

oin us as we take you on a journey to explore the Pacific Ocean and its inhabitants, including the largest animals on the planet.

Use this Passport to guide your journey. Look for our Passport Stops, and mark your travels at our Embossing Stations.



Aquarium Floorplan

As you enter the Aguarium's Great Hall, look above you and discover a 26 m (88 ft)-long, full-scale model of a blue whale and her newborn calf.

Step up to our Blue Cavern habitat at the end of the Great Hall to start today's journey, and explore the diverse regions of our vast Pacific Ocean.

Also learn about whales the largest animals on our planet—and how these magnificent mammals communicate, eat, and reproduce on a scale so vast it's as large as the Pacific Ocean itself. Find out how we have just begun to understand these animals, what we have done to protect them, and what threatens their future survival. Experience the world through the eyes of a whale today.

Explorers Cove

Lagoon

Bamboo

Bistro

Dusky

Pademelons

Lorikeet Forest



Harbor Terrace



© MIKE JOHNSON

2nd FLOOR



1st FLOOR



Blue Whale



The largest animals on the planet, blue whales today can reach lengths of up to 30 m (100 ft) long. They can be identified by their short stubby dorsal (top) fins, massive size, and their tall, column-like blows that can reach heights of 10 m (30 ft). In June to October, the Southern California coast has the highest concentration of blue whales in the world.

LEGEND



🛉 🛕 Restrooms





Elevators 2





Outdoors

Embossing Station

Have your Passport book embossed at the seven Embossing Stations in the Aquarium, Look for the embossing space on the upper right-hand corner of pages 3,11,13,17,23, 25 & 29.

Passport Stop

Look for Passport Stops at exhibits throughout the Aguarium. The numbers correspond to page numbers in this book.

Animals

Aquarium Information

he Aquarium of the Pacific is organized into three main galleries plus a special exhibits gallery and our outdoor **Explorers Cove with Lorikeet Forest and Shark Lagoon.**

The main galleries highlight the major regions of the Pacific Ocean— Southern California/Baja, the Northern Pacific, and the Tropical Pacific. As you explore the Aquarium, be sure to stop by our hands-on Discovery Labs to touch marine life and hear interesting facts from our education volunteers. And learn even more about our animals at special Discovery Presentations held throughout the day at major exhibits. See your *Today* at the Aquarium flyer for times and locations.

ADDITIONAL ADVENTURES

Whales: A Journey with Giants

Experience our Great Hall transform into the underwater world of the blue whale. Check the Information Center for showtimes.

AnimalVision 3-D*

Enjoy this film that combines stunning state-of-the-art 3-D technology, fun-loving animal characters, and important environmental messages.

Behind-the-Scenes Tour*

See what goes on behind the scenes in this one-hour guided tour. We'll take you through parts of the Aquarium previously off limits to the public, including quarantine, food-prep, life support, and more! Age restrictions apply.

Ocean Experience*

Be a marine biologist for a day as you join the crew of a 90-foot ocean research vessel in collecting and identifying local marine life. Seasonal.

Animal Encounters*

This is your chance to feed the animals with a member of our animal care staff. Age and height restrictions apply. Advance reservations required.

* Additional charge. Please visit the Information Center for times, pricing, and availability.

AOUARIUM MEMBERSHIP

Apply the cost of your admission today to a membership and enjoy the Aquarium all year long. When you become a member of the Aquarium of the Pacific, you're supporting our marine education, conservation, and research. In return, you'll enjoy unlimited FREE admission to our exhibits and members-only events for one full year, plus special discounts on educational programs, trips, and purchases made at the Aquarium stores. Join today at the Information Center or ticket window, and we'll apply today's admission fees (for those who will be listed on your membership) toward the cost of your membership. You can also join online at www.aquariumofpacific.org or you can call (562) 437-FISH(3474).

4

Hours of Operation: 9:00 a.m. to 6:00 p.m. daily

Aquarium closed December 25 and during the Long Beach Grand Prix weekend. For same day re-entry, please ask to have your hand stamped at the exit.

GENERAL INFORMATION

First Aid/Emergencies/Lost & Found
Please proceed to the Information

Center near the main entrance or contact any security associate.

Please Refrain From...

Smoking and gum are not allowed in the Aquarium. Please use trash and recycle bins, and do not toss objects into the exhibits.

Information

Visit the Information Center, located in the Great Hall of the Pacific near the main entrance, to inquire about tours, Aquarium membership, special events, and more.

