

References for IO1–IO3 templates

- Allen, R.B.; Bellingham, P.J.; Forsyth, D.M.; MacLeod, C.J.; Wright, E.F. 2013: Implementing an inventory and monitoring programme for the Department of Conservation's Natural Heritage Management System. Landcare Research, Lincoln.
<https://www.landcareresearch.co.nz/publications/researchpubs/LC1731-DOC-implementing-inventory-monitoring-programme.pdf>
- Allibone, R.; David, B.; Hitchmough, R.; Jellyman, D.; Ling, N.; Ravenscroft, P.; Waters, J. 2010: Conservation status of New Zealand freshwater fish, 2009. *New Zealand Journal of Marine and Freshwater Research* 44: 271–287.
- Australian and New Zealand Environment and Conservation Council (ANZECC). 2000: Australian and New Zealand Guidelines for Fresh and Marine Water Quality.
<http://www.agriculture.gov.au/water/quality/guidelines/volume-1>
- Robertson, C.J.R.; Hyvönen, P.; Fraser, M.J.; Pickard, C.R. 2007: Atlas of bird distribution in New Zealand 1999–2004. Ornithological Society of New Zealand, Wellington.
- Ausseil, A.-G.E.; Chadderton, W.L.; Gerbeaux, P.; Theo Stephens, R.T.; Leathwick, J.R. 2011: Applying systematic conservation planning principles to palustrine and inland saline wetlands of New Zealand. *Freshwater Biology* 56(1): 142–161.
- Blaschke, P. 2013: Health and wellbeing benefits of conservation in New Zealand. *Science for Conservation* 321. Department of Conservation, Wellington.
<http://www.mhaw.nz/assets/NZ-lit-PDFs/Health-and-wellbeing-benefits-DOC-2013.pdf>
- Blasi, C.; Marchetti, M.; Chiavetta, U.; Aleffi, M.J.; Audisio, P.; Azzella, M.M.; Brunialti, G.; Capotorti, G.; Del Vico, E.; Lattanzi, E.; Persiani, A.M.; Ravera, S.; Tilia, A.; Burrascano, S. 2010: Multi-taxon and forest structure sampling for identification of indicators and monitoring of old-growth forest. *Plant Biosystems* 144(1): 160–170.
- Booth, K. 2006: Review of visitor research for the Department of Conservation. *DOC Research & Development Series* 229. Department of Conservation, Wellington.
- Bowie, M.H.; Black, K.; Boyer, S.; Dickinson, N.M.; Hodge, S. 2016: Persistence of biodiversity in a dryland remnant within an intensified dairy farm landscape. *New Zealand Journal of Ecology* 40(1): 121–130.
- Breen, P.A.; Middleton, D.A.J. 2013: Problems with implementation of the New Zealand Threat Classification System, as illustrated by Baker et al. (2010). *New Zealand Journal of Marine and Freshwater Research* 47(4): 595–598.
<https://doi.org/10.1080/00288330.2013.826248>
- Bregman, T.P.; Sekercioglu, C.H.; Tobias, J.A. 2014: Global patterns and predictors of bird species responses to forest fragmentation: Implications for ecosystem function and conservation. *Biological Conservation* 169: 372–383.
<https://doi.org/10.1016/j.biocon.2013.11.024>
- Brokerhoff, E.G.; Shaw, W.B.; Hock, B.; Kimberley, M.; Paul, T.; Quinn, J.; Pawson, S. 2008: Re-examination of recent loss of indigenous cover in New Zealand and the relative contribution of different land uses. *New Zealand Journal of Ecology* 32: 115–126.

