

Notes on CSIRO's: Climate Change: Science and Solutions 2011

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Contains emotive irrelevant images.

Foreword by Megan Clark, CSIRO CEO

This book seeks to provide a bridge from the peer-reviewed scientific literature to a broader audience of society while providing the depth of science that this complex issue demands and deserves.

Of the approximately 157 references to other documents, only 54% percent are to peer-reviewed papers. This is a worse percentage than the IPCC's Fourth Assessment Report. The reference to the Newcastle Herald is the extreme case.

The commissioning organisation

CSIRO has set up the following agencies:

- CSIRO Climate Adaptation Flagship
- CSIRO Energy Transformed Flagship
- CSIRO Sustainable Agriculture Flagship
- CSIRO Advanced Coal Technology Portfolio
- CSIRO Wealth from Oceans Flagship
- CSIRO Energy Technology

It is easy to see which mast CSIRO has nailed its colours to. This document is presumably intended to all these agencies to “strut their stuff” with no dissenting voices heard.

Editors and Project Manager

The project manager, Simon Torok has had affiliations with the University of East Anglia whose culture was exposed in the ClimateGate emails.

Helen Cleugh is involved with the Climate Commission Science Advisory Panel.

Paul Graham has IPCC affiliations.

Mark Stafford Smith was involved in the Planet Under Pressure media event which also covered Global Governance.

Authors

All from CSIRO except Karl Braganza who has co-authored more than 10 papers with David Karoly – a strident proponent of CAGW.

Andrew Ash	Green Cross Australia	The mission of GCIAust is to respond to the combined challenges of security, poverty and environmental degradation to	Maurice Strong, the architect of Agenda 21, is or has been directly affiliated with Club of Rome, which include Ian Dunlop, from this
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		ensure a sustainable and secure future.	organisation.
John Church, Michael Raupach	2007 Bali Declaration by Climate Scientists	If this trend is not halted soon, many millions of people will be at risk from extreme events such as heat waves, drought, floods and storms, our coasts and cities will be threatened by rising sea levels, and many ecosystems, plants and animal species will be in serious danger of extinction.	Maurice Strong, the architect of Agenda 21, is or has been directly affiliated with Club of Rome, Stockholm Environment Institute, which include Stephen Schneider, Johan Rockstrom, from this organisation.
Chris Stokes	UK Met Office 2009 Consensus List	We, members of the UK science community, have the utmost confidence in the observational evidence for global warming and the scientific basis for concluding that it is due primarily to human activities. The evidence and the science are deep and extensive. They come from decades of painstaking and meticulous research, by many thousands of scientists across the world who adhere to the highest levels of professional integrity.	

Bryson Bates, John Church, Rob Coleman, Paul Fraser, Paul Graham, Kevin Hennessy, Mark Howden, Michael Raupach, Penny Whetton	IPCC AR4		The IAC Report uncovered conflict of interest, political interference, bias and poor treatment of uncertainty
Xiaoming Wang	Greenpeace	No one knows how much warming is "safe". What we do know is that climate change is already harming people and ecosystems. Its reality can be seen in melting glaciers, disintegrating polar ice, thawing permafrost, dying coral reefs, rising sea levels, changing ecosystems and fatal heat waves.	Maurice Strong, the architect of Agenda 21, is or has been directly affiliated with World Wildlife Fund, Stockholm Environment Institute, Chicago Climate Exchange, which include Rajendra Pachauri, Richard Klein, Richard Moss, from this organisation.

Reviewers

The review team were all from CSIRO or BOM. There was no apparent outside review. The instructions to the reviewers were not made public. If the review team were charged with rooting out bias, conflict of interest, political interference, undisclosed uncertainty, deviations from the scientific method and blatant advocacy – then they failed dismally. If the review team was there to ensure that only the CSIRO party line was followed – then they succeeded.

Funding of underlying research

- Department of Climate Change and Energy Efficiency,
- Bureau of Meteorology,
- CSIRO.

Publishing the research

The Bureau of Meteorology has its own in house journal: the Australian Meteorological and Oceanographic Journal (previously Aust. Meteorol. Mag). The editor-in-chief responsible for the defence of the scientific method, elimination of all types of bias, automatic release of all relevant data and code is none other than David Karoly - strident proponent of CAGW. The BOM itself has taken a strong partisan position on the subject.

The Journals

Many of the journals are hardly impartial.

