Vol. 8, No. 2  
Mar. 1977

information bulletin

WESTERN ASSOCIATION OF MAP LIBRARIES

"... to encourage high standards in every phase of organization and administration of map libraries ..."
The Information Bulletin is published by the Western Association of Map Libraries, but opinions expressed herein do not necessarily reflect an official position of the Association.

Membership in WAML is open to any individual, institution, or business interested in furthering the purpose of the Association (to encourage high standards in every phase of the organization and administration of map libraries).

Membership Dues: Individual Members residing within the Principal Region may participate by serving as an Officer, vote, attend meetings, and receive the Information Bulletin. $7.00 per fiscal year (July thru June); mid-year joiners will receive back-issues of the Information Bulletin for that year. $10.00 beginning July 1, 1977

Principal Region

Alberta
British Columbia
Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
Oregon
Utah
Washington
Wyoming

Associate Members are those who reside outside the Principal Region, and may participate by attending meetings, serving in an advisory capacity on a committee, and receive the Information Bulletin. $5.00 per fiscal year. $10.00 beginning July 1, 1977

Lifetime Individual Membership is open to individuals only for a one-time payment of $200. All Lifetime Members may participate with the same rights as Individual Members, but in addition to the Information Bulletin will receive a copy of each Occasional Paper.

Institutional Members are commercial firms or educational organizations. The Institution may designate one of its staff to be the official representative for attendance at meetings. The official representative has all the rights of Individual Membership, but may not hold office. The Institution will receive one copy of each issue of the Information Bulletin and each Occasional Paper issued during the year of membership. $25.00 per fiscal year.

Back issues of the Information Bulletin are available for $5.00 per volume, or portion thereof, from the Editor.

Subscriptions to the Information Bulletin are available at $5.00 per volume-year: three issues per volume-year: November, March, June.

Editor: Stanley D. Stevens
University Library
University of California
Santa Cruz, CA 95064 (phone 408/429-2364) (MTSS 529-2364)
Geo Abstracts, Part G;

The Information Bulletin is indexed in Library Literature, and Library and Information Science Abstracts; Surveying and Mapping/American Cartographer, and, IREBI [Indices de Revistas de Bibliotecología] (Argentina).

COPY DEADLINES: # 1 - October 1st; # 2 - February 1st; # 3 - May 1st.

LC # 72 - 625238
Contents

Appendices 1-6 to accompany "Map Collections in Public Libraries..." by Patricia Alonso [pages 74 - 82, Vol. 8, No. 1, Nov. 1976] 83

Mapping Wildfire Hazards in Colorado, by James R. Getter & Lorraine K. Seger 93

Compilation and Analysis of a State Map and Aerial Photography Directory - A Nevada Experience, by Mary B. Ansari 97

Some Important Cartographic Agencies and Available Maps of Mexico, by J. Granville Jensen 102

Recent Acquisition of CETENAL Maps 111

On the State of American Almanac Maps, by Harold M. Otness 115

Publications of Relevance, Contributions by: Anna Blustein, Sheila Johnson, Arthur L. Burt, Bob Krieger, and The Editor 120

An Index to the Defense Mapping Agency/Army Map Service Depository Catalogs, by Joe Crotts 124

News Notes: Maps to be noted in Wilson Indexes
New Library Acquisitions List
National Map Collection, Public Archives, Canada 132

Atlases Cataloged at UCLA, by Anna F. Blustein 133

The San Diego State University Social Science Research Laboratory 134

Addendum to Treasure Map List, by Donald A. Wise 136

New Price List, U.S.G.S. - Remote Sensing Data 143

New Mapping of Western North America, Contributions by: Mary Blakeley, Anna Blustein, and The Editor 145
APPENDIX 1

MAP SOURCES
[A selected List for Victorian Public Libraries]

Antarctic Division,
Department of Science,
568 St. Kilda Road,
Melbourne. 3000.

Material for schools, including one
map. Can supply Antarctic maps
at scales: 1:1M, 1:250,000
1:100,000 1:50,000

Australian Bureau of Statistics,
Population/Census Section,
P.O. Box 2796Y,
Melbourne. 3000.

Gratis, limited stock of mimeoed desk
maps of collectors' districts of
each local government area. Statisti-
tical division maps for Australia
and each state, capital cities and
urban districts (40¢).
Medium and large scale published
maps for Melbourne, Geelong, Bendigo,
and Ballarat (10¢ each).

Australian Government Publication
and Inquiry Centre,
347 Swanston Street,
Melbourne. 3000.

Hold incomplete stocks of Victorian
maps at scales: 1:250,000, 1:100,000,
1:50,000.

Commonwealth Railways,
325 Collins Street,
Melbourne. 3000.

Wall map of Australian railways (30¢)
Strip maps of Port Pirie - Darwin,
and Port Pirie - Perth Commonwealth
lines (gratis).

Country Fire Authority,
Milton Parade,
Malvern. 3144.

Fire maps produced by Lands Department or
regional officers, to whom inquirers
would be referred by C.F.A.

Country Roads Board,
60 Denmark Street m
Kew. 3101.

Maps showing C.R.B. roads, tourist
roads, national parks, etc. Victoria
1:500,000, 1:2M 50 miles around
Melbourne. Maps $1 per sheet.

Crown Lands and Survey,
Department of Central Plan Office,
2 Treasury Place,
Melbourne. 3002.

Victorian maps and aerial photographs.
No discounts. List of publications
available.

Electoral Office, State see

State Electoral Office

Forests Commission - Victoria
Map Sales Section, Drafting Office,
1 Treasury Place,
Melbourne. 3002.

Maps for Forest Commission areas avail-
able. Demand publication of 1:63,360
maps in black & white; black and white
prints of 40 chain to 1 inch map
sheets; Alpine Walking Track sheets
(all 75¢).
Housing and Construction, Dept. of
17 Yarra Street,
Hawthorn. 3122. Small maps accompanying publications, some on restricted access.

Melbourne & Metropolitan Board of Works,
Planning Division Map Room,
625 Little Collins Street,
Melbourne. 3000. Planning scheme maps for consultation and sale.

Melbourne & Metropolitan Board of Works,
Survey Division Plan Room,
625 Little Collins Street,
Melbourne. 3000. Base maps for consultation and sale.

Meteorology, Bureau of
Victorian Regional Office,
Commonwealth Centre,
Spring and La Trobe Streets,
Melbourne. 3000. Meteorological maps for Australia and all states. Various prices, some distributed gratis on application. List of publications available.

Metropolitan Transportation Committee,
Princes and Drummond Streets,
Carlton. 3053 "Rezoning and extension of zoned areas" - set of 33 dye-line prints, available at $15 per set.

Mineral Resources,
Geology and Geophysics, Bureau of
P.O. Box 378,
Canberra City, A.C.T. 2601 Specialized maps such as geology, gravity, magnetics, seismic surveys, tectonics, metallogenesis, petroleum exploration titles. Maps can also be purchased from Department of Minerals and Energy Map Sales Section in Melbourne - see below).

Minerals and Energy, Dept. of
Map Sales Section,
Tasman House,
G.P.O. Box 5,
Canberra City, A.C.T. 2600. Major supplier of topographic, resources, geological, tectonic, etc. maps of Australia. International Map of the World sheets. Discount of 33 1/3% to government departments and for large quantity sales. Discount of 10% to schools, universities and teaching institutions.

Minerals and Energy, Dept. of
Map Sales Section,
460 Bourke Street,
Melbourne. 3000. Same, as in stock.

Mines Department,
Publications Section,
107 Russell Street,
Melbourne. 3000. Geological parish plans; geological quarter sheets; geological 1:63,360 (one mile to one inch) maps; Australia 1:250,000 geological maps of Victoria. Possible discount on quantity orders.

National Parks Service,
240 Victorian Parade,
East Melbourne. 3002. Tourist pamphlets including a sketch map for every park, larger scale maps on several national parks, foolscap-sized [ca. 13 x 8 inches] map showing their locations throughout Victoria. Maps mostly under 50¢ or gratis.
Primary Industry, Department of Forestry and Timber Bureau Canberra, A.C.T. 2600.

Railways see Commonwealth Railways
     see also Victorian Railways

Soil Conservation Authority,
378 Coatham Road,
Kew. 3101.

State Development Department,
232 Victoria Parade,
East Melbourne. 3002.

State Electoral Office,
Old Treasury Building,
Spring Street,
Melbourne. 3000.

State Rivers and Water Supply Commission,
590 Orrong Road
Armadale. 3143.

Statistics see Australian Bureau of Statistics

Titles Office,
Law Department of Victoria,
283 Queen Street,
Melbourne. 3000.

Transport, Department of Air Transport Group,
Saleable Documents Section,
188 Queen Street,
Melbourne. 3000.

Transport, Department of Surface Transport Group,
35 Elizabeth Street,
Melbourne. 3000.

Transport Information Centre,
272 Collins Street,
Melbourne. 3000.

Victorian Railways Department,
67 Spencer Street,
Melbourne. 3000.

Atlas of eucalyptus distribution.
1945. ($12.00)
One map of Australia showing temperature and rainfall. (10c).

Land studies with accompanying maps.
Available gratis to libraries only, but supplies limited.

State regional boundaries map (1973), some resources surveys still in print, include many maps.

State Electoral division maps for consultation only; purchase from Lands Department, Central Plan Office.

3" contour plans, engineering drawings.
Photomosaics of flood areas can be made up on request or used for reference. Special Lake Eppalock map (50c)
1:1M map of water distribution system of Victoria ($1).

Maps and plans shown on Certificates of Title and other legal documents. Most available for consultation only, may be photocopied.

World Aeronautical Charts 1:1M
RAAF Plotting sheets 1:3M
Some high altitude aeronautical maps and some other aeronautical publications. All 75c per sheet, no discounts.

One map suitable for school use, showing location of lighthouses in Australia.

Melbourne Transport Map (15c). They will tell inquirers from which agencies maps and timetables may be procured.

Suburban railway system, state-wide railway system maps, available gratis.
Government Tourist Bureaux

Government Tourist Bureaux, all located in central Melbourne, [each has "Melbourne. 3000." added to address given] offer free sketch maps and tourist information; often they can also help with location and other types of general inquiries about their respective states.

Victorian Government Tourist Bureau, 272 Collins Street,
New South Wales Tourist Bureau, 345 Little Collins Street,
Queensland Tourist Bureau, Elizabeth and Collins Streets,
South Australia Tourist Bureau, 8 Royal Arcade,
Tasmanian Tourist Bureau, 254 Collins Street,
Western Australia Tourist Bureau, Royal Arcade and Bourke Street,
Northern Territory Tourist Bureau, 298 Collins Street,

Commercial Suppliers

Bushwalking, rock climbing and hiking maps are available at bushgear and skiing shops in the city and suburbs, e.g. Auski, Molony's, Lock Wilson.

Victorian city plans are available from suppliers such as Hamlyn, or form local bookshops and stationers. Navigation charts are available from John Donne and Son.

Alguna Guides,
P.O. Box 52,
Montrose. 3765

Publishes a small number of hikers' and mountaineers' maps, distributed direct or through Auski, John Donne and Loch Wilson.

Auski Pty. Ltd.,
9-11 Hardware Street,
Melbourne. 3000.

Publishes "Intercapital Highway Guide" and road maps of approx. 20 country areas in Victoria.

Broadbent, R. A., Pty. Ltd.,
Tour Publications,
16a Chapel Street,
St. Kilda. 3182.

Broadbents Maps and Guides see Hamlyn, Paul, Pty. Ltd.

Clive Barrass Map Publishing Co.
521 Sydney Road,
Seaforth, N.S.W. 2092.

Produce Gregory's Street and road maps, oil company maps (available at service stations) and W.A., N.T. and Queensland Automobile Association maps (available only through respective associations.)

Dominie Pty. Ltd.,
341 Waverley Road,
Mount Waverley. 3149.

School suppliers of maps and globes.

Donne, John, and Son,
372 Little Bourke Street,
Melbourne. 3000.

Publishers of Broadbents' and Robinsons' maps.
Hamlyn, Paul, Pty. Ltd.,
37 Little Bourke Street,
Melbourne. 3000.

Publishers of Broadbents' and
Robinsons' maps.

Hutchinson Group (Australia) Pty. Ltd.,
30 - 32 Cremorne Street,
Richmond. 3121.

Representatives for Geographia and
Falk, overseas map publishers.

L & S Educational Equipment Pty. Ltd.,
8 Chesterville Lane,
Off 292 Chesterville Road,
Moorabbin, 3189.

School suppliers of maps and globes.

Loch Wilson & Co., Sporting Goods,
46 Hardware Street,
Melbourne. 3000.

Molony, J., Pty. Ltd.,
197 Elizabeth Street,
Melbourne. 3000.

R. N. D. Services,
78 Whitehorse Road,
Deeplene. 3103.

Produces a few specialized rally-
drivers' maps. Retail supplier of
National Mapping, Lands Department,
Forests Commission and commercial maps.

Royal Automobile Club of Victoria,
Road Travel Department,
123 Queen Street,
Melbourne. 3000.

19 area maps and touring guides,
374 strip maps, available only to
R.A.C.V. Members.

Universal Business Directories
(Aust.) Pty. Ltd.,
159 Eastern Road,
South Melbourne. 3205.

Catalogue of maps, directories and
map equipment available.

APPENDIX 2

Recommended Maps

published by National Mapping Division, Department of Minerals and Energy.
Prices as of January 1975, from Minerals and Energy Map Sales Sections.

<table>
<thead>
<tr>
<th>Map Description</th>
<th>Scale</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>1:5,000,000</td>
<td>$ .80</td>
</tr>
<tr>
<td>Australia</td>
<td>1:2,500,000 map in 4 sheets</td>
<td>3.20 set</td>
</tr>
<tr>
<td>Gazetteer of Australia, based on 1:2,500,000 map</td>
<td></td>
<td>.80</td>
</tr>
<tr>
<td>Gazetteer of Australia, based on 1:2,500,000 series</td>
<td></td>
<td>----</td>
</tr>
<tr>
<td>Australia</td>
<td>1:1M series in Australian Geographic Series and International Map of the World (48 sheets available)</td>
<td>ca.$ 38.00</td>
</tr>
</tbody>
</table>

The I.M.W. sheets replace the A.G.S. sheets as they are issued and can be integrated as one series for convenience.
Australia 1:250,000 topographic series. ca 550 sheets ca$ 440.00 at .80 per sheet. Strongly recommended whole series be acquired.

Atlas of Australian Resources
Mounted and guarded maps in binder, commentaries in box.
or
Folded maps and commentaries in three boxes. 20.00

Australia 1:100,000 topographic series. 340 sheets ca 272.00 available as of 1 June 1975 at .80 per sheet. (Victoria will be covered by 105 sheets, of which 45 are available.)

Australia 1:63,360 topographic series. 420 sheets ca 336.00 available as of 1 June 1970 at .80 per sheet. Stocks are reprinted when 1:100,000 substitute is available but series will not be completely out dated for many years.

Australia 1:50,000 topographic series. 254 sheets ca 230.00 available as of 1 June 1972 at .80 per sheet. (Victoria will be covered by about 400 sheets, of which 52 are available.)

Sheets covering Victoria in 1:63,360, 1:31,680, 1:50,000, 1:100,000, and 1:250,000 are also available at the Central Plan Office, Victorian Department of Crown Lands and Survey, Treasury Place, Melbourne.

Appendix 3
Recommended Maps Available at the
Central Plan Office
Department of Crown Lands and Survey

Index to 1:63,360 and 1:31,680 topographic map series. (1:31,680 sheets are quarters of the 1:63,360 sheets.)

Index to 1:100,000 and 1:50,000 topographic map series. (1:50,000 sheets are quarters of the 1:100,000 sheets.)

Index to the Base Map Series: Central Zone, Ballarat, Geelong, Mornington Peninsula, Phillip Island.

Victoria 1:500,000 general map.
Victoria 1:500,000 map showing municipalities.
Victoria 1:500,000 map showing municipalities, parishes, counties.
Victoria 1:25,000 map series. (Highly recommended.)

State electoral maps.

Map portfolio with pressure clips to hold 1:25,000 sheets and other maps.

For the areas served by each particular library, sheets from these series are recommended: Parish and township plans; County plans; Base Map Series; Dye-line demand publication sheets of topographic series not available in printed form; Topographic series at 2-inches to 1-mile (1:31,680); Topographic series at 1-inch to 1-mile (1:63,360); Topographic series at 1:50,000;
Topographic series at 1:100,000; Aerial photographs and photomaps for specific locales.

Special sheets are issued from time to time for holiday areas or areas of particular topical interest. There is no single list of these special sheets (although one is being compiled) so just tell the officer at the Central Plan Office the area you're interested in and ask for all maps available. Some special sheets are: Buchan Caves Reserve, Hotham and Falls Creek Alpine Area, Port Phillip Bay Miscellaneous Photomap.

## Appendix 4

Collectors' District Maps 1971 Census

Available from Commonwealth Statistician, Box 17, G.P.O., Canberra, A.C.T. 2601, and maps for particular states available in their capital cities at Population/Census Section of Bureau of Census and Statistics.

