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National Geographic Society

INDEX TO MAP OF

PACIFIC OCEAN

and the Bay of Bengal



Prepared in the Cartographic Department of the

National Geographic Society

FOR

The National Geographic Magazine

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ORGANIZED FOR "THE INCREASE AND DIFFUSION OF GEOGRAPHIC KNOWLEDGE"

To carry out the purposes for which it was founded fifty-five years ago, the National Geographic Society publishes this Magazine monthly. All receipts are invested in The Magazine itself or expended directly to promote geographic knowledge.

Articles and photographs are desired. For material The Magazine uses, generous remuneration is made.

In addition to the editorial and photographic surveys constantly being made, The Society has sponsored more than 100 scientific expeditions, some of which required years of field work to achieve their objectives.

The Society's notable expeditions have pushed back the historic horizons of the southwestern United States to a period nearly eight centuries before Columbus crossed the Atlantic. By dating the ruins of the vast communal dwellings in that region, The Society's researches solved secrets that had puzzled historians for three hundred years.

In Mexico, The Society and the Smithsonian Institution, January 16, 1939, discovered the oldest work of man in the Americas for which we have a date. This slab of stone is engraved in Mayan characters with a date which means November 4, 291 B. C. (Spinden Correlation). It antedates by 200 years anything heretofore dated in America, and reveals a great center of early American culture, previously unknown.

On November 11, 1935, in a flight sponsored jointly by the National Geographic Society and the U. S. Army Air Corps, the world's largest balloon, *Explorer II*, ascended to the world altitude record of 72,395 feet. Capt. Albert W. Stevens and Capt. Orvil A. Anderson took aloft in the gondola nearly a ton of scientific instruments, and obtained results of extraordinary value.

The National Geographic Society-U. S. Navy Expedition camped on desert Canton Island in mid-Pacific and successfully photographed and observed the solar eclipse of 1937. The Society has taken part in many projects to increase knowledge of the sun.

The Society cooperated with Dr. William Beebe in deep-sea explorations off Bermuda, during which a world record depth of 3,028 feet was attained.

The Society granted \$25,000, and in addition \$75,000 was given by individual members, to the Government when the congressional appropriation for the purpose was insufficient, and the finest of the giant sequoia trees in the Giant Forest of Sequoia National Park of California were thereby saved for the American people.

One of the world's largest icefields and glacial systems outside the polar regions was discovered in Alaska and Yukon by Bradford Washburn while exploring for The Society and the Harvard Institute of Exploration, 1938.

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TO THE

National Geographic Society's

NEW MAP

OF

PACIFIC OCEAN

and the Bay of Bengal

PUBLISHED BY

NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D. C.

1943

Revealing Earth's Mightiest Ocean

By Albert W. Atwood

DISCOVERY of the Pacific Ocean came late in man's life on earth.

The ancient world was ignorant of its very existence. Early pilots had to depend on landmarks and knowledge of winds in their own locality; of necessity they felt their way from point to point.

There were no instruments worthy of the name to determine latitude and longitude or even time. Not until the 14th century did the compass come into common use.

Vessels were exceedingly small, and poorly designed for deep-sea voyages. Nor did they have adequate living quarters for officers and crew, or sufficient space for water, food, and gear.

Distant parts were filled with terrors of the mind as well as of the deep, with monstrous whirlpools, serpents, basilisks, and leviathans. To most men the very embodiment of Hell lay beyond the known land.

The second-century B. C. Greek scholar Eratosthenes; Ptolemy, who lived in Egypt in the second century A. D.; and the much earlier Aristotle believed that the world was round, but it suited the early Christian Church to arrange it symmetrically with Jerusalem at the center.

Nor was travel encouraged, except for pilgrims on holy journeys or crusades.

The West Discovers the Age-old East

But there came a time, as the Renaissance emerged, when new ideas broke through. Marco Polo had reached Peking. The West and the East, which for centuries had lain side by side with little knowledge of each other, began to come together.

Commerce and enterprise turned toward the East, and it was the hope of finding a shorter and safer route to the Indies that led the Spanish Court to furnish Columbus, who believed the world was round, with a fleet.

One of Portugal's princes, Henry the Navigator, turned his country's face to the sea. Already the Portuguese had been building better ships and improving the compass.

Prince Henry, eager to continue the holy war against the Moors and to expand Portugal's empire and trade, pushed expedition after expedition down the African coast and built an observatory and school of navigation.

Another Portuguese, Vasco da Gama, opened the road to India, by way of the Cape of Good Hope, shortly after Columbus had failed.

Still another Portuguese, Ferdinand Ma-

gellan, in the employ of Spain, followed the eastern coast of South America farther south than any previous navigator, sailed through the strait that now bears his name, and on November 28, 1520, entered the waters of a new sea on which he was the first European to sail. He named it the Mar Pacifico.

Crossing the Pacific, Magellan discovered the Philippines, where he met his death. But one of his ships, the *Victoria*, under Sebastián del Cano, went on home to Seville. It was the first ship in history to sail around the globe.

Thus Magellan's expedition was the first to prove that the earth was round. He linked America and the Far East, the discoveries of Columbus and Da Gama, revealed the huge extent of the Pacific, and made the greatest sea voyage in the history of man.

Ever since Magellan's day, the Pacific, like a giant magnet, has drawn an extraordinary number of exploring expeditions to itself. Seven different nationalities, Portuguese, Spanish, Dutch, English, Russian, French, and American, have made major contributions of their own.

Widest and Deepest Ocean

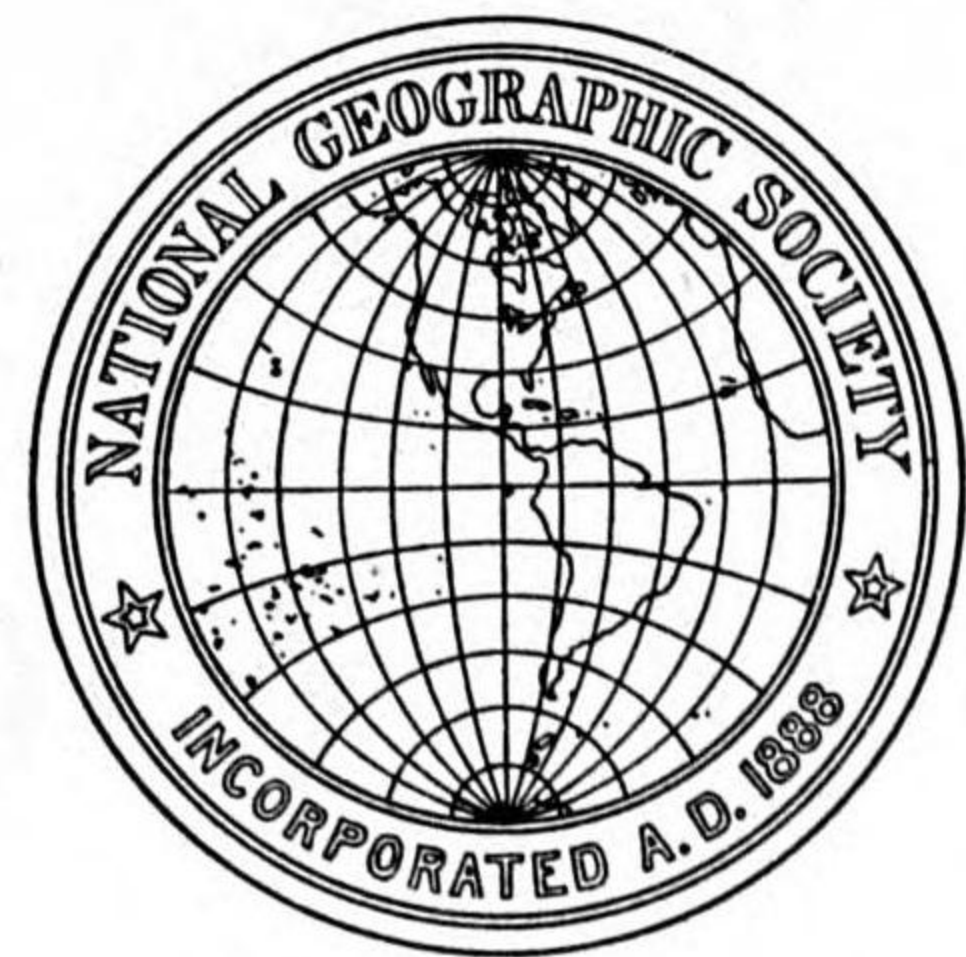
The Pacific has been described as the most explored and the least known of oceans. Its awful and incredible breadth and the very fact that scattered throughout its vast domain are most of the world's islands, from the tiniest coral speck to those of almost continental mass, have made discovery and exploration at worst haphazard and at best a prolonged, piecemeal task requiring centuries.

