Western Association of Map Libraries

"... to encourage high standards in every phase of organization and administration of map libraries..."
The Western Association of Map Libraries is an independent association of persons, educational and business institutions. The Membership has defined, beginning in 1967, its Principal Region as follows: the Provinces of Alberta and British Columbia, and the States of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

Membership in WAML is open to any individual, institution, or business interested in furthering the purpose of the Association, which is "to encourage high standards in every phase of the organization and administration of map libraries." Send membership checks to the WAML Treasurer at the address shown below. Make checks payable to "WAML", or the "Western Association of Map Libraries." All memberships begin July 1.

WAML and its Information Bulletin operate on a Membership Year/Volume Year basis. Subscriptions begin July 1 and end on June 30 the following year. Mid-year joiners/subscribers will receive back-issues for that year. Back issues of the Information Bulletin are available for US$10.00/volume, or portion thereof, from the Business Manager.

Membership Categories

Individual Members reside in the Principal Region. Benefits of Individual Membership include voting privileges, receipt of meeting announcements, attendance at meetings, service as an Officer, and automatic receipt of the Information Bulletin. Dues are US$20.00 per year.

Associate Members reside outside the Principal Region. Associate Members may attend meetings, serve on committees, and automatically receive the Information Bulletin and meeting announcements. Dues are US$20.00 per year.

Institutional Members are commercial firms or educational organizations. The institution or firm may designate one of its staff as its Representative. The Representative has the same rights as Individual Members, except that they may not hold office. The Institutional Member will receive one copy of each issue of the Information Bulletin and Occasional Paper issued during the year of membership. Dues are US$40.00 per year.

Lifetime Individual Membership is open to individuals only, for a one-time payment of US$200. All privileges of membership, each issue of the Information Bulletin and a copy of each Occasional Paper will be sent, as published, after Lifetime Membership begins.

Subscriptions to the Information Bulletin are $25.00 per volume year. It is issued three times each year: #1 in November, #2 in March, #3 in July. Subscriptions to addresses outside of the United States are US$3.00 more, for postage.

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# Western Association of Map Libraries

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**INFORMATION BULLETIN**  
July 1994

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From the Editor

This is the last issue for several situations - myself as Executive Editor; Bill Studwell as Cataloging Editor; Joe Crotts as New Mapping Editor; Stan Stevens for his notes on persons (oops! or was that the last issue?). With the next issue, Larry Cruse and I will split up the duties — he'll be responsible for scholarly papers, and I for news and notes. Also with the next issue, I'll be experimenting around with sending news and notes via e-mail.

First of all, MANY THANKS to those of you who responded to the questionnaire re: news and notes via e-mail, that accompanied the last IB. I'm pleased to say that I seem to have figured out most of the pitfalls and problems, and am working with the Head of the Serials Department here at the UCSB Davidson Library to solve them. Second of all — what I have in mind is to try sending out news and notes once a month to every WAML member/subscriber for whom I have an e-mail address. I also contemplate doing a mailing to the IB's subscribers, asking basically if they prefer to receive the IB news and notes free of charge over the Internet and be responsible for doing their archiving (hardcopy or digital), or if they prefer to pay WAML for photocopying, handling, and mailing costs. Should be interesting what kinds of responses we get.

Throughout this period of change, Larry and I will especially appreciate receiving your suggestions for improvement. Let me emphasize - for volume 26, the IB will continue in hard copy exactly as is, I'll be sending out news and notes on e-mail to see how persons like the idea of currency. With volume 27, what I am proposing to the WAML PAC and Executive Board is that the title, Information Bulletin, be used for news and notes (to be sent out on e-mail; arrangements will be made for members/subscribers not on the Internet), and a separate journal (not yet named), issued once or twice a year, for scholarly papers.

With thanks for your support over the last five years,

Mary

The Information Bulletin is published by the Western Association of Map Libraries as its primary tool of communicating with its Membership and Subscribers; however, opinions expressed herein do not necessarily reflect an official Association position. If you have contributions for the IB, the Editor will appreciate receiving your material in electronic form. You may send it via E-mail on BITNET or INTERNET to the Executive Editor. You may also send material on magnetic disk, either 3.5 or 5.2 inch, MSDOS format preferred (Word or WordPerfect).
Copy Deadlines are: Issue #1: September 1st; Issue #2: January 1st; Issue #3: May 1st.

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1993/1994

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Secretary: Kathryn Womble
Treasurer: JK Herro
Past President: Jim O'Donnell
Business Manager: Richard Soares (1988-)
Information Bulletin Editor: Mary Larsgaard (vol 71-95, 1980-94)

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Stan Stevens (1993/94-1995/96)
JK Herro (1992/93-1994/95)
Tim Ross (1991/92-1993/94; Chair)
Ex-officio:
Mary Larsgaard, IB Editor (1989-94)
Dale Steele, IB Production Editor (1992-97)

PAC Microforms Subcommittee:
Larry Cruse (1993/94-19995/96; Chair)
Riley Moffat (1988/89-1994/95)
Ron Whistance-Smith (1988/89-1993/94)

PAC Geoscience Subcommittee:
Charlotte Derksen (1992/93-1994/95)
Barbara Haner (1992/93-1994/95)
Michael Noga (1987/88-1992/93; Chair)
Muriel Strickland (1993/94-1995/96)

Nominating Committee:
Janet Collins (1991/92-1993/94)
Jim O'Donnell (1993/94-1995/96; Chair)

Membership/Hospitality Committee:
Janet Collins (1993/94-1995/96; Chair)
Michael Noga (1993/94-1994/95)
Carol I. Arnesa (1993/94-1995/96)

APPOINTEES

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Phil Hoehn (1980-)

Representatives/Liaisons
To AACCCM (Anglo-American Cataloguing Committee for Cartographic Materials): Mary Larsgaard (1992/93-)
To ACMLA (Association of Canadian Map Libraries and Archives):
Tim Ross (1990/91-)
To A1A MAGERT (Map and Geography Round Table):
Greg Armento (1989/90-)
To CCISA (Congress of Cartographic Information Specialist Associations): JK Herro (1990-)

To GIS (Geoscience Information Society):
Connie Mansson (1991/92-)
Nancy Blair (1991/92-)

To IFLA (International Federation of Library Associations): Barbara Haner (1989/90-)

To SLA G&M (Geography and Map Division): Muriel Strickland (1985/86-)

Corrections
Mary Gaineder (Arthur H. Robinson Map Library, University of Wisconsin, Madison), informs your Editor of two significant typos in the 11/93 IB.
1.) p. 35. The Business Manager for the SLA G&M Bulletin has been Anita Sprankle, 406 E. Smith Street, Topton PA 19562-1121 since August 1986.
2.) p. 46, item 1: the sample call number should be G3201 (3701 is for the U.S.)

Joan Wineals (Map Library, University of Toronto) notes that the 7/93 IB, p. 220, needs clarification; the information on the Hammond Digital Cartographic Database was indeed taken from a press release, and is not for sale (as far as your Editor knows) — it is used solely by Hammond to generate maps. Thanks to these two hawk-eyes for catching these mistakes.
Minutes
Spring Meeting
Western Association of Map Librarians
March 31 - April 2, 1994
University of California, Riverside
recorded by
Kathryn Womble
Secretary

Executive Board Meeting:
March 31, 1994
President Sylvia Bender called the meeting to order at 9:15 am. In attendance were:
Sylvia Bender - President
Jim O'Donnell - Past President;
Publications Advisory Committee
(PAC) Geoscience Subcommittee; Nominating Committee
Kathy Rankin - Vice President/
President Elect; Membership/
Hospitality Committee
Kathryn Womble - Secretary
J.K. Herro - Treasurer, PAC
Richard Soares - Business Manager
Mary Larsgaard - Information Bulletin (IB) Editor
Dale Steele - IB Production Editor
Greg Armento - IB Book Review Editor
Larry Cruse - PAC Microforms Subcommitte
Michael Noga - PAC Geoscience Subcommitte; Nominating Committee
Dorothy McGarry
Stan Stevens

There were no additions/changes to the agenda as distributed by President Sylvia Bender.

Vice President Kathy Rankin reported on future WAML meetings:
FALL 1994
September 8-10, 1994
Jackson Hole, WY
Linda Zellmer, host
To be held at the University of Wyoming National Park Service Research Center in Grand Teton National Park. Preliminary topics for talks: local mapping and place name history and panel discussion on solutions to problems confronted when converting to on-line circulation.
SPRING 1993
May 9-13, 1995
Vancouver, BC
Tim Ross, host
Joint meeting with Association of Canadian Map Librarians and Archivists (ACMLA). The two organizations will have separate business meetings and share program meetings.
FALL 1995
Las Vegas
Kathy Rankin, host
Will probably be held on Monday-
Wednesday (early September) to take advantage of better airfares. Kathy discussed the possibility of an optional field trip rafting in the Grand Canyon. Options vary from 3- to 0-1/2 day trips.

SPRING 1996
Sacramento
Sylvia Bender, host
FALL 1996
Seattle
Kathryn Womble, host
SPRING 1997
Arcata
Bob Sathrum, host
We should begin lining up meeting places beyond spring 1997. The fall 1997 meeting will be the 30th anniversary meeting.

J.K. Herro, Treasurer, reported that although we've lost some members, our income remains good. Surveys will be sent out to members that have not renewed. The production Editor's Mac was bought from the checking account without touching savings.

Kathy Rankin, Membership/
Hospitality Committee, continues to monitor MAGERT membership and send mailings to MAGERT members in the West who are not WAML members.

The Board authorized Stan Stevens to print another 200 membership brochures.

Rich Soares, Business Manager, reported that IB subscriptions are at
Cakes celebrating WAML's return to Riverside, served at Friday's luncheon.

Eating and relaxing at Friday's luncheon at UCR's Botanical Gardens.
162, down 15 from last year. Some more may still come in. We may be getting an unusually high number of claims for foreign subscriptions. Rich will report more fully on this issue next meeting. He has sent out 51 paid copies and 10 unpaid copies so far this year of Occasional Paper (OP) 14, Topographic Mapping of Africa, Antarctica and Eurasia.

The Board approved lowering the sales price of the Hawaii t-shirts and tote bags to $5.00.

The Board approved $100 for Stan Stevens to spend on archival supplies. Stan will also speak with Phil Hoehn about the status of the archive agreement between WAML and UC Berkeley.

Jim O'Donnell, Nominating Committee, reported that the Committee needs candidates for Vice President, Secretary and Treasurer.

Michael Noga, PAC Geoscience Subcommittee, noted that Murial Strickland has input all the records for the index of California geologic maps by topographic quadrangle. It needs further checking and editing.

Sylvia Bender will ask Riley Moffatt if he wants to continue as a CUAC representative. His term expires next year.

Mary Larsgaard, IB Editor, gave a report. The reviewers are working very well for the IB; however, we must solicit scholarly papers. Mary quickly received 7 responses back to her questions regarding the future of the IB and electronic distribution of the News and Notes. Perhaps the News and Notes would eventually be distributed on-line (with paper copies going to those who are not connected) and there would be a separate scholarly papers volume published in paper, maybe once a year. Other map library organizations' journal editors are interested in consolidation. A commercial publisher, Haworth Press, has also expressed interest in helping to back a map library journal.

In addition, J.K. Herro reported that the Congress of Cartographic Information Specialists Associations (CCISA) is discussing the same issue. Mary, doing News and Notes, and Larry Cruse, as papers editor, will work together on the IB through the July 1995 issue. Dale Steele, IB Production Editor, is now using a new Centra 610 and is very happy with it.

After discussion, the Board approved the following:

a. The publication of the Nov. 1994 - July 1995 volume year of the IB will remain exactly as it is now.

b. An electronic mock-up of the News and Notes portion of the July 1994 IB will be sent to the Executive Board.

c. Beginning with the Nov. 1994 issue of the IB, the News & Notes portion will be distributed electronically to those WAML members and IB subscribers that are able to receive it in that format. This electronic distribution will be in addition to the normal mailing distribution as noted in "a" above.

d. A financial analysis will be prepared to look at different publishing scenarios (different formats/frequencies/etc.) and how they would impact revenue.

Larry Cruse, PAC Microforms Subcommittee, reported that a jobber is now in control of filling microfiche orders. Any backlog will be cleaned up shortly.

The Board authorized Larry to proceed with new microfiche projects:

a. Maps & charts of North America

b. Civil War exhibit maps
c. Either a set of 19th century US land ownership maps or a 1600-sheet Russian map set (whichever the Subcommittee determines should come first).

The Board also authorized Larry Cruse to purchase a PowerMac 8100/ 80 16/1000/CD, 20" monitor, keyboard and modem totaling approximately $8,000. The PowerMac will be used to manage Microforms Subcommittee work (correspondence, a microcartography column, creating indexes for map sets on fiche, etc.). In addition, the machine will support research and development of digital preservation projects, testing and reviews of software and hardware, and development of new products and services. Two examples would be creating CD products and serving as a WAML ftp site.

The meeting was adjourned at 11:00.

Business Meeting
April 1, 1994

President Sylvia Bender called the meeting to order at 11:10 a.m.

Secretary Kathryn Womble gave the minutes of the Executive Board meeting from the previous day.

Business Manager Richard Soares gave his report noting a drop in IB subscriptions. WAML publications were offered for sale, as well as Hawaii t-shirts and tote bags for $5.00. He noted that he only has a
few copies left of OP3, Union List of Sanborn Fire Insurance Maps held by Institutions in the United States and Canada, vol. 2, Montana to Wyoming: Canada and Mexico. It will then be available only on microfiche. Sylvia Bender acknowledged the work of the Publications Advisory Committee: Stan Stevens, J.K. Herro and Tim Ross, chair. Along with Mary Larsgaard, Dale Steele and Larry Cruse, the Committee worked to come up with a proposal on the future of the IB.

Mary Larsgaard spoke about that proposal. The next volume year, Mary will continue to edit the News and Notes portion of the IB and Larry Cruse will edit the papers portion. There are different publishing scenarios that will be looked at over the next year. During that time, through July 1995, the IB will stay exactly the way it is now. There was some discussion about serials departments being willing to handle changes in publication formats and frequencies, but it seems that other titles are going through similar changes.

Stan Stevens noted that OP13 was assigned to the index for the IB that Frances Woodward created and which is now available electronically.

Larry Cruse, PAC Microforms Subcommittee, reported that microfiche distribution duties are now handled by a jobber in San Diego and should run smoothly. He looks forward to using the new PowerMac to do technology reviews for the IB and would like to get more graphics into the IB. As papers editor for the IB, he wants to see papers relevant to solving our problems; how we can be better "at our craft."

PAC Geoscience Subcommittee Chair Michael Noga reported that Joe Crotts and Muriel Strickland have continued to work on the quad-based index to California geologic maps. Editing now needs to be done.

Chair of the Nominating Committee, Jim O'Donnell announced the following candidates for this year's election:

Vice President/President Elect:
Greg Armento and Kathryn Womble
Secretary:
J.K. Herro and Yvonne Wilson
Treasurer:
Dorothy McGarry and Vivienne Roumani-Denn

Kathy Rankin reported for the Membership/Hospitality Committee. The Committee continues to send packets to new members, survey members who have dropped their memberships, invite MAGERT members in the principal region to join WAML, and help with meeting registration. Kathy also noted that there were handouts available regarding the upcoming meetings in Jackson Hole and Vancouver, B.C. She also asked for interest in an optional Grand Canyon rafting trip in conjunction with the Las Vegas meeting. The high cost is a major factor.

Mary Larsgaard spoke as liaison to the Anglo-American Cataloguing Committee for Cartographic Materials. She and Dorothy McGarry are working together on revising Cartographic Materials. All revisions are to be to Library of Congress by August 1994. The Committee is slated to meet in the spring or fall of 1995 and aim for a 1996 publication date for a revised edition of Cartographic Materials.

Greg Armento, liaison to MAGERT reported that programs for the upcoming meeting include mapping the Everglades and also a map cataloging workshop for non-map catalogers. J.K. Herro, liaison to CCISA, said they continue to have telephone conferences and that the Chris Baruth had distributed the letter endorsed by a number of map library organizations to directors of ARL libraries. CCISA is forming a subcommittee to look at ways of cutting down on duplication of news that comes from the various map library journals and MAPS-L.

Michael Noga and Riley Moffatt are WAML representatives to CUAC. Michael reminded members that any agency problems may be reported to them. The next CUAC meeting will be in November in Washington, D.C. and include a tour of NOAA. Three things that came out of the meeting at LC last fall were that the first version of the Digital Chart of the World that was supposed to be out this year will not come out this year. The USGS 15' quads are officially gone. DocEx is the best way to order CIA maps.

Muriel Strickland said the next SLA meeting will be in Atlanta the week of June 11. Charlene Baldwin is running for the Board of Directors.

Barbara Haner and Julia Gelfand spoke about IFLA. The last meeting was in Barcelona and Julia attended. Preservation issues were discussed, as well as new technologies that European mapping agencies are using for distribution. The next meeting is in Havana.

The Business Meeting was adjourned at 12:05.
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Fall 1994 Meeting

September 7-10, 1994

University of Wyoming / National Park Service Research Center Grand Teton National Park.

The Fall, 1994 WAML meeting will be held at the historic AMK Ranch which is now used as the University of Wyoming-National Park Service Research Center. Meetings will be held in the Lodge at the Research Center.

