

1. **ACERA Project No.:** 06 / 03
2. **Project Title:** New spatial analysis methods for improved hazard/risk identification
3. **Theme:** Surveillance and monitoring
4. **Rationale:** Information on species distributions is increasingly used to underpin the management of natural resources, including identification of representative reserves, assessment of threats to rare species, setting targets for ecosystem restoration, and managing the sustainable use of harvested species. This working group will bring together world-wide experts in spatial modelling and invasion biology, identify the most promising and relevant tools for analyses, and selectively test a range of new spatial analysis methods on two or three problems posed by DAFF, in the form of challenge problems.
5. **Outputs:** The working group will produce a report that reviews alternative methods and their utilities for different contexts, makes recommendations about the employment of new methods for predicting the spatial distribution of invasive species, pathogens and diseases, and that provides guidelines for the sorts of problems amenable to analysis with spatial distribution models.
6. **Time frame:** Commencing: *March 2007*, Finishing: *December 2007*

**7. Project Leader(s):**

Title	Name	Organisation
Prof.	Matt Wand	UNSW
Dr	Jane Elith	UoM
Dr	Brendan Wintle	UoM
Dr	Daniela Leonte	UNSW

**8. Resources**

	06/07	07/08	08/09
<i>Salaries and stipends</i>			
<i>Travel</i>	11,200		
<i>Operating and capital</i>	19,600		
<b>Project Total</b>	<b>\$38,300</b>		

9. **End Users:** AQIS, PIAPH, AusBioSec, AHA, PHA, BRS, ABARE