

12th International **Coral Reef** Symposium

9-13 July 2012 • Cairns • Queensland • Australia



Program Book

www.icrs2012.com



Bilan Gudan 'Welcome' in the Yidinji Language

My name is Seith Fourmile and my traditional name is GudjuGudju. I am the Great Grandson of Yiene who was the great leader of the Yidinji people. He was given the King Plate in the late 1800s by the Governor and given the title *King of Cairns*.



I am from the Walubarra Yidinji clan of Gimuy, the traditional name for the place today known as Cairns. Gimuy is from the Yidinji name for the slippery blue fig tree. Traditional lands of the clan extend south of Cairns, west into the ranges inland, and east along Trinity Inlet. The lands in the Cairns suburb of Woree were the principal traditional camping grounds of the Gimuy Walubarra Yidinji People.

This July, you will be meeting on a place close to many sacred stories, many relating to water, the sea and the Great Barrier Reef. They are still told today, and I will tell some of them at the ICRS 2012 Opening Ceremony.

Garu 'See you' in Yidin
GudjuGudju

Welcome from the ICRS 2012 Convenor

Dear colleagues and friends,

Welcome to the 12th International Coral Reef Symposium, and thank you for coming to Cairns to share your expertise. Close to 2,000 delegates have converged on Australia from 80 countries. Coral reefs, and the people who depend on them, face many challenges. We hope that this meeting will help to raise awareness of how reefs can be better managed to ensure that they remain vibrant in the future (see the *Consensus Statement on Climate Change and Coral Reefs*, p. iv).



We have designed an incredibly diverse scientific program with more than 1,500 presentations. While the science presented in the 72 Mini-Symposia is the primary attraction for most of us, we have crafted a program that allows plenty of informal interaction and encourages new collaborations and discourse. We have trialled a number of new innovations that we hope will inform future ICRS Symposia, including speed talks, a web-based Program Book, and simultaneous online publication of the Proceedings. The Symposium website will archive the Proceedings, all abstracts, the Plenary talks, and many of the posters for ongoing use by the global coral reef community.

I'm delighted to see that over 600 graduate students have come to ICRS from around the world. Through our generous donors, we have supported the attendance of >120 early career researchers and delegates from developing countries. This Symposium also has a record number of reef managers and NGOs in attendance, as well as a significant number of sessions on the human dimensions of coral reefs. We're particularly pleased to support a large contingent of talks focussing on management, coral reef governance and policy issues such as the *Coral Triangle Initiative*.

Organizing a \$3 million meeting for 2,000 people is a daunting task that requires considerable time and effort from many individuals and organisations. This Symposium would not have been possible without the support of our many sponsors who have donated approximately \$1 million towards the many aspects of putting on this major event. I would also like to acknowledge the ongoing support of the *Australian Research Council* and *James Cook University* which has been essential in ensuring the success of ICRS 2012. I am very grateful to all members of the Organizing Committees, the Mini-Symposium Chairs and Co-Chairs, Field Trip Organisers, Plenary Speakers, and volunteers. A special thank you to hundreds of local school children, and to their teachers, for their artful name badges!

Thank you for making ICRS 2012 a successful and fruitful meeting, and I wish you a very enjoyable stay in Australia.



Terry Hughes, ICRS 2012 Convenor
Director, Australian Research Council Centre of Excellence for Coral Reef Studies

Welcome from the ISRS President

On behalf of the International Society for Reef Studies (ISRS), the sanctioning organization for the International Coral Reef Symposia, I would like to welcome you to the 12th International Coral Reef Symposium (ICRS 2012) and express my sincere appreciation to Professor Terry Hughes and his colleagues for organizing this important gathering of coral reef scientists, managers, educators, policy makers and stakeholders.

For perspective, the 1st International Coral Reef Symposium was held in 1969, with a small group of scientists representing 11 countries. This 12th ICRS promises to be another milestone, particularly in the areas of advancements in science that support our collective understanding of how coral reefs work, how they have been affected by ever increasing levels of human disturbance, and the critical need to bridge science to policy development, coral reef resource management and education to ensure a proper legacy of vital coral reefs for future generations.

My first ICRS experience was the third in 1977, and it was a life-changing experience. My fascination with coral reefs and my appreciation for their magnificence and importance was solidified there. Much has changed over the subsequent 35 years. The attendance at the 3rd ICRS was only a few hundred and there were only two categories of participants, biologists and geologists. In those days, magnificent stands of *Acropora palmata* were found throughout the Caribbean as well as abundant schools of grazing fishes. A recent return to some of the reefs I studied in 1974 found prior stands of *Acropora* truly decimated and fish of any sort were rare. It was a heart-wrenching experience and further drove home the questions that many of us are focused on at this meeting: what happened so quickly, why and what can be done?

As we can't control natural disturbances, it is essential that we address human stressors, understanding that humans are an integral part of coral reef ecosystems, even those far from population centers. The expansion of the Coral Reef Symposia to include the social sciences, economics, valuation, education and policy are great strides forward, and it is encouraging to see the broad range of topics being covered at this meeting. While the decline of reefs has been documented at a global scale, there is also room for optimism for the many reefs that are also exhibiting resilience and recovery following mass-bleaching events and *Acanthaster* outbreaks.

The sharing of new knowledge and past experiences, the development of new tools and the integration of traditional sustainability practices are all activities that will occur over the next week and into the future. The number of participants, the diversity of disciplines and ideas represented, the dedication of ICRS attendees and the determination to see this knowledge disseminated and applied are truly reasons for optimism. It is in that spirit that I and my fellow ISRS Council members welcome you and wish you the best for a great and productive 12th ICRS.



A handwritten signature in blue ink that reads "Robert H. Richmond".

Robert H. Richmond, ISRS President

Consensus Statement on Climate Change and Coral Reefs

The international Coral Reef Science Community calls on all governments to ensure the future of coral reefs, through global action to reduce the emissions of carbon dioxide and other greenhouse gases, and via improved local protection of coral reefs.

Coral reefs are important ecosystems of ecological, economic and cultural value yet they are in decline worldwide due to human activities. Land-based sources of pollution, sedimentation, overfishing and climate change are the major threats, and all of them are expected to increase in severity.

Changes already observed over the last century:

- Approximately 25-30% of the world's coral reefs are already severely degraded by local impacts from land and by over-harvesting.
- The surface of the world's oceans has warmed by 0.7°C, resulting in unprecedented coral bleaching and mortality events.
- The acidity of the ocean's surface has increased due to increased atmospheric CO₂.
- Sea-level has risen on average by 18cm.

By the end of this century:

- CO₂ emissions at the current rate will warm sea surface temperatures by at least 2°-3°C, raise sea-level by as much as 1.7 meters, reduce ocean pH from 8.1 to less than 7.9, and increase storm frequency and/or intensity. This combined change in temperature and ocean chemistry has not occurred since the last reef crisis 55 million years ago.

Other stresses faced by corals and reefs:

- Coral reef death also occurs because of a set of local problems including excess sedimentation, pollution, habitat destruction, and overfishing.
- These problems reduce coral growth and vitality, making it more difficult for corals to survive climate changes.

Future impacts on coral reefs:

- Most corals will face water temperatures above their current tolerance.
- Most reefs will experience higher acidification, impairing calcification of corals and reef growth.
- Rising sea levels will be accompanied by disruption of human communities, increased sedimentation impacts and increased levels of wave damage.
- Together, this combination of climate-related stressors represents an unprecedented challenge for the future of coral reefs and to the services they provide to people.

Across the globe, these problems cause a loss of reef resources of enormous economic and cultural value. A concerted effort to preserve reefs for the future demands action at global levels, but also will benefit hugely from continued local protection.

Please go to http://icrs2012.com/Consensus_Statement.htm to join other scientists from around the world by adding your name to the list of endorsees.

Welcome from the Premier of Queensland

Welcome to Queensland.

Queensland is proud to host the 12th International Coral Reef Symposium, on the doorstep of the world's largest and best known coral reef ecosystem – the Great Barrier Reef.

It is the third time this event has been held in Australia and I am delighted that Cairns has been chosen as the location for discussing the latest science and management that will help conserve the world's coral reefs.



The Great Barrier Reef is an Australian and international icon. Extending over 2,300 kilometres along the Queensland coast and covering an area of 358,000 square kilometres, it features a diverse range of habitat types and extraordinary biodiversity. The reef is one of the most well known World Heritage Areas, alongside the Great Wall of China and the Taj Mahal. It is of superlative natural beauty and provides some of the most spectacular scenery on earth.

The Great Barrier Reef is vastly important to the people, economy and culture of Queensland.

The Great Barrier Reef and surrounding catchments support a range of industries that generate more than \$40 billion in economic activity every year. It is an important element that underpins my government's four pillar economy which focuses on tourism, agriculture, resources and construction.

There are up to two million visits to the reef annually, generating \$5 billion. The beef, sugarcane and horticulture industries in the neighbouring catchments contribute \$3.7 billion annually and support significant regional employment. The reef also supports 10 commercial fisheries and an active recreational fishery.

The Queensland Government is taking a world leading approach to protect and conserve this World Heritage Area, while accommodating sustainable land use and coastal development which help build a vibrant economy. This will allow Queenslanders to benefit environmentally, economically and socially long into the future.

The Queensland Government fully supports these types of events which further progress reef research and knowledge and ultimately guide policy development and decision making.

On behalf of Queensland, it is my pleasure to welcome you to Cairns and I encourage you to enjoy the stunning attractions this area has to offer.

The Honourable Campbell Newman MP
Premier of Queensland

Protecting the Great Barrier Reef



The Queensland Government is working with communities across Queensland to protect and conserve the Great Barrier Reef for generations to come, including:

- using science and research to conserve Queensland's natural heritage and drive innovative industry
- supporting recreational and commercial use
- improving fishing practices and promoting a profitable fishing industry
- planning sustainable towns and cities
- reducing farm runoff and introducing new practices to improve water quality and profitability of farms
- protecting precious wetlands.

To find out more about the protection of this natural wonder, go to www.qld.gov.au or call 13 QGOV (13 74 68).



About ICRS

The world's major coral reef science meeting, the International Coral Reef Symposium (ICRS) is held every 4 years. The sanctioning organisation is the International Society for Reef Studies.

The quadrennial ICRS provide a unique opportunity to share research findings with scientists, government agencies, resource managers and non-government organisations throughout the world.

Previous ICRS were:

2008	Fort Lauderdale, USA
2004	Okinawa , Japan
2000	Bali, Indonesia
1996	Panama City, Panama
1992	Mangilao, Guam
1988	Townsville, Australia
1985	Tahiti, French Polynesia
1981	Manila, Philippines
1977	Miami, USA
1974	MV Marco Polo, Australia
1969	Mandapam Camp, India.

Proceedings from all of these ICRS are available from ReefBase at www.reefbase.org/resource_center/publications/icrs.aspx

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Committees

Organising Committee



Terry Hughes (Chair)
ARC Centre of Excellence
for Coral Reef Studies,
James Cook University



Emma Bowyer
General Manager
ICMS Australasia



Eliza Glasson
ARC Centre of Excellence
for Coral Reef Studies,
James Cook University



Penny Sandercock
Scientific Program
Administrator
ICMS Australasia



Jennifer Lappin
ARC Centre of Excellence
for Coral Reef Studies,
James Cook University



Fallon Smith
Exhibition & Sponsorship
Manager
ICMS Australasia



David Yellowlees
ARC Centre of Excellence
for Coral Reef Studies,
James Cook University



Emma Taylor
Conference Services
Coordinator
ICMS Australasia



Suellen Holland
Executive Manager
ICMS Australasia

Fundraising Committee

David Yellowlees (Chair), ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia

Emma Bowyer, ICMS Australasia, Australia

Dick Dodge, National Coral Reef Institute, Nova Southeastern University, United States of America

Eliza Glasson, ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia

Lorna Hempstead, James Cook University, Australia

Maurice Knight, U.S. Coral Triangle Support Partnership (CTSP), Indonesia

John Ogden, Florida Institute of Oceanography, United States of America

Ian Poiner, Australian Institute of Marine Science, Australia

Kathy Rankin, Queensland Department of Education, Training and Employment, Australia

Fallon Smith, ICMS Australasia, Australia

John Tanzer, WWF Global Marine Program, Switzerland

Scientific Program Committee

Terry Done (Chair), Australian Institute of Marine Science, Australia

Andrew Baird, ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia

Natalie Ban, ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia

Joshua Cinner, ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia

Ruth Gates, Hawai'i Institute of Marine Biology, United States of America

Edgardo D. Gomez, University of the Philippines Diliman, Philippines

Alison Green, The Nature Conservancy, Australia

Jamaluddin Jompa, Hasanuddin University, Indonesia

Laurence McCook, Great Barrier Reef Marine Park Authority, Australia

Peter J. Mumby, University of Queensland, Australia

Nyawira Muthiga, Wildlife Conservation Society, Kenya

Magnus Nyström, Stockholm University, Sweden

Serge Planes, University of Perpignan, France

Kazuhiko Sakai, University of the Ryukyus, Japan

Thank you

A big thank you to all the local school children who were inspired by the Great Barrier Reef to decorate your spectacular name badge cards.

Bajool State School
Banana State School
Bauhinia State School
Biboohra State School
Biloela State School
Caravonica State School
Cardwell State School
Cawarral State School
Clermont State School
Cooktown State School
Cranbrook State School
Currajong State School
Dimbulah State School
Freshwater State School
Hermit Park State School
Holy Spirit School –
Townsville
Innisfail State School
Isabella State School
Kirwan State School
Kuranda District State
College
Lakeland State School
Machans Beach State
School



Magnetic Island State
School
Malanda State School
Mareeba State School
Moresby State School
Mossman State School
Mount Molloy State
School
Mundingburra State
School
Mundoo State School
Oonoonba State School
Port Curtis Road State
School

Tagai State College -
Poruma Campus
Tagai State College -
Thursday Island Primary
Campus
Tannum Sands State
School
The Willows State School
Townsville Central State
School
Townsville Grammar
School
Trinity Beach State School
Yorkeys Knob State School

General information

Automated Teller Machines (ATMs)

An ATM facility is located on the left hand side of Grafton Street, approximately 100 metres past Hartley Street if you are walking from the Convention Centre.

Baby feeding room

There is a baby feeding room at the Cairns Convention Centre, opposite the Registration Desk near the front entrance.

Book of Abstracts

The Book of Abstracts is on the USB memory stick provided with your satchel. A limited number of printed versions are available for \$75.00 from the Registration Desk. If you ordered and pre-paid a copy of the Book of Abstracts, you should have received it with this Program Book.

Buses

Timetables for the local bus company *Sunbus* are available at the Registration Desk.

Business centre

Photocopying, binding, laminating and other secretarial services are available from the Convention Centre's main reception and administration office. Similar services are available at the Sebel Hotel and enquiries should be directed to their hotel reception desk.

Car parking

The Convention Centre's undercover car park can be accessed from Sheridan Street and is \$4.00 per entry. No change is given upon entry. The car park is closed before 0700 and after 1900.

Valet parking is available at the Sebel Cairns for \$20.00 per day. Please enter the hotel driveway on Abbott Street and leave your keys with the concierge. Street parking is limited and metered.

Catering

Morning and afternoon tea will be provided at both the Sebel Hotel and the Convention Centre. Lunch is served at the Convention Centre. Meals with a dietary requirement ordered at registration are served on the designated buffet table in the main foyer.

Cloakroom and luggage storage

There is a small cloak / luggage storage room available at the main reception of the Convention Centre.

Coral News, the daily Symposium newsletter

Coral News will be distributed free of charge to delegates each day. If you would like to make a contribution to the content of a newsletter, please see the Newspaper Publisher located in the Media Room, MR9 on the ground floor of the Convention Centre.

General Information

Delegate list

A list of delegates registered prior to June 2012 is on the USB memory stick with your satchel. A printed copy is also on display by the Registration Desk.

A printed copy as at the beginning of July 2012 is on display by the Registration Desk.

Disclaimer

The Organising Committee reserves the right to make changes to the Symposium program at any time without notice, due to cancellations.

Emergencies / First aid

In Australia, phone 000 in an emergency situation requiring police, the fire department or ambulance. See staff at the Registration Desk for access to the first aid room.

Lost property

Please go to the Registration Desk.

Media / Press briefings

To speak with a media representative, visit the Media Room, MR9. Press briefings will take place in MR7, mezzanine, and a schedule of these media events will be available from the Media Room and in *Coral News*.

Message board

If you have a message for a colleague, please deliver it to the Registration Desk for placement on the notice board.

Name badges

Please wear your name badge to all sessions and all social functions. If you misplace your name badge, please go to the Registration Desk to arrange a replacement.

Photographic competition

All entries from the Photographic Competition can be seen in the Photographic Gallery, mezzanine. The winners will be announced at the Banquet. All entries can also be viewed at <http://www.icrs2012.com> from 16 July 2012.

Posters

Posters are on display in the hallways adjoining Plenary Hall 2 on the ground floor. Access is along the foyer parallel to the Outdoor Plaza. Posters are arranged by Mini-Symposia. Uploaded posters will be archived on <http://www.icrs2012.com> from 16 July. The Poster Reception will be on Monday 9 July from 1800-1930. See page 205 for detailed information about the posters.

Prayer Room

There are two Prayer Rooms at the Sebel Hotel on the first floor: the Board Room for females and the Agincourt Room for males.

Proceedings

The Symposium Proceedings are on the USB memory stick with your satchel and at <http://www.icrs2012.com>. They will be available on the ReefBase website from August on www.reefbase.org/resource_center/publications/icrs.aspx.

