

VOLUME

P-Phil pages 1-262

Compton's Encyclopedia

and Fact-Index

1987 EDITION COMPTON'S ENCYCLOPEDIA

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EXPLORING COMPTON'S—VOLUME 18

What Pacific island was settled by mutineers from the *Bounty*? 15.

What country was the Holy Land of three religions? 80.

How did the Latin Quarter of Paris get its name? 122.

Which prime minister of Canada received the Nobel peace prize? 150.

In what large city is some mail delivered within about an hour through pneumatic tubes? 120.

What animals have been displayed in circus sideshows as the "the world's largest rats"? 1.

What materials served as the first paints? 72.

Why did the attempts by a French company to build an Atlantic-Pacific canal end in failure? 92.

Which brothers were the first artists to make use of "atmosphere" in their paintings? 30.

Who was the "uncrowned king of Ireland" who lost his party leadership because of a notorious divorce case? 133.

In what respect was the government of the Canal Zone unique? 95.

At what period in the history of the world were the poor paid to enjoy music and drama? 205.

What gem is actually the deposit of a sick mollusk? 148.

What body of water holds half the water on the earth? 1.

According to Greek legend, who was the first woman on earth? 97.

Which species of parrot can be most easily taught to talk? 135.

What popular nut is really an annual herb? 146. Who were the "Sons of Liberty"? 107.

In the petroleum industry, what is the "Christmas tree"? 237.

What bird has a bony crest that, after the breeding season, drops off like a deer's antlers? 156.

In what national assembly is it a serious offense for a member to lock a door? 131.

How long a line can be drawn by the graphite in the average pencil? 158-9.

How is the growth of barnacles on the bottom of ship hulls prevented? 73.

What disease, considered a minor ailment, killed Pacific islanders by the thousands? 2.

For what purpose were the first parks in New England originally used? 125.

What is the tinikling? 258.

How many pounds of rose petals are needed to produce one pound of rose oil? 204.

What minerals are obtained from the Dead Sea? 81.

What tiny desert kingdom defied the Roman Empire? 84.

How long does a patent right last? 139.

What gives the palm tree its name? 81.

How should a pet rabbit be picked up? 243.

Why are pears usually picked before they are ripe? 147.

What great musician became premier of Poland? 20.

Why is the Pacific bluer than the Atlantic? 2.

Which United States president was also a governor of the Philippines? 259d.

Which renowned physician-chemist reportedly was killed when he was thrown from a window? 108.

Where was the crossroads of the New World? 85.Which European city is often called the City of Light? 117.

Who was "Old Blood and Guts"? 141.

What canal is called the "Big Ditch"? 87.

How did Col. William Gorgas end the malaria and yellow fever epidemics in Panama? 93.

Must a member of the Peace Corps be a college graduate? 143.

What large city in Pennsylvania was named for a Biblical city in Asia Minor? 250.

What bird has a hundred eyes? 146.

According to legend, what saint induced snakes and toads to fling themselves into the sea? 140.

How did an island in Gatun Lake, Panama, become a natural reservation? 94.

Why did Emperor Napoleon III order the building of wide streets in Paris? 123.

Are valuable pearls ever found in the common edible oyster? 148-9.

"Bulls" and "briefs" are unique to the Vatican. What are they? 100.

What parasite invaded the Great Lakes and killed large numbers of lake trout? 114.

May women be admitted to membership in the House of Lords of the British Parliament? 131a. What are the differences between a passport and

a visa? 137.

What ancient people first made paper? 100.

Why has the penguin lost its power of flight? 162. What is the process of painting on wet plaster called? How is it done? 67h.

How may a person obtain a United States passport if he has no documentary identification? 137.

Does the law permit a pharmacist to prescribe a drug? 248a.

Are black pepper and white pepper made from the same berry? 197.



In what sea battle did the Greeks defeat the Persians, thereby saving Europe from Asian conquest? 215.

Name the two popes who, as cardinals, visited the United States and received honorary degrees from the University of Notre Dame. 142a.

Why are London policemen often called "bobbies"? 152.

KEY TO PRONUNCIATION



Pronunciations have been indicated in the body of this work only for words which present special difficulties.

Marked letters are sounded as in the following words: $c\bar{a}pe, \ \check{a}t, \ f\ddot{a}r, \ f\ddot{a}st, \ what, \ fall; \ m\bar{e}, \ y\check{e}t, \ f\bar{e}rn, \ th\hat{e}re;$ $\bar{\iota}ce, \ b\check{\iota}t; \ r\bar{o}w, \ w\dot{o}n, \ f\acute{o}r, \ n\check{o}t, \ d\dot{\varrho}; \ c\bar{\iota}ure, \ b\check{\iota}t, \ r\dot{\iota}ude, \ full, \ b\hat{\iota}urn; \ out;$ $\ddot{\iota}= French \ u, \ German \ \ddot{\iota}; \ \dot{g}em, \ \ddot{g}o; \ thin, \ then;$ $\dot{\iota}= French \ nasal \ (Jea\dot{n}); \ zh= French \ j \ (z \ in \ azure); \ K= German \ guttural \ ch.$

HERE AND THERE IN VOLUME 18

At odd times when you are just looking for "something interesting to read," without any special plan in mind, this list will help you. With this as a guide, you may visit faraway countries, watch people at their work and play, meet famous persons of ancient and modern times, review history's most brilliant incidents, explore the marvels of nature and science, play games—in short, find whatever suits your fancy of the moment. This list is not intended to serve as a table of contents, an index, or a study guide. For these purposes consult the Fact-Index and the Reference-Outlines.



| Picture Highlights | The | | | | |
|---|--------------------|--|--|--|--|
| Unusual Animals of the Rain Forest 10 | La Pens | | | | |
| 'Two Little Circus Girls' | Pend | | | | |
| The 'Mona Lisa' | M | | | | |
| How Paint Is Made 75 | How | | | | |
| Parts of the Parachute 109 | Pers | | | | |
| Among the Birds of Paradise 110 | | | | | |
| External Parasites 115 | His | | | | |
| Members of the Parrot Family 134 | Pale | | | | |
| Springtime for Penguins 161 | G | | | | |
| A Tour of the Philippines 257b | Pana Ty | | | | |
| Reading for Pleasure | The Anci | | | | |
| Pacific Ocean and Its Far-Flung Islands . 1 | | | | | |
| The Festival of Freedom—Passover 136 | | | | | |
| How People Live Around the World 190 | Far | | | | |
| Pets—And How to Care for Them 242 | Tho | | | | |
| Maria—Young Woman of the Philippines . 254 | A | | | | |
| School and Home; Work and Play | Fran No Pasc | | | | |
| Parent-Teacher Associations 114 | an | | | | |
| Parks and Playgrounds for Recreation . 125 | Past | | | | |
| | | | | | |

| The Peace Corps—Helping Hand for Lands in Need |
|---|
| Pens—From Reeds to Ball-Points 156 |
| Pencils—Many Kinds for Many Purposes |
| How to Figure Percentage and Interest . 198 |
| Personality—A Combination of Traits . 216 |
| |
| Historical Highlights |
| Palestine—Holy Land of Three Great Religions |
| Panama Canal—A Short Cut Between Two Oceans |
| The Long Quest for World Peace 143k |
| Ancient Persia—Head of a Vast Empire . 211 |
| Famous People |
| Thomas Paine—"Firebrand of the American Revolution" |
| Francis Parkman—Historian of the New World |
| Pascal—Philosopher, Mathematician, and Scientist |
| Pasteur's Struggle Against Disease 13 |
| |

