Survey Corps.** -- The 1:50 000 scale series of Australia as produced by the Royal Australian Survey Corps, Department of the Army. -- *In* Cartography (Canberra: Australian Institute of Cartographers ), Sept. 1956, 1, 4, 151-160 : 1 col. folded map on 3 pages. -- Describes the first sheet, Mildura, of a new topographic series designed to supersede the 1:63 360 series. Detail on policy decisions, design, fair drawing and reproduction.

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**Cook, D. P.**

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**Coulthard-Clark, C. D.**

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Bathymetric surveying and mapping / S. G. Cowling, Senior Surveyor in the Survey Operations Branch, Division of National Mapping. -- *In* Technical Papers, Australian Congress of Surveying and Mapping (1<sup>st</sup> : 1982 : Canberra) and Australian Cartographic Conference (5<sup>th</sup> : 1982 : Canberra), p. 43.

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Obsolescence -- the on-going problem for cartographic information systems. Part 2. The need for revision due to the impact of change on topographic data / Kevin Crane, Division of National Mapping. -- *In* Technical Papers, Australian Cartographic Conference (6<sup>th</sup> : 1986 : Melbourne), [20-27]. -- 3 refs. -- The amount of deterioration in reliability should determine the need for revision. Various techniques can be employed for determining this need and for effecting revision including the use of space imagery. Both graphical and digital methods are used for map revision.

**De Plater, Murray**

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**Dibb, Paul**

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**Featherstone, Will**

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**Fitzgerald, L.**

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The Division of National Mapping's part in the geodetic survey of Australia / R. A. Ford. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1979, 29, 6, 375-427: 8 ill., 13 figs. -- Continued in Sept. 1975, 29, 7, 465-536 : 25 ill., 11 figs. -- Concluded in Dec. 1979, 29, 8, 581-638. -- Deals with the Melbourne Office over the years 1951-1969.

**Foskett, Alan**

The early days of the Atlas of Australian resources, 1948-1955 / by Alan Foskett. -- Canberra, [A.C.T.] : A. Foskett, 1993. -- 26 p. : ill., portr. ; 30 cm.

**Fryer, John**

Computer mapping in the Division of National Mapping / John Fryer. -- *In [Papers], Australian Survey Congress* (18<sup>th</sup> : 1975 : Perth, Australia), 11-18. -- Fryer was Research Surveyor in the Division from 1970 to 1974 working on the implementation of computer mapping systems. Discusses the six areas where computer mapping has replaced manual cartography.

**Furber, T. F.**

The trigonometrical survey of New South Wales, with mention of similar surveys in other Australian colonies / T. F. Furber. -- *In Proceedings* (Australia and New Zealand Association for the Advancement of Science), Jan. 10, 1898, Section A, Paper 4, 176-237, [8] pages : diags., maps. see also Anon, *Review of T. F. Furber's The Trigonometrical ...*

**Fyfe, W. V.**

Geodetic and topographical surveys in Western Australia / by W. V. Fyfe, Surveyor-General, Western Australia. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Mar. 1956, 16, 1, 22-27: 1 map. -- A brief history.

**Gillespie, James G.**

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National Mapping : Institution of Surveyors, Australia, Report of Council to Eleventh General Meeting / J. G. Gillespie, [ISA member on the Advisory Committee on Commonwealth Mapping]. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1964, 20, 2, 113-117 : 1 col. map. -- Covers various aspects of work carried out, including number of sheets published at various scales and international activities.

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National Mapping / J. G. Gillespie, ISA member on the Advisory Committee on Commonwealth Mapping. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1963, 19, 6, 369-370. -- Report on survey activities including progress with tellurometer traversing, air photography and mapping. Antarctic work also covered.

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.

Report on National Mapping / James G. Gillespie. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Sept. 1957, 16, 7, 394-395. -- Report on the progress of the Advisory Committee on Commonwealth Mapping.

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#### **Hall, H. M.**

A simple silk screen equipment for limited map reproduction / Lt. Col. H. M. Hall, Royal Australian Survey Corp. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (5<sup>th</sup> : 1967 : Canberra), v. 2, 463-464. -- Description of simple equipment suitable for in field publishing of 6 colour maps. -- E/CONF.52/L. 74.

#### **Helyar, Geoffrey**

They led the way : a short account of the Lands and Survey Department of the Northern Territory, 1869-1978 : part one, 1869-1939 ; part two 1940-1978 / Geoffrey Helyar. -- [Darwin, N. T.] : Department of Lands and Housing, 1990. -- 178 p. : ill., maps ; 25 cm. -- A history of the Department of Lands and its work. -- ISBN 0724514597.

They led the way : a short account of the Lands and Survey Departments of the Northern Territory. Part 1. 1869-1939 / by Geoffrey Helyar. -- [Darwin : Department of Lands, 1983]. -- 39 leaves : maps (some fold.) ; 30 cm. -- A short history of the Department of Lands and of surveying for land settlement and land tenure. -- ISBN 072450239

#### **Higgins, N. J.**

The Trigonometrical Survey Division, Central Mapping Authority, Department of Lands New South Wales / by N. J. Higgins. -- Paper presented to the [Australian] Survey Congress (6<sup>th</sup> : Adelaide : 1962), ca. 20 p. -- Covers scope of work performed by the Division, methods, and progress up to the present from 1828. -- Typescript held in Lands Department Library.

#### **Hillier, N. R. J.**

Colonial surveyors: the Royal Engineers in the colonies military cartographic endeavours from settlement / John Hillier. -- *In The Globe: journal of the Australian Map Circle, Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1994, 40, 1-11. -- 8 refs. -- Includes a section on the foundation of the Royal Australian Engineers and their work up until the 1930s. -- Another version in *Technical Papers, Australian Cartographic Conference* (7<sup>th</sup> : 1988 : Sydney), 349-365.

Developments in map production / by N. R. J. Hillier, Royal Australian Survey Corps. -- *In Report of Proceedings, Conference of Commonwealth Surveyors* (1987 : Cambridge), Part I, Paper No. E.1, 18 p. : 2 figs. -- Examines use of Ultra High Altitude photography at scale of 1:140 000, supplemented by Landsat imagery, the use of SORA-OP program for orthophotomap production. Also discusses use of simulated colour enhancement for cartography of outback mapping since 1981, duotone and random dot techniques in printing, analytical hill shading, rapid response publication processes, and five colour process printing of line mapping.

Eighty years back - mapping the A[ustralian] C[apital] T[erritory] for the R[oyal] M[ilitary] C[ollege] / John Hillier. -- *In Canberra Historical Journal* (Canberra: Canberra and District Historical Society), New Series, Sept. 1991, no. 28. -- v. : ill. ; 30 cm. -- Paper read to Australian Survey Conference (32<sup>nd</sup> : 1990 : Canberra). -- Describes the background to the decision for the newly formed Survey Section, Royal Australian Engineers to collaborate with the Department of Home Affairs, Department of Defence and the New South Wales Department of Lands to produce the 1 mile military topographic map of Canberra.

Military contributions towards the strength of unity of the Northern Territory topographic framework / John Hillier *In Technical Papers, Australian Survey Congress* (35<sup>th</sup> : 1993 : Darwin), 137-60. -- Traces the development of military mapping in the Northern Territory from 1905 to 1945 within the



context of surveying and cartographic activities Australia wide but focusing on the requirements to prepare for war. Includes comments on Japanese copies of Australian military maps.  
Military topographic mapping and charting in South Australia / John Hillier. -- *In* Proceedings, Australian Conference on Mapping and Charting (1<sup>st</sup>: 1992 : Adelaide), 294-295. -- Abstract only.

**Hocking, David R.**

Mapping data and the National Mapping Programme / by D. R. Hocking, Senior Surveyor, Survey and Mapping Services, Division of National Mapping. -- *In* The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1975, 4, 31-37. -- Information on basic mapping data, aerial photos and map control with a description of their uses in the national topographic mapping program.

Natmap early days, map compilation from aerial photographs 1948-1970s / David R. Hocking. -- *In* The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1998, 47, 16-33 : ill., maps (1 col.). -- 5 notes & [12 refs]. -- Includes summary of aerial photography development in Australia from 1920s to 1998. Paper read to the Australian Map Circle Conference, Univ. of Wollongong, Feb. 1998. -- ISSN 03111-3930.

National Mapping / Dave Hocking, Department of National Resources, Melbourne, Division of National Mapping. -- *In* The Globe: journal of the Australian Map Circle, Inc. (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1976, 5/6, 16-17. -- Status report on current mapping programs and services.