Restaurants/Bars

The following restaurants at *The Pier* will honour a 10% discount to all delegates dining, upon presentation of your ICRS 2012 name badge:

- North Food and Wine and Ba8 (Shangri-La Hotel)
- Sauce Restaurant
- Boardwalk Café
- Tha Fish
- Ciao Italia

Smoking

It is illegal to smoke indoors or within 4 metres of any doorway in public buildings in Australia. A smoking area is located at the Convention Centre outside Plenary Hall 2 on the Grafton Street side of the Centre. At the Sebel Hotel, the smoking area is located at the ramp to the right of the hotel after exiting through the main doors.

Speakers' Preparation Rooms

If you are presenting a talk, you must upload your presentation at least three (3) hours prior to your presentation, at the same venue where you are giving your talk: MR8 on the mezzanine at the Cairns Convention Centre and the Rosser Room on the first floor at the Sebel Hotel. The Speakers' Preparation Rooms at both venues will be open at these times:

Sunday	1200 – 1700
Monday-Thurs	0730 – 1800
Friday	0730 – midday

T-shirts

T-shirts can be purchased from the Registration Desk from Tuesday 10 July 2012.

Taxis

To book a taxi, phone 131 008, or there is a taxi phone located outside the front entrance of the Convention Centre.

Venues

ICRS 2012 will use meeting rooms (MR) at both the Convention Centre and the Sebel Hotel to provide 12 concurrent sessions. A map showing directions to the Sebel Hotel is on page 13. If you exit the front doors of the Convention Centre it takes up to 7 minutes to walk between the venues. ICRS 2012 signage will help direct you. Volunteers will also assist with helping delegates with directions on Monday and Tuesday.

All Plenary talks and the Darwin Medal Address will take place in the Convention Centre's Plenary Hall 2. We have allowed 15 minute transitions after these major events so you have sufficient time to exit Plenary Hall 2 and make your way to a session at the Sebel Hotel or elsewhere in the Convention Centre.

Wi-Fi / Internet cafés

The Convention Centre and Sebel Hotel have Wi-Fi. You are also welcome to use the free of charge internet cafés located in the Convention Centre outside MR7 and in the Photographic Gallery, both on the mezzanine.

Venues: Cairns Convention Centre

Location: Corner Wharf and Sheridan Streets

Phone: +61 7 4042 4200

The Convention Centre has two levels: ground floor and mezzanine (first floor). Plenary presentations will be given in Plenary Hall 2. You can enter from the ground floor or mezzanine level. Concurrent sessions will be held in Plenary Hall 2, Halls A, B, C and D on the ground floor, as well as in MR1, 3 and 5 which are all located on the mezzanine.

The Speakers' Preparation Room is located in MR8 on the mezzanine and will be open at the below times:

Sunday	1200 – 1700
Monday-Thurs	0730 – 1800
Friday	0730 – midday

Lunch, morning and afternoon tea will be served each day in the exhibition area located on the ground floor.

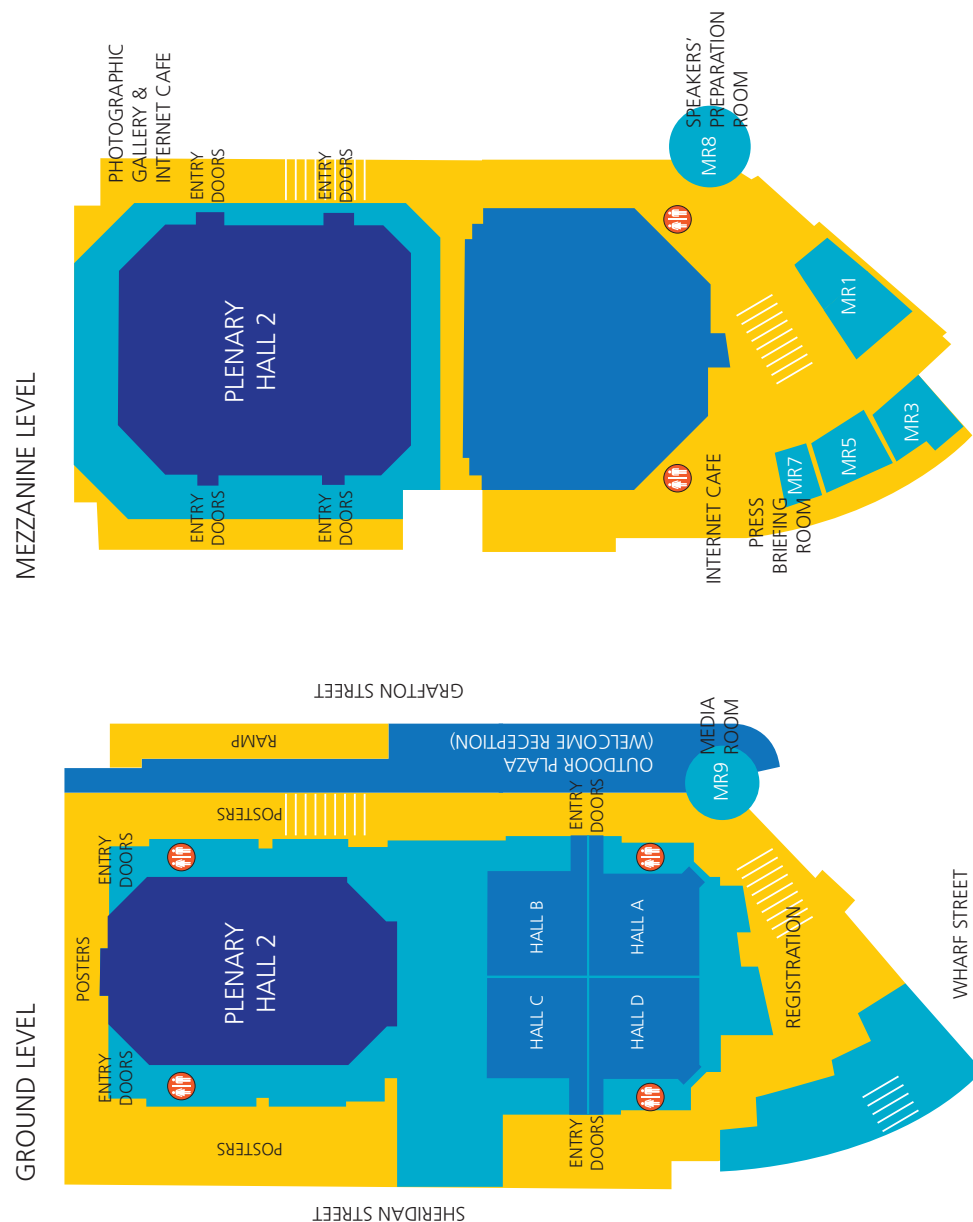
Posters are on display in the hallways adjoining Plenary Hall 2 on the ground floor.

Photographic competition winning entries are on display in the Photographic Gallery on the mezzanine.

Free internet cafes are located outside MR7 and in the Photographic Gallery, both on the mezzanine.

Press briefings will take place in MR7.

The Media Room is located in MR9 on the ground floor.



Venues: The Sebel Hotel

Location: 17 Abbott Street

Phone: +61 7 4031 1300

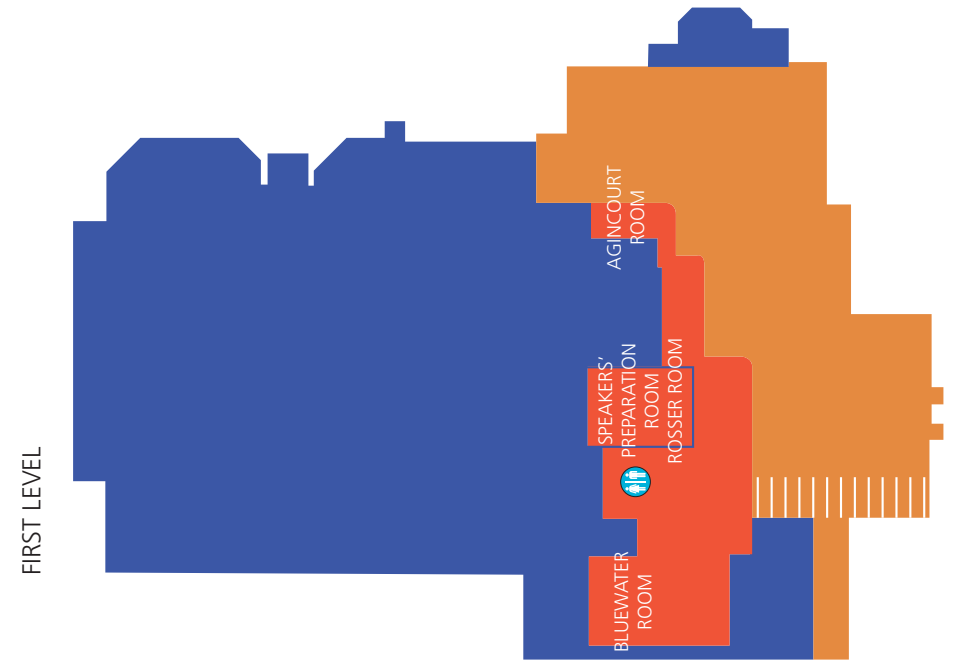
Sessions will be held in the Tully, Kuranda and Mossman Rooms located on the ground floor level of the hotel, and the Bluewater Room located on the first floor.

The Speakers' Preparation Room is located in the Rosser Room which is also on the first floor. The opening times are:

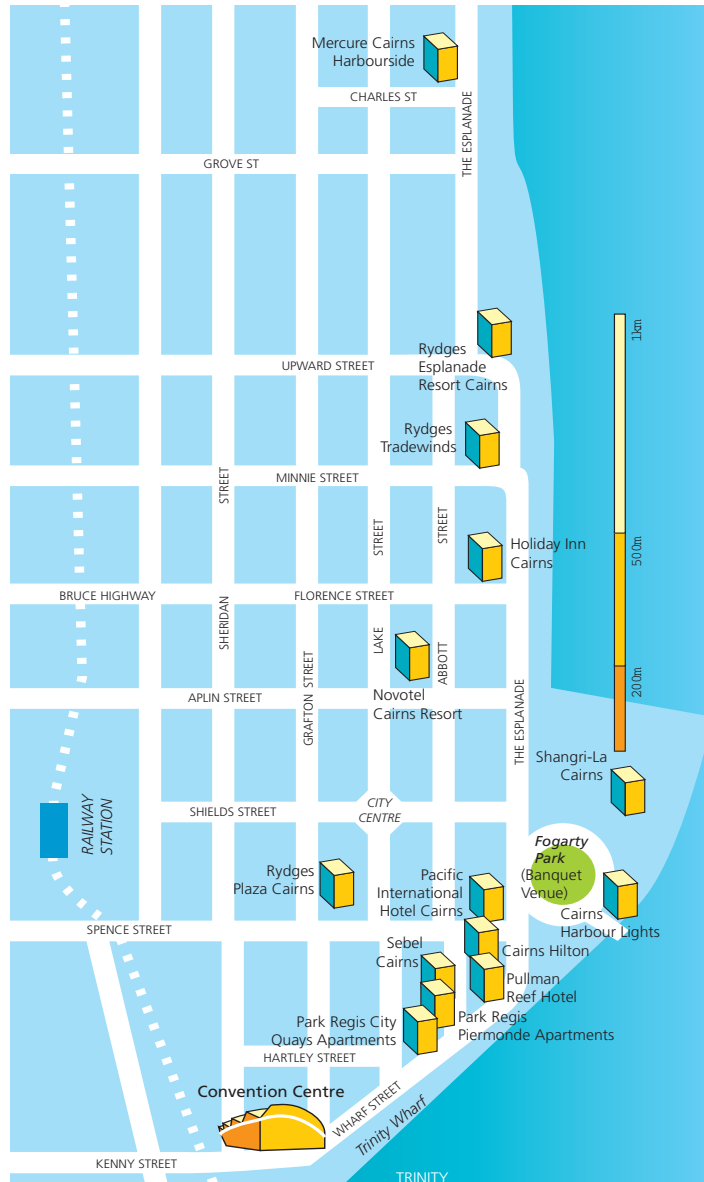
Sunday	1200 – 1700
Monday-Thurs	0730 – 1800
Friday	0730 – midday

Morning and afternoon tea will be served at the Sebel Hotel. Many pre-lunch sessions will finish 5 minutes early to allow you time to walk to the Convention Centre for lunch.

Prayer Rooms are available in the Board Room for females and the Agincourt Room for males.



Cairns map



Walking between the Convention Centre and the Sebel

The Sebel is a comfortable 5-7 minute walk from the Convention Centre. As you leave the front entrance of the Convention Centre, turn left and follow Wharf Street for approximately 400 metres. Turn left onto Abbott Street. The Sebel Hotel is on your left approximately 50 metres along the road.

**Hotels and Fogarty Park, venue for the Banquet,
Thursday 12 July, 1830 – 2300**

Exhibition

Exhibition booths are located at the Convention Centre. The exhibition will be open at the following times:

Monday 9 July	0800-1630	Thursday 12 July	0800-1630
Tuesday 10 July	0800-1630	Friday 13 July	0800-1400
Wednesday 11 July	0800-1630		

If you need to speak with the Exhibition Manager, please go to the Registration Desk.

Exhibitor listing

	Booth No/s.
Australian Coral Reef Society	16
ARC Centre of Excellence for Coral Reef Studies	13
Australian Institute of Marine Science	19
Cairns Regional Council	3
Commonwealth Scientific and Industrial Research Organisation	23 & 24
Coral Reef Systems	9
Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security	6
CoralWatch	2
International Society for Reef Studies	4
James Cook University	14
Japanese Coral Reef Society	12
Khaled bin Sultan Living Oceans Foundation	5
King Abdullah University of Science & Technology	22
Mahonia Na Dari Research and Conservation Centre	7
Marine Geophysics Laboratory, James Cook University	18
National Coral Reef Institute, Nova Southeastern University	11
The National Opal Collection	10
The Nature Conservancy	1
Queensland Government	20 & 21
Springer	8
The University of Queensland	15

Exhibitor profiles



Australian
Coral Reef Society

Australian Coral Reef Society

Booth 16

*c/- School of Biological Sciences
The University of Queensland
St Lucia QLD 4072*

Australia

Contact: Professor Peter J Mumby / Mr

Chico Birrell

Tel: +61 7 3365 1686 / + 61 433 724 496

Email: acrs@cms.uq.edu.au

Web:

<http://www.australiancoralreefsociety.org>

ACRS is concerned with the study and protection of coral reefs in Australia. We support scientific studies and present an independent voice to policy makers.



ARC Centre of Excellence

Coral Reef Studies

ARC Centre of Excellence for Coral Reef Studies

Booth 13

Contact: Jenny Lappin

James Cook University

James Cook Drive

Douglas QLD 4811

Australia

Tel: +61 7 4781 4222

Fax: +61 7 4781 6722

Email: jennifer.lappin@jcu.edu.au

Web: <http://www.coralcoe.org.au/>

The ARC Centre's aim is global leadership in the provision of scientific knowledge necessary for sustaining the ecosystem goods and services of the world's coral reefs.



Australian Government



AUSTRALIAN INSTITUTE
OF MARINE SCIENCE

Australian Institute of Marine Science

Booth 19

Research Office

PMB 3, Townsville MC

Townsville QLD 4810

Australia

Tel: +61 7 4753 4444

Fax: +61 7 4772 5852

Email: Research_Office@aims.gov.au

Web: <http://www.aims.gov.au>

The mission of Australia's tropical marine research agency is to generate and transfer the knowledge to support the sustainable use and protection of the marine environment.

Exhibitor profiles



Cairns Regional Council

Booth 3

Contact: Fiona Dix / Fiona Wilson
119-145 Spence Street
Cairns QLD 4870
Australia

Tel: +61 7 4044 3044
Mob: +61 437 632 125
Fax: +61 7 4044 3953
Email: f.dix@cairns.qld.gov.au
Web: <http://www.cairns.qld.gov.au>

The Cairns Regional Council area encompasses 4,135 km² of land on a narrow coastal strip between the Great Dividing Range and the Coral Sea.



Commonwealth Scientific and Industrial Research Organisation

Booths 23 & 24

Contact: CSIRO Enquiries
Locked Bag 10
Clayton South VIC 3169
Australia
Tel: +61 3 9545 2176
Fax: +61 3 9545 2175
Email: enquiries@csiro.au
Web: <http://www.csiro.au>

Australia's national science agency, CSIRO, is a powerhouse of technologies and skills,

providing the best possible science research to inform decision-making by Commonwealth and State agencies.



Coral Reef Systems

Booth 9

Contact: Dr. Forest Rohwer
San Diego State University
5500 Campanile drive
San Diego CA 92182
USA
Tel: +1 619 594 1336
Email: frohwer@sciences.sdsu.edu
Web: <http://www.coralandphage.org>

A network for integrative research of coral reefs.



Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security

Booth 6

Contact: Dr. Darmawan, Coordinator
CTI-CFF Regional Secretariat
Mina Bahari II Bldg, 17th Fl.
Ministry of Marine Affairs and Fisheries
Jl. Medan Merdeka Timur 10110
Jakarta
Indonesia
Tel: +62 21 351 9070 ext 1723 /
+62 21 352 1780
Email: darmawan@indo.net.id

Web:

<http://www.coraltriangleinitiative.org/>

The CTI-CFF is a multilateral partnership of six countries formed in 2009 to address urgent threats facing the coastal and marine resources of the Coral Triangle.



CORALWATCH

CoralWatch

Booth 2

Contact: Diana Kleine / Angela Dean
Queensland Brain Institute
The University of Queensland
St Lucia QLD 4072
Australia
Tel: +61 7 3365 3127
Fax: +61 7 3346 6301
Email: info@coralwatch.org
Web: <http://www.coralwatch.org>

CoralWatch is a non-profit organisation, based within The University of Queensland. CoralWatch integrates global monitoring of coral bleaching with community education about coral reef conservation.



