

THIS ISSUE CONTAINS A **Cumulative Index** TO **Vol. 1-6 (p.56)**

VOL. 6, NO. 3

JUNE 1975

information **Bulletin**



WESTERN ASSOCIATION OF MAP LIBRARIES

“. . . to encourage high standards in every phase of organization
and administration of map libraries . . .”

Information Bulletin

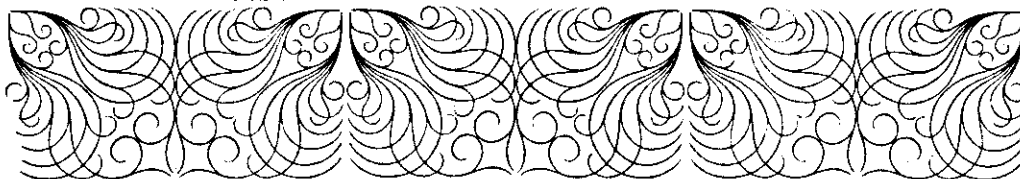
VOL. 6. NO. 3

JUNE 1975

Western Association of Map Libraries

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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:

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

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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 Bibliotecologia*] (Argentina).



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

Tentative Program

FALL MEETING - WESTERN ASSOCIATION OF MAP LIBRARIES

The Commons - California State University, Fullerton
October 24 & 25, 1975

Opening 9 a.m. Friday, closing noon Saturday

Theme: *HISTORICAL MAPS*

"Welcome" - Mr. Ernest W. Toy, Jr., Library Director, California State University, Fullerton.

"Carto-Bibliography" - Prof. Coolie Verner, University of British Columbia.

"Preservation of Maps" - Mr. Richard Engeman, Photo and Map Librarian, Oregon Historical Society.

"The Royal Engineers' Mapping of British Columbia" - Ms. Francis Woodward, Map Librarian, University of British Columbia.

"Landmark Maps" - Prof. Norman J. W. Thrower, University of California, Los Angeles.

"A Sheet Catalog" - Roy V. Boswell, Collection for the History of Cartography, California State University, Fullerton.

Exhibit of cartographic reference books.

- - -

Friday, lunch will be available in The Commons, on the second floor, the same floor as the meeting room.

Friday, following the close of the afternoon session, there will be a no host cocktails and dinner at the La Paz Restaurant which is ten minutes from the University. This is a Mexican restaurant in an early California setting, famous for its margaritas.

The Collection for the History of Cartography, a special collection of the University Library, California State University, Fullerton, will have an exhibition, on the ground floor of the Library, sponsored by the Patrons of the Library, of maps of the American Revolutionary Era. The Library is adjacent to The Commons.

Disneyland and Knott's Berry Farm are a few minutes drive from the University.

EDITOR'S NOTE: Host and coordinator of the Fullerton meeting is
Roy V. Boswell, P.O. Box 278, Gilroy, CA 95020.

Minutes

4 Western Association of Map Libraries/Association of Canadian Map Libraries
Meeting, May 8, 9 and 10, 1975
University of British Columbia, Vancouver

The meeting was called to order at 9:20 am on May 8 by Frances Woodward, ACML President and WAML member. Ms. Woodward welcomed the group on behalf of the UBC Library and School of Librarianship. She announced that most of the papers presented would be published either in the ACML Bulletin or in the WAML Information Bulletin.

The first speaker was Dr. Coolie Verner of the University of British Columbia. Dr. Verner delivered a paper on John Thornton, an important although somewhat neglected 17th Century English chart maker. Don Pearson, Research Officer of the British Columbia Surveys & Mapping Branch, spoke on the availability of mapping of B.C. by the federal and provincial governments.

The afternoon program included a talk by R.M. Sandilands of the Canadian Hydrographic Service. He spoke on the history of the Survey and the methods it employs to chart the waters off Canada. He showed examples and discussed the availability of the many items produced by the Survey. A paper entitled, "Crater Hunting, a Cartographic Game for any Number of Players," was presented by Lee Hubbard, Map Librarian, University of Washington. Mr. Hubbard discussed the evidence which indicates that some of the earth's physical features, such as circular basins, are in fact the result of impact craters. The first day's meeting was recessed at 5:00 pm.

The conference reconvened on May 9 with a paper by Dr. L.J. Evenden of the Dept. of Geography, Simon Fraser University. Dr. Evenden spoke on the teaching of urban studies in B.C. Betty Kidd, Head of the National Map Collection, Public Archives of Canada, discussed the history, current activities and future plans of Canada's largest map collection. Frances Woodward spoke briefly on the history, purpose and accomplishments of the Association of Canadian Map Libraries. Betty Kidd described a newly begun project which hopes to produce an historical atlas of Canada.

In the afternoon, Ms. Kidd gave a paper and slide presentation on the uses of maps in genealogical research. It was complimented by Ms. Woodward's reading of a paper, prepared by Wendy Teece of the Provincial Archives of British Columbia, on genealogical research in B.C. through the use of maps and other archival documents. The joint ACML/WAML meeting was concluded at 3 pm. It was followed by the WAML business meeting.

The business meeting was called to order at 3:35 pm by Vice President Mary Larsgaard. The minutes of the previous meeting were approved as printed in the March 1975 issue of the Information Bulletin. Stan Stevens presented a Treasurer's and an Editor's report. These will be published in final form for 1974/75 in the November issue of the Information Bulletin. The meeting approved the Editor's suggestion that charges for postage and packaging should be added to all orders for back issues. Action on raising the subscription rate or membership dues was deferred. An exchange of the Information Bulletin with the Australian Map Collectors Circle for its publication The Globe was approved. Phil Hoehn reported that the Sanborn union list, originally scheduled for publication in June, had become a larger undertaking than was anticipated, and that a December publication date was now planned. The report of the

Nominating Committee was presented by its Chair, David Schacht. Mary Hoerber and Mary Ansari were members of the Committee. The Committee's nominees were: Philip Hoehn for Vice President President Elect; David Lundquist and Dorothy Mewshaw for Secretary; and Stan Stevens for Treasurer. Ms. Larsgaard, currently President Elect, will assume the Presidency. Ed Thatcher nominated Anna Chiong for Vice President, but Mr. Schacht reported that she had already been asked and had declined. Elizabeth Al-Hazzam had accepted nomination for Vice President, but later withdrew because she will be leaving for Saudi Arabia. Nominations were closed, and the Secretary was instructed to send out a mail ballot to all members in WAML's Principal Region.

Ms. Larsgaard reported on the schedule of future meetings.

Fall 1975	October 24 & 25, California State University, Fullerton. Roy Boswell, coordinator. Topic: Historical maps.
Spring 1976	June. Joint meeting with SLA Geog. & Map Div., Denver.
Fall 1976	University of Oregon, Eugene; Oregon State Univ., Corvallis
Spring 1977	Tentatively planned for San Jose, Calif.
Fall 1977	To be held in WAML's Southern Region (Ariz. or So. Calif.)
Spring 1978	University of Washington, Seattle

A discussion urged that WAML members begin to work on or think about future projects suitable for publication as Occasional Papers. Among the suggestions made were a union list of unique or unusual locally held maps. Herb Fox agreed to outline the parameters of the project and present them to the Fall meeting. Other suggestions included a list of equipment for map libraries; a union list of topographic series; a union list of USGS quads; a union list of non-Sanborn insurance maps (WAML has some data already collected); a union list of gazetteers; a union list of county histories. Stan Stevens asked that members volunteer to become reporters for the section of the Information Bulletin, "New Mapping of Western North America." Don Haacke (for Idaho), Mary Blakely (for Arizona) and Anna Chiong (for Washington) have agreed to be reporters. Members from other states and provinces are encouraged to volunteer their services. It was decided to include a list of current WAML members and their addresses as an insert in a future issue of the Information Bulletin. Janet Rudd, UC Berkeley, was appointed to succeed Sheila Dowd as WAML's Archivist. Frances Woodward was officially thanked for the work she did in arranging the conference. The meeting was adjourned at 4:45 pm.

May 10th activities included a WAML/ACML tour of the Archives of the City of Vancouver, conducted by R. Lynn Ogden, City Archivist, and a tour of the Simon Fraser University Library given by Robert Malinski and Brian Phillips.

Respectfully submitted,
Philip Hoehn, Secretary

Attendance List

<u>NAME</u>		<u>AFFILIATION</u>
Dennis Baird	University of Idaho	WAML
Larry Bartis	Arizona State University	WAML
R. Batchelder	University of Calgary	ACML
Roy V. Boswell	California State University, Fullerton	WAML
Geraldine Callahan	Oregon State University, Corvallis	-
Anna Chiong	University of Washington	WAML

[Continued on p.16]

⁶ Bench Marks!

JAMES O. MINTON, WAML Associate Member, formerly Map Librarian, University of Kentucky, appointed Map Librarian, University of Michigan, Ann Arbor.

ELIZABETH AL-HAZZAM, WAML Member, Map Librarian, Hayden Library, Arizona State University, Tempe, is moving to Saudi Arabia to assume a post at the College of Petroleum & Mining, Dhahran; Larry Bartis will become head of the ASU Map Service. We wish Elizabeth - farewell and good luck!

JANET RUDD, Map Librarian, University of California, Berkeley, appointed WAML Archivist. [The WAML Archives is located in the Map Room, General Library, UC Berkeley.]

JANET RUDD, and STANLEY STEVENS, will each present a one-hour workshop on maps stressing collection development to participants in the Special Topics Discussion Groups at the American Libraries Association annual meeting, San Francisco, July 1, 1975.

IRENE KUPFER, WAML Member, Supervisor, Irvine Map Library, Armacost Library, University of Redlands, Redlands, California, "has become a casualty of necessary budget cutting" and is no longer at Redlands. Alice Beaver, Public Services Librarian in Special Collections (which includes the Irvine Map Library) is now in charge of the map collection.

BARBARA CHAPPELL, WAML Associate Member, formerly Geology Librarian, University of Texas at Austin, has been appointed Reference Librarian, U.S. Geological Survey Library, Reston, Virginia.

LORNE B. LEAFLOOR, Head, Departmental Map Library, Department of Energy, Mines & Resources, Ottawa, Canada, is a new Associate Member of WAML. [Please note a new address for the Map Library: 580 Booth Street, Ottawa K1A 0E4.]

CINDI EVERITT, new Associate Member, WAML, is in charge of the Map Section, Library, University of Texas at El Paso, TX 79968. She sends the following description of her collection: *"The Map Section was created in May, 1973, for the purpose of centralizing all maps in the Library System. Presently some 30,000+ sheets of maps have been cataloged and organized. It is estimated that the entire collection will approach 60,000+ sheets. A card catalog is available in the Maps Room to help locate specific maps. The collection includes: topographical maps of the U.S.; world, geologic, meteorological, demographic, aerial, oceanographic, and historic maps & facsimilies. Our big emphasis at present is to acquire Mexican maps from various government agencies and subscribe to the "CETENAL" mapping project. Location: West end of the Library, top stack level of the old Library building. Enter from Second Floor through Microforms Section."*

LYNN S. MULLINS was presented the 1975 Honors Award for outstanding achievement in Geography and Map Librarianship by the Geography and Map Division of Special Libraries Association at its 66th Annual Conference in Chicago. A distinguished librarian, bibliographer and editor, Ms. Mullins is the Librarian of the American Geographical Society. During the past 5-years she has served as Editor of the SLA Geography and Map Division Bulletin. [Word has just reached us that Ms. Mullins has resigned her Editorship. WAML offers its congratulations on her Honors Award, and best of luck in her "retirement" from the Bulletin.]

THE MAPS OF THE AMERICAN AUTOMOBILE ASSOCIATION

Harold M. Otness
Southern Oregon College Library

Introduction

The value of the common roadmap as an information source and as a teaching aid has long been recognized by librarians, geographers, and school teachers, and the professional literature of these fields is sprinkled with reminders and advice concerning the use of them (Allison, Harper, McCloy, Vuicich, etc.). Because these maps lack what librarians like to call "bibliographic control," and perhaps because of their commonality, these articles seem to fill a need.

While most roadmaps have been free and abundant in the past, their availability today is becoming greatly restricted. Most of the major oil companies have cut back or eliminated completely their distribution of free maps, and it is not unusual now to be charged twenty-five cents per map--when you can find them. With scarcity and expense comes value, and the lowly roadmap's days as a throw-away item may be coming to an end.

Oil companies have been the major distributors of roadmaps, having given away an estimated 220,000,000 copies annually as recently as 1968 (White, 7). An excellent article has been written concerning the history and development of oil company maps (Ristow). But other organizations have also distributed roadmaps and there has been little in the literature concerning them. This paper is an attempt to shed some light on the maps of the nation's largest travel organization - the American Automobile Association.

Background of the American Automobile Association

The A.A.A. is an affiliation of 235 automobile clubs in the United States, each of which carries a distinctive name and is governed locally (see appendix for list of clubs in the W.A.M.L. primary area). The national organization was formed in 1902 by several clubs, mostly in the northeastern states, with the objectives of encouraging legislation favorable for the motorist, the construction and improvement of public

This is an enlarged and updated version of a paper presented at the Fall, 1974 meeting of the Western Association of Map Librarians in San Francisco.

highways, and to provide counsel and cooperation between the various local motoring organizations. Its impact on the highway building programs, both national and state, and its later efforts to promote motoring safety, were widely acknowledged and its growth in membership was dramatic (see Partridge for a more complete account of the early days of the A.A.A.). Today the organization provides a large number of services for its more than 15,000,000 members, ranging from insurance, to emergency road service, to the dissemination of travel information.

The Maps

The keystone of the travel information is the popular roadmap. The first roadmap published in America is thought to have appeared in the Chicago Times Herald in 1895. It depicted the route of an automobile race (Ristow, Am..., 397). Soon after the roadmap began showing up as a supplement in guidebooks and by 1902 it appeared as a separately published item (Ristow, 620). The earliest A.A.A. roadmap may have been one of Staten Island which appeared in 1905. The following year there was a map of north and central New Jersey (Ristow, 620). By 1909 the A.A.A. was known to have published at least twenty roadmaps (Ristow, 622).

As motoring became more popular and the organization grew, its output of roadmaps increased. One source has stated that it was largely due to the A.A.A.'s free map program that the oil companies began giving away maps (Lehman, 92). By 1952 the A.A.A. was distributing in the neighborhood of 40,000,000 maps yearly (Kirkland, 124). Current distribution has been estimated to be around 180,000,000 copies yearly (Soule and Norbut).

Where They Come From

The A.A.A. maps are from a variety of sources and take on many different forms. Most of the state and interstate maps are compiled and published by the parent organization in the Cartographic Division of the national office in Rockville, Maryland. These are more or less standard in format.

A few of the larger local clubs, most notably the two California clubs, maintain their own cartographic staffs which produce some outstanding maps of their own regions. The California State Automobile Association, for example, has an annual budget of \$225,000 and a staff of nine. They issue almost a hundred different maps, most of which are revised annually, and distribute 2,600,000 copies of them each year. They make maps of cities and towns, counties, and recreation areas in Northern California, and cooperate with their southern counterpart, the 1,250,000 member Automobile Club of Southern California, in jointly issuing some of their maps. The C.S.A.A. cartographers draft their maps on Scribecoat and have their printing done commercially. Most of their maps are printed in four colors and they rate highly for readability (Solloway).

The Automobile Club of Washington has also made some of its own maps. In the early 1900's it produced single color hand-lettered maps of such recreation areas as Mt. Rainier and the Olympic Peninsula. These efforts were expanded over the years. In the early 1950's their mapping activities were contracted to Northwest Mapping Service. In 1970 a cartographer was hired and now the Seattle office produces a number of attractive special maps. A series of "travel-recreation maps" is being developed. Other map series include the "explore and enjoy driving maps" and the "mini tour maps." Scibing technique is used and a computer helps keep track of placenames and other information that goes into the maps (Campbell).

Another local club that makes some of its own maps is the Automobile Club of Michigan. Many of the local clubs contract with private mapping organizations to provide them with maps of their own area. These maps usually bear the imprint of both the maker and the A.A.A. club. The Automobile Club of Oregon, for example, distributes a map of Portland which it gets from the national organization (which in turn gets it from Gousha) and also another map of the city which is acquired under contract from Oregon Blueprint Company. Their map of Eugene, Oregon, is currently acquired from the Eugene Chamber of Commerce, which has it made for them by a local mapping firm. The Medford office of the A.C. of O. contracts with another local mapmaker for maps of Medford and Ashland. Thus the A.A.A. maps may be from any number of different sources. The policy is to acquire or compile the best possible map of the area for the club members. Many of the local maps carry advertising which helps to pay for the cost of compiling and printing them.

How They Are Distributed

As an affiliation of more-or-less independent clubs, each local organization has the responsibility of supplying the others with maps of its area, while the national organization supplies the state, interstate, and many of the city maps to all the clubs. Thus all of the A.A.A. maps are available, theoretically, from any of the clubs, regardless of their source of origin. The Seattle office has, or can get for its members, maps of Boston, for example. The coordination of this rather complex exchange system is handled by the national office. Each club periodically orders, either from the national office or the appropriate affiliated club, the maps it expects to need. The maps are given at no charge to members of any A.A.A. club, but each club must pay for the maps it gets and the price is based upon the actual cost of production or acquisition. Those maps published in volume have a lower unit cost; those printed in color cost more, etc. The costs of single maps to the clubs may range from five cents to well over a dollar. The entire map distribution system, as with other operations of the A.A.A., is based upon mutual trust and cooperation between the local clubs and the national organization. That it works well is obvious from the satisfaction of its members: the maps are one of the most popular services the organization provides.