Star tracking for mapping -- an account of Astrofix surveys by the Division of National Mapping during 1948-1952 / David R. Hocking. -- *In* Technical Papers, Australian Survey Congress (27<sup>th</sup> : 1985 : Alice Springs), Paper 3, 13-27 : 13 ill., 1 map. -- 9 refs. -- Describes National Mapping's field survey activities for fixing position, barometer heighting and air photo identification used for compiling the 4 mile and 1:250 000 topographic map series.

**Holden, G. F. J.**

Future topographic mapping programme for Australia / G. F. J. Holden. -- *In* Technical Papers, International Cartographic Association Conference (12<sup>th</sup>: Aug. 1984 : Perth, Australia), 2, 125-133 : 2 tables. -- 4 refs. -- Paper deals with the current status of topographic mapping includes some recommendations for new directions.

**Honan, C. S.**

Mapping in Australia / C. S. Honan. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), March 1939, 7, 5, 269-272. -- Describes the Victorian contribution towards inaugurating a national scheme for mapping the continent.

**Horn, John and Wise, Paul**

The use of geocoded satellite images for map revision / John Horn and Paul Wise, Australian Centre for Remote Sensing, Australian Surveying and Land Information Group. -- *In* Technical Papers, Australian Cartographic Conference (8<sup>th</sup> : 1990 : Darwin), 81-91 : 5 figs., 2 tables. -- Describes geocoding process and the possibility of using this data for map revision

**Hunt, J. F.**

Military map makers in northern Australia 1943-45: No. 1 Section 6 Aust. Army Topographical Survey Coy. : how, why, where and when they operated / compiled and edited by J. F. Hunt ; contributing editors Kevin J. Noonan and Joe E. Dowling. -- Apollo Bay, Vic. : J. F. Hunt, 1998. -- 125 p. : ill., maps, portr. ; 31 cm. -- Part describes their work in the Northern Territory. -- ISBN 0646354086.

**Hurren, A. F.**

The geodetic survey of Australia / A. F. Hurren, Officer in Charge, Records Information and Research, Division of National Mapping. -- *In* Cartography (Canberra: Australian Institute of Cartographers), March 1959-60, 3, 1, 38-48. -- History of the development of the survey. -- 14 refs.

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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**

Report on the need for a geodetic and topographical survey of Australia : report prepared at the request of the Development and Migration Commission / The Committee. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), 1930, 2, 1, 6-19. -- Appendices pages 14-19: i. Trigonometric surveys in the Commonwealth. ii. Geodetic and topographic surveys of other

- countries. iii. The need for accurate topographic maps in defence. iv. Duties of the Director General of the Geodetic Survey. – Contents page gives journal numbering as 1929, vol 2. no.1.
- Second report on the need for a geodetic and topographical survey for Australia / The Committee. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1935, 5, 6, 352-361. – Summarises previous conferences and reports on the subject and resolutions passed. Puts forward a costed scheme for the survey and makes final recommendations to government.
- Institution of Surveyors, Australia. Mapping and Charting Standing Committee**  
The status of medium scale topographic mapping in Australia (extract from a report to ISA Council meeting, 2 Oct. 1987) / Mapping and Charting Standing Committee. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Dec. 1987, 33, 8, 781-789 : 7 maps.
- Institution of Surveyors, Australia. Research Committee.**  
Mapping and charting of Australia including the Submerged Lands of the Exclusive Economic Zone : Submission made to the Minister of National Development, November 1978 / Research Committee of the Institution of Surveyors, Australia. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Dec. 1978, 29, 4, 286-290 : 1 table.
- Institution of Surveyors, Australia and the Australian Institute of Cartographers**  
Mapping of the Australian land mass / Australian Institute of Cartographers and the Institution of Surveyors, Australia : further meeting with the Minister of National Development and Energy on February 7<sup>th</sup> 1983. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Mar. 1983, 31, 5, 344-348 : 2 figs.
- Institution of Surveyors, Australia. New South Wales Division**  
Preparation of maps – Deputation to the Minister / New South Wales Branch, I. S. A. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1934, 5, 2, 95-96.
- Institution of Surveyors, Australia. Victorian Division and the Australian Institute of Cartographers**  
Mapping Victoria – a report / prepared by [a Committee of the] Victorian Division of the Institution of Surveyors, Australia and the Australian Institute of Cartographers, July 1982. – [Melbourne : The Committee, 1982]. – 5 p., 2 p., 2 p., 3 p. ; 29.5 cm. Processed. Includes two appendices of questionnaire forms and a third appendix with list of respondents. Identifies the need for increased mapping of the state of differing types. Ten recommendations are made to the Minister of Lands.
- Intergovernmental Committee on Surveying and Mapping**  
Report of the Intergovernmental Committee on Surveying and Mapping. – Belconnen, A.C.T. : ICSM, 1997. – 12 p. ; 30 cm. – Brief reports on major topics undertaken.  
see also Baker, Graham and Irwin, Bob
- International Council of Scientific Unions. Working Group on Geodesy and Cartography**  
Catalogue of Antarctic maps and charts / compiled on behalf of the Scientific Committee on Antarctic Research [by the Working Group on Geodesy and Cartography] – Ed. 4 rev. – Canberra, [A.C.T.] : Division of National Mapping, Department of Minerals and Energy, 1976. – v. [looseleaf] ; 24 x 37 cm. – Bibliogs. Preface in English, French, Russian and Spanish.
- Catalogue of topographic maps, aeronautical and hydrographic charts of the Antarctic / compiled on behalf of the Scientific Committee on Antarctic Research [by the Working Group on Geodesy and Cartography]. – 3<sup>rd</sup> ed. – Canberra, [A.C.T.] : Division of National Mapping, Department of National Development, 1969. – 149 leaves ; 22 x 33 cm. – First ed. prepared by the Special Committee on Antarctic Research.  
see also Scientific Committee on Antarctic Research
- Jensen, Peter A.** see **Australia. Army. Directorate of Military Geographic Information**
- Johnson, H. A.**  
Geodetic surveys through the Australian sandridges / by H. A. Johnson. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Sept. 1964, 20, 3, 157-184 : 6 ill., 1 fig., 1 map.  
The high-level geodetic survey of New Guinea / H.A. Johnson. – Canberra, [A.C.T.] : [Department of National Development], March 1969. – 170 p. : 7 ill., 1 fig., 1 table, 2 maps. -- (Technical report / Department of National Development, Division of National Mapping) ; 8. – Also in [Papers], Australian Survey Congress (12<sup>th</sup> : 1969 : Melbourne), 127-170 : ill., 1 table fold., 3 maps (2 fold.)
- Johnson, Richard**  
Mapping New South Wales / Richard Johnson. -- *In Geography Bulletin* (Sydney: Geographical Society of New South Wales), Jan. 1985, 17, 249-250 ; 21 cm. – Briefly covers 1947 to 1985 New South Wales mapping.

**Johnston, D.**

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: Australian Institute of Cartographers), Jan. 1973, 8, 1, 19-22 : 4 fig. -- Describes the new referencing system for metric mapping.

**Johnston, F. M. (Frederick Marshall)**

Australian organisation for a) cadastral surveys b) topographical mapping / F. M. Johnston. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Mar.-June 1948, 12, 1&2, 63-71. -- Paper delivered to the Empire Survey Conference, 1947. -- Deals briefly with trigonometric surveys in each state followed by a discussion of early military mapping and the International Map of the World cartography carried out by the Department of the Interior. There is reference to the Commonwealth Survey Committee and the establishment of the National Mapping Council of Australia.

Report on mapping activities in Australia as at 30<sup>th</sup> June, 1948 / by F. M. Johnston, for presentation to the Social and Economic Council of the United Nations Organisation. -- Canberra, A.C.T. : Dept. of the Interior, 1948. -- 8 leaves : 10 fold. maps (some col.) ; 34 cm. -- Report on surveying Australia.

**Kennedy, G. H. C.**

An integrated programme of surveying and mapping / G.H.C. Kennedy. -- *In Proceedings, Australian Survey Congress* (13<sup>th</sup> : 1970 : Adelaide), 2:1-2:15 : 5 figs. -- Bibliog.: 10 refs. -- An address given to the 6<sup>th</sup> Survey Congress, Adelaide, 1962. -- Describes current planning proceedings and experience gained in South Australia with map series for 1:2 500 - 1:50 000 scales.

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.

