
Endnotes

Chapter 1

- 1 Mora C, Tittensor DP, Adl S, Simpson AGB, Worm B (2011) How many species are there on earth and in the ocean? *PLoS Biol* **9**, e1001127. doi:10.1371/journal.pbio.1001127; this estimate may not yet include the full but unknown diversity of microbes.
- 2 Ladiges P, Evans B, Saint R, Knox B (2010) *Biology: An Australian Focus*. McGraw-Hill, Sydney.
- 3 Millennium Ecosystem Assessment (2005) *Ecosystems and Human Well-Being: Synthesis*. Island Press, Washington, DC. <<http://www.millenniumassessment.org/en/index.html>>.
- 4 Farnham TJ (2007) *Saving Nature's Legacy: Origins of the Idea of Biological Diversity*. Yale University Press, New Haven, CT.
- 5 Cardinale BJ, Duffy JE, Gonzalez A, Hooper DU, Perrings C *et al.* (2012) Biodiversity loss and its impact on humanity. *Nature* **486**, 59–67.
- 6 TEEB (2010) *The Economics of Ecosystems and Biodiversity. Mainstreaming the Economics of Nature: A Synthesis of the Approach, Conclusions and Recommendations of TEEB*. <<http://www.teebweb.org/wp-content/uploads/Study%20and%20Reports/Reports/Synthesis%20report/TEEB%20Synthesis%20Report%202010.pdf>>.
- 7 Collins SL, Carpenter SR, Swinton SM, Orenstein DE, Childers DL *et al.* (2011) An integrated conceptual framework for long-term social–ecological research. *Frontiers in Ecology and Environment* **9**, 351–357.

- 8 Gorenflo LJ, Romaine S, Mittermeier RA, Walker-Painemilla K (2012) Co-occurrence of linguistic and biological diversity in biodiversity hotspots and high biodiversity wilderness areas. *Proceedings of the National Academy of Sciences* **109**, 8032–8037.
- 9 Hill R, Cullen-Unsworth LC, Talbot LD, McIntyre S (2011) Empowering Indigenous peoples' biocultural diversity through world heritage cultural landscapes: a case study from the Australian tropical forests. *International Journal of Heritage Studies* **17**, 571–590.
- 10 Hill R, Pert PL, Davies J, Robinson CJ, Walsh F, Falco-Mammone F (2013) *Indigenous Land Management in Australia. Extent, Scope, Diversity, Barriers and Success Factors*. CSIRO Ecosystem Sciences, Cairns. <http://www.daff.gov.au/__data/assets/pdf_file/0010/2297116/ilm-report.pdf>.

Chapter 2

- 1 Veevers JJ (2006) Updated Gondwana (Permian–Cretaceous) earth history of Australia. *Gondwana Research* **9**, 231–260; Veevers J, Powell C, Roots S (1991) Review of seafloor spreading around Australia: synthesis of the patterns of spreading. *Australian Journal of Earth Sciences* **38**, 373–389.
- 2 Cox CB, Moore PD (1985) *Biogeography: An Ecological and Evolutionary Approach*. 4th edn. Blackwell Scientific Publications, London.
- 3 Battley P, McCaffery B, Rogers D, Hong J-S, Moores N *et al.* (2010) *Invisible Connection:*

-
- Why Migrating Shorebirds Need the Yellow Sea*. CSIRO Publishing, Melbourne.
- 4 Byrne M, Steane D, Joseph L, Yeates D, Jordan G *et al.* (2011) Decline of a biome: evolution, contraction, fragmentation, extinction and invasion of the Australian mesic zone biota. *Journal of Biogeography* **38**, 635–656; Metcalfe D, Ford A (2008) Floristics and plant biodiversity of the rainforests of the Wet Tropics. In *Living in a Dynamic Tropical Forest Landscape* (Eds N Stork, SM Turton) pp. 123–131. Blackwell Publishing, Melbourne.
- 5 Oliver PM, Sanders K (2009) Molecular evidence for multiple ancient lineages: ancient Gondwanan origins of a diverse Australian gecko radiation. *Journal of Biogeography* **36**, 2044–2055.
- 6 Phillips MJ, Gibb GC, Crimp EA, Penny D (2010) Tinamous and moa flock together: mitochondrial genome sequence analysis reveals independent losses of flight among ratites. *Systematic Biology* **59**, 90–107.
- 7 Last P, Gledhill D (2007) The maugean skate, *Zearaja maugeana* sp. nov. (Rajiformes: Rajidae) – a micro-endemic, Gondwanan relict from Tasmanian estuaries. *Zootaxa* **1494**, 45–65.
- 8 Crisp M, Burrows G, Cook L, Thornhill A, Bowman D (2010) Flammable biomes dominated by eucalypts originated at the Cretaceous–Palaeogene boundary. *Nature Communications* **2**, 193. doi:10.1038/ncomms1191
- 9 Byrne M, Yeates DK, Joseph L, Kearney M, Bowler J *et al.* (2008) Birth of a biome: insights into the assembly and maintenance of the Australian arid zone biota. *Molecular Ecology* **17**, 4398–4417.
- 10 Catullo R, Doughty P, Roberts JD, Keogh S (2011) Multi-locus phylogeny and taxonomic revision of *Uperoleia* toadlets (Anura: Myobatrachidae) from the western arid zone of Australia, with a description of a new species. *Zootaxa* **2902**, 1–43.
- 11 Potter S, Eldridge MB, Taggart D, Cooper S (2012) Multiple biogeographical barriers identified across the monsoon tropics of northern Australia: phylogeographic analysis of the *brachyotis* group of rock-wallabies. *Molecular Ecology* **21**, 2254–2269.
- 12 Butler A, Rees T, Beesley P, Bax N (2010) Marine biodiversity in the Australian region. *PLoS ONE* **5**, e11831. doi:10.1371/journal.pone.0011831
- 13 Strahan R, Van Dyck S (Eds) (2008) *Mammals of Australia*. New Holland Publishers, Sydney.
- 14 Zborowski P, Edwards E (2007) *A Guide to Australian Moths*. CSIRO Publishing, Melbourne.
- 15 Schodde R, Tiedemann S (Eds) (1986) *Reader's Digest Complete Book of Australian Birds*. Reader's Digest Services, Sydney.
- 16 Andersen A, Jacklyn P, Dawes-Gromadzki T, Morris I (2005) *Termites of Northern Australia*. Barker Souvenirs, Alice Springs.
- 17 Shattuck S (2000) *Australian Ants: Their Biology and Distribution*. CSIRO Publishing, Melbourne.
- 18 Kondo T, Crisp M, Linde C, Bowman D, Kawamura K *et al.* (2012) Not an ancient relict: the endemic *Livistona* palms of arid central Australia could have been introduced by humans. *Proceedings of the Royal Society B* **279**, 2652–2661. doi:10.1098/rspb.2012.0103

-
- 19 Last P, Stevens J (2009) *Sharks and Rays of Australia*. CSIRO Publishing, Melbourne.
- 20 Chilton NB, Huby-Chilton F, Beveridge I, Smales LR, Gasser RB, Andrews RH (2011) Phylogenetic relationships of species within the tribe Labiostrongylinea (Nematoda: Cloacinidae) from Australian marsupials based on ribosomal DNA spacer sequence data. *Parasitology International* **60**, 381–387; Flannery TF (1989) Phylogeny of the Macropodoidea: a study in convergence. In *Kangaroos, Wallabies and Rat-kangaroos* (Eds G Grigg, P Jarman, I Hume) pp. 1–46. Surrey Beatty and Sons, Sydney.
- 21 Johnson C (2006) *Australia's Mammal Extinctions: A 50,000-year History*. Cambridge University Press, Cambridge, UK.
- 22 Cooper W, Cooper WT (2004) *Fruits of the Australian Tropical Rainforest*. Nokomis Editions, Melbourne; Drew A, Spencer HJ (1998) Consumption of *Idiospermum australiense* seeds by the musky rat kangaroo, *Hypsiprymnodon moschatus* (Marsupialia: Potoroidae). *Memoirs of the Queensland Museum* **42**, 438.
- 23 Jones DL (2006) *Native Orchids of Australia*. Reed New Holland, Sydney.
- 24 Aplin K, Fitch A, King D (2006) A new species of *Varanus* Merrem (Squamata: Varanidae) from the Pilbara region of Western Australia, with observations on sexual dimorphism in closely related species. *Zootaxa* **1313**, 1–38; Couper P, Melville J, Emmott A, Chapple S (2012) A new species of *Diporiphora* from the Gineaway Tablelands of Western Queensland. *Zootaxa* **3556**, 39–54; Donnellan S, Anstis M, Price L, Wheaton L (2012) A new species of *Crinia* (Anura: Myobatrachidae) from the Flinders Ranges, South Australia. *Zootaxa* **3499**, 1–26; Donnellan S, Mahony M, Bertozzi T (2012) A new species of *Pseudophryne* (Anura: Myobatrachidae) from the central Australian ranges. *Zootaxa* **3476**, 69–85; Doughty P, Maryan B, Donnellan S, Hutchinson M (2007) A new species of taipan (Elapidae: *Oxyuranus*) from central Australia. *Zootaxa* **1422**, 45–58; Doughty P (2011) An emerging frog diversity hotspot in the northwest Kimberley of Western Australia: another new frog species from the high rainfall zone. *Records of the Western Australian Museum* **26**, 209–216; Hoskin C (2012) Two new frog species (Microhylidae: *Cophixalus*) from the Australian Wet Tropics region, and redescription of *Cophixalus ornatus*. *Zootaxa* **3271**, 1–16; Hoskin C, Aland K (2011) Two new frog species (Microhylidae: *Cophixalus*) from boulder habitats on Cape York Peninsula, north-east Australia. *Zootaxa* **3027**, 39–51; Kay G, Keogh S (2012) Molecular phylogeny and morphological revision of the *Ctenotus labillardieri* (Reptilia: Squamata: Scincidae) species group and a new species of immediate conservation concern in the southwestern Australian biodiversity hotspot. *Zootaxa* **3390**, 1–18; Mecke S, Doughty P, Donnellan S (2013) Redescription of *Eremiascincus fasciolatus* (Günther, 1867) (Reptilia: Squamata: Scincidae) with clarification of its synonyms and the description of a new species. *Zootaxa* **4701**, 473–517; Oliver P, Doughty P, Palmer R (2012) Hidden biodiversity in rare northern Australian vertebrates: the case of the clawless geckos