- Brooks, T.M.; Mittermeier, R.A.; da Fonseca, G.A.; Gerlach, J.; Hoffmann, M.; Lamoreux, J.F.; Mittermeier, C.G.; Pilgrim, J.D.; Rodrigues, A.S. 2006: Global biodiversity conservation priorities. *Science* 313: 58–61.
- Byrom, A.E.; Innes, J.; Binny, R.N. 2016. A review of biodiversity outcomes from possum-focused pest control in New Zealand. *Wildlife Research* 43(3): 228–253.
<https://doi.org/10.1071/WR15132>
- Chambers, L.E.; Altwegg, R.; Barbraud, C.; Barnard, P.; Beaumont, L.J., Crawford, R.J.M.; Durant, J.M.; Hughes, L.; Keatley, M.R.; Low, M.; Morellato, P.C.; Poloczanska, E.S.; Ruoppolo, V.; Vanstreels, R.E.T.; Woehler, E.J.; Wolfaardt, A.C. 2013: Phenological Changes in the Southern Hemisphere. *PLOS ONE* 8(10): e75514.
<https://doi.org/10.1371/journal.pone.0075514>
- Chinellato, G.; Iasio, C.; Mair, V.; Strada, C.; Mosna, D.; Phillips, M.; Kenner, R.; Zischg, A. 2015: Remote and Terrestrial Ground Monitoring Techniques Integration for Hazard Assessment and Prediction in Densely Populated Mountain Areas. Pp. 379–384 in Lollino, G.; Giordan, D.; Crosta, G.B.; Corominas, J.; Azzam, R.; Wasowski, J.; Sciarra, N. (Eds): *Engineering Geology for Society and Territory - Volume 2*. Springer, Cham.
- Christie, J.E. 2014: Adapting to a changing climate: A proposed framework for the conservation of terrestrial native biodiversity in New Zealand. Department of Conservation, Wellington.
- Cieraad, E.; Walker, S.; Price, R.; Barringer, J. 2015: An updated assessment of indigenous cover remaining and legal protection in New Zealand's land environments. *New Zealand Journal of Ecology* 39(2): 309–315. <http://www.jstor.org/stable/26198729>
- Connors, B.; Cooper, A. 2014: Determining decision thresholds and evaluating indicators when conservation status is measured as a continuum. *Conservation Biology* 28: 1626–1635.
- Coomes, D.A.; Allen, R.B.; Scott, N.A.; Goulding, C.; Beets, P. 2002: Designing systems to monitor carbon stocks in forests and shrublands. *Forest Ecology and Management* 164(1–3): 89–108. [https://doi.org/10.1016/S0378-1127\(01\)00592-8](https://doi.org/10.1016/S0378-1127(01)00592-8)
- de Cáceres, M.; Wiser S.K. 2012: Towards consistency in vegetation classification. *Journal of Vegetation Science* 23: 387–393. <https://doi.org/10.1111/j.1654-1103.2011.01354.x>
- DOC. 2015: Annual report for the year ended 30 June 2015.
<http://www.doc.govt.nz/Documents/about-doc/role/publications/doc-annual-report-2015.pdf>
- Doherty, J.J.; Anderson, S.A.J.; Pearce, G. 2008: An analysis of wildfire records in New Zealand: 1991–2007.
http://www.scionresearch.com/_data/assets/pdf_file/0003/4593/Doherty-et-al.-2008_National-Stats-Full-Report.pdf
- Eason, C.T.; Murphy, E.C.; Wright, G.R.G.; Spurr, E.B. 2002: Assessment of risks of brodifacoum to non-target birds and mammals in New Zealand. *Ecotoxicology* 11: 35–48. <https://doi.org/10.1023/A:1013793029831>
- Edwards, F.A.; Edwards, D.P.; Larsen, T.H.; Hsu, W.W.; Benedick, S.; Chung, A.; Vun Khen, C.; Wilcove, D.S.; Hamer, K.C. 2014: Functional diversity and land-use change in Borneo. *Animal Conservation* 17(2): 163–173. <https://doi.org/10.1111/acv.12074>