<table>
<thead>
<tr>
<th>Area</th>
<th>Scale</th>
<th>Number of Sheets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW SOUTH WALES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney</td>
<td>1: 5,000</td>
<td>2 }</td>
</tr>
<tr>
<td></td>
<td>1: 10,000</td>
<td>82 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 100,000</td>
<td>2 }</td>
</tr>
<tr>
<td>Newcastle</td>
<td>1: 10,000</td>
<td>25 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 25,000</td>
<td>3 }</td>
</tr>
<tr>
<td>Wollongong</td>
<td>1: 25,000</td>
<td>4 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 100,000</td>
<td>1 }</td>
</tr>
<tr>
<td><strong>A.C.T.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canberra</td>
<td>1: 12,000</td>
<td>6 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td></td>
<td>1: 63,000</td>
<td>1 }</td>
</tr>
<tr>
<td><strong>VICTORIA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melbourne</td>
<td>1: 10,000</td>
<td>78 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td></td>
<td>1: 100,000</td>
<td>3 }</td>
</tr>
<tr>
<td>Geelong</td>
<td>1: 10,000</td>
<td>9 }</td>
</tr>
<tr>
<td></td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td>Ballarat</td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td>Bendigo</td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td><strong>QUEENSLAND</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brisbane</td>
<td>1: 10,000</td>
<td>35 } + index</td>
</tr>
<tr>
<td></td>
<td>1: 100,000</td>
<td>2 }</td>
</tr>
<tr>
<td>Townsville</td>
<td>1: 25,000</td>
<td>2 }</td>
</tr>
<tr>
<td>Gold Coast</td>
<td>1: 25,000</td>
<td>2 }</td>
</tr>
<tr>
<td>Toowoomba</td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
<tr>
<td>Rockhampton</td>
<td>1: 25,000</td>
<td>1 }</td>
</tr>
</tbody>
</table>
### South Australia

- **Adelaide**
  - 1: 10,000
  - 1: 100,000

### Tasmania

- **Hobart**
  - 1: 25,000
  - 1: 100,000
- **Launceston**
  - 1: 10,000

### Northern Territory

- **Darwin**
  - 1: 25,000

### Western Australia

- **Perth**
  - 1: 25,000
  - 1: 34,000

### Appendix 5

*Forest Commission Maps*

<table>
<thead>
<tr>
<th>Published Colour Maps</th>
<th>Scale</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine Walking Track (prelim. ed.)</td>
<td>10.7 miles to 1 inch</td>
<td>nil</td>
</tr>
<tr>
<td>Barmah Forest</td>
<td>1 mile to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Bright State Softwood Plantations</td>
<td>1 mile to 1.8 inches</td>
<td>40¢</td>
</tr>
<tr>
<td>Central Highlands</td>
<td>2 miles to 1 inch</td>
<td>90¢</td>
</tr>
<tr>
<td>Croajingolong East</td>
<td>2 miles to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Feathertop *</td>
<td>1 mile to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Forest Reserves of Victoria 1971</td>
<td>1:1,000,000</td>
<td>75¢</td>
</tr>
<tr>
<td>Forests of Victoria</td>
<td>1:2,000,000</td>
<td>40¢</td>
</tr>
<tr>
<td>Grampians Wonderland Forest Park</td>
<td>1 mile to 4 inches</td>
<td>75¢</td>
</tr>
<tr>
<td>Gunbower Island</td>
<td>1 mile to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Lerderderg Gorge Forest Park *</td>
<td>1: 25,000</td>
<td>75¢</td>
</tr>
<tr>
<td>Macalister River Watershed</td>
<td>1:125,000</td>
<td>90¢</td>
</tr>
<tr>
<td>Mt. Buller Area *</td>
<td>40 chains to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Mt. Cole Forest *</td>
<td>40 chains to 1 inch</td>
<td>75¢</td>
</tr>
<tr>
<td>Sherbrooke Forest Park</td>
<td>1 mile to 3.4 inches</td>
<td>20¢</td>
</tr>
<tr>
<td>The Grampians</td>
<td>3 miles to 1 inch</td>
<td>90¢</td>
</tr>
<tr>
<td>The Otways</td>
<td>2 miles to 1 inch</td>
<td>90¢</td>
</tr>
<tr>
<td>Victoria (Forest Divisions and Districts)</td>
<td>1:2,000,000</td>
<td>40¢</td>
</tr>
<tr>
<td>Victoria - Forest Reserves 1974</td>
<td>1:2,000,000</td>
<td>40¢</td>
</tr>
</tbody>
</table>

* Not yet available in colour, but black and white prints can be obtained at the price quoted.
Black and White Prints 1:63,360, showing major and minor roads, stream patterns, towns and localities. All sheets 75¢ each.

<table>
<thead>
<tr>
<th>Beech Forest - Otway</th>
<th>Dargo</th>
<th>Juliet</th>
<th>Nelson</th>
<th>Wellington</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beechworth</td>
<td>Dedick</td>
<td>Kaye</td>
<td>Omeo</td>
<td>Wonnangatta</td>
</tr>
<tr>
<td>Benambra</td>
<td>Ellery</td>
<td>Kinglake</td>
<td>Orbost</td>
<td>Princetown</td>
</tr>
<tr>
<td>Bendock</td>
<td>Feathertop</td>
<td>Kosciusko</td>
<td>Princtown</td>
<td>Stirling</td>
</tr>
<tr>
<td>Bright</td>
<td>Gembrook</td>
<td>Mallacoota</td>
<td>Mansfield</td>
<td>Stratford</td>
</tr>
<tr>
<td>Bruthen</td>
<td>Genoa</td>
<td>Matlock</td>
<td>Moe</td>
<td>Taggerty</td>
</tr>
<tr>
<td>Buffalo</td>
<td>Glenmaggie</td>
<td>Moroka</td>
<td>Moroka</td>
<td>Tawanga</td>
</tr>
<tr>
<td>Cann-Everard</td>
<td>Glen Wills</td>
<td>Walhalla</td>
<td>Thowgla</td>
<td>Thowgla</td>
</tr>
<tr>
<td>Cobbannah</td>
<td>Howitt</td>
<td>Wellesley</td>
<td>Walhalla</td>
<td>Wellington</td>
</tr>
<tr>
<td>Cobberas</td>
<td>Jacobs River</td>
<td>Wellesley</td>
<td>Walhalla</td>
<td>Wellesley</td>
</tr>
<tr>
<td>Craigie</td>
<td>Jamieson</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Black and White Prints 40 chains to 1 inch series, showing major and minor roads, stream patterns, towns and localities. A, B, C, and D represent individual quarter sheets of the one-mile map sheet available. Maps are not regularly revised. All sheets 75¢ each.

| Aire     | A | B | Craigie | C | Jacobs River | A | C | Otway | A
|----------|---|---|----------|---|--------------|---|---|-------|---
| Beech Forest | A | B | C | D | Dargo | A | B | C | D | Jamieson | A | B | C | D | Princtown | A | B | C | D
| Benambra  | A | B | C | D | Dedick | A | B | C | D | Juliet | A | B | C | D | Stirling | A | B | C | D
| Bendock   | A | B | C | D | Ellery | A | B | C | D | Kaye | A | B | C | D | Taggerty | A | B | C | D
| Bright    | A | B | C | D | Everard | A | B |  |  | Kinglake | A | B | C | D | Tawanga | A | B | C | D
| Bruthen   | A | B | C | D | Feathertop | A | B | C | D | Kosciusko | A | C |  |  | Thowgla | A | B | C | D
| Buffalo   | A | B | C | D | Gembrook | A | B | C | D | Mallacoota | A | B | C | D | Walhalla | A | B | C | D
| Cann      | A | B | C | D | Genoa | A | C | D |  | Murrindal | A | B | C | D | Wellesley |  | C |  |  |
| Cobannah  | A | B | C | D | Glenmaggie | A | B | C | D | Murrungowar | A | B | C | D | Wellington | A | B | C | D
| Conran    | A | B |  |  | Glen Wills | A | B | C | D | Omeo | A | B | C | D | Wonnangatta | A | B | C | D

Alpine Walking Track - 1:63,360 sheets available from Secretary, Forests Commission, Victoria, 1 Treasury Place, Melbourne, Victoria 3002. 75¢ each.

Benambra Glen Wills Kosciusko Tawanga
Buffalo Howitt Mansfield Thowgla
Dargo Jacobs River Matlock Walhalla
Feathertop Jamieson Moroka Wellington

Packaging and Postal Charges
All prices as indicated, plus packaging and postal charges as follows:

<table>
<thead>
<tr>
<th>In map cylinders</th>
<th>In map envelopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of maps</td>
<td>Charge</td>
</tr>
<tr>
<td>1 - 15</td>
<td>$1.00</td>
</tr>
<tr>
<td>16 - 20</td>
<td>$1.20</td>
</tr>
</tbody>
</table>

APPENDIX

BIBLIOGRAPHY


Galneder, M. "Equipment for map libraries". Special Libraries, v. 61, no. 6 (July - August 1970), pp. 271-274.


Stephenson, R.W. "Published sources of information about maps and atlases". Special Libraries, v. 61, no. 2 (February 1970), pp. 87-98.


[EDITOR'S NOTE: Readers will recognize that this paper is primarily a guide for public librarians in Victoria, Australia, but its content focus is also useful for those who collect maps of Victoria, and for the practical details on acquisition, handling, and storage, as well as conservation practices.


Copies of the Technical Bulletin are available from its publisher, Public Libraries Division, Library Council of Victoria. $1.75 plus postage; specify airmail or surface mail on order and pay on invoice, don't prepay.]
MAPPING WILDFIRE HAZARDS IN COLORADO

by

James R. Getter & Lorraine K. Seger
Colorado State Forest Service
Colorado State University
Fort Collins, Colorado 80523

Introduction

The Colorado State Forest Service (CSFS), a division of the Colorado State University, is directed by Colorado House Bill 1041 (HB 1041), Land Use Legislation, to provide technical assistance to local governments as it relates to Wildfire Hazard Area Mapping (WHAM).

The population of Colorado is increasing steadily, particularly in mountain areas where it is becoming increasingly popular to build summer or second homes. However, imprudent building takes place without regard for the hazards that exist to life and property. Avalanches, floods, rock and mudslides, and wildfires have destroyed much property throughout history. It is hoped that adherence to land use legislation will prevent construction and habitation in areas of high fire danger.

The WHAM process consists of slope mapping, aspect mapping, fire hazard classification and ecosystem mapping; however, before addressing the WHAM process as it applies to mountain land use, it is necessary to know some facts about fire behavior and why we are mapping certain parameters.

Fire Behavior

Wildfire hazard is -- the potential of a fire occurring and sustaining itself because of existing conditions. Fire behavior is -- how a fire acts.

Three interdependent things are always needed for a fire to "happen": fuel or material to burn, oxygen to support combustion, and heat to maintain combustion. Removal of any one side of the triangle and the fire will stop. In fire prevention or pre-suppression activities the only component of the fire triangle we are capable of altering is fuels.

There are three phases of combustion: (1) preheating - heating fuel to a very high temperature; (2) gaseous - flames occur and burn gases that are vaporizing from the fuel; and (3) charcoal - combustible materials are consumed. The process may be very slow to explosive in speed.

An ignition source is needed to start a fire. The most common source in mountain areas is lightning. Others are campfires, incendiaries, smokers, logging operations, faulty chimneys, and dumps. Risk, the chance of fire starting, increases with increased human activity.

Presented to the joint meeting of the Western Association of Map Libraries, and the Geography and Map Division, Special Libraries Association, at the June 11, 1976 meeting in Denver.
There are four methods of heat transfer by a fire: conduction, radiation, convection, and mass transport. Conduction is of little importance in vegetation fires. Radiated heat is very intense near the fire and decreases in intensity with increased distance from the fire. Convected heat may reach great distances from the fire. Forest fires create their own convection columns above the flames, sucking in air near the base, super-heating the air which flows upward quickly to overheat fuels. Mass transport is the moving of burning material to other locations. Wind and convection air may carry firebrands great distances to start other individual fires.

Forest fires are classified into three types: ground, surface, and aerial. Ground fires occur in partially decomposed duff, roots, and peat. They are very slow moving but hard to detect, thus the fire may move underground great distances before being noticed. Surface fires burn in loose litter, low vegetation and dead vegetation on the ground. Aerial fires spread from tree crown to tree crown. These fires may be extremely fast-moving and very hot. Aerial fires are hard to control when moving at a high rate of speed.

All fire types are influenced by the three major components of the fire behavior triangle: fuel, topography, and weather. A change in any side of this triangle will alter fire behavior.

Size, continuity, compaction, volume and moisture are characteristics used to describe fuels. Weather and topography are uncontrollable ingredients of fire behavior. Topography, the lay of the land (consisting of aspect and slope), influences fuel arrangement and alters local weather conditions. Similarly, weather affects fire behavior by altering: (1) fuel moisture; (2) fuel volume; and, (3) fire spread (winds).

Predictability of these three components is also important in fire behavior analysis. While all three are predictable on a local scale, weather is the only unpredictable element of the triangle.

The Wildfire Hazard Mapping Process

Utilizing this knowledge of fire behavior, the WHAM process proceeds through reconnaissance, slope/aspect mapping, density/ecosystem typing, and fire hazard classification/field checking phases. The end product is a base-map with reproducible mylar overlays. It is given to local governments by Colorado State Forest Service District Foresters. Technical assistance is also provided to local governments on the mapping procedure so that they may have a better understanding of the interpretation and process used in classification.

The basemap used is the nationally available U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle (scale 1:24,000). 1,150 map sheets of Colorado's 1,824 quadrangles are currently in-print, of which 900 map sheets fall in mountainous or forested areas.

Hazard classification criteria include slope, aspect and vegetation density to include ecosystem typing (Lynch, 1974).
Slope, an important determinant of fire behavior, is divided into two classes: slopes under 30-percent, and slopes 30-percent-and-over. A pair of pre-set dividers is used to measure distance between map contour lines. Slopes of 30-percent or greater exist where two or more contour lines fall within this pre-set distance. These extreme slope areas are then depicted as shaded blocks on the overlay, while slopes under 30-percent are left clear. Topographic benches less than four chains (264 feet) wide will not be mapped regardless of adverse slope.

Topographic aspect is divided into eight 45-degree classes (N, NE, E, SE, S, SW, W, and NW) centered upon true azimuth bearings. Aspects are delineated using a Point Aspect Finder (Seger and Frobig, 1975) developed by the Colorado State Forest Service. South and southwest aspects are delineated and shaded on overlay material.

Fire hazard classes and vegetation density data are visually photointerpreted from 1:20,000 scale, nine by nine inch format, black and white panchromatic vertical contact aerial photographs using an Old Delft scanning mirror stereoscope.

Approximately 30 to 35 aerial photos are required to photointerpret a 7.5-minute quadangle. Ecosystem types and densities are interpreted within the effective area of each photo, and this detail is transferred to the map sheet using either a Map-O-Graph projector or Zoom Transfer Scope. Minimum mapping areas are five acres; smaller areas are classified by dominant type. Considerable aerial photointerpretation experience is necessary for this phase.

Where available, 1:50,000 scale high-altitude NASA color infrared transparencies are used for both their timeliness and false-color delineation of wet meadows, bogs, and riparian areas.

Fuel densities and classifications are applied as follows (Fahnestock, 1971):

**Class O**, no hazard: nonflammable materials.

**Class A**, low hazard: grass, forbes and brush less than two feet in height; deadwood in contact with the ground; open conifer stands with 0 to 35 percent crown coverage; stands of aspen, cottonwood or willow. Where slash (natural or logging residue) or ladder fuels are abundant, the hazard becomes Class C. Also, when conifer stands with 30 to 35 percent crown density occur on slopes over 30-percent, the hazard becomes Class B.

**Class B**, medium hazard: medium density conifer stands with 35 to 55 percent crown coverage and surface fuels of mainly herbage and litter and some patches of conifer reproduction and deadwood. Where abundant slash, brush over two-feet tall, conifer reproduction, blowdown, or insect-killed trees are present, the stand becomes hazard Class C. Also, when stands with 50 to 55-percent crown density occur on slopes over 30-percent, the hazard becomes Class C.
Class C, severe tree hazard: dense conifer stands greater than 55-percent crown density with any surface fuel.

Class X, severe brush hazard: dense to moderately dense flammable vegetation, two to ten-feet in height, including Gambel Oak (seasonally in fall), big sagebrush, conifer reproduction, abundant litter and/or herbaceous fuel; scattered conifer stands may also be present.

The ecosystem overlay is the final component of the fire hazard/ecosystem mapping package. Ecosystem identification consists of photointerpretation and ground verification of selected plant species that are indicative of particular ecosystems. The following 20 ecosystems (Lynch, 1974) are recognized and delineated:

<table>
<thead>
<tr>
<th>Alpine</th>
<th>Disturbed</th>
<th>Meadow</th>
<th>Pinyon-Juniper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspen</td>
<td>Douglas-fir</td>
<td>Mixed Conifer</td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Greasewood-Saltbrush</td>
<td>Mountain Grassland</td>
<td>Ponderosa Pine</td>
</tr>
<tr>
<td>Bog</td>
<td>Lumber-Bristlecone Pine</td>
<td>Mountain Shrub</td>
<td>Riparian</td>
</tr>
<tr>
<td>Bog-Riparian</td>
<td>Lodgepole Pine</td>
<td>Non-vegetated</td>
<td>Sagebrush</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spruce-fir</td>
</tr>
</tbody>
</table>

Preliminary overlays are done in pencil and not inked until necessary field work is completed. In the field-checking phase, one sample plot is randomly selected for each classification mapped to include the use of vantage points. Maps are checked on the basis of these data for office procedure accuracy and necessary corrections are made.

After field checks, corrections, and other finishing touches, the basemap and overlays are copied and sent to State District Foresters who in turn contact county planning officials with an explanation of what the map representations mean. County Planners have found the Wildfire Hazard Area Map package as an invaluable tool in land use planning activities.

The Colorado State Forest Service has developed a computerized mapping program, TOPOMAP (Tom and Getter, 1975). This program, given elevation data, computes slope and aspect information on a scale of 1:24,000, pen plot map. Forest Service personnel are also working with Dr. Eugene Maxwell, Earth Resources Department, Colorado State University, in determining the feasibility of using satellite imagery to map both vegetation type and density.

Literature Cited


COMPILATION AND ANALYSIS OF A STATE MAP AND AERIAL PHOTOGRAPHY DIRECTORY*

A NEVADA EXPERIENCE

by

Mary B. Ansari
Mines Librarian, University of Nevada, Reno

As outlined at WAML's 1973 Fall Meeting at Riverside, Mines Library at the University of Nevada, Reno, is planning the establishment of a 2,000 square-foot map room to house the major portion of the University Library's maps. Mines is scheduled to move into its new facility in the summer of 1977, and at that time the planned map room will at long last materialize.

Before I became involved in a survey of Nevada's map and air photo resources, I strongly suspected that Mines housed the largest map collection in the State; the results of the survey confirmed this suspicion. The need for the survey evolved over the past several years as Mines began fielding an increasing number of reference questions concerning maps and air photos. In that Mines staff consists of only 2.50 FTE's, plus 1.50 student assistant FTE's, none of whom have any training in map librarianship, and maps represent only a small part of the total operation, staff members experienced an increasing need to be able to refer patrons to appropriate agencies and collections if Mines could not provide the requested information or map. In addition, I was aware that the information obtained from a survey of the State's map and air photo resources would prove useful in the drafting of a formal map collection development policy for the planned map room.

Consequently, I deemed it desirable to conduct as comprehensive as possible an inventory of the State's map and air photograph resources. Unfortunately, the 1969 WAML Directory of Map Collections in Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Alberta, British Columbia listed only one collection in Nevada, and that was in Elko.

The first step in the survey was the drafting of a questionnaire which would be easy to understand and fill out for both library and non-library respondents. Initially, I examined the questionnaires that were used for the WAML and SLA map directories. The resultant questionnaire, which is appended, is an amalgamation of ideas from those questionnaires, my own ideas, and suggestions from some of my colleagues. Some suggestions worth merit could not be adopted without having the questionnaire exceed one sheet, which I wished to avoid. Unfortunately, as is often the case, many of the defects of the questionnaire were not discovered until the responses were being tabulated.

Several weeks went into finalizing the questionnaire and cover letter. In October, 1975, the questionnaire was circulated to over 140 libraries, historical societies, museums, private collectors, and State and Federal government agencies throughout the State. Since I fully expected to receive no more than 25 to 30 responses, it was indeed gratifying to receive a total of 56 responses.