Café Scuba, Bamboo Bistro, & More Café Scuba on Level 2 serves a tasty selection of sandwiches, salads, and grilled entrees. Bamboo Bistro in Explorers Cove offers yummy pizza, hot dogs, cold beer, and refreshments. The Coffee Cart in the Great Hall serves coffee, capuccinos, sodas, and snacks. Harbor Terrace is open seasonally for sandwiches, salads and more.

Gift Stores

Be sure to stop by Pacific Collections and the Shark Shack, open daily from 9:00 a.m. to 6:00 p.m., for a unique selection of clothing, books, toys, gifts, CDs, and educational items.

Restrooms and Baby Care Station Restrooms and

See map for restroom locations. There are changing stations in the restrooms on Levels 1, 2, and in Shark Lagoon. The baby care station is located in the Level 1 (first floor) women's restroom.

Visitors With Disαbilities
Wheelchairs are available at the Information Center, All exhibits are wheelchair accessible. See map for the location of elevators throughout the Aguarium. Audio tours for guests who are blind are available at the Information Center.

VISA Credit Cards

We accept VISA, MasterCard, and American Express for admission, membership, merchandise, and

food purchases.

Amazing Pictures
Purchase a unique souvenir from your Aguarium visit with this fun photo opportunity located in the Great Hall of the Pacific.

EDUCATION

The Aquarium of the Pacific hosts a variety of fun and engaging programs for both adults and children. We offer a range of exciting educational opportunities for those just discovering marine life as well as those looking to further expand their knowledge of the ocean and surrounding issues. From Aqua Tot Adventures to courses and lectures for adults, there is an Aquarium program suitable for every age group that will engage and empower. For more information, call (562) 951-1630 or pick up a brochure at our Information Center.

BECOME AN AQUARIUM VOLUNTEER

Do you want to make a difference? Join our team of more than 800 volunteers who help us achieve our mission of ocean education and conservation. Be a guest ambassador, educator, diver, and more. For information on becoming a volunteer, pick up an application at the Information Center, visit our Web site at www.aquariumofpacific.org, or call (562) 951-1659.

5



Species with the Vanishing Animal symbol are listed as threatened or endangered under the United States Endangered Species Act or are listed on the IUCN-World Conservation Red List.

WHALES a journey with giants

Pacific in Whales: A Journey with Giants. Through a compelling multisensory experience of light, sound, and imagery, the Aquarium's Great Hall will transform into the underwater realm of the planet's largest living animal—the blue whale. Follow a blue whale and her calf on their travels along our coast and to the dark depths of the ocean. Discover the remarkable animals they encounter along the way. Watch sea lions play. Encounter humpback and killer whales. And discover sea jellies, swordfish, deep sea creatures, and the impressive great white shark. Whales: A Journey with Giants is a five minute experience that takes place in the Great Hall throughout the day. Please see the Information Center for showtimes.

To understand how a whale lives, you need to think outside of your daily reality. Imagine living in almost total darkness, breathing air but living your entire life in water, and traveling hundreds of miles to find food and even thousands of miles to raise your children. How would you find a mate across these vast distances and accomplish all of this without any technology? It is only when we realize their size, how they communicate and navigate, and the vast scale of their home ranges that we truly begin to understand the mysterious world of whales, our potential impacts on them, and what we must do to ensure their survival.













Official Summer Sponsor:

BLUE CAVERN

GREAT HALL



The Blue Cavern habitat in the Great Hall is modeled after Blue Cavern Point, a kelp forest along the eastern coast of Santa Catalina Island. This represents the underwater habitat you would find both along our coast and local islands. Look for the pair of giant sea bass in the exhibit as well as the model on the wall. Giant sea bass are listed internationally as critically endangered. The two you see in this exhibit are the only breeding pair in the world in a protected environment. The Aquarium has already witnessed some initial successes in breeding these animals.



