

**OVE HOEGH-GULDBERG**

GLOBAL CHANGE INSTITUTE

UNIVERSITY OF QUEENSLAND

[https://en.wikipedia.org/wiki/Ove\\_Hoegh-Guldberg\\_\(biologist\)](https://en.wikipedia.org/wiki/Ove_Hoegh-Guldberg_(biologist))

[WWW.LINKEDIN.COM/IN/OVEHG](http://WWW.LINKEDIN.COM/IN/OVEHG)

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**NATIONALITY**

Australian (born: 26/9/59, Sydney)

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**EDUCATION**

1989	Ph.D. University of California, Los Angeles (supervisor: Len Muscatine)
1982	B.Sc. (Hons, 1st class) University of Sydney (supervisor: Rosaline Hinde)

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**CURRENT POSITIONS**

Professor of Marine Studies, University of Queensland (2000-present)  
Deputy Director, ARC Centre for Excellence for Reef Studies (2006-present)  
Affiliated Professor in Tropical Marine Biology, University of Copenhagen (2016-present)

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**SIGNIFICANT APPOINTMENTS**

2010–2019	Director and Founder, Global Change Institute, University of Queensland (2010 –2019)
2018-present	World Commission on the Ethics of Scientific Knowledge and Technology (COMEST); Appointed Commissioner by Director-General of UNESCO
2016-2018	Coordinating Lead Author, Chapter 3 (impacts) of the Intergovernmental Panel on Climate Change (IPCC) Special Report on the Implications of the 1.5°C (UN IPCC, Geneva).
2016-2017	Member and drafting author, Preparation of a non-binding Declaration on the Ethical implications of climate change (UNESCO)
2016	Australian Delegate, IPCC Scoping meeting: Special Report on 1.5°C (Geneva)
2016	Australian Delegate, UN IPCC Scoping meeting: Special Report on Oceans/Cryosphere (Monaco)
2013-present	Fellow, Australian Academy of Science
2015-present	Federal Independent Expert Panel on the Great Barrier Reef 2050 (Chaired by Australian Chief Scientist Prof Ian Chubb)
2018-present	Partnership Management Committee, Great Barrier Reef Foundation
2013-2014	Global Partnership for Oceans, Chair, Blue Ribbon Panel (World Bank, major report)
2015-present	GBR Taskforce, water quality (Chair: QLD Chief scientist, Prof Geoff Garret)
2010-2014	Coordinating Lead Author, "The Ocean" Chapter, 5th Assessment Report, Intergovernmental Panel on Climate Change (United Nations, IPCC, Geneva)
2010 – 2014	Affiliated Researcher, Centre for Ocean Solutions, Stanford University
2014-2017	Chair, Technical Advisory Group, Great Barrier Reef Foundation
2012-2017	Chief Scientist, Catlin Seaview Survey ( <a href="http://www.globalreefrecord.org">www.globalreefrecord.org</a> )
2001-2010	Visiting Professor, Stanford University
2001-2010	Director and Founder, Stanford Australia Marine Studies Program
2010-2013	Senior Executive Management Committee, University of Queensland
2006-2012	Member, Board of Reviewing Editors, Science Magazine
2000-2009	Director and Founder, Centre for Marine Studies, University of Queensland
2001-2009	Chair, Climate Change and Coral health working group within CRTR project, Global Environmental Facility -World Bank.
2006-2010	Member, Royal Society, London, Marine Advisory Network (MAN)
2004-2010	Founding Member, Australian Climate Group (now Climate Science Australia)
2000-present:	Member, International Scientific Advisory Committee, GBR Foundation
2004-2007	Member, Royal Society, London, Working Group on Ocean Acidification
2000-2009	Director, Heron Is, Low Isles and Morton Bay Research Stations

## HONORS AND AWARDS

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2020	Australia Day Ambassador (appointed by Queensland Premier)
2019	Highly Cited Researcher (top 1% of field over preceding decade; Clarivate Analytics)
2019	Listed among the 100 most influential people in Climate Policy (Apolitical.co)
2017	Emmy Award winning film 'Chasing Coral' (was Chief Scientific Advisor)
2016	Banksia Foundation International Award
2014	Prince Albert II of Monaco Climate Change Award
2014	American Society of Microbiologists, ASM Lecturer for 2014
2013	ARC Laureate Fellowship (2013-2018)
2008	Queensland 2008 Smart State Premier's Fellow (2008 - 2013)
2011-2014	Highly Cited Researcher (Thomson Reuters, 4 years in a row, 13 HiCi articles)
2010	Thomson Reuters' ISI Highly Cited Researchers (most cited Australian scientist in the area of Climate Change, 3 <sup>rd</sup> most cited internationally; top cited Ecologist)
2009	Whitley Certificate of Commendation for book on Great Barrier Reef
2009	Thomson-Reuters' ISI Hot Paper Award.
2009	Wesley College Foundation (University of Sydney) Medal 2009
1999	The 1999 Eureka Prize for Scientific Research
1996	University of Sydney Teaching Excellence Award
1989	University of California (UCLA) Distinguished Scholar Award

## PROFESSIONAL SOCIETIES AND BOARD MEMBERSHIP (EXAMPLES)

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Magazine (Board of Reviewing Editors, 2006-2012)  
Biodiversity Research Centre Academia Sinica, Taipei (Advisory Board; 2010 - present)  
Leibniz Center for Tropical Marine Ecology, Bremen (Advisory Board; 2010 - present)  
International Symbiosis Society (Governing Councilor, 2004-2010)

## EXAMPLES OF COMMUNICATION AND OUTREACH:

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Ove has worked on numerous film projects with environmental film-makers such as Sir David Attenborough, Richard Smith, and Jeff Orlowski to communicate these key messages from science. Sample links include:

Sir David Attenborough: Death of the Oceans ([https://www.youtube.com/watch?v=dA\\_wlPetTC4](https://www.youtube.com/watch?v=dA_wlPetTC4))  
Sir David Attenborough: The Future Reef, [http://www.attenboroughsreef.com/the\\_future\\_reef.php](http://www.attenboroughsreef.com/the_future_reef.php)  
Jeff Orlowsky: Chief Science Advisor, "Chasing Coral", <https://www.youtube.com/watch?v=b6fHA9R2cKI>  
Joshua Jackson: <https://www.youtube.com/watch?v=kKdva8hzEJM>  
TED talk: Sydney <https://www.youtube.com/watch?v=2ZLVajYliuo>  
ABC Australian Story: <https://www.abc.net.au/austory/australian-story:-into-hot-water/8308500>  
Education series: <https://www.youtube.com/watch?v=JtZwDf6Pkd&t=440s>  
Underwater lectures: <https://www.youtube.com/watch?v=ztKpBI0JUWE>  
Youtube: [https://www.youtube.com/results?search\\_query=Hoegh-Guldberg](https://www.youtube.com/results?search_query=Hoegh-Guldberg)  
The GCI building: (<https://www.youtube.com/watch?v=F0JpgUlcPXY>)  
UQ Solar: GCI project ([https://www.youtube.com/watch?time\\_continue=58&v=S4IaaZ\\_bYwM](https://www.youtube.com/watch?time_continue=58&v=S4IaaZ_bYwM))

## BIOGRAPHICAL SKETCH

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Ove Hoegh-Guldberg was the Director of the Global Change Institute (GCI: [www.gci.uq.edu.au](http://www.gci.uq.edu.au); 2010-2019), Deputy Director of the Centre for Excellence in Coral Reef Studies ([www.coralcoe.org.au](http://www.coralcoe.org.au)), Affiliated Professor in Tropical Marine Biology at the University of Copenhagen (2016-present), and Professor of Marine Science at the

University of Queensland in Brisbane, Australia. Ove's research focuses on the impacts of global change on marine ecosystems and is one of the most cited authors on climate change. In addition to pursuing scientific discovery personally, Ove has had a 20-year history in leading research organisations such as the Centre for Marine Studies and the Global Change Institute, both at the University of Queensland. These roles have seen him raise more than \$150 million in terms of funding for research and infrastructure. Ove is a great believer in the power of transdisciplinary approaches to problem solving and his long history of working across traditional boundaries between academic units and organisations, within the University of Queensland and across the national and international landscape. He has also been a dedicated communicator of the threat posed by ocean warming and acidification to marine ecosystems, one of the earliest to identify the serious threat posed by climate change for coral reefs in a landmark paper published in 1999. In addition to leading a research group at the University of Queensland, he is the Coordinating Lead Author for the 'Oceans' chapter for the Fifth Assessment report of the Intergovernmental Panel on Climate Change (IPCC) and the Coordinating Lead Author on the Impacts chapter of the IPCC Special report on 1.5°C. He has been awarded a Eureka Prize for his scientific research and a QLD Premier's fellowship, and is currently an ARC Laureate Fellow and is member of the Australian Academy of Science. He received the Prince Albert II 2014 Award for Climate Change, and the 2016 International Award from the Banksia Award. He has been recognised as a Highly Cited Researcher again in 2012, 2014, 2018 and 2019 (top 1% of his field, coral reefs: <https://hcr.clarivate.com/#freeText%3Dhoegh>) and was listed among the 100 most influential people in Climate Policy (at Apolitical: <https://apolitical.co/lists/most-influential-climate-100/>).