- (*Crenadactylus*, Diplodactylidae) of the Kimberley. *Wildlife Research* **39**, 429–435.
- 25 Humphreys WF (2008) Rising from down under: developments in subterranean biodiversity in Australia from a groundwater fauna perspective. *Invertebrate Systematics* **22**, 85–101.
 - 26 Last PR, Gledhill DC (2009) A revision of the Australian handfishes (Lophiiformes: Brachionichthyidae), with descriptions of three new genera and nine new species. *Zootaxa* **2252**, 1–77.
 - 27 Gillanders BM, Payne NL (2013) Giant Australian cuttlefish. In *Natural History of Spencer Gulf* (Eds S Madigan, SA Shepherd, S Murray-Jones, D Wiltshire). Royal Society of South Australia, Adelaide (in press).
 - 28 Nelson L, Scheffer SJ, Yeates DK (2012) Species diversity of *Fergusonina* Malloch gall flies (Diptera: Fergusoninidae) forming leaf bud galls on snow gum (*Eucalyptus pauciflora* Sieb. ex Spreng. complex), with a description of a new species from Tasmania. *Insect Systematics and Evolution* **43**, 147–160.
- ### Chapter 3
- 1 <<http://www.environment.gov.au/system/files/resources/17345e0a-40dc-4cae-97d3-e972c52c4ea7/files/vegfsheet-mvg5.pdf>>
 - 2 Australian Government Department of Environment and Water Resources (2007) *Australia's Native Vegetation: A Summary of Australia's Major Vegetation Groups*. Australian Government Department of Environment and Water Resources, Canberra. <<http://www.environment.gov.au/erin/nvis/publications/major-veg-summary.html>>.
 - 3 Australian Government Department of Sustainability, Environment, Water, Population and Communities (2011) *Australia State of the Environment Report 2011*. <<http://www.environment.gov.au/soe/2011/index.html>>.
 - 4 Chapman AD (2009) *Numbers of Living Species in Australia and the World*. Australian Government Department of the Environment, Water, Heritage and the Arts, Canberra.
 - 5 <<http://www.ala.org.au>>
 - 6 Australian Government Department of the Environment, Water, Heritage and the Arts, 2008. *Assessment of Australia's Terrestrial Biodiversity*. <<http://www.environment.gov.au/biodiversity/publications/terrestrial-assessment/index.html>>.
 - 7 Queensland Government Department of Environment and Heritage Protection (2011) *Endangered Plants*. Department of Environment and Heritage Protection, Brisbane. <<http://www.ehp.qld.gov.au/wildlife/threatened-species/endangered/endangered-plants/index.html>>; Bostock PD, Holland AE (Eds) (2007) *Census of the Queensland Flora 2007*. Queensland Herbarium, Environmental Protection Agency, Brisbane.
 - 8 New South Wales Government Department of Environment and Heritage (2012) *Threatened Species Conservation Act Schedules 1, 2 and 3*. NSW Scientific Committee, Department of Environment and Heritage, Sydney. <<http://www.environment.nsw.gov.au/resources/nature/TS20120504.pdf>>; New South Wales Government Department of Environment and Heritage (2012) NSW

-
- Weeds*. Department of Environment and Heritage, Sydney. <<http://www.environment.nsw.gov.au/pestsweeds/nswweeds.htm>>.
- 9 Victorian Government Department of Sustainability and Environment (2012) *Flora and Fauna Guarantee Act 1988, Threatened List*. Department of Sustainability and Environment, Melbourne. <<http://www.depi.vic.gov.au/environment-and-wildlife/threatened-species-and-communities/flora-and-fauna-guarantee-act-1988/ffg-listed-taxa-communities-and-potentially-threatening-processes>>. Page last updated July 2012 [cited 15 Aug 2012]; Spencer R (2006) *Garden Plants as Environmental and Agricultural Weeds*. Royal Botanic Gardens Board, Melbourne. <http://www.rbg.vic.gov.au/__data/assets/word_doc/0005/16466/WEEDS-DRAFT-LATEST.doc>.
- 10 South Australian Government Department of Environment, Water and Natural Resources (2011). *Threatened Plant Species*. Department of Environment, Water and Natural Resources, Adelaide. <http://www.environment.sa.gov.au/Plants_Animals/Threatened_species_and_ecological_communities/Threatened_species/Threatened_plant_species>; Biosecurity SA (2013) *Weeds and Pest Animals*. Government of South Australia, Adelaide. <http://www.pir.sa.gov.au/biosecuritysa/nrm_biosecurity/weeds>.
- 11 Northern Territory Government Department of Natural Resources, Environment, the Arts and Sport (2012) *Threatened Species List*. Department of Natural Resources, Environment, the Arts and Sport, Darwin. <<http://www.nretas.nt.gov.au/plants-and-animals/animals/home/specieslist>>; Short PS, Albrecht DE, Cowie ID, Lewis DL Stuckey B (Eds) (2011) *Checklist of the Vascular Plants of the Northern Territory*. Northern Territory Herbarium, Department of Natural Resources, Environment, the Arts and Sport, Darwin. <http://irm.nt.gov.au/data/assets/pdf_file/0010/11017/200701ntchecklist.pdf>.
- 12 Tasmanian Government Department of Primary Industries, Parks, Water and Environment (2012) *List of Threatened Species*. Department of Primary Industries, Parks, Water and Environment, Hobart. <<http://dpipwe.tas.gov.au/conservation/threatened-species/lists-of-threatened-species/full-list-of-threatened-species>>; RPDC, 2006. *State of the Environment Tasmania: Introduced Species*. Resource Planning and Development Commission, Hobart. <<http://soer.justice.tas.gov.au/2003/bio/4/issue/19/ata glance.php>>.
- 13 Marmion B (2012) Wildlife Conservation (Rare Flora) Notice 2012(2). *Government Gazette*, WA, 6 November, pp. 5305–5311; Hussey BMJ, Keighery GJ, Cousens RD, Dodd J, Lloyd SG (2007) *Western Weeds: a Guide to the Weeds of Western Australia*. Weed Society of Western Australia, Perth.
- 14 Lindenmayer D (2007) *On Borrowed Time: Australia's Environmental Crisis and What We Must Do About It*. Penguin Books Australia, Melbourne.
- 15 Birdlife Australia (2008) *State of Australia's Birds*. <<http://birdlife.org.au>>.
- 16 Bureau of Meteorology (2013) *Groundwater Dependent Ecosystems Atlas*. Bureau of Meteorology, Canberra. <<http://www.bom>>.

