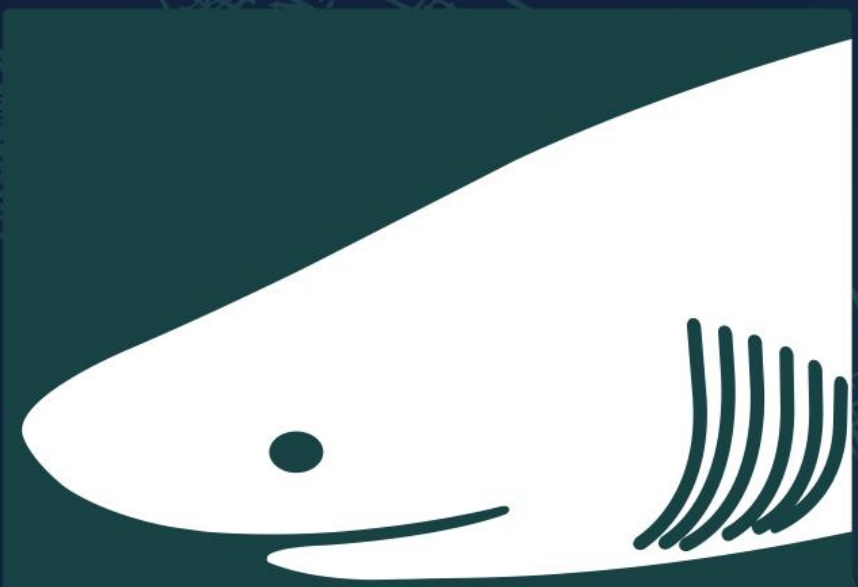

NE PACIFIC SHARK SYMPOSIUM VII

March 19-21 2026

Conference Guide

BIG FISH LAB

SEATTLE AQUARIUM

Table of contents

Optional events

Wednesday, 03/18/2026

TIME	EVENT
5–6pm	Science on Tap social hour Gladys Valley Marine Studies Building Lobby, Hatfield Marine Science Center
6pm	Science on Tap presentation—Human Nature: Why Understanding Our Own Species Is Key to Conserving Sharks (...and Just About Everything Else) by Dr. Isla Hodgson Carmen Ford Phillips Auditorium, Gladys Valley Marine Studies Building

Science on Tap is a free, family-friendly event in a casual environmental featuring a host of scientists talking about the latest ocean research. The event is held in the Gladys Valley Marine Studies Building at Hatfield Marine Science Center. The event begins with a social hour which includes food and beverages available for purchase.

Conference schedule

All talks will take place in the Carmen Ford Phillips Auditorium in the Gladys Valley Marine Studies Building located at the Hatfield Marine Science Center (HMSC). Address: 2030 SE Marine Science Dr, Newport, OR 97365. Workshop locations will be announced before conference.

Thursday, 03/19/2026

TIME	TITLE	PRESENTER & AFFILIATION
3–8pm	Registration open, Gladys Valley Marine Studies Building Lobby, HMSC	
3:30–4:30pm	(Optional) Hatfield seminar talk—Can We Fish Sharks Sustainably? History, Challenges and Lessons from the Mexican Pacific Carmen Ford Phillips Auditorium, Gladys Valley Marine Studies Building, HMSC	Luz Erandi Saldaña-Ruiz, Center for Scientific Research and Higher Education at Ensenada (CICESE)
4:30–5:30pm	**Workshop:** Workshop 1—IUCN Shark Specialist Group meeting	Shawn Larson, Seattle Aquarium
6–8pm	Happy hour & welcome Gladys Valley Marine Studies Building Lobby, HMSC	