The Pacific is not only the widest but the deepest of oceans. It is about 23 times the size of the United States.

The voyages of early navigators, such as Magellan, gave the impression that they sailed upon a vacant ocean, and even so careful an explorer as Captain Cook once sailed 117 days without sight of land. Most of the islands are small specks in relation to such a vast expanse of ocean.

As Joseph Conrad remarked, with the

A new map supplement with the September, 1943, issue of the NATIONAL GEOGRAPHIC MAGAZINE presents a detailed and up-to-date picture of the vast Pacific Ocean. The biggest single feature of the earth's surface with its myriad islands is mapped to a scale of 1:27,500,000 on a sheet 36½ by 26½ inches. Fifty-six large-scale insets chart important island groups. A table shows 1,035 airline distances. The map includes Burma and eastern India. Any campaign launched against Japan from the Aleutians, Pearl Harbor, Australia, or India falls within the scope of this map.



Pacific in mind, "The world of geography, as far as the apportioning of space goes, seems to have been planned mostly for the convenience of fishes."

More seriously, Capt. Eddie Rickenbacker said of his 21-day drift in a rubber raft that most of the men were afraid no one would know whether they were dead or alive, as in Amelia Earhart's case, "because this is a terrifically big ocean."

For the early explorers to have traversed the Pacific at all in ill-equipped ships and with none of the modern aids to navigation took hardihood, enterprise, leadership, and superb courage.

Whatever their motives, "laudable or sinful," as Joseph Conrad has said, these men went forth . . . "each bearing in his breast a spark of the sacred fire."

For the frequent lot of Pacific explorers was that of disappointment, failure, and stark tragedy, even though their discoveries made them immortal to a later age.

Rarely bringing back the gold and spices expected by their governments, they were neglected and humiliated, often spending years begging for the necessary funds and the seaworthy vessels needed for a follow-up voyage.

They died of poisoned spears, fever, drowning, and scurvy. They suffered from Arctic and Antarctic cold, they were tricked and stabbed, and tortured by thirst and hunger.

But what motives drove them to challenge fate? The ruling impulse varied from age to age, but rarely was there a single end in view.

The Spanish mingled a search for gold with a zeal for converts. Dutch captains sought to expand trade for their employer, the Dutch East India Company. At one time many English navigators were buccaneers out to loot the Spaniards. The chief motive for many voyages was political, the search for national "routes."

Fifty-two years after Balboa discovered the Pacific (1513), the Philippines were being colonized, and the monk-seaman, Andrés de Urdaneta, was soon able to cross the Pacific from west to east, for the first time, by boldly taking a high latitude north of Hawaii.

Thus began regular trips of the Manila galleon between the Spanish empire in the Philippines and Mexico's west coast. No one had the faintest idea, however, what lay to the north or south of "Urdaneta's Passage."

Discovery of the Solomons

But Peru seethed with fabulous rumors of a rich undiscovered continent to the west, and the Incas were supposed to have found gold,

silver, and a "copper throne" in outlying islands.

Peru was filled with restless Spanish adventurers who wanted virgin fields, such as Cortez and Pizarro had had. Therefore, in 1567 the Viceroy sent out an expedition with his 25-year-old nephew, Alvaro de Mendaña, in charge, "to convert all infidels to Christianity" and, of course, to discover gold.

Mendaña was gentle and humane, firm when necessary, with self-restraint beyond his years, and persistent during the remainder of a tragic life in his purpose to colonize the land which he discovered.

His ships were unseaworthy, and he had provisions for only 600 leagues, the supposed distance of the unknown continent from Peru. But he finally landed on the central island of the Solomon group and named it Santa Isabel, after the patron saint of the voyage. He thought it was a continent, so mountainous and seemingly limitless it was.

Among the earliest of the important Pacific groups to be discovered, the Solomons long were the least developed. Before the war some were little explored, although from the group's coconut plantations came copra to yield oil for soap-making. The National Geographic Society had members there.

Mendaña and his friars tried to treat the natives fairly, but the latter were head-hunters (as were their successors for centuries), were hostile to strangers, feared the new and deadly weapons, and resented the Spaniards' insistent demand for food.

Wild pigs were plentiful, but could not be supplied on demand. Clashes and even massacres were inevitable, and Mendaña called a "parliament" to decide whether to settle in these lands, hunt for better ones, or return to Peru. He wished to remain, but the pilots complained that the ships were in bad shape, as were the soldiers' arquebuses.

The Marshall group and Wake Island were touched at on the return trip. But the voyage as a whole was disappointing. A Peruvian official reported to the King that the discoveries were of no importance because "they found no specimens of spices, nor of gold and silver, nor of merchandise, nor of any other source of profit, and all the people were naked savages."

There is no evidence that the islands as a group were given any name, but on the title page of one of the six journals kept by different members of the party appeared the words, "The Western Islands in the Southern Ocean, commonly called the Isles of Solomon." Guadalcanal was one of the islands named by Mendaña.

It took Mendaña until 1595 before he

could make another voyage, this time for colonization. He was to take 500 men, 50 of them married, large numbers of cattle, horses, goats, and pigs, found three fortified cities within six years, and receive in part return for his work the title of Marquis.

On the way, he discovered the Marquesas group and went on to Santa Cruz Island (Ndeni), southeast of the Solomons, where he decided to found a settlement. But his wife and her three brothers had gone along, dissension broke out, and Mendaña died soon after.

Two of the ships were lost on the return voyage, but one of the pilots, Pedro Fernández de Quirós, who had stood between the parsimony of Mendaña's widow and mutiny, got his vessel safely back to Manila.

Search for the Great Southern Continent

On the way, Quirós conceived the project of discovering the great Southern Continent, a feat which would not only save millions of souls but would make him as great as Da Gama or Columbus.

Returning to Spain, Quirós persuaded Philip III to send him back to Peru to search for the Southern Continent with the best available ships. He took as second in command Luis Váez de Torres, a good sailor and pilot, and set out on December 21, 1605.

Quirós mistook what he called *Australia del Espíritu Santo*, one of the New Hebrides group, for the great Southern Continent, or *Terra Australis Incognita*. Fired by religious zeal, he proceeded to take possession of the new land in an elaborate series of pageants and ceremonies.

He even appointed magistrates, a chief constable, an accountant, a treasurer, and other officers for the New Jerusalem to be founded there, and had them take the oath of municipal office.

He took possession "of all the lands which I sighted and am going to sight, and of all this region of the south as far as the Pole, which from this time shall be called *Australia del Espíritu Santo*." (This was in honor of Philip III, who was also Archduke of Austria.)

But within a few weeks the party left the New Hebrides, probably because of illness or hostile natives, and eventually Quirós reached Madrid again. There, after presenting 50 memorials and 200 maps, he obtained permission to make another voyage, and died in Panama on the way back. With him also died the heroic age of Spain.

However, Torres, whose ship had become separated from that of Quirós after they left the New Hebrides, went on. He was the first to sail through the difficult strait between

New Guinea and Australia. He did not know that Australia was a continent and, in a sense, the one for which so many explorers searched in vain; nor was the strait given his name until 1792.

To us Quirós seems a strange figure, but the idea of an unknown Southern Continent had long seemed logical enough. Balance and symmetry demanded it; the earth might topple over if Europe, Africa, and Asia in the Northern Hemisphere were not offset by an equal land mass to the south.

No mere Australia of reality was envisaged; the Southern Continent stretched, no doubt, from the Indian Ocean to South America and from the East Indies to the South Pole.

A decade after Mendaña's first voyage Sir Francis Drake, terror of the Spaniards, had burst into the Pacific, and Quirós urged his government to conceal its discoveries. So the Solomons became lost for two centuries, being placed hundred of miles east of their actual location and touched by tradition with the wonder of a mirage.

The Solomons Re-identified

Several later explorers sighted the Solomons, but without identifying them. Louis Antoine de Bougainville, who had been an aide to Montcalm in Canada and after whom the flowering vine is named, made a scientific expedition around the world, partly in search of the Southern Continent. He came near anticipating Captain Cook in exploring the east coast of Australia, but turned away from the Great Barrier Reef.

Bougainville was one of the first to see Samoa, and two of the northern Solomons, Buka and Choiseul, were named by him. Bougainville Island, largest in the Solomon group, retains his own name.

