

Curriculum Vitae

Kevin John Hennessy



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Nationality: Australian

Current position

Director, Climate Comms

Professional summary

Kevin was involved in climate change research in CSIRO for over 30 years, then started a consultancy business called Climate Comms in July 2017. He focused on regional changes in Australia and the western Pacific. In Australia, he assessed past and projected changes in extreme events such as frost, snow, high temperatures, fires, heavy rainfall and droughts. These projections have been used in impact assessments to underpin the need for adaptation and mitigation. In the Pacific, the projections have significantly improved the credibility and relevance of information being used in planning and decision-making.

Kevin developed a reputation as a key CSIRO spokesperson on climate change. He is well known in the Australian, New Zealand and Pacific climate research community. This is reflected in his roles as a Coordinating Lead Author, Lead Author and Expert Reviewer for the Intergovernmental Panel on Climate Change (IPCC).

Kevin has played a significant role in research management. He was a CSIRO Team Leader from 2008-2013, managing 9-14 staff. From May 2013 to June 2014, he was in the CSIRO Climate Adaptation Flagship, managing a Theme comprised of 50 people, 30 projects and an annual budget of around \$9 million. From July 2014 to July 2016, he led the CSIRO Climate Variability, Extreme Weather and Adaptation Group (19 staff), which focused on climate products and services that inform impact assessment and adaptation. From August 2016 to March 2017, he was the Interim Research Director for the CSIRO Climate Science Centre, which had 123 staff, 74 projects and an annual budget of \$19.5 million. He was Deputy Director (CSIRO) of the National Environmental Science Program (NESP) Earth Systems and Climate Change Hub from July 2015 to Feb 2017, then Leader of the Hub from March to May 2017. In July 2017, he created the consulting business Climate Comms to facilitate the uptake of climate information in awareness-raising, planning and decision-making.

Kevin and his colleagues have worked mostly on contracts or co-investment projects due to the strong client-focus and applied nature of climate research. In addition to journal papers, this has enabled the delivery of a range of products and services such as client reports, brochures, posters, videos, websites, web-tools, data, guidance material, training courses, workshops and briefings. Cross-disciplinary research has been fostered in order to enhance the path to impact in areas such as water resources, infrastructure, ecosystems and agriculture.

Key achievements

- Over 200 publications on climate variability, climate change, and extreme events.
 - 27 journal papers, 96 reports, 54 conference papers, 17 book chapters and 19 other articles;
 - Total citations: 1894;
 - H-index: 18.
- A variety of business development and management roles:
 - Founding member of the CSIRO Climate Impact Group in 1989, led by Dr Barrie Pittock up to 1999 and by Dr Penny Whetton up to 2007. Kevin was deputy leader from 2005-2007. This group developed new climate projection methods, secured consultancy projects with a range of stakeholders, and produced many State, Territory and National climate projections over 18 years. These products were used in impact assessments;
 - One of four leaders of the CSIRO Climate Impacts and Adaptation Working Group (IAWG), which was formed in 1999 and involved about 70 scientists. The IAWG coordinated a number of cross-disciplinary activities and provided a platform for the Climate Adaptation Flagship in 2008.
 - Leader of the Risk, Adaptation and Policy team comprising nine scientists in the CSIRO Climate Variability and Change Program from 2008-2009;
 - Leader of the CSIRO Impacts, Adaptation and Vulnerability team comprising 12-14 scientists from September 2009 to May 2013;
 - Theme Leader of Pathways to Adaptation in the CSIRO Climate Adaptation Flagship from May 2013 to June 2014, overseeing 30 projects, with a budget of around \$9 million;
 - Leader of Climate Variability, Extreme Weather and Adaptation Group in the CSIRO Oceans and Atmosphere Flagship from July 2014 to July 2016. Acted as Research Director of the Ocean and Climate Dynamics Program from 11-18 Oct 2014 and 20 July – 13 Sep 2015;
 - Deputy Director of the NESP ESCC Hub from July 2015 to February 2017;
 - Interim Research Director for the CSIRO Climate Science Centre from August 2016 to March 2017;
 - Leader of the NESP ESCC Hub from March to May 2017;
 - Director of Climate Comms from July 2017 to date.
- Leader/Manager of some large projects:
 - Leader of the \$1.4 million Climate Extremes project in the Australian Climate Change Science Program (ACCSP) from July 2009-June 2011;
 - Leader of the \$5.7 million Climate Projections Component in the Pacific Climate Change Science Program (PCCSP) from 2009-2011;
 - Manager of the \$19.5 million climate science part of the Pacific-Australia Climate Change Science and Adaptation Planning (PACCSAP) program from January to June 2012 (a transition period between long-term managers). This also involved closing-out the PCCSP and significant challenges related to finalization of the PACCSAP Implementation Plan, budget management, recruitment of a new Science Program Manager, building capacity in the science management team, and developing relationships with new staff in partner agencies;
 - Leader of the \$4.0 million Climate Projections Theme in the PACCSAP program from July 2012 to May 2013;
 - Manager of the \$8.3 million Australian Natural Resource management (NRM) climate projections program from October 2014 to June 2016;
 - Leader of the \$1 million Data Delivery project in the Australian NRM climate projections program from July 2012 to June 2016;