Friday, 03/20/2026

TIME	TITLE	PRESENTER & AFFILIATION
Session 1: Movement & Connectivity—Technology + Telemetry		
8am	Coffee	
8:20am	Housekeeping & updates	
8:30am	Global Patterns And Drivers Of Dispersal Potential in Sharks	Rachel Aitchison, Simon Fraser University
8:37am	Distribution, Relative Abundance and Demography of Elasmobranchs Around Oʻahu, Hawaiʻi	Lauren Arnold, University of Hawaiʻi at Mānoa, Hawaiʻi Institute of Marine Biology
8:45am	Increasing the Range and Accuracy of a Remote Shark Tag Relay Station	Novallyn Bremberg, California State University, Monterey Bay
8:52am	Innovasea's Increased Residency advancements at 69kHz	Dana Allen, Innovasea
9am	Comparisons of Center of Activity (COA) and VEMCO Positioning System (VPS) Data for Aggregating Juvenile White Sharks (*Carcharodon carcharias*)	Savannah Jordan, CSULB Shark Lab
9:07am	Fine-Scale Movements and Behavioral State-Switching of Juvenile White Sharks in a Southern California Nursery	Jack Elstner, Scripps Institution of Oceanography
9:15am	Girls Club: Female-Dominated White Shark Nearshore Aggregations in Southern California	Delaney Sauer, California State University, Long Beach
9:22am	Using Biologging Tags and Hidden Markov Modeling to Analyze Juvenile White Shark Movement Patterns and Behavior	Kylie Rios, California State University, Long Beach Shark Lab

9:30am	Traveling White Sharks Prefer Layovers at Motels with Hot Tubs (Anthropogenic Thermal Outfalls as Transient Movement Waypoints)	James Anderson, CSULB
9:37am	Inter-Annual Site Fidelity of Salmon Sharks in the Northeastern Pacific and the Role of Shifting Climates	Sabrina Daley, Stanford University
9:45am	Who Let the Dogs Out? Tracking Pacific Spiny Dogfish Movements Using Acoustic Telemetry	Auguste Tveit, Big Fish Lab
9:52am	Assessing Shark Body Condition: A Multi-Task Deep Learning Framework for Angle-Tolerant Morphometric Extraction from Underwater Video	Daniel Sambold, California State University, Monterey Bay
10am	Automatic Detection and Recognition of Rays in the Gulf of California from Underwater Videos Using Deep Learning	Maria Camia López Posada, Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California (CICESE)
10:07am	Developing a Photo-Identification Catalog for Broadnose Sevengill Sharks (*Notorynchus cepedianus*) in the Pacific Northwest	Lucy Heine, Oregon State University Big Fish Lab
10:15am	Evaluating the Use of Spot-Pattern Photo-Identification for Long-Term Monitoring of Juvenile Broadnose Sevengill Sharks (*Notorynchus cepedianus*) in San Francisco Bay	Ruhi Garg, Ocean Science Expedition Academy (OSEA)
10:22am	Movement Patterns of Broadnose Sevengill Sharks Tagged in Southern Puget Sound	Dayv Lowry, Independent Researcher
	Coffee break	

Session 2: Foraging Ecology

11am	We're Going to Need a Bigger Boat...and a Better Understanding: Sevengill Movement and Foraging Ecology	Jess Schulte, Big Fish Lab, Oregon State University
11:07am	A Novel Method for Studying Digestion in Large Pelagic Sharks	Duncan Campbell, Moss Landing Marine Labs / CSU Monterey Bay
11:15am	Prey Handling Scars Incurred by White Sharks Reveal Size and Sex-Based Differences in Foraging Patterns	Michael Torrisi, California State University, Monterey Bay
11:22am	Using Pinniped Stranding Records to Understand Shark-Pinniped Interactions in Relation to Seasonal Haul-Out Behaviors In California	Michael McNamara, CSULB Shark Lab
11:30am	Evaluating Swab Sampling Techniques and Genetic Detection of Shark Species through Bite Swabs in Stranded Marine Mammals	Brayden Ortiz, California State University Long Beach Shark Lab
11:37am	Ecological Consequences of Juvenile White Shark Range Shifts into Monterey Bay: Effects on Southern Sea Otter Distribution and Abundance	Brianna Pilone, Moss Landing Marine Laboratories
11:45am	Zooplankton Through the Tides: Characterizing Whale Shark Prey at a Seasonal Aggregation Site in Bahía de los Ángeles, Baja California, Mexico	Abigail Moulton, Northeastern University/Vermilion Sea Institute
11:52am	Trophic Variability of Juvenile Hammerhead Sharks (*Sphyrna lewini*) in the Santa Rosalía Area: A stable-Isotope and Stomach-Content Analysis Approach	Blanca Alicia Santoyo Cerón, Instituto Politécnico Nacional
Noon	Using Mercury Isotopes to Unravel the Feeding Ecology and Contamination Sources Of Sixgill (*Hexanchus griseus*) and Sevengill (*Notorynchus cepedianus*) Sharks in the Northeastern Pacific	Fernanda Michelle Raygoza Díaz, Centro Interdisciplinario de Ciencias Marinas
12:07pm	Development of a Non-Lethal Liver Biopsy Method for Use in Toxicological Studies	Kady Lyons, California State University Long Beach & California Marine Sanctuary Foundation

