



SAND CRAB



Classification: Phylum: Arthropoda
 Subphylum: Crustacea
 Class: Malacostraca
 Order: Decapoda
 Family: Hippidae

Size: Carapace length up to 35 mm (1.4 inches); female is nearly twice as large as the male.

Life Span: Two to three years; can reproduce in first year of life.

Range: Alaska to Baja California, Mexico.

Diet: Plankton, mostly dinoflagellates.

Conservation Status: Not listed; biggest threat is habitat loss.



Education Programs
2022 -2023



Sand crabs are found on exposed sandy beaches, in the swash region of the intertidal zone. They spend most of their time buried in the shifting sand and are well adapted to life in this unstable habitat.



With their heads just above the sand, sand crabs wave their feather-like antennae through the surf and catch plankton. They then retract their antennae and scrape the particles into their mouth, while other appendages, called maxillipeds, help prevent sand from also getting into their mouth.



Sand crabs move with the tides, swimming the surf and burrowing into new feeding areas – always backwards! Their paddle shaped legs help them swim and dig quickly into the sand, disappearing in seconds, with just their eyes and feeding antennae showing.



Females brood in the spring and summer, carrying fertilized eggs under the abdomen. After about four weeks, planktonic larvae hatch and take two to four months to transition through five zoea stages and one megalopa stage, until they settle onto the sand. Each female can produce up to 45,000 eggs each month.



Sand Crab *Emerita Analoqa*



Education Programs 2022- 2023

For complete details, please consult www.cabrillosmarinaquarium.org/education/programs-school

Tours

Self-Conducted Aquarium Visits — Explore the Exhibit Hall on your own; reservations required.

Details: Year-round, Wednesday-Sunday, 1-5pm. Fee: Free.

Exhibit Hall Guided Tours — Docent-led tours through the Exhibit Hall, with a stop at the touch tank.

Details: June - March, Tuesday-Friday, 10am. 90-minute program. Fee: Free.

Outdoor Programs

Explore the Shore — Students work together to learn more about the ecology and importance of local shoreline habitats while outside in the Cabrillo Coastal Park. Activities may include observing, sifting and searching for local species and phenomena!

Details: October-June, Fridays, 10am. 90-minute program. Limit 60 students per program (1 adult per 5 students). Fee: Free.

Key to the Sea — Learn about watershed stewardship, stormwater pollution prevention and marine conservation. Program includes outdoor activity and a visit to the touch tank! Teachers are required to attend a Key to the Sea workshop before their field trip. (www.healthebay.org/key2sea/)

Details: October-June, Fridays, 10am. 90-minute program. Limit 60 students per program (1 adult per 5 students). Fee:

Sea Search

Marine Biology Workshops provide hands-on laboratory and field experiences that focus on a wide range of marine biology topics. In the laboratory, activities include the use of microscopes and observation of live marine animals and other specimens. Using scientific field tools, students will explore the flora and fauna of the natural habitats in the tidepools, salt marsh or sandy beach adjacent to the Aquarium. Human Impacts and Conservation issues are incorporated in all classes.

Details: November-June, Tuesday-Friday, 9am or 10am. Three-hour program. Limit 35 students per program. Fee: \$350 for up to 35 students, \$10 for each additional student.

Ocean Outreach

Bringing the Ocean to You! Students will be amazed and engaged through the use of hands-on discovery, specimen investigation and student involvement. We can even bring live marine animals to your school. All of our programs are tailored to grade and age level and designed to spark your students' curiosity and appreciation for the ocean and the extraordinary life in it!

Details: Year-round, Tuesday-Friday, 9am-4pm. One-hour programs/maximum of four programs per day. Limit 30 students per program. Fee: \$170 for first program, \$70 for each additional program. After-school programs (after 2:30pm), \$230 for first program, \$90 each additional program. Extra charge for three or more different topics.

Whale Watching

Take your students to sea to experience whales, dolphins and sea lions in their natural habitat while enjoying a fun boat trip with an experienced guide. Our nutrient-rich waters may provide opportunities to see migrating gray whales, as well as humpback whales, fin whales, bottlenose dolphins, common dolphins, California sea lions, sea birds, and other marine life. Cabrillo Whalewatch volunteer naturalists can provide a live or virtual pre-trip classroom presentation to prepare your students for all that may be seen during the at sea tour.

Details: Year-round, two- to three-hour boat trips departing from various landings. Live or virtual presentation by an experienced naturalist prior to your trip. Call 310-548-7770 to book this program.