HERE AND THERE IN VOLUME 18

| The Patron Saint of Ireland 139 | Perfumery—An Ancient and a |
|--|--|
| General Patton—"Old Blood and Guts" . 141 | Modern Art |
| Paul VI—Pope of the Roman | Forests of Stone |
| Catholic Church 142 | The Worldwide Petroleum Industry 229 |
| William Penn, the Quaker Who Founded Pennsylvania 162 | Marvels of Science and Invention |
| "Black Jack" Pershing, General of the Armies of the United States 210 | Paints—Coatings for Decoration and Protection |
| Peter the Great—Founder of the | The Story of Paper and Pulp 100 Parachute—Life Preserver for Airmen 109 |
| Russian Empire | The Production and Distribution of |
| Philip, Kings of France | Petroleum |
| I map, range of range | Pharmacy—The Science of |
| | Making Medicines 248a The Arts |
| STATE AND STATE OF THE PARTY OF | |
| | Paderewski—Musician and Statesman . 20 Painting—The Artist's View of |
| | Life and Nature |
| | Gordon Parks—Poet of the Camera 124 |
| | Pavlova—Incomparable Ballerina 142b |
| The Plant and Animal Kingdoms | Pepys, England's Greatest Diarist 197b |
| Palms of Many Lands 81 | H MILLIANS A |
| The Rare Pandas of Asia 97 | A |
| Parasitic Enemies of Man, Plants, and Animals | |
| Parrots—Favorite Pets in Zoos and Homes | |
| Juno's Bird | |
| Peanut—Useful Product of the Soil 146 | At Home and Abroad |
| Pearls—Gems of the Sea | Pakistan—The Moslem Nation Carved |
| The Comical Penguin 160 | from British India |
| Pepper—World's Most Popular Spice 197 | Republic of Panama—Crossroads of the New World |
| The Wide World of Facts | Paraguay—Underdeveloped Frontier Land of South America |
| Parliament—Rule by the People 129 | Paris—Beautiful City of Light 117 |
| British Parliament—The "Mother of | Peking, the City of Walls |
| Parliaments" | Pennsylvania—The Keystone State 163 |
| "The Meeting Will Please Come to Order" | Peru's Long History and Modern Progress |
| Passports and Visas | Philadelphia—The Stately City of William Penn |
| Patriotic Societies of the United States . 140 | The Republic of the Philippines 253 |
| ii | |



PACA. The paca is the second largest of all rodents. Only the capybara is larger. A full-grown paca may weigh almost 25 pounds and may be $2\frac{1}{2}$ feet long from the tip of its nose to the end of its body. Its tiny tail, about an inch in length, is hidden by the long, coarse fur that hangs from its rump. Circus sideshows displaying these animals have usually touted them as "the world's largest rats." A paca's coat ranges from brown to black with four rows of white dots along each side. The underparts are white to buff color.

Pacas are found from central Mexico to southern Brazil. They live in burrows dug in riverbanks, or under tree roots or stones. Pacas swim well and take to the water when danger threatens. They hunt at night for food which includes leaves, roots, and fallen fruit. Pacas are hunted for their flesh which many persons consider a delicacy. Pacas make up the genus Cuniculus.

THESE ARTICLES ARE IN THE FACT-INDEX

Pace College Pachomius, Saint Pachuca, Mexico Pachyderm Pachysandra Pacific, University of Pacifica, Calif.
Pacific College
Pacific Grove, Calif.
Pacific Islands, Trust
Territory of the
Pacific Lutheran
University

PACIFIC OCEAN and Its Far-Flung Islands

PACIFIC OCEAN. The vast Pacific is the world's largest ocean. It covers a third of the earth. No one knows how many islands rise from its blue waters. In the Philippines alone there are more than 7,000 islands and islets.

Until recent years most people knew little, if anything, about the Pacific islands. They were cut off from the rest of the world by vast stretches of sea. This was especially true of the islands in the heart of the Pacific. People called them the South Sea Isles. They dreamed of them as a tropical paradise of palmfringed coral shores and drowsy sun.

Late in 1935 American clipper planes began trans-Pacific flights. They made air bases of little-known Guam, Midway, and Wake islands (see Guam; Wake Island). Most of the rest remained nearly unknown.

When World War II broke out in the Pacific in 1941 the islands became vitally important, especially to the United States (see World War II). Government survey ships, often under fire, had to chart the strange, coral-ridden island waters. Thousands of young Americans fought to seize islands for air and naval bases and army transport harbors.

This great development of air and sea transport has now largely conquered the size of the Pacific. Its far-flung islands are no longer isolated. They have a new and important part in world affairs. To understand the Pacific, we should first learn something of its geography, people, and history.

Its Name and Its Geography

The Portuguese explorer Ferdinand Magellan reached the great ocean in 1520. He called it "Pacific," because he found it calm after his voyage around

South America (see Magellan). True, it does have violent storms, but generally fewer than the Atlantic.

The giant Pacific stretches 9,300 miles from the Arctic Circle at Bering Strait to the South Polar zone. Along the equator it reaches nearly halfway around the globe. Its area is nearly 64 million square miles—greater than the entire land area of the world. It holds half the water on the earth.

The eastern limits of the Pacific are sharply marked by the west coasts of the Americas. The only major breaks are the Aleutian Islands and Lower California.

The western limits are very different. From north to south, they are split by many peninsulas and islands. The resulting bays and arms of the Pacific are named as separate seas. To the north are Bering Sea, Sea of Okhotsk, Sea of Japan, Yellow Sea, East China Sea, and South China Sea. Southward the large

Mists partly enshroud the basalt mountains of Moorea, one of the Society Islands in French Polynesia. The island was explored and named by Capt. James Cook in 1769.



PACIFIC OCEAN

islands of the East Indies (Indonesia) break up the ocean into the Celebes Sea, Java Sea, and Timor Sea. The continent of Australia marks off the Coral Sea and Tasman Sea.

In this article we set the western limits of the Pacific at Japan, the Philippines, and New Guinea. We use this dividing line because the island groups near the Asian mainland (as well as New Zealand, off the coast of Australia) are classified as coastal archipelagoes rather than Pacific islands. The story of their geography and peoples—and the story of Australia—is told in separate articles (see Australia; East Indies; New Zealand).

Why the Pacific Is so Blue

The Pacific is the world's deepest ocean. Its average depth is more than two and one-half miles. It is deepest in the Mariana Trench, an undersea canyon southeast of the Mariana Islands. Soundings of about 36,000 feet have been made there. If Mount Everest, the earth's highest mountain, were set down in the Trench's deepest part, its tip would be more than 7,000 feet below the surface of the sea.

The Pacific Ocean is bluer than the Atlantic because the surface color of the Atlantic is screened by greater masses of microscopic plant and animal life. This microscopic life is called plankton. Plankton live on nitrogen compounds from decaying matter. The Pacific has a lower proportion of these compounds than the Atlantic.

Enchantment of the South Seas

The mighty Pacific washes the shores of five continents—North America, South America, Asia, Australia, and Antarctica. Its waters mingle in the southeast with the Atlantic Ocean and in the southwest with the Indian Ocean. It is not on the shores of continents or in the coastal islands, however, that the soul of the great Pacific is found. It lies far out where the fabled South Sea Islands are scattered over the huge ocean like stars in the sky.

Here great disturbances at the heart of the earth caused mountains and volcanoes to rise above the water. For hundreds of years tiny coral creatures have worked and died to make thousands of ringshaped islands called atolls (see Coral).

The air that sweeps the South Sea Islands is fragrant with flowers and spice. Bright warm days follow clear cool nights, and the rolling swells break in a never-ending roar on the shores. Overhead the slender coconut palms whisper their drowsy song.

