WESTERN ASSOCIATION OF MAP LIBRARIES

"... to encourage high standards in every phase of organization and administration of map libraries ..."
THE ESTABLISHMENT OF THE WAML NEWSLETTER

Last fall, the first issue of the WAML Newsletter was published as an experimental venture. Among the reasons for its publication were: 1. the decision of the membership to conduct its business by mail and informal meetings, 2. the fact that a majority of the members would not be able to attend any one of the semi-annual meetings yet needed to be informed of the activities and accomplishments of the Association, and 3. the need for a means to publish short articles or newsbriefs of interest to those who work in the map libraries of western Canada and the western United States.

The response to the first Newsletter was very encouraging. Many members commented on its usefulness; the Executive Committee approved it unanimously.

The Newsletter will, therefore, become an official publication of the Western Association of Map Libraries. It will be edited by the president. Any member or friend of the Association who wishes to publish short articles or news items of interest to the general membership is encouraged to do so. Newsletter items should be addressed to the president. Until July 1, 1970, all script should be sent to:

Robert Sivers
Map Room
Sciences-Engineering Library
University of California
Santa Barbara, California 93106

All items contributed by members other than the president will appear with the appropriate by-line. As is standard practice with other publications, the editor reserves the right to accept or edit contributions. Contributors will be notified of acceptance or rejection, and publication of an article with any substantive changes by the editor will be done so only with the approval of the writer.

The Newsletter will be published at least three times during the year a given president holds office: approximately one month before each semi-annual meeting, and for the third time as the president's term ends. It will also be published at any other time specifically requested by a majority of the Executive Committee. Volume numbering will change as each president takes office.
PROGRAM FORMAT AND PROGRAM ANNOUNCEMENTS

At the fall meeting, president-elect Mary Schell, distributed evaluation forms on the new format for WAML programs. As members will recall, the new format requires at least one topic of interest to those associated with map collections in public libraries. Four topics are chosen with preference given to a guest speaker for one topic. Excluding the talk given by the guest speaker, each topic is treated by a panel planned by a coordinator. Each panel is limited to a 45-minute presentation; 15 minutes are allowed for questions. The business meeting is limited to the formality of reading proposals submitted for ballot and the reporting of decisions by the Executive Committee.

Of the evaluation forms returned, all were enthusiastic about the new format. Several members chose to comment verbally. Two members, while approving generally of the change, felt that the limitation of 45 minutes for each panel did not permit enough time to treat some topics as thoroughly as they should be. There are two means by which this objection can be met: 1. the president-elect and panel coordinator can define the subject so that 45 minutes is adequate to treat the topic, or 2. arrangements can be made to use two or more panels to treat the subject, if there is sufficient interest within the Association.

Given the response to the new format, Mary Schell and I recommend its adoption, until the membership requests that it be changed.

The program for the spring meeting which you will find in a separate section will be held at the University of California, Santa Cruz, on Saturday, April 25th. Our treasurer, Stan Stevens, will be host. The date chosen complies with the members' decision to hold meetings on Saturdays (of which more is said in a section later on in the Newsletter). The regular program will be supplemented by a special pre-meeting tour at the United States Geological Survey, Menlo Park on Friday, April 24th. Eleanor Wilkins and William Sanders will be co-hosts. All members are urged to attend the pre-meeting tour. Here will be our opportunity to talk with those who produce what is undoubtedly among the most important series of maps in our collections and to find out how topographic maps are compiled, drawn, and printed. For those who collect geological maps, learning about the collection at Menlo Park will be important, since this branch of USGS is responsible for a definitive collection of geologic mapping of western North America. Maps are available on interlibrary loan to qualified borrowers.

Members who plan to attend the tour or meeting should fill out and mail the attendance forms no later than the 7th of April. This will allow our hosts adequate time to plan for the tour and meeting.
NOMINATIONS COMPLETED FOR NEW OFFICERS

Under the revised constitution (a copy of which is included in this mailing), the president-elect (1969/70) automatically succeeds to the presidency on July 1, 1970. The current president will, on the same date, become immediate past president. Both will serve on the Executive Committee. All other officers must be elected for the term July 1, 1970 - June 30, 1971.

The Nomination Committee, composed of Edward Jeste, Himi Sayer, and Stan Stevens (Chairman), reports the following members who accepted the committee’s nomination for the offices listed below:

President-elect
Albert Colombo, Assistant Professor of Geography, San Diego State College
Edward Thatcher, Map Librarian, University of Oregon

Secretary
Ruthanne Lowe, Library Assistant, University of California, Los Angeles Map Library

Mrs. Karen Scannell, Principal Librarian, History Department, San Francisco Public Library

Treasurer
Stanley Stevens, Map Librarian, University of California, Santa Cruz

Ballots will be mailed after the spring meeting. The results of the voting will be reported in a subsequent Newsletter.

APPOINTMENT OF CHAIRMAN FOR COMMITTEE ON MINIMUM STANDARDS FOR MAP LIBRARIES

Members of the Executive Committee balloted on the chairman for the newly established Committee on Minimum Standards for Map Libraries. Carlos Hagen, Head, UCLA Map Library, was chosen. Carlos and his committee will be reporting some preliminary findings to the membership within the next year.

WAHL ARCHIVES ESTABLISHED AT UNIVERSITY OF CALIFORNIA, BERKELEY

No objection was received from members regarding the proposed establishment of WAHL archives at UCB. The Executive Committee passed the proposal unanimously and appointed Sheila Dowd, Librarian in charge, Map Room, University of California, Berkeley, California 94720, as WAHL Archivist.
Members or other interested individuals can write Miss Dowd concerning reproductions of past bibliographies or articles prepared for WAHL or for information on past activities of the Association. The archives will also contain publications of other map library associations received as gifts or purchased for WAHL.

DECEMBER 1969 BALLOT RESULTS

Three ballot proposals were mailed for voting to the forty-nine members of WAHL. Listed below are the proposals, results, and some comments.

Ballot Proposal 1. The Executive Committee shall establish a Committee on Acquisition Sources. The charge to the committee shall be to compile a list of addresses of important map producers and dealers throughout the world and to produce an area-subject index to the maps distributed and dealers listed.

Results: Of the forty-nine eligible voters, thirty cast ballots. Twenty-nine voted in favor of the proposal; one voted against. The proposal passed.

Comment: Just days after the ballot results were given to the president, he received a current issue of the Newsletter published by the Association of Canadian Map Libraries. There he learned that a project similar to that adopted by WAHL has been under way for some time. ACHL so far has collected over 1,500 addresses. The Association plans to publish such a list soon. On recommendation of the president, the Executive Committee has voted to delay implementation of the committee established by the voting on ballot proposal 1 until members have been able to examine the forthcoming publication of ACHL.

In the meantime, the Executive Committee wishes to thank the following members who volunteered to serve on the committee: E.H. Bryan, Jr., Anna Chiong, Anne Christopher, Sheila Dowd, Barry Gardner-Smith, and Wallace St. Clair.

Ballot Proposal 2. The Executive Committee shall establish a Committee to Investigate Sources of Foreign Mapping. The charge to the committee shall be to investigate possible means of obtaining published foreign topographic and subject mapping not presently available to non-AMS depository map libraries or to map libraries in general; and to report the results of the investigation to the Executive Committee.
Results: Of forty-nine eligible voters, twenty-nine cast ballots. Twenty-five votes were cast in favor of the proposal; four were cast against the proposal. The proposal passed.

Comment: The following members volunteered for the committee: E.H. Bryan, Jr., Albert Colombo, Barry Gardner-Smith, Carlos Hagen, Mary Larsgaard, Stan Stevens, and Ed Thatcher.

The Executive Committee will appoint a chairman or co-chairmen before July 1, 1970.

Ballot Proposal 3. The Executive Committee shall be directed to hold all general meetings of the Western Association of Map Libraries on Saturdays so that members will not have to take time off from their place of employment.