South Australian mapping / G. Kennedy (Surveyor-General of South Australia). -- *In The Globe: journal of the Australian Map Circle, Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1976, 5/6, 11-15. -- Account of beginnings of topographical mapping by the Royal Australian Survey Corps in 1934. Description of work carried out by the Lands Department to date.

**Kilminster, M. H.**

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.

**Kirby, S. L.**

Airborne heighting during Australian National Antarctic Research Expedition (A.N.A.R.E.) 1960 / S. L. Kirby, surveyor with A.N.A.R.E., 1956 and 1960. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Dec. 1963, 19, 8, 439-449 : 3 figs, 2 tables, 1 map. -- Reports on field and office techniques used by the Division of National Mapping when employing the method described in the "Bureau of Meteorology's Working Paper 57/1349—October, 1959 barometric determination of height / by G.U. Wilson".

**Knibbs, G. H.**

Review of T. F. Furber's 'The trigonometrical survey of New South Wales, with mention of similar surveys in other Australian colonies' / G. H. Knibbs. -- *In The Surveyor* (Sydney: Institution of Surveyors, New South Wales), 15 Mar., 1899, XII, 3, 78-82.

**Laing, A. W.**

The end of an era : a short history of the Royal Australian Survey Corps' involvement in mapping, charting and geodesy in Papua New Guinea in the period 1942-1995 / A.W. Laing. -- [Hackett, A. C. T. : A. W. Laing, 1997]. --16 leaves ; 21 cm.

**Lambert, B. P.**

Air photography and topographic mapping in Australia / B. P. Lambert, Director of National Mapping, Department of National Development. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (5<sup>th</sup> : 1967 : Canberra), v. 2, 27-32 : 4 figs., 1 table. -- Progress report on cartographic activities since Jan 1963-Dec. 1965 -- Agenda item

6. Scales from 25 000-250 000 by the Division of National Mapping, Army, Department of the Interior and by state Lands departments. -E/CONF.52/L.1
- The Australian geodetic survey - an interim report on the utilisation of electronic distance measuring equipment / B. P. Lambert, Director of National Mapping. - *In Report of Proceedings, Conference of Commonwealth Survey Officers* (8<sup>th</sup> : 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.
- Cartographic activities in Australia from 1 January 1967 to 3<sup>rd</sup> December 1969 / B. P. Lambert, Division of National Mapping, Department of National Development. - *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (6<sup>th</sup> : 1970 : Tehran), v. 2, 17-24 : 5 figs., 6 col. maps (in pocket). - Pages 17-21 cover topographic mapping. - Also deals with Papua and New Guinea. - Annexure A. National geodetic survey as at 31<sup>st</sup> Dec. 1969. - Annexure B. National levelling survey as at 31<sup>st</sup> Dec. 1969. Annexure C. Australia air photographs as at 1<sup>st</sup> March 1970 (shows Commonwealth and state coverage at 1:80 000 and other scales). Deals with the 1:100 000 and 1:250 000 series..
- A figure of the earth for Australia / B. P. Lambert, Director of National Mapping, Canberra, A.C.T. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Sept. 1962, 19, 178-185 : 11 refs. - Paper given to the 1962 Conference of the Australian and New Zealand Association for the Advancement of Science. -- A provisional figure for Australia is scheduled for 1965.
- Further report on the Australian national geodetic survey / B. P. Lambert, Director of National Mapping. - *In Report of Proceedings, Conference of Commonwealth Survey Officers* (10<sup>th</sup> : 1971: Cambridge), 58-62 : 3 tables, 6 maps (some col.). - An update with some comments on future developments. - 8 Annexes. A. National geodetic survey. B. National levelling survey. C. Misclosure of loop of primary geoidal profiles. D. Misclosure of all loops of geoidal profiles. E. Differences in elevations at tide gauges. F. Data form field books. G. Australia - geoid contour maps. H. Papua New Guinea- Preliminary geoid contour maps.
- 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 geodetic survey of Australia / B. P. Lambert, Director of National Mapping, Department of National Development. - *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (5<sup>th</sup> : 1967 : Canberra), v. 2, 126-131 : 6 figs. - Annexure. Closure of Trans-Australian traverse (to be read with figure 6) - History from 1912-1966. - E/CONF. 52/L.51.
- Geodetic surveying in Antarctica, 1967-1970 / by B. P. Lambert. - Canberra, [A.C.T.] : Division of National Mapping, Department of National Development, 1971. - 22 leaves : fold. map ; 29 cm. -- Report presented to the 15<sup>th</sup> General Assembly of the International Union for Geodesy and Geophysics and the International Association of Geodesy, Moscow, 1971. - ISBN 0642956006.
- The geodimeter and its uses / by B. P. Lambert. [Paper given to the Institution of Surveyors, Australia, 3<sup>rd</sup> 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.
- The Johnson Geodetic Survey station / B. P. Lambert. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1968, 22, 2, 93-95 : 2 ill.
- Mapping under pressure / by B. P. Lambert, Director of National Mapping, Division of National Mapping, 1963. - *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Mar. 1966, 21, 1, 711-716. -- Paper given to the United Nations Conference on Science and Technology, Geneva.
- 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.

National Mapping / B. P. Lambert. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1973, 25, 2, 163-167. -- A review of achievements of the Division of National Mapping.

The National Mapping Council of Australia -- forty years on / B. P. Lambert. -- *In Cartography* (Canberra: Australian Institute of Cartographers), Sept. 1985, 14, 2, 112-115 : ill. -- Reviews achievements of the Council from 1945. Photograph of Council.

National Mapping Council report on map co-ordinate systems -- 1976 / B. P. Lambert. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Mar. 1977, 28, 5, 299-302.

Production of small and medium scale maps with the use of orthophotography / B. P. Lambert, Director of National Mapping. -- *In Report of Proceedings, Conference of Commonwealth Survey Officers* (10<sup>th</sup>: 1971: Cambridge), 149-157: 2 col. pl. -- Annexe A. Notes on contouring between spot heights. -- B. Orthophotomaps production times.

Retirement of B. P. Lambert *In Cartography* (Canberra: Australian Institute of Cartographers), Jan. 1977, 10, 1, 11 : 1 portr.

Topographic mapping in Australia : development 1945-1975 / B. P. Lambert. -- *In [Technical Papers], Australian Cartographic Conference (2<sup>nd</sup> : 1976 : Adelaide), Section 13, 1-14 : 1 fig. -- 3 refs. Appendix headed 'National Mapping Council of Australia' gives the Australian Geodetic Datum, Height Datum and Map Grid.*

The use of Aerodist for filling in between Tellurometer traverse loops / B. P. Lambert, Director of National Mapping. -- *In Report of Proceedings, Conference of Commonwealth Survey Officers* (9<sup>th</sup> : 1967 : Cambridge), Paper 3B, 93-104 : 3 tables, 3 maps. -- 5 refs. -- Includes 7 Annexes. A. Report of precision obtained in various Aerodist survey operations. B. Investigations into error patterns in block adjustments or trilateration models. C. Diagram illustrating Australian 10 year 1: 100 000 scale topographic mapping programme. D. Diagram illustrating the present states of horizontal control surveys in New Guinea. E. Investigations into horizontal control required for 1:100 000 scale mapping. F. Comparisons of relative cost and time factors between Aerodist and Tellurometer survey in Australia.

#### **Lambert, B. P. and Leppert, K.**

A study of the Australian National Levelling survey / B. P. Lambert and K. Leppert. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), June 1976, 28, 2, 89-95. -- 7 refs. -- Establishing a height datum quickly. Annexe A shows Division of National Mapping's Rapid first order levelling (p.85).

#### **Larden, D. R.**

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 (25<sup>th</sup> : 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.*

#### **Larsgaard, Mary**

Topographic mapping of the Americas, Australia, and New Zealand / Mary Lynette Larsgaard. -- Littleton, Colo. : Libraries Unlimited, 1984. -- xii, 180 p. ; 25 cm. -- Bibliogr. : p. 113-70. -- ISBN 0 872 87276 9.

#### **Law, P. G.**

Surveying the last continent / P. G. Law. -- *In Cartography* (Canberra: Australian Institute of Cartographers), Dec. 1970, 7, 2, 76-86. -- Address to the annual Survey Congress, Institution of Surveyors, Australia. -- A history describing the problems of ice and weather.

