

## CURRICULUM VITAE

### Positions held

2010 – current	<b>Deputy Director (International)</b> , New Zealand Agricultural Greenhouse Gas Research Centre (Wellington/NZ). Responsible for managing New Zealand's science input to the Global Research Alliance on Agricultural Greenhouse Gases, representative of New Zealand government on the Livestock Research Group. Expert advice to New Zealand government on agricultural emissions inventory development, mitigation options and climate-smart response strategies.
2008 – 2010	<b>Senior Research Fellow</b> , New Zealand Climate Change Research Institute, Victoria University of Wellington (Wellington/NZ). Research on impacts/adaptation to climate change including policy implications, and metrics for agricultural greenhouse gases in multi-gas mitigation strategies. Also lectures, seminar series, text book, outreach to media and stakeholders including local and central government agencies, MPs, special interest groups.
2006 – 2008	<b>Head, Technical Support Unit</b> for the Synthesis Report of the IPCC 4 <sup>th</sup> Assessment Report (Exeter/UK and New Delhi/India). Responsible for supporting the Chairman of the IPCC and for coordinating the writing, review, approval and publication process involving a multi-disciplinary team of authors around the world.
2000 – 2006	<b>Adviser / Senior Adviser</b> , Ministry for the Environment and Dept. of Prime Minister and Cabinet, Wellington, New Zealand (Wellington/NZ). Roles: <ul style="list-style-type: none"><li>• National Focal Point for IPCC, head of NZ delegation at panel sessions</li><li>• Negotiator for NZ, UNFCCC (research, science, inventory)</li><li>• Programme leader, climate change science, impacts/adaptation</li><li>• Science-based climate policy advice; high-level mitigation policy review</li><li>• International and domestic science liaison and communication</li></ul>
1998 – 2000	<b>Postdoctoral Research Scientist</b> , National Institute of Water and Atmospheric Research (NIWA) (Wellington/NZ). Measurement of agricultural non-CO <sub>2</sub> greenhouse gas emissions and contribution to inventory development.
1994 – 1995	<b>Research Scientist</b> , National Institute of Water and Atmospheric Research (NIWA) (Lauder/NZ). Measurement and chemistry/transport modelling of ozone depleting substances in the stratosphere.

## Education

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| 1998 | <b>PhD (Physics)</b> , University of Canterbury, Christchurch, New Zealand.<br>Spectroscopic measurement of urban air pollutants and source attribution. <ul style="list-style-type: none"><li>• University of Canterbury Doctoral Scholarship (1995-1998)</li><li>• German Academic Exchange (DAAD) Doctoral Scholarship (1995-1998)</li><li>• NZ Royal Society scholarship to attend Ozone Symposium in Italy (1996)</li></ul> |
| 1994 | <b>Diplom (Physics) (equiv. MSc)</b> , University of Bremen, Germany.<br>Ground-based measurement of ozone depleting substances in the stratosphere. <ul style="list-style-type: none"><li>• Grade: very good (top achievable grade)</li><li>• Bavarian State Scholarship for Academic Excellence (1988-1994)</li></ul>  |

## Appointments and Awards

- 2012 (on-going), appointment as Adjunct Professor, School of Geography, Environment and Earth Sciences, Victoria University of Wellington
- 2007, recognition in the joint award of the Nobel Peace Prize to the Intergovernmental Panel on Climate Change and Al Gore

## Membership on task groups and advisory panels:

- 2012, Chair, Advisory Panel for assessment of research proposals under the Sustainable Land Management and Adaptation to Climate Change Fund, for Ministry of Science and Innovation and Ministry of Primary Industries
- 2011-2014, Member of the Core Writing Team and Topic Facilitator for the Synthesis Report of the Intergovernmental Panel on Climate Change
- 2010-2014, Co-ordinating Lead Author for the Intergovernmental Panel on Climate Change (IPCC) Working Group II, Chapter 25 (impacts/adaptation in Australia / NZ) and drafting team for the Summary for Policymakers
- 2011 (on-going), member and New Zealand representative on the Scientific Programming Group of the Asia-Pacific Network for Global Change Research (APN)
- 2010 (on-going), Member, Agricultural Greenhouse Gas Inventory Advisory Panel to the Ministry of Primary Industries
- 2010 (on-going), Representative for the New Zealand Government, Livestock Research Group of the Global Research Alliance on Agricultural Greenhouse Gases
- 2010 (on-going), Member, Task Group on Data and Scenario Support for Impact and Climate Analysis for the Intergovernmental Panel on Climate Change (IPCC)
- 2009, Chair, Advisory Panel for assessment of research proposals under the Sustainable Land Management and Adaptation to Climate Change Fund, Foundation for Research, Science and Technology, and Ministry of Agriculture and Forestry
- 2005, Member, cross-departmental climate change policy review team, responsible for section on agricultural mitigation policy and science, Ministry for the Environment
- 2000-2003, Secretary, National Science Strategy Committee for Climate Change