Journal	Pubs	By	Mission or Notes
Geophysical Research Letters	7	AGU	AGU galvanizes a community of Earth and space scientists that collaboratively advances and communicates science and its power to ensure a sustainable future
Nature	6		The ClimateGate emails suggest that Nature was a tame journal
Aust. Meteorol. Mag	5		BOM house journal

Journal of Climate	5	AMS	
International Journal of Climatology	3		
Journal of Geophysical Research-Atmos	3	AGU	AGU galvanizes a community of Earth and space scientists that collaboratively advances and communicates science and its power to ensure a sustainable future
Nature Geoscience	2		

Proceedings of the National Academy of Sciences USA	5		
Global Biogeochemical Cycles	2	AGU	AGU galvanizes a community of Earth and space scientists that collaboratively advances and communicates science and its power to ensure a sustainable future
Science	2	AAAS	The scientific evidence is clear: global climate change caused by human activities is occurring now, and it is a growing threat to society.
Environmental Science Policy	2	Elsevier	RenewableJetFuels.org is a joint initiative between Elsevier and Carbon War Room, a non-profit founded by Branson that harnesses the power of entrepreneurs to unlock gigaton solutions to climate change.
Current Opinion in Environmental Sustainability	1		John Church has or is on the editorial board
Australian Meteorological and Oceanographic Journal	1		BOM house journal
Climatic Change	1		The supreme CAGW journal whose editorial board includes many interesting people.

Proceedings of the National Academy of Science	1	NAS	Climate change is occurring, is very likely caused primarily by the emission of greenhouse gases from human activities, and poses significant risks for a range of human and natural systems.
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Separation of Function

49 of the references had an author who was on the team for this document.

2 of the references had an author on the editorial board of the publishing journal.

Authors of the referenced publications

The authors belong to the following organisations (and others).

Organisation	Mission or notes
Intergovernmental Panel on Climate Change	
Commonwealth Scientific and Industrial Research Organisation	Greenhouse gas emissions from human activities are highly likely to have caused most of the global warming since the mid 20th century.
Centre for Australian Weather and Climate Research	The Centre was established in September 2007 to provide the combined critical mass necessary to keep Australia at the forefront of weather, climate and oceans research.
2007 Bali Declaration by Climate Scientists	If this trend is not halted soon, many millions of people will be at risk from extreme events such as heat waves, drought, floods and storms, our coasts and cities will be threatened by rising sea levels, and many ecosystems, plants and animal species will be in serious danger of extinction.

<p>UK Met Office 2009 Consensus List</p>	<p>We, members of the UK science community, have the utmost confidence in the observational evidence for global warming and the scientific basis for concluding that it is due primarily to human activities. The evidence and the science are deep and extensive. They come from decades of painstaking and meticulous research, by many thousands of scientists across the world who adhere to the highest levels of professional integrity.</p>
<p>University of East Anglia</p>	
<p>Tyndall Centre</p>	<p>Started by Mike Hulme - sometime advocate of post normal science</p>
<p>Bureau of Meteorology</p>	
<p>Wall Street Journal Signatories of Feb 2012</p>	<p>Research shows that more than 97% of scientists actively publishing in the field agree that climate change is real and human caused. It would be an act of recklessness for any political leader to disregard the weight of evidence and ignore the enormous risks that climate change clearly poses.</p>

World Wildlife Fund Science Advisory Panel	The role of the Science Advisory Panel is to establish if the impacts observed by Climate Witnesses are consistent with current scientific knowledge of human-induced climate change events in a particular region. FROM THE WWFSAP QUESTIONNAIRE: U Activities of extraterrestrial organizations and bodies
Climate Scientists Australia	Through our extensive research and our knowledge of the rapidly-accruing peer-reviewed international scientific literature, we are convinced that climate change is already happening, and are concerned about its potential impacts if emissions continue unchecked.
Australian Meteorological and Oceanographic Society	Global climate change and global warming are real and observable... It is highly likely that those human activities that have increased the concentration of greenhouse gases in the atmosphere have been largely responsible for the observed warming since 1950.
Keystone 2012 Letter to US Congress	Now that we do know, it's imperative that we move quickly to alternate forms of energy - and that we leave the tar sands in the ground