When white men first came to the Pacific islands, they found that the people living there were like happy children. They were tall men and beautiful women who seemed not to have a care in the world. Coconut palms and breadfruit trees grew at the doors of their huts. The ocean was filled with turtles and fish, ready for the net. The islanders had little need for clothing. There was almost no disease.

Cruel and bloody wars sometimes broke out between neighboring tribes, and canoe raids were sometimes made on nearby islands. The strong warriors enjoyed fighting. Many of the islanders were cannibals, who cooked and ate the enemies they killed. This was part of their law and religion. These savages, however, were usually friendly, courteous, and hospitable. Some of the early explorers were so fascinated with the Pacific islands that they never returned to their own countries. They preferred to stay.

The Pacific islands have changed a great deal since white men first landed on their shores. The peaceful-looking islands are still there, but the people who once lived in such carefree happiness are vanishing. On islands where thousands lived a hundred years ago, only a few score are left.

The Blight of the White Man

White men brought diseases to the islands—tuberculosis, smallpox, leprosy, and many others. Because the islanders had always been free from disease, they had no power to resist infection. They were easy victims of the white man's diseases. Even measles, which is considered a minor ailment, killed the islanders by the thousands.

This is the tragedy of the Pacific islands. In another hundred years very few pure-blooded members will be left of what was once called "the noblest of all primitive races,"

Unsolved Mystery of the Pacific

The story of the Pacific contains puzzling chapters. Only recently have archaeologists begun to solve some of the mysteries (see Easter Island). Scattered through the islands from one side of the ocean to the other are remains of an ancient race

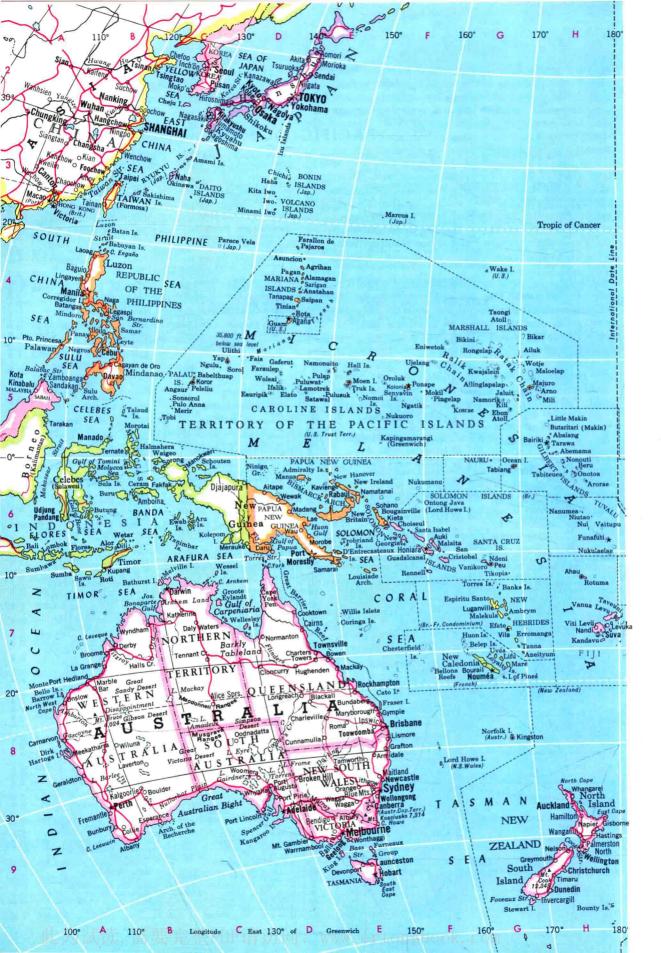
WHAT IS THE SECRET OF THIS STATUE?

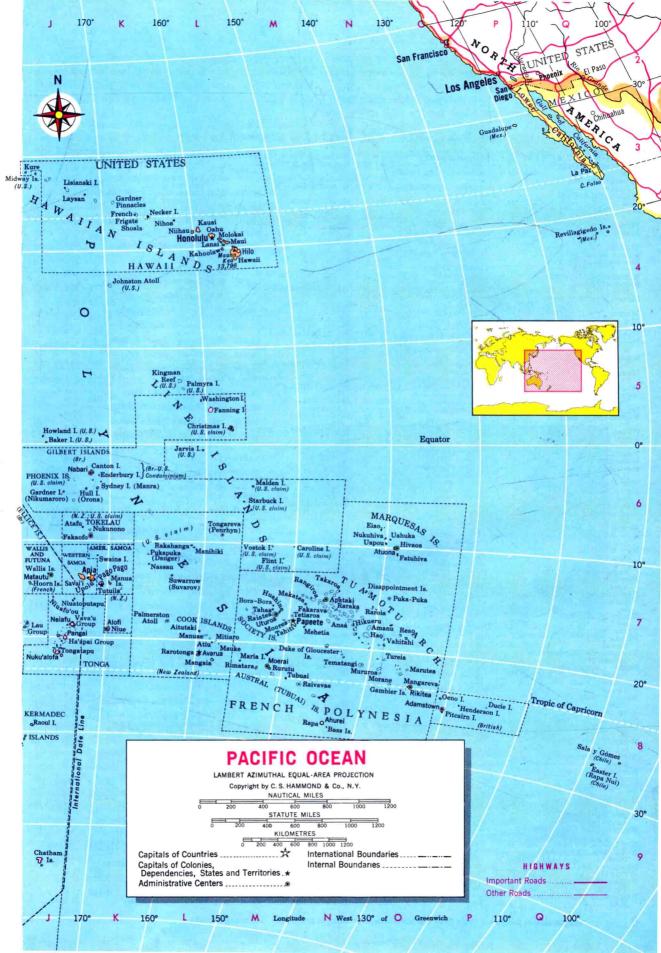
The purpose of this and of other strange stone images like it on Easter Island is still unknown. Only in 1957 did scientists discover how they could have been moved from the quarry.