Planned papers include:
- Digital Preservation of Maps and Photos - Joe Burke, Visual Information, Inc.
- Mapping the Jackson Hole Region - Bill Resor
- Western Maps at New York Public Library - Alice Hudson, New York Public Library
- Panel Discussion on Automating Circulation of Maps - Julie Hoff, University of Kansas; Linda Zellmer, University of Wyoming and other volunteers.
- The National Spatial Data Infrastructure
- The Yellowstone Bibliography - Deborah Dawson, University of Wyoming
- Planning in Jackson Hole - Bill Collins, Teton County Planning Director
- Fire Management in Grand Teton National Park - Len Demm, GTNP Fire Management Officer
- Researching Yellowstone Place Names - Lee Whittlesey, Park Historical Archivist, Yellowstone National Park
- In the Highest Style of Art: A Publishing History of Yellowstone's Haynes Companies - Richard Saunders, Montana State University

For a registration packet, or further information about the meeting or lodging, contact Linda Zellmer at:

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Obtaining Aerial Photo Coverage for Historical Research of California

by

Rodney W. Brown
Map and Imagery Laboratory
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University of California - Santa Barbara

With the history of usable aerial photography now in its eighth decade, there is a wealth of data available to researchers wishing to compare "then" to "now". However, the lack of effective systems and databases available to discover and acquire these data makes early data acquisition an art of discovery involving extensive detective work.

The value of being able to compare conditions through time photographically has long been established, especially in plant species succession. Pioneering work by Homer Shantz (1928), Phillips and Shantz (1963), and Hastings and Turner (1965) recreated the locations and views of historical ground level photography to graphically document plant succession patterns through time.

These methods were use only in areas where historical ground level photography was available. More recent studies (Scheidlinger and Zedler 1980, Brown and Davis 1990) have shown the value of using historical aerial coverage to document species population dynamics over five decades. The time span of available aerial coverage is now sufficient to gather significant data on species dynamics and succession patterns over wide areas.

Origins of Historical Aerial Coverage

The earliest large-area coverage was flown beginning in the late 1920's and 1930's by governmental agencies and private photographic firms. Most early flights were flown using nitrate-base film. This film is notoriously unstable and deteriorates badly through time. Fortunately, a good portion of this early coverage survives today due to conversion to safety film or through paper print copies. There are cases, however, of coverage disappearing off the face of the Earth. It is heartbreaking to researchers to find tantalizing references in old documents to historical flights only to discover upon further research that the coverage did not survive the passage of time. A case in point is the early coverage by the New York office of the pioneering Fairchild Aerial Surveys. When Fairchild closed their New York office in 1958 and prepared to move all film to their California office in Long Beach, the film was examined. All the nitrate base negatives for all flights between 1923 and 1945 had to be destroyed at that time since it had deteriorated to the point of no longer being usable.

Researchers working in California are more fortunate in that the privately flown coverage has more often survived, and the governmental coverage starts earlier and is more extensive than in other areas of the country.

The California office of Fairchild Aerial Surveys flew significant portions of southern California as early as 1928, and large areas of southern and central California in the 1930's and 1940's. Much of this large area coverage was flown under contract to the U.S. Department of Agriculture for its early county flights. These flights survive today under the Fairchild flight designations at the Fairchild Aerial Photography Collection at Whittier College and the Map and Imagery Laboratory at the University of California, Santa Barbara. They are also available under the U.S. Dept. of Agriculture flight...
designations at the National Archives and Records Administration.
Most of California, with the exception of large portions of Inyo, San Bernardino, Riverside and Imperial counties, was flown by various governmental agencies by the late 1930's to mid 1940's. The majority of these flights were flown at 1:20,000 (1" = 1,667 ft.) and reproductions are available. The primary agencies that contracted these flights are listed below:

U.S. Department of Agriculture:
Agricultural areas were flown on a county basis under the Agricultural Adjustment Administration (AAA) in the 1930's and 1940, under the Production and Marketing Administration (PMA) in the 1940's and 1950's, and more recently under the Agricultural Stabilization and Conservation Service (ASCS) and the Soil Conservation Service (SCS). Forest and adjacent areas were flown under the U.S. Forest Service in the late 1930's and 1940's.

U.S. Department of the Interior:
The Bureau of Reclamation flew river, canal, and water supply areas in the 1940's. The U.S. Geological Survey also flew several areas of California in the 1940's. The National Park Service flew Yosemite in 1931, but coverage for most other National Park Service administered areas in California starts in the 1950's. Bureau of Land Management aerial coverage of California did not begin until the early 1970's.

Reproductions of all Department of Agriculture flights prior to 1950 are available from the National Archives and Records Administration. Reproductions of flights after 1950 are available from the USDA Aerial Photography Field Office in Salt Lake City. In approximately 1995, another five year chunk of flights (1950 to 1955) will be transferred from the Aerial Photography Field Office to the National Archives due to limited storage space.

Reproductions of U.S. Geological Survey flights are available from the EROS Data Center, although a few of the earliest flights are housed at the National Archives. Reproductions of Bureau of Reclamation flights are harder to acquire since this agency does not have well defined public access procedures. Some of its earliest flights were transferred to the National Archives, but the majority of early California flights are still held by the agency. Most of the film is either housed at the agency's Denver facilities or at the Sacramento office, but access is easiest by working through the agency's Sacramento office.

Accessing Data Records for Early Aerial Coverage:
The above information shows that early coverage is available for most of California. This is all well and good, but how can researchers discover what coverage is available for any particular research site or area? Unfortunately, the answer is: "with considerable difficulty." There currently is no comprehensive, reliable data base of early coverage that includes records of available flights from private and governmental sources. Researchers must search all available record sources and spend considerable time tracking down leads that may or may not be accurate. The best record sources are discussed below:

Aerial Photography Summary Record System (APRSRS): This ambitious system produced by the US Geological Survey comes the closest to being a comprehensive database of available governmental and private flights. It is currently available in both CD-ROM and microfiche formats.

Flights are listed chronologically within each section, which are arranged by the latitude and longitude of the southeast corner of each 7.5' quadrangle sheet in the state. Relevant information on date, scale, flight ID, film type, etc. is given for each flight.

The CD-ROM format allows searches to be limited by ranges of dates, scales, or film types, but this format is painfully slow. The CD-ROM version is still only available to US Geological Survey offices including their Earth Science Information Center (ESIC) offices and affiliates. It is planned for the CD-ROM version to become available to the general public sometime in 1994.

The microfiche format remains the easiest to access and scan for useful entries. Another drawback of APRSRS is that the listings give percentage of quad coverage for each entry with no further delineation of the area covered. If a flight is listed as covering 50% of a given quad, the researcher has no way to tell if the area of interest is inside the 50% coverage area.

Any database of this type is only as good as the data that is input into it. Unfortunately, APRSRS has significant problems with the accuracy and completeness of its data. Many entries are erroneous or misattributed.
For example, Whittier College and the University of California at Santa Barbara each hold parts of the Fairchild Aerial Surveys collection. Many flights held only by Whittier are listed as being at Santa Barbara in APSRS and vice versa. Some of the listings in APSRS seem to have been made from verbal flight descriptions rather than by plotting the indices or frames, leading to many errors.

Although touted as including most governmental flights, it is far from complete. Some, but not all, flights by the US Geological Survey, NASA-Ames Research Center, Forest Service, and other agencies are listed. Bureau of Reclamation flights do not seem to be consistently included.

Fortunately, APSRS is a dynamic system; updates are regularly produced, correcting reported errors and adding entries. It is hoped that holes in the historical listings will be filled as APSRS's contributors find the resources to enter collections not previously entered. It seems, however, that most of the new entries in APSRS are for new coverage, rather than cleaning up the data or filling in the holes.

Flawed as it is, APSRS remains the best first source of clues to historical coverage. The Earth Science Information Center (ESIC-W) of the US Geological Survey in Menlo Park will perform limited APSRS searches on request. Map libraries at each of the University of California campuses and Stanford have APSRS in either microfiche or CD-ROM format. However, due to budgetary restrictions, access may be limited or charged for at these campuses for non-UC users.

**Aerial Photography Micrographic Index System (APMI):** This microfiche set was produced by the EROS Data Center to provide access to their holdings of governmental flights. It is organized by the 1:250,000 topographic sheets. Within each sheet, it is also organized by scale, film type, and date. Of most use in researching historical coverage are the microfiche for medium-scale black and white block (large area) coverage.

Flight areas are plotted on copies of the 1:250,000 sheet and listings give the flight data. Copies of the flight photo mosaics are also included. This allows the user to identify the frame numbers needed or to verify coverage. Many of the older governmental flights, primarily by USGS and the US Army, that seem to have been omitted from APSRS are accessible using APMI.

This system includes only governmental flights held at the EROS Data Center. It is also now a discontinued system since EROS is no longer producing updates. EROS has produced a new on-line system called the Global Land Information System (GLIS). Currently, this system provides access only to satellite coverage, such as Landsat and AVHRR data. It is hoped that EROS will soon enter their aerial photography database to this system. Currently, the APMI microfiche and direct contact with EROS are the only access to information on these holdings.

Map libraries at all University of California campuses and Stanford hold complete sets of the APMI microfiche. As stated above, access by non-UC users may be restricted.

**Other sources:** University libraries are good sources of information for areas in which they are located.

The National Archives and Records Service produced *Special List #25: Aerial Photographs in the National Archives*. This lists coverage by county within each state. Although useful, this list was last published in 1973 when their holdings only went up to 1943. An incredible amount of coverage has been transferred to the National Archives since this list was last published. Also, the list will give information on whether a flight's coverage of a county is complete or partial, but if partial, there is no way to discover what parts of the county are covered from this list.

University libraries may also be able to provide access to agency catalogs of aerial coverage, such as those of the California Department of Transportation, the Bureau of Land Management, and the National Park Service. Although the emphasis of these catalogs is on recent coverage, they can also provide information on historical coverage when available. In many cases, on-line library catalog systems can be accessed by subject headings like: (PLACENAME)—AERIAL PHOTOGRAPHS.

The Map and Imagery Laboratory at the University of California, Santa Barbara holds a microfiche set of U.S. Department of Agriculture flight indexes from 1940 to the mid-1980's. This set can be very useful in locating coverage and identifying frame numbers. Other libraries may also hold this set.

At the Map and Imagery Laboratory, UC Santa Barbara, we recently uncovered a large blue line copy of a map entitled *Aerial Photo Coverage Map - California* dated February,
1949. This map outlines areas of the then most recent detailed aerial coverage for most of the state and lists the flight designations and agencies of origin. Although a couple of errors in flight area assignments have been noted, this map has proved to be an invaluable tool in identifying early coverage for several research projects.

The map legend states that it was prepared by C.E. Harlan, US Forest Service, for the Forest Survey, Division of Forest Economics, California Forest and Range Experiment Station. I have been trying for a year to discover who might hold the original of this map, if it still exists, and whether other editions also exist, without success. However, the recent discovery of this map demonstrates that there may well be other resources for access out there waiting to be rediscovered.

The county Surveyor’s Offices or Resource Management Departments of the counties within the project area often can be useful sources of early coverage. They usually have historical coverage on file. Although these agencies are not set up for providing copies, they can usually be persuaded to release frames to a local firm for reproduction. If this cannot be arranged, at least the coverage records can be examined to determine the probable location of the flight original.

**Letting Others Search for You**

Most holders of major collections will search for coverage within their collections for researchers. As stated above, ESIC-W in Menlo Park will perform searches of the APSRS database free of charge, and in a timely manner. Other searches by holders of collections often will mean significant delays in data acquisition.

EROS Data Center, the Department of Agriculture’s Aerial Photography Field Office in Salt Lake City, and the National Archives will all search for coverage within specified date and scale parameters at no cost. The researcher may either request point or area coverage information. Of these three agencies, EROS produces the fastest results, and the National Archives the slowest, with results often taking up to three months.

This is understandable, since the collections at the National Archives have increased exponentially in the past decade due to the transfer of a massive amount of coverage from the 1940’s, a growth not accompanied by a similar growth in staff or funding. The result is that often even the National Archives does not know what it has, which is unfortunate since the National Archives remains the largest holder of historical aerial photography. The National Archives has recently completed a move into new facilities. As a result, they are currently working on clearing a six month backlog of requests. It will be some time before it will be known if this move will improve request response times. It is recommended that response and delivery delays be taken into account when planning a project requiring coverage from governmental agencies in general, and the National Archives in particular.

Private collections will search their holdings in a more timely manner, sometimes at a cost. The Fairchild Aerial Photography Collection at Whittier College charges for searching, and its reproduction charges are quite high, but results can be obtained quickly. The Map and Imagery Laboratory at UC Santa Barbara will search its collections free of charge for University of California researchers doing UC research, and for a fee for non-University of California researchers. Reproduction costs through a local firm are more expensive than governmental sources, but reproductions can be obtained quickly.

**Conclusion**

It will probably be some time before an acceptable database of early coverage is available. In the meantime, obtaining historical aerial coverage remains a time-consuming and often frustrating endeavor that can yet produce rewarding results.

It is strongly recommended that enough lead time be provided when planning a project to obtain aerial coverage from governmental sources when available. The coverage is more extensive and the reproduction costs are very low. Private collection sources can be very useful when substantial lead time is not available, the budget can afford the higher costs, or when alternative coverage cannot be located.

A listing of primary sources is included below. This listing is not meant to be complete, but includes all sources mentioned above. For a more comprehensive listing, refer either to the source listing that accompanies the APSRS database or make inquiries at the nearest large map collection.
Sources
Aerial Photography Field Office
USDA-ASCS
2222 West 2300 South
Salt Lake City, UT 84130-0010
(801) 875-3503

Bureau of Reclamation
Mid-Pacific Region
2800 Cottage Way, Federal
Bldg. Room W1324
Sacramento, CA 95825
(916) 978-5015

EROS Data Center
Sioux Falls, SD 57198
(605) 594-6151

Map and Imagery Laboratory
Library, University of California
Santa Barbara, CA 93106
(805) 893 2779

National Archives & Records Administration
Cartographic & Architectural Branch
Washington, DC 20408
(703) 756-6700

National Park Service
Denver Service Center
Technical Information Center
12795 West Alameda Parkway
PO Box 25287
Denver, CO 80225-0287
(303) 969-2130

US Geological Survey
Earth Science Information Center (ESIC)
345 Middlefield Road, MS 532
Menlo Park, CA 94025
(415) 329-4309

Whittier College
Fairchild Aerial Photography
Collection
Geology Dept.
13400 East Philadelphia
Whittier, CA 90608
(310) 907-4220

Literature Cited


Cataloging News
• If you’re on OCLC and have some questions about cartographic materials as far as format integration is concerned, the contact person seems to be Ellen Caplan (ellen_capan@oclc.org)
• Yes, Virginia, there is a country called Priamia and the new code is as
• If you haven’t seen the April 4, 1994, issue of the New Yorker, do so; the main article/essay in it is on library catalogs and how the hardcopy versions need to be preserved as artifacts. It’s called, “Annals of Scholarship: Discards,” by Nicholson Baker (who IS this person?), pp. 64-86. Entertaining reading - especially such parts as the one where he notes the errors in on-line catalogs (which certainly do exist), implying that the hardcopy versions are error-free!
• Your Editor, as WAML’s representative to the Anglo-American Cataloguing Committee for Cartographic Materials, met with Dorothy McGarry (SLA’s representative) the day prior to ALA Midwinter, in Los Angeles, and went through ALL of the first edition of Cartographic Materials, noting errors and changes that need to be made.

Elizabeth Mangan, who is in charge of the Secretariat for AACCMM continues on p. 1/5
A Midwesterner Travels Through the West: A Most Interesting Nine-Year Association with the Association

by

William E. Studwell

In some ways, it was a strange association. A person born and bred in the New York area and working in the Midwest became a frequent contributor and then a Contributing Editor to a journal whose primary audience is in the western United States and western Canada.

Although the WAML IB proudly serves all of the U.S. and Canada, and beyond, it has been somewhat incongruous that a homebody who has never even been to any of the states and provinces in WAML’s principal region has had such a long affiliation with the organization. And especially since this person is not a map librarian and only occasionally a map cataloger!

Yet as curious as this relationship may seem, it is no more odd than this same person - who is neither a music librarian nor a trained musician - being recruited to edit a music-librarianship journal (Music Reference Services Quarterly). Nor is it any more odd than this same person, who had a significant speech handicap (aphasia) as a child, being a continuing radio and TV personality, even in national media.

The somewhat unusual nature of the relationship has not meant that both sides - journal and author - were any the less for it. I have thoroughly enjoyed working with the IB, and I sense that the feeling is mutual. Both the role of article contributor under the editorship of Larry Curse (1985-1989), and the role of Cataloging Editor under the editorship of Mary Larsgaard (1989-1994) have been quite beneficial for me. I have never personally met either Larry or Mary, but it has been very good working with both or them. One of my fondest memories is the many laughs that Mary and I have had in the course of our crazy correspondence.

But it is time to move on and let someone else take my place. Nine years is long enough to inflict any journal with my writings, especially almost every issue in the past five years has included one or more pieces by me. I am at this time also ending a somewhat similar five-year relationship as monthly columnist and article contributor with Technicalities, also for the same reasons. In addition to the length of the association, other reasons for my departure are declining health (chronic fatigue/immunodeficiency syndrome, and several other lesser autoimmune diseases), plus an urge to pursue avenues outside of librarianship.

The break with the IB may not be total, for - if the Editor is willing - I shall continue to contribute some articles and/or be an advisor/consultant to the journal as and if time and health allow. My role will be diminished, but my heart and mind will not allow a complete separation for a while.

It’s been a very good nine-year adventure in map-library land. Thank you for allowing me to visit your journal home for such a long time.
Developing an Historical Cartographic Database for Accessing Local History

by

Joc Crotts
Debbie Besnard
California State University
Chico

Joe Crotts is Map Librarian and Debbie Besnard is Map Assistant in the Meriam Library, California State University, Chico.

The authors wish to acknowledge Gary Robinson, Geography Student, and Jeannie Graham, Library Assistant, for their assistance in preparation of this paper.

"Old maps can be fascinating ... (they) can teach us much about past nations” (1). Equally true in application to smaller, local areas, "The cartographic record documents the growth...of knowledge about human settlement and spatial behavior” (2).

