

Information Bulletin



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INFORMATION

BULLETIN

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A GUIDE TO MAPS OF THE PACIFIC OCEAN AREA

by

E. H. Bryan, Jr.

The Pacific Ocean area is here defined as bounded on the north by the Aleutian Islands, on the east by the coasts of the Americas, on the south by Antarctica, and on the west by Australia and a great arc of islands lying off the eastern coast of Asia. The island groups which form this arc are, from north to south: The Kuriles, Japan, the Ryukyu Islands, Taiwan (Formosa), the Philippines, Indonesia, and New Guinea. The western border of the Pacific is formed by the eastern shore of these islands; all of them lie outside the Pacific. As thus defined, the Pacific Ocean has an area of nearly 64 million square miles, considerably more than the entire dry land surface of this planet. The Pacific Ocean contains about 170 million cubic miles of water (more than half the earth's volume of free water) and has a calculated average depth of 14,468 feet.

An important fact about the Pacific area is the small amount of land in relation to this great expanse of sea. There are several thousand islands in the Pacific, but their combined area is less than 171,000 square miles, even including New Zealand's 103,740 square miles. If we omit New Zealand and its nearby dependencies, which lie in the southwestern portion of the Pacific, and also the few islands lying close along the shores of the Americas, all the remaining islands of the oceanic Pacific are located between 30° north and south of the equator, virtually within the tropics. Their combined area is less than 70,000 square miles, giving a ratio of about one square mile of land to each 925 square miles of ocean. Later in this guide some notes will be given concerning the areas of the various island groups in the Pacific.

The islands are not scattered uniformly across this tropical portion of the Pacific. If we draw a line diagonally from northern Japan to southern Chile, it will divide the Pacific into two dissimilar parts. The northeastern part has few islands, chiefly the Hawaiian chain, and the depth is moderately uniform. This does not mean, however, that the floor of the ocean is smooth or level. Almost every oceanographic expedition which visits this region discovers and names new ranges of submerged mountains or isolated seamounts. Another interesting feature is that along the Aleutian Islands and near the coast of South America greater depths have been found than far out in this portion of the Pacific. One result of these marginal trenches is the prevalence of earthquakes and volcanic activity in these zones.

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In contrast, the southwestern half of the Pacific has many islands in arcs and archipelagoes, situated on ridges and plateaus, separated by troughs and trenches of great depth.

Islands in different parts of the Pacific are not of uniform age. Those on the Western side are geologically much older than those in the central portion. These two great regions are separated by a definite boundary, known as the Andesite or Sial line. To the east of this line, the islands are regarded as being the summits of "younger" volcanic mountains, most of them only a few million years old, particularly their upper portions. They were built up of flow upon flow of basaltic materials, many from great depth of ocean. Some peaks have been cut off at sea level and capped by limestone reefs, in many cases forming atolls. Islands to the west of the Andesite line contain much older rocks, some with fossils 100 million or more years old. These are found from Fiji to southwestern Asia, and suggest that once there may have been a great southeastward extension of Asia. These ancient rocks contain valuable minerals, such as those found in New Caledonia.

Names for the major divisions of the Pacific--Polynesia, Micronesia and Melanesia--were coined by European geographers to help locate the island groups reported by explorers of the 18th and 19th centuries. At first most of the islands in the Pacific and eastern Indian Oceans were referred to as Polynesia, the "many islands." The French navigator Dumont d'Urville is credited with defining the "little islands" in the northwestern Pacific as Micronesia, and the islands west of Fiji, inhabited by persons with dark skin and kinky hair, as Melanesia. The huge island of New Guinea (with an area twice that of the State of California) is a complex all its own, which might be linked with Australia as "Australasia." The group names Indonesia and Malaysia are becoming associated more with political states than geographic areas. The term Oceania has been applied to such a wide range of regions, even including Australia, that it has very little precise geographical significance.

It is easy to separate Polynesia, Micronesia and Melanesia by means of the equator and the 180th meridian (or international date line, where Sunday becomes Monday going westward). All of the islands in the central Pacific to the east of the 180th meridian are in Polynesia. All of Melanesia is west of the 180th and south of the equator. The bulk of Micronesia is in the northwestern quadrant, with only a few of the Gilbert Islands south of the equator. A few Polynesian islands, such as the Ellice Islands, lie west of the 180th meridian; and also a few "Polynesian outliers," for the most part atolls, lie in northern Melanesia, and two, Nukuoro and Kapingamarangi, in southern Micronesia. New Zealand should not be considered as belonging to any of these three areas, despite the fact that its early Maori inhabitants came there from southeastern Polynesia. It makes up a fourth area of the oceanic Pacific.

Charts of the Pacific as a whole

Navigation was the chief and earliest reason for making maps of the Pacific. Thus, it is natural that the principal source of Pacific maps should be hydrographic agencies of maritime powers. Each produces maps and charts, but in recent years most of them have shared the results of their surveys to such an extent that very similar charts may be had from each. Americans get their charts from the U.S. Naval Oceanographic Office (formerly the U.S. Hydrographic Office, known as H.O.). There are two major outlets, in addition to numerous local agencies: for users west of the Mississippi River, the U.S. Naval Oceanographic Distribution Office, Clearfield, Utah 84016; for those east of the Mississippi the address is 5801 Tabor Ave., Philadelphia, Pa. 19120. The published catalog of charts and publications covering most of the Pacific is that for Region 8, and may be purchased for 25 cents.

The following are the principal charts covering major portions of the Pacific, published by the U.S. Naval Oceanographic Office, other than Pacific portions of world maps, with official number, general region, scale and latest price.

<u>H.O. No.</u>	<u>Region</u>	<u>Scale</u>	<u>Price</u>
1500	A useful chart of the entire Pacific area, without soundings or other hydrography	1:21,912,990	\$.90
527, 528, 529	North Pacific	1:5,990,000 ⁺	2.60 each
823, 824, 825, 826	South Pacific	1:5,990,000 ⁺	2.60 each
5590	Western Pacific, including Philippine Islands and Indonesia	1:7,304,330	2.00
5655	Hawaiian Islands to Samoa	1:3,371,400	2.60
5799	Northwest Pacific	1:6,469,540	2.60
5800	Central Pacific	1:8,433,180	2.60
5801	Southwest Pacific	1:6,624,000	2.60
5829	Southeast Pacific	1:5,645,500	2.60
0068	Bering Sea area	1:3,436,380	2.00
2560	Arctic regions	1° = 1 cm.	1.00
2562	Antarctica	1:11,250,000	2.00
8839	Antarctic Peninsula	1:1,500,000	2.60
6636-6644	Margin of Antarctica (9 charts)	1:1,500,000	2.60 each

Other charts covering large areas will be listed with the regions given below.

Special mention should be made of the U.S. Naval Oceanographic Office Sailing Directions. These are published in three loose-leaf volumes, which with binders sell for \$4.50 each (contents, without binders, \$3.00 each): vol. I (no. 82) Western groups, including Micronesia; vol. II (no. 81) Santa Cruz, New Hebrides and New Caledonia; vol. III. South-central groups, including Fiji and all of Polynesia, except Hawaii (which is published by the U.S. Coast and Geodetic Survey). These volumes are kept up-to-date by correction sheets.

