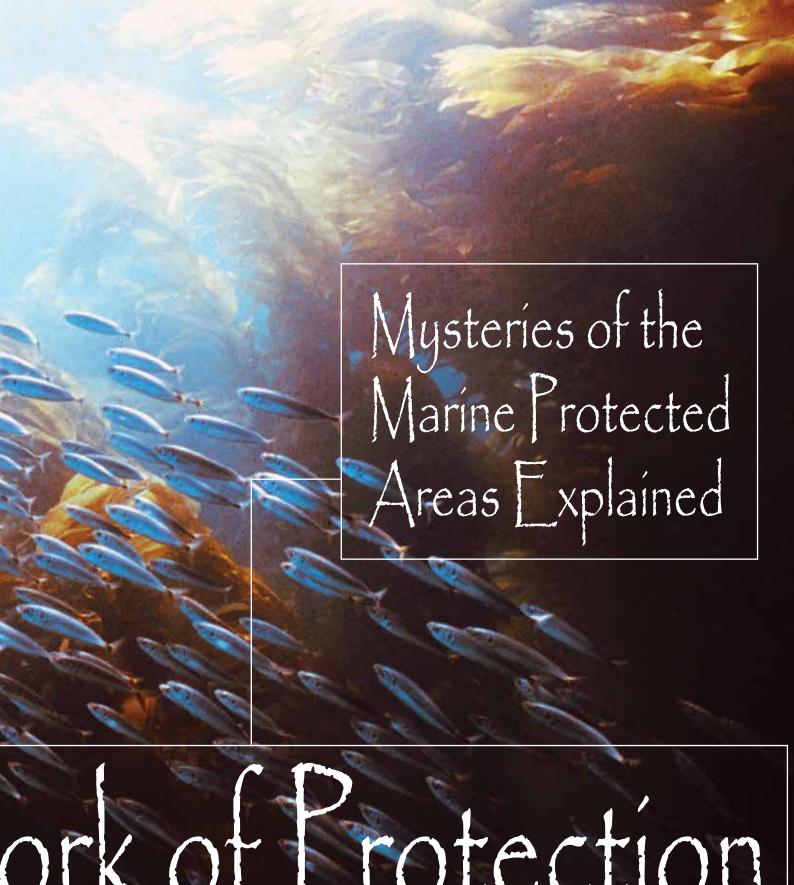
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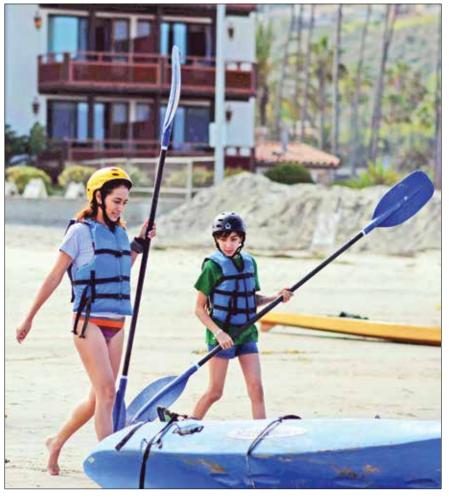






Network of Marine Protected Areas Offers a New Way to Guard Ocean Species

ost people know that California is nicknamed the Golden State, but many are unaware that a kaleidoscope of jewels has been added to the gold. Sprinkled along the coast, their vibrant colors—red, blue, purple, pink, green and yellow—represent the state's network of marine protected areas, or MPAs.



On maps and posters developed by the California Department of Fish and Wildlife, the bright colors correspond to the type and amount of protection MPAs provide to marine life. Red, for example, signifies state marine reserves, where everything—living, geological or cultural—is fully protected. Blue signifies state marine conservation areas where certain types of recreational or commercial fishing may be allowed. Different levels of protection exist within each type of MPA.

Like state and national parks, MPAs are places where people meet, play and appreciate nature. Establishing MPAs has roused a variety of reactions from the people who live within the borders of the state. Some worry that livelihoods and traditions tied to the sea will be threatened by MPA restrictions. Others are pleased that MPAs offer help in protecting essential marine ecosystems.

