

**Mighty Bots**

**UNDERWATER  
ROBOTS**

THOMAS KINGSLEY TROUPE



**BLACK  
RABBIT  
BOOKS**



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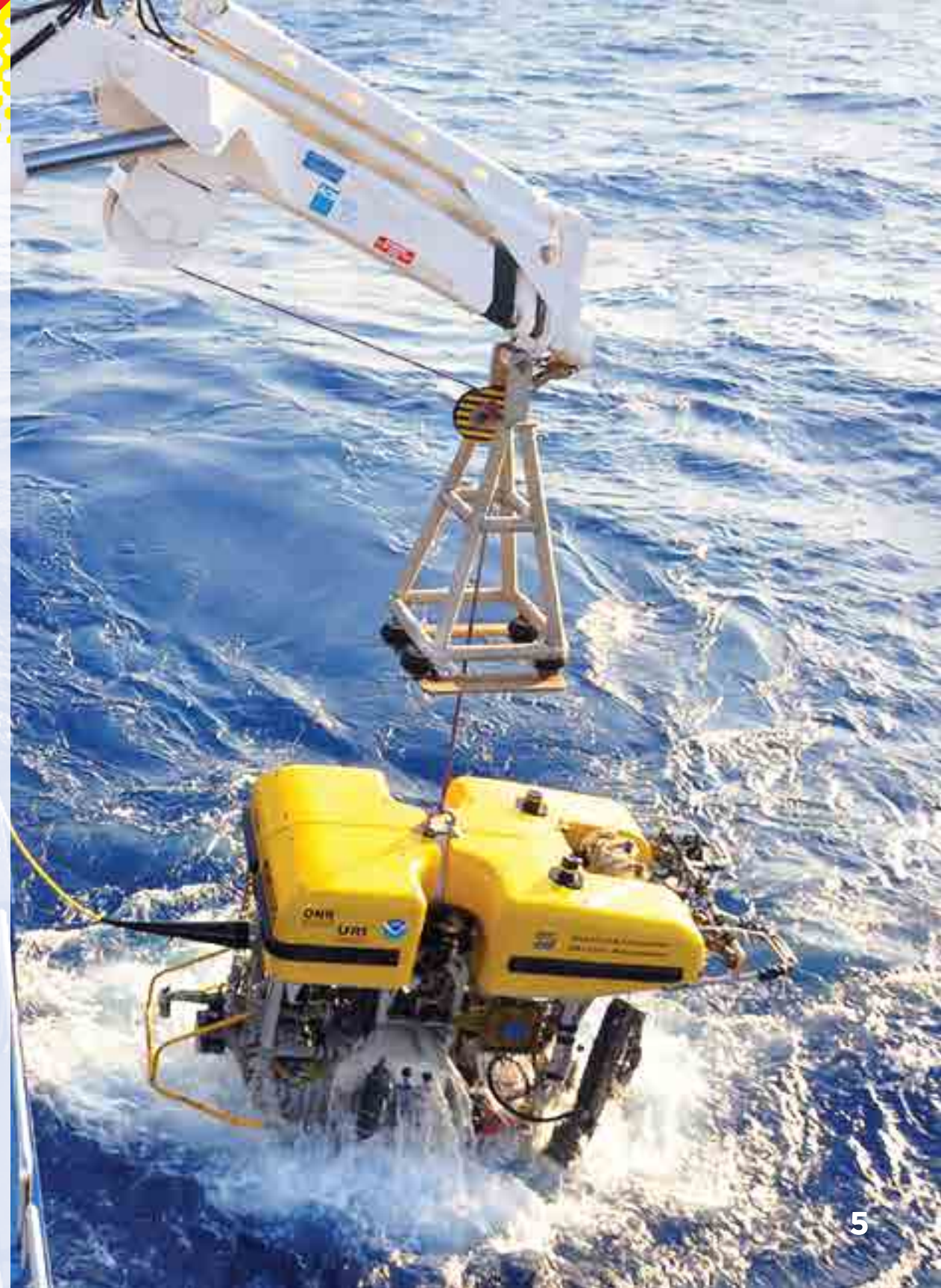
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# UNDERWATER

## Adventures

Far from shore, waves rock a boat in the Atlantic Ocean. From the boat, a yellow machine is lowered into the water. It disappears beneath the waves. The underwater robot's **mission** has begun! It is on its way to the deepest, darkest parts of the ocean. There, it will collect samples and take video.







## Deep, Deep Dives

Exploring and working in oceans is **risky**. To stay safe, people use robots. Some bots help fix and build. Others discover new places and animals.

Most underwater robots, such as the Trident, are **drones**. Drones are remote-controlled. An operator tells them where to go. Many of these bots have built-in cameras. The cameras send images to screens on the surface. The screens show the users where the bots are going.

The Trident is an ROV.  
ROV stands for Remotely Operated Vehicle.

# COMPARING DIVING DEPTHS

feet below surface

0  
3,000  
6,000  
9,000  
12,000  
15,000  
18,000  
21,000  
24,000  
27,000  
30,000  
33,000  
36,000

## SNORKELING

**1 foot** (.3 meter)  
people can swim at surface

## RECREATIONAL SCUBA DIVING

**130 feet** (40 m)  
safe diving depth with wet suit, mask, and air tank

## TECHNICAL SCUBA DIVING

**350 feet** (107 m)  
safe diving depth with proper gear and advanced training

## NEREUS (ROV)

**35,768 feet** (10,902 m)  
one of the deepest ROV dives

## DEEPSEA CHALLENGER

**35,787 feet** (10,908 m)  
deepest solo submarine dive

## TRIESTE

**35,813 feet** (10,916 m)  
one of the deepest sub dives

