

# **the Water Brothers** **EPISODE GUIDE QUESTIONS**

## **OCEAN SPIES**

1. Name two examples of technologies that have recently been used to combat illegal fishing?
2. What is the approximate value of the illegally caught fish taken from the ocean each year?
3. Approximately how many fish are caught illegally around the world?
4. What does IUU stand for?
5. What are the main types of fish that illegal fishermen are targeting in Palau?
6. Name one of the two major marine conservation achievements made by Palau in the past decade?
7. Where did the illegal fishing boat captured in Palau come from?
8. Why did the boat come to fish in Palau from so far away?
9. Why is it so difficult for Palau to monitor its waters for illegal fishing?
10. Name the satellite surveillance project launched in England.
11. How does the satellite project track boats?
12. Name two benefits of using drones compared to airplanes and other conventional surveillance technologies.
13. What are the two kinds of renewable energy used to power the Wave Glider?
14. What does the wave glider drag through the water to detect illegal fishing?
15. How could the wave glider become even more effective in the future?



# the Water Brothers EPISODE GUIDE ANSWERS

## OCEAN SPIES

- 1. Name two examples of technologies that have recently been used to combat illegal fishing?**  
Drones, satellites and robots
- 2. What is the approximate value of the illegally caught fish taken from the ocean each year?**  
23 billion dollars
- 3. Approximately how many fish are caught illegally around the world?** Approximately 1 in 5 fish
- 4. What does IUU stand for?** Illegal, Unreported and Unregulated fishing
- 5. What are the main types of fish that illegal fishermen are targeting in Palau?** Tuna and sharks
- 6. Name one of the two major marine conservation achievements made by Palau in the past decade?** Banned shark fishing in 2009 or banned all foreign commercial fishing in 2015
- 7. Where did the illegal fishing boat captured in Palau come from?** The Philippines
- 8. Why did the boat come to fish in Palau from so far away?** The fishermen traveled a great distance to Palau to make money and because there are no fish left in the Philippines due to overfishing.
- 9. Why is it so difficult for Palau to monitor its waters for illegal fishing?** There is only one patrol boat, their territory is massive, patrolling is expensive, they can only afford 6 to 8 patrols per year
- 10. Name the satellite surveillance project launched in England.** Project Eyes on the Seas
- 11. How does the satellite project track boats?** Using AIS, the Automatic Identification System
- 12. Name two benefits of using drones compared to airplanes and other conventional surveillance technologies.** Drones are less expensive to operate, safer to use in unsafe and hostile environments, harder to detect by illegal fishermen
- 13. What are the two kinds of renewable energy used to power the Wave Glider?** Solar and Wave energy
- 14. What does the wave glider drag through the water to detect illegal fishing?** The glider drags an acoustic device/microphone to listen for illegal fishing boats
- 15. How could the wave glider become even more effective in the future?** The wave glider could become more effective by being used in fleets along with other technologies such as satellites and drones