Results: Of forty-nine eligible voters, twenty-five cast ballots. Thirteen voted in favor of the proposal; twelve voted against the proposal. The proposal passed.

Comment: Several members of the Executive Committee have suggested that the margin of one by which the proposal passed indicated that a compromise proposal should be placed before the membership for voting. Accordingly, a proposal will be submitted on a later ballot to alternate meetings between Fridays and Saturdays.

MISCELLANEOUS NEWSNOTES

Map Folder Papers
Several members of WAHL have been investigating 1. the desirability of map folders, 2. best papers to use, and 3. some sources of supply.

1. Desirability of Map Folders
Most of us who work in map libraries will agree that map folders are very much needed if collections are actively used. Folders protect maps from damage when other maps are withdrawn from the drawer. They are useful for organizing maps by area and subject for more efficient retrieval. A serious disadvantage of folders for those who have severely limited space for their collection is that their added bulk reduces the number of maps which can be filed per drawer. Furthermore, the necessary labeling of folders presents a significant demand on the labor available in an understaffed library. If the option is chosen to cut folders in order to save on the high cost of pre-cut folders, the availability of additional labor for cutting, folding, and stacking the folders must be taken into account, in
addition to purchasing and maintaining a large cutter and roll holder.

2. Map Folder Papers to Use

Inexpensive Kraft paper folders such as those which are included with newly purchased Hamilton map cases are in general to be avoided, except for temporary storage. The paper wrinkles easily and soon becomes unsightly and torn, even under moderate usage. Folders are difficult to withdraw because the "tooth" of the Kraft paper causes the folders to "stick" against one another.

In purchasing stock that is dense and smooth, a further consideration is the neutrality or lack of acidity of the paper. Non-acid paper will, other factors being equal, last longer than acid stock. Since the investment in preparing and labeling folders is considerable, the durability of folder stock must be considered. Although no data is available to this writer on the effect of storing map sheets between acidic folders, it is worth noting that J. Douglas Hill of the Library of Congress quotes W.J. Barrow, a well known expert on the preservation of library materials, as saying:

"Some years ago ... a folder of pH 5.8 would have been considered an acceptable folder, but today it is not ... it is not acid free."

3. Sources of Supply

The Library of Congress currently uses pre-cut folders manufactured of Permalife paper by the Hollinger Corporation. The paper is basic with a pH of 8.5. The folders are relatively expensive. A quote for the size of map folders needed by your map library can be obtained by writing:

The Hollinger Corporation
3810 S. Four Mile Run Drive
Arlington, Virginia 22206

For those who may wish to cut their own folders, a quote on .010 Syncropresspak with a pH of 6.5-7.5 can be obtained from:

Riegel Paper Corporation
Paper Division
260 Madison Avenue
New York, New York 10016

A source for a special map folder cutter is:
Zeus Rollcut Company
P.O. Box 296
San Rafael, California
Those who wish to have a successful design for a roll-holder can write:

Carlos Hagen  
Head, UCLA Map Library  
University of California  
Los Angeles, California  90024

All members will be interested in the folder stock used in other libraries, and any problems or advantages discovered in using it. Please address any information to the current president of WAML.

New Book of Interest to Map Libraries

A book of general interest to all map libraries has been published recently. Modern Maps and Atlases; An Outline Guide to Twentieth Century Production was written by C.B. Muriel Lock and published by Archon Books and Clive Bingly in 1969. The author covers the primary producers of topographic and thematic maps as well as national and subject atlases. In addition, Dr. Lock includes short chapters on modern cartography and map librarianship. Carlos Hagen will review the book in a subsequent issue of the Newsletter.

MINUTES, RESUMES AND BIBLIOGRAPHIES FROM THE FALL MEETING, 1969, WESTERN ASSOCIATION OF MAP LIBRARIES

Minutes

The Western Association of Map Libraries met at the University of California, Davis, on Friday, October 24, 1969. Those in attendance were:

Mary Ellen Bailey  
Karyle Butcher  
David Cowan  
Ida Dobber  
Sheila Dowd  
Ruth Elwonger  
John Fetros  
Barry Gardner-Smith  
Carlos Hagen  
Phil Hoehm  
Edward Jestes  
Katherine Karpenstein  
Vera Loomis  
Ruthanne Lowe  
Beatrice Lukens  
Evelyn Percival

California State Library  
Los Angeles Public Library  
California State Lands Commission  
University of California, Davis  
University of California, Berkeley  
California State Library  
San Francisco State Library  
Scripps Institution of Oceanography  
University of California, Los Angeles  
Bancroft Library, Berkeley  
University of California, Davis  
University of California, Davis  
University of California, Davis  
University of California, Los Angeles  
University of California, Berkeley  
University of California, Los Angeles
The meeting was called to order at 9:30 a.m. by President Robert Sivers. It was noted that there were some bibliographies compiled by Richard W. Stephenson from the Library of Congress along with other material available for those who were interested. Bob mentioned that he was trying a new format consisting of three panels and one guest speaker and that he would appreciate comments and suggestions.

The morning panel on Geological Maps was coordinated by Ed Jestes and included Beatrice Lukens and William Sanders. Eleanor Wilkins was unable to attend. Ed Jestes' topic "Geological Maps and Their Use" included a discussion of the various types of geological maps and how to read them, along with mention of the part played by librarians and geologists in using them. This was followed by Beatrice Lukens' explanation of the problems she encountered when she was given the responsibility of organizing and arranging the maps at the Earth Science Library at Berkeley. Especially time consuming, according to her, was the effort made to bring together maps which had been removed from journals and other publications. Finally, William Sanders concluded with a discussion of the classification scheme of the U.S. Geological Library at Menlo Park. He also noted several related magazine articles which he thought might interest the group. A question and answer period followed and we then adjourned for our morning break.

After our break, we heard our guest speaker, Professor David Lee, tell of the use of maps in advertising and propaganda. He presented a very interesting and enlightening talk with reference to maps which had been deliberately falsified, as in the case of maps issued by the Arab and Israeli governments, and maps which had merely been exaggerated for advertising purposes. He cheered everyone present by showing how maps are often used as a symbol for status.

Having adjourned for luncheon, we returned to hear a panel discussion of Nautical Charts, coordinated by Carlos Hagon. Carlos gave the first talk, entitled "Nautical Charts in the Map Library". He discussed the different charts and indexes presently used by the United States and foreign oceanographic offices and passed around samples. He singled out, as being especially helpful, the use of Nautical Charts for locating city plans.
'Oceanographic Surveys of the Scripps Institution of Oceanography' was the topic of Barry Gardner-Smith. Barry had illustrations of some of the ships used by Scripps for the survey, and provided reports issued by those who conducted them.

Ruthanne Lowe concluded with a description of the development of Nautical Charts since the eighteenth century. She had several interesting examples of early charts which are available at the UCLA Map Library.

After the question and answer period, and a coffee break, we proceeded with the final panel composed of Ruth Elwenger and John Fetros who discussed the acquisition of free and inexpensive maps. Ruth emphasized the variety and usefulness of maps which are issued through California state agencies. John, who acted as coordinator because of the illness of Gertrude Cordts, reiterated the need of small and medium-sized public libraries to know the best methods of acquiring maps cheaply. He listed several sources which he thought were particularly valuable.

Bibliographies were distributed by most of the panel members.

The business meeting that followed was very short and consisted essentially of the Secretary reading aloud submitted ballot proposals.

The meeting adjourned at 5:45 p.m.

Respectfully submitted,

Karyle Butcher, Secretary
Western Association of Map Libraries.