But, curiously enough, it remained for a French geographer, Buâche, a man of the study rather than a navigator, to make the re-identification of the Solomons possible. In 1781 he located them correctly by a process of inductive reasoning. In 1785 the French government sent out a scientifically equipped expedition under Jean François Galaup de la Pérouse to find them.

La Pérouse, a brave and gallant naval officer, who attended to his crews with care, was given the most detailed instructions, not only how to treat the "savages or natives," but in general how to fill in the geographical blanks left by Captain Cook. He did spend several years successfully exploring the coasts of California, Alaska, Japan, and Australia, not to mention the Hawaiian and many other islands.

Leaving the Solomons until nearly the end, he sailed from Australia in 1788 to visit them

and was wrecked on Vanikoro Island, of the Santa Cruz group. All hands were either murdered by natives or drowned; fragments of one of his frigates were found years later.

Several expeditions were sent out in vain to find La Pérouse, and many imaginary accounts of his voyage have been written.

Final identification of the Solomons was not made until 1792-3, when Joseph Antoine Bruni d'Entrecasteaux and his lieutenant, Huon de Kermadec, verified Mendaña's account, restored many of the Spanish names, and explored the labyrinth of islands that stretches out from the eastern end of New Guinea.

Australia, the last of the continents, except Antarctica, to be explored by Europeans, was not discovered by any visionary seeker for Terra Australis Incognita, but as a by-product of many voyages by Dutch sea captains seeking the shortest route to Java after rounding the Cape of Good Hope. Having no exact means of reckoning, they sometimes overran their course and sighted the west coast.

They were interested in getting their cargoes to port, not in finding an unknown continent, and naturally failed to settle this waterless land.

Anthony van Diemen, who was only an obscure clerk when he went to the East Indies but rose to governor general through sheer ability, did send out several exploring expeditions to find "islands of gold and silver."

One of his captains, Abel Tasman, discovered New Zealand and Van Diemen's Land (later named Tasmania), also the Fiji and part of the Tonga groups, and was the first to complete the circle around the Australian Continent (1642-44).

For many years Australia bore the name New Holland, but the Dutch did not follow up their voyages and eventually lost possession through the principle of "non-user." It was left for the English to explore and colonize the east coast.

A Robin Hood of Exploration

The first Englishman to touch Australia was William Dampier, adventurer, sea rover, and professional buccaneer.

An orphan, he left school at an early age, was apprenticed to a shipmaster, went to Newfoundland, fought in the Dutch war of 1673, was made a Jamaica plantation manager, entered the logwood-cutting trade, and finally joined a fleet of buccaneers.

From this beginning Dampier circumnavigated the earth—his first circumnavigation (he made two) took twelve and a half years

when it could have been done in two—serving in many subordinate capacities and on many different ships.

When he became too disgusted with the drunkenness, brawling, and bawdy behavior of the crews, he would escape, sometimes by canoe, and join another piratical captain.

Always he kept a journal, closely observing winds, tides, currents, details of navigation, animals, plants, and natives. These journals, later best sellers of their time, were clear, urbane, tolerant, with natural eloquence.

Once his party retreated across Darien (Panama), forcing their way through tropical forests, shooting monkeys and gaily colored birds for food. They were pestered by heat and mosquitoes, swam numerous streams, and lost one of their number because he was weighted down by a heavy bag of ill-gotten gold.

But Dampier had provided himself with a large joint of bamboo, "which I stopt at both Ends, closing it with Wax, so as to keep out any Water. In this I preserved my Journal and other Writings from being wet, tho' I was often forced to swim.

Buccaneering, earlier tolerated by the British government, had been a respectable form of revolt against overweening Spanish pretensions, but Dampier was still buccaneering after it had become a mere form of sea robbery, obnoxious to all governments.

Nevertheless, he was received by certain men of importance, and his writings show no particular interest in gold or spices or in his own enrichment and ambition. Perhaps buccaneering with him was merely a way of seeing the world.

Certainly he was interested in discovery for its own sake, and in his one independent naval command he was first to show that New Guinea and New Britain are separate islands. The strait between them bears his name.

Dampier did the world, and particularly his own country, a great service. His writings aroused his countrymen's interest in the South Sea islands and in the Pacific, now no longer a closed Spanish ocean.

He alone of the English navigators had come to the edge of the unknown. Drake and other earlier privateer captains had merely traversed the Spanish tracks.

Dampier had no academic training and lacked the instruments which later explorers used. But his natural genius in bringing the methods of science into nautical discovery made easier the voyages of later countrymen, such as Anson, Byron (grandfather of the poet), Wallis, Carteret, and Cook.

Europeans and Americans have long been

fascinated by mental pictures of seductive trade winds, luxuriant vegetation, coral reefs, atolls and lagoons, an easygoing, indolent life, and a background of bold adventure, shipwreck, mutiny, and buccaneering.

But the Pacific is more than the South Seas of the laymen or the Oceania of the geographers!

A first glance at the map of even a small part of the myriad islands of the Pacific produces an effect of great confusion, but closer study reveals order and direction.

Island Stepping Stones to Asia

Not only has Asia projected itself southward toward the Antarctic in a series of island stepping stones, including the Netherlands Indies, New Guinea, the Solomons, New Caledonia, New Hebrides, and New Zealand, but also toward North America by means of Kamchatka and Siberia, Japan's Kurile, and America's Aleutian Island festoons.

The Pacific is not a tropical ocean only; it stretches into the Arctic and Antarctic. It knows fog and snow and ice as well as soft trade winds and waving coconut palms.

Tasman and other early captains of the Dutch East India Company had explored the Australian coast and had penetrated into Japanese and Siberian waters. But they found no gold or any mythical "Gama Land," and were vague about such land as they did see.

It remained for the captains of Peter the Great, father of modern Russia, and especially for Vitus Bering to reveal the land and water outlines of the North Pacific and to establish the important fact that Asia and America are separate continents.

Bering was born in Denmark, joined the Danish navy and later that of Russia, fighting in the war against Sweden. Russia had been pushing eastward through Siberia, but with no clear idea of direction.

However, Peter the Great, who added six provinces, outlets upon two oceans, a regular army, a fleet, a naval academy, and a new capital to his country, sought to give his Cossacks intelligent guidance.

He used Swedish prisoners of war to teach the Russians to build vessels, use nautical instruments, and make maps. Shortly before his death in 1725, he wrote out instructions in his own hand for Bering's voyage, not so much for the acquisition of territory as for scientific discovery.

Bering was instructed to sail from Kamchatka "along the shore which bears north-erly and which seems to be part of America" and to "determine where it joins with America."

Bering was most successful, geographically speaking. He discovered Alaska and part of the Aleutians, and definitely established the fact that Asia and America are separated by a narrow strait, later to bear his name. He found no Gama Land, but he discovered new wealth in vast numbers of valuable fur-bearing animals.

His second expedition suffered severely from scurvy, was lost for a long period, and had to take refuge on a desolate, uninhabited island between the Aleutians and Kamchatka, where he died in 1741. Survivors of the party reported their discoveries, and Siberian fur hunters were soon working eastward through the chain of islands to the mainland of America.

In this manner, Alaska came into the possession of Russia, not so much by design as by accident. Russia never really desired or needed it. Catherine the Great regarded it as a drain upon her navy and mercantile marine, preferring to have her subjects colonize Siberia. Therefore, she insisted that she would furnish the fur traders with "neither men, nor ships, nor money." And so her successors, influenced also by threatening international problems, were glad to cement friendship with the United States by selling Alaska as soon as the Civil War was out of the way.

Englishman Explores America's West Coast While Revolution Is Fought

Confirmation that Aleutian and Alaskan waters contained large numbers of fur-bearing animals came from the third of Captain Cook's exhaustive voyages of exploration in the Pacific, at about the time of the American Revolution.

James Cook was a farm laborer's son who, after working on a collier, joined the navy and showed ability at an early age. Sent to Canada to help Wolfe, he was rapid, accurate, and persistent in making surveys of the St. Lawrence River and Newfoundland coast.

In 1768 he was put in command of a scientific expedition to make astronomical observations in the South Seas, and added much land to the British Empire. He discovered New Caledonia and sailed around New Zealand, proving it to be an island and not part of a continent, as Tasman had supposed.

Cook did not discover Australia, but for all practical purposes he annexed it to the British Empire, just at the time that half of North America was being lost to the colonists.

His studies at Botany Bay, near Sydney, led to English settlement 18 years later, and he explored and named many points on the east coast, despite the dangers of the Great Barrier Reef.

On his second voyage Cook showed there was no Terra Australis Incognita. He searched for it in several different directions, being stopped by ice to the south.

