

MR RAYMOND TURNBULL - Senior Zoologist and Ornithologist

Ray has worked in the environmental field for over 15 years, both in the public and private sector. He has a Bachelor of Natural Resources and a Graduate Diploma in Ornithology. Ray is experienced in conducting remote location fauna surveys, targeted threatened species surveys and ecological assessments. He has undertaken terrestrial fauna surveys, biological and environmental impact assessments for a range of projects in the South-west, Swan Coastal Plain, Pilbara, Kimberley and Goldfields areas of Western Australia, as well as in the deserts of the Northern Territory and South Australia, the Mt Isa region in north-west Queensland, south-east New South Wales and eastern Tasmania. He has also worked with the Royal Society for the Protection of Birds in the United Kingdom undertaking habitat management for a range of threatened species as well as conducting all field work for a re-introduction project.

Prior to joining Terrestrial Ecosystems, Ray was Assistant Warden at the Broome Bird Observatory where he was responsible for the continuation of the Observatory's long established bird monitoring programs and conducting guided tours to see the birds of Roebuck Bay and surrounding areas.

AREAS OF EXPERTISE

- Ornithological surveys
- Terrestrial fauna surveys and assessments
- Fauna monitoring programs
- Fauna relocation
- Threatened species assessments
- Pest species management

QUALIFICATIONS

- Graduate Diploma of Ornithology – Charles Sturt University
- Graduate Certificate of Ornithology – Charles Sturt University
- Bachelor of Natural Resources – University of New England
- 'A' Class Bird Banding Licence (Level 3A Mist nets) (March 2012)
- Certificate III (Vertebrate Pest Management)

PROFESSIONAL AFFILIATIONS

- Birdlife Australia (Royal Australian Ornithologists Union)
- Australasian Wader Studies Group

PROFESSIONAL TRAINING

- Workplace Firearms Training (June 2016)
- Chemical Capture of Wildlife in Western Australia (October 2014)
- Apply First Aid – HLTF301C (November 2013)
- Basic Wildlife Rehabilitation Course (August 2013)
- Environmental Assessment Training Course for Practitioners (June 2013)
- Work Safely in the Construction Industry – CPCOHS1001A (May 2013)
- Operate Ride-on Vehicles – RTE2308A (September 2012)
- Operate Four Wheel Drive Vehicle – TLIC2025A and (June 2012)
- Operate Commercial Vehicle – TLIC1051A (June 2012)
- Trim and Crosscut Felled Trees – FPICOT2221B (January 2012)
- Course in Armed Robbery Survival Skills – 9131SNSW (November 2009)
- General Fire-fighter Departmental Fire Accreditation (November 2007)
- Helicopter Safety, Hover Exit and Winch Operations (August 2007)
- NPTC Level2 Certificate of Competence in Brushcutting Operations (November 2006)
- Sand Plot Monitoring Course (August 2003)
- Aboriginal Cultural Heritage Site Identification and Management (August 2002)
- Aboriginal Cultural Awareness (March 2007)

CAREER SUMMARY

2012 - current	Senior Zoologist and ornithologist – Terrestrial Ecosystems
2010 – 2011	Assistant Warden (seasonal) – Broome Bird Observatory
2009	Ranger – National Parks & Wildlife Service (NSW) – Bombala
2007 – 2012	Project Fire-fighter (seasonal) – Department of Sustainability & Environment (VIC) - Bendoc
2007	Ranger – National Parks & Wildlife Service (NSW) – Tumut
2006 – 2007	Assistant Warden – Royal Society for the Protection of Birds (UK) – Blacktoft Sands Nature Reserve
2006	Corncrake Project Field Assistant – Royal Society for the Protection of Birds (UK) – Nene Washes Nature Reserve
2000 – 2004	Ranger – National Parks & Wildlife Service (NSW) – Bombala