Type of Maps

There are essentially four kinds of maps issued under A.A.A. auspices: the general state and interstate maps, the city plans, strip or "Triptik" maps, and various special maps of recreation areas, counties, and other intrastate areas. In addition, other A.A.A. material, most notably the popular tour books, include maps which are simplified to facilitate specific uses.

1. The general highway maps cover the entire U.S., regions within it, and individual states. The state maps usually have two or more states per sheet, with both sides of the paper being used. These maps concentrate on showing highways and thus ignore some topographic detail found on the better oil company maps. For example, if relief is shown, it is depicted by very generalized shading which does not indicate gradation or a high level of detail. However, the national parks and forests, Indian reservations, and military lands are colored in, county and city boundaries are indicated, and major lakes and rivers are depicted. There are insets at smaller scales showing metropolitan areas and location indexes to communities which provide map coordinates, but no population figures (which appear in the companion tour books).

The strength of these maps is in their highway information. Roads are classed according to quality, mileage is given between all points, locations of A.A.A. offices are shown, toll facilities and charges are provided in the legend, and communities with approved accommodations have their names printed in red. In addition, there are insets showing distances between major points along with average driving times.

These are attractive maps, relatively uncluttered and easy to read. They are compiled by the Cartographic Division of the national office in Rockville, Maryland, and printed by Fawcett Printing Corporation of the same city.

2. Most of the streetmaps of the large cities are the work of H. W. Gousha Company of San Jose and are very similar to those distributed by the oil companies. They index all streets, have insets of downtown districts and the greater metropolitan areas, and some have separate indexes to "major attractions" or important buildings such as government offices, hospitals, and hotels. In addition, the two California clubs compile their own maps of urban areas and other clubs distribute city maps from a wide variety of sources. There are special freeway maps which show tourist attractions and main routes leading to them. The A.A.A. has map coverage in one form or another for most communities in the U.S. of 25,000 or more population, and some coverage of smaller communities as well.

3. The Triptik maps are strip maps which are oriented to major highway routes. Each sheet is approximately 3" x 6" and covers anywhere from 100 to 300 miles, depending upon the amount of detail that needs to be shown for the area. These sheets open up to reveal additional information such as simplified city plans, maps of recreational areas, and descriptive text. The maps themselves indicate mileage between points, approved facilities such as motels and restaurants, and directional information.

Triptik maps are gathered together to form itineraries for individual members. They are held together by plastic spiral bindings. Pages for records of expenses are added. The projected route is traced on each map using a felt-tip pen.

The small size and handy format make the Triptik maps popular with travelers, but their personalized compilation and concentration on highway information limit their usefulness for other purposes. They are very helpful in planning a trip and carrying it out, and they make nice souvenirs when the journey is over. But one is not likely to find them in map libraries.

4. The special use maps come in all sizes and shapes and some of them are very interesting to the cartographer. Most are produced by the larger local clubs which have cartographic departments. The two California clubs compile some of the most noteworthy maps of the West. The Automobile Club of Southern California, for example, publishes county maps in booklet form which are veritable atlases. The edition for Orange County has almost seventy pages, including complete indexes to the streets and highways, strip diagrams of freeways which show every interchange, and other information helpful to the motorist. Their "Desert Area" map covers Death Valley to Lake Mead and is designed for recreation use. It shows backroads, campsites, scenic attractions, against a background of very effective shaded relief.

The California State Automobile Association publishes sectional maps for Northern California which are excellent for shunpiking.

Updating the Maps

The A.A.A. takes pride in the accuracy of the motoring information on its maps and particularly on its program of updating and revising. Most maps are revised yearly, some more often, and they are dated so the user will know how current they are. Field checking is done by local staffs and data is continually received from various sources concerning the state of the roads. The Portland office, for example, receives the monthly reports of the Oregon State Highway Department indicating new roads, construction sites, detours, and other matters of concern to the motorist. If of a permanent nature, this information will be incorporated into the next edition of the map; if temporary, it is mentioned as verbal travel advice when handing out the maps.

A Note on Foreign Maps

In addition to providing maps of the United States, the A.A.A. also compiles and distributes some maps of foreign countries. It has good map coverage of Canada and Mexico in particular. Some of its Canadian city maps are made by Gousha, just as they are for the U.S. The Automobile Club of Southern California produces some excellent maps of Baja California for its members.

The A.A.A. is itself an affiliate of an international organization of motor clubs and as such there is some exchange of travel information between the many national organizations of the world. However, the exchange of maps is still on a limited basis and there appears to be a trend towards charging the members for these maps.

Summary

The American Automobile Association and its many local affiliates are major compilers and distributors of roadmaps. Perhaps no other non-governmental organization in the country produces so many different maps, or sends out so many copies of them. While designed primarily for the needs of motorists, most of them have other uses as well, which is true of all good maps.

Because so many of their maps find their way into map libraries, a word of warning is in order. These maps are made for the members of the various clubs, who pay yearly dues for the privilege of owning and using them. Unlike many government-made maps, they are not public property. They are protected by copyright legislation. Permission must be received for reproducing them in quantity for any purpose.

Membership in the A.A.A. is open to anyone willing to pay the fee, which ranges from \$20.00 to \$30.00 per year, depending upon the local club. This provides full access to the maps, a service which the map lover may find well worth the cost.

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APPENDIX

HEAD OFFICES OF THE AFFILIATES OF THE
AMERICAN AUTOMOBILE ASSOCIATION IN THE W.A.M.L. REGION

ARIZONA	Arizona Automobile Association 748 E. McDowell Road Phoenix 85006	602 252-7751
CALIFORNIA	Automobile Club of Southern California 2601 S. Figueroa Street Los Angeles 90051	213 746-3111
	California State Automobile Association 150 Van Ness Avenue San Francisco 94101	415 565-2012
COLORADO	Rocky Mountain Motorists 4100 E. Arkansas Avenue Denver 80222	303 756-8811
HAWAII	Automobile Club of Hawaii 150 Kaiulani Avenue Outrigger East Hotel Lobby Honolulu 96815	808 923-7345
IDAHO	Idaho State Automobile Association 414 Main Street Boise 83702	208 342-9391
MONTANA	Montana Automobile Association 607 N. Lamborn Street Helena 59601	406 442-5920
NEVADA	See California State Automobile Association	
NEW MEXICO	New Mexico Division, A.A.A. 2201 San Pedro Blvd., N. E. Building 111 Albuquerque 87110	505 265-7611

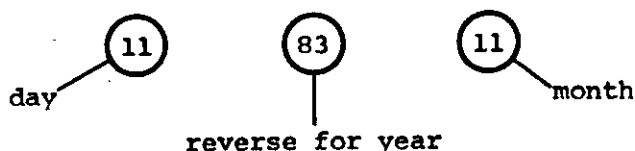
OREGON	Automobile Club of Oregon 600 S. W. Market Street Portland 97201	503 227-7777
UTAH	Automobile Club of Utah 560 E. 5th Street, S. Salt Lake City 84102	801 364-5615
WASHINGTON	Automobile Club of Washington 330 6th Ave. N. Seattle 98109	206 682-0707
	Inland Automobile Association W. 1717 4th Avenue Spokane 99204	509 455-3400

CANADA

ALBERTA	Alberta Motor Association 109th Street and Kingsway Ave. Edmonton	403 474-0461
BRITISH COLUMBIA	British Columbia Automobile Ass'n. 999 W. Broadway Vancouver 9	604 732-3911

DATE-CODING OF AUTOMOBILE CLUB MAPS

Some years ago (about the early 1930's & 1940's) the automobile clubs found that their patrons were discarding maps that were still current because the date on them showed that they had not been remade for several years. To save the expense of unnecessary replacements, they devised a coding system which was simple, yet effective:



Bernice Kimball
 Historical Map Section
 Street Opening & Widening Division
 City of Los Angeles

DUPLICATE MAPS AVAILABLE● Stanford University is disposing of the following maps, first come-first served:

Approximately 1800 World Aeronautical Charts (1:1,000,000) of the 1st & 2nd Series, dating from the mid-1940's in some cases, through the 1960's in others. The coverage is world wide, with many editions of some sheets.

Approximately 175 U.S. Coast and Geodetic Survey charts of Alaskan waters, Atlantic and Gulf coasts and some California and other west coast areas. Most of these are from the late 1960's. Stanford University's Map Collection is keeping only charts of the San Francisco Bay area.

A set of British Columbia Forest Service, Forest Surveys and Inventory Division index maps to the interim forest cover series and forest inventory reference system, Victoria, B.C., 1958- . B.C. Dept. of Lands and Forests. 1:126,720. Each of the 149 sheets is folded into an envelope.

Contact: Karyl Tonge, Map Librarian, Central Map Collection, General Reference Department, Stanford University Libraries, Stanford, CA 94305 .

● Free Library of Philadelphia is disposing of all older quads other than the most recent edition for all states other than Pennsylvania, Maryland, West Virginia, New Jersey, Delaware, and the border quads for Ohio and New York. Available on a first-come/first-served basis to any library willing to take a whole state and pay the postage. Replies only to those who are lucky, so if you hear nothing, please just assume the other library's request reached Philadelphia sooner.

In addition to the USGS quads, the following duplicate folios of the USGS Geologic Atlas of the United States are available on an individual basis; i.e., select only those you need:

Geologic Foliios # 1 thru # 227 [in some case, several copies of each]
Topographic Foliios # 1, # 2, # 3.

Contact: Jeremiah Post, Map Librarian, Free Library of Philadelphia, Logan Square, Philadelphia, PA 19103.

● Bancroft Library, University of California, Berkeley has about 100 copies of exhibition catalogs available for the asking:

1. Cartographie Door De Eeuwen. Uitgegeven ter Gelegenheid van de Cartographische Tentoonstelling in de Bijenkorf te den Haag van 23 T/M 30 Juni 1937. 16 pp. 15 cm. illus.

2. Cartographie Door De Eeuwen. Door Alfred H. De Vries. Uitgegeven ter Gelegenheid van de Cartographische Tentoonstelling (uit de Collectie A. H. De Vries) in de Bijenkorf te Amsterdam van 23 April T/M 4 Mei 1938. 16 pp. 15 cm. illus.

Contact: Phil Hoehn, Map Librarian, The Bancroft Library, University of California, Berkeley, CA 94720

[Continued from p. 5]

[Attendance List, Vancouver Meeting]

Mary Lou Derwing	University of Alberta	WAML-ACML
Ann Dodd	Vancouver Public Library	-
Jeannette Fish	Vancouver Public Library	-
Herb Fox	California State University, Fresno	WAML
Georgina J. Getty	Vancouver, B.C.	B.C.G.S.
Gwen Gregor	University of British Columbia	-

[Continued on p.21]

JOB OPENING [see also GIS NEWSLETTER, p.54]

MAP CURATOR POSITION AVAILABLE. Department of Geography, University of British Columbia, Vancouver.

The Geography Department has a Junior Technician position available on July 1, 1975 for a person to be in charge of the departmental map library and air photo collection. Salary is about \$950. per month, depending on qualifications. This is a union position, with annual increments. Preference will be given to persons with previous experience in a geography department, or other map library; and/or with previous experience with filing air photos. Some drafting skill will be helpful, and elementary typing to prepare index cards. Suitable personality to deal with students and faculty, and knowledge of B.C. or Canada to answer questions related to map information. Ability to mount and repair maps desirable.

Please send inquiries and applications stating experience and background to: Dr. J. Lewis Robinson, Department of Geography, University of British Columbia, Vancouver, B.C., V6T 1W5.

CAPTAIN JAMES COOK AND HIS TIMES

The Department of History, Simon Fraser University, Burnaby, British Columbia, Canada, V5A 1S6, will present an international and interdisciplinary Symposium in mid-April 1978 on the occasion of The Bicentenary of Captain James Cook's Landing at Nootka Sound, March-April, 1778, during his Third Voyage of Exploration and Discovery (1776-1780).

This symposium is designed to offer a forum for the presentation of papers, panels, and discussions of new research and reappraisals by scholars in many fields. The symposium will focus on the impact on British Columbia, the North West coast of North America and the North Pacific littoral of Cook's third voyage, as well as the impact on Oceania, North America and the European world of Cook's life of exploration and discovery.

Please direct any inquiries, suggestions, or comments to: Chairman (Captain Cook Symposium), [to the departmental address given above]; [announcement courtesy of Professor P. Auty, Chairwoman, Department of History].

PRACTICAL COURSE IN MAP CURATORSHIP, EDINBURGH 1976

The National Library of Scotland, Edinburgh University Library and the British Cartographic Society are jointly organising a practical course in map curatorship to be held at the Map Room of the National Library of Scotland, 31 March - 4 April 1976. The course, for twenty participants, is intended for individuals who look after map collections of all types and will deal with practical problems by demonstrations and group projects. It will embrace some of the problems encountered in setting up a map collection. Acquisition, the identification and evaluation of cartographic materials, the use of cartobibliographies, and the conservation of maps will be among the subjects covered.

Accommodation will be arranged in the University of Edinburgh Pollock Halls of Residence. The course fee and accommodation charges will be announced later. Enquiries should be sent to Miss J. M. Wilkes, Map Room, National Library of Scotland Annexe, 137 Causewayside, Edinburgh EH9 1PH. [Announcement courtesy of Merle Abbott, Convenor, British Map Curators' Group.]

THE MANAGEMENT OF MAP COLLECTIONS

A course intended for map curators and librarians responsible for map collections was held June 17-19, 1975 at Aslib Headquarters, London. Jointly sponsored by Aslib and the Map Curators' Group, British Cartographic Society, the program included the following:

"What I do and what my management problems are" - participants described their organisations and their management problems, which developed into a discussion among the panelists: Helen Wallis, British Library, Map Library; Peter Clark, Mapping and Charting Establishment, R.E.; Elspeth Buxton, Librarian and Map Curator, School of Geography, Oxford; and Merle Abbott, Department of Geography, Birkbeck College, London.

"Organizational problems: the jobs there are to do; work flow; relating staff to jobs", by Peter Clark.

"The Economic use of Resources", by Roger Fairclough, Map Room, Cambridge University Library, and J. L. Schofield, Cambridge Library Management Research Unit.

"Physical planning of map libraries", held at the Map Library, Department of the Environment, Prince Consort House:

"Moving a map library: the organisation of the move and the problems encountered", by Tony Grove, Map Librarian, and Christine Stringer.

... at the Guildhall Library, Aldermanbury: "General problems of moving the library", by Godfrey Thompson, Librarian; "Problems of moving maps and prints", by J. L. Howgego, Keeper of Prints; and, "Conducted tour of the department", by Ralph Hyde, Assistant Keeper of Prints.

"Staff Management", by Helen Wallis, and Elspeth Buxton.

"Education and training of map librarians", by G.W. Burston, School of Librarianship, Ealing Technical College, and Grian Candy, Mapping and Charting Establishment, R.E.

"Management problems of a learned society library", by Brig. R. A. Gardner, Royal Geographical Society.

"International developments in map librarianship", by Helen Wallis

"General discussion on the course", with lecturers and organizers present.

ASIAN HIGHWAY ROUTE MAP

A practical guide to motorists/Asian highway route map, is the title of an October 1973 map sent to Larry Cruse, UC San Diego, by the Tourist Organization of Thailand, 510 West Sixth Street, Suite 1212, Los Angeles, CA 90014 ph.: (213) 627-0386. The map is subtitled: Singapore-Vientiane Route A-2/A-12 via Bangkok & Kuala Lumpur. The main map @ 1:1,250,000 and has text and photos on verso, advice to motorists, and distance chart. There are detailed city maps of Kuala Lumpur, Singapore, Vientiane, and Bangkok @ 1:32,500, 1:26,500, 1:25,000, 1:28,500, respectively. The text cites Exit and Entry Procedures, Climate, Hotels and Youth Hostels, YMCA & W Hotels, Outline of the Asian Highway Project, and general tourist information. The map is of classic "Harold Otness" interest; i.e., two maps 39 x 107 cm., folded accordion style to a single map 21 x 14 cm. back to back mounting, with a built-in index and gend on facing panel when opened. Published by the Bridgestone Tire Co; Ltd; it is distributed by the U.N. Economic Commission for Asia and the Far East.

DEACIDIFICATION, LAMINATION
AND THE USE OF POLYESTER FILM ENCAPSULATION
AT THE LIBRARY OF CONGRESS

by

Peter Waters
Restoration Officer
Preservation Office
Library of Congress

February 1975

At the Library of Congress the lamination of manuscripts having archival value, i.e., documents which should be preserved indefinitely, as distinguished from those which need be preserved for 50-75 years or less, has been almost entirely abandoned in favor of techniques which are much less damaging to the originals and which leave them completely accessible for future treatments if needed. In other words, we have adopted a much more cautious attitude toward any process which might render future treatment either impossible or economically unfeasible.