It is possible that early Spanish navigators may have sighted the Hawaiian Islands, but Cook, on his third voyage, was the first European definitely to locate the group, naming them the Sandwich Islands in honor of a friendly earl.

The Spanish galleons had traveled to the north and south of the islands for 250 years, but the east-west elongation of the group preserved their solitude until Cook, making the first north-south voyage, intercepted them.

After leaving the islands, Cook tried in vain to find the long-sought-for Northwest Passage. He was unable to pass the ice barrier north of Bering Strait, and, after charting much of the northwestern American coast, returned to Hawaii to meet death at the hands of the natives.

Cook had a real advantage over earlier navigators in his roomier, sturdier, and better equipped ships, and even more in the greater knowledge of astronomy and navigation.

He also prepared for his voyages with a meticulous attention to detail unknown to previous explorers, although common enough for such moderns as Admiral Byrd.

He took a multitude of precautions in respect to food and water and, as a result, lost very few of his men from disease.

Scurvy had mowed down the crews of most previous explorers like a pestilence, affecting the whole course of exploration, colonization, commercial enterprise, mercantile shipping, and naval operations.

Sir John Hawkins, the great Elizabethan seaman, said that in his 20 years at sea scurvy killed 20,000 men in the British Navy.

Magellan lost most of his crews from the same cause, and on Lord Anson's trip around the world nearly two-thirds of the crews of his little squadron died from scurvy. This disease was for centuries the greatest single obstacle to discovery and exploration.

Protection against scurvy lay in potatoes, onions, cabbage, and fruit juices, especially lemon or lime juice, instead of the traditional diet of salt meat and biscuit.

Before medical officers of the British Navy finally compelled the general use of such foods, a few individual navigators had adopted them. In fact, Cook, finding his men did not care for sauerkraut, compelled his higher officers to eat large quantities of it, which made the men eager to have their share.

A Missionary Turns Explorer

Boston merchants became interested in Cook's reports of fur-bearing animals on the

northwest coast of America, especially as several men from the American Colonies had served on his ships. One of these was John Ledyard, who entered Dartmouth College to study as a missionary to the Indians, but could not endure the discipline.

He shipped as a sailor, deserted at Gibraltar, joined a British regiment, and later became a corporal of marines for Captain Cook, whose voyages, at the request of Benjamin Franklin, were left undisturbed by the French Navy during the American Revolution.

As a result of his voyage with Cook, Ledyard developed into an ardent advocate of the opening of the Northwest by his countrymen. Seeking to be an explorer on his own account, he attempted to walk across Siberia toward Alaska, and received Thomas Jefferson's approval. But the Empress Catherine refused permission. Later, when she was away, he got as far as Irkutsk before he was arrested.

He tried to walk across Africa, but, because of delay in starting the trip, fell into a violent rage and died.

Ledyard's dreams, however, were not long in becoming reality. About 1790 American sealers and whalers began rounding Cape Horn, and later roamed the Pacific in great numbers.

These Yankee captains were not in search of geographical knowledge for its own sake, but sailed on to Canton where they exchanged pelts for tea and silk for the return voyage.

Unlike many expeditions of other nations, their voyages had no government sponsorship, being wholly private enterprises.

Yet these Yankee captains discovered large numbers of islands and island groups which the explorers of other countries had overlooked.

First American Around the World

Capt. Robert Gray of Boston was the first American to circumnavigate the globe, sailing almost 42,000 miles in the process. A man of great energy, determination, and daring, he was the first navigator to enter and sail up the Columbia River, naming it after the ship he commanded. This was in 1792.

The promoter or agent for more than 70 of these fur-hunting expeditions was Capt. Edmund Fanning, who went to sea at the age of 14. Like many other South Sea captains, he came from the little port of Stonington, Connecticut.

Fanning was always hunting for new seal rookeries, for ruthless slaughter cleaned them out rapidly. From one voyage the owners made a net profit of \$53,118 on an investment of \$7,867, and Fanning received \$15,000. Not

all voyages were so successful; one captain and crew fell victims to Fiji cannibals.

Fanning discovered the island that bears his name, also Washington Island, and he nearly ran aground on a shoal near the Palmyra group. The latter is important in modern air transport.

Capt. Nathaniel B. Palmer, also of Stonington, became a cabin boy on a coaster at 14, and in 1819 as second mate he helped bring back 10,000 skins from the newly discovered South Shetlands, south of Cape Horn.

Next year he was sent farther south in command of a small sloop and discovered the Antarctic Continent. The barren, mountainous section he saw became known first as Palmer Land, then as Palmer Peninsula.

Later in life, Captain Palmer designed clipper ships, was an early member of the New York Yacht Club, owned 17 different yachts, and helped design the early Fall River steamers.

The American whaling industry had suffered severely in the Revolution and War of 1812, but got a superb fresh start in the Pacific. Americans held practically a monopoly on it for a hundred years.

In the 1830's and 1840's the industry reached its peak, with some 730 vessels—more than 300 from New Bedford, Massachusetts, alone—scouring the vast ocean from Kamchatka to the Antarctic for new grounds and employing many thousands of men.

This led to increasing demands for better charts of the Pacific, for there had been many wrecks, massacres by natives, and long, grueling voyages in open boats.

The Epic of Charles Wilkes

In his first message to Congress in 1825, President John Quincy Adams vainly urged a naval expedition "for the exploration of the whole northwest coast of this continent." It remained for a promoter, one Jeremiah N. Reynolds, to stir Congress into action.

Reynolds had been secretary to a commodore, had accompanied one adventurous voyage to the Antarctic, and as a special agent of the Navy had interviewed many sea captains and owners on South Sea conditions.

For 20 years he had had an imperial dream of "national glory," and desired to participate therein.

Finally Congress, under a deluge of petitions and memorials from Reynolds, voted funds for an expedition, but Reynolds started a bitter controversy with the Secretary of the Navy over the details of the proposed voyage and was not allowed to go along.

Because of bickering and delay, a considerable number of senior officers refused the com-

mand of the United States Exploring Expedition, and it was finally given to the youthful Lieut. (later Rear Admiral) Charles Wilkes.

Wilkes is one of the great figures of American history and exploration, but a strangely neglected one.

His expedition came at a time, 1838-1842, when westward expansion gripped the country. Gold was about to be discovered in California, and the slavery question was casting its shadow before; internal developments absorbed the people's attention.

But Wilkes' achievements constitute one of the proudest of American heritages.

Born in New York City, Wilkes was appointed a midshipman in the Navy. He studied under Ferdinand A. Hassler, the Swiss scientist who founded our Coast and Geodetic Survey.

Origin of the Naval Observatory and Hydrographic Office

With this training Wilkes was put in charge of the Depot of Charts and Instruments, out of which grew the Naval Observatory and the Hydrographic Office. Wilkes bought many astronomical instruments in Europe and built an observatory in this country.

During its four years in the Pacific, the Wilkes expedition made more than 100 charts, examined 280 islands, 800 miles of coast and inland waters in the Oregon Territory, and more than 1,500 miles of coast of the Antarctic Continent.

Wilkes was too late to discover many new islands in the Pacific, but he accurately fixed the position of a number of them for the first time. His charts continue to serve today as a basis for those of all nations.

Most of the islands which he surveyed were low coral reefs of Polynesia and Micronesia, in the central Pacific, not the great mountainous land masses of Melanesia in the western Pacific near Australia.

Upon arrival at an island, he would set up an astronomical station, and studies would also be made by his scientists of the geology, botany, history, government, commerce, and manners of the place.

Castaways and shipwrecked sailors were formally received, and trials held of native murderers of members of whaling crews.

Others had sighted a few short stretches of the Antarctic coastline before Wilkes, but he was the first to prove its continental character by observing more than 1,500 miles of coast.

In the Oregon Territory he made more extensive surveys than any previous explorer.

His scientific parties went up the Columbia River farther than Captain Gray, examined

the Grand Coulee, surveyed the Sacramento River to the site of the present city of that name, surveyed the northern part of San Francisco Bay, and made extensive overland expeditions, including one from the Columbia River past "Shaste Peak" to San Francisco.

Wilkes and his men are credited with having held the first public observance of July 4 on the Pacific coast.

Wilkes contributed importantly to our knowledge of gravity, terrestrial magnetism, and meteorology. Much of what we know today about climate is due to his studies in the Pacific.

The scientists who went with Wilkes brought back numbers of drawings and natural-history specimens, as well as vocabularies of different languages. There were some 2,000 drawings alone.

These collections formed the basis of the present United States National Museum and also the United States Botanic Garden in Washington, D. C. The Wilkes expedition plainly marked America's scientific coming of age.