SELECTED PROJECT EXPERIENCE

- Jolimont Fauna Translocation
- Marangaroo Golf Club Kangaroo Relocation
- Ellenbrook Kangaroo Relocation
- Ravensthorpe Nickel Operations Fauna Monitoring
- Northern Quoll Monitoring (Roy Hill Rail Line)
- Mount Gibson Fauna Monitoring (Mount Gibson Iron)
- Mount Anketell Fauna Survey
- Trinity Fauna Translocation
- Golden Bay Bandicoot Monitoring
- Madora Bay Fauna Translocations
- Wellard Cockatoo Habitat Assessments
- Mulga Downs Fauna Survey (Hancock Prospecting)
- Aldiss Fauna Survey (Integra Mining)
- Wheatstone Project Fauna Handler (Bechtel)
- Bald Island Noisy Scrub-bird Survey (DEC)
- Newhaven Bird Survey (Australian Wildlife Conservancy)
- Newhaven Fauna Survey (Australian Wildlife Conservancy)
- Roebuck Bay Shorebird Monitoring (Broome Bird Observatory, Global Flyways Network)
- Mangrove Bird Communities Population Structure and Movements (Broome Bird Observatory)
- Pindan Bird Communities Population Structure and Movements (Broome Bird Observatory)
- Roebuck Bay Seagrass Monitoring (DEC)
- Roebuck Bay Mud-sampling (Broome Bird Observatory, DEC)
- MYSMA Eighty Mile Beach Shorebird Counts (Broome Bird Observatory, Global Flyways Network)
- Tasmanian Swift Parrot Survey (TAS DPIPW)
- NW QLD Grasswren Surveys (Birds Australia North Queensland)
- Brogo River Platypus Survey (NSW DECC)
- Kalamurina Bird Survey (Australian Wildlife Conservancy)
- Bemboka River Platypus Survey (NSW DECC)
- Yass Daisy Survey – Livingstone National Park (NSW NPWS)
- Shorebird Banding (Wash Wader Study Group UK)
- Nene Washes Corncrake Reintroduction Program (Royal Society for the Protection of Birds UK)
- Blacktoft Sands Habitat Management Program (Royal Society for the Protection of Birds UK)
- NSW Far South Coast Bell Miner Project
- Melbourne Platypus Survey (Australian Platypus Conservancy)

PUBLICATIONS*Journal Articles*

- Oorebeek, M and Turnbull, R.W. *in press*. Prey handling technique used by a Black-necked Stork *Ephippiorhynchus asiaticus* on a large fish. *Australian Field Ornithology*.
- Green, R., Turnbull, R.W. and Watson, D. 2007. An inland record of Pacific Baza at Tibooburra NSW. *Australian Field Ornithology* 24: 26-29.
- Turnbull, R.W. 1998. Distribution of the Platypus (*Ornithorhynchus anatinus*) in the Bombala River catchment, south-eastern New South Wales. *Australian Mammalogy* 20: 251-256.

Reports

- Turnbull, R. 2009. The Distribution of the Platypus (*Ornithorhynchus anatinus*) in the Brogo River Catchment, south-eastern New South Wales. A Report to the Department of Environment and Climate Change, Merimbula.
- Turnbull, R. 2008. The Distribution of the Platypus (*Ornithorhynchus anatinus*) in the Bemboka River Catchment, south-eastern New South Wales. A Report to the Department of Environment and Climate Change, Merimbula.
- Davidson, I. and Turnbull, R, 2007. Report on Yass Daisy in Livingstone National Park and State Recreation Area 2007. A Report to the Department of Environment and Climate Change, Tumut.
- Turnbull, R. 2006. The Nene Washes Corncrake Re-introduction Project – Field Report 2006 Season. Internal Report, Royal Society for the Protection of Birds.
- Turnbull, R. 2001. Far South Coast Region – Pest Management Strategy. Internal Report, NSW National Parks and Wildlife Service, Merimbula.
- Turnbull, R. 2000. Review of Environmental Factors: Upgrade of Cattleman's Link Trail – South East Forests National Park. Report to the NSW National Parks and Wildlife Service, Bombala.
- Turnbull, R. 2000. Review of Environmental Factors: Fuel Management Program 2000 – Coolumbooka Nature Reserve. Report to the NSW National Parks and Wildlife Service, Bombala.
- Turnbull, R. 2000. Review of Environmental Factors: Fuel Management Program 2000 – South East Forests National Park (Genoa Section). Report to the NSW National Parks and Wildlife Service, Bombala.
- Turnbull, R. 2000. Survey of Platypus in the Proposed Bombala River Platypus Sanctuary. A report to the Bombala and District Development Association.
- Turnbull, R. 1999. Review of Environmental Factors: Canid Control Program – Eden District. Internal Report, NSW National Parks and Wildlife Service, Bombala.