12:15pm	Bioaccumulation and Biomagnification of Trace Elements in the Speckled Guitarfish *Pseudobatos glaucostigmus* in Santa Rosalía, Gulf of California, Mexico	Jorge Felix Pintueles Tamayo, Centro Interdisciplinario de Ciencias Marinas
12:22pm	Toxicologic Research in Sharks and Rays from Baja California Sur, Mexico	Felipe Galvan-Magana, Centro Interdisciplinario de Ciencias Marinas
	Lunch	

Session 3: Behavior, Reproduction & Habitat Use

1:30pm	Understanding Conspecific Aggression among Great White Sharks (*Carcharodon carcharias*)	Gabriella C. Hamilton, California State University Monterey Bay
1:37pm	Oceanographic Patchiness Drives Size-Partitioned Aggregations of a Top Marine Predator	Dylan Moran, CSU Monterey Bay
1:45pm	Habitat Suitability and Prey Overlap of Pacific Sleeper Sharks in the Gulf of Alaska	Elizabeth Byrd, University of Alaska Anchorage
1:52pm	A Peek into the Deep: Camera Trap Detections of Pacific Sleeper Sharks	Catherine Spangler, Wildlife Technology Frontiers
2pm	Broadnose Sevengill (*Notorynchus cepedianus*) Habitat Use of San Francisco Bay, California, USA	Meghan Holst, Ocean Science Expedition Academy (OSEA)
2:07pm	Sentinels of the Estuary: Urbanization Shapes Nursery Habitat Conditions and Juvenile Bonnethead Shark Health	Shivani Persaud Cowper, The Salty Lab Research Collective
2:15pm	A Baseline Assessment of Social Behavior in Shark Species, with Lessons for the Future	Deven Guerrero, Oregon State University
2:22pm	Presence, Relatedness and Movement of Neonate and Young Juvenile Soupfin Sharks (*Galeorhinus galeus*) at an Adult Male-Dominated Aggregation Site	Ethan Personius, Big Fish Lab
2:30pm	Using Ultrasonography to Evaluate Embryo Development of the Pacific spiny Dogfish (*Squalus suckleyi*) in the Northeast Pacific	Isabella S. Garvin, Coastal Oregon Marine Experiment Station, Oregon State University
2:37pm	Evaluating Changes in Life History Characteristics of the Winter Skate (*Leucoraja ocellata*)	Ava Ivy, Oregon State University – Big Fish Lab
2:45pm	Reproductive Biology of the Shark *Rhizoprionodon longurio* (Jordan and Gilbert, 1882) on the Coast of Santa Rosalía, Baja California Sur, Mexico	Viktor Cárdenas González, Centro Interdisciplinario de Ciencias Marinas CICIMAR-IPN
2:52pm	Elemental Signatures of the Southern Stingray (*Hypanus americanus*) in the Gulf of Mexico	Martha Patricia Pérez-Villanueva, Fisheries Ecology Laboratory CICESE
3:00pm	Aspects of the Reproductive Biology of Sandbar, Galapagos and Tiger Sharks in Hawaiian Waters	Sarah Emerson, University of Hawai'i–Hawai'i Institute of Marine Biology
3:07pm	Pregnant Predators on the Move: Space Use of Gravid Blacktip Reef Sharks in the World's Largest Shark Sanctuary	Kirsty Ballard, Oregon State University–Sulikowski Big Fish Lab
3:15pm	Non-Lethal Assessments of Testosterone Profiles of Male Blacktip Reef Sharks, *Carcharhinus melanopterus*, in Mo'orea, French Polynesia	Jiratana Tungkawachara, Oregon State University
	Coffee break	
4–5:30pm	**Concurrent workshops:** Workshop 2a—North Pacific Acoustic Telemetry (N-PAcT) Workshop 2b—Drone-Based Shark Research	Ryan Logan, Ryan Freedman, & Kady Lyons, N-PAcT Alexandra DiGiacomo, Stanford University
6–9pm	Oregon Coast Aquarium mixer	