- gov.au/water/groundwater/gde/index.shtml>.
- 17 Great Barrier Reef Marine Park Authority (2009) *Great Barrier Reef Outlook Report 2009*. Great Barrier Reef Marine Park Authority, Townsville. <http://www.gbrmpa.gov.au/__data/assets/pdf_file/0018/3843/OutlookReport_Full.pdf>
 - 18 Collins S (2012) Marine microbiology: evolution on acid. *Nature Geosciences* **5**, 310–311; Lohbeck KT, Riebesell U, Reusch TBH (2012) Adaptive evolution of a key phytoplankton species to ocean acidification. *Nature Geosciences* **5**, 346–351.
 - 19 <<http://www.reef.crc.org.au/discover/plantsanimals/cots/>>
 - 20 Lindenmayer DB, Gibbons P, Bourke M, Burgman M, Dickman CR *et al.* (2012) Improving biodiversity monitoring. *Austral Ecology* **37**, 285–294.
 - 21 <<http://www.environment.gov.au/resource/australias-biodiversity-conservation-strategy-0>>
 - 22 Lindenmayer D, Burns E, Thurgate N, Lowe A (2013) *Monitoring Environmental Change*. CSIRO Publishing, Melbourne.
 - 23 <<http://www.tern.org.au>>
 - 24 Westcott DA, McKeown A, Fletcher CS, Murphy HT (2011) *A Monitoring Methodology for the Grey-headed Flying-fox*, *Pteropus poliocephalus*. Report to the Australian Government Department of Sustainability, Environment, Water, Population and Communities. <<http://www.environment.gov.au/biodiversity/threatened/species/flying-foxes-monitoring-program.html>>.
 - 25 Australian Government Department of Sustainability, Environment, Water, Population and Communities (2011) *National Plan for Environmental Information*. <<http://www.environment.gov.au/topics/science-and-research/national-plan-environmental-information>>.
 - 26 Scholes RJ, Walters M, Turak E, Saarenmaa H, Heip CHR *et al.* (2012) Building a global observing system for biodiversity. *Current Opinions in Environmental Sustainability* **4**, 139–146.
- ## Chapter 4
- 1 Martin TG, Nally S, Burbidge A, Arnall S, Garnett ST *et al.* (2012) Acting fast helps avoids extinction. *Conservation Letters* **5**, 274–280.
 - 2 Martin TG, Catterall CP, Manning AD, Szabo JK (2012) In *Birds and Habitat: Relationships in Changing Landscapes*. (Ed. RJ Fuller) pp. 453–480. Cambridge University Press, Cambridge.
 - 3 Saunders DA, Arnold GW, Burbidge AA, Hopkins AJM (Eds) (1987) *Nature Conservation: The Role of Remnants of Native Vegetation*. Surrey Beatty, Sydney.
 - 4 Thrall PH, Millsom DA, Jeavons AC, Waayers M, Harvey GR *et al.* (2005) Seed inoculation with effective root-nodule bacteria enhances revegetation success. *Journal of Applied Ecology* **42**, 740–751.
 - 5 Prober SM, Thiele K, Lunt I, Koen TB (2005) Restoring ecological function in temperate grassy woodlands – manipulating soil nutrients, annual exotics and native perennial grasses through carbon supplements and spring burns. *Journal of Applied Ecology* **42**, 1073–1085.

-
- 6 Lunt ID, Prober SM, Thiele KR (2010) In *Temperate Woodland Conservation and Management*. (Eds D Lindenmayer, A Bennett, RJ Hobbs) pp. 167–173. CSIRO Publishing, Melbourne.
- 7 Short J (2009) *The Characteristics and Success of Vertebrate Translocations within Australia: A Progress Report*. Australian Government Department of Agriculture, Fisheries and Forestry, Canberra.
- 8 Schwartz M, Martin TG (2013) Translocation of imperiled species under changing climates. *Annals of the New York Academy of Sciences* **1286**, 15–28.
- 9 McDonald-Madden E, Runge MC, Possingham HP, Martin TG (2011) Optimal timing for managed relocation of species faced with climate change. *Nature Climate Change* **1**, 261–265.
- 10 Harris S, Arnall S, Byrne M, Coates D, Hayward MW *et al.* (2013) Whose backyard? Some precautions in choosing recipient sites for assisted colonisation of Australian plants and animals. *Ecological Management & Restoration* **14**, 106–111.
- 11 Aguilar R, Quesada M, Ashworth L, Herreras-Diego Y, Lobo J (2008) Genetic consequences of habitat fragmentation in plant populations: susceptible signals in plant traits and methodological approaches. *Molecular Ecology* **17**, 5177–5188.
- 12 Australian Biosecurity Group (2005) *Invasive Weeds, Pests and Diseases: Solutions to Secure Australia*. CRC for Pest Animal Control, CRC for Australian Weed Management and WWF Australia, Canberra.
- 13 Martin TG (2010) In *Temperate Woodland Conservation and Management*. (Eds D Lindenmayer, AF Bennett, RJ Hobbs) pp. 249–258. CSIRO Publishing, Melbourne.
- 14 Bradstock RA, Gill AM, Williams RJ (2012) *Flammable Australia: Fire Regimes, Biodiversity and Ecosystems in a Changing World*. CSIRO Publishing, Melbourne.
- 15 Mantyka-pringle CS, Martin TG, Rhodes JR (2012) Interactions between climate and habitat loss effects on biodiversity: a systematic review and meta-analysis. *Global Change Biology* **18**, 1239–1252.
- 16 Stafford Smith M, Horrocks L, Harvey A, Hamilton C (2010) Rethinking adaptation for a 4°C world. *Philosophical Transactions of the Royal Society A* **369**, 196–216. doi:10.1098/rsta.2010.0277.
- 17 Steffen W, Burbidge AA, Hughes L, Kitching R, Lindenmayer D *et al.* (2009) *Australia's Biodiversity and Climate Change*. Australian Government Department of Climate Change, Canberra.
- 18 Williams RJ, Bradstock RA, Cary GJ, Enright NJ, Gill AM *et al.* (2010) *Interactions between Climate Change, Fire Regimes and Biodiversity in Australia: A Preliminary Assessment*. Australian Government, Canberra.
- 19 Gregory R, Long G, Colligan M, Geiger JG, Laser M (2012) When experts disagree (and better science won't help much): using structured deliberations to support endangered species recovery planning. *Journal of Environmental Management* **105**, 30–43.
- 20 Hobbs RJ, Harris JA (2001) Restoration ecology: repairing the earth's ecosystems

-
- in the new millennium. *Restoration Ecology* **9**, 239–246.
- 21 Broadhurst LM, Lowe A, Coates DJ, Cunningham SA, McDonald M *et al.* (2008) Seed supply for broadscale restoration: maximizing evolutionary potential. *Evolutionary Applications* **1**, 587–597.
- 22 Hobbs RJ, Higgs ES, Hall C (2013) *Novel Ecosystems: Intervening in the New Ecological World Order*. Wiley-Blackwell, Oxford.
- 23 Miller JR, Hobbs RJ (2007) Habitat restoration – do we know what we’re doing? *Restoration Ecology* **15**, 382–390.
- 24 Carwardine J, O’Connor T, Legge S, Mackey B, Possingham HP, Martin TG (2012) Prioritizing threat management for biodiversity conservation. *Conservation Letters* **5**, 196–204.
- 25 Gregory R, Failing L, Harstone M, Long G, McDaniels T, Ohlson D (2012) *Structured Decision Making: A Practical Guide to Environmental Management Choices*. Blackwell Publishing, Oxford.
- 26 Ferrier S, Drielsma M (2010) Synthesis of pattern and process in biodiversity conservation assessment: a flexible whole-landscape modelling framework. *Diversity and Distributions* **16**, 386–402.
- 27 Mokany K, Harwood TD, Williams KJ, Ferrier S (2012) Dynamic macroecology and the future for biodiversity. *Global Change Biology* **18**, 3149–3159.
- 28 Levin H, McEwan PJ (2001) *Cost-effectiveness Analysis: Methods and Applications*. 2nd edn. Sage Publications, London.
- 29 Briggs SV (2009) Priorities and paradigms: directions in threatened species recovery. *Conservation Letters* **2**, 101–108.
- 30 Joseph JN, Maloney RF, Possingham HP (2009) Optimal allocation of resources among threatened species: a project prioritization protocol. *Conservation Biology* **23**, 328–338.
- 31 Pannell DJ, Roberts AM, Park G, Alexander J, Curatolo A, Marsh SP (2012) Integrated assessment of public investment in land-use change to protect environmental assets in Australia. *Land Use Policy* **29**, 377–387.
- 32 Chadès I, McDonald-Madden E, McCarthy M, Wintle B, Linkie M, Possingham HP (2008) When to stop managing or surveying cryptic threatened species. *Proceedings of the National Academy of Sciences* **105**, 13936–13940.
- 33 Chadès I, Martin TG, Nicol S, Burgman M, Possingham HP, Buckley Y (2011) General rules for managing and surveying networks of pests, diseases and endangered species. *Proceedings of the National Academy of Sciences* **108**, 8323–8328.
- 34 Webber BL, Scott JK (2012) Rapid global change: implications for defining natives and aliens. *Global Ecology and Biogeography* **21**, 305–311.
- 35 Bottrill MC, Joseph LN, Carwardine J, Bode M, Cook C *et al.* (2008) Is conservation triage just smart decision making? *Trends in Ecology & Evolution* **23**, 649–654.
- ## Chapter 5
- 1 Convention on Biological Diversity (2011) *Strategic Plan for Biodiversity 2011–2020 and the Aichi Targets ‘Living in Harmony with Nature’*. <<http://www.cbd.int/sp/>>.