Resumes and Bibliographies

Panel I: Geological Maps

Resume of: "Geological Maps and Their Uses" by Edward C. Jestes,
Map Librarian, University of California, Davis

The various types of geological maps are used primarily as tools for the economic exploitation of Earth's limited natural resources: fuel, metals, building materials, ground water. Academically, they are used to reconstruct the history of Earth and the slow development of life which is now in danger of being rather quickly snuffed out by the over-exploitation of Earth's materials due to over-population.
Geological Maps per se: Display the distribution of rock types, faults, veins, and fossil localities. From the disposition of the rocks at the surface, a geologist can fairly accurately predict the distribution of rocks several thousands of feet below the surface.

Gravity maps: The gravitational force of Earth varies over the surface because of: 1. latitude, 2. elevation (distance from Earth's center of mass), and 3. the mass of the surrounding rocks. When a geophysicist measures gravity, he makes corrections for all three factors so he can compare it with gravity at other localities. In the corrections, the major assumption is the mass of rocks immediately below the locality. After making the corrections on the measured force of gravity, he compares his observed and corrected force with the theoretical force of gravity for that latitude. More often than not, there is a slight discrepancy or anomaly that is not explained by observational or computational error. This anomaly may be higher or lower than the theoretical value and is best explained by assuming an excess or deficit of mass below the station where the observation was made. In other words, a mass of rocks of higher or lower density than those seen at the surface. From this it can be concluded that perhaps a trap for petroleum or other economic deposit may warrant further exploration by drilling or tunneling to the deposit "seen" by the anomalous gravity measurement.

Aeromagnetic maps: Similar to the variations of gravity over Earth's surface, there are local departures from the normal magnetic field of Earth. These are caused by the magnetic properties of minerals in the rocks. Departures can be interpreted as caused by rocks at and below the surface and hence can lead to exploitation. Magnetic anomaly maps are another tool to "see" below the surface or delimit areas for ground observations in remote, relatively pure places of Earth.

Tectonic maps: Similar to geological maps but stress the major structural features produced by uplift, downwarp, or faulting of Earth's crust. They show the structure of Earth's crust as a result of deformation. Tectonic maps may show the ages of mountain building episodes.

Geomorphic maps: Very few of these are produced in the U.S. They display a geneticalchronological classification of land forms which makes it possible to separate active from inactive forms (a simple example would be landslides or sand dunes). In a way, they add a time dimension to land use maps. Most useful to planners and economists. In California, these maps may be called "geological hazards" maps and usually stress areas prone to landslides or areas near active faults.

Several years ago, Miss Eleanor Wilkins, Librarian of the U.S. Geological Survey Library in Menlo Park, devised a system of notation and cataloging of maps which made it possible to blend the map collection with the book collection. The classification scheme utilizes the geographic subdivisions of the book collection; for example, 200 in parentheses stands for the U.S. as a whole. Therefore, a geologic map of the U.S. would be classed in M(200)2 - the 'M' stands for maps; the '2' is an abbreviated form of 200 (not in parentheses) for geology. Cutting is done in the usual way.

LC form is used for entries and subject headings. Boggs and Lewis* is our cataloging guide. The map cataloging work sheet and classification scheme were published in Special Libraries, v.54, no.4 (April 1963).

Patrons may locate maps by using one or more of the following aids: 1. Geologic or topographic index map, 2. Card catalog and serials records (for those maps in series), 3. U.S.G.S. lists of open file releases, 4. U.S.G.S. lists of publications, as well as lists from states and foreign countries, and 5. bibliographies in the field of geology, both foreign and domestic.

Acquisitions tools consist largely of dealers catalogs and the bibliographies and lists cited above.


GEOLOGICAL SURVEYS OF THE WORLD **
NORTH AMERICA

Canada
Geological Survey of Canada
Department of Energy, Mines and Resources
601 Booth Street
Ottawa 4, Canada

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


** Compiled by U.S.G.S., Branch of Foreign Geology.
NORTH AMERICA (con't)

Greenland
Grønlands Geologiske Undersøgelse
Østervoldgade
København K, Denmark

United States
U.S. Geological Survey
Washington, D.C. 20242

CARIBBEAN ISLANDS

Cuba
Instituto Nacional de Investigaciones Científicas, Cerro 827
Havana

Jamaica
Geological Survey Department
Hope Gardens
Kingston 6

Dominican Republic
Servicio de Minería
Ministerio de Industria y Comercio
Santo Domingo

Martinique
Arrondissement Mineralogique de la Guyane
Boîte Postale 458
Fort-de-France

Guadeloupe & Dependencies
Arrondissement Mineralogique de la Guyane
Boîte Postale 448
Pointe-a-Pitre
Guadeloupe

Puerto Rico
Economic Development Administration
Industrial Research
Mineralogy and Geology Sec.
Box 38, Roosevelt Station
Hato Rey

Haiti
Geological Survey
Department of Agriculture, Service Geologique
Damiens près Port-au-Prince

Trinidad and Tobago
Ministry of Petroleum and Mines
P.O. Box 96
Port-of-Spain
Trinidad and Tobago

CENTRAL AMERICA

Costa Rica
Geological Survey of Costa Rica
Geologic Dept., University of Costa Rica, San Pedro de Montes de Oca
San Jose

Honduras
Departamento de Minas
Dirección General de Recursos Naturales
Comayagua, D.C.

El Salvador
Centro de Estudios e Investigaciones Geotecnicas
Ministry of Public Works
Apartado Postal 109
San Salvador

Nicaragua
Servicio Geologico Nacional
Ministerio de Economía
Apartado Postal No. 1347
Managua, D.N.
CENTRAL AMERICA (con't)

Guatemala
Seccion de Geologia
Direccion General de Mineria e Hidrocarburos
108, Calle 11-46, Zona 1
Guatemala City

Panama
Departamento de Recursos Minerales
Apartado Postal 1631
Panama City

Seccion de Geologia
Direccion General de Cartografia
Avenida Los Americas 5-76, Zona 13
Guatemala City

SOUTH AMERICA

Argentina
Instituto Nacional de Geologia y Mineria
Avada Julio A., Roca 651
Buenos Aires

Colombia
Servicio Geologico Nacional
Apartado Nacional 2504
Bogota

Bolivia
Ministerio de Minas y Petroleo
Servicio Geologico de Bolivia
Avenida 16 de Julio No. 1769
Casilla Cerreo 2729
La Paz

Ecuador
Servicio Nacional de Geologia y Mineria
Casilla 23-A
Quito

Brazil
Departamento Nacional da Producao Mineral
Avenida Pasteur 404
Rio de Janeiro

French Guiana
Bureau des Recherches Geologiques et Minieres
B.P. 42
Cayenne

Chile
Instituto de Investigaciones Geologicas
Agustinas 785, 5o Piso
Casilla 10465
Santiago

Guyana
Geological Survey Department
P.O. Box 789
Brickdam, Georgetown

Paraguay
Direccion de la Produccion Mineral
Tucari 271
Asuncion

Surinam
Geologisch Mijnbouwkundige Dienst
Dept van Opbouw
Klein Wasserstraat 1
Paramaribo
SOUTH AMERICA (con't)

Peru
Servicio de Geologia y
Mineria
Apartado 889
Lima

Venezuela
Ministerio de Minas e
Hidrocarburos
Direccion de Geologia
Tarre Norte, Piso 19
Caracas

EUROPE

Austria
Geologische Bundesanstalt
Rasumofskygasse 23
Vienna 111/40

Belgium
Service Geologique de Belgique
13 Rue Jenner, Parc Leopold
Brussels 4

Bulgaria
Direction des Mines
Ministere des Mines et des
Richesses du Sous-sol
Sofia

Czechoslovakia
Ustredni Ustav Geologicky
Nalostranske Nam. 19
Prague 1

Denmark
Danmarks Geologiske Undersogelse
Roadhusvej 36
Charlottenlund

Finland
Geologinen Tutkimuslaitos
Otaniemi
Near Helsinki

France
Bureau des Recherches Geologiques et Minieres (BRGM)
17 Rue de la Federation
Paris XV