Saturday, 03/21/2026

TIME	TITLE	PRESENTER & AFFILIATION
Session 4: Morphology & Life History		
8am	Coffee	
8:30am	Evolution of Morphological Variation in the Batoid Inner Ear	Isamar Lopez-Argueta, Cal Poly Humboldt
8:37am	Comparative Morphology of the Skeletal Labyrinth in Extant Squalomorph Sharks	Kaci Dodd, Cal Poly Humboldt
8:45am	Using New Inner Ear Characteristics to Estimate an Evolutionary Tree of the Cartilaginous Fishes (Sharks, Rays and Chimaeras)	Natalie Swearingen, California Polytechnic University; Humboldt
8:52am	Exploration of Chondrichthyan Inner Ear Geometry	Allison Bronson, Cal Poly Humboldt
9am	Molecular Relatedness-Based Analyses Reveal Evidence of Female Philopatry to Breeding Grounds in a Large, Deep-Water Shark, the Bluntnose Sixgill Shark (*Hexanchus griseus*), a Data-Limited Species	Dr. Shawn Larson, Seattle Aquarium
9:07am	Analysis of Winter Skate, *Leucoraja ocellata*, Age and Growth; A Look Into Vertebral Age Analysis	Grace Emanuelson, Big Fish Lab Oregon State University
9:15am	Modeling Growth Parameters of the Pacific Spiny Dogfish	Lisa Hillier, Washington Department of Fish and Wildlife
9:22am	Picture Pore-Fect: Mapping Shark Electroreceptor Pores with Novel Methods Using Photograph-Based 3D Models	Natalie Donato, Oregon State University
9:30am	Ontogenetic Shifts in Morphology and Ecology of Eastern Pacific White Sharks Revealed by Computer Vision Analysis	Alexandra DiGiacomo, Stanford University
9:37am	Wing Shape, Swimming Speed and Connectivity of Rays	Emily Warren, Simon Fraser University
9:45am	Temperature, Oxygen, Offspring Size and Population Growth Rate Across Sharks	Wade VanderWright, Simon Fraser University
9:52am	Life in the Slow Lane—Slow Metabolism or Large Offspring?	Nicholas Kevin Dulvy, Simon Fraser University
10am	Morphometric Analysis of Batoid Pectoral Fin Morphology Using R and tpsDig	Logan Vuorensivu, Simon Fraser University, Earth to Ocean Lab
10:07am	Ray's Anatomy Goes to Europe: from Morphological Traits to Ecological Function	Owen Kui, Simon Fraser University
10:15am	Retinal Structure and Vision in the Pacific Spiny Dogfish	Lily Paivarinta, Oregon Health & Sciences University
	Coffee break	
Session 5: Human-Shark Interactions, Outreach & Conservation		
11am	Microplastic and Anthropogenic Microparticle Contamination in Salmon Sharks (*Lamna ditropis*) in the Northeast Pacific	Maddie English, Oregon State University, Big Fish Lab
11:07am	From Posts to Presence: Using Social Media to Track Basking Shark Distribution in the Northeast Pacific	Olivia Cleek, Oregon State University
11:15am	Behavioral Response of Juvenile White Sharks to Sounds of Surfers, Swimmers and Kayakers in Coastal California Aggregation Sites	Whitney Jones, CSULB Shark Lab
11:22am	Patterns of Overlapping Habitat Use of *Urobatis halleri* and Human Recreational Water Users and Injury Rates at Two Adjacent Beaches in Southern California	Esteban Carpio, Cal State University Long Beach / Shark Lab

