

Containers overboard outside Olympic Coast National Marine Sanctuary

The *Zim Kingston* lost over 100 containers during heavy weather at 12:49am Friday, October 22, 38 miles west of the Strait of Juan de Fuca. This incident did not occur in the sanctuary and the containers drifted north, remaining in Canadian waters, some eventually making landfall on northern beaches on the west coast of Vancouver Island, British Columbia. The U.S. Coast Guard conducted an aerial overflight Friday morning and located 35 of the containers and deployed a self-locating datum marker buoy to monitor the movement. A notice to mariners was made following the incident, no collisions or incidents have been reported. Reports of refrigerators, toys, yoga mats, and other household goods have been observed on Vancouver Island beaches. *Zim Kingston* moored 5 miles from Victoria, British Columbia and on Saturday two containers onboard were on fire. Canadian Coast Guard (CCG) led the incident command post and Resolve Salvage conducted salvage/firefighting operations. CCG evacuated 16 of the 21 crew onboard, five of the crew wished to remain on the vessel. The two containers that were on fire contained potassium amyl xanthate, a pale-yellow powder widely used in the mining industry. It is also reported that two of the containers that went overboard contained this chemical, which can spontaneously combust.

SANCTUARY PERMITTING

Issued Permits and Authorizations

OCNMS-2021-010 Global Diving and Salvage

Project Title: Survey and removal of sunken 48' Pacemaker motor vessel

Permitted Activity: Global Diving and Salvage has located the M/V *Unwind* and are proposing to salvage the vessel by safely lifting the hull clear of the water to a deck barge while minimizing the potential for release of possible pollution.

Permit Duration: Work to be conducted between July 1, 2021 and October 31, 2021

Comment: The vessel was located 5 miles offshore of La Push in 130 feet of water. While this salvage effort was permitted, it was not able to be implemented as the cost for this proposal exceeded the insurance policy. A new salvage plan with another company may be proposed to attempt removal in 2022.

OCNMS-2021-011 Brad Hanson, Northwest Fisheries Science Center

Project Title: Pacific Orcinus Distribution Survey 2021

Permitted Activity: Small vessel survey in late October to survey fall/winter distribution of killer whales, includes acoustic surveys through deployment of sonobuoys, visual surveys, and collection of eDNA.

Permit Duration: October 16, 2021 through October 29, 2021

OCNMS-2021-012 Dana Manalang, Applied Physics Lab, University of Washington

Project Title: A Multi-Platform, High-Resolution Coastal Ocean Observing Sensor Array for Researching Washington Coastal Waters and Ecosystem Response to Climate Change

Permitted Activity: Deployment, operation, and retrieval of oceanographic moorings (Cha'ba and NEMO) ~13 miles west-northwest of La Push. Sediment samples may be collected to aid in engineering design of anchor recovery system. Potential discharge of a small quantity of chemicals that serve as an antifoulant to one of the sensors deployed.

Permit Duration: November 5, 2021 through November 4, 2026

Comment: A new multi-year permit was issued for this due to change in permit holder.

REGIONAL/NATIONAL MARINE SANCTUARY SYSTEM NEWS

MPA Center and Mote Marine Lab Publish Article on Connectivity and MPAs

The MPA Center, with partners from Mote Marine Lab, co-authored the article [Advancing marine conservation through ecological connectivity: Building better connections for better protection](#), which was published in Parks Stewardship Forum on September 15. The article provides an overview of marine connectivity and why it is such an important component of MPA network design. This manager-targeted article provides valuable information for MPA managers by further providing an overview of methodologies for measuring connectivity in MPAs and by highlighting the IUCN's new "[Rules of Thumb](#)" on marine connectivity. Finally, the article features numerous case studies that demonstrate how connectivity considerations are already being used to enhance MPA design and management, including a case study from Flower Garden Banks National Marine Sanctuary's use of connectivity science as a foundation for the sanctuary expansion

2021 Get into Your Sanctuary events engaged people at home and in the water!

With the most participants of site-led events since 2016, over 1,200 people participated in either a virtual or in person offerings during the [Get into Your Sanctuary](#) (GIYS) week, August 2-8. National marine sanctuaries were brought to life through cultural immersion, recreation, and exposure to mesmerizing ecosystems below the water's surface. Of the 1,001 virtual attendees, 398 completed the follow-up GIYS evaluation. All 12 of the webinars will be captioned and available to view.