- Leader of the \$1.1 million Regional Projections Science, Products and Services project in the NESP ESCC Hub from July 2016 to March 2017.
- Significant IPCC input:
 - Contributing author of Chapter 6 “Climate models: projections of future climate” in the 1996 Second Assessment Report on “The Science of Climate Change”;
 - Contributing author of Chapter 2 “Observed climate variability and change” in the 2001 Third Assessment Report on “The Science of Climate Change”;
 - Consultant for the Australian government review of the 2001 Third Assessment Report on “Climate change impacts, vulnerability and adaptation”;
 - Coordinating Lead Author of Chapter 11 “Australia and New Zealand” in the 2007 Fourth Assessment Report on “Climate change impacts, adaptation and vulnerability”;
 - Expert Reviewer of Chapter 25 “Australasia” and Chapter 29 “Small Islands” in the 2014 Fifth Assessment Report on “Climate change impacts, adaptation and vulnerability”.
- Impact:
 - My papers and reports on snow, fire and drought have influenced planning and decision-making, e.g. increased investment in snow-making infrastructure, inclusion of fire weather projections in the Victorian 2009 Bushfires Royal Commission; and use of drought projections in the 2008 National Review of Drought Policy.
 - Contributions to products and services delivered through the PCCSP (2009-2011), PACCSAP (2012-2014) and Climate change in Australia (2012-2016) projects have significantly raised awareness about climate change, been used in planning and decision-making, improved CSIRO’s public profile, developed key stakeholder relationships, and raised external revenue for CSIRO.
 - Contributions to the BoM/CSIRO State of the Climate reports (2010, 2012, 2014, 2016) have also raised awareness about climate change in Australia.
 - My management roles have contributed to strategic directions, tactical decisions, resource management, client relationships and external revenue.

Awards

- The CSIRO Climate Impact Group won the Australia Museum’s Eureka Prize for Environmental Research in August 2003. The citation was *‘For providing... innovative and authoritative assessments of the likely impact of global climate change for Australia, with applications spanning a wide range of activities, sectors and regions, and underpinning national and international adaptation and mitigation strategies.’*
- Contributed to the IPCC, which was awarded the Nobel Peace Prize in 2007;
- CSIRO Marine and Atmospheric Research Recognition Award: one of CSIRO’s top 10 spokespersons during 2007;
- CSIRO Look Out Award 2008: part of the *Climate Change in Australia* project team;
- CSIRO Climate Adaptation Flagship Recognition Award: outstanding performance in relation to media demands associated with the catastrophic Victorian bushfires of February 2009;
- Centre for Australian Weather and Climate Research Award 2009: recognition of leadership and management contributions in the role of Research Group Leader;
- CSIRO Certificate of Appreciation for providing outstanding leadership in PACCSAP management during a transition period (27 Aug 2012);
- Nominated for 2012 Victoria Prize for Science and Innovation (with Penny Whetton)
- CSIRO Certificate of Appreciation for demonstrating a commitment to CSIRO’s role as a trusted advisor by delivering a series of “Climate change in Australia” briefings to federal Government Ministers and senior Federal Government officials (Dec 2014).
- CSIRO Performance Cash Reward to all 39 members of the “Climate change in Australia” project team (July 2015).

