

## ATTACHMENT A

\*\* All figures are GST exclusive.

Start Year (Note 1)	Scheme (Note 2)	First-named Chief Investigator (Note 3)	Administering Organisation (Note 4)	Project Title	Funding allocated over the life of the project
2009	LP	Newman, P	Curtin University of Technology	Decarbonising Cities and Regions	\$310,000
2009	FF	Dosseto, A	Macquarie University	The response of soil and river processes to climate change and human activity in Australia	\$686,400
2009	FF	Scheffers, A	Southern Cross University	Unravelling Western Australia's Stormy Past – A Precisely-Dated Sediment Record of Cyclones over the past 7000 years	\$686,400
2009	FF	Atkin, O	The Australian National University	Climate dependence of plant respiration in a warmer, drier world	\$891,200
2009	LP	Tibby, J	The University of Adelaide	The history of North Stradbroke Island's wetlands: defining natural climate variability in south-east Queensland and improving ecosystem management	\$200,000
2009	FF	Lane, T	The University of Melbourne	The dynamics of deep convective clouds and their role in the climate system	\$686,400
2009	LP	Gergis, J	The University of Melbourne	Reconstructing pre-20th century rainfall, temperature and pressure for south-eastern Australia using palaeoclimate, documentary and early weather station data	\$340,000
2009	ALF	Mumby, P	The University of Queensland	Adapting the sustainable exploitation of coral reef resources to provide for climate change	\$2,985,000
2009	FF	Richardson, A	The University of Queensland	The resilience of marine ecosystems and fisheries to climate change: exploring adaptation strategies	\$788,800
2009	FF	Franks, P	The University of Sydney	Past and future effects of climate change on the carbon-water balance of plants	\$756,800
2009	FF	Strutton, P	University of Tasmania	Southern Ocean productivity and carbon dioxide (CO <sub>2</sub> ) exchange under current and future climate regimes	\$788,800
2010	LIEF	Mather, D	Australian Institute of Nuclear Science and Engineering	High-resolution ITRAX XRF core scanning facility for global change research	\$420,000
2010	SSF	Lough, J	Australian Institute of Marine Science (AIMS)	A changing climate for calcification on the Great Barrier Reef: past, present and future	\$835,200
2010	LIEF	Grice, K	Curtin University of Technology	High resolution liquid chromatography mass spectrometry (Orbitrap) for analyses of polar compounds in biomass, petroleum, potable and reclaimed water	\$300,000

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2010	DP	Xu, Z	Griffith University	Environmental fingerprints of biogeochemical cycles embedded in tree rings: Linking global climate change to local long-term forest productivity	\$450,000
2010	DIRD	Hunter, C	James Cook University	Developing predictive tools for rapid assessment of multiple impacts, including climate change, on the marine ecosystem of Torres Strait (Australia)	\$180,834
2010	SSF	Hughes, T	James Cook University	Resilience of Coral Reef Ecosystems to Climate Change	\$556,800
2010	DP	Stern, N	La Trobe University	Human responses to long term landscape and climate change in the Willandra Lakes World Heritage Area	\$652,000
2010	DP	Petelina, S	La Trobe University	The coldest region on Earth gets even colder	\$95,000
2010	LP	Kear, B	La Trobe University	Mesozoic Austral Biodiversity: Research and Regional Museum Applications	\$600,000
2010	DP	Medlyn, B	Macquarie University	Elevated carbon dioxide (CO <sub>2</sub> ) effects on vegetation: repairing the disconnect between experiments and models	\$335,000
2010	DP	Beardall, J	Monash University	Toxic cyanobacterial blooms in a carbon dioxide (CO <sub>2</sub> )-rich world: assessing the impacts of global climate change	\$290,000
2010	DP	Christensen, S	Queensland University of Technology	An Integrated Legal Regime for a Sustainable Carbon Cycle	\$324,000
2010	DP	Nothdurft, L	Queensland University of Technology	Environmental stress indicators in coral skeletons	\$120,000
2010	DP	Cockburn, A	The Australian National University	Fitness in free-living populations in a changing world	\$626,000
2010	DP	O'Neill, T	The Australian National University	The improvement of climate change investigations by developing and applying innovative evolutionary subset time series modelling using semi-parametric sparse-patterned approaches	\$300,000
2010	DP	Atkin, O	The Australian National University	Leaf respiration under drought: a global perspective	\$330,000
2010	DP	Griffiths, R	The Australian National University	Sensitivity and Change in the Global Ocean Overturning	\$435,000
2010	DP	Barrows, T	The Australian National University	Understanding global warming using long-term glacier retreat records	\$160,000