International Society for Reef Studies

Booth 4

Contact: Professor Bob Richmond
President
Kewalo Marine Laboratory
University of Hawaii at Manoa
41 Ahui Street
Honolulu HAWAII 96813
USA
Tel: +1 (808) 539 7331
Fax: +1 (808) 599 4817
Email: richmond@hawaii.edu
Web: <http://www.coralreefs.org>

Founded in 1980, the objective of the Society is to promote understanding of coral reefs, both living and fossil.

Exhibitor profiles



James Cook University

Booth 14

Contact: Faculty of Science and Engineering
Building 17

James Cook University
Townsville QLD 4811
Australia

Tel: +61 7 4781 6823

Email: Facultyse.tsv@jcu.edu.au

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Japanese Coral Reef Society

Booth 12

Contact: Dr. Hajime Kayanne
Secretariat General

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University of Tokyo

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Fax: +81 3 3814 6358

Email: kayanne@eps.s.u-tokyo.ac.jp

Web: <http://www.soc.nii.ac.jp/jcrs/english/index.html>

The Japanese Coral Reef Society was founded in 1997. The membership is now over 600. The JCRS holds annual meetings and publishes the journal *Galaxea*.



Khaled bin Sultan Living Oceans Foundation

Booth 5

Contact: Capt. Philip Renaud
Executive Director

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prenaud@livingoceansfoundation.org

Web:

<http://www.livingoceansfoundation.org>

The Khaled bin Sultan Living Oceans Foundation is dedicated to ocean conservation and restoration, and also to the advancement of His Royal Highness' vision of Science Without Borders®.



King Abdullah University of Science & Technology

Booth 22

Contact: Red Sea Research Center Info
4700 King Abdullah University

Thuwal KSA 26955

Saudi Arabia

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Email: RSRC.Info@KAUST.EDU.SA

Web:

<http://rsrc.kaust.edu.sa/pages/home.aspx>

Our primary focus is developing a scientific basis for sustaining and conserving coral reef environments along the Red Sea coast of Saudi Arabia.



Mahonia Na Dari Research and Conservation Centre

Booth 7

Contact: Nathan Wakou

Talasea Highway

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Web: <http://www.mahonianadari.org>

Mahonia na dari means "guardian of the sea". The Centre facilitates marine (environmental) research. We engage school children and coastal communities in marine conservation education.



Marine Geophysics Laboratory, James Cook University

Booth 18

Contact: James Whinney

DB017 162

School of Engineering and Physical Sciences

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Offering a complete oceanographic monitoring service, we deploy our custom built instruments for clients throughout the region, providing data analysis for long-term and real-time monitoring.

Exhibitor profiles



National Coral Reef Institute, Nova Southeastern University Booth 11

Contact: Richard Dodge Ph.D.
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Fax: +1 954 262 7053

Email: ncri@mail.ocean.nova.edu

Web: <http://www.nova.edu/ncri>

NCRI's primary objective is the assessment, monitoring, and restoration of coral reefs. NCRI operates at the Nova Southeastern University Oceanographic Center near Fort Lauderdale, Florida.



The National Opal Collection Booth 10

Contact: Anneli Davis
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USA

Tel: +1 703 841 5300

Fax: +1 703 841 1283

Email: marine@tnc.org

Web: <http://www.nature.org/marine>

The Nature Conservancy conserves the lands and waters on which all life depends. TNC is leading innovative coral reef conservation efforts across the globe.



Queensland Government

Queensland Government Booths 20 & 21

Queensland Government Service Centre
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The University of Queensland Booth 15

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Australia

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Email: marine@uq.edu.au

Web: <http://www.marine.uq.edu.au/>

The University of Queensland has 300 marine researchers and two purpose-built off-shore research facilities providing exceptional educational and research opportunities for current and future marine scientists.

Social events

Welcome Reception

Sunday 8 July

Time: 1700 – 1830

Cairns Convention Centre Outdoor Plaza

Meet with old and new colleagues in a relaxed and informal environment whilst enjoying cool drinks and canapés. Dress code is smart casual. This Reception is included in the registration fee for delegates and accompanying guests. Additional tickets can be purchased from the Registration Desk.

Poster Reception

Monday 9 July

Time: 1800 – 1930

Cairns Convention Centre, hallways adjoining Plenary Hall 2

Come and meet the authors of the posters while enjoying light refreshments. This reception is included in the registration fee for delegates and accompanying guests.

Banquet

Thursday 12 July

Time: 1830 – 2300

Fogarty Park, Cairns City Centre

Feast on delicious cuisine outdoors under the stars. You will be entertained by indigenous and local artists. This is your opportunity to truly relax and have fun. Dress code is smart casual. The Banquet will be outdoors so the temperature may be cooler (14°-18°C). The Banquet and drinks are included in the registration fee for delegates and accompanying guests. You must bring your ticket you received at registration to gain entry to this event. Additional tickets can be purchased from the Registration Desk.

Accompanying guests

As an accompanying guest, you are entitled to join the Welcome Reception (Sunday) and Banquet (Thursday), and visit the exhibition and poster areas, including the Poster Reception (Monday). You will also go on a full day tour to Kuranda by Scenic Railway and SkyRail Rainforest Cableway on Tuesday 10 July 2012.

Associated meetings, events and workshops

Saturday 7 July

OPEN

Science and Governance in the Centre of Global Marine Biodiversity: The State of the Coral Triangle Reports meeting

1330-1700, Sebel Bluewater

Representatives from the six Coral Triangle countries report to an audience of the world's coral reef experts, and obtain input from them.

Sunday 8 July

OPEN

Subtropical Reef Futures

1400-1630, Sebel Kuranda

Review research objectives for subtropical reefs.

INVITATION ONLY

SymbioCore-EU Marie Cure Exchange Program

1100-1630, Sebel Tully

Scientific planning.

INVITATION ONLY

Science to Support the Coral Triangle Initiative

1100-1630, Sebel Bluewater

Working group on monitoring & evidence-based decision making in practice, networking.

Tuesday 10 July

OPEN

Coral Reef Remote Sensing

1300-1345, MR1

Introduce state-of-the-art book on mapping, monitoring and management of coral reefs using remote sensing.

OPEN

Octocoral Research Network

1300-1345, MR3

Informal gathering of octocoral researchers.

Associated meetings, events and workshops

Tuesday cont.

OPEN

CoralNet: A public demonstration of an online, automated coral reef imagery annotation system

1800-1900, MR1

Demonstration and discussion of CoralNet: an online, automated coral reef imagery annotation system.

OPEN

ISRS Annual General Meeting

1800-1900, Hall A

INVITATION ONLY

Planning Meeting: Programs 2 and 3

1300-1345, MR5

Planning meeting for programs 2 and 3 in the ARC CoECRS.

INVITATION ONLY

Working Group on Coral Reef Resilience for Pacific Island Managers

1800-1900, MR3

INVITATION ONLY

ACOR

1800-1900, MR5

Annual meeting of the ACOR group, French Society for Reef Studies.

Wednesday 11 July

OPEN

Dhyum the dugong

1300-1345, MR5

Book launch.

OPEN

US Endangered Species Act Review of 82 Coral Species

1300-1345, MR1

Informational meeting.

OPEN

The Coral Triangle

1800-1900, MR1

Book launch for author Juergen Freund and Stella Chiu Freund.

OPEN

Tok Story: sharing lessons learned from the Locally Managed Marine Area Network

1815-2030, MR5

To share lessons learned from the LMMA Network, practical experiences from a range of sites around the world and an opportunity to share with other participants, experts in the field of marine protection areas.

INVITATION ONLY

GASPAR

1300-1345, MR3

Information on the GASPAR program which is dedicated to macro-ecology of coral reef fishes on a world wide scale.

INVITATION ONLY

ISRS Council Meeting

1800-1900, ISRS Committee Room

INVITATION ONLY

Working Group on Coral Reef Resilience for Pacific Island Managers

1800-1900, MR3

Thursday 12 July

INVITATION ONLY

Inter Operator Study: Progress report

1300-1345, MR3

Discuss progress on the labeling efforts, look at preliminary results and further analysis work. Discuss paper outline and key points.

Grant recipients

The ICRS 2012 Organising Committee have obtained funding from a number of sources to support the costs of delegates to attend the Symposium. While some grants were limited to a particular constituency, the majority of the generous support we received was free of such restrictions. The funds were targeted at postgraduate students and early career scientists and, in particular, those from developing nations, the Coral Triangle countries and the South West Pacific. In going to press we have so far supported over 120 people from 40 countries with grants to offset the costs of travel, accommodation and/or registration to attend ICRS 2012. We sincerely thank the sponsors for their generosity in enabling these delegates to attend ICRS 2012 in Cairns this July.

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Vineeta Hoon, India
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Continuing to go green

ICRS 2012 has built on the sustainable initiatives adopted at the 11th ICRS in Florida in 2008 to restrain the carbon and environmental foot print of the Symposium.

The Cairns Convention Centre is Australia's first environmentally designed major public building and has won many awards for its energy and resource conservation features. The Centre's double roof captures the seasonal tropical downpours, channelling rainwater into storage tanks. The Centre's water usage is modified by water flow restrictors on all outlets. Solar hot water heaters provide some 35% of the Centre's hot water needs. Shading devices reduce the level of air conditioning required to a minimum.

The Organising Committee has requested food that is sustainably and locally grown, wherever possible. We have also chosen not to supply bottled water. Instead, please take your water bottle and fill it at any of the water cooler stations. We are avoiding unnecessary packaging and plastic bags by serving food from buffets. Catering numbers have been carefully considered to reduce food wastage, and suitable un-used food will be given to a local charity helping people in need.

We have strived to use new media and electronic technology to reduce paper use, including keeping you updated about ICRS 2012 over the past three years with electronic newsletters. We have provided you with the Book of Abstracts and the Proceedings on a USB memory stick. Your name badge holder will be recycled into garden hose. Your satchel is made from materials and fittings which are sustainable and biodegradable and unwanted satchels can be left on your departure for donation to the *Satchels for School Project*. Any items that we have printed are on paper from responsible sources and are FSC (Forest Stewardship Council) approved. There are no paper inserts in your satchel and signage is printed on biodegradable material. We have favoured suppliers that use modern, energy-efficient technology, and requested that packaging be reduced when delivering services.

The Symposium venues and local hotels are easily accessible by foot which reduces the need to travel by vehicle. Many hotels have proactive waste, water and energy management practices. At the time of registration, we have encouraged you to offset your flight carbon emissions.

Sponsors

The Organising Committee expresses sincere gratitude to all of our generous sponsors for their commitment to ICRS 2012.

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Great Barrier Reef Marine Park Authority: Opening Ceremony and Climate Change Scientific Theme

Caring for our Country – Reef Rescue: Water Quality Impacts, and Management and Monitoring Scientific Themes

Great Barrier Reef Foundation: Genomic Scientific Theme

Ian Potter Foundation: Plenary Speakers: Jamaluddin Jompa and Helene Marsh

Virginia Chadwick Memorial Foundation: Plenary Speaker: Geoffrey Jones

Cairns Regional Council: Reef Trip

Rufford Small Grants Foundation: Lanyards

Bilikiki: Prize

Olympus: Prizes

Plenary speakers

Jane Lubchenco

Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator, USA



From science to policy: using science to inform coral reef conservation and management

0900-0945, Monday 9 July, Plenary Hall 2

On March 20, 2009 Jane Lubchenco was sworn in as the ninth and first woman Administrator of the National Oceanic and Atmospheric Administration (NOAA), an agency of the U.S. Department of Commerce.

Raised in Denver, Colorado, Lubchenco received a BA in biology from Colorado College, a Masters in zoology from the University of Washington and a PhD in ecology from Harvard University. Lubchenco has studied marine ecosystems around the world and championed the importance of science and its relevance to policy making and human well-being. Her scientific expertise includes oceans, climate change, and interactions between the environment and human well-being. While teaching at Harvard (1975-1977) and Oregon State University (1977-2009), she was actively engaged in discovery, synthesis, communication, and application of scientific knowledge.

A former president of the American Association for the Advancement of Science (AAAS), the International Council for Science and the Ecological Society of America, she served 10 years on the National Science Board (Board of Directors for the National Science Foundation). From 1999-2009 she led PISCO, a large 4-university, interdisciplinary team of scientists investigating the large marine ecosystem along the coasts of Washington, Oregon and California. Lubchenco co-founded three organizations that communicate scientific knowledge to the public, policy makers, the media and industry and also served on the Pew Oceans Commission, the Joint Oceans Commission Initiative, the Aspen Institute Arctic Commission and the Council of Advisors for Google Ocean.

Plenary speakers

Jamaluddin Jompa

Hasanuddin University, Indonesia

Scientific and management challenges in conserving the reefs in the Coral Triangle Region: lessons learnt from Indonesia

1400-1445, Monday 9 July, Plenary Hall 2

Jamaluddin Jompa is a Professor and Director of the Center for Coral Reef Research at Hasanuddin University in Makassar, Indonesia. He is one of Indonesia's prominent coral reef scientists and in 2007 established the Indonesian Coral Reef Society of which he is currently the Secretary. In addition to conducting research on coral reef ecology and management, especially in Eastern Indonesia, he has also been involved in helping the Indonesian Government as the Executive Secretary of one of the biggest coral reef management projects, the Coral Reef Rehabilitation and Management Program (COREMAP II). Jompa has also played important roles in the Coral Triangle Initiative (CTI) at both national and regional levels.



Denis Allemand

Centre Scientifique de Monaco, Monaco

Coral calcification: from cell physiology to ocean acidification

0830-0915, Tuesday 10 July, Plenary Hall 2

Denis Allemand is Professor of Biology at the University of Nice-Sophia Antipolis and Scientific Director of the Centre Scientifique de Monaco. He obtained his PhD in pharmacological sciences in 1986 from the University of Montpellier II (France). His main field of research is on comparative physiology of marine organisms, in particular reef-building corals. He has published over 100 refereed papers and numerous book chapters.



Allemand's recent work on corals has placed particular emphasis on both biomineralization and symbiosis in corals. He is interested in the mechanism of formation of the coral skeleton and more particularly on the physiology of skeletogenesis (ion transport, organic matrix characterization) and effects of environmental changes such as ocean acidification. He is also interested in the mutual adaptation of both partners (animal host and zooxanthellae) of the coral symbiotic association to the symbiotic state, and more particularly to the physiological, molecular and genomic relationship between zooxanthellae and their host.

He is a member of numerous scientific committees including the Scientific and

Technical Committee of the Foundation Prince Albert II, the Scientific Committee of the Oceanographic Institute – Foundation Prince Albert I, the Scientific Committee of the Ecole Pratique des Hautes Études, the Administration Council of the Observatoire Oceanologique de Villefranche/Mer and he is also a member of the European Academy of Arts, Sciences and Humanities. His interests also extend to archaeology and he has published extensively on his work in Provence.

Geoffrey Jones

James Cook University, Australia

Mission impossible: unlocking the secrets of larval fish dispersal on coral reefs

1400-1445, Tuesday 10 July, Plenary Hall 2

Geoffrey Jones is a Professor in the School of Marine and Tropical Biology and a member of the ARC Centre of Excellence for Coral Reef Studies. He completed his PhD at the University of Auckland in New Zealand and spent periods at the Universities of Melbourne, Sydney and Auckland before moving to James Cook University. He was awarded a Chair in 2006. He is one of the world's most cited authors in the fields of coral reef ecology and marine conservation biology, with over 160 refereed scientific publications in peer-reviewed journals and books.

His special interests are in the processes determining the structure and dynamics of reef fish populations, and strategies to reduce human impacts on threatened fish species. In 1995, he began to develop new approaches to determine the fate of reef fish larvae, which until that time had remained a mystery. Jones and collaborators were the first to tag and recapture marine fish larvae. He has since become a world leader in the field of marine population connectivity and its implications for the ecology, conservation and management of reef fish populations.

His recent studies in the understanding of local population connectivity demonstrate the benefits of marine reserve networks for reef fish conservation and sustainable harvesting.



Plenary speakers

Peter Kareiva

The Nature Conservancy, USA

Corals: resilient or fragile and how it matters to management?

0830-0915, Wednesday 11 July, Plenary Hall 2

Peter Kareiva is Chief Scientist and Vice President of The Nature Conservancy – the world's largest conservation Non-Government Organisation. He received his PhD in 1981 from Cornell University. He has been on the faculty at Brown University, Stanford University, University of Washington, and Santa Clara University. He has also worked for NOAA Fisheries, and in 2007 was elected to the American Academy of Arts and Sciences.

Kareiva has authored over 100 scientific articles in such diverse fields as mathematical biology, fisheries science, insect ecology, risk analysis, genetically engineered organisms, agricultural ecology, population viability analysis, landscape ecology and global climate change. He cofounded (with Gretchen Daily and Taylor Ricketts) the Natural Capital Project, which seeks to develop credible tools that allow routine valuation of Nature's assets (or ecosystem services) in a way that informs the choices governments and businesses make concerning natural resources.

In addition to conducting research, Kareiva believes that general communications and writing are essential in science, and has written (with Dr. Michelle Marvier) the conservation textbook *Conservation Science: Balancing the Needs of People and Nature* (Roberts & Company 2010).



Helene Marsh

James Cook University, Australia

Conserving coral reef megafauna: issues of ecological process, biodiversity, cultural diversity and food security

0830-0915, Thursday 12 July, Plenary Hall 2

Helene Marsh is Professor of Environmental Science and Dean of Graduate Research Studies at James Cook University. She was awarded her PhD from James Cook University. She is an international authority on the conservation biology of tropical coastal megafauna: dugongs, sea turtles and cetaceans. Marsh is committed to informing solutions to conservation problems and collaborates widely with natural and social scientists and stakeholders including Traditional Owners.

