

TITANIC EXPEDITION

Crewed Submersible Exploration of the
World's Most Famous Shipwreck



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OceanGate®
EXPEDITIONS

THE EXPEDITION

A Unique View of the Legendary Titanic

After two successful expeditions to the wreck site, OceanGate Expeditions looks forward to returning in 2023 to continue exploring the Titanic, monitoring its rate of decay, and documenting the marine life inhabiting the wreck.

Given the massive scale of the wreck and the debris field, multiple missions performed over several years will be required to fully document and model the wreck site. Expeditions are conducted respectfully and in accordance with NOAA Guidelines for Research Exploration and Salvage of RMS Titanic [Docket No. 000526158-1016-02], and comply with UNESCO guidelines for the preservation of underwater world heritage sites.

Qualified explorers have the opportunity to join the expedition as Mission Specialist crew members whose Training and Mission Support Fees underwrite the mission, the participation of the science team, and their own training. Each team of 6 Mission Specialists will join the expedition for a 10-day mission (8 Days at Sea). The first mission of the 2023 Titanic Expedition will begin in May and the final mission will conclude in late June.



Expedition Objectives

The Titanic Survey Expedition will conduct an annual scientific and technological survey of the wreck with a mission to:

- Scan the shipwreck and portions of the debris field using the latest multi-beam sonar and photographic technology.
- Supplement the work done on past scientific expeditions to capture data and images that are missing from the scientific record
- Document the condition of the wreck with 4K quality photographs and video.
- Document the marine life inhabiting the wreck site and compare against data collected on prior scientific expeditions to better assess changes in the habitat as the shipwreck decays.



A NEW ERA OF DEEP SEA EXPLORATION

Titan Submersible



Titan Submersible Specifications:

Capacity:

5 persons (1 pilot + 4 crew)

Depth:

4,000 meters (13,124 feet)

Dimensions:

6.7 meters x 2.8 m x 2.5 m
(22 feet x 9.2 ft x 8.3 ft high)

Weight:

11,340 kg (25,000 lbs)

Speed:

3 knots

Life Support:

96 hours for 5 crew

Design Specifications:

- Carbon fiber hull: 12.7 cm (5 in.) thick
- Largest view port of any deep diving submersible: 53cm (21 in.) diameter
- Ascent/descent rate of 35 meters/min. (115 feet/min.)
- Integrated launch/recovery system
- Comfortable dome entry/exit

Titan, the world's only 5-person crewed submersible capable of reaching 4,000 meters (13,124 feet), will be used for the duration of the five-week Titanic Survey Expedition. Ushering in a new era of deep-sea exploration, Titan is making it possible for individuals, researchers, and scientists to observe our planet's most valuable resources from an entirely new perspective. Constructed of titanium and carbon fiber, the innovative vessel was designed in collaboration with NASA to provide a safe and comfortable pressure hull which will withstand the enormous pressures encountered at depths of up to 4,000 meters (13,123 feet).

Equipped with state-of-the-art technology, Titan provides an unrivaled view of the deep ocean. In addition to its large viewport, Titan's exterior cameras provide a constant live view of the outside environment. Crew members can access each external camera view from within the submersible on a large onboard display or crew tablet. With the click of a button, Mission Specialists can select a camera, monitor the sonar, or view preloaded images of deep-sea species, and the Titanic as they experience an entirely foreign world that only a handful of people have had the privilege to experience.

We use an acoustic USBL system to track and communicate with Titan throughout the dive. Using this system, Titan and surface crews can exchange text messages as needed. At any time during the dive, crew members can rotate seating positions and take turns stretching out. The breathable air onboard the sub is recycled in a manner similar to that used aboard spacecraft. Regardless of the dive depth, the air pressure inside the submersible remains constant and equal to the one atmosphere of pressure we experience at sea level, eliminating the need for decompression during the ascent.

