



Media Release

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From plankton DNA to outer space, University secures \$9 million for new research

The University of Tasmania has secured \$9 million for projects ranging from using to develop an Australian plankton record stretching back 1000 years, to using to map remote vegetation and provide early warnings of droughts, diseases and pests.

This funding was won in the latest round of the Australian Research Council's major grants program, announced today to by the federal nation Senator Simon Birmingham.

University Vice-Chancellor Professor Peter Rathjen said the projects would add to the globally impactful research currently underway in Tasmania.

"The work that our academics do here in Tasmania answers questions, and poses new ones, that are crucial to Australia and the international community," Rathjen said.

"Securing funds from the Australian Research Council's competitive our success confirms our place as a cutting edge research-led institution."

Five of University of Tasmania academic were funded across three projects, totalling over \$6.8 million. The grants bring with them additional block funding, which takes the total value to the University and the State to just over \$9 million.

Deputy Vice-Chancellor (Research) Professor Briand Heywood said the projects highlight both the breadth of research strengths, particularly in the Environment, Sustainable Sustainability and the Marine, Antarctic and Maritime Sciences.

"This is a small snapshot of the work that our academics are driving, and the investment in research and innovation that it takes to do it. Professor Heywood said.

; with these projects, and many others, Tasmania will continue to play a key role in building a successful future."

Some of the projects funded include:

~~Assessing ancient plankton records~~

Australian plankton records 1000 years by using DNA technology to examine sediment depth cores. Long-term records are essential to understand how disruptive algal and jellyfish blooms, introduced species and increased human use of coastal resources affect dynamic plankton ecosystems.

Dr Zbynek Malenovsky will develop algorithms to map vegetation stress indicators from space-borne missions' optical observations of Earth, paving

inaccessible Australian and Antarctic areas. More accurate and timely remote sensing maps of early stress symptoms will provide early warnings of droughts, fires and water scarcity and where to protect ecological functions of wild natural systems and help to ensure a greater increase in agricultural food production.

Dr Kate Booth will analyse house and contents insurance to advance strategic disaster management. By understanding the cost of insurance, the aim is to improve disaster policy and practice, and reduce the householders.

~~Assessing Rabbit Management Methods~~

suppressing invasive prey – rabbits – centres with a focus on social and predators – cats – on native wildlife. The effective control of cats is difficult at large-scales but rabbit control is feasible. The aim is to prov