Education and training

- Bachelor of Science (Honours), Monash University, 1986
- Postgraduate Diploma in Science Communication, Central Queensland University, 2002
- CSIRO Project Management Fundamentals, 2011
- CSIRO Code of Conduct and You, 2011
- CSIRO Persuasion and Influence, 2012
- CSIRO Recognising and Preventing Workplace Bullying, Harassment and Discrimination, 2012
- CSIRO Supervising People in Science Foundation Workshop, 2012
- CSIRO Competition and Consumer Law, 2012
- CSIRO Commercial and Business Skills Program, 2012
- CSIRO Experienced Leader Program, 2012-2013
- CSIRO Security and Fraud Awareness, 2014
- CSIRO Mental Health Awareness for Managers, 2014
- See through both eyes (Indigenous awareness), 2015
- Code of Conduct and You, 2016
- Impact @ CSIRO, 2016
- CSIRO Behavioural expectation, 2016
- Diversity and inclusion, 2016

Referees

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Publications

Journal papers

1. Kirono, D., **Hennessy**, K. and Grose, M. (2017). Increasing risk of months with low rainfall and high temperature in southeast Australia for the past 150 years. *Climate Risk Management*. doi:10.1016/j.crm.2017.04.001
2. Whetton, P., Grose, M. and **Hennessy**, K. (2016). A short history of the future: Australian climate projections from 1987-2015. *Climate Services*. doi:10.1016/j.cliser.2016.06.001
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4. Whetton, P., **Hennessy**, K., Clarke, J. McInnes, K. and Kent, D. (2012). Use of representative climate futures in impact and adaptation assessment. *Climatic Change*. DOI 10.1007/s10584-012-0471-z
5. Kirono, D.G.C., Kent, D.M., **Hennessy**, K.J. and Mpelasoka, F. (2011). Characteristics of Australian droughts under enhanced greenhouse conditions: Results from 14 global climate models. *Journal of Arid Environments*, 75 (2011) 566e575, doi:10.1016/j.jaridenv.2010.12.012
6. Power, S., Schiller, A., Cambers, G., Jones, D. and **Hennessy**, K. (2011) The Pacific Climate Change Science Program. *Bull. Amer. Met. Soc.* Nov 2011, pp 1409-1411, <http://journals.ametsoc.org/doi/pdf/10.1175/BAMS-D-10-05001.1>
7. **Hennessy**, K. J., P. H. Whetton, K. Walsh, I. N. Smith, J. M. Bathols, M. Hutchinson, J. Sharples (2008). Climate change effects on snow conditions in mainland Australia and adaptation at ski resorts through snowmaking. *Climate Research*, **35**, 255-270. <http://www.int-res.com/articles/cr2007/35/c035p255.pdf>
8. Suppiah, R., **Hennessy**, K.J. Whetton, P.H. McInnes, K. Macadam, I., Bathols, J. Ricketts, J. and Page, C.M. (2007). Australian climate change projections derived from simulations performed for the IPCC 4th Assessment Report. *Australian Meteorological Magazine*, 56, 131-152.
9. Gallant, A. J. E., **Hennessy**, K. J., and Risbey, J. S. (2007). Trends in rainfall indices for six Australian regions: 1910-2005. *Australian Meteorological Magazine*, 56, 223-239.
10. Mpelasoka, F. S., **Hennessy**, K. J., Jones, R. N., and Bates, B. C. (2007). Comparison of suitable drought indices for climate change impacts assessment over Australia towards resource management. *International Journal of Climatology*, DOI: 10.1002/joc.1649.