Centre Scientifique et
Technique
BRGM
B.P. 818, 45 Orleans
La Source

Germany
Bundesanstalt fur Bodenforschung
Alfred-Bentz-Haus
Postfach 54, Buchholz
Nannover 3

Great Britain
Institute of Geological
Sciences
Exhibition Road, South
Kensington
London, S.W. 7

Greece
Institute of Geology and
Subsurface Research
Ministry of Industry
6, Amerikis Str.
Athens (134)
EUROPE (con't)

Hungary
Magyar Allami
Foltani Intezet
Nepstadion-ut 14
Budapest XIV

Iceland
Department of Geology
and Geography
Museum of Natural History
P.O. Box 532
Reykjavik

Ireland
Geological Survey of Ireland
14 Hume Street
Dublin 2, Eire

Italy
Servizio Geologico D'Italia
Largo S. Susanna N. 13 -00187
Roma

Liechtenstein
Geological Survey of
Liechtenstein
Vaduz

Luxembourg
Service Geologique
Direction des Ponts et Chaus-
sees
13 Rue J.P. Koenig
Luxembourg

Netherlands
Geologische Stichting
Sparnae 17
Haarlem

Norway
Norges Geologiske Undersok-
eelse
P.B. 3006 Ostmarkneset
Trondheim

Portugal
Servicos Geologicos de
Portugal
Rue da Academia das Ciencias
19-20
Lisboa 2

Romania
Comitetul de Stat al
Geologicii
Calea Grivitei 64
Bucuresti 12

Spain
Instituto Geologico y Minero
de Espana
Rios Rosas 23
Madrid 3

Sweden
Sveriges Geologiska Under-
sokning Frescati
Stockholm 50

Switzerland
Schweizerische Geologische
Kommission
Bernoullianum
CH 4000 Basle

Union of Soviet Socialist Repub-
lies
Ministry of Geology and Con-
servation of Mineral Re-
sources
B. Gruzinskaya, 4/6
Moscow

Yugoslavia
Institute de Geologie de
l'Academie
Serbe des Sciences
Belgrade

Poland
Instytut Geologiczny
ul. Rakowiecka 4
Warsaw
AFRICA

Algeria  
Direction des Mines et  
de la Geologie  
Service Geologique  
Immeuble Mauretanía - Agha  
Algiers

Angola  
Servicio de Geologia y Minas  
Caixa Postal No. 1260-C  
Luanda

Botswana  
Geological Survey  
P.O. Box 94  
lobatsi

Burundi, Republic of  
Ministere des Affaires  
Economiques et Fianancierer  
Dept. de Geologie et Mines  
Boite Postale 745  
Bujumbura

Cameroon  
Ministere des Transports des  
Mines des Postes et Tele-  
communications  
Direction des Mines et de  
la Geologie  
Boite Postale 70  
Taounde

Chad Republic  
La Service des Mines et de la  
Republique des Tchad  
Service des Travaux Publics  
Fort Lamy

Congo  
Service des Mines et  
de la Geologie  
Boite Postale 12  
Brazzaville

Congo, Republic of  
Service Geologique National  
de la Republique du Congo  
Boite Postale 898  
Kinshasa

Dahomey  
Service of Mines and Geology  
Ministry of Public Works,  
Transport & Telecommunications  
Box 249  
Cotonou

Egypt  
Geological Survey and Mineral  
Dept.  
Dawawin Post Office  
Cairo

Ethiopia  
Imperial Ethiopian Government  
Ministry of Mines  
P.O. Box 486  
Addis Ababa

French Somaliland  
Service des Travaux Publics  
du Territoire Francais des  
Afars et des Issas  
Djibouti

Gabon  
Direction des Mines  
B.P. 576  
Libreville

Ghana  
Ghana Geological Survey  
P.O. Box M 80  
Accra

Guinea  
Service des Mines et de la  
Geologie  
Conakry
AFRICA (con't)

Ivory Coast
Service Geologique
Bolte Postal 1368
Abidjan

Kenya
Ministry of Natural Resources
Mines and Geological Dept.
P.O. Box
Nairobi

Liberia
Liberia Geological Survey
Bureau of Natural Resources
and Surveys
P.O. Box 9024
Monrovia

Libya
Geologic Division
Ministry of Industry
Tripoli

Malagasy, Republic of
Ministere de L'Industrie et
des Mines
Direction des Mines et de
l'Energie
Service Geologique
B.P. 280
Tananarive

Malawi
Geological Survey Dept.
P.O. Box 27
Zomba.

Mali
Ministere des Travaux Publics
des Telecommunications, de
l'Habitat et des Resources
Energetiques
Bamako

Mauritania
Direction des Mines et de
la Geologie
Nouakchott

Morocco
Division de la Geologie
Direction des Mines et la
Geologie
Rabat (Challah)

Mozambique
Servicos de Geologia e Minas
Caixa Postal 217
Lourenco Marques

Niger
Service des Mines et la
Geologie
Ministere des Travaux Publics
Niamey

Nigeria
Ministry of Mines and Power
Geological Survey Division
P.M.B. 2007
Kaduna South

Reunion
Service des Travaux Publics
St. Denis

Rwanda
Service Geologique
B.P. 15
Ruhengeri

Senegal
Direction des Mines et de la
Geologie
B.P. 1238
Dakar

Sierra Leone
Geological Survey Division
Freetown

Somali
Geological Survey Dept.
Box 41
Hargeisa

South Africa, Republic of
Geological Survey
P.B. 112
Pretoria
AFRICA (con't)

Rhodesia (Omit Southern)
Ministry of Mines and Lands
Geological Survey Office
Causeway P.O. Box 2168
Windhoek

Spanish Sahara
Direccion General de Plazas y Provincias Africanas
Servicio Minero y Geologico
Castellana No. 5
Madrid 1

Sudan
Geological Survey Dept.
Ministry of Mining and Industry
P.O. Box 410
Khartoum

Swaziland
Geological Survey and Mines
P.O. Box 9
Mbabane

Tanzania
Ministry of Commerce and Industries
Mineral Resources Division
P.O. Box 903
Dodoma

Togo, Republic of
Ministere des Travaux Publics
Mines, Transports, des Postes et Telecommunications
Direction des Mines et de la Geologie
B.P. 356
Lome

Tunisia
Geological Survey of Tunisia
95, Avenue Mohamed V
Tunis

Uganda
Geological Survey and Mines Dept.
P.O. Box 9
Entebbe

Upper Volta
Direction de la Geologie et des Mines
Ouagadougou

Zambia
Ministry of Labour and Mines
Geological Survey Dept.
P.O. Box R W 135
Ridgeway, Lusaka

MIDDLE EAST

Cyprus
Geological Survey Dept.
3, Electra Street
P.O. Box 809
Nicosia

Egypt
Geological Survey
Abbasiya Post Office
Cairo, U.A.R.