When the Barrow process [Barrow, William J./Deacidification and Lamination of Deteriorated Documents, 1938-1963. *American Archivist* 28: p.285-290 (Apr 1965)] is correctly used and precisely monitored the life expectancy of laminated documents may be archival, although we do have some reservations about this. As you know, there is ample evidence that lamination without deacidification and alkaline buffering is nearly worthless as an archival preservation technique. We consider it absolutely essential, therefore, that all materials be laminated, deacidified, and buffered with an alkaline salt leaving approximately 3% reserve in the paper. However, most presently used aqueous treatments for deacidification and buffering cannot be depended upon to leave this degree of alkaline reserve in all papers, papers which may differ widely in kind and condition and thus in their receptivity to the treatment. For example, the rather commonly used Barrow "one-shot" method, using two grams of dissolved magnesium carbonate per liter, does not leave an adequate alkaline reserve in treated paper. Hopefully, future investigations will make it easier to predict the percentage of alkaline reserve left in the sheet by a given treatment. This is an area in which L.C. scientists are presently conducting research.

For documents of limited value, which can be categorized as requiring less than archival preservation, we see no reason why cellulose acetate lamination should not be used, and we continue to use lamination for such materials. However, since L.C. places most documents in the archival preservation" category, in practice we now laminate very little except a few maps. On the other hand, for documents requiring archival preservation, i.e., those documents which should be expected to last at least 500 years, we believe there is sufficient evidence of the inadequacy of lamination to eliminate it as an acceptable technique in such cases.

We prefer to use, instead, techniques like polyester film encapsulation which cannot physically damage documents in any way. Polyester film is by far the strongest physical support medium we have found. Moreover, it is instantly reversible, whereas the lamination process can be reversed (i.e., the film and

tissue can be removed) only with great difficulty and sometimes not at all. Thus, with polyester film encasement the option for additional treatment is left open.

We believe also that many documents undergo significant deterioration as a result of the 340°-360°F heat of the laminator, even though they may be subjected to such heat and pressure for the relatively short period of 20 seconds - 40 seconds. It is an observable fact that many documents darken or yellow significantly in the process. Further, there is evidence in our own collections that many materials laminated from 15-20 years ago are now turning brittle within the lamination. It is impossible to discover all the reasons for this because we cannot perform destructive analytical tests on the actual artifacts. However, the evidence is enough for us to adopt a much more cautious approach to lamination. We are certain, however, that one reason for the deterioration of the laminated documents is the unpredictability of aqueous deacidification and buffering treatments. Another reason may be that the cellulose acetate used did not conform to the suggested specifications set forth by Wilson and Forshee in N.B.S. monograph no. 5, 1959. [William K. Wilson and B. W. Forshee, Preservation of Documents by Lamination, U.S. National Bureau of Standards, Monograph No. 5, 1959.]

W. J. Barrow, the pioneer of the whole process, left adequate guidelines for the testing and control of his deacidification solutions. We know, however, that some of his most specific recommendations are not being carried out in a consistent manner by restoration workshops in this country. As an example, titration of deacidification solutions is a very important and fundamental method for checking such solutions both before and during the treatment process. This is, in fact, almost the only practical way to monitor the percentage of saturation which, in turn, indicates the degree of buffering capacity. When I first came to L.C. several years ago, I found no knowledge of this method of checking the effectiveness of deacidification solutions and, in fact, no real control of such solutions. Even today, few workshops know anything about the proper control of deacidification solutions.

Although our own Restoration Office now has far more precise methods for controlling aqueous deacidification and buffering procedures, these controls are not yet foolproof, simply because the documents themselves are so variable. As noted above, techniques are needed which predict, with a reasonable degree of accuracy, the full effect of a given treatment. There is, for example, no easy and convenient way, at the moment, of measuring the alkaline reserve in a treated artifact. Unfortunately, and this is not generally recognized, there is no correlation between pH and alkaline reserve. Only by soaking test papers having a similar composition and water receptivity to the documents being treated can one test for alkaline reserve by destructive titration, and only on that basis can one assume that the documents will be similarly treated.

As for polyester encasement, the film and the acrylic double-coated tape used to seal the edges of the envelope have been successfully aged in our laboratory for 60 days--the equivalent of about 500 years natural aging, with little to no deterioration. Further, we have aged a variety of papers, both those which have been deacidified and buffered and those without treatment, for similar periods of time. In the case of newsprint, folding endurance of the encapsulation was in excess of 6500 folds. On this basis alone, the strength of a laminated document is simply not in the same class with polyester film encasement. Polyester film encasement provides additional protection to the treated document in that no matter how brittle the paper it is nearly impossible to fracture the document after it has been encased in polyester film, if

a four-edge seal is used.

A comprehensive research program into all aspects of cellulose acetate and other types of lamination is needed before any final pronouncements can be made. We know, however, that there are enough unexplained problems with lamination to suggest that it should be used cautiously and only under precisely controlled conditions. On the other hand, there are almost no problems with polyester film encapsulation. Of course, most techniques can be faulted in some way. Polyester film is heavier than lamination; it also has a high gloss. The question is one of judgment between several factors.

We do not presume to advise others to change their techniques because we have broadened the scope of techniques for the treatment of our own collections. This Library is very fortunate in having several techniques for preserving artifacts, from microfilming, to "phased preservation", to "partial stabilization treatments", to the very careful and time consuming work of preserving single artifacts of great rarity. Other institutions will have fewer options.

We do suggest, however, that those interested in the archival preservation of their collections should: 1) evaluate their present procedures in terms of their potential for damage to the documents being treated, and 2) seriously consider some of the newer procedures available. No single treatment is a panacea for every preservation problem. Obviously, however, the best treatment is that which does as little harm to the document as possible.

We are now preparing for publication a pamphlet on the technique of polyester film encapsulation and will be glad to send this to you when it is available. This pamphlet suggests that polyester film encapsulation is a new and valuable preservation tool which may service better than lamination in many instances. Which process should be used on a given document, however, is a decision for the librarian or archivist, and is dependent upon the nature of the materials, their preservation category, and other factors, many of which differ from situation to situation.

EDITOR'S NOTE: We are indebted to Richard W. Stephenson, Head, Reference and Bibliography Section, Library of Congress, from whom I requested a description of this new method, for securing this important contribution from Mr. Waters.

The polyester film cited herein is Mylar, manufactured by Dupont. One vendor of this material is Transilwrap Corp., 2741 No. 4th St., Philadelphia, PA 19133. The "acrylic double-coated tape" is transparent polyester film, No. 415, 1/4" w x 36yards long, manufactured by the 3M Corp., St. Paul, MN 55101.

When an answer is received from these manufacturers, quantities and prices will be published in the Information Bulletin, WAML.



[Continued from p.16]

Don Haacke
Marjorie R. Henry.
Phil Hoehn
Eugene Hoerauf
Lee Hubbard
Carolyn Hughes
LaVonne Jacobsen

[Attendance List, Vancouver]

Boise State University	WAML
Seattle Public Library	WAML
Bancroft Library, Univ. Calif. Berkeley	WAML
Bellingham, WA.	-
University of Washington	WAML
E.L.U.C. Secretariat, Victoria	-
San Francisco State University	WAML

[Continued on p.29]

catalogues

GEOLOGIC MAP SERVICE/Telberg Book Corp. Sag Harbor, New York 11963 [P.O. Box Drawer N]

Recent additions to their "Detailed Catalog" via supplemental pages lists worldwide coverage. Of these, the Geological map of the Pacific mobile belt and Pacific is the most beautiful geological map seen recently. Nine sheets, printed in 292 colors, represents the 1970 compilation by the Russia, Ministerstvo Geologii SSSR. Scale 1:10M. \$60.

AUSTRALIA. DIVISION OF NATIONAL MAPPING.

Air photographs and related products. Edition 1, January 1975.
Maps of Australia and Australian Territories. Edition 1, January 1975.

The first is an index to air photos of Australia. Includes satellite photos, yr. of photos, etc. 1:84,000 & 1:250,000 photomaps, & 1:63,360. The second is also an index, to topographic coverage, for Australia @ 1:100,000 & 1:50,000 & 1:250,000 & 1:1M (IMW) as well as Australian Antarctica at both 1:250,000 topo and 1:1M (IMW). Ordering information & prices.

free P.O. Box 667, Canberra City, 2601, Australia.

ALASKA. DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS.

List of reports [some incl. maps] issued by Information Circular 11, rev. May 1, 1975. 11 pp., 28cm. Cites which items are OP & those avail.

free P.O. Box 80007, College, AK 99701

BRITISH COLUMBIA. ENVIRONMENT AND LAND USE COMMITTEE SECRETARIAT. RESOURCE ANALYSIS UNIT.

Semi-annual list of available publications. October 1974. Text and index maps, covering land inventory, recreation, soils, etc. of B.C.

free c/o Parliament Buildings, Victoria, B.C. V8V 1X4, Canada.

ROYAL GEOGRAPHICAL SOCIETY.

Publications and Maps 1975.

free 1 Kensington Gore, London SW7 2AR, England.

CALIFORNIA. DIVISION OF MINES AND GEOLOGY.

List of available publications, 1975. Prices, ordering information, etc.

free P.O. Box 2980, Sacramento, CA 95812

CANADIAN HYDROGRAPHIC SERVICE.

Annual Report 1974. Published by Office of the Editor, Fisheries and Marine Service, Environment Canada. 42 pp., 28cm. Information Canada, Cat. No. Enl-10/1974.

free 116 Lisgar, Ottawa K1A 0H3, Canada

Describes nautical chart production for the year, programs undertaken by the agency. The Addendum cites New Charts Released during 1974, New Editions Published in 1974, Information Bulletins and Chart Indexes Published 1974; Natural Resource maps Published in 1974.

CANADIAN HYDROGRAPHIC SERVICE.

Information Bulletin 13: Canadian Nautical Charts, Catalogue of Nautical Charts and Related Publications [for] Southern British Columbia Coast including Vancouver Island. January 1974.

Information Bulletin 14: ... [for] Northern British Columbia Coast including Queen Charlotte Islands. January 1974.

free both from: Marine Sciences Directorate, Room 512, Federal Building, Victoria, B.C., V8W 1Y4, Canada.

BRITISH COLUMBIA. DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES. LANDS SERVICE.

1974 Key [index maps] 1, 4 to 7: Departmental Mapping; Key 2: British Columbia air photo mosaics; Keys 8 to 14: Published Maps; Keys 15 to 18: Air Photo Cover; Keys 19 to 22: Land Acquisition Maps.

Each Key, or index map, cites methods of ordering maps and aerial photos.

free Director, Surveys and Mapping Branch, Victoria, B.C., Canada

L.S. STRAIGHT

Catalogue 287: Maps and Prints. May 1975. 94 items, worldwide.

free P.O. Box 106, New York, NY 10016

Catalogue 286: Americana. April 1975. 89 items, includes Canada.

WESTERN ECONOMIC RESEARCH CO.

New Catalog - Summer 1975. Includes additional items in the 1970 Census Map Series & 1970 Census Data Series for three metropolitan areas of California: San Francisco Bay Area 13 County area, Los Angeles 5 County area, San Diego County.

free 13437 Ventura Blvd., Sherman Oaks, CA 91403

TABULAE NOVAE TERRAE/Capt. K.S. Kapp

Catalogue XII: Antique and Decorative Maps and Prints. 963 items, Western Hemisphere. illus. Inside back cover lists recent map ref. books.

free Box 121, North Bend, Ohio 45052

RICHARD "DICK" HANSEN

A Catalog of Maps & Charts 1840's to 1880's: Catalog Number 7. 400 items covering Western Hemisphere.

free 12410 New Airport Road, Auburn, CA 95603

HISTORIC URBAN PLANS

Historic City Plans and Views, 1975 Spring Supplement. Includes new plans and views added to stock during past six months.

free Box 276 Ithaca, NY 14850

TEJAS GALLERIES

Rare Maps: Catalog 16. 346 items, worldwide. illustrated.

free 601 Rio Grande, Austin, TX 78701

C. BROEKEMA, Antiquarian Book and Mapseller

Catalogue 52: Old Maps of America. 394 items, Western Hemisphere, nearly all of which were published before the Revolutionary War. Prices quoted in U.S. Dollars.

An insert lists original works and reprints pertaining to the history of cartography.

free 28 Titiaanstraat, 1009 Amsterdam, The Netherlands

ACQUISITIONS LISTS

CALIFORNIA STATE UNIVERSITY, FRESNO. THE LIBRARY.

Atlas and Map Acquisitions, 1974. by Herbert Fox, Map Librarian. Fresno, March 1975. CSUF, Fresno, CA 93726

CALIFORNIA STATE UNIVERSITY, LONG BEACH. THE LIBRARY. Business, Economics & Geography Reference Department.

New Acquisitions to the Map Room, No. 15: April, 1975. Compiled by Sandra J. Lamprecht, Map Librarian. 6101 E. 7th Street, Long Beach, CA 90840

UNIVERSITY OF ARIZONA. TUCSON. LIBRARY, Map Collection.

UA Map News Monthly: Vol. 6, No. 8, April 1975, Atlases of the World. Compiled and illustrated by Christine Ziegler.

_____ : Vol. 6, No. 9, May 1975, Books and Atlases, and new maps [added to the collection]

Map Collection, University of Arizona Library, Tucson, AZ 85721

ILLINOIS STATE UNIVERSITY. NORMAL. MILNER LIBRARY. MAP ROOM.

Acquisitions List, May 14, 1975.

Normal, IL 61761

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN. GEOLOGY LIBRARY.

Acquisitions received during March, 1975; ...during April, 1975.

223 Natural History Bldg., Urbana, IL 61801

UNIVERSITY OF MINNESOTA LIBRARIES. O.MEREDITH WILSON LIBRARY. MAP DIVISION.

Current Announcements & Selected New Acquisitions of the Map Division, April 1975, Vol. 3, No. 1.

Map Librarian Mai Treude laments in this issue: "Current Announcements will never be the same. Its enthusiastic caretaker and editor has left us to join the Newberry Library in Chicago. Therefore, no Pat Moore -- no March issue -- and who knows about future Current Announcements!"

S76, O. Meredith Wilson Library, Minneapolis, MN 55455

UNIVERSITY OF OREGON LIBRARY.

Map Room Missive/Selected New Atlases and Maps, Number 12, July to December, 1974. May 1975.

165 Condon Hall, University of Oregon, Eugene, OR 97403

UNIVERSITY OF SOUTH CAROLINA. DEPARTMENT OF GEOGRAPHY. MAP DEPOSITORY.

Recent Accessions: Jan.-Feb.-March 1975, No. 3. Items 477 thru 733.

David C. McQuillan, Map Curator, Dept. Geography, USC, Columbia, SC 29208

Reviews — Books & Atlases

25

MAP LIBRARIANSHIP: READINGS, compiled by Roman Drazniowsky, Map Curator, American Geographical Society. Metuchen, NJ, Scarecrow Press, 1975. 556pp. illus. \$20. LC# 74-19244 ISBN 0-8108-0739-4 Z692.M3D73 CIP

Each of the forty-eight "readings" in this compilation are reprinted from other sources; i.e., from thirteen journals: seven American, three British, two Canadian, and one German. More than 35% of the articles (17 items) are from the Bulletin of the Geography and Map Division, Special Libraries Association. Another large selection (18.7%, or 9 items) are from Special Libraries.

An extensive bibliography, 18 pages with 214 entries, cites additional readings. These citations are grouped together, chapter by chapter, and cover each of the major topics selected by the compiler; i.e., Introduction to Maps, Elements of Maps, Map Classification and Use, Map Bibliographies/Acquisitions, Map Processing and Cataloging, Map Storage and Preservation, and Map Librarianship/Map Collections.

Just about every aspect of the work of the map librarian is covered by the selection of articles in this compilation, although some topics are only mentioned in-passing by the individual authors; e.g., the importance of aerial photographs to the map collection (and their handling), the importance of finding aids, gazetteers, carto-bibliographies, travel guides, etc. Nor is there to be found an article stressing the need to collect variant editions of older topographic maps. The compiler cannot be faulted for these omissions, however, if articles covering these topics have not been published. Furthermore, every compiler/author is limited by a cut-off date. Much important new information has been published since 1972, the most recent date of any of the reprinted articles; e.g., Peter Water's article in this issue of the Information Bulletin re: "Deacidification, lamination, and the use of polyester film encapsulation"; and, Peter T. Johnson's "Sources and methods to Latin American flat map procurement", which appeared in Bulletin No. 95 (March 1974) of the Geography and Map Division, SLA.

A comparison of this work to a copy of Dr. Drazniowsky's course syllabus for 1970-71 [Map Resources and Map Librarianship (Columbia University, School of Library Service, LS K8207 x) which is held each Autumn Term, Sept. thru Dec.]) indicates that more than two-thirds of the articles in the present work appear in that syllabus. This means that Drazniowsky, obviously concerned that his students had no convenient readings-volume or course text available, created this volume with updated material and new selections that expanded his earlier recommendations. Fifteen of the items included here are new to his earlier syllabus; although some date from 1960, he has chosen new items that cover subjects of map librarianship that are essential to an understanding of the complexities of this field; e.g., "Maps, charts, and copyright", by Abraham L. Kaminstein; and, "Maps: their deterioration and preservation", by Richard Daniel Smith (an example of recent developments in preservation knowledge and techniques).