- Fleeger, J.W.; Carmana, K.R.; Nisbet, R.M. 2003: Indirect effects of contaminants in aquatic ecosystems. *Science of The Total Environment* 317(1–3): 207–233.
[https://doi.org/10.1016/S0048-9697\(03\)00141-4](https://doi.org/10.1016/S0048-9697(03)00141-4)
- Frankham, R. 2005: Resolving the genetic paradox in invasive species. *Heredity* 94: 385.
<https://www.nature.com/articles/6800634.pdf>
- Ge, Z; Huahong, S; Xuefei, M; Zhijun, D; Daoji, Li. 2016: Semi-automatic recognition of marine debris on beaches. *Scientific Reports* 6. doi: 10.1038/srep25759
<https://www.nature.com/articles/srep25759>
- Goodman, J. 2013: Conservation and management of New Zealand whitebait species. *Sciblogs*. <https://sciblogs.co.nz/waiology/2013/08/29/conservation-and-management-of-new-zealand-whitebait-species/>
- Gordon, D.P. (Ed.). 2012: *New Zealand Inventory of Biodiversity (Volume 3)*. Canterbury University Press, Christchurch.
- Gormley, A.M.; Holland, E.P.; Barron, M.C.; Anderson, D.P.; Nugent, G. 2016: A modelling framework for predicting the optimal balance between control and surveillance effort in the local eradication of tuberculosis in New Zealand wildlife. *Preventive Veterinary Medicine* 125: 10–18. <https://doi.org/10.1016/j.prevetmed.2016.01.007>
- Harsch, M.A.; Buxton, R.; Duncan, R.P.; Hulme, P.E.; Wardle, P.; Wilmshurst, J. 2012: Causes of tree line stability: stem growth, recruitment and mortality rates over 15 years at New Zealand *Nothofagus* tree lines. *Journal of Biogeography* 39: 2061–2071. <https://doi.org/10.1111/j.1365-2699.2012.02763.x>
- Hitchmough, R. 2013: Summary of the changes to the conservation status of taxa in the 2008–11 New Zealand Threat Classification System listing cycle. *New Zealand Threat Classification Series 1*. Department of Conservation, Wellington.
- Hooper, D.U.; Chapin, F.S.; Ewel, J.J.; Hector, A.; Inchausti, P.; Lavorel, S.; Lawton, J.H.; Lodge, D.M.; Loreau, M.; Naeem, S.; Schmid, B.; Setälä, H.; Symstad, A.J.; Vandermeer, J.; Wardle, D.A. 2005: Effects of biodiversity on ecosystem functioning: A consensus of current knowledge. *Ecological Monographs* 75(1): 3–35.
<https://doi.org/10.1890/04-0922>
- Jamieson, I.G.; Wallis, G.P.; Briskie, J.V. 2006: Inbreeding and endangered species management: Is New Zealand out of step with the rest of the world? *Conservation Biology* 20: 38–47. <https://doi.org/10.1111/j.1523-1739.2005.00282.x>
- Kelly, D.W.; Thomas, H.; Thielges, D.W.; Poulin, R.; Tompkins, D.M. 2010: Trematode infection causes malformations and population effects in a declining New Zealand fish. *Journal of Animal Ecology* 79: 445–452. <https://doi.org/10.1111/j.1365-2656.2009.01636.x>
- Lacy, R.C.; Lindenmayer, D.B. 1995: A simulation study of the impacts of population subdivision on the mountain brushtail possum *Trichosurus caninus* Ogilby (Phalangeridae: Marsupialia), in south-eastern Australia. II. Loss of genetic variation within and between subpopulations. *Biological Conservation* 73(2): 131–142.
[https://doi.org/10.1016/0006-3207\(95\)90037-3](https://doi.org/10.1016/0006-3207(95)90037-3)
- Layke, C.; Mapendembe, A.; Brown, C.; Walpole, M.; Winn, J. 2012: Indicators from the global and sub-global Millennium Ecosystem Assessments: An analysis and next steps. *Ecological Indicators* 17: 77–87.

