Natural Environment Climate Change Adaptation Action Plan 2022-2026

Supporting document – Further reading

List of further reading

TOPIC	FURTHER READING
Biodiversity and climate change overviews	Dunlop M., Hilbert D.W., Ferrier S., House A., Liedloff A., Prober S.M., Smyth A., Martin T.G., Harwood T., Williams K.J., Fletcher C., and Murphy H. (2012) *The Implications of Climate Change for Biodiversity Conservation and the National Reserve System: Final Synthesis*. A report prepared for the Department of Sustainability, Environment, Water, Population and Communities, and the Department of Climate Change and Energy Efficiency. CSIRO Climate Adaptation Flagship, Canberra. Urban, M. C., Bocedi, G., Hendry, A. P., Mihoub, J.-B., Pe'er, G., Singer, A., Bridle, J. R., Crozier, L. G., De Meester, L., Godsoe, W., Gonzalez, A., Hellmann, J. J., Holt, R. D., Huth, A., Johst, K., Krug, C. B., Leadley, P. W., Palmer, S. C. F., Pantel, J. H., Schmitz, A., Zollner, P. A. and Travis, J. M. J. (2016) Improving the forecast for biodiversity under climate change *Science* **353**(6304): 1113-1122. Staudt, A., Leidner, A. K., Howard, J., Brauman, K. A., Dukes, J. S., Hansen, L. J., Paukert, C., Sabo, J. and Solorzano, L. A. (2013). The added complications of climate change: understanding and managing biodiversity and ecosystems *Front Ecol Environ* **11**(9): 494-501. Steffen, W., Burbidge, A. A., Hughes, L., Kitching, R., Lindenmayer D., Musgrave, W., Stafford Smith M. and Werner P. A. (2009) *Australia's biodiversity and climate change: A strategic assessment of the vulnerability of Australia's biodiversity to climate change*. A report to the Natural Resource Management Ministerial Council commissioned by the Australian Government. CSIRO Publishing. Hoffman, A. A., Rymer, P. D., Byrne, M., Ruthrof, K. X., Whinam, J., McGeoch, M., Bergstrom, D. M., Guerin, G. R., Sparrow, B., Joseph, L., Hill, S. J., Andrew, N. R., Camac, J., Bell, N., Riegler, M., Gardner, J. L. and Williams, S. E. (2019) Impacts of recent climate change on terrestrial flora and fauna: Some emerging Australian examples *Austral Ecology* **44:** 3-27.
Abrupt ecosystem change	Bergstrom, D. M. et al. (2021) Combating ecosystem collapse from the tropics to the Antarctic *Global Change Biology* **27**(9):1692-1703. Godfree, R. C., Knerr, N., Godfree, D. Busby, J., Robertson, B. and Encinas-Viso, F. (2019) Historical reconstruction unveils the risk of mass mortality and ecosystem collapse during pancontinental megadrought *PNAS* **116**(31):15580-15589
Changes in species distribution and abundance and timing of lifecycle events	Pecl, G. T. et al. (2017) Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being *Science* **355**(6332): 1389-1398.

	Olsen, P. (2007) Australia's birds 2007. Birds in a Changing Climate. Supplement to *Wingspan* **14**. Lindenmayer, D, B., Lane, P., Foster, C. N., Westgate, M. J., Sato, C. Ikin, K., Crane, M., Michael, D., Florance, D, and Scheele, B. C. (2018) Do migratory and resident birds differ in their responses to interacting effects of climate, weather and vegetation? *Diversity and Distributions* **25**:449-461.
Impacts on terrestrial ecosystems (including bushfires)	Ecological Society of Australia (2018) *Fire-driven loss of obligate seeder forests in the Alps* Department of Environment Land Water and Planning (2019) *Bushfire-affected Alpine Ash forests given a helping hand* Hale, S. et al. (2016) Fire and climatic extremes shape mammal distributions in a fire-prone landscape *Diversity and Distributions* **22**(11):1127-1138 Williams R. J. et al (2009) *Interactions between climate change, fire regimes and biodiversity in Australia – a preliminary assessment*. Report to the Department of Climate Change and Department of the Environment, Water, Heritage and the Arts, Canberra. Slatyer R. (2010) Climate change impacts on Australia's alpine ecosystems *The ANU Undergraduate Research Journal* **2:**81-97. Fenner School of Environment Society (2020) *Dieback* Australian National University
Impacts on waterways and aquatic ecosystems	Department of Environment, Land, Water and Planning; Bureau of Meteorology; Commonwealth Scientific and Industrial Research Organisation; The University of Melbourne (2020), Victoria's Water in a Changing Climate Department of Sustainability and Environment (2013). *Indicative Assessment of Climate Change Vulnerability for Wetlands in Victoria*. Department of Sustainability and Environment, East Melbourne, Victoria. Victorian Environmental Water Holder (2019) *Protecting waterbirds in climate change* State Government Victoria Pittock, J. and Finlayson, C. M. (2011) Australia's Murray-Darling Basin: freshwater ecosystem conservation options in an era of climate change. *Marine and Freshwater Research* **62**, 232–243 CSIRO (2008) Water availability in the Murray-Darling Basin. A report to the Australian 360 Government from the CSIRO Murray-Darling Basin Sustainable Yields Project. 67 pp. Brandis KJ, Bino G, Spencer JA, Ramp D, & Kingsford RT. (2018) Decline in colonial 4 waterbird breeding highlights loss of Ramsar wetland function. *Biological Conservation* **225**: 5 22–30.
Impacts on marine and coastal ecosystems	Considine, M. (2017) Following the plankton drift. ECOS, Issue 228: State of the Environment Special. CSIRO.

