

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Tasmania

University of Tasmania

LP100200122 A/Prof Graham J Edgar, Dr Rick D Stuart-Smith, Prof David J Booth, Dr Alan R Jordan, Prof David J Ayre, A/Prof Jonathan M Waters, Dr Timothy D O'Hara, Dr Gary C Poore

Approved Project Title **Biotic connectivity within the temperate Australian marine protected area network at three levels of biodiversity, communities, populations and genes**

2010	\$100,000.00
2011	\$227,500.00
2012	\$275,000.00
2013	\$240,000.00
2014	\$192,500.00
2015	\$100,000.00
Primary FoR	0602 ECOLOGY

APAI 1

APDI Dr Rick D Stuart-Smith

Partner/Collaborating Organisation(s)

NSW Department of Environment, Climate Change and Water (DECCW), Parks and Wildlife Service, Tasmania, Parks Victoria, People and Parks Foundation , SA Department of Environment and Heritage

Administering Organisation University of Tasmania

Project Summary

Project outcomes will improve management of coastal biodiversity through a multi-state collaboration of managers, marine ecologists, population geneticists and taxonomists. Sites most needed within marine protected area (MPA) networks for maintaining resilience of populations across seascapes will be identified, including sites with exceptional endemism or key roles in dispersal of larvae. The ecological efficacy of the temperate Australian MPA network will be assessed through analysis of long-term ecological datasets and further development of a novel 'remote sensing' methodology, whereby surveys are undertaken by volunteer divers across much greater spatial and temporal scales than could be studied by dedicated scientific dive teams.

LP100200456 A/Prof Sergey Shabala, Prof Dr Timothy J Flowers, Mr Gabriel G Haros

Approved Project Title **Halophytes for high-saline agriculture: optimising performance and understanding physiology**

2010	\$42,500.00
2011	\$80,000.00
2012	\$72,500.00
2013	\$65,000.00
2014	\$30,000.00
2015	
Primary FoR	0703 CROP AND PASTURE PRODUCTION

Partner/Collaborating Organisation(s)

PundaZoie Company Pty. Ltd

Administering Organisation University of Tasmania

Project Summary

The recent drought has shaved off up to 1 per cent of Australia's economic growth and resulted in losses of over \$6 billion in crop and livestock production. At the same time, very large volumes of water with impaired chemical quality are generated by industry and municipal water treatment processes. In most cases, these cannot be used directly for crop irrigation and have to be disposed of at extreme cost and waste. This project will utilise halophytes as 'alternative cash crops' to use the saline water produced by the coal seam gas operations in the Surat Basin area in Queensland. This will result in a saving of at least \$48 million over the five years of operation.