An Arrangement for Pacific Island Groups

The following is a systematic listing of Pacific island groups which the author has used for the filing of maps and aerial photographs.

<u>Group (Sequence in Listing)</u>	<u>Government</u>	<u>Area (Sq. Mi.)</u>
I. POLYNESIA		
A. Hawaii (24 major islands, N.W. to S.E.)	U.S.A.	6,425
B. Easter Island & Sala-y-Gomez (2 islands)	Chile	64
C. Pitcairn group (Ducie, Henderson, Pitcairn, Oeno)	Great Britain	14
D. Gambier Islands (Mangareva) (small compact group)	French Polynesia	10
E. Tuamotu archipelago (75 atolls, E. to W.)	French Polynesia	330
F. Marquesas Islands (13 major islands, N. to S.)	French Polynesia	492
G. Austral Islands & Rapa (9 islands, S.E. to N.W.)	French Polynesia	63
H. Society Islands (14 major islands, E. to W.)	French Polynesia	646
J. Cook Islands (8 "lower", 7 northern, S. to N.)	Independent	93
K. Line Islands (14 low islands, S. to N.)	U.S. & Great Britain	237
L. Phoenix Islands (8 low, clockwise from N.)	U.S. & Great Britain	11
M. Tokelau Islands (3 low, N.W. to S.E.)	New Zealand	4
N. Samoa (W. to E.)		
Western Samoa (4 high)	Independent	1,135
Eastern Samoa (5 high, 2 low, incl. Swains Island)	U.S.A.	76
O. Niue Island (1 raised limestone island)	New Zealand	100
P. Tonga (about 200, S.E. to N.W.)	Kingdom	259
Q. Wallis, Futuna, Alofi (3 high)	France	60
R. Banks west of Samoa, no land		
S. Ellice Islands (9 low, S.E. to N.W.)	Great Britain	11
	Total	<u>10,033</u>
II. MICRONESIA		
A. Gilbert Islands (16 low+Ocean Island, S. to N.)	Great Britain	116
B. Nauru Island (1 raised limestone island)	Independent	8
C. Marshall Islands (33 low, N. to S. in 2 chains)	U.S. Trust Territory	72
D. Caroline Islands (48 groupings, E. to W.)	U.S. Trust Territory	463
E. Mariana Islands (14 high, N. to S.)	U.S. Trust Territory	154
F. Guam (high)	U.S. Territory	<u>209</u>
	Total	1,020

<u>Group</u>	<u>Government</u>	<u>Area (Sq.mi.)</u>
Some other islands in the N.I. Pacific:		
Wake (atoll) (low)	U.S.A.	5
Marcus Island (low)	Japan	1
Iwo (Kazan or Sulphur) (3 high islets)	Japan	11
Bonin Islands (Ogasawara) (several high) (Other islands nearer Japan)	Japan	30
III. MELANESIA		
A. Fiji (by groups, E. to W., & Rotuma)	Great Britain, soon to be independent	7,055
B. New Caledonia (S.E. to N.W. + reefs to the west)	France	6,200
C. Loyalty Islands (3 major, high, S.E. to N.W.)	France	800
D. New Hebrides (S. to N.))	France and Great Britain	5,700
E. Banks Island (S. to N.))		
F. Torres Islands)	Great Britain	11,500
G. Santa Cruz Islands)		
H. Solomon Islands Protectorate)		
I. Mandated Solomon Islands	Australian mandate	4,100
J. Louisiade Archipelago)	Australia	2,750
K. Woodlark Islands)		
L. D'Entrecasteaux Islands)		
M. Trobriand Islands)		
N. Bismarck Archipelago (including Admiralty Islands)	Australian mandate	19,200
	Total	<u>57,385</u>
IV. NEW ZEALAND AND DEPENDENCIES		
New Zealand		103,100
Chatham Islands		372
Kermadec Islands		13
Sub-Antarctic Islands		300
	Total	<u>103,785</u>
Other islands in S. I. Pacific		
Norfolk Island	Australia	13
Lord Howe Island	Australia	5

Maps and Charts of Pacific Island Groups (following Bryan's Arrangement)

I. POLYNESIA

A. Hawaii

Coastal charts of the Hawaiian chain are made by the U.S. Coast and Geodetic Survey, and also made available through the U.S. Naval Oceanographic Office. The following are the principal charts available (about \$1.50 each):

<u>C.&G.S. No.</u>	<u>Region</u>	<u>Scale</u>
4000	Hawaiian Islands to Palmyra Island	1:3,121,170
4102	Main Hawaiian Islands	1:600,000
4181- 4183	The remainder of the chain to about the same scale	
4115	Hawaii Island	1:250,000
4116	Oahu to Maui	1:250,000
4117	Niihau to Oahu	1:247,482
4110	Oahu	1:80,000
4120	Kaiwi Channel	1:80,000
4130	Channels between Molokai, Lanai, Maui and Kahoolawe	1:80,000
4140	West coast of Hawaii Island	

In addition there are numerous charts of harbors and stretches of coast. The Hawaiian Islands volume of the United States Coast Pilot sells for \$2.50.

Topographical maps of the Hawaiian Islands are made by the U.S. Geological Survey, to three scales:

- 1:250,000 Main islands (5 sheets \$1.75 each)
- 1:62,500 Map for each of the eight main islands, in quadrangles (\$1.50 each) and for Kauai, Oahu, Molokai and Maui, (one sheet to each island, \$1.00 each)
- 1:24,000 Kauai (11 sheets), Oahu (15 sheets), Maui (17 sheets) and parts of Hawaii Island (when complete in about 69 sheets)

There is also a special map of the Honolulu area (1:24,000, \$2.00).

The U.S. Geological Survey has offices in the western United States:

- Room 15426, Federal Building, 1961 Stout St., Denver, Colo. 80202
 - South 157 Howard St., Spokane, Wash. 99204
 - 345 Middlefield Road, Menlo Park, Calif. 94025
 - 7638 Federal Building, 300 North Los Angeles St., Los Angeles, Calif. 90012
 - 504 Custom House, 555 Battery St., San Francisco, Calif. 94111
- And local sales agencies.

B.	<u>Easter Island</u>			
	H.O. 1119	Easter Island	1:100,000	\$1.00
		Sala y Gomez	1:30,160	
C.	<u>Pitcairn group</u>			
	H.O. 1977	Henderson	1:73,410	\$.80
		Oeno	1:48,883	
		Ducie	1:49,110	
		Pitcairn	1:24,079	
D.	<u>Gambier Islands (Mangareva)</u>			
	H.O. 2595		1:15,100	\$1.70
E.	<u>Tuamotus</u>			
	H.O. 77	Tuamotu, Austral and Society Islands	1:2,057,980	\$2.00
	5732	Raniroa to Katiu	1:595,000	\$2.00

The French Service Hydrographie de la Marine is in the process of producing maps of various parts of French Polynesia. The current atomic energy tests make it doubtful if any of these is yet available.