Wilkes was a man of fiery temper and rash impetuosity, which often got him into trouble. But he had perseverance, decision, and driving energy, as well as indomitable courage.

He was a martinet and stern disciplinarian, but withal a scholar and scientist, and, despite his defects of temperament, a very real leader. The same scientist who said he was conceited and overbearing remarks that with no other commander "should we have fared better or lived together more harmoniously."

Wilkes had strong feelings on numerous subjects, ascribing the good health of his crew to the absence of spirituous liquor, which he said "does infinite harm to the service, destroying and sapping its morale."

Wilkes lived for many years in the Dolly Madison house in Washington, now part of the Cosmos Club, and is buried in Arlington National Cemetery.

The End of an Epoch

It is usual to say that Wilkes' expedition brought to an end the first great period of maritime discovery, with its emphasis upon finding new lands. Exploration today concerns itself more with climate and the ocean

itself, with its depth, temperature, currents, and floor.

Perhaps there are no new islands to be discovered in the Pacific, but as recently as July, 1937, the Navy gained much fresh knowledge of that mighty ocean in its fruitless search for Amelia Earhart.

In 1938 Richard Archbold, flying over New Guinea, discovered a valley which contained, according to his estimate, a population of 60,000, although it had probably never been seen before by white men.

The slow fighting in places like the Solomons and New Guinea testifies not only to the harsh and forbidding but also to the little-known character of the terrain.

No ocean as vast as the Pacific or with so many islands can fail to remain mysterious. The Philippines alone consist of 7,083 islands and islets, and much less important archipelagoes contain from 500 to 1,000 each.

Always the Pacific has been traversed by bold and brave men who dreamed great dreams, and often made them real. They are an illustrious company, these explorers of the Pacific, these men who have given us so much of the world as we know it today.

From Wilkes to Byrd

But to an American the inspiring coincidence is that it was 100 years later to the very month that Rear Adm. Richard E. Byrd, on his third Antarctic expedition, and the second to that area sponsored by the United States Government, completed what Wilkes started. Either man could say, as Wilkes did after returning from his voyage:

"I shall always have the proud and conscientious feeling of having done my duty; and that I have carried the moral influence of our country wherever our flag has waved."

Wilkes demonstrated the continental character of the Antarctic in January and February, 1840. Byrd, after long experience in North Polar expeditions and two previous expeditions to the Antarctic, in January and February of 1940 discovered five new mountain ranges, five new islands, a large peninsula, 700 miles of hitherto unknown coast, and explored 100,000 square miles in the Antarctic.

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 Kangean, island, (Neth. Indies)... H5
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 Kauai, island, (Hawaiian Is.)... E14
 Kauai Channel (Hawaiian Is.)... E14
 Kau Desert (Hawaii, Hawaiian Is.)... Inset 12
 Kauiki Head (Maui, Hawaiian Is.)... Inset 12
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 Kaulakahi Channel (Hawaiian Is.)... Inset 12
 Kauna Point (Hawaii, Hawaiian Is.)... Inset 12
 Kavata, Motu, *Kotawa*, (Danger Is., Line Is.)... Inset 46
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 Kawasak Passage (Palau Is., Caroline Is.)... Inset 5
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 Keahi Point (Oahu, Hawaiian Is.)... Inset 13
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 Keahuua (Maui, Hawaiian Is.)... Inset 12
 Kealaikahiki Channel (Hawaiian Is.)... Inset 12
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Kerulen (Outer Mongolia) . . . C5
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 Khandwa (India) . . . E1
 Khanka, Ozero (U. S. S. R.) . . . C7
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 Khonichi (Outer Mongolia) . . . C4
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 Khormusu (Outer Mongolia) . . . C4
 Kia (Solomon Is.) . . . H9
 Kia, island, (Fiji Is.) . . . Inset 1
 Kiachta, *Altan Bulak*, (Outer Mongolia) . . . B-C4
 Kiamusze (Manchuria) . . . C6-7
 Kian (China) . . . E5
 Kiangling (China) . . . D4-5
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 Kichiga (U. S. S. R.) . . . B10
 Kidd Point (Tutuila, Samoa Is.) . . . Inset 16
 Kienko (China) . . . D4
 Kienow (China) . . . E5
 Kienteh (China) . . . E5-6
 Kieta (Solomon Is.) . . . H9
 Kihei (Maui, Hawaiian Is.) . . . Inset 12
 Kiholo (Hawaii, Hawaiian Is.) . . . Inset 12
 Kihien (China) . . . D5
 Kii (Niuhau, Hawaiian Is.) . . . Inset 12
 Kikori (Papua, New Guinea) . . . H8
 Kilauaea (Kauai, Hawaiian Is.) . . . Inset 12
 Kilauaea Crater (Hawaii, Hawaiian Is.) . . . Inset 12
 Kili, island, (Marshall Is.) . . . G10
 Kilinailau, islands, (S. Pacific Ocean) . . . H9
 Kimba (S. Austral., Austral.) . . . L7
 Kimbe Bay (New Britain, Bismarck Arch.) . . . Inset 2
 Kinabalu, peak, (N. Borneo) . . . G5
 Kinadyeng, island, (Jaluit Atoll, Marshall Is.) . . . Inset 23
 King, island, (Austral.) . . . L-M8
 Kingaroy (Queensland, Austral.) . . . K9
 King George Sound (W. Austral., Austral.) . . . L5-6
 King Island (Bering Strait) . . . A13
 Kingman Reef (Line Is.) . . . G13-14
 Kingpeng (Manchuria) . . . C5
 Kingsmill Group (Gilbert Is.) . . . H11
 Kings Peak (U. S.) . . . C18-19
 King Sound (W. Austral., Austral.) . . . J6
 Kingston (Jam.) . . . F22
 Kingston (N. Z.) . . . M10-11
 Kingston (Ont., Can.) . . . C22
 Kingston (S. Austral., Austral.) . . . L7
 Kingyung (China) . . . D4
 Kinwa (China) . . . E5-6
 Kintore, peak, (N. Territory, Austral.) . . . K6-7
 Kia, island, (Fiji Is.) . . . Inset 1
 Kipahulu (Maui, Hawaiian Is.) . . . Inset 12
 Kirakira (Solomon Is.) . . . J10
 Kirenkaan, island, (Wotje Atoll, Marshall Is.) . . . Inset 24

Kirensk (U. S. S. R.) . . . B4
 Kirin, Yungki, (Manchuria) . . . C6
 Kisar, island, (Neth. Indies) . . . Inset 18
 Kisen (Chosen) . . . C6
 Kiska, island, (Aleutian Is.) . . . B11
 Kiska Harbor (Kiska, Aleutian Is.) . . . Inset 9
 Kistna, river, (India) . . . F1
 Kita Iwo Jima (Kazan Retto) . . . E8
 Kitashiretoko Misaki (Karafuto) . . . C8
 Kiti Point (Ponape I., Caroline Is.) . . . Inset 6
 Kiu-kiang (China) . . . E5
 Kiungshan (China) . . . F5
 Kiyalik (Alaska) . . . A13
 Klamath Falls (U. S.) . . . C17-18
 Klunak (Yukon, Can.) . . . A16
 Knoxville (U. S.) . . . D21
 Kobe (Honshu, Japan) . . . D7
 Kobushi Saki (Ani Jima, Ogasawara Shotu) . . . Inset 20
 Kodiak (Alaska) . . . B14
 Kodiak Island (Alaska) . . . B14
 Koe, Motu (Danger Is., Line Is.) . . . Inset 46
 Koemai (Borneo) . . . H4-5
 Koepang (Neth. Indies) . . . J6
 Koetaradja (Sumatra) . . . G3
 Kogaiung (Alaska) . . . B14
 Kohala (Hawaii, Hawaiian Is.) . . . Inset 12
 Kohala, district, (Hawaii, Hawaiian Is.) . . . Inset 12
 Kohama Saki (Ototo Jima, Ogasawara Shotu) . . . Inset 20
 Kohima (India) . . . E3
 Kojo (Chosen) . . . D6
 Kokoda (Papua, New Guinea) . . . H8
 Kokole Point (Kauai, Hawaiian Is.) . . . Inset 12
 Koko Nor (China) . . . D4
 Kokopo (Bismarck Arch.) . . . H9
 Kolbano (Timor, Neth. Indies) . . . Inset 18
 Koloa (Kauai, Hawaiian Is.) . . . Inset 12
 Kolombangara, island, (Solomon Is.) . . . H9
 Kolpakovo (U. S. S. R.) . . . B9
 Kolyma, river, (U. S. S. R.) . . . A9
 Kolymski Khrebet (U. S. S. R.) . . . A9-10
 Komandorskije, Ostrova (U. S. S. R.) . . . B10
 Komo, island, (Fiji Is.) . . . Inset 1
 Komolos (New Ireland, Bismarck Arch.) . . . Inset 2
 Kompongthom (Fr. Indochina) . . . F4
 Komsomolsk (U. S. S. R.) . . . B7
 Kona, district, (Hawaii, Hawaiian Is.) . . . Inset 12
 Konahuanui Peak (Oahu, Hawaiian Is.) . . . Inset 13
 Kone (New Caledonia) . . . K10
 Kontum (Fr. Indochina) . . . F4
 Koolatah (Queensland, Austral.) . . . J8
 KOREA, CHOSEN . . . D6-7
 Koriteh (Outer Mongolia) . . . C4
 Koro, island, (Fiji Is.) . . . Inset 1
 Koror (Caroline Is.) . . . G7
 Koro Sea (Fiji Is.) . . . Inset 1
 Koryakski Khrebet (U. S. S. R.) . . . A10-11
 Kosciusko, peak, (New S. Wales, Austral.) . . . L8
 Koshan (Manchuria) . . . C6
 Koshiki Retto (Japan) . . . D6
 Koshu (Chosen) . . . D6
 Koso Gol (Outer Mongolia) . . . B4
 Kossol Passage (Palau Is., Caroline Is.) . . . Inset 5
 Kossol Reef (Palau Is., Caroline Is.) . . . Inset 5
 Kotabaroe (Borneo) . . . H5
 Kota Bharu (Malay States) . . . G4
 Kotabu, *Entrance Island*, (Makin Atoll, Gilbert Is.) . . . Inset 26