*Presented at WAML's Spring Meeting at Corvallis, Oregon, September 24, 1976.
At this point I was still unsure in what format and by whom the survey results would be circulated or published. I was considering approaching either the State Library or the Nevada Library Association to publish the information in the form of a directory when Alvin R. McLane, one of the survey respondents and a well-known figure in Nevada map circles, indicated that he was interested in publishing it in his Camp Nevada Monograph Series. Since I knew Mr. McLane's publishing operation to be fast, inexpensive, and meticulous, I enthusiastically accepted his offer and began tabulating the survey results in directory format.

The resultant directory, Nevada Collections of Maps & Aerial Photographs, Camp Nevada Monograph no. 2, [40 p., Reno, 1976 (L.C. Card No. 76-12757)] is arranged alphabetically by name of responding agency, and each entry is numbered consecutively. Typical entries include name, address, telephone number, and hours of responding agency; geographic and subject scope of the collection; depository status; collection size and composition; arrangement and classification; cataloging status; accessibility and loan policy; and information on copying privileges and available copying facilities. In addition, there is a subject and geographic index to the collections.

An analysis of the directory's listings follows: the 56 listings include 6 private collections, 7 public libraries, 10 State government agencies, 13 Federal government agencies, 15 University of Nevada System departments and libraries, and 5 other agencies. Even though the majority of the reported collections were in Nevada's three largest urban areas, Reno with 19 listings, Carson City with 12, and Las Vegas with 10, ten other towns reported collections. Eight of the 56 reported collections were composed solely of air photos; 22 were a combination of both air photos and maps; and 26 were composed solely of maps. Nineteen participants reported that their collections included wall maps, 18 included atlases, 11 included globes, and 9 had gazetteers.

Most of the reported collections were quite small, the most common size being about 500 map sheets and 800 aerial photographs; several participants did not report the size of their collections. The largest reported map collections were the University of Nevada, Reno (hereafter designated UNR) Mines Library with over 60,000 map sheets, UNR Library Government Publications Department with 22,200 sheets, Nevada State Library with 10,000 sheets, and the Nevada Historical Society with 5,000 sheets. The U.S. Bureau of Land Management State Office in Reno reported the largest collection of air photographs numbering about 100,000 photos, and the UNR Remote Sensing Laboratory reported the second largest collection numbering 10,000 air photos.

The subject composition of the collections was as follows: topographic coverage was reported by 40 of the 56 respondents, geologic and hydrologic coverage by 24 respondents, historical coverage by 22, soils by 17, agricultural by 15, and sociocultural by 11. Other subject coverage reported included climatic coverage by 9 participants, political by 8, economic by 7, mineral resources and mining by 4, and range management by 3.

An analysis of the geographic scope of coverage indicated that 55 of the 56 respondents had map or air photo coverage of Nevada. Coverage of western states excluding Nevada was as follows: 19 respondents indicated coverage of Arizona; 8 coverage of Utah; 6 Idaho and Oregon; 2 Colorado, Montana, and New Mexico; and 1 Wyoming. Fourteen participants indicated general coverage of
the United States. Of this number, most had only atlas-type U.S. coverage, with the exception of the UNR Geography, Mines, and Government Publications collections, which were more specialized and comprehensive. Ten respondents reported international coverage; again, this was mostly atlas coverage, with the exception of the UNR Government Publications and Mines collections.

The reporting of the chronological coverage was quite unsatisfactory, primarily because of the way that portion of the questionnaire was structured. I suggest that question five be revised to include the following time periods: pre-1850; 1850-1899; 1900-1939; and 1940 to present. Dividing the Twentieth Century in this manner would better accommodate the reporting of collections composed solely of aerial photographs. As might be expected, of the 56 participants, only four reported having any pre-1800 coverage, with two of the four indicating that only one-percent of their collections were of that vintage. Fifteen reported some coverage for 1800-1899, with only one (Nevada Historical Society) reporting 50-percent of their collection to be from this period, two (University of Nevada, Las Vegas, Library Special Collections Department and a private collector) reported 25-percent of their collections of this period, one 10-percent, four 5-percent, and the remaining seven, less than 5-percent. Forty-three participants reported coverage for 1900 to the present; several respondents did not answer this question.

Ten of the respondents reported being U.S. Geological Survey topographic map deposits; three U.S.G.S. geologic deposits; four U.S. Defense Mapping Agency deposits; and one a U.S. National Ocean Survey depository. Most of the respondents reporting depository status were selective depositories, usually for Nevada only. The two exceptions were UNR Government Publications Department which is a full DMA depository and UNR Mines which is a full depository for U.S.G.S. topographic and geologic mapping.

The responses to the portion of question eight, concerning how the collections were arranged, were quite varied. Arrangements most frequently mentioned were "own system", by four participants; "section, township, and range", by three participants; "subject" by three, and "geographic area" by two. Other arrangements reported included by numbered quadrangles, by date for pre-1900 maps, by subject area, alphabetically by quadrangle, by accession numbers, by alphabetical order, by anthropological dig-sites, by photo index sheet, by agency, by period/type, by mining districts, by area numbers, by air photo year and project, by air photo flight-line and number, and by WMCFTYCU (if we can find it you can use it). There were problems with the responses to the portion of question eight, concerning classification. Because few, if any, collections in the State are arranged according to a classification scheme, apparently this part of the question was confusing; I suspect that some of the respondents had their book collections in mind when answering this question. Question eight should be revised to read: "classification or arrangement of map/air photo collection". Twelve collections were reported to be either fully or partially cataloged.

If any of you are contemplating a similar survey, I wish to forewarn you that you are likely to find yourself deluged with map reference questions when the questionnaires are first circulated and again at the time the directory or results are published or circulated. I found myself in the tenuous position of suddenly becoming the State's map and air photo authority. All in all, conducting the survey and compiling the directory was an excellent learning experience. The directory is a useful reference tool, and the information gained from the survey should be valuable in the formulation of the new map room's collection development policy.
NEVADA MAP AND AERIAL PHOTOGRAPH
RESOURCES DIRECTORY
QUESTIONNAIRE

1. Name of institution or collector

Street address

City________ Zip Code________

Telephone________ Hours________

2. Name and title of person in charge of map/aerial photograph collection:

3. Geographic areas covered by collection (check below; indicate areas of special emphasis by an asterisk)

Nevada______ (check below counties represented; use asterisk for special emphasis)

- Carson City______ Eureka______ Nye______
- Churchill______ Humboldt______ Pershing______
- Clark______ Lander______ Storey______
- Douglas______ Lincoln______ Washoe______
- Elko______ Lyon______ White Pine______
- Esmeralda______ Mineral______

States adjacent to Nevada (indicate areas of special emphasis with an asterisk)

- Arizona______ California______ Idaho______ Oregon______ Utah______

Other western states represented (asterisk for special emphasis)

- Colorado______ Montana______ New Mexico______ Washington______
- Wyoming______

United States (in general)______ (list below areas of special emphasis)

International Coverage______ (list continents and/countries of special emphasis)

4. Subjects covered by collection (check below; use asterisk for subjects of special emphasis)

- agricultural______ climatic______ economic______ geologic______
- historic______ political______ socio-cultural______ soils______
- topographic______ water______
- other (describe)________________________________________

5. Chronological coverage (per-cent of holdings)

Pre - 1800______ 1800 - 1899______ 1900 to present______

(over)
6. Depository for:

Defense Mapping Agency (aero center) National Ocean Survey
Defense Mapping Agency (hydro center) U.S. Geological Survey
Defense Mapping Agency (topo center) U.S. Geological Survey (geologic)
Other (describe) U.S. Geological Survey (topo)

7. Size of collection – approximate number of map sheets
atlases globes aerial photographs
wall maps gazetteers other (specify)

8. Classification or arrangement used: Dewey Library of Congress
Defense Mapping Agency (Army Map Service) Other (describe)

9. Is your map/aerial photograph collection cataloged? _____ In what form is the catalog?
card book Other (specify)

10. Publications issued (i.e. map acquisitions list)

11. Persons eligible to use collection: students faculty
employees public other (specify)
Persons eligible for borrowing privileges: students faculty
employees public other (specify)

12. Do you lend on interlibrary loan? Yes No

13. Will you permit copies to be made of maps in your collection? Yes No

What type of duplication facilities are available?

14. Do you have any maps/aerial photographs available for sale or free distribution (describe)?

15. Please list name, address and subject coverage of any other map/aerial photograph collections in your area, which might be otherwise overlooked in this survey:

16. Do you want a copy of the results of this survey? Yes No

Please attach page for additional comments about your collection.
SOME IMPORTANT CARTOGRAPHIC AGENCIES AND AVAILABLE MAPS OF MEXICO

Prepared by
J. Granville Jensen
Professor of Geography
Oregon State University

AGENCY INDEX

Commission for Studies of the National Territory .................................. 103
Automobile Club of Mexico ................................................................. 104
Commission for Minimum Salaries ....................................................... 104
Division of Agrology, Water Resources Secretariate ............................... 104
Division of Forest Inventory .................................................................. 105
Division of Geography and Meteorology ............................................... 106
Division of Information, Water Resources Secretariate .......................... 105
Institute of Geography, University of Mexico ........................................ 106
Institute of Geology, University of Mexico ........................................... 107
Libreria Patria ......................................................................................... 108
Mexican National Petroleum Corporation .............................................. 108
National Electricity Commission ............................................................ 109
Raji Guide .............................................................................................. 109
Secretary of the Navy ............................................................................ 109
Secretary of Public Works ...................................................................... 110

SUBJECT INDEX

Aerial Photos and Photomaps .................................................................. 103
City Maps ............................................................................................... 103, 106, 108, 109
Climate Maps .......................................................................................... 103
Electric Facilities ..................................................................................... 109
Forest Types ........................................................................................... 103, 104, 105
Geologic Maps ........................................................................................ 103, 107
Highway Maps ........................................................................................ 104, 110
Hydrographic Charts ............................................................................. 109
Irrigation Facilities .................................................................................. 106
Land Use Maps ....................................................................................... 103
Mexico--General Maps .......................................................................... 105, 106, 108, 110
Petroleum Facilities ................................................................................ 108
Port Charts ............................................................................................... 109
Salary Minimums .................................................................................... 104
Soils Maps ............................................................................................... 103, 104
State Maps ............................................................................................... 108, 110
Topographic Maps .................................................................................. 103
Vegetation Maps ..................................................................................... 103, 104, 105

1 Presented to the Spring Meeting of WAML at Corvallis, Oregon, September 24, 1976. This listing is limited to agencies currently publishing original basic maps that are available for acquisition by librarians, and prices indicated are as of June 1976. Based on Dr. Jensen's personal visits to Mexico.
The principal cartographic agency in Mexico, CETENAL, was created in 1968 as a dependency of the Office of the President of Mexico with the mandate to accomplish modern detailed mapping of the entire nation and its resources. As the agency developed its enormous task, the national territory was divided into 2,404 map units each 15 minutes of longitude by 20 minutes of latitude. For each unit original field studies by teams of specialists combined with sophisticated photogrammetry and photointerpretation are producing five basic maps. In addition the agency is a major source of aerial photos and a "knowledge bank" of resource information available to researchers.

1. MAP AND AERIAL PHOTO INDEX WITH PRICES IS AVAILABLE ON REQUEST. (AVANCE CARTOGRÁFICO)

2. THE BASIC MAP SERIES: $1.00 per sheet
   All maps are at scale of 1/50,000 on Universal Transverse Mercator Projection with 5 kilometer rectangular grid system. Sheet size 25 by 34½ inches.
   **Topography** — 4 colors, 10 meter contours, hydrography, vegetation and cultural features.
   **Geology** — Multi-color map of surface geology. Fault lines, verification points, etc. are shown.
   **Soils** — Multi-color map using FAO world soils map system. Sample site locations are shown.
   **Actual Land Use** — Multi-color map showing considerable detail with well selected color grouping.
   **Potential Land Use** — Eight colors using an ingenious classification system.

3. THE CLIMATE MAPS: $1.00 per sheet
   Forty-five sheets 22 by 34 inches, scale 1/500,000 produced in cooperation with the Institute of Geography, Nacional University of Mexico. Multi-color maps showing a modified Koppen system. Explanatory text and climograms printed on reverse.

4. CITY MAPS SERIES:
   Map series being developed for the major cities. Scale 1/5,000 usually on 2 or more sheets. Available cities indicated on index map. Aerial photomaps are available for smaller towns.

5. AERIAL PHOTOS variable (see map index)
   Available for most of Mexico in black and white or color. Contact prints and enlargements available. Available coverage and index shown on the Avance Cartográfico.
(AUTOMOBILE CLUB OF MEXICO)
Asociacion Mexicana Automovilistica (AMA)
Apartado Postal 24-486
Avenida Chapultepec 276
Mexico, 7, D.F. Mexico

The Automobile Club of Mexico corresponds to the American Automobile Association. Its annual publication with maps, the "GUIA" is available to the public.

1. MEXICAN AUTOMOBILE CLUB ANNUAL GUIDE
   (AMA GUIA) $5.00

The "Guide" published in a 4 by 9 inch format has 47 maps folded into the back, one for each state plus major cities. Major highways are clearly shown. The 360 pages of text provide information on places of special interest, fiesta dates, lodging and restaurants with quality and price indications.

(COMMISSION FOR MINIMUM SALARIES)
Comision de los Salarios Minimos
Paseo de la Reforma 136
Mexico, D.F. Mexico

Responsible for economic studies basic to establishment of minimum salaries for economic zones of the nation.

1. MAP OF MEXICO SHOWING 111 ECONOMIC ZONES

Sheet size 23 by 37 inches, showing the 111 economic zones associated with the minimum salaries. A 69 page booklet gives the official salaries.

(DIVISION OF AGROLOGY)
Direccion de Agrologia
Secretaria de Recursos Hidraulicos
Plaza de la Republica 31
Mexico, D.F. Mexico

A division of the national water resources secretariate responsible for research and basic cartography with reference to soils and vegetation. Two significant maps are currently available.

1. MAP OF VEGETATION TYPES OF MEXICO, 1971.
   (Tipos de Vegetacion de la Republica Mexicana)

Multi-color map, scale 1/2,000,000, sheet size 43 by 61 inches. Distribution of primary vegetation communities divided into 25 types is shown. An excellent 59 page supplement describing the research methodology, the vegetation types, bibliography and a glossary complements the map. Author: Agronomist Gaudencio Flores Mata, et al.

2. SOILS MAP OF MEXICO, 1972.

Black and white map, scale 1/2,000,000 corresponding to the vegetation map. Twenty-three soil groups are shown according to the FAO World Soils Classification1970, with subdivisions coded. A 31 page supplement includes a bibliography and observations on soil use characteristics. Author: Agronomist Gaudencio Flores Mata, et al.
(DIVISION OF FOREST INVENTORY)
Dirección General del Inventario Nacional Forestal
Avenida Progreso 5
Coyacan, 21, D.F. Mexico

A division of the Sub-Secretariate for Forestry, the agency is responsible for the important task of mapping, inventory, and evaluation of Mexico's forest resources.

1. STATE MAPS OF FOREST TYPES
   Prices vary $4.00-$6.00

   Maps of forest types by states are published in colors at small scale in the detailed State Forest Inventory Reports. Inventories are generally 9 by 11 inch format with maps folded into back, usually a political map followed by general vegetation and forest types maps. Text in Spanish only. List of reports available on request.

2. FOREST TYPE MAPS
   $1.60 each

   Over 600 large scale detailed forest type maps are available on request by means of black and white copy. Index not published, therefore, requests must specify the area for which maps are desired.

   Over 400 maps on polyconic projection, 1/50,000 scale, sheet size about 20 by 39 inches, covers the forest areas of Baja California, Chihuahua, Sonora, Durango, Guerrero, Jalisco, Mayarit, Sinaloa, Zacatecas, and Quintana Roo.

   Seventy-four maps, scale 1/100,000, 10 by 20 inches, covers forest areas of Aguascaliente, Colima, and coastal areas of Guerrero and Jalisco.

   One hundred and nineteen map sheets on transverse Mercator projection, scale 1/100,000 (40 minutes longitude by 30 minutes latitude each sheet) cover forest areas of Chiapas, Guanajuato, Guerrero, Mexico, Morelos, Pueblo, Queretaro, Quintana Roo, Tlaxcala, and Hidalgo.

   Forty-two sheets on transverse Mercator, scale 1/50,000 (20 minutes longitude by 15 minutes latitude each sheet) cover forest areas of San Luis Potosi.

(DIVISION OF INFORMATION WATER RESOURCES SECRETARIATE)
Dirección de Información y Divulgación
Secretaria de Recursos Hidraulicos
Reforma 77, 8 piso
Mexico, D.F. Mexico

Responsible in cooperation with technical departments for editing and distribution of various folders and reports including the quarterly journal, RECURSOS HIDRAULICOS, the BOLETIN INFORMATIVO and the ANNUAL REPORT OF THE SECRETARY. One useful map available for distribution.

1. IRRIGATION PROJECTS OF MEXICO, 1975.

   Maps shows 167 major reservoirs keyed to table giving official name and capacity. Irrigation districts are also shown and keyed to a table giving name and hectares of land involved. Map sheet 18½ by 27½ inches.
(DIVISION OF GEOGRAPHY AND METEOROLOGY)

Direccion General de Geografia y Meteorologia
Avenida Observatorio 192
Tacubaya, 18, D.F. Mexico

The Division of Geography and Meteorology within the Secretary of Agricultural has been a major cartographic agency, but currently basic cartography has terminated. Many maps are still available, but most were compiled between 1945-1960. The Division maintains a map library especially useful for historical research. The Division does, however, continue to be the basic source of meteorological data and publishes the daily weather system map.

1. CATALOGUE OF PUBLICATIONS AVAILABLE ON REQUEST.

2. MEXICO WALL MAPS $12.00

Four sheets, scale 1/2,000,000 available in two forms:

- Political showing states in colors, published in 1970;
- Physical map in ten color-shades.

3. METEOROLOGICAL BULLETIN annual subscription $30.00

Currently the most significant contribution of the Division is the monthly annual meteorology data including the daily weather system map.

(INSTITUTE OF GEOGRAPHY, NATIONAL UNIVERSITY OF MEXICO)

Instituto de Geografia
Universidad Nacional Autonoma de Mexico
Ciudad Universitaria
Mexico, 20, D.F. Mexico

One of several research institutes associated with the national university of Mexico. Currently under the direction of Doctor Teresa Gutierrez de McGregor, the Institute of Geography is carrying on an active program of research and publishing.