Bat ray Myliobatis californica



California barracuda Sphyraena argentea



Yellowtail Seriola lalandi



White seabass
Atractoscion nobilis



California sheephead (male) Semicossyphus pulcher



California sheephead (female) Semicossyphus pulcher



Shovelnose guitarfish Rhinobatos productus



Kelp bassParalabrax clathratus

Giant sea bass

Stereolepis gigas



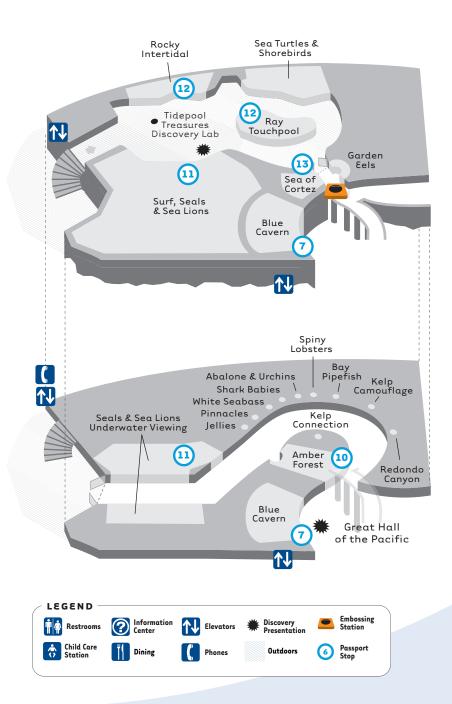
Ocean whitefish Caulolatilus princeps



Southern California/Baja

xtending 1,269 km (800 miles) from Oregon to Mexico, the California coast includes a variety of ecosystems. From kelp forests teeming with life and biologically productive wetlands to extreme environments such as tidepools, each habitat is home to an array of life forms. The Southern California and Baja coasts serve as critical habitats for numerous whales. They provide places for them to eat, breed, and to raise young whales. Great whales such as blue, gray, humpback, and fin and common dolphins all spend part of their lives along these coasts. Each year residents can see these animals, especially gray and blue whales, as they pass right by our shores.







AMBER FOREST



SOUTHERN CALIFORNIA/BAJA

Our Amber Forest represents the diversity of marine life that depends on kelp forests for food, for protection, and for breeding.

Gray whales have been known to use kelp forests to hide their young from predators and find food. Although grays are the first whales to be removed from the Endangered Species List, they still face numerous threats, including pollution and global climate change.



Pacific sardine Sardinops sagax



Black surfperch Embiotoca jacksoni



Zebra perch Hermosilla azurea



Oxyjulis californica

Senorita

Giant spined sea star *Pisaster giganteus*



California scorpionfish Scorpaena guttata



Salema Xenistius californiensis

CULTURAL FACT

Hypsypops rubicundus

Garibaldi

Our local Native American cultures, the Tongva/Gabrielino and Chumash have witnessed whales along our coast for generations. Native peoples believe that all life is interconnected and that what happens to whales also affects people. Whales, referred to as *paxat* in the Chumash language, were used for food, offerings, houses, and protected the Chumash and Tongva ancestors. This reverence for whales is depicted in Tongva cave pictographs found on San Nicolas island off our coast.

SEALS & SEA LIONS

SOUTHERN CALIFORNIA/BAJA



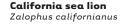
Sea lions live throughout our coastal

waters. Their local breeding grounds are protected in the Channel Islands National Park and Channel Islands National Marine Sanctuary. During the summer 75,000-120,000 California sea lions can be found in the Channel Islands. In the winter these same areas serve as breeding grounds for more than 55,000 elephant seals. Five pinniped species, including the harbor seal, use these important islands throughout the year. To find out more about this sanctuary and how to visit it, go to www.cinms.nos.noaa.gov.

Eastern Pacific Gray Whale Eschrichtius robustus

Gray whales can be identified by their lack of a dorsal (top) fin, heart-shaped blows, and extensive barnacles and gray patches. With one of the longest migrations of any mammal, gray whales pass by our coast each year as they swim to and from Alaska to eat and Baja to breed and raise their young. They can travel as many as 16,000 km (10,000 miles) each year. The best time to spot them off our coast is from December to April.





Harbor seal
Phoca vitulina



ROCKY INTERTIDAL



SOUTHERN CALIFORNIA/BAJA

Tidepools teem with life, including purple sea urchins, giant green anemones, and bat stars.

Each of these animals has adapted specific ways to handle changes in water and salinity levels. Every rising tide brings in water rich with food and oxygen. As the water recedes, it carries away wastes, eggs, and larvae to be dispersed in the ocean.

Be sure to also visit our Tidepool Treasures Discovery Lab and touch some of these local marine residents.



Giant green anemone Anthopleura xanthogrammica



Shiner Surfperch Cymatogaser aggregata



Giant keyhole limpet Megathura crenulata



Bat star Patiria miniata



RAY TOUCHPOOL



Reach into our Ray Touchpool and gently feel one of our rays or shovelnose guitarfish. These local residents live along the sandy bottom of our beaches where they feed on mussels, clams, and crustaceans. Rays have a small barb at the base of their tails that is used for self-defense. Like a fingernail, these barbs are painlessly clipped on the animals in this exhibit.