#### **Lawford, G. J. and Smith, C. J. H.**

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Letter to the Editor, Australian Surveyor, re T. C. Sargent's 'The Royal Australian Survey Corps 1915-1990' / J. D. Lines. - In Australian Surveyor (Sydney: Institution of Surveyors, Australia), March 1995, 40, 1, 66-67. - Comments on the genesis of the National Mapping Council of Australia, on Australia's 'golden age' of mapping activity, on the Advisory Committee on Commonwealth Mapping (ACOCM) and its successor the Intergovernmental Committee on Surveying and Mapping (ICSM) and the RASvyC offshore mapping activities in neighbouring countries.

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#### **Love, A. R.**

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**McRae, Heather**

Soldier surveyors : a history of 3 Australian Field Survey Company (AIF) 1940-1945 / Heather McRae and the 3 Australian Field Survey Company (AIF) Association. - [Sunbury, Vic.] : The Association, 1996. - vi, 154 p. : ill., maps (some col.), portr. ; 30 cm. - Includes an account of the New Guinea campaign. - ISBN 064626480X.

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Accuracy checks on topographic maps / J. Manning. -- *In* Technical Papers, Australian Survey Congress (25th : 1983 : Melbourne), 163-169 : 2 figs. - 14 refs. - Standards are set by the National Mapping Council of Australia. The selection of suitably well defined points becomes critical within the statistical statement of the NMC map accuracy definition.

The AUSLIG laser airborne profiling system / J. Manning, AUSLIG. -- *In* Technical Papers, Australian Survey Congress (31st : 1989 : Hobart) and in National Surveying Conference (1st : 1989 : Hobart), 1-9. - 3 refs. -- Vertical control for photogrammetric plotting from aerial photography for 1:50 000 and 1:100 000 provided by airborne profiling techniques. This paper describes airborne laser profiling currently in use by the Australian Land Information Group.

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From aerial photography to remote sensing - a history of aerial photography and space imagery acquisition in Australia / John Manning, Surveying and Land Information Group, Dandenong. -- *In* Technical Papers, Australian Cartographic Conference (7th : 1988: Sydney), 300-318 : 2 figs., 5 tables. - Bibliogr.: 317-8. - Developed as a mapping tool during WWI. Traces developments.

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

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

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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.

Large scale topographical mapping / by C. E. Middleton. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), Sept. 1963, 19, 7, 409-416. -- Paper presented to the 5th Survey Congress, March 1960, Melbourne -- Account of the Melbourne Metropolitan Board of Works 400 feet to an inch series.

**Miller, Ian**

Australian Land Information Group (AUSLIG) / Ian Miller. -- *In The Globe: journal of the Australian Map Circle, Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1989, 31, 28-30. -- Report on current mapping programs and services.

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Crossroads of mapping / J. E. Mitchell, Surveyor-General, Victoria. -- *In The Globe: journal of the Australian Map Circle Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1975, 4, 3-15. -- History of the mapping of Victoria from 1836 to 1975.

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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.**

Land information systems in Australia / J. F. Morgan, Surveyor General, Dept. of Lands and Surveys, Western Australia. -- *In Report of Proceedings, Conference of Commonwealth Surveyors* (1979 : Cambridge), Part I, Paper F2, 17 p. -- Covers New South Wales, Northern Territory, South Australia and Western Australia, discusses computerisation of manual systems. Plea for standardisation of procedures but relevant to all types of mapping.

Report on the Central North Kimberley region / by John F. Morgan, leader North Kimberley Survey and Mapping Expedition, 1954. -- [Perth, W.A.] : Western Australia, Department of Lands and Surveys, 1955. -- 69 p. : 49 ill., 1 col. map, fold.  
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* (16<sup>th</sup> : 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* (7<sup>th</sup> : 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**

Commonwealth of Australia report to the United Nations Third Regional Cartographic Conference for Asia and the Far East, Bangkok (Thailand), 27<sup>th</sup> October-10<sup>th</sup> November, 1961. -- Canberra, [A.C.T.] : s.n., 1961? -- [6] leaves, [6] folded leaves of plates : col. maps ; 30 cm. -- "This report is a consolidation of the work carried out under the guidance of the National Mapping Council of Australia" -- Introd.

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.

Map catalogue - Australia : national mapping series, December 1976 / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of National Resources, Canberra, ACT, Australia. -- Canberra, [A.C.T.] : The Council, 1976. -- 76 leaves ; 30 cm. -- Accompanied by a microfiche : Map Catalogue - Edition 1 18/5/77 (15 x 11 cm.)

Recommended procedures for the interchange of small and medium scale digital vector topographic mapping data / prepared by the National Mapping Council of Australia. -- [Canberra, A.C.T.] : National Mapping Council of Australia, 1985. -- 9 p. ; 30 cm. -- (Special publication (National Mapping Council of Australia) ; 12. -- ISBN 0642516421. -- A standard for digital mapping.

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- Report on work completed during the period 1945-1975 / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of National Resources. – Canberra, A.C.T. : Division of National Mapping, 1976. – [2] leaves, 97 leaves of col. maps ; 30 cm. – Includes: Australia. Mapping, 1945-1975. Papua New Guinea. Mapping, 1945-1975. Antarctic Mapping, 1945-1975.
- Resolutions adopted 1966-1975 / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of Minerals and Energy, Canberra, A.C.T., Australia. – Canberra, A.C.T. : The Department, 1975. – 25 leaves ; 30 cm.
- Resolutions in force June 1986 / National Mapping Council of Australia. – [Canberra, A.C.T.] : The Council, [1986?] – 7 p., 12 leaves ; 22 cm. – Caption title. Cover title: Draft NMC resolutions. Includes index. – Deals with government policy and standards for surveying and cartography in Australia.
- Standard definition of terms used in photogrammetric surveying and mapping / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of the Interior. – Canberra, [A.C.T.] : [s.n.] , 1954. – 47 p. ; 33 cm.
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- Standards of map accuracy / prepared on behalf of the National Mapping Council of Australia by the Director of National Mapping, Department of National Development. – Canberra, [A.C.T.] : National Mapping Council of Australia, 1953. – [1] leaf ; 30 cm. – (Special Publication / National Mapping Council of Australia ; 3).
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- Statement of activities / National Mapping Council of Australia. – Canberra, [A.C.T.] : The Council, 1945-1986. – Contains annual reports of the Division of National Mapping.  
see also Johnston, F. M., Lambert, B. P., Lines, J. D. and Spencer, P. A.
- National Mapping Council of Australia. Meeting**
- National Mapping Council of Australia ... meeting, held at ... , September 1945-1987. -- Issued in parts: 1, 2, 2A, 3, 3A, 3B, 3C, 3D. -- Title includes the number of the meeting, the venue and date held. Venue varies. The first meeting was held 18<sup>th</sup> September 1945 and thereafter six monthly until 1948. In 1949 became an annual meeting. No meeting was held in 1951. Includes:
- Report of proceedings. – 1945-1949. -- ill., maps ; 27 x 34 cm. -- Later title: Summary of proceedings. (1950-1958). Succeeding title: Reports from members and other annexures, Part 2. (1959–1972). Succeeding title: Reports by council members. Part 2. (1973-1986). Succeeding title: Summary of Proceedings. Part 1. – Title includes the dates of the programme.
- Commonwealth and State mapping programme from ... Part 2A. – v. chiefly maps ; 27 x 34 cm. – Title includes the dates of the programme, venue of meeting varies. Description based on 17<sup>th</sup> 1959.

Consolidated forecasts of topographic mapping, part 3. -- chiefly maps ; 30 x 42 cm. -- Also titled: Proceedings, Part 3. Description based on 1986. Former titles: National Mapping Council of Australia. Meeting. Technical Sub-Committee summary of proceedings, part 3. Also titled: National Mapping Council of Australia. Technical Sub-Committee. Meeting. Proceedings. Part 3. Description based on 1980 issue. Also titled : Proceedings. Part 3 / National Mapping Council of Australia, 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).

**National Mapping Council of Australia. Specifications Working Party**

Report 1:50 000 and 1:25 000 topographic map series / by the Specifications Working Party. [Canberra, A.C.T.] : The Working Party, 1973. -- v. (various pagings) : ill., (some col.), maps ; 30 cm. -- "Accompanies the Draft Specifications for 1:50 000 and 1:25 000 mapping" -- [Introd.] -- "REGT/MISC/0694A". Contains topographic map specifications.

see also Manning, John

**National Mapping Council of Australia. Technical Advisory Committee. Meeting**

Report / National Mapping Council of Australia, Technical Advisory Committee, ... Meeting. -- [Belconnen, A.C.T.] : National Mapping Council of Australia, 1984-1986. -- v., maps ; 30 cm.

