



Investigator Tour

CSIRO TV ref: <http://tv.csiro.au/?v=xbz189bynqxui>

YouTube ref: <http://youtu.be/j2bhp8DCSjk>

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Transcript

[Music plays and text appears: Investigator tour]

[Image changes to show aerial footage of the research vessel Investigator underway with music]

[Image changes to Max McGuire walking up stairs and around corner]

[Image changes panoramic view out the front windows of bridge]

[Image changes to show control panel]

Max McGuire: Welcome to the bridge on Investigator, my name's Max McGuire and I work for the MNF.

[Image changes to control panel]

I am the voyage manager onboard investigator at the moment.

[Image changes to show Max McGuire]

[Text appears: Max McGuire Voyage Manager]

At the moment as I said we're standing in the bridge. This is the heart and soul of Investigator. This is where we can control the navigational movements of the ship, as well as every aspect and every system onboard the ship.

[Image changes to control panel]

This is the main control panel on Investigator.

[Image changes to Max McGuire]

Ah, there's lots of buttons, lots of screens, it looks very complicated but essentially it's very easy.

[Image changes to main control panel and screen sequence]

Starting with the engine controls, they move the ship around as well the bow thruster. The rudder controls are here as well to steer the vessel. A lot of communication devices for both internally around the ship and externally talking to other ships in the area. It's a very busy place when we're underway and again certainly probably one of the most important part of the bridge.

[Image changes to Max walking down corridor]

There's seven decks above the main deck on board the ship

[Image changes to inside cabin]

and this is my cabin. I'm lucky I've got a very big space,

[Image changes to Max McGuire]

a nice big office as well as my sleeping quarters as being the voyage manager.

[Image changes to pan inside cabin sequence]

It's a new cabin, it's a new ship and it's probably one of the greatest things being onboard Investigator is that everything is brand new. The voyage manager's cabin is very comfortable. It's plenty big, I've got a nice big single bed

[Image changes to Max McGuire in sleeping quarters]

and lots of cupboard space. It is a comfortable cabin. It's a lovely big ship.

[Image changes to Max McGuire donning high-vis vest]

[Image changes to aft deck]

Welcome to the aft main deck of Investigator.

[Image changes to Max McGuire]

This is one of our containerised labs, come and have a look inside.

[Image changes to going into container lab]

Investigator has space for thirteen containerised facilities onboard

[Image changes to Max McGuire opening door of container lab]

and this one lives on the aft deck,

[Image changes to inside container lab]

it is the trace metal clean laboratory.

[Image changes to Max McGuire going downstairs, corridor and through door]

[Image changes to Max McGuire in operations room]

Welcome to the ops room located on the main deck of investigator.

[Image changes to computer screen showing seafloor data]

Down here we monitor all the collection of data taken by investigator.

[Image changes to Max McGuire]

With me today is Dr Tara Martin.

[Dr. Tara Martin comes into frame]

Tara Martin: Hi Max

Max McGuire: Thanks Tara and exactly what are we doing down here?

Dr. Tara Martin: We're mapping the sea bed down here. We're doing that with remote sensing because we don't want to have to go for a swim every time we want to see what's on the sea floor. So we do that with sonar. We're sending sound pulses through the water

[Image changes to screen showing data]

and that hits the bottom, comes back to us and we measure the time it takes to come back.

[Image changes back to Tara and Max]

By doing this with a whole lot of beams we can map the sea floor in three dimensions in very high resolution.

[Image changes to screen with data]

This is the data that we've acquired through the night and we can look at that in two dimensions and three dimensions. This helps us process the data and interpret the data as we're going.

[Image changes to another screen showing fisheries sonar data]

Max McGuire: And what are we looking at on this screen?

Dr. Tara Martin: This is a very exciting instrument. Very few ships in the world have one of these yet. This is a multi-beam, multi-frequency fisheries sonar. And this gives us a large number of beams that look through the water column and let us measure schools of fish in real-time in three dimensions.

[Image changes to Max McGuire walking along corridor]

[Image changes to stainless steel doors]

Max McGuire: Investigator is capable of being at sea for extended periods.

[Image changes to label above door and temperature gauge]

For up to 60 people at one time, that's a lot of mouths to feed.

[Image changes to Max McGuire]

This is one of three refrigerated areas on board to cater for all those hungry souls.

[Image changes to food in the mess]

[Image changes to Max McGuire with plate in hand]

Thanks for coming on the tour with me and now it's time for dinner.

[Image changes to aerial shot of Investigator underway]

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

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