Much of Marsh's research and that of her post-doctoral fellows and 70+ research



students has been in the field of dugong population ecology and conservation. She has authored more than 150 publications (books, book chapters and papers). Her research has informed conservation planning and management in 11 countries. Marsh is Co-Chair of the IUCN Sirenia Specialist Group and is President-Elect of the International Society of Marine Mammalogy. Her contributions have been recognised by several international awards and by her election as a Fellow of the Australian Academy of Technological Sciences and Engineering.

Madeleine van Oppen

Australian Institute of Marine Science, Australia

Can old corals learn new tricks?

1400-1445, Thursday 12 July, Plenary Hall 2

Madeleine van Oppen is the Director of the Centre for Marine Microbiology and Genetics at the Australian Institute of Marine Science. She was trained in marine (molecular) ecology in the Netherlands. After having studied zooplankton communities and herbivorous coral reef fish (MSc), cold-water seaweeds (PhD in the Netherlands), and African cichlid fishes (postdoc in the UK), she started her research on reef corals in 1997 at James Cook University, Australia. In 2001 she moved to the Australian Institute of Marine Science, where she is a principal research scientist leading a program on the genetics/genomics of adaptation/acclimatisation and resilience of corals to climate change. She has authored over 90 peer reviewed journal articles.

Van Oppen has recently expanded her research program to include the development of genetic tools for certain coral reef management strategies and an assessment of the impacts and likely success of these management strategies (e.g., introduction of beneficial alleles into certain populations through translocation of corals harbouring such alleles).

In 2011 van Oppen was awarded a prestigious Australian Research Council Future Fellowship to study coral-associated viruses.



Plenary speakers

Ove Hoegh-Guldberg

University of Queensland, Australia

Coral reefs and global change: where do the solutions lie?

1515-1600, Friday 13 July, Plenary Hall 2

Ove Hoegh-Guldberg is Professor of Marine Studies, Director of the Global Change Institute at the University of Queensland and Deputy-Director of the ARC Centre of Excellence for Coral Reef Studies. He leads a research laboratory with over 25 researchers and postgraduate students who are focused on understanding global warming and ocean acidification and its effect on coral reefs.

Hoegh-Guldberg has published over 185 peer-reviewed publications and is Coordinating Lead Author for the 'Oceans' chapter within the IPCC 5th assessment report. He is the third most-cited author globally within the peer-reviewed literature on climate change (past 10 years). In addition to his research and administrative roles, he is also a regular contributor to the media, with his work featuring on the ABC (Catalyst), BBC (with Sir David Attenborough) and NBC (with Tom Brokaw). He is an active member of Climate Scientists Australia and maintains the science blog <http://www.climateshifts.org>.

Hoegh-Guldberg was recognised with the Eureka Prize in 1999 for research by an Australian scientist under 40. In 2009 he was awarded the Queensland Smart State Premier's Fellowship.



Darwin Medal Lecture

The Darwin Medal is awarded to a person of merit by the ISRS at each ICRS.

Jeremy Jackson

Smithsonian Institution and Scripps Institution of Oceanography

The future of corals and coral reefs in a rapidly changing world

0900-0945, Friday 13 July, Plenary Hall 2

Jeremy Jackson is Senior Scientist Emeritus at the Smithsonian Institution and Professor of Oceanography Emeritus at the Scripps Institution of Oceanography in La Jolla, California. He is also the Science Director of the Global Coral Reef Monitoring Network at the International Union for the Conservation of Nature. Professor Jackson studied at the George Washington University and Yale. He is the author of more than 150 scientific publications and author or editor of eight books. He studies human impacts on the oceans and the ecology and paleoecology of tropical marine ecosystems. Jackson is a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science, and recipient of numerous international prizes and awards including most recently the Roger Torrey Peterson Medal from Harvard University, the Paleontological Medal, the Society for Conservation Biology LaRoe Award for Outstanding Contributions to Conservation Biology, and the BBVA International Award for Research in Ecology and Conservation. Jackson's work on "historical overfishing and the recent collapse of coastal ecosystems" has been cited more than 2,000 times and was chosen by Discover magazine as the outstanding scientific achievement of 2001. Island Press recently published his latest book, *Shifting Baselines: The Past and Future of Ocean Fisheries*.

Jackson was Convenor of the 8th ICRC in Panama in 1996. His most recent contribution to coral reef conservation is his role as Director of the new IUCN administration of the Global Coral Reef Monitoring Network, for which he is striving to provide a new rigor to assessment of the global status of coral reefs.



Mini-Symposia schedule

The program comprises 72 Mini-Symposia that fall under one of 22 Symposia Themes.

Theme, Mini-Symposia, Chairs and Co-chairs Day of oral presentations

1. Reefs through time

<i>1A Reef & reef island geomorphology</i> Scott Smithers, Paul Kench, Chris Perry	Wednesday
<i>1B Reef response to sea-level & environmental changes</i> Jody Webster	Tuesday

2. Palaeontology

<i>2A Pantropical palaeontology of Cenozoic coral reefs</i> James Klaus, Kenneth Johnson	Wednesday
<i>2B Coral reefs: is the past the key to the future?</i> George Stanley, Dennis Hubbard	Wednesday

3. Evolution, biogeography & taxonomy

<i>3A Evolution, biogeography & taxonomy</i> John Pandolfi	Thursday & Friday
<i>3B Genetically-based species recognition: microbes to vertebrates</i> Todd LaJeunesse, James Reimer, Michael Hellberg	Monday
<i>3C The new age of coral taxonomy</i> Michel Pichon, Carden Wallace, Francesca Benzoni	Friday

4. Biophysical processes

<i>4A Water motion, abiotic & biotic processes on coral reefs</i> James Hench, Hunter Lenihan	Wednesday & Thursday
<i>4B Chemical ecology of coral reef ecosystems</i> Valerie Paul, Jennifer DeBose	Wednesday
<i>4C Coral reef response to multiple stresses: organisms to ecosystems</i> Hajime Kayanne, Michio Hidaka	Thursday & Friday

5. Technologies for coral reef science

<i>5A Remote sensing of reef environments</i> Gang Liu, Chris Roelfsema, Stuart Phinn, Stacy Jupiter, Alastair Harborne, James Goodman, William Skirving, Scarla Weeks, Vittoria Brando	Monday & Tuesday
<i>5B Sensor networks & their applications</i> James Hendee, Ruben van Hooiconk, Lew Gramer	Wednesday
<i>5C Genomics & proteomics as tools for detecting sub-lethal stress</i> Robert Richmond, Cheryl Woodley, Craig Downs	Wednesday
<i>5D Robots & machine learning techniques aiding coral reef science</i> Oscar Pizarro, David Kline, Robin Beaman, Greg Mitchell	Monday

6. Physiology & functional biology

<i>6A Cell & molecular biology of symbiosis</i> Simon Davy, Alex Venn, Virginia Weis	Monday & Tuesday
<i>6B Mechanisms of calcification</i> Sylvie Tambutté, Michael Holcomb, Anne Cohen	Tuesday & Wednesday
<i>6C Coral physiology & energetics</i> Christine Ferrier-Pagès, Andrea Grottoli, Stephen Levas	Wednesday & Thursday
<i>6D Coral physiology under ocean acidification</i> Sophie Dove	Tuesday

7. Genomic approaches to coral reef biology

<i>7A Genomic approaches to coral reef biology</i> Christian Voolstra, David Miller, Timothy Ravasi, Sylvain Forêt	Thursday & Friday
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8. Ocean acidification

<i>8A Organism & ecosystem responses to ocean acidification</i> Malcolm McCulloch	Friday
<i>8B Carbonate chemistry feedbacks within reef habitats</i> Ryan Moyer, Dwight Gledhill, Kimberly Yates, Russell Brainard	Monday
<i>8C Coral calcification & accretion</i> Ilsa Kuffner, Andreas Andersson, Nicholas Bates	Thursday

Mini-Symposia schedule

<i>16B Coral-microbe interactions & disease</i> Greta Aeby, Yui Sato, Tracy Ainsworth, David Bourne, Bette Willis, Drew Harvell, Laurie Raymundo	<i>Wednesday & Thursday</i>
<i>16C Immune defenses of coral reef organisms</i> Laura Mydlarz, Nikki Traylor-Knowles	<i>Friday</i>
<i>16D Functional roles of microbes in reef ecosystems</i> Max Teplitski, Kim Ritchie	<i>Tuesday</i>
17. The Coral Triangle Initiative	
<i>17A Science to support the Coral Triangle Initiative</i> Helen Fox, Carissa Klein, Maurice Knight, Lida Pet	<i>Monday & Tuesday</i>
<i>17B Marine protected areas & networks in the Coral Triangle</i> Alan White, Patrick Christie, Porfirio Aliño, Alison Green	<i>Tuesday</i>
<i>17C Regional-scale design & local-scale actions for marine conservation</i> Bob Pressey, Rebecca Weeks	<i>Monday</i>
<i>17D Managing bleached coral reefs</i> Thamasak Yeemin, Dr Suharsono, Porfirio Aliño	<i>Wednesday</i>
18. Management & monitoring	
<i>18A Evaluating management success</i> Laurence McCook	<i>Monday & Tuesday</i>
<i>18B Managing coral reef ecosystems under a changing climate</i> Roger Beeden, David Wachenfeld, Paul Marshall, Chloe Schauble	<i>Wednesday & Thursday</i>
<i>18C Spatially-explicit & multi-disciplinary approaches for coral reef conservation</i> Serge Andréfouët, Julie Scopelitis, Samuel Purkis, Ameer Abdulla, Johnathan Kool	<i>Tuesday & Wednesday</i>
<i>18D Strengthening science-management partnerships</i> Steven Thur	<i>Friday</i>
<i>18E The future of the Coral Sea reefs & sea mounts</i> Eric Clua, Clive Wilkinson	<i>Wednesday</i>
<i>18F Does monitoring lead to improved coral reef management?</i> Jerker Tamelander, Gregor Hodgson, Christy Loper, Clive Wilkinson	<i>Thursday & Friday</i>

19. Human impacts on coral reefs	
<i>19A Human impacts on coral reefs</i> Natalie Ban, Sheila McKenna	<i>Tuesday</i>
<i>19B Coral reef resilience, conservation & management</i> David Obura, Paul Marshall, Alison Green, Ameer Abdulla, Jerker Tamelander, Stephanie Wear	<i>Monday</i>
<i>19C Trade in coral reef wildlife</i> Cara Cooper, Daniel Thornhill, Barbara Best, Brian Tissot	<i>Wednesday</i>
<i>19D Managing fish spawning aggregations</i> Yvonne Sadovy de Mitcheson, Martin Russell	<i>Thursday</i>
20. Restoration of coral reefs	
<i>20A Restoration of coral reefs</i> James Guest, Andrew Bauman, Buki Rinkevich	<i>Wednesday</i>
21. Water quality: impacts & management	
<i>21A Watershed management & reef pollution</i> Greg Piniak, Michelle Devlin, Jon Brodie, Kathy Chaston, Paul Sturm, Curt Storlazzi, Piers Larcombe	<i>Monday</i>
<i>21B Enhancing coral reef resilience through management of water quality</i> Frederieke Kroon, Britta Schaffelke	<i>Friday</i>
<i>21C Exploited lagoons</i> Nabila Gaertner-Mazouri, Yannick Gueguen, Loïc Charpy	<i>Tuesday</i>
22. Social, economic & cultural perspectives	
<i>22A Cultural, political & historical dimensions of coral reef management</i> Simon Foale, Michael Fabinyi	<i>Thursday & Friday</i>
<i>22C Management of coral reefs in regions of high biocultural diversity</i> Alana Grech, Stacy Jupiter, Bob Pressey	<i>Thursday</i>
<i>22D Economic valuation & market-based conservation</i> Nathalie Hilmi, Jos Hill	<i>Thursday</i>

Monday 9 July Program

Mini-Symposia index for oral presentations

Mini-Symposium	Time	Room
3B Genetically-based species recognition: microbes to vertebrates	1000-1745	Sebel Tully
5A Remote sensing of reef environments	1500-1745	Sebel Mossman
5D Robots & machine learning techniques aiding coral reef science	1000-1300	Sebel Mossman
6A Cell & molecular biology of symbiosis	1000-1800	MR1
8B Carbonate chemistry feedbacks within reef habitats	1000-1300	MR5
9A Coral bleaching & climate change	1630-1800	Plenary Hall 2
9B Coral communities in extreme environments	1000-1600	Plenary Hall 2
10A Modelling reef futures	1000-1600	Hall C
13B Changing role of fishes in coral reef ecosystems	1000-1800	Hall D
13D Reef sharks & coral reefs	1000-1715	Hall A
14B Larval & settlement behaviour of coral reef organisms	1630-1730	Hall C
15A Biodiversity & systematics	1500-1730	MR5
17A Science to support the Coral Triangle Initiative	1500-1730	Sebel Bluewater
17C Regional-scale design & local-scale actions for marine conservation	1000-1300	Sebel Bluewater
18A Evaluating management success	1000-1745	Hall B
19B Coral reef resilience, conservation & management	1000-1800	Sebel Kuranda & management
21A Watershed management & reef pollution	1000-1800	MR3

Monday 9 July Program

Scientific program at a glance

0830	Plenary Hall 2 Opening Ceremony												
0900	Plenary Hall 2 Jane Lubchenco Plenary: From science to policy												
	Plenary Hall 2	Hall A	Hall B	Hall C	Hall D	MR1		MR3	MR5	Sebel Tully	Sebel Kuranda	Sebel Mossman	Sebel Bluewater
1000	9B: Coral communities in extreme environments	13D: Reef sharks & coral reefs	18A: Evaluating management success	10A: Modelling reef futures	13B: Changing role of fishes in coral reef ecosystems	6A: Cell & molecular biology of symbiosis		21A: Watershed management & reef pollution	8B: Carbonate chemistry feedbacks within reef habitats	3B: Genetically-based species recognition	19B: Coral reef resilience, conservation & management	5D: Robots & machine learning techniques aiding coral reef science	17C: Regional scale design & local-scale actions for marine conservation
1045	Morning tea												
1115	9B	13D	18A	10A	13B	6A		21A	8B	3B	19B	5D	17C
1300	Lunch (Cairns Convention Centre)												
1400	Plenary Hall 2 Jamal Jompa Plenary: Reefs in the Coral Triangle												
1500	9B	13D	18A	10A	13B	6A		21A	15A: Biodiversity & systematics	3B	19B	5A: Remote sensing of reef environments	17A: Science to support the CTI
1600	Afternoon tea												
1630	9A: Coral bleaching & climate change	13D	18A	14B: Larval & settlement behaviour of coral reef organisms	13B	6A		21A	15A	3B	19B	5A	17A
1800	Hallway around Plenary Hall 2 Poster Reception												

Create your own daily program for Monday 9 July

Time	Presenter	Venue	Room Number
0830-0900	Opening Ceremony	Cairns Convention Centre	Plenary Hall 2
0900-0945	Jane Lubchenco Plenary	Cairns Convention Centre	Plenary Hall 2
0945-1000	Transition		
1000			
1015			
1030			
1045-1115	Morning tea		
1115			
1130			
1145			
1200			
1215			
1230			
1245			
1300-1400	Lunch		
1400-1445	Jamal Jompa Plenary	Cairns Convention Centre	Plenary Hall 2
1445-1500	Transition		
1500			
1515			
1530			
1545			
1600-1630	Afternoon tea		
1630			
1645			
1700			
1715			
1730			
1745			
1800-1930	Poster Reception	Cairns Convention Centre	Hallways adjoining Plenary Hall 2

Monday 9 July Oral presentation program

* Indicates presenter

Theme 3: Evolution, biogeography & taxonomy

1000 – 1745	3B Genetically-based species recognition: microbes to vertebrates
Room	Sebel Tully
Chair	Todd LaJeunesse
1000	The impact of species recognition on coral-dinoflagellate symbioses research <i>*LaJeunesse, Todd</i>
1015	Biodiversity of coral reef zoanthids: how many species? <i>*Reimer, James</i>
1030	Changes in symbiont types in juveniles of the coral <i>Acropora tenuis</i> at different depths <i>*Harii, Saki, Frederic Sinniger, Yoshikatsu Nakano, Michio Hidaka</i>
1045 – 1115	Morning tea
1115	Mitogenomic of medusozoans provides insights on the evolution of linear mtDNA in the group <i>*Kayal, Ehsan, Beatrice Roure, David Smith, Stacy Pirro, Angel Yanagihara, Mohsen Kayal, Bastian Bentlage, Herve Philippe, Allen Collins, Dennis Lavrov</i>
1130	Development and testing of molecular barcodes for Octocorallia <i>*McFadden, Catherine, Adam Brown, Leen van Ofwegen</i>
1145	Identification of a shell color-linked marker in the Noble Scallop <i>*Yuan, Tao, Maoxian He, Liangmin Huang, Hui Huang</i>
1200	Host-specialist lineages dominate the adaptive radiations of endosymbiotic dinoflagellates (<i>Symbiodinium</i>) <i>*Thornhill, Daniel, Todd LaJeunesse</i>
1215	Can corals evolve new zooxanthellae preference? <i>Matz, Mikhail, *Sarah Guermond, Carly Kenkel, Galina Aglyamova</i>
1230	Host-symbiont interactions at the sub-clade level influence holobiont thermal resistance <i>*Parkinson, John, Todd LaJeunesse, Iliana Baums</i>
1300-1400	Lunch

Monday 9 July Oral presentation program

3B cont.