-
- 2 Natural Resource Management Ministerial Council (2010) *Australia's Biodiversity Conservation Strategy 2010–2030*. Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra. <<http://www.environment.gov.au/resource/australias-biodiversity-conservation-strategy-0>>.
- 3 Australian Government Department of Sustainability, Environment, Water Population and Communities (2012) *History of the National Reserve System*. <<http://www.environment.gov.au/parks/nrs/about/history.html>>.
- 4 Commonwealth of Australia and each of its States and Territories (2010) *Australia's Strategy for the National Reserve System 2009–2030*. <<http://www.environment.gov.au/node/21198>>.
- 5 Australian Government Department of Sustainability, Environment, Water, Population and Communities (2010) *Collaborative Australian Protected Area Database (CAPAD)*. Department of Sustainability, Environment, Water, Population and Communities, Canberra. <<http://www.environment.gov.au/topics/land/nrs/science-maps-and-data/capad>>.
- 6 Australian Government Department of Sustainability, Environment, Water Population and Communities (2012) *Commonwealth Marine Reserves Web Page*. <<http://www.environment.gov.au/marinereserves/index.html>>.
- 7 Commonwealth of Australia (1997) *Nationally Agreed Criteria for the Establishment of Comprehensive, Adequate and Representative Reserve System for Forests in Australia*. A Report by the Joint ANZECC/MCFFA National Forestry Policy Statement Implementation Subcommittee. <<http://www.daff.gov.au/rfa/publications/reserve-system>>.
- 8 <<http://www.environment.gov.au/parks/iucn.html>>
- 9 Hill R, Pert PL, Davies J, Walsh F, Robinson CJ, Falco-Mammone F (2013) *Indigenous Land Management in Australia: Extent, Scope Diversity, Barriers and Success Factors*. CSIRO Ecosystem Sciences, Cairns.
- 10 State of the Environment Committee (2011) *Australia State of the Environment 2011*. Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra. <<http://www.environment.gov.au/soe/2011/summary/index.html>>.
- 11 Taylor MFJ, Sattler PS, Evans M, Fuller RA, Watson JEM, Possingham HP (2011) What works for threatened species recovery? An empirical evaluation for Australia. *Biodiversity and Conservation* **20**, 767–777.
- 12 Cochrane P, personal communication. Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra.
- 13 Taylor MFJ, Sattler PS, Fitzsimons J, Curnow C, Beaver D *et al.* (2011) *Building Nature's Safety Net: the State of Protected Areas for Australia's Ecosystems and Wildlife*. WWF-Australia, Sydney. <<http://www.wwf.org.au/?2750/Building-Natures-Safety-Net-2011-The-State-of-Protected-Areas-for-Australias-Ecosystems-and-Wildlife#>>.
- 14 Barr LM, Possingham HP (2013) Are outcomes matching policy commitments

- in Australian marine conservation planning? *Marine Policy* **42**, 39–48.
- 15 Williams KJ, Ferrier S, Rosauer D, Yeates D, Manion G *et al.* (2010) *Harnessing Continent-wide Biodiversity Datasets for Prioritising National Conservation Investment*. CSIRO Ecosystem Sciences, Canberra.
 - 16 <<http://www.ala.org.au>>
 - 17 Reside AE, VanDerWal J, Phillips B, Shoo LP, Rosauer DF *et al.* (2013) *Climate Change Refugia for Terrestrial Biodiversity: Defining Areas that Promote Species Persistence and Ecosystem Resilience in the Face of Global Climate Change*. National Climate Change Adaptation Research Facility, Gold Coast.
 - 18 Possingham HP, Wilson KA, Andelman SJ, Vynne CH (2006) In *Principles of Conservation Biology* (Eds MJ Groom, GK Meffe, CR Carroll) pp. 509–533. Sinauer Associates, Sunderland, MA.
 - 19 Dunlop M, Hilbert DW, Stafford Smith M, Davies R, James CD *et al.* (2012) *Implications for Policymakers: Climate Change, Biodiversity Conservation and the National Reserve System*. CSIRO Climate Adaptation Flagship, Canberra. <<http://www.csiro.au/Organisation-Structure/Flagships/Climate-Adaptation-Flagship/adapt-national-reserve-system.aspx>>.
 - 20 Williams P, Faith F, Manne L, Sechrest W, Preston C (2006) Complementarity analysis: mapping the performance of surrogates for biodiversity. *Biological Conservation* **128**, 253–264.
 - 21 Fernandes L, Day JON, Lewis A, Slegers S, Kerrigan B *et al.* (2005) Establishing representative no-take areas in the Great Barrier Reef: large-scale implementation of theory on marine protected areas. *Conservation Biology* **19**, 1733–1744.
 - 22 Australian Government (2012) *Caring for our Country, Clean Energy Future: Biodiversity Fund Fact Sheet*.
 - 23 Hodgson JA, Thomas CD, Wintle BA, Moilanen A (2009) Climate change, connectivity and conservation decision making: back to basics. *Journal of Applied Ecology* **46**, 964–969.
- ## Chapter 6
- 1 Trudgen MS, Webber B, Scott JK (2012) Human-mediated introduction of *Livistona* palms into central Australia: conservation and management implications. *Proceedings of the Royal Society B* **279**, 4115–4117; Morton SR, Stafford Smith DM, Dickman CR, Dunkerley DL, Friedel MH *et al.* (2011) A fresh framework for the ecology of arid Australia. *Journal of Arid Environments* **75**, 313–329; Box JA, Duguid A, Read RE, Kimber RG, Knapton A *et al.* (2008) Central Australian waterbodies: the importance of permanence. *Journal of Arid Environments* **72**, 1395–1413; Gott B (2005) Aboriginal fire management in south-eastern Australia: aims and frequency. *Journal of Biogeography* **327**, 1203–1208.
 - 2 State of the Environment Committee (2011) *Australia State of the Environment 2011: Independent Report to the Australian Government Minister for Sustainability, Environment, Water, Population and Communities*. Australian Government Department of Sustainability,

-
- Environment, Water, Population and Communities, Canberra.
- 3 Hill R, Pert PL, Davies J, Robinson CJ, Walsh F, Falco-Mammone F (2013) *Indigenous Land Management in Australia: Extent, Scope, Diversity, Barriers and Success Factors*. Australian Landcare Council Secretariat, CSIRO Ecosystem Sciences, Cairns. <http://www.daff.gov.au/__data/assets/pdf_file/0010/2297116/ilm-report.pdf>.
- 4 CSIRO (2005) *Aboriginal Wetland Burning in Kakadu*. Video, CSIRO Sustainable Ecosystems, Darwin. <<http://www.csiro.au/en/Outcomes/Environment/Bushfires/KakaduWetlandBurning.aspx>>.
- 5 Horton D (1996) Aboriginal Australia map. Australian Institute of Aboriginal and Torres Strait Islander Studies, Canberra.
- 6 Bradley J, Holmes M, Norman Marrngawi D, Isaac Karrakayn A, Miller Wuwarlu J, Ninganga I (2006) *Yumbulyumbulmantha Ki-Awarawu: All Kinds of Things from Country: Yanyuwa Ethnobiological Classification*. Aboriginal and Torres Strait Islander Studies Unit, University of Queensland, Brisbane.
- 7 Walsh F, Dobson VP, Douglas J (2013) Anpernirrentye: a framework for enhanced application of indigenous ecological knowledge in natural resource management. *Ecology and Society* **18**, 18. <<http://dx.doi.org/10.5751/ES-05501-180318>>; *Anpernirrentye: Relationships between Bush Foods, Creation Laws, People, Country and all Things, Illustrated by Three Plants*. DVD, Desert Knowledge CRC and CSIRO, Alice Springs. <http://desertknowledgecrcmedia.com.au/media/anpernirrentye_12_min.html>.
- 8 Latz P (1995) *Bushfires and Bushtucker: Aboriginal Plant Use in Central Australia*. IAD Press, Alice Springs; Clarke P (2007) *Aboriginal People and their Plants*. Rosenberg Publishing, Melbourne.
- 9 Gray M, Altman JC, Halasz N (2005) 'The Economic Value of Wild Resources to the Indigenous Community of the Wallis Lake Catchment'. CAEPR Discussion Paper 272/2005. Centre for Aboriginal Economic Policy Research, Australian National University, Canberra; Scelza B, Bird DW, Bliege Bird R (2014) Bush tucker, shop tucker: production, consumption, and diet at an Aboriginal outstation. *Journal of Ecology of Food and Nutrition* **53**, 98–117.
- 10 Jackson S, Finn M, Featherston P (2012) Aquatic resource use by Indigenous Australians in two tropical river catchments: the Fitzroy River and Daly River. *Human Ecology* **40**, 893–908.
- 11 Dobson VP (2007) *Arlhe-kenhe Merrethene: Arrernte Traditional Healing*. IAD Press, Alice Springs; Walsh F, Richards D, as told by Hayes-Dobson VP (2013) *Iwepe Irrkenhe Bandage-ke Mpwareme: the Caterpillar Bag is Made into a Bandage*. Video, CSIRO Ecosystem Sciences, Alice Springs.
- 12 Prober SM, O'Connor MH, Walsh FJ (2011) Australian Aboriginal peoples' seasonal knowledge: a potential basis for shared understanding in environmental management. *Ecology and Society* **16**, 12, <<http://www.ecologyandsociety.org/vol16/iss2/art12/>>; Woodward E, Jackson S, Finn M, McTaggard PM (2012) Utilising Indigenous seasonal knowledge to understand aquatic resource use and