One fact should be noted for those who are cautious about purchasing books of reprints, there is some overlapping if the present work is compared to two earlier works. One of the present reprints appears in Kujoth's work, which is one of four in that work touching on map librarianship [Readings in Nonbook Librarianship, edited by Jean Spealman Kujoth, Scarecrow Press, 1968].

In 1971 SLA's Geography and Map Division published Recent Practices in Map Libraries. Of the six articles published therein, all of which appeared first in Special Libraries, five are reprinted here.

The principal use of the present work, I suggest, is designed for instructors and their students - precisely the origin of Drazniowsky's need. It is a convenient format for them.

However, it has its limitations for the sophisticated map librarian. If one is looking for a specific topic, a search of each article is required. The index is somewhat too limited; e.g., if one is looking for map folders, and other types of equipment for the map library, the index offers no assistance. The searcher cannot go directly from the index to the required information.

All things considered, Drazniowsky's Map Librarianship: Readings must be included among the few important books on our profession. It is to his credit that he put it together. It will, no doubt, remain a classic tool for generations of instructors in map librarianship.

Stanley Stevens



New Titles, BRIEFLY NOTED

by

Edward P. Thatcher
Map Librarian
Univ. of Oregon, Eugene

1. Smith, Allen R. Connecticut, a thematic atlas. Atlas, P.O. Box 11493, Newington, CT 06111. 1974. 94 maps on 90pp. 27 x 35 cm. paper \$4.

A single page of text precedes each major section: physical landscape, climate, the state, SMSAs, farming and voting patterns. Most maps are at 1:500,000 and thus employ more paper than needed, or desirable. Maps of demographic factors are unfortunately separated by such as distribution of venomous snakes and museums, and others of little interest. The principal intent of some plates is unclear to me; lettering styles employed on maps are inconsistent. These and other uneven features are unfortunate costs of a self production. Not recommended, even at this low price.

2. Atlas of Mississippi, edited by R.D. Cross and R.W. Wales. Jackson, University Press of Mississippi, 1974. xii, 187pp. \$15.

Too few maps but a pleasing blend of color illustrations and abundant text on the physical environment, history, social institutions, natural resources, transportation, communications, manufacturing and the future. Three scales employed, without indication of magnitude. A pleasing variety of pie and bar charts. Does not lend the same pleasing unified impression as does the Atlas of Alabama, 1973.

3. Thompson, Derek & Joseph W. Wiedel, et al. An Economic and Social Atlas of Maryland. University of Maryland, Occasional Papers in Geography, Number 3. College Park, MD. 1974. iv,126pp. paper \$5.

Recommended as an urban area, urban subject atlas. Major subjects of this are those expected for an urban treatment. Cartographically bright and bold with enormous variety of symbols and colors used. Some symbols are too complex for quick appreciation and tones of some colors used for variable factors are indistinctly graded. A favorable purchase price.

4. Environmental atlas and multiuse management plan for south-central Louisiana. Center for Wetland Resources, Louisiana State University. Report 18, volume 2. Baton Rouge, 1973. 22 pl, 40 x 70cm. (folio) paper No price given, (\$7.50?).

The area, 5260 sq. miles of old Barataria and Terrebonne, and more, stretches along the Mississippi River from Empire to Donaldsonville. Scale of 1:400,000 throughout. This should be extremely useful as a contemporary coastal study; includes oyster culture, oil and gas fields and lines, urban land use, land management and local conflicts on its uses. Libraries whose patrons number friendly geographers using USGS sheets of the Miss. delta to teach geomorphology must have this. An attractive, simple, well-done job.



SACRED TEXT: A review of the Atlas of Jerusalem

by

Murray Baumgarten*

Jerusalem. Hebrew University. Dept. of Geography.

Atlas of Jerusalem. Berlin, W. de Gruyter [1973]

1 box ([8] p., 53 fold.sheets of col.maps) 54 cm.

At head of title: The Israel Academy of Sciences and Humanities.

The Israel Exploration Society.

English and Hebrew. Added t.p. [in Hebrew]

----- Urban geography of Jerusalem; a companion volume.

Editors: David H. K. Amiran, Arie Shaçhar, Israel Kimhi. Berlin, W. de Gruyter, 1973.

173 p. maps 29 cm. Laid in box.

The Atlas of Jerusalem comes in a box twenty-one inches long, fourteen and a half inches wide, and two inches deep. Along with a hundred and seventy page expository narrative volume, this handsome set includes ten map sets, accurately and brilliantly reproduced with remarkable care. The colors do not seep into each other; the maps are easily legible; and they present a spectacular wealth of information ranging from the eight town plans developed for Jerusalem from 1918 through 1968, to the history of the city from pre-Davidic times to our own, with other sections devoted to the region of Israel in which Jeru-

* EDITOR'S NOTE: Professor Baumgarten is affiliated with Stevenson College, University of California at Santa Cruz. He teaches literature and Judaic studies, and in July 1975 assumes the post of Director, Study Center of the University of California in Jerusalem.

Jerusalem is located, its quarters and streets, urban structure, land use, public institutions, transportation, population, and changes since 1967 when the city was re-united.

The atlas expresses the devotion with which secular Israeli culture regards the Holy City, thereby reflecting its central place in Jewish tradition. Modern computer techniques have been brought to bear and, in the service of an almost religious vision, have made it possible for a group of distinguished Israeli scholars to articulate on paper the ways in which mere factual detail about Jerusalem takes on a special meaning. This Atlas is both a remarkable scholarly enterprise and a crucial reference work; it also takes its place as a holy book comparable to the Jerusalem Bible. Its editors have realized that the topography of Jerusalem expresses some of the profoundest cultural values of Christian, Islamic and above all Jewish life and have been able, by allowing the material to speak for itself, to create an atlas as in effect a sacred text.

My remarks will be obvious to anyone who merely glances at Section 2, Quarters and Streets, or 3, History, which present in loving detail the Jerusalem whose multiple cultural levels present a veritable history of humankind from 1,000 BCE to our own time--that is to be expected--but the same purpose is at work in such a statistically-bound subject as those presented in Section 8, Population. Consider the first map of Section 8, Distribution of Population by Religion, 1944.

While the general population is grouped according to religion, with the Jews the majority of West--and Arabs the majority of East--Jerusalem, and Christians dominating the southwest, it is yet clear that all of the groups intermingled. Arabs and Christians lived in the western part of Jerusalem, Jews lived in the eastern and southwestern areas where the other groups dominated. The map is thus an eloquent testimony to the abilities of all three groups to live together. Even though there had been great disturbances, riots, and threatening behavior (notably in 1929-1930 and 1938-1939) the various groups by 1944 managed to accommodate to each other's presence and articulate a common *convivencia* as the Spaniards term the pluralistic society of Arabs, Jews, and Christians that functioned (with interruptions) for several hundred years in Spain until 1492 and the expulsion of the Jews. The Spanish word means literally a "living-together" and this is what map 8.1 of the Jerusalem Atlas points to in its demographic charting of the population distribution by religion in 1944, the first years for which significant data seems to have been available.

Another example is to be found in 4.2, Urban Structures--Building Materials, which portrays the different materials used in Jerusalem's buildings. Not only does this map graphically illustrate some of the history of construction in Jerusalem, it also explores some of the aesthetic aspects of the city. Visitors to Jerusalem are always struck by the special characteristics of the natural stone which is the dominant building material. Clearly, throughout the centuries, this local material has been readily available and thus provided a continuous architectural fabric for the city. Furthermore, one of its most startling qualities is its ability to reflect the sun's rays at sunset, when these stones glow pink and orange and red, producing an uncanny effect able to bring religion even to non-believers and infidels. Map 4.5, Type of Roof, displays the distribution of historic building styles and functions even more clearly, outlining the ways in which ecclesiastical buildings have clustered and yet are also found scattered throughout the city.

It is appropriate to note how maps 3.1 through 3.8 reveal the steady growth of the city from King David's time through the first century as it became increasingly one of the major cities of the Middle East. From the time of the Hasmoneans (second century before the common era) the city is regularized, showing increasing Hellenistic influence until, during the reign of Herod (early first century, common era), Jerusalem becomes a model of urban order and rationality. The eruption of the Romans into the Middle East and their conquest of the city in the second century, when they razed it and re-named it Aelia Capitolina (banishing all Jews from within the city walls) reveals the sterility brought by Roman order, as the city shrank to a fourth of the size it had been before the legionnaires did their cruel work. Jerusalem did not regain its previous size and importance until the twentieth century, as the maps 3.9 - 3.14 detailing its history reveal, thereby graphically illustrating the shift in importance that began with the Roman conquest of the city and continued under its subsequent history under Byzantine, Arab, Crusader, Mameluke, and Ottoman rulers - only to be dramatically reversed by the explosion of energy of modern Israeli life.

This Atlas is a monumental work for which its editors deserve our special thanks. It is a veritable feast. To the eyes of this beholder, it would be appropriate to designate a small room in any map collection the Jerusalem room and display these marvellous maps on its walls. That would surely be a holy room indeed, encompassing as it would the whole experience of this unique city, and thereby providing a rare treat for the eye and mind.



[Continued from p.21]

[Attendance List, Vancouver]

Betty Kidd	National Map Collection, PAC	WAML-ACML
Mary Larsgaard	Central Washington State College	WAML-ACML
Catherine E. Lee	Vancouver, B.C.	B.C.G.S.
Beatrice Lukens	University of California, Berkeley	WAML
Richard Malinski	Simon Fraser University	ACML
Alice Marwood	Richmond, B.C.	B.C.G.S.
Dorothy Mewshaw	Los Angeles Public Library	WAML
Lynn Ogden	Vancouver City Archives	-
Don F. Pearson	Surveys & Mapping Branch, Victoria	-
Brian Phillips	Simon Fraser University	WAML-ACML
Ann Piternick	University of British Columbia, School of Librarianship	-
Walter Reuben	Tejas Galleries, Austin, Texas	WAML
Lewis Robinson	University of British Columbia	-
Janet Rudd	University of California, Berkeley	WAML
R. W. Sandilands	Department of Environment, Victoria	-
Pam Shields	Vancouver, B.C.	B.C.G.S.
John D. Spittle	North Vancouver, B.C.	-
Stanley Stevens	University of California, Santa Cruz	WAML-ACML
Ed Thatcher	University of Oregon	WAML
Dan Turbeville	Western Washington State	WAML
M.A. Brian Turnbull	University of Victoria	WAML-ACML
Coolie Verner	University of British Columbia	-
Ronald Whistance-Smith	University of Alberta	ACML
Nora Williams	University of British Columbia	-
Frances Woodward	University of British Columbia	WAML-ACML

by Mary Blakeley

ARIZONA

American Geographic, Inc.

Map of metropolitan Tucson with all of Pima County. Fenton, Mich., 1975.
1:21,120

Arizona Oil and Gas Conservation Commission

State of Arizona energy distribution systems map. Prepared by J. R. Scurlock. Phoenix, Ariz., 1973. 1:1,000,000

Arizona State Highway Dept. Photogrammetry and Mapping Division.

General highway map, State of Arizona. Prepared in cooperation with United States Department of Transportation, Federal Highway Administration. Phoenix, Ariz., 1974. 1:500,000 \$3.00

Dyer, C. J.

Bird's eye view of Phoenix, Maricopa Co., Arizona; view looking northeast. Phoenix, 1885. [Washington, Library of Congress Photoduplication Service, 1974]

Gelderman, Frederick W.

Soil survey of the Tucson-Avra Valley area. [Washington, U.S. Soil Conservation Service; for sale by the Supt. of Docs., U.S. Govt. Print. Off. 1972]

Pinal County, Arizona. County Engineer.

Map of Pinal County, Arizona. Blue line print. Florence, Ariz., 1974.
1:130,000

U.S. Geological Survey.

Arizona satellite image map. Prepared and published by the U.S. Geological Survey in cooperation with National Aeronautics and Space Administration (ERTS-1, Proposal SR 211) Denver, Colorado, U.S.G.S. 1:500,000 \$1.75

U.S. Geological Survey.

Folio of the Phoenix area, Arizona. Reston, Va., 1973-1974. 1:250,000 (Miscellaneous geologic investigations [series]):

Map I-845-F Chemical quality of ground water for public supply in the Phoenix area, Arizona.

Map I-845-G Dissolved-solids content of ground water in the Phoenix area, Arizona.

Map I-845-H Land subsidence and earth fissures in alluvial deposits in the Phoenix area, Arizona.

Map I-845-I Vegetation in the Phoenix area, Arizona.

U.S. Geological Survey.

Folio of the Tucson area, Arizona. Reston, VA., 1973-1974. 1:250,000 (Miscellaneous geologic investigations [series]):

Map I-844-H Map showing vegetation in the Tucson area, Arizona.

Map I-844-I Dissolved-solids content of ground water in the Tucson area, Arizona.

Map I-844-J Nonmetallic mineral deposits in the Tucson area, Arizona.

Map I-844-K Ground-water velocities in the uppermost saturated alluvial deposits of the Tucson area, Arizona.

Map I-844-L Chemical quality of ground water for public supply in the Tucson area, Arizona.

U.S. Soil Conservation Service.

General soil map, Mohave County, Arizona. Prepared by the U.S. Department of Agriculture, Soil Conservation Service, in cooperation with the Natural Resources Conservation Districts in Mohave County, by D. L. Richmond and M. L. Richardson. Portland, Oregon, 1974. 1:600,000

The Marine Exchange of the San Francisco Bay Region recently published the third Golden Gate Atlas, a completely new version of the 1971 reference.

This 97-page atlas is the only complete maritime and world trade publication of its kind. 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 all government and commercial services involved in world commerce, details ship anchorages, lists ocean routes, and has a cross-indexed shipowners and agencies directory. This is the only source where all this information can be found in one publication.

Copies of the Golden Gate Atlas are available from the Marine Exchange, 303 World Trade Center, San Francisco, CA 94111. A special net price for libraries of \$2.00 is available (post-paid; which is a 70¢ reduction from the regular price.) (Phone: (415) 982-7788)

U.S. Geological Survey is making available to the public 1973 and 1974 color aerial photography of flat land areas around San Francisco Bay including an area from Oakland and San Francisco to San Jose and Hollister, Livermore and San Ramon Valley, Monterey Bay region, Napa Valley, Sacramento Delta, Suisun and San Pablo Bay, Santa Rosa to Cloverdale, and coastal areas from Monterey to Point Arena. Most of the photography is at 1:20,000 scale and some is at 1:36,000. An index map showing the location of each photo as well as negatives from which color prints can be ordered are on file at Keith Cole Photography, 604 Price Street, Redwood City, CA 94063, tel. (415)369-7383. Please note that these photographs are not available through U.S.G.S. but only are available through the above firm.

"Geology of the San Francisco North Quadrangle, California", by Julius Schlocker has been recently released. Number 782 in the U.S.G.S. Professional Paper series, this 109 page paper discusses in detail the geology of the northern half of the San Francisco County and the extreme southeastern tip of the Marin Peninsula. Several maps accompany the report. \$4.80

Tommy Thompson, owner of the Map Centre, 2611 University Ave., San Diego, CA 92104 (714) 291-3830, now has in stock topographic maps of Mexico (1:50,000 CETENAL) covering Baja California Norte. Some sheets are final printed editions while others are black and white advance copies. For those of you that would prefer dealing with someone other than the Mexican government agency, the Map Centre is offering the final editions @ \$2.00 each; ask for quote on advance copies. Indexes and other information offered free.

PUBLICATIONS OF RELEVANCE

Contributors: AB = Anna Blustein - University of California, Los Angeles
 EP = The Editor, via Publisher, or item in hand
 LC = Larry Cruse, University of California, San Diego
 SJ = Sheila Johnson, Map Librarian, Texas A&M University

BARKER, HAROLD J.

Mapping digest for New Jersey, by Harold J. Barker, Jr. [2d ed.] Trenton, State of New Jersey, Bureau of Geology and Topography, 1965.

vii, 65 p. fold.map (in pocket) 23 cm. (New Jersey Geological Survey.

AB Bulletin 66) On cover: New Jersey Geodetic Control Survey. "List of air survey firms" (1 p.) in pocket. "List of official New Jersey, New York City, and Philadelphia sales agents for United States Coast and Geodetic Survey charts of coastal waters (2 p.) in pocket. LC 67-65911 MARC

BELISLE, HAROLD J. and RON JOSSELET.

An analysis of Texas waterways. Austin, Texas Parks and Wildlife Dept. (1975) 240 pp. Free (1 copy per request) Address: Texas Parks and Wildlife, John H. Reagan Building, Austin, TX 78701. "An attempt has been

SJ made to cover all of the rivers, streams, and bayous in the State of Texas that are capable of supporting normal waterway recreational activities, such as canoeing, kayaking, and rafting." The detailed text is accompanied by many maps.

BLAIR, CALVIN L.

The American landscape, map and air photo interpretation / C. L. Blair,

AB B. V. Gutsell [and] L. M. Sebert. -- New York : McGraw-Hill, 1974.
 [ii], 62 p. : ill. (some col.), maps (some col.); 32 cm.