There is a good map of Raroia atoll in Atoll Research Bulletin 31, 1954 (1" = .775 km.) and a sketch map of Rangiroa atoll in Atoll Research Bulletin 125, 1969 (without scale). The Atoll Research Bulletin is published by National Research Council, Pacific Science Board, Washington, D.C.,

F. Marcuesas Islands

H.O. 1797	Marcuesas Islands	1:962,050	\$1.00
1599	Hivaoa Island	1:72,960	\$1.30
1806	Nukuhiva Island	1:72,560	\$1.00

Clipperton Island is included in French Polynesia. It is shown on H.O. 1680 (1:20,000, \$1.00), and in Atoll Research Bulletin 86, 1962, (scale 1" = 526 meters)

G. Austral Islands and Rapa (see H.O. 77, Tuamotus, above)

H. Society Islands (see H.O. 77, above)

H.O. 2065	Tahiti and Moorea	1:466,960	\$1.00
1514	Papeete Harbor	1:6,000	\$1.00
2023	Huahine to Haupiti	1:155,000	\$1.70
5742	Bora-Bora	1:20,000	\$2.00

To fill in the gap, the Pacific Scientific Information Center has made a manuscript map (13 by 29 inches, 1" = c.15 statute miles) of the Society Islands.

The Institut Geographique National, Service de Vente de Cartes, 107 Rue la Boetie, Paris-8, France, is producing a series of topographic maps of the Society Islands (scale 1:50,000). A preliminary edition (1:40,000) has been made of Tahiti (5 sheets), Moorea, Huahine, Raiatea, Tahaa and Bora-Bora (one each). Also advertised is a "Carte Touristique" of Tahiti and the Society Islands (1:100,000), the group being shown at the scale 1:3,000,000. There are also plans to cover the whole of French Polynesia (1:1,000,000) in 10 sheets; that for Tahiti (SE-5) is said to be available (not seen).

The Service Hydrographique de la Marine, Paris, in 1959 produced no. 6980, Iles Marquiseses (1:532,142); and no. 6036, Etablissements Francois de l'Oceanie (Cook Islands to Pitcairn Island, 1:5,324,500).

J. Cook Islands

H.O. 2000

Islands and anchorages in the Cook 1.70

Islands shows the following:

Aitutaki	1:90,000
Mangaia	1:100,000
Takutea	1:60,000
Rarotonga	1:60,000 and detail of anchorage
Hervey Island	1:60,000
Atiu	1:75,000
Mauke	1:75,000

B.A. 993

Cook Islands 1:2,000,000

979

Central Pacific

Islands:

Danger Islands	1:58,120
Manihiki	1:72,570
Nassau Island	1:72,580
Rakahanga	1:50,000

New Zealand Oceanographic Institute, 177 Thorndon Quay, Wellington, N.Z., in its Island Chart Series (1:200,000) has produced charts of Aitutaki, Rarotonga, Atiu, Manuae, Mauke, and Mangaia Islands. In its Miscellaneous Series it has the bathymetry of Manihiki atoll.

Of the "Northern Cook Islands," Nassau, Danger Island, Manihiki, Rakahanga, and Tongareva are shown in Bryan, American Polynesia and the Hawaiian Chain, 1942.

K. Line Islands

B.A. 979	Shows the more southerly islets:		
	Flint	1:72,530	
	Caroline	1:64,220	
	Vostok	1:36,290	
	Starbuck	1:145,120	
	Jarvis	1:112,130	
	Baker	1:36,000	
	Howland	1:36,100	
H.O. 1823	Christmas Island	1:250,000 with details	\$2.60
1824	Fanning Island	1:49,304 with details	\$1.70
5736	Palmyra Island	1:10,000	\$2.00
5357	Kingman Reef	1:25,000	\$1.30
C.&G.S. 4193	Howland, Baker and Jarvis	1:15,000	\$1.00

All of the Line Islands, and Johnston Island (as of 1922), are shown in Bryan, American Polynesia and the Hawaiian Chain, 1942. Johnston Island as of recent years is shown in Atoll Research Bulletin 120; and Christmas Island (1" = 4 miles) in Atoll Research Bulletin 90, 1962.

L. Phoenix Islands

H.O. 1993	Howland Island to Samoa includes Howland, Baker, the Phoenix Islands, Tokelau Island, Swains Island and a few Ellice Islands		
		1:740,100	\$2.00
124	Phoenix Islands	1:485,800	\$2.00
5740	Canton Island	1:80,000	\$1.70
5741	Canton Island	1:20,000	\$2.00
5737	Hull Island	1:15,000	\$2.00
5738	Sydney and Gardner	1:15,000	\$1.70
5739	(Enderbury	1:20,000	
	(Birnie, Phoenix and (McKean	1:12,000	\$2.00

Canton Island (1" = 1667 feet) in Atoll Research Bulletin 43, 1955.

All eight Phoenix islands in Bryan, American Polynesia and the Hawaiian Chain, 1942.

M. Tokelau Islands

Former H.O. 126 showing the three Tokelau atolls is no longer listed. These three atolls are shown in Bryan, American Polynesia and the Hawaiian Chain, 1942.

N. Samoa (without regard to political affiliation)

H.O.	87	Samoa Islands	1:703,000	\$1.30
	2921	Savaii and Upolu	1:200,000	\$2.30
	95	Harbors on Upolu	various	\$1.70
C.&G.S.	4190	U.S. Possessions		
		in Samoa with	1:2,037,297	\$1.50
		insets of Tutuila	1:60,000	
		Pago Pago Harbor	1:15,000	
		Manu'a and Rose	1:80,000	
	4191	Swains Atoll	1:20,000	\$1.00
G.S.		Tutuila	1:24,000	\$1.00
		Manu'a Islands	1:24,000	\$1.00

Western Samoa Lands and Surveys Dept.

1:200,000	Savaii and Upolu, with inset of Apia
1:20,000	Savaii in 16 sheets, Upolu in 12 sheets (nearly completed)

Various older maps of Savaii and Upolu have been prepared by the New Zealand government.

O. Niue Island

Former H.O. 1986 is no longer listed. Niue Island is shown on British Admiralty 968, 1:150,000. It is also shown as a soil map of Niue (1:63,360) on a map to accompany Soil Bureau Bulletin no. 17 (1958) of the Department of Scientific and Industrial Research, Wellington, N.Z.

P. Tonga

H.O.	2016	Tonga Islands	1:589,330	\$1.70
	2010	Nomuka	1:18,410	
		Eua	1:73,340	\$1.00
	2012	Vavau group	1:74,460	\$2.00
	2021	Fiji to Samoa, covers		
		the Tongan area	1:1,676,980	\$2.00
B.A.	968	Niuafu'ou and		
		Niuaotupapu	1:100,000	
	2363	Approaches to		
		Nuku'alofa (harbor)	1:50,000	

Q. Wallis, Futuna and Alofi

H.O. 2021 Fiji to Samoa, shows these islands and also the various banks and shoals included in "S" \$2.00

2019 Wallis Island and anchorages, 1:80,000, \$1.70.

1996 Futuna and Alofi, 1:36,840, \$1.30

B.A. 968, Futuna, Alofi and Wallis Island, 1:100,000.

