



# Biodiversity Conservation

The Research Institute for the Environment and Livelihoods (RIEL) conducts internationally recognised research aimed at improving the conservation and management of tropical and arid biodiversity in Australia and globally. Indigenous partnerships are an intrinsic part of our Biodiversity Conservation research approach.

## PROJECTS & OPPORTUNITIES

RIEL strives to make a real-world impact. We collaborate and engage with a wide range of research and industry partners, ensuring that our research contributes to the sustainable management of tropical and arid ecosystems.

Our research strengths include:

- > Aligning Australia's threatened species assessments with global standards;
- > Area-based conservation planning for biodiversity management;
- > Using and advancing genetic tools to manage biodiversity in terrestrial and aquatic environments
- > Identifying major drivers of species threat and extinction, for improved management;
- > Improving conservation and management of threatened marine species;
- > Researching climate change adaptation of threatened species beyond their normal home range;
- > Predicting ecological impacts of climate change on aquatic and terrestrial ecosystems in northern Australia and globally;
- > Understanding growth performance and physiological range of weed species for targeted management;

- > Reconstructing eco-hydrological function of woodlands at mine sites;
- > Developing innovative technologies and analysis techniques to understand land use and climate change impacts on native flora and fauna;
- > Assessing the ecological response of native birds and mammals to fire management regimes;
- > Develop and apply molecular methods to understand northern Australian biogeography and inform species conservation.

## RESEARCH

Our researchers offer specialist knowledge and advice in the following areas:

- > Environmental monitoring and management;
- > Terrestrial ecology;
- > Animal movement and behaviour;
- > Threatened species conservation and management;
- > Invasive plant and animal management;
- > Native vegetation restoration;
- > Post-mining environmental service restoration.

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