"My sense of place has been formed by the many local geographies that have been and remain...” noted western historian W H (“Old Hutch”) Hutchinson (3). The natural and cultural patterns of landscape depicting the geography, be it historical or contemporary, of a place, are best illustrated, and, especially for times past, almost exclusively preserved, in the form of maps. Occasionally, the map may constitute the entire and only record of settlement available “... and hence has great economic and legal significance” (4).

Local government agencies are frequently primary repositories of cartographic resources endemic to their territorial jurisdiction and geographic region. Unfortunately, these resources, existing largely in manuscript as well as published form, are seldom accessible, or, for that matter, even known, to amateur and professional researchers alike. Hidden deep and often forgotten in dusty corners and antiquated cases, shoved into store rooms, they and the unique one-of-a-kind data they portray are easily overlooked by virtue of their sheer volume in numbers as well as a characteristic and almost universal lack of any discernible state of organization. Needless to say, these archival resources seldom receive due process in light of their uniqueness and the valuable contributions they potentially can and do yield as tools for investigation into local history and regional growth and development.

"In recent years there has been an enormous growth of serious interest in local history....” (5). An emerging appreciation of place-oriented studies has created among scholars and laymen alike the desire to derive insight “... into the growth of the locality and the development of its institutions ... by fieldwork ... and the examination of original records” (6). Investigators, not content with relying upon the limited and incomplete resources frequently held in local public and higher education libraries, are combing the offices, halls and storerooms of municipal and county buildings in search of each and every minutiae that might surface and provide another link in the unfolding chain of events comprising local history. "A gradual, yet perceptible, increase in the seriousness of the approach to history...” (7) is being realized by harried and overworked bureaucrats who are, at times, overwhelmed and not infrequently perturbed at the increasing ingress upon their heretofore quite orderly daily regimen by increasing numbers of local sleuths in search of historical fact, and sometimes a little fiction too.

University librarians, in their attempts to project an image of relevancy, along with improving that all-important local town-grown relationship, “are increasingly finding it desirable to create selected collections relevant to the history of their
region” (8). As the past Civil War retooled war-time cartography into mapping better suited to meeting the needs of a nation undergoing intensive settlement of explored areas and intensive exploration of unsettled areas, the tremendous surge in cartographic documentation inherent in the records of municipal, county and regional bureaucracies ultimately yielded a “vast increase in the amount of research material made available in recent years (and) opened a wider field to the professional historian (as well as) to the student and the amateur historian” (9). Universities are realizing “...the need of residents for conveniently accessible local collections” (10) and are responding by becoming conscious of the need to acquire, and if this proves unattainable, to at least identify comprehensively all available local resources, and in doing so assume the role of an “exhaustive information service for all appropriate inquiries.” The contents of the library should be as comprehensive as possible for all materials of record appertaining to the locality. The aims of a local studies library are quite simple. It should serve the locality in the same manner as a national library serves the nation” (11).

The Place

Butte County is a rural county in northern California located midway along the Sacramento Valley, with boundaries extending eastward from the river, across a broad flat floodplain and climbing over a mile high into the Sierra Nevada Range (Fig. 1).

Predominantly rural, the county is dotted with small but rapidly growing towns. Historically the economy has

Figure 1. Butte County, California.
been land based. The discovery of gold in 1848 spurred rapid settlement. Timber and vast agricultural enterprises increasingly predominated after the turn of the century. Light industry, a strong service sector and retail merchandising have expanded tremendously in recent years as the urban population soars. A state university dating back over 100 years and a community college together draw over 25,000 students to the area and sustain cultural resources and economic opportunities uncharacteristically rich among the "cow counties" of northern California.

Butte County remains thinly populated, with some 185,000 residents spread over 1037 square miles. Population density is 113 persons per square mile, with nearly 2/3 of residents "crowded" into 5 growing urban areas, led by Chico with some 70,000 residents in its urban sphere of influence. Traditionally an agrarian society, the population is, by California terms, relatively sedentary and replete with "old timers," as nonagarian newcomers arrive and settle for good alongside "the locals" who tend to stay put.

A strong sense of history has long prevailed among the long standing residents and increasingly among newcomers alike. Locally based historical societies, centered around the small towns, together with the county-wide Butte County Historical Society and increasingly active genealogical societies, are winning over more and more aficionados bent upon making serious and not so serious inquiry into past events of local interest. Academic historians from the two colleges have joined the local gentry and added a bit of refinement to investigative technique and documentation.

Like that of rural counties throughout California, local government has never been blessed with even minimally adequate funding. County records, especially in times past, sorely reflect this penury, and are seldom adequate to begin with, let alone preserved in adequate form and number to provide comprehensive and accurate insight into what was, where and when.

Butte County is no exception. Historical records are sparse, disparate, and unorganized, occupying distant and remote corners and dust-covered cabinets and cases as obsolete as their contents are old. Where found, they frequently tend toward the incomplete, and poorly maintained. Organization of "this old stuff" is virtually nonexistence. Upon inquiry, the typical reply one may receive is "Nobody here knows much about 'em. We haven't messed with 'em since Ms. So and So, the former registrar, retired over 30 years ago. If you wanna go through 'em, go right ahead, but you can't take 'em outta here" (suddenly they're valuable county property).

A researcher's nightmare? or an investigator's dream? A challenge to all, certainly. Bringing to light the very existence and exposing the wealth of information contained in the cartographic records portraying the Butte County of years-gone-by proved to be a most unique and elucidating exercise, blending an assemblage of antiquated data with the modern technology of information manipulation and management.

**The Project**

The goal of the project was to provide logical and efficient access to older, historical maps held in the Recorder's Office of Butte County, California. To achieve this goal, several obstacles were encountered, and it became necessary to proceed according to a series of objectives (Fig. 2):

- A. Identify resources;
- B. Restore resources;
- C. Duplicate resources;
- D. Preserve resources;
- E. Organize (catalog) resources;
- F. Index (database) resources.

![Figure 2. The Project.](image-url)
Project Overview

Plat maps held in the County Assessor's Office were repaired, retouched, duplicated and preserved (uncapsulated) by the University Library. The original maps along with blowback negatives, mylar and blackline copies were returned to the County. Blueprint copies were generated from the mylar and deposited in the Library. Worksheets detailing designated data appearing on the maps were completed for the cataloging process by university students and staff. This catalog data was input into the computer database (index), designed at the University. The index will be located at the University Library and the County Assessor's Office.

Staffing was provided by the University and included:

A) A library assistant (maps) served as the Project Coordinator under the general direction of the Map Librarian and the Special Collections Librarian.

A library assistant in Special Collections assisted the coordinator;

B) A graduate student in geography served as the Program Developer and selected the software and designed the database;

C) Four geography and two history students served as interns and were largely responsible for physical processing and completing catalog worksheets. The interns received course credit of 1-3 hours per semester at the rate of 40 hours per semester per credit hour. The interns served two semesters.

Funding was provided through a grant of $30,000.00 by Butte County. The grant supported materials and duplicating costs.

The Maps

867 maps were processed. The maps were located in the County

Figure 3. Plat Map.
Recorder’s Office, stored in 13 large and quite cumbersome canvas covered books. Primarily “plat maps,” they portray a variety of cultural and physical features at large scales, ranging from 1:100 to 1:8000, and chronologically extend from 1860 to 1930 (Fig. 5).

All maps drawn prior to 1931 were included in the project. Plat maps issued after 1930 and new maps will be processed gradually pending the availability of personnel and monetary resources.

Maps ranged in size from very small to very large, and many were repeatedly folded. The maps were dusty, dirty, torn, faded and in various stages of degradation. Some were literally crumbling away. Only until recently had they been stored in an artificially cooled environment. Access to the maps was accomplished by picking one’s way through the books in essentially a “needle in a haystack” fashion. There were no access tools other than a few old hand scribbled lists of selected maps.

**Restoration and Preservation**

Restoring and preserving the maps prepared the maps for the indexing process as well as for: a) permanent storage in county offices; b) facsimile display and deposit at local and remote sites; and c) duplication for public distribution.

Several objectives were accomplished during the restoration and preservation processes:

A.) Maps were removed from the books, cleaned and repaired, and then encapsulated in .003 clear archival quality polyester. These originals have been transferred to a vault in the County Recorder’s Office.

Cost: $10,075.00 in materials (excluding the vault).

B.) Maps were photographed by a commercial printer, and blow-back negatives were produced and then retouched by geography student interns. These negatives will also be stored in a vault, separate from the original maps in the County Recorder’s Office.

Cost: $2500.00.

C.) A full-size, blackline copy on 25 year archival quality mylar was generated from each negative. These mylar copies are held in the County Recorder’s Office. Blueprints can be generated on demand from these mylar for public distribution at a county set fee of $6.00 each.

Cost: $9000.00.

Blueprint copies were generated at no cost from these mylars and deposited in the Meriam Library Special Collections.

D.) A second full-size, blackline copy on paper was generated from each negative. Each copy was checked and re-inked as needed, and all areas of the copy were inked in colors to match the original maps. Each “blackline” was encapsulated in .003 clear archival quality polyester. These “enhanced” blackline copies are stored in flat map cabinets in the County Recorder’s Office and are used in place of the original maps for public access.

Cost: $450.00 for generating blackline paper copies.

$7500.00 for re-inking, coloring and encapsulating.

The total cost for restoration, preservation and duplicating was $29,525.00.

Once the maps were identified, restored, preserved and duplicated, the next step was to document the contents of the maps as well as the areal coverage of the maps and organize the data in some logical and useful manner capable of being manipulated according to client perception and demand.

**Cataloging**

The cataloging process entailed extracting set categories of data from each map and entering the data on a worksheet designed for this project (Fig. 4). Catalog data was taken from the blueprint copies deposited in the University Library.

The worksheet was designed to include data specified according to input received from 1) local area researchers, primarily historians and geographers; 2) local surveyors; 3) the County Assessor. Final selection of data components included those components suitable (per local programmers) to computer input and manipulation. Reusable descriptors include:

A. Butte County Recorder’s Office ID number.

B. Complete title of map.

C. Concise or other title on map.

D. Community to which the map refers.

E. Date the map was made (drawn or published).

F. Location in terms of township, range and section.

G. Surveyor’s name.

H. Physical description of map: size and scale.

I. All place-names and personal names appearing on the map.

J. Notes identifying or describing any unique features of the map.

K. Name of person requesting the recording of the map.
L. Date the map was recorded.
Time required to analyze a map and complete a worksheet averaged 15 minutes. Worksheets were completed by geography student interns. Once completed, the worksheet was reviewed by two library staff reviewers who are assigned to Maps and Special Collections. The “item record” is now ready for inputting into the computer database.

**The Software**
The software package supporting the project is *Oracle Card*.
*Oracle Card* is a high-level interface on conventional RDBMS (Relational Database Management System). This interface allows fast development of graphical client-server applications. It also allows the use of flexibility and power of lower level RDBMS functions.

It works identically on MS-Windows (PC) and Macintosh environments.

*Oracle Card* is uniquely designed for efficiency in manipulating

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<table>
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<th>County Recorder No.</th>
<th>Call No.</th>
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<tr>
<td>Surveyor</td>
<td>Community Name</td>
</tr>
<tr>
<td>Date</td>
<td></td>
</tr>
</tbody>
</table>

**Complete Title of Map**

**Township/Range**

**Physical Description**

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<th>Notes</th>
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</thead>
</table>

**Names-Personal and Place**

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<tr>
<th>Person Requesting/Date Recorded</th>
</tr>
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</table>

**Figure 4. Catalog Worksheet.**
graphically representable databases. It has proven an ideal application for a geographical database with graphical interface to a map. The program can be configured to accept queries on place-names, townships, and other levels of abstraction. It has the capability to list qualified items by identifying tag and to display the items. Consequently, this form of interface can provide precise information regarding a place by text, and its location relative to other places through graphical illustration.

The Index

Maps are retrievable by two search options: topical and geographic. The item (map) record generated by either method resembles the worksheet (Fig. 4). The County Recorder Number provides the link between the item record and the actual item, or facsimile. The option is available to substitute or supplement the County Recorder Number with LC classification or any indexing notation that applies to the map database. Searches that produce multiple hits will return only the County Recorder Numbers of the tagged items, requiring the additional step of either calling up the full item records until the desired record is retrieved or repeating the search and inputting additional parameters to better define the search.

Topical Search Option

Map records are retrievable by entering any and all fields (elements) of data appearing on the worksheet and input into the database, with the exception of “Notes.” Data may be entered singly or in any combination. Consequently, an item may be searched by any personal or place-name(s) appearing on the map, and/or by community, date, township, range and section, title, surveyor, scale, size, and/or County Recorder Number. Entering more parameters will generate more specific searching of the database.

Data need not be complete to generate searches. Entering “T18N” along with “Scale 1:7200” will tag all maps of that scale located in Township 18 North. Should multiple items be retrieved, only the County Recorder Numbers will appear, and to continue the search, the user must call up the full record of each or narrow the search by entering, perhaps, the Range along with the Township or some other data element(s).

Geographic Search Option

Map records are retrievable by identifying the location of the map on Index Maps (Fig. 5).

Separate index maps cover each town having a population exceeding 1000. The remainder of the county is accessed through a county-wide “Non-urban Index Map.” Dots distributed on the index maps identify the location of existing maps. The item record is generated by positioning the cursor on the dot covering the desired location and double clicking. A dot may cover more than one map, and, as occurs in a topical search when descriptors entered generate multiple maps, the County Recorder Numbers of the tagged records appear rather than a single complete item record. The user must call up the full record from the County Recorder Numbers.

Benefits of the Project

The University and local County government have realized numerous benefits from the Project. Overall, advantages in the form of dramatically broader and more in-depth service have accrued to:

A. The University Archives and Map Collection and the faculty, students and extended community of users the University Library serves;

B. Local Government, and more specifically, the County Assessor’s Office, and the ever growing clientele of local historians and genealogists who have come to rely on local government records to provide names, places and dates from the past.

Primary benefits to the University, Local Government, and their clientele are:

1. Resources previously unknown to the University and poorly known to local government were identified, organized and inventoried;

2. Resources were restored and preserved in their original state;

3. Resources were reproduced and facsimiles made available to the University and County government for staff and public use;

4. A record of these resources was documented and entered into a retrievable database.

5. Accessibility to these resources was extended to the University and dramatically upgraded for the County.

Conclusions

In the course of conducting the project, contributions to cartography have been realized along two distinct but interdependent trends in investigation and documentation. A model for the storage and retrieval of cartographic records has been designed, and a repository of cartographic information has been documented and made accessible.

The project generated multiple benefits for the University Library,
Figure 5. Geographic Index Map of Chico, Butte County.
the County Government, and the geography graduate students who served as interns in conducting the project and received credit toward graduation.

A valuable cartographic resource that was previously in a state of near total obscurity and undergoing rapid deterioration has been preserved, and documents made easily available to scholars, students and the general public at a regional university and in county government offices. These resources have been organized, documented and indexed to allow for efficient topical and geographic (areal) access to descriptive records identifying and partially substituting for the original source material.

The source material has been reproduced to facilitate display and usage at the host and remote sites. Users at the University and County Seat are provided access to the database as well as access to ticsules of the source material, and, upon request, the original source materials may be viewed in the preserved state at the County Offices.

Geography graduate students serving as interns received the opportunity to gain skills in map reading as well as in map restoration, preservation, and duplication. The interns worked closely with the Geography Department's Cartographic Technician and were instrumental in developing protocols for inputting, manipulating and retrieving data through the Oracle Card program.

The project served as their initial encounter in thinking of information in terms of intellectual content conducive to organization and accessibility. It was their first real experience at critically analyzing information with the intent of identifying and transferring data to an automated manipulative package capable of configuring data into a retrievable record. In typical grad-student fashion, they had become expert at interpreting data, but had acquired precious little awareness of the underlying need for documenting material in a manner providing for retrieval of data at some later date. Their academic career as end users of information had been expanded into the realm of documentation and retrieval, and they concluded the project having gained an appreciation of cartobibliography as well as playing a major role in effecting valuable contributions to the preservation of original resources and to the methodology of information documentation and retrieval.

Thus, success has been realized by all entities involved, and benefits will extend to the general public and local area researchers as well as they seek whatever resources the University and the County has available to aid their investigations. From the educational process through which student interns progressed, to the increased facility with which users of the maps can locate them, and ultimately to improving that all important "town-gown" relationship between County and University, the project brought people together, utilized their expertise, trained them further, and generated a valuable tool for use by academicians, local government and the public.

References

2. Ibid.
6. Ibid, pp. 16-17.
7. Ibid, p. 15
10. Nichols, p. 75.
11. Ibid. p. 10.

Preservation

*Conservation OnLine (CoOL) is available via Gopher as well as WAIS. CoOL, a project of the Preservation Dept. of Stanford University Libraries, is a full-text database of conservation information. The databases cover a wide spectrum of topics of interest to those involved with the conservation of museum, library, and archival materials. To use CoOL, point your gopher to palimpsest.stanford.edu (port 70). If you are using a public gopher client, be patient; it will be a while before CoOL appears on the menu. Items on CoOL include the archives of the Conservation DistList, the Newsletter of the Western Association for Art Conservation, a variety of disaster- Continues on p. 175
An international conference celebrating the opening of the
Osher Map Library and the Smith Center for Cartographic Education,
the first separately established rare map library in northern New England.

READING THE WORLD:
Historic and Contemporary Perspectives on Maps

October 14-15, 1994
Holiday Inn by the Bay
Portland, Maine USA

Keynote Speakers include:
David Woodward, professor of geography, University of Wisconsin, Madison and editor,
The History of Cartography series
John Noble Wilford, New York Times science columnist and author of The Mapmakers

Other presenters will include Denis Wood, professor of design, School of Design at North Carolina State University, Raleigh and guest curator of the Smithsonian exhibit and author of the book, The Power of Maps; and Anne Godlewska, assistant professor of geography, Queens University, Kingston, Ont, Canada.

There will also be a dealer exhibition and sale at the Holiday Inn during the conference.

Enjoy an international meeting of fellow scholars, curators, collectors, and map enthusiasts.