- Leathwick, J.; Moilanen, A.; Francis, M.; Elith, J.; Taylor, P.; Julian, K.; Hastie, T.; Duffy, C. 2008: Novel methods for the design and evaluation of marine protected areas in offshore waters. *Conservation Letters* 1: 91–102. <https://doi.org/10.1111/j.1755-263X.2008.00012.x>
- Leathwick, J.R.; Snelder, T.; Chadderton, W.L.; Elith, J.; Julian, K.; Ferrier, S. 2010: Use of generalised dissimilarity modelling to improve the biological discrimination of river and stream classifications. *Freshwater Biology* 56: 21–38. <https://doi.org/10.1111/j.1365-2427.2010.02414.x>
- Leathwick, J.R.; Moilanen, A.; Ferrier, S.; Julian, K. 2010: Complementarity-based conservation prioritization using a community classification, and its application to riverine ecosystems. *Biological Conservation* 143(4): 984–991. <https://doi.org/10.1016/j.biocon.2010.01.012>
- Lyver, P.O.B.; Timoti, P; Jones, C.J.; Richardson, S.J.; Tahi, B.L.; Greenhalgh S. 2017: An indigenous community-based monitoring system for assessing forest health in New Zealand. *Biodiversity and Conservation* 26(13): 3183–3212. <https://doi.org/10.1007/s10531-016-1142-6>
- McGlone, M.; Walker, S. 2011: [Potential effects of climate change on New Zealand's terrestrial biodiversity and policy recommendations for mitigation, adaptation and research](#). *Science for Conservation* 312. Department of Conservation, Wellington. <http://www.doc.govt.nz/Documents/science-and-technical/sfc312entire.pdf>
- McMahon, S.M; Harrison, S.P.; Armbruster, W.S.; Bartlein, P.J.; Beale, C.M.; Edwards, M.E.; Kattge, J.; Midgley, G.; Morin, X.; Prentice, I.C. 2011: Improving assessment and modelling of climate change impacts on global terrestrial biodiversity. *Trends in Ecology & Evolution* 26(5): 249–259. <https://doi.org/10.1016/j.tree.2011.02.012>
- Meurk, C.D.; Swaffield, S.R. 2000: A landscape ecological framework for indigenous regeneration in rural New Zealand-Aotearoa. *Landscape and Urban Planning* 50(1–3): 129–144. [https://doi.org/10.1016/S0169-2046\(00\)00085-2](https://doi.org/10.1016/S0169-2046(00)00085-2)
- National Research Council. 2000: Ecological indicators for the nation. National Academy Press, Washington, D.C.
- New Zealand Government. 2016: New Zealand to be Predator Free by 2050 [press release]. <https://www.beehive.govt.nz/release/new-zealand-be-predator-free-2050>
- Ontario Ministry of Natural Resources. 2002: State of the forest report, 2001. Ministry of Natural Resources, Peterborough, Ontario.
- Overton, J.; Price, R.; Ferrier, S.; Manion, G. 2011: GDM terrestrial ecosystem classifications. Landcare Research, Hamilton.
- Pachauri, R.K.; Meyer, L.A.; Core Writing Team (Eds.). 2014: Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. IPCC, Geneva, Switzerland.
- Parliamentary Commissioner for the Environment. 2012: Water quality in New Zealand: understanding the science. <http://www.pce.parliament.nz/media/1278/pce-water-quality-in-new-zealand.pdf>
- Parliamentary Commissioner for the Environment. 2016: The state of New Zealand's environment: Commentary by the Parliamentary Commissioner for the Environment

on Environment Aotearoa 2015. <http://www.pce.parliament.nz/media/1666/the-state-of-new-zealand-s-environment.pdf>

Paulsen, S.G.; Mayio, A.; Peck, D.V.; Stoddard, J.L.; Tarquinio, E.; Holdsworth, S.M.; Van Sickle, J.; Yuan, L.L.; Hawkins, C.P.; Herlihy, A.T.; Kaufmann, P.R.; Barbour, M.T.; Larsen, D.P.; Olsen, A.R. 2008: Condition of stream ecosystems in the US: an overview of the first national assessment. *Journal of the North American Benthological Society* 27(4): 812–821.

Rhodes, L.; Smith, K.; Moisan, C. 2013: Shifts and stasis in marine HAB monitoring in New Zealand. *Environmental Science and Pollution Research* 20: 6872–6877.
<https://doi.org/10.1007/s11356-012-0898-9>

Ridley, G.S.; Bain, J.; Bulman, L.S.; Dick, M.A.; Kay, M.K. 2000: Threats to New Zealand's indigenous forests from exotic pathogens and pests. *Science for Conservation* 142. Department of Conservation, Wellington.
<http://www.nationalparks.co.nz/Documents/science-and-technical/sfc142.pdf>

Robertson, C.J.R.; Hyvonen, P.; Fraser, M.J.; Pickard, C.R. 2007: Atlas of bird distribution in New Zealand, 1999–2004. Ornithological Society of New Zealand, Wellington.

Rodrigues, A.S.L.; Pilgrim, J.D.; Lamoreux, J.F.; Hoffmann, M.; Brooks, T.M. 2006: The value of the IUCN Red List for conservation. *Trends in Ecology & Evolution* 21(2): 71–76. <https://doi.org/10.1016/j.tree.2005.10.010>

Rose, A.B.; Pekelharing, C.J.; Platt, K.H. 1992: Magnitude of canopy dieback and implications for conservation of southern rata-kamahi (*Metrosideros umbellata*—*Weinmannia racemosa*) forests, Central Westland, New Zealand. *New Zealand Journal of Ecology* 16(1): 23–32. <http://www.jstor.org/stable/24053584>