Joint ROV Cruise Surveys California Seafloor Habitats

A joint cruise between Cordell Bank (CBNMS) and Greater Farallones national marine sanctuaries (GFNMS) to survey seafloor habitat in CBNMS, GFNMS, and part of Monterey Bay National Marine Sanctuary was recently completed. The mission investigated Pioneer Canyon, Farallon Escarpment, Cordell Bank and nearby shelf and slope habitat, including areas that are subject to trawling or fishing regulations. Using the Marine Applied Research and Exploration remotely-operated vehicle, the team completed nine dives and collected visual images along 46 quantitative transects to aid in assessing the status and trends of habitats and species in the sanctuaries. Exploring, characterizing, and monitoring sanctuary seafloor habitats is critical for effective management of these sensitive areas.

NOAA scientists featured on Science Channel and discovery+ new series "Abandoned: Expedition Shipwreck"

Science Channel and discovery+ new series ["Abandoned: Expedition Shipwreck" episode](#) "Collision Course" recently featured the shipwreck SS *City of Chester* sunk in a collision with the RMS *Oceanic* in 1888 off the Golden Gate. Office of National Marine Sanctuaries West Coast Regional Maritime Coordinator, along with Historian and Archaeologist with the National Park Service were featured in the episode. The first archaeological multibeam sonar survey of the SS *City of Chester* was completed in collaboration with the Office of Coast Survey Navigation Response Team 6 in 2013. In 2014, the first archaeological survey using three-dimensional technology to record the SS *City of Chester* was completed in partnership with Bay Marine LLC and Hibbard Inshore LCC. For this mission, Hibbard's Saab Hybrid remotely operated vehicle was equipped with a Coda Octopus Echoscope sonar producing real-time three-dimensional imaging of both shipwreck sites. The episode also includes NOAA scientists working off the NOAA ship *Ferdinand R. Hassler* surveying the shipwreck SS *Oregon* lost in collision with an unidentified schooner off New York in 1886, and the HMS *Curacoa* lost in a collision with the RMS *Queen Mary* off the coast of Ireland in 1942.

Stetson Bank Long-Term Monitoring and Water Quality Cruise

Flower Garden Banks National Marine Sanctuary staff and volunteer divers completed a cruise at Stetson Bank to exchange important water quality instruments and capture repetitive photostation images for the long-term monitoring study. The divers photographed 25 repetitive photostations and made a quick assessment of the reef's overall health. Divers noted bleaching in fire-coral (*Millepora alcicornis*) on the shallower areas of the reef crest, but no evidence of stony coral tissue loss disease. The divers also noted growth in the fire-coral colonies and a noticeable decrease in sponge communities at some repetitive photostation sites. *Regal demoiselle*, an exotic species from the Indo-Pacific Ocean, were also observed in large schools at the bank. This cruise supports data collection for the annual long-term monitoring study of Stetson Bank that has been conducted since 1993. Water quality measurements provide valuable information about the stability of the ecosystem, while repetitive photostations are critical for documenting and characterizing major shifts in the benthic community.

Wisconsin Shipwreck Coast National Marine Sanctuary Designation Media Event

On October 9th, Dr. Rick Spinrad, Wisconsin Governor Tony Evers, Senator Tammy Baldwin, Manitowoc Mayor Justin Nickels, other local elected officials, and special guests joined a media event to recognize the designation of Wisconsin Shipwreck Coast National Marine Sanctuary. Held at the Wisconsin Maritime Museum in Manitowoc, the event also recognized key supporters, maintained momentum and visibility for the sanctuary, and connected sanctuary partners with NOAA leadership. A wide range of topics were discussed including the sanctuary's role in helping attract NOAA science and resources to help study and educate on climate change.

Great Lakes Offshore Multibeam Sonar Mapping Project Completed

Between April and August of 2021, staff from Thunder Bay National Marine Sanctuary led an extended offshore multibeam sonar mapping project. Working with NOAA's Office of Ocean Exploration and Research aboard two NOAA research vessels, operated by NOAA's Great Lakes Environmental Research Laboratory, the sanctuary provided geophysical and hydrographic mapping services to support archaeological exploration of the Alpena-Amberley Ridge located in central Lake Huron; this area was included in the 2014 sanctuary boundary expansion. In total, the project resulted in detailed sonar mapping of three study areas, totaling 188 square kilometers of lakebed.

