

Biographical summary

Dr Gabriel Crowley

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Editor, North Queensland Naturalist
 Environmental Consultant
 Adjunct Principal Research Fellow
 James Cook University Cairns Australia
 Phone. Qld: 07 4091 1221;
 SA: 08 5553 7082; Mob: 0438 531 120

BSc (Hons) Department of Geography, Monash University

PhD Department of Botany, James Cook University of North Queensland

gay.crowley@gmail.com

www.nqnat.org

Gay Crowley is an environmental scientist who spends her time between north Queensland and Kangaroo Island, South Australia. She has over 30 years' experience in natural resource planning, management and research. She recently coordinated the NRM Plan for Queensland's Southern Gulf region and produced their climate change report. She has also produced comprehensive reports on

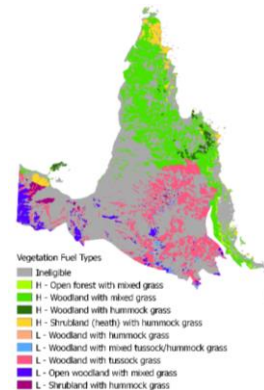


the conservation economy and beef industry in northern Australia.

Gay's interests include the research and management of threatened species habitat and food resources. She recently established Southern Gulf NRM's Carpentarian Grasswren project, which aims to reduce the impact of wildfires on this species, and is currently collaborating on papers assessing the conservation status of the Golden-shouldered Parrot and factors leading to road deaths among Lumholtz Tree Kangaroos.

Another research interest is reconstruction of past environments from pollen records, as well as understanding how environmental factors have shaped the distribution of species across northern Australia.

A large part of Gay's work has been developing online and desktop tools for land managers to plan and evaluate their management. This included developing Queensland Parks and Wildlife's vegetation monitoring program in 2002, and designing and managing the Northern Territory Infonet <http://infonet.org.au> to provide property-scale information to assist fire and biodiversity management, which has now been extended across northern Australia. Since 2014, Gay has produced the maps used to calculate emission reductions for several Indigenous Savanna Burning projects on Cape York Peninsula. She has now extended this work into production of templates for assessing viability of potential projects and evaluating the carbon and biodiversity outcomes of existing ones. Gay sees her involvement in NQ Naturalist as another means of improving the understanding and management of northern environments.



Gabriel Crowley – Key Publications

Gay has co-authored over 100 books, reports, plans, chapters and peer reviewed publications. A full list can be provided on request.

Selected refereed publications

- Adams VM, Álvarez-Romero JG, Capon SJ, Crowley GM, Dale AP, Kennard MJ, Douglas MM & Pressey RL 2017. Making time for space: The critical role of spatial planning in adapting natural resource management to climate change. *Environmental Science and Policy* **74**:57-67.
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- Crowley GM & Garnett ST 1998. Vegetation change in the grasslands and grassy woodlands of east-central Cape York Peninsula, Australia. *Pacific Conservation Biology* **4**:132-48.
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- Crowley GM, Garnett ST & Shephard S 2009. Impact of storm-burns on *Melaleuca viridiflora* invasion of grasslands and grassy woodlands on Cape York Peninsula, Australia. *Austral Ecology* **34**:196-209.
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- Landsberg J & Crowley GM 2004. Monitoring rangeland biodiversity: Plants as indicators. *Austral Ecology* **29**:59-77.
- Preece N, Crowley GM, Lawes MJ & van Oosterzee P 2012. Comparing above-ground biomass among forest types in the Wet Tropics: small stems and plantation types matter in carbon accounting. *Forest Ecology and Management* **264**:228-37.

Selected plans and reports

- Crowley GM 2016. Climate change in the Southern Gulf region: Nature, impacts and responses (Southern Gulf Natural Resource Management: Mount Isa). www.southerngulf.com.au/wp-content/uploads/2016/11/172046-SGCNRM-Climate-Change-Report-FINAL.pdf
- Crowley GM 2016. Trends in natural resource management in Australia's Monsoonal North: The conservation economy (The Cairns Institute, James Cook University: Cairns). http://researchonline.jcu.edu.au/43625/1/Conservation_economy.pdf
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- Crowley GM, Felderhof L, McIvor JG & Bolam M 2013. Business and RD&E plan to determine the value proposition for greater use of fire in the grazing lands of northern Australia (Meat and Livestock Australia, North Sydney) www.mla.com.au/Research-and-development/Final-report-details?projectid=15511
- Crowley GM, Garnett ST, Meakins W, & Heinrich A 1998. Protection and re-establishment of Glossy Black-Cockatoo habitat in South Australia: Evaluation and recommendations (Glossy Black-Cockatoo Rescue Fund, South Australian National Parks Foundation: Kingscote).
- Crowley GM, Garnett ST & Shephard S 2004. Management guidelines for Golden-shouldered Parrot conservation (Queensland Parks and Wildlife Service, Brisbane). www.firescape.com.au/wp-content/uploads/2012/10/Management-Guidelines-GSP-Conservation.pdf
- Garnett ST & Crowley GM 2000. The action plan for Australian birds 2000 (Environment Australia: Canberra). www.environment.gov.au/resource/action-plan-australian-birds-2000
- Southern Gulf Natural Resource Management 2016. Regional Natural Resource Management Plan: A plan to assist the Southern Gulf community to protect and restore the environment through improved management practices and sustainable livelihoods (Southern Gulf Natural Resource Management: Mount Isa). www.southerngulf.com.au/wp-content/uploads/2017/01/SG-NRM-Plan_LOW-RES.pdf
- Territory NRM 2010. Northern Territory Integrated Natural Resource Management Plan 2010-2015 (Territory Natural Resource Management: Darwin). www.territorynrm.org.au/inrm-plan/2010-2015-inrm-plan