PACIFIC OCEAN*

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Bakara (atoll), Pacific Is. Bakara (at | Is. 3,296 Abemama (atoll), Gilbert Is. 2,300 Adamstown (cap.), Pitcairm Is. 74 Adelaide, Aust. †857,196 Admiralty (isls.), Facific Is. 15,765 Agaña (cap.), Guam 2,119 Agrihan (isl.), Pacific Is. 48 Ahau, Fiji Ahurei, Fr. Poly. 368 Alilinglapalap (atoll), Pacific Is. 1,100 Aliluk (atoll), Pacific Is. 335 Aitape, Papua N.G. 1,035 Aitutaki (atoll), Cook Is. 2,414 Alamagan (isl.), Pacific Is. 25 Albany, Aust. 32,250 Allore Springs, Aust. 14,149 Alofl (cap.), Niue 957 Amadeus (lake), Aust. Manu (atoll), Fr. Poly. 367 Amadeus (lake), Aust. Manu (atoll), Fr. Poly. 375 Anatahan (isl.), Pacific Is. 367 Amatahan (isl.), Pacific Is. 367 Anatahan (isl.), Pacific Is. 367 Anatahan (isl.), Pacific Is. 367 Anatahan (isl.), Pacific Is. 367 Apataki (isl.), Fr. Poly. 375 Anatahan (isl.), Pacific Is. 367 Apataki (isl.), Fr. Poly. 388 Armidale, Aust. 20,300 Arnhem (cape), Aust. Arnhem Land (reg.), Sust. Arnhem Land (reg.), Aust. Arnhem Land (reg.), Gilbert Is. 1,777 Baker (island) Ballarat, Aust. Ballarat, Aust. Barlee (lalae), Aust. Barlee (lalae), Aust. Barlee (lalae), Aust. | H ND EE EHM G HE K EBEDKO N GJ M E H D M JOFO D H HBEJLMHG LC F L D HJE GDB | Broome, Aust. 2,049 Bruce (mt.), Aust. 18,550 Brude Merg, Aust. 29,100 Butaritari (atoll), Gilbert Is. 2,971 Cairns, Aust. 35,200 Canberra (cap.), Aust. 1209,094 Canton (isl.), Gilbert Is. 2,971 Cairns, Aust. 22,971 Cairns, Aust. 35,200 Canberra (cap.), Aust. 1209,094 Canton (isl.), Gilbert Is. 355 Cape York (pen.), Aust. 4,242 Caroline (isl.), Gilbert Is. 62,731 Carpentaria (gulf), Aust. Cato (isl.), Aust. Cato (isl.), Aust. Charleville, Aust. 7,518 Chatham (isls.), N.Z. 730 Chesterfield (isls.), N.Z. 730 Chesterfield (isls.), N.Z. 730 Chesterfield (isls.), Sol. Is. 9,467 Christchurch, N.Z. 172,500 Christchurch, N.Z. 172,500 Christchurch, N.Z. 172,500 Christchurch, N.Z. 172,500 Christchurch, N.Z. 18,125 Cook (strait), N.Z. 674 Cook (strait), N.Z. Cook (strait), N.Z. Cook (strait), N.Z. Cook (strait), Cook (strait), Cook Is. 786 Coringa (isls.), Aust. 1,805 Daito (isls.), Japan 2,359 Daly Waters, Aust. 143,74 D'Entrecasteaux (sls.), Papua N.G. 32,288 Derby, Aust. 19,399 Dirk Hartogs (isl.), Aust. Disappointment (isls.), Fr. Poly. Disappointment (lake), Aust. 19,399 Dirk Hartogs (isl.), Aust. Disappointment (isls.), Fr. Poly. Disappointment (lake), Aust. 19,399 Dirk Hartogs (isl.), Patific Is. 28 Easter (isl.), Chile 1,598 Eauripik (atoll), Pacific Is. 21 Ebon (atoll), Pacific Is. 21 Ebon (atoll), Pacific Is. 22 Ellice Islands (Tuvalu) 5,900 Enderbury (isl.), Gilbert Is. Eniwetok (atoll), Pacific | 7898 57 9 6787 5788 70 73 6 0 589770978778337 7967 6708 7 868 8098 5 5 765 6 6 6 6 6 6 6 78 8 78 8 8 8 8 8 8 8 8 8 | Fremantle, Aust. 26,036 French Frigate (shoals), Hawaii French Polynesia 138,000 Frome (lake), Aust. Funafuti (atoll), (cap.), Tuvalu 871 Furneaux (isls.), Aust. Gardner (lake), Aust. Gambier (isls.), Fr. Poly. Gardner (sl.), Gilbert 1s. Gardner (lake), Aust. Geelong, Aust. Geelong, Aust. Geelong, Aust. Geelong, Aust. Geelong, Aust. Geelong, Aust. Geraldton, Aust. Geelong, Aust. Geraldton, Aust. Greatliss.), Gilbert Gratlon, Aust. Greatliss.), Gilbert Great Australian (bight), Aust. Great Sandy (des.), Aust. Great Sandy (des.), Aust. Great Victoria (des.), Aust. Great Victoria (des.), Aust. Greenwich (Kapingamarang (atoll), Pacific 1s. Grat Groute Eylandt (isl.), Aust. Groote Eylandt (isl.), Aust. Guadalcanal (isl.), Sol. Is. Guadicanal (isl.), Sol. Hawaii (island) Gympie, Aust. Houn (island) Haapai Group (islands), Tonga Haha (isl.), Japan Hall (isls.), Pacific Is. Hamilton, N.Z. Hamilton, N.Z. Hamilton, N.Z. Hamilton, N.Z. Hamilton, N.Z. Hamilton, N.Z. Hawaii (isl.), Sen, Ood Hawaii (isl.), Gilbert Hilo, Hawaii Huuna (1818), Sen, Ood Henderson (island), Pitcairn Is. Hikueru (atoll), Fr. Poly. Hilo, Hawaii Huon (island) Huonilui (cap.), Hawaii Huon (island), Fr. Poly. Hawaii (isl.), Gilbert Is. Huon (isl.), Papun N.G. Huun (isl.), Papina N.G. Huun (isl.), N.Z. Inswich, Aust. Gr.500 | 8 389 6 959 86 38988 6698 9788 50 7 748 835797944 43 8 74 60 6 3 795 788667 508 ED NJ KBEBC HIHF CECC. | Kolonia (cap.), Pacific Is. 4,795 Koror, Pacific Is. 7,669 Kosciusko (mt.), Aust. Kosrae (isl.), Pacific Is. 2,604 Kure (isl.), Hawaii Kwajalein (atoll), Pacific Is. 5,469 La Grange, Aust. Lae, Papua N.G. 42,000 Lamotrek (atoll), Pacific Is. 17,012 Launceston, Aust. 12,933 