The MPAs remain a mystery to some people, partly because the areas aren't as accessible or easy to experience as California's redwood forests or rolling golden hillsides. Although widely known marine explorers such as the late Jacques-Yves Cousteau and National Geographic explorer-inresidence Sylvia Earle have given people brief glimpses of the beautiful, thriving communities that exist in ocean waters, the question remains for many people: What are MPAs?





"MPAs are areas close to the beach, where you go to have fun," said 12-year-old Eliana Rodriguez from Chula Vista. "They protect the animals so they won't die. They'll be there for future generations."

Eliana and her sister, Maite, recently paddled kayaks through South La Jolla State Marine Reserve in Southern California with their Girl Scout troop. The girls watched, fascinated, as giant kelp swayed back and forth and a

myriad of life including bright orange garibaldi swam around and under their boats.

"I think MPAs are good for the animals," Eliana said.

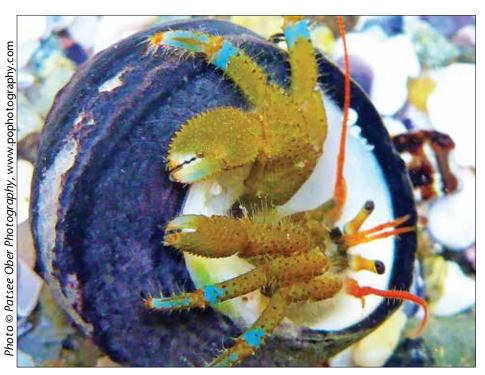
Diane Castaneda, who served as the troop's guide for the kayak tour, works for

Off the California coast are designated 119 MPAs, five state marine recreational management areas and 15 special closures. The coastal network was completed in December 2012.

the international conservation nonprofit group called WiLDCOAST. Castaneda said the organization works to conserve marine places around the world and to educate young people about their importance.

Castaneda comes from a long line of fishermen on her mother's side, and says she appreciates the ocean as a source of food. She is also passionate about the need to conserve coastal and marine ecosystems and wildlife. She said her views align with the organization she works with. "We want to protect marine ecosystems not only for sustenance but also as a sort of

Network of Protection Continues on Page 34



Blue speckles mark this brilliant orange juvenile garibaldi (top), at Dana Point State Marine Conservation Area. The garibaldi is one of the northernmost members of the damselfish family. Designated as the California State Marine Fish by the California Legislature in 1995, the garibaldi may not be harvested by commercial or recreational fishermen. As an adult, the garibaldi loses its blue speckling but remains a solid, vivid orange. Hawk Rosales (middle), is the executive director of the InterTribal Sinkyone Wilderness Council. The council represents 10 tribes in northern California's Mendocino and Lake counties and participated in the establishment of the state's marine protected areas. A little crab (bottom) spends much of its time scavenging for scraps of food in the tidepools of Laguna Beach State Marine Reserve. Blueband hermit crabs are the ultimate recyclers; not only do they eat stray bitsof giant kelp and dead animal matter, they also seekout dead black turban snails, clean out their shells and use them as homes.







Network of Protection

CONTINUED FROM PAGE 30

legacy for future generations, she says. "Our local MPAs are a part of that effort."

CDFW Marine Region Manager Craig Shuman describes MPAs as portions of the ocean set aside to protect and conserve marine life and habitats. CDFW led the effort

to develop the state's MPAs, and now heads up various projects to implement the MPA network.

"Each individual MPA is part of a conservation network that extends all along the California coast," Shuman said. "This network can provide us with a unique glimpse into the structure of marine communities that are protected from some human impacts."

Off the California coast are 119 designated MPAs, five state marine recreational management areas and 15 special closures. The coastal network was completed in December 2012.

"We encourage people to explore and learn more about the rocky coasts, sandy beaches, and underwater habitats of our MPA network, as well as respect and cherish the

MLPA Required Redesign of Effort to Protect Ocean Species

assed by the California State
Legislature in 1999, the Marine
Life Protection Act (MLPA)
required the California Department
of Fish and Wildlife to redesign its
system of marine protected areas to
increase its coherence and effectiveness at protecting the state's marine
life, habitats and ecosystems.

The state was divided into four coastal regions, each of which had its own marine protected area planning process. A public-private partnership commonly referred to as the MLPA Initiative was established to lead the planning processes. Development was guided by input from state and federal agencies, scientists and local stakeholders. The stakeholders included anglers, conservationists, educators and business owners. The coastal portion of the network was completed in December 2012.