THE LIBRARIES OF THE UNIVERSITY OF SOUTHERN MAINE
University of Southern Maine

Registration and accommodation reservation deadline is September 15, 1994.
For more information or to receive the conference mailing registration please call
(207)780-4542 or 1-800-800-4USM, ext. 4542, or fax to (207)780-4836.
Atlas and Book Reviews

edited by

Greg Armento
California State University
Long Beach


Kenneth C. Martis has done it again. Already the author of two pace-setting and award-winning works of Congressional historical geography, Martis has collaborated with Gregory A. Elmes, his colleague at West Virginia University, and produced the Historical Atlas of State Power in Congress, 1790-1990. Following a well-written preface which sets the stage, the book is divided into three basic sections: an historical overview, the twenty apportionments since the 1790 Census, and four case studies which reflect the political impact of shifting population during key historical eras. Thirty-three colored maps clearly show the apportionment patterns of two centuries of population growth and the shift in state, regional, and national power in the House of Representatives.

In every high school civics class, students learn that the House of Representatives is the only organ of the federal government which has always been directly elected by the eligible voters since the First Congress was selected in 1788. The primary reason for the decennial census is to determine the population of each state so that representation in the House can be accurately apportioned. The authors note that while Congressional "power can be measured and exercised in many ways, the size of a state's delegation is one of the most basic measures of political power and influence" within the House. [p. 4]

Colored matrices and maps vividly show the gain, loss, or no-change in seats; and the increase, decrease, or no-change in power for each state in each apportionment from 1790 to 1990. [There was no apportionment in 1920]. As a percentage of the House, nine original states had their peak in proportional power in 1790. The high for Virginia that year was 18.12%. No state since has equaled that percentage of power. With its 52 member House delegation [out of the current 435 members elected by the 50 states], California's low was in 1850, the year it became a state. It reached its high after 1990 with 12% of the House. California is the only state which has grown in Congressional power after each apportionment.

The self-imposed membership ceiling of the House was increased until 1911 when it was stabilized at 435 members following the 1910 Census. With a floating ceiling as a result of Congressional accommodation during the 19th Century, states could maintain or even gain seats and still lose power.

The Martis-Elmes work is a superb teaching tool for college and high school students, but its impressive graphics can also be understood by those in elementary school. As they study the westward expansion of America, students can easily follow the shift in political power to the West and the decline of the eastern seaboard as the migration moves over the Appalachian Mountains into the Mississippi Basin and across the Great Plains [see special colored bar chart showing the Percentage Change in House Seats for Original and New States 1790 through 1850]. From 1870 through 1950, the authors illustrate the percentage loss and gain by region [North, Border, South, and West] and — later — for 1960 through 1990, by Snowbelt and Sunbelt [Southern, Southwest, and Pacific Coast] states.

Especially helpful to students of the apportionment process is the clear citation of the relevant laws from 1792 to 1941 [p. 17], the five different apportionment formulas which have been used [pp. 23-24].
and the various electoral arrangements of the states before settling exclusively on single-member districts [pp. 24-28].

Students of the period before and immediately after the Civil War will find particularly useful the detailed tables and maps of the specific census apportionments from 1790 through 1870 [pp. 31-69]. Colored bar charts show the percentage House loss and gain for each Slave and Free state from 1790 through 1890. It is also a marvelous book for players of "Trivia." For example, Louisiana was the first non-contiguous state (1812) since Mississippi was not a state until 1817, but the first showing on a decennial apportionment map is California (1850) — appearing rather lonely on the Pacific Coast — many miles from Texas. Gold does strange things.

By 1990, the authors recognize "the exodus of middle-class, well-educated Californians" whose leaving for other states has been simulated "by increased demands on struggling public services, increased crime, deterioration in the environment through crowding and pollution, and perhaps racial tensions." [pp. 110-111]. The authors have overlooked the actions of the state legislature with regard to environmental and workers compensation policies which have led to tens of thousands of jobs being moved to other states in the West and Midwest.

Perhaps the primary cause for the last two decade gain in House seats for California is mentioned on page 111 [footnote 108]: "As illegal immigration is impossible to estimate accurately, the contribution of "undocumented aliens" is unknown." The authors cite another study in the same footnote, which claims that the range of California, Arizona, and New Mexico net illegal immigration is from 80,000 to 250,000 per year. Those of us who have held the relevant Congressional hearings have received Border Patrol estimates of several thousand illegals a night coming over the border in the San Diego sector alone. There is also a good summary of the sampling errors which have occurred in the past two decades including those in minority undercounts and their possible effects [p. 114] and the forecasting errors [pp. 115-116].

The authors argue that despite party, ideology, and seniority, "it is the size of a state's delegation that counts." [p. 122]. In most cases they are correct, but the functioning of the California delegation between 1985 and 1992 is proof that size alone is not enough. For eight years, the delegation did not work together on a bipartisan basis. Democrats and Republicans met separately. That was not true of any other state. The job losses in Defense have brought them together.

At times in American history, different state, regional, and sectional politics have determined legislative outcomes, party control of Congress and the election of a President. Four case studies [pp. 126-179] pull together the various threads and trends: (1) Western expansion's effect on the Congressional power of the original 13 states and the new states west of the Appalachian chain; (2) the relative loss of power of the slave states to the North; (3) growing urbanization and industrial power overcoming rural obstacles between 1910 and 1930; and (4) the migration from Snowbelt [also known as Rustbelt] to Sunbelt. Tables which can enliven class discussion or simply enhance one's understanding are generously provided to focus each case study, e.g., "Factors of Westward Migration, 1790-1850" [Table 3-3, p. 130] which includes national trends and the pull and push factors which relate to the economic, physical environment, government policy, technology, social and demographic considerations over that sixty year period. Besides the table, there are succinct, well worded summaries which remind and integrate one's past knowledge from a political geographer's perspective.

In summary, Martis and Elmes have told and displayed their story very well. The typography by CQ is excellent. Only one slight criticism is the index, which might have identified alien populations [p. 154], foreign immigration [p. 156], and undocumented aliens [p. 111] which are key issues affecting future apportionments.

Stephen Horn
Member of Congress
(Review Editor's note: Mr. Horn, a Trustee Professor of Political Science, was President of California State University, Long Beach from 1970-1988. He now represents California's 38th Congressional District.)


The Census Bureau has been steadily expanding its electronic publishing since the 1960's and adjusting its questions and methods in
response to an increasingly diverse and growing population and in response to changing social needs (for example, adding questions on disabilities or the homeless). In the last several years, they have addressed these challenges while having to control and reduce costs. One of the casualties of the coincidence of limited budgets and sophisticated GIS technology has been maps in print format.

Mattson created the *Atlas of the 1990 Census* to fill a crucial gap in tools for census users and libraries with GIS capability. The content is taken, for the most part, from the initial release of “short form” census data, that is, data collected from everyone (100% sample) and available electronically as Summary Tape File (STF)-1A. The topics available from STF-1A cover age, sex, race, Hispanic origin, marital status, household characteristics and housing data such as average value. He also has included a selection of other important data such as immigration, births/deaths, per capita income, economic censuses (for 1987), and education.

The atlas is organized into six broad topic areas: population, households, housing, race & ethnicity, economy, and education. Within each, there is a brief text introduction and a multitude of maps and statistical graphics. Each section includes national/state maps comparing 1980/1990 data and regional maps with county outlines.

The regional portions include tables with precise figures for the region’s top ten counties and major cities. Mattson wisely included 1980/1990 comparisons of housing value at the county level as well as at the national/state level.

Occasional “bonus” maps are well selected; for example, Native American reservations show with unemployment by state and a world map portraying countries of origin for immigrants from 1971-1989.

Graphically, the choropleth maps are presented clearly in attractive colors which display well on the high quality paper. A wide variety of colors are used throughout the atlas although most maps use four closely related colors and light grey.

I find the page layouts, however, to be quite crowded. A typical regional layout on a 12” by 10” page includes the multicolored patchwork of county outlines for several states and the white space is nearly filled with the listings and data for top ten counties and major cities. National layouts typically include two national maps with legends and high/low range notes, a listing with data for all 50 states, and a brief sentence summarizing a change from 1980 to 1990.

The crowding can, however, be seen as a necessary evil to pack a wide variety of information into a competitively priced volume. For clarity reasons, the counties are not named on the choropleths; it is a minor inconvenience to have to check county locator maps at the back of the book. The basic glossary at the back is a wonderful plus for inexperienced census users.

I am much more concerned by the lack of systematic source citations. It is reasonable to omit citations for data taken from STF-1A; it is not reasonable to omit citations for the data taken from other sources. All but the smallest libraries are likely to have the resources to locate probable sources but they should have been consistently provided. Source citations also will be important to evaluating subsequent volumes.

Specific plans for updating the atlas are not clear from the text; the publisher reports that no new edition is in their queue [telephone inquiry, April 1994]. The introduction states, “In subsequent printings ... other information will be included as it is made available... Until such time, surrogate data from census related sources have been mapped.” On behalf of patrons and libraries, I certainly hope he means subsequent distinctive editions so we don’t have to wonder when it has been revised. The majority of census data gathered through sampling has now been released electronically; hopefully a revised edition is in the planning.

My background in Reference and Government Publications has been predominantly with inexperienced census users. Based on my observations, the content is well selected and the maps and statistical graphics useful to a wide variety of people. On the whole, I recommend this atlas for any library which provides basic demographic and economic data to its clientele.

*LaVonne Jacobsen*

*Social Science and Documents Reference Librarian*

*San Francisco State University*

*San Francisco, California*

**Military Living Publications.**


*Assignment Washington II Military Atlas : Maps & Charts of Washington Area Military Installations* Falls
The United States Military Road Atlas is a perfect-bound soft-cover atlas and, at 39 cm., about the size of a typical road atlas. What makes this atlas different from other road atlases is that over 500 military bases are clearly indicated with separate symbols for Army, Navy, Air Force, Marine Corps, Coast Guard and NASA installations. While designed for military personnel who are travelling for business or pleasure, it is also an excellent reference source for answering those awkward questions about the location of a particular military base. Airports are also noted in detail, with different symbols for airports with military significance, municipal airports and international airports.

The atlas is organized by region (Northwest, Great Lakes, Northeast, Southwest, Central, Southeast, Far West & US possessions). In addition to the index map on the title page, there is a Table of Contents (on page 11) to make locating a particular state easy. Providing a generalized overview of the location of military installations is a double-page "United States Military Installation Road Map" which indicates military bases in all fifty states as well as Guam and Puerto Rico; twelve city inset maps are also included.

Each regional section begins with an aerial photograph appropriate to the region and a page of tourist information before the state maps, continues with city maps (usually with more descriptive text), and ends with military travel data (explicit highway directions and various base telephone numbers). There are special indexes listing civilian airports, military RV, camping & rec areas, Space-A air opportunities, and temporary military lodging organized by state.

The atlas ends with a two-page distance mileage chart of military installations and an eight-page index. The index is noteworthy because it is organized by state with the military bases listed in alphabetical order first, followed by the alphabetical listing of the cities. On page 123 is a brief but very helpful list of general (common?) military abbreviations used in the atlas.

The maps, designed and produced by the well-known University of Maryland Baltimore County Cartography Laboratory, are very clear and readable except for the brown screen used for the names of National Monuments and Indian Reservations. These are not always properly registered, giving a fuzzy or blurry look to some of the place-names. This has a tendency to be more of a problem in states with many reservations or monuments, barely noticeable in those states having fewer such entries.

The individual states are designed to fit a single- or double-page spread; thus scales vary from state to state. The highways are clearly marked and extend into adjoining states, which are shown in grey. The city maps are simplified but adequate for the person who only wants to get through them or locate a specific military base. There is a small amount of advertisement, usually for military recreation facilities or Military Living's other publications.

Assignment Washington II Military Atlas: Maps & Charts of Washington Area Military Installations is a smaller, staple-bound atlas which illustrates the physical layout of seventeen military bases in the Washington, D.C., area. The centerfold is a map of metropolitan Washington showing the location of the military bases and an inset map of central Washington; an alphabetical index of military installations, government buildings and memorials is also included.

The contents listing on the front cover is organized by state (District of Columbia, Maryland, Virginia) and the bases are then listed alphabetically. The index on page 3 is organized by service (or subject). Therein one can find that the Pentagon is the only base that has a camera shop, a drug store, a jewelry shop, a news stand, and a pastry shop. One must assume that these functions are carried out on the other bases in the convenience stores or commissaries. Still, it provides a fast method of access to the location of services that might not be equally available at all installations.

Each map fills a page and on the facing page there is what the publishers strangely refer to as the "atlas," a listing of all the support facilities, their appropriate symbol, telephone number, days of service, and any miscellaneous information deemed useful (the entry under Bethesda Medical Center states that the temporary military lodging is inadequate and substandard). There are eighty-eight map symbols in the legend that might appear on any given map (locations of ATMs, chapels, libraries, snack bars, and youth centers, as examples).

Clearly, if it is necessary to navigate an unfamiliar military base and actually find the particular
services which one needs, this is the place to find the map. While it appears that all the buildings on base are shown not all are identified as to their purpose in the "atlas" on the facing page, as the purpose of this publication is to provide access to support facilities.

As with the United States Military Road Atlas, the maps were designed by student interns at the University of Maryland Baltimore County Cartography Laboratory under the direction of Joe School. They are very clear and use colors that are pleasing to the eye. Again, there is some advertisement, mostly realtors in this case.

Military Living states their purpose in publishing these atlases is to help military families "travel on less per day ... the military way" and I feel they have certainly made that possible by providing so much detailed information in such a compact space. The value of these items is not limited to active duty military personnel alone as many people are interested in military installations, ROTC students, retired military, grandparents of military dependents, and fiction writers, just to name a few possibilities. Both of these publications provide excellent quality at reasonable prices and I recommend either publication for purchase by any library or map collection which invests in general road atlases or maps of our nation's capital.

Joanne M. Perry
Map Librarian
Oregon State University
Corvallis, Oregon


The Historical Atlas of Colorado is a delightful book that compiles a wealth of information into a handsome volume. The book consists of 59 black-and-white maps and one colored map with each map sheet accompanied by a page of text. The volume also includes an extensive bibliography and index.

The maps are clearly drawn and are organized into sections on geography, boundaries, agriculture, transportation, mining and manufacturing, settlement, and recreational and historic areas. The index provides access by all persons, places, or events shown on the map sheets.

Maps include the expected subjects, such as routes of explorers and locations of mining areas, and also the unexpected subjects of lost mines and treasurers, literary locales, and labor history landmarks. The well-written text provides the historical background needed to understand the maps and to bring the subjects to life.

By collecting such an array of scattered information, the volume becomes a valuable reference source. The authors are authorities on Colorado history and geography and assembled this information from many sources into an extremely useful volume that also reflects their love of Colorado and its colorful history.

The atlas will be a favorite with a wide audience, for schools, libraries, and tourists, and as a coffee table delight.

Rosalia Rooney
Map Librarian
Colorado School of Mines
Golden, Colorado

Publications Received

Do you need a ranking of county high points for twenty-five of the fifty states? This booklet provides it for you. It does the same for U.S. National Parks and the Mexican states. The first four pages explain how to use the tables and the methodology used to construct them. A painstaking eyeballing of 1:250,000, 1:100,000 and 1:24,000 USGS topographic quadrangles produced the results you see here.

A curious warning/disclaimer introduces the reader to the book, asking those who use it not to climb in dangerous areas or on private property. Clearly the book was designed for the hiker, adventurer and goat in us all.

Each table presents a state and lists the county, name of high point (or HP in climber jargon), elevation, location in section-township-range (not latitude and longitude, strangely enough), and name of 7° quadrangle on which the spot is located. Entries are listed by elevation.

Two interesting charts, one for the western region and one for the east, analyze county heights, ranking them in more ways than I ever thought.
possible. The book’s cheap at $6, and certainty is a convenient source to find the answer to those frequently-asked factoid-specific elevation questions. Only the Western and Northeastern states are listed. No data are provided for midwestern states or the South.


The Student Book only is described here. A Teacher Guide is available, however it has not been seen by this reviewer. Finding Our Way is organized around the Five Themes of Geography recommended by the Joint Committee on Geographic Education, which are: 1) physical location; 2) physical and human character of places; 3) relationships among people and places; 4) patterns of movement; 5) formation and change of regions.

Grade levels four through eight are the primary audience for which the book has been designed. Mr. Rugg has been teaching geography in public schools and on public television for over two decades; this work is his cumulative effort gleaned from years of hands-on and distance-based teaching. Sixteen chapters guide the student through basic concepts that develop geographic literacy. Richly illustrated, numerous sharp images, colorful maps, charts, and photographs reinforce the textual instruction.

Or perhaps the opposite is true, as the graphics are so well presented that they tell a lot in themselves, inviting the reader to follow-up in the text. Each section concludes with a ten-question exercise designed to reinforce the chapter’s theme. An answer key, glossary, and index conclude the volume.
New Mapping of Western North America

compiled by

Joe Crotts
California State University
Chico

Contributors
ML Mary Larsgaard
LN Linda Newman
KN Klaus Neuendorf
RM Riley Moffat
Others The Compiler

Alaska
United States. Forest Service.
1:1,000,000. 5 maps, col., 77x64 cm.
ea. on sheets 81x68 cm. G4362 T6K1
1992 U51. OCLC 19930217. contoured
relief. Ketchikan, AK. Alaska
Region (USFS).

Arizona
United States. Bureau of Land
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Area. 1993. 1:500,000. col 47x71 cm.
G4322 R5G46 1993 U5. Sudoc I
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1:1,000,000. col. 77x57 cm. G4331
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British Columbia
British Columbia. Vancouver Island,
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1 satellite image, col. 69x99 cm. G3512
A4V3 1992 B7. Created by combining
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information. Surveys and Resource
Mapping Branch, Ministry of Environ-
ment, Lands and Parks, Parliament
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verso. Washington, the Society.