## Professional memberships:

- Royal Society of New Zealand

## Selected recent peer-reviewed publications:

### *Journal articles and refereed conference proceedings*

- Rogelj, J., **A. Reisinger**, D.L. McCollum, R. Knutti, K. Riahi, M. Meinshausen, 2015: Mitigation choices impact carbon budget size compatible with low temperature goals. *Environmental Research Letters*, **10(7)**, 075003.
- Ledgard, S.F., **A. Reisinger**, 2014: Implications of alternative greenhouse gas metrics for life cycle assessments of livestock food products. In: *9th International Conference LCA of Food, 8-10 October 2014*, San Francisco, USA.
- Lawrence, J., A. Wolf, **A. Reisinger**, 2013: Institutional transformation in a devolved governance system: Possibilities and limits. In: *Transformation in a Changing Climate, 19-21 June, 2013*, Oslo, Norway. pp 62-72.
- Rogelj, J., D.L. McCollum, **A. Reisinger**, M. Meinshausen, K. Riahi, 2013: Probabilistic cost estimates for climate change mitigation. *Nature*. **493(7430)**, 79-83.
- Reisinger, A.**, S. Ledgard, 2013: Impact of greenhouse gas metrics on the quantification of agricultural emissions and farm-scale mitigation strategies: a New Zealand case study. *Environmental Research Letters*. **8**, 025019.
- Joos, F., R. Roth, et. al, **A. Reisinger**, et. al, 2013: Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. *Atmos. Chem. Phys.* **13(5)**, 2793-2825.
- Lawrence, J., **A. Reisinger**, B. Mullan, B. Jackson, 2013: Exploring climate change uncertainties to support adaptive management of changing flood-risk. *Environmental Science & Policy*. **33**, 133-142.
- Reisinger, A.**, P. Havlik, K. Riahi, O. Vliet, M. Obersteiner, M. Herrero, 2012: Implications of alternative metrics for global mitigation costs and greenhouse gas emissions from agriculture. *Climatic Change*, DOI:10.1007/s10584-012-0593-3.
- Reisinger, A.**, 2011: Interdisciplinarity: are we there yet? *Climatic Change*. **108(1)**, 23-30.
- Reisinger, A.**, M. Meinshausen, M. Manning, 2011: Future changes in Global Warming Potentials under Representative Concentration Pathways. *Environmental Research Letters*. **6**, 024020.
- Shafer, S., C. Walthall, A. Franzluebbers, M. Scholten, J. Meijs, H. Clark, **A. Reisinger**, K. Yagi, A. Roel, B. Slattery, I. Campbell, B. McConkey, D. Angers, J.-F. Soussanna, G. Richard, 2011: Emergence of the Global Research Alliance on Agricultural Greenhouse Gases. *Carbon Management*, **2(3)**, 209-214.
- Manning, M., **A. Reisinger**, 2011: Broader perspectives for comparing different greenhouse gases. *Proceedings of the Royal Society A*. **369(1943)**, 1891-1905.
- Reisinger, A.**, M. Meinshausen, M. Manning, G. Bodeker, 2010: Uncertainties of global warming metrics: CO<sub>2</sub> and CH<sub>4</sub>. *Geophys. Res. Lett.* **37(14)**, L14707.
- Griffith, D.W.T., G.R. Bryant, D. Hsu, **A. Reisinger**, 2008: Methane emissions from free-ranging cattle: comparison of tracer and integrated horizontal flux techniques. *Journal of Environmental Quality*, **37(2)**, 582-591.
- Kelliher, F.M., **A. Reisinger**, R.J. Martin, M.J. Harvey, S.J. Price, R.R. Sherlock, 2002: Measuring nitrous oxide emission rate from grazed pasture using Fourier-transform infrared spectroscopy in the nocturnal boundary layer. *Agricultural and Forest Meteorology*, **111(1)**, 29-38.

### *Refereed books and book chapters*

- Reisinger, A.**, J. Lawrence, G. Hart, R. Chapman, 2015: From coping to resilience: the role of managed retreat in highly developed coastal regions. In: *Climate Change and the Coast: Building Resilient Communities* [Glavovic, B., Kaye R., Kelly M., Travers A. (eds.)]. Taylor and Francis, London.

- IPCC (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*. [Core Writing Team, Pachauri, R.K., Meyer, L.A. (eds.)]. IPCC, Geneva, Switzerland, 151 pp.
- Reisinger, A.**, R.L. Kitching, et. al., 2014: Australasia. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel of Climate Change* [Barros, V.R., Field, C.B., et. al. (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Reisinger, A.**, D. Wratt, S. Allan, H. Larsen, 2011: The role of local government in adapting to climate change: lessons from New Zealand. In: *Climate change adaptation in developed nations. From theory to practice* [Ford, J.D., Berrang-Ford L. (eds.)]. Springer, Toronto, Canada, pp. 303-319.
- Manning, M., **A. Reisinger**, 2011: The Science of Climate Change, its Potential Impacts and Global Response Options. In: *Climate Change Law and Policy in New Zealand* [Cameron, A. (eds.)]. LexisNexis, Wellington, NZ, pp. 1-49.
- Reisinger, A.**, H. Larsen, 2010: Recognising ethics to help a constructive climate change debate. In: *Public Policy - Why Ethics Matters* [Boston, J. (ed)]. ANU E-Press, Canberra
- Reisinger, A.**, B. Mullan, M.R. Manning, D. Wratt, R. Nottage, 2010: Global and local climate change scenarios to support adaptation in New Zealand. In: *Climate change adaptation in New Zealand: Future scenarios and some sectoral perspectives* [Nottage, R., Wratt D., Bornman J., Jones K. (eds.)]. New Zealand Climate Change Centre, Wellington, pp. 26-43.
- Schott, C., **A. Reisinger**, T. Milfont, 2010: Tourism and climate change: interrelationships and implications. In: *Tourism and the implications of Climate Change: Issues and Actions* [Jafari, J., Cai L.A. (eds.)]. Emerald, New Delhi, pp. 1-24.
- Reisinger, A.**, 2009: *Climate Change 101 - An Educational Resource*. Institute of Policy Studies and New Zealand Climate Change Research Institute, Victoria University, Wellington, 320 pp.
- IPCC (eds.), 2007: *Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report*. [Core Writing Team, Pachauri R.K., **Reisinger A.** (eds.)]. Intergovernmental Panel on Climate Change, Geneva, Switzerland, 104 pp.