1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Early ontogeny of cnidarian-algal symbioses – observations and future research directions *Coffroth, Mary Alice, Shelby McLroy, Daniel Poland, Noel Leigh, Philip Gillette, Margaret Miller, Anke Klueter
1515	Biodiversity forensics: what do genetic barcodes tell us about echinoderms? *Michonneau, Francois, Sarah McPherson, P. Mark O'Loughlin, Gustav Paulay
1530	Molecular taxonomy reveals new Echinometra species *Bronstein, Omri, Yossi Loya
1600 – 1630	Afternoon tea
1630	Population isolation and introgression in Eastern Pacific <i>Porites</i> *Hellberg, Michael, Carlos Prada-Montoya, Zac Forsman, Nick Polato, Iliana Baums
1645	Being yellow or brown: ecological and molecular base for colour adaptation in a marine fish *Cortesi, Fabio, Walter Salzburger, Karen Cheney, Justin Marshall
1700	The intrageneric classification of Melithaeidae *Shikiba, Haruka, Masanori Nonaka, James Davis Reimer
1715	Delimiting species of <i>Symbiodinium</i> with concordant genetic data *Wham, Francis, Todd LaJeunesse, James Reimer
1730	Symbiont diversity in Vietnam: latitude, environment and host reproductive mode *Hellstrom, Micaela, Sarah Mak, Sara Windahl, Nils Hedberg

Theme 5: Technologies for coral reef science

1500 – 1800	5A Remote sensing of reef environments
Room	Sebel Mossman
Chair	Chris Roelfsema
1500	Mapping reef dynamics at multiple scales: Patch-Community, Heron Reef *Roelfsema, Chris, Stuart Phinn, Jo Edkins
1515	Next-generation high-resolution thermal stress monitoring for the Great Barrier Reef Spillman, Claire, Scott Heron, Craig Steinberg, Luke Garde, *Mike Mahoney, Jeffrey Maynard, William Skirving, Tim Burgess, C. Mark Eakin
1530	High-resolution thermal stress indices for regional coral bleaching forecasts *Vega-Rodriguez, Maria, Frank Muller-Karger, Jianke Li, C. Mark Eakin, Liane Guild, Chuanmin Hu, Gang Liu, Susan Lynds, Gabriel Quiles-Perez, Rama Nemani
1545	AVHRR and MTSAT sea surface temperature products for the Australian region *Majewski, Leon, George Paltoglou, Helen Beggs
1600 – 1630	Afternoon tea
1630	Ocean colour remote sensing of the Great Barrier Reef waters *Slivkoff, Matthew, Miles Furnas, Merv Lynch
1645	Spatio-temporal patterns of water clarity on the Great Barrier Reef *Weeks, Scarla, Jeremy Werdell, Richard Brinkman, Zhongping Lee, Marites Canto, Britta Schaffelke
1700	Remote sensing optically shallow waters of the Great Barrier Reef using MODIS imagery *McKinna, Lachlan, Peter Fearn, Scarla Weeks, Miles Furnas, Gene Feldman, ZhongPing Lee
1715	Great Barrier Reef phytoplankton bloom dynamics derived from satellite data *Blondeau-Patissier, David, Arnold G. Dekker, Vittorio E. Brando, Stuart R. Phinn, Scarla J. Weeks, Thomas Schroeder
1730	Optical coral reef monitoring system in Sasa Bay, Guam *Richter, Ken, William Wild, Gregory Anderson

Monday 9 July Oral presentation program

1000 – 1300	5D Robots & machine learning techniques aiding coral reef
Room	Sebel Mossman
Chair	Oscar Pizarro
1000	Advanced reef mapping and monitoring with autonomous underwater vehicles <i>*Pizarro, Oscar, Stefan Williams, Michael Jakuba, Matthew Johnson-Roberson, Daniel Steinberg, Ariell Friedman, Christian Lees, Andrew Durrant</i>
1015	Texture and color distribution-based classification for live coral detection <i>*Stough, Joshua, Lisa Greer, Matt Benson, William Sullivan</i>
1030	High-definition rotating videos for monitoring reef fish and habitats <i>*Mallet, Delphine, Dominique Pelletier, Laurent Wantiez, Laurent Vigliola</i>
1045 – 1115	Morning tea
1115	Wide field of view full spectrum fluorescence imaging for coral ecology <i>*Treibitz, Tali, Ben Neal, Paul Roberts, David I. Kline, Oscar Beijbom, Serge Belongie, Jules Jaffe, David Kriegman, Greg B. Mitchell</i>
1130	Automatic benthic imagery categorisation using hierarchical Bayesian clustering <i>*Steinberg, Daniel, Oscar Pizarro, Stefan Williams</i>
1145	Interpreting benthic stereo imagery using appearance and 3D structure <i>*Friedman, Ariell, Daniel Steinberg, Oscar Pizarro, Stefan Williams</i>
1200	Automated coral reef image annotation using computer vision <i>*Beijbom, Oscar, Tali Treibitz, Ben Neal, David Kriegman, Serge Belongie, Peter Edmunds, David Kline, Gregory Mitchell</i>
1215	Measuring reef complexity and rugosity from monocular video bathymetric reconstruction <i>*He, Hu, David McKinnon, Renata Ferrari, George Roff, Ryan Smith, Peter Mumby, Ben Upcroft</i>
1230	Computer vision and data mining methods applied to the recognition of coral specimens <i>*Landry, Jacques-André, Jonathan Bouchard</i>

1245	Quantifying spatial and temporal dynamics of deep reefs AUV technology <i>*Radford, Ben, Oscar Pizarro, Stefan Williams, Jamie Colquhoun, Andrew Heyward, Cordelia Moore, Mike Jakuba, Mike Sexton, Tim Cooper</i>
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Theme 6: Physiology & functional biology

1000 – 1800	6A Cell & molecular biology of symbiosis
Room	MR1
Chair	Simon Davy
1000	Whole organism responses to pre-bleaching thermal stressors <i>*Ainsworth, Tracy, William Leggat, David Bourne, Bette Willis</i>
1015	A lipidomic approach to understanding cnidarian-dinoflagellate symbiosis <i>*Dunn, Simon, Michael Thomas, Geoffrey Nette, Sophie Dove</i>
1030	Stress resistance determined by <i>Symbiodinium</i> type in a model system <i>*DeNofrio, Jan, Veena Singla, Tingting Xiang, Dimitri Tolleter, Tamaki Bieri, Arthur Grossman, John Pringle</i>
1045 – 1115	Morning tea
1115	Caspase-controlled coral bleaching: is it common? <i>*Seneca, Francois, Dimitri Tolleter, Daniel Barshis, Stephen Palumbi, Arthur Grossman</i>
1130	<i>Symbiodinium</i> under thermal stress: type specificity in the antioxidative response <i>*Krueger, Thomas, Paul Fisher, Sophie Dove, Ove Hoegh-Guldberg, William Leggat, Simon Davy</i>
1145	Effects of temperature on integrin distribution in the aposymbiotic anemone <i>Aiptasia pulchella</i> <i>*Sawyer, Sara, Alicia Rose</i>
1200	NanoSIMS study of ammonium assimilation by the coral <i>Pocillopora damicornis</i> <i>*Kopp, Christophe, Mathieu Pernice, Isabelle Domart-Coulon, Chakib Djediat, Anders Meibom</i>

Monday 9 July Oral presentation program

6A cont.

1215	Rhodopsin-based visual system in coral larvae *Mason, Benjamin, Michael Schmale, Margaret Miller, Valery Shestopalov, Vladlen Slepak
1230	Impacts of thermal stress on sphingolipid metabolism in <i>Aiptasia pallida</i> *Kitchen, Sheila, Virginia Weis
1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Photosynthesis induced changes in intracellular pH in the coral-algal symbiosis *Laurent, Julien, Sylvie Tambutté, Eric Tambutté, Denis Allemand, Alexander Venn
1515	Genetic regulation of zooxanthella uptake and regulation in sponges *Hill, Malcolm, Crystal Richardson, Kristin Peterson, Carlos Cotman, Mark McCauley, Brian Strehlow, April Hill
1530	Revisiting the nature of sexual reproduction in <i>Symbiodinium</i> *Frommlet, Jörg C., Cláudio Brandão, David J. Suggett, João Serôdio
1545	The role of complement in cnidarian-dinoflagellate symbiosis *Poole, Angela, Virginia Weis
1600 – 1630	Afternoon tea
1630	Normal <i>Symbiodinium</i> lipid synthesis are prerequisite for the symbiont-Anemone recognition *Wang, Li-Hsueh, Li-Shing Fang, Chii-Shiarng Chen
1645	Nitric oxide production in <i>Symbiodinium</i> cells varies among different genotypes *Hawkins, Thomas, Simon Davy
1700	Antioxidant genes in symbiotic algae from the genus <i>Symbiodinium</i> *Fisher, Paul, Thomas Krueger, Sophie Dove, Ove Hoegh-Guldberg, Bill Leggat, Simon Davy
1715	<i>Symbiodinium</i> clade dynamic in corals facing environmental stressors in Moorea *Se Rouzé, Héloïse, Denis Saulnier, Benoit Espiau, Gaël Lecellier, Serge Planes, Véronique Berteaux-Lecellier

1730	Coral recruits obtain energy from algae prior to <i>Symbiodinium</i> acquisition *Ward, Selina, Christopher Doropoulos, George Roff
1745	Does intracellular pH regulate the cell-cycle in <i>Symbiodinium</i> ? *Gibbin, Emma, Simon Davy

Theme 8: Ocean acidification

1000 – 1300	8B Carbonate chemistry feedbacks within reef habitats
Room	MR5
Chair	Ryan Moyer
1000	Causes and consequences of variable carbonate chemistry over reef communities *Price, Nichole, Todd Martz, Russell Brainard, Forest Rohwer, Stuart Sandin, Jennifer Smith
1015	Permeable carbonate sands modify the carbon chemistry of coral reef waters *Eyre, Bradley, Isaac Santos, Tyler Cyronak
1030	Community metabolism and Revelle factor cause rapid amplification of coral reef pCO ₂ *McNeil, Ben, Emily Shaw, Bronte Tilbrook, Richard Matear
1045 – 1115	Morning tea
1115	The combined influence of metabolism and hydrodynamics on the carbonate chemistry of coral reef waters *Falter, James, Ryan Lowe, Zhenlin Zhang, Malcolm McCulloch
1130	pH and pCO ₂ sensors to monitor acidification on coral reefs *Chauvin, Anne, Pascale Cuet, Marlin J. Atkinson, Lionel Bigot, Yanick Clain, Daniel W. H. Schar, Emmanuel Cordier, Charles Young
1145	Drivers of seawater carbonate chemistry on Davies Reef (central GBR) *Albright, Rebecca, Ken Anthony
1200	Quantifying inter-island variability in Aragonite saturation state *Young, Charles, Jamison Gove, Russell Brainard

Monday 9 July Oral presentation program

88 cont.

1215	Mg-calcite dissolution rate determined by field observation and laboratory experiment *Yamamoto, Shoji, Hajime Kayanne, Tatsuki Tokoro, Tomohiro Kuwae, Takashi Nakamura, Atsushi Watanabe, Kazuo Nadaoka
1230	Complex feedbacks between coral reef metabolism and air-sea CO ₂ fluxes *Bates, Nicholas, Andreas Andersson, Samantha de Putron, Andrew Collins, Timothy Noyes, Christopher Sabine
1245	Linking seasonal changes in benthic community structure to seawater chemistry *Moyer, Ryan, Greg Piniak, Shay Viehman, Wade McGillis, Brice Loose, Dwight Gledhill
1250	Evidence of ocean acidification in seawater around Ishigaki Island *Watanabe, Atsushi, Kazuo Nadaoka, Hajime Kayanne, Takashi Nakamura
1255	Time-series and process investigations at the Atlantic Ocean acidification test-bed *Gledhill, Dwight, Chris Langdon, Wade McGillis, Jorge Corredor, Brice Loose, Melissa Melendez, Derek Manzello, Greg Piniak, Ryan Moyer, Chris Sabine

Theme 9: Climate change & bleaching

1630 – 1800	9A Coral bleaching & climate change
Room	Plenary Hall 2
Chair	Ray Berkelmans
1630	The changing thermal environment for tropical coral reefs *Lough, Janice
1645	Historical thermal regimes define limits to acclimatisation in reef corals *Howells, Emily, Ray Berkelmans, Madeleine van Oppen, Bette Willis, Line Bay
1700	Life on the edge: corals in mangroves and climate change *Rogers, Caroline, James Herlan
1715	Are adjacent corals sources of <i>Symbiodinium</i> for bleached coral recovery? *Winter, Rivah, Paul Jones, Andrew Baker

1730	Spatial variability of coral bleaching in Palau during a regional thermal stress event in 2010 *Idechong, Jacques, Yimnang Golbuu, Adelle Isechal, Steven Victor, Rob van Woessik
1745	Acclimate and adapt? How will corals respond to future climate change? *Palumbi, Steve, Dan Barshis, Tom Oliver, Jason Ladner, Rachael Bay
1000 – 1600	9B Coral communities in extreme environments
Room	Plenary Hall 2
Chair	Joerg Wiedenmann
1000	Extreme heat-adaptability and coral population responses to climate extremes *Riegl, Bernhard, Sam Purkis, Ashraf Al-Cibahy, Alaa Abdel-Moati
1015	A short-term exposure to elevated temperature on coral mesocosm study *Liu, Pi-Jen, Anderson B Mayfield, Pei-Jie Meng, Chia-Ming Chang, Min-Chieh Hsin, Hsing-Juh Lin
1030	Kuwait off-shore coral reefs and extreme environment *Alhazeem, Shaker, Michel Pichon, Manaf Behbehani, Adel Alsaffar, Mohammad Al-Kandari, Ali Al-Mousawi

1045 – 1115 Morning tea

1115	PAM chlorophyll fluorometry for monitoring health of corals along the coast of Qatar *Richard, Cecile, Eric Febbo, Adeyinka Adenekan, Edouard Hörlin, Romain Le Gall, Thibault Schwartz, Benoit Sandjian, Eric Dutrieux
1130	Effects of coral bleaching and recovery potential of coral reefs at Mu Koh Surin, the Andaman Sea *Yucharoen, Mathinee, Thamasak Yeemin
1145	Susceptibility of Red Sea corals to a major bleaching event *Furby, Kathryn, Michael Berumen, Jessica Bouwmeester
1200	Southern frontiers: ecology of subtropical coral communities of southeast Australia *Sommer, Brigitte, Peter L. Harrison, Maria Beger, John M. Pandolfi

Monday 9 July Oral presentation program

9A cont.

1215	Patterns of coral recruitment in an extreme environment: Persian Gulf *Bauman, Andrew, John Burt, Andrew Baird, Morgan Pratchett
1230	Responses of Gulf corals to temperature stress *D'Angelo, Cecilia, Benjamin Hume, John Burt, Joerg Wiedenmann
1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Setting coral salinity thresholds for mapping freshwater flood plumes *Berkelmans, Ray, Alison Jones
1515	Socotra (2000-2011): recovery, resilience and refugia in an upwelling environment *Klaus, Rebecca, Uwe Zajonz, Malek Abdul-Aziz, Fouad Nasseb Saeed, Thabet Adbullah Khamis, Salah Saeed Ahmed, Maren Ziegler, Lyndon DeVantier, Friedhelm Krupp
1530	The genetic diversity of coral-dinoflagellate symbioses in the Red Sea *Banguera-Hinestroza, Eulalia, Yvonne Sawall, Drew Wham, Julia Schnetzer, Cornelia Roder, Todd LaJeunesse, Christian Voolstra
1545	Long-term bleaching impacts on the worlds warmest reefs *Burt, John, Suaad Al-Harhi, Ashraf Al-Cibahy

Theme 10: Modelling reef futures

1000 – 1600	10A Modelling reef futures
Room	Hall C
Chair	C. Mark Eakin
1000	Ghost of bleaching future: seasonal outlooks from NOAA's Operational Climate Forecast System *Eakin, C. Mark, Gang Liu, Mingyue Chen, Arun Kumar
1015	Modelling tropical cyclone impacts on the world's coral reefs *Puotinen, Marji, Adam Carrigan
1030	Climate change vulnerability maps for coral reefs in Micronesia *Maynard, Jeffrey, Elizabeth McLeod, Peter Houk, Yimnang Golbuu, Steven McKagan, Annick Cros, Scott Heron, Janice Lough, Rodney Salm
1045 – 1115	Morning tea

1115	Analysis of coral reef resilience: a generic modelling tool *Kubicek, Andreas, Hauke Reuter
1130	Predicting Caribbean coral reef futures using IPCC AR5 models *Van Hooionk, Ruben
1145	The effects of sea-level rise on reef-flat food webs *Harborne, Alastair, Yves-Marie Bozec
1200	Effects of rising sea surface temperature and ocean acidification on corals Yara, Yumiko, Meike Vogt, Claudine Hauri, Marco Steinacher, *Masahiko Fujii, Hiroya Yamano, Yasuhiro Yamanaka, Nicolas Gruber
1215	Seasonal dynamical prediction of coral bleaching risk for reef management *Spillman, Claire
1230	Climate impacts on hydrodynamics and sediment dynamics at reef islands *Golshani, Aliasghar, Tom Baldock, Peter J. Mumby, David Callaghan, Peter Nielsen, Stuart Phinn
1245	Maintenance of positive carbonate budgets requires local and global action *Kennedy, Emma, Paul Halloran, Chris Perry, Roberto Iglesias-Prieto, Juan Pablo Carricart-Ganivet, Max Wisshak, Christine Schönberg, Armin Form, Maoz Fine, Peter Mumby
1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Implementing the end-to-end ecosystem model Atlantis on the Great Barrier Reef *Savina-Rolland, Marie, Scott Condie, Roland Pitcher, Beth Fulton, Bec Gorton, Ian McLeod
1515	Anthropogenic aerosol emissions drive variations in Caribbean coral growth *Kwiatkowski, Lester, Peter Cox, Peter Mumby, Paul Halloran
1530	Physiologically relevant bleaching threshold methods provide updated global coral bleaching projections *Logan, Cheryl A., John Dunne, C. Mark Eakin, Simon Donner
1545	Global versus local stressors and the vulnerability of future reefs *Anthony, Ken