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Washington, the Bureau.
**Canada**


- Bruce Lake 1791A
- Earn River 1819A
- Fortin Lake 1795A
- Gray Creek 1792A
- Hoole River 1794A
- Lapie Lakes 1790A
- Lonely Creek 1796A
- Magundy River 1821A
- McConnell River 1793A
- Needlerock Creek 1786A
- Olgie Lake 1827A
- Rainbow Creek 1797A
- South MacMillan River 1820A
- Telegraph Mountain 1789A
- Wilkinson Range 1787A


- Cormorant 63K/2 C21534G
- Egg Lake 63K/6 C21536G
- Gladish Lake 63J/3 C21530G
- Hargrave Lake 63J/5 C21532G
- Hargrave River 63J/6 C21533G
- Root Lake 63K/3 C21535G
- Talbot Lake 63J/4 C21531G
- Yawningstone Lake 63K/7 C21537G


**Hawaii**


**Idaho**


**Montana**

- Montana Bureau of Mines and Geology. *Ground water in the Fort Union formation in the Wolf Point 1x2 degree quadrangle, northeastern Montana and adjacent North Dakota*. 1993. 1:250,000. two col. Atlas 5-E. $2.50, the Bureau. 1300 W. Park St., Butte, MT 59701-8097

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**Nebraska**

G4191 G4 1991 U5. Sudoc I53.11;N27. OCLC 27129054. Cheyenne, the Bureau. Avail, from BLM, Wyoming State Office, P.O. Box 1828, Cheyenne, WY 82003.

Nevada


New Mexico


Oregon

Oregon Department of Geology and Mineral Industries. Earthquake hazard maps of the Portland Quadrangle, Multnomah and Washington Counties, Oregon, and Clark County, Washington. 1994. 1:24,000. 3 maps, col. + 106p text. GMS-79. $20.00 (Visa or MC, prepayment on orders under $50 except credit cards). Oregon Information Center, Suite 177, State Office Bldg., 800 Ne Oregon St. #3, Portland, OR 97232-2109. (503) 476-2496. FAX (503) 474-3158. (KN)

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$6.00. (Visa or MC, prepayment on orders under $50 except credit cards). Oregon Information Center, Suite 177, State Office Bldg., 800 N.E. Oregon St. #5, Portland, OR 97232-2109. (503) 476-2496. FAX (503) 474-3158. (KN)


Texas


Utah


Wyoming


Yukon
Holdsworth, G. and Sawyer, B. Mount Logan map, research and reference folio. 1993. 1:75,000 and 1:100,000. 2 maps, 50x66 cm., col. showing ascent routes and research sites (75K) and contour and shaded relief (100K). Arctic Institute of North America, 2500 Calgary Dr. NW, Calgary, Alberta T2N In4. Attn: G. Holdsworth. Tel 403-220-4047. Fax 403-282-4609. $15C-820C (?).

Publications on Oregon
The following publications are issued by the Oregon Department of Geology and Mineral Industries and are available from: Oregon Information Center, Suite 177, State Office Bldg., 800 NE Oregon St. #5, Portland, OR 97232-2109. (503) 476-2496. FAX (503) 474-3158.

Tsunami! This brochure describes causes of tsunamis, preparation ahead of time, and procedures to follow when tsunamis occur. Includes facts on tsunamis occurring in Oregon and elsewhere.

Single copies-send SASE. Organizations wanting more copies should contact the Center at (503) 731-4444.

Oregon museums and historical markers, 1994 pocket guide. 1994. This brochure lists locations, hours, general contents of 133 museums, and location and description of 98 historical markers. Includes map, 21x26 cm. locating museums and sites. Single copies-send SASE. Organizations wanting more copies should contact the Center at (503) 731-4444. (KN)

Johnson, A.G., et. al. Earthquake database for Oregon, 1833 through October 25, 1993. 1994. dBase III (.DBF file) on one 3.5 in. diskette. OFR 0-94-4. Over 15,000 earthquakes representing Oregon's conclusive recorded earthquake history up to most recent events. Searchable by size, time, geographic area, and any other details contained in each record. $10.00. (KN)

Percussion, Curt D. Beach-shoreline database, Pacific Northwest Region, U.S.A. 1994. One diskette (Excel 4.0 spreadsheet format for Apple or DOS) + 29p text. OFR 0-94-2. Three data files: 1) beach physiography; 2) beach survey; 3) beach deposit data. $12.00 (specify Apple or DOS format). (KN)

Employment
The following are listed here as a record of job openings in the field.

• USGS Denver Library: USGS is seeking a Supervisory Librarian with knowledge of physical sciences, preferably earth science, and experience in managing a library, for Head of the USGS Library, located in Denver CO. GS-13, $50,096-$65,121 per year. Closing date: 5/6/94.

• Northwestern University Library: Assistant Department Head/ Federal Documents Librarian. Includes responsibility for maps. $30,000 minimum. Closing date: 5/10/94.

• Pennsylvania State University Libraries: Map Librarian - responsibilities include a full range of maps and documents reference and instructional services, including geographic information systems instruction; selection and interpretation of digital maps; maps collection development. Applications will be reviewed beginning 5/15/94 and continue until the position is filled. Nancy Slaybaugh, Manager, Libraries Human Resources, Box MP-1S, E1 Pattee Library, Penn State U, University Park PA 16802.

• Yale University Library: Curator, Yale Map Collection. Minimum rank, Librarian III; minimum $36,700. Applications received by April 23, 1994 will be considered; applications will be accepted until the position is filled. Diane Y. Turner, Director, Library Personnel Services, Yale University Library, POB 208240, New Haven CT 06520-8240.

• University of California, Los Angeles, Libraries: Cartographic Information Librarian. $35,052-$59,316. Candidates applying by 5/1/94 will be given first consideration. Dr. Rita Scherrer, Associate University Librarian, Administrative and Personnel Services, UC Libraries, 405 Hilgard Avenue, Los Angeles CA 90024-1575.

• Fort Lewis College is seeking a Reference Librarian with experience in maps and documents collections. Send complete application packet by July 5 to Donna Bedor, Chair of Search Committee, John F. Reed Library, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301.
Something to Make Your Life Easier

Map Reference Training for University of Arizona Main and Science-Engineering Reference Desk Staff

by

Chris Kollen and Jack Mount
University of Arizona

Introduction

Since February 1992, the staff at the University of Arizona Library has been reorganizing the library into a team-based organization, incorporating principles of Total Quality Management. In October 1993, we officially started working in the new organization.

This change was precipitated by several factors. We did not have the staffing or budget to do what we used to do or what we would like to do. Specifically, we needed additional staff to serve users at the busy Main and Science Engineering reference desks. We wanted to establish an organization that values the user and staff more than the collections. We wanted to give librarians opportunities in the areas of collection development, faculty liaison, needs assessment and knowledge management to work on projects with faculty.

We developed a three-tiered model of reference service. Type 1 service desks primarily answer directional questions and are staffed by classified staff and student assistants. Type 2 service desks provide on-demand reference and are staffed by librarians, classified staff, and student assistants. Type 3 service provides in-depth reference by subject expertise and is handled by librarians based on their subject specialties.

Type 2 map reference, previously handled at the Map Collection reference desk, is now handled at the Main and Science Engineering reference desks. All staff that provide Type 2 reference service at the Main or Science Engineering reference desks needed to be trained in map reference. The following outline was developed for a 12-hour training session for staff that work at the Type 2 reference desks and was conducted by two former Map Collection librarians.

Outline

Goal:
The reference staff person will use a defined set of cartographic reference tools to assist users needing commonly requested cartographic information.

Sessions:
Session 1: Objective I. [for Main & SE staff]
Session 2: Objectives II and III [for Main & SE staff]
Session 3: Objectives IV, V and VI [for Main & SE staff]
Session 4: Objectives VII and VIII [for Main & SE staff]
Session 5: Objectives IX and X [for Main staff]
Session 6: Objective XI [for SEL staff]

Objective I: The Staff person will understand the scope of information available in the Map Collection - such as sheet maps, atlases with their wealth of thematic maps, microforms, Landsat imagery, relief models, wall maps, aerial photography, recreational maps, etc. [for Main & SE staff]

A. Scope of collection - collection development policy for various geographic regions & countries. Map Collection collects intensely North America, Mexico, Central & South America.

B. Atlases
1. General
2. U.S. states
3. National
4. Thematic
5. Road/highway/Street
6. Sanborn (in Special Collections)
7. Antique - original & facsimile (in Special Collections)

C. Sheet maps
1. General/Political
2. Thematic
3. Topographic
4. Hydrographic/nautical charts
5. Aeronautical charts
6. Road/highway/street
7. Recreational/hiking
8. Antique - (originals in Special Collections)

D. Government depository maps
1. United States Geological Survey (USGS)
2. United States Bureau of Land Management (BLM)
3. United States Defense Mapping Agency (DMA)
5. United States Central Intelligence Agency (CIA)
6. Federal Emergency Management Agency (FEMA)
7. United States Forest Service (USFS)
8. National Weather Service

E. Microforms (some in Main Reference & Special Collections)
F. Wall maps

G. Raised relief models
H. Aerial photography & orthophotomaps
I. Satellite imagery - (Landsat in Special Collections)
J. Notebook-size (some in Main Reference & some cataloged as sheet maps.)

Objective II: The staff person will be able to find maps on SABIO (on-line catalog) by subject (themetic and geographic) - monographic maps, series maps, analyzed maps and serial maps, understand the information in the record that is different from books or serials, and in particular understand the need to go from a specific geographic area to a larger area. [for Main & SE staff]

A. Demonstrate how to search for maps by subject or geographic area. Find the following types of maps:
1. Monographic maps, general and thematic
2. Map set or series, general - show index sheets
3. Serial maps, such as an annual highway map
4. Mention analyzed series maps

B. What fields are different?
1. Map info:
   a. Scale
   b. Projection
   c. Coordinates
2. Notes:
   a. Projection
   b. Relief
   c. Meridian

C. If user can't find a map of a specific area, of the scale they are interested in, then you need to have them search by the next larger geographic area.

Objective III: The staff person will be able to understand what the different types of maps are, such as: base maps, outline maps, physical maps, topographic maps, hydrographic charts, aeronautical charts, road maps, aerial photography, and commonly asked for thematic maps, and be able to refer users to the correct type of map. (handout) [for Main & SE staff]

A. Outline and base maps
B. Physical maps
C. Topographic maps
D. Hydrographic charts
E. Aeronautical charts
F. Road maps
G. Aerial photographs
H. Thematic maps - Social Sciences and Sciences examples

Objective IV: The staff person will be able to understand how to use map indexes for series and be able to explain to users how to find the correct sheet. [for Main & SE staff]

A. Sets/series - need for indexes
B. USGS topographic - 7.5' & 15' - sheets filed alphabetically
C. USGS topographic - 1:100,000 & 1:250,000 - sheets filed numerically

D. BLM land ownership
E. Mexican topographic - 1:50,000
F. DMA hydrographic
G. FEMA - indexes arranged by Arizona counties

Objective V: The staff person will understand different types of grid systems, such as latitude and longitude and UTM, so that they can explain to a user how to go from latitude and longitude found in a gazetteer to finding that place on a map or in an atlas. [for Main & SE staff]

A. Longitude/latitude
1. longitude - meridians, date line, time zone lines
2. latitude - equator, parallels, Arctic Circle, tropic lines
3. some older maps use different prime meridians

B. UTM - metric system
C. Townshp/range

Objective VI: The staff person will understand how township, range and section are used in legal descriptions so that they can help users find a location based on a legal description. (handout) [for Main staff]

Objective VII: The staff will understand map scale and be able to explain the basics to a user, such as explaining
the difference between large scale and small scale. [for Main & SE staff]

A. Definition of scale:
Scale is the ratio of a distance on a map to the actual distance it represents. (handout)

B. Types of scale:
1. Verbal scale
2. Bar scale
3. Natural or representative fraction

C. Difference between large scale and small scale
1. Large scale map: the representative fraction is large, such as 1:2000
2. Small scale map: the representative fraction is small, such as 1:500,000

D. Can limit on SABIO by scale. Do get false hits since it searches all numbers in the Map Info. field.

Objective VIII: The staff person will understand what projection is and be able to explain the basics of projection to a user, how to find a map on SABIO of a specific projection and refer users to relevant books on projection. [for Main & SE]

A. Define projection - any systematic arrangement of meridians and parallels portraying the curved surface of a celestial sphere upon a plane. Or in other words, how do you portray the Earth (3 dimensional) onto a sheet of paper (2 dimensional).

Properties affected: size, shape, direction, distance depending on the type of projection.

B. Limit by projection SABIO

C. Referring users to books on projection.

Objective IX: The staff person will be able to use gazetteers to assist users in finding the location of a specific town or physical feature. [for Main staff]

A. General world wide
B. U.S. states - GNIS/USGS, OMNI Gazetteer - print & CD-ROM
C. Foreign countries - Board on Geographic Names (BGN)
D. Indexes in atlases
E. Standard process for locating a place name (in Main Reference Room)
F. Old names - use gazetteers in Special Collections
G. Arizona Place Names

Objective X: The staff person will know what the various types of thematic maps and atlases are in the social sciences; the various types of cartographic software and how to use the most commonly requested. (handout) [for Main staff]

A. Thematic maps and atlases
1. Land management
2. Population
3. Historical maps and atlases
4. Zoning
5. Flood insurance maps

B. Software and CD-ROM's
1. PC-Globe
2. PC-USA
3. Omni Gazetteer CD-ROM (SilverPlatter)
4. Street Atlas USA CD-ROM
5. Geosight Fact Finder w/ TIGER
7. ArcView - GIS viewing software

Objective XI: The staff person will know what the various types of thematic maps, atlases, and software are in the sciences, and how to use the most commonly requested. [for SE staff]

A. Thematic maps and atlases
1. Agriculture
2. Botanical/plant distribution
3. Climate and weather
4. Geology
5. Mines/mineral resources
6. Soils
7. Water resources

B. Geologic map indexes (handout)

C. Software:
1. Earth Sciences - CD-ROM
2. ArcView - GIS viewing software
4. Geologic Map of Nevada - CD-ROM

Conferences
Are you hosting a forthcoming convention? Please let your IB Editor know your plans (no matter how preliminary), so that prospective attendees will be able to plan well ahead.

*March 31-April 2, 1994 WAML at Riverside CA*

Barbara Haner had obviously gone to a substantial amount of work to organize and manage this conference! It does seem that she has an aversive fear that someone visiting her will starve unless fed constantly and with the best of refreshments. Witness the following: goodies for the UC/Stanford Map Libraries Group meeting (on 3/30) included almond-poppyseed muffins, various kinds of cookies, bagels and cream cheese; and poppyseed cake (for those of us who consider that poppyseeds are not far behind chocolate when it comes to dark stuff that is good to eat). Then came The Day of the first meeting - crumbs

Continues on p. 176
### 1993/94 WAML Membership

**Lifetime Members**
- Friedman, Frank A
  - 212 E Penn Ave.
  - Robesonia, CA 91551
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  - University of California Library
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- Jenks, Janet
  - Millikan Library
  - Caltech
  - Pasadena, CA 91125
- Majercowicz, Eugene I
  - 4449 Presidio Drive
  - Los Angeles, CA 90008-4821
- McGarry, Dorothy
  - UCLA Phy Sci Libraries
  - 8251 Boelter Hall
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  - University Library
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  - 408 227-0766
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  - Bak Inc., Library Manager
  - 1430 O'Brien Dr
  - Menlo Park, CA 94306
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  - 415 328-3148 (Fax)
- Brown, Johanna B
  - Kennedy Library - Gov Docs & Maps
  - Cal Poly State University
  - San Luis Obispo, CA 93407
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  - John F Reed Library
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<td>2440 Bancroft Way</td>
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<td>15333 Se 42nd Street Bellevue, WA 98006 206 543-9392</td>
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<td>Larson, Suzanne T Earth Sciences Library, CB 184 Univ of Colorado Boulder, CO 80309-0184 303 492-6133 larsen_s@ cubidr.colorado.edu</td>
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<td>Lawton, Jonathan M Cartographic Dept. California State Automobile Assoc. 150 Van Ness Ave. Bldg 1, Fl.2 San Francisco, CA 94102-5279 415 565-2469</td>
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<td>Long, Kati</td>
<td>USGS - WRD 333 W Nye Lane Carson City, NV 89706</td>
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<td>Neuendorf, Klaus</td>
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States and Provinces News

Arizona

If you’re interested in joining the Arizona Map Society, get in touch with: Jack Mount, Science-Engineering Library, University of Arizona, Tucson AZ 85721 (mount@ccit.arizona.edu) Next meeting: early fall.

• UA Map Collections Pimera is a dead title. The Arizona Map Society newsletter will be Pimera - new series.

In late October of 1994, a small group will get together to discuss NCGIA (National Center for Geographic Information and Analysis) Research Initiative 16, Law, Information Policy, Spatial Databases. Four main aspects are: access rights of citizens to publicly held information; intellectual property rights in spatial databases; privacy rights and principles; and liability in the use, sharing, and distribution of GIS data and analysis results.
Larry Carver (UC Santa Barbara Map & Imagery Lab, Davidson Library) sends thanks to all who sent cards and best wishes following his motorcycle accident last February.

