



**MATHS MIGHT SEEM AN UNLIKELY HERO, BUT WHEN IT COMES TO UNDERSTANDING & PROTECTING COMPLEX OCEAN ECOSYSTEMS, IT IS A POWERFUL & IMPORTANT TOOL.**

*- Dr Martin Marzloff*

# MATHS – AN UNSUNG HERO

MATHS TAKES YOU PLACES...  **TASMANIA**

French scientist, Dr Martin Marzloff, who did his PhD in Tasmania, says maths is essential for understanding the dynamics of Tasmania's temperate reef ecosystems, and fending off attack by an invasive sea urchin.

These models defined 'tipping points' – for example; how many large lobsters (urchin predators) were needed to prevent the barrens forming.

**The CSIRO-UTAS PhD Program in Quantitative Marine Science (QMS) is offered through the University of Tasmania's specialist Institute for Marine and Antarctic Studies and CSIRO Marine and Atmospheric Research.**

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