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Kotawa, Motu Kavata, (Danger Is., Line Is.) . . . Inset 46
 Kotlik (Alaska) . . . A13
 Koyukuk, river, (Alaska) . . . A14
 Kozlova, Mys (U. S. S. R.) . . . B10
 Kra, Isthmus of (Thai.) . . . F-G3-4
 Krabi (Thai.) . . . G3
 Krakatau, island, (Neth. Indies) . . . H4
 Krasnoe, Ozero (U. S. S. R.) . . . A11
 Kratie (Fr. Indochina) . . . F4
 Kresta, Zaliv (U. S. S. R.) . . . A12
 Kresta Point (Attu, Aleutian Is.) . . . Inset 8
 Kroeel (Sumatra) . . . H4
 Krummel Deep (S. Pacific Ocean) . . . J22
 Kuala Lumpur (Malay States) . . . G4
 Kuala Trengganu (Malay States) . . . G4
 Kuantan (Malay States) . . . G4
 Kuching (Sarawak) . . . G4-5
 Kudat (N. Borneo) . . . G5
 Kuibyshevka (U. S. S. R.) . . . B6-7
 Kuji (Honsku, Japan) . . . C8
 Kujira Saki (Chichi Jima, Ogasawara Shotu) . . . Inset 20
 Kujira Wan (Paramushiro I., Chishima) . . . Inset 7a
 Kukuihaele (Hawaii, Hawaiian Is.) . . . Inset 12
 Kuku Point (Wake I., N. Pacific Ocean) . . . Inset 11
 Kula Gulf (New Georgia I., Solomon Is.) . . . Inset 3
 Kulamadau (Woodlark I., S. Pacific Ocean) . . . H9
 Kuluk Bay (Aleutian Is.) . . . B12
 Kuma (Makin Atoll, Gilbert Is.) . . . Inset 26
 Kumamoto (Kyushu, Japan) . . . D7
 Kumara, island, (Soloman Is.) . . . Inset 3
 Kumukahi, Cape (Hawaii, Hawaiian Is.) . . . Inset 12
 Kunashiri Jima (Chishima) . . . C8
 Kungava Bay (Rennell I., Solomon Is.) . . . Inset 3
 Kunming, *Yunnanfu*, (China) . . . E4
 Kunua (Bougainville I., Solomon Is.) . . . Inset 3
 Kuop Islands (Caroline Is.) . . . G9
 Kupikipikio Point (Oahu, Hawaiian Is.) . . . Inset 13
 Kupindal (New Britain, Bismarck Arch.) . . . Inset 2
 Kurabu Zaki (Paramushiro I., Chishima) . . . Inset 7a
 Kure (Honshu, Japan) . . . D7
 Kure, *Ocean*, island, (Hawaiian Is.) . . . E12
 Kuria, island, (Gilbert Is.) . . . G-H11
 Kurile Islands, Chishima, (Japan) . . . C8-9
 Kurnool (India) . . . F1
 Kuro Saki (Ototo Jima, Ogasawara Shotu) . . . Inset 20
 Kurunegala (Ceylon) . . . G1-2
 Kusae, island, (Caroline Is.) . . . G10
 Kushiho (Hokkaido, Japan) . . . C8
 Kuskokwim, river, (Alaska) . . . A13-14
 Kuskokwim Bay (Alaska) . . . B13
 Kutsing (China) . . . E4
 Kwajalein (Kwajalein Atoll, Marshall Is.) . . . Inset 22
 Kwajalein, island, (Marshall Is.) . . . G10
 Kwangchowan (China) . . . E5
 Kwanshien (China) . . . D4
 Kwantung (China) . . . D6
 Kweilin (China) . . . E5
 Kweisui (China) . . . C5
 Kweiying (China) . . . E4
 Kwinhagak (Alaska) . . . B13-14
 Kyakhta (U. S. S. R.) . . . B4
 Kyaukpyu (Burma) . . . F3
 Kyoto (Honshu, Japan) . . . D7
 Kyushu, island, (Japan) . . . D7