Lavain (island), Hawaii2,204 Lau Group (isls.), Fiji Launceston, Aust. 17,012 Laysan (isl.), Hawaii Leeuwin (cape), Aust. Levelue (cape), Aust. Levelue (cape), Aust. Levelue (cape), Aust. Levelue, Fiji 1,472 Lisianski (isl.), Hawaii Lismore, Aust. 21,650 Little Makin (atoll), Gilbert Is. 21,650 Little Makin (atoll), Gilbert Is. 1,451 Longraech, Aust. 3,455 Lord Howe (isl.), Aust. 223 Lord Howe (isl.), Aust. 231 Loyalty (isls.), New Hebr. Macdonnell (ranges), Aust. Mackay, Aust. 32,00 Majuro (atoll), Pacific Is. 10,290 Makatea (isl.), Fr. Poly. Malialta (isl.), Sol. Is. Malelula (isl.), Papua N.G. 16,866 Maitland, Aust. 33,200 Majuro (atoll), Pacific Is. 10,290 Makatea (isl.), Fr. 78 Makin (Butaritari) (atoll), Gilbert Is. 30,912 Malata (isl.), Sol. Is. Malekula (isl.), Pacific Is. 10,290 Malata (isl.), Fr. 78 Makin (Butaritari) (atoll), Gilbert Is. 30,912 Malata (isl.), Fr. 79 Maloelap (atoll), Pacific Is. 30,912 Malata (isl.), Fr. 78 Malin (Butaritari) (atoll), Gilbert Is. 30,912 Malata (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. Maloelap (atoll), Pacific Is. 30,912 Mangareva (isl.), Fr. 90y. 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| | Arno (atoll), Pacific Is. 1,120 Arorae (atoll), Gilbert Is. 1,626 Ashburton (riv.), Aust. Asuncion (isl.), Pacific Is. Atafu (atoll), Tokelau 572 Atlu (isl., Cook Is. 1,312 Atuona, Fr. Poly. 5,753 Auckland, N.Z. 153,100 Auki, Sol. Is. 1,926 Austral (isls.), Fr. 5,079 Australia 13,923,991 Australian Capital Terr., Aust. 223,571 Australian Capital Terr., Aust. 223,571 Ayarua (cap.), Cook Is. 2,297 Babelthuap (isl.), Pacific Is. 3,771 Bairlki (cap.), Gilbert Is. 3,771 Bairlki (cap.), Gilbert Is. 1,777 Baker (island) Ballarat, Aust. 39,778 Banks (isls.), New Cal. Barley (lake), Aust. Barrow (isl.), Aust. Barrow (isl.), Aust. Bars (isls.), Fr. Poly. Bass (str.), Aust. Barnow (isl.), Aust. Barnow (isl.), Aust. Bathurst (isl.), Aust. Bellona (reefs), New Cal. Bendigo, Aust. 32,007 Beru (atoll), Gilbert Is. Biklni (atoll), Pacific Is. Biklni (atoll), Japan Bora Bora (isl.), Fr. Poly. 1,507 Bora Bora (isl.), Fr. Poly. 1,507 Bougainville (isl.), Papua N. G. 78,318 Boulder, Aust. 1,755 Bouent, Mast. 1,755 Bouent, Mast. 1,292 Bougainville (isl.), Papua N. G. 78,318 Boulder, Aust. 5,880 | H HBE1LMHG LC F L D H1E GDBBMECGGE HH G EEEE L FCHGE7 | Papua N.G. 32,288 Derby, Aust. 2,538 Derby, Aust. 19,399 Dirk Hartogs (isl.), Aust. Disappointment (isls.), Fr. Poly. Duke of Gloucester (isls.), Fr. Poly. Dunedin, N.Z. 84,000 East (cape), N.Z. Easter (isl.), Chile 1,598 Eauripik (atoll), Pacific Is. 740 Efate (isl.), New Hebr. 1,940 Eiao (isl.), Fr. Poly. Elato (atoll), Pacific Is. 32 Ellice Islands (Tuvalu) 5,900 Enderbury (isl.), Gilbert Is. 36 Eromanga (isl.), New Hebr. 2,115 Eyre (lake), Aust. Fais (isl.), Pacific Is. 212 Fakaofo (isl.), Tokelau 649 Fakarava (atoll), Fr. Poly. Fakfak, Indon. 13,602 Fanning (isl.), Gilbert Is. Faraulep (atoll), Pacific Is. F | C 76 8 N 7 8 6 8 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 | U.S. 887,000 Hawalian (island), Pitcairn Is. Hikueru (atoll), Fr. Poly. Pitairn Is. Hohart, Aust. Hollard, Salard, | J 8 74 60 6 3 795 786667 50 ML NE F L JFJ LEJEG E11883 5664 7 49779 573 6 8655058 H FE GKK C LBHD FDL E JFG-1188 | Poly. Makin (Butaritari) (atoll), Gilbert Is. 2,971 Malaita (isl.), Sol. Is. Malekula (isl.), Sol. Is. Malekula (isl.), New Hebr. 9,207 Maloelap (atoll), Pacific Is. Mangaia (isl.), Cook Is. Mangareva (isl.), Fr. Poly. Maniniki (isl.), Cook Is. Mangareva (isl.), Fr. Maniniki (isl.), Cook Is. Mangareva (isl.), Fr. Maniniki (isl.), Cook Is. Manua (sydney) (isl.), Gilbert Is. Manua (isls.), Amer. Samoa 2,112 Manuae (isl.), Papua N.G. Manuae (isl.), Papua N.G. Manuae (isl.), Papua N.G. Marble Bar, Aust. Marcus (isl.), Japan Mará (isl.), Fr. Poly. Mariana (isls.), Fr. Poly. Mariana (isls.), Fr. Poly. Mariana (isls.), Pacific Is. Guam) Marquesas (isl.), Fr. Maryborough, Aust. 19,000 Matautu (cap.), Wallis and Futuna Marue (isl.), Fr. Poly. Maryborough, Aust. 19,000 Matautu (cap.), Wallis and Futuna Mauke (isl.), Hawaii 38,691 Mauke (isl.), Lewili 38,691 Mauke (isl.), Fr. Poly. Mauna Kea (mt.), Hawaii Meekatharra, Aust. 927 Mehetia (isl.), Fr. Poly. Melanesia (isls.) 3,666,000 Melbourne, †2,661,400 Melville (isl.), Aust. 542 Merauke, Indon. 21,366 Merir (isl.), Pacific Is. Micronesia | H GL G H L N KD K KK ECFGL EEN GNF JL L LBM E EDDD |
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PACIFIC OCEAN* — Continued