S. Ellice Islands

Former H.O. charts covering the Ellice Islands seem to have been dropped with the exception of 1802, Funafuti atoll (1:36,283, \$1.70). Part of the area is on the western edge of 1993, Howland to Samoa (1:1,740,100, \$2.00)

II. MICRONESIA

All of the Micronesian area is shown on H.O. 5500, Trust Territory of the Pacific Islands (1:4,000,000, \$2.30)

A. Gilbert Islands

H.O. 119	Gilbert Islands, including Ocean and Nauru	1:973,900	\$2.60
122	Plans in the Gilbert Islands: Marakei, Maiana, Abemama, Kuria and Aranuka	1:145,830	.60 each
HO-FC 34, 35, 36	Tarawa (in 3 parts)	1:26,558	.45 each

B. Nauru Island

H.O. 2179	(1:76,130) and Ocean Island (1:49,640)	\$1.30
B.A. 979	Nauru Island (1:75,000) and Ocean Island (1:55,200)	

C. Marshall Islands

H.O. 5413	Marshall Islands, northern portion	1:952,810	\$2.30
5414	Marshall Islands, southern portion	1:968,609	\$2.30

As a result of World War II, charts were made of almost all the 33 islands in the Marshall Islands. In addition, the Army Map Service made maps of all of them to a scale of 1:50,000. Maps were made of all by U.S. Commercial Company's Economic Survey of Micronesia, to a uniform scale of 1:100,000, and copies of these (together with maps of the Caroline and Mariana Islands) were reproduced in the form of an atlas for sale chiefly in the Trust Territory. These maps were drawn in 1946 and the names used were mainly those used on Japanese charts, before they had been Americanized. Maps were printed of all the Gilbert and Marshall Islands in Atoll Research Bulletin 127 (1969) with more acceptable names. At the request of the Land Department of the Trust Territory of the Pacific Islands, this writer is revising his gazetteer of Micronesian place names. This will tabulate systematically all available spellings of place names in the Marshall, Caroline and Mariana Islands. Each unit (atoll or isolated single island, and the five groupings of high islands in the Carolines and fourteen in the Marianas) will be illustrated by a map showing the location of place names. For these reasons, the chart numbers for the individual islands will not be listed here in detail.

D. Caroline Islands

H.O. 5415, 5416, 5417, and 5418 (to a scale of 1 to just under 1,000,000) show the Caroline Islands from Kusaie to Palau, price about \$2.60 each. The revised gazetteer noted above will contain maps for each of the units of the Carolines. For that reason, only the charts of high island groups will be noted here.

H.O. 5420	Kusaie	1:72,253	\$1.00
6039	Ponape	1:103,557	\$1.70
6046	Truk	1:126,350	\$1.70
5021	Yap	1:72,900	\$2.00
6073	Palau	1:165,000	\$1.70

E. Mariana Islands

H.O. 5360	Mariana Islands	1:931,650	\$2.30
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What is said in C above applies to the Mariana Islands also.

F. Guam

C.&G.S.	4196	1:1,000,000	\$1.50
G.S.		1:62,500	\$1.00

G. Wake Island

H.O. 6034	Wake Island	1:15,000	\$2.30
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Includes an insert of Marcus Island (1:24,000).

III. MELANESIA

A. Fiji

H.O. 2850	Fiji	1:750,000	\$2.60
2851	Fiji (N.E. part)	1:351,678	\$1.70
2852	Fiji (S.E. part)	1:350,201	\$.80
2855	Vanua Levu	1:144,120	\$2.00
2856	Fiji (N. central part)	1:144,060	\$2.00
2858	Viti Levu east coast	1:144,600	\$2.00
2859	Viti Levu to Kandavu	1:143,130	\$2.00
2865	Suva Harbor	1:12,150	\$2.00

B.A. 845	W. and S.W. Viti Levu	1:142,960	
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Fiji, Director of Lands, Suva (prices in Fiji dollars)

1:500,000	Fiji Islands	(\$1.90)
1:126,720	Viti Levu (in 4 sheets, set	\$2.50)
1:126,720	Vanua Levu (in 2 sheets, set	\$1.00)
1:63,360	Suva and Lower Rewa River	(\$1.20)

- 1:63,360 Natewa Bay (\$1.00)
 1:31,680 Various individual islands: Thithia, Thikombia,
 Mango (\$.20 each) Matuku (\$.25), Moala (\$.60),
 Rambli (\$.90), Totoya (\$.60).
 1:24,000 Matuku Island (\$.25)
 1:15,840 Koro Island (\$.90)
 1:12,672 Suva (streets) (\$.30), Nausori district (\$.50),
 Lautoka (\$.50) Viwa (\$.90)
 1:7,920 Rotuma Island (3 sheets, set 2.00)
 1:6,336 Viwa (Yasawa Islands) (\$.90)
 1:4,800 Vatoa Islands (\$.65)
 1:1,584 City of Suva (in 26 sheets, \$.80 each) Also various
 other towns.

Gt. Br. Directorate of Overseas Surveys. (various map agents in Fiji;
 Edward Stanford, Ltd., 12-14 Long Acre, London WC-2)

- 1:500,000 Viti Levu (\$.15), Vanua Levu (\$.15), Fiji Islands (\$.20)
 1:250,000 Viti Levu (\$.75), Vanua Levu (\$.75), Yasawa group (\$.75),
 Kandavu group (\$.75), Viti Levu (land use, \$.40),
 Vanua Levu (land use \$.40)
 1:50,000 Viti Levu (in 22 sheets, each \$.30)
 1:50,000 Vanua Levu (in 16 sheets, each \$.30)
 1:50,000 Yasawa group (in 3 sheets, each \$.30)
 1:50,000 Kandavu group (in 3 sheets, each \$.30)
 1:50,000 Makongai (\$.30), Ngau Island (\$.30)

H.E.C. Robinson, Sydney, Map of Fiji

B. New Caledonia

- | | | | |
|-----------|--------------------------------|-----------|--------|
| H.O. 2027 | New Caledonia and New Hebrides | 1:658,000 | \$2.00 |
| 2648 | Eastern approaches to Noumea | 1:80,000 | \$2.00 |
| 2649 | Western approaches to Noumea | 1:80,000 | \$2.60 |
| 2875 | Port Noumea to Dumbea Bay | 1:20,000 | \$2.00 |
| 2871 | Ile des Pins to Il. Ouen | 1:136,930 | \$1.70 |
| B.A. 936A | New Caledonia, N.W. part | 1:320,000 | |
| B.A. 936B | New Caledonia, S.E. part | 1:320,800 | |

New Caledonia (1:855,360) "Imprimee specialment pour La Societe
 Havraise-Caledonienne" with inset of New Caledonia and Loyalty
 Islands (1:4,308,480)

Institut Geographique National, 136 Rue de Grenelle, Paris VII

- 1:50,000 New Caledonia (in 27 sheets) Ile des Pins (Kunie)
 in 1 sheet.