Purple sea urchin Strongylocentrotus purpuratus



Warty sea cucumber
Parastichopus parvimensis

SEA OF CORTEZ (13)

SOUTHERN CALIFORNIA/BAJA

The Baja Peninsula extends south of the United States along the west coast of Mexico to the Sea of Cortez. The Sea of Cortez (Gulf of California) was formed when part of Mexico separated from the mainland as a result of plate tectonics. Because of its variety of marine habitats and complex geological history, the Sea of Cortez is considered one of the world's most biologically productive and diverse seas. This unique environment is home to some very interesting animals, including the vaquita. The Sea of Cortez also serves as critical wintering grounds for blue, fin, and humpback whales. The Mexican government has established several reserves to protect these important areas.





At only 1.2-1.5 m (4-5 ft) long, the vaquita, a porpoise, is considered to be the smallest whale. This rare and elusive animal lives in the extreme northern end of the Sea of Cortez, close to the Colorado River Delta. With a population of only 100-300 individuals, the vaquita is extremely endangered. One of the biggest threats it faces is loss of habitat due to overuse of the water in the Colorado River, which drains into the Sea of Cortez.



Mexican lookdown Selene brevoortii



Balloonfish Diodon holocanthus



Popeye catalufa Pristigenys serrula



Long-nose hawkfishOxycirrhites typus

Thalassoma lucasanum

Cortez rainbow

wrasse (male)



King angelfish Holacanthus passer



Barberfish Johnrandallia nigrirostris

Northern Pacific

his gallery represents the northern-most region of the Pacific Ocean, specifically habitats in and around the Bering Sea, which covers over 2,071,990 km² (800,000 square miles) between Alaska, Siberia, the Bering Strait, and the Aleutian Islands.

Here, an upwelling of cold water replaces the warmer surface water creating temperatures below 12° C (54° F). Numerous whales use these

(14)

WHALES: VOICES IN THE SEA

Presented by Pacific Life Foundation

Step up to this touch screen exhibit and explore how whales use complex sounds to communicate and navigate through their world. Hear the voices of six whale species, learn about their differences, and record your own version of whales sounds.

Discover how the humpback, sperm, gray, blue, beaked, and northern right whales use sound—which travels efficiently underwater—to communicate in darkness and across vast distances. And learn the key characteristics of each animal and their conservation issues.

plentiful waters to feed, including the orca (killer), gray, sperm, and humpback. Researchers are currently engaging in an international effort to study humpback whales throughout the world, including the Northern Pacific. This cooperative research project, called SPLASH (Structure of Populations, Levels of Abundance and Status of Humpbacks), is identifying and collecting information so we can better understand these animals and how we are impacting them. The National Marine Sanctuary Program is participating in the SPLASH research project.

> The National Marine Sanctuary Program is part of NOAA (National Oceanic and Atmospheric Administration) and was created in 1972 to preserve our nation's marine treasures, including important habitats for numerous species of whales.





Visit this interactive painting entitled From Sea to Shining Sea: A Celebration of Marine Sanctuaries in our Northern Pacific Gallery. The centerpiece of the exhibit is a painting by artist Robert Lyn Nelson that depicts marine animals and plants that are found in our nation's marine sanctuaries. The exhibit also



features a digitized version of the painting on a touch screen monitor, which allows you to learn more about the marine life. This exhibit was made possible by the National Marine Sanctuary Foundation (www.nmsfocean.org).

<u>14</u> <u>15</u>

SURGE CHANNEL

16

NORTHERN PACIFIC GALLERY

Crashing waves, extreme changes in temperature and salinity, and exposure to air are some of the elements tidepool animals must contend with to survive.

For many, just hanging on is the top priority. Snails have muscular sticky feet. Sea stars, sea cucumbers, and sea urchins have tube feet that act as suction cups. Barnacles produce glue from their heads. And sea anenomes secrete a sticky substance to keep from floating away.



Quillback rockfish Sebastes maliger



Copper rockfish Sebastes caurinus



Red Irish lord Hemilepidotus hemilepidotus



Buffalo sculpin Enophrys bison



White-spotted rose anemone
Urticina lofotensis



Canary rockfish Sebastes pinniger



WHALE VOYAGES

16

Whales use vast areas of the ocean to feed, breed, and raise their young. In the Pacific Ocean, they spend time throughout the Northern Hemisphere, including the Bering Sea, Hawaiian Islands, Central America, and parts of Asia. In additon, some are known to dive to depths of up to 3,000 m (9,800 ft) to find food. To better understand and protect these animals we must look to study and conserve their entire home range.