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Midway (isis.), U.S. 2,000 J3 Nukunono (atoll), Tokelau Mili (atoll), Pacific 366
                                                                                                                      J 6 Recherche (arch.), Aust.
                                                                                                                                                                                    C 9 Timor (sea)
Tinian (isl.), Pacific
                                                                                                                                                                                                                                                    C 7
                                                                                                                                                                                   F 7
N 8
                                            538 H 5 Nukuoro (atoll), Pacific
                                                                                                                             Is.
Rikitea, Fr. Poly.
Rimatara (isl.), Fr.
                                                                                                                                                                      1.132
                                                                                                                                                                                            Is.
Tobi (isl.), Pacific Is.
Tokelau (isls.)
                                                                                                                                                                                                                                        714
                                                              Is.
Nullarbor (plain), Aust.
Oahu (isl.),
Minami Iwo (isl.),
                                                                                                           245
                                                                                                                                                                                                                                   1,625
92,000
      Japan
Mitiaro (isl.), Cook
                                                                                                                                                                          738
                                                                                                                                                                                            Tonga
                                                                                                                                  Poly.
Is.
Moen (isl.), Pacific Is.
9,568
                                                      L 7
                                                                   Hawaii
                                                                                                   630,528
                                                                                                                      L 3
                                                                                                                             Rockhampton,
                                                                                                                                                                                            Tongareva (atoll), Cook
Is.
                                                                                                                                  Aust.
ma, Aust.
                                                                                                                                                                                   F 8 Is.
Tongatapu (isls.),
Tonga
G 4 Toowoomba,
Aust.
                                                      Hawan 630,528
Ocean (isl.), Gilbert
Is. 2,314
Oeno (isl.), Pitcairn Is.
Onotoa (atoll), Gilbert
                                                                                                                                                                     51,500
                                                                                                                                                                                                                                         531
                                                                                                                     G 6 Roma, Aust.
O 8 Rongelap (atoll), Pacific Is.
Moerai, Fr. Poly. 651
Mokil (atoll), Pacific Is. 321
                                                                                                                                                                         .870
                                                                                                                                                                                                                                   54.437
                                                                                                                                                                                                                                                    T 8
                                                                                                                                                                          165
                                                                                                                                                                                   Aust. 62,6
4 Aust. 62,6
4 Torrens (lake), Aust.
H 7 Torres (isls.), New
Hebr. 2
Torres (strait)
Townsville, Aust. 82,6
4 Trobriand (isls.), Papua
                                                                                                                                                                                                                                    62,900
Molokai (isl.), Hawaii 5,261
Monte Bello (isls.), Aust.
Moorea (isl.), Fr. Poly.
4,842
                                                              Onslow, Aust.
Ontong Java (isls.), Sol.
                                                                                                                                                                       1.104
                                                                                                           349
                                                                                                                         Rotuma (isl.), Fiji
6 Rurutu (isl.), Fr.
8 Poly.
9 Saipan (isl.), Pacific
                                                                                                                                                                       3,826
                                                                                                                                                                                                                                         213
                                                                                                                       6 Nov. 9 Saipan (isl.), r. 18. 18. 5 Sala y Gómez (isl.), Chile Samarai, Papua N.G. 2 moa, American Western
                                                    L 7 Oodnadatta, Aust. N 8 Orange, Aust. 24,8 Ord (riv.), Aust. 24,8 Ord (riv.), Aust. E 6 Oroluk (isl.), Pacific Is. Orona (Hull) (isl.), Gilbert Is. E 9 Pacific Islands, Terr. M 8 Of the 130,0 Pagan (isl.), Pacific Is. J 6 Pago Pago (cap.), Amer. Samoa 2,4 F 6 Palau (isls.). Pacific
                                                               Oodnadatta, Aust.
                                                                                                                                                                       1,514
                                                                                                           229
Morane (isl.), Fr. Poly.
Morobe, Papua
N.G.
                                                                                                                                                                                                                                    82,500
                                                                                                      24.830
                                                                                                                                                                     12,385
N.G.
Mount Gambier, Aust.
19,292
                                                                                                                                                                                                 N.G
                                                                                                                                                                                     P 8 Truk (isls.), Pacific
                                                                                                                                                                                                                                   24.216
Murray (riv.), Aust.
Mururoa (isl.), Fr. Poly.
Musgrave (ranges), Aust
Nabari, Gilbert Is.
                                                                                                                                                                                    E 7
J 7
J 7
                                                                                                                                                                                            Tuamotu (arch.), Fr.
                                                                                                                                                                       1,948
                                                                                                                             Samoa, American
Samoa, Western
San Cristobal (isl.),
                                                                                                   130,000
Is. 57
                                                                                                                                                                                            Poly.
Tubuai (isl.), Fr.
                                                                                                                                                                                                                                      8,226 M 7
                                                                                                                                                                         500
                                                                                                                                                                                    Poly. 1
Tubuai (Austral) (isls.)
Fr. Poly. 5
Tureia (atoll), Fr.
                                                                                                                                                                                                                                      1.422
Namatanai, Papua
N.G.
                                                                                                      2,451
                                                                                                                             Sol. Is. 1
Santa Cruz (isls.), Sol
                                                                                                                                                                     11,212
                                                    F 6 Palau (isls.), Pacific
                                                                                                                                                                                                                                      5,079
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                                                                                                     12,673
                                                                                                                                                                       5,421
Namonuito (atoll),
                                                                                                                   D 5
                                                                                                                                                                                    Poly.
Tutuila (isl.), Amer.
Samoa
                                                      E 5 Palmerston (atoll),
                                                                                                                             Santa Isabel (isl.), Sol
                                                                                                                                                                                                                                         848 N 8
Pacific Is.
Namorik (atoli), Pacific
                                                                                                    53 K 7 Is. 10,420 Sarigan (isl.), Pacific Is. Satawal (isl.), Pacific Is.
                                                              Cook Is.
Palmerston North,
                                        431 G 5
6,938 H 7
                                                                                                                                                                                                                                   24,548
5,900
                                                                                                                                                                                                                                                 J 7
H 6
Nandi, Fiji
Nanumea (atoll),
Tuvalu
Napier, N.Z.
Nassau (isl.), Cook
Is.
                                      6,938 H 7
Palmyra (isl.), U.S.
977 H 6
Pangai, Tonga 1,838
42,900 H 9
Papeete (cap.), Fr. Poly.
25,342
                                                                                                                                                                                             Tuvalu
                                                                                                                                                                                    Tuvaiu
Uahuka (isl.), Fr.
Poly.
J 7
Uapou (isl.), Fr. Poly.
1,590
                                                                                                                             Is.
Savai'i (isl.), W.
                                                                                                                                                                          354
                                                                                                                                                                     40,572
                                                                                                                                  Samoa
                                                              Papua (gulf), Papua N.G.
Papua New Guinea
                                                                                                                              Schouten (isls.),
                                      113 K 7
7,100 G 6
G 7
i K 3
2,873 J 7
30,400 H 10
                                                                                                                             Indon.
Senyavin (isls.), Pacific
                                                                                                                                                                   110,148
                                                                                                                                                                                    D 6 Ujelang (atoll), Pacific
                                                                                                                                                                                                                                         342
Nauru
Ndeni
Nauru
Ndeni (isl.), Sol. Is.
Necker (isl.), Hawaii
Neiafu, Tonga
Nelson, N.Z.
New Britain (isl.), Pa
N.G.
New Caledonia
New Caledonia
                                                                                                                                                                                    F 5 Ulithi (atoll), Pacific D 8 Is.
                                                                                               2,900,000
                                                                                                                                                                     17,259
                                                                                                                             Simpson (des.), Au
Society (isls.), Fr.
Poly.
Sohano, Papua
                                                              Parece Vela (isl.), Ja
Peleliu (isl.), Pacific
                                                                                                                                                                                     D 8 Is. Upolu (isl.), W. Samoa Uturoa, Fr. Poly. F 6 New Cal. F 6 Vahitahi (atoll), G 6 F Poly.
                                                                                                                                                                                                                                         710
                                                                                                                                                                                                                                                   D 4
                                                                                                                                                            Aust.
                                                                                                  Japan
                                                              Peleliu (isl.), Pacific
Is. 657
Penrhyn (Tongareva) (atoll),
Cook Is. 531
Perth, Aust. †787,300
Peu, Sol. Is.
Phoenix (isls.), Gilbert Is.
Pines, Isle of,
New Cal. 1,159
Pineslan (atoll), Pacific
                                                                                                                                                                   100.270
                                                                                                                                                                                    L 7
                                                                                                                                                                                                                                 105.889
                                    Papua
163,405
                                                                                                                             Sonator, Fapas
N.G. 2
Solomon (isls.) 280
Solomon (sea)
Solomon Islands 200
Sonsorol (isls.), Pacific
                                                                                                                     L 6
B 9
G 7
J 6
                                     134,000
                                                                                                                                                                   280,000
                                                                                                                                                                                                                                      2.374
                                                                                                                                                                                                                                                   G 7
                                                                                                                                                                                    F 6
                                     126,436
                                                                                                                                                                   200,000
                                                                                                                                                                                                                                           65
                                                                                                                                                                                                                                                 N 7
     (isl.)
                                                                                                                                                                                                  Fr. Poly
(isl.)
Newcastle, Aust. †363,010
New Georgia (isls.), Sol,
                                                                                                                                                                                             Vaitupu (atoll),
Tuvalu
Vanikoro (isl.), Sol.
                                                                                                                              Is.
Sorol (atoll), Pacific
                                                                                                                                                                                    D 5
                                                                                                                                                                            56
                                       16,473
                                                               Pingelap (atoll), Pacific
Is. 16,473
New Guinea (island)
New Hanover (isl.), Papua
N.G. 7,829
                                                                                                                                                                                  D 5 Is. 200 C. D 6 Vanua Levu (isl.), Fiji 84,892 H 7
                                                                                                                    G 5
O 8
K 7
                                                                                                                             Is. Sorong, Indon. 23,763 D 6 Value Screen South Australia (state),
Aust. 1,237,885 D 8 South East (cape),