- inform water resource management in northern Australia. *Ecological Management & Restoration* **13**, 58–64. Woodward E, Lindsay B, Kuwarda H, Miljat F, Pirak R, Waliwararra K (2010) *MalakMalak and Matngala Plant Knowledge, Daly River, Northern Territory, Australia*. CSIRO Sustainable Ecosystems, Darwin. <<http://www.csiro.au/resources/MalakMalak-Plant-Knowledge-Seasons-Calendar>>.
- 13 Yellow-spotted goanna, *Varanus panoptes*.
- 14 Paltridge R, Latz P, Pickburn A, Ward M, Ward J, Davey M (2011) Working with Anangu to conserve rare plants in the Anangu Pitjantjatjara Yankunytjatjara lands of South Australia. *Australasian Plant Conservation* **19**, 10–11.
- 15 Batty D (2012) *Unwelcome Strangers: Weeds on Aboriginal Country*. Video, CSIRO, Alice Springs. <<http://www.csiro.au/unwelcomestrangers>>; Vaarzon-Morel P (2010) Changes in Aboriginal perceptions of feral camels and of their impacts and management. *Rangeland Journal* **32**, 73–85.
- 16 Robinson CJ, Smyth D, Whitehead PJ (2005) Bush tucker, bush pets and bush threats: cooperative management of feral animals in Australia's Kakadu National Park. *Conservation Biology* **19**, 1385–1391.
- 17 Walsh F, Douglas J (2011) No bush foods without people: the essential human dimension to the sustained trade in native plant products from desert Australia. *Rangeland Journal* **33**, 395–416; Gorman J, Whitehead P, Griffiths AD, Petheram L (2008) Production from marginal lands: Indigenous commercial use of wild animals in northern Australia. *International Journal of Sustainable Development and World Ecology* **15**, 240–250.
- 18 Stephens A (2011) Glow On: Art that Aims to Illuminate. Entertainment section, *Sydney Morning Herald*, 28 September. <<http://www.smh.com.au/entertainment/art-and-design/glow-on-art-that-aims-to-illuminate-20110927-1kvco.html>>.
- 19 French A, Long L (2010) *Karlamilyi*. 3 m × 5 m, acrylic on canvas. Martumili Artists, Shire of East Pilbara, Newman.
- 20 McGregor S, Lawson V, Christophersen P, Kennett R, Boyden J *et al.* (2010) Indigenous wetland burning: conserving natural and cultural resources in Australia's World Heritage-listed Kakadu National Park. *Human Ecology* **38**, 721–729; Yibarbuk D, Whitehead P, Russell-Smith J, Jackson D, Godjuwa C *et al.* (2001) Fire ecology and Aboriginal land management in central Arnhem Land, northern Australia: a tradition of ecosystem management. *Journal of Biogeography* **28**, 325–343; Bliege Bird R, Bird DW, Coddling BF, Parker CH, Jones JH (2008) The 'fire stick farming' hypothesis: Australian Aboriginal foraging strategies, biodiversity, and anthropogenic fire mosaics. *Proceedings of the National Academy of Sciences of the United States* **105**, 14796–14801; Hill R, Baird A, Buchanan D, Denman C, Fischer P *et al.* (2004) *Yalanji-Warranga Kaban: Yalanji People of the Rainforest Fire Management Book*. Little Ramsay Press, Cairns.
- 21 Russell-Smith J, James G, Vigilante T, Lipsett-Moore G, Morrison J, Looker M (2012) Insights into the biodiversity and social benchmarking components of the

northern Australian fire management and carbon abatement programmes. *Ecological Management and Restoration* **13**, 51–57.

- 22 Moorcroft H, Ignjic E, Cowell S, Goonack J, Mangolomara S *et al.* (2012) Conservation planning in a cross-cultural context: the Wunambal Gaambera Healthy Country Project in the Kimberley, Western Australia. *Ecological Management and Restoration* **13**, 16–25.

Chapter 7

- 1 Gott B (2012) Indigenous burning and the evolution of ecosystem biodiversity. *Proceedings of the Royal Society of Victoria* **124**, 56–60.
- 2 Hopper SD (2009) OCBIL theory: towards an integrated understanding of the evolution, ecology and conservation of biodiversity on old, climatically buffered, infertile landscapes. *Plant and Soil* **322**, 49–86.
- 3 Hermy M, Honnay O, Firbank L, Grashof-Bokdam C, Lawesson JE (1999) An ecological comparison between ancient and other forest plant species of Europe, and the implications for forest conservation. *Biological Conservation* **91**, 9–22.
- 4 Rackham A (1995) *The History of the Countryside*. Weidenfield & Nicolson, London.
- 5 Smith JMB (Ed.) (1982) *A History of Australasian Vegetation*. McGraw-Hill, Sydney.
- 6 Wilson B (Ed.) (1968) *Pasture Improvement in Australia*. Murray, Sydney.
- 7 Gammage B (2011) *The Biggest Estate on Earth: How Aborigines Made Australia*. Allen & Unwin, Sydney.
- 8 McIntyre S, Heard KM, Martin TG (2003) The relative importance of cattle grazing in sub-tropical grasslands – does it reduce or enhance plant biodiversity? *Journal of Applied Ecology* **40**, 445–457.
- 9 McIntyre S, Tongway D (2005) Grassland structure in native pastures: links to soil surface condition. *Ecological Management and Restoration* **6**, 43–50.
- 10 McIntyre S (2005) Biodiversity attributes of different sward structures in grazed grassland. *Ecological Management and Restoration* **6**, 71–73.
- 11 Penman TD, Binns DL, Shiels RJ, Allen RM, Kavanagh RP (2008) Changes in understorey plant species richness following logging and prescribed burning in shrubby dry sclerophyll forests of south-eastern Australia. *Austral Ecology* **33**, 197–210.
- 12 Lindenmayer DB, Franklin JF, Fischer J (2006) General management principles and a checklist of strategies to guide forest biodiversity conservation. *Biological Conservation* **131**, 433–445.
- 13 Low T (2002) *The New Nature: Winners and Losers in Wild Australia*. Penguin, Melbourne.
- 14 National Land and Water Resources Audit (2001) *Australian Agriculture Assessment*. National Land and Water Resources Audit, Canberra, ACT.
- 15 Johnston WH, Garden DL, Rančić A, Koen TB, Dassanayake KB *et al.* (2003) The impact of pasture development and grazing on water-yielding catchments in the Murray-Darling Basin in south-eastern Australia.

