

Animation

RV *Investigator* – moorings (general)

[YouTube] ref: <http://youtu.be/3w-2aBiAzS8>

Transcript

[Music plays and plankton appear on screen with text: Marine National Facility]

[Camera pans over a school of southern bluefin tuna]

[Image changes to show an animation of the RV *Investigator*]

[Text appears: RV *Investigator* Deploying a Mooring]

[Image changes as camera goes to the stern and text appears: A mooring is a long anchored line of scientific equipment and floats, deployed to collect data from the ocean for 1-2 years.]

[Image changes to show a mooring being deployed into the ocean]

[Image changes to show an anchor descending into the ocean, with a parachute attached, and text appears: Mooring lines are usually deployed with the anchor last, and a parachute is used to create a gentle descent.]

[Image changes to show anchor on the ocean floor attached to a mooring array and text appears: The top of a sub-surface mooring is typically 20 m below the surface, to remove any impact from ocean waves and ships.]

[Image changes to show various moorings on the ocean floor, arrows appear to show 20 metre depth and 5 kilometre width, and text appears: Sub-surface moorings measure things like temperature and conductivity (saltiness) at the same depth, across an ocean current. Scientists compare the data from each mooring, to determine changes in the current.]

[Image changes to show a surface mooring and text appears: Surface moorings collect ocean, meteorological and atmospheric data, like wind speed, wave height and temperature.]

[Image changes to show a mooring array beneath the ocean and text appears: Below the surface it records data like current, conductivity and temperature.]

[Image changes to show graphed samples of the data collected. Text appears: Scientists use mooring data to measure changes over time, and to learn more about important ocean currents like the Leeuwin Current.]

[CSIRO logo appears with text: Big ideas start here www.csiro.au]

MNF: <http://www.marine.csiro.au/nationalfacility/>

Investigator blog: Investigator@CSIRO