	Evans K, Bax NJ, Smith DC (2016). Marine environment: Climate change. In: Australia state of the environment 2016, Australian Government Department of the Environment and Energy, Canberra. Department of Sustainability and Environment. (2009) Future Coasts: Preparing Victoria's coast for climate change. Fact Sheet. Melbourne, Australia. Brown, F., & Gerbing, C. (2020) The State of Ocean Acidification. ECOS, Issue 272: Climate Adaptation. CSIRO. OzCoasts. Information page on Saline Intrusion Australian Government, Geoscience Australia. Information page on Seawater Intrusion Department of Environment, Land, Water and Planning (2016). Climate change vulnerability and adaptive capacity of coastal wetlands. Decision Support Framework – Volume Two. Department of Environment, Land, Water and Planning, East Melbourne, Victoria. Booth, D. J. , Bond, N. and Macreadie, P. (2011) Detecting range shifts among Australian fishes in response to climate change Marine and Freshwater Research 62:1027-1042. Ling S.D. (2008) Range expansion of a habitat-modifying species leads to loss of taxonomic diversity: a new and impoverished reef state, Oecologia 156:883–894
Invasive species and disease	Low, T. (2008) *Climate Change and Invasive Species. A Review of Interactions November 2006 Workshop Report* Commonwealth of Australia Ogden, L. E. (2018) Climate change, pathogens and people: The challenges of monitoring a moving target *BioScience* **68**(10):733–739 Daszak, P., Cunningham, A. A. and Hyatt, A. D. (2000) Emerging infection diseases of wildlife – threats to biodiversity and human health *Science* **287**(5452): 443-449. Australian Government (2018) *Background document: Threat abatement plan for disease in natural ecosystems caused by Phytophthora cinnamomi* (Commonwealth of Australia) Department of Sustainability and Environment (2008) *Victoria's Public Land Phytophora cinnamomi Management Strategy* (State Government of Victoria).
Futures thinking & Adaptation pathways	Wise, R. M., Fazey, I., Stafford Smith, M. S., Park, S. E., Eakin, H. C., Archer Van Garderen, E. R. M. and Campbell, B. (2014) Reconceptualising adaptation to climate change as part of pathways of change and response *Global Environmental Change* **28**: 325-336. Bosomworth, K., Scott, H., Wilson, J., Pitfield, C., Brunt, K., Brown, G., and Johnson, F. (2018) *Exploring 'Adaptation*

	Pathways' planning through an NRM lens: A report of two exploratory case studies. RMIT University. ISBN: 978-0-9953791-3-8 Barnett, J., Graham, S., Mortreux, C., Fincher, R., Waters, E. and Hurlimann, A. (2014) A local coastal adaptation pathway *Nature Climate Change* **4**: 1103-1108.
Transformational adaptation	Kates, R. W., Travis, W. R. and Willbanks, R. J. (2012) Transformational adaptation when incremental adaptation to climate change are insufficient *Proceedings of the National Academy of Sciences of the United States of America* **109**(19): 7156-7161. Colloff, M., Lavorel, S., Doherty, M. D. and Dunlop, M. (2016b) Adaptation services and pathways for the management of temperate montane forests under transformational change *Climate Change* **138**:267-282. Fedele, G., Donatti, C. I, Harvey, C. A., Hannah, L. and Hole, D. G. (2019) Transformative adaptation to climate change for sustainable social-ecological systems *Environmental Science and Policy* **10:** 116-125.
Supporting adaptation of the natural environment	Stein, B. A., Staudt, A., Cross, M. S., Dubois, N. S., Enquist, C., Griffis, R., Hansen, L. J., Hellman, J. J., Lawler, J. J., Nelson, E. J. and Pairis, A. (2013) Preparing for and managing change: climate adaptation for biodiversity and ecosystems *Front Ecol Environ* **11**(9): 502-510. Prober, S. M., Doerr, V. A. J., Broadhurst, L. M., Williams, K. J. and Dickson, F. (2019) Shifting the conservation paradigm: a synthesis of options for renovating nature under climate change *Ecological Monographs* **89**(1) Colloff, M. J., Lavorel, S., van Kerkhoff, L. E., Wyborn, C. A., Fazey, I., Gorddard, R., Mace, G. M., Foden, W. B., Dunlop, M., Prentice, I. C., Crowley, J., Leadley, P. and Degeorges, P. (2017) Transforming conservation science and practice for a postnormal world *Conservation Biology* **31**(5): 1008-1017. Garnett, S., Franklin, D., Ehmke, G., VanDerWal, J., Hodgson, L., Pavey, C., Reside, A., Welbergen, J., Butchart, S., Perkins, G. and Williams, S (2013) *Climate change adaptation strategies for Australian birds* National Climate Change Adaptation Research Facility, Gold Coast, pp. 109.v