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2010	DP	Gagan, M	The Australian National University	Multi-proxy fingerprinting, absolute dating, and large-scale modelling of Quaternary climate-volcano-environment impacts in southern Australasia	\$550,000
2010	SSF	Fifield, L	The Australian National University	Novel dating methods for marine sediments of relevance to determining past climate changes	\$556,800
2010	DP	Lambert, M	The University of Adelaide	A new flood design methodology for a variable and changing climate	\$340,000
2010	DP	Keough, M	The University of Melbourne	Understanding the ecological resilience of near shore marine communities	\$350,000
2010	DP	Han, S	The University of Melbourne	Configuring low carbon cities: an exploration of the role of spatial parameters in monocentric and polycentric examples in China	\$481,000
2010	DP	Moss, J	The University of Melbourne	Egalitarian Responses to Climate Change	\$218,500
2010	DP	Rayner, P	The University of Melbourne	Assimilation of trace atmospheric constituents for climate (ATACC): Linking chemical weather and climate	\$940,000
2010	SSF	Walker, J	The University of Melbourne	Towards operational monitoring of key climate parameters from synthetic aperture radar	\$556,800
2010	LP	Barnett, J	The University of Melbourne	Equitable local outcomes in adaptation to sea-level rise	\$298,000
2010	LP	McMahon, T	The University of Melbourne	Narrowing the scatter and assessing the uncertainty of climate change projections of Australian river flows	\$240,000
2010	DP	Metcalf, I	The University of New England	Understanding mass extinctions and deep-time climate change: International Timescale Calibration of the Late Permian-Early Triassic of Australia.	\$230,000
2010	DP	Black, K	The University of New South Wales	Drying and dying in Australia: extraordinary creatures and climate change 15 million years ago	\$550,000
2010	DP	England, M	The University of New South Wales	Modes of Pacific Ocean variability and their relationship to regional Southern Hemisphere climate	\$264,237
2010	DP	Cavicchioli, R	The University of New South Wales	Microbial genomics of the southern ocean: monitoring environmental health	\$950,000
2010	DP	Peters, G	The University of New South Wales	Interdisciplinary greenhouse gas assessment - nitrous oxide emissions from marine wastewater disposal	\$320,000
2010	DP	Sijp, W	The University of New South Wales	The equable climate conundrum: the role of the global ocean in multiple climate regimes	\$524,830
2010	DP	Betz, R	The University of New South Wales	Climate change and energy policy: elements of a robust policy mix	\$300,000

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2010	SSF	England, M	The University of New South Wales	Precipitation-groundwater interactions over eastern Australia: climate change impacts at multiple scales	\$835,200
2010	DP	Walter, G	The University of Queensland	Understanding responses of tightly coupled ecological interactions of biota vulnerable to climate change: endangered Australian cycads and their pollinators	\$120,000
2010	SSF	Hoegh-Guldberg, O	The University of Queensland	Treading water in a changing climate: The vulnerability of Australia's tropical islands to sea level rise.	\$556,800
2010	DP	Webster, J	The University of Sydney	Integrated Ocean Drilling Program (IODP) drilling in the Great Barrier Reef: unlocking the causes, rates and consequences of abrupt sea level and climate change.	\$372,000
2010	DP	Penny, D	The University of Sydney	Thresholds and hysteresis: how do abrupt changes in the Asian monsoon affect ecosystems and environmental processes?	\$285,000
2010	DP	Lyster, R	The University of Sydney	Developing a legal framework for Indonesia's participation in an internationally sanctioned scheme for reducing emissions from deforestation (and degradation)	\$224,000
2010	DP	Black, C	The University of Sydney	The design and application of taxation laws to domestic and cross-border transactions triggered by carbon emissions trading schemes	\$217,000
2010	DP	Waite, A	The University of Western Australia	Ocean-reef interactions as drivers of continental shelf productivity in a changing climate	\$503,000
2010	DP	Trotter, J	The University of Western Australia	Global Climate Change, Carbon Dioxide (CO <sub>2</sub> ), and the Evolution of Life in the Palaeozoic and Early Mesozoic	\$355,000
2010	LIEF	McCulloch, M	The University of Western Australia	Advanced Geochemical Facility for Climate and Environmental Change Research: a Western Australian/Indian Ocean focus	\$700,000
2010	DP	Dutta, N	University of South Australia	Shape Controlled Nanostructured Electrocatalyst for Clean Energy Generation	\$430,000
2010	DP	Hallegraeff, G	University of Tasmania	Climate change and ocean acidification: will southern ocean coccolithophorids be winners or losers? Implications for the global carbon pump	\$280,000
2010	DP	Johnson, C	University of Tasmania	Impacts of climate change on biogenic habitat-forming seaweeds in south east Australia	\$275,000