BODECHTEL, JOHANN

The earth from space / Johann Bodechtel and Hans-Gunter Gierloff-Emden.
 -- Translated by Hildegard Mayhew and Lotte Evans. -- New York : Arco

AB Publishing Co, 1974.

176 p. : ill. (some col.), maps (some col.) ; 31 cm. Translation of *Weltraumbilder der Erde*.

THE BLATHWAYT ATLAS

Edited by Jeannette D. Black, this limited edition facsimile atlas (500 cop.) contains 48 maps, unbound and folded to uniform size, in hinged buckram folder, 15 1/4 x 24 3/4 x 2 inches. Volume I: The Maps. Volume II: Commentary, by Jeannette D. Black. xx, 244 pp., 7 x 10 inches, index. Vol. I: \$500. Vol. II: \$25. Brown University Press, 1975. Box 1881, Providence, Rhode Island 02912

EP Brought together in the 17th C. for the use of the Lords of Trade and Plantations, the Blathwayt collection of manuscript and printed maps has been called the first atlas of the British Empire. It is now in the John Carter Brown Library, and this facsimile is prepared by Miss Black, for many years the Curator of Maps. 33 of the maps are of areas in North America or the West Indies, eight are of South American territories, three are of Africa, and there is one each of Bermuda, Bombay, North and South America, and the World. Maps are by John Thornton, Robert Morden & William Berry, John Seller, William Fisher, Nicolas Sanson, Joann Jansson, et al.

CALIFORNIA. DEPT. OF TRANSPORTATION.

- California city and unincorporated place names, A to Z; July 1, 1973 /
 AB State of California, Business and Transportation Agency, Dept. of Transportation. -- [Revised ed.] -- [Sacramento] : 1973.
 ca. 150 p. Earlier eds. by California Division of Highways.

CALIFORNIA. DIVISION OF MINES AND GEOLOGY.

- Fault Hazard Zones in California; Alquist-Priolo Geologic Hazard Zones
 EP Act of 1972 with Index to Special Studies Zones Maps. February 1975.
 Special Publication 42, Revised Edition, March 7, 1975. by Earl W. Hart.
 \$1.00 Publications Sales, P.O. Box 2980, Sacramento, CA 95812

CALIFORNIA. UNIVERSITY. BERKELEY. BANCROFT LIBRARY.

- Catalog of Manuscript and Printed Maps in the Bancroft Library (A supplement to Index of Printed Maps). Boston, G.K. Hall, 1975. 1 vol. \$75.00
 EP This supplement contains the 14,000 maps, 200 atlases and 1,000 maps in books added to the map catalog since publication of the Index in 1964, most of which has been done by WAML's Phil Hoehn, Map Librarian at Bancroft.

CANADA. PUBLIC ARCHIVES. NATIONAL MAP COLLECTION.

- Catalogue of the Canadian Section. Boston, G.K. Hall, 1975?
 EP To be published late 1975, early 1976, in 16 volumes. Pre-pub. price, U.S. and Canada: \$990.; elsewhere: \$1,089. After January 31, 1976: U.S. and Canada, \$1,250.; elsewhere: \$1,375. Prices do not include ship. & hand.

CENTER FOR CALIFORNIA PUBLIC AFFAIRS

- California legislative and Congressional Districts for 1974-1980; Official
 LC maps, descriptions and statistics. Claremont, Center for California Public Affairs, 1974. \$6.50 226 W. Foothill Blvd., Claremont, CA 91711

CHEVRIER, EMILE D.

- Topographic map and air photo interpretation [by] Emile D. Chevrier and
 AB D. F. W. Aitkens. Toronto, Macmillan Co. of Canada [c1970]
 184 p. illus., (part col.), maps (part col.) 31 cm. \$6.50 MARC 72-176686

COMMISSION OF THE EUROPEAN COMMUNITIES. DIRECTORATE GENERAL OF INFORMATION.

- The European Community in Maps. 1974 ed. \$.75¢ from Office for Official Publications of the European Communities, Case Postale 1003, Luxembourg 1.
 LC List of maps: 1. Regions and Administrative Units; 2. Population distribution and conurbations; 3. Land use and agriculture; 4. Coal and electrical energy (except Nuclear); 5. Nuclear industry; 6. Oil and natural gas; 7. Working population in the agricultural, industrial and tertiary sectors; 8. Metal, chemical and textile industries; 9. Inland waterways & seaports; 10. Railways and sea links; 11. Motorways, main roads and tourist traffic; 12. aviation; 13. The Community in the World; 14. External trade of the European Community.

CONFERENCE OF SOUTHERN AFRICAN SURVEYORS. 5TH, UNIVERSITY OF RHODESIA, 1974.

- [Papers of the] Fifth Conference of Southern African Surveyors, Salisbury, Rhodesia, 3 February - 9 February 1974. [Salisbury, 1974]
 AB 2 v. (loose-leaf) illus., maps. At head of title: CONSAS 74. Sponsored by the Rhodesian Institute of Surveyors. M.O. Collins, chairman.

FELZER, RON.

- Devils Postpile, by Ron Felzer, with the editors of Wilderness Press, Thomas Winnett, editor-in-chief. Drawings by Lucille Winnett. Berkeley, AB [Calif.] Wilderness Press [1971]
86 p. illus., maps (1 fold. col. in pocket) 16 cm. (High Sierra hiking guide #6) \$1.95 MARC 76-141989

FELZER, RON.

- Hetch Hetchy, by Ron Felzer. With the editors of Wilderness Press, Thomas Winnett, editor-in-chief. Photos by the author, except as noted. Berkeley [Calif.] Wilderness Press [1973]
AB 85 p. illus. (part fold.) 16 cm. (High Sierra hiking guide 12) \$1.95
MARC 72-89914

FELZER, RON.

- Mineral King, by Ron Felzer, with the editors of Wilderness Press. Thomas Winnett, editor-in-chief. Drawings by Marian Mayeda. Berkeley [Calif.] AB Wilderness Press [1972] MARC 70-186759
ix, 86 p. illus. 16 cm. (High Sierra hiking guide, 8) \$1.95

INTERNATIONAL DICTIONARY OF AIDS TO MARINE NAVIGATION.

- 1st ed. -- Paris : International Association of Lighthouse Authorities, 1970-
AB v. : ill. ; 30 cm. Each chapter is published in a separate booklet, one for each language (English, French, German, etc.) On cover: AISM-IALA. 9 chapters to be published, UCLA Map Library only has 3 thus far (Apr. 75).

JENKINS, JIM C.

- Kern Peak-Olancho, by J. C. Jenkins and John W. Robinson, with the editors of Wilderness Press, Thomas Winnett, editor-in-chief. Photos by the authors. Berkeley, Wilderness Press [1974] MARC 73-93008
AB 90 p. illus., maps (1 fold. in pocket) 16 cm. (High Sierra hiking guide no. 13) \$2.95

JOHNSTON'S GAZETTEER OF SCOTLAND.

- ..., including a glossary of the most common Gaelic names. -- 3d ed. /
AB Revision by R. W. Munro. -- Edinburgh : Johnston & Bacon, 1973.
x, 353 p. Second ed., 1958, by W. and A. K. Johnston and G. W. Bacon, ltd.

KELSAY, LAURA E.

- Cartographic records in the National Archives of the United States relating to American Indians. Reference Information Paper No. 71, National EP Archives and Records Service, Washington, DC, 1974.
vi, 36 pp. Prepared by the Cartographic Archives Division. *free*

KEUNING, J.

- Willem Jansz. Blaeu. A biography and history of his work as a cartographer and publisher. By J. Keuning. Rev. and ed. by Marijke Donkersloot- AB De Vrij. Amsterdam, Theatrum Orbis Terrarum, [1973]
xi, 164 p. with illus. 23 cm. f136.00 MARC 74-152925

LYNAM, EDWARD, 1886-1950.

- The Carta marina of Olaus Magnus, Venice 1539 & Rome 1572. Jenkintown [Pa.] AB Tall Tree Library, 1949. (Tall Tree Library publication 12)
40 p. illus., maps (some fold.) 26 cm.

MAY, BETTY.

- County atlases of Canada; a descriptive catalogue. Atlas de comtes canadiens; catalogue descriptif, compiled by Betty May. Assisted by Frank McGuire [and] Heather Maddick. [Ottawa] National Map Collection, Public Archives of Canada, 1970. MARC 75-854526
 AB xii, 192 p. illus., maps. 28 cm. Introduction in English and French.

NEVADA. DEPT. OF HIGHWAYS. CARTOGRAPHIC SECTION.

- Directory of geographic names / State of Nevada, Dept. of Highways, Planning Survey Division, Cartographic Section; in cooperation with U.S. Dept. of Transportation, Federal Highway Administration. -- 1st ed. -- [Carson City], 1971.
 AB 192 p. : 3 fold. col. maps (in pocket) "Nevada county map index and price list" also in pocket.

PIERCE, BOB.

- Marion Peak, by Bob and Margaret Pierce, with the editors of Wilderness Press. Thomas Winnett, editor-in-chief. Berkeley, Wilderness Press, [1972]
 AB ix, 86 p. illus., map (fold. col. in pocket) 16 cm. (High Sierra hiking guide, no. 9) \$1.95 MARC 78-186761

PIERCE, BOB.

- Merced Peak, by Bob and Margaret Pierce. With the editors of Wilderness Press, Thomas Winnett, editor-in-chief. Photos. by the author, except as noted. Berkeley [Calif.] Wilderness Press [1973] MARC 72-89915
 AB 86 p. illus., fold. col. map. 16 cm. (High Sierra hiking guide, 11)

POST, JOYCE A.

- A consolidated name index to the Hexamer General Surveys. Philadelphia, 1974. vii, 114 pp. LC 74-193190 \$100. Available from the compiler: 4613 Larchwood Avenue, Philadelphia, PA 19143

The Hexamer General Surveys have been microfilmed. for information on their availability, communicate with the Free Library of Philadelphia, Logan Square, Philadelphia, PA 19103.

- EP The Surveys were prepared by Ernest Hexamer between 1866 and 1895 and consists of, as near as can be determined, 2855 numbered plates depicting various industrial and commercial properties in Philadelphia and immediately adjacent areas, and Erie, Lewisburg and Steelton in Pennsylvania, Gloucester County in New Jersey and Richmond, Virginia.

These Surveys, derived from the earlier Hexamer and Locher fire insurance atlases of Philadelphia, concentrate on a single property, rather than a block or several square blocks. A brief statement of business activities on the premises is also included, names of owners, tenants, operators and number of employees (including boys and girls and women). Supplementing the diagram is a colored view of the building(s).

PROWSE, GEORGE ROBERT FARRAR, 1860-

- Sebastian Cabot lied; extract from [the author's] Cartological material, vol. III: Names. Winnipeg, 1942.
 AB xxviii p. illus. 36 cm. Reproduced from typewritten copy.
 UCLA Map Library [Call Number] E 129 C1P94

RENDER, J.

Map preparation: some guidance on fundamentals. 1973. Reprinted 1974. 57 pp. illus. 30p Portsmouth, England, Society of University Cartographers, 1973.

This is an instruction booklet compiled from a series of articles which appeared in the Society of University Cartographers Bulletin, Summer 1970, Winter 1970/1971 and Summer 1971. It introduces the reader to some basic techniques in cartography and includes descriptive chapters on linework, symbols and compilation and plotting. There are fifteen figures in the text and three detailed appendices; with a colored card cover and a half-tone double page spread showing a selection of drawing instruments.

- EP The booklet is available for purchase (plus postage) at the following prices: single copies 30p each, 25-49 copies 29p each, 50-99 copies 27p, and 100+ copies 24p each. Due to variations in postal charges, prices for bulk overseas purchases will be given on application. Order from: Mr. G.K. Kingdon, Department of Geography, Portsmouth Polytechnic, Lion Terrace, Portsmouth, PO1 3HE, England. Please note that all orders must be pre-paid. Checks to be made payable to the Society of University Cartographers.

ROBINSON, JOHN W.

Mt. Goddard, by John W. Robinson, with the editors of the Wilderness Press. Thomas Winnett, editor-in-chief. Photos. by the author except as noted.

- AB Berkeley [Calif.] Wilderness Press [1973] MARC 72-89912
86 p. illus. 15 cm. (High Sierra hiking guide no. 10) \$1.95

SAN DIEGO COUNTY PLANNING DEPARTMENT.

1970 Census, subregional ar-a data-tables and computer maps. 1972. 49 p. *free* San Diego County Comprehensive Planning Organization, County Administrative Center, 1600 Pacific Coast Highway, San Diego, CA 92101.

- LC This report provides 1970 census tables for the 42 subregional areas within San Diego County. Two additional tables are included which present the population change between 1960 and 1970 for the subregional areas and the California counties. Selected data items from each table are displayed using five different computer mapping techniques. A brief description explains each of the mapping techniques.

SHELLEY, MICHAEL H.

Ward maps of United States cities; a selective checklist of pre-1900 maps in the Library of Congress. Compiled by Michael H. Shelley, Geography and Map Division, Library of Congress. Washington, DC, U.S. Government Printing Office, 1975. MARC 74-23316 CIP

- EP "Genealogical research is facilitated by the use of a ward map to identify the ward in which a particular street address was located when a given census was taken; this obviates the necessity for a time-consuming search of the census records for the entire city. This selective checklist of maps illustrates the evolution of city wards in certain United States cities from 1790 through 1899." The following cities, within WAML's principal region, are included: Denver, and San Francisco.

SMET, ANTOINE DE, 1909-

Album Antoine De Smet. Bruxelles, Centre National d'Histoire des Sciences, 1974. xxiii, 526 p. illus., maps, port. (Centre National d'Histoire de Sci-

- AB ences. Publications, 4). Collected essays of the author. Dutch, English, French.

TIDE AND WATER LEVEL BENCH MARKS.

Tide and water level bench marks / Descriptions, locations, elevations and heights referred to the datum of Canadian Hydrographic Service charts. -- Ottawa, Dept. of Energy, Mines and Resources, 1968.

7 v. : ill. "Compiled by the staff of the Predictions and Publications Unit of the Tides and Water Levels Section."

CONTENTS: v. 1: Atlantic Coast and Bay of Fundy. --v. 2: Gulf of St. Lawrence. --v. 3: St. Lawrence and Saguenay rivers. --v. 4: Arctic and Hudson Bay. --v. 5: Juan de Fuca and Georgia straits. --v. 6: Barkley Sound and

AB Discovery Passage to Dixon Entrance. --v. 7: Great Lakes and St. Lawrence River (non-tidal).

UNESCO

UNESCO/Geological Institute of Dionyz Stur (GUDS), Bratislava.

EP Tectonic map of the Carpathian-Balkan Mountain system and adjacent areas @ 1:1,000,000. 1974? Ten sheets, \$66.00

UNIPUB, Box 433, Murray Hill Station, New York, NY 10016

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

British Solomon Islands Protectorate and Gilbert and Ellice Islands Colony, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington, DC, 1974.

AB vi, 202 p. : maps ; 22 x 28 cm. (Official standard names gazetteer)
Supersedes names in all previous Board lists for the areas concerned.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

Republic of China, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

AB ix, 789 p. : map ; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous Board lists for the area.

1. Taiwan - Gazetteers. 2. Quemoy - Gazetteers.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

Fiji, Tonga, and Nauru, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

AB vi, 231 p. : maps; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous Board lists for the areas concerned.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

French Guiana, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

AB v. 62 p. : map ; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous Board lists for the area.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

New Caledonia and dependencies and Wallis and Futuna, official standard names approved by the United States Board on Geographic Names / prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

AB v. 100 p. : maps ; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous Board lists for the area.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

New Hebrides, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

- AB v. 76 p. : map ; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous board lists for the area.

U.S. DEFENSE MAPPING AGENCY. TOPOGRAPHIC CENTER.

Surinam, official standard names approved by the United States Board on Geographic Names / Prepared by the Defense Mapping Agency Topographic Center. -- Washington : 1974.

- AB iv, 65 p. : map ; 22 x 28 cm. -- (Official standard names gazetteer)
Supersedes names in all previous Board lists for the area.

UNITED STATES. DEPT. OF THE ARMY.

Universal transverse Mercator grid tables for latitudes 0°-80°, Bessel spheroid (meters) / Headquarters, Department of the Army. -- Washington : 1958-

- AB v. : fold. maps. -- (Its Technical manual ; TM 5-241-5/1)
CONTENTS: v. 1. Transformation of coordinates from geographic to grid.

UNITED STATES. DEPT. OF THE ARMY.

Universal transverse Mercator grid tables for latitudes 0°-80°, Clarke 1880 spheroid (meters) / Headquarters, Department of the Army. -- Washington : 1958-

- AB v. : fold. maps. -- (Its Technical manual ; TM 5-241-6/1)
CONTENTS: v. 1. Transformation of coordinates from geographic to grid.

U.S. FOREST SERVICE.

Rehabilitation potentials and limitations of surface-mined land in the northern Great Plains. 1974. General Technical Report INT-14. 44 p. pamphlet. Includes two 1:1M planimetric maps inside back cover: "Major eco-systems and surface rehabilitation factors", and "Rehabilitation response units".