Monday 9 July Oral presentation program

Theme 13: Fish & fisheries

1000 – 1800	13B The changing role of fishes in coral reef ecosystems
Room	Hall D
Chair	David Bellwood
1000	The changing role of fishes on reefs: an evolutionary perspective <i>*Bellwood, David, Peter Cowman, Christopher Goatley</i>
1015	Herbivory and sea urchin predation on Ningaloo Reef, Western Australia <i>*Johansson, Charlotte, David Bellwood, Martial Depczynski</i>
1030	Are habitats important in mediating range shifts in tropical fishes? <i>*Beck, Hayden, David Feary, David Booth</i>
1035	Habitat use and distribution patterns of the monocle bream (Nemipteridae) <i>*Boaden, April, Michael Kingsford</i>
1045 – 1115	Morning tea
1115	Mesocarnivorous fishes facilitate macroalgae and suppress corals in a Caribbean reef ecosystem <i>*Burkepile, Deron, Jake Allgeier, Andrew Shantz, Catharine Pritchard, Nathan Lemoine, Laura Bhatti, Craig Layman</i>
1130	The ecological role of grazing surgeonfish on Heron Island reef <i>*Marshall, Alyssa, Peter J. Mumby</i>
1145	How top-down control by predatory fishes and humans influence reefs <i>*Friedlander, Alan, Edward DeMartini, Eric Brown, Jim Beets, Jeff Miller</i>
1200	Human influence on fish biodiversity facets in the Pacific <i>*D'agata, Stephanie, David Mouillot, Michel Kulbicki, Peter Cowman, David Bellwood, Laurent Vigliola</i>
1215	Differential grazer effects influence algal composition and development in Kenya <i>*Humphries, Austin, Tim McClanahan</i>
1230	Stop motion dynamics: inferring reef fish functional roles across ecosystem states <i>MacNeil, Aaron, *Nick Graham, Tim McClanahan, Alistair Cheal</i>
1245	Reef fish feeding impact on benthos remarkably varies with latitude <i>*Longo, Guilherme, Carlos Ferreira, Sergio Floeter</i>

1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Observing fish behaviour from space <i>*Madin, Elizabeth</i>
1515	Influence of habitat condition and competition on foraging behaviour of parrotfish <i>*Nash, Kirsty, Nick Graham, David Bellwood</i>
1530	Feeding plasticity of reef fish <i>*Curtis-Quick, Jocelyn, David. J Smith</i>
1545	Macroalgal removal and feeding selectivity of fishes on subtropical reefs <i>*Mendes, Thiago, Carlos Eduardo Ferreira</i>
1600 – 1630	Afternoon tea
1630	Systematic effects of fishing on global coral reef herbivore populations <i>*Edwards, Clinton, Alan Friedlander, Alison Green, Stuart Sandin, Jennifer Smith</i>
1645	Fishing down nutrients: altering coral reef ecosystems from the bottom up <i>*Allgeier, Jacob, Craig Layman, Peter Mumby, Amy Rosemond</i>
1700	Spatial ecology of the steephead parrotfish (<i>Chlorurus microrhinos</i>) <i>*Welsh, Justin, David Bellwood</i>
1715	Biological traits predict movement patterns in coral reef fish <i>Tyler, Elizabeth, Fernando Cagua, Alexander Vail, Andrea Manica, *Michael Berumen</i>
1730	Acoustic telemetry and network theory find herbivores display 'small-world' dynamics <i>*Fox, Rebecca, David Bellwood</i>
1745	The indirect effects of predation on coral reef fishes <i>*Zgliczynski, Brian, Alan Friedlander, Scott Hamilton, Stuart Sandin</i>
1750	The function of pair-formation in the rabbitfish <i>Siganus doliatus</i> <i>*Brandl, Simon, David Bellwood</i>

Monday 9 July Oral presentation program

Theme 13: Fish & fisheries

1000 – 1715 13D Reef sharks & coral reefs

Room	Hall A
Chair	Andrew Chin
1000	Where do reef sharks go when they're not on reefs? *Chin, Andrew, Colin Simpfendorfer, Michelle Heupel, Andrew Tobin
1015	The role of non-resident sharks in shaping coral reef communities *Simpfendorfer, Colin, Michelle Heupel, Andrew Tobin
1030	The current status of sharks in the Red Sea *Spaet, Julia, Gregory Skomal, Michael Berumen

1045 – 1115 Morning tea

1115	Comparative abundance of reef sharks in the Western Indian Ocean *Ormond, Rupert, Chris Clarke, James Lea
1130	Apex predators and human populations as structuring agents on coral reefs *Ruppert, Jonathan, Laurent Vigliola, Marie-Jose Fortin, Mark Meekan
1145	Coral reefs: apex predator paradise or mesopredator nirvana? *Heupel, Michelle, Colin Simpfendorfer, Nick Dulvy
1200	Evidence of fragmented reef shark populations in the insular Pacific *Vignaud, Thomas, Johann Mourier, Eric Clua, Serge Planes
1215	Taken out of context: the effects of shark removal in the dynamic environment of a coral reef *Meekan, Mark, Marie Josee Fortin, Mike Travers, James Gilmour, Jonathan Ruppert

1300 – 1400 Lunch

1400 – 1500 Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2

1500	Marine parks for reef sharks: shark movements at Ningaloo Reef *Speed, Conrad, Mark Meekan, Iain Field, Clive McMahon, Rob Harcourt, John Stevens, Richard Pillans, Rory McAuley, Corey Bradshaw
1515	Estimating the abundance of apex predators: a comparison of methods *Frisch, Ashley J., Justin Rizzari
1530	Acoustic monitoring of a Red Sea whale shark aggregation *Cochran, Jesse, Simon Thorrold, Gregory Skomal, Michael Berumen

1545	Movement patterns of apex predators at a pristine coral atoll *Caselle, Jennifer, Yannis Papastamatiou, Alan Friedlander, Kevin Weng, Chris Lowe
1600 – 1630	Afternoon tea
1630	Inferring social behaviour and mating patterns in a reef shark from social network and molecular analyses *Mourier, Johann, Serge Planes
1645	Oceanic sharks visit a coral reef for cleaning *Oliver, Simon, Nigel Hussey, John Turner, Alison Beckett
1700	The importance of fish spawning aggregations to reef-associated sharks *Graham, Rachel, Kevin Rhodes, Rick Nemeth, George Burgess, Dan Castellanos

Theme 14: Larval ecology, recruitment & connectivity

1630 – 1730 14B Larval & settlement behaviour of coral reef organisms

Room	Hall C
Chair	Steve Simpson
1630	Larval settlement onto reefs in turbulent wave-driven flow *Koehl, Mimi, Matthew Reidenbach, Michael Hadfield
1645	Settlement responses in crab megalopae to differences in ambient underwater sound *Stanley, Jenni, Craig Radford, Andrew Jeffs
1700	Role of predator experience in influencing prey behaviour and survival *McCormick, Mark, Oona Lonnstedt, Mark Meekan, Douglas Chivers, Maud Ferrari
1715	Global environmental change impacts auditory behaviour and survival of larvae *Simpson, Steve

Monday 9 July Oral presentation program

Theme 15: Biodiversity & systematics

1500 – 1730	15A Biodiversity & systematics
Room	MR5
Chair	Alexander Kerr
1500	How many species on coral reefs? <i>*Fisher, Rebecca, Rebecca O'Leary, Samantha Low Choy, Kerrie Mengersen, Julian Caley</i>
1515	Examining patterns of cryptic invertebrate diversity across the Mariana Archipelago <i>*Reardon, Kerry, Molly Timmers, Catherine Harris, Gustav Paulay, Scott Godwin, Megan Moews, Russell Reardon, Max Sudnovsky, Russell Brainard</i>
1530	Biodiversity and trophic potential across a gradient of framework degradation <i>*Enochs, Ian, Derek Manzello</i>
1545	Benthic communities along a broad latitudinal gradient on Brazilian reefs <i>*Labbe-Bellas, Rachel, Guilherme Ortigara Longo, Anaide Wrublevski Aued, Carlos Eduardo Leite Ferreira, Paulo Antunes Horta Junior, Sergio Ricardo Floeter, Ana Liedke, Davi Volney Candido, Barbara Segal</i>
1600 – 1630	Afternoon tea
1630	Distributional patterns of coral reef polychaetes <i>*Hutchings, Pat, Maria Capa, Chris Glasby, Robin Wilson</i>
1645	Molecular systematics of the tropical sea cucumbers, Bohadschia (Holothuriidae: Holothuroidea) <i>*Kim, Sun, Alexander Kerr, Gustav Paulay</i>
1700	Urchins as modular mobile reefs in the Galapagos archipelago <i>*Altieri, Andrew, Jon Witman</i>
1715	Patterns in coral community structure at Isla Lobos reef, Southwestern Gulf of Mexico <i>*Escobar, Carolina, Ernesto A. Chavez</i>

Theme 17: The Coral Triangle Initiative

1500 – 1730	17A Science to support the Coral Triangle Initiative
Room	Sebel Bluewater
Chair	Helen Fox
1500	U.S. interagency science and technology partnerships in the Coral Triangle <i>*Shackeroff, Janna, Renario Acosta, Rusty Brainard, Britt Parker, Scot Frew, Anne Walton</i>
1515	A high-resolution regional model for the Coral Triangle <i>Castruccio, Frederic, *Joanie Kleypas, Enrique Curchitser</i>
1530	Marine resource management data gaps in the Coral Triangle <i>*Cros, Annick, Moi Khim Tan, Wen Wen, Nate Peterson, Kristana Erikson</i>
1545	Incorporating climate change into ecosystem approaches to fisheries management <i>Pomeroy Robert, Russell Brainard, Nygiel Armada, *Adel Heenan, Megan Moews, Janna Shackeroff</i>
1600 – 1630	Afternoon tea
1630	Community driven co-management at the scale of seascape <i>*Katz, Laure, Meity Mongdong, Mark Erdmann, Sangeeta Mangubhai</i>
1645	Monitoring coral reef governance in the Bird's Head Seascape, Indonesia <i>*Mascia, Michael, Fitry Pakiding, Louise Glew</i>
1700	Linkages between MPAs and social well-being: insights from Papua, Indonesia <i>*Pakiding, Fitryanti, Michael Mascia, Louise Glew, Helen Fox, Yori Toja</i>
1715	Revealed: reef fish and coral habitat patterns, Bird's Head, Indonesia <i>Lombana, Alfonso, *Helen Fox, Kelly Haisfield, Nur Hidayat, Christine Huffard, Muhammad Lazuardi, Defy Pada, Mujahir, Kartika Sumolang, Mark Allen, Purwanto</i>
1000 – 1300	17C Regional-scale design & local-scale actions for marine conservation
Room	Sebel Bluewater
Chair	Bob Pressey
1000	Scaling up and down for effective marine spatial planning <i>*Pressey, Bob, Morena Mills, Rebecca Weeks</i>

Monday 9 July Oral presentation program

17C cont.

1015	Reconciling scales of social and ecological connectivity in conservation planning <i>*Weeks, Rebecca, Glenn Almany, Richard Hamilton, Alison Green, Aileen Maypa, Alan White</i>
1030	Scaling-up Marine Protected Areas in the Philippines <i>*Horigue, Vera, Porfirio Aliño, Marie Antoinette Junio-Menez, Milidel Christine Quibilan, Alan White</i>
1035	Status of fisheries and aquaculture in the CT6 <i>*Geronimo, Rollan, Reniel Cabral, Porfirio Aliño, Lydia Napitupulu, Delvene Boso, Christine Casal, Nurulhuda Ahmad Fatan, Paul Lokani, Annabelle Trinidad</i>
1040	Seascape connectivity and reserve performance: effects across the western Pacific <i>*Olds, Andrew, Rod Connolly, Kylie Pitt, Paul Maxwell, Simon Albert</i>
1045 – 1115	Morning tea
1115	Science, scale, development and governance in Marine Protected Area planning: lessons from Timor Leste <i>*Edyvane, Karen, Lourenco Fontes, Augusto Fernandes, Narciso De Carvalho</i>
1130	Explicitly incorporating socioeconomic criteria and data into marine spatial planning <i>*Mangubhai, Sangeeta, Yohanes Maturbongs, Muhajir, Purwanto, Lukas Rumetna, Tri Soekirman, Salomina Tjoe, Karel Wamafma, Joanne Wilson</i>
1145	Moving between scales to successfully achieve marine conservation goals <i>*Mills, Morena, Robert Pressey, Madeleine Bottrill, Rebecca Weeks</i>
1200	Socioeconomic connectivities in the Coral Triangle <i>*Cabral, Reniel, Rollan Geronimo, Annabelle Cruz-Trinidad, Porfirio Aliño</i>
1215	Blue Carbon: reducing climate change impacts in the Coral Triangle <i>*Lawrence, Anissa, Richard Leck</i>
1230	Breaching regional-scale initiatives with local-scale actions: Marine Protected Area networking in the Philippines <i>*Eisma-Osorio, Rose-Liza</i>

1245	The Micronesia Challenge: a regional commitment built on local stewardship <i>*Leberer, Trina, Fran Castro, Yumiko Crisostomo, Evangeline Lujan, Sebastian Marino, Alissa Takesy, Surech Hideyos, William Kostka</i>
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Theme 18: Management & monitoring

1000 – 1800	18A Evaluating management success
Room	Hall B
Chair	Laurence McCook
1000	Effectiveness of adaptive, spatial management on the Great Barrier Reef <i>*McCook, Laurence</i>
1015	Monitoring by non-governmental organizations for marine conservation management in Indonesia <i>Mous, Peter, *Lida Pet-Soede, Anton Wijonarno</i>
1030	Sustainability and status of a women ornamental fishing cooperative <i>*Germain, Nathalie</i>
1035	Herbivore enhancement as a tool for reef restoration <i>*Kelly, Emily, Russell Sparks, Ivor Williams, Jennifer Smith</i>
1040	Advancing expert judgments of ecosystem condition <i>*Whiteman, Elizabeth, Tess Freidenburg</i>
1045 – 1115	Morning tea
1115	Validate indicators for performance management of the Reunion Island's MPA <i>*Pothin, Karine, Lionel Bigot, Claire Bissery, Pascale Chabanet, Gilbert David, Pierre-Gildas Fleury, Elodie Gamp, Emmanuel Tessier, Aurelie Thomassin, Dominique Pelletier</i>
1130	Management of the Great Barrier Reef: a success? <i>*Brodie, Jon</i>
1145	Assessing the effectiveness of water quality management of the Great Barrier Reef <i>*Martin, Katherine, Chris Chinn, Britta Schaffelke, Karen Kennedy, Len McKenzie, Michelle Waycott, Vittorio Brando, Angus Thompson, Michelle Devlin</i>

Monday 9 July Oral presentation program

18A cont.

1200	Assessing co-management in protected areas in the Northern Territory: lessons for Marine Protected Areas <i>*Izurieta, Arturo, Natasha Stacey, Stephen Garnett</i>
1215	Florida Keys National Marine Sanctuary presents its 'Condition Report' <i>*Donahue, Scott, Joanne Delaney, Brenda Altmeier, Billy Causey, Sarah Fangman, Brian Keller, Kathy Broughton, Steve Gittings, Vernon R. Leeworthy, Michelle Johnston</i>
1230	Effectiveness of small MPAs in Palau in meeting fisheries objectives <i>*Isechal, Adelle, Jacques Idechong, Noelle Oldiais, Arius Merep, Jay Andrew, Dawnette Olsudong, Geory Merep, Seiji Nakaya, Yimngang Golbuu</i>
1245	The effectiveness of locally managed marine areas in Fiji <i>Tawake, Alifereti, Semisi Meo, Apisai Bogiva, *Ron Vave, James Comley, Sunia Waqainabete, Bill Aalbersberg, Lavenia Tawake, Stacy Jupiter, Helen R. Sykes</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Effectiveness of sanctuary zones in the Ningaloo Marine Park <i>*Babcock, Russell, Mat Vanderklift, Rich Pillans, Toby Patterson, Mick Haywood</i>
1515	Evaluating reef health and management response in the Mesoamerican Reef <i>*McField, Melanie, Ian Drysdale, Marisol Rueda, Roberto Pott, Lorenzo Alvarez Filip</i>
1530	Addressing environment management and local livelihood in Fiji's coastal communities <i>*Fong, Patrick</i>
1545	Evaluating refuge volumes provided by habitat-structuring benthos and substrate <i>*McManus, John, Lisa McManus</i>
1600 – 1630	Afternoon tea
1630	Measuring and communicating effects of MPAs on deep 'shoal' fisheries <i>*Cappo, Mike, Marcus Stowar, Thomas Stieglitz, Eric Lawrey</i>

1645	Marine Conservation Agreements: combating resources decrease in Raja Ampat, Indonesia <i>*Purwanto, Purwanto, Muhajir Muhajir, Andrew Miners, Sangeeta Mangubhai, Jay Udelhoven, Joanne Wilson</i>
1700	Modeling the economic benefits of temporary octopus fisheries closures <i>*Harris, Alasdair, Kirsten Oleson, Thomas Oliver, Hajanaina Ratsimbazafy, Daniel Raberinary, Sophie Benbow</i>
1715	Tangible benefits of marine park management for human well-being <i>*Gooch, Margaret, Erin Bohensky, Kirstin Dobbs, Nadine Marshall, Petina Pert, Colette Thomas, Renae Tobin, Karen Vohland, Liz Wren, Hugh Yorkston, Natalie Stoekli</i>
1730	Managed access: moving towards collaborative fisheries sustainability in Belize <i>*Foley, James, Seleem Chan</i>

Theme 19: Human impacts on coral reefs

1000 – 1800	19B Coral reef resilience, conservation & management
Room	Sebel Kuranda
Chair	David Obura
1000	Managing reef fisheries for sustainable ecosystem function <i>*Mumby, Peter, Yves-Marie Bozec</i>
1015	Making it easier to use resilience scores in reef management <i>*Wilson, Joanne, Jeff Maynard, Stuart Campbell, Sangeeta Mangubhai, Naneng Setiasih, Jensi Sartin, Rod Salm, Rizya Ardiwijaya, Efin Muttaqin</i>
1030	Environmental and ecological drivers explain variation in bleaching across Indonesia <i>*Ardiwijaya, Rizya, Joanne Wilson, Jeffrey Maynard, Scott Heron, Stuart Campbell, Naneng Setiasih, Jensi Sartin, Efin Muttaqin</i>
1045 – 1115	Morning tea
1115	Mapping coral bleaching resistance: lessons from the Great Barrier Reef, Australia <i>*Wooldridge, Scott</i>

Monday 9 July Oral presentation program

19B cont.