Chesterfield Reef, sketch maps in Atoll Research Bulletin 63 (1959)

C. Loyalty Islands

- | | | | |
|----------------|--------------|----------|-------|
| H.O./F.C. 1041 | Lifu to Uvea | 1:30,000 | \$.45 |
|----------------|--------------|----------|-------|

Institut Geographique National, 136 Rue de Grenelle, Paris VII

- 1:50,000 Lifou Island (in 4 sheets); Mare Island (in 3 sheets);
 Uvea Island (1 sheet)

D. New Hebrides

H.O.	5902	Solomon Islands to New Hebrides	1:1,660,000	\$2.30
	6000	Marienas to Philippine Islands and Taiwan	1:2,794,960	\$2.30
	2866	New Hebrides Islands	1:584,000	\$2.60
	2880	Anchorage in New Hebrides	various	\$2.00
	2882	Nialo to Efate	1:297,399	\$1.70
	2883	Espiritu Santo	1:299,180	\$2.00
	2893	Efate Island (1:139,300) and Vila Harbor	1:12,000	\$2.00
	5903	Havanna Harbor, Efate Island	1:15,000	\$2.30
	1996	Walpole Island	1:35,880	
		Matthew Island	1:24,430	
		Hunter Island	1:24,520	
		Aneutyum Island	1:74,060	\$1.30

Institut Geographique National, 136 Rue de Grenella, Paris VII
 1:500,000 Carte generale (in 2 sheets)
 1:100,000 (in 12 sheets) most of which have been published
 1:50,000 Efate Island (in 4 sheets)

E. Banks Islands

H.O. 2877 Banks Islands (1:219,260 \$1.00) with various details

Institut Geographique National, 136 Rue de Grenella, Paris VII
 1:100,000 (2 sheets)

F. Torres Islands

H.O. 2878 Plans in Torres and Banks Islands
 and various insets 1:100,000 \$1.30

Institut Geographique National 1:100,000 on 1 sheet.

G. Santa Cruz Islands

H.O. 1985 Santa Cruz Islands (1:365,640 \$1.00) with 4 details.

(To be covered, 1:50,000, with the Solomon Islands, q.v.)

H. & I. Solomon Islands (both the Protectorate and those mandated to Australia)

B.A.	3402	Santa Isabel to New Georgia	1:250,000	
H.O.	2896	Solomon Islands	1:963,727	\$2.60
	2920	San Cristobal Island	1:166,730	\$1.70
	2916	Guadalcanal and Florida Islands	1:216,850	\$1.70
HO/FC	3012	Indispensable Strait	1:248,894	\$.70
H.O.	5980	Russell Islands	1:80,000	\$1.30
	5911	Isabel Island, east part	1:146,886	\$1.10
	5912	Isabel Island, west part	1:146,164	\$1.70
HO/FC	1021	Lanning Strait	1:150,000	\$.45
H.O.	2902	New Georgia group	1:146,990	\$1.70
	2900	Bougainville Strait	1:193,100	\$.60

The Director of Overseas Surveys, whose agents include Edward Stanford, Ltd., 12-14 Long Acre, London, W-2, and the Department of Lands and Mines, Honiara, Guadalcanal, B.S.I.P., has in preparation a series (1:50,000) covering the Solomon Islands and also the Santa Cruz Islands. Those for Shortland Islands, Treasury Island, Vella Lavella, Kolobangara, New Georgia Islands and part of Santa Isabel have been completed and also preliminary maps for other areas. A geologic map covering part of the Solomon Islands has also been completed.

H.E.C. Robinson, 221-3 George St., Sydney, N.S.W., has produced maps of the Santa Cruz and Solomon Islands.

Numerous military maps were made by the Army Map Service and other agencies during World War II. The extent to which these are available to the public is not known.

J.K.L.M. Louisiade, Woodlark, d'Entrecasteaux, and Trobriand groups

H.O.	5912	Bismarck Archipelago and Solomon Islands	1:1,090,000	\$2.60
	2955	(Louisiade Islands) Bramble Haven to Rossel Islands	1:295,180	\$1.70
Australia 37.		Louisiade and Misima	1:300,000	
Australia 38.		d'Entrecasteaux: Kegawen to Kiriwina	1:300,000	

These areas are shown on general maps of eastern New Guinea. The National Mapping Office, Canberra, Australia, has issued various maps of New Guinea and the Bismarck Archipelago, including one (1:2,534,400) of this region.

N. Bismarck Archipelago (including the Admiralty Islands)

H.O.	5593	New Guinea, Bismarck and Solomon Islands	1:2,921,732	\$2.00
	5912	Bismarck Archipelago and Solomon Islands	1:1,090,000	\$2.60
	2969	Ninigo group	1:145,890	\$1.00
	2972	Blanche Bay (New Britain Island)	1:25,000	\$2.00
	2984	Kavieng Harbor (New Ireland)	1:12,670	\$1.70
	2985	Manus Island	1:225,000	\$2.60
	2986	Sea Adler Harbor	1:50,000	\$2.60
	2989	Western New Britain and Huon Gulf	1:300,000	\$2.60
	10219	New Britain and New Hanover (various details)		\$.50
B.A.	3553	Gazelle Peninsula and St. George Channel	1:200,000	

H.E.C. Robinson, 221-3 George St., Sydney, N.S.W. has a map of Papua and New Guinea, which shows this area in some detail.

Maps have been produced by the National Mapping Office, Canberra, Australia.

IV. NEW ZEALAND AND DEPENDENCIES

This guide does not pretend to include New Zealand maps in detail, but to round out the Pacific area, a few will be noted. The nautical charts issued by the U.S. Naval Oceanographic Office are listed in its catalog for Region 7, price 25 cents.

A series of charts produced by the New Zealand Hydrographic Office cover the coasts and harbors as well as offshore islands and dependencies.

The New Zealand Oceanographic Institute, P.O. Box 8009, Wellington, has issued several series of charts for the coasts of New Zealand (1:200,000) and off-shore areas (1:1,000,000) showing bathymetry and sediments, and a miscellaneous series covering a wide range of oceanographic subjects.

A descriptive atlas of New Zealand, edited by A. H. McLintock, published by the Government Printer, Wellington, 1960, has maps of various scales, including a uniform topographic coverage of 1:1,000,000, and city plans and historical data.

The New Zealand Lands and Survey Department has produced maps covering a wide range of scales and subjects, including street guides of Auckland, Wellington and other cities.

The New Zealand National Airlines has published a pictorial air atlas, with five sections covering North and South Islands in color.

This guide does not pretend to list all of the maps covering the Pacific, and has omitted many in the collection of the Pacific Scientific Information Center which are not available for general distribution. Readers are urged to send additions and corrections to L. H. Bryan, Jr., Bernice P. Bishop Museum, P.O. Box 6037, Honolulu, Hawaii 96818.