Iran
Iranian Geological Survey
P.O. Box 1964
Teheran

Iraq
Geological Survey Dept.
Directorate of Minerals
Ministry of Oil
Baghdad

Israel
Geological Survey of Israel
30, Halkhei Israel St.
Jerusalem

Jordan
Natural Resources Authority
Mines and Geological Survey Dept.
Amman (Box 2220)
MIDDLE EAST (con't)

Kuwait
Kuwait Oil Affairs Dept.
Ahmadi 94

Lebanon
Direction Generale des Travaux Publics
Beirut

Saudi Arabia
Ministry of Petroleum and Mineral Resources
Directorate General of Mineral Resources
P.O. Box 345
Jiddah

Syria
Dept. of Geological Research and Mineral Prospecting
Jisr al Abiad
Damascus

ASIA

Afghanistan
Ministry of Mines and Industry
Mines and Geological Survey Dept.
Kabul

Borneo
Geological Survey Dept.
Borneo Region, Malaysia
Kuching, Sarawak

Brunei
The Government Geologist
Brunei Town

Burma
Geological Dept.
226 Mahabandoola Street
Box 843
Rangoon

Turkey
Maden Tetkik ve Arama Enstitusu (MTA)
Posta Kutusu 116
Ankara

United Arab Republic
Dept. of Mines and Fuel
19 Badrawi Ashour St.
Dokki, Cairo

Yemen
Office of Mineral Resources
Ministry of Public Works
Sana

Cambodia
Service des Mines
Phnom-Penh

Ceylon
Geological Survey Dept.,
48, Sri Jinaratana Road
Colombo 2

China
Chinese Ministry of Geology
Peking

India
Geological Survey of India
29 Jawaharlal Nehru Road
Calcutta 16

Indonesia
Geological Survey of Indonesia
Djalan Diponegoro 57
Bandung
## ASIA (con't)

<table>
<thead>
<tr>
<th>Country</th>
<th>Address/Contact Details</th>
</tr>
</thead>
</table>
| Japan            | Geological Survey of Japan  
135 Hisamoto-cho  
Kawasaki, Kanagawa |
| Korea            | Geological Survey of Korea  
125 Namyoung-dong  
Seoul, Korea       |
| Laos             | Dept. of Mines  
Ministere du Plan  
B.P. 46  
Vientiane         |
| Malaysia (West)  | Geological Survey  
Scrivenor Road  
P.O. Box 1015  
Ipoh               |
| Nepal            | Ministry of Industry and Commerce  
Nepal Geological Survey  
Lainchaur, Kathmandu |
| Pakistan         | Geological Survey of Pakistan  
P.O. Box 15  
Quetta            |
| Phillipines      | Dept. of Agriculture and Natural Resources  
Bureau of Mines  
P.O. Box No. 1595  
Manila            |
| Taiwan           | Geological Survey of Taiwan  
P.O. Box 31  
Taipei            |
| Thailand         | Royal Dept. of Mineral Resources  
Rama VI Road  
Bangkok           |
| Vietnam, Republic of | Direction Generale des Mines de l'Industrie et de l'Artisanat  
Service Geologique  
59, Rue Gia-Long  
Saigon            |

## AUSTRALIA AND PACIFIC ISLANDS

<table>
<thead>
<tr>
<th>Country</th>
<th>Address/Contact Details</th>
</tr>
</thead>
</table>
| Australia        | Bureau of Mineral Resources, Geology, and Geophysics  
London Circuit  
P.O. Box 378  
Canberra City, A.C.T. |
| Borneo           | Geological Survey, Borneo Region (East Malaysia)  
Kuching, Sarawak |
| British Solomon Islands | Geological Survey Dept.  
P.O. Box G-24  
Honiara, Guadalcanal |
| Fiji             | Director of Geological Survey  
P.M.B., G.P.O.  
Suva              |
| New Caledonia    | Service des Mines  
Noumea             |
| New Hebrides     | New Hebrides Condominium  
Geological Survey  
British Residency  
Vila               |
New South Wales  
Dept. of Mines  
11 Loftus Street  
Sydney, N.S.W.  

New Zealand  
Dept. of Scientific and Industrial Research  
New Zealand Geological Survey  
P.O. Box 30368 - Andrews Ave.  
Lower Hutt, Wellington  

UNITED STATES STATE GEOLOGICAL AGENCIES

<table>
<thead>
<tr>
<th>Agency</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geological Survey of Alabama</td>
<td>P.O. Drawer 0, University of Alabama 35486</td>
<td>(205) 759-5721</td>
</tr>
<tr>
<td>State Division of Mines and Geology</td>
<td>Box 5-300, College, Alaska 99701 (907) 856-6351</td>
<td></td>
</tr>
<tr>
<td>Arizona Bureau of Mines</td>
<td>University of Arizona, Tucson, Arizona 85721 (602) 884-2733</td>
<td></td>
</tr>
<tr>
<td>Arkansas Geological Commission</td>
<td>446 State Capitol, Little Rock, Arkansas 72201 (501) 395-4646</td>
<td></td>
</tr>
<tr>
<td>Division of Mines and Geology</td>
<td>California Dept. of Conservation, Ferry Building, San Francisco, California 94111 (415) 557-1458</td>
<td></td>
</tr>
<tr>
<td>Mining Industrial Development Board</td>
<td>204 State Office Building, Denver, Colorado 80202</td>
<td></td>
</tr>
<tr>
<td>Connecticut Geological and Natural History Survey</td>
<td>Box 128, Wesleyan Station, Middletown, Conn. 06457 (203) 346-0788</td>
<td></td>
</tr>
<tr>
<td>Delaware Geological Survey</td>
<td>University of Delaware, Newark, Delaware 19711 (302) 368-0611</td>
<td></td>
</tr>
<tr>
<td>Division of Geology</td>
<td>Florida Board of Conservation, P.O. Box 631, Tallahassee, Florida 32302 (904) 224-7141</td>
<td></td>
</tr>
<tr>
<td>Dept. of Mines, Mining, and Geology</td>
<td>19 Hunter Street, S.W., Atlanta, Ga. 30334 (404) 522-7076</td>
<td></td>
</tr>
<tr>
<td>Division of Water and Land Development</td>
<td>Dept. of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809 (808) 50511</td>
<td></td>
</tr>
<tr>
<td>Idaho Bureau of Mines and Geology</td>
<td>Moscow, Idaho 83843 (208) 882-3732</td>
<td></td>
</tr>
<tr>
<td>Illinois State Geological Survey</td>
<td>121 Natural Resources Building, Urbana, Illinois 61801 (217) 344-1481</td>
<td></td>
</tr>
<tr>
<td>Dept. of Natural Resources Geological Survey</td>
<td>611 N. Walnut Grove, Bloomington, Indiana 47401 (812) 337-5582</td>
<td></td>
</tr>
</tbody>
</table>
Iowa Geological Survey
Geological Survey Building
16 West Jefferson St.
Iowa City, Iowa 52240
(319) 335-1173

State Geological Survey of Kansas
The University of Kansas
Lawrence, Kansas 66044
(913) 864-3101

Kentucky Geological Survey
University of Kentucky
307 Mineral Industries Building
Lexington, Kentucky 40506
(606) 253-9000

Louisiana Geological Survey
Box G, University Station
Baton Rouge, Louisiana 70803
(504) 348-2201

Maine Geological Survey
State Office Building, Rm 211
Augusta, Maine 04330
(207) 623-4511

Maryland Geological Survey
214 Latrobe Hall, John
Hopkins University
Baltimore, Maryland 21218
(301) 235-0771

Michigan Dept. of Conservation
Geological Survey Division
Stevens T. Mason Building
Lansing, Michigan 48926
(517) 373-1256

Minnesota Geological Survey
University of Minnesota
Minneapolis, Minnesota 55455
(612) 373-3372

Mississippi Geological, Economic & Topographical Survey
P.O. Box 4915
Jackson, Miss. 39216
(601) 362-1056

Division of Geological Survey and Water Resources
P.O. Box 250
Rolla, Missouri 65401
(314) 364-1752

Montana Bureau of Mines and Geology
Montana College of Mineral Science and Technology
Butte, Montana 59701
(406) 792-8321

Conservation and Survey Division
University of Nebraska
113 Nebraska Hall
Lincoln, Nebraska 68508
(402) 477-8711

Nevada Bureau of Mines
University of Nevada
Reno, Nevada 89507
(702) 323-2081

Dept. of Resources and Economic Development
Geologic Branch, Dept. of Geology
James Hall, University of New Hampshire
Durham, New Hampshire 03822
(603) 868-5511

New Jersey Bureau of Geology and Topography
John Fitch Plaza, Room 709
P.O. Box 1889
Trenton, New Jersey 08625
(609) 292-2576

New Mexico Bureau of Mines and Mineral Resources
Campus Station
Socorro, New Mexico 87801
(505) 635-5272