1. A CATALOG OF PUBLICATIONS IS AVAILABLE ON REQUEST SHOWING PRICES AND DESCRIPTIONS IN SPANISH AND ENGLISH.

2. SOME RECENT MAPS OF SPECIAL INTEREST ARE:

- Hypsometric map of Mexico $2.85
  Single sheet 38 by 62 inches, scale 1/2,000,000, Lambert conformal projection. Elevations shown with six color scale. Rivers in blue, cities in red.

- Base map of Mexico $1.95
  Same as the hysometric map, but without the six color over-print. Useful for highlighting the river systems of Mexico.

- Plan of the University of Mexico $1.45
  A six color map, scale 1/4,000, sheet size 25 by 34 inches. Shows buildings and land use areas, with index.

- City map series of Michoacan $1.45 each
  Plans of selected cities of Michoacan State, printed in colors, scales vary, sheets 32 by 25 inches, with historical resume in Spanish.
3. THE BULLETIN

The Institute edits and publishes a BOLETIN containing research papers and associated maps, worthy of acquisition by libraries.


(INSTITUTE OF GEOLOGY, NATIONAL UNIVERSITY OF MEXICO)

Instituto de Geologia
Ciudad Universitaria
Apdo, Postal 70-296
Mexico, 20, D.F. Mexico

One of the several research institutes associated with the National University. The Institute of Geology publishes a series of Bulletins and annals as well as geologic maps reporting research by staff scholars.

1. LIST OF PUBLICATIONS AND MAPS AVAILABLE ON REQUEST.

   Multi-color map, scale 1/2,000,000.
   $20.00

3. STATE GEOLOGIC MAP SERIES
   Twenty-six maps available, scale 1/500,000, in black and white.
   The following are available:
   Aguascalientes y Jalisco
   Baja California Norte
   Baja California Sur
   Campeche, Quintana Roo y Yucatan
   Coahuila
   Colima
   Chiapas
   Chihuahua
   D.F. y Edo. de Mexico
   Durango
   Guanajuato
   Guerrero
   Hidalgo
   Michoacan
   Morelos
   Nayarit
   Oaxaca
   Puebla y Tlaxcala
   Queretaro
   San Luis Potosi
   Sinaloa
   Sonora
   Tamaulipas
   Veracruz
   Zacatecas
   $10.00 each

4. QUADRANGLE GEOLOGICAL MAPS
   Six maps available, scale 1/100,000.
   Pedricenas, 13R-1 (4), 1965 (copy)
   Cuernavaca, 14Q-h (8), 1966
   Viesca, 13R-1 (5), 1967
   Cuencame, 13R-1 (7), 1968
   El Salado, 14R-J (11), 1968
   Mexico, 14Q-h (5), 1968 (copy)
   $3.50
Maps published under the name "Patria" are compiled by a major cartographic company under the direction of engineer Hector Esparza Torres. In addition to maps of cities and states, the company also does illustration work for text books. Among maps available are the following:

1. **MEXICO CITY MAP**
   2. **STATE MAP SERIES**
   3. **MEXICO MAP**

   **MEXICAN NATIONAL PETROLEUM CORPORATION**

   Petroleos Mexicanos
   Gerencia de Relaciones Publicas
   Ave. Marina Nacional 329
   Mexico 17, D.F. Mexico

   Petroleos Mexicanos is responsible for the entire petroleum industry of Mexico. Cartography is widespread within the agency, however, almost all is for office use only and not published. Useful maps have recently been included in the Annual Report and are therefore noted.

1. **ANNUAL REPORT (MEMORIA DE LABORES)**

   The 148 page report for 1975 contains considerable data along with review of the year's work--in Spanish. Folded into the back of the 6 x 9 inch format there are five maps of Mexico, 12 by 17 inches in size, showing the following: oil pipelines, gas pipelines, product pipelines, refinery centers, petrochemical centers, and storage centers.
NATIONAL ELECTRICITY COMMISSION
Comision Federal de Electricidad
Oficina de Informes y Estadisticas
Rodano 14, 4 piso
Mexico, 5, D.F. Mexico

Responsible for compilation of basic data and information concerning the nation's electricity industry. Various booklets and folders have been published including some maps.

1. MAP OF ELECTRIC GENERATION PLANTS
Map sheet is 22 by 34 inches, showing the 11 operating divisions, major transmission lines and plants differentiated between thermal and hydro.

2. BOOKLET, "PLANTAS GENERADORES Y LOCALIDADES CON SERVICIO"
Eighty page booklet lists all plants with capacity and type of generation. Also provides data on electrification of the nation by population and state.

ROJI GUIDE
Guia Roji
Avenida General Jose Moran 29
Mexico, 18, D.F. Mexico

A private company well known for its Mexico City street map and directory. Senor Roji published the first edition in 1928, hence the name Guia Roji. The 1976 edition is the 44th.

1. CIUDAD DE MEXICO (GUIA ROJI) $2.50
Mexico City street maps and directory, 4 by 10 inch format, 180 pages of which 167 serve as index to streets and plazas of Greater Mexico City. Additional pages give routes of the Metro System and other public transit lines.
Twelve maps, plates 10 by 19 inches, fold into the back. Districts and streets are clearly shown. Index system overprinted.

2. MEXICO CITY STREET MAP $1.60
Separate single sheet street map, 33 by 47 inches, locating index system overprinted, reverse side lists streets. Map also shows postal zones, Metro lines and stations.

SECRETARY OF THE NAVY
Direccion General de Oceanografia y Senalamiento Maritimo
Secretaria de Marina
Medellin 10
Mexico, 7, D.F. Mexico

Responsible for the national oceanography program including evaluation of ocean resources, preparation of hydrographic maps, port charts and comprehensive studies of ports and their economic base.
1. LIST OF AVAILABLE MAPS AND PORT CHARTS AVAILABLE ON REQUEST.

2. MAPS ARE PUBLISHED WITH VARIOUS SCALES $2.60 each

The following are available:

O.S.M. 500 Tampico a Progreso 1:1,023,400 1974
O.S.M. 502 Tampico a Punta del Morro 1:250,000 1974
O.S.M. 514 Coatzacoalcos-Pajaritos 1:12,500 1972
O.S.M. 516 Campeche 1:20,000 1974
O.S.M. 519 Progreso-Yukalpeten 1:12,500 1975
O.S.M. 529 Portulano de Yukalpeten 1:5,000 1975
O.S.M. 600 San Diego a San Quintin 1:290,000 1974
O.S.M. 601 Cabo San Quintin a Punta Eugena 1:511,500 1975
O.S.M. 602 Punta Eugena a Cabo San Lazaro 1:525,575 1975
O.S.M. 603 Golfo de California-Parte Norte 1:639,400 1975
O.S.M. 605 Cabo San Lucas a Manzanillo e Islas Revillagigedo 1:682,240 1975
O.S.M. 606 Acapulco A Manzanillo 1:698,700 1975
O.S.M. 607 Punta Maldonado a Puerto Madero 1:707,300 1975
O.S.M. 610 Ensenada Mazatlan incluyendo Golfo de California 1:1,601,680 1974
O.S.M. 613 San Carlos, Son 1:10,000 1974
O.S.M. 615 Mazatlan y Proximidades 1:12,500 1975
O.S.M. 616 Bahias de Manzanillo y Santiago 1:25,000 1973
O.S.M. 623 Guaymas y Proximidades 1:25,000 1974
O.S.M. 625 Portulano de Mazatlan 1:7,500 1975
O.S.M. 626 Portulano de Manzanillo 1:5,000 1973
O.S.M. 630 Bahia de Todos Santos 1:35,000 1975
O.S.M. 633 Portulano de Guaymas 1:15,000 1974
O.S.M. 640 Portulano de Ensenada 1:10,000 1975
O.S.M. 657 Salina Cruz y Proximidades 1:12,500 1975
O.S.M. 667 Portulano de Salina Cruz 1:3,500 1975
O.S.M. 701 Canal de Yucatan y Proximidades 1:906,530 1974
O.S.M. 646 Puerto Lazaro Cardenas 1:20,000 1976
O.S.M. 655 Puerto Vallarta 1:15,000 1976

(SECRETARY OF PUBLIC WORKS)

Secretaria de Obras Publicas
Direccion General de Programacion
Oficina de Cartografía
Xola 1755
Mexico, D.F. Mexico

Responsible for maintaining and updating state highway maps. Publish moderate scale road map for each state and an excellent national scale tourist map of highways.

1. TOURIST ROAD MAP 1975 no charge

Scale about 55 miles to the inch, 34 by 26 inches. Principal highways shown in colors with distances between major points. Index to cities, inset on larger scale shows area from Morelia to Vera Cruz centered on Mexico City. Reverse side has detailed maps of Mexico City, Monterrey, Acapulco, Guadalajara, and other tourist information.

[continued on p. 114]
<table>
<thead>
<tr>
<th>Code</th>
<th>Location</th>
<th>Location Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>E14 A13</td>
<td>Cuitzeo</td>
<td>Michoacan</td>
</tr>
<tr>
<td>E14 A14</td>
<td>Zinapecuaro</td>
<td>Michoacan y Guanajuato</td>
</tr>
<tr>
<td>E14 A15</td>
<td>Maravatio</td>
<td>Michoacan y Guanajuato</td>
</tr>
<tr>
<td>E14 A24</td>
<td>Tzitzio</td>
<td>Michoacan</td>
</tr>
<tr>
<td>E14 A25</td>
<td>Ciudad Hidalgo</td>
<td>Michoacan</td>
</tr>
<tr>
<td>E14 A26</td>
<td>Angangueo</td>
<td>Mexico y Michoacan</td>
</tr>
<tr>
<td>E14 A29</td>
<td>Cuautitlan</td>
<td>Mexico-Distrito Federal</td>
</tr>
<tr>
<td>E14 A46</td>
<td>Valle de Bravo</td>
<td>Michoacan y Mexico</td>
</tr>
<tr>
<td>E14 A65</td>
<td>Palmar Chico</td>
<td>Michoacan Guerrero y Mexico</td>
</tr>
<tr>
<td>E14 A79</td>
<td>Tilzapotla</td>
<td>Guerrero-Morelos-Puebla</td>
</tr>
<tr>
<td>E14 B31</td>
<td>Chalco</td>
<td>Mexico y Distrito Federal</td>
</tr>
<tr>
<td>E14 B41</td>
<td>Amecameca</td>
<td>Mexico, Distrito Federal y Morelos</td>
</tr>
<tr>
<td>G12 B12</td>
<td>Guasimas</td>
<td>Sonora</td>
</tr>
<tr>
<td>G12 B33</td>
<td>Pueblo Yaqui</td>
<td>Sonora</td>
</tr>
<tr>
<td>G12 B34</td>
<td>Ciudad Obregon</td>
<td>Sonora</td>
</tr>
<tr>
<td>G12 B44</td>
<td>Villa Juarez</td>
<td>Sonora</td>
</tr>
<tr>
<td>G12 B45</td>
<td>Navojoa</td>
<td>Sonora</td>
</tr>
<tr>
<td>G13 A17</td>
<td>Santa Gertrudis</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A18</td>
<td>Naica</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A19</td>
<td>La Cruz</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A27</td>
<td>La Jabonera</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A28</td>
<td>La Boquilla del Conchos</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A29</td>
<td>Ciudad Camargo</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A37</td>
<td>Valle de Zaragoza</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A38</td>
<td>El Nopal</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A29</td>
<td>San Antonio del Potrero</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A48</td>
<td>El Dorado</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A49</td>
<td>Villa Lopez</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A57</td>
<td>Santa Barbara</td>
<td>Chihuahua y Durango</td>
</tr>
<tr>
<td>G13 A58</td>
<td>Valle de Allende</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A59</td>
<td>Pueblito de Allende</td>
<td>Chihuahua</td>
</tr>
<tr>
<td>G13 A67</td>
<td>La Providencia</td>
<td>Durango y Chihuahua</td>
</tr>
</tbody>
</table>

---

* Acquired in January 1977 at Map Room, University of California, Santa Cruz, via "good offices" and personal visit to CETENAL in Mexico City by Paul Martinez-Perry, Map Librarian, San Jose State University.
G13 A77 Metalotes  
G13 A78 Villa Ocampo  
G13 A89 Revolucion  
G13 B11 Las Arenosas  
G13 B13 Honorato de Abajo  
G13 B21 La Enramada  
G13 B51 San Jose Las Adargas  
G13 B61 Laguna la Estacada  
G13 D12 Santo Domingo  
G13 D13 La Cadena  
G13 D14 Mapimi  
G13 D15 Bermejillo  
G13 D24 Vicente Suarez  
G13 D25 Torreon  
G13 D34 La Loma  
G13 D43 Nazas  
G13 D44 Velardeña  
G13 D45 Jimulco  
G13 D53 Peñón Blanco  
G13 D54 Quencame  
G13 D55 La Lagunilla  
G13 D63 Ignacio Ramirez  
G13 D64 Jesus Agustin Castro  
G13 D65 Doce de Diciembre  
G13 D72 Carlos Real  
G13 D73 Guadalupe Victoria  
G13 D74 Cuauhtemoc  
G13 D75 Juan Aldama  
D13 D83 Tuitan  
G13 D84 Ignacio Lopez Rayon  
G13 D85 Ramon Corona  
G13 D86 La Laguna  
G14 A15 El Azulejo  
G14 A16 San Enrique  
G14 A24 Juarez  

Durango  
Durango y Chihuahua  
Durango  
Chihuahua  
Chihuahua  
Chihuahua y Durango  
Durango  
Durango  
Durango  
Durango  
Durango  
Durango  
Durango y Coahuila  
Durango  
Durango  
Durango  
Durango  
Durango  
Durango  
Durango  
Zacatecas y Durango  
Durango  
Durango y Zatecas  
Zacatecas y Durango  
Zacatecas  
Coahuila  
Coahuila y Nuevo Leon  
Coahuila
G14 A25  Don Martin  Coahuila y Nuevo Leon
G14 A26  San Jose  Nuevo Leon y Coahuila
G14 A35  Salinillas  Nuevo Leon y Coahuila
G14 A36  Camaron  Nuevo Leon
G14 A37  Estacion Jarita  Nuevo Leon y Tamaulipas
G14 A46  Ciudad Anahuac  Nuevo Leon
G14 A47  Nuevo Camaron  Nuevo Leon y Tamaulipas
H11 B22  Rodolfo Sanchez Taboada  Baja California
H11 B74  Venustiano Carranza  Baja California
H12 B43  Jose Maria Morelos  Sonora
H12 B73  Arizpe  Sonora
H12 C15  Puerto Libertad  Sonora
H12 C78  Tastiota  Sonora
H12 C89  San Alfonso  Sonora
H12 D11  La Poza  Sonora
H12 D12  Opodepe  Sonora
H12 D13  Aconchi  Sonora
H12 D21  Carbo  Sonora
H12 D23  Baviacora  Sonora
H12 D31  San Miguel de Horcasitas  Sonora
D12 D32  Ures  Sonora
H12 D33  Puerta del Sol  Sonora
H12 D34  San Pedro de la Cueva  Sonora
D12 D41  Hermosillo  Sonora
H12 D42  Santa Rosalia  Sonora
H12 D43  Mazatan  Sonora
H12 D52  La Colorada  Sonora
H12 D53  Cobachi  Sonora
H12 D55  Bacanora  Sonora
H12 D61  Represito de Lujan  Sonora
H12 D62  San Jose de Pimas  Sonora
H12 D63  Buenavista  Sonora
H12 D71  Ortiz  Sonora
H12 D72  La Misa  Sonora
H12 D73  Agua Fria  Sonora
H12 D81  Jose Maria Morelos y Pavon  Sonora
Continued from "Some Important Cartographic Agencies and Available Maps of Mexico", by J. Granville Jensen

[continuation of p. 110]

2. STATE MAP SERIES (Secretaria de Obras Publicas)

Scales vary, each sheet 23 by 33 inches. Maps indicate 8 categories of roads, airports, and cities in 9 categories of size. Black and white relief shading as background. Available to libraries on request.
ON THE STATE OF AMERICAN ALMANAC MAPS

Harold M. Otness

Southern Oregon State College Library

Almanac maps are among the most frequently consulted of all maps simply because almanacs are found almost everywhere. In many homes and offices they, along with dictionaries, are the only reference books available.

Almanacs are great sources of information. On a facts-per-dollar basis, they are undoubtedly the best value in reference books. In fact they are so good that criticizing them is much like trying to find fault with the Ten Commandments, of which Mencken said we should be grateful that there are only ten. But the fact is that almanac maps leave much to be desired. Consider the following: the current editions of World Almanac and Information Please do not have world maps and the Associated Press Almanac, now published by Hammond, shows not a single mile of railroad or highway. These three major American almanacs are without climatic and vegetation maps, city plans of reasonable usefulness, and only one of them even attempts to show the distribution of such critical resources as petroleum, coal, or anything at all to do with food.

An investigation of the maps that are found in almanacs suggest that they are too frequently not designed for almanac use but rather taken from other sources and reduced in size to fit the smaller format. As a consequence, some of the maps are difficult to read due to tiny and often cluttered print.

This paper is a look at the maps found in the popular American almanacs of 1976, criticizing them keeping in mind the size and cost limitations that are essential to the almanac concept (after all, almanacs are not atlases), and making a few suggestions for improving them.

WORLD ALMANAC

The World Almanac and Book of Facts is the best known and most popular of the American almanacs. It began in 1868 but did not include maps until a few years ago. Today it uses Rand McNally maps. The current edition has eight full-page color maps depicting continents plus maps of the United States, Canada, and China. Omitted entirely are maps of Australia and the South Pacific, Mexico, and Antarctica. The world map was dropped just this year. The maps are essentially political. They show no relief or surface
transportation (however the route of the Alaska Pipeline has been dotted in), the projections are not specified, and the lettering is heavy and unattractive. A few inserts emphasize important areas but they are so small as to be virtually useless (the Middle East is "enlarged" to an area 1-1/2" x 1-3/4"--hardly enough detail to follow the daily news). The best feature of these maps are their place-name indexes on the margin of each map. No other almanac has these very useful locational tools.

The current edition acknowledges the Bicentennial by including a special section of ten pages of color maps depicting battles of the Revolution, plus a population density map for 1775 and a map of the United States showing the date of the earliest exploration and settlement of each state. These maps are from Early American Wars and Institutions (West Point, 1974) and are compiled by Edward J. Krasnoborski. They are simple but effective. They represent a breakthrough in thematic mapping in almanacs.

These two map sections comprise the total maps in World Almanac. There are no state maps or nation maps, excepting the three mentioned. While World Almanac is the standard against which other almanacs are measured, in terms of general map coverage it is the poorest of the three.

INFORMATION PLEASE ALMANAC

Information Please, a latecomer, is a strong challenger to World Almanac. It began in 1947 and by the late 1950's it had introduced maps to American almanacs. The current edition has twenty-five pages of maps "prepared by Vaughn Gray." They are simple but very effective black and white maps, with hand lettering, stippling, and some relief sketched in. Global projections are very well used. One map centers on the North Pole, another on the Mid-Pacific, and still another on the North Atlantic. The Western Europe map centers on Paris and has concentric rings at 200 mile intervals. The reader can quickly see that London is closer to Paris than is Marseille.

