

EXHIBITION OVERVIEW





INTRODUCTION

OceanXperience puts visitors in the driver's seat of a personalized adventure. Climbing aboard an interactive replica of OceanXplorer, the most advanced research and filmmaking vessel in the world, visitors choose a mission tailored to their interests. As visitors explore the vessel and enjoy hands-on STEM-based research tasks, their journey is tracked and enhanced with RFID technology. The adventure culminates in an interactive facilitated HoloLab experience and powerful cinematic scenes in the 360 degree theater. Filled with soundscapes, touch, and visually dynamic media, the exhibition is sure to engage all the senses. The most captivating rooms from the vessel have been recreated in the exhibition to give visitors a sense of actually being an Xplorer onboard *OceanXplorer*, including:

- Mission Control
- Bridge
- HoloLab
- Wet and Dry Labs
- Sub Hangar



THE BIG IDEA

Ocean exploration is an exciting and important field filled with cutting-edge science and technology.

OceanXperience uses innovative, mission-based storytelling and cinematography to bring important discoveries about ocean environments and their inhabitants back to shore, and to raise awareness for the oceans and create a community engaged with protecting them.

OceanX's one-of-a-kind research vessel, *OceanXplorer* and the Xplorers humanize the mission-based *OceanXperience*, and help to inspire lifelong learners, future conservationists and changemakers.



KEY THEMES

A MAJESTIC, LIVING ENVIRONMENT

Earth's oceans are filled with some of the most amazing creatures, plants, and natural features; yet less than 20 percent have been explored and charted. The Xplorers aboard OceanXplorer are bringing new discoveries to shore and highlighting conservation efforts for the preservation and restoration of these environments.

AN AUTHENTIC AND HUMAN MISSION

The Xplorers are a young and diverse bunch of specialists who are driven by unyielding curiosity, voracious audacity, and a limitless passion for the ocean. The Xplorers are the visitors' viewport into the mission and humanize the experience by sharing their personal successes and struggles.

HIGH-TECH ADVENTURE AND EXPLORATION OF THE UNKNOWN

OceanXplorer is a cutting-edge, all-in-one vessel for adventure, exploration, research, and cinematography of the oceans.

REGISTRATION
ENTRY HALLWAY
MISSION CONTROL
BRIDGE
TAGGING INTERACTIVE
WET LAB
DRY LAB
INTERPRETIVE AREA
HOLOLAB
TRITON SUBMERSIBLE INTERACTIVE
SUB HANGAR
MISSION DEBRIEF
IMMERSIVE AREA

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EXHIBITION MISSIONS

Onboard OceanXplorer visitors work towards completing their mission which consists of three tasks at interactive stations. The three tasks closely align with how the Xplorers work and conduct research in OceanXplorers.

PLANNING

The planning task sets up a question and hypothesis for study through the scientific method. The planning task will always relate to mapping and provide the visitor with any background information they may need to understand how to successfully execute their mission.

EXECUTION

The execution task varies depending on the mission, but is usually related to collection of data through tagging and/ or samples. This is the primary objective of each mission.

ANALYSIS

Finally, the analysis task utilizes data collected during the execution task to highlight important concepts, scientific findings, or themes relevant to *OceanXplorers*.



OCEANXPERIENCE

OceanXperience utilizes RFID technology to provide a customized visitor journey. After activating their RFID wristband, each visitor will choose from a variety of missions tailored to their interests.



MISSION CONTROL

On *OceanXplorer*, Mission Control is the heart. It connects onboard and offboard activities, as well as technology and other sensors. This essence will be captured within the exhibition; this area will be lively and buzzing with excitement.

This tone will be achieved through a quiet but steady stream of background noise (radio messages, pings from equipment and sensors, etc) as well with live feeds of other exhibition areas. Interactives will include:

- ROV pilot stations
- Mapping Touch Table
- CTD and EK80 Touchscreens



THE BRIDGE

In the Bridge, visitors will feel on alert, while paying attention to the critical operations of the vessel. As regional views are displayed on large picture windows, radio chatter and other background noises will give visitors the feeling they are part of the action.

Data feeds and interactive backlit buttons or switches will be placed across the desktop for a fully tactile experience.

Here visitors will get to pilot the vessel, interact with the Captain's control panel, and plan their mission at the mapping table.



THE HOLOLAB

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OCEANXPERIENCE

The exhibition features a replica of *OceanXplorer's* groundbreaking HoloLab, which will include the same mixed reality technology utilized onboard the vessel for scientific research missions.



HOLOLAB EXPERIENCE

In the facilitated HoloLab experience, visitors will have the opportunity to wear and use HoloLens headsets, or observe the activities of participants through N-Cam footage and a viewing window. The facilitator will guide the group in a discussion of how technology can be used as a tool to further research and collaboration, while using holograms to learn about marine biology.



WET LAB

The Wet Lab is a place for investigation and analysis. Visitors will apply meaning to collected data using the scientific method, as well as learn about the messier side of science. Entering the Wet Lab, visitors will know that this is a place for 'doing'. Inside the Wet Lab, visitors will find a refrigerator filled with samples, simulated water tanks, computer analysis stations, and a scientific study in progress.

· OCEANXPERIENCE



DRY LAB

Applying meaning to collected data and samples is an important aspect of the scientific method. The Dry Lab is where much of this happens aboard the vessel. Visitors will feel investigative and analytical as they learn about how scientists use the labs onboard *OceanXplorer*. Topics like genetics and biology are explored here with traditional interpretations, as well as a multitude of hands-on interactives.