New York State Museum and Science Service
Geological Survey
New York State Education Bldg., Room 973
Albany, New York 12224
(518) 474-5816
Division of Mineral Resources
Dept. of Conservation and Development
P.O. Box 2719
Raleigh, North Carolina 27602
(919) 829-3833

North Dakota Geological Survey
University Station
Grand Forks, North Dakota 58202
(701) 777-2231

Ohio Division of Geological Survey
1207 Grandview Avenue
Columbus, Ohio 43212
(614) 469-5344

Oklahoma Geological Survey
The University of Oklahoma
Norman, Oklahoma 73069
(405) 325-0900

State Dept. of Geology and Mineral Industries
1069 State Office Building
1400 S.W. Fifth Avenue
Portland, Oregon 97201
(503) 226-2161

Bureau of Topographic and Geologic Survey
Dept. of Internal Affairs
Harrisburg, Penna. 17120
(717) 787-2169

Division of Geology
P.O. Box 927
Columbia, South Carolina 29202
(803) 758-3257

South Dakota State Geological Survey
Science Center, University of South Dakota
Vermillion, South Dakota 57069
(605) 624-4471

Dept. of Conservation
Division of Geology
G-5 State Office Building
Nashville, Tennessee 37219
(615) 741-2726

Bureau of Economic Geology
The University of Texas
University Station, Box X
Austin, Texas 78712
(512) 471-1534

Utah Geological and Mineralogical Survey
103 Utah Geological Survey Building
University of Utah
Salt Lake City, Utah 84112
(801) 581-6831

Vermont Geological Survey
University of Vermont
Burlington, Vermont 05401
(802) 864-4511

Virginia Division of Mineral Resources
P.O. Box 3667
Charlottesville, Virginia 22903
(703) 293-5121

Washington Division of Mines and Geology
335 General Administration Building
Olympia, Washington 98501
(206) 753-6163

West Virginia Geological and Economic Survey
P.O. Box 879
Morgantown, West Virginia 26505
(304) 296-4461
Resume of: "Arrangement and Organization of Geologic Maps in the Library" by Beatrice Lukens, Head, Earth Sciences Library, University of California, Berkeley.

The arrangement and organization of maps in the Earth Sciences Library at UC Berkeley is based on what seemed expedient in response to user requests. Material had to be readily available, so users could help themselves and the collection would not require excessive upkeep. The aim was to give the most service with the least effort.

Considering user approach, the maps were separated by the type of map. Topographic maps were arranged alphabetically, first by state and then by quadrangle name. Topographic maps of California are most heavily used. Since users would be looking at 15 minute quads or 7.5 minute quads at any one time, topographic sheets for California were divided into two sections, 7.5 minute and 15 minute with 30 and 60 minute, each section arranged alphabetically by quadrangle name. A separate alphabetical file is maintained for 1:250,000 topographic sheets of the United States. A shelf list form card is used to make a record of holdings.

Arizona
Mesa 1969

Publisher: U.S. Geological Survey

Scale: 1:24,000
Extent: 7.5 min.
Contour interval: 100 feet
Users may find the name of a desired quadrangle by consulting the U.S.G.S. Indexes to topographic maps of the various states.

The series issued by the U.S. Geological Survey, GQ, HA, MI, etc., are received folded and are filed by symbol as assigned by the U.S.G.S. and then numerically. The holdings record is kept on a numbered serials record card. Access to the contents of these series is through the Publications of the Geological Survey, 1879-1961 published by the U.S.G.S. with its supplements and George H. Albertson's Geological index to the publications of United States Geological Survey and Hayden, King, Powell, and Wheeler Surveys.

The third group of maps are geologic maps issued as individual sheets or issued as sets which are meant to be used together as flat sheets or mounted to make a wall map. This group has been classified by country or state. A shelf list card has been made which is filed by area and an index file has been made to areas.

15,A6 Arizona  
Ge  
1969  

1 sheet 66.5 x 44.5 in.

Scale: 1:500,000.  
Contour interval: 500 feet.  
Datum is mean sea level.  
Lists "Sources of data" and "References cited".

Sample of shelf list card for geologic maps classified by area.
If an issuing agency has sent its maps folded and in envelopes, they have been kept that way for ease in finding and filing. The Geologic map of California, issued by the California Division of Mines, is kept both as sheets and as an atlas. Whenever a map and text would be used together, they have been kept together and cataloged for the book collection. Some maps which had previously been removed from publications were returned to them. Users expect to find maps with the texts.

The classification scheme used to assign numbers for areas is the one used in the UC Berkeley Map Room, but subject notation has not been followed. Since subject subdivisions were limited, it seemed easier for the user if letter symbols such as "Fa" for fault, "Ge" for geology, "To" for topography, "Mi" for minerals were used.

Panel II: Nautical Charts

Bibliography cited from: "Nautical Charts in the Map Library" by Carlos Hagen, Head, UCLA Map Library.

Title: International Hydrographic Bureau. Yearbook
Place published: Avenue President - J.F. Kennedy Monte Carlo Principante de Monaco

Contains a listing of hydrographic offices and nautical chart producers throughout the world.
Bibliography from: "Oceanographic Surveys of the Scripps Institution of Oceanography" by Barry Gardner-Smith, Map Librarian, Scripps Institution of Oceanography.


Bibliography from: "Historical Nautical Charts" by Ruthanne Lowe, Library Assistant, UCLA Map Library

Some of the books listed, although general in nature, contain chapters or sections on the history of nautical charts. In addition, several of them (Brown, Robinson, Tooley, Bowditch) contain good bibliographies.


U.S. Coast and Geodetic Survey. "The United States Coast and Geodetic Survey Products and Functions". Washington, D.C.


The following periodicals frequently contain articles and book reviews pertaining to the history of navigation and chart making:

The American Neptune (Salem)
The International Hydrographic Review (Monaco)
The Journal of the Institute of Navigation (London)
The Nautical Magazine (Glasgow)
Navigation, Revue Technique de Navigation Maritime et Aerienne (Paris)
United States Naval Institute Proceedings (Annapolis)
James McNeill Whistler worked for the Engraving Section of the Coast and Geodetic Survey from November 1854 until February 1855. Facsimiles of one of the two charts he produced ("Anacapa Island, California, 1854," no. 414A) as well as "Sketches by Whistler, November 1854", no. 414B may be obtained free of charge by writing to:

Map Services Branch
Coast and Geodetic Survey
Washington Science Center
Rockville, Maryland  20852

Another publication about Whistler entitled "Three Short Happy Months" (The story of Whistler, the artist, complete with his sketches), may also be obtained free from the above.

Panel III: Free and Inexpensive Maps

Resume of: "California State Agency Maps" by Ruth Elwonger, Librarian, California State Library.

California State documents consist mainly of: 1. statistics and 2. maps! Innumerable maps appear incidentally as part of the text of State publications because maps are a very good means of presenting information in concise form.

In many additional State documents, maps are the most significant part of the publication, even though the publication is housed apart from the map collection. Examples would be:

- Department of Parks and Recreations' series of brochures on State parks, which include maps of trails and roads within park boundaries;
- Department of Fish and Game's series, Angler's Guides;
- Volume 2 of the San Francisco Bay Plan by the San Francisco Bay Conservation and Development Commission, which consists of 19 fold-in maps of the San Francisco Bay;
- The numerous publications of the Departments of Water Resources and the Division of Mines and Geology.

It is most important for the map librarian, therefore, to know a great deal about the availability of maps in the State's publications.

The State produces a large number of extremely technical maps which are often available for consultation in the issuing office, as prints, or by purchase. Examples are:

- County Road System maps of the Division of Highways;
Soil-Vegetation Maps of the Division of Forestry
Original mapping done by the design offices of the Departments of Water Resources and the Division of Highways, based on aerial photographs.

