

Exploring the Unknown through Science - Technology - Art ...

This exhibition demonstrates the synergy effect of collaborations between scientists, technology and artists.

Science

Curiosity drives scientists to study the vast, unexplored depths of the oceans. What lives there?

What are they doing? How do they survive? How do they interact? How can we protect them?



Technology

The scientific understanding of ocean life depends on the development of advanced

technologies. How can we learn more? How can we overcome the physical challenges and constraints?



Art

The artwork in this exhibition reflects the artistic impressions of this relatively unexplored and unknown environment.



DEEPER THAN LIGHT - an international travelling exhibition

Deeper than Light consists of unique discoveries and impressions from deep sea expeditions along the mid- Atlantic Ridge.

The exhibition is produced in Norway by Bergen Museum and the international research project MAR- ECO, which is part of the global initiative Census of Marine Life (CoML).

Deeper than Light is also supported by the DESEO group, a collaboration of deep sea projects within CoML.

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Deeper than Light



An international travelling exhibition about the mysterious, amazing and fascinating world of the deep sea.

Living Deeper than Light

Adapting to an extreme environment
Deep-sea organisms must overcome the challenge of limited food resources as well as the physical challenges of darkness, cold temperature and high pressure. In response they have developed many fantastic or unusual body forms and behaviours to enable them to find food, to avoid being eaten and to ensure successful reproduction.



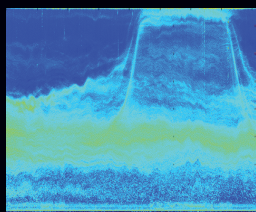
Bioluminescence

Most of the ocean is totally dark. Sunlight only reaches the top 5% of the ocean. Many of the organisms occurring below 200m create their own light; bioluminescence.

Bioluminescence may be used for: illumination, camouflage, defence or the attraction of prey or potential mates.

Greatest migrations on earth

Many ocean creatures migrate vertically up to the nutrient-rich surface waters during the night and return to the safety of the dark zone during the day; journeys that can be hundreds of metres and take several hours.



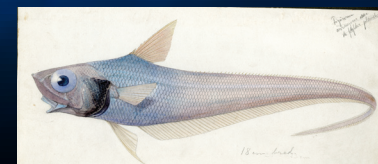
Ørnulf Opdahl

Ørnulf Opdahl is Norway's most distinguished contemporary landscape painter. He participated in the MAR-ECO expedition aboard the RV G.O.Sars in 2004 for one month. Aboard the G.O.Sars, Opdahl captured his impressions in sketches and watercolours. His "on board" anthology has provided the basis for inspiration for many oil and watercolour paintings and prints.



David Shale

After leaving research in 1979, Shale devoted himself full-time to filming and photographing wildlife. He has been involved in the making of the BBC series Blue Planet and Live from the Abyss. Shale participated on Leg 2 of the 2004 MAR-ECO expedition to the mid-Atlantic Ridge on the RV G.O.Sars



Thorolv Rasmussen

Thorolv Rasmussen was employed as scientific illustrator at the Norwegian Institute of Marine Research 1910 –1950. He started his career with the RV Michael Sars expedition to the North Atlantic in 1910. His detailed drawings of animals and seascapes are now deposited with Bergen Museum.



Technology

The scientific perception of ocean life depends not only on scientific enquiry, but also on the development of advanced technology for direct and indirect observation



and sampling under challenging conditions. New technologies facilitate more efficient observation and sampling in the deep sea and provide us with much more detailed information about the distribution and abundance of the organisms living there.