Ruffell, J.; Innes, J.; Bishop, C.; Landers, T.; Khin, J.; Didham, R.K. 2015: Using pest monitoring data to inform the location and intensity of invasive-species control in New Zealand. *Biological Conservation* 191: 640–649.
<https://doi.org/10.1016/j.biocon.2015.08.022>

Samaniego-Herrera, A.; Anderson, D.P.; Parkes, J.P.; Aguirre-Muñoz, A.; Lukacs, P. 2013: Rapid assessment of rat eradication after aerial baiting. *Journal of Applied Ecology* 50: 1415–1421. <https://doi.org/10.1111/1365-2664.12147>

Schallenberg, M.; Kelly, D.; Clapcott, J.; Death, R.; MacNeil, C.; Young, R.; Sorrell, B.; Scarsbrook, M. 2011: Approaches to assessing ecological integrity in New Zealand freshwaters. *Science for Conservation* 307. Department of Conservation, Wellington.
<http://www.doc.govt.nz/documents/science-and-technical/sfc307entire.pdf>

Singers, N.J.D.; Rogers, G.M. 2014: A classification of New Zealand's terrestrial ecosystems. *Science for Conservation* 325. Department of Conservation, Wellington.
<http://www.doc.govt.nz/documents/science-and-technical/sfc325entire.pdf>

Snelder, T.H.; Dey, K.L.; Leathwick, J.R. 2007: A procedure for making optimal selection of input variables for multivariate environmental classifications. *Conservation Biology* 21: 365–375. <https://doi.org/10.1111/j.1523-1739.2006.00632.x>

Thrush, S.F.; Hewitt, J.E.; Lundquist, C.; Townsend, M.; Lohrer, A.M. 2011: A strategy to assess trends in the ecological integrity of New Zealand's marine ecosystems. NIWA, Hamilton.

- Townsend, A.J.; de Lange, P.J.; Duffy, C.A.J.; Miskelly, C.M.; Molloy, J.; Norton, D. 2008. *New Zealand Threat Classification System manual*. Wellington, Department of Conservation. 35 p.
- Walker, S.; Price, R.; Rutledge, D.T.; Theo Stephens, R.T.; Lee, W.G. 2006: Recent loss of indigenous cover in New Zealand. *New Zealand Journal of Ecology* 30: 169–177.
- Wardle, P. 1986: Frequency of cloud cover on New Zealand mountains in relation to subalpine vegetation. *New Zealand Journal of Botany* 24(4): 553–565.
<https://doi.org/10.1080/0028825X.1986.10409942>
- Wardle, D.A.; Barker, G.M.; Yeates, G.W.; Bonner, K.I.; Ghani, A. 2001: Introduced browsing mammals in New Zealand natural forests: aboveground and belowground consequences. *Ecological Monographs* 4: 587–614. [https://doi.org/10.1890/0012-9615\(2001\)071\[0587:IBMINZ\]2.0.CO;2](https://doi.org/10.1890/0012-9615(2001)071[0587:IBMINZ]2.0.CO;2)
- Williams, P.A.; Wiser, S.; Clarkson, B.; Stanley, M.C. 2007: New Zealand's historically rare terrestrial ecosystems set in a physical and physiognomic framework. *New Zealand Journal of Ecology* 31: 119–128. <http://www.istor.org/stable/24058138>
- Willoughby, J.R.; Sundaram, M.; Wijayawardena, B.K.; Kimble, S.J.A.; Ji, Y.; Fernandez, N.B.; Antonides, J.D.; Lamb, M.C.; Marra, N.J.; DeWoody, J.A. 2015: The reduction of genetic diversity in threatened vertebrates and new recommendations regarding IUCN conservation rankings. *Biological Conservation* 191: 495–503.
<https://doi.org/10.1016/j.biocon.2015.07.025>
- Wiser, S.K.; Hurst, J.M.; Wright, E.F.; Allen, R.B. 2011: New Zealand's forest and shrubland communities: a quantitative classification based on a nationally representative plot network. *Applied Vegetation Science* 14: 506–523. <https://doi.org/10.1111/j.1654-109X.2011.01146.x>
- Woods, A.; Kerr, G.N. 2010: Recreational game hunting: motivations, satisfaction and participation. *Land Environment and People Research Report No. 18*. Lincoln University, Lincoln. <https://hdl.handle.net/10182/2128>