-
- Australian Journal of Experimental Agriculture* **43**, 817–841.
- 16 Manning AD, Fischer J, Lindenmayer DB (2006) Scattered trees are keystone structures – implications for conservation. *Biological Conservation* **132**, 311–321.
- 17 Lindenmayer DB, Hobbs RJ (2004) Fauna conservation in Australian plantation forests – a review. *Biological Conservation* **119**, 151–168.
- 18 Catterall CP, Piper SD, Bunn SE, Arthur JM (2001) Flora and fauna assemblages vary with local topography in a subtropical eucalypt forest. *Austral Ecology* **26**, 56–69.
- 19 McIntyre S, McIvor JG, Heard KM (Eds) (2002) *Managing and Conserving Grassy Woodlands*. CSIRO Publishing, Melbourne.
- 20 Lindenmayer DB, McIntyre S, Fischer J (2003) The landscape continuum of habitat modification and species response: a case study on birds in south-eastern Australia. *Biological Conservation* **110**, 45–53.
- 21 Chapman SK, Langley JA, Hart SC, Koch GW (2006) Plants actively control nitrogen cycling: uncorking the microbial bottleneck. *New Phytologist* **169**, 27–34.
- 22 Palm C, Sanchez P, Ahamed S, Awiti A (2007) Soils: a contemporary perspective. *Annual Review of Environment and Resources* **32**, 99–129.
- 23 House APN, MacLeod ND, Cullen B, Whitbread AM, Brown SD, McIvor JG (2008) Integrating production and natural resource management on mixed farms in eastern Australia: the cost of conservation in agricultural landscapes. *Agricultural Ecosystems and Environment* **127**, 153–165.
- 24 Hodgson JA, Moilanen A, Wintle BA, Thomas CD (2011) Habitat area, quality and connectivity: striking the balance for efficient conservation. *Journal of Applied Ecology* **48**, 148–152.
- 25 Doerr VAJ, Barrett T, Doerr ED (2011) Connectivity, dispersal behaviour and conservation under climate change: a response to Hodgson et al. *Journal of Applied Ecology* **48**, 143–147.
- 26 Pearson SM, Turner MG, Gardner RH, O'Neill RV (1996) An organism-based perspective of habitat fragmentation. In *Biodiversity in Managed Landscapes: Theory and Practice*. (Eds RC Szaro and DW Johnston) pp. 77–95. Oxford University Press, New York.
- 27 Smith FP, Prober SM, House APN, McIntyre S (2013) Maximizing retention of native biodiversity in Australian agricultural landscapes – the 10:20:40:30 guidelines. *Agriculture, Ecosystems and Environment*, **166**, 35–45.
- 28 Industry Commission (1998) *A Full Repairing Lease: Inquiry into Ecologically Sustainable Land Management*. Australian Government Publishing Service, Canberra.
- 29 MacLeod ND, McIvor JG (2006) Reconciling economic and ecological conflicts for sustained management of grazing lands. *Ecological Economics* **56**, 386–401.
- 30 Whitten S, Carter M, Stoneham G (Eds) (2004) *Market-based Tools for Environmental Management*. Publication 04/142. Rural Industries Research and Development Corporation, Canberra.
- ## Chapter 8
- 1 Pacione M (2009) *Urban Geography – A Global*

-
- Perspective*. Routledge, New York.
- 2 Australian Bureau of Statistics (2012) <<http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4102.0Main+Features30April+2013>>.
- 3 Miller JR (2005) Biodiversity conservation and the extinction of experience. *Trends in Ecology and Evolution* **20**, 430–434.
- 4 Luck GW, Ricketts TH, Daily GC, Imhoff M (2004) Alleviating spatial conflict between people and biodiversity. *Proceedings of the National Academy of Sciences* **101**, 182–186.
- 5 Secretariat of the Convention on Biological Diversity (2012) *Cities and Biodiversity Outlook*. Secretariat of the Convention on Biological Diversity, Montreal. <<http://www.cbd.int/en/subnational/partners-and-initiatives/cbo>>.
- 6 McDonald RI, Kareiva P, Forman RTT (2008) The implications of current and future urbanization for global protected areas and biodiversity conservation. *Biological Conservation* **141**, 1695–1703.
- 7 Groves RH, Boden R, Lonsdale WM (2005) *Jumping the Garden Fence: Invasive Garden Plants in Australia and their Environmental and Agricultural Impacts*. WWF-Australia, Sydney. <http://www.wwf.org.au/news_resources/resource_library/?1928/Jumping-the-Garden-Fence-Invasive-garden-plants-in-Australia-and-their-environmental-and-agricultural-impacts>.
- 8 Williams MSG, McDonnell MJ, Seager UJ (2005) Factors influencing the loss of an endangered ecosystem in an urbanizing landscape: a case study of native grasslands from Melbourne, Australia. *Landscape and Urban Planning* **71**, 35–49.
- 9 Jokimäki J, Suhonen J (1993) Effects of urbanization on the breeding bird species richness in Finland: a biogeographical comparison. *Ornis Fennica* **70**, 71–77.
- 10 Hernandez JL, Frankie GW, Thorp RW (2009) Ecology of urban bees: a review of current knowledge and directions for future study. *Cities and the Environment*. <<http://digitalcommons.lmu.edu/cate/vol2/iss1/3/>>.
- 11 Parsons H, French K, Major RE (2003) The influence of remnant bushland on the composition of suburban bird assemblages in Australia. *Landscape and Urban Planning* **66**, 43–56.
- 12 Maklakov AA, Immler S, Gonzalez-Voyer, Ronn J, Kolm N (2011) Brains and the city: big brained passerine birds succeed in urban environments. *Biology Letters* **7**, 730–732.
- 13 Tratalos J, Fuller RA, Warren PH, Davies RG, Gaston KJ (2007) Urban form, biodiversity potential and ecosystem services. *Landscape and Urban Planning* **83**, 308–317.
- 14 Fuller RA, Irvine KN, Devine-Wright P, Warren PH, Gaston KJ (2007) Psychological benefits of green space increase with biodiversity. *Biology Letters* **3**, 390–394.
- 15 Fuller RA, Gaston KJ (2009) The scaling of green space coverage in European cities. *Biology Letters* **5**, 352–355.
- 16 Shanahan DF, Miller C, Possingham HP, Fuller RA (2011) The influence of patch area and connectivity on avian communities in urban revegetation. *Biological Conservation* **144**, 722–729.

-
- 17 Adams R (2009) Transforming Australian cities for a more financially viable and sustainable future: transportation and urban design. *Australian Economic Review* **42**, 209–216.
- 18 Kenworthy JR (2006) The eco-city: 10 key transport and planning dimensions for sustainable city development. *Environment and Urbanisation* **18**, 67–85.
- 19 Sushinsky JR, Rhodes JR, Possingham HP, Gill TK, Fuller RA (2013) How should we grow cities to minimize their biodiversity impacts? *Global Change Biology* **19**, 401–410.
- 20 Lin BB, Fuller RA (2013) Sharing or sparing? How should we grow the world's cities? *Journal of Applied Ecology* **50**, 1161–1168.
- 21 McDonnell M, Holland K (2008) Biodiversity. In *Transitions: Pathways Towards Sustainable Urban Development in Australia*. (Ed. PW Newton) pp. 253–266. CSIRO Publishing, Melbourne.
- 22 Young A (2000) *Environmental Change in Australia Since 1788*. Oxford University Press, Melbourne.
- 23 Almusaed A (2010) *Biophilic and Bioclimatic Architecture*. Springer Verlag, Berlin.
- 24 Snep RPH, Opdam PFM (2010) Integrating nature values in urban planning and design. In *Urban Ecology*. (Ed. KJ Gaston) pp. 261–286. Cambridge University Press, Cambridge.
- 25 Global Footprint Network (2013) <<http://www.footprintnetwork.org/en/index.php/GFN/>>.
- 26 Environment Protection Authority Victoria (2013) <<http://www.epa.vic.gov.au/ecologicalfootprint/default.asp>>.
- 27 Demographia (2013) *Demographia World Urban Areas*. Demographia, Belleville, IL. <<http://demographia.com/db-worldua.pdf>>.
- 28 Australian Conservation Foundation (2013) *Consumption Atlas*. Australian Conservation Foundation, Melbourne. <<http://www.acfonline.org.au/sites/default/files/resource/index67.swf>>.
- 29 Gregory A, Hall M (2011) Urban water sustainability. In *Water: Science and Solutions for Australia*. (Ed. IP Prosser) pp. 75–88. CSIRO Publishing, Melbourne.
- 30 Burn S (2011) Future urban water supplies. In *Water: Science and Solutions for Australia*. (Ed. IP Prosser) pp. 89–104. CSIRO Publishing, Melbourne.
- 31 Australian Conservation Foundation (2010) *Sustainable Cities Index: Ranking Australia's 20 Largest Cities in 2010*. Australian Conservation Foundation, Melbourne. <http://www.acfonline.org.au/sites/default/files/resources/2010_ACF_SCI_Report_Comparative-Table_and_Fact-Sheets.pdf>.
- 32 Bekessy SA, Gordon A (2007) Nurturing nature in the city. In *Steering Sustainability in an Urbanising World: Policy, Practice and Performance*. (Ed. A Nelson) pp. 227–238. Ashgate, Hampshire.
- 33 State of the Environment Committee (2011) Built environment. In *Australia State of the Environment 2011: Independent Report to the Australian Government Minister for Sustainability, Environment, Water,*

Population and Communities. Chapter 10. Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra. <<http://www.environment.gov.au/topics/science-and-research/state-environment-reporting/soe-2011/soe-2011-report/10-built>>.