KEY TO ABBREVIATIONS

B.A.	British Admiralty
H.O.	U.S. National Oceanographic Office
C. & G.S.	U.S. Coast and Geodetic Survey
G.S.	U.S. Geological Survey

compiled by

Mary Blakely, Kathleen Brennan, Ruth Elwonger and Maureen Wilson

CANADA

ALBERTA

Province of Alberta, Canada - municipalities. 1:750,000. 1970.
Dept. of Municipal Affairs, Edmonton, Alberta. 2 sheets,
\$1.00 per sheet

City of Calgary showing ward boundaries and polling subdivisions,
population as of January 15, 1969. [1969], City Clerk's Dept.,
Calgary. Free

BRITISH COLUMBIA

British Columbia marine parks. 1:63,360 [1969?], Parks Branch,
Dept. of Recreation and Conservation, Parliament Buildings,
Victoria, B.C. Free

British Columbia regional districts, 1:253,440. Regional
Planning Division, Dept. of Municipal Affairs, Parliament
Buildings, Victoria, B.C. 71 sheets, \$.25 per sheet

British Columbia regional districts, 1:1,900,800. 1970.
Regional Planning Division, Dept. of Municipal Affairs,
Parliament Buildings, Victoria, B.C. Free

Cariboo fishing map. 1:800,000. 1969. Cariboo Tourist
Association, Williams Lake, B.C. Free

City of Vancouver zoning map. 1:12,000. 1969. Planning Dept.,
City Hall, 453 West 12th Avenue, Vancouver, B.C. \$6.00

City of Victoria, B.C. 1:6,000. 1969. Public Works Dept.,
Victoria, B.C. Free

Drive the fabulous Figure 8 - fishing and hunting map guide.
1:6,336,000 and 1:1,450,000. 1970. Figure 8 Tourist
Association, Box 488, Kamloops, B.C. Free

Mineral inventory maps. 1:126,720 and 1:250,000. 1969- [black
and white prints of B.C. Land Service, land status maps with
mineral properties added], Dept. of Mines and Petroleum Resources,
Victoria, B.C. \$1.00 per sheet. University of British Columbia
has six sheets; 100 will be produced eventually.

BRITISH COLUMBIA (continued)

1969 Yellowhead Highway visitors guide. 1:506,880. 1969. Central North Thompson Chamber of Commerce, Clearwater, B.C. Free

Preemptor series, Peace River . . . (3E) 1:253,440. Geographic Division, B.C. Lands Service, Parliament Buildings, Victoria, B.C. \$1.00

Provincial parks of Vancouver Island [1969?] Parks Branch, Dept. of Recreation and Conservation, Parliament Buildings, Victoria, B.C. Free

Sectional map and street directory of the Fraser Valley . . . 1:60,000 [1969] With insets at larger scale. Dominion Map Company, 569 Howe Street, Vancouver, B.C. \$.95

Street map of Greater Vancouver. ca. 1:36,000. 1969. Home Oil Distributors, 505 Burrard Street, Vancouver, B.C. Free

Western Garibaldi Park (PS-G3) 1:63,360. 1970. Geographic Division, B.C. Lands Service, Parliament Buildings, Victoria, B.C. \$.75

UNITED STATES

ARIZONA

Arizona aeronautical chart. 1:1,000,000. 1968. Arizona Dept. of Aeronautics, Phoenix, Ariz. Free

Arizona general highway map. 1:500,000. 1968. Arizona Highway Dept., Phoenix, Ariz. \$1.40

Arizona index map of geologic theses. 1:500,000. 1969. Sigma Gamma Epsilon, Tucson, Ariz. \$20.00

Atlas of Maricopa County, Arizona. 1969. Arizona Highway Dept., Photogrammetry and Mapping Division, Phoenix, Ariz. \$16.25

Atlas of Yavapai County, Arizona. 1968. Arizona Highway Dept., Photogrammetry and Mapping Division, Phoenix, Ariz. \$15.90

Lake Havasu City, Arizona; America's home for the London Bridge. 1970. McCulloch Properties, Inc., Lake Havasu City, Ariz. Free

Lower Gila resource area. 1:500,000. 1968. U.S. Bureau of Land Management, Ogden, Utah. Free

Lake Havasu City, Arizona; general land use. ca. 1:24,000. 1969. McCulloch Properties, Inc., Lake Havasu City, Ariz. Free

Map of Colorado River Indian Reservation. ca. 1:125,000. 1969. Triumph Press, Inc., Los Angeles, Ca. \$.35

ARIZONA (continued)

Maps of flood-prone areas in Arizona, 1:24,000 and 1:62,500.
1969 (9 sheets) 1970 (45 sheets) Arizona District Office, U.S.
Geological Survey, Tucson, Ariz. Free

Metro Phoenix street atlas. 1969. First National Bank of
Arizona, Phoenix, Ariz. Free

Metro Tucson street atlas. 1968. First National Bank of
Arizona, Phoenix, Ariz. Free

San Carlos Apache recreation map. 1:250,000. 1968. Norman W.
Mead, Mesa, Ariz. \$.25

Saguaro National Monument, Tucson Mountain Section. 1:62,500.
1968. Southern Arizona hiking Club, Tucson, Ariz. Free

Santa Catalina Mountains, Arizona; a trail and recreation map.
1:62,500. 1969. Southern Arizona Hiking Club, Tucson, Ariz. \$1.50

"Space age" road map of Tucson, Arizona vicinity. 1:250,000. 1969.
Arizona District Office, U.S. Geological Survey, Tucson, Ariz. Free

Official polyconic projection map of greater Tucson with all of
Pima County. ca. 1:24,000. 1968. Hearne Brothers, Detroit, Mich.
\$152.50

CALIFORNIA

Areas served with gas by utilities, includes areas within one-half
mile of gas mains, 1:1,425,600. 1968. California Public Utilities
Commission, 350 McAllister St., San Francisco, Ca. 94102

Butte Ranger Unit. 1:190,080. Rev. 1968. California Division of
Forestry, 1416 Ninth St., Sacramento, Ca. 95814

California soil conservation districts. 1:4,000,000. 1969.
California Division of Soil Conservation, 1416 Ninth St.,
Sacramento, Ca. 95814

California State highways, with interstate, United States, and
State sign routes. 1969. Available in any desired scale from
California Division of Highways, 1120 N St., Sacramento, Ca. 95814

County outline map, showing county seats and incorporated areas. n.d.
Available in various sizes from California Division of Highways,
1120 N St., Sacramento, Ca. 95814

Electric service areas, within one mile of distribution facilities
35 KV or less ... 1:1,425,600. 1969. California Public Utilities
Commission, 350 McAllister St., San Francisco, Ca. 94102

CALIFORNIA (continued)

Lassen and Shasta National Forests, Pit and Hat Creek Districts, California, Mt. Diablo Meridian. 1:126,720. 1970. U.S. Forest Service, 630 Sansome St., San Francisco, Ca. 94111

Boat launching facilities, project summary. 1:1,900,800. 1968. California Department of Harbors and Watercraft, (now Department of Navigation and Ocean Development, Harbors Division) 1416 Ninth St., Sacramento, Ca. 95814

Major statistical areas with subregional areas and 1970 census tracts. 1:126,720. 1970. San Diego County Planning Department, County Administration Bldg., San Diego, Ca. 92101

Modoc National Forest, California, Mt. Diablo Meridian; forest visitors' map. 1:126,720. 1970. U.S. Forest Service, 630 Sansome St., San Francisco, Ca. 94111

Oil and gas field maps. California Division of Oil and Gas, 1416 Ninth St., Sacramento, Ca. 95814, and district offices. \$1.50 each. 97 maps arranged by district, showing map numbers, revision dates, and prices. Available from Division. Maps are reissued about once a year.