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

Report / National Mapping Council of Australia Technical Sub-Committee. -- Melbourne, Vic. : The Council, 1948-86?. -- v. ; 34 cm. -- Title includes the number of the meeting, the venue and the date held. Venue varies. The first meeting was held in 1948. Early issues are processed. Later titles: Summary of proceedings ... (1950-1958). Succeeding title: Technical Sub-Committee reports, Part 3. (1959-1965?) Later split into parts 3A, 3B, 3C, and 3D as : Technical Sub-Committee proceedings. Part 3A (General) 1966-73 ; Technical Sub-Committee proceedings. Part 3B (Field Survey) Part title varies slightly ; later issues called: (Control surveys) 1966-73 ; Technical Sub-Committee proceedings. Part 3C (Aerial photography and photogrammetry) 1966-73 ; Technical Sub-Committee proceedings. Part 3D (Cartography) 1966-73 ; All part 3s merged to become Proceedings. Part 3. Variant title: Technical Sub-Committee summary of proceedings, part 3. (1974-1980). Succeeding title: National Mapping Council of Australia. Meeting. Consolidated forecasts of topographic mapping, part 3. See above under National Mapping Council of Australia. Meeting.

**National Mapping Council of Australia. Working Party on the Cost Benefit of Using Remotely Sensed Satellite Data for Mapping**

Final report / NMC Working Party on the Cost Benefit of Using Remotely Sensed Satellite Data for Mapping. -- [Canberra, A.C.T.] : National Mapping Council of Australia, 1984. -- 46 p. in various pagings : ill., maps ; 30 cm. -- Bibliogs.

**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**

Annual report / Department of Land and Water Conservation. -- Sydney, The Department, 1994/95-1996/97. -- 2 v. ; 29 cm. -- Contains details of map production.

**New South Wales. Department of Lands**

Annual report[s] on the Trigonometrical Survey of New South Wales / Surveyor General. -- In New South Wales. Department of Lands. Annual report[s]. -- Sydney, Govt. Printer, 1881-1912, 1914. -- These extracts are usually 3 or 4 pages.

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.

Extract from Annual Report, Lands Department, 1913, [followed by] Annual report by Surveyor-General, and Report on Trigonometrical Survey. -- Sydney : William Applegate Gullick, Government Printer, 1914. -- 16 p.

Report of the Department of Lands. – Sydney, The Department, 1880–1981. – [Sydney] : Govt. Printer, 1881-1982. – v. ( various pagings) : ill. ; 25 cm. – Ceased with the 101<sup>st</sup> report in 1981. Merged with New South Wales. Department of Local Government. Report of the Department . . . Then with the Department of Local Government and Lands. Annual report. Also published as a Parliamentary Paper. Other title : Annual report. -- Includes reports of the Land Information Centre relating to mapping activities. In 1991 the Department of Conservation and Land Management was created incorporating the former agencies of the Department of Lands.

Report on measurement of base of verification to the Surveyor General / W. J. Conder, Superintendent of Trigonometrical Surveys, 20<sup>th</sup> January 1881. – *In* Appendix to Annual report of the Department of Lands 1881 *and In* New South Wales. Parliament. Legislative Assembly. Votes and Proceedings. 1881. – PP No. 1/81. – 4 p.

see also Adams, P. F., Anon., Baker, W. C. and Mathews, H. B., Bayliss, R. V., Beaver, P., Campbell, W. D., Chesterman, Alfred Henry, Fitzgerald, L., Furber, T. F., Higgins, N. J., Johnson, Richard, Johnston, F. M., Kilminster, M. H., Knibbs, G. H., McLean, J. B., Poate, F., Smalley, G. R., and Tucker, K. J.

#### **New South Wales. Department of Local Government and Lands**

Aerial photography, surveys and mapping. -- Sydney, N.S.W. : N.S.W. Department of Local Government and Lands, 1974-1987. – v. , no. 35 – 87.

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)**

Report / Government Mapping Investigation Committee. – Sydney : The Committee, 1946. – 11, [2] p. ; 33 cm. – A general investigation of requirements includes a small amount on topographical mapping.

#### **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.

see also Central Mapping Authority of New South Wales, New South Wales. Department of Conservation and Land Management, New South Wales. Department of Information Technology and Management, New South Wales. Department of Land and Water Conservation, New South Wales. Department of Local Government and Lands, New South Wales. Land Information Centre, and New South Wales. Lands Department for earlier issues.

#### **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: Licalogue 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 mapping and spatial data / State Advisory Mapping Committee. – [Sydney, N.S.W.] : N.S.W. State Mapping Advisory Committee, 1993-2000. – various pagings : maps ; 29 cm. – Index maps.

Report on mapping and digital spatial data collection activities in NSW 1990/91 – [Bathurst, N.S.W.] : New South Wales State Mapping Advisory Committee, [1991?] – 22 p., [12] fold. leaves of plates : maps ; 30 cm.

Reports submitted at the . . . meeting / N.S.W. State Mapping Advisory Committee. – [Sydney, N.S.W.] : [ The Committee], 1961-2000. – v. ; 33 cm. – Description based on the 5<sup>th</sup>, 1961.

Summary of proceedings 1957-1960 ; Minutes (of annual meetings) 1961-2000 / The Committee. – Sydney, The Committee, 1961-2000. -- Annual ; 33 cm.

**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.

Catalogue of maps and plans printed and published by the Surveyor General's Department, Sydney, New South Wales. – [Sydney] : Govt. Printer, January 1883. Another issue for 1890. – v. ; 25 cm. – Title varies slightly. Later issues published by the Department of Lands. Has Supplements.

Report from the Commissioners Appointed to inquire into the Surveyor General's Department, with Minutes of Evidence and Appendix. – Sydney: Govt. Printer, 1855. – v. 1., 15 p. , v. 2., 87 p. + 31 p. – vol. 1. Report. – vol. 2. Minutes. – vol. 3. Appendix.

**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, 30<sup>th</sup> 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.

Statement of mapping activities. – [Darwin, N.T.] : Survey and Mapping Division, Department of Lands. –v. ; 29 cm. – Description based on 1982-1983. Later title: Northern Territory. Mapping and Information Division. – ISSN 0819-2367.

**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**

Map and product catalogue November 1995 / Land Information Centre. – [Darwin, N.T.] : Department of Lands, Planning and Environment, 1995. – 7 p. ; 30 cm. – Contains lists of maps, guides, street directories and globes from many sources, including Australian and overseas.

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 (1<sup>st</sup>: 1982 : Canberra), and Australian Cartographic Conference (5<sup>th</sup>: 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.

Papua New Guinea see Australia. Army. Royal Australian Survey Corps, Australia. Division of National Mapping, Commonwealth Survey Committee Meeting, Johnson, H. A., National Mapping Council of Australia, Thomson, W. A.

**Paxton, Ian**

Digital developments at N[ew] S[outh] W[ales] Land Information Centre / Ian Paxton. -- *In The Globe: journal of the Australian Map Circle, Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1995, 43, 68-69.

**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 and Energy. -- *In Technical Papers, International Cartographic Association Conference (12<sup>th</sup> : Aug. 1984 : Perth, Australia)*, 2, 13-22 : 1 fig. -- 4 refs. -- Paper outlines the procedure used for updating maps.

**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.**

The trigonometrical survey of New South Wales / F. Poate. -- *In The Surveyor* (Sydney: Institution of Surveyors, New South Wales), May 31, 1913, XXVI, 95-103 and *In Aug. 30, 1913, XXVI, 169-176* and *In Sept., 1913, XXVI, 193-199.*

**Prescott, Dorothy F.**

Review of John D. Lines *Australia on Paper: The story of Australian mapping* / by Dorothy F. Prescott -- *In Historical Records of Australian Science* (Canberra: Australian Academy of Science), 9, 3, 300-302.

**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**

Annual report of the Department of Geographic Information / Department of Geographic Information. -- Brisbane, Qld. : The Department, [1988/1989] -- 2 v. : maps ; 30 cm. -- Former title: Queensland. Department of Mapping and Surveying. Annual report 0157-0218. -- Later titles: 1) Surveyors Board of Queensland. Annual report. 2) Queensland. Department of Lands. Annual report. 3) Queensland. Lands Department. Annual report of the Land Administration Commission 4) Queensland. Department of the Valuer General. Annual report. 5) Queensland. Department of Freehold Land Titles. Annual report 1034-3520. -- Contains reports on mapping and surveying. --- ISSN 1 032 7320.