#### SCHOLARSHIP:

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Ove has been cited over 58,884 times and has produced over 360 peer-reviewed publications (36 in Science, Nature or PNAS) plus 35 peer-reviewed book chapters, research reports and 2 international patents. In 2019, together with P Hutching, M J Kingsford, he was involved in the second edition of the edited book (Hutching, Kingsford and Hoegh-Guldberg, "The Great Barrier Reef", Springer/CSIRO Publishing; winner of a Whitley Award commendation in 2009, with all Royalties from the sales of this book continuing to go to the [Australian Coral Reef Society](#) to fund research students. Papers include major contributions to physiology, ecology, environmental politics, and climate change. Ove's most significant scientific contributions have been recognized recently through invited reviews by leading journals such as Science (Hoegh-Guldberg and Bruno 2010; Hoegh-Guldberg *et al.* 2007; Hoegh-Guldberg *et al.* 2019), major research and infrastructure funding (>\$150 million since 2000; ARC Centre for Excellence, Queensland Smart State Premier's Fellowship; ARC Laureate Fellowship) and his appointment as Coordinating Lead Author of Chapter 30 ("The Oceans") for the 5th Assessment Report, as well as Coordinating Lead Author for Chapter 3 (Impacts) on the special report on the implications of 1.5°C (for the Intergovernmental Panel on Climate Change). He is one of the most cited Australian author (and 3rd internationally out of 53,136 authors) on the subject of "climate change" as per Thomson-Reuter's ISI Web of Science (2011, <http://archive.sciencewatch.com/ana/st/climate/authors/>;) This represents a group of less than 0.5% of all published researchers in the world. Ove received a major award from Thomson Reuters in 2012 (Citation Award Winner in Ecology Thomson Reuters Citation & Innovation Award). Ove's H-index is 80 (ISI 2011) or 105 (Google Scholar) and he have received several awards from Thomson-Reuters ISI Web of Science for papers that are among ISI's hottest paper (most cited over the previous two years) in the both the area of "climate change" and "ocean acidification" (<http://archive.sciencewatch.com/>). Other contributions include over 30 book chapters and refereed reports, and 2 international patents (together A/Prof Sophie Dove) on a novel class of Green Fluorescent Pigments. He has received several major prizes, including the UCLA Distinguished Scholar Award and 1999 Eureka Prize for discovering the molecular mechanism (see below) behind mass coral bleaching and mortality (Hoegh-Guldberg and Jones 1999; Hoegh-Guldberg and Smith 1989a; Hoegh-Guldberg and Smith 1989b) and impact of global climate change on the earth's coral reefs (Hoegh-Guldberg 1999). These early discoveries increasingly focused on the impact of global climate change on the marine ecosystems and the implications for people and societies (Hoegh-Guldberg *et al.* 2009). As part of this, Ove has worked on numerous film projects with environmental film-makers such as Sir David Attenborough, Richard Smith, and Jeff Orlowski to communicate these key messages from science. Recent awards include the Thomson Reuters (Top 12 Australian Scientists), Prince Albert II 2014 Award for Climate Change, 2016 International Award from the Banksia Award, QLD Premier's fellowship, and ARC Laureate Fellow).

## RECENT ADMINISTRATIVE RESPONSIBILITIES

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### INSTITUTE DIRECTOR

Global Change Institute (GCI) began operation in January 2010. Ove was appointed inaugural Institute Director (2010-2019) and was responsible together with his team for building a University Institute focused on providing solutions to the complex interactions and challenges that increasingly face our world. The Institute is currently focused on human impacts on biodiversity and natural ecosystems, climate change impacts on the ocean, renewable energy, sustainable business, as well as food and water security. In its first six years, the Institute attracted a community of 100 researchers and research and infrastructure funding of over \$70 million. Its operation works as a ‘incubator’ model, developing teams of academics around challenges from global change and eventually budding them off as entities in their own right. For example, the highly successful UQ Solar was developed by the GCI and developed one of the largest photovoltaic arrays globally, and a funding model (using electricity savings) that delivered >\$600,000 each year into research associated with the array. This successful operation was moved out of the GCI and into the Faculty of Engineering and Information Technology in 2018 (<https://solar-energy.uq.edu.au/about>). In October 2013, the Institute moved to a new building (funded by \$15m in philanthropic funding (Wood Philanthropies) attracted by Director Hoegh-Guldberg in partnership with UQ Advancement). This building is among Australia’s most sustainable buildings and has been listed as the world’s 34<sup>th</sup> most sustainable building. On an average day, this building generates more energy than it consumes and has also won several awards (and is a six-star, green star listed building, Living Building Challenge). It is considered a centre-piece of the University and is strongly aligned to the University’s philosophy of promoting and living sustainability. GCI also launched Australia’s largest roof-top solar array and are currently constructing a 3.75 MW array at the Gatton campus of UQ. The Institute have also put forward plans to take the carbon footprint of this campus of the University of Queensland to zero over the next 10 years. Institute's vision is to become "an internationally respected source of knowledge for advocating and understanding, solving and addressing the problems of a changing world", and to inspire students, scholars and the general public to solve the global challenges that will face our societies in the coming decades. Our mission is ‘to advance discovery, create solutions, and influence decision makers to position the University of Queensland as a global leader in addressing the challenges of a changing world’.

### INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Ove plays significant role in global science which is exemplified by his invited membership of the United Nation’s Intergovernmental Panel on Climate Change (IPCC) in various capacities including as Coordinating Lead Author (CLA) of the ‘Ocean’ chapter in the fifth Assessment Report (AR5 WGII, 2013-2014, <https://www.ipcc.ch/report/ar5/wg2/>) and CLA for the ‘Impacts’ Chapter of the Special Report on the implications of global warming of 1.5oC (SR1.5; <https://www.ipcc.ch/sr15/chapter/chapter-3/>). Further details concerning these contributions can be found in the publications section of this CV. While Ove volunteers the large amount of time involved, the Australian Government pays his travel and accommodation.

### CENTRE DIRECTOR

Ove began the Centre for Marine Studies with handful of staff and minimal resources in 2000, after being appointed its inaugural Director. By 2009, the Centre had grown to 60 staff members, and over 40 postgraduate and Honours students at its St Lucia hub (annual turn-over of \$6.5 million). The Centre was also responsible Heron Island Research Station, the largest research station on the Great Barrier Reef; Moreton Bay Research Station, a modern facility on North Stradbroke Island in Moreton Bay; Low Isles Research Station, a small station on the inner, northern Great Barrier Reef; a suite of vessels of various capacities; and Pinjarra Aquatic Research Station, an aquaculture facility a few kilometres from the main University campus. As a result, the Centre grew from an annual budget of under \$2 million to over \$6.5million per year, from a staff and student body of 12 to over 90 people. During that time, Ove was responsible for attracting major funding for the infrastructure associated with the Centre (e.g. \$6.5 million, systemic infrastructure) and have brought major research initiatives to the Centre (e.g. GEF-WB-IOC project; \$28 million; 2004-2008, to be coordinated by UQ: [www.gefcoral.org](http://www.gefcoral.org)). In 2005, Ove was a

founding partner (along with Prof Terry Hughes, JCU, and Prof Malcolm McCulloch, UWA) of the ARC Centre of Excellence bid (>\$60 million, 2005-2019). The three research stations at the University of Queensland were completely refurbished under his period as Director (funding attracted by Ove from the Federal government; \$10.2 million), with the three stations experiencing rapid growth in research, teaching and engagement activities

### **DIRECTOR, STANFORD AUSTRALIA PROGRAM (STANFORD UNIVERSITY)**

With an active interest in establishing new milestones for marine education, Ove conceived of and developed a Great Barrier Reef based study program at Stanford University, which began in 2001 and is currently in its 18th year. Ove was the Program's Director up until 2010, responsible for five full-time courses that run out of the Centre – and directly taught and coordinated two of the courses involved (Coral Reef Ecosystems and Targeted Research Project). In addition to coordinating the Program, Ove gave lectures, ran field exercises and perform assessment on the 48 students that enter the program each year – and was also responsible for the development of new subject areas and continued program development in association with the Overseas Study Program at Stanford University. The Australia Coastal Program continues to be one of the most popular programs run by Stanford University.