Geysers geothermal. \$1.00. Available from California Division of Oil and Gas at above address.

Wildcat maps. 23 maps, \$2.50 each. Available from California Division of Oil and Gas at above address.

Placer County: North Tahoe Basin (eastern Placer County) atlas, by Stanley E. Henry. 1970 ed. Henry Maps and Atlases, Inc., 8874 Madison Ave., Fair Oaks, Ca. 95628. \$165.00

Progress guide and general plan for the city of San Diego. 1:63,360. 1970. Planning Dept., City Administration Bldg., City Concourse, San Diego, Ca. 92101

Sacramento metropolitan area map. 1:31,680. 1968. Sacramento City Planning Commission, City Hall, Sacramento, Ca. 95814

Water Resources development maps, northwestern California, set of five maps, 1:475,200. 1970, Eel River Water Council, 2380 Professional Drive, Santa Rosa, Ca. 95401

WASHINGTON

- Adams County, Wash. 1 inch equals 1 mile. Rev. 1969. 3 sheets,
\$1.50/set
- Asotin County, Wash. 1 inch equals 1 mile. Rev. 1969. 1 sheet,
\$.50
- Chelan County, Wash. 1 inch equals 1 mile. Rev. 1969. 6 sheets,
\$3.00/set.
- Ferry County, Wash. 1 inch equals 1 mile. Rev. 1969. 4 sheets,
\$2.00/set
- Garfield County, Wash. 1 inch equals 1 mile. Rev. 1969. 2
sheets, \$1.00/set
- Pend Oreille County, Wash. 1 inch equals 1 mile. Rev. 1969.
2 sheets, \$1.00/set
- Skamania County, Wash. 1 inch equals 1 mile. Rev. 1969.
3 sheets, \$1.50/set
- Walla Walla County, Wash. 1 inch equals 1 mile. Rev. 1969.
4 sheets, \$2.00/set
- Whatcom County, Wash. 1 inch equals 1 mile. Rev. 1969. 6
sheets, \$3.00/set

Available from: Dept. of Highways, Highway Planning Division,
Highways-Licenses Building, Olympia, Wash. 98501

The State of Washington regional tourist resources and facility
development areas. 1968 ed. Dept. of Commerce and Economic
Development, Olympia. Available from Documents Center, Washington
State Library, Olympia, Wash. 98501.

Western part of King County, Washington. ca.1:50,000. 1970.
Published by the King County Dept. of Public Works, King County
Courthouse, Seattle, Wash. Not available through the mail.
Available only at the desk; single copies are free, any additional
copies are \$.25

USGS 15 MINUTE QUADRANGLE MAPS

The Information Bulletin has been informed that the U.S. Geological
Survey is not going to print or reprint any 15-minute quadrangle maps
in the future. Anyone contemplating adding 15-minute quadrangle maps to
a map collection should act without delay.

JUNE 1971 WAIL MEETING

The Special Libraries Association will hold its annual conference June 6-12 at the Hilton Hotel in San Francisco, and plans are being made for a joint meeting of WAIL and the SLA Geography and Map Division on Saturday June 12.

This meeting will take the place of the regular WAIL spring meeting. It will be held at the Nut Tree Restaurant near Vacaville. Details will be announced as soon as possible.

The Geography and Map Division is planning a number of activities during the week of the conference. These will be open to WAIL members, whether or not they are members of SLA.

Preliminary Program
Geography and Map Division

Monday, June 7

12:00-2:00 p.m. Luncheon, Rocca's Restaurant, 555 Golden Gate Ave.

Speaker: Richard Daniel Smith, Graduate Library School
University of Chicago

Title: Maps: Their Deterioration and Preservation

2:00-6:00 Tour: Basic San Francisco

Tour leader: Richard F. Hough, Associate Professor
Department of Geography, San Francisco State College

Description: A guided bus trip which reveals much of the diversity of the city. Highlights include the financial-commercial core, historic sites, ethnic concentrations, redevelopment areas, port facilities, and vista points.

8:30 p.m. Division business meeting, Hilton Hotel

Tuesday, June 8

12:00-2:00 p.m. Luncheon, Hilton Hotel

Speaker: Richard H. Dillon, Librarian, Sutro Library,
San Francisco (Branch of California State Library)

Title: Names on the Land

Wednesday, June 9

12:00-2:00 p.m. Luncheon (Buffet Style), Crown Room, Fairmont Hotel,
 Mason and California

Speaker: Irwin Luchman, President, People for Open Space,
 San Francisco

Title: Save the Land

Thursday, June 10

Tour: U.S. Geological Survey, Menlo Park

8:15 a.m. Bus leaves for Menlo Park

9:30-11:45 a.m. Morning session, U.S. Geological Survey tour

12:00-1:45 p.m. Luncheon, Allied Arts Guild, Arbor Road and Creek Drive

2:00-4:30 p.m. Afternoon session, U.S. Geological Survey tour

4:45 p.m. Bus returns to Hilton Hotel, San Francisco

7:30 p.m. Division Social Event, Jake's Verdi Cafe, 673 Union Street
 No-Host Cocktail Hour

8:00 p.m. Dinner

Friday, June 11

7:30-8:30 a.m. Breakfast, Hilton Hotel

Meeting on the Berkeley Campus, University of California

8:30 a.m. Bus leaves for Berkeley

9:30-11:30 a.m. Map Workshop Panel: Planning a Map Library, Student Union,
 University of California, Berkeley

Moderator: Gerard Alexander, Chief, Map Division,
 New York Public Library

Panelists: Ezra Ehrenkrantz, AIA, President, Building
 Systems Development, Inc., San Francisco
 and
 Professor from Department of Architecture
 University of California, Berkeley

Title: The Architect's Viewpoint

Panelist: Stanley D. Stevens, Map Librarian,
University Library, University of
California, Santa Cruz

Title: The Map Librarian's Viewpoint

Panelist: William Dale Ebersole, Jr., Assistant Reference
Librarian, University of Toledo Libraries

Title: Selecting Furnishings and Equipment

Descriptions of New Map Libraries:

Mary Fortney, Map Librarian, Map Collection
Northwestern University, Evanston, Illinois

Alberta G. Koerner, Assistant Map Librarian, Map Room
University of Michigan Library, Ann Arbor

(Others may be added later)

12:00-2:00 p.m. Luncheon, Golden Bear Restaurant, Student Union
University of California, Berkeley

Speaker: Robert N. Colwell, Associate Director
Space Sciences Laboratory, University of
California, Berkeley

Title: Geographic Applications of Aerial and Space Photography

2:30 p.m. Visit to Map Library, Room 137, General Library,
Sheila Dowd, Map Librarian, will discuss the Map Library.

3:30 p.m. Description of Map Collection, Bancroft Library, by
Phil Moehn, Map Librarian

4:30 p.m. Visit to Earth Sciences Library, Mrs. Beatrice Lukens, Librarian.