South East (cape),

E 10 Value Screen Value Group (isls.),
Tonga 15,065
Victoria (state), Aust. 3,756,442
                                                                                                           641
                                                               Polynesia (isls.) 1,2
Ponape (isl.), Pacific
                                                                                                    287,000
                                                      F 6
         Hebrides
                                                                                                                    F 5 South East (cape),
(isls.)
New Ireland (isl.),
                                                                                                      14,552
                                                               Is.
Port Augusta,
                                                                                                                             South East (cape),
Aust.
South (island),
N.Z.
Spencer (gulf), Aust.
Starbuck (island),
Gilbert Is.
Stewart (isl.), N.Z.
Suva (cap.), Fiji 66,622
Suwarrow (Suvarov) (atoll),
Cook Is.
Swains (isl.), Amer.
Samoa 74
    w Ireland 22, Papua N.G. ew South Wales (state), Aust. 4,954,355 E 9 3,200,000 G 10
                                                                                                      13,092
                                                                                                                     D 9
                                                                   Aust
                                                               Aust. 13,092
Port Hedland, Aust. 7,229
Port Lincoln, Aust. 10,272
Port Moresby (cap.),
Papua N.G. 117,000
Port Pirie, Aust. 15,005
                                                                                                                                                                  842,300 G 10 Vila (cap.), New Hebr
                                                                                                                                                                                             Viti Levu (isl.), Fiji
Aust.
New Zealand
                                                                                                                                                                                                                                 388,645 H 7
Ngatik (atoll), Pacific
Is.
                                                                                                                                                                     410 G 10 Volcano (isls.),
66,622 H 7 Japan
Ngulu (atoll), Pacific
                                                               Puka-Puka (atoll), Fr.
                                                                                                                                                                                   H 7 Vapan Vostok (isl.), Gilbert Is.
K 7 Wagga Wagga,
Aust. 32,510
Walgeo (isl.), Indon. 150
J 6 Wallis (isls.) 5,821
G 6 Wallis (isls.)
Wanganui, N.Z. 35,750
Wanganui, N.Z. 35,750
Is. 8
Nihoa (isl.), Hawaii
Niihau (isl.),
Hawaii
Nikumaroro (Gardner) (isl.),
Gilbert Is.
                                                      D 5 Poly.
K 3 Pukapuka (atoll), Cook
                                                                                                           101
                                                                                                                     N 7
                                                                                                           786
                                                                                                                     K 7
                                                                                                                             Swains (isi.), Amer.
Samoa
74
Sydney, Aust. †2,922,760
Sydney (isi.), Gilbert Is.
Tabiang, Gilbert Is.
38
Tabiteuea (atoll), Gilbert
                                                      K 3 Pulap (atoll), Cook Is.
                                                                                                           316
                                                       J 6 Pulo Anna (isl.), Pacific
Ninigo Group (isls.),
Papua N.G.
Niuafo'ou (isl.),
                                        1,101 E 6 Rulusuk (atoll), Pacific 265
                                                                                                            32
                                                                                                                   D 5
                                                                                                                                                                       3,942 H 6 Wanganui, N.Z.
                                                                                                                     F 5
Niuato ou (isi.),
Tonga
Niuatoputapu (isi.),
Tonga
Niue (island)
Niutao (isi.), Tuvalu
Nomoi (isis.), Pacific
                                                                                                                             Tahaa (isl.), Fr.
Poly.
Tahiti (isl.), Fr.
                                                              Puluwat (atoll), Pacific
                                                                                                                                                                                             Warrnambool,
                                                                                                                                                                                            Aust. 19,81
Washington (isl.), Gilbert
                                                              Is.
Queensland (state),
2,039,501
                                                                                                                                                                                    L 7
                                                                                                                     E 5
                                                                                                                                                                       3,539
                                                                                                                                                                                                                                    19.810 D 9
                                                     J 7
K 7
Aust.
Rabaul, Papua
N.G.
                                         1,254
                                                                                                                                                                                            Is.
Wau, Papua N.G.
Wellesley (isls.), Aust.
Wellington (cap.), N.Z.
143.
                                                                                                                     E 8
                                                                                                                                                                     79,494
                                                                                                                                                                                    L 7
                                                                                                                                  Polv.
                                                                                                       Takaroa (atoll), Fr.
Poly.
Tawworth, Aust.
Tampag, Pacific
Is.
                                                                                                                                                                                                                                     1,914
                                                                                                                                                                                  M 7
E 9
                                                                                                      62,329 F 6
                                         2.005
                                                      F 5 Raiatea (isl.), Fr.
                                                                                                                                                                     25,360
Nonouti (isl.), Gilbert Poly.
Is. 2,223 H 6 Raivavae (isl.), Fr.
                                                                                                                                                                                    E 4 Wessel (isls.), Aust.
Western Australia (state)
H 7
Aust. 1,186,63
Western Samoa 151,50
G 4 Wewak, Papua N.G.
Is.
Norfolk Island (terr.),
1,870
                                                                                                                                                                       1,146
                                                                                                        1,021 M 8 Tanna (isl.), New Hebr.
                                                                   Poly
                                                      G 8 Rakahanga (atoll), Cook
E 7 Is. 283 K 7 Taongi (atoll), Pacific
H 9 Ralik Chain (isls.),
                                                                                                                                                                                                                           1,186,638
151,500
Aust.
Normanton, Aust
                                                                                                                                                                       5,869
North (cape), N.Z. H 9 Rank Chain (cape), N.Z. Pacific Is.
2,200,500 H 9 Rangiroa (atoll), Fr.
Poly.
                                                                                                     10,692 G 5 Tarawa (atoll), Gilbert
Is. 17
                                                                                                                                                                         129 H 5 Whangarei, N.Z. 32,100 Whyalla, Aust. 33,426 Willis (islets), Aust. 992 Willia, Aust. 941 H 7 Woleai (atoll), Pacific Is. 608
                                                                                                                                                                                                                                    15.015
                                                                                                                                                                     17,129
                                    116,056 D 7 Rapa (isl.), N.Z.
Rapa (isl.), Fr. Poly.
B 8 Rapa Nui (Easter)
(island), Chile
                                                                                                                             Tasman (sea)
                                                                                                           937 M 7
                                                                                                       1,598 Q 8 Taveuni (isl.), Fiji 7,041 Tematangi (isl.), Fr. Poly.

34 M 7 Tematangi Creek, Aust.
                                                                                                                          8 Tasmania (state), Aust.
North West (cape),
Aust.
Nouméa (cap.), New Cal.
                                                                                                                                                                                                                                                   E 5
                                                     G 8
H 6
                                                              Raraka (atoli), Fr.
Poly.
Raroia (atoll), Fr.
                                                                                                                                                                                   M 8 Wollongong, Aust
                                                                                                                                                                      2,236 D 7
8c Wonthaggi, Aust. 4,438
Woomera, Aust. 2,958
Wotje (atoll), Pacific Is. 425
Nui (atoll), Tuvalu
Nuku'alofa (cap.),
                                                                                                            63 M 7 Territory of the Pacific
Islands 130,000
Tonga
Nukuhiya (isl.), Fr.
                                      18,396
                                                       J 8
                                                              Poly.
Rarotonga (isl.), Cook
9,811 K 8 Tetiaroa (atoll), Fr.
                                                             Is.
Ratak Chain (isls.),
Pacific Is.
Reao (atoll), Fr.
Poly.
Nukulaelae (atoll),
                                         1,491 M 6
                                                                                                                                                                                                                                                  H 5
                                                                                                                                                                                  M 7 Wyndham, Aust.
Yap (isls.), Pacific
G 7 Is.
                                                                                                                             Poly.
Tikopia (isl.), Sol. Is.
                                                                                                                                                                                                                                      1,515
                                            343 H 6
                                                                                                                     G 4
Tuvalu 34:
Nukumanu (atoll), Papua
N.G.
                                                                                                                                                                                                                                      5.140
                                                                                                                                                                                                                                                D 5
                                                                                                           256 N 7 Timaru, N.Z.
                                                                                                                                                                    28,900 H 10 York (cape), Aust.
                                                       F 6
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6

of skilled builders. Ruins have been discovered of altars, tombs, and dwellings made of great blocks of stone fitted together without mortar. Traces exist of houses built out over the sea, canals, and huge piers and breakwaters.

On tiny Easter Island—about 2,350 miles from the coast of Chile in South America and 1,300 miles from any other inhabited island—are great walls and platforms 30 feet high, with pedestals on top. Upon these

once stood the huge statues which now lie nearby. The largest is 37 feet high. Although crumbling with age, these statues still show resemblance to the human form. On the other side of the island is a 70-foot figure, half cut out from the volcanic rock. Some of the stones are traced with geometrical patterns and animal shapes.

In 1957 an expedition to the island, led by the Norwegian explorer Thor Heyerdahl, discovered the probable method used to move the giant statues. Much of the story of the builders, however, remains unknown. (See also Easter Island.)