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2010	DIRD	Parker, L	University of Western Sydney	Climate change research: Can Sydney rock oysters adapt to chronic multigenerational exposure to ocean acidification and temperature?	\$199,988
2010	DP	Banerjee, S	University of Western Sydney	Corporate and institutional strategies for climate change: An international comparative study	\$295,000
2010	DP	Riegler, M	University of Western Sydney	Insect herbivore and plant responses in eucalypt forests under climate change at physiological, species and community scales	\$305,000
2010	DP	McGregor, H	University of Wollongong	Untangling the links between El Nino and the changing global climate	\$350,000
2010	DP	Dosseto, A	University of Wollongong	Soil erosion and river system response to climate change and early human activity in Australia	\$300,000
2010	DP	Warner, R	University of Wollongong	Harnessing the oceans to combat climate change: Developing law and policy frameworks for ocean energy and climate change mitigation	\$322,000
2010	DP	Nanson, G	University of Wollongong	How green were our deserts? Evidence for Late Quaternary climate change and the source of water in the Lake Eyre basin	\$350,000
2010	LP	Perera, C	Victoria University	Multi-Objective Planning and Operation of Water Supply Systems Subject to Climate Change	\$80,007
2011	SSF	Blackall, L	Australian Institute of Marine Science (AIMS)	A Changing Climate on the Great Barrier Reef: Present and Future Implications	\$835,200
2011	SSF	Hughes, T	James Cook University	Resilience of Coral Reef Ecosystems to Climate Change	\$835,200
2011	SSF	Possingham, H	The University of Queensland	Defend or retreat? Adapting to the impacts of sea level rise as a result of rapid climate change.	\$835,200
2011	SSF	McCulloch, M	The University of Western Australia	Indian Ocean Climate Change: Ningaloo Reef, a litmus test for the survival of coral reefs	\$556,800
2011	SSF	Johnson, C	University of Tasmania	Effects of climate change on temperate benthic assemblages on the continental shelf in eastern Australia	\$556,800

**Note the following References are for Attachment A**

**Note (1):** Start year – The list includes projects which received funding commencing in the years 2009 to 2011.

- Data for projects commencing in 2009 comprises data from those schemes for which selection rounds had not been finalised at the time the first question was asked. The schemes are *Linkage Projects Round 2, Future Fellowships* and *Australian Laureate Fellowships*.
- Data for projects commencing in 2010 is incomplete as funding for the following scheme rounds are yet to be finalised – *Linkage Projects Round 2, Future Fellowships* and *Australian Laureate Fellowships*.

- Data for projects commencing in 2011 comprises the second round of *Super Science Fellowships*

**Note (2):** Scheme – ALF (*Australian Laureate Fellowships*); DIRD (*Discovery Indigenous Researcher Development*); DP (*Discovery Projects*); FF (*Future Fellowships*); LIEF (*Linkage Infrastructure, Equipment and Facilities*); LP (*Linkage Projects*); SSF (*Super Science Fellowships*)

**Note (3):** Administering organisation – Under the NCGP, administering institutions are responsible for administration of funding if a proposal is approved for funding.

**Note (4):** First-named Chief Investigator – The first-named researcher nominated on a Proposal is considered to be the Project Leader.