11. Grace, P. R., Post, W. M., and **Hennessy**, K. J. (2006). The potential impact of climate change on Australia's soil organic carbon resources. *Carbon Balance and Management*, 1 (14): doi:10.1186/1750-0680-1-14.
12. **Hennessy**, K. J., and Walsh, K. J. E. (2003). Letter to the Editor, re: Perceived change in risk of natural disasters caused by global warming by C. R. de Freitas. *Australian Journal of Emergency Management*, 18 (1): 3.
13. Jones, R. N., **Hennessy**, K. J., Kenny, G. J., Suppiah, R., Walsh, K. J. E., De Wet, N., and Whetton, P. H. (2002). Scenarios and projected ranges of change for mean climate and climate variability for the South Pacific. *Asia Pacific Journal on Environment and Development*, 9 (1-2): 1-42.
14. Manton, M. J., Della-Marta, P. M., Haylock, M. R., **Hennessy**, K. J., Nicholls, N., Chambers, L. E., Collins, D. A., Daw, G., Finet, A., Gunawan, D., Inape, K., Isobe, H., Kestin, T. S., Lefale, P., Leyu, C. H., Lwin, T., Maitrepierre, L., Ouprasitwong, N., Page, C. M., Pahalad, J., Plummer, N., Salinger, M. J., Suppiah, R., Tran, V. L., Trewin, B., Tibig, I., and Yee, D. (2001). Trends in extreme daily rainfall and temperature in Southeast Asia and the South Pacific: 1961-1998. *International Journal of Climatology*, 21 (3): 269-284.
15. Whetton, P. H., Katzfey, J. J., **Hennessy**, K. J., Wu, X., McGregor, J. L., and Nguyen, K. C. (2001). Developing scenarios of climate change for Southeastern Australia: an example using regional climate model output. *Climate Research*, 16 (3): 181-201.
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20. **Hennessy**, K. J. (1998). [Book review] Climate process and change by Edward Bryant (Cambridge University Press, 1997). *Australian Meteorological Magazine*, 47 (3): 267-269.
21. Suppiah, R., and **Hennessy**, K. J. (1998). Trends in total rainfall, heavy rain events and number of dry days in Australia, 1910-1990. *International Journal of Climatology*, 18 (10): 1141-1164.
22. **Hennessy**, K. J., Gregory, J. M., and Mitchell, J. F. B. (1997). Changes in daily precipitation under enhanced greenhouse conditions. *Climate Dynamics*, 13 (9): 667-680.
23. Suppiah, R., and **Hennessy**, K. J. (1996). Trends in the intensity and frequency of heavy rainfall in tropical Australia and links with the Southern Oscillation. *Australian Meteorological Magazine*, 45 (1): 1-17.
24. Fowler, A. M., and **Hennessy**, K. J. (1995). Potential impacts of global warming on the frequency and magnitude of heavy precipitation. *Natural Hazards*, 11 (3): 283-303.
25. **Hennessy**, K. J., and Clayton-Greene, K. (1995). Greenhouse warming and vernalisation of high-chill fruit in southern Australia. *Climatic Change*, 30 (3): 327-348.
26. **Hennessy**, K. J., and Pittock, A. B. (1995). Greenhouse warming and threshold temperature events in Victoria. *International Journal of Climatology*, 15 (6): 591-612.
27. Pittock, A. B., Dix, M. R., **Hennessy**, K. J., Katzfey, J. J., McInnes, K. L., O'Farrell, S. P., Smith, I. N., Suppiah, R., Walsh, K. J. E., Whetton, P. H., Wilson, S. G., Jackett, D. R., and McDougall, T. J. (1995). Progress towards climate change scenarios for the southwest Pacific. *Weather and Climate*, 15 (2): 21-45.