<p>Climate Commission Science Advisory Panel</p>	<p>To support its role in providing information and expert advice on the science of climate change and the impacts on Australia, the Commission is supported by a science advisory panel.</p>
<p>Australian Meteorological and Oceanographic Journal</p>	
<p>Greenpeace Research - Staff</p>	<p>No one knows how much warming is "safe". What we do know is that climate change is already harming people and ecosystems. Its reality can be seen in melting glaciers, disintegrating polar ice, thawing permafrost, dying coral reefs, rising sea levels, changing ecosystems and fatal heat waves.</p>
<p>Wentworth Group of Concerned Scientists</p>	<p>The focus in climate change policy has centred on reducing greenhouse gas emissions from energy generation, manufacturing and transport, because this is fundamental to any solution to climate change. The science now tells us that it will be next to impossible for nations to achieve the scale of reductions required in sufficient time to avoid dangerous climate change unless we also remove carbon from the atmosphere and store it in vegetation and soils</p>

Global Climate Forum	<p>The Global Climate Forum initiates and performs high-class research on climate change in close interaction with stakeholders. We provide a pluralistic communication platform in the emerging global field of governments, local authorities, businesses, and social movements. This field lies beyond the traditional linkage between academic institutions and the nation state hosting them. It requires a capability to learn from each other in situations where consensus is impossible, perhaps not even desirable. As a key requisite for addressing the climate challenge in this spirit, GCF contributes to a new economic theory that will enhance our capability to manage climate risks.</p>
Planet Under Pressure 2012	
Beijer Institute Conference Villach and Bellagio 1987	

Climate Policy	
Goddard Institute for Space Science	A key objective of GISS research is prediction of atmospheric and climate changes in the 21st century.
National Oceanic and Atmospheric Administration	and above all the pervasive effects of climate change on society and the environment... we can navigate our way toward a future where people, communities, and ecosystems prosper and are resilient in the face of change.
German Advisory Council on Climate Change	monitor and assess national and international policies for the achievement of sustainable development, elaborate recommendations for action and research and raise public awareness and heighten the media profile of global change issues.

Climate Research Unit	one of the world's leading institutions concerned with the study of natural and anthropogenic climate change.
ANU Institute of Climate Change	Our mission is to contribute to climate change solutions through innovative, interdisciplinary approaches to research and teaching, drawing on the wealth of expertise across the University's seven colleges, and to connect our work to governments, the private sector and civil society.
Doctors Against Heartland 2012	Statement from climate scientists and health professionals: Call to reveal ALL funding behind climate sceptics
Grantham Research Institute on Climate Change and the Environment	Sustainable Futures, including: the transition to a low-carbon economy, exploring natural mitigation and the potential for carbon storage in ecosystems, and research into policy & market frameworks to support a low-carbon economy,
Australian Climate Commission	The Climate Commission is an independent body set up to provide a reliable and authoritative source of information on climate change, and to help inform the debate on this issue of national significance

Earth System Governance Project	The Earth System Governance Project is the largest social science research network in the area of governance and global environmental change.
National Academy of Sciences 255 Members Letter	There is compelling, comprehensive, and consistent objective evidence that humans are changing the climate in ways that threaten our societies and the ecosystems on which we depend.
International Institute for Applied Systems Analysis	Transformation of the global energy system to achieve a low-carbon world
Friends of Europe	What initiatives can individuals pursue to reduce their carbon footprint
International Conference On The Assessment Of The Role Of Carbon Dioxide Villach 1985	

Hadley Centre	
Science	
US National Academy of Sciences (Environmental sciences and ecology)	A strong, credible body of scientific evidence shows that climate change is occurring, is caused largely by human activities, and poses significant risks for a broad range of human and natural systems
Australian Meteorological Magazine	AMM was the Bureau of Meteorology's house journal
Diversitas	Biodiversity underpins the life-support system of our planet. Both natural and managed ecosystems deliver important ecological services such as the production of food and fibre, carbon storage, climate regulation and recreation opportunities
Climate Institute	Catalyze innovative and practical solutions for climate change adaptation, mitigation, and climate stabilization, contribute to scientific research and communicate the results of that research in an accurate and comprehensive manner