1130	Mapping spatial resilience of Hawaiian coral reefs <i>*Norström, Albert V., John N. Kittinger, Magnus Nyström, Ivor D. Williams</i>
1145	Fishing-induced trophic cascades reduce coralline algae cover and subsequently reduce coral recruitment <i>*O'Leary, Jennifer, Donald Potts, Juan Carlos Braga, Tim McClanahan</i>
1200	Coral-reef ecosystems across Micronesia: patterns, processes, and human footprints <i>*Houk, Peter</i>
1215	Characterizing disturbances and recovery of Red Sea reefs from coral demographics <i>Bruckner, Andrew, Alastair Harris, Bernhard Riegl, Anthony Rouphael, *Brian Beck</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2
1500	Ignoring soft sediment may compromise coral reef ecosystem function <i>*Jayewardene, Danielle</i>
1515	Corals in highly variable environments are more resilient to ocean warming <i>*Barkley, Hannah, Anne Cohen, Yimnang Golbuu, Elizabeth McLeod, Rod Salm</i>
1530	Cayman Islands Marine Protected Areas, a 25 year legacy <i>*Austin, Timothy, Gina Ebanks-Petrie, Croy McCoy, John Turner, James Byrne, Katie Hillyer, Elayne Looker, Laura Richardson</i>
1545	Establishing a network of marine managed areas using resilience surveys <i>Abdulla, Ameer, Thomas Le Berre, Lisa Braun, Matthias Leisinger, Fabrizio Manco, Marie Saleem, *Patrik Svensson, Jerker Tamelander, Konstantin Tkachenko, Vera Uva</i>
1600 – 1630	Afternoon tea
1630	Patterns of hurricane-induced <i>Acropora</i> mortality in the Florida Keys <i>*Porter, James, Meredith Meyers, Rob Ruzicka, Mike Callahan, Michael Colella, Seve Rathbun</i>
1645	Coral reef condition on community based-MPA in Eastern Indonesia <i>*Kasim, Maruf, Yulia Widiarti</i>

1700	Globalization explains diversity and function of coral reef fish assemblages <i>*Brewer, Tom, Joshua Cinner, Rebecca Fisher, Alison Green, Shaun Wilson</i>
1715	Long term, <i>in situ</i> recovery of <i>Montastrea franksii</i> following bleaching <i>*Neal, Benjamin, Rivah Winter, Tali Treibitz, Oscar Beijbom, David Kriegman, David Kline, Mary Alice Coffroth, Greg Mitchell</i>
1730	Condition and management of coral reefs in Veracruz, Mexico <i>*Lopez, Padierna Mauricio, David Gilliam, Brian Walker, Marcos Angel Rangel Avalos, Israel Lopez Huerta, Richard Spieler, Jacobo Santander Monsalvo</i>
1745	Invasion and succession of corallimorph <i>Rhodactis howesii</i> at Palmyra Atoll <i>*Carter, Amanda, Jennifer Smith, Stuart Sandin, Gareth Williams</i>

Theme 21: Water quality: impacts & management

1000 – 1800	21A Watershed management & reef pollution
Room	MR3
Chair	Greg Piniak
1000	The impacts of extreme weather conditions on the inshore Great Barrier Reef <i>*Devlin, Michelle, Jorge Alvarez Romero, Amelia Wenger, Eduardo Teixeira da Silva, Jane Waterhouse, Jon Brodie</i>
1015	Managing coral reefs from ridge to reef <i>Ferguson, Rob, *Kathy Chaston, Tom Moore</i>
1030	Addressing land based sources of pollution in Guanica, Puerto Rico <i>*Sturm, Paul, Tom Moore, Roberto Viqueira, Rob Ferguson</i>
1045 – 1115	Morning tea
1115	Suspended sediment threatens larval development in a coral reef fish <i>*Wenger, Amelia, Michelle Devlin, Ian McLeod, Geoffrey Jones</i>
1130	Controls on residence time of terrestrial sediment on coral reefs <i>*Storlazzi, Curt, Michael Field, Amy Draut, Ronald Hoeke</i>
1145	Assessment on sediment organic matter transportation using stable isotopes analysis <i>*Susanto, Handoko Adi, Masaaki Yoneda, Makoto Komoda, Hiroko Koike</i>

Monday 9 July Oral presentation program

21A cont.

1200	Anthropogenic factors and nutrient variability along the Coral Coast, Fiji <i>*Tamata, Ulukalesi, John Morrison</i>	1700	Detecting reef water quality using stable carbon and nitrogen isotopes <i>*Rodrigues, Lisa</i>
1215	Factors affecting land-based sedimentation in coastal bays, US Virgin Islands <i>*Gray, Sarah C., Whitney T. Sears, Megan L. Kolupski, Amalia M. DeGroot, Nicholas W. Przyuski, Michael D. Fox</i>	1715	Water quality guidelines for maintaining a healthy Great Barrier Reef <i>*Honchin, Carol, Jon Brodie, Hugh Yorkston</i>
1230	Response of coral larvae to Deepwater Horizon oil and dispersants <i>Wetzel, Dana, *Gretchen Goodbody-Gringley, Kim Ritchie</i>	1730	Fast detection of nutrient limitation in macroalgae <i>*Den Haan, Joost, Amanda Ford, Mark Vermeij, Jef Huisman, Petra Visser</i>
1245	Management of coral reef resources in Guam's National Park <i>*Gawel, Mike</i>	1745	Fluorescence in an Inshore Reef Region <i>*Whinney, James, Peter Ridd</i>
1250	Managing the Great Barrier Reef from the paddock: enhancing agricultural extension <i>*Wegscheidl, Carla, Adam West</i>		
1300 – 1400	Lunch		
1400 – 1500	Plenary: Jamal Jompa: Reefs in the Coral Triangle, Plenary Hall 2		
1500	Spatial-temporal variation in exposure of marine ecosystems to land-based threats <i>*Alvarez-Romero, Jorge, Michelle Devlin, Eduardo Teixeira da Silva</i>		
1515	Phosphorus records in corals provide archives of terrestrial runoff <i>*Mallela, Jennie, Stephen Lewis, Steve Eggins, Barry Croke, Hermann Hermann, Robert Rapp</i>		
1530	Mary River flooding affects coral reefs of Hervey Bay, Australia <i>*Butler, Ian, Brigitte Sommer, Maria Zann, Jian-Xin Zhao, John Pandolfi</i>		
1545	Environmental gradients from coral cores on the Great Barrier Reef <i>*Lewis, Stephen, Jon Brodie, Malcolm McCulloch, Jenny Mallela, Stacey Jupiter, Hilary Stuart Williams, Janice Lough, Eric Matson</i>		
1600 – 1630	Afternoon tea		
1630	Waste disposal on small island nations – the Bermuda seafill <i>*Jones, Ross</i>		
1645	Improving sewage treatment in a National Park: Did it matter? <i>*Brown, Eric, Kazuki Kageyama, Kimberly Tice, Randall Watanuki</i>		

Monday 9 July Other activities

Opening Ceremony

ICRS 2012 will be officially opened at 8.30am in Plenary Hall 2.

- 'Welcome to Country', a traditional ceremony performed by Custodians of the Land to welcome visitors
- Terry Hughes, ICRS 2012 Convenor
- Gavin King MP, Assistant Minister for Tourism & Member for Cairns
- Her Excellency Ms Penelope Wensley AC, Governor of Queensland
- Robert Richmond, ISRS President

Poster Reception

The ICRS 2012 Poster Reception will take place from 1800-1930 in the hallways adjoining Plenary Hall 2 on the ground floor. Come along for some light refreshments and to meet the authors of the posters.

Exhibition opening hours

1000-1630

Tuesday 10 July Program

Mini-Symposia index for oral presentations

Mini-Symposium	Time	Room
1B Reef response to sea-level & environmental changes	0930-1800	Sebel Tully
5A Remote sensing of reef environments	0930-1800	Sebel Mossman
6A Cell & molecular biology of symbiosis	0930-1045	MR1
6B Mechanisms of calcification	1630-1800	MR1
6D Coral physiology under ocean acidification	1115-1600	MR1
9A Coral bleaching & climate change	0930-1745	Plenary Hall 2
9C Ecology of mesophotic coral reefs	1115-1300	MR5
11A Ecology & macroecology	1500-1800	Hall D
11C Seaweed-coral competition	0930-1300	Hall D
13A Fish	0930-1800	Hall A
14A Ecological importance of larval dispersal	1500-1800	Hall C
14B Larval & settlement behaviour of coral reef organisms	0930-1230	Hall C
16D Functional roles of microbes in reef ecosystems	1500-1800	MR3
15A Biodiversity & systematics	0930-1045	MR5
15B Seagrasses & seagrass ecosystems	1500-1800	MR5
15F Benthic foraminifera on coral reefs	1115-1300	MR3
17A Science to support the Coral Triangle Initiative	0930-1045	Sebel Bluewater
17B Marine Protected Areas & networks in the Coral Triangle	1115-1800	Sebel Bluewater
18A Evaluating management success	0930-1045	Hall B
18C Spatially-explicit & multi-disciplinary approaches for coral reef conservation	1115-1745	Hall B
19A Human impacts on coral reefs	0930-1800	Sebel Kuranda
21C Exploited lagoons	0930-1030	MR3

Tuesday 10 July Program

Scientific program at a glance

0830	Plenary Hall 2 Denis Allemand Plenary: Coral calcification												
	Plenary Hall 2	Hall A	Hall B	Hall C	Hall D	MR1		MR3	MR5	Sebel Tully	Sebel Kuranda	Sebel Mossman	Sebel Bluewater
0930	9A cont: Coral bleaching & climate change	13A: Fish	18A cont: Evaluating management success	14B: Larval & settlement behaviour of coral reef organisms	11C: Seaweed-coral competition	6A cont: Cell & molecular biology of symbiosis		21C: Exploited lagoons	15A cont: Biodiversity & systematics	1B: Reef response to sea-level and environmental changes	19A: Human impacts on coral reefs	5A cont: Remote sensing of reef environments	17A cont: Science to support the CTI
1045	Morning tea												
1115	9A	13A	18C: Spatially-explicit & multi-disciplinary approaches for coral reef conservation	14B	11C	6D: Coral physiology under ocean acidification		15F: Benthic foraminifera on coral reefs	9C: Ecology of mesophotic coral reefs	1B	19A	5A	17B: MPAs and networks in the CT
1300	Lunch (Cairns Convention Centre)												
1400	Plenary Hall 2 Geoffrey Jones Plenary: Larval fish dispersal												
1500	9A	13A	18C	14A: Ecological importance of larval dispersal	11A: Ecology & macroecology	6D:		16D: Functional roles of microbes in reef ecosystems	15B: Seagrasses & seagrass ecosystems	1B	19A	5A	17B
1600	Afternoon tea												
1630	9A	13A	18C	14A	11A	6B Mechanisms of calcification		16D	15B	1B	19A	5A	17B

Create your own daily program for Tuesday 10 July

Time	Presenter	Venue	Room Number
0830-0915	Denis Allemand Plenary	Cairns Convention Centre	Plenary Hall 2
0915-0930	Transition		
0930			
0945			
1000			
1015			
1030			
1045-1115	Morning Tea		
1115			
1130			
1145			
1200			
1215			
1230			
1245			
1300-1400	Lunch		
1400-1445	Geoffrey Jones Plenary	Cairns Convention Centre	Plenary Hall 2
1445-1500	Transition		
1500			
1515			
1530			
1545			
1600-1630	Afternoon Tea		
1630			
1645			
1700			
1715			
1730			
1745			

Tuesday 10 July Oral presentation program

* Indicates presenter

Theme 1: Reefs through time

0930 – 1755	1B Reef response to sea-level & environmental changes
Room	Sebel Tully
Chair	Jody Webster
0930	Unlocking reef growth and demise on the GBR since the Last Glacial Maximum *Webster, Jody M., Juan Carlos Braga, Humblet Marc, Potts Don, Yasufumi Iryu, Gustavo Hineostroza, Raphael Bourillot, Claire Seard, Gilbert Camoin, Yusuke Yokoyama
0945	Dating anomalies in shallow reef core transect, Heron Reef, GBR *Webb, Gregory, Luke Nothdurft, Jian-xin Zhao, Gilbert Price, Bradley Opdyke
1000	Coralline algae in Last Glacial Maximum and postglacial deposits in the Great Barrier Reef *Braga, Juan C., Yasufumi Iryu, Jody M. Webster, Yusuke Yokoyama, Stewart Fallon, Donald C. Potts, Marc Humblet, IODP Expedition 325 Scientists
1015	Low sea-level coral sequences from the Great Barrier Reef: IODP Expedition 325 *Potts, Donald, Marc Humblet, Jody Webster
1030	Sea-level rise and the Lizard Island fringing reef *Leon, Javier, Megan Saunders, Sarah Hamylton, Colin Woodroffe, Tom Baldock, Stuart Phinn
1035	Response of key coral species to Holocene sea-level change in the western Indian Ocean *Hongo, Chuki, Lucien F. Montaggioni
1040	Seismic stratigraphy of the shelf edge of the Great Barrier Reef *Hineostroza, Gustavo, Jody M. Webster, Robin J. Beaman, Louise Anderson, Samuel J. Barrett
1045 – 1115	Morning tea

Tuesday 10 July Oral presentation program

1B cont.

1115	Reef growth in inshore terrigenous sedimentary settings on the Great Barrier Reef <i>*Browne, Nicola, Scott Smithers, Chris Perry</i>
1130	U-series geochronology for the Last Glacial Maximum Great Barrier Reef <i>*Thompson, William G, Tezer M Esat, Alexander L Thomas, Yusuke Yokoyama, Jody M Webster, Expedition 325 Scientists</i>
1145	Coral reef response to sea level change, Western Australia <i>*Collins, Lindsay</i>
1200	Geographic variation in Holocene Pacific island reef accretion rates. <i>*Edinger, Evan, Lucien Montaggioni, Sophie Viseur, Joel Finnis</i>
1215	Last deglacial tropical Pacific sea surface temperatures from Tahiti corals <i>*Felis, Thomas, Ryuji Asami, Pierre Deschamps, Ed C. Hathorne, Martin Kölling, Nicolas Durand, Guy Cabioch, Edouard Bard</i>
1230	Changing coral assemblages since The Last Glacial Maximum: IODP Expedition 325 <i>*Humblet, Marc, Donald Potts, Jody Webster</i>
1245	Penultimate glacial tropical Pacific sea surface temperatures from Tahiti corals <i>*Asami, Ryuji, Thomas Felis, Pierre Deschamps, Alex Thomas, Edouard Bard, Nicolas Durand, Masafumi Murayama, Yasufumi Iryu</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Earthquake supercycle terminations in Sumatra over the last 5,500 years <i>*Gagan, Michael K., Sindia Sosdian, Danny H. Natawidjaja, Hai Cheng, Heather Scott-Gagan, Wahyoe S. Hantoro, Nerilie J. Abram, R. Lawrence Edwards, Bambang W. Suwargadi</i>
1515	Sea-level changes since the Last Glacial Maximum: IODP New Results from IODP Expedition 325 <i>*Yokoyama, Yusuke, Yusuke Miyairi, Jun'ichi Okuno, Stewart Fallon, Juan Carlos Braga, Donald Potts, Jody Webster, Tezer Esat, Alexander Thomas, William Thompson</i>