Chapter 9

- 1 Butler AJ, Rees A, Beesley P, Bax NJ (2010) Marine biodiversity in the Australian region. *PLoS One* **5**, e11831.
- 2 <<http://www.oceantracks.csiro.au/>>
- 3 <<http://www.bom.gov.au/oceanography/forecasts/>> and <<http://www.csiro.au/Outcomes/Oceans/Oceans-and-climate/BLUElink.aspx>>
- 4 <<http://imos.org.au/>>
- 5 <<http://imos.aodn.org.au/webportal/>>
- 6 Connell SD, Gillanders BM (Eds) (2007) *Marine Ecology*. Oxford University Press, Melbourne.
- 7 Andrew N (Ed.) (2000) *Under Southern Seas. The Ecology of Australia's Rocky Reefs*. UNSW Press, Sydney, and Kreiger Publishing Company, Malabar, FL.
- 8 Johnson CR, Banks SC, Barrett NS, Cazassus F, Dunstan PK *et al.* (2011) Climate change cascades: shifts in oceanography, species' ranges and subtidal marine community dynamics in eastern Tasmania. *Journal of Experimental Marine Biology and Ecology* **400**, 17–32.
- 9 Last PR, White WT, Gledhill DC, Hobday AJ, Brown R *et al.* (2011) Long-term shifts in abundance and distribution of a temperate fish fauna: a response to climate change and fishing practices. *Global Ecology and Biogeography* **20**, 58–72.
- 10 Poloczanska ES, Hobday AJ, Richardson AJ (2012) *Marine Climate Change in Australia, Impacts and Adaptation Responses: 2012 Report Card*. <<http://www.oceanclimatechange.org.au>>.
- 11 Kenchington R, Stocker L, Wood D (2012) *Sustainable Coastal Management and Climate Adaptation: Global Lessons from Regional Approaches in Australia*. CSIRO Publishing, Melbourne.
- 12 Smith ADM, Fulton EJ, Hobday AJ, Smith DC, Shoulder P (2007) Scientific tools to support the practical implementation of ecosystem-based fisheries management. *Ices Journal of Marine Science* **64**, 633–639.
- 13 Pomeroy RS, Katon BM, Harkes I (2001) Conditions affecting the success of fisheries co-management: lessons from Asia. *Marine Policy* **25**, 197–208.
- 14 Pikitch EK, Santora C, Babcock EA, Bakun A, Bonfil R *et al.* (2004) Ecosystem-based fishery management. *Science* **305**, 346–347; Kidd S, Plater A, Frid C (Eds) (2011) *The Ecosystem Approach to Marine Planning and Management*. Earthscan, London.
- 15 <<http://www.csiro.au/Portals/Media/Perfect-food-for-perfect-prawns.aspx>>
- 16 Wild-Allen K, Herzfeld M, Thompson PA, Rosebrock U, Parslow J, Volkman JK (2010) Applied coastal biogeochemical modelling to quantify the environmental impact of fish farm nutrients and inform managers. *Journal of Marine Systems* **81**, 134–147.

-
- 17 <<http://www.ccsbt.org>>
- 18 Polacheck T (2012) Assessment of IUU fishing for southern bluefin tuna. *Marine Policy* **36**, 1150–1165; Derkley K (2012) On track to rebuild SBT stocks. *Fisheries Research and Development Corporation News* **20**, 16–20; Commission for the Conservation of Southern Bluefin Tuna (2011) *16th Report of the CCSBT Extended Scientific Committee*. Bali, Indonesia. <http://www.ccsbt.org/userfiles/file/docs_english/meetings/meeting_reports/ccsbt_18/report_of_SC16.pdf>.
- 19 Pielke RA Jr (2007) *The Honest Broker: Making Sense of Science in Policy and Politics*. Cambridge University Press, New York.
- ## Chapter 10
- 1 Prosser IP (Ed.) (2011) *Water: Science and Solutions for Australia*. CSIRO Publishing, Melbourne.
- 2 <<http://earthobservatory.nasa.gov/IOTD/view.php?id=3309>>
- 3 McGinness HM, Arthur AD, Reid JRW (2010) Woodland bird declines in the Murray-Darling Basin: are there links with floodplain change? *Rangeland Journal* **32**, 315–327.
- 4 Pusey BJ, Kennard MJ (2009) *Aquatic Ecosystems in Northern Australia*. Northern Australia Land and Water Taskforce, Canberra.
- 5 Guzik MT, Austin AD, Cooper SJB, Harvey MS, Humphreys WF *et al.* (2011) Is the Australian subterranean fauna uniquely diverse? *Invertebrate Systematics* **24**, 407–418.
- 6 Tomlinson M (2011) *Ecological Water Requirements of Groundwater Systems: A Knowledge and Policy Review*. National Water Commission, Canberra.
- 7 <http://www.bom.gov.au/water/about/publications/document/BOM_GDE_Atlas_info_sheet_WEB.pdf>
- 8 Chapman AD (2009) *Numbers of Living Species in Australia and the World*. Australian Government Department of the Environment, Water, Heritage and the Arts, Canberra.
- 9 Morgan DL, Gill HS, Potter IC (1998) *Distribution, Identification and Biology of Freshwater Fishes in South-western Australia*. Western Australian Museum, Perth.
- 10 Murray–Darling Basin Authority (2012) *The Proposed ‘Environmentally Sustainable Level of Take’ for Surface Water of the Murray–Darling Basin: Method and Outcomes*. Murray–Darling Basin Authority, Canberra.
- 11 Connell D, Grafton Q (2011) *Basin Futures: Water Reform in the Murray-Darling Basin*. ANU E Press, Canberra.
- 12 Australian Government (2008) National Heritage List, 2005. No. 105778. Australian Government, Canberra; Maclean K, Bark R, Moggridge B, Jackson S, Pollino C (2012) *Ngemba Water Values and Interests: Ngemba Old Mission Billabong and Brewarrina Aboriginal Fish Traps* (Baiaime’s Nguunhu). CSIRO Water for a Healthy Country Flagship, Canberra.
- 13 Natural Resource Management Ministerial Council (2010) *Australia’s Biodiversity Conservation Strategy 2010–2030*.

-
- Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra.
- 14 Arthington AH, Balcombe SR (2011) Extreme flow variability and the 'boom and bust' ecology of fish in arid-zone floodplain rivers: a case history with implications for environmental flows, conservation and management. *Ecohydrology* **4**, 708–720.
- 15 Murray-Darling Basin Commission (2004) *Native Fish Strategy for the Murray-Darling Basin 2003–2013*. Murray-Darling Basin Commission, Canberra.
- 16 Steffen W, Burbidge AA, Hughes L, Kitching R, Lindenmayer D *et al.* (2009) *Australia's Biodiversity and Climate Change: A Strategic Assessment of the Vulnerability of Australia's Biodiversity to Climate Change*. CSIRO Publishing, Melbourne.
- 17 <<http://www.csiro.au/en/Organisation-Structure/Flagships/Water-for-a-Healthy-Country-Flagship/Ecosystems-and-Contaminants/Paika-Lake-and-wetlands-restoration.aspx>>
- 18 Baldwin DS, Colloff MJ, Rees GN, Chariton AA, Watson GO, Court LN, Hartley DM, Morgan MJ, King AJ, Wilson JS, Hodda M, Hardy CM (2013) Impacts of inundation and drought on eukaryote biodiversity in semi-arid floodplain soils. *Molecular Ecology* **22**, 1746–1758.
- 19 Holland KL, Doody TM, Jolly ID (2011) *Transpiration Water Use and Ecophysiology of Riparian Vegetation at the Bookpurnong Floodplain*. CSIRO Water for a Healthy Country Flagship, Canberra.
- 20 Australian Government (2012) *National Wildlife Corridors Plan: A Framework for Landscape-scale Conservation*. Australian Government, Canberra.
- 21 Kingsford RT, Dunn H, Love D, Nevill J, Stein J, Tait J (2005) *Protecting Australia's Rivers, Wetlands and Estuaries of High Conservation Value*. Australian Government Department of Environment and Heritage Australia, Canberra.
- 22 Zedler JB, Kercher S (2004) Causes and consequences of invasive plants in wetlands: opportunities, opportunists, and outcomes. *Critical Reviews in Plant Sciences* **23**, 431–445.
- 23 Murray-Darling Basin Authority (2012) *Sustainable Rivers Audit 2: The Ecological Health of Rivers in the Murray-Darling Basin at the End of the Millenium Drought (2008–2010)*. Murray-Darling Basin Authority, Canberra.
- 24 Doody T, Benyon R (2011) Quantifying water savings from willow removal in Australian streams. *Journal of Environmental Management* **92**, 926–935.
- 25 Murray BR, Zeppel MJB, Hose GC, Eamus D (2008) Groundwater-dependent ecosystems in Australia: it's more than just water for rivers. *Ecological Management & Restoration* **4**, 110–113.