### **CHAIR, GEF CORAL BLEACHING TARGETED RESEARCH GROUP**

The Intergovernmental Oceanographic Commission (IOC) and World Bank Coastal Program established the Global Coral Reef Targeted Research and Capacity Building Project in 2000. As part of this, Ove chaired one of six expert groups that focused on coral bleaching and related ecological factors – coordinating the input from 12 leading scientists, helping establish research plans and setup budgets. As part of his duties, he also represented this group on the Project Synthesis Panel. This project attracted over \$40 million (USD) from the Global Environment Facility (GEF), World Bank, NOAA and other partners (e.g. NOAA, UQ). Professor Hoegh-Guldberg played a significant role in crafting the strategy behind this project, including writing the document “Four Oceans” and being lead author on the document that set out the management of the execution of the project. The latter led to the University of Queensland being selected to coordinate the first five-year phase of the project. Total funding for this project is \$41 million (USD) plus an estimated \$50 million (USD) in other funds during first phase. The second stage of this project (GEF/WB/UQ funded: Capturing Coral Reef Ecosystems Services) started in 2013 and has partnered with Indonesian and Filipino research communities (CCRES, [www.ccres.net](http://www.ccres.net)). It is coordinated by the Global Change Institute.

### **CORAL REEF ECOSYSTEMS LABORATORY (CORALREEF ECOSYSTEMS.ORG)**

Ove has maintained an active research career in the area of marine symbiosis, coral reef ecology, and is responsible for a sizable marine laboratory at the University of Queensland. As part of this, Ove leads a substantial research group that currently holds over \$5 million in funding for the next 4 years, and has been responsible for the supervision to completion of over 65 PhD., M.Sc. and Honours students. Research activity within the Coral Reef Ecosystems group has generated over 350 peer-reviewed publications, 34 book chapters, 2 books and two international patents.

### **FUNDING ATTRACTED (RESEACH, INFRASTRUCTURE) > 2000 > \$150 MILLION.**

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**2017-2019 (\$1.8 million for ‘50 Reefs’ program).** Funded by Bloomberg, Tiffany and Paul G Allen family Foundations. Global strategy for conservation solutions to coral reefs under climate change.

**2005-2020 (\$8.3 million for Hoegh-Guldberg, \$28 million, total refunding)** ARC Centre for Excellence for Coral Reef Studies. Director: Terence Patrick Hughes, Deputy Directors: Ove Hoegh-Guldberg, and Malcolm Thomas McCulloch. Has been operating since 2004 and is now one of the longest running ARC Centre for Excellence.

**2013-2018 (\$3 million, ARC Laureate).** Coral reef metabolism in a changing climate (Hoegh-Guldberg)

**2015-2019 (\$12 million)** XL Catlin Seaview Survey. (Hoegh-Guldberg; Chief Scientist, XL Catlin Insurance)

**2014-2018 (\$0.8 million)** XL Catlin Global Reef Record. (Hoegh-Guldberg; XL Catlin Insurance)



**2013-2015 (\$15 million from Wood Philanthropies which was matched by \$17 million from UQ)** Global Change Building. Award-winning building listed as the world's 34<sup>th</sup> most sustainable university building. On an average day, this building generates more energy than it consumes and has also won several awards (and is a six-star, green star listed building, Living Building Challenge).

**2013-2018 (\$42 million)** UQ Solar was developed by the GCI is one of the largest experimental photovoltaic arrays globally which included a funding model (using electricity savings) that has delivered >\$600,000 each year into research associated with the array every year. Transferred to Faculty of Engineering, Architecture and Information Technology Faculty in 2018.

**2011-2014 (ARC Linkage, Industry partners: GBRMPA, NOAA USA: \$10 million, cash; \$10 million in-kind)** Next generation satellite tools for understanding change in coral reef ecosystems due to multiple global and local stressors. Investigator: O. Hoegh-Guldberg and S. Dove. LP110200874

**ARC Super Science project (FS100100024; \$555,000, 2010-2013)** Treading water in a changing climate: The vulnerability of Australia's tropical islands to sea level rise, led by Professor Hoegh-Guldberg in collaboration with colleagues at UQ and the University of Wollongong. This project will directly benefit the people and businesses associated with 1174 tropical islands found in Great Barrier Reef and Torres Strait waters. By bringing together a multi-disciplinary team and training young Australian researchers, this project will establish an integrated research program that will outline the challenges, and develop the solutions, that will be needed for Australians to cope with rising sea levels; and

**ARC Super Science project (FS110200005; \$834,000; 2011-2014)** Adapting to the impacts of sea level rise as a result of rapid climate change, led by Professor Hugh Possingham. Professor Hoegh-Guldberg was responsible for coordinating and writing. Rapid sea level rise has been identified as a major threat to coastal Australia, where most of the Australian population lives. By building capacity and answering many urgent and difficult questions related to the legal, environmental and planning ramifications of sea level rise, this project will prepare communities and policymakers for the difficult times ahead.

**ARC Super Science project (FS100100074; \$834,000; 2011-2014)** Led by Janice Lough. The Great Barrier Reef (GBR) is a national and international icon, recognized through its inscription as a World Heritage Area and economic and social value to Australians. Maintenance of the GBR as we know it is now compromised by a rapidly changing climate. Ocean acidification, warming water temperatures and increased freshwater will progressively be detrimental to the fundamental reef-building process of calcification. Informed policy and management strategies in a rapidly changing physical environment require determination, for short and long-time frames, of the regional consequences and impacts of changing reef-building capacity.

**2009-2013 (Queensland Smart State Premier's Fellowship; \$2.6 million; Great Barrier Reef Foundation \$1.4 million)** Ensuring a sustainable future for Queensland through the science-based solutions to climate change on the Great Barrier Reef. Investigator: Hoegh-Guldberg, O.

**2009 LE0989608** Prof O Hoegh-Guldberg; Dr DI Kline; Dr KR Anthony; Dr SG Dove; Prof MT McCulloch; Dr BN Opdyke; Dr JM Lough; Dr PG Brewer; Mr WJ Kirkwood; The Heron Island Climate Change Observatory: An In-Situ Ocean Acidification and Carbonate Chemistry Monitoring Platform. 2009: \$ 190,000ARC

**ARC Linkage (\$1.1 million ARC & \$1.7 million industry, LP0775303 2005-2010)** ARC Linkage grant. New tools for managing ecosystem responses to climate change on the southern Great Barrier Reef. Investigators: Prof Ove Hoegh-Guldberg, Dr Kenneth Roald Nies Anthony, Prof Andrew Bakun, Dr Bradley Charles Congdon, Dr Michael Julian Caley, Dr Sophie Gwendoline Dove, Dr Gene Carl Feldman, Prof Malcolm Lewis Heron, Dr Ronald Johnstone, Dr Andrew K Krockenberger, Dr Laurence John McCook, Dr Alan E Strong, Dr Paul Marshall

**2009-2013 (\$4 million for Hoegh-Guldberg, \$24 million, total)** ARC Centre for Excellence. Prof Terence Patrick Hughes, Dr Kenneth Roald Nies Anthony, Dr Andrew Hamilton Baird, Prof David Roy Bellwood, Dr Sean Richard Connolly, Dr Sophie Gwendoline Dove, Dr Maoz Fine, Prof Carl Folke, Dr Michael Kevin Gagan, Prof Ove Hoegh-Guldberg, Dr Morgan Stuart Pratchett, Dr Geoffrey Paul Jones, Prof Ronald H Karlson, Prof Michael John Kingsford, Dr Janice Mary Lough, Dr Mark Ian McCormick, Prof Malcolm Thomas McCulloch, Dr Mark Meekan, Dr David John Miller, Dr Philip Laing Munday, Dr John Michael Pandolfi, Dr Serge Planes, A/Prof Garry R Russ, Prof Robert Steneck, Dr Roger Hudson Bradbury, Dr Madeleine Josephine van Oppen, Dr Laurence John McCook, A/Prof Bette Lynn Willis, Prof David Yellowlees, Dr Carles Pelejero

**2005-2009 (\$1.9 million, total)** Pitman, A. Earth System Science ARC Network

**2003-2006 (~\$650,000 total):** Tracing the origins of stress in the symbionts of reef-building corals. (ARC Large, DP0346647); Investigators: Prof Ove Hoegh-Guldberg, A/Prof David Yellowlees, Prof William K Fitt, Dr Ruth Deborah Gates, Dr Todd C LaJeunesse.