REGIONAL/NATIONAL MARINE SANCTUARY FOUNDATION NEWS

National Marine Sanctuary Foundation Awards Humpback Whale Research Grants

<https://marinesanctuary.org/news/national-marine-sanctuary-foundation-awards-humpback-whale-research-grants/>

The National Marine Sanctuary Foundation awarded four mini-grants to support humpback whale research conducted within Hawaiian Islands Humpback Whale National Marine Sanctuary for the Fall 2021-Spring 2022 humpback whale season. The four grantees were each awarded \$5,000 to fund their projects. Grant recipients include the Hawai'i Marine Mammal Consortium, the University of Hawaii at Manoa- Hawaii Institute of Marine Biology, the Pack Marine Mammal Laboratory of the University of Hawaii at Hilo, and the Whale Trust (University of California-Santa Cruz). These grants will support ongoing research and conservation efforts to protect humpback whales and their habitat in the sanctuary, including monitoring population abundance, distribution and trends, behavior, and overall health.

National Marine Sanctuary Foundation Applauds Establishment of Bipartisan Congressional National Marine Sanctuary Caucus

<https://marinesanctuary.org/news/national-marine-sanctuary-foundation-applauds-establishment-of-congressional-sanctuaries-caucus/>

The National Marine Sanctuary Foundation celebrated the launch of the [National Marine Sanctuary Caucus](#), with co-chairs Rep. Jared Huffman (D-CA) and Rep. Garret Graves (R-LA). The caucus will serve as a strong voice to raise awareness of national marine sanctuaries and their critical role in conserving our ocean and preserving our nation’s cultural heritage. Its launch occurs as the nation prepares to celebrate the 50th anniversary of the National Marine Sanctuaries Act in October 2022. The 50th anniversary’s theme, “Save Spectacular,” is a year-long celebration of our great waters, inviting all people to discover the wonders of national marine sanctuaries and work together as stewards to conserve our ocean and Great Lakes.

National Marine Sanctuary Foundation Celebrates Advancement of Chumash Heritage National Marine Sanctuary Designation

<https://marinesanctuary.org/news/national-marine-sanctuary-foundation-celebrates-advancement-of-chumash-heritage-national-marine-sanctuary-designation/>

The National Marine Sanctuary Foundation joined tribal, national and community leaders in celebrating the initiation of Chumash Heritage National Marine Sanctuary’s designation process, announced today by the National Oceanic and Atmospheric Administration, and applauding members of the Northern Chumash Tribal Council for leading its nomination. The proposed Chumash Heritage National Marine Sanctuary would protect culturally sacred sites, feeding grounds for numerous species of whales and dolphins, sea otter populations, kelp forests, and is home to vital commercial and recreational fisheries. [The designation is now open for public comment.](#)

OCNMS Online

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Your feedback is greatly appreciated.

Visit our website at:

<http://olympiccoast.noaa.gov/>

Comments and suggestions can be sent to:
jacqueline.laverdure@noaa.gov.

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Ocean-Related Websites

National Oceanic and Atmospheric Administration http://www.noaa.gov/	National Data Buoy Center http://www.ndbc.noaa.gov/rmd.shtml	Washington’s Ocean Resources http://www.ecy.wa.gov/programs/sea/ocean/index.html
National Ocean Service http://oceanservice.noaa.gov/	NOAA Pacific Marine Environmental Laboratory http://www.pmel.noaa.gov/	Northwest Association of Networked Ocean Observing Systems http://www.nanoos.org/
Office of National Marine Sanctuaries http://sanctuaries.noaa.gov/	CoastWatch – West Coast Regional Node http://coastwatch.pfel.noaa.gov/	Office of National Marine Sanctuaries – Earth is Blue https://sanctuaries.noaa.gov/earthisblue.html
NOAA Ocean Explorer http://oceanexplorer.noaa.gov/	NOAA Marine Debris Program http://marinedebris.noaa.gov/	National Marine Sanctuary Foundation https://marinesanctuary.org/

OLYMPIC COAST NATIONAL MARINE SANCTUARY

LEARN MORE ABOUT YOUR SANCTUARY

The Sanctuary Office Report is produced bi-monthly by Olympic Coast National Marine Sanctuary in conjunction with sanctuary advisory council meetings. To learn more about the sanctuary, please visit our website at:

<http://olympiccoast.noaa.gov/>.

To learn more about the sanctuary advisory council, please visit:

<http://olympiccoast.noaa.gov/involved/sac/welcome.html>

OFFICE OF NATIONAL MARINE SANCTUARIES (ONMS)

Olympic Coast National Marine Sanctuary is one of the marine protected areas in the National Marine Sanctuary System encompassing more than 600,000 square miles of marine and Great Lakes waters from Washington state to the Florida Keys and from Lake Huron to American Samoa. The system includes 14 national marine sanctuaries and Papahānaumokuākea and Rose Atoll marine national monuments. Visit the ONMS website at:

<http://sanctuaries.noaa.gov/>.

Get Involved!

To learn how to get involved in the sanctuary visit:

<http://olympiccoast.noaa.gov/involved/welcome.html>

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