



## 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 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 by the federal 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 grants program confirms our place as a cutting-edge research-led institution."

Five of University of Tasmania academic units were funded across three grants programs 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 involved both the Environment and the Faculty of Engineering, Computing and Technology.

"This is a small snapshot of the work that our academics are driving, and the investment in research and innovation unit is a world record," 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:

**Australian plankton recorder**

Australian plankton recorder technology to examine sediment depth cores 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, wind damage and where to protect ecological functions of wild natural systems and help in sustainable environmental management and 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 costs to householders.

**Assessing the effects of feral cats on native mammals**

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