There is a full-page map of Berlin and its transportation lifelines. Several maps are devoted to the Middle East including a quarter-page plan of Jerusalem. Some of the maps show oilfields and pipeline routes. The South America map has symbols representing petroleum, iron, and cattle, and the Australia map is marked for minerals. While these symbols do not reflect quantity or value, they at least indicate where these resources are found.

Information Please maps emphasize military data. They show NATO and CENTRO alignments and point out major military installations. There are special maps showing the sensitive USSR-China border and the India-China border.

For following current events, the Information Please maps are the best. While the maps are simple, the data is very well selected and
presented for easy comprehension. Cartographically speaking, this almanac is the most interesting. It does, however, fall short in its coverage of the United States.

Two other map features should be noted. Information Please has a listing of oil companies supplying road maps. This is followed by a listing of foreign government tourist offices in the United States—another good source for free maps. This almanac also cites maps in its general index.

ASSOCIATED PRESS ALMANAC

This work is the successor to the New York Times Almanac. Since 1975 it has been published under the Hammond imprint so it is no surprise that it uses Hammond maps. It has twelve pages of color maps of the continents. These are the familiar Hammond maps that show up in numerous publications. The national boundaries are colored, land surfaces are white, and oceans are a light blue. The lettering is very small and there is no relief or surface transportation shown. Locational insets are used. One of the world maps shows time zones. Some maps cover two pages causing the middle area to disappear into the deep gutter. Thus on the North America map almost everything on a line from San Francisco to Washington, D. C. is lost and the nation appears to be vertically pinched.

In addition to the colored general maps, there are black and white maps of each U. S. state, the Canadian provinces, Germany, the European portion of the Soviet Union, Japan, China, and the United Kingdom. The state maps show each county and county seat. Deserts, swamps, Indian reservations, and national parks are shown and there are locational insets and insets magnifying urban areas. These state maps are quite good. The nation maps, however, were apparently drafted to be used as a larger format. They carry so much lettering that reduction has made them very cluttered and difficult to read. On the Germany map, for instance, it is virtually impossible to determine the border between East Germany and West Germany.

All the black and white maps appear adjacent to descriptions of the states and nations which is convenient for the reader.

The Associated Press has the most maps of the three major American almanacs and its coverage of the United States and Canada is the most thorough. However, the quality of the maps could be improved and some thematic mapping would certainly enhance the almanac's use. As a minor point, the paper used for all but the color maps is a very cheap and dirty-looking newsprint. Better paper alone would improve the readability and attractiveness of the maps.

THE PEOPLE'S ALMANAC

This work represents a new concept in almanacs. In the words of its
compilers David Wallenchinsky and Irving Wallace, it "...attempts to turn
each fact around and show the world its backside." Its nearly 1,500 pages
brim with "...the little known and the curious..." that defies simple
description.

It only has a few maps, but they are most interesting. Each occupies
a full page and is in color. There is a conventional world map on the
Mercator projection followed by one based on the Peters projection. The
latter is named after its creator, a German historian. This orthogonal
projection, claims Peters, "...is absolutely accurate on areas, and fifty
per cent more accurate on land shapes than Mercator." It does, however,
substitute distortions of its own.

Another interesting map is G. Etzel Pearcy's "38 State Nation" which
draws state boundaries based on physical and cultural considerations rather
than historical accident. They generally run through areas of low popula-
tion. The state names are based on names of discoverers and Indian tribes.
The three West Coast states are Cascade, El Dorado, and San Gabriel.

Stanley D. Brunn's "16 State Nation" map is also included. Its basis
is political expediency and its states bear such names as Pacifica, Angelina,
Yankee, Empire, and Tropicana. Alaska and Hawaii are curiously omitted.

There are two fantasy maps. One shows the course of the "Truelove
River" which winds its way through Misery Marsh, Tenderness Crossing, and
Opposition Bend. The "Map of Matrimony" is a marine chart "...shewing to
timid lovers the orbit of affection to the true haven of conjugal happiness." Both are marked "copyright" but no further information is provided.

There is a series of five continent maps which have, instead of city
names, the names of multinational companies headquartered there. Thus San
Francisco appears as Bank America Corporation, Oakland is Safeway Stores,
Detroit is General Motors, London is Unilever, and Tokyo is Nippon Steel.
However most nations are not assigned a single corporate or city name
whatsoever so these maps suffer from the failure to carry out an interesting
idea.

The only other map in the almanac depicts the Apollo landing sites on
the moon.

The People's Almanac is a good source for unusual maps which are not
easily found elsewhere, and map librarians would do well to keep this work
in mind. The People's Almanac also has a seven page article "Sightseeing
in Your Neighborhood" which encourages readers to walk around their
community observing and speaking to people with the purpose of compiling
a neighborhood sketch map. In addition it lists two map dealers under
"Attic and Junkyard:" Bartfield and Cape Cod Books. If you find rare maps,
these firms will buy them from you.
CONCLUSION

While it is tempting to deplore the present state of almanac maps, it is more constructive to praise their good features and offer suggestions for improvement. Each almanac has some good, and some promising, map features. Almanac maps must necessarily be of very small scale to fit the almanac format. This means that world and continent maps will not be able to portray much detail, and they shouldn't try to. They should depict the nations of the world, their capitals and major cities, and only the most important of natural features. Larger scale maps should show individual states and major nations of the world in more detail. These maps should have placename indexes accompanying them. All maps should show important transportation networks. A handful of cities of the world such as Berlin, Beirut, Jerusalem, and areas such as the Panama Canal Zone (the list changes from time to time), are in the news often enough to deserve full-page map treatment.

But what almanacs most need is some thematic mapping of the world's energy and food resources. These are highly significant matters to the majority of the world's population, and their importance will increase in the future. These maps need not be elaborate but they should use proportional symbolization to show where the resources are located and where they are consumed. Other data that could be shown in map form include the population distribution of the world, per capita income by nation for the world, and life expectancy by nation for the world. These are important matters.

It is not realistic to expect almanacs to include all the maps found in a good general atlas. The small page format and the high cost of map production and printing make this unreasonable. But one should expect basic general map coverage in an almanac. Information Please has shown that simple black and white maps can be very effective, World Almanac has shown, through its Bicentennial map feature, that thematic mapping has a place in almanacs, and the Associated Press Almanac has shown that an almanac's value is greatly enhanced by the inclusion of maps for each state. The World Almanac should be commended for its place name indexes, Information Please for its fine global projections, and Associated Press for sheer volume of maps. And the People's Almanac should be praised for its unusual maps.

There is intense competition between American almanac publishers and the public ultimately benefits by getting a better product. There is much room for improvement in almanac maps, and more competition in this area will benefit those who don't have immediate access to sources of more specialized maps.
PUBLICATIONS OF RELEVANCE

CONTRIBUTIONS BY:  AB = Anna Blustein  SJ = Sheila Johnson
ALB = Arthur L. Burt  EP = The Editor
BK = Bob Krieger

ALB = Vice-President, PAIGH (Pan American Institute of Geography and History)
Rockville, Maryland

COUNTRIES OF LATIN AMERICA - RESEARCH GUIDE SERIES

The Pan American Institute of Geography and History (PAIGH), a specialized Institute within the Organization of American States (OAS), is producing a series of Research Guides on the countries of Latin America.

The first volume issued, Research Guide to Colombia, was published in 1975. At the present time, other guides for Honduras, Guatemala, Costa Rica, El Salvador, Nicaragua, Panama and Peru are under preparation and should be published in 1977.

The Guides represent an up-dating and expansion of similar works produced by the Pan American Union in 1966. The first part of each guide contains index maps on earth satellite photography, radar imagery, aerial photography, topographic and planimetric mapping, geologic mapping, and several areas of special subject mapping, and addresses where they may be obtained. A geographic bibliography is contained at the end of each guide.

The Colombia Guide, as will be the others in the series, comes in an 8½" by 11" format. This particular Guide contains 58 pages.

The first volume, Research Guide to Colombia, may be purchased by addressing a request to:

Servicios Bibliográficos
Secretaría General del IPGH
Ex-Arzobispado 29
México 18, D. F.
México

The price of the Colombian Guide is $5.00 U.S. and it is available in either English or Spanish.

BK = Cartographic Section, California Department of Transportation, Sacramento

California. Department of Transportation.
California City and Unincorporated Place Names, July 1, 1976. Sacramento, 1976. $3.71 each, available from California Division of Highways, P.O. Box 1499, Sacramento, CA

Not intended as a complete gazetteer of California, but rather a tabulation designed primarily for internal Department use. Names are those shown on the County Road System maps, produced by the Department.
EP = The Editor (from material in hand & publisher's blurbs)

the Tenth Annual Meeting of the Geoscience Information Society, October 21st,
1975, Salt Lake City, Utah. "Retrieval of Geoscience Information". $12.00

Available, prepay, from Geoscience Information Society, c/o American Geologi-
cal Institute, 5205 Leesburg Pike, Falls Church, VA 22041. Make check pay-
able to "Geoscience Information Society".

International Maps and Atlases In Print, 2nd edition. Edited by Kenneth L.
IC 73-13336. ISBN 0-85935-036-3. $55.00 plus shipping and handling.

The first edition of this work was published in 1974. This edition contains
descriptions of more than 15,000 maps and atlases produced by some 1,000
commercial and official map publishers throughout the world. About 400
index maps have been updated to indicate the area-coverage of multi-sheet ser-
ies published to date.

Winch is a cartographic editor with George Philip Printers Ltd.

A Union List of Map Series: Mexico and Central America, held by the libraries
of The University of California and Stanford University. Compiled by
R. Philip Hoehn. Second Edition. The Bancroft Library, University of Cal-

This second edition, like the first, contains map series at a scale of
1:500,000 and larger. Hydrographic series are omitted. The first edition
appeared in February 1976, and future editions are planned. It has aided
the participating libraries in inter-library loan transactions, and acquisi-
tion plans.

U.S. Library of Congress. Geography and Map Division.
List of Publications. Compiled May, 1976, this brochure cites publications
authored and/or edited by members of the G&M Division staff, regardless of
where the item was published. The list includes availability information,
price or free, and original source if a reprint.

U.S. Library of Congress. Geography and Map Division.
Selected Sources for Maps Published by International Organizations. Compiled

U.S. Library of Congress. Geography and Map Division.
Selected United States Private and Commercial Map Publishers. Compiled by

Types of Maps Published by Government Agencies. A brochure, folded into 8 pan-
els. Cites Type, Publishing Agency, Available From, and a list of addresses.
Item is distributed by GPO for 35 cents; depository libraries got one auto-
matically. Also available from NCIC, 507 National Center, Reston, VA 22092.
Free?
Documents Index.


$45.00 per copy ($40. cash with order) until March 1, 1977, when the price will be $50. per copy. Documents Index, P.O. Box 195, McLean, VA 22101

Documents Index.


The purpose of this volume is to provide an atlas giving the named townships which exist today, and an index to the 22,000 townships, towns, plantations, gores, etc. located in these States.

Only 23 States are included in this volume, Nevada being the only western State included. All other States are public land survey States, which may be included in a companion volume being considered. [No date set.]

Price is $50. per copy. Andriot Associates, P.O. Box 195, McLean, VA 22101

Moak, Jefferson M.

Philadelphia Mapmakers. A listing of civil engineers, surveyors, lithographers, engravers, printers, publishers, colorists and mounters of maps who have located themselves within the bounds of Independence Mall and Independence National Historic Park during the years 1860-1890; being 15 years on each side of the Centennial of the signing of the Declaration of Independence.


$2.00 plus 25¢ for post & handling; The Shackamaxon Society, Inc., P.O. Box 1777, Philadelphia, PA 19107  ATTN: Publications

This 32-page, illustrated, brochure style pamphlet, is throughout a well-written and researched cartobibliographical aide. Its sub-title really gives the full story as to content. It can serve as a model for anyone contemplating compilation of a list for another geographic area, although one might consider another format. This work is 8½"x3-3/4", with an interesting fold-out map/illustration at the centerfold. Its utility as a reference tool outweighs the, in the view of this reviewer, awkward format.

National Demographic Research Corporation.


The publisher's blurb is a bit confusing as to price; both of these statements appear, with no precise indication: "Libraries please discount 30% from List Price", and, "Enclosed is $90.00 for each directory".

528 p., 11" x 13", 940 maps in color and 100 maps in black and white. $95.00 University of Minnesota Press, 2037 University Avenue Southeast, Minneapolis, Minnesota 55455; in Canada: Burns and MacBachem Ltd., 62 Railside Road, Don Mills, Ontario; in the United Kingdom: Transatlantic Book Services, Ltd., 7 Maiden Lane, London WC2E 7NA.

This work is Volume 3 of the Comparative Metropolitan Analysis Project, published by the Ballinger Publishing Company, 17 Dunster Avenue, Cambridge, Massachusetts 02138.

The following twenty metropolitan regions are covered in the present work:

- Boston
- New York-Northern New Jersey
- Philadelphia
- Hartford-Connecticut Valley
- Baltimore
- New Orleans
- San Francisco-Oakland
- Pittsburgh
- St. Louis
- Cleveland
- Chicago
- Detroit
- Minneapolis-St. Paul
- Seattle
- Dallas-Fort Worth
- Houston
- Los Angeles
- Miami
- Atlanta
- Washington, D.C.

Many cities and towns within these regions also are represented in the presentation of data. Scales 1:2M for entire area; 1:1M for SMSA's; & 1:250,000.

SJ = Map Librarian, University Library, Texas A&M University, College Station

Atlas of Texas. University of Texas at Austin, Bureau of Business Research. 1976. 179 pp. $12.00 This is an enlarged and updated edition including a new section of cultural and historical maps. Many maps are in color.

Texas Oil and Gas Fields. A map, about 1:4M, with table of county production statistics to January, 1975. Texas Mid Continent Oil & Gas Association. Oil Information Committee, 1341 West Mockingbird Lane, Suite 1111-E, Dallas, TX 75247. Free

World Biogeographical Provinces. A map, scale 1" = 625 miles, in color. By Miklos D. F. Udvardy, 1975, it is published by CoEvolution Quarterly, P.O. Box 428, Sausalito, California 94965. $3.00

Based on Occasional Paper No. 18 of the International Union for Conservation of Nature and Natural Resources, it is an attempt to divide the world not only according to vegetation but also according to plant and animal distribution.

AB = University Research Library, University of California, Los Angeles, CA

De Laubenfels, David J , 1925-- Mapping the world's vegetation: regionalization of formations and flora / 1st ed. -- Syracuse, N.Y. : Syracuse University Press, 1975. xvii, 246 p.; ill., maps; 24 cm. --(Syracuse geographical series no. 4)
The Defense Mapping Agency/Army Map Service maps represent the most comprehensive collection of maps of international scope distributed by any United States government agency. Yet this valuable resource is frequently utilized the least, and as a last resort when all else fails, by many, if not most, of the DMA depositories. The potential to satisfy a patron desiring a city plan of an Albanian seaport (and who knows when a former Italian World War II veteran will arrive on the scene and desire to reminisce over his old stomping grounds, however temporary they may have been), a roadmap of Portugal or the route of the Murmansk Railway, or a fairly detailed topographic map of any area of the world presents itself in a most confusing manner when one is confronted with the several overlapping DMA and AMS catalogs, each without any apparent internal order.

The lack of a classified arrangement of the catalogs, coupled with the problem that newer catalogs partially overlap with older editions, and few of us seem to have bothered to integrate them, has made the use of the catalogs, and consequently finding any particular item in the collection, a cumbersome proposition - flipping through several catalogs, page by page, not knowing whether what we need is even there or not until the final page is gleaned. Thus, many librarians regard a search through the DMA collection a bore rather than the rewarding experience that it should and could very well be, and consequently, many potentially useful maps contained in numerous series within the DMA collection are largely overlooked, either through a lack of awareness that such maps exist in the collection, and/or due to the time and trouble encountered in searching through the depository catalogs.

A good example of very useful series within the DMA collection which are frequently overlooked in some libraries are the various series of detailed state topographic maps. At most libraries that I have visited, librarians seem to be familiar with and make use of the series 1301 topographic maps at the scale of 1:1,000,000 which provide world coverage. Frequently the 1301 index sheet is removed from the catalog and openly displayed. If these maps do not show sufficient detail, a little prodding may persuade the librarian to flip through the catalogs in search of a more specific series covering a particular area, frequently at a scale of 1:250,000. But how many librarians are aware that, for all but a few states of the U.S., a complete set of topographic sheets, almost identical to those issued by the U.S.G.S. are available in the "V" series of the DMA collection? These maps are not current. Most are dated around 1947. However, for detailed voverage of physical features of the landscape, they are frequently the best a library has for many states, as most smaller and medium size libraries do not receive the 7.5' and 15' U.S.G.S. topographic sheets for states other than their own and neighboring states.
These state topographic sheets in the DMA collection were issued under the agency's former name, Army Map Service, and, for most states, were issued in two separate sets within the "V" series. For each state covered, sets with index numbers in the 800 range (e.g., V895 for California) denote a complete set of 7.5' topographic sheets for that state at a scale of 1:25,000, which were compiled in cooperation with, and are very similar to, those issued by the U.S.G.S. Correspondingly, in the same relative position in the 700 range of the "V" series (e.g., V795 for California), there is a complete set of 15' topographic sheets for that state at a scale of 1:50,000, which are slightly more detailed than the Geological Survey's 15' topographic sheets, which are at a scale of 1:62,500. So, before you turn a patron away who is seeking a detailed topo of some midwestern or eastern state, check your DMA collection in the "V" series. A somewhat dated topo may suffice for his or her particular purpose, and is usually better than none at all.

Having an index with some logical systematic arrangement would provide quick and accurate access to the "V" series of state topographic sheets and all other series within the DMA collection. The following schedule consists of the title, which, in all cases, is the area covered of each series issued in the DMA depository program, arranged in alphabetical order and accompanied by all DMA-DMS index numbers of series having that title.

The schedule is arranged in two sections. The first schedule applies to the newer group of lettered and unlettered series issued in part under the agency's present name, the Defense Mapping Agency, and in part under the agency's previous name, the Army Map Service. The second schedule applies to the earlier group of G.S.G.S. (Geographical Section General Staff, British War Office) seriesreprinted by the Army Map Service and distributed to depository libraries. The two groups are not interfilable, except in cases where a particular G.S.G.S. series has been updated and subsequently assigned a lettered series index number. For libraries having complete depository holdings, this will necessarily require use of both schedules if the collection is to be searched in its entirety. However, for those libraries having only the newer group of lettered and unlettered series, use of the first schedule will allow efficient searching through these series without the encumbrance of scanning over numerous series of older maps not available in their collection.

