

Argo Floats Video Answers

Monday 23 June

1. The Life of a Young Scientist

There are nine scientists on this voyage including Denise Fernandez. Denise is a student, starting out on her career as a scientist.

1. Where is Denise from?
 - Answer: Argentina
2. What courses did Denise study at first at university?
 - Answer: physics and mathematics
3. What is Denise doing on this voyage?
 - Answer: observing the other oceanographers, collecting water samples and helping to analyse them
4. Besides working with cold water and getting sea sick what are some other challenges of being a scientist on board the *Tangaroa*?
 - Answer: working on a shift (or watches) eg 3am to 3pm.

Next step learning: Find out about other science careers that involve water (other than oceanography).

2. How does a CTD work?

The CTD is a very important piece of equipment, and Matt Walkington is the guy to talk to about it.

1. What are the two jobs that the CTD does?
 - Answer: takes measurements electronically and takes water samples
2. What is one measurement that is made using sensors?
 - Answer: (one of) temperature, salinity, dissolved oxygen
3. How does the electronic signal from the sensor get back to the computer onboard the *Tangaroa*?
 - Answer: it goes through the 'fish', then through the cable back to the ship
4. When the CTD is lowered into the water all the Niskin bottles are open and water can flow through them. How are they closed?
 - Answer: by a signal from the ship
5. How many Niskin bottles are there on a CTD?
 - Answer: 24
6. Why are there two different ways of measuring temperature, salinity and dissolved oxygen on the CTD?
 - Answer: to improve the accuracy of what is being measured
7. What is the major objective of this voyage?
 - Answer: Compare the information from the CTD with information from the prototype Deep Argo Floats



Next step learning: Find out about electronic sensors that measure things about the environment. What are they used for?

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