DIVING BIRDS

17

NORTHERN PACIFIC GALLERY

Living in and above the icy waters of the Northern Hemisphere, puffins, auklets, and other diving birds spend most of their lives on the open ocean. In the summer months, they use the rocky coasts and islands for breeding. During this time Crested Auklets emit a distinct tangerine scent.



Pigeon Guillemot Cepphus columba



Crested AukletAethia cristatella



Tufted PuffinFratercula cirrhata



Horned Puffin Fratercula corniculata

17

Killer Whale Orcinus orca



The orca or killer whale is easily idenified by its black body and white eye patch. This toothed whale is very social, living in pods or groups of up to 150 individuals. Each pod develops its own unique dialect, usually stays together for life, and engages in cooperative hunting.



SOUTHERN SEA OTTEREnhydra lutris nereis



Sea otters, which are protected animals, still face many threats, including pollution. One recent example illustrates how changes in the balance of an ecosystem can have unpredictable results. In 1998 orcas began to prey on northern sea otters in a region of Alaska. Because stellar sea lions and harbor seals—the orca's primary diet—have declined in numbers, these whales were forced to seek sea otters as an alternative food source. Scientists are now monitoring how this will affect the future of this sea otter population.

Tropical Pacific

he Aquarium's Tropical Pacific Gallery represents the archipelago of Palau, the western-most section of the Micronesia islands. Palau's waters contain an incredible diversity of coral, fish, and other marine animals. They are home to sharks, seahorses, stonefish, sea turtles, and many others.

GREEN SEA TURTLES

Although 250 species of turtles inhabit the world today, only seven of these are sea turtles. Uniquely adapted to life underwater, sea turtles navigate vast distances through the ocean and rest on coral reefs. Most sea turtles are listed as threatened or endangered. The turtles you see in the Aquarium's Tropical Reef Habitat are East Pacific green turtles.



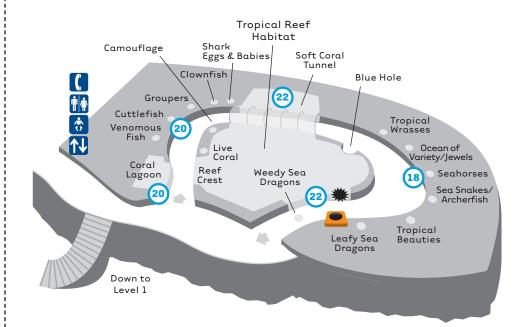


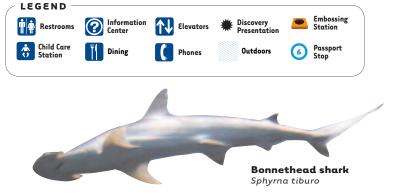


Seahorse

Hippocampus erectus

Unlike most animals, male seahorses, not the females, carry the eggs and give birth to the young. The Aquarium has a successful seahorse breeding program.







Rockmover wrasse
Novaculichthys taeniourus

AMAZING FACTS

Water covers 71% of the Earth's surface. About 4 billion years old, the World Ocean averages 3,800 m (12,460 ft) deep—that's the same as 8 1/2 Empire State buildings stacked on top of each other. Most of the ocean is in total darkness with temperatures averaging 3.9° C (39° F). It is home to at least 250,000 known species and many yet to be discovered.



CORAL LAGOON



TROPICAL PACIFIC

Our Coral Lagoon is habitat for many animals that have developed very specific adaptations to capture and consume their meals as well as to avoid becoming someone else's prey. Through specialization, coral reef animals have found ways to co-exist in a very dense and competitive environment. As the future of reefs are threatened, so too are the diverse animals that have adapted to survive in this unique environment. Coral reefs, also known as the rainforests of the sea, face a variety of threats, including pollution, global climate change, and destructive fishing practices.



Parrotfish Scarus sp.



Goatfish Family Mullidae



Bird wrasse (male)
Gomphosus varius



Guineafowl puffer (golden phase)
Arothron meleagris



Picasso Triggerfish
Rhinecanthus aculeatus

CAMOUFLAGE



TROPICAL PACIFIC

Like the stick insect that resembles a twig and the tiger that blends in with the tall grass, ocean animals have also developed ways to go unnoticed. Whether it's looking like a rock to surprise prey or mimicking gravel to fool predators, camouflage is an effective survival strategy that comes in many forms. Nowhere are camouflage techniques stranger than in the ocean. Animals like the weedy scorpionfish have fins and skin coloration that blend in beautifully with the surrounding algae. And flounders change their eye position, body orientation, and color as they mature to ensure that they blend in perfectly with the ocean bottom. Look for some of these masters of disquise throughout our Tropical Pacific Gallery.