**2004-2006 (~\$500,000 total):** Solar radiation, coral bleaching and climate change. (ARC Large, DP0453361); Investigators: Prof Ove Hoegh-Guldberg, A/Prof Manuel Nunez, Dr Maoz Fine, Mr Alan E Strong, Dr Kenneth Roald Nies Anthony, Dr Roberto Iglesias-Prieto

**2004-2006 (~\$300,000 total):** Ecology, physiology and molecular microbiology of coral disease on the Great Barrier Reef. (ARC Linkage, LP0453609); Investigators: Prof Ove Hoegh-Guldberg, Dr Ross Jeremy Jones, A/Prof Linda Louise Blackall, Dr Maoz Fine, Dr John Bythell

**2002-2006 (~\$900,000 total):** Vision and remote sensing: using nature's technology to examine the health of The Great Barrier Reef and Moreton Bay. (ARC Linkage, LP0214956); Investigators: Dr Justin Nicholas Marshall, Prof Ove Hoegh-Guldberg, Dr William Cullen Dennison, Dr Stuart Ross Phinn, Prof John Douglas Pettigrew, Dr David Ian Vaney, A/Prof Shaun Patrick Collin, Dr Kim Bryceson, Dr J Zeil, Dr Marilyn Ball

**2005-2007 (~\$450,000 total):** Long-term changes in Mackay Whitsunday water quality and connectivity between coral reefs and mangrove ecosystems. (ARC Linkage, LP0560896); Investigators: **Prof Ove Hoegh-Guldberg**, Prof Malcolm Thomas McCulloch, Prof Robert B Dunbar, Dr Laurence John McCook, Dr David Bruce Haynes

**2005 (\$3.5 million):** Smart State Research Facilities Funding for a Queensland Marine Science Centre; Hoegh-Guldberg authored this grant that led to funding for GEF project infrastructure at St Lucia (\$2.55 million), Heron Island (0.5 million) and Orpheus Island (\$0.45 million).

**2004-2008 (\$28.0 million):** Global Coral Reef Targeted Research and Capacity Building Project. Global Environment Facility and World Bank. Administered directly by the University of Queensland. The involvement of the University in this project arose as follows. I was chosen to chair an international working group on coral bleaching that was funded by the Intergovernmental Oceanographic Commission of UNESCO project in 2000. Soon afterwards, a World Bank representative (Andrew Hooten) approached the IOC-UNESCO group with the idea of approaching the Global Environment Facility for a broader based project on coral reefs, environmental change and coastal management. Our group joined this project proposal as the first of six expert groups. Hoegh-Guldberg was the principal author of concept documents that drive the project ("Four Oceans" and "PEA at UQ concept"). He also evolved the concept of the University becoming the Project Executing Agency.

**2002-2005 (\$10.7 million; \$6.5 million for research stations at UQ):** Systemic infrastructure grant (DETYA). MARINE RESEARCH AND EDUCATION NETWORK. 2002-2005 – Hoegh-Guldberg was principal author and wrote the successful bid with some help from MJ Kingsford at JCU as co-author. Was submitted through JCU to enable the remote campus issue to be highlighted as much as possible.

**2005 (ARC infrastructure: Total \$990,000):** ARC LEIF LE0453998 HF radar facility for oceanography in the Great Barrier Reef, Heron, Hoegh-Guldberg, Skirving and Willis. Successful bid to build High Frequency Radar Facility for understanding wave and current patterns in the Capricorn-Bunker group of islands.

**2002-2004 (\$80,000)** Edmunds; P. J., Gates; R. D., Hoegh-Guldberg, O. Global climate change and coral recruitment: the interactive effects of temperature and ontogeny on the biology of *Porites astreoides* larvae NOAA/NURP/NURC, 10/1/2002-9/31/2004

**2001-2003: (~\$230,000 total):** The structure and function of the host pigments of reef-building corals. (ARC Large, A00106021); Investigators: Dr Sophie Dove, Prof Ove Hoegh-Guldberg

**2001-2003 (~\$400,000 total):** The development of Pulse Amplitude Modulated (PAM) chlorophyll fluorometry as a management tool for non-intrusive sublethal stress assessment in corals of the Great Barrier Reef. (ARC Linkage, C00002489); Investigators: Dr Ross Jeremy Jones, A/Prof Ove Hoegh-Guldberg, Mr David Haynes, Mr Ken Ronald Nies Anthony, Mr Raymond Wiebe Berkemans, Dr Jamie Oliver, Mr Jon Edward Brodie, Mrs Angela Maria Hesse, Dr Graeme Edward Batley

**2000-2002 (~\$300,000 total):** The role of physiological energetics in defining niche boundaries of corals on turbid reefs. (ARC large, A00105071); Investigators: Dr Kenneth Roald Anthony, A/Prof Terence Patrick Hughes, Dr Bette Lynn Willis, Prof Ove Hoegh-Guldberg

**2000-2002 (~\$180,000 total):** Reef studies of larval settlement competency periods, dispersal potential, and survivorship of juvenile scleractinian reef corals. (ARC small; A00000950); Investigators: Dr Peter Lynton Harrison, Prof Ove Hoegh-Guldberg

**2000-2002 (~\$300,000 total):** The diversity of symbiotic dinoflagellates from Australian reef-building corals. (ARC Large, A10009205); Investigators: Dr Ove Hoegh-Guldberg, Dr Diedre Anne Carter, Dr Robert K Trench, Dr Robert G Rowan

**2000-2002 (~\$330,000 total):** The molecular mechanism of bleaching in reef-building corals. (ARC Large, A10009109); Investigators: Dr Ove Hoegh-Guldberg, Prof Anthony William Larkum, Prof Murray Ronald Badger, Dr Linda Ann Franklin, A/Prof David Yellowlees

**2000 (ARC infrastructure: \$561,132; Total \$960,000):** Advanced Bio-Imaging Capability for the Regional Facility for Microscopy and Microanalysis. (ARC large infrastructure, R00002784); Investigators: Prof Anthony Ronald Moon, Prof Colin Sheppard, Prof Robert Lindsay Raison, Dr Guy Christopher Cox, Dr Donald Keith Martin, Prof Max Bennett, Dr Matthew Ronald Phillips, A/Prof Robyn Lynette Overall, Prof Basil Don Roufogalis, Dr Nicholas Charles Smith, A/Prof Ove Hoegh-Guldberg, Dr Maria Byrne, A/Prof Robert Sowerby Armstrong, A/Prof Greg Goodman.

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**EXAMPLES OF KEY RESEARCH COLLABORATORS AND COAUTHORS WITH HOEGH-GULDBERG LAB (KEY EXAMPLES, SEE PUBLICATIONS FOR FULL LIST)**

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Dr Eugenia Sampayo, University of Queensland

Dr David Kline, Scripps Institution of Oceanography, UCSD

Paul A Marshall, Director, Reef Ecologic.

Prof. Mauricio Rodriguez-Lanetty, Assistant Professor of Biological Sciences, Florida International University

Prof. John Bruno, Professor, Department of Biology, UNC Chapel Hill

Dr Tracy D Ainsworth, Associate Professor, Scientia Fellow, The University of New South Wales, Australia

Dr Ross Jones, Australian Institute of Marine Science (Perth)

Prof. John Pandolfi. Professor of Marine Science, University of Queensland

Prof. Dee Carter, University of Sydney

Prof. Alasdair Edwards, Newcastle University

Prof. Guillermo Diaz-Pulido, Griffith University, School of Environment

Prof Morgan Pratchett, James Cook University

Dr Mark Prescott (La Trobe University, Australia)

Dr Todd LaJeunesse (University of Georgia, USA)

Dr Steve Palumbi (Stanford University)

Dr Bill Fitt (University of Georgia, USA)

Dr Rob van Woesik (Florida Institute of Technology, USA)

Dr Michael Kuhl (University of Copenhagen, Denmark)

Dr Ruth Gates (Hawaii Institute of Marine Biology, USA)

Dr Manuel Nunez (University of Tasmania, Australia)

Dr John Bythell (University of Newcastle, UK)

Dr Ken Caldiera (Stanford University, USA)

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## RESEARCH TEAM MEMBERS

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The research pursued and supervised by Ove is powered by an exciting group of students and scholars with interests spanning the following topics: ocean warming and acidification, evolution, physiology, biochemistry and molecular biology of plant-animal symbioses, coevolution, biology of hermatypic corals, calcification, coral bleaching, climate change, invertebrate larvae, physiology/biochemistry of larval development. The following people are currently members of my research group.