Whether your interest is in a geographic area, such as a county, or in a subject field, there is a wealth of map material produced by State agencies. Two publications which will help in finding sources of technical and specialized maps are:

- **Introduction to State Information Sources** (a pamphlet available from the Government Publications Section, California State Library);
- **California State Telephone Directory** (includes the most up-to-date and detailed organization chart of State government. Issued biennially and sold by Documents and Publications, P.O. Box 20191, Sacramento 95820) $1.50 plus tax.

Bibliography from: "California State Agency Maps" by Ruth Elwonger, Librarian, California State Library

California Dept. of Fish and Game
1416 Ninth Street, Sacramento 95814

Angler's Guides:

- Mineral King Area (Tulare County)
- Bear Creek (Fresno County)
- Crown Valley Area (Fresno Area)
- Emigrant Basin Area (Tuolumne County)
- Lake Tahoe (Placer and El Dorado Counties)
- French Canyon and Humphreys Basin (Fresno County)
- Mono Creek Area (Fresno County)
- Granite Creek Area (Madera County)
- Trinity Alps Area (Siskiyou and Trinity Counties)
- Trinity Divide Area (Trinity, Siskiyou, and Shasta Counties)
- Marble Mountains Area (Siskiyou County)
- Salmon and Scott Mountains (Siskiyou and Trinity Counties)
- Striped Bass Fishing Map (S.F. Bay and Delta)
- Salmon and Steelhead Fishing Map
- Upper Bishop Creek Drainage Area (Inyo County)
- Klamath River (Del Norte, Humboldt, and Siskiyou Counties)

Order from: Documents & Publications
P.O. Box 20191
Sacramento 95820
Each guide, 1-5 copies, 35 cents plus sales tax;
6-9 copies, 30 copies plus sales tax;
10 or more copies, 10 cents plus sales tax.

Provide detailed information on trout fishing in specific
out-of-the-way places in California mountains and on
special fisheries.

Ocean Fishing Maps:

Del Norte, Humboldt, and Mendocino Counties
Sonoma and Marin Counties
San Francisco, San Mateo, and Santa Cruz Counties and the
Elkhorn Slough Area, Monterey County
Monterey and San Luis Obispo Counties

California Division of Forestry
1416 Ninth Street, Rm. 1550, Sacramento 95814

Ranger Unit Maps

$1.00 each including tax

Amador, 1960
Butte, Rev. 1965
Calaveras (Contains parts of Stanislaus, San Joaquin,
and Sacramento Counties), 1959
Colusa, 1947
Del Norte, 1953
El Dorado, Western, Rev. 1963
Fresno, Eastern, 1954
Fresno, Western, 1954, Rev. 1964
Glenn, Rev. 1967
Humboldt, Northern, Rev. 1950
Humboldt, Southern, 1949
Kings, 1961
Lake, Southern, 1956
Lassen, Northern, Rev. 1963
Lassen, Southern, Rev. 1963
Madera, Western, 1952
Mariposa, Western, 1962
Mendocino, Northern, Rev. 1950
Mendocino, Southern Rev. 1950
Merced, Western, 1955
Monterey, Northern - San Benito (one map), Rev. 1967
Monterey, Southeastern, Rev. 1967
Monterey, Southwestern, Rev. 1967
Napa-Solano-Yolo, 1963
Orange, 1952
Placer-Nevada-Yuba, Western portions (one map), 1959
Riverside, Central, Rev. 1962
Riverside, Western, Rev. 1962
San Bernardino, Southwestern, 1956
San Diego, Rev. 1962
San Luis Obispo, Rev. 1967
San Mateo, 1964
Santa Barbara
Santa Clara - Mt. Hamilton Unit, Rev. 1954
Santa Cruz Mountains, Rev. 1961
Shasta, Eastern, Rev. 1963
Shasta, Western - Trinity, Eastern (one map), Rev. 1962
Siskiyou, Eastern, 1955
Siskiyou, Western, Rev. 1966
Sonoma, Rev. 1963
Tehama, Rev. 1967
Tulare, Rev. 1965
Tuolumne, 1949

Scale 3/8" - 1 mile. Are used for fire fighting but are very popular maps showing road and jeep trails, rivers, streams, township and range lines, etc.

The following maps are also available:

Alderpoint-Covel0 (Contains parts of Humboldt, Mendocino, Trinity, Tehama, and Glenn Counties) - 1954, 3/8" - 1 mile, - $1.00

Jackson State Forest (Mendocino County) - 1964, 1" - 1 mile, - $1.00

Jackson State Forest Topographic - 1964, 1" - 1 mile, - $1.00

State Forestry Facility Map - Rev. 1963 - $2.00

State Fire Protection Map by Agency - Rev. 1966 Colored - $2.00

Lassen-Modoc Ranger Unit, Modoc County - 1967 - $1.00

Soil-Vegetation Maps
Approximately 350 maps
45 cents each; legend 10 cents. Sold by U.S. Forest Service, 630 Sansome St., San Francisco 94111

Timber Stand Maps
Approximately 500 maps...
Upland Soils of Lake County  $1.00 each, colored and uncolored. Sold by Documents & Publications, P.O. Box 20191, Sacramento 95820

Upland Soils of Mendocino County

Upland Soils of Glenn County

Index key and list, and detailed information as to prices of the above maps appear on pp. 22-31 of Soil-Vegetation Surveys in California, published by the California Division of Forestry. Or, maps may be ordered by name of quadrangle.

California Dept. of Harbors and Watercraft
1416 Ninth St., Rm. 1336, Sacramento 95814

Boating Facilities Guide, Southern Area  Free
Guides for Northern and Central Areas are out of print.

California Division of Highways
c/o Chief Engineer
P.O. Box 1499, Sacramento 95807

County Road System Maps  40 cents per sheet plus tax
4" - 1 mile and 8" - 1 mile; 18" X 18"
1100 sheets which emphasize the rural portions of the State.
Show road and highway numbers, important physical features,
water courses, place names, railroads, dams, jurisdictional
boundaries, and section lines.

County Composite Maps
Composites of the County Road System Maps.
Vary in size according to size of County.
For ordering information, write for Index Map and Tabulation.

County Outline Map
Shows county seats only. In ozalid, blue-line and available
in sizes ranging from 8" X 11" to 8' X 3'. Almost any desired
overlay in any combination can be produced showing rivers,
cities, freeways, urbanized areas, etc.

Projected Boundaries 1985 Urban Areas  7½ cents per sq. ft.

Sacramento Metropolitan Area Map  7½ cents per sq. ft.
Map by the Sacramento City Planning Commission is sold with
overlays of freeways and State Highways.
California Freeway and Expressway System, Planning and Construction Progress, Jan. 1969, (annual)

California State Highway Map (annual) 25 cents plus tax

California Aerial Photographic Coverage (annual) 1968 edition consists of 18 maps and an index key. Free to public agencies $10.00 to private companies or individuals

California Division of Mines and Geology
Ferry Building
San Francisco 94111

County Maps
First appeared in the Reports of the State Mineralogist, the California Journal of Mines and Geology, and in the new County Report series.

Map Sheets
New series, not reprints, to publish information quickly that would normally appear in reprint. $1.00 to $1.50

Geologic Atlas
Consists of 27 sheets, scale 1" - 4 miles $1.50 per map sheet; 50 cents uncolored

Geologic Quadrangles
These are not a separate series but are overruns of maps which originally appeared as part of Bulletins, Special Reports, California Journal of Mines and Geology, and the new Map Sheet Series. 25 cents to $1.00

California Shaded Relief Map
1" - 20 miles $1.50 plus tax

Geologic Map of California
1" - 40 miles; size 16" X 20" Detailed listings and prices will be found in List of Available Publications, July 1969. 25 cents plus tax
California Dept. of Water Resources
1416 Ninth St., Sacramento 95814

California Water Resources Development Free
1:750,000; 5' x 5'

U.S. Geological Survey Maps
Federal-State Cooperative Topographic Mapping Program with the
U.S. Geological Survey administered in California by the
Dept. of Water Resources which determines priorities and
scheduling. Financing may be joint or Federal.