- LC Available from: U.S. Forest Service, Forest and Range Experiment Station, 507 25th Street, Ogden, UT 84401

U.S. GEOLOGICAL SURVEY. TOPOGRAPHIC DIVISION.

Topographic instructions of the United States Geological Survey. [Rev. ed.] Washington, 1951-

5 v. (loose-leaf) illus. "Describes the standards, methods, and procedures used by the ... Division in producing topographic quadrangle maps."

- AB Parts and chapters are issued in loose-leaf or pamphlet editions which are kept up-to-date with revision.

U.S. GEOLOGICAL SURVEY.

Worldwide directory of national earth-science agencies. Geological

- LC Survey Circular 716. 1975.

U.S. GEOLOGICAL SURVEY. WATER RESOURCES DIVISION, CALIFORNIA DISTRICT OFFICE.

Index of flood maps for California prepared by the U.S. Geological Survey through 1974. Open File Report, by J. R. Crippen. Menlo Park, CA, USGS, March 1975. 29 pp. free 855 Oak Grove Avenue, Menlo Park, CA 94025

- EP The maps are listed alphabetically for the entire state as well as by County - by quadrangle name.

UNITED STATES. LIBRARY OF CONGRESS. GEOGRAPHY AND MAP DIVISION.

- Panoramic maps of Anglo-American cities; a checklist of maps in the collections of the Library of Congress, Geography and Map Division. Compiled by John R. Hébert. Washington, Library of Congress; [for sale by the Supt. of Docs., U.S. Govt. Print. Off.] 1974.
 AB v, 118 p. illus. 23 x 29 cm. MARC 73-18312

U.S. NATIONAL OCEAN SURVEY

- List of frequently used federal government World, United States and historical maps. April 1975. Compiled by Physical Science Services Branch, Scientific Services Division. 7th ed.
free NOS, Phy. Sci. Serv. Br. (C513), Rockville, MD 20852
- EP A list of inexpensive maps from seven federal agencies. Prices and ordering information given.

VAN DE GOHM, RICHARD.

- Antique maps for the collector. New York, Macmillan Co., 1973. c1972.
 EP 160 pp. 24 cm. LC 72-91999 illus., some col. maps. \$7.95

WILDERNESS PRESS

- Matterhorn Peak, by the editors of Wilderness Press, Thomas Winnett, Editor-in-chief. Drawings by Lucille Winnett. Berkeley, Wilderness Press, [1971]-
 AB 85 p. illus., fold.col. map (in pocket) 16 cm. (High Sierra hiking guide no. 7) \$1.95 MARC 72-141988

THE NEWBERRY LIBRARY RECEIVES A GRANT

According to AB Bookman's Weekly, April 21, 1975 (p.1869) the National Endowment for the Humanities has awarded a grant of up to \$130,000 to the Newberry Library and eight midwestern historical societies to prepare a catalogue of approximately 14,500 maps and atlases of the Middle West printed before 1900. The two-year project, which began on February 1, 1975, is directed by Dr. David Woodward, Program Director of the Hermon Dunlap Smith Center for the History of Cartography at the Library. Project Coordinator is Robert W. Karrow, Jr., Curator of Maps, The Newberry Library, Chicago.

In addition to The Newberry Library, the following institutions are involved: Chicago Historical Society, Illinois State Historical Society, Indiana Historical Society, State Historical Society of Iowa, Michigan State Archives, Minnesota Historical Society, Ohio State Historical Society, and the State Historical Society of Wisconsin.

Each state historical agency is responsible for compiling a complete card catalogue of maps and atlases of their respective state printed before 1900. These include state, county and township maps and atlases as well as city plans. The Newberry Library is cataloguing the maps of the Great Lakes region as a whole. In addition to coordinating the project, the Newberry has compiled a manual of map cataloguing that it hopes to publish.

The project is intended to help raise the general level of professionalism in map cataloguing and curatorship in the Middle West, and to foster cooperation between the rich but underused collections of historical maps in the area. [Citation courtesy Phil Hoehn, The Bancroft Library, UC Berkeley.]

by

Lee Hubbard
Map Librarian
University of Washington Libraries
Seattle

The Moon's nearside, an area similar in size to North America, displays 17 impact craters over 200 miles in diameter and innumerable smaller ones. The major basins were formed by impacting planetesimals early in the Moon's history; other planetesimals have been gradually broken up into smaller and smaller asteroids which mostly now orbit in a belt between Mars and Jupiter. Studies of meteorites suggest that the iron ones are derived from not over 11 planetesimals; the more common chondritic ones, from six. Some 42,000 asteroids over a mile in diameter are still in orbit, but only a dozen are as large as the undifferentiated 62 to 124 mile one which produced the Imbrium basin on the Moon.

If so many chunks of rock and nickel-iron have hit the Moon, surely more have hit the Earth, which has a land surface area 4 times as great. The famous Meteor Crater in Arizona, produced by a 200-foot meteorite less than 30,000 years ago, is only 3/4 of a mile across. Where are the scars of the bigger impacts on Earth?

Through 1968, geologists and astronomers looking for impact structures had found 127 possibilities. Subsequently satellite photos have suggested dozens more. Most, however, look nothing like Meteor Crater. They are more likely to resemble one I visited last summer, the Sierra Madera structure in West Texas. The main feature visible there today is a thousand foot central peak, produced by rock rebounding after an asteroid impact in the late Cretaceous or early Tertiary, around 65 million years ago. The original crater was some 8 miles across, and traces of its largely worn-away synclinal structure still show up as a low rim-like circular feature. The shock waves from the impact produced large amounts of breccia, deformed quartz grains, and left many shatter cones whose orientation indicates shock waves originating above rather than below the surface. It is this mechanical evidence which is the basis for accepting an impact origin for the Sierra Madera structure. In a few other structures such evidence is supplemented by high pressure and high temperature minerals which could be produced only by the immense shock created by an impacting asteroid.

The most spectacular shatter-coned structure found so far is the Vredefort Ring in South Africa, where 1.97 billion years ago an asteroid a mile or more in diameter punched a hole 30 miles wide and 10 miles deep, the surrounding rocks peeled back, and a plug of the underlying granite rose to the surface, surrounded by a synclinal ring 130 miles across.

The largest structures in Canada for which substantial evidence of impact origin is available are Sudbury Basin in Ontario and Manicouagan Lake in Quebec. Sudbury Basin was formed 1.75 billion years ago when an asteroid some 2 to 3 miles in diameter blasted out a circular crater 30 miles across and 2 miles deep. Ore deposits around its margin supply 75% of the Western World's nickel.

* Presented May 8, 1975 to the joint meeting of the Western Association of Map Libraries and the Association of Canadian Map Libraries, Vancouver, B.C.

At Manicouagan a large central peak is surrounded by a synclinal ring 40 miles in diameter. Like a number of other large circular structures, Manicouagan has a major iron deposit outside its margin, where remnants of an asteroid exploding on impact would most likely be concentrated.

Good field evidence for an impact origin has been found at half a dozen other Canadian circular features, though some Canadian geologists refuse to accept an impact origin for any of them. Some other features have been so heavily eroded by Pleistocene and perhaps earlier erosion that an initial failure to find evidence on the surface is not decisive. One possible impact crater isn't even discernible on the surface--the Steen River structure in Alberta, a brecciated basin found 600 feet below the muskeg by oil drilling.

Our increasing knowledge of extraterrestrial geology helps explain why so few major impact craters have yet been found on Earth. We now have a geochemical chronology for the impact events which produced the 29 major lunar basins. The latest of these, which produced the Mare Orientale with scarps ranging from 224 to 904 miles in diameter, occurred not less than 3.8 billion years ago. Asteroids have continued to hit the Moon, but with a continual decrease in average size. Most post-maria lunar craters are still visible, but any terrestrial structures older than a few million years are likely to have been repeatedly eroded, buried beneath later deposits, or altered by terrestrial tectonic activity.

But even impact craters which are now greatly changed and deeply buried can show evidence of their existence--not proof, but still something worth speculating about in the light of what we know about extraterrestrial impact structures. Major lunar basins are underlain by deep breccia beds and surrounded by extensive zones of concentric and radial faults. On Earth, such impact features could be expected to leave long-term circular zones of crustal weakness, marked today by ancient basins, fault-block mountains, volcanoes, lava sheets, and intrusions of granitic and ultrabasic rocks from far below the surface.

The location of major iron, nickel, and chromite deposits adjoining such circular structures could also suggest extraterrestrial origin, although unfortunately the chemical composition of the commonest meteorites is similar to that of the mantle material from beneath the 30 miles or so of terrestrial crust. Like the lunar basins, the great sedimentary iron deposits on Earth date from relatively early in the history of our solar system. Irregardless of whether our ferrous ores came mostly from deep in the Earth or from space, if their present concentrations near the surface are due mainly to extraterrestrial impact we can derive the very practical information that such concentrations are not likely to form again.

There are many small circular or elliptical structures which might be of impact origin, such as Rankin Inlet, Sept-Iles, Pend Oreille Lake, or the Bahia Sebastian Vizcaino--to mention four that I haven't previously seen suggested. Larger structures in North America which are probably at least a half billion years old and look promising include: Gulf of Mexico (950 miles across); Hudson Bay Basin (640 miles); Great Basin (440); Nastapoka Islands Arc (295); Colorado Plateau (280); Columbia Plateau (275); Ouachita Basin (250 x 150); Athabaska Basin (250 x 130); Michigan Basin (230); Borden Peninsula (200); Gulf of St. Lawrence (180); Big Horn Basin (105); Adirondack Mountains (100);

Crazy Mountains Basin (50); Llano Uplift (50).

Some other structures do not appear to be as old, but could mark areas of crustal weakness: Idaho Batholith (215 miles); Puget Sound Basin (112); Mt. Stuart Batholith (28 x 19 miles).

The Columbia Plateau is superficially more similar to the lunar maria than is any other area in North America. Relief, tectonic, and gravity maps suggest a circular basin, 275 miles across, outlined by the radiating Precambrian formations near Spokane, the Jurassic Mt. Stuart Batholith, Mt. Rainier with its underlying Tertiary granitics, Mt. Hood, and the Triassic sub-crustal intrusives south of the John Day River. This boundary is paralleled internally by sections of the Columbia, Snake, Spokane, and John Day Rivers; and externally by radiating drainage and structure on the West and North and concentric drainage and structure on the East and South. The sequence of lava flows a mile or more thick which caps the basin is no older than the Miocene. (The lava flows in the lunar basins are up to 600 million years younger than the impact basins they fill.) The Paleozoic and Mesozoic strata exposed through mountain building in the southern part of the Columbia Plateau basin make it evident that many miles of deposits lie between the basalt cap and the basin basement. Until drilling reaches this basement there is little chance of finding definitive evidence for or against impact origin. There is one other intriguing bit of evidence, however. Right in the center of this basin, where a central peak would occur in a medium-size impact structure, the Columbia River makes a U-turn around the base of the Horse Heaven Hills and the gravity high for the basin is located here.

At first glance Puget Sound looks far from circular, but the western part has been modified by many thousands of feet of volcanic deposits that have poured into the basin from the growing Olympics. The intrusive bodies along the eastern margin of the basin, and the gravity map, do suggest an originally circular 112-mile structure. Near the center of this hypothesized structure lies an intrusion rising 3700 feet above the bottom of the glacial drift in Puget Sound, and a gravity high.

The Colorado Plateau is a more speculative structure. The ancient margins of its basin are marked by such prominent features as the Kaibab Plateau, the San Francisco Volcanic Field, the White Mountains, and the 1.5 billion year old Sangre de Cristo Range. Concentric with it and 180 miles further north is the Uinta Range whose ancestral mountain roots go back 2.3 billion years. A trench outlining the basin interior shows up particularly well on the aeromagnetic map of Colorado. To the east, west, southwest of the basin lie large Precambrian to Mesozoic iron deposits.

Outside North America there are many fascinating possibilities, such as the Aegean Basin, the spectacular Er Richat structure in Mauritania, and the great Australian basins with associated Precambrian sedimentary iron deposits.

A surprising variety of maps are useful for spotting suggestive patterns: plastic relief models, shaded relief maps, drainage maps, gravity maps, aeromagnetic maps, geologic maps, tectonic maps, earthquake maps, radiometric age maps, and satellite photos. Sometimes simplified small-scale maps show patterns obscured on more detailed maps. Crater hunting is a fascinating game, still in the forefront of expanding scientific knowledge, and it can lead its players as deeply as they want to go into current knowledge and speculation about the geography, geology, tectonics, petrology, physics, and chemistry of our solar system.

[EDITOR'S NOTE: Mr. Hubbard's talk was accompanied with numerous maps to illustrate the points he made. Obviously those could not be reproduced here, but Mr. Hubbard recommends the following maps and publications be consulted:]

Fourth Lunar Science Conference

1973 Argon selenochronology (Proceedings, 2:1889-1914)

France. Institut Géographique National

1952. Er Richat (1:80,000)

French, Bevan and Nicholas Short (eds.)

1968 Shock metamorphism of natural materials

Geological Society of America

1973 Glacial exhumation of impact craters on the Canadian Shield (Bulletin, 84:1667-1672)

Geological Survey of Canada

- 1966 Geology of the New Quebec Crater (Bulletin 150)
- 1969 The Clearwater complex (Bulletin 178)
- 1969 Geological notes on the Carswell circular structure, Saskatchewan (Paper 67-32)
- 1969 Mineral deposits of Canada (1:5,000,000) (Map 1252A)
- 1970 Isotopic age map of Canada (1:5,000,000) (Map 1256A)

Icarus

- 1971 Genetic implications of the shapes of Martian and lunar craters (15:384-395)
- 1971 Martian cratering II: asteroid impact history (15:396-409)

Journal of Geology

- 1961 Vredefort Ring structure: meteorite impact scar? (69:499-516)
- 1964 Sudbury structure as an astrobleme (72:412-434)

Nininger, Harvey

1972 Find a falling star

Tennessee Division of Geology

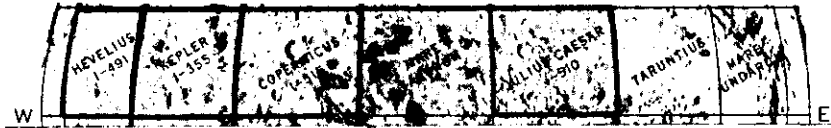
- 1968 Erin quadrangle geologic map (GM 38-SW)
- 1968 Cumberland City quadrangle geologic map (GM 38-NW)

U.S. Geological Survey

- 1965 Geologic map of the Packsaddle Mtn. quadrangle, Idaho (GQ-375)
- 1966 Terrestrial impact structures--a bibliography (Bulletin 1220)
- 1967 National atlas of the United States, pl. 70, Tectonic features
- 1968 Tectonic map of North America (1:5,000,000)
- 1969 Terrestrial impact structures--a bibliography 1965-68 (Bulletin 1320)
- 1971 Geologic map of the near side of the Moon (1:5,000,000) (I-703) and lunar geologic quadrangle maps (1:1,000,000) in the same series
- 1972 Aeromagnetic map of Colorado (GP-880)
- 1972 Geology of the Sierra Madera cryptoexplosion structure, Pecos Co., Texas (Prof. Paper 599H)

Washington Division of Geology and Earth Resources

- 1961 Geologic map of Washington (1:500,000)
- 1974 Complete Bouguer gravity anomaly map of Washington (1:500,000) (GM-11)
- 1974 Thickness of unconsolidated sediments, Puget Sound Lowland (GM-12)



MAPPING IN BRITISH COLUMBIA RESOURCE DEPARTMENTS*

by

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Surveys & Mapping Branch, Victoria, B.C.

This presentation will deal primarily with mapping at the Provincial level in British Columbia, and in particular that which is being done by the resource departments of the Provincial government. It is important to point out, however, that other levels of government, particularly Federal and regional, are also actively involved in preparation of maps. Therefore, before continuing to outline Provincial involvement in resource mapping, I will briefly review Federal and regional mapping activities.

The Federal government, through the Surveys and Mapping Branch of the Department of Energy, Mines, and Resources, Ottawa, edits, publishes, and distributes maps of the well-known and widely circulated National Topographic Series. These cover either all or part of British Columbia, depending on their scale. It will be of interest to point out that as of this date, all of British Columbia is fully covered by lithographed sheets at 1:1,000,000, 1:500,000, and 1:250,000 scales, while coverage at the much larger 1:50,000 scale is approximately two-thirds completed, with only portions of the Coast Mountains and the remote north central interior not yet shown on published lithographed maps. Besides the scales already mentioned, the Canadian Government produces maps at 1:25,000 for the urban and suburban areas around Victoria, Vancouver, and Kamloops.

Lists and indexes outlining current Canadian government mapping may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa. Published Federal maps are also distributed in British Columbia through the Vancouver office of the Geological Survey of Canada at 100 West Pender St., Vancouver, and the Director, Surveys and Mapping Branch, British Columbia Lands Service, Victoria.

