

Lab: Light at the Bottom of the Deep, Dark Ocean

(modified from Ocean Explorer)

1. Record the number and color of prey captured for each trial.

color	# of tubeworms captured (1 st trial)	# of isopods captured (2 nd trial)

2. Which utensil did you choose at the beginning and why?
3. Did you want to change your utensil after the first trial? Why?
4. Why were blue transparencies used within the goggles? (What did they represent?)
5. Which color of tubeworms (felt strips) was easiest to see? Which color of isopods (skittles) was easiest to see? Why?
6. How did the flash of light affect your ability to see the prey?
7. What might the flashlight represent in the world of the deep sea?
8. In “light” of what the flashlight represents, discuss the tradeoff between capturing food and being captured. Should you follow the light or avoid it?
9. Give two examples of animals that show bioluminescence.
10. The absence of light is an important limiting factor for species in the deep sea. Name two other important limiting factors in the deep sea.