The Dept. of Water Resources publishes Topographic Mapping
in California (Bulletin 79-64 and supplements) which lists
all maps produced in the standard quadrangle format.

HOW TO OBTAIN U.S. GEOLOGICAL SURVEY MAPS
1. Over the counter sales
   Sacramento: Ogden Surveying Equipment Co., 5520 Elvas Ave., 455-4886
   Sacramento: A-1 Map Sales Center, 3271 Folsom Blvd.
   San Francisco: U.S. Geological Survey, Public Inquiries Office, Rm. 504 Custom House, 555 Battery Street

2. Mail orders

California Public Utilities Commission
350 McAllister St., San Francisco 94102

Electric Service Areas, July 1969 $2.50
Electric Generating Stations, Transmission Lines and Interconnecting Systems, Dec. 1967 $2.00
Principal Gas Transmission and Distribution Trunk Lines, July 1961 $1.50
Gas Service Areas, Jan. 1968 $2.00
Telephone Exchange Areas, May 1964 $1.50
Telephone Toll Routes, April 1962 $1.50

Assembly Districts, 1965, 2nd Extraordinary Session 10 cents
Single map in various sizes may be obtained from the Legislative Bill Room, State Capitol, Sacramento 95814.

Detailed maps are out of print except for a few Assembly districts. Senatorial and Congressional district maps are no longer available.

Bibliography from: "Free and Inexpensive Maps for the Public Library" by John Petros, Librarian, San Francisco Public Library.

Private Map Publishing

California State Automobile Association
150 Van Ness Avenue
San Francisco, Calif. 94101

George F. Cram Co., Inc.
301 So. LaSalle St.
Indiana, Indiana

Gulf Tourguide Bureau
Gulf Building
714 Main Street
Houston, Texas 77002

Hagstrom's Maps
311 Broadway
New York, New York 10007

Metsker Maps
111 So. Tenth St.
Tacoma, Washington
or
1222 Third Avenue
Seattle, Washington

SFPL put on mailing list and a set of state, city, section maps published by AAA, CSAA, Auto Club of So. Calif. furnished.

Publishes Cram's Modern Series of pocket maps in folders of uniform size of countries and areas. Priced at 50 cents each.

SFPL sent a complete set of city maps.

Covers the New York area at prices from 50 cents to $1.00.

County maps for Calif., Oregon, Wash., and Idaho showing roads, trails, creeks, rivers, lakes, towns, schools, camps, townships, land grants, airfields. For sportsmen, realtors, timbermen, exploration.
Mobil Oil Corporation
Travel Service
150 East 42nd Street
New York, New York 10017

Their booklet "America's Water-Ways" indicates sources for waterway charts and maps. Four guides published by Mobil Oil to cruising are noted. Also noted are government sources in this area.

Rand McNally and Company
P.O. Box 7600
Chicago, Illinois 60680

Publishes wide variety of folded maps, atlases, and guides. Publisher's Catalog also describes Kummerly and Frey Europe road maps that Rand McNally handles.

Thomas Brothers Maps
550 Jackson St.
San Francisco, Calif. 94113
or
1326 So. Broadway
Los Angeles, Calif. 90015

Publishes a price list giving cities and prices of what they have produced.

Triumph Press
P.O. Box 75445
Sanford Station
Los Angeles, Calif. 90005

Publishers of Kym's Guide, a series of small maps at 35¢ each used for fishing, hunting, hiking camping, showing also trailer parks and resorts. Includes charts of rivers and bays.

Weekend Outdoor Productions
P.O. Box 878
Oakland, Calif. 95604

Shows lakes and other areas in Northern Calif. Small map at 35-70 cents each.

Wilderness Press
2440 Bancroft Way
Berkeley, Calif. 94704

Fishing and hiking maps at prices from 95 cents to $1.50

Wildlife and Recreation Services
P.O. Box 21-4152
Sacramento, Calif. 95821

Fishing and hunting maps basically reproduced from Forest Service maps but with additions. In folders at $1.25 each covering Calif. areas.

Publishers of Foreign Maps

Bartholomew
12 Duncan Street
Edinburgh 9, Scotland

Atlases, touring guides, street maps, mostly of the British Isles. Some historical maps. Of notable interest is a 21 sheet world series of topographical
ESSO Touring Service
Foreign Department
15 West 51st St.
New York 19, New York

Falk-Verlag
Burchardstrasse 8
Hamburg 1, Germany

Kummerly and Frey A.G.
Hallerstrasse 6
Berne, Switzerland

Pneu Michelin
Services de Tourisme
97 B. Pereire
Paris 17

Sources listing a variety of maps and atlases from all sources

Educators Grade Guide to Free Teaching Aids
Educators Progress Service
Randolph, Wisconsin 53956

In the section on visual and audio visual aids lists a selection of maps available from trade association, and U.S. and foreign agencies. Brief listing most useful to the smaller libraries.

Educators Guide to Free Science Materials
Educators Progress Service
Randolph, Wisconsin 53956

Lists under charts, exhibits, posters some special subject maps such as the Astrosolar map, (GE); a daily weather map, (Weather Bureau), Forests and trees of the U.S., (American Forests Products).

Western distributor:
Educational Materials Service
P.O. Box 1921
La Jolla, Calif. 92037

Also includes listing for several useful pamphlets such as "Elementary Map and Compass Instruction" by the Silva, Inc. 702 Ridgeway St., La Porte, Indiana 46350 designed for the elementary level and giving practical suggestions on how to teach map use and compass reading.

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normally maps at "larger scales than are offered in an atlas".

Road maps of foreign countries.
SFPL not on any standing order basis but some isolated maps on file with this address.

Street plans for European cities in handy folders of uniform size.

European, country, and regional maps, road maps, road atlases and continent maps. Mostly priced at $1.95 to $2.95. Available through Rand McNally Map Store.

Road maps. Price is about $1.30 each. A selection available through Rand McNally Map Store.
While the catalogs of this company are so comprehensive they are of most use to larger map libraries, they are worth scanning because they do pick up some inexpensive atlases that may otherwise be missed. The value of reviewing these catalogs is increased because they are annotated so that the contents of the atlas can be determined before buying. For instance, "Depository Page 145 Item 834 Ghana Junior Atlas 1965, 30 11 x 8 pts, gazet. phy, polit and topical maps, city plans, tribal regions, Polit maps of Afr, gives independence dates. $4.80.

**Map Stores in San Francisco**

George E. Butler Company 356 California St. San Francisco, Calif. 94104

Rand McNally Map Store 423 Market St. San Francisco, Calif. 94105

Thomas Brothers Maps 550 Jackson St. San Francisco, Calif. 94133

**San Francisco Sources for Government Maps**

U.S. Forest Service 630 Sansome St. San Francisco, Calif. 94111

U.S. Geological Survey Office 504 Custom House 555 Battery St. San Francisco, Calif.

Marine, Aeronautical charts and atlases.

Business, school, domestic, and foreign travel maps, gov. topographic and aeronautical maps, globes, atlases.

Wall maps, street guides, relief maps, globes, USGA.

Provides free maps of National Forests.

Over the counter sales of topographic maps.
Useful tools to build the collection

Europa Yearbook
2 volumes Europa Pubs., Ltd.
$47.50
Lists under "Tourism" under each country the headquarters of the country's tourist bureau and also the cities in the world in which there are branch offices. Valuable since it lists cities in the United States with a bureau, These will likely have the maps or other data of most interest to smaller U.S. libraries.

U.S. Dept. of State Foreign Consular Offices in the United States
Washington 35 cents
Useful as a source of consulate offices which can provide maps and other tourist information.

List of Chambers of Commerce in the United States
Johnson Publishing Co.
Box 455
Loveland, Colorado $3.00
Useful for building a mailing list for maps and other tourist information on cities and for trying to get material on particular cities to fill gaps in the collection.