- The Arizona Arc/Info Users Group met 4/8/94; if you're interested in future soirees, get in touch with them at 1616 West Adams Street, Phoenix AZ 85007 (602/542-4061)
- Clay Slate has received an NIH grant for the Navajo Place Names Project.
- Available FREE from the Arizona State Office of BLM, 3707 North 7th Street, Phoenix AZ 85014: BLM Arizona Recreation Guide (11100)
- AGIC (Arizona Geographic Information Council) Newsletter, no. 10, March 1994: if you're interested in GIS, be sure to try to get on the mailing list for this useful newsletter (1616 West Adams, Phoenix AZ 85007). Dale Steele is the Editor (another of those spare-time pursuits, no doubt). Especially useful in this latest issue is the list on p. 5: Arizona GIS Organizations & Contacts.
- Your Arizona Editor sent a photocopy of a bill - concerning misconduct with weapons - that died in committee. Section 33 of HB 2389: "Require every school in the district to prepare a map that identifies that area on or within three hundred feet of the school or its accompanying grounds and the public property within one thousand feet of the school or its accompanying grounds. The maps shall be called the 'Weapon-free school zone' maps."
- The Arizona Geological Survey geologists will finish mapping the Phoenix 1:240K quad this field season.

California
- Yet another new organization: California Geographic Information Association, POB 13436, Sacramento CA 95813-4436. First meeting was 5/20 at the Sacramento Convention Center in Sacramento. The Teale Data Center seems to be the founding agency. The association is one of the recommendations of the CA GIS task-force report to the governor.
- Dr. Albert R. Vogeler was appointed Curator of the Roy V. Boswell Collection for the History of Cartography on May 9. Dr. Vogeler holds a Ph.D. in Modern British History from Columbia University, has taught at California State University Fullerton for twenty years and will retire in June as Lecturer in Liberal Studies.

Dr. Vogeler has been closely associated with the Collection, which was named for Boswell at his initiative. He has lectured, mounted exhibits, and written catalogs about its holdings, and is author of a descriptive essay in the 1992 volume he co-edited with Professor Arthur Hansen, Very Special Collections.

- Planning Phase V Forums for the California Multitype Library Network have taken/will take place: 6/20 (Sacramento); 6/22 (Temecula); 7/19 (Millaire); 7/21 (Fresno); 7/22 (Sacramento). For more information: California State Library, Library Development Services, 1001 Sixth Street, Suite 300, Sacramento CA 95814.

- Barbara Haner (UCR) attended a meeting of the Inland Chapter of URISA, 4/20/94, and found it well worth while; Craig Gouch (who spoke at WAML at Irvine) spoke about the Southern California Spatial Data Catalog that his group is putting together. Somewhere about this time, Craig gave your Editor a call and asked for an explanation (photocopy, thankfully) of how libraries class
spatial data. I'm reasonably sure I told him more than he ever wanted to know.....

  • Software Publishing Corp of Santa Clara (makers of Harvard Graphics) will cut its workforce in half, due to falling sales. (Phoenix Gazette 4/11/94)
  • A new program for information sciences is being put together at UC Berkeley. This M.A. program would differ from the current School of Library and Information Studies program in having a much wider coverage of information organization and management, a broader and much deeper technological component, and greater attention to policy issues and analytical tools. The Ph.D. program would address research. An e-mail message of 4/15/94 states that UC Berkeley has approved the creation of this information management school. For more information: Nancy Van House, 510/642-9980.
  • On the southern front, UCLA's Graduate School of Library and Information Science no longer exists; its degree programs will continue when the school merges with the Graduate School of Education on 7/1/94 (American Libraries, April 1994, p. 295).
  • Starting this fall, Cupertino residents will be able to use their personal computers to apply for and receive building permits on-line. Cupertino may be the first city in the US to connect with its citizens electronically in this way. (p. 2 of Federation Facts: A Quarterly Publication of the Federation of Government Information Processing Councils, spring 1994).
  • Groveland residents are trying to persuade mapmakers to put the city on maps. (Escondido Times Advocate, 1/31/94, p. A10)
  • Some Calexico merchants are upset about a new map commissioned by the Chamber of Commerce; they believe that the map belittles illegal immigrants. A Tucson company, Home Towne Graphics, created the maps. (San Diego Union-Tribune 1/12/94 A3)
  • From a 2/14/94 e-mail from Phil Hoehn: The Library at UCB has completed its 3.5-year-long California map cataloging and conversion project. All maps of CA in Bancroft, Earth Sciences and Map, and Forestry Libraries, and in the Water Resources Center Archive, are now available on MELVYL. Altogether, 11,074 map titles were done; UCLA completed cataloging of 2,845 titles.
  • Anza-Borrego officials have a $1.9M project to develop a computerized map and inventory system, showing everything about the park. (San Diego Union-Tribune 1/12/94 E1)
  • According to a scrawled note from a telephone call from him, Vlad Shkurkin has retired. We hope he's enjoying it! (Cartographic Designer Prints of California (Jeffrey A. Kowel, POB 163562, Sacramento CA 95816) has issued another newsletter and a new designer print, "Sacramento Number Four."

Colorado

  • The new Denver International Airport was scheduled to open March 9. It is located 23 miles from downtown Denver; it is the first all-new U.S. airport to be constructed in the last 20 years. It was one of the largest public-works projects in the Western Hemisphere. It is estimated that it will serve as many as 34,000,000 passengers in its first year (shudder - I'm afraid I may be one of them - maybe even a couple of them)

Hawaii


Washington (State)

  • New map, San Juan Islands, 1:70,000, $4.95 from TIMB Publishing, Vancouver BC. (Map Link is selling this also)

U.S. Government Agency News

Ballistic Missile Defense Organization

• Clementine 1 (satellite), a joint BMDO/NASA effort that entered lunar orbit 2/19, has completed its first lunar mapping phase. More than 1.6 million images were taken, ending April 22 (Aviation Week & Space Technology, 4/4/94, p. 59; 5/2/94, p. 21).
• Images are available at seds.lpl.arizona.edu, via WWW, FTP, and Gopher. If you have access to WWW, get data through the URL: http://seds.lpl.arizona.edu/clem/clementine.html. For more info on the imagery, Chris Lewicki (chrisl@lpl.arizona.edu.), SEDS-USA Directory of Special Projects.

Board on Geographic Names

• Re GNIS: 2 potential name-compilation contracts for award this
year, with CA expected to be awarded soon. Next ones will be for IL, WI and IA. The FGDC (Federal Geographic Data Committee) would like to have all state and county cooperators provide to GNIS a listing of state and county parks: a pilot project for WI, is planned (from U.S. Board on Geographic Names, Domestic Names Ctee meeting, 4/14/94).

- The user's guide for the digital gazetteer is ready to be printed; it should be available for sale ($57), in 6-8 weeks (from minutes for 3/10/94)
- A revised edition of the gazetteer for Antarctica is being produced (minutes for 3/10/94)
- FIPS55 file is completely updated and available on magnetic tape; this is the first major revision since 1987 (minutes for 1/13/94)
- Steps in a domestic-name proposal: request received via DGNR (Domestic Geographic Names Report), letter, memo; staff research; case brief prepared; put on docket; state boards review, fed, state and local agency review; action list; review list; USBGN DNC discussion and decision; National Geographic Names Data Base; Decision List.

Inquiries re domestic names: Roger L. Payne, Exec. Sec., Domestic Geographic Names, USBGN, 523 National Center, USGS, Reston VA 22092. All other inquiries: Richard D. Randall, Executive Secretary, USBGN, Defense Mapping Agency, 8613 Lee Highway, Fairfax VA 22031-2137.

- The ANSI X3L8 Committee has a subcommittee for geographical units that is working on recommending a standard coding system for bodies of water of the world (minutes, 2/1/94)

**Bureau of the Census**
- CensusInfo (GeoSoft Co, POB 1372, Orem UT 84059) has issued *Demographic Maps*, volume 2 - 40 maps of UT's block groups and Census Tracts. $49.95.

**Bureau of Transportation Statistics**
- The Bureau has available CDS of Census (e.g., travel-to-work) statistics. Fax R. Schmidt at 202/366-3640 if you're interested in getting copies.

**Coast and Geodetic Survey**
- A prototype raster naval-chart image, for 12214, "Cape May to Fenwick Island," is available. Call Dave Enabnit (301/713-2724).

**Consortium for International Earth Science Information Network (CIESIN)**
- CIESIN was "created to address environmental data management issues raised by the United States Congress, the Administration and the advisory arms of the federal policy community" (*GIS Newsletter*, no. 147, 4/94, p. 18)

**Dept. of Defense**
- There was a joint task force on GPS (Global Positioning System) between DoD and the Dept. of Transportation, with recommendations for restructuring DoT's policy roles, eliminating duplications of local-area reference stations, and putting civilian reps at GPS master control station (in Colorado). A policy review by the National Academy of Public Administration and the National Academy of Sciences is apparently underway. (*GPS World*, 2/94, p. 12 and following)

**Dept. of Transportation**
- DoT is working on a National Intelligent Vehicle/Highway System (IVHS) program. A first draft was circulated 10/93; a second draft is to be available 5/94. The final plan is scheduled to be completed by 11/94 (*GPS World*, 4/94, p. 71).

**Federal Highway Administration**
- FHA has maps for nearly 159,000 miles of U.S. roads, developed using GIS software. They are being used to illustrate a proposed National Highway System (*GIS World*, 3/94, p. 17)

**FedWorld**
- Not an agency, but this was the best place your Editor could find to put the info. FedWorld has available electronically such info as White House press releases, NTIS product information, currency exchange rates (updated daily), listing of gov't. CDs, weather satellite images, and much more. Connect by using the telnet command to fedworld.gov (IP address 192.239.92.201). In future, they expect it to be available via FTP and Internet. Questions? 702/487-4608.

**Federal Aviation Administration**
- FAA has officially accepted GPS for en-route and non-precision approaches in the U.S. (*GPS World*, 4/94, p. 16).
Federal Geographic Data Committee

- An Executive Order of the President, “Coordinating geographic data acquisition and access: the National Spatial Data Infrastructure,” dated 4/11/94, gives deadlines by which Federal agencies are expected to catalog their data - current and retrospective - using the FGDC metadata standard.

- By 11/94: an electronic National Geospatial Data Clearinghouse shall be established.

- By 1/1/95: each agency shall document all new spatial data that it collects, using the standard.

- By 4/11/95:
  a. agencies shall have a schedule for documenting spatial data previously collected or produced (Ed. note: Sounds like a good time for Federal agencies and libraries to work together);
  b. agencies shall adopt plans to establish procedures to make spatial data available to the public;
  c. agencies shall adopt internal procedures to access Clearinghouse before spending funds on collecting spatial data. (Ed. note: And in their spare time...)

Geological Survey

- Etak (Menlo Park CA) and USGS have signed an agreement to accelerate distribution of mapping info; USGS will gain access to Etak’s digital databases and mapping software, while Etak will gain access to USGS work in progress, such as digital orthophotoquads.

- Speaking of DOQs - the first one (Polk County IA) came out with shipping list 94-0011-E. The CDs have been reclassed with a unique stem for each state, ranging from I - 99-2411 through /51. Next 2 discs expected: Allen Co., OH and Bamberg Co., SC.

- Schedule for abandonment of 15-minute topo series: 4/1-5/1, 1994: maps may be purchased for 50 cents a map, in minimum quantities to 100 maps per title.

- 5/1/94: series officially abandoned; color separates will still be available.

- Linda Zellmer (U of WY) informs your Editor that the reason the book-format topo indexes were stopped and the indexes switched back to map-style is because GPO told USGS USGS was not supposed to be in the business of publishing books.

- In case you missed - Glaciers of Europe (Professional Paper 1386-E, satellite image atlas of glaciers of the world). $17.00.

- DEM’s (Digital Elevation Models) are available via ftp from resgds1.cr.usgs.gov.

- Several states’ topos seem to be going through some name changes; see shipping list no. 94-19-TQ, where all 27 sheets of Kansas had name changes. A tiny note on the bottom right corner of the sheet tells you the former name.

- Gordon Eaton was sworn in as new Director of USGS on 3/14/94.

USGS has put out a National Mapping Program product evaluation survey (cover letter dated 4/7/94).

- Remember Bob Bailey’s map, Ecoregions of the United States? There is a 1994 version free from him (303/498-1773). A digital version is being created by USGS.

- The 1/94 issue of EER News notes that OPCPLOT, Version 1.7E - Oceanographic Charting Software for the World’s Seas, is available from Dr. Murry Brown, Minerals Management Service, 1201 Elmwood Park Boulevard (MS 5430), New Orleans LA 70123-2394.

- USGS is experimenting with World-Wide-Web Home Pages and invites your comment. Document URL at http://info.cr.usgs.gov/

Jet Propulsion Lab

- JPL has out Catalog of Government Scientific Compact Disc - Read Only Memory (CD-ROM) Titles, version 2.0, 493. They’re located in Pasadena CA at the CA Institute of Technology. Document number: JPL D-9555.

National Aeronautics and Space Administration

- There have been sensor and thruster problems with the GOES-1 (Geostationary Operational Environmental Satellite) advanced weather satellite, launched 4/12/94. The plan is for it to become operational by mid-October (Aviation Week & Space Technology, 4/18/94, p. 58; 4/25/94, p. 58; 5/2/94, p. 15).

- On the other hand, images from the Space Radar Laboratory look good - for example, the C- and L-band Space Imaging Radar C (SIR C)

- NASA and FEMA are to "create a prototype system to speed the application of digital remote sensing imagery in disaster areas." (*Aviation Week & Space Technology*, 5/2/94, p. 11)


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**National Cartographic and Geographic Information Systems Center**

- It's located in Fort Worth TX; it has soil maps for the State Geographic Database (STATSGO) for the conterminous USGS 1:250K quads: for info, 817/334-5290.

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**National Geodetic Information Branch**

- It now has a new Catalog of Products and Services of the National Geodetic Survey - free from 301/713-3242; fax 301/713-4172.

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**National Geophysical Data Center**


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**National Oceanographic Data Center**

- If you haven't seen *Key to Oceanographic Records Documentation*, no. 18 and no. 19 (National Oceanographic Data Center, Inventory of Physical Oceanographic Profiles, Global Distributions by Year for All Countries; and Results of the NODC and IOC Oceanographic Data Archaeology and Rescue Projects, report 1), do so; they're worth your time.

- In preparation, to be in NOAA's atlas series, a *World Ocean Atlas*, in several volumes; S. Levitus, T. Boyer, R. Burgett seem to be authors.

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**National Snow and Ice Data Center**

- First in a series of ARCSS (Arctic System Science) CDs was to be released in early May, *ARCSS/AIL Data Series volume 1: Alaska North Slope Data Sampler*. Get in touch with them nsicd@sitka.colorado.edu or at CIRES, Campus Box 449, Univ of Colorado, Boulder CO 80309.

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**Office of the President**

- Current budget plans for 1995 fiscal year include funds for GPS for the Coast Guard, DoD, and the Federal Aviation Administration (*GPS World*, 4/94, p. 16).

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**News**

**Asia**

- GIP RECLUS (Maison de la geographic, 17 rue Abbe del’Epec, 34000 Montpellier FRANCE) apparently now has available *Atlas du Vietnam*, par Vu Tu Lap et Christian Taillard; 424 p., 308 maps. (*Informations RECLUS*, no. 29, 1/94)

- This year may see the completion of Mongolia’s first natural resources survey — using satellite imagery — of a 15,000-sq.-km. area near Ulan Bator, to be mapped at 1:50K, using SPOT scenes. (*Down to Earth*, Feb.1994, p. 2)

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**Canada**

- The Geological Survey of Canada Bookstore not only has an e-mail address (gsc_bookstore@gsc.emr.ca), they actually read their mail! Your Editor sent a request, asking what a "stacked profile" was (one of their maps for sale has these on it), and within a week, I had a response from the author of the map. Very impressive!

- The GEOSCAN database (managed by the Canadian Geoscience Information Centre, Geological Survey of Canada) has references to geoscience literature of Canada and offshore. To gain access to CAN/OLE: Electronic Products and Services — CAN/OLE, Canada Institute for Scientific and Technical Information, Building M 55, Montreal Road, Ottawa K1A 0S2. For more info on GEOSCAN: Canadian Geoscience Information Centre, 601 Booth Street, Ottawa K1A 0E8 (library@gsc.emr.ca). The Centre’s OPAC (On-Line Public Access Catalogue) is available through the Internet; telnet to gciinfo.gsc.emr.ca and login as opac. Select VT100 terminal emulation. For dial-in access info, call 613/996-3919.

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**Corto-Canadiana** (the equivalent of NUC-Cartographic Materials) now includes 1980-1992. Fiche copies are free from: National Archives of Canada Bookstore, Communications Division, Room 136, West Memorial Building, 344 Wellington Street, Ottawa K1A 0N3.

- *Reports, Maps and Geoscience Databases*, compiled by D. Fehr
Europe

- From a British Library Press
Information, 94/15 (dated April 15, 1994): "The British Library and the National Archives of Canada are cooperating to ensure the survival of Chas A Goad's plans of Canadian towns, an important source for the history of Canada." For more info: Press and Public Relations, British Library, 96 Euston Road, St. Pancras, London NW1 2DB.

- The index to the USSR 1:200K topo set is now available as ALAMAGERT Open File Report 94-1. Christopher J.J. Thiry (from NYPL) is the hard worker behind this gem (thiry@nyplgate.nypl.org). It is 64 p. long, and includes translations of the legend. To order, send $6.40 to: Jim Coombs, MAGERT OFR Production Manager, SMSU Map Library, Southwest Missouri State, 901 S. National #175, Springfield MO 65804-0095.

- If you need information on CERCQ (Comite european des responsables de la cartographie officielle), get in touch with the Secretary General of the organization, J. Mouset, CERCQ, Avenue de la Couronne 172, Bte 26; B-1050 Brussels BELGIUM.

- From Antique Atlas Publications (31a High Street, East Grinstead, W. Sussex, RH19 3AF), a revised and updated version of Early Printed Maps of the British Isles, 1477-1650, by R.W. Shirley (1991; £3, plus postage and packing); and A Foothold in Florida: An Eye-Witness Account of Four Voyages made by the French to that Region and Their Attempt at Colonization, 1562-1568, based on a new translation of Laudonnierre's L'histoire Notable de la Florida by Sarah Lawson with annotations and appendices by W. John Faupel ($45 plus $10 for surface mail, $20 air mail).

