

Senate Standing Committee on Economics
ANSWERS TO QUESTIONS ON NOTICE
Innovation, Industry, Science and Research Portfolio
Budget Estimates Hearing 2011-12
30 May 2011

AGENCY/DEPARTMENT: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION

TOPIC: Publications

REFERENCE: Question on Notice (Hansard, 30 May 2011, E29)

QUESTION No.: BI-13

Senator (Colbeck) Could you give me a sense of the volume of material that would have been published by CSIRO in the last four years on climate science?

Dr Johnson: I could not. I could say that it is very large. We endeavour, as you know, wherever possible, to make the material we do publish on climate science accessible to the public.

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Senator COLBECK: You said that where possible you make it available. What proportion of the documentation would not make it to the public arena?

Dr Johnson: I meant we make it available in terms of everything that we produce being publicly available. It is just that some things we may highlight—for example, on our webpage there are signature documents like the *Climate snapshot* or the climate book. Obviously, everything we publish in the peer reviewed literature is in the public domain and accessible to anyone in the public. I wanted to make sure that was clear. We certainly do not withhold any of our science.

Senator COLBECK: Have you compiled a full list of publications on any particular topic?

Dr Johnson: I do not believe we have formally compiled a list. If that was something that would be of interest to you, we could certainly do our best to assemble that, if that is where you are heading.

Senator COLBECK: We would like, on notice, a list of publications and papers on that particular matter since the end of 2007.

Dr Johnson: Maybe, when that question does come, it is a very large body of work by many hundreds of scientists over a long period of time. So if there were some specific elements—

Senator COLBECK: I am conscious of not creating too huge a bag of worms.

Dr Johnson: It could be a significant amount of work there. If there are specific areas that you are interested in, if you could give us that guidance, that would be appreciated.

Senator COLBECK: Okay. I detect that you have been given some guidance now. I will give you a moment to get it.

Dr Johnson: I have just had some advice from Dr Steele that it is likely to be in the order of 1,200 papers over the last four or five years. It would be a significant effort to do that, Senator. I reiterate that if there are some specific dimensions that you would like some visibility on, I would be happy to do that.

Senator COLBECK: I am sure we are being observed and can define that. I hope we are.

Dr Clark: I would direct you to the recent climate book which was a compilation of the peer reviewed science. Each chapter at the back has the references that relate to that chapter. That would be a very good place to start.

ANSWER

A list of publications by broad research area is provided as follows.

Publication List for Climate - Adaptation

Journal articles

1. Kearns, Allen. Climate adaptation engineering: a new direction for environmental science, engineering and technology in urban environments. *International Journal of Sustainable Development & World Ecology*. 2011; 18(3):201-209.
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13. Viney, N. R., Bates, B. C., Charles, S. P., Webster, I. T., Bormans, M. Modelling adaptive management strategies for coping with the impacts of climate variability and change on riverine algal blooms. *Global change biology*. 2007; 13(11):2453-2465.
14. Viney, NR, Bates, BC, Charles, Stephen P, Webster, IT, Bormans, M. Modelling adaptive management strategies for coping with the impacts of climate variability and change on riverine algal blooms. *Global Change Biology*. 2007; 13(no. 11):2453-2465.

Conference papers/Conference proceedings

1. Nguyen, Minh, Sharma, Ashok, Meharg, Seona, Inman, Matthew. Climate adaptation through sustainable urban development in developing countries: a case study on integrated urban water management in Can Tho, Vietnam. In: *Greenhouse 2011: The Science of Climate Change*; 4 - 8 April 2011; Cairns, QLD. *Greenhouse 2011*; 2011. 1 pp.

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6. Mainuddin, Mohammed, Kirby, Mac, Hoanh, Chu Thai, Jirayoot, Kittipong. Vulnerability and adaptation of agriculture in the Lower Mekong Basin to climate change impacts. In: Herath, S//Wang, Y//Liang, L, editor/s. International Workshop on the Climate Change Responses for Asian International Rivers: Opportunities and Challenges; 26 - 28 February 2010; Beijing, China. United Nations University: United Nations University; 2010. 251-259.
7. Mainuddin, Mohammed, Kirby, Mac, Hoanh, Chu Thai, Jirayoot, Kittipong. Vulnerability and adaptation of agriculture in the Lower Mekong Basin to climate change impacts. In: Herath, S//Wang, Y//Liang, L, editor/s. International Workshop on the Climate Change Responses for Asian International Rivers: Opportunities and Challenges; 26-28 February, 2010; Beijing - China. United Nations University; 2010. 251-259.
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13. Stafford Smith, Mark, Roth, Christian. Climate Change: Future Vulnerability-Future Adaptation-Future Drivers. Integration of social research and farming systems modeling to develop farmer-truthed adaptation strategies. In: International Conference Workshop on Livelihood and Health Impacts of Climate Change: Community Adaptation Strategies; 24-25 August 2010; Khon Kaen, Thailand. Khon Kaen: Khon Kaen University; 2010. 15-19.
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Books/Book chapters

1. C.J Stokes, S Crimp, R Gifford, AJ Ash, SM Howden. Adapting Agriculture to Climate Change. In: CSIRO Publishing; 2010. 153-170 Chapter 10.
2. Marshall N.A.; Stokes C.; Nelson R.N.; Howden S.M. Enhancing the Adaptive Capacity of Agricultural People to Climate Change. In: Stokes, C.; Howden, S.M. Eds, editor/s. Adapting Agriculture to Climate Change. Collingwood, Vic.: CSIRO Publishing; 2010.
3. Marshall, Nadine, Marshall, Paul, Tamelander, Jerker, Obura, David, Mallaret-King, Delphine, Cinner, Joshua. A framework for social adaptation to climate change: sustaining tropical coastal communities and industries. Gland, Switzerland: IUCN; 2010.
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15. Smith, T.F.; Brooke, C.; Measham, Tom; Preston, B.; Gorddard, R.; Withycombe, G.; Beveridge, B.; Morrison, C. Case Studies of Adaptive Capacity: Systems Approach to Regional Climate Change Adaptation Strategies, prepared for the Sydney Coastal Councils Group, Sydney Australia. In: Canberra, ACT: CSIRO Sustainable Ecosystems; 2008.
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Reports

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Other publications

1. MP Bange, GA Constable, D McRae, G Roth. Adapting Agriculture to Climate Change. CSIRO Publishing; 2010.

Publication List for Climate - Agriculture

Journal articles

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15. Luo, Q, Bellotti, W, Williams, M, Cooper, I, Bryan, Brett A. Risk analysis of possible impacts of climate change on South Australian wheat production. *Climatic Change*. 2007; 85(no. 1-2):89-101.
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