11:30am	Operation STEMbait: Shark and Robots	Sophia Puchalski, Cal State Long Beach Shark Lab
11:37am	California Shark Beach Safety Program—a Non-Lethal Shark Mitigation Model	Christopher G. Lowe, Cal. State Univ. Long Beach
11:45am	Shark & Ray MPA Coverage Explorer: an Interactive Tool for Assessing Protection in Global National Waters	Amanda Arnold, Simon Fraser University
11:52am	Elasmo_Analyses: Talk to a Living Database of Shark Analytical Techniques for Literature Reviews and Research Geography Prioritization	Simon Dedman, Florida International University
Noon	Understanding the Effects of Baiting on Bluntnose Sixgill Shark (*Hexanchus griseus*) Movement and Behavior	Daniela Escontrela Dieguez, Seattle Aquarium
12:07pm	Assessing Seasonal Variability in Shark Catch and Assemblages in San Francisco Bay, California	Genece V. Grisby, Ocean Science Expedition Academy
12:15pm	CSULB Shark Lab Outreach: Community Engagement, Education and Growth	Sara Stamos, CSULB Shark Lab
12:22pm	Effectiveness of a Magnetic Deterrent in Reducing Catch Rates of Juvenile Scalloped Hammerheads in a Nursery Environment	Sarah Emerson, University of Hawai'i–Hawai'i Institute of Marine Biology
12:30pm	Minorities in Shark Science (MISS): Expanding the West Coast Network	Daniela Escontrela, Seattle Aquarium
12:37pm	Unseen and Undervalued: Quantifying the Ecological and Economic Dimensions of Mexico's Shark Meat Market	Luz Erandi Saldaña-Ruiz, Centro de Investigación Científica y de Educación Superior de Ensenada
12:45pm	Citizen Eyes on the Deep: Seven Years of Sixgill Shark Sightings in the Salish Sea	Michael McGoldrick, SixgillSharks.org
12:52pm	*Anthopleura xanthogrammica* Coloration and Tank Lighting: Insights from Spot PAR Measurements in the Monterey Bay Aquarium	Carolina Andrea Agrón Irizarry, Minorities in Shark Sciences
1pm	Closing remarks	
	Lunch	
2–3pm	**Concurrent Workshops:** Workshop 3a—Causal Modeling with DAGs and SEM Workshop 3b—Sketch your Study Species: Hands-on art workshop	Simon Dedman, Florida International University Natalie Donato, Oregon State University
2–3pm	Tour and open house with the OCCC Aquarium Science program	OCCC Aquarium Science students and staff

Workshop descriptions

Workshop 1—IUCN Shark Specialist Group meeting

Led by: Shawn Larson, Seattle Aquarium

Thursday afternoon (March 19, 4:30–5:30pm)

A high-level overview of the IUCN SSC Shark Specialist Group (SSG). Here we will discuss what the SSG does and how it is organized. Note we are beginning new leadership in the IUCN's Species Survival Commission (SSC), thus all specialist groups are being reviewed and reorganized to meet the new chair's criteria.

Workshop 2a—North Pacific Acoustic Telemetry (N-PAcT) workshop

Led by: Ryan Logan, Ryan Freedman & Kady Lyons, N-PAcT

Friday afternoon (March 20, 4–5:30pm)

Acoustic telemetry data provides essential information on marine species distribution, habitat use and connectivity, aiding the implementation and assessment of marine zoning. While acoustic data sharing networks are well established along other U.S. coastlines, the West Coast has lagged behind. The Northeast Pacific Acoustic Telemetry Node (N-PAcT; npact.aoos.org) was established in 2025 and aims to shift perspectives from localized efforts to national and international collaboration to better understand animal movements and support effective management of mobile species. N-PAcT serves as a platform to integrate data from a multitude of researchers across jurisdictions spanning from Alaska, USA, to Baja California, Mexico. N-PAcT is interoperable with the Ocean Tracking Network (OTN), which has well-established infrastructure to enable data sharing across research groups, including detection matching with other nodes and affiliated networks, and rigorous quality assurance and quality control (QA/QC) of ingested data. At this workshop, we will provide an introduction to new and returning users on how the N-PAcT node can enhance acoustic telemetry studies and cross-collaboration, particularly for study species that are highly migratory. The workshop will include tutorial demonstrations and hands-on opportunities to directly work with members of the N-PAcT node on best practices for properly formatted data to aid ingestion into the network.

Workshop 2b—Drone-Based Shark Research: From Survey to Analysis

Led by: Alexandra DiGiacomo, Stanford University

Friday afternoon (March 20, 4–5:30 pm)

This workshop will focus on the practical and reproducible use of drones for shark research. Topics include survey design, question-guided data collection, and the strengths and limitations of drone-derived data. We will explore common analytical approaches (object detection, tracking, morphometrics and habitat mapping) paired with AI and computer vision techniques for image analysis. The workshop will emphasize best practices and standardization across the full drone workflow and highlight tools that support consistent, high-quality, drone-based shark science.

Workshop 3a—Causal Modeling with DAGs and SEM

Led by: Simon Dedman, Florida International University

Saturday afternoon (March 21, 2–3pm)

Directed acyclic graphs (DAG) help researchers to map connections across their study systems, encouraging a full understanding of how your sharks interact with their environment. Structural equation modelling (SEM) allows us to measure the strength of key connections in your mapped network, ignoring irrelevant variables. These techniques represent a new frontier for analysis, taking us past correlation to causality. This unlocks the ability to assess the ecological roles and importance of sharks, among many other examples. I'll present an overview of the key concepts and workflows, plus advice from practitioners around the world.