Perusal of the two schedules will reveal several factors relevant to their use. Perhaps the most obvious feature is the grouping of index numbers denoting different series and thus types of maps of identical areas, a quality sadly lacking in the depository catalogs. However, caution must be exercised in contemplating a search of all maps of a given area. Note that regional designations, e.g., eastern, western, etc., generally precede the primary or official area toponym. Consequently, to locate all maps issued of Siberia, for instance, one should look for "Eastern Siberia", and even "Asiatic Russia", in addition to "Siberia". Establishing a cross-reference file would be the next logical step in improving the schedules. Variant spellings and obsolete usage, for instance, "Bas Congo" rather than "Congo", will also create confusion in several instances and require cross-referencing.

It is suggested that librarians look over the schedules closely, familiarize themselves with strengths and weaknesses of the collection, and establish cross-reference files for regional designates within primary areas and
 obsolete usage and variant spelling of toponyms. Keep in mind that these
schedules are designed primarily to expedite searching through the DMA/AMS
catalogs, rather than the collection itself. However, when one becomes fam-
iliar with the numerous series, especially those containing a single or small
number of maps, the schedules can frequently be used to provide access direct-
ly to the collection.

**DMA/AMS LETTERED AND UNLETTERED SERIES**

<table>
<thead>
<tr>
<th>Africa</th>
<th>A511</th>
<th>Bonaire</th>
<th>E882</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Africa</td>
<td>2201</td>
<td>Borneo</td>
<td>T531 T532</td>
</tr>
<tr>
<td>Africa (Air)</td>
<td>P404</td>
<td>British Columbia A521 A522 A621 A721</td>
<td>E491</td>
</tr>
<tr>
<td>Africa Road Maps</td>
<td>2101 2202 2204 2301</td>
<td>British Guiana A491</td>
<td>E552</td>
</tr>
<tr>
<td>Africa--Special Strategic Maps</td>
<td>2203</td>
<td>British Honduras</td>
<td>E491</td>
</tr>
<tr>
<td>Alabama</td>
<td>V744 V844</td>
<td>British Isles Ordnance Survey M521</td>
<td>E491</td>
</tr>
<tr>
<td>Alaska</td>
<td>Q501</td>
<td>Burma</td>
<td>U542</td>
</tr>
<tr>
<td>Alaska Communication Map</td>
<td>8302</td>
<td>California V795 V895</td>
<td>E491</td>
</tr>
<tr>
<td>Algeria</td>
<td>P541 P741</td>
<td>Cambodia, Laos, Vietnam 5202</td>
<td>E491</td>
</tr>
<tr>
<td>Amboina Archipelago</td>
<td>T761</td>
<td>Canada (Air) A402</td>
<td>E491</td>
</tr>
<tr>
<td>Arabia</td>
<td>K462</td>
<td>Canary Islands City Plans P911</td>
<td>E491</td>
</tr>
<tr>
<td>Arabian Peninsula</td>
<td>5211</td>
<td>Cape Verde Islands G611</td>
<td>E491</td>
</tr>
<tr>
<td>Arizona</td>
<td>V798</td>
<td>Caroline Islands W751</td>
<td>E491</td>
</tr>
<tr>
<td>Arkansas</td>
<td>V784 V884</td>
<td>Caucasus N561</td>
<td>E491</td>
</tr>
<tr>
<td>Aruba</td>
<td>E781</td>
<td>Celebes T541</td>
<td>E491</td>
</tr>
<tr>
<td>Asia</td>
<td>5204</td>
<td>Celebes Island T543</td>
<td>E491</td>
</tr>
<tr>
<td>Asia--Special Strategic Maps</td>
<td>5207</td>
<td>Central America E501</td>
<td>E491</td>
</tr>
<tr>
<td>Asia Transportation Maps</td>
<td>5201</td>
<td>Central Europe M501 M508</td>
<td>E491</td>
</tr>
<tr>
<td>Australia</td>
<td>9301</td>
<td>Central Europe Road Maps M405</td>
<td>E491</td>
</tr>
<tr>
<td>Azores</td>
<td>M683</td>
<td>Central Honshu L774</td>
<td>E491</td>
</tr>
<tr>
<td>Bahamas</td>
<td>E711</td>
<td>Central Japan L571</td>
<td>E491</td>
</tr>
<tr>
<td>Balearin Island</td>
<td>K761</td>
<td>Central Philippines S831</td>
<td>E491</td>
</tr>
<tr>
<td>Balearic Islands</td>
<td>M682 M788</td>
<td>Central Siberia N503</td>
<td>E491</td>
</tr>
<tr>
<td>Balkans</td>
<td>M506</td>
<td>China L500</td>
<td>E491</td>
</tr>
<tr>
<td>Barbados Road Map</td>
<td>E745</td>
<td>China City Plans L901</td>
<td>E491</td>
</tr>
<tr>
<td>Bas Congo</td>
<td>Z611</td>
<td>China Proper, N.E. L531</td>
<td>E491</td>
</tr>
<tr>
<td>Belgium and N.E. France</td>
<td>M603</td>
<td>China Proper, N.W. L532</td>
<td>E491</td>
</tr>
<tr>
<td>Belgium City Plans</td>
<td>M932</td>
<td>China Proper, S.E. L581</td>
<td>E491</td>
</tr>
<tr>
<td>Bismarck Archipelago</td>
<td>T791</td>
<td>China Road Maps L301</td>
<td>E491</td>
</tr>
<tr>
<td>Location</td>
<td>Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chishima--Retto</td>
<td>L763</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christmas Islands (Indian Ocean)</td>
<td>T723</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorado</td>
<td>V777 V877</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td>V716 V816</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continental Southeast Asia</td>
<td>1206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cook Islands</td>
<td>X771</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corsica</td>
<td>M763</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corsica City Plans</td>
<td>M963</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crete</td>
<td>M405a M701</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cuba</td>
<td>E421</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cuba and Jamaica</td>
<td>E521</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cuba Communications</td>
<td>E321</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curacao</td>
<td>E883</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyprus</td>
<td>M504</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrenaica</td>
<td>P662</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware</td>
<td>V732 V832</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>M514</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dodecanese Islands</td>
<td>M604 M801</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dominican Republic Road Map</td>
<td>E532</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Democratic Republic of the Congo</td>
<td>Z523</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Democratic Republic of the Congo Road Map</td>
<td>Z201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dutch Borneo</td>
<td>T731</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Africa</td>
<td>Y401 Y502 Y503</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Asia and North Pacific</td>
<td>1201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Asia Road Maps</td>
<td>1306</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Indies</td>
<td>T201 T503 9306</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Asia</td>
<td>5301 5305</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern China</td>
<td>L704</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Europe</td>
<td>N501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Siberia</td>
<td>N504</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern South America</td>
<td>H401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern United States</td>
<td>V501 V601</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Egypt</td>
<td>P472 P671</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Egypt City Plans</td>
<td>P971</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eurasia</td>
<td>5302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eurasia--Strategic Planning Maps</td>
<td>1127</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe</td>
<td>6203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe (Air)</td>
<td>M404</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe, North Africa &amp; Asia</td>
<td>1202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe--Official Road Map for Allied Forces</td>
<td>M305 M406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe Road Map</td>
<td>6302 6303</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe Road Maps</td>
<td>M505</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe--Special Strategic Maps</td>
<td>6201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European U.S.S.R.</td>
<td>5307</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Faeroes</td>
<td>M623</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federation of Rhodesia and Nyasaland</td>
<td>Z542</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiji Islands</td>
<td>X551</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>M513</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida</td>
<td>V745 V847</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formosa City Plans</td>
<td>L991</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formosa (Taiwan)</td>
<td>L593 L792</td>
<td></td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>M561 M562 M661 M661S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>France and Belgium</td>
<td>M703</td>
<td></td>
<td></td>
</tr>
<tr>
<td>France City Plans</td>
<td>M961</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Guinea and Sierra Leone City Plans</td>
<td>G941</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French West Africa</td>
<td>G501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French West Africa City Plans</td>
<td>G901</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Georgia</td>
<td>V745 V845</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>M541 M641 M641S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana Road Maps</td>
<td>G451</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Britain</td>
<td>M523</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Britain (Aeronautical)</td>
<td>M422</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Natuna (Natoena)</td>
<td>T632</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenland</td>
<td>4201 C401 C501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grenada Island</td>
<td>E744</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guam</td>
<td>W742</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hawaiian Islands</td>
<td>W532</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hokkaido</td>
<td>L764</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holland</td>
<td>M631</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holland--Railways and Waterways</td>
<td>M431</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Code(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iberian Peninsula</td>
<td>M581</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iceland</td>
<td>C561 C562 C661 C866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iceland City Plans</td>
<td>C961</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illinois</td>
<td>V763 V847</td>
<td></td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>U501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>India and Pakistan</td>
<td>U502</td>
<td></td>
<td></td>
</tr>
<tr>
<td>India Road Maps</td>
<td>5206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indiana</td>
<td>V751 V851</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indochina and Thailand</td>
<td>L509</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indonesia</td>
<td>T503</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iran Road Map</td>
<td>K201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iraq and Iran</td>
<td>K501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ireland Road Map</td>
<td>M421</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Island of Ambon and Ceram</td>
<td>T663</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italy</td>
<td>M591 M691 M791</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italy and Neighboring</td>
<td>M392</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Countries (Railways)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italy Road Map</td>
<td>M391</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italy Road Maps</td>
<td>M592</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jamaica</td>
<td>E621</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan Mayen</td>
<td>C651</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>L506 5204</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan City Plans</td>
<td>L902</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan--Government Railroads</td>
<td>L303</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan Road Maps</td>
<td>L302 L503</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java and Madura</td>
<td>T221 T722</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java, Madura and Bali</td>
<td>T521</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jordan</td>
<td>K332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>V778 V878</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Katanga Province</td>
<td>Z521</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kentucky</td>
<td>V753 V853 V853M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korea</td>
<td>L551 L552 L751</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korea City Plans</td>
<td>L951</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korea Road Maps</td>
<td>L351 L451</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kyushu</td>
<td>L772</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lesser Antilles</td>
<td>E641 E741</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lesser Antilles (Trinidad)</td>
<td>E541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lesser Sunda Islands</td>
<td>T551 T552</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Libya</td>
<td>P461</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Louisiana</td>
<td>V785 V885</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luzon</td>
<td>S712</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madagascar</td>
<td>0471</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madeira Islands</td>
<td>P721</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maine</td>
<td>V711 V811</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malaya</td>
<td>L705</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malaya (Road Map)</td>
<td>L305</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malta and Gozo</td>
<td>M893</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malta City Plans</td>
<td>M991</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchuria</td>
<td>L541 L542</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchuria and Adjacent Regions</td>
<td>5205</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchuria City Plans</td>
<td>L941</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchuria Road Map</td>
<td>L201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mariana Islands</td>
<td>W543</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marianas Islands</td>
<td>W541 W741</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marianas Islands (Rota Island)</td>
<td>W841</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maryland</td>
<td>V733 V833</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Massachusetts</td>
<td>V814</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Martinique</td>
<td>E743</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mediterrane Orientale</td>
<td>1205</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melanesia</td>
<td>X401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>F401 F541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michigan</td>
<td>V762 V862</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle Danube</td>
<td>M671 M671S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle East Briefing Map</td>
<td>1308</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mindanao</td>
<td>S651 S751 S851</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota</td>
<td>V872</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mississippi</td>
<td>V743 V843</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri</td>
<td>V779 V879</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molukken Islands</td>
<td>T662</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mongolia</td>
<td>L522</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Code</td>
<td>Code</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>Morocco</td>
<td>P531</td>
<td>P732</td>
<td></td>
</tr>
<tr>
<td>Morocco City Plans</td>
<td>P931</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Murmansk</td>
<td>N412</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Caledonia</td>
<td>X402</td>
<td>X631</td>
<td></td>
</tr>
<tr>
<td>New Guinea</td>
<td>T401</td>
<td>T504</td>
<td></td>
</tr>
<tr>
<td>New Guinea and Papua</td>
<td>T281</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Hampshire</td>
<td>V812</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Hebrides</td>
<td>X321</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Hebrides Islands</td>
<td>X621</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Jersey</td>
<td>V722</td>
<td>V822</td>
<td></td>
</tr>
<tr>
<td>New Mexico</td>
<td>V781</td>
<td>V881</td>
<td></td>
</tr>
<tr>
<td>New York</td>
<td>V721</td>
<td>V821</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td>9201</td>
<td>9302</td>
<td></td>
</tr>
<tr>
<td>Newfoundland</td>
<td>A401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newfoundland: Avalon Peninsula</td>
<td>A681</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Africa</td>
<td>P502</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North America—Special Strategic Maps</td>
<td>8201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina</td>
<td>V742</td>
<td>V842</td>
<td></td>
</tr>
<tr>
<td>North Dakota</td>
<td>V771</td>
<td>V871</td>
<td></td>
</tr>
<tr>
<td>Northeast Greenland</td>
<td>C521</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Europe</td>
<td>M515</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Honshu</td>
<td>L773</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Japan</td>
<td>L561</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Karafuto</td>
<td>L761</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Rhodesia</td>
<td>Y401</td>
<td>Y541</td>
<td>Z441</td>
</tr>
<tr>
<td>Northern South America</td>
<td>E401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northwest Europe</td>
<td>M503</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ogasawara-Gunto</td>
<td>W711</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio</td>
<td>V752</td>
<td>V852</td>
<td></td>
</tr>
<tr>
<td>Oklahoma</td>
<td>V783</td>
<td>V883</td>
<td></td>
</tr>
<tr>
<td>Oregon</td>
<td>V792</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacific—Special Strategic Maps</td>
<td>9101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Palau Islands</td>
<td>W752</td>
<td>W853</td>
<td>W854</td>
</tr>
<tr>
<td>Palestine</td>
<td>K631</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>V731</td>
<td>V831</td>
<td></td>
</tr>
<tr>
<td>Peru City Plans</td>
<td>J931</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippine Islands</td>
<td>S401</td>
<td>S901</td>
<td></td>
</tr>
<tr>
<td>Philippines</td>
<td>S501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippines Road Maps</td>
<td>5306</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td>M651</td>
<td>M651S</td>
<td></td>
</tr>
<tr>
<td>Portugal</td>
<td>M780</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Puerto Rico Road Map</td>
<td>E431</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Republic of Panama</td>
<td>E461</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhode Island</td>
<td>V715</td>
<td>V815</td>
<td></td>
</tr>
<tr>
<td>Ruanda—Urundi</td>
<td>Z621</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rwanda and Burundi</td>
<td>Z421</td>
<td>Z522</td>
<td></td>
</tr>
<tr>
<td>Ryukyu-Retto</td>
<td>L791</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sardinia City Plans</td>
<td>M992</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senegal</td>
<td>G621</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siberia</td>
<td>5203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sicily City Plans</td>
<td>M993</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sierra Leone</td>
<td>G442</td>
<td>G541</td>
<td></td>
</tr>
<tr>
<td>Solomon Islands</td>
<td>X611</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td>Z501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South American Air Strips</td>
<td>7301</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South American Transportation</td>
<td>T201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>V746</td>
<td>V846</td>
<td></td>
</tr>
<tr>
<td>South Dakota</td>
<td>V773</td>
<td>V873</td>
<td></td>
</tr>
<tr>
<td>South Japanese Islands</td>
<td>W511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeast Arabia</td>
<td>K461</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeast Asia Briefing Graphic</td>
<td>L307</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeast Asia Briefing Map</td>
<td>5213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeast Asia Road Maps</td>
<td>5308</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeast Greenland</td>
<td>C541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southeastern Borneo</td>
<td>T631</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Asia</td>
<td>5208</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Honshu</td>
<td>L775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Japan</td>
<td>L591</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Karafuto</td>
<td>L762</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Morocco</td>
<td>P632</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southwest Greenland</td>
<td>C531</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Southwest Iceland C861
Southwestern Asia K502
Spain M781 M782 M783 M784 M785 M786 M787
Spain and Portugal Road Maps M481
Spain City Plans M981
St. Christopher (or) St. Kitts E748
Straits of Gibraltar H582
Suez Canal P572
Sulu Archipelago S741
Sumatra T511
Surinam City Plans E991
Syria K421 K521
Taiwan (Formosa) L594
Taiwan (Formosa) Road Map L491
Tennessee V741 V841
Texas V782 V882
Tonga Islands X671 X871
Tongareva X772
Trinidad E742
Tripoli P661
Tripolitania City Plans P961
Truk Islands W851
Tunisia Communications P451
Turkey K511
United States V501 V502 8202 8205
United States Railroad Maps 8204
Uruguay City Plans H971
U.S. Strategic Maps V401
U.S.S.R. 1203
U.S.S.R.--Administrative Areas 5103
U.S.S.R. and Adjacent Areas 5104
U.S.S.R. and Adjacent Countries 1104
Venezuela City Plans E981
Vermont V713 V813
Virginia V734 V834
Viti Levu Island X751
Wake Island W822
Washington V791 V891
West Africa G501 G503 G504
West Virginia V754 V854
Western Borneo T732
Western Hemisphere--Strategic Planning Maps 1130
Western Iceland C761
Western Siberia N502 N571
Western South America J401
Western United States V502
Wisconsin V761
World 1101 1103 1104 1106 1107 1125
1140 1301 1404
World Climate Zones 1105
World Outline Maps--Area 1105 1106
1204
World Planning Maps 1102
World Road Maps 1304W
World Strategic Planning Maps 1130
Wyoming V774
Yasawa Group X752

G.S.G.S. (Geographical Section, General Staff, British War Office)

[all Series Numbers preceded by G.S.G.S.]
Atlantic Islands, Porto Santo and Desertas 4343
Azores 4122 4123 4124 4141 4321 4331
Bahrein Island 4305
Balearic Islands 4134 4373 4376
Belgium 4420
Belgium and N.E. France 4336
British Columbia 590
Buka and Bougainville 4344
Burma and Thailand 4218
Canary Islands 4120 4121 4132 4306
4307 4308 4309 4310 4342
Canary Islands City Plans 4333
Cape Verde Archipelago 4125
Cape Verde Islands 4110 4111 4112
4113 4114 4115 4116 4117 4118 4119
Caucasia and Neighboring Territories 4327
China 2400
China and Japan 4034
Corsica 4398
Corsica City Plans 4381
Crete 4160
Cyprus 3974 4242
Cyrennaica 4076
Dodecanese City Plans 4161 4168
East Central Asia 4222
East Indies 3860
East Indies, Timor & Islands 4271
Eastern China 3789
Egypt 4084 4085 4208
England and Wales 3957
Europe (Air) 4072
European Russia—Railways 4206
Faeroes 4139
Finland 4093
France 2738 4238 4249 4250
France and Belgium 4040
France City Plans 4234
French North Africa 4175
French West Africa 4149
Germany 4346 4414
Germany Road Maps 4478
Great Britain (Aeronautical) 4369
Holland 2541
Holland—Railways & Waterways 4183
Hong Kong 3961
Iceland 4186
Iceland (Air) 4140
India 4203
Ireland 4142
Italy 4164 4228 4229 4230
Italy and Neighboring Countries (Railways) 4176A
Italy City Plans 4380
Java and Madera 1981
Lampedusa and Linosa 4406
Libya 4236
Madagascar 4243
Madeira 4313
Malaya, Kedah and Perlis 4254
Malaya, Kelantan 4251
Malaya, Pahang 4253
Malaya, Perak 4255
Malaya (Road Map) 3910
Malaya, Trengganu 4252
Malta and Gozo 3859
Mediterranea Orientale 4281
Middle East 3919 4213
Morocco 4173
Morocco City Plans 4241
Murmansk 4313
Murmansk Area 4363
Murmansk Railway 4224
Near and Middle East 4108 | St. Kitts and Nevis 2942
New Guinea and Papua 4383 | Straits of Gibraltar 2920
Norway 4090 4246 4419 | Suez Canal 3753
Northwest Europe 4042 | Sumatra 4184
Palestine 4078 4079 | Sweden 4091 4092
Pantelleria 4162 | Syria 4194 4195
Portugal 4145 | Syria and Lebanon 4244
Portugal Road Map 4352 | Tripoli 3980
Samoa Islands 4300 | Tripolitania City Plans 4374
Sardinia City Plans 4378 | Tunisia 4225 4226 4227
Scotland 3958 | Tunisia City Plans 4274
Sicily City Plans 4379 | Tunisie Communications 4408
Southern Asia 4340 | Turkey 4193 4235 4292
Spain 4109 | U.S.S.R. & Adjacent Countries 3953
Spain & Portugal Railway Map 4170 | U.S.S.R. (Asia) 4219
St. Christopher (or) St. Kitts 2941 [all Series Numbers preceded by G.S.G.S.]