Weedy Scorpionfish *Rhinopias froudosa*



Stonefish Synanceia verrucosa



FlatfishesOrder Pleuronectiformes

Whale Research

The Tools Behind The Ocean's CSI Detectives



They are big, fast, travel vast distances, and spend most of their time below the ocean's surface. So how do scientists study these elusive animals? Visual observation has long been the "tried-and-true" way of studying cetaceans (whales) and is still used extensively. However, today scientists also have at their disposal a wide array of "high tech" methods—many only developed in the past few years. By using a combination of the old and the new, we're beginning to understand a little more about these gentle giants of the deep.

John Calambokidis, a scientist with Casadia Research, studies the travels of humpback, blue, and gray whales. Using high-powered binoculars, a camera, and his own observation skills, he photo-identifies these animals based on skin mottling, and coloration and scarring of the tail (fluke). Future sightings of an identified animal may be useful in determining the distance it travels and where it feeds and breeds. Data on many identified whales provides information about population sizes and distribution

John Hildebrand, an oceanographer at the Scripps Institution of Oceanography and a whale acoustics expert, and Erin Oleson, a graduate student, are using an instrument called a FLIP (Floating Instrument Platform) to study fin and blue whale behavior. Underwater listening devices, called hydrophones, hang at varying depths from the FLIP and detect whale sounds. Another instrument measures ocean salinity and temperature at the corresponding depths. And other devices attached to whales record depth changes during dives and can even tell whether a whale's head is up or down!

Scientist Don Croll at the University of California, Santa Cruz links new technology with visual observation to study fin, humpback, and blue whales. Collecting fecal samples in dip nets helps determine what whales eat, while towing long nets collects plankton for laboratory analysis to determine species mix as well as to make quantity (biomass) estimates. Recorders attached to whales monitor diving behavior and help Croll understand how these animals feed at varying depths. Other tools used to study whales include ship and satellite-monitored radio tags, DNA analysis of skin biopsies, and echo sounders.

Despite advances in technology and the efforts of many dedicated scientists, we still have much to learn about whales and how we are affecting their future survival.





TROPICAL REEF



TROPICAL PACIFIC

The Tropical Reef Habitat is the Aquarium's largest exhibit, containing 350,000 gallons of water and over 1,000 animals from the tiny cleaner wrasse to the sleek blacktip reef shark. This exhibit represents the famous Blue Hole off the coast of Palau. This area, lush and abundant with life, is considered one of the most beautiful dive sites in the world.



Blacktip reef shark Carcharhinus melanopterus



Yellow tang Zebrasoma flavescens



Palette tang Paracanthurus hepatus



Bluefin trevally Caranx melampygus



Orangespine unicornfish Naso lituratus



Bluespine unicornfish Naso unicornis



Sergeant major Abudefduf troschelii



Raccoon butterflyfish Chaetodon lunula



Emperor angelfish Pomacanthus imperator



Semicircle angelfish Pomacanthus semicirculatus



SHARKSUCKER

Echeneis naucrates

The sharksucker, similar to the remora (Remora remora). has a dorsal fin that has evolved into a large suction disk that allows the fish to latch onto sharks, turtles, whales, and even ships. This helps protect the sharksucker from predators, conserves its energy, and gives it access to scraps from its host animal.



Golden trevally Gnathanodon speciosus



Forcepsfish Forcipiger flavissimus



Oriental sweetlips (adult) Plectorhinchus vittatus



Blue-green chromis Chromis viridis



Coral cardinalfish Sphaeramia nematoptera



Redtooth triggerfish Odonus niger



Picasso triggerfish Rhinecanthus rectangulus



Clown triggerfish Balistoides conspicillum





Napoleon wrasse Cheilinus undulatus



Reaching sizes of up to 2 m (7 ft) in length and over 181 kilograms (400 pounds), Napoleon or humphead wrasses usually live in the outer areas of coral reefs. They spend their days roaming the reef and return back to the same cave or ledge each night to rest. When they mature, Napoleon wrasses may change sex from female to male.