Interactives include:

- Genetic Sequencer
- Projection Microscope
- Computer Analysis Stations

Willie & Will





SUB HANGAR

OceanXplorer's deep sea vehicles work in concert to illuminate life-changing secrets hiding in the deep. Projection on the hangar door provides a glimpse of operations through the rear of the vessel.

NEPTUNE SUBMERSIBLE

The Sub Hangar is a place in motion. Here visitors will deploy the submersible for mission tasks.

ENGINEERING STATION

Near the submersible, various hands-on activities will allow visitors to harness their inner engineer. As they approach the workbench, visitors will see three porthole windows with regional views to help set the scene.







MISSION DEBRIEF

Visitors conclude their mission at the Mission Debrief interactive after disembarking OceanXplorer. After exiting via the Sub Hangar, visitors see a breathtaking animated display of the region projected onto two surfaces. Three large touchscreen displays allow visitors to conclude their mission.

Visitors are given the option here to learn about as many of the missions as they would like, in a self-guided manner.

As visitors engage with digital content on the touchscreen, the projection animations change to indicate which subset of topics they are learning about. Topics will focus on connections from the mission to the region's larger theme; how does it all fit together? Content will also focus on next steps visitors can take to have an impact after leaving the exhibition.



IMMERSIVE AREA

OCEANXPERIENCE

A unique, immersive, audio-visual experience showcases breathtaking content captured for *OceanXplorers*. This cinematic experience will incorporate OceanX footage, narration, environmental soundscapes, along with a musical score in a dynamic 360-degree exploration of the deep.



IMMERSIVE AREA

This area highlights the ocean and its inhabitants as a majestic, living environment with never before seen footage - an exploration of the unknown. Projection-mapped content will create a rich, dynamic and emotional visitor experience - echoing the broader themes of the experience.



ABOUT THE OCEANXPLORERS SERIES

OceanXplorers will tell the stories of adventurous explorers, scientists and filmmakers with never-before-used technology as they embark on their mission, tackling challenges that arise from seeking to solve some of the ocean's greatest outstanding mysteries.

Equipped with the ship's cutting-edge scientific equipment, *OceanXplorers* will showcase the thrill of exploration and extraordinary wildlife filmmaking, pushing the boundaries of knowledge at the final frontier on Earth—its oceans. Unimaginable encounters, once-in-a-lifetime experiences and filming techniques will bring to life the magical worlds of the oceans in exquisite detail.

OceanXplorers is co-produced by OceanX and BBC Studios' Natural

History Unit and executive produced by James Cameron. The series begins streaming in 2023.

"OceanX is on a mission to explore the ocean and bring it back to the world, and there is no better opportunity to do so than through immersive storytelling like the *OceanXperience* exhibition," said Mark Dalio, Founder and Co-CEO of OceanX. "Our partnership with Flying Fish will put audiences in the front seat of ocean exploration, allowing ocean lovers, science enthusiasts, and curious, lifelong learners everywhere to experience the wonder, beauty, and excitement of our oceans and inspiring them to care about our planet's most treasured natural resource." 21



EXHIBITION HIGHLIGHTS

MISSION CONTROL

- ROV Stations
- Mapping Touch Table
- EK80 and CTD Sensor Touchscreens

BRIDGE

- Pilot Stations
- Mapping Touch Table
- Immersive Bridge Lookout Windows
- Captain's Control Panel
- Animal Tagging Interactive

HOLOLAB

- Facilitated HoloLens Experience
- Multiple Viewing Options

WET LAB

- Simulated Water Tanks
- Refrigerator with Samples
- Labwork in Progress
- Computer Analysis Stations

DRY LAB

- Genetic Sequencer
- Computer Analysis Stations
- Projection Microscope

SUB HANGAR

- Submersible Replica and Pilot Stations
- Engineering Interactives
- Sub Hangar Door Projection
- Porthole Lookout Windows

IMMERSIVE AREA

- Mission Debrief Interactive Projection Diorama
- 360-Degree Footage and Audioscapes
- Interactive Floor Projections

CONTENT SUMMARY

- Ocean Exploration, Oceanographic Basics, Marine Conservation, Human impacts, Food Trophics, Marine Protected Areas
- The Bahamas, Humpback Whales, Great Hammerhead Sharks, Orcas
- Scientific Method, Technology and Tools in Science, Engineering
- OceanX, OceanXplorer, OceanXplorers, Xplorers and Supporting Scientists



ABOUT OCEANX

OceanX is on a mission to support scientists to explore the ocean and to bring it back to the world through captivating media. Uniting leading media, science, and philanthropy partners, OceanX utilizes nextgen technology, fearless science, compelling storytelling, and immersive experiences to educate, inspire, and connect the world with the ocean and build a global community deeply engaged with understanding, enjoying, and protecting our oceans. OceanX is an initiative of Dalio Philanthropies, which furthers the diverse philanthropic interests of Dalio family members.



ABOUT FLYING FISH

Flying Fish, a world-renowned producer of touring museum and science center exhibitions, works with many of the world's preeminent institutions to effectively facilitate the production and distribution of exhibitions from museum to museum across borders and overseas. Flying Fish brings ideas, collections, and exhibitions to life through conceptualizing, designing, fabricating, and traveling these exhibitions throughout the world. Their finished products have made an impact on millions of lives world-over – bringing awe, inspiration, and education to people of all ages around the world.



SPECIFICATIONS

Space Required:	8,000 - 10,000 sq. ft.
Target Audience:	Families with children; adults
Freight:	Up to six (6) 53 ft. trailers (estimated)
Premiere :	June 2023

BOOKINGS

Accepting reservations beginning Fall 2023.

CONTACT

The exhibition, based on the *OceanXplorers* series produced by OceanX and BBC Studios Natural History Unit for National Geographic, is created and toured internationally by Flying Fish.

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