6:00 p.m. Bus returns to Hilton Hotel

Saturday, June 12

Joint Meeting with the Western Association of Map Libraries

8:30 a.m. Bus leaves for Nut Tree Restaurant (near Vacaville, California)

10:00-11:30 a.m. Morning session

12:30-2:00 p.m. Luncheon

2:30-4:30 p.m. Afternoon session

5:00 p.m. Bus returns to Hilton Hotel

The program will include a talk by Robert H. Power, owner of the Nut Tree Restaurant, on "The Cartography of Nova Albion, 1581-1846" and a panel on aerial photography, organized and chaired by Mary Murphy, Chief, Analysis Branch, U.S. Army Topographic Command, Washington, D.C. Additional topics on the program will be announced later.

WAML

WAML is a membership organization. The officers want you to contribute your views and suggestions on what our association should be doing - meetings, projects, etc. Such communication is especially important in an organization with a wide-spread membership like ours, because distances make it unlikely that a majority of the membership can attend meetings regularly.

The results of the mid-1970 questionnaire on WAML meeting preferences are reported elsewhere in this Information Bulletin. The replies will be of value in planning future meetings. Additional suggestions may be sent to the Program Chairman, Edward Thatcher, Map Room, 165 Condon Hall, University of Oregon, Eugene, Oregon 97403.

Contributions to or suggestions regarding the Information Bulletin are welcome. We should like to have members submit articles, reviews, bibliographies, or news items, for possible inclusion. (Send them to the Editor, Mary Schell, California State Library, P.O. Box 2037, Sacramento, California 95809).

Efforts have been made recently to enlarge the coverage of "New Mapping of Western North America," by including additional states.

Copies of the June 1970 Information Bulletin have been mailed to approximately 100 college and university libraries in the western United States, inviting them to become institutional members or to subscribe.

The Information Bulletin is also being sent to Library Literature and to Library and Information Science Abstracts for indexing in those two professional journals.

Results of Questionnaire on WAIL Meetings

Twenty-eight replies were received to the questionnaire on WAIL meeting preference distributed to members last summer.

The tally of the replies follows:

1. Shall meetings be held outside the central California area?

14 Yes 14 No

If yes, please indicate your preference for an area by checking the cities listed or by adding your own suggestions

10 Eugene (Oregon)
 7 Los Angeles (California)
 6 Santa Barbara (California)
 4 Reno (Nevada)
 3 Seattle (Washington)
 3 Portland (Oregon)
 1 Las Vegas (Nevada)

2. Indicate the topics which you would like discussed at future meetings by checking those listed below or adding your own suggestions.

15 Historical maps
 16 Aerial photography
 15 Atlases, national and thematic
 4 Commercial map publishing
 12 Union list of map holdings in California
 13 Map producers of Latin America
 10 Map producers of Europe
 11 Map producers of Asia
 8 Developments in oceanographic maps and charts

Other suggestions:

Map producers of Africa
 Map producers of Central America
 Remote sensing, infrared mapping - how to interpret
 Acquisition of town plans (modern and historical)
 Problems of collecting street maps of foreign cities and selected sources
 Deep-sea drilling project - a source of new chart and map data
 Periodicals for the map library
 Reproduction of maps for use in theses, etc. - methods of enlarging, reducing, etc.
 Physical planning of map libraries
 Map equipment
 Care and preservation of maps
 Minimum standards for map libraries
 Types of questions asked by map users
 Problems of publicizing the map collection
 Indexing
 Automation - both in map compilation and information retrieval
 TOPOCOPI - depository terms of agreement
 3-dimensional map models, production, storage, etc.
 Education for librarianship

Treasurer's ReportFiscal Year 1969/70

<u>Previous balance</u>		\$444.27
<u>Income</u>		
<u>Dues</u>		
Individual memberships	60 at \$5.00 each	300.00
Institutional memberships	4 at \$25.00	
	1 at \$5.00	105.00
Interest on funds deposited in bank		24.19
	<u>Total income</u>	<u>429.19</u>
	<u>Total assets</u>	<u>873.46</u>
<u>Expenditures</u>		
1970 spring meeting		
Refreshments		4.84
Limibus to lunch and return		8.50
Lunch for guest speaker		1.00
Membership in Association of Canadian Map Libraries		3.00
President's expenses for Information Bulletin		239.13
Cashier check fee		<u>.25</u>
	<u>Total expenditures</u>	<u>256.72</u>
	Balance, July 1, 1970	616.74

SIA MAP COLLECTIONS DIRECTORY

The Special Libraries Association has published a revised second edition of Map Collections in the United States and Canada; a Directory, originally issued in 1954. Entries for some 600 American and Canadian map collections are arranged alphabetically by city, within a state or province, with full street address and/or post office box number, ZIP code, telephone number, area code, and extension. Descriptive information for each collection includes size of staff, collection size, annual accessions, area and subject specialization, special cartographic collections, depository agreements, service restrictions, interlibrary loan policy, reproduction facilities, and map library publications. The directory also includes an index, a list of abbreviations, and a map showing the location of major United States and Canadian map collections.

A project of the SLA Geography and Map Division, the publication was compiled by the Directory Revision Committee under the direction of Chairman David K. Carrington, of LC's Geography and Map Division. The preface acknowledges the assistance of WAIL's treasurer, Stanley D. Stevens, in the planning and compilation of the questionnaire and cover letter and of WAIL president, Larry Schell, in supplying a regional mailing list.

Copies of the directory, at \$7.50 each, may be ordered from the Special Libraries Association, 235 Park Avenue South, New York, N.Y. 10003.

BATHYMETRIC CHARTS OF THE NORTH PACIFIC

The Scripps Institution of Oceanography and the Institute of Marine Resources, University of California, San Diego, have prepared 10 bathymetric charts covering the North Pacific Ocean sea floor. Designed to aid scientists working in the oceanographic field, they may also be useful to teachers and the general public for they display the topography of the sea floor in great detail.

The charts are an interpretation of the sea floor features using contours and diagrammatic symbols. Two colors are used to aid in determining differences between land masses, atolls, reefs, and features greater than 100 fathoms. Representative profiles of the sea floor are included to further assist the user of these charts.

The charts are \$2.75 each or \$20.00 for the set of 10, plus 5 per cent sales tax. Checks should be made payable to the Regents of the University of California. Orders should be addressed to:

Institute of Marine Resources
University of California, San Diego
La Jolla, California 92037

APPOINTMENT

Lee Hubbard, formerly city librarian of Winchester, Virginia, was appointed to the position of map librarian, University of Washington Libraries, effective July 1, 1970. He is a graduate of the University of California at Berkeley (A.B. in Anthropology and M.L.S.) He also attended the University of Chicago as an undergraduate and graduate student, and Cambridge University in England as a graduate student. He spent two summers in England in preparation for his privately-printed work, Old Buildings and Battlefields of Southeast England: A Tourist Atlas.

POSITION WANTED

Howard P. Stone, who received his master's degree in February 1971 from the Graduate School of Library Science, University of Illinois, would like a position in a map library. Anyone who has information about an opening may write to Mr. Stone at 7 Morey Road, Roslindale, Mass. 02131.

NEW USGS DEPOSITORY

Harold Otness, Southern Oregon College, Ashland, reports that his library is now a depository for USGS maps - the only one in that part of Oregon. He invites map librarians traveling in the area to visit him and his map collection. His library is located a short distance from Interstate 5.