






















Appendix A

STUDENT DATASHEET FOR " OBSERVING DEEPLY "

Directions: **1.)** Write the *Video File Number* of the video on the first cell of your table on the upper left. **2.)** Begin watching the video with your group and observe the animals that visit the Eye in the Sky scientific instrumentation. **3.)** Answer the questions below for each of the animals on your video. (You will need enough sheets to answer the questions for all specimens or for the number assigned).

Video Set No.: _____	Sablefish 	Rattail 	Hagfish 	Finescale Mora 	Sleeper Shark 	Crab 	 You decide...
1. Coloration:							
A. Are there signs of counter shading? If so, describe it.							
B. Is the coloration striped, banded, bared, spotted, or speckled? Describe how. If none of the above is present, describe the coloration.							
C. Explain how the animal's color is an adaptation for it's habitat or in what habitat does the animal probably live?							
2. Look at the fins (*if any):							
A. *How many dorsal fins are there?							
B. *Is the caudal fin forked or unforked?							

Video Set No.:	Sablefish 	Rattail 	Hagfish 	Finescale Mora 	Sleeper Shark 	Crab 	Unidentified 
Video File Name:							You decide...
C. *Describe the caudal peduncle.							
D. *Describe anything you notice that is extraordinary about the fins.							
E. *Is there an anal fin? If so describe it.							
F. *Describe the pectoral fins.							
G. *From the fin descriptions, would you say that this fish was a fast or slow swimmer?							
3. Body Shape:							
A. A. Is the body shape fusiform, compressed, depressed, elongate, truncate or globerform?							

Video Set No.: <hr/> Video File Name: <hr/>	Sablefish 	Rattail 	Hagfish 	Finescale Mora 	Sleeper Shark 	Crab 	Unidentified  You decide...
B. Describe the body shape in words.							
C. What is this animal's body shape probably adapted for?							
4. Mouth Position:							
A. Is the mouth located in the terminal, superior or inferior position?							
B. Where does this animal probably feed?							
5. Predict from the above features of each animal:							
A. Locomotion and speed (fast or slow).							
B. Habitat: Pelagic (open water), underwater structures (wrecks, pilings, reefs) or benthic (bottom).							

6. Conclusions: In your own words, explain how the adaptations of an animal's body (its coloration, body shape, mouth position, fin positions, and swimming style) determine where it lives and feeds.