Chapter 11

- 1 Mudd GM (2009) The sustainability of mining in Australia: key production trends and their environmental implications for the future. In *Research Report No RR5*. Department of Civil Engineering, Monash University and Mineral Policy Institute, Melbourne.

-
- 2 Fargher JD, Howard BM, Burnside DG, Andrew MH (2003) The economy of Australian rangelands: myth or mystery? *Rangeland Journal* **25**, 140–156.
 - 3 Australian Government (2006) Indicator: LD-19 Land use and land use change. In *State of the Environment Report, 2006*. <<http://www.environment.gov.au/soe/2006/publications/drs/indicator/161/index.html>>.
 - 4 Davies P, Mitchell N, Barmuta L (1996) The impact of historical mining operations at Mount Lyell on the water quality and biological health of the King and Queen River catchments, western Tasmania. In *Mount Lyell Remediation Research and Demonstration Program, Supervising Scientist Report 118*. Office of the Supervising Scientist, Canberra.
 - 5 Det Norske Veritas (2011) Assessment of the risk of pollution from marine oil spills in Australian ports and waters. In *Final Report for the Australian Maritime Safety Authority*, PP002916, p. 45. Det Norske Veritas, London.
 - 6 Australian Government (2011) *A Guide to Undertaking Strategic Assessments: Environment Protection and Biodiversity Conservation Act 1999*. Australian Government, Canberra.
 - 7 Great Barrier Reef Marine Park Authority (2009) *Great Barrier Reef Outlook Report*. Great Barrier Reef Marine Park Authority, Townsville.
 - 8 Douvres F, Badman T (2012) *Mission Report: Reactive Monitoring Mission to the Great Barrier Reef (Australia)*. UNESCO and IUCN, Paris. <<http://whc.unesco.org/en/documents/117104>>.
 - 9 Grant CD (2006) State-and-transition successional model for bauxite mining rehabilitation in the jarrah forest of Western Australia. *Restoration Ecology* **14**, 28–37; Morley S, Grant C, Hobbs R, Cramer V (2004) Long-term impact of prescribed burning on the nutrient status and fuel loads of rehabilitated bauxite mines in Western Australia. *Forest Ecology and Management* **190**, 227–239; Smith MA, Grant CD, Loneragan WA, Koch JM (2004) Fire management implications of fuel loads and vegetation structure in jarrah forest restoration on bauxite mines in Western Australia. *Forest Ecology and Management* **187**, 247–266.
 - 10 Nano CEM, Clarke PJ, Pavey CR (2012) Fire regimes in arid hummock grasslands and *Acacia* shrublands. In *Flammable Australia: Fire Regimes, Biodiversity and Ecosystems in a Changing World* (Eds RA Bradstock, AM Gill, RJ Williams) pp. 195–214. CSIRO Publishing, Melbourne.
 - 11 Cook GD (2012) Fire management and minesite rehabilitation in a frequently burnt tropical savanna. *Austral Ecology* **37**, 686–692.
 - 12 Tongway DJ, Hindley NL (2004) *Landscape Function Analysis: Procedures for Monitoring and Assessing Landscapes with Special Reference to Minesites and Rangelands*. CSIRO Sustainable Ecosystems, Canberra.
 - 13 Tongway D, Hindley N (2003) *Indicators of Ecosystem Rehabilitation Success: Stage Two – Verification of EFA Indicators*. Final Report. In *Report for the Australian Centre for Mining Environmental Research* p. 66. CSIRO Sustainable Ecosystems, Canberra.

-
- 14 Andersen AN, Majer JD (2004) Using invertebrates as bioindicators in land management: ants show the way Down-Under. *Frontiers in Ecology and the Environment* **2**, 291–298.
 - 15 Andersen AN (1993) Ants as indicators of restoration success at a uranium mine in tropical Australia. *Restoration Ecology* **1**, 156–167.
 - 16 Andersen AN, Hoffmann BD, Somes J (2003) Ants as indicators of minesite restoration: community recovery at one of eight rehabilitation sites in a central Queensland mine. *Ecological Management and Restoration* **4**, S12–S19.
 - 17 Pickett EJ, Stockwell MP, Bower DS, Garnham JJ, Pollard CJ *et al.* (2013) Achieving no net loss in habitat offset of a threatened frog required high offset ratio and intensive monitoring. *Biological Conservation* **157**, 156–162.
 - 18 Environmental Offsets Policy (2012) *Environment Protection and Biodiversity Conservation Act*. Australian Government, Canberra.
 - 19 <<http://www.aridrecovery.org.au>>
 - 20 Moseby KE, Read JL, Paton DC, Copley P, Hill BM, Crisp HA (2011) Predation determines the outcome of 10 reintroduction attempts in arid South Australia. *Biological Conservation* **144**, 2863–2872.
 - 21 <<http://www.ichthysproject.com/environment/environmental-documents>>
 - Read C, Norton A, Dovers S, Burgman M *et al.* (2001) *Biodiversity, Australia State of the Environment Report 2001* (Theme Report). CSIRO Publishing on behalf of Australian Government Department of the Environment and Heritage, Canberra. <<http://www.environment.gov.au/node/21579>>; Olson DM, Dinerstein E, Wikramanayake ED, Burgess ND, Powell GVN *et al.* (2001) Terrestrial ecoregions of the world: a new map of life on Earth. *Bioscience* **51**, 933–938; WWF (2013) *Ecoregions: Earth's Most Special Places*. <http://wwf.panda.org/about_our_earth/ecoregions/>.
 - 2 Bastin G, ACRIS Management Committee (2008) *Rangelands 2008 – Taking the Pulse*. National Land & Water Resources Audit, Canberra.
 - 3 Lindenmayer DB, Gibbons P, Bourke M, Burgman M, Dickman CR *et al.* (2012) Improving biodiversity monitoring. *Austral Ecology* **37**, 285–294.
 - 4 Convention on Biological Diversity (2006) *Global Biodiversity Outlook 2*. Secretariat of the Convention on Biological Diversity, Montreal.
 - 5 Hill R, Halamish E, Gordon IJ, Clark M (2013) The maturation of biodiversity as a global social-ecological issue and implications for future biodiversity science and policy. *Futures* **46**, 41–49.
 - 6 <<http://www.cbd.int/sp/targets/>>
 - 7 Walker B, Salt D (2006) *Resilience Thinking*. Island Press, Washington, DC.
 - 8 Wilkinson A, Kupers R (2013) Living in the futures: how scenario planning changed corporate planning. *Harvard Business Review*, May.

Chapter 12

- 1 Data sourced from: Conservation International (2000), cited in Williams J,

-
- 9 <<http://www.csiro.au/national-outlook>>
- 10 State of the Environment Committee (2011)
Australia State of the Environment 2011: Independent Report to the Australian Government Minister for Sustainability, Environment, Water, Population and Communities. Australian Government Department of Sustainability, Environment, Water, Population and Communities, Canberra.
- 11 <<http://www.riotinto.com/documents/ReportsPublications/RTBidoversitystrategyfinal.pdf>>
- 12 Natural Resource Management Ministerial Council (2009) *Australia's Strategy for the National Reserve System 2009–2030*. Commonwealth of Australia, Canberra.
- 13 <<http://www.fisheries.ubc.ca/publications/comparative-assessment-biodiversity-fisheries-and-aquaculture-53-countries%E2%80%99-exclusive-e>>
- 14 Bax N, Williamson A, Aguero M, Gonzalez E, Geeves W (2003) Marine invasive alien species: a threat to global biodiversity. *Marine Policy* **27**, 313–323.
- 15 Hill R, Pert PL, Davies J, Robinson CJ, Walsh F, Falco-Mammone F (2013) *Indigenous Land Management in Australia: Extent, Scope, Diversity, Barriers and Success Factors*. CSIRO Ecosystem Sciences, Cairns.
- 16 Morton SR, Hoegh-Guldberg O, Lindenmayer DB, Harriss Olson M, Hughes L *et al.* (2009) The big ecological questions inhibiting effective environmental management in Australia. *Austral Ecology* **34**, 1–9.