- NAPLIB, Directory of Aerial Photographic Collections in the United Kingdom (1993; 76 p.; 22 pounds); available from ASLIB Information House, 20-24 Old Street, London EC1V 9AP.

- From Imago Mundi Press releases: "At the annual meeting on 16 November 1993 the Imago Mundi Board agreed unanimously to the appointment of Dr. Catherine Delano Smith as Editor. She will co-edit the next volume (no. 46) and take sole editorship for the 1995 volume. Professor Eila Campbell has been Editor since 1971 (vol. 25)" [Ed. note: at this point one hears a gasp of admiration from the IB Editor!]

- The Trustees of the J.B. Harley Research Fellowships Fund are pleased to announce the first fellowships in the History of Cartography. Three awards, each of 400 pounds (as a contribution toward a two-week stay in London) have been made ...." to Dr. Mead T. Cain (New York; 'The Maps of the Society for the Diffusion of Useful Knowledge'), Dr. Claire Lemoine-Isabaye (Musee Royal de l'Armee, Brussels; 'Histoire de la cartographie du territoire belge'), and Roger A. Starling (U of Toronto; 'Topography and power: English Renaissance drama and the production of space 1580-1640.')

- One of the projects of the International Commission for Urban History is the production of historical town atlases; under the title, Historische Stedenatlas van Nederland (published by Delf University Press, Stevinweg 1, NL-2628 CN Delft), there are atlases for Haarlem, Amersfoort, Zutphen, Kampen, and Schoonhoven en Nieuwpoort. (Information from Jan Smits, map curator, Koyal Library, National Library of the Netherlands; jan.smits@konbib.nl)

Latin America

- Re the Hydrogeological Map of Southern Honduras (1:250K) - this is obtainable for $85 from Publications Dept., Instituto Geografico Nacional, Apartado Postal 3177, Tegucigalpa, HONDURAS.

Oceania

- There are 2 new 1:10M maps by the Australian Geological Survey Organization: Earthquake Hazard Map of Australia - 1991; and Earthquake Epicentre Map of Australia, 1856-1992. $15 plus $1 sales tax if both purchased together, otherwise $10 each, plus $15 postage overseas (in which case no sales tax). AGSO Sales Center, GPO Box 378, Canberra ACT 2601.

- Apparently there is an atlas termed, Reef, Range and Red Dust - Adventure Atlas of Queensland. General Editor, David Wadley, but your Editor has no sales information. (If you do, please let me know!)

- The New Zealand historical atlas is planned to be out at the end of 1995.
United States of America

• The Illinois State Museum has published, as v. 24 of its Scientific Papers series, a facsimile volume of: Joseph N. Nicollet's 1839 Manuscript Maps of the Missouri River and Upper Mississippi Basin. $16.50 plus shipping, handling, tax, from the State Museum.

• "Another America, an Exhibition of Native America Maps" is a new traveling exhibit which will be available in the second half of 1994. For a brochure/more info: Mark Wargin, 4071 N. Stowell Avenue, Milwaukee WI 53211 (markw@csd4.csd.uwm.edu)

• For a map of non-utility power plants in the U.S. (order number UDI-2456-94), send $59 to: UDI, Suite 250, 1200 G Street NW, Washington, D.C. 20005; 1-800/486-3660.

• Word to the wise, from Diana Rivera (Michigan State University): The Economist Atlas of the New Europe (published by Holt) and Europe, A Thematic Atlas, are pretty much the same item.

• There's a new publications list available from: Ihermon Dunlap Smith Center, The Newberry Library, 60 West Walton Street, Chicago IL 60010-3380.

• Note change of address for Richard B. Arkway, Inc. - to 59 East 54th Street, Suite 62, New York NY 10022.

• Between March 3 and June 3, Columbia University's Butler Library, Rare Book and Manuscript Library, Kemper Exhibition Room, is now displaying, "The World on Paper, a Celebration of the Mapmaker's Art."

• Congratulations to Dorothy McGarry, who has been honored as a Fellow of the Special Libraries Association! The award will be made at the SLA annual meeting in Atlanta (Wednesday morning). (Thanks to Alice Hudson for the info)

Map Dealer News

International Map Trade Association

• This year's theme for the IMTA Trade Show and Conference is, "Land, Sea and Air." What better place to experience all three than in Portland, Maine? IMTA expects over one hundred exhibitors at the 1994 Trade Show this fall, 21-24 September, at the Civic Center.

• IMTA is pleased to announce that the Irish government has invited IMTA to hold its 1995 Conference and Trade Show in one of the most prestigious buildings in Ireland, Dublin Castle. "IMTA Dublin 1995" will be the largest trade show ever held there, so be sure to mark 13-15 September, 1995, on your calendar for this opportunity to see the latest in maps.

Other News

• The Buckminster Fuller Institute has moved to 2020 Alameda Padre Serra, Suite 24, Santa Barbara, CA 93103 (805/962-0022; fax 962-4440). All of the Fuller artifacts, games, puzzles, books, tape and other objects are now at this new address.

• From Compass Maps (112 Kansas Blvd., Modesto, CA 95351; 209/529-5017; fax 529-0614), the newly created 214-page Las Vegas-Clark County street & road atlas ($19.95) includes arterial coverage of all of Clark County and full residential street-level detail of all urban areas in the Las Vegas Valley.

• Delorme Mapping Co. (POB 298, Freeport, ME 04032; 207/865-1234; fax 865-7080) now has Street Atlas USA — a street map for the U.S. on a CD-ROM — available in version 2.0 for Apple Macintosh, in addition to the DOS version. Areas are accessed by entering telephone exchanges, zip codes, or place names; a user can zoom in or out, to get different levels of detail, and can print maps directly or export them to other applications.

• Hubbard Scientific (3101 Iris Avenue, Suite 215, Boulder, CO 80310; 303/443-0020, fax 443-0058) has new raised-relief state maps of California, Colorado and New York, in tear-proof vinyl. These maps combine shaded-relief artwork from Raven Maps & Images with Hubbard's raised-relief technology, offering a unique visual state reference: California (18"x32", 1-1,000,000); Colorado (19"x25", 1,500,000); and New York (21"x27", 1,500,000) $23.95 each.

• A new vegetation map of Iceland (1,600,000, 27"x40"), computer-generated using Landsat TM satellite images taken in late summer, 1980-1992, is available from the Iceland Geodetic Survey, POB 5060, 125 Reykjavik, Iceland (354 (1) 68 16 11; fax 68 06 14).

• Map Link's new Fall 1994 catalog is now available (25 East Mason Street, Santa Barbara, CA 90101; 805/965-4402; fax 800/627-7768).

• Map Link now distributes maps from the Automobile Club of Southern California, those maps that
everyone always asks for - essential for driving through southern California, on its many highways and backroads.

• The Map Store (2911 Ingersoll Avenue, Des Moines, IA 50312; phone/fax 515/274-5010) is marketing Magic Mug ($14.95), a product unique to Des Moines; fill it with a hot beverage, and it transforms Des Moines At Night to Des Moines At Sunrise!

• Periplus Editions (2A Paterson Hill, Singapore 0923; 65 734 8842; fax 734 8127) has a map, Cambodia, which includes the first up-to-date map of Phnom Penh city to be published in 30 years; it also includes Angkor Wat temple sites. In the US, this map is stocked by Map Link and The Map Store (Dublin OH). $6.95.

• Szerfas Cartographic Agency (Repassy Jeno utca 2, IV 27, H-1149 Budapest, Hungary; phone/fax 36 (1) 613 06 72) has a new digital map of Budapest, from DIMAP, containing the street network, hydrography and railroad lines, at 1:20,000 scale. The map comes on 12 floppy discs, as .dwg or .dxf files, and can be used on IBM PCs.

• Trailhead Graphics (2555 Walnut Street, Unit B, Denver, CO 80205; 303/292-4707) has issued the first two of a new series of expertly researched and designed maps of U.S. Civil War battlefields: Kennesaw Mountain Battlefield; and Shiloh Battlefield. Maps have printed alphabetical index on the reverse; they’re $7.95, and available from Map Link.

• Wide World of Maps (2626 W. Indian School Road, Phoenix, AZ 85017; 602/279-2323, fax 279-2350), a cartographic division of Wide World of Maps, has just published the 1994 editions of its Metropolitan Phoenix Street Atlas ($14.95) and Metropolitan Tucson & Eastern Pima County Street Atlas ($12.95). They are updated to show the many changes in these rapidly growing cities.

Digital News

• If you’re interested in global positioning systems/satellites, you may want to find out about the GPS International Association, (Dr. Francis X. Kane, President, GPS International, POB 1808, Grapevine TX 76099-1808) Yet more vocabulary, in this case, “hash function” - it’s an algorithm which converts any collection of numbers into a single, distinct number (perhaps of a score or a hundred digits) which has no meaning in itself but which will uniquely represent the set of numbers from which it was derived. A one-way cryptographic hash of a document may be created using mathematically complex, but computationally speedy, techniques. The process ensures the uniqueness of the hash and also its non-reproducibility ...” (p. 3 of: Graham, Peter S. 1994. Intellectual Preservation: Electronic Preservation of the Third Kind.

• And how about SGML (Standard Generalized Markup Language)? The first time your Editor heard about this, it was in reference to having AACR2 put it in. From p. 73 of Publish for June 1994: “SGML separates the creation, management, and formatting of documents into three clearly delineated tasks and has specialized tools for executing each. SGML documents have three parts: the SGML declaration for technical syntax; the DTD, which elaborates structural rules; and the Document Instance, which is specific tagged content. A fourth part can be built to specify output format, but filtering to a composition engine such as Ventura Publisher or QuarkXPress is a more common solution. SGML files provide word processors and page layout programs with tagged, stylesheet-ready text.”

• Take a look at Internet World: The Magazine and Review for Internet Users; Jan/Feb 1994, $4.95 (Meckler Corporation, 11 Ferry Lane West, Westport CT 06880; meckler@imnc.net) Such goodics as finding out about the NATO Science, Environmental Data mailing list (NATOSDATA); to subscribe, send email to listserv@cc.le_kuleuven.ac.be, with the text, “subscribe NATOSCI firstname lastname.” And then on p. 14, U Mich’s Library School is sponsoring a Clearinghouse for Subject-Oriented Internet Resource Guides. Anonymous ftp to: una.lib.umn.edu. Then: directory:/inetdir. By Gopher to: una.lib.umn.edu; then: item; then: Name=Clearinghouse of Subject-Oriented Internet Resource. Questions? lou@umich.edu (Louis Rosenfield).

• A nice summary from NSSDC News (winter 1993/94) about what WAIS and World Wide Web are - WAIS: client/server system, deve-
op ed by Thinking Machines as a sample application of Z39.50; simple way to have full-text indexing and searching of documents. WWW - global hypermedia system, built on client/server architecture; servers deliver graphics, text, sound, animation, over the Internet.

- From p. 22 of Electronic Documents, v. 1, no. 12: "Effective data rates on current ethernet technology are inadequate for the multimedia electronic journal."


- Periodical your Editor hasn’t seen but has heard good things about - Imaging Magazine (ISSN 1063-4320); Telecom Lib, NY is what is on my scrawled note, plus a telephone number (212/691-8215).

- Get yourself a copy of NSF Network News. March/April 1994, vol. 1, no. 1, has some COLOR MAPS!!! of areas that are Internet capable. (InterNIC Information Services, General Atomics, POB 82608, San Diego CA 92186-9784; info@internic.net)

- TIFF (Tagged Image File Format), a standard for images, is now in version 6.0. ANSI has approved "TIFF/IT8.8, Graphic Technology—Prepress digital data interchange-Transport independent file format encoding of raster image data. This new format adds more tags to files, to describe unique features, such as scanner calibration targets. This should result in consistent color across platforms and applications. For more info: 703/264-7200, ITB Secretariat at Association for Suppliers of Printing and Publishing Technologies. (I can’t find the cite, but am reasonably sure it’s from Publish).

- A few notes on modes of storage:
  a. from a GMR (Government Micro Resources Inc., 14121 Parke-Long Court, Chantilly VA 22021-1646) advertisement: "To store 550 MB of information you’d need a truckload of paper. A bushel of floppy disks. A six-pack of removable cartridges. A trio of 9-track tapes. Or one of these [writable Kodak CD]"
  b. Then, from CD-ROM Today (no date but recent), news about the XA-format disc, which seems to be a type of CD-ROM. It can hold up to 18 hours of audio.
  c. Preservation abilities of DAT (digital audio tape): seems not good; tape can be altered without detection; tape is same thickness (.5 mil) as a C90 cassette and thus fragile; lots of info squeezed into small space, so dirt/lint can mess up a lot (from Barbara Sa gravas, sagra ves@nuacvm.acns.nwu.edu - 5/94 email message)

- Data:
  a. Geosystems (division of R.R. Donnelly; 717/293-7500) has a new product, AAA Trip Planner - software package for use with Windows.
  b. CD-ROM Title Wave!: catalog from Educorp, 7434 Trade Street, San Diego CA 92121-2410.
  c. There is an electronic, multimedia version of the National Atlas of Sweden: get info from Goran Baarnthelm, Kuningligen Biblioteket, Kart- och Planschavdelningen, POB 5039, S-102 41 Stockholm, SWEDEN.

- The British Columbia Geological Survey Branch has released the first of a series of geological map compilations in digital format, 1:250K. Open File 1994-6, Vancouver Island (92B, CRF K1: 1021). $75 for diskettes, map and text. Digital files are in .dxf (AutoCAD). Hmm says here that the agency's publications are available from: Crown Publications Inc., 540 Yates Street, Victoria, BC V8W 1K8. Elsewhere in this IB (in News, Canada) is given the Branch's address.

- Maps Alive!: The Newsletter of Computer Integrated Geography has changed address - CIG Technologies, Maps Alive, POB 18127, Huntsville AL 35804.


- Magellan Geographix (6464 Hollister Ave., Santa Barbara CA 93117) has for sale MGDigital Atlas. Advertisement comes on a nifty postcard - world on white, with one corner torn back to show street map of Santa Barbara.

- There is a new GIS site under development at Oregon State University. Use the Forest Science Laboratory Gopher to find the data you need. Then fill out the request form and send to: GIS-request@fsl.orst.edu.

- To get a copy of a 20-p. bibliography of GIS and LiG, send to Mary E. (Betty) Graziani,
Technical Information Specialist,
USGS, National Map Division
Reference Collection, MS-522,
Reston VA 22092.

j. For a GIS Master Bibliography
Materials - anonymous ftp to
bsnet.sbs.ohio-state.edu. Go to
biblio directory.

k. The ArcData catalog (product of
ESRI, Redlands CA) is available on the
Internet:
  1. ftp to redlands.esri.com
  2. login as anonymous
  3. type your email address as
     password
  4. ftp>cd /pub/outgoing/arcdata
  5. ftp>get <filename> (to
download single file)
  6. ftp>mget *.txt (all files)

l. From British Ordnance Survey
educational suppliers or from
Geonex (Geonex UK Ltd, Arthur
Street, Barwell, Leicestershire LE9
8GZ, GREAT BRITAIN):
Discover York CD-ROM. £99
(single user)

m. A digital mapping system is
being installed at the Geographic
Survey Institute, Tsukuba, Japan;
it is intended to help map and
monitor natural disasters and
figure out relief operations (p. 10,
GIS World, March 1994).

n. Available from natgeo3
@capcon.net: “National Geo-
graphic Magazine, supplement
maps, Library/Map Collection,

o. Vendor for Geographic Calcula-
tor is: Blue Marble Geographics,
46 Water Street, Gardiner ME
04345.

p. Los Angeles, CA, color earth-
quake aerial photo update - now
available on CD from WAC
Corporation, 520 Conger Street,
Eugene OR 97402-2793

q. Now available on CD - Antarctic
Digital Database. $150.00 from:
SCAR Secretariat, Scott Polar
Research Institute, Lensfield Road,
Cambridge CB2 1ER, United
Kingdom.

r. There is a review of a computer
atlas of Russia (compiled by the
Russian Academy of Sciences ) in
the May 1994 issue of the AAG
Newsletter.

t. The County Boundary Historical
Atlas (Windows) for the U.S. is
available for $39.50 (basic
package) from Gold Bug Maps,
POB 588, Alamo CA 94507;
goldbug@aol.com.

u. From CANATEC Consultants
Ltd., #1730, 700 - 6 Avenue
Southwest, Calgary, Alberta T2P
0T8:
  1. regional ice atlases for areas in
     Arctic (@$2,500 US)
  2. Antarctic sea ice atlas ($350
     US)

• And a touch of humor, via
candy@omni.ucsb.edu, concerning
the problems computer users have:

  a. the person who pushed and pushed
     on the foot pedal and nothing
     happened (it was the mouse);
  b. the person who unpacked the pc,
     plugged it in, opened it up, and
     then sat there for 20 minutes
     waiting for something to happen.
     When asked what happened when
     she pressed the power switch, she
     asked, “What power switch?”
  c. One mouse user held the mouse
     and pointed it at the screen,
     clicking madly. And getting no
     response.
  d. One person was having trouble
     reading used diskettes. When
     asked how the diskettes were
     treated - “I put a label on the
     diskette, roll it into the type-
     writer ...”
  e. One user complained about a
defective floppy, and sent a
photocopy of the diskette in as
proof.
  f. Another user complained that he
  couldn’t get his pc to fax
  anything. Seems he was trying to
  fax by holding the piece of paper
  in front of the monitor and hitting
  the send key.
  g. Yet another complained that the
  keyboard wouldn’t work - he’d
  cleaned it by filling up his tub
  with soap and water and soaking
  it for a day, then removing all
  keys and washing them individu-
ally.

There, don’t you feel computer-
literate now?