Virtual Visits

Join us online as we provide interactive and engaging experiences that focus on a wide range of marine biology topics. Each class includes an introduction with a presentation specifically designed for that topic, in addition to virtual interactions with the live animals at the Aquarium. Conservation issues are incorporated in all classes.

Details: October-May, Tuesday and Thursday, 9am or 10am. One-hour program. Fee: \$200 for up to 70 students.

Schedule Your Program Today as Spaces Are Limited

Learn About Marine Science with Wet Hands and Sandy Feet!

Cabrillo Marine Aquarium is dedicated to promoting appreciation, knowledge, and conservation of the rich marine life of Southern California. Through our many live and interpretive exhibits, seawater laboratories and surrounding seashore habitats, your students have the opportunity to explore the wonders of our neighboring ocean.

Located on the beach in San Pedro, our beautiful Cabrillo Coastal Park includes grassy picnic areas, tidepools, a salt marsh, sandy beaches and a fishing pier, all joined by accessible trails for you and your class to enjoy.

Our programs are LAUSD Board of Education approved and are aligned with the Next Generation Science Standards.

Program Reservations

To make reservations for our programs, please visit our website, www.cabrillosmarinaquarium.org, click on Education, then School Programs.

For more information call 310-548-7562, Monday - Friday from 9am to 5pm.

To help subsidize the cost of your free program, please bring a bag of recycled cans as payment.

	PreK min age 4 yrs	K	1st	2nd	3rd	4th	5th	6th	7th	8th	High School	Adults	Availability	Duration	Cost
Aquarium Programs															
Tours — Discover the aquarium															
Self-Conducted Aquarium Visits	•	•	•	•	•	•	•	•	•	•	•	•	Year-round	90 min.	Free
Summer Tours	•	•	•	•	•	•	•	•	•	•	•	•	Jul-Aug	90 min.	Free
Outdoor Programs — Hands-on learning & coastal experience															
Explore the Shore		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	90 min.	Free
Spring Outdoor Classroom	•	•	•	•	•	•	•	•	•	•	•	•	Mar-Jun	90 min.	Free
Key to the Sea		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	90 min.	Free
Sea Search — Marine biology workshops															
What Lives on the Sandy Beach		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	3 hrs.	Fee-based
Life on the Rocky Shores		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	3 hrs.	Fee-based
Salt Marsh and Plankton		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	3 hrs.	Fee-based
Habitat Comparison		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	3 hrs.	Fee-based
Ichthyology							•	•	•	•	•	•	Oct-Jun	3 hrs.	Fee-based
Ocean Outreach — Bringing the ocean to you															
Adventures of C-Weed the Snail	•												Jun-Feb	45 min.	Fee-based
At Home in the Sea		•	•										Year-round	1 hr.	Fee-based
Treasures in the Tidepools				•	•	•	•	•	•	•			Year-round	1 hr.	Fee-based
Greatest Fish Story Ever Told		•	•	•	•	•	•	•	•	•			Year-round	1 hr.	Fee-based
Thar She Blows! Whale of a Lesson			•	•	•	•	•	•	•	•			Year-round	1 hr.	Fee-based
Shark! It's OK to Go in the Water				•	•	•	•	•	•	•			Year-round	1 hr.	Fee-based
What is Plankton Anyway?				•	•	•	•	•	•	•			Year-round	1 hr.	Fee-based
Squid Dissection				•	•	•	•	•	•	•	•		Year-round	1 hr.	Fee-based
Fish Dissection				•	•	•	•	•	•	•	•		Year-round	1 hr.	Fee-based
Fish Printing				•	•	•	•	•	•	•	•		Year-round	1 hr.	Fee-based
Whale Watching — See whales and dolphins in the wild															
Boat Trip	•	•	•	•	•	•	•	•	•	•	•	•	Year-round	2-3 hrs.	Fee-based
Presentations: Live or Virtual	•	•	•	•	•	•	•	•	•	•	•	•		1 hr.	Free
Virtual Visits — Join us online															
Sandy Beach Habitat		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	1 hr.	Fee-based
Rocky Shore Habitat		•	•	•	•	•	•	•	•	•	•	•	Oct-Jun	1 hr.	Fee-based
Wetland Habitat				•	•	•	•	•	•	•	•	•	Oct-Jun	1 hr.	Fee-based
Diversity of Marine Fishes							•	•	•	•	•	•	Oct-Jun	1 hr.	Fee-based

Service-Learning, Community Service and Teacher Workshops

Opportunities are available to help students fulfill academic service hour requirements. We also offer Teacher Workshops throughout the year.

Please check our website for details, or call 310-548-7562.

Cabrillo Marine Aquarium is a trusted resource that inspires exploration, respect and conservation of Southern California marine life.



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