### Post-graduate students (finished in 2018-19):

Ms Anjani Ganese  
 Ms Catherine Kim  
 Ms Kristen Brown  
 Mr Dominic Bryant  
 Ms Veronica Radice  
 Mr Norbert Englebert  
 Ms Michelle Achlatis  
 Mr Rene van der Zande

### Post-doctoral and research fellows (current):

Dr Alberto Rodriguez-Ramirez  
 Dr Hawthorne Beyer

### Post-doctoral fellows (last 15 years):

Dr William Leggat,  
 Dr Saki Harii,  
 Dr William Loh,  
 Dr Eugenia Sampayo  
 Dr Mauricio Rodriguez-Lannetty  
 Dr Tyrone Ridgway  
 Dr Nela Rosic  
 Dr Paulina Kaniewska  
 Dr Dan Franklin,  
 Dr Selina Ward  
 Dr Pim Bongaerts  
 Dr Manuel González-Rivero  
 Dr Alberto Rodriguez-Ramirez  
 Dr Julie Vercelloni  
 Dr Hawthorne Beyer  
 Dr Emma Kennedy  
 Dr Vanessa Hermanan  
 Dr Guillermo Pulido-Diaz  
 Dr Emma Kennedy  
 Dr. Maoz Fine  
 Dr Ben Neal  
 Dr. Christine Schoenberg  
 Dr Uli Siebeck  
 Dr Oren Levy  
 Dr Scarla Weeks (Senior Research Fellow)  
 Dr Mathieu Pernice  
 Dr Linda Tonk  
 Dr Olga Pantos  
 Dr Simon Dunn (Senior Research Fellow)  
 Dr Dorothea Bender  
 Dr Andreas Kubicek

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STUDENTS/POSTDOCS: > 65  
 RESEARCH FELLOWS & HONS-  
 PHD STUDENTS SINCE 2000

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RESEARCH PUBLICATIONS (>350 PEER-REVIEWED JOURNAL ARTICLES)

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**Clarivate Analytics:**

Sum of the Times Cited	38,428
Sum of Times Cited without self-citations:	36,989
Citing Articles:	24,685
Citing Articles without self-citations:	24,424
Average Citations per Item:	117.16
H-index:	80

**Google Scholar:**

Sum of the Times Cited:	58,884
Average Citations per Item:	69.47
H-index:	105
i10-index	311

**Clarivate Analytics:** 13 Hoegh-Guldberg articles are in the highly cited category.

**Highly cited author for the following years:** 2001, 2014, 2015, 2018, 2019

**Hoegh-Guldberg is ranked** in the top 0.01% of all scientists based on impact. Among 7 million authors with at least 5 papers (and 35 million with at least one paper), Hoegh-Guldberg is ranked 2,020 for all-career and 993 for single recent year impact (Ioannidis et al. 2019, A standardized citation metrics author database annotated for scientific field. *PLoS biology*, 17(8), p.e3000384.) <https://data.mendeley.com/datasets/btchxktzyw/1>

**Hoegh-Guldberg was named one of the world's top 100 most influential people in climate policy** by Apolitical, joining natural historian [David Attenborough](#), Greta Thunberg, former United States of America vice-president [Al Gore](#) and many others (March 2019<sup>[32]</sup>).

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2019(TO DATE)

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### INVITED SYMPOSIA, ABSTRACTS AND PRESENTATIONS (EXAMPLES)

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1. **Hoegh Guldberg, O. (2016)** Towards COP22: African Ministerial Conference on Ocean Economies and Climate Change, World Bank Group, Mauritius (Nov, 2016)
2. **Hoegh Guldberg, O. (2016)** Oceans and climate change: Crunch time for coral reefs? Kathryn Fuller Plenary Lecture. WWF, Washington DC (Oct 20, 2016)
3. **Hoegh Guldberg, O. (2016)** Climate change, Paris, coastal planning and what just happened last week. Keeble Lecture: Planning Institute of Australia, Brisbane (Nov 7, 2016)
4. **Hoegh Guldberg, O. (2016)** Meeting the challenges of change: The Great Barrier Reef Marine science and climate change: Australian-Indonesian Science Symposium, Australian Academy of Science, Canberra (Nov 29-30)
5. **Hoegh Guldberg, O. (2016)** COP21+1: The Paris climate change agreement, one year on: transition to low carbon economy, where does Australia stand? French Australian Chamber of Commerce (Nov 11, 2016)

6. **Hoegh Guldberg, O. (2016)** Emptying the treasure chest: The Great Barrier Reef, Biomimetics and Climate Change. Invited plenary: International Mesosstructured Materials Symposium, Brisbane Convention Centre Brisbane, August 20, 2016
7. **Hoegh Guldberg, O. (2016)** Rough seas ahead? Oceans, coasts and climate change Invited lecture: Australian Embassy, Jakarta (Aug 25, 2016)
8. **Hoegh Guldberg, O. (2016)** Restoring the ocean economy: meeting the challenge of global change. Invited lecture: Business School, University of Jakarta, Jakarta (Aug 26, 2016)
9. **Hoegh Guldberg, O. (2016)** Climate Change and the Great Barrier Reef. Qantas employee association, Brisbane, August 27, 2016
10. **Hoegh Guldberg, O. (2016)** Grappling with a changing ocean: Coral reefs, people and COP21 (Paris) agreement. Invited talk, Bremen Earth and Social Science (BEST) talks: Bremen, Oct 27, 2016.
11. **Hoegh Guldberg, O. (2016)** Opening plenary: The Ocean, People and Ecosystem Health: Challenges and solutions in a changing world. One Health Congress & The 6th Biennial Conference of the International Association for Ecology and Health. Dec 4, 2016
12. **Hoegh Guldberg, O. (2016)** Plenary at the Scoping Meeting for the IPCC Special Report on Climate Change and Oceans and the Cryosphere, Dec 5-9 2016. Monte Carlo, Monaco;
13. **Hoegh Guldberg, O. (2016)** Temporal patterns of coral cover on the far northern Great Barrier Reef in response to mass bleaching stress and strong cyclones. Presentation to Department of Energy and the Environment, Canberra, Nov 28, 2016
14. **Hoegh Guldberg, O. (2016)** Introduction to public forum: Marine science and climate change: an Indonesian and Australian perspective. Australian-Indonesian Science Symposium; Australian Academy of Science, Canberra (Nov 28, 2016)
15. **Hoegh-Guldberg, O. (2014)** “State of the Science: Impacts of Ocean Acidification”; invited by US Secretary of State John Kerry to address “Our Ocean” summit at State Department in Washington DC (June 17, 2014).
16. **Hoegh-Guldberg, O. (2014)** “Positioning the Ocean within the Global Action Landscape”, Opening plenary at the Global Ocean Action Summit, The Hague (April 22, 2014)
17. **Hoegh-Guldberg, O. (2014)** “Climate Change and the Unravelling of Microbial Partnerships in the Ocean”, opening Plenary (as ASM Lecturer for 2014) for the American Society of Microbiologists, Boston (May 17, 2014).
18. **Hoegh-Guldberg, O. (2013)** Climate change in the ocean: where, how much and at what consequence? Alfred Wagner Institute, (October, 2013)
19. **Hoegh-Guldberg, O. (2013)** The Global Climate Challenge: Design Specifications for the 21st Century, Sustainable Minerals Institute, (Nov 22, 2013)
20. **Hoegh-Guldberg, O. (2013)** The Catlin Seaview Survey: a race against time; Catlin CEO conference, Singapore (May 15 2013)
21. **Hoegh-Guldberg, O. (2013)** The Catlin Seaview Survey: a race against time; Catlin CEO conference, London (August 21 2013)
22. **Hoegh-Guldberg, O. (2013)** The Catlin Seaview Survey: a race against time; Catlin CEO conference, Bermuda (September 13 2013)
23. **Hoegh-Guldberg, O. (2013)** The Catlin Seaview Survey: A race against time; Catlin CEO conference, Turks and Caicos (November 13 2013)

24. **Hoegh-Guldberg, O. (2013)** Coral Reefs in a rapidly changing climate: Going, going, gone? ARC Centre for Excellence conference. Coral Reefs in the 21st Century – Townsville, 2013.
25. **Hoegh-Guldberg, O. (2013)** Saving the Planet one Ocean at a Time, BrisScience, Brisbane City Hall, 2013.
26. **Hoegh-Guldberg, O. (2013)** Why should we worry about the Ocean? Plenary: Northeastern University, May 23 2013: Sustaining Coastal Cities
27. **Hoegh-Guldberg, O. (2013)** Opening plenary: Ecology, coral reefs and the human heart: meeting the challenge of climate change. Aug 20: INTECOL 2013 Into the next 100 years, London
28. **Hoegh-Guldberg, O. (2012)** Thomson Reuters Citation & Innovation Awards, Canberra. One of two award winners to address Press Club, Canberra (May 30, 2012)
29. **Hoegh-Guldberg, O. (2012)** Coral reefs in the rapidly changing climate: going, going, gone? Nobel Conference, October 3, Gustavus Adolphus College, Minnesota USA
30. **Hoegh-Guldberg, O. (2012)** Coral reefs and global climate change: Where do the solutions lie? Key Note Address, International Coral Reef Symposium, Cairns, July 5 2012.
31. **Hoegh-Guldberg, O. (2012)** Coral reefs and climate change: adapt or mitigate, what is more expensive? Australian Rivers Institute, Oct 2012
32. **Hoegh-Guldberg, O. (2012)** Climate change, ocean acidification and the future of coral reefs: One Perspective: What's next in research? Great Barrier Reef Marine Park Authority, Public lectures, Aug 9, Reef HQ, Townsville
33. **Hoegh-Guldberg, O. (2012)** Virtual diving. Invited TEDx Sydney talk (May 27, 2012)
34. **Hoegh-Guldberg, O. (2011)** Understanding future impacts of rapid ocean warming and acidification on the carbonate balance of coral reefs. Invited key note: American Geophysical Union annual meeting, San Francisco
35. **Hoegh-Guldberg, O. (2011)** Coral reefs, anthropogenic stressors and climate change. Nov 1 Key note to "ZMT symposium: Ocean acidification: A problem in the tropics?". University of Bremen, Germany
36. **Hoegh-Guldberg, O. (2011)** Invited Keynote: In hot water: The future of Australia's marine resources in a warm and assertion. Conference: Four Degrees or More? Australia in a hot world. July 12, Sidney Myer Centre, Melbourne.
37. **Hoegh-Guldberg, O. (2011)** Invited talk, Asian-Pacific in the spotlight: climate change, coasts and people. Launch of Children Health and Environment Program, Aug 7, Royal Children's Hospital, Herston Campus.
38. **Hoegh-Guldberg, O. (2011)** Ocean planet: Understanding, living and meeting the challenges of a changing world, Peter Doherty Lecture, Indooroopilly State High School, Aug 12, 2011 (also filmed and made into an episode of ABC catalyst).
39. **Hoegh-Guldberg, O. (2011)** Climate change: The Conservation Challenge for Marine Resources and People in the Pacific Keynote address – Fijian Conservation Society Annual meeting. Sep 16, 2011
40. **Hoegh-Guldberg, O. (2011)** " Large-scale change in marine ecosystems" World Forum on the Environment and Enterprise, Oxford University, June 30, 2011. Invited by Sir David King
41. **Hoegh-Guldberg, O. (2011)** " The Global Ocean: Climate Change, blue economics, and essential ecological services. Can we live without them? The World Bank, June 23 2011.
42. **Hoegh-Guldberg, O. (2011)** "Climate change and the Coral Triangle" International Conference on Biodiversity and Climate Change, Manila, Philippines (Feb 1, 2011)