Remote
Sensing News

*“Australia from space: with
TerraScan” is a CD. $3A000 from
Resource Industry Associates, 538
Brunswick Street, Fitzroy North,
Victoria 3068 AUSTRALIA. The
software runs on 386 PC, 4M RAM,
MS Windows 3.1, 256-color display.
*Address your Editor had somehow
missed before: Australian Centre for
Remote Sensing (ACRES), Dunlop
Court, Fern Hill Park, BRUCE
(honest, that’s what it says) ACT
2617; mailing address, POB 28,
Belconnen ACT 2616, AUSTRALIA.
ACRES has a periodical called
ACRES Update.
Earlier in the year, ERIM (Environmental Research Institute of Michigan) had available free 1994 calendars (or you can just stuff this address away in your December to-do folder, and send for a 1995 calendar then): ERIM, POB 134001, Ann Arbor MI 48113-4001. More of the same - EOSAT had a free 1994 calendar - EOSAT, 4300 Forbes Boulevard, Lanham MD 20706-9954.

A poster summarizing the major characteristics and mission of the Moderate Resolution Imaging Spectrometer (MODIS) is available free from: Hughes Santa Barbara Research Center, 75 Coronar Drive, Goleta CA 93117.

The Swedish Space Corporation has issued a "Launching Programme" diagram. 1993-1997. Request your copy from them at: SSC, Esrange, POB 802, S-98128 Kiruna, SWEDEN. One of their recent newsletters had an article by H. Potter, "A new Swedish era is beginning in Estonia - in mapping." Your Editor always finds something of interest in the agency's mailings.

The European Space Agency issues press releases that are worth your getting on the mailing list for if your users are interested in remote sensing: European Space Agency, Public Relations Division, B-10 rue Mario-Nikis, 75738 Paris Cedex 15, FRANCE. For example no. 07-94 is, "Meteosat 6 experiences anomaly." Also, take a look at the ESA Bulletin, no. 77, February 1994 - the cover and some of the illustrations inside are the fun kind that require blue (left eye) red (right) glasses, which ESA thoughtfully provides with the issue. 

The article is, "First accurate threedimensional mapping of the celestial sphere" by Hipparcos.

From a press release of 3/10/94: "The President [of the United States] announced that the Administrat will allow for the expansion of the sale of images taken from space and the export of the systems themselves.... Under the policy, U.S. companies will be licensed by the Secretary of Commerce to operate private remote sensing systems and sell those images to domestic and foreign entities...." (it goes on for about another 5 pages; let your Editor know if you need to see a copy of all of it)

From the fall/winter 1993 EOSat Notes, p. 15: "Landsat 5 remains healthy, with enough fuel to take it to the turn of the century." Just as well, since according to an e-mail message in GIS-L of 2/7/94 from Nick Beser, Applied Physics Lab, "I attended a meeting last week where the Landsat 7 cancellation was discussed. I had heard that Landsat 7 was officially cancelled. NASA would not fund the ground station at the levels required by DOD. NASA will instead go for a smaller Landsat and DOD will use other platforms for their data." Your Editor has a communication dated 1/13/94, from Landsat Project Scientist Darrel Williams, to the Landsat User Community, which states the original plan - to build, launch (3/98) and operate for 5 years Landsat 7.

EOSAT has a CD out, "Sample satellite remote sensing data: data sets LISS-I, LISS-II, TM." (LISS is the satellite launched by India.) Your Editor doesn't know when/if this CD will be available generally; you could inquire at 1-800-344-9933, EOSAT's toll-free number.

Another purveyor of remote-sensing-image posters: EOM Inc., 13741 E. Rice Place, Suite 125, Aurora CO 80015.

The CIA believes that Russia plans to market very high resolution satellite imagery (greater than 2 meter) that it currently sells, greater than the 1-meter images that DC is now allowing to be placed on the market by commercial firms (Aviation Week & Space Technology, April 11, 1994, p. 19)

Periodicals

ACMLA Bulletin, no. 90, March 1994: "Election 93: Digital Mapping Meets the Media" by Peter Paul; "Environment and Mapping: The Experience of the Western Canada Wilderness Committee," by Ian Parfit; "Resource Sharing Projects of the OCUL Map Group" by Cathy Muller; news, reviews, new pubs.


Cartographic Perspectives, no. 17, Winter 1994: "How practical are minimum-error map projections?"; John P. Snyder; "Reexamining the role of maps in geographic education: images, analysis, and evaluation," James E. Young; reviews, news, announcements.

Mapping”; “GIS Enhances Study of Geologic Sources of Radon” and several more articles

**Geo Info Systems**, 4(3), March 1994: “Patterns on the steppe: applying GIS to the archaeology of the Altay Mountains”; “Rome links ancient cartographic data with GIS technology” several more

**GIS World**, 7(3), March 1994: cover story is “Czernobyl: GIS Model Aids Nuclear Disaster Relief!” news and notes; **GIS World** has been acquired by Longman Group UK.

**Global Climate Observing System Newsletter**, no. 1, March 1994: available from Global Climate Observing System. c/o World Meteorological Organization, POB 2300, CH-1211 Geneva 2, SWITZERLAND.


**Mapline**: a quarterly newsletter published by the Hermon Dunlap Smith Center for the History of Cartography at the Newberry Library, nos. 72-73, winter/spring 1994: cover story, “Maps of the National Highways Association from a recent gift,” conferences and exhibitions; announcements; new pubs.


O’Malley, H.E. McFarlane; “New mediums and presentation devices: implications for cartography and map collections,” William Cartwright; shorter communications, reviews.

**Cataloging (cont’d fr p. 127)**

(located for the new edition at the Geography and Map Division, Library of Congress) sent me a copy of the manual in digital form; I shall enter Dorothy’s and my requests for change (noting by organization initials whose request each is) and send copies to Elizabeth and Dorothy — and probably to anyone else who sends me a diskette. I’m also going to try to have them loaded on the FTP site here at the Map & Imagery Lab. I’ll keep you informed.

**Preservation (cont’d fr p. 137)**

Library of Congress (LMG07), Washington, D.C. 20540-4540, 202/707-1838

- Handy tip from George Bradford (attendee at the WAML Conference at UC Riverside): to take dirt off maps gently and effectively, get at your local hardware store “One Wipe,” about 8"x10"; it’s a hydrostatic sponge. Have about 6 of them; after using sponge, wash and let dry.

- New! revised! and equally as importantly, free! There are new and revised CCI Notes from the Canadian Conservation Institute (613/998-3721; fax 998-4721). New: 1/5, “Applying registration numbers to paintings and sculptures; 10/11

“Condition reporting - paintings. Part III: Glossary of terms.”

- In case, like your Editor, you can’t find the addresses - following,
courtesy of JK Herro (Stanford) are addresses for firms selling swing-open security map-case bars:
McDowell-Craig Mfg. Co., 13145-T Firestone Blvd., Norwalk CA 90650;

Conferences (cont’d fr p.152)
avec dip (but of course); various kinds of cookies; jelly beans; almonds; and probably more that I’ve somehow forgotten (too busy munching on jelly beans). And then there was the nrsday mngt banquet: mixed greens California style (radicchio peeping shly out here and there); chicken with wild rice, asparagus, and summer squash; then champagne (to cleanse the palate), followed by a chocolate/pecan tort with chocolate cream squiggled on top. Fortunately, all of us were able to waddle away, to cat another day. Fortunately, because Friday lunch was at the Botanical Gardens, and besides considerable beauty for the eye included 6-foot-long sandwiches (no, no, not per person) and a spiffy cake - photograph appears elsewhere in the IB.

Enough of that - on to the papers! 3/31: Welcome and introductory remarks (Jim Thompson, University Librarian, UC Riverside); Sounding Board; “Bureau of Land Management, Mapping Ancient and Modern,” Rob Wilwood, BLM; “Promoting and Bringing a GIS System into a Library” panel discussion with city GIS Specialist Chris Thomas, Sean Bearly (Systems Manager), and James Augur (Adult Services Librarian). WAML banquet at the Mission Inn that evening.
4/1: “Creating a New Mapping Facility,” Steve Park, Southern California Earthquake Center; “Creating a New Mapping Scale,” Doug Morton, USGS; ESRI Program in the computer room, Graduate School of Business Administration.
4/2: field trip, San Andreas Fault, Mill Creek to Wrightwood; led by Peter Sadler, UCR Earth Sciences Dept. Chair.
•May 24-26, 1994 Spatial Data Transfer Standard Implementation Workshops, Western Mapping Center, USGS, Menlo Park CA. For more information: SDTS Task Force, 526 National Center, Reston VA 22092.
•June 5-8, 1994 GIS in Business ‘94 Conference and Exposition, San Francisco. GIS World, Inc., Conference Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins CO.
•June 3-8, 9-12, 19-22 GIS Literacy Institute for Librarians, University of Iowa. Sponsored by the U.S. Dept. of Education; 3 4-day training sessions. For more information: University of Iowa Center for Conferences and Institutes, 319/335-3231.
Users of Geo-Referenced Data (“APL Canadian GIS Literacy Project,” Prue.
Adler and John Black; Bob Maher, Education and Training, Ontario Ministry of Natural Resources; Demonstrations of electronic products (Natural Resources Canada; Statistics Canada); Group Discussion Session - New Initiatives in Map Librarianship (e.g., promoting and marketing products and services; coping with shrinking budgets; future job requirements for the map curator; integrating digital products in map collections); vendor fair (demos of cartographic products), For more information: Flora Francis, University of Guelph, Ontario (519/824-4120)


• June 24-25, 1994 Fourteenth Annual Symposium, International Map Collectors’ Society, Cambridge. The IMCoS-R.V. Tooley Award for 1994 will be announced at the dinner on 6/24; Roger Fairclough (Head of Accessions Division, University Library) will speak on the map collections, and relate some amusing anecdotes about accessions. 6/25: visits to the University Library, Whipple Museum for the History of Science, Trinity College; and Scott Polar Research Institute. For further information: Harry Pearce, Hon. Sec. IMCoS, 28 Mount Ephraim Road, Streatham. London SW16 1NO GREAT BRITAIN.

• June 25-June 28, 1994 ALA Annual Conference, Miami. Map and Geography Round Table meetings include program on mapping of Florida, and a session on map cataloging for non-map librarians.


• August 22-26, 1994 International Geographical Union Regional Conference on Environment and Quality of Life in Central Europe, Charles University, Prague, Czech Republic. For more info: Ralph Ehrenberg, Chair LG&M, DC 20540; fax 202/707-8531.


• September 1-4, 1994 Eighth Symposium, International Coronelli Society, concerned with the history of globes and armillary spheres, will be held in Prague. For further info: Internationale Coronelli-Gesellschaft, Dominikanerbaestei 2128, A-1010, Vienna AUSTRIA.

• September 7-10, 1994 Western States Geographic Names Conference, Rapid City SD.

• September 8-9, 1994 WAML at Jackson Hole WY; University of Wyoming/National Park Service Research Center in Grand Teton National Park, about 30 miles north of Jackson WY. Linda Zellmer of
Trap That Tiger!!

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the University of Wyoming Libraries is the Program Planner. Preliminary list of papers: "Mapping the Jackson Hole Region," by Bill Resor (Wilson WY); "A New View of Planning, the Case of Teton County," Bill Collins (Teton County Planning Director); "Haynes and Yellowstone: A History," Richard Saunders (Hanes Collection, Montana State University); "The Yellowstone Bibliography" Deborah Dawson (U WY); "Practical Solutions to Common Problems: Converting to Automated Circulation of Maps." panel - those with experience are invited to give a short (10-15 minutes) presentation on her/his Library's experiences and solutions. The Park Superintendents at both Grand Teton and Yellowstone National Parks have been contacted about providing speakers on other topics, such as the development of a fire management plan for the Greater Yellowstone Region, and GIS in the parks. A field trip to tour the Upper Loop of Yellowstone National Park is also being planned. Housing will be at Colter Bay, one of three hotel areas in Grand Teton National Park. Ten 2-room cabins, each with a double bed, 2 twin beds and connecting baths, and 5 1-room cabins, 3 with double beds and 2 with twin beds and individual baths have been reserved. Double-room cabins cost $75 per night and single-room cabins cost $55 per night. Space should be reserved by getting in touch with Linda Zellmer (lzellmer@uwyo.edu); 307/766-2633; fax307/766-6679. Rooms not reserved by August 8, 1994 will be released.


-Fall 1994 Geoscience Information Society; tentative topic, "Changing Gateways; the Impact of Technology on Transfer of Information," Info: Barbara Hance (see WAML spring '94 conference for address; obviously a VERY busy person!)

-October 14-15, 1994 "Reading the World: Historic and Contemporary Perspectives on Maps," Portland Maine. some of the nation's leading cartographic experts, including the author of the popular The Mapmakers, will be among the featured speakers in a map conference to celebrate the opening of a rare-map library in the northeast U.S., the Osher Map Library and Smith Center for Cartographic Education at the University of Southern Maine. Opening evening: dealer exhibits, panel discussion, "Mad Mappers Picnic," keynote address by John Noble Wilford (NY Times columnnist and author of The Mapmakers. October 15: "The Use of Maps in Liberal Education," David Woodward; other speakers include Dennis Wood (North Carolina State) and Anne Godlewska (Queens University). All sessions will be held at the Holiday Inn by the Bay.

The Osher Map Library and the Smith Center for Cartographic Education (the first separately established rare-map library in northern New England) will officially open the exhibition room of the map library in late October. The library will be the home for the Harold L. Osher and Peggy L. Osher Collection, and for the Lawrence M.C. and Eleanor Houston Smith Collection of rare maps, atlases and globes.

These collections were donated to the University of Southern Maine in the late 1980s. A group of international map scholars and community volunteers recently completed a successful $1.5 million campaign to support and preserve the collections.

The collections, which span the years from 1475 to the present are composed of 20,000 maps, as separate sheets or bound in more than 600 rare books and atlases. While the scope of the collections is global, the discovery and exploration of North America and New England in particular are well documented.

The late Lawrence M.C. Smith and his wife, the late Eleanor Houston Smith, collected maps for more than thirty years. Longtime residents of Freeport, they were instrumental in the acquisition and conservation of public lands.

Harold and Peggy Osher are longtime residents of Portland, where Dr. Osher served as director of cardiology for the Maine Medical Center. Both have been active in art and cultural organizations. The donors have stipulated that the
collections be shared with serious researchers and amateurs through exhibitions, lectures and other special events open to the public.

A board of nationally recognized experts, from the Library of Congress and other organizations, has been established to advise the university on the management of the collections, now housed in the new library.

Materials for the celebratory conference will be mailed on July 1, 1994. Deadline for registration and accommodations is 9/15/94. For more information: 207/780-4542; Office of Media and Community Relations, University of Southern Maine, 96 Falmouth Street, Portland.


•May 9-13, 1995 WAML meets with ACMLA at Vancouver. While overall theme has not yet been established, confirmed sessions are: Mapping the First National Lands in the Pacific Northwest; Environmental Mapping by Non-Governmental Organizations. Probable sessions: Current Trends & Future Directions in Map Collections; tours of GIS and high-tech installations in the Vancouver area. Possible sessions: coping with change for specialist librarians at the personal, professional and organizational level. For more information: Tim Ross, Map Library, Main Library, University of British Columbia, 1956 Main Mall, Vancouver, British Columbia V6T 1Z1. Communicate with Tim by August 1, 1994 if you’re interested in presenting a paper.

•Fall 1995 WAML at Las Vegas: tentative plans for post-conference raft trip down the Colorado. Kathy Rankin, Library, Univ. of Nevada, Las Vegas.

•September 11-16, 1995 16th International Conference on the History of Cartography, Vienna. Topics: central, eastern and southeastern European cartography; Near and Middle Eastern cartography; relief representation; map reproduction; celestial charts; Varia. More info: 16th International Conference on the History of Cartography, c/o Austrian National Library, Map Dept. and Globe Museum, Josephplatz 1, A 1015 Vienna AUSTRIA.

•October 2-5, 1995 Joint IMCoS/California Map Society meeting, San Francisco; theme – “Alaska to Panama: the Mapping of the Interior of Western North America.” First 2 days – map fair, reception, map auction; 2nd 2 days, papers and visit to UCB and Bancroft, Stanford or USGS. Optional post-conference tours (possibilities: wine country; Yosemite; southern California).

•Spring 1996 WAML meeting at Sacramento. Sylvia Bender-Lamb, California Division of Mines and Geology, Sacramento.

•May 12-18, 1996 Kartographiekongress 96, Interlaken. More info: Kartographiekongress 96, Hardstrasse 73, CH-5430 Wettingen, Interlaken; fax 056/37134

•Fall, 1996 WAML meeting in Seattle. Kathryn Womble, University of Washington.

•Spring, 1997 WAML at Arcata CA. Bob Satherum.

•Fall, 1997 This will be WAML’s 30th Conference! If you would like to host it, get in touch with the WAML Executive Board.

cARTe/Cartomania

•See 1(3) of Art Reference Services Quarterly – the entire issue is devoted to maps - such topics as urban maps and fire insurance plans. Haworth Press (1-800-342-9878)

•In his undying, selfless search to find maps in unlikely places, Jeremiah Post (Free Library of Philadelphia) has even been known to frequent bars. His latest find is a coaster advertising Pete’s Wicked Lager (Palo Alto), which coaster has a map (not identifiable in the photocopy) as a background.

•And now, another classic reference question, courtesy Stan Stevens’ memory: “Is it possible to give me the coordinates (and the price) of the maps/catalogs of the islands, islets and atolls on Planet Earth, with vegetal, animal and human population and climate description?”

•Seen on a coffee mug: “A library is not a luxury but one of the necessities of life.”

•Oh, I can feel myself falling for these - antique-map tapestry, 100% cotton luggage! Garment bag (gulp - $190), tote (a measly $118), and duffel ($148). Charles Keath, Lt., 1265 Oakbrook Drive, Norcross GA 30093.

•Rand McNally’s done it again — another “Gift Atlas Spring 1994” catalog. 2515 East: 43rd Street/POB 182257, Chattanooga TN 37422-7757 (First time your Editor has seen THAT address).
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