**Queensland. Department of Lands**

Catalogue of Queensland maps and land information. -- [Brisbane, Qld.] : Department of Lands, 1991. -- v. : ill., maps ; 30 cm. -- Contains Part A. Maps and aerial photography. -- Former title: Queensland. Department of Mapping and Surveying. Catalogue of Queensland Maps 0811-3793. -- Later title: Queensland. Department of Lands. Queensland land information directory. -- ISSN 1038-0973.

**Queensland. Department of Mapping and Surveying**

Annual report / Department of Mapping and Surveying, Queensland. -- Brisbane, [Qld.]: Department of Mapping and Surveying, 1976-[1987]. -- 10 v. : maps ; 34 cm. -- Former title: Queensland. Survey Office. Annual report of the Surveyor-General. -- Later title: Queensland, Department of Geographic Information. Annual report . . . 1032-7320. -- Contains reports on surveying and mapping.

Catalogue of Queensland maps / prepared by the Department of Mapping and Surveying. -- [Brisbane, Qld.] : Queensland Surveying and Mapping Advisory Council, 1983-1988. -- v. : ill. ; 30 cm. -- Former title: Queensland Surveying and Mapping Advisory Council. Pictorial index of Survey and mapping activities to 30<sup>th</sup> June 0157-8138. -- Later title: Queensland. Department of Lands. Catalogue of Queensland maps and land information 1038-0973. -- Shows coverage of Queensland maps at various scales. -- 0811-3793.

Orthophotomapping for the market place: the Queensland experience. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific (10<sup>th</sup> : 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 30<sup>th</sup> June / prepared and published by the Department of Mapping and Surveying and Office of the Surveyor General. - Brisbane, Qld. : The Department, 1979-82. - 4v. : 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 (1<sup>st</sup> : 1982 : Canberra) and Australian Cartographic Conference (5<sup>th</sup> : 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**

Annual report of the Surveyor-General. - Brisbane, [Qld.] : Survey Office, 1975. - v. : maps ; 34 cm. - Later title: Queensland. Department of Mapping and Surveying. Annual report. - Contains reports on surveys.

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.

Report of surveying and mapping activities / prepared [by] Department of Mapping and Surveying. - Brisbane, Qld. : Queensland Surveying and Mapping Advisory Council, 1978- . v., 112 p. : 1 map ; 30 cm. - Annual. - 1985 issue available on monochrome micro fiche. At head of title: Queensland Surveying and Mapping Advisory Council. Description based on 1984-1985 issue.

Covers all departments producing maps. - ISSN 0157 812X.

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

#### **Quilty, Patrick**

Surveyors and their products - mapping in the Antarctic / Patrick Quilty. -- *In* Technical Papers, Australian Survey Congress (39<sup>th</sup> : 1997 : Launceston), 1-11. - 19 refs. - Provides historical perspectives on the history of surveying and mapping and outlines problems for surveyors and mapmakers.

#### **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.**

How New South Wales was mapped in a generation : a saga of achievement / H. S. Rassaby. -- *In* Cartography (Canberra: Australian Institute of Cartographers), June 1994, 23, 1, 19-45 : ill., maps.

#### **Reilly, S. E.**

Soldiers and surveyors / S. E. Reilly. -- *In* Australian Surveyor (Sydney: Institution of Surveyors, Australia), Mar. 1983, 31, 5, 315-326. - 16 refs. Pages 320-326 on Australia.



**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.**

The adjustment of the Australian Levelling Survey 1970-71 / Roelse, E., Granger, H. W. and Graham, J. W. - Canberra, A. C. T. : Department of National Development, 1975. - 2<sup>nd</sup> ed. - 81 p. various pagings : ill., maps (some col.) ; 29 cm. - (Technical report. Australia. Division of National Mapping) ; 12. - Bibliog.: p.80-81.

**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). - 2<sup>nd</sup> 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.

Flight information publication. Planning Part 4. Aeronautical chart catalogue incorporating chart amendment document. - [Melbourne : Aeronautical Information Section, Royal Australian Airforce]. - Annual. - v. ; 30 cm. - Updating publication for the Topographical chart section includes series at 1: 2 million, 1:1 million, 1:500 000 and 1:250 000 scales. Indexes and alphabetical chart listings.

**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 9<sup>th</sup> National Surveying Conference. -- Deals with use of aerial photography for updating series mapping by the Division of National Mapping.

**Sargent, T.C.**

The Royal Australian Survey Corps, 1915-1990 / by Clem Sargent. - [Canberra, A.C.T. : Royal Australian Survey Corps], 1995. - [Rev. ed.]. - 23 p. : ill., col. maps ; 30 cm. - Previously presented as a paper to the 1990 Australia War Memorial History Conference and published in *Sabretache*, the journal of the Military Historical Society of Australia in 1990 and in *The Australian Surveyor*, December 1994, p. 275-289.

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

**Scientific Committee on Antarctic Research**

Antarctica : a catalogue of maps and charts / Scientific Committee on Antarctic Research. -- 5<sup>th</sup> ed. - Belconnen, A.C.T. : Australian Surveying and Land Information Group, Department of Administrative Services, 1988. - v [loose leaf] : ill., maps ; 32 cm. - ISBN 0 642 5161 1

Catalogue of maps and charts of Antarctica / compiled on behalf of Special Committee on Antarctic Research. - Canberra, [A.C.T.] : Division of National Mapping, Department of National Development, 1960. - [3] leaves, 69 leaves ; 21 x 34 cm.