In addition, the Federal government publishes various thematic or specialty maps. For example, the Geological Survey of Canada publishes and distributes geological maps which are issued in conjunction with various papers and bulletins released by the G.S.C. The Marine Sciences Directorate of the Federal Department of the Environment (Environment Canada) maintains a nautical chart sales and distribution office at 1230 Government Street, Victoria. You will be hearing more about the work of the Canadian Hydrographic Service in another talk. Detailed indexes to marine charts are available through that office. In addition, the Federal Department of Agriculture, in conjunction with the British Columbia Department of Agriculture, reproduces soils maps which appear as part of a series of published soils reports covering the agricultural regions of British Columbia.

The Federal Department of the Environment (Environment Canada) has also been active in producing specialized thematic maps which they have issued in conjunction with study papers on the environment.

By-passing for a moment the cartographic activities of the Provincial resource departments, other sources of detailed governmental mapping include

regional districts and municipalities in British Columbia. Many regional and local (i.e., municipal) levels of government produce maps in connection with planning reports or to use as a base for plotting municipal services of various kinds. The Department of Municipal Affairs, Victoria, B.C., can provide the addresses of regional and municipal authorities where enquiries may be made about the type and availability of maps which regional districts or municipalities may be able to supply for library reference use. In general, only the larger, more heavily populated regions and municipalities prepare specialized maps and would be able to provide reproductions of them. The map sheets are usually produced by diazo or dry-print process or by offset with limited use of colour. Furthermore, the mapping may be attached to or form part of a published report on a particular aspect of planning or other municipal or regional service. In summary, regional districts or municipalities are less concerned about producing resource maps than they are about mapping for particular local projects or services.

I will now turn my attention to the major cartographic activities taking place within Provincial resource departments, specifically the Lands Service, the Forest Service, the Department of Mines and Petroleum Resources and the Environment and Land Use Committee Secretariat. In no way would it be possible to provide an exhaustive treatment of the processes involved in compiling, publications and distribution of all of the maps done by these agencies. However, I will outline a few examples which may interest you and provide sources from which you may get further information. Also I am not going to deal with the historical background of Provincial mapping or with details of distribution policies (i.e., discounts for educational use) or prices. Such subjects can better be dealt with by direct enquiry.

LANDS SERVICE

The Surveys and Mapping Branch of the British Columbia Lands Service edits, publishes, and distributes several types of lithographed and white-print paper maps. The Branch also has an aerial photographic function, undertaking air photography, in black and white and colour, at the request of government departments and agencies. Indexes to air photo cover are available from the Director, Surveys and Mapping Branch. One index locates and lists black and white air photo mosaics which have been reproduced to date. These mosaics, which are compiled at approximate ground scales, are available as photographic reproductions and contain some base details such as names. Some are also available at a considerably lower cost as paper white prints. Orthophotographic maps (photo-maps) controlled for scale, are now also being produced by the Surveys and Mapping Branch.

To return to the mapping function of the Provincial Surveys and Mapping Branch, two major types of map are produced = published (lithographed) maps which are colour reproductions and departmental maps which are reproduced as black and white paper prints from mylar and other types of transparent bases.

Because of the variety of detail which is shown on them and their popularity as educational references, lithographed maps are generally the most popular and common items in map libraries. Up-to-date indexes are available showing the variety of published maps which are produced and distributed. They may be ordered from Director, Surveys and Mapping Branch, British Columbia Lands Service, Victoria, B.C.

Black and white print maps issued by the Surveys and Mapping Branch include large-scale sheets of selected portions of the Province and planimetric base maps which are used mainly as bases for plotting other resource detail, such as forest inventory data and land status reference.

Metric Conversion

The Surveys and Mapping Branch has committed its future new and conversion mapping to the use of metric horizontal and vertical scales, that is, in future elevations will be shown in metres and horizontal distances generally in natural ratio multiples of 1, 2, and 5; e.g., 1:1,000, 1:2,000, and 1:5,000. However, allowance is made for the use of intermediate ratios such as 1:2,500 where practical requirements demand it. A standard system of scaling, indexing, and coordinate control is being prepared for general use throughout the Province.

Survey Systems in British Columbia

Examination of maps containing cadastral detail (i.e., survey lines and lots) in British Columbia shows a complexity of patterns ranging from variations of the section - range - township system to what the Lands Service refers to as the district lot system.

Recently, the Branch produced a booklet titled "Survey Systems within the Crown Domain" which explains the various systems and traces their origin.

British Columbia Forest Service, Victoria, B.C.

The Management Division, British Columbia Forest Service, maintains a Provincial Forest Atlas. This is not an atlas in the sense of being a published volume of forest resources but rather what may be more accurately referred to as a series of reference transparencies on which are plotted administrative boundaries and resource alienations of concern to Forest Service administrators. Black and white paper prints taken from master copies on film transparencies show, for example, forest district boundaries, the location of public sustained-yield units, watershed reserves, timber sales, tree farm licences, research plots and other relevant data. These maps are subject to obsolescence because of the nature of the administrative detail which is shown on them.

The Inventory Division, British Columbia Forest Service, is responsible for producing and maintaining a series of maps and published statistical data relating to the volumes, ages, condition, and status of merchantable species. The Inventory Division distributes an "Index to Published Forest Cover Maps and Data" which lists the coverage and availability of inventory mapping.

Department of Mines and Petroleum Resources, Victoria, B.C.

Mineralogical mapping in British Columbia is both complex and voluminous. I have already mentioned the work being done by the Geological Survey of Canada but the Provincial Department of Mines and Petroleum Resources is also heavily involved in mapping to serve its scientific and administrative functions.

The publication titled "Geology, Exploration and Mining (G.E.M.) in British Columbia" is an annual report on the state of geological exploration and mining. It contains many small-scale page-size maps and refers to others which have been produced by mining companies and geologists.

The Geological Bulletin Series are published reports, with detailed maps, showing the geology of various districts of the Province. Occasionally, preliminary (black and white) maps are produced prior to publication of the text of the bulletin.

A very important series of maps which is prepared and distributed by the Department of Mines and Petroleum Resources is the Mineral Deposit-Land Use Map Series. Sheets are available as paper white prints or as sepia transparencies. Issued at 1:250,000, these sheets complement the data compiled on renewable resources by the Environment and Land Use Committee Secretariat.

Another series of 1:126,720 maps covering the whole Province are the Mineral Inventory Maps (MIMS) sheets. These serve as co-ordinate data bases for filing-information on mineral claims. Like other "reference-type" maps, they are up-dated frequently and of course can rapidly become obsolescent in areas subject to sudden flurries of claim staking activity. Supplementing the base maps of the MIMS series are print-out cards which provide the assay details on minerals and other data on claims indexed on the map.

Another map series which the Department of Mines and Petroleum Resources issues are Assessment Report Index maps. These sheets record the location of filed reports on mineral deposits and claims. They are keyed to a published numerical index.

The Department of Mines and Petroleum Resources also issues an "Index to Geological Mapping in British Columbia". The Index provides map location keys and titles of publications for published bedrock geological maps and reports in British Columbia, both Federal and Provincial.

The Petroleum and Natural Gas Branch of the Department of Mines and Petroleum Resources offers several services, including maps, and these are published in the "Catalogue of Publications, Maps and Services concerning Petroleum and Natural Gas".

Environment and Land Use Committee Secretariat

The Resource Analysis Unit of the Environment and Land Use Secretariat is heavily involved in the production of a series of thematic maps relating to the inventory of renewable resources in British Columbia. This agency functions independently of other provincial departments and is responsible to the cabinet committee of resource ministers - the Environment and Land Use Committee.

Information on the maps and publications which the British Columbia Land Inventory group of the Secretariat has produced to date is published periodically by the ELUCS in their "List of Available Publications", copies of which may be obtained from the Assistant Director, Resource Analysis Unit, ELUC Secretariat, Parliament Buildings, Victoria, B.C., V8V 1X4.

Published (i.e., lithographed) cartographic data is produced for the following land capability sectors: Soils Capability for Agriculture; Forestry; Recreation; Wildlife-Ungulates; and Wildlife-Waterfowl.

A composite of the above and other data has also been published in the form of Land Capability Analysis Maps, of which several have been published to date covering various regions of the Province. The litho-graphed maps are produced

[continued on p. 52]

ATLASES CATALOGED AT UCLA

by

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

WORLD

- Atlas of discovery, with an introd. by Sir Francis Chichester / Maps by Geographical Projects, text by Gail Roberts. --London, Aldus Books, Jupiter Books [1973]
192 p. : col. ill., col. maps. ; 3lcm
1. Discoveries (in geography) - History. I. Roberts, Gail. II. Geographical Projects.
- al Faruqi, Isma'il Ragi A 1921-
Historical atlas of the religions of the world. Isma'il Rāgī al Fārūqī, editor; David E. Sopher, map editor. New York, Macmillan [1974]
xviii, 346 p. ill. (some col.), col. maps. 29 cm.
Includes bibliographies.
ISBN 0-02-336400-9 MARC 73-16583
1. Religions. 2. Religions-Maps.
I. Sopher, David Edward, joint author.
- Miller, Donald B
Global atlas of relative cloud cover, 1967-70; based on data from meteorological satellites [by Donald B. Miller and Robert G. Feddes] Washington, 1971.
iv, 237 p. (chiefly charts) 27 cm.
1. Clouds-Atlases. 2. Clouds-Photographs from space. I. Feddes, Robert G; joint author. II. United States. National Environmental Satellite Service. III. USAF Environmental Technical Applications Center.
MARC 72-601795
- CANADA
- The national atlas of Canada. -- 4th ed. rev. -- Toronto : Macmillan Company of Canada, Ltd. ; Ottawa : Dept. of Energy, Mines and Resources ; Ottawa: Information Canada, 1974.
[xvii], 254 p. (chiefly col. maps), [12] p. ; 38 x 28 cm.
Colored maps on lining papers.
Also published in French under title: L'Atlas national du Canada.
"The first printing of the fourth edition, ... [published by the Surveys and Mapping Branch of Canada, consisted] of loose sheets ... in a specially designed box. [This] bound volume supersedes the boxed sheets."
Bibliography: p. [1-12].
1. Canada - Maps. I. Macmillan Company of Canada, Ltd., Toronto. II. Information Canada, Ottawa. III. Canada. Dept. of Energy, Mines and Resources. IV. Canada. Surveys and Mapping Branch. V. Title: L'Atlas national du Canada.
- Canada. Surveys and Mapping Branch.
Topographical maps of Canada, illustrating geology and land forms = Cartes topographiques du Canada, illustrant la géologie et les formes du terrain / Surveys and Mapping Branch, Dept. of Energy, Mines and Resources. -- Ottawa : [1973]
[43] col. maps (part fold.) ; 75 x 63 cm. Cover title. English and French. Scales vary. Dates and editions of maps vary. "A set of 42 maps selected from the National Topographic System." "The text describing the geology and land forms depicted on these maps is G.S.C. Paper 64-21."
1. Canada - Maps, Topographic. I. Canada. Geological Survey. Paper 64-21. II. Title. III. Title: Cartes topographiques du Canada.

CANADA (Continued)

- Kerr, Donald Gordon Grady, 1913-
A historical atlas of Canada. Editor: D.G.G. Kerr; cartography: preparation by C.C.J. Bond, drawing by Ellsworth M. Walsh assisted by Edward Banks and Roy Petticrew. 2d ed. Don Mills, Ont., Nelson [1966]
ix, 120 p. illus. (part col.), col. maps. 32 cm. Bibliography: p. 114-115.

1. Canada-Historical geography-Maps. -McKee, Edwin Dinwiddie, 1906-
I. Bond, Courtney C.J. II. Title.
LC Map 67-377
[UCLA also has several copies of 1960 edition.]

- British Columbia Natural Resources Conference.
British Columbia atlas of resources / Editors, J.D. Chapman, D.B. Turner; cartographic editors, A.L. Farley, R.I. Ruggles. --1st ed. -- Vancouver, B.C. : 1956.
[vii], 92 p. : illus., 48 col. maps; 45 x 57 cm. Includes bibliographies.

1. Natural resources - British Columbia - Maps. 2. British Columbia - Economic conditions - Maps. I. Chapman, John Doneric, 1923- II. Turner, D. Bruce, 1931- III. Title. IV. Title: Atlas of resources.

UNITED STATES

- Baker, Simon
The look of our land, an airphoto atlas of the rural United States / compiled by Simon Baker and Henry W. Dill, Jr. -- Washington : U.S. Dept. of Agriculture, Economic Research Service, 1970-71.
5 v. : illus., maps ; 24 x 29 cm. -- (Agriculture handbook ; no. 372, 409, 419, 384, 406) Updates Agriculture handbook no. 153 : Land use and its patterns in the United States, by F.J. Marschner.
Description of each area reproduced from Agriculture handbook no. 296: Land resource regions and major land resource areas of the United States, by M.E. Austin.

Includes bibliographies. CONTENTS: [v.1] A-C. The Far West.--[v.2] D-E. The mountains and deserts.--[v.3] F-J. The plains and prairies.--[v.4] K-M. North Central.--[v.5] N-U. The East and South.

1. Land - U.S. 2. Land utilization - U.S. - Maps. I. Dill, Henry W., 1912- II. Marschner, Francis Joseph, 1882-

Paleotectonic maps, Jurassic system / by Edwin D. McKee [and others]. With a separate section on paleogeography by Ralph W. Imlay. -- Washington : U.S. Geological Survey, 1956.
6 p. : ill., 9 fold. maps (some col.); 77 x 61 cm. -- (United States. Geological Survey. Miscellaneous geologic investigations. Map I-175)
Cover title. Scale of most maps 1:5M
Bibliography: p.4.

1. Geology - United States - Maps.
2. Geology, Stratigraphic - Jurassic.
I. Imlay, Ralph Willard, 1908-

-Nebenzahl, Kenneth
Atlas of the American Revolution / map selection and commentary by Kenneth Nebenzahl, narrative text by Don Higginbotham. -- Chicago: Rand McNally, 1974.

218 p. : ill. (some col.), 55 col. maps (1 fold. col. map in pocket) ; 39 cm.
"In addition to this graphic coverage of the War of Independence, the atlas includes street plans of the principal cities of eighteenth century North America and regional maps ..."

1. United States - History - Revolution.
2. United States - History - Revolution- Maps. I. Higginbotham, Don. II. Title.

-U.S. Forest Service.

Atlas of United States trees / U.S. Forest Service. -- Washington: 1971-
v. : maps (part fold. in pocket) ; 36 cm. -- (U.S. Dept. of Agriculture. Miscellaneous publication no. 1146)
Includes bibliographies.

1. Trees - U.S. - Maps. I. Title.
CONTENTS: v.1. Conifers and important hardwoods, by E.L. Little, Jr.

-Newton, John Garland, 1932-

An oceanographic atlas of the Carolina continental margin, by J.G. Newton, O.H. Pilkey, & J.O. Blanton. [Raleigh] North Carolina Dept. of Conservation and Development, 1971. iv. 57p. (incl. p.[3] of cover) illus., maps 44 x 74 cm. \$4.50
Bibliography: p.56-57.

1. Oceanography - Atlantic Ocean - Charts, diagrams, etc. ... 4.
Shipwrecks - North Carolina - Maps.
.... MARC 76-654656

-Atlas of Mississippi / Ralph D. Cross, editor ; Robert W. Wales, co-editor; Charles T. Traylor, chief cartographer. -- Jackson : University Press of Mississippi, 1974.

xii, 187 p. : ill., col. maps ; 29cm.

1. Mississippi - Maps. 2. Mississippi Economic conditions - Maps. 3. Mississippi - Social conditions - Maps.
...

-Nelson (Thomas O.) Company, Fergus Falls, Minn.

Atlas of the State of Minnesota, containing a map of each county, directories of lakes, cities, Minnesota wetlands, U.S. wetlands and other miscellaneous maps and information. [Rev. ed.] Fergus Falls, Minn., 1971.

166 p. (chiefly maps) 34 cm. \$12.50

1. Minnesota - Maps. I. Title.
MARC 76-654613

-Beck, Warren A

Historical atlas of California / by Warren A. Beck and Ynez D. Haase. -- Norman : University of Oklahoma Press, 1974.
[ix], 101 p. of maps, [23] p. ; 32cm. Text for each map printed on verso of following map. Includes bibliography.

1. California - Historical geography - Maps. 2. California - History. I. Haase, Ynez D. II. Title. \$9.95
CIP 74-5952

-California. Division of Mines and Geology.

Geologic atlas of California / Prepared by the California Division of Mines and Geology under the direction of Charles W. Jennings. -- Olaf P. Jenkins edition. -- [San Francisco] : 1958-1969.

1 v. : ill. (1 fold. col.), 27 fold. col. maps ; 58 cm.

Title from cover and title page.

Running title: Geologic map of California. Title on "Geologic legend": Geologic map of California, Olaf P. Jenkins edition, 1958-1969. "Explanatory data" precedes each map. In loose-leaf binder. Scale 1:250,000
Includes bibliographies.

1. Geology - California - Maps. I. Jenkins, Olaf Pitt, 1889- II. Jennings, Charles W. III. Title: Geologic map of California.

-Marine atlas of Hawaii; bays and harbors/

Editor, Jean McKean Grace; cartographer, Lois S. Nishimoto. -- [Honolulu] : Sea Grant College Program, University of Hawaii, and the Office of the Marine Affairs Coordinator, State of Hawaii, 1974.

ix, 241 p. : ill., maps (chiefly col.); 28 x 38 cm. -- (Sea Grant miscellaneous report; UNIHI-SEAGRANT-MR-74-01)
Includes bibliographies.