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3. Abbs, D., Grose, M., Hemer, M., Jones, D., Lenton, A., McGree, S., Zhang, X., **Hennessy**, K., Power S. and Wilson, L. (2015). *Climate change in the Pacific: a regional summary of new science and management tools*. (Edited by Karen Pearce, Mandy Hopkins, Geoff Gooley, Jodie Kane, Neta Pelesikoti, Salesa Nihmei and Jill Rischbieth). CSIRO and Bureau of Meteorology, Australia.
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http://www.climatechangeinaustralia.gov.au/media/ccia/2.1.5/cms_page_media/176/CCIA_NRM%20DATA%20DELIVER_Y_BROCHURE_1.pdf
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10. Bhend, J., Bathols, J. and **Hennessey**, K. (2012). Climate change impacts on snow in Victoria. CSIRO report for the Victorian Department of Sustainability and Environment, 42 pp.
<http://www.climatechange.vic.gov.au/home/climate-change-impacts-on-snow-in-victoria,-2013>
11. Cambers G., Cook, G., Rischbieth, J., Frencham, L. and **Hennessey**, K. (2012). *Pacific Climate Change Science Program: End of Program Report 2009-2011*. CSIRO and Bureau of Meteorology, 77 pages.
12. **Hennessey**, K. et al (2011). Projections based on global climate models. Chapter 6 in *Climate Change in the Pacific: Scientific Assessment and New Research: Volume 1, regional overview*. Australian Bureau of Meteorology and CSIRO, Australia. 145-180.
<http://www.cawcr.gov.au/projects/PCCSP/publications.html>
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14. Ricketts, J.H. and **Hennessey**, K.J. (2009). *Climate change in southern South Australia and western Victoria*. CSIRO Marine and Atmospheric Research consultancy report prepared for Maunsell AECOM. 98 p.
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20. Macadam, I., **Hennessey**, K. J., O'Grady, J., Cane, J., and McKenzie, F. (2007). *Climate change and infrastructure: a summary*. CSIRO report for Victorian Department of Sustainability and Environment. 7 p.
21. Pearce, K. B., Holper, P. N., Hopkins, M., Bouma, W. J., Whetton, P. H., **Hennessey**, K. J., and Power, S. B., (editors). (2007). *Climate change in Australia: technical report 2007*. CSIRO Marine and Atmospheric Research. 148 p.
22. Pearce, K. B., Holper, P. N., Hopkins, M., Bouma, W. J., Whetton, P. H., **Hennessey**, K. J., and Power, S. B., (editors). (2007). *Climate change in Australia: observed changes and projections*. CSIRO Marine and Atmospheric Research. 8 p.
23. **Hennessey**, K. J., Macadam, I., and Whetton, P. H. (2006). *Climate change scenarios for initial assessment of risk in accordance with risk management guidance*. Marine and Atmospheric Research consultancy report prepared for the Australian Greenhouse Office. 35 p.

24. Brooke, C., and **Hennessy**, K. J. (2005). *Climate change impacts in Gippsland*. CSIRO Marine and Atmospheric Research report prepared for the West Gippsland Catchment Management Authority, 25 p.
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26. **Hennessy**, K. J. (2005). *Climate change impacts and adaptations in Gippsland – a regional response*. CSIRO Marine and Atmospheric Research. 18 p.
27. **Hennessy**, K. J., Lucas, C., Nicholls, N., Bathols, J. M., Suppiah, R., and Ricketts, J. R. (2005). *Climate change impacts on fire-weather in south-east Australia*, Report by CSIRO and the Bureau of Meteorology for the Bushfire CRC, 88 p.
28. Whetton, P. H., McInnes, K. L., Jones, R. N., **Hennessy**, K. J., Suppiah, R., Page, C. M., Bathols, J. M., and Durack, P. J. (2005). *Australian climate change projections for impact assessment and policy application: a review*. CSIRO Marine and Atmospheric Research Paper 001, 34 p.
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