Workshop 3b—Sketch your Study Species: hands-on art workshop

Led by: Natalie Donato, Oregon State University

Saturday afternoon (March 21, 2–3pm)

Observation is a key pillar of the scientific process, and illustrations can provide an interesting perspective for the viewers—and the illustrators. Aimed to provide a deep dive into the intriguing details of elasmobranchs (and a creative break to unwind!), Natalie Donato, the illustrator behind the Sharks of Oregon license plate and poster, will walk attendees through sketching your study species. The workshop will teach attendees basic illustration techniques to capture the interesting anatomy, patterns and more of their study species, providing a different angle to viewing these incredible animals. All skill levels are welcome!

Tour and open house with the OCCC Aquarium Science program

Led by: OCCC Aquarium Science students and staff

Saturday afternoon (March 21, 2–3pm)

Oregon Coast Community College's Aquarium Science program prepares students for rewarding careers in public aquariums, zoos and aquaculture through hands-on, career readiness-focused training in fish and invertebrate husbandry, water quality and life support systems. With pathways ranging from a one-year certificate for bachelor's degree holders, a two-year AAS degree, to a four-year degree in collaboration with a partnering university, the program meets students where they are—all within a dedicated 10,000-square-foot aquarium facility.

Join us for a private, student-led tour of our teaching aquarium and husbandry areas—including the chance to see our elasmobranchs up close — and discover where the next generation of aquatic science professionals learns their craft!

NEPSS social events

Happy hour & welcome

Gladys Valley Marine Studies Building, Hatfield Marine Science Center
2030 SE Marine Science Dr., Newport, OR 97365
Thursday evening (March 19, 6–8pm)
Light snacks and complimentary drinks provided.

Oregon Coast Aquarium mixer

Oregon Coast Aquarium
2820 SE Ferry Slip Rd., Newport, OR 97365; 0.4 mi/0.64 km from HMSC
Friday evening (March 20, 6–9pm)
Dinner and drinks provided.

Sponsors

NEPSS VII would not be possible without the support our generous sponsors. Make sure to visit our sponsors' booths, learn about their companies and thank them for funding student scholarships, providing mixer food and drinks, and making this conference happen!