It takes many years of scientific documentation before conclusions can be reached about how well MPAs are meeting conservation goals; academic researchers, state biologists and others are diligently monitoring and measuring progress at many of the sites. For more information, go to the CDFW's Marine Protected Area webpage at www.dfg. ca.gov/marine/mpa/monitoring.asp.









MPAs for their intrinsic value and the roles they play in the marine environment," he said.

The ocean is considered a sacred source of life that contributes to the well-being of everything on the planet, according to Hawk Rosales, executive director of the Inter-Tribal Sinkyone Wilderness Council. The council represents 10 tribes in northern California's Mendocino and Lake counties.

The newest MPAs along the state's north coast represent an important part of what Rosales called a sacred environment. He praised the efforts of the wilderness council in working with others for the establishment of the marine protected areas. "They will ensure the continuation and renewal of important marine species that are of great cultural importance to the tribes of this region," he said.

The MPAs provide ecological protections to designated areas while formally recognizing the traditional, non-commercial gathering harvesting and fishing practices of 22 federally recognized northern California tribes. Rosales said the recognition allows them to continue harvesting as their ancestors have "since the beginning of time."

Along the central coast, the Stagnaro family has owned a sport fishing business on Monterey Bay for the better part of the 20th century. Ken Stagnaro runs the family business today, still taking recreational anglers out fishing for bottom fish, salmon and other sport fish.

Stagnaro sees MPAs as one more government restriction that hampers his ability to take anglers where the fish are biting best. He says he has lost some of his hard-core anglers in part because some of the spots he used to visit, including those in Año Nuevo State Marine Conservation Area, are no longer open to sport fishing.

"I'm sure the intentions were good, but, to me, I think MPAs are overkill," Stagnaro says. "I'm not convinced they're necessary."

To make up for any lost revenue, he said the family business has added services, such as tours designed for whale watching, and memorial voyages for scattering remains. "I'm making the business work in other ways besides fishing," he said. "People have to move on."

Jim Holden is an avid ocean angler who lives in San Clemente. One of his favorite fishing spots is off the Ritz-Carlton Hotel in Laguna Niguel, now a part of Dana Point State Marine Conservation Area off Southern California. "MPAs don't affect me all that much where we go fishing off Dana Point," he says.

Sport fishing is allowed with fishing lines and spear guns in this MPA. Additionally, sea urchin and lobster can be taken by divers, and use of a hoop net for

Network of Protection Continues on Page 47 the smuggler would contact border patrol agents the next time he left to pick up contraband. The bad guy was going to lead undercover agents to the additional traffickers.

Potter made a call to a fellow warden in Los Angeles County and requested FBI involvement.

The case appeared strong as Ruben had already given the wildlife officers a map of three businesses where he routinely sold the smuggled clams.

Potter seized the live clams that Ruben

had tried to cross over with this last time. He contacted a California Department of Fish and Wildlife marine biologist who identified them as black clams. Disposition of the clams was easy to determine. The smuggler did not have importer's license or a sport fishing license so the clams would not be returned to him. There were not enough to amount to any commercial value, so after collecting a representative sample, Potter returned the rest to the wild.

Network of Protection

CONTINUED FROM PAGE 35

lobster is allowed. Some commercial fishing for bait fishes, mackerel and squid is allowed in the MPA, but all plant life and all but three types of invertebrates are protected.

Holden runs a nonprofit organization, called Fish for Life!, that regularly joins forces with Dana Wharf Sportfishing to take specialneeds children on fishing trips in and around the MPA.

He believes there must be some wisdom in creating MPAs. "There is obviously a serious reason for MPAs, and if it is in the best interest of protecting certain species (then) I'm

generally in favor of very limited closures," he says. "I think they're meant to help species and populations that are low, give them time to replenish and bounce back. And really, they don't take up that much area."

Holden says that he lost a few of his favorite fishing spots off Laguna Beach, north of Dana Point, where a new state marine reserve was established. "That area is so scenic," he says with a smile. "I can't fish there anymore, but I can still enjoy it while chasing dolphins."

Mary Patyten is a research writer with the Department of Fish and Wildlife's Marine Region. Her stories have appeared before in Outdoor California.