NEWS NOTES

Maps to be noted in Wilson Indexes

In response to a request from the Geography and Map Division, Special Libraries Association, all Wilson indexes [Library Literature, et al.] will now note those articles that contain a map or maps. Henceforth the present "ill" for illustration and "por" for portrait will be augmented to show maps when they appear.


New Library Acquisitions List

The Geography Library, University of Auckland, Auckland, New Zealand, has issued its No. 1 (July-September 1976) of a quarterly listing of maps newly added to the collection. The title is CARTE-QUART, and had five pages in the first issue.

courtesy of Lewis Armstrong

New organization of National Map Collection, Public Archives, Canada

The old Canadian and Foreign Sections have been dissolved and five new sections have been established: Early Canadian Cartography; Modern Cartography; Government Cartographical and Architectural Records; External and Internal Services; and Documentation Control.

Betty Kidd, Chief, NMC
ATLASES CATALOGED AT UCLA

by

Anna F. Blustein
Associate Librarian (Cataloger)
University Research Library
University of California, Los Angeles

1977 xvi, 312, 222 p. : chiefly col. maps ; 39 cm.
At head of title: Rand McNally.
English, French, German, and Spanish.
1. Atlases. I. Rand McNally and Company. $45.00

T48ac xx, 223 p., 123 leaves of col. plates : col. illus., col. maps ; 46 cm.
Legend sheet laid in.
1. Atlases, British. I. Bartholomew (John) and Son, ltd. II. Times Books, London.

1976 [viii], 170, 78 p. : chiefly col. maps ; 30 cm.

G Raymond, Parish, Pine & Plavnik.
1271 The State of Maryland historical atlas ; a review of events and forces that have influenced the development of the State. [Annapolis]
1973 60 p. illus., col. maps. 28 x 44 cm.
$6.00 Includes bibliographical references MARC 73-620104 MAP

G Atlas of Mexico / Stanley A. Arbingast ... [et al.]. - (2d ed.) -
A881 Austin : Bureau of Business Research, University of Texas at Austin, c1975.
1975 164, (1)p. : illus. (some col.), maps (some col.) ; 28 x 37 cm.
Bibliography: p. 163-(164)
ISBN 0-87755-187-1 : MARC 75-11269 MAP $15.00
The San Diego State University
Social Science Research Laboratory (SSRL)

The Social Science Research Laboratory (SSRL) promotes instruction, research, and interdisciplinary exchanges and cooperation concerning research and instruction in the social sciences, and develops capabilities to facilitate these endeavors. SSRL is located in the College of Arts and Letters, and is governed by an Executive Committee comprised of the director and departmental representatives. Combining resources in Economics, Geography, political Science, and Sociology, SSRL transforms departmental resources and capabilities into collective resources in order to benefit the social science community. SSRL is organized in four sections: 1) Computational Section; 2) Data Resource Section; 3) Map Section; and 4) Survey Research Section.

The Computational Section provides consultation and instructional support in a variety of problem areas concerning data processing and computer analysis of quantitative data. These areas include guidance and help in finding, writing, and de-bugging computer programs, initial job setups, data reduction, archiving, and retrieval, and more limited consultation concerning research design and execution.

The Data Resource and Map Sections each provide archived research and instructional materials and consultation and instructional support in how to use the materials. The Map Section includes one of the largest map collections within a university, and promotes the use of cartographic products as information sources.

The Data Resource Section includes extensive research holdings that emphasize professional journals, technical research methods publications, fugitive papers, and particular data series that are published but not generally available in machine readable form. Materials in each Section are available to students and faculty for research and instructional purposes.

The Survey Research Section provides consultation on the planning, design, execution, and analysis of social science surveys in individual, group or organizational contexts. The Section offers both complete bundled survey services and particular survey support services, including work on sample construction and design, questionnaire construction and instrumentation, field work, and other services on a contractual basis.

SSRL meets its instructional and research missions through programs and projects executed in each of its Sections. Each Section is charged with specific instructional and research tasks, and each Section executes programs and projects in pursuit of these tasks. The programs include: Demonstration-Workshop Program; Information Exchange and Coordination Program (Clearinghouse); San Diego Area Program; Internal Training and Development Program; Research Associate Program; and Occasional Papers Series.

SSRL priorities emphasize maximizing the number of faculty and students served by the Laboratory, although special efforts are made to help users meet contractual deadlines. Initial contact with SSRL should be through Section Heads or the director. SSRL priorities require advance planning by faculty working in conjunction with appropriate SSRL personnel. Problems
in relations with SSRL should be discussed with the director. SSRL capabilities and resources include:

- **Current Professional Journals in the Social Sciences**
- **Numerous Published Data Series, including Regional Census Materials**
- **Codebooks for Machine Readable Data available locally and SUDC through SSRL**
- **Information about using computing services at SDSU, SUDC, and Northridge facilities**
- **More than 100,000 map sheets, including U.S. Geological Survey and DMA depository items**
- **Consultation on computer programming on a limited basis**
- **Consultation on computer utilization**
- **Access to (4) Keypunches, (8) Computer Terminals, (30) Calculators**
- **Access through job submittal (RJE) to the Computing Facilities**
- **Consultation on finding and using maps**
- **Consultation on finding and using printed data**
- **Consultation on using other SDSU computing facilities**
- **Consultation on survey design and execution**
- **Consultation on costing-out services through SSRL**

SSRL services are provided within existing capabilities at no cost to unfunded research and instructional programs and projects in which students and faculty are involved. All funded projects, however, must reimburse SSRL directly for services and resources, and costing must be agreed in advance. SSRL staff are available to provide consultation on budgeting in this regard. Services are provided on a first come, first served basis except where planned deadlines are involved. Faculty are particularly encouraged to bring funded projects to SSRL. Projects that require extensive support should be discussed with the director with enough time to allow careful planning prior to requests for SSRL services. For more information write:

**Richard Hofstetter, Director**  
Social Science Research Laboratory  
San Diego State University  
San Diego, California 92182

or call:  
**Carole Outhouse**  
Data Resource Section 286-5845

or

**Doug Coe**  
Computational Section 286-5845

or

**Muriel Strickland**  
Map Section 286-5845
ADDENDUM TO TREASURE MAP LIST

by

Donald A. Wise
Geography and Map Division
The Library of Congress

A Descriptive List of Treasure Maps and Charts in the Library of Congress was published in 1973. This edition contained a total of 155 items identified as treasure maps and atlases. Among the professional literature there seems to be a paucity of articles on treasure maps and atlases. Each year the growing public interest in this topic results in the publication of additional cartographic materials specializing in shipwrecks, lost mines, and hidden treasures. The following items have been identified and added to the list of treasure maps in the Library of Congress:


Brief descriptions of 83 historic sites are identified and keyed to map.

2. Bates, George T. A few of the shipwrecks on Cape Cod. Scale ca. 1:270,000. 52 x 72cm. Blueprint. (G3762.C35P57 1975.B3)

Includes text "Historic Cape Cod" and "Alphabetical arrangement of the wrecks".

Available from Historic Maps Ltd., P.O. Box 3488, South Postal Station, Halifax, Nova Scotia B3J 3J2. $3.50

3. A map of Hemloc Island Nova Scotia. No scale. 30 x 33cm. Blueprint. (G3422.H4E75 1975.B3)

Shows location of Boot Hill, supposed site of a treasure hidden by the pirate Captain Kidd.

Available from Historic Maps Ltd. (no. 2) $1.75


Shows the location of "The money pit", "stone triangle", and "smuggler's cove".

Available from Historic Maps Ltd. (no. 2) $1.75

5. A map showing the area in the vicinity of the wreck of the French-man-of-war Le Chameau: a 60 gun ship from France for Quebec via Louisbourg - lost with all hands the night of August 25, 1725. No scale. 30 x 33cm. Blueprint. (G3422.C29P51 1725.B3)

Shipwreck site "Le Chameau". Includes text taken from "N.S.H.S. Collections".

Available from Historic Maps Ltd. (no. 2) $1.75
6. Nova Scotia "treasures". Scale ca. 1:2,000,000. 30 x 32cm.  
   (G342T.E75 1975.B3)  
   Includes descriptive index, which locates 23 shipwreck and treasure sites.  
   Available from Historic Maps Ltd. (no. 2) $1.75

   (G3422.02E75 1975.B31)  
   Shows "money pit" and "Smuggler's Cove".  
   Available from Historic Maps Ltd. (no. 2) $1.75

8. Pirates and piracy in Nova Scotia waters. Scale ca. 1:100,000.  
   70 x 57cm. Blue line print. (G3421.S1 1975.B3)  
   Descriptions of pirate activities.  
   Available from Historic Maps Ltd. (no. 2) $3.50

9. Sable Island, the graveyard of the Atlantic. Scale ca. 1:100,000.  
   32 x 49cm. (G3422.S2P57 1947.B3)  
   Some ships shown pictorially with date, name, and type of ship indicated.  
   Includes historical text and list of wrecks dating from 1633 to 1947.  
   Available from Historic Maps Ltd. (no. 2) $1.75

10. Ships wrecked on Sable Island the graveyard of the Atlantic. Scale ca. 1:63,000.  
    55 x 69cm. Blueprint. (G3422.S2P57 1947.B31)  
    Includes text and chronology of wrecks dated 1633 to 1947.  
    Available from Historic Maps Ltd. (no. 2) $3.50

    No scale. 52 x 69cm. Blueprint. (G3421.P57 1886.B3)  
    Includes chronology of 18 ships which disappeared from 1777 to 1886.  
    Available from Historic Maps Ltd. (no. 2) $3.50

12. Some ships of war lost off the coast of Nova Scotia. No scale.  
    31 x 48cm. (G3421.P57 1822.B3)  
    Sites of 22 shipwrecks dating from 1725 to 1822 are shown.  
    Available from Historic Maps Ltd. (no. 2) $1.75

13. S.O.S.-Shipwreck, more early recorded wrecks around the coast of Nova Scotia, 1831-1861. No. 2. No scale. 51 x 69cm. Blue line print.  
    (G3421.P57 1861.B3)  
    Includes chronological list of 159 shipwrecks with descriptions.  
    Available from Historic Maps Ltd. (no. 2) $3.50

14. S.O.S.-Shipwreck, some early recorded wrecks around the coast of Nova Scotia, 1583 to 1873. No. 1. No scale. 52 x 69cm. Blue line print.  
    (G3421.P57 1873.B3)  
    Includes chronological list of 270 shipwrecks with descriptions.  
    Available from Historic Maps Ltd. (no. 2) $3.50
15. S.O.S.-Shipwreck, still more early recorded wrecks around the coast of Nova Scotia, 1861-1887. No. 3. No scale. 56 x 72cm. Blue line print. (G3421.P57 1887.B3)

Includes chronological list of 183 shipwrecks with descriptions.
Available from Historic Maps Ltd. (no. 2) $3.50


descriptions of 35 treasure sites key to the map.
Available from Carl Bordner, 2736 Jamaica Street, Apt. 3, Sarasota, Florida 33581. $1.00


Includes "Roll call of major shipwrecks", and text.


Map shows 100 hidden treasure sites.

19. Drake, (Walter) and Sons. Treasure map of the United States. 1:5,000,000. ©1957. 66 x 107cm. (G3701.E75 1957.D7)

445 treasure sites are briefly described.


Map shows locations of 11 shipwrecks, one sunken plane, and general location of three centuries of wreckage.
Available from Seahawk Press, 6840 S.W. 92 Street, Miami, Florida 33156.


Shows wreckage at two places: Capt. Tom's Wreck and M/V Benwood sunk in 1942.
Available from Seahawk Press, 6840 S.W. 92nd Street, Miami, Florida 33156.


This atlas represents the type of cartographic information needed by pirates operating in the Pacific Ocean during the 17th Century.
Shows 24 treasure sites, 16 abandoned towns, 26 shipwreck sites, etc.

24. Hayward, Janet R. Colorado ghost towns, lost treasures, forts and gem sites. Scale ca. 1:3,250,000. 19 x 26cm. ©1972. (G4311.E75 1972.H3)
Map accompanied by descriptive index to 109 sites.

Shipwrecks are located; historical notes appear on all map sheets.

26. Historical Documents Company. Treasure map, approximate locations of many sunken and buried treasures according to history, legend, and research. No scale. Col. 36 x 31cm. Pictorial. (G3321.E75 1965.H5)
Shows sunken and buried treasures along the Atlantic coast from Newfoundland to northern South America including the Caribbean area.

Lost Arch Mine is shown on page 9. $2.00
Available from Cy Johnson & Son, Box 288, Susanville, California 96130.

28. ______. Gold Diggers Atlas. 64p. 23cm.
Locates a number of treasure sites.
Available from Cy Johnson & Son (no. 27) $2.50

Shows locations of 28 treasure sites.
Available from Cy Johnson & Son (no. 27) $2.00

Locations of 23 lost mines are shown.
Available from Cy Johnson & Son (no. 27) $2.00

Descriptive comments clutter the face of this map.

32. Malin, Richard O. Puget Sound and San Juan Islands. 2nd Ed. Scale ca. 1:150,000. ©1975. Col. 122 x 60cm. (G4282.P8 1975.M3)
A great number of shipwrecks are shown.
33. National Geographic Society. ["Atocha" site]. 1:15,625,000. ©1976. Col. 8 x 7cm.
   Shows two shipwreck sites: Atocha and Margarita.

   Includes location and identification of wrecks.

   Col. 9 x 17cm. (G3654.S23 1967.N3)
   Includes list of shipwrecks.

   Identifies 19 Japanese shipwrecks and locates 14 other unidentified wrecks.

   31 x 46cm. Pictorial. (G3701.E75 1971.R31)
   52 treasure sites are briefly described and keyed to the map.

38. Shea, Phillip D. Brier Island, Fundy graveyard: Shipwrecks since 1797-.
   Scale ca. 1:40,000. 55 x 43cm. ©1970. Pictorial. (G3422.B7P57 1970.S5)
   61 wrecks are listed along with ship name and year lost.

39. Sinclair Oil Company. Herewith is presented a chart of treasure and other matters of interest in the dominions, commonwealths, and certain former Southern Colonies ... now all sovereign states in free America.
   No scale. Col. 25 x 33cm. Pictorial. (G3861.E75 195-.H4)
   11 treasure sites are briefly described and keyed to map.

   Pictorial. (G4032.P2 1968.S5)
   Wreck of the Nicaragua shown along with shrimper wreck. Locations of 7 reported treasure sites.

41. Stewart, William Herman. Map of Arizona's lost gold mines and ghost towns with notes on prospecting for gold, silver, and other treasures. Scale ca. 1:2,000,000. ©1974. 45 x 38cm. Pictorial. (G4331.E75 1974.S7)
   Includes descriptive notes and index to lost mines. $2.00
   Available from William H. Stewart, 3528 Camino Real, Sarasota, Florida 33579.
42. Map of Nevada's lost gold mines and ghost towns, with notes on prospecting for gold, silver, and other treasure. Scale ca. 1:2,200,000.
   ©1974. 43 x 38cm. Pictorial. (G4351.E75 1974.S7)

22 legendary lost mines are listed.
Available from William H. Stewart (no. 41) $2.00

43. Map of New Mexico's lost gold mines and ghost towns, with notes on prospecting for gold, silver, and other treasure. Scale ca. 1:2,000,000.
   ©1974. 43 x 38cm. Pictorial (G4321.E75 1974.S7)

Includes descriptive notes.
Available from William H. Stewart (no. 41) $2.00

44. Treasure hunter's tourist map of fishing, boating, skin diving on the Florida Keys, Marathon and Key West. Scale ca. 1:165,000.
   ©1972. 47 x 58cm. Pictorial. (G3932.F5E75 1972.S8)
Locates 35 wrecks including 21 Spanish galleons.
Available from William H. Stewart (no. 41) $2.00

   ©1969. 57 x 38cm. (G3762.C3SP57 1969.S8)
Index to shipwreck locations.

   31p. 28cm. (G1107.G7T4 1974)
361 wreck sites are located on 5 maps.
Available from Specialty Products, 2233 South 22nd Street, LaCrosse, Wisconsin 54601.

   28cm. (G1201.E75T4 1974)
Includes more than 5,000 treasure sites.
Available from Specialty Products (no. 46)

Wreck of the Nicaragua shown.

49. Viceroy, Monte R. Big Bear Lake valley. Scale ca. 1:40,000. ©1946.
   33 x 66cm. (G4362.B5E635 1946.V5)
Two legendary lost gold mines are shown.

50. Young, Art. Old gold mines, Dahlonega, Georgia. 1:36,000. ©1971.
   49 x 43cm. (G3924.D15H2 1971.Y8)
63 gold mine sites are shown.

This addendum of treasure maps and atlases indicates that public interest
and the market for sales of these materials continues to expand. Furthermore, treasure map cartography has developed into some distinctive formats and designs.

In conclusion, treasure maps have emerged as a specialized form of cartography and as a unique collector's item.