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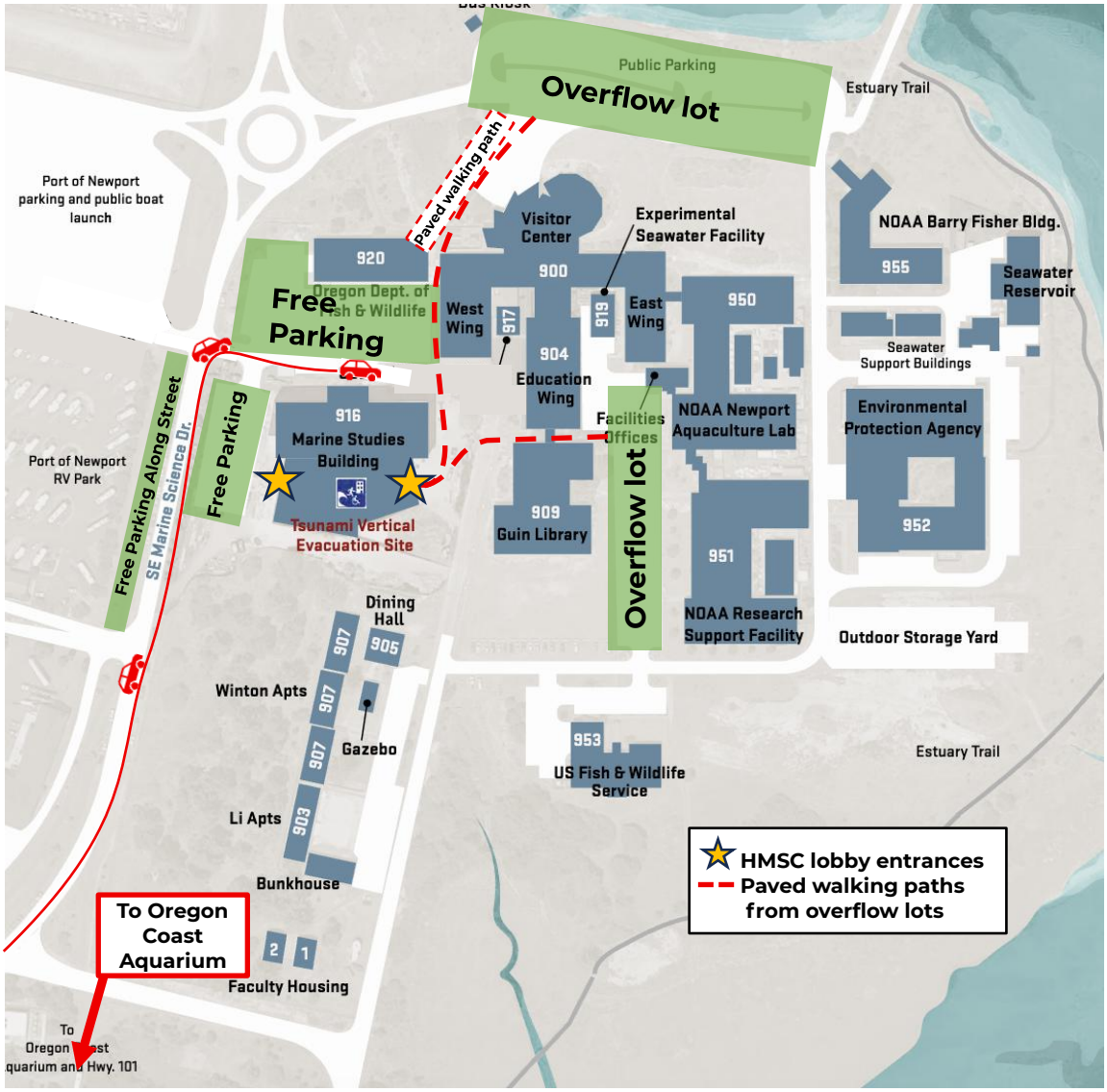
Parking map



Driving directions

Traveling south on U.S. 101

Cross over the Newport Bridge.
Take the first right after the bridge onto SW Abalone St.
Continue onto SE Marine Science Dr.
The Hatfield Marine Science Center will be on your right.

Traveling north on U.S. 101

Shortly before you reach the Newport Bridge, turn right at SE 32 St.
Turn left at SE Ferry Slip Rd.
Continue to the T-intersection and turn right onto SE Marine Science Dr.
The Hatfield Marine Science Center will be on your right.

Things to do in and around Newport

Newport

Restaurants & pubs

- Historic bayfront
  - Local Ocean—Sustainable, local seafood with views of the bay. Popular happy hour.
  - Bay Haven Inn—Popular bar with the local fishermen, amazing karaoke (cash only, ATM inside).
  - Barge Inn Tavern—Pub fare and drinks, big TVs for sports watchers.
  - Clearwater Restaurant—PNW foods served in an upscale venue with views of the bay.
- Near HMSC
  - South Beach Fish Market—Old-school seafood shack.
  - Off the Hook—Casual fish and chips and more, <1 mile from HMSC.
  - The Wilds Taphouse & BBQ—Local BBQ, close to Harborton St. Housing.
- Nye Beach
  - Panini—Coffee, local pastries and freshly warmed pizza.
  - Nana's Irish Pub—Pub offering Irish and local beers plus tavern foods.
- Bier One – A popular watering hole for Hatfielders! Brewpub offering craft beers, bar food & games.

Things To do

- *Oregon Coast Aquarium*—Located on Yaquina Bay, the Oregon Coast Aquarium is a fun and educational destination that showcases the incredible wildlife of the Pacific Northwest. Visitors can explore tide pool touch tanks, watch playful otters and seals, stroll through a seabird aviary and walk beneath sharks in the famous Passages of the Deep exhibit.

- *Hatfield Marine Science Center Visitor Center*—This interactive museum and aquarium offers hands-on exhibits, tide pools and even a resident octopus. With engaging programs for all ages, it's a fun and engaging stop where visitors can explore the science and wonders of Oregon's coastal ecosystems.

- *Newport historic bayfront*—Dozens of shops and sights to see, as well as top-notch dining choices, Ripley's Believe it or Not, chartered tours and more!