Catalogue of topographic maps, aeronautical and hydrographic charts of Antarctica / compiled on behalf of Scientific Committee on Antarctic Research. - 1<sup>st</sup> 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).
- Catalogue of topographic maps, aeronautical and hydrographic charts of the Antarctic / Scientific Committee on Antarctic Research, Working Group on Geodesy and Cartography. – 2<sup>nd</sup> ed. – [Canberra, A.C.T. : Division of National Mapping, Department of National Development], 1964. – 114 p. ; 22 x 33 cm. – Kept up to date by Amendment sheets. Processed.
- Catalogue of Antarctic maps and charts / compiled on behalf of the Scientific Committee on Antarctic Research. – 4<sup>th</sup> ed. – Canberra, [A.C.T.] : Division of National Mapping, Department of Minerals and Energy, 1974. – v. (various pagings) ; 23 x 36 cm. – Bibliogs. Limited distribution.  
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.
- Standard symbols for use on topographic maps of Antarctica / as approved by the Special [i.e. Scientific] Committee on Antarctic Research. – Canberra, [A.C.T.] : Division of National Mapping, Department of National Development, 1962. – 10 p. : diagrs. (part col.) ; 26 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.**  
Review of J. D. Lines 'Australia on Paper' / by L. M. Sebert. – *In Geomatica* (Ottawa: Canadian Institute of Geomatics), 1995, 49, 2, 234-237. – Review concentrates on the similarities and differences between the mapping programmes of Australia and Canada.
- 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**  
Mapping Macquarie Island / Patricia Selkirk and Don Adamson. – *In The Globe : journal of the Australian Map Circle, Inc.* (Melbourne: c/o Department of Geography, Univ. of Melbourne), 1995, 41, 53-67: 4 figs, 3 tables. – Bibliogr. p. 66-67. – Describes problems of mapping this island encountered by Australian Surveying and Land Information Group and Tasmanian Department of Environment and Land Management surveyors.
- 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* (23<sup>rd</sup> : 1981 : Sydney), 159-164.
- Skitch, Robert F.**  
Mapping Australia : a national overview / by Robert F. Skitch. – *In Cartography* (Canberra: Australian Institute of Cartographers), June 1991, 20, 1 : Supplement (July 1991), 18-29 : 4 maps. – Part of Australian Institute of Cartographers report to the International Cartographic Association. Report on status of topographic mapping for 1:100 000, 1:50 000 and 1:25 000 scales and digital topographic data.
- Mapping Australia : an historical overview / by Bob Skitch. – *In Cartography* (Canberra: Australian Institute of Cartographers), March 1987, 16, 2 : Supplement (Aug. 1987) 9-19 : 7 maps. – Part of Australian Institute of Cartographers report to the International Cartographic Association. Report on status of topographic mapping for 1:250 000, 1:100 000, 1:50 000 and 1:25 000 scales.
- Mapping Australia : national overview / by Robert Skitch et al. – *In Cartography* (Canberra: Australian Institute of Cartographers), June 1995, 24, 1 : Supplement (July, 1995), 13-19. – Part of Australian Institute of Cartographers report to the International Cartographic Association. Report on status of topographic mapping for 1:100 000, 1:50 000 and 1:25 000 scales and digital topographic data.
- 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.**  
Report to the Colonial Secretary recommending commencement of geodetic survey / G. R. Smalley, Government Astronomer. – *In New South Wales. Parliament. Legislative Council*, 18 August, 1865. – 2 p.
- Base line for triangulation of New South Wales (Progress Report) / G. R. Smalley. -- *In New South Wales. Parliament. Legislative Council*, 4 June, 1869. – 2 p. and 29 September, 1869. – 2 p.
- Smith, C. J. H.**  
The suitability of satellite imagery for revision of TOPO-250K GEODATA / C. J. H. Smith. – *In Proceedings, Australasian Remote Sensing Conference* (7<sup>th</sup> : Melbourne : 1994), 3, 139-144.
- South Australia. Department of Environment and Natural Resources**  
Mapping products / Department of Environment and Natural Resources, Resource Information Group. – Adelaide, S.A. : The Department, 1994. – v. (loose leaf) 19 p. : col. ill., col. maps. -- Contains leaflets describing map numbering and index maps to topographic, orthophoto, cadastral and digital map series availability.  
see under **South Australia. Department of Lands for earlier issue**
- South Australia. Department of Lands**  
Mapping products / Department of Lands, South Australia. – Adelaide, S.A. : The Department , 1984. – v. (loose leaf) 25 p. : col. ill., col. maps ; 30 cm. – Contains index maps to standard topographic series including national series at 1:250 000 and 1:100 000 scales. – Another issue for 1987.  
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.  
Mapping products / S. A. Department of Lands, Mapping Branch. – Adelaide, S.A. : The Department, 1991. – v. (loose leaf) 2 p., 20 p. : col. ill., col. maps ; 30 cm. – Contains leaflets describing map numbering and index maps to topographic, orthophoto, cadastral and digital sheet availability.  
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**  
A system for computer assistance in large scale map production. – *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Pacific* (10<sup>th</sup> : 1983 : Bangkok), v. 2, 459-461. – Description of system. – E/CONF.75/L.33.
- South Australia. Department of Lands. Survey Division.**  
Statement of activities in surveying and mapping for the period ... . – Adelaide, S.A. : Department of Lands, Survey Division. – 20 p. [15] p. – 11 maps (some col.).
- South Australia. Enquiry into the government mapping function in South Australia**  
Report of an enquiry into the government mapping function in South Australia. – Adelaide, S.A. : The Enquiry, 1981. – xxviii, 118, 34 p. ; 30 cm. – "July 1981". Bibliogr.: p. x.
- South Australia see also Fitzgerald, L., Furber, T. F., Hillier, N. R. J., Johnston, F. M.**
- South Australian Institute of Surveyors.**  
[Report of a public meeting on] The need for a Geodetic and Topographical Survey of Australia. – *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), March 1931, 3, 30-31.
- Spencer, G. R.**  
State mapping requirements, topographic : report / by G. R. Spencer. – [Melbourne?] : Department of Crown Lands and Survey, Victoria, 1973. – v. (unpaged) ; 30 cm.
- Spencer, P. A.**  
Administrative history of the Division of National Mapping / P. A. Spencer. -- *In Australian Surveyor* (Sydney: Institution of Surveyors, Australia), Sept. 1989, 34, 7, 674-681. – Discusses also the National Mapping Council of Australia and the Advisory Committee on Commonwealth Mapping (ACOCM). – Bibliog.
- Stackhouse, John**  
The mapping of our continent / John Stackhouse. – *In Bulletin* (Sydney), 1982, 14 Sept., 76-77,79

**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* (6<sup>th</sup> : 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**

Production report 1990-1992. -- 5 v. ; col. maps (fold) ; 30 cm. -- Former title: Tasmania. Department of Environment and Planning, Mapping Division. Six monthly report. -- Later title: Tasmania.

Department of Environment and Planning. Land Information Bureau. Production report.

Six monthly report / Department of Environment and Planning, Mapping Division. -- [Hobart, Tas.] : The Department, 1989. -- v. ; col. maps (fold) ; 30 cm. -- Former title: Tasmania. Department of Lands, Parks and Wildlife. Mapping Division. Annual report. -- Later title: Tasmania. Department of Environment and Planning. Mapping Division. Production report. -- Maps produced.

**Tasmania. Department of Lands and Surveys**

Department of Lands and Surveys, report for ... -- [Hobart, Tas.] : Govt. Printer., -1935. -- v ; 33 cm. -- Also issued as a parliamentary paper. -- Later title: Tasmania. Department of Lands and Surveys.

Report of the Secretary for Lands for the year ... -- Reports on surveying and land use.

Report of the Secretary for Lands for the year ... -- [Hobart, Tas.] : Govt. Pr. , 1936-1939. -- 3 v. ; 33 cm. -- Former title: Tasmania. Department of Lands and Surveys. Department of Lands and Surveys report for ... -- Later title: Tasmania. Department of Lands and Surveys. Report of the Surveyor-General and Secretary for Lands for the year ... -- Reports on surveying and land use.

Report of the Surveyor-General and Secretary for Lands for the year... -- [Hobart, Tas.] ; Govt. Pr. , 1940-1966. -- 27 v. ; 33 cm. -- Former title: Tasmania. Department of Lands and Surveys. Report of the Secretary for Lands for the year ... -- Contains reports on surveying and land use.

Surveyor-General and Secretary for Lands report for the year ... -- [Hobart, Tas.] : Govt. Pr. , 1967-1971. -- v. ; 33 cm. -- Also issued as a parliamentary paper. -- Former title: Tasmania. Department of Lands and Surveys. Report of the Surveyor-General and Secretary for Lands for the year ... -- Later title: Tasmania. Lands Department . Report on the activities of the Department of Lands for the year. -- Contains details of surveying and land use.

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**

Annual report / The Division. -- Hobart, Tas. : The Division, 1987- 1988. -- 2 v. : ill. ; 30 cm. -- Former title: Tasmania Lands Department. Mapping Division. Annual report. -- Later title: Tasmania. Department of Environment and Planning. Mapping Division. Six monthly report. -- Report on activities and map produced.

Six monthly report / Mapping Division, Department of Lands, Parks and Wildlife. -- Frequency semi-annual. Alternate title: Tasmania. Department of Environment and Planning. Mapping Division. Production report.

**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.] : TASMMap, 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**

Application of the stereocomparator to mapping observations in Tasmania / Lands and Surveys Department, Tasmania. -- *In Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East* (5<sup>th</sup> : 1967 : Canberra), v. 2, 187-188 : 2 figs. -- E/CONF.52/L.31

**Tasmania. Lands Department. Mapping Division**

Annual report / Mapping Division. – Hobart, Tas. : Mapping Division, 1985/1986 - . – v. – Title varies: Progress report : annual report. – Continued by Annual report (Tasmania. Department of Lands, Parks and Wildlife. Mapping Division). – A quarterly and semi-annual report are also published by the Department.

see also Love, A. R.

**Tasmania. Land Information Bureau**

Production report / Tasmania, Environment and Planning, Land Information Bureau. – [Hobart, Tas.] : The Bureau, 1992- . – v. : col maps (fold.) ; 30 cm. – Semi-annual. – Report on mapping.

**Tasmania. National Parks and Wildlife Service**

Report for the year ended 30 June ... / National Parks and Wildlife Service. – Hobart, Tas. : The Department 1979–1987. – Merged with Annual report of the Lands Department to become the Annual report / Department of Lands, Parks and Wildlife.

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

Report and proceedings of the Standing Committee of the Co-ordination and Correlation of Levels and Surveys in Tasmania. – [Hobart, Tas.] : H. H. Pimblett, Govt. Pr., 1941. – 22 p. : ill. ; 25 cm. – Surveying matters.

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 (8<sup>th</sup> : 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.**

Preliminary detail plots of Papua New Guinea / W. A. Thomson, Division of National Mapping, Department of National Development. – *In* Proceedings and Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (5<sup>th</sup> : 1967 : Canberra), v. 2, 194-195 : 1 fig., 1 col. map. – E/CONF.52/L.55.

**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 (21<sup>st</sup> : 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 (6<sup>th</sup> : 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.**

Assessment of SIR.B for topographic mapping / J. C. Trinder and P. J. Wise, – *In* Photogrammetric Engineering and Remote Sensing (Sydney: Univ. of New South Wales), 1987, 52, 11, 1539-1549.

**Tucker, K. J.**

Mapping change in the New South Wales Department of Lands / K. J. Tucker. – *In* Cartography (Canberra: Australian Institute of Cartographers), Sept 1984, 13, 4, 295-305 : ill., maps.