Humpback whales are identified

by their long pectoral (side) fins

dorsal fins, bushy-shaped blows, and V-shaped flukes (tails) with rough edges. They are well known for their impressive breaching

edged with small bumps, low

where they rocket themselves

into the air. Humpback whales

travel to warm tropical waters in

the winter to give birth. They can

be found in the Hawaiian islands from November to February. These breeding grounds are protected by the Hawaiian Islands Humpback

Whale National Marine Sanctuary.



SEA JELLIES



OPEN OCEAN

Experience more than a dozen different species of sea jellies. These mysterious animals have no eyes and no brain, yet they have thrived in our oceans for more than 550 million years. Depending on the species, a sea jelly may have up to 800 tentacles that bear stinging cells called nematocysts. When the tentacles touch another object, thousands of the stinging cells involuntarily explode, launching barbs into potential predators and prey.



Fried egg jelly
Phacellophora camtschatica



Purple striped jelly Chrysaora colorata



West Coast sea nettle Chrysaora fuscescens



Lagoon jelly Mastigias papua



Moon jelly Aurelia labiata and A. aurita



Leidy's comb jelly Mnemiopsis leidyi

WHALE DIVE

Many whales make impressive dives well beyond the reach of light. Here's how far different species have been known to dive





Humpback whale







350 m (1148 ft)Blue whale



1000 m (3300 ft) Baird's beaked whale



LIFE IN DARKNESS

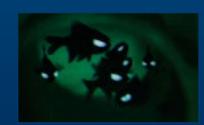
(25)

OPEN OCEAN

As you descend deeper into the ocean, past twilight where plants cease to grow, through the deep ocean where no light penetrates, you finally reach the pitch black abyss. Here the pressure is immense, oxygen is scarce, and the temperature is a bone-chilling 2° C (36° F). Over 90% of the ocean is beyond the reach of light. Here animals must have special tools, like bioluminescence or migrate to higher levels at night to find food, or wait patiently until a dead whale or another animal falls from above to feed on.



PineconefishMonocentris japonica



Flashlightfishes Anomalops katoptron and Photoblepharon palpebratum



Baird's Beaked Whale Berardius bairdii

Most Baird's beaked whales can be identified by a dolphin-like beak, large forehead, extensive scarring on their bodies, and large size—10 m (33 ft). These whales spend most of their time in the open ocean and routinely dive to more than 1,000 m (3,300 ft). They feed on or near the bottom of the ocean where they use suction to capture their prey. Very little is known about these mysterious animals.

© NANCY BLACK





Chambered nautilusNautilus pompilius



ISLAND ANIMALS



EXPLORERS COVE

Come discover some of the unusual animals found only on islands in the Pacific Ocean.

Islands, along with their inhabitants, are an important part of the entire ocean ecosystem. Learn why these animals and other island residents around the world face significant threats.



Prevost's squirrel (Callosciurus prevosti)

Found in Southeast Asia and Indo-Pacific islands, Prevost's squirrels live mainly in trees and are becoming increasingly rare due to habitat destruction and overcollection for pets.

The dusky pademelon is located near the Shark Lagoon underwater viewing window.



Dusky pademelon (Thylogale brunii)

Found in New Guinea, the dusky pademelon is a member of the kangaroo and wallaby family. Their status is currently listed as vulnerable.

26



(Arctictis binturong binturong)

Found in the dense forests of Southeast Asia east through the Indo-Pacific islands and Malaysia, binturongs spend much of their lives in the trees. The buttery popcorn-like smell near this exhibit is an oily musk given off by the scent glands of the binturong. Rubbed on branches, the musk marks the binturong's territory. The subspecies of binturong that lives in Borneo and Sumatra is currently listed as threatened.

CONSERVATION ISSUES

Because they evolved in relative isolation, island animals and plants are particularly vulnerable to outside threats, such as invasive species and changes to their habitat. By protecting fragile island ecosystems and using selective measures when harvesting natural resources, we can limit the impact we have on these animals and their homes.



LORIKEET FOREST



EXPLORERS COVE

Purchase a cup of nectar and step into our Lorikeet Forest. These Australian birds will land on your hand, arm, and even your head to get a sip of their favorite food. Lorikeets are able to drink nectar easily because of a special tongue. Look closely as the bird sips the nectar. Notice the tongue's fuzzy appearance. This is due to tiny projections called papillae, which increase the surface area of the tongue. Like a sponge, these help the birds soak up large amounts of nectar.

