

# LEBUU'S VOYAGE

## WORKSHEET

**Q1** What is a Large Scale Marine Protected Area (LSMPA)?  
Why are LSMPAs important?

**Q2** What are the main goals of the Palau National Marine Sanctuary (PNMS)?

**Q3** Why is it important that we explore the deep-sea habitats and geological features in the Palau National Marine Sanctuary?

**Q4** In 2021, in collaboration with National Geographic Society, the Palau International Coral Reef Center used a deep-sea camera system to explore Palau's seafloor. The camera captured footage, at just over 4,000ft in depth, of a Pacific sleeper shark, a large deep-water shark, in Palau's waters for the first time. Then, in 2024 in Palau, ROV *Hercules* recorded the first-ever live observations of two species of anglerfish.

**What other yet-to-be-discovered animals do you think inhabit Palau's deep ocean?**

**How do you think they may look, move, or see in the dark?**

**Q5** Imagine you're "seeing" through the eyes of the ROV during a 10-to-20-hour dive in the PNMS. The ROV descends to 13,000 ft below the surface of the ocean.

**Write a travel story about what you find.**

What colors and light do you see? What surprising or strange animals exist in deep-ocean? How does the blue zone during the descent and ascent compare to the ocean floor?

**Q6** Why is seafloor mapping important in ocean exploration? What specific habitats and geological features do you think will be mapped in Palau?

**Q7** Ocean explorers can be scientists, educators, ROV pilots, videographers, engineers, chefs, cultural liaisons, navigators, and more.

**Would you like to be an ocean explorer?**

**What career in ocean exploration would you like to pursue and why?**

**Q8** In support of Lebuu's Voyage I & II, the learning resource, **Omesubel a Kedarm**—Ocean exploration terms in Palauan language, was developed. This resource has been certified by the Palauan Language Commission. Match the Palauan Ocean Terms with the English Ocean Terms.

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| <b>Daob</b> •                           | • <b>Remotely Operated Vehicle (ROV)</b> |
| <b>Chedesaoch</b> •                     | • <b>Sponge</b>                          |
| <b>Diall er a omesuub</b> •             | • <b>Squid</b>                           |
| <b>Mlai er a omesuub</b> •              | • <b>Seabird</b>                         |
| <b>Rois er a bertakl</b> •              | • <b>Ocean</b>                           |
| <b>Merangd er a toachel</b> •           | • <b>Ship, Exploration Vessel</b>        |
| <b>Rurout</b> •                         | • <b>Seamount</b>                        |
| <b>Ngikel</b> •                         | • <b>Wave</b>                            |
| <b>Chedeng</b> •                        | • <b>Ecosystem</b>                       |
| <b>Luut</b> •                           | • <b>Deep water coral</b>                |
| <b>Suebek el charm er a daob</b> •      | • <b>Jellyfish</b>                       |
| <b>Uldekial a kakerous el klengar</b> • | • <b>Shark</b>                           |
| <b>Chedead</b> •                        | • <b>Fish</b>                            |