**Turner, L.G.**

Aerodist operations in Australia / L. G. Turner. – *In* Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (5<sup>th</sup> : 1967 : Canberra), v. 2 – E/CONF.52/L.44  
Mapping Australia's continental shelf / L. G. Turner. – *In* Technical Papers, Australian Survey Congress (17<sup>th</sup> : 1974 : Melbourne), 128-135 : 5 figs.

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

Satellite imagery and its application to offshore mapping in Australia / L. G. Turner and H. L. Mitchell, Division of National Mapping. -- *In* Technical Papers, Australian Survey Congress (20<sup>th</sup> : 1977 : Darwin), Paper 8. -- Description of use of Landsat satellite imagery and aerial photography for bathymetric mapping.

**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.

Large scale mapping in New South Wales / by Frank Urban, Chief Photogrammetist, Central Mapping Authority, New South Wales. -- *In* Technical Papers, Australian Survey Congress (16<sup>th</sup> : 1973 : Canberra), E1-E4 : 7 figs., 3 tables. -- Describes commencement of CMA operations in 1951 to produce medium scale multi coloured topocadastral maps of New South Wales. -- Also appears in Technical Papers, United Nations Regional Cartographic Conference for Asia and the Far East (7<sup>th</sup> : 1973 : Tokyo), v. 2, 320-329 : 7 figs., 3 tables. -- E/CONF. 62/L.41.

**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 12<sup>th</sup> ICA Conference, August 1984, Perth.

Expedition to the Australian Territory of Heard and McDonald Islands 1980 / by C. Veenstra, J. Manning and other members of the expedition. -- Canberra, A.C.T. : Department of National Development and Energy, Division of National Mapping, 1982. -- 69, [41] p. : ill., maps, facsim. ; 30 cm. -- (Technical report / Australia. Department of National Development & Energy, Division of National Mapping) ; 31. -- Includes details of surveys and map prepared. -- Bibliogs. -- ISBN 0 642 51523 9.

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 (27<sup>th</sup> : 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.**

History of New Guinea Survey Section later 8 Australian Field Survey Section / by Jack S. Viccars. – Canberra, [A.C.T. : J. S. Viccars, [1988?]. – ii, 43, [12] p., [9] p. of plates (2 folded) : ill., maps, portr. ; 26 cm. – Short history of activities during World War 1939-1945 in Papua New Guinea. – ISBN 0 731 64021 7 (not printed in book)

**Victoria. Department of Crown Lands and Survey**

Enquiry into present and future requirements of topographic maps : report / Department of Crown Lands and Survey. – [Melbourne, Vic.] : The Department, 1970. – v. (unpaged) ; 30 cm.

Half yearly report on survey and mapping activities / Division of Survey and Mapping, Department of Crown Lands and Survey. – [Melbourne, Vic.] : Division of Survey and Mapping, 1978-1979. – v. : maps ; 30 cm. – July/Dec. -- Half-yearly. -- Cover title in 1978: Interim report to the National Mapping Council.

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 and aerial photography catalogue, Department of Crown Lands and Survey, Division of Survey and Mapping / Division of Survey and Mapping. – 2<sup>nd</sup> ed. – Melbourne, [Vic.] : Govt. Printer, 1974. – 40 p. : maps (2 fold.) ; 30 cm. – Maps of Victoria available from Victorian Department of Crown Lands and Survey, Division of Survey and Mapping.

Mapping in Victoria : report and proposal for an accelerated programme Division of Survey and mapping, Department of Crown Lands and Survey / Division of Survey and Mapping. – [Melbourne, Vic.] : The Department, 1982. – v. (various pagings) : maps ; 30 cm.

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.

Official map and plan systems for use throughout Victoria Division of Survey and Mapping, Department of Crown Lands and Survey, Victoria / Division of Survey and Mapping. – 3<sup>rd</sup> ed. – Melbourne, [Vic.] : Govt. Printer, 1978. – 9 leaves, [2] leaves of fold. maps : ill. ; 30 cm.

Quarterly report as at ... / Division of Survey and Mapping, Department of Crown Lands and Survey. – Melbourne, Vic. : Division of Survey and Mapping, 1974-1989. – v. ; 30 cm. – Former title: Victoria. Department of Crown Lands and Survey. Quarterly report as at ... – Later title: Victoria. Survey & Mapping Victoria. Report as at ...

Report on state mapping requirements and current programme in Victoria Department of Crown Lands and Survey, Division of Survey and Mapping / Division of Survey and Mapping. – Melbourne, [Vic.] : The Department, 1974. – 16 leaves, [3] leaves of col. plates : maps ; 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**

Department of Property and Services, Division of Survey and Mapping : corporate plan 1987-88 / Division of Survey and Mapping. – Melbourne, [Vic.] : The Division, 1986?. – 12p. ; 25 cm.

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) 1[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.

Review of Survey and Mapping service, stage 1 : report of Working Party, J. Mant, Review Working Party. – Melbourne, Vic. : Department of Property and Services, Division of Survey and Mapping, 1985. – v. (various paging) ; 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.**

Annual report ... to the National Mapping Council of Australia / Division of Survey and Mapping. – Melbourne, Vic. : Division of Survey and Mapping, 1975-87. – v. ; 30 cm. – Part 1. Progress of surveys within Victoria. Part 2. Place names.

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 .

Division of Survey and Mapping. Survey, Mapping and Draughting Party : report. – Melbourne, [Vic.] : The Division, 1985. – 15, [11] leaves ; 30 cm.

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.

Report as at ... Survey and Mapping Victoria, Ministry of Finance / Survey and Mapping, Victoria. – Melbourne, Vic. : The Ministry, 1991. – v. : ill. ; 30 cm.

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

Review of survey and mapping service stage 1 : issues paper, June 1985 Review Working Party, J. Mant / Division of Survey and Mapping, Review Working Party. – [Melbourne, Vic.] : Department of Property and Services, Division of Survey and Mapping, 1985. – 122 leaves : maps ; 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**

The Royal Australian Survey Corps / Gary Warnest. – *In Cartography* (Canberra: Australian Institute of Cartographers), June 1995, 24, 1: Supplement (July 1995), 34-38. – 5 p. : ill.

**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* (39<sup>th</sup> : 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**

Catalogue / Central Map Agency. – [Perth, W.A.] : Department of Land Administration, [1993- ]. – v. [loose leaf] . – Contains photocopies of map indexes and map lists from various agencies. Includes a section of topographic map indexes.

see also Western Australia. Department of Lands and Surveys



**Western Australia. Department of Lands and Surveys**

Annual report for the year ended ... together with a report under the Farmers' Debts Adjustment Act / Department of Lands and Survey. - Perth, [W.A.] : Department of Lands and Surveys, [19-]-1986. - v ; 30 cm. - Description based on 1934. - Later title: Western Australia. Department of Land Administration. Annual report 1031-4636. - ISSN 1031-4628.

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 (9<sup>th</sup> : 1980 : Wellington), v. 2, 113-119 : 2 figs. -6 refs. - Orthophotography a support of digital mapping procedure. To be effective the needs of the users must be understood, while users need to adapt to change by accepting the new format. - E/CONF. 72/L.42.

Western Australia - pictorial index of surveying and mapping. - Perth, W.A. : Department of Lands and Surveys, 1966-1971. - Contains indices to both topographic and thematic mapping series.

Western Australian topographic specifications all scales (WATSAS) ; covering scales 1:25 000 to under 1:5 million [draft]. -- [Perth, W.A. : Department of Lands and Surveys, 1982]. - [x], [381] p. : [8] p. of col. plates, 1 loose map. -- Includes 5 out of a proposed 11 parts. Prepared for the consideration of National Mapping Council members.

see also **Contemporary Cartography, Fyfe, W. V., Johnston, D., Lyons, K. J. and Morgan, John F.**

**Western Australia. Department of Lands & Surveys. Central Map Agency**

Catalogue of maps and services / Central Map Agency. - Perth : Department of Lands and Surveys, [1985]. - Biannual. - v. [loose leaf ; 52 leaves]. - [42] : 1 of col. ill. ; 29 cm. - Illustrating map types available from various agencies with accompanying bibliographic descriptions. Includes some topographic mapping.

**Williams, R. J.**

Army Survey topographic information system : an information structuring approach / R. J. Williams. - *In* Technical Papers, Australian Cartographic Conference (6<sup>th</sup> : 1986 : Melbourne), Session 3, [8-15] : 7 figs. - Describes requirements for a range of products from the information system and the two stages of achieving this.

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