RAINBOW LORIKEETS



Swainson's Lorikeet Trichoglossus haematodus moloccanus



Edward's Lorikeet Trichoglossus haematodus capistratus



Green Nape Lorikeet Trichoglossus haematodus haemotodus



Pale Head
Lorikeet
Trichoglossus
haematodus caeruleiceps



Forstens Lorikeet Trichoglossus haematodus forsteni

OTHER LORIKEET SPECIES



Violet-necked Lory Eos squamata riciniata



Ornate Lorikeet Trichoglossus ornatus

27

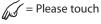
SHARK LAGOON



EXPLORERS COVE

Visit Shark Lagoon and learn more about the ocean's most mysterious and misunderstood predator. Step up and touch a nurse shark or bamboo shark, and peer into the depths to see sandtiger sharks, as well as rays and our sawfish. These remarkable denizens of the deep are critical links in the ocean food chain. Without sharks, our oceans would undergo drastic and devastating changes. For the health of the ocean and planet, it is important that we learn to respect and protect sharks and their habitats.

PLEASE NOTE: to continue your journey to Southern California/Baja, proceed up the stairs or elevator and return to page 12 "Rocky Intertidal."





White-spotted bamboo shark

Chiloscyllium plagiosum



Brown-banded bamboo shark

Chiloscyllium punctatum



Epaulette shark Hemiscyllium ocellatum





StingrayDasyatis sp.

Zebra shark (Juvenile) Stegastoma fasciatum

SAWFISH

Pristis microdon

Related to sharks and rays, the sawfish uses its "saw" for both hunting and defense. It can be used to immobilize fish and to dig through sand to dislodge invertebrates. At birth, a newborn sawfish's snout is flexible and wrapped in a fibrous sheath. After a few days the sheath wears off, and the pup's snout hardens into a rigid saw.



Whitetip reef shark

Triaenodon obesus



Nurse shark Ginglymostoma cirratum





Urogymnus asperrimus



Stegastoma fasciatum



Sand tiger shark Carcharias taurus



Sperm WhalePhyseter macrocephalus

The largest of the toothed whales, sperm whales are easily identified by their square-shaped heads and wrinkly skin. They can reach lengths of up to 17 m (59 ft). They are one of the deepest diving whales, achieving depths of 3,000 m (9,800 ft) to hunt their favorite prey—the giant squid.

FOR THE HEALTH AND SAFETY OF OUR ANIMALS, PLEASE BE GENTLE!



Sharks you can touch, gently with **two fingers**.





28

HONDA THEATER

30

GREAT HALL



ANIMALVISION 3-D

Experience the icy north with a polar bear family, frolic in the ocean with a sea turtle, and play ball with apes and other rainforest inhabitants as you meet some of the many animals that depend on people for their futures. AnimalVision 3-D is an animated adventure that

takes you and your family across the globe to see how our actions at home are affecting the animals with which we share this planet.

During your journey, discover the effects of global climate change, destructive fishing practices, and tropical deforestation—some of the most pressing environmental issues that are threatening our entire planet. AnimalVision 3-D combines stunning state-of-the-art 3-D technology, fun-loving animal characters, and digital animation with important environmental messages. It's an adventure you won't soon forget!

See Information Center or Theater Kiosk for show times and prices.







OTHER FILMS

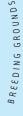
See Information Center or Theater Kiosk for other films showing in the Honda Theater during your visit.

Activity Whales

and take care o ind out wher acific Ocean umpback ıeir way

FOOD SOURCE

SOURC







The Aquarium of the Pacific is a nonprofit 501(c)3 institution with a mission to instill a sense of wonder, respect, and stewardship for the Pacific Ocean, its inhabitants, and ecosystems. We rely heavily on the generous donations of individuals and organizations.

During your visit you may be filmed, videotaped or photographed by an Aquarium of the Pacific employee, volunteer, or contract service professional. Your admission to our facility serves as permission for use of your image by the Aquarium of the Pacific and its constituents. The commercial use of photographs, video, and film you may have taken during your visit is strictly prohibited without the full written consent of the Aquarium of the Pacific.

AQUARIUM DIRECTORY

(AREA CODE 562)

General Information:	590-3100
Membership Information:	437-FISH(3474)
Group Tours & Reservations:	951-1695
Special Events & Private Parties:	951-1663
Education Programs:	
Gift Store:	951-1732
Volunteer Opportunities:	
Cafe Scuba:	951-1740
TDD:	951-3140
Website:	www.aquariumofpacific.org

A JOURNEY WITH GIANTS IS SPONSORED BY:









Official Summer Sponsor:



100 Aquarium Way Long Beach, CA 90802

www.aquariumofpacific.org





Cost: 50¢