1. Bays - Hawaii. 2. Harbors - Hawaii. I. Grace, Jean McKean. ...

EUROPE

-The Bartholomew/Warne atlas of Europe, a profile of Western Europe. -- Editorial director, Geoffrey S. Browne ; executive editor, Robert M. Croucher. -- Edinburgh : John Bartholomew; London : Frederick Warne, 1974.
128 p. : col. ill., col. maps. ; 31cm
Bibliography: p. 118.

1. Europe, Western - Maps. 2. Europe, Western - Economic conditions - Maps.
...

EUROPE (Continued)

- Neundörfer, Ludwig, 1901-
Atlas sozialökonomischer Regionen Europas = Atlas social et économique des régions de l'Europe = Atlas of social and economic regions of Europe / Herausgeber, Ludwig Neundörfer; wissenschaftliche Bearbeitung, Dieter Härung, Uli Herrnbrödt, Walter Menges -- Frankfurt am Main : Soziographisches Institut am der Johann Wolfgang Goethe-Universität, 1964-
1 v. : fold. col. maps ; 64 cm.
Issued in Lieferungen for loose-leaf binder. German, French, and English. Scale of maps chiefly 1:4,000,000. Text on leaf facing map or on verso of map. "Includes all European countries as far as the western border of the Soviet Union."
1. Europe - Economic conditions - 1945- - Maps. 2. Europe - Social conditions - 1945- - Maps. I. Härung, Dieter. ...
- Association pour la réalisation de l'atlas régional des Pays de la Loire. Atlas régional des Pays de la Loire. Paris, Technip, 1973-
1 v. col. maps. 62 x 79 cm.
At head of title: Institut de géographie et d'aménagement régional de l'Université de Nantes.
Overlay inserted in pocket.
1. Loire Valley - Maps. I. Université de Nantes. Institut de géographie et d'aménagement régional. II. Title.
MARC 74-177427
- May, Herbert Gordon, 1904-
Oxford Bible atlas. - 2nd ed. / edited by Herbert G. May with the assistance of G.N.S. Hunt in consultation with R.W. Hamilton. - London ; New York : Oxford University Press, 1974.
144 p. : ill., col. maps, col. plans, ports. ; 26 cm. GB 74-16980
Includes index.
ISBN 0-19-211556-1 : £2.75 (\$9.95U.S.)
ISBN 0-19-211557-X pbk.
MARC 74-184843

ASIA

- Jasbir Singh, 1932-
An agricultural atlas of India: a geographical analysis. Kurukshetra, Vishal Publications, 1974.
xxvi, 856p. maps. 25 cm. Rs65.00
Sponsored by the Indian Council of Social Science Research.
- The green revolution in India: how green it is! [postscript to An agricultural atlas of India: a geographical analysis] Kurukshetra, Vishal Publications, 1974.
48 p. maps. 25 cm. Includes bibliographical references.
1. Agricultural geography - India. I. Indian Council of Social Science Research. II. Title.
MARC 74-901096
[This is not a true atlas. It consists of text, primarily.]
- Singapore. Ministry of Culture.
Singapore guide and street directory, with sectional maps / Ministry of Culture, Singapore. -- 9th ed. -- Singapore : 1969, 1971 printing.
330 p. : illus. (some col.), maps (some fold. col.)
First ed. published in 1954 by Singapore Survey Dept. under title: Street directory and guide to Singapore, with sectional maps.
1. Singapore - Description and travel - Guide books. I. Singapore. Survey Dept. Street directory and guide to Singapore, with sectional maps. II. Title.
- Nguyen Ngoc Bich
An annotated atlas of the Republic of Viet-Nam / compiled by Nguyen Ngoc Bich and the staff of the Information Section, Embassy of Viet-Nam, Washington, D.C. -- Washington : Embassy of Viet-Nam, 1972.
62 p. : illus., maps ; 28 cm.
1. Vietnam -Maps. 2. Vietnam -Description and travel. I. Vietnam. Embassy. United States. Information Office. II. Title. III. Title: Atlas of the Republic of Viet-Nam.

AFRICA

-Fage, John Donnelly

An atlas of African history / by J.D. Fage. -- London : E. Arnold, 1973, c1958.
64 p. : 62 maps.

"First published 1958 ... Reprinted with amendments 1963 and 1965"
Includes bibliography and index.
ISBN 0-7131-5131-5

1. Africa - Historical geography - Maps. I. Title.

-Mission du Transafricain, 1912.

Société d'Éditions Géographiques, Maritimes et Coloniales, 1924-25.
3 v. illus., fold.col.maps.

Vol.3, a portfolio, consists of 4 p. and 19 fold.col.maps. At head of title: Rapports des Missions organisées par la Société d'Études du Ch. de Fer Transafricain, publiés par les soins de la Société de Géographie. Contents.- [v.1] Rapport du Capitaine Nieger ... 1924. [v.2] Notice sur le Sahara Soudanais, par le Capitaine Cortier. Rapport géologique et hydrologique, par M.R. Chudeau. 1925.- [v.3] Carte des régions parcourues par la Mission ... 1924.

1. Railroads - Sahara. 2. Railroads - Africa, French West. 3. Physical geography - Sahara. 4. Physical geography - Africa, French West. 5. Railroads - Surveying. I. Chudeau, René, 1864-1921. II. Cortier, Maurice Adrien, 1879-1914. III. Nieger, Marie Joseph Emile. IV. Société d'Études du Chemin de Fer Transafricain. Rapports des Missions. V. Société de Géographie, Paris.

-Rhodesia and Nyasaland. Federal Dept. of Trigonometrical and Topographical Surveys.

Federal atlas / Federal Dept. of Trigonometrical and Topographical Surveys, Rhodesia and Nyasaland. -- Salisbury : [1964].

24 col. maps ; 81 x 69 cm.
Dates of maps vary (1960 through 1964).
Bibliographic information taken from maps.

1. Rhodesia and Nyasaland - Maps.

PACIFIC OCEAN

-National Marine Fisheries Service.

EASTROPAC atlas. Cuthbert M. Love, editor. Washington, D.C., 1970-
v. illus.,charts,maps. (Its Circular 330)

"An international cooperative investigation [Feb.1967 thru Mar.1968] of the eastern tropical Pacific Ocean... to provide data...for...effective use of the marine resources of the area, especially tropical tunas, and...to increase the knowledge of the ocean circulation, air-sea interaction, and ecology...."

1. Oceanographic research - Pacific Ocean. 2. Oceanography - Pacific Ocean - Charts, diagrs., etc. 3. Marine resources - Pacific Ocean. 4. Fisheries - Research - Pacific Ocean. I. Love, Cuthbert M. II. Title. III. Series.

[UCLA Map Library has v. 1-9. v.9 was issued February 1975; volumes 10 & 11 in preparation. Price is \$4.75 per vol. from U.S. GPO] Compilers are principally of Scripps Institution of Oceanography, Univ. Calif., San Diego; La Jolla, CA.

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at either 1:250,000 or 1:125,000 scales. Detailed manuscript sheets covering various biophysical characteristics (e.g., soils, landforms, vegetation, growing season climate), interpretive data (e.g., climate capability for agriculture and forestry) and human and physical resources (e.g., present land use, and recreational facilities inventory) have also been completed. They may be produced as black and white ozalid prints at either 1:126,720 or 1:125,000.

* Presented May 8, 1975 to the joint meeting of WAML/ACML, Vancouver.

NEWS FROM EXCHANGE PUBLICATIONSAssociation of Canadian Map Libraries

The Ninth Annual Conference of ACML was held June 15 - 20, 1975 at Mount Allison University, Sackville, New Brunswick. The preliminary program was announced to include the following presentations:

Panel Discussion: "Evaluation of 1:250,000 N.T.S. Map Series"

Moderator: Lou Sebert, Energy-Mines & Resources Dept.

"The Land Registration & Information Service", by R. Simmonds, Manager, Systems & Planning Division.

"Maritime Resource Management Service", by C.W. Raymond, Director, MRMS.

"The Other Revolution, 1775", by Walter K. Morrison, Nova Scotia Land Survey Institute, Lawrencetown.

"Historical Maps of Nova Scotia", by George T. Bates, Nova Scotia Land Surveyor, Halifax.

"The Map of Cabotia and its Place in the Mapping of New Brunswick", by Richard Malinski, Simon Fraser University.

"Annual Report - Energy, Mines & Resources", by Lou Sebert, DEMR.

"Annual Report - National Map Collection", by Betty Kidd, Chief, National Map Collection, Public Archives of Canada

Panel Discussion: "Cartobibliography"

Moderator: Lorraine Dubreuil, McGill University

Mr. Brad Fay, Head, Information Centre, Maritime Resource Management Service, Amherst, Nova Scotia [P.O. Box 310, Amherst, N.S. B4H 3Z5] is the host.

The Proceedings of the Seventh Annual Conference, held June 25-30, 1973 at The Banff Centre, Banff, Alberta, has been published [date of issue, Nov. 74], and is available for CAN\$5.00 from ACML, c/o National Map Collection, Public Archives of Canada, 395 Wellington Street, Ottawa, Ontario K1A 0N3.

CONTENTS:

"To Mercator", by Roy Daniells

"Problems in map collections", *panel discussion with:*

Maureen Wilson, Frances Woodward, Les Bortner, Robert Batchelder, Vivian Janes, Ronald Macdonald.

"Early printed maps of British Columbia", by John D. Spittle

"The creation and evolution of interstate boundaries in the western United States", by Lynn L. Rosenvall

"David Thompson and his maps", by Victor G. Hopwood

"The computer mapping service of the Census of Canada", by Russell S. Page, and Karole E. Kidd

"Notes from the Surveys and Mapping Branch", by Lorne B. Leafloor

"Cartomatique and the Canadian map user", by Yves Tessier

"Minutes of the seventh annual business meeting"

"List of Delegates"

"Information about the A.C.M.L." & "A.C.M.L. Publications"

The Bulletin (No. 18, May 1975) of the Association of Canadian Map Libraries contains the following:

"Maps as constraints or springboards to imaginative thought: Future Maps of Canada", by David B. Knight, Department of Geography, Carleton Univ. *Illustrations: Canada 1975 A.D., Canada 2000 A.D., Canada 2010 A.D., Canada 2080 A.D., maps by Stefan Palko, Cartographer.*

"Early Canadian Cartography in the University of Illinois Map and Geography Library", by David Cobb, Map Librarian, Univ. of Illinois.

"Mapping the Oceans: some basic problems in marine cartography", by David Monahan, Canadian Hydrographic Service.

"Minutes of the Eighth Annual Meeting - June 10, 1974 - Toronto"

"Treasurer's Report to May 31, 1974"; "Directory Committee Report";

"Publications Committee Report"; "Awards Committee Report"; "Membership Committee Report"; "Library Layouts Committee Report"; "National Union Catalogue Committee Report"; "Newsletter [Bulletin] Committee Report";

"Nominating Committee Report".

Book Reviews: Johnson, Adrian. America Explored: A Cartographical History of the Exploration of North America. Viking Press, New York, 1974. Reviewed by John Clarke.

Bertin, Jacques. Sémiologie graphique. Paris, Mouton and Gauthier-Villas, 1973. 2nd edition. Reviewed by D.R.F. Taylor.

Agenda of ACML Ninth Annual Conference, June 1975 Sackville.

Agenda of WAML/ACML Joint Meeting, May 1975, Vancouver.

Agenda of Special Libraries Association, Geography and Map Division, Annual Meeting, Chicago, June 1975.

Agenda of IFLA 41st General Council Meeting, Oslo, August 1975

Cataloguing Notes; Citation of New Publications; News Notes.

Included with this Bulletin mailing is a 12-page Membership List, December, 1974; and the Proposed Constitution and By-Laws, April 1975.

ACML Vice President Barbara Farrell, Carleton University, has been Editor of Bulletin[s] No. 16, 17, 18.

Geoscience Information Society

The GIS NEWSLETTER for March 1975 (No. 34) indicates that "escalating printing and mailing costs have made it necessary to shorten the number of GIS Newsletter issues per year. Beginning with [this] issue, the Newsletter will be published on a quarterly basis, in March, June, September and December."

This issue includes an announcement of a JOB OPENING [available August 21, 1975] as Assistant Geology Librarian, University of Illinois Library at Urbana-Champaign, Urbana, Illinois 61801. "Under the general direction of the Geology Librarian, has primary responsibility for the geology map collection. Selects, classifies, catalogs, and maintains the organization and quality of the map collection." [Salary not indicated] Apply to Robert F. Delzell, Director of Personnel. [Require M.S.L.S. w/geosciences background.]

Society of University Cartographers

The Bulletin of the Society of University Cartographers, Spring 1974, Vol. 8, No. 2 [Portsmouth, England] includes [a review of] "The National Atlas of Brazil", by J. P. Dickinson; "A brief history of papermaking", by R. L. Hills; "Surveying the view from the Summit of Snowdon", by C. Jesty; "The Oxford Polytechnic Diploma Course in Cartography", by R. W. Anson; "The construction of a relief model centred on the City of Sheffield", by J. E. Hall, and C. R. Jones; "The Cartographic problems encountered when illustrating boundaries of regions", by P. E. Sorrell; "Scribing (Part I)", by Lynne Cooper-Grundy; "National Atlas of India - a brief history of the National Atlas Organisation, its main activities, achievements and future programme", by A. K. Kundu, Deputy Director, NAO; "Reviews" [of books], edited by Terry Garfield; [reviews of] "Maps and Atlases"; "Materials and Accessories"; "Maintenance of Drawing Pens", by M. Draper; "A spline for drawing long gradual curves", by D. C. Seel; and, "Cartographic Notes".

The Bulletin, Vol. 9, No. 1, contains the note that Jack Render, Geography Department, Portsmouth Polytechnic, is the new Editor of the Bulletin. Alan Hodgkiss, University of Liverpool, had been the Editor since the Bulletin's inception.

Annual Subscriptions to the Society are £2.00 for overseas membership, or the Bulletin is available to non-members at the price of £1 per single copy and £2. for two issues (postage extra). Subscriptions should be sent to Mrs. E. Wilson, 45 Holders Hill Drive, London, NW4 1NL.

The CONTENTS of Vol. 9, No. 1, are: "Some notes on thematic cartography in Japan", by Haruko Kishimoto; "The Ordnance Survey 1:50,000 Series", by Oliver M. Dixon; "Speechlesse Delineations" pace Camden", by H. J. Dyos; "An Atlas of African Emergence" [a review of The Atlas of Africa, Editions Jeune Afrique 1973] by S. J. K. Baker; "Drawing a Thematic Atlas", by G. B. Lewis; "The Cartographic Studio", by Don Sutherland; [book] "Reviews" by T. Garfield; [reviews] of Maps and Atlases; "Calendars of Cartographic Interest"; "Scribing"; "Percentage Tables"; "materials and equipment"; "Cartographic Notes"; "Editor's Notes".

The SUC Summer School in Cartography, its Eleventh Annual, will be held at the Portsmouth Polytechnic from 1st - 5th September, 1975.

In addition to the many fine reviews of books, atlases, and individual maps, the Bulletin always contains many items of interest to the map librarian. The general emphasis, of course, is toward that of the cartographer - but there is sufficient material of value to anyone working with maps that warrants a subscription.

Terry Garfield, Reviews editor, makes the following inquiry of WAML Members: "In a future issue of our Bulletin, I would like to include something on the availability of American maps both official and otherwise, and I wonder if ... [a Member of WAML] ... would be willing to provide an article for us along these lines." Articles for the Bulletin can be up to 10,000 words and may include drawings or photographs for reproduction in black and white. Contributions should reach the editor by the end of October or April for inclusion in the issues to appear in March and September, and should be typed, with double-spacing, on one side of the paper. Please contact Mr. Garfield at the Department of Geography, The University, Leicester LE1 7RH.

CUMULATIVE INDEX VOL. 1-6.

* Only the first page number is given; additional information probably follows.

Abbreviations and Acronyms in the Mapping Sciences: A First Listing
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V.5,#1,p.38; #2,p.45.
V.6,#1,p.45; #2,p.55; #3,p.24.

Acquisitions Process

V.1,#2,p.11; #3,p.26.
V.3,#1,p.2.
V.4,#1,p.17: Elizabeth M. Rivero's
"Acquisitions Problems and Solutions"

Acquisitions Sources

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V.5,#3,p.46.
V.6,#2,p.46; #3,p.22.
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V.3,#2,p.25, p.44.
V.5,#1,p.24; #3,p.20.
V.6,#3,p.31.

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The Globe.

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V.4,#3,p.48: KWOC Index to the Map Collection, Hayden Library, Arizona State University, Tempe, Arizona.
V.5,#1,p.26: [same subject as above]
V.5,#3,p.45: Bench Marks!
V.6,#3,p.6: Bench Marks!

American Geographical Society

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V.4,#2,p.18: Gail Neddermeyer's
"Cataloging a Map Collection".

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V.6,#2,p.42: "Nevada Bureau of Mines and Geology Mapping".

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V.3,#3,p.16.

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