1530	Late Quaternary upper-slope deepening (fining) upward sequences, Great Barrier Reef <i>*Harper, Brandon B., André W Droxler, Eberhard Gischler, Jody M. Webster, Àngel P. Bernabéu, Expedition 325 Scientists</i>
1545	Dominican Republic drilling project: a 2-my record of Caribbean Reefs <i>*McNeill, Donald, James Klaus, Viviana Diaz, Peter Swart</i>
1600 – 1630	Afternoon tea
1630	Volcaniclastics in coral reefs: evidence for disturbance and recovery, Middle Miocene, Austria <i>*Piller, Werner E., Markus Reuter</i>
1645	Quaternary atoll development: a numerical approach <i>*Montaggioni, Lucien, Jean Borgomano, François Fournier</i>
1700	Sea-level rise versus Holocene reef accretion: who's winning the race <i>*Hubbard, Dennis, Lucien Montaggioni, Wolf-Christian Dullo, Gilbert Camoin, Eberhard Gischler</i>
1715	Environmental drivers of coral reef development in the tropical eastern Pacific <i>*Toth, Lauren, Richard Aronson, Ian Macintyre</i>
1730	Verification of paleodepth and island subsidence estimates, using imperfect U-Th data <i>*Thomas, Alexander, Expedition 325 Scientists</i>
1745	Diagenesis of the Great Barrier Reef during the last deglacial <i>*Bourillot, Raphael, Claire Seard, Gilbert Camoin, Jody Webster, Alex Thomas, Serge Galaup, Eberhard Gischler, Andre Droxler, Juan Carlos Braga, Michel Franceschi</i>
1750	Advanced classification of carbonate sediments based on physical properties <i>*Lado Insua, Tania, Louise Anderson, Jody M. Webster, Lutz Hamel, Kathryn Moran</i>

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Theme 5: Technologies for coral reef science

0930 – 1800	5A Remote sensing of reef environments
Room	Sebel Mossman
Chair	Chris Roelfsma
0930	Quantifying environmental forcing and exceedance thresholds on coral reefs <i>*Gove, Jamison M., Gareth J. Williams, Margaret A. McManus, Scott F. Heron, Oliver J. Vetter, David G. Foley, Stuart A. Sandin</i>
0945	A new bleaching product combining heat stress and light <i>*Mason, Robert, William Skirving, Sophie Dove, Tim Burgess, Istvan Laszlo, Susana Enriquez, John Hedley, Mark Eakin, Peter Mumby, Ove Hoegh-Guldberg, Roberto Iglesias-Prieto</i>
1000	Next generation satellite tools: understanding environmental stress on coral reefs <i>*Skirving, William, Sophie Dove, Ove Hoegh-Guldberg, Ray Berkelmans, Scott Bainbridge, David Wachenfeld, Roberto Iglesias-Prieto, Mark Eakin, Susana Enriquez, Robert Mason</i>
1015	Enhanced satellite-remote sensing for coral reef management: the next decade <i>Strong, Alan E., Ethan Lucas, *C. Mark Eakin, Jacqueline Rauenzahn, Paul Chang, Alexander Ignatov, Gang Liu, Eileen Maturi, Laury Miller, William Pichel, William Skirving, Menghua Wang</i>
1030	Autonomous systems for coral reef ocean acidification and ecosystem monitoring <i>*McGillivray, Philip, Francisco Chavez, Gernot Friederich, Brendan Tougher, Luc Lenain, Ben Reineman, Ken Melville, Luke Beatman, Alan Leonardi, Zdenka Willis</i>
1045 – 1115	Morning tea
1115	Coastal ocean radars applied to coral reef science and management <i>*Heron, Mal, Alessandra Mantovanelli, Diane Di Massa</i>
1130	Satellite remote sensing of characterization of Caribbean fish spawning aggregation sites <i>*Garcia-Moliner, Graciela, Roy Armstrong</i>

1145	Over a decade of hyperspectral reef remote sensing research in Puerto Rico <i>*Goodman, James, Miguel Velez-Reyes, Samuel Rosario-Torres</i>
1200	Coral reefs of Boat Island: a hyperspectral remote sensing perspective <i>*Velloth, Sumisha, Raghavendra Mupparthy, Shailesh Nayak</i>
1215	Capability of the Sentinel 2 mission for coral reef mapping <i>*Hedley, John, Chris Roelfsema, Benjamin Koetz, Stuart Phinn,</i>
1230	Hilo Bay revisited: airborne Lidar bathymetry and hyperspectral image fusion <i>*Wozencraft, Jennifer</i>
1245	Bidirectional reflectance of coral reef substrates corrected from above-water measurements <i>*Miller, Indrie, Bruce C. Forster, Robert W. Brander, Shawn W. Laffan</i>
1250	Spatial analysis of macroalgal cover dynamics in the reefscape <i>*Canto, Robert Franklin, Stuart Phinn, Peter Mumby, Guillermo Diaz-Pulido</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Ningaloo Reef: high resolution mapping achieved with hyperspectral, remotely-sensed data <i>*Kobryn, Halina, Kristin Wouters, Lynnath Beckley, Thomas Heege</i>
1515	Underwater hyperspectral imaging of marine structures in shallow coastal waters <i>*Fearn, Peter, Geir Johnsen, Merv Lynch, Lachlan McKinna, Mark Broomhall</i>
1530	Application of an integrated technique for comprehensive seafloor mapping <i>*Tian, Wen-Miin</i>
1545	Mapping reef dynamics at multiple scales: Geomorphic-reef, Capricorn-Bunker reefs <i>*Phinn, Stuart, Chris Roelfsema, Mitchell Lyons</i>
1600 – 1630	Afternoon tea

Tuesday 10 July Oral presentation program

5A cont.

1630	NOAA Coral Reef Watch's decision support system for coral reef management <i>Liu, Gang, *C. Mark Eakin, Jacqueline L. Rauenzahn, Tim Burgess, Tyler R. L. Christensen, Scott F. Heron, Jianke Li, William J. Skirving, Alan E. Strong, Ethan Y. Lucas</i>
1645	Microphytobenthos and their spatial and temporal dynamics in Heron Reef <i>*Borrego, Rodney, Chris Roelfsema, Alistair Grinham, Stuart Phinn</i>
1700	Enhanced underwater mosaicing technology for coral reef monitoring and mapping <i>Gleason, Arthur C.R., *Brooke Gintert, Nuno Gracias, Kasey Cantwell, Meghan Gonzalez, R. Pamela Reid</i>
1715	Utilizing GIS in coral reef conservation <i>*Williams, Amanda, Andy Bruckner, Samuel Purkis, Gwilym Rowlands</i>
1730	Development of boat-based fluorescence imaging Lidar for coral monitoring <i>*Sasano, Masahiko, Hiroshi Yamanouchi, Akira Matsumoto, Nobuo Kiriya, Kazuo Hitomi, Kenkichi Tamura</i>
1745	A novel remotely-sensed index for mapping submeter scleractinians over regional extents <i>*Collin, Antoine, Serge Planes</i>

Theme 6: Physiology & functional biology

0930 – 1045	6A Cell & molecular biology of symbiosis
Room	MR1
Chair	Simon Davy
0930	Role of GFP-like proteins during key stages of the symbiosis <i>*Smith, Edward, Cecilia D'Angelo, Dan Tchernov, Joerg Wiedenmann</i>
0945	Symbiont flexibility in <i>Galaxea fascicularis</i> across the South China Sea <i>*Zhou, Guowei, Hui Huang</i>
1000	Dimethylsulphide and precursors as antioxidants in the coral-zooxanthellae symbiosis <i>*Deschaseaux, Elisabeth, Graham Jones, Myrna Deseo, Kellie Shepherd, Hilton Swan, Bradley Eyre, Peter Harrison</i>

1015	Temperature induced differences in oxygen consumption and growth rates of six <i>Symbiodinium</i> types <i>*McGinty, Elizabeth, Robert McMahon, Laura Mydlarz</i>
1030	Lipid and fatty acid compositions of coral and dinoflagellate <i>*Okuyama, Hidetoshi, Shinichi Takaichi, Takahiro Wakahama, Ahmad Iskander Bin Haji MohdTaha, Kiyohito Yoshida, Kazuhiro Kogame, Masanobu Kawachi</i>
1630 – 1800	6B Mechanisms of calcification
Room	MR1
Chair	Sylvie Tambutté
1630	Light enhanced calcification in <i>Stylophora pistillata</i> <i>*Holcomb, Michael, Sylvie Tambutté, Denis Allemand</i>
1645	What skeleton composition tells us about coral biomineralization <i>*Gaetani, Glenn, Anne Cohen</i>
1700	pH regulation at the coral tissue-skeleton interface under ocean acidification <i>*Venn, Alexander, Eric Tambutté, Michael Holcomb, Julien Laurent, Denis Allemand, Sylvie Tambutté</i>
1715	Organic matrix characteristics of the calcified skeleton in <i>Corallium</i> species <i>*Debreuil, Julien, Sylvie Tambutté, Natacha Segonds, Nathalie Techer, Christian Marschal, Denis Allemand, Sadao Kosuge, Eric Tambutté</i>
1730	The geochemistry of coral biomineralization <i>*Gagnon, Alexander, Donald DePaolo, James DeYoreo, Jonathan Erez, Jess Adkins</i>
1745	The composition of coral calcification fluid: insights from skeletal chemistry <i>*Allison, Nicola, Itay Cohen, Adrian Finch, Jonathan Erez</i>
1115 – 1600	6D Coral physiology under ocean acidification
Room	Cairns Convention Centre MR1
Chair	Sophie Dove
1115	Impacts of ocean warming and acidification under realistic IPCC scenarios <i>*Dove, Sophie, Ove Hoegh-Guldberg</i>

Tuesday 10 July Oral presentation program

6D cont.

1130	Flow, oxygen, light and pH: interactive effects on coral growth and metabolism <i>*Osinga, Ronald, Miriam Schutter, Marlous Hooijberg, Zsuzsa Szabo, Tim Wijgerde, Johan Verreth</i>
1145	Coral nutrient uptake negatively impacted by elevated temperature and pCO ₂ <i>*Godinot, Claire, Fanny Houlbrequé, Renaud Grover, Christine Ferrier-Pagès</i>
1200	Global coral transcriptomic responses to ocean acidification <i>*Vidal-Dupiol, Jeremie, Didier Zoccola, Eric Tambutté, Christoph Grunau, Céline Cosseau, Michael Freitag, Mehdi Adjeroud, Nolwenn Dheilly, Denis Allemand, Guillaume Mitta, Sylvie Tambutté</i>
1215	Parental effects may influence acclimatization in corals to climate change <i>*Putnam, Hollie, Ruth Gates</i>
1230	Coral metabolic responses to ocean acidification are determined by light availability <i>Dong, Liang, Tracy Lawson, David Smith, *David Suggett</i>
1245	A controllable carbonate chemistry system for novel insights into ocean acidification <i>*Lawson, Tracy, Liang Dong, Amit Walinjar, John Woods, David Smith, David Suggett</i>
1250	CO ₂ and temperature effects to coral photophysiology and symbiont stability <i>*Hoadley, Kenneth, Daniel Pettay, Mark Warner, Andrea Grottoli, Todd Melman, Verena Schoepf, Yohei Matsui, Wei-Jun Cai, Xinping Hu, Justin Baumann</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Ocean acidification: RNA-Seq analyses after controlled long-term culture of <i>Stylophora pistillata</i> <i>*Zoccola, Didier, Eric Tambutté, Manuel Aranda, Anthony Bertucci, Denis Allemand, Timothy Ravasi, Sylvie Tambutté, Christian R Voolstra</i>

1515	Climate and ocean change impacts on coral transcriptome and physiology <i>*Kaniewska, Paulina, David Kline, Paul Campbell, Nela Rosic, Edmund Ling, Kenneth Chan, Dave Edwards, Sophie Dove, Ove Hoegh-Guldberg</i>
1530	Zinc: a bit of a boost to resist to warming! <i>*Houlbrequé, Fanny, Riccardo Rodolfo-Metalpa, Ross Jeffree, Francois Oberhansli, Jean-Louis Teysse, Florence Boisson, Khalid Al-Trabeen, Christine Ferrier-Pagès</i>
1545	Interactive effects of elevated pCO ₂ and temperature on coral calcification and energy reserves <i>*Schoepf, Verena, Andrea Grottoli, Mark Warner, Wei-Jun Cai, Todd Melman, Yohei Matsui, Justin Baumann, Tye Pettay, Kenny Hoadley, Yongchen Wang, Hui Xu, Qian Li, Xinping Hu</i>

Theme 9: Climate change & bleaching

0930 – 1745	9A Coral bleaching & climate change
Room	Plenary Hall 2
Chair	Ray Berkelmans
0930	Phosphate starvation renders corals susceptible to thermal bleaching <i>*Wiedenmann, Joerg, Cecilia D'Angelo, Edward Smith, Alan Hunt, Legiret Francois-Eric, Anthony Postle, Eric Achterberg</i>
0945	Cold causes acute but heat causes enduring stress in corals <i>*Roth, Melissa, Ralf Goericke, Dimitri Deheyn</i>
1000	Organic carbon fluxes in <i>Stylophora pistillata</i> during a thermal stress <i>*Tremblay, Pascale, Malik S. Naumann, Séverine Sikorski, Renaud Grover, Christine Ferrier-Pagès</i>
1015	Comparison of the photosynthetic bleaching response of four GBR corals <i>*Beltran, Victor, Walter Dunlap, Paul Long</i>
1030	Do clouds save the Great Barrier Reef? <i>*Leahy, Susannah, Michael Kingsford, Craig Steinberg</i>
1045 – 1115	Morning tea

Tuesday 10 July Oral presentation program

9A cont.

1115	Coral skeletal fractality modulates light-backscattering to symbionts and bleaching susceptibility <i>*Swain, Timothy, Luisa Marcelino, Andrew Gomes, Natalie Lake, Andrew Radosevich, Paige Humecki, Brian Kennedy, Kendra Pickard, Mark Westneat, Vadim Backman</i>
1130	Newly discovered coral endosymbiont <i>Chromera</i> is more thermotolerant than <i>Symbiodinium</i> <i>*Visser, Petra, Eleni Bintoudi, Eric Boschker, Pedro Frade, Judith Van Bleijswijk, Hans Matthijs, Rolf Bak</i>
1145	Changing oceans favor resistant <i>Symbiodinium</i> , but ecological shifts too slow? <i>*Oliver, Thomas, Kevin Arrigo, Stephen Palumbi</i>
1200	What two coral can bleaching events tell us about resilience <i>*Miller, Jeff, Andy Davis, Andrea Atkinson, Jimmy Herlan, Matt Patterson, Caroline Rogers, Judd Patterson, Brian Witcher, Rob Waara, Mike Feeley</i>
1215	Status of coral reef health in the northern Red Sea, Egypt <i>*Mohamed, Amin, Hany Abdel-Salam, Abdel-Hamid Mohamed</i>
1230	Bleaching in the Andaman Sea: potential mitigation mechanisms <i>*Wall, Marlene, Lalita Putchim, Gertraud M. Schmidt, Carin Jantzen, Pornpan Janjang, Siripat Boonnuan, Somkiat Khokiattiwong, Claudio Richter</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Bleaching of coral reefs in Agatti Island of Lakshadweep, India: a window view <i>*Ajith Kumar, Thipparamalai Thangappanpillai, Thangavel Balasubramanian</i>
1515	Upwelling mitigates coral bleaching in the Colombian Caribbean <i>*Bayraktarov, Elisa, Valeria Pizarro, Corvin Eidens, Tom Wilke, Christian Wild</i>
1530	Turning up the heat: increasing temperatures and recent bleaching at the Abrolhos Islands <i>Abdo, Dave, *Lynda Bellchambers, Scott Evans</i>

1545	Cold water bleaching of <i>Pocillopora</i> in the Gulf of California <i>*Paz-Garcia, David A., Eduardo F. Balart, Todd C. Lajeunesse, Francisco J. Garcia-de-Léon</i>
1600 – 1630	Afternoon tea
1630	Massive bleaching of coral reefs induced by ENSO, 2010, Pto Cabello, Venezuela <i>*Del Monaco, Carlos, Gerard Haiek, Samuel Narciso, Miguel Galindo</i>
1645	Bleaching in high-latitude, deeper water corals in Western Australia <i>*Thomson, Damian, Mat Vanderklift, Doug Bearham, Fiona Graham, Russ Babcock</i>
1700	Coral bleaching in Ratatotok Peninsula, Indonesia: 15 years monitoring data <i>*Lalamentik, Laurentius T. X., David Ch. Sompie, Frangky Runtukahu, Jerry W. Kojansow, Ari B. Rondonuwu</i>
1715	2010: mass bleaching of corals in Aceh, Indonesia <i>*Fadli, Nur, Edi Rudi, Muchlisin Z.A., Muhammad Aris</i>
1730	Colony color predicts stress tolerance in reef corals <i>*Paley, Allison, Line Bay, Madeleine van Oppen, Bette Willis</i>
1115 – 1300	9C Ecology of mesophotic coral reefs
Room	MR5
Chair	Marc Slattery
1115	Mesophotic coral reefs: a global model of structure and function <i>Slattery, Marc, *Michael Lesser</i>
1130	Temperature related lower depth limits for tropical corals in Hawaii <i>*Kahng, Samuel, Daniel Wagner, Mark Merrifield</i>
1145	Predicting the distribution and spatial extent of mesophotic coral reef habitat in the Great Barrier Reef <i>*Bridge, Thomas, Robin Beaman, Terry Done, Jody Webster</i>
1200	The role of deep reefs in shallow reef recovery <i>*Bongaerts, Pim, Madeleine van Oppen, Cynthia Riginos, Eugenia Sampayo, Tyrone Ridgway, Sophie Dove, Ove Hoegh-Guldberg</i>
1215	Genetic connectivity of <i>Symbiodinium</i> and its coral host <i>Agaricia lamarcki</i> <i>*Schizas, Nikolaos, Matt Lucas, Ernesto Weil</i>

Tuesday 10 July Oral presentation program

9C cont.

1230	Mesophotic coral reef ecosystems of the Mariana Archipelago *Rooney, John, Steve Lindfield, Vivienne Blyth-Skyrme
1245	Trophic structure of mesophotic fish assemblages in the Northwestern Hawaiian Islands *Kosaki, Randall, Corinne Kane, Richard Pyle

Theme 11: Ecological dynamics