43. **Hoegh-Guldberg, O. (2011)** "Climate change and the future of the Great Barrier Reef." Invited keynote talk, Greenhouse 2011.
44. **Hoegh-Guldberg, O. (2011, by video)** "Climate change and coral reef ecosystems". I International Programme on the State of the Ocean, the Royal Society and the Zoological Society of London (July 6, 2011)
45. **Hoegh-Guldberg, O. (2011)** Climate change, coastal biodiversity, and people: The folly of false optimism. Invited keynote, Biodiversity Research Centre Academia Sinica, Taipei. (March 24, 2011)
46. **Hoegh-Guldberg, O. (2011)** "Scaling up from experimental responses" , Invited address, IPCC, 11-14 January WGII AR5 First Lead Authors Meeting – Okinawa, Japan
47. **Hoegh-Guldberg, O. (2011, by video)** "The Coral Reef Story". Workshop on ocean acidification for teachers; Committee on Education of the European Geosciences Union (EGU; June 24, 2011)
48. A. Redondo-Rodriguez, S.J. Weeks, R. Berkelmans, J.M. Lough, C. Steinberg, **O. Hoegh-Guldberg**, Implications of climate change for the oceanography of the Great Barrier Reef ecosystem [abstract]. In: Marine and Tropical Sciences Research Facility 2009 Annual Conference; 2009 Apr 28-30; Townsville, Queensland: MTRSF: 2009, P 50.
49. **Hoegh-Guldberg, O. (2010)** "The Coral Triangle Alliance." Senior Officials Meeting, CTI, Manado, Indonesia November 2011. Invited by Indonesian Minister Fadel Muhammad, Fisheries and Marine Affairs to address meeting.
50. **Hoegh-Guldberg, O. (2010)** "The impacts of climate change on world's marine ecosystems." NCCARF, Brisbane, September 2010
51. **Hoegh-Guldberg, O. (2010)** "Climate change and its impact on ocean ecosystem function." Potsdam, Germany September 10, 2010
52. **Hoegh-Guldberg, O. (2010)** "Climate change and marine ecosystems: have dangerous changes already begun?", Oxford University, September 6, 2010
53. **Hoegh-Guldberg, O. (2010)** "Climate change and the global ocean - have we gone too far?" ISME-13 STEWARDS OF A CHANGING PLANET, Seattle Washington, August 26, 2010
54. **Hoegh-Guldberg, O. (2010)** "Our Changing Oceans: evidence, implications and ramifications" Stanford University, August 18, 2010
55. **Hoegh-Guldberg, O. (2010)** "Ocean acidification: unraveling the complexities of its impacts on coral reefs", Shine Dome, Canberra, 7 Oct 2010
56. **Hoegh-Guldberg, O. (2009)** "Coral reefs, symbiosis and Koyaanisqatsi." June 27 Invited speaker, Archilife Research Foundation, Tapei, Taiwan
57. **Hoegh-Guldberg, O. (2009)** "Oceans of Change: Why we must achieve firm action on CO2 emissions in Copenhagen." June 23 Invited Speaker, Australian Education International, Tapei, Taiwan.
58. **Hoegh-Guldberg, O. (2009)** "Coral reefs, evolution and climate change." Workshop: Responses of Coral Holobionts under the Impact of Climate Change: Symbiont Diversity, Coral Bleaching, Diseases, and Ocean Acidification; June 23 Invited speaker. Tapei, Taiwan
59. **Hoegh-Guldberg, O. (2009)** "Coral reefs and climate change: Is there any hope for coral reef ecosystems?" Workshop: Responses of Coral Holobionts under the Impact of Climate Change: Symbiont Diversity, Coral Bleaching, Diseases, and Ocean Acidification. June 22, Plenary speaker. Tapei, Taiwan
60. **Hoegh-Guldberg, O. (2009)** Coral reefs in a rapidly heating and acidifying global ocean: reasons for hope and strategies for survival. World Ocean Congress, Manado, Indonesia (May 11-15, 2009)

61. **Hoegh-Guldberg**, O. (2009) "450 ppm or bust: Copenhagen, climate change and the future of the earth's biosphere." Invited speaker, Woods Institute, Stanford University.
62. **Hoegh-Guldberg**, O. (2009) "Climate change and our climate" Invited speaker, Blue Visions Summit, Washington DC, March 2009.
63. **Hoegh-Guldberg**, O. (2009) "The Coral Reef Crisis", Invited lecture to EarthStock Day at Stony Brook University, New York, USA.
64. **Hoegh-Guldberg**, O. (2009) "Coral reefs and Rapid Climate Change: Impacts, Risks and Implications for Tropical Societies." International Scientific Congress on Climate Change, University of Copenhagen, March 12-14 2009.
65. **Hoegh-Guldberg** O (2008) Coral reef ecosystems, climate change and human societies. Key Note Address to the World Bank's Environment Sector Board, Washington DC, USA.
66. **Hoegh-Guldberg** O (2008) Keynote address "Coral reefs and global change". AAAS Annual Meeting in Boston on "Global Interactions between Climate Change and Microbial Activity." Boston MA, USA
67. **Hoegh-Guldberg** O (2008) "Coral reefs and ocean acidification." Invited lecture given as part of the public symposium "What's Killing the Coral Reefs?" at the Marian Koshland Science Museum Coral Reefs Program Washington DC, USA
68. **Hoegh-Guldberg** O (2008) Invited keynote address. "Climate change, coral bleaching and the future of the world's coral reefs." International Symposium on the Effects of Climate Change on the World's Oceans, Gijón, Spain May 19-23, 2008
69. **Hoegh-Guldberg** O. Invited Key Note speech for opening of King Abdullah University of Science and Technology (KAUST) Symposium 2008 - "The Sustainability of Coral Reefs Faced by Unprecedented Environmental Change", Jeddah, Saudi Arabia
70. Schuttenberg, H., C. Corrigan, L. McLeod, P. Marshall, N. Setiasih, D. Obura, O. **Hoegh-Guldberg**, B. Causey, M. Drew, L. Hansen, G. Grimsditch, J. West, A. Skeat, M. Eakin, L. McCook, M. Crawford, P. Kramer and S. Campbell, 2007. "Building resilience into coral reef management: Key findings & recommendations," In ICRAN and ICRI. 2007. Proceedings of the 3rd International Tropical Marine Ecosystems Management Symposium (ITMEMS3), Cozumel, Mexico, 16-20 October 2006. ICRI and ICRAN, Cambridge, UK.
71. Stacy Jupiter, Guy Marion, George Roff, Meegan Henderson, Verena Schrameyer, Ove **Hoegh-Guldberg** (2007) Linkages between coral assemblages and coral-based proxies of terrestrial exposure along a cross-shelf gradient of the Great Barrier Reef. Annual Australian Coral Reef Society Conference, Fremantle, Western Australia.
72. Marion GS, **Hoegh-Guldberg** O., McCulloch MT, Mucciarone DM, Dunbar RB (2006). Isotopes ( $\delta^{15}\text{N}$ ) in coral skeleton: A proxy for historical Great Barrier Reef water quality. Annual Australian Coral Reef Society Conference, Mission Beach, QLD.
73. **Hoegh-Guldberg**, O. (2006) Climate Change and Coral Reefs: Time frames, growing risk and indecision, National University of Mexico, Mexico, December 11, 2006.
74. **Hoegh-Guldberg**, O. (2006) Global Warming and Coral Reefs: All over, except for the singing? University of Texas, Texas, November 21, 2006.
75. **Hoegh-Guldberg**, O. (2006) Coral Reefs and Environmental Change: Workshop for Cook Islands Government, University of Queensland, CRTR GEF Program, September 11, 2006.
76. **Hoegh-Guldberg**, O. (2005) The Great Barrier Reef – at risk? Plenary talk at the Davos leadership retreat, Hayman Island Resort, August 26, 2006.