Island Groups in the Pacific

The Pacific islands, often called by the general name Oceania, form a chain some 8,000 miles long, stretching from the Philippines and New Guinea to distant Easter Island. The islands fall into three great divisions, according to their position and the character of their people. These divisions in turn are divided into smaller clusters, each with its own name.

The coastal islands of Asia form two separate branches. The southern chain, which lies entirely below the equator, forms a crescent. This chain is known as *Melanesia* ("islands of the blacks"). It begins east of New Guinea with the Admiralty Islands and two larger individual islands, New Ireland and New Britain. Then the chain swings southeast, through the Solomon Islands, the Santa Cruz Islands, the New Hebrides Islands, and the Loyalty Islands. East of the New Hebrides is the Fiji group.

The northern chain is called *Micronesia* ("small islands"). It stretches eastward from the Philippines through the Palau Islands, the Mariana Islands and Guam, the Caroline Islands, and the Marshall Islands. Then the chain dips southeast through the Gilbert Islands (on the equator) and the Ellice Islands, forming a crescent much larger than that of Melanesia.

The eastern ends of these two crescents meet and then open out into the scattered islands known as *Polynesia* ("many islands"). Beginning east of the Fiji Islands are the Tonga (or Friendly) Islands and the Samoa group. Farther east are the Cook Islands and the Society Islands (which include Tahiti), then the Tuamotu Archipelago and the Marquesas Islands. Far north of the equator lie the Hawaiian Islands.

On these three large divisions live three distinct peoples with different racial origins and cultures. How these peoples came to the islands is not exactly known. It is generally believed that all the islands were settled by people from Asia. They passed down the Malay Peninsula and into the islands beyond in waves that spread wider and wider. Melanesia, north and east of New Guinea, was probably settled first. Micronesia and Polynesia were inhabited later.

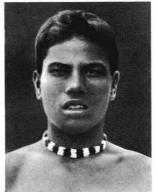
It is remarkable that the Melanesians, who settled on islands close to the mainland of Asia, are

PACIFIC ISLAND PEOPLES





This Pribilof islander (left), with his Mongol features, lives in the far northeast. The pretty Hawaiian girl (right) has wavy hair.





The Micronesian boy (left) lives on one of the Gilbert Islands. The brown-skinned Samoan warrior (right) wears a ceremonial headdress.





Fuzzy-haired and dark, this semi-Melanesian (left) lives in the Fij Islands. The Melanesian chieftain (right) is a true Negroid type.



POLYNESIA'S MOST VALUABLE CROP
Islanders eat the meat of the coconut and drink its milk. Dried coconut meat yields copra, and the husk yields cord.

the most primitive people in the Pacific. In contrast to them, the Polynesians—who went farther in search of their homes—are in many ways the most civilized according to American standards.

Melanesia-The "Black Islands"

The natives of Melanesia, like those of New Guinea, have very dark skin, thick lips, broad, flat noses, and fuzzy hair. They are frequently called Oceanic Negroids because they resemble African Negroes. Melanesians, in general, are shorter than other Pacific islanders. In fact, some of the tribes in the interior of New Guinea and on the New Hebrides are Pygmies. In the western end of Melanesia strong traces of Papuan and Malay ancestry can be seen in the natives. To the east, notably in the Fijis, the Melanesians are mixed with the Polynesians.

Melanesians are not such accomplished sailors and fishermen as are the other Pacific islanders, but they are better farmers. They raise taro plant, sweet potatoes and yams, bananas, squashes, and pumpkins. Domestic pigs and small game provide meat.

Although their social and political customs are crude, Melanesians are skilled in wood carving and other decorative arts. In former times they were feared by neighboring islanders and explorers because of their cannibalism—which was associated with their religious and warlike rituals. Cannibalism has become practically extinct.

Micronesia-The "Small Islands"

The people of Micronesia are a mixed group. Those of the western islands resemble-the Malays or the Filipinos. They are small in stature and have coppery brown skins. They include the natives of the Palau Islands, the Marianas, and the western Carolines. The Malay influence is apparent in their

customs. The chewing of betel nut—a habit common in southwestern Asia—prevails here, but is unknown farther eastward. The people of eastern Micronesia, including the eastern Carolines, the Marshalls, the Gilberts, and the Ellice group, are more nearly like the neighboring Polynesians in appearance and culture.

In contrast both to Melanesia and Polynesia, these small islands have meager resources. There is little soil on the coral foundations of the islands. Although the people are less savage than the Melanesians, they lead primitive lives. In Micronesia are remains of great stone structures erected by the earliest inhabitants of these islands.

Polynesia-Its People and How They Live

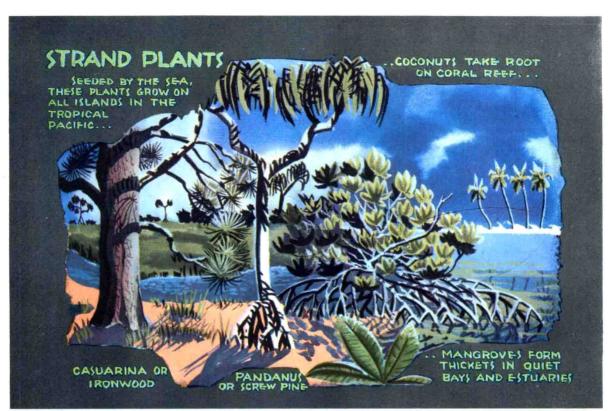
The Polynesians—about whom so many romantic tales have been written—are tall, well-built people. The color of their skin ranges from light brown to almost white. Their black hair is straight or wavy. The women keep their hair well-groomed and scented with coconut oil. Their lips are full and their noses are thick but not flat. In general, the men are handsome, and the women are often beautiful.

Polynesians—or Kanakas, as they are sometimes called—are hospitable, intelligent people. Their political and social organization was once the highest in the Pacific. In their happy and indolent life they long ago lost the desire to work and, consequently, much of their skill in manual arts. They are completely at home in the water or upon it. Among them may be found some of the strongest swimmers, most skillful fishermen, and boldest sailors in the world. These abilities may be a social inheritance from their ancestors. In small boats and without maps or compasses their ancestors had daringly sailed over vast stretches of ocean to these remote islands.

Polynesian Culture

Much of the early Polynesian culture has disappeared, largely because of the influence of European and American visitors and settlers. Missionaries brought Christianity to replace many of the ancient rites, and traders brought manufactured articles as substitutes for native products. Two natural resources, however, continue to be important in the lives of Polynesians—fish and coconuts.

In days past the Polynesians had a rich oral literature made up of legends, myths, and religious chants. Little of this literature remains today, however, and there are almost no traces of their elaborate social organization. Before Christianity was brought to them, the religion of the Polynesians was marked by elaborate rituals based upon faith in magic (see Magic). The practice of taboos, or religious prohibitions, was widespread. Taboos were used in place of laws to protect the persons of chiefs, to shut out the people from certain temples or houses, and for scores of other purposes. To eat taboo food, to lay hands on a taboo person, to enter a taboo dwelling brought upon the offender, according to native belief, grave misfortune or even death.





SOME CONTRASTS IN PLANT LIFE

Here are shown the two types of vegetation typical of the larger islands of the tropical Pacific—the strand plants and those of the dense rain forests. The seeds of the former often fall into the water and so have been carried from island to island by winds and ocean currents.





UNUSUAL ANIMALS OF THE RAIN FOREST

The fruit bats are giants of their kind with wingspreads of three feet or more. The cuscus is a marsupial resembling the opossum in habits. The monitor is the largest of all lizards, reaching a length of eight feet. Immigrant toads were imported from South America into many of the islands to kill insects and have greatly multiplied.