<p>Center for International Climate and Environmental Research Oslo</p>	<p>CICERO's mission is to conduct research and provide reports, information and expert advice about issues related to global climate change and international climate policy with the aim of acquiring knowledge that can help mitigate the climate problem and enhance international climate cooperation</p>
<p>UN Environment Program</p>	<p>Climate change has long since ceased to be a scientific curiosity, and is no longer just one of many environmental and regulatory concerns. As the United Nations Secretary General has said, it is the major, overriding environmental issue of our time, and the single greatest challenge facing environmental regulators.</p>
<p>Guardian Letter 2012-02-18</p>	<p>Climate change is occurring. Human activity is the primary cause of recent climate change. ... Major scientific assessments from the Royal Society, the U.S. National Academy of Sciences, United States Global Change Research Program and other authoritative sources agree on these points</p>
<p>Environmental Defence Fund</p>	<p>Climate No environmental challenge has more potential to alter the world we leave to our children, forever. We're working to reduce the pollution that causes global warming - locally, nationally and globally.</p>

<p>The World Conservation Union</p>	<p>Conserving biodiversity is central to the mission of IUCN. We demonstrate how biodiversity is fundamental to addressing some of the world's greatest challenges: tackling climate change, achieving sustainable energy, improving human well-being and building a green economy.</p>
<p>Peterson Institute for International Economics</p>	<p>Current priority is attached to ... the creation of an international regime to address global warming</p>
<p>Earthwatch Institute</p>	<p>Earthwatch's mission is to engage people worldwide in scientific field research and education in order to promote the understanding and action necessary for a sustainable environment.</p>

<p>National Center for Atmospheric Research</p>	<p>For example, human-induced global climate change has been largely accepted as real, but information about temperature changes are not at a sufficiently fine scale for planning regional adaptation and mitigation.</p>
<p>Global Green Growth Institute</p>	<p>GGGI is dedicated to pioneering and diffusing a new model of economic growth, known as "green growth," that simultaneously targets key aspects of economic performance, such as poverty reduction, job creation and social inclusion, and those of environmental sustainability, such as mitigation of climate change and biodiversity loss and security of access to clean energy and water</p>
<p>International Geosphere-Biosphere Programm</p>	<p>IGBP's vision is to provide essential scientific leadership and knowledge of the Earth system to help guide society onto a sustainable pathway during rapid global change.</p>

<p>Bulletin of the Atomic Scientists</p>	<p>informs the public about threats to the survival and development of humanity from nuclear weapons , climate change, and emerging technologies in the life sciences.</p>
<p>Deutsche Bank Climate Change Advisory Board</p>	<p>It advises the management of Deutsche Bank on strategic issues relating to climate change</p>
<p>Council on Foreign Relations</p>	<p>Leading U.S. policy experts have identified energy and climate change as issues vital to economic and national security.</p>

<p>World Climate Research Programme</p>	<p>Progress in understanding climate system variability and change makes it possible to address its predictability and to use this predictive knowledge in developing adaptation and mitigation strategies.</p>
<p>United Nations</p>	<p>Promoting sustainable development. One of the Secretary-General's first major initiatives was the 2007 Climate Change Summit, followed by extensive diplomatic efforts that have helped put the issue at the forefront of the global agenda.</p>
<p>Woods Hole Research Center</p>	<p>Scientists are agreed about the reality of climate change and the underlying anthropogenic causes, is clear among the scientific community.</p>

<p>Woods Institute for the Environment</p>	<p>Sponsoring research that leads to new solutions to global environmental sustainability issues. Infusing science into policies and practices of the business, government, and NGO communities. Developing strong environmental leaders for today and the future.</p>
<p>Earth Charter Initiative</p>	<p>The Earth Charter is centrally concerned with the transition to sustainable ways of living and sustainable human development</p>
<p>European Climate Forum</p>	<p>The European Climate Foundation aims to promote climate and energy policies that greatly reduce Europe's greenhouse gas emissions and help Europe play an even stronger international leadership role in mitigating climate change.</p>

<p>Green Cross Australia</p>	<p>The mission of GCIAust is to respond to the combined challenges of security, poverty and environmental degradation to ensure a sustainable and secure future.</p>
<p>OpEd supporting US EPA 2012-03-06</p>	<p>The scientific support for the Environmental Protection Agency's conclusion that heat-trapping gases pose a threat to human health and welfare is clear and incontrovertible</p>
<p>University Corporation for Atmospheric Research</p>	<p>Today's greenhouse gases will affect Earth's climate for another hundred years. We're committing ourselves to a long, hot future. How hot depends on how fast we put on the brakes</p>

Climate Central	We are dedicated to helping mainstream Americans understand how climate change connects to them, and arming our audiences with the knowledge they need to make informed decisions about their future.
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