77. **Hoegh-Guldberg, O.** (2006) Global ideas and networks: Opportunities and challenges in the international science arena. Plenary talk at INORMS Internationalization of Research Conferences, Brisbane Convention Centre, August 23, 2006.
78. **Hoegh-Guldberg, O.** (2006) Sustaining the Marine Environment, Pioneering a sustainable Queensland Talk Series, Queensland Museum, May 31, 2006.
79. **Hoegh-Guldberg, O.** (2006) Chairman's Panel, leadership retreat on Coral Reefs, Orpheus Island, May 24, 2006.
80. **Hoegh-Guldberg, O.** (2006) Great Barrier Reef Research Foundation dinner, Dinner address to Board, Customs House, Brisbane, May 11, 2006.
81. **Hoegh-Guldberg, O.** (2006) Address to Rio Tinto Board on Coral Reefs and Climate Change, Rio Tinto, May 10, 2006.
82. **Hoegh-Guldberg, O.** (2006) IOC-UNESCO Working Group on Coral Bleaching and Related Ecological Factors (Bleaching Working Group). Opening talk at UNESCO-IOC, Paris, April 10, 2006.
83. **Hoegh-Guldberg, O.** (2006) Coral Reefs and climate change – prognosis? SEB Conference / Thermal Biology of Coral Reefs, University of Kent, Canterbury, April 5, 2006.
84. **Hoegh-Guldberg, O.** (2006) The Great Barrier Reef and Climate Change, UNESCO conference on climate change and World Heritage sites, UNESCO headquarters, Paris, March 15, 2006.
85. Lawton, A, **Hoegh-Guldberg, O** (2006) the effect of temperature on the photosynthetic and respiration rate of reef building corals. ACRS conference, Abstract.
86. Ainsworth, TD, **Hoegh-Guldberg, O** (2006) Pathology and Microbial Ecology in Coral Disease and Bleaching. ACRS conference, Abstract.
87. Marion, GS, **Hoegh-Guldberg, O**, Jupiter, SD, McCulloch, MT (2006) Coral isotopic records ( $\delta^{15}\text{N}$ ) of unprecedented land-use stress in Great Barrier Reef coastal communities. ACRS conference, Abstract.
88. Kaniewska, P., Sampayo, E., Anthony, K., **Hoegh-Guldberg, O.** (2006) Exploring factors affecting within colony light attenuation at macro and micro scale in *Stylophora pistillata*. ACRS conference, Abstract.
89. **Hoegh-Guldberg, O** (2006) Complexities of climate change for coral reefs: what are the key questions? ACRS conference, Abstract. Heron, M.L., **Hoegh-Guldberg, O**, Willis, B, Skirving, W, Steinberg, C, Caley, J, Bayler, J, Colton, M, (2005) HF Ocean Surface Radar as a Monitoring Technique for Coral Bleaching. IAPSO/IABO Abstract August 2005 Cairns, Australia
90. **Hoegh-Guldberg, O.** (2005) Climate change and Australia's coral reefs. Participant in joint workshop on challenges for the Great Barrier Reef at the Davos leadership retreat, Hayman Island Resort, August 2005.
91. Marion GS, Jupiter SD, **Hoegh-Guldberg O**, McCulloch MT (2005). "Mackay Whitsunday quality and coral-mangrove ecosystem linkages since European colonization." The Mackay Whitsunday Healthy Waterway Forum (MWNRM). Keynote Speaker, Sarina QLD.
92. **Hoegh-Guldberg, O.** (2005) Coral reefs in 2050: Life in a warm acid sea. Plenary, Australian Ecological Society, Brisbane, October 2005.
93. **Hoegh-Guldberg, O.** (2005) Challenges for tourism in a warming world. Responding to coral bleaching and climate change. Australian Reef Tour operator's workshop, Cairns, October 2005.
94. **Hoegh-Guldberg, O.** (2005) Coral-algal symbiosis in a changing environment. Invited Seminar, Interuniversity Underwater Institute, Eilat, Israel, June 3, 2005
95. **Hoegh-Guldberg, O.** (2005) Climate change and coral reefs - the burning issues. Invited seminar, Weizmann Centre, Israel, June 3, 2005

96. **Hoegh-Guldberg, O.** (2005) Coral reefs in a warming, acidifying ocean. Invited seminar to Intergovernmental Panel on Climate Change, Canberra, March 13, 2005
97. **Hoegh-Guldberg, O.** (2004) The Great Barrier Reef in the Current Century of Rapid Environmental Change. University of Pennsylvania, October 18, 2004
98. **Hoegh-Guldberg, O.** (2004) Coral Bleaching: A Multinational, Multidisciplinary Program to Address a Critical Global Issue. Invited talk to CZAP, Sydney.
99. **Hoegh-Guldberg, O.** (2004) Targeted Research Program to understand climate change impacts on coral reefs. Invited lunchtime seminar, World Bank, Washington, Oct 18-22, 2004.
100. **Hoegh-Guldberg, O.** (2004) The Great Barrier Reef and Climate Change. Invited seminar to the DAVOS leadership retreat. August 2004.
101. **Hoegh-Guldberg, O.** (2004) Low coral cover in a high CO<sub>2</sub> world. In the special symposium entitled "The Ocean in a High CO<sub>2</sub> World." hosted by IOC-UNESCO and SCOR, Paris, May 2004
102. **Hoegh-Guldberg, O.** (2004) Changing environmental envelopes. Degraded coral reefs or coral reefs off Sydney? Invited seminar at the Great Barrier Reef Water Quality conference, Townsville, March 2004.
103. **Hoegh-Guldberg, O.** (2004) Great Barrier Reef: Coral, climate and the future. Invited speaker at launch of major report. World Fund for Nature, Sydney March 2004
104. Vestergaard, O, **Hoegh-Guldberg, O.**, Unluata, U (2003) Understanding Coral Bleaching Across Four Oceans - Addressing CBD's Specific Workplan On Coral Bleaching Convention of Biological Diversity (CBD), SBSTTA 8, 10-14 March 2003, Montreal,
105. Hoegh Guldberg, O. (2003) Near and long-term strategies for preserving coral reefs. Invited Discussant; 5th International Conference on Environmental Future (5th ICEF) 23-27 March 2003 ETH Zurich, Switzerland
106. Hoegh Guldberg, O. (2003) Invited Plenary and Congress Welcome: Bleaching of coral symbionts: A global threat 4-International Symbiosis Society Congress Programme, August 17, 2003; Halifax, Canada
107. Hoegh Guldberg, O. (2003) The Physiological Ecology of Mass Coral Bleaching. Invited talk at US Coral Reef Task Force Meeting: Coral Reefs, Climate, & Coral Bleaching June 18 – 20, 2003; Turtle Bay Resort Hotel, Oahu, Hawaii
108. Hoegh Guldberg, O. (2003) Climate change and the Great Barrier Reef, Invited talk, Reef Summit 2004, Townsville July 4 2003.
109. Hoegh Guldberg, O. (2003) Wishful thinking or science waiting to be done? Coral reefs, thermal thresholds and climate change. Invited lecture, Australian Institute of Marine Science. February 14, 2003.
110. Hoegh Guldberg, O. (2003) Invited plenary: Climate change and the future of Australia's marine ecosystems. Australian Maritime Engineers annual conference. Nov 2003
111. **Hoegh-Guldberg, O** (2003) Coral Bleaching TRG: Introduction and synthesis. 4th Coral Bleaching Working Group meeting (synthesis and planning), IOC/UNESCO, Paris, 29-31 March 2003
112. Hoegh Guldberg, O. (2002) Coral reefs, thermal thresholds and climate change. Australian Coral Reef Society, Annual meeting, Moreton Bay Research Station, Brisbane, July 2002.
113. Hoegh Guldberg, O. (2002) World Bank/GEF Targeted Research Initiative into coral reefs and climate change - an overview. Australian Coral Reef Society, Annual meeting, Moreton Bay Research Station, Brisbane, July 2002.
114. del Carmen Gómez-Cabrera, M., van Oppen, M., **Hoegh-Guldberg, O.** (2002) Seasonal variations in symbiotic dinoflagellate populations. Australian Coral Reef Society, Annual meeting, Moreton Bay Research Station, Brisbane, July 2002.