The use of Titan for the Titanic Survey Expedition is a significant milestone in our innovative effort to open the oceans to a wider universe of explorers and scientists.

YOUR DIVE

Titanic Explored

Following a pre-dive brief, your team of up to four crew members (usually 3 Mission Specialists and a scientist or subject matter expert) and one sub pilot will board Titan. After conducting a check of lifesupport, buoyancy, and communication systems, the dive begins.

During the 2.5 hour decent through the water column, you will traverse the least explored habitat on the planet. During this phase of the dive, crew members will be on the lookout for bioluminescent creatures, help the pilot monitor the sub's position. After landing on the seafloor, crew will watch the sonar system for the first reflections of the wreck. Finally, the wreck will come into view through the acrylic viewport and the exterior cameras.

The submersible crew will spend three to four hours exploring one or more features of the wreck which include the bow, the stern, and the debris field. The area of focus will change depending on the interest of the crew and the scientific mission for that dive. Our powerful exterior lights will illuminate the area of study and help you search for landmark features like the giant boilers and the ship's anchors.



Typical Dive Support Vessel Horizon Maritime's Polar Prince

At the start of each mission, the expedition team will depart from St. John's, Newfoundland with Titan and its launch and recovery platform (LARS) on deck. When we arrive at the dive site we will launch the sub and its platform. Our support vessel will comfortably house all crew members. Mission Specialists will enjoy private cabins. Meals will be shared in the ship's galley.



JOIN THE EXPEDITION



There are several ways to Participate in our expeditions at sea:

Mission Specialists

Mission Specialists are explorers, adventurers, and citizen scientists whose Training and Mission Support Fees make the expedition possible. Mission Specialists receive training in a variety of roles such as submersible navigation and piloting, tracking and communications, and submersible maintenance and operations. They make one submersible dive and assist on the surface when other teams dive.

Content Experts

Credentialed or accomplished experts in shipwreck exploration, Titanic history, film making, sea floor mapping, marine biology, microbiology, marine archaeology or technical fields who are selected to provide expertise or equipment necessary to achieve the mission objectives.

Technical Advisors

Technical Advisors are experts in deep sea technology. Their knowledge of the instruments used aboard Titan provide operational assistance and guidance for the interpretation of the data captured throughout the mission.

All expedition participants must:

- Be able to live aboard ship at sea for 8 days
- Be able to board small boats (Zodiacs) in rough seas and climb a 6' ladder
- Have a valid passport
- Be able to enter Canada
- Be at least 18 years old when the mission begins
- Be comfortable in dynamic environments

Become a Mission Specialist

Only six mission specialist crew positions are available on each mission. Mission Specialists receive training and hands-on coaching from the operations crew for all support roles, including:

During a Dive

Sonar Operation
Photography
Communications
Observation
Navigation

Abord Support Ship

Submersible Service
Dive Image Review
Sonar Analysis
Dive Planning
Science Support
Communications & Tracking

Mission Specialist Training and Support Fee

\$250,000 per person

Learn How to Join

Please visit:

<https://oceangateexpeditions.com/how-to-join>

Or call 425-595-6343 for up-to-date mission schedule and availability.

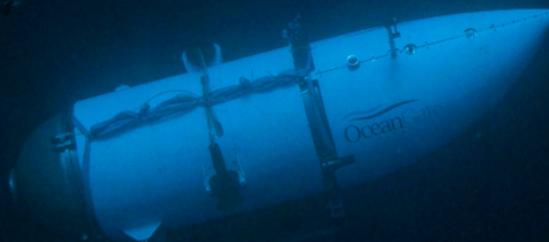


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I am looking forward to working with the OceanGate Expeditions team to demonstrate the cutting-edge submersible technology that has the power to change the way humans explore our deep oceans, understand our planet, and investigate other planets.

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*~ Dr. Scott Parazynski
NASA Astronaut, Physician and
OceanGate Expeditions Sub Pilot and Mission Specialist*




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