"Possible Sources of Wreck Information", 1977 edition, has just been released by the U.S. National Ocean Survey, Rockville, Maryland 20852. This four-page leaflet describes information on this subject available from the Library of Congress, National Archives & Records Service, Internal Revenue Service (concerning tax laws regarding wealth acquired by salvage from sunken or buried treasure), various collections that include information on Great Lakes wrecks, and a list of 29 published works available from commercial sources. All agencies are listed by address, and commercial sources and prices are given where available. Of possible interest to West Coast librarians are the following:


Gibbs, J. A., Jr. "Pacific Graveyard" and "Shipwrecks of the Pacific Coast".
A complete account of all wrecks, 50 tons and over, along the Pacific coast of the United States. $5.50


Rumsey, M. "Shipwreck Bay". Morrow Publications, 4163 Market Street, San Diego, CA 92102. $3.95

The Editor

NEW PRICE LIST

The U.S. Geological Survey has revised some of its prices for remote sensing data, effective January 1, 1977.

The former prices were established August 1, 1975, so it is timely that the new price schedule is published in these pages for your attention.

The Editor
# Price List

**STANDARD REMOTE SENSING DATA**  
**U. S. DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

**JANUARY 1, 1977**

## Satellite Data

<table>
<thead>
<tr>
<th>Image Size</th>
<th>Nominal Scale</th>
<th>Product Format</th>
<th>Black and White</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>56.8 mm</td>
<td>10.2 in.</td>
<td>Film Positive</td>
<td>$8.00 11</td>
<td></td>
</tr>
<tr>
<td>55.9 mm</td>
<td>10.2 in.</td>
<td>Film Negative</td>
<td>10.00 61</td>
<td></td>
</tr>
<tr>
<td>18.6 cm</td>
<td>7.3 in.</td>
<td>Paper</td>
<td>8.00 23</td>
<td></td>
</tr>
<tr>
<td>18.5 cm</td>
<td>7.3 in.</td>
<td>Film Positive</td>
<td>10.00 13</td>
<td></td>
</tr>
<tr>
<td>18.0 cm</td>
<td>7.1 in.</td>
<td>Film Negative</td>
<td>10.00 63</td>
<td></td>
</tr>
<tr>
<td>31.7 cm</td>
<td>12.5 in.</td>
<td>Paper</td>
<td>12.00 24</td>
<td></td>
</tr>
<tr>
<td>24.7 cm</td>
<td>9.8 in.</td>
<td>Paper</td>
<td>20.00 26</td>
<td></td>
</tr>
</tbody>
</table>

**Color Composite Generation**

NOTE: 1. Portrayed in false color (infrared) and not true color.  
2. Cost of product from composite must be added to total cost.

## Computer Compatible Tapes (CCT)

<table>
<thead>
<tr>
<th>Tracks</th>
<th>B.P.</th>
<th>Format</th>
<th>Set Price</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>800</td>
<td>Tape Set</td>
<td>$200.00</td>
<td>62</td>
</tr>
<tr>
<td>9</td>
<td>1600</td>
<td>Tape Set</td>
<td>200.00</td>
<td>84</td>
</tr>
</tbody>
</table>

## Manned Spacecraft Data

### Skylab S190A

<table>
<thead>
<tr>
<th>Image Size</th>
<th>Nominal Scale</th>
<th>Product Format</th>
<th>Black and White</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>56.8 mm</td>
<td>10.2 in.</td>
<td>Film Positive</td>
<td>$8.00 11</td>
<td></td>
</tr>
<tr>
<td>55.9 mm</td>
<td>10.2 in.</td>
<td>Film Negative</td>
<td>10.00 61</td>
<td></td>
</tr>
<tr>
<td>16.3 cm</td>
<td>6.4 in.</td>
<td>Paper</td>
<td>8.00 23</td>
<td></td>
</tr>
<tr>
<td>32.7 cm</td>
<td>12.8 in.</td>
<td>Paper</td>
<td>12.00 24</td>
<td></td>
</tr>
<tr>
<td>60.0 cm</td>
<td>23.6 in.</td>
<td>Paper</td>
<td>20.00 26</td>
<td></td>
</tr>
</tbody>
</table>

### Skylab S190B

<table>
<thead>
<tr>
<th>Image Size</th>
<th>Nominal Scale</th>
<th>Product Format</th>
<th>Black and White</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4 cm</td>
<td>4.5 in.</td>
<td>Paper</td>
<td>$8.00 22</td>
<td></td>
</tr>
<tr>
<td>15.4 cm</td>
<td>6.1 in.</td>
<td>Film Positive</td>
<td>8.00 12</td>
<td></td>
</tr>
<tr>
<td>11.4 cm</td>
<td>4.5 in.</td>
<td>Film Negative</td>
<td>10.00 22</td>
<td></td>
</tr>
<tr>
<td>25.0 cm</td>
<td>9.8 in.</td>
<td>Paper</td>
<td>8.00 23</td>
<td></td>
</tr>
<tr>
<td>43.4 cm</td>
<td>17.1 in.</td>
<td>Paper</td>
<td>13.00 24</td>
<td></td>
</tr>
<tr>
<td>86.0 cm</td>
<td>34.2 in.</td>
<td>Paper</td>
<td>20.00 26</td>
<td></td>
</tr>
</tbody>
</table>

### Apollo/Gemini

<table>
<thead>
<tr>
<th>Image Size</th>
<th>Nominal Scale</th>
<th>Product Format</th>
<th>Black and White</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.8 cm</td>
<td>17.2 in.</td>
<td>Variable</td>
<td>$8.00 11</td>
<td></td>
</tr>
<tr>
<td>50.8 cm</td>
<td>17.2 in.</td>
<td>Film Positive</td>
<td>10.00 61</td>
<td></td>
</tr>
<tr>
<td>27.6 cm</td>
<td>10.9 in.</td>
<td>Paper</td>
<td>8.00 23</td>
<td></td>
</tr>
<tr>
<td>45.5 cm</td>
<td>17.9 in.</td>
<td>Paper</td>
<td>12.00 24</td>
<td></td>
</tr>
</tbody>
</table>

### Color

<table>
<thead>
<tr>
<th>Unit Price</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
<tr>
<td>$10.00</td>
<td>51</td>
</tr>
<tr>
<td>$12.00</td>
<td>62</td>
</tr>
<tr>
<td>$20.00</td>
<td>84</td>
</tr>
</tbody>
</table>

1
## AERIAL MAPPING

<table>
<thead>
<tr>
<th>IMAGE SIZE</th>
<th>PRODUCT FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.9cm</td>
<td>Paper</td>
<td>$13.00 23</td>
<td>$16.00 63</td>
</tr>
<tr>
<td>22.8cm</td>
<td>Film Positive</td>
<td>$11.00 22</td>
<td>$15.00 63</td>
</tr>
<tr>
<td>22.7cm</td>
<td>Film Negative</td>
<td>$10.00 24</td>
<td>$25.00 84</td>
</tr>
<tr>
<td>45.7cm</td>
<td>Paper</td>
<td>$5.00 35</td>
<td>$30.00 65</td>
</tr>
<tr>
<td>68.6cm</td>
<td>Paper</td>
<td>$5.00 36</td>
<td>$50.00 66</td>
</tr>
<tr>
<td>91.4cm</td>
<td>Paper</td>
<td>$5.00 36</td>
<td>$50.00 66</td>
</tr>
</tbody>
</table>

## PHOTO INDEXES

<table>
<thead>
<tr>
<th>IMAGE SIZE</th>
<th>PRODUCT FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4x30.5cm (10x12 in.)</td>
<td>Paper</td>
<td>$5.00 36</td>
<td>$10.00 51</td>
</tr>
<tr>
<td>OTHER</td>
<td>Paper</td>
<td>$5.00 37</td>
<td></td>
</tr>
</tbody>
</table>

## NASA RESEARCH

<table>
<thead>
<tr>
<th>IMAGE SIZE</th>
<th>PRODUCT FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>53.3cm</td>
<td>Film Positive</td>
<td>$3.00 11</td>
<td>$10.00 51</td>
</tr>
<tr>
<td>50.8cm</td>
<td>Film Negative</td>
<td>$4.00 21</td>
<td>$7.00 62</td>
</tr>
<tr>
<td>11.4cm</td>
<td>Film Positive</td>
<td>$3.00 21</td>
<td>$12.00 52</td>
</tr>
<tr>
<td>11.4cm</td>
<td>Film Negative</td>
<td>$5.00 21</td>
<td>$7.00 62</td>
</tr>
<tr>
<td>22.9cm</td>
<td>Paper</td>
<td>$3.00 23</td>
<td>$15.00 53</td>
</tr>
<tr>
<td>22.9cm</td>
<td>Film Positive</td>
<td>$5.00 23</td>
<td>$20.00 69</td>
</tr>
<tr>
<td>22.9cm</td>
<td>Film Negative</td>
<td>$6.00 23</td>
<td>$30.00 56</td>
</tr>
<tr>
<td>27.9x45.7cm (9x18 in.)</td>
<td>Paper</td>
<td>$3.00 23</td>
<td>$25.00 64</td>
</tr>
<tr>
<td>27.9x45.7cm (9x18 in.)</td>
<td>Film Positive</td>
<td>$12.00 54</td>
<td>$30.00 65</td>
</tr>
<tr>
<td>45.7cm</td>
<td>Paper</td>
<td>$15.00 54</td>
<td></td>
</tr>
<tr>
<td>68.6cm</td>
<td>Paper</td>
<td>$50.00 66</td>
<td></td>
</tr>
</tbody>
</table>

## MISCELLANEOUS

### MICROFILM

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>16mm (35.5x100 ft.)</td>
<td>$15.00 72</td>
<td>$40.00 73</td>
</tr>
<tr>
<td>35mm (35.5x100 ft.)</td>
<td>$20.00 72</td>
<td>$45.00 73</td>
</tr>
</tbody>
</table>

### KELSH PLATES

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Prints on Glass Specify thickness (0.25 or 0.06 inch) and method of printing through film or through film base.</td>
<td>$12.00 70</td>
<td></td>
</tr>
</tbody>
</table>

### TRANSFORMED PRINTS

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>From convergent or transverse low oblique photographs</td>
<td>$8.00 71</td>
<td></td>
</tr>
</tbody>
</table>

### VIEWING SLIDES

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>BLACK and WHITE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>35mm mounted duplicate of available printing master</td>
<td>$1.00 71</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: 35mm original will require additional $3.00, not to include cost of mounted duplicate.

Complete roll reproduction delivered in roll format carries a 20% reduction in frame pricing. Custom processing of non-standard products is available at three times the standard product price. If a non-standard size is desired, the cost is three times the next larger standard product price. Priority service with guaranteed five working days shipment is offered for standard products only, at three times the standard product price. Extra care should be taken to ensure that monies and related order forms are forwarded to the same facility.
NEW MAPPING OF WESTERN NORTH AMERICA

CONTRIBUTIONS BY:  MB = Mary Blakeley, Head Map Librarian, University Library, University of Arizona, Tucson, Arizona
                        AB = Anna Blustein, Atlas Cataloger, University Research Library, University of California, Los Angeles, CA
                        EP = The Editor (from material in hand & pub. blurbs)

ARIZONA MB

Atlas of Santa Cruz County. Prepared by the Arizona Dept. of Transportation, Highways Division in cooperation with the U.S. Dept. of Transportation, Federal Highway Administration. Phoenix, Ariz., Dept. of Transportation, 1975 — Scale of maps 1:126,720 and 1:24,000.


General highway map Coconino County, Arizona. Prepared by the Arizona Dept. of Transportation, Highways Division, Photogrammetry and Mapping Services in cooperation with the U.S. Federal Highway Administration. Phoenix, 1975. Scale ca. 1:250,000.

Arizona. State Climatologist.

Available from State Climatologist, Laboratory of Climatology, Arizona State University, Tempe, AZ 85281. [$1.00 per sheet or $3.00 per set of 5 maps]

Climatic regions of Arizona. Prepared under the direction of the State Climatologist, the Laboratory of Climatology, Arizona State University. Phoenix, Ariz., Arizona Resources Information System, 1976. Scale ca. 1:3M.

Available from State Climatologist, Laboratory of Climatology, Arizona State University, Tempe, AZ 85281. [$2.00]

Druitt, Charles E

Available from Arizona Oil and Gas Commission, 8686 North Central Avenue, Suite 106, Phoenix, AZ 85020.

Phoenix Mapping.

Available from Arizona Information Service, P.O. Box 71, Phoenix, AZ 85001.

Scale 1:500,000.

CALIFORNIA

Marine Exchange of the San Francisco Bay Region.

This 97-page atlas is the only regional maritime and world trade reference work for this area. It presents up-to-date detailed reports on all the shipping facilities in the region, with indexed maps for each, including the Ports of San Francisco, Oakland, Alameda, Richmond, Redwood City, Stockton, Sacramento, Benicia, and the San Pablo-Suisun Bays complex. It also highlights government and commercial shipping and world trade services, details ship anchorages, lists ocean routes, and has a cross-indexed shipowners and agencies directory.

Available at special library rate of $1.50 net, including post and handling, from Marine Exchange, 303 World Trade Center, San Francisco, CA 94111, or call (415) 982-7788.

Robinson, John W

Western Economic Research Co.
ZIP Code Maps of California: Northern California, 24 counties; San Francisco Bay Area, 13 counties; Central California, 11 counties; Southern California, except L.A. 5-county & San Diego; Los Angeles 5-county area; San Diego County.

All maps are 30"x 42", except San Diego which is 26"x 34". All six maps are available as paper prints [at $8.00 each] or as Mylar overlays [at $15.00 ea.]. Prices include delivery in U.S., California orders add tax.
Western Economic Research Co., 13437 Ventura Blvd., Sherman Oaks, CA 91423 or phone (213) 981-9762.
Winnett, Thomas.  
88 p., [2] leaves of plates : ill. (some col.) maps (1 fold col. in pocket)  
16 cm. (High Sierra hiking guide ; no. 15)  
On cover: Mono craters: eastern Yosemite and the June Lake area.  
1. Mono Co., Calif.-Description and travel-Guide-books. 2. Hiking-  
California-Mono Co. 3. Trails-Mono Co., Calif. I. Title. MARC 72-89916  

NEW MEXICO  

Sherman, James E.  
Ghost towns and mining camps of New Mexico [by] James E. and Barbara H.  
Sherman. Maps by Jim Cooper. [1st ed]. Norman, University of Oklahoma  
Press [1975]  
x, 270 p. illus. 29 cm. Bibliography : p. 259-261. MARC 72-9525  
1. Cities and towns, Ruined, extinct, etc.-New Mexico. 2. New Mexico-  
History. I. Sherman, Barbara H., joint author. II. Title.  

ARIZONA, COLORADO, IDAHO, MONTANA, NEW MEXICO, NORTH DAKOTA, OREGON, SOUTH  
DAKOTA, UTAH, WYOMING, AND EASTERN STATES.  

The U.S. Bureau of Land Management, Office of Special Mapping, Denver,  
Colorado, produces on a quarterly basis [latest indexes are dated Jan. 1,  
1977] Intermediate Scale Map Index[es] for each of the above States.  

Each index indicates the quad name and number, and the date of edition,  
for Surface Management maps (which show patented (private) lands, Indian  
lands, known state-owned lands and Federally-owned lands; the Surface-  
Minerals Management edition has the extent of Federally-owned mineral  
rights overprinted on the Surface edition. Scale of the maps are at  
1:126,720 and 1:100,000.  

Indexes indicate how to make map selection, state prices, and give the  
addresses of BLM offices within the state.  

Indexes available from: Bureau of Land Management ATTN: D-150  
Denver Service Center  
Denver Federal Center, Building 50  
DENVER, CO 80225
MAP WORKSHOP TO BE OFFERED

The special workshop "Maps and the Media Center" will be offered again this summer by the Dept. of Library Science, Southern Oregon State College. The two week, 2-credit-hour course will run from 8am to 10am each day June 20-July 1, 1977. For school librarians, media specialists, teachers, geographers, and anyone interested in maps, topics will include sources of free and inexpensive maps, evaluation, cataloging/indexing, circulation/use, and the literature/reference sources. Types of maps will include historic, topographic, political, economic, recreation, navigation, aerial photographs, satellite, globes, atlases, and wall maps. Credit via Library Science 407(g), or Geography 407(g) can be applied to graduate or undergraduate programs.

For information: Harold Otness, Technical Services Librarian, Southern Oregon State College Library, Ashland, Oregon 97520.

Other workshops to be offered include:

Security in Media Centers. Library Science 407(G). June 13-17. 9:00-1:00

Government Documents for the School Teacher or Media Specialist. Library Science or Social Science 407(G). June 20-July 1. 1:00-3:00

Selection and Classification of Non-Book Materials. Library Science 487(G) July 5-15. 1:00-4:00

SPECIAL LIBRARIES ASSOCIATION, GEOGRAPHY & MAP DIVISION, CONFERENCE PROGRAM 1977, NEW YORK HILTON, NEW YORK CITY.

Mon. June 6

1-3PM Business Meeting

3-3:30 Dr. Walter Ristow, Chief, Geography & Map Division, Library of Congress: "Heirs of Eratosthenes: 40 years of Map Librarianship"

3:30-5 Professional Papers, Session I

William Easton, Illinois State University, "War Games and Maps"

Charles Seavey, University of Northern Iowa, "Maps as Documents/ Documents as Maps"

Charles Taylor, National Archives & Records Service, "So You Want to Microfilm Maps?"

Frank Swinnerton, Chief, National Cartographic Information Center, "Maps & Related Cartographic Products available from U.S.G.S."

8PM OPEN HOUSE at residence of Richard Eades Harrison (Div. Mem. only)

Tues. June 7

10:30-12 Professional Papers, Session II

Barbara Berthelsen, Cornell University, "The Sparks Maps at Cornell"

Mary Severson, Rand McNally & Co., "Map Librarianship in Private Industry: an operating example"

Roman Draziowsky, American Geographical Society, "Status Report"

12-2 Book & Author Lunch (co-sponsored with Publishing Div.): Isaac Asimov

3-4 Professional Papers, Session III

Jean M. Ray, Southern Illinois University, "A Map Librarian's Quest for European Information Sources"

Graham Lea & James Shearer, Geosystems, "Computerized Indexing of the Institute of Geological Sciences (UK), Geological Map Coll."

Defense Mapping Agency speaker: "DMA's Map Depository Program"

4-5 "The Antiquarian Map Field: a trinity here, too"

Dealer & Collector (to be announced)

Librarian: Alexander O. Vietor, Yale University

Wed. June 8

2-3PM Henry Hope Reed, Curator, Central Park, "Central Park" (in the park)

Thu. June 9

FIELD TRIP: George Cary, Rutgers Univ; "Ethnic Neighborhoods/Manhattan"