115. Hoegh Guldberg, O. (2002) Coral reefs, thermal limits and climate change. Biological Diversity Advisory Committee, 1-2 October 2002 (ANU, Canberra)
116. Johnson, C.R., Dunstan, P.K., **Hoegh-Guldberg**, O. (2002) Predicting the Long Term Effects of Coral Bleaching and Climate Change on the Structure of Coral Communities. World Bank-UNESCO Targeted Working Group on modeling climate change, Miami Florida, USA.
117. Johnson CR, Dunstan PK, **Hoegh-Guldberg** O (2002) Predicting the long term effects of coral bleaching and climate change on the structure of coral communities. In: Proc Int Soc Reef Studies Eur Meeting, Cambridge, Sept, Abstr vol 50
118. **Hoegh-Guldberg**, O. (2002) Critical mechanisms in coral bleaching. GEF-WB-IOC Puerto Morelos field workshop, Mexico 9-22 Sept 2002
119. Franklin D.J., **Hoegh-Guldberg**, O., Jones, RJ, and Berges, JA (2002) Oxidative stress and depressed variable fluorescence correlate with dinoflagellate death in the coral *Stylophora pistillata* GEF-WB-IOC Heron Island field workshop, Great Barrier Reef, 25 Feb-18 March 2002:
120. Johnson, CR, Dunstan, PK, **Hoegh-Guldberg**, O (2002) Predicting the long term effects of coral bleaching and climate change on the structure of coral communities. GEF-WB-IOC Heron Island field workshop, Great Barrier Reef, 25 Feb-18 March 2002:
121. Smith, C.R., Dove, S., **Hoegh-Guldberg**, O, Wilson, K. and van Oppen, M. (2002) The heat stress response of *Acropora millepora*: a population perspective. GEF-WB-IOC Heron Island field workshop, Great Barrier Reef, 25 Feb-18 March 2002
122. **Hoegh-Guldberg**, O. (2001). "Sizing the impact: Coral reef ecosystems as early casualties of climate change" invited plenary at conference "Detecting the Fingerprints of Climate Change". Gland, Switzerland.
123. Hoegh Guldberg, O. (2001) The Future Of Coral Reefs: Integrating Climate Model Projections And The Recent Behaviour Of Corals And Their Dinoflagellates. Invited seminar, Situating the Environment, Conference, St Lucia.
124. Hoegh Guldberg, O. (2001) Tropical Marine Science. Setting priorities for universities. Invited talk, Queensland State Development.
125. Hoegh Guldberg, O. (2001) Climate change and implications for fisheries. Invited Plenary, Fisheries Summit May 1 2001
126. Hoegh Guldberg, O. (2001) Climate Change and Australia's coral reefs. ACRS 2001 Annual Conference of the Australian Coral Reef Society, Magnetic Island, Townsville, Queensland, 6-8 July 2001.
127. Hoegh Guldberg, O. (2001) the Great Barrier Reef: Our Dead Sea? Invited Plenary at the Photosynthesis Conference, Sydney, June 2001.
128. Hoegh Guldberg, O. (2000) Photoinhibition and climate change: why reefs bleach. Invited seminar at Max Planck Institute, Bremen, Germany, June 16, 2000
129. Hoegh Guldberg, O. (2000) How will coral reef ecosystems react to projected changes in sea temperature? Invited Plenary speaker, Copenhagen ASLO meeting and Special session: SS27 - Climate change, weather patterns and aquatic systems
130. **Hoegh-Guldberg**, O. (2000) The future of coral reefs: integrating climate model projections and the recent behaviour of corals and their dinoflagellates. Proceeding of the Ninth International coral reef symposium, October 23-27, 2000. Bali, Indonesia,
131. Ward, S, Harrison, PJ and **Hoegh-Guldberg**, O (2000) Coral bleaching reduces reproduction of scleractinian corals and increases susceptibility to future stress. Proceedings of the Ninth International symposium for Reef Studies. October 23-27, 2000. Bali, Indonesia,

132. Ridgway, T., **Hoegh-Guldberg, O.** (2000). Reef recovery in disturbed coral reef ecosystems. Ninth International Coral Reef Society Symposium. October 23-27, 2000. Bali, Indonesia,
133. Carter, D.A., Gava, N., Loi, T.H., Loh, W.KW and **Hoegh-Guldberg, O.** (2000) Genetic diversity of symbiotic dinoflagellates (“zooxanthellae”) inhabiting different scleractinian coral species. Australian Society for Microbiology Conference, Cairns, 8-11 July 2000
134. **Hoegh-Guldberg, O. (2000)** Corals - Sentinels of Global Change. Australian Marine Science Association, plenary, Townsville, Friday, 31 March 2000

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RECENT PROFESSIONAL SERVICE (2016 ONLY)

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1. Australian Government Great Barrier Reef Independent Expert Panel
2. ARC Centre of Excellence for Coral Reef Studies Deputy Director
3. Great Barrier Reef Foundation International Scientific Advisory Committee
4. Great Barrier Reef Marine Park Authority Bleaching Scientific Advisory Panel
5. Queensland Government’s Great Barrier Reef Water Science Taskforce
6. XL Catlin Seaview Survey Chief Scientist
7. UNESCO member of working group on ethical consideration of climate change (September, Rabat)
8. World Bank Blue Ribbon Panel for the Global Partnership for Oceans Chair
9. Australian representative (one of two) on the IPCC scoping committee for the special report on the impacts of global warming of 1.5°C above pre-industrial levels (August, Geneva)
10. Australian representative (one of three) on the IPCC scoping committee for the special report on the Climate change on the Ocean and Cryosphere (December, Monte Carlo)
11. Coordinator for 3-day meeting between the Australian and Indonesian Academies of Science (Canberra)

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OTHER CONTRIBUTIONS (2016 ONLY)

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1. Australian Government Great Barrier Reef Independent Expert Panel Event occurred throughout Feb and March, but was confirmed in March
2. **Fighting coral bleaching:** Then-Federal Environment Minister Greg Hunt announced funding for GCI researchers to re-survey the Great Barrier Reef following the worst global coral bleaching event in recorded history.
3. 27 March to April 2. **Course on managing climate change in tropical coastal settings.** Hoegh-Guldberg, Nha Trang University, Vietnam
4. 11 March; **World Science Festival:** National Geographic explorer-in-residence Dr Sylvia Earle, James Cook University’s Professor Terry Hughes and GCI’s Professor Ove Hoegh-Guldberg joined a panel discussion, *Can we save our precious reefs in time?*, as part of the prestigious World Science Festival.
5. 12 March; Introduction by Hoegh-Guldberg. Thomas Oration by Hon Robert Hill AO; Festival Lab, Cultural Forecourt, Melbourne Street, South Brisbane
6. 6 April; **Sir David Attenborough Premiere.** The Great Barrier Reef Foundation joined UQ in hosting the Australian premiere of *Sir David Attenborough’s Great Barrier Reef*.
7. May 28 to June 3, 2016. Hoegh-Guldberg invited and attends, Prince Albert II of Monaco Foundation will be celebrating its 10th anniversary on Thursday 30th June 2016,

8. July 7-11; Discussion of Australian and Indonesian scientific collaboration. Planning for meetings and workshop in November in Canberra between academics.
9. Aug 4 2016. Climate change and coral reef. Meetings with Bloomberg Foundation over potential collaborations; Bloomberg headquarters; New York
10. International Partnership for Blue Carbon workshop; invited by Australian Government. Global Change Institute (foundation member); 23-24 August in Bogor, Indonesia.
- 11. Should climate change impacts on the ocean raise the level of climate action ambition?** Invitation by the government of Chile, Washington DC, September 14-15
- 12. Scoping meeting for special IPCC report on 1.5oC and the future.** Invited expert for scoping meeting for the IPCC Special Report on the Impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways. Geneva, 15 - 18 August 2016.
- 13. Development of Non-binding Declaration of Ethical Implications of Climate Change.** 29-25 September, Rabat, Morocco
- 14. Reviving Melanesia's Ocean Economy: The case for action.** Global Report released (Hoegh-Guldberg, Ridgway and Boston Consulting Group), 18 October
15. Leibniz Center for Tropical Marine Ecology (ZMT). International Board meeting. Bremen, German. 24-28 October
- 16. Australian and Indonesian Academies meeting convened by GCI Director. Canberra.** Convened and presented at meeting of scientists from Indonesia and Australian Academies Public day plus closed session workshops with plenary presentations on health, marine science and climate; November 28-30
- 17. IPCC scoping meeting for the IPCC Special Report on climate change and oceans and the cryosphere, invited expert.** Monaco. 6-9 December 2016.