- *Sea lion dock*—Located on the historic bayfront. View (and smell) the sea lions! Free admission and an observation deck.

- *Nye Beach neighborhood*—Great restaurants and stores, right next to the beach.

- *Yaquina Head Lighthouse and Natural Area*—Offers stunning ocean views, a historic working lighthouse and abundant wildlife viewing from seabirds to seals to intertidal critters. Visitors can explore scenic trails, a fascinating visitor center and museum, and tide pools brimming with marine life, making it both a beautiful and educational stop along the coast.

- *South Beach State Park*—Situated next to the Yaquina Bay Bridge, South Beach State Park begins in south Newport and stretches several miles down the Oregon coast. This historic park offers access to miles of broad, sandy ocean beach and trails for walking and bicycling. Located just south of the south jetty near HMSC.

- *Agate Beach State Park Recreational Site*—A picturesque coastal destination near Newport. The beach is known for its abundance of colorful agate stones, which visitors can search for and collect along the shoreline. With its stunning ocean views, sandy shores and opportunities for beachcombing, Agate Beach State Recreation Site offers a tranquil and scenic retreat for nature lovers and beach enthusiasts.

- *Tide pooling*—Want more sea life? Check the tides and the weather before heading out to popular tide pooling locations such as Yaquina Head Outstanding Natural Area, Seal Rock State Recreation Site and the Otter Rock Marine Reserve.

- Accessible and inclusive travel on the Oregon Coast: https://traveloregon.com/things-to-do/trip-ideas/accessible-and-inclusive-travel-on-the-oregon-coast/

Around Newport—Nearby cities provide scenic viewpoints, whale watching, and more!

- *Otter Rock/Devils Punchbowl State Natural Area*—Surfers and surf watchers energize this area! During winter storms, water from the restless ocean slams with a thundering roar into a hollow rock formation shaped like a huge punch bowl. The surf churns, foams and swirls as it mixes a violent brew. The punch bowl was probably created by the collapse of the roof over two sea caves, then shaped by wave action. The park is a popular whale-watching site and displays an intriguing geology. This is a scenic picnic spot atop the undulating rocky shoreline. Don't forget to explore the tide pools on the north side of the punch bowl!

- *Beverly Beach State Park*—Beverly Beach is popular for a reason! Like magic, a well-known walkway goes under the highway and emerges to the long expanse of sandy beach extending from Yaquina Head (you can see the lighthouse from here) to the headlands of Otter Rock. When the weather cooperates, kites color the air and whip in the wind. Bring a bucket and build a sand castle! Surfers often head to the north beach, while folks looking for fossils head south.

- *Seal Rock State Recreation Site*—Located south of Newport, Seal Rock State Wayside features large off-shore rock formations that provide habitat for seals, sea lions, sea birds and other marine life. The beach includes interesting tide pools as well as excellent ocean views and a sandy beach. The short trail to the beach is steep in areas, but features an ADA-accessible viewpoint at the midway point with views of the beach and tide pools. The picnic area near the parking lot is in a pleasant stand of shore pine, spruce and salal.

- *Depoe Bay* (13 miles north of Newport)—Known as the “whale watching capital of the Oregon Coast,” Depoe Bay seems to draw whales to its horizon like clockwork every

March through December. The town anticipates those migrations, with a Whale Watch Center, shore observation decks and charter boats for an up-close view. Depoe Bay's harbor is noteworthy for being the smallest natural navigable harbor in the world. During storms and turbulent seas, the area's distinctive geological features result in a phenomena called a "spouting horn" where, much like a whale, the sea itself spouts a massive spray of water into the air above Main Street.

- *Lincoln City* (25 miles north of Newport)—With over seven miles to explore, you'll find soft, sandy beaches, hidden treasures and memories not soon forgotten. Lincoln City has a tradition of hiding handblown glass floats on the beach called Finders Keepers—throughout the year, more than 3,000 artisan-made floats are placed along the shoreline, ready to be found and treasured. Inspired by the historic Japanese fishing floats that once washed ashore, this one-of-a-kind program invites visitors to slow down, wander and experience the coastline with a sense of wonder. Explore the beach and look everywhere!

HMSC tsunami preparedness

The Hatfield Marine Science Center is located in a tsunami zone. More information, including evacuation maps, can be found on the HMSC earthquake and tsunami preparedness webpage at https://hmsc.oregonstate.edu/staff/employee-resources/tsunami-preparedness