Lautoka (Viti Levu, Fiji Is.) . . . Inset 1
 Lauvergne, island, (Truk Is., Caroline Is.) . . . Inset 4
 Lavapié, Punta (Chile) . . . L22
 Laverton (W. Austral., Austral.) . . . K6
 Lavongai (New Hanover, Bismarck Arch.) . . . Inset 2
 Lavongai, New Hanover, island, (Bismarck Arch.) . . . Inset 2
 Lawlers (W. Austral., Austral.) . . . K5-6
 Laysan, island, (Hawaiian Is.) . . . E12
 Lebu (Chile) . . . L22
 Legaspi (Philippines) . . . F6
 Lehua, island, (Hawaiian Is.) . . . Inset 12
 Leili, island, (Solomon Is.) . . . Inset 3
 Leloaloe (Tutuila, Samoa Is.) . . . Inset 17
 Lelogama (Timor, Neth. Indies) . . . Inset 18
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 Levuka (Ovalau I., Fiji Is.) . . . Inset 1
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 Leyte, island, (Philippines) . . . F6
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 Liard, river, (N. W. T., Can.) . . . A17
 Lib, island, (Marshall Is.) . . . G10
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 Lifu, island, (Loyalty Is.) . . . K10
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 Lihir, island, (Bismarck Arch.) . . . H9
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 Lijeron, island, (Jaluit Atoll, Marshall Is.) . . . Inset 23
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 Likiep, island, (Marshall Is.) . . . F-G10
 Lilian Point (Ocean I., Gilbert Is.) . . . Inset 33
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 Lincoln (U. S.) . . . C20
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 Lingga Archipel (Neth. Indies) . . . G-H4
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Linho (China) . . . C4
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 Liquica (Port. Timor) . . . Inset 18
 Lishui (China) . . . E5-6
 Lisianski, island, (Hawaiian Is.) . . . E12
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 Little Kiska, island, (Kiska, Aleutian Is.) . . . Inset 9
 Little Makin, island, (Gilbert Is.) . . . G11
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 Little Rock (U. S.) . . . D20
 Little Sitkin, island, (Aleutian Is.) . . . B11-12
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 Lloyd Bay (Queensland, Austral.) . . . J8
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 Lokchong (China) . . . E5
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 Loluei Point (Bougainville I., Solomon Is.) . . . Inset 3
 Lomaloma (Vanua Mbalavu, Fiji Is.) . . . Inset 1
 Lomawai (Viti Levu, Fiji Is.) . . . Inset 1
 Lombok, island, (Neth. Indies) . . . H6
 London (Christmas I., Line Is.) . . . Inset 31
 London Reefs (S. China Sea) . . . G5
 Long Beach (U. S.) . . . D17-18
 Longiram (Borneo) . . . H5
 Long Island (Caroline I., Line Is.) . . . Inset 50
 Long Island (N.-E. New Guinea, New Guinea) . . . H8
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 Longnawan (Borneo) . . . G5
 Longreach (Queensland, Austral.) . . . K8
 Longxuyen (Fr. Indochina) . . . F-G4
 Lopatka, Mys (U. S. S. R.) . . . B9
 Lopeh (Manchuria) . . . C6-7
 Lord Howe Island (Santa Cruz Is.) . . . J10
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 Louise, Lake (Alta., Can.) . . . B18
 Louisiade Archipelago (S. Pacific Ocean) . . . J9
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Lungchen (Manchuria) . . . C6
 Lungchow (China) . . . E4
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 Lungkiang, *Tsitsihar*, (Manchuria) . . . C6
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 Lupin, *Manchouli*, (Manchuria) . . . C5
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Macau (China) . . . E5
 Macaulay, island, (Kermadec Is.) . . . K-L12
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 Macdonald, Lake (Austral.) . . . K6-7
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 Madoera, island, (Neth. Indies) . . . H5
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 Madre Occidental, Sierra (Mex.) . . . E18-19
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 Maewo, island, (New Hebrides) . . . J10
 Magadan (U. S. S. R.) . . . A-B9
Magallanes, Punta Arenas, (Chile) . . . N22
 Magdagachi (U. S. S. R.) . . . B6
 Magdalena, river, (Col.) . . . G22
 Magdalena, Bahía (Mex.) . . . E18
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 Magellan, Strait of (Chile) . . . N22
 Mago Jima (Ogasawara Shotu) . . . Inset 20
 Magur, island, (Caroline Is.) . . . K14
 Mangan (China) . . . C5
 Mangareva, island, (Tuamotu Arch.) . . . K16
 Mango, island, (Fiji Is.) . . . Inset 1
 Mangonui (N. Z.) . . . L11
 Manih, island, (Tuamotu Arch.) . . . J15
 Manihiki, island, (S. Pacific Ocean) . . . J13
 Manila (Philippines) . . . F6
 Manipa, Straat (Neth. Indies) . . . H6
 Manipur, river, (Burma) . . . E3
 Manitoba, province, (Can.) . . . B19-20
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 Mannar, Gulf of (Ceylon-India) . . . G1
 Manning Strait (Santa Isabel I., Solomon Is.) . . . Inset 3
 Manokwari (New Guinea) . . . G-H7
 Mant Harbor (Ponape I., Caroline Is.) . . . Inset 6
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 Manu, island, (Suvarov Atoll, Line Is.) . . . Inset 45
 Manua Islands (Samoa) . . . J13
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Mapia Eilanden, *Saint David Islands*, (Neth. Indies)...G7
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 Marañon, river, (Peru)...H22
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 Marokau, island, (Tuamotu Arch.)...J15
 Maro Reef (Hawaiian Is.)...E12
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 Maruen Wan (Chichi Jima, Ogasawara Shoto)...Inset 20
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 Marunga Harbour (San Cristóbal I., Solomon Is.)...Inset 3
 Marutéa, island, (Tuamotu Arch.)...K16
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 Masisea (Peru)...H22
 Massacre Bay (Attu, Aleutian Is.)...Inset 8
 Massacre Bay (Tutuila, Samoa Is.)...Inset 16
 Massett (Queen Charlotte Is., Can.)...B16
 Masterton (N. Z.)...M11
 Masulipatam (India)...F2
 Matafao, peak, (Tutuila, Samoa Is.)...Inset 16
 Matahiva, island, (Tuamotu Arch.)...J15
 Matai, peak, (Tutuila, Samoa Is.)...Inset 17
 Matala, island, (Nukulaelae Atoll, Ellice Is.)...Inset 29
 Matamoros (Mex.)...E20
 Matanalem, Cape (New Hanover, Bismarck Arch.)...Inset 2

Matanatamberan, Cape (New Ireland, Bismarck Arch.)...Inset 2
 Matane (Que., Can.)...C23
 Matangi, island, (Fakaofu Atoll, Tokelau Is.)...Inset 41
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 Matatula, Cape (Tutuila, Samoa Is.)...Inset 16
 Mataulanga, island, (Nukunono Atoll, Tokelau Is.)...Inset 39
 Matautu, island, (Nukunono Atoll, Tokelau Is.)...Inset 39
 Mateika, island, (Funafuti Atoll, Ellice Is.)...Inset 30
 Mathuwa, island, (Fiji Is.)...Inset 1
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 Matuku, island, (Fiji Is.)...Inset 1
 Matuu (Tutuila, Samoa Is.)...Inset 16
 Mau, island, (Marianas Is.)...E-F8
 Maui, island, (Hawaiian Is.)...E14
 Mauke, island, (Cook Is.)...K14
 Mauna Kea, peak, (Hawaii, Hawaiian Is.)...Inset 12
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 Maupiti, island, (Society Is.)...J14
 Maya, river, (U. S. S. R.)...B7
 Mayo Landing (Yukon, Can.)...A16
 Mazatlán (Mex.)...E19
 Mba (Viti Levu, Fiji Is.)...Inset 1
 Mbatiki, island, (Fiji Is.)...Inset 1
 Mbengga, island, (Fiji Is.)...Inset 1
 Mbua Bay (Vanua Levu, Fiji Is.)...Inset 1
 Mbuakatanoa Reef (Fiji Is.)...Inset 1
 Mbulia, island, (Fiji Is.)...Inset 1
 McDonnell (Queensland, Austral.)...J7-8
 McGrath (Alaska)...A14
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 Meck, island, (Kwajalein Atoll, Marshall Is.)...Inset 22
 Medan (Sumatra)...G3
 Medellín (Col.)...G22
 Medford (U. S.)...C17
 Medicine Hat (Alta., Can.)...B18
 Medinilla, island, (Marianas Is.)...F8
 Medny, Ostrov (U. S. S. R.)...B10
 Medyado, island, (Jaluit Atoll, Marshall Is.)...Inset 23
 Medyad, island, (Jaluit Atoll, Marshall Is.)...Inset 23
 Meekatharra (W. Austral., Austral.)...K5
 Méhétiá, island, (Society Is.)...J15
 Meichen, island, (Wotje Atoll, Marshall Is.)...Inset 24
 Mejjato, island, (Kwajalein Atoll, Marshall Is.)...Inset 22
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Mekong, river, (China-Fr. Indochina)...F4
 Melanesia, islands, (N. & S. Pacific Oceans)...G-J7-11
 Melbourne (Victoria, Austral.)...L8
 Melekeik (Palau Is., Caroline Is.)...Inset 5
 Mellish Reef (Coral Sea)...J9
 Melli Channel (Kwajalein Atoll, Marshall Is.)...Inset 22
 Melville, Cape (Queensland, Austral.)...J8
 Melville Island (N. Territory, Austral.)...J7
 Memphis (U. S.)...D20-21
 Menaen (Nauru, S. Pacific Ocean)...Inset 19
 Me Nam, river, (Thai)...F3-4
 Mendocino, Cape (U. S.)...C17
 Mendoza (Arg.)...L23
 Menge, island, (Jaluit Atoll, Marshall Is.)...Inset 23
 Mengtsh (China)...E4
 Mentawai Eilanden (Neth. Indies)...H3
 Menza (U. S. S. R.)...C4-5
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 Mera Lava, island, (New Hebrides)...J10-11
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 Mercedario, peak, (Arg.)...L22-23
 Mergui (Burma)...F3
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 Mérida (Mex.)...E20-21
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 Merig, island, (New Hebrides)...J10
 Merir, island, (Caroline Is.)...G7
 Merizo (Guam, Marianas Is.)...Inset 10
 Merkus, Cape (New Britain, Bismarck Arch.)...Inset 2
 Mesegon, island, (Truk Is., Caroline Is.)...Inset 4
 Mess (New Ireland, Bismarck Arch.)...Inset 2
 Meta, river, (Col.-Venez.)...G23
 Metalanim Harbor (Ponape I., Caroline Is.)...Inset 6
 Meulaboh (Sumatra)...G3
 Mexicali (Mex.)...D18
 MEXICO...E-F19-20
 México, Altiplanicie de (Mex.)...E19
 México, D. F. (Mex.)...F19-20
 Mexico, Gulf of...E20-21
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 Miangas, *Palmis*, island, (Neth. Indies)...G6
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 Micronesia, islands, (South Pacific Ocean)...F-H7-11
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 Middle Ground, island, (Midway Is., Hawaiian Is.)...Inset 14
 Middle Lake (Oahu, Hawaiian Is.)...Inset 13
 Middleton, island, (Alaska)...B15
 Middleton Reef (S. Pacific Ocean)...K9-10
 Midnapore (India)...E2
 Midway Islands (Hawaiian Is.)...E11-12
 Mikayeri Yama (Ani Jima, Ogasawara Shoto)...Inset 20
 Mildura (Victoria, Austral.)...L8
 Mil Entrance (Yap, Caroline Is.)...Inset 7
 Miles City (U. S.)...C19
 Milli, island, (Marshall Is.)...G11
 Milkovo (U. S. S. R.)...B9-10
 Milne Bay (Papua, New Guinea)...J9
 Milne Edwards Deep (S. Pacific Ocean)...J21-22
 Milolii (Hawaii, Hawaiian Is.)...Inset 12
 Milparinka (New S. Wales, Austral.)...K8
 Milwaukee (U. S.)...C20-21

Minami Iwo Jima (Kazan Retto)...E8
 Minami Jima (Chichi Jima, Ogasawara Shoto)...Inset 20
 Minami Saki (Chichi Jima, Ogasawara Shoto)...Inset 20
 Minamitori Shima, *Marcus*, (N. Pacific Ocean)...E9
 Minatitlán (Mex.)...F20
 Minbu (Burma)...E-F3
 Mindanao, island, (Philippines)...G6
 Mindanao Deep (N. Pacific Ocean)...G6-7
 Mindoro, island, (Philippines)...F5-6
 Minhow, *Foochow*, (China)...E6
 Minhsien (China)...D4
 Minneapolis (U. S.)...C20
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 Minya Konka (China)...E4
 Misoöl, island, (Neth. Indies)...H7
 Mississippi, river, (U. S.)...D20
 Missoula (U. S.)...C18
 Missouri, river, (U. S.)...C20
 Mistassini, Lake (Que., Can.)...B-C22-23
 Mitchell (Queensland, Austral.)...K8
 Mitchell, Mount (U. S.)...D21-22
 Mitchell River (Queensland, Austral.)...J7-8
 Mitiaro, island, (Cook Is.)...K14
 Mitre Island (Santa Cruz Is.)...J11
 Mitsugo Jima (Izu Shichito)...D8
 Moa, island, (Neth. Indies)...H6
 Moala, island, (Fiji Is.)...Inset 1
 Moanalua (Oahu, Hawaiian Is.)...Inset 13
 Mobile (U. S.)...D20-21
 Mochis (Mex.)...E19
 Moen, island, (Truk Is., Caroline Is.)...Inset 4
 Moena, island, (Neth. Indies)...H6
 Moeting (New Guinea)...H8
 Mogfog (Guam, Marianas Is.)...Inset 10
 Mogocho (U. S. S. R.)...B5
 Moho (Manchuria)...B6
 Mohomero, peak, (Java)...H5
 Moiliili (Oahu, Hawaiian Is.)...Inset 13
 Moji (Kyushu, Japan)...D7
 Mokuau Islands (Hawaiian Is.)...Inset 13
 Mokil, island, (Caroline Is.)...G9-10
 Mokuo Islands (Hawaiian Is.)...Inset 13
 Mollendo (Peru)...J22
 Moli, island, (Hawaiian Is.)...E14
 Moluccas, islands, (Neth. Indies)...G-H6
 Moluksche Zee (Neth. Indies)...G-H6
 Momi (Viti Levu, Fiji Is.)...Inset 1
 Mondy (U. S. S. R.)...B4
 Mono, island, (Treasure Is., Solomon Is.)...Inset 3
 Montague, island, (Alaska)...B15
 Montagu Harbour (New Britain, Bismarck Arch.)...Inset 2
 Monterey (U. S.)...D17
 Monterey (Mex.)...E19-20
 Montgomery (U. S.)...D21
 Monto (Queensland, Austral.)...K9
 Montpellier (U. S.)...C22
 Montreal (Que., Can.)...C22
 Monywa (Burma)...E3
 Moore, Lake (W. Austral., Austral.)...K5
 Mooréa, island, (Society Is.)...J14
 Moose Jaw (Sask., Can.)...B-C19

Mopélia, island, (Society Is.)...J14
 Moppo (Chosen)...D6
 Moquegua (Peru)...J22
 Mor, island, (Truk Is., Caroline Is.)...Inset 4
 Morané, island, (Tuamotu Arch.)...Inset 6
 Muya (U. S. S. R.)...B5
 Myakit (U. S. S. R.)...A9
 Myingyan (Burma)...E3
 Myitkyina (Burma)...E3
 Mysore (India)...F1
 Mytho (Fr. Indochina)...F-G4

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Na, island, (Ponape I., Caroline Is.)...Inset 6
 Nabesna (Alaska)...A15
 Nabire (New Guinea)...H7
 Nabuni, island, (Makin Atoll, Gilbert Is.)...Inset 26
 Nabuto Bay (New Ireland, Bismarck Arch.)...Inset 2
 Naga (Philippines)...F6
 Nagaevoo, Bukhta (U. S. S. R.)...B8-9
 Nagai, island, (Alaska)...B14
 Nagaiwa Zaki (Paramushiro I., Chishima)...Inset 7a
 Nagasaki (Kyushu, Japan)...D6
 Nagor Rajasima (Thai)...F4
 Nagoya (Honshu, Japan)...D7
 Nagpur (India)...E1
 Naikllioe (Timor, Neth. Indies)...Inset 18
 Nairai, island, (Fiji Is.)...Inset 1
 Naitamba, island, (Fiji Is.)...Inset 1
 Nakalele Point (Maui, Hawaiian Is.)...Inset 12
 Nakanai Mountains (New Britain, Bismarck Arch.)...Inset 2
 Nake Island (Caroline I., Line Is.)...Inset 50
 Nakhodka (U. S. S. R.)...C7
 Naknek (Alaska)...B14
 Naknek Lake (Alaska)...B14
 Nalmedj, island, (Jaluit Atoll, Marshall Is.)...Inset 23
 Nama, island, (Caroline Is.)...G9
 Namai Bay (Palau Is., Caroline Is.)...Inset 5
 Namatanai (Bismarck Arch.)...H8-9
 Nambour (Queensland, Austral.)...K9
 Nambouwalu (Vanua Levu, Fiji Is.)...Inset 1
 Nambung (New Britain, Bismarck Arch.)...Inset 2
 Namlea (Neth. Indies)...H6
 Namoka, island, (Makin Atoll, Gilbert Is.)...Inset 26
 Namoluk, island, (Caroline Is.)...G9
 Namonuito Islands (Caroline Is.)...G9
 Namorik, island, (Marshall Is.)...G10
 Namu, island, (Marshall Is.)...G10
 Namuka-i-Lau, island, (Fiji Is.)...Inset 1
 Namur, island, (Kwajalein Atoll, Marshall Is.)...Inset 22
 Nanango (Choiseul I., Solomon Is.)...Inset 3
 Nanchang (China)...E5
 Nancheng (China)...D4
 Nandarivatu (Viti Levu, Fiji Is.)...Inset 1
 Nantok (Neth. Indies)...H4
 Nanyang (Fr. Indochina)...E4
 Nandison, river, (W. Austral., Austral.)...K5
 Nandihiti, island, (Manihiki Atoll, Line Is.)...Inset 44
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 Murray, river, (Austral.)...L7-8
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Muskogee (U. S.)...D20
 Mussau, island, (Bismarck Arch.)...H8
 Mutanu, island, (Tongareva Atoll, Line Is.)...Inset 42
 Mutok Harbor (Ponape I., Caroline Is.)...Inset 6
 Muya (U. S. S. R.)...B5
 Myakit (U. S. S. R.)...A9
 Myingyan (Burma)...E3
 Myitkyina (Burma)...E3
 Mysore (India)...F1
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Na, island, (Ponape I., Caroline Is.)...Inset 6
 Nabesna (Alaska)...A15
 Nabire (New Guinea)...H7
 Nabuni, island, (Makin Atoll, Gilbert Is.)...Inset 26
 Nabuto Bay (New Ireland, Bismarck Arch.)...Inset 2
 Naga (Philippines)...F6
 Nagaevoo, Bukhta (U. S. S. R.)...B8-9
 Nagai, island, (Alaska)...B14
 Nagaiwa Zaki (Paramushiro I., Chishima)...Inset 7a
 Nagasaki (Kyushu, Japan)...D6
 Nagor Rajasima (Thai)...F4
 Nagoya (Honshu, Japan)...D7
 Nagpur (India)...E1
 Naikllioe (Timor, Neth. Indies)...Inset 18
 Nairai, island, (Fiji Is.)...Inset 1
 Naitamba, island, (Fiji Is.)...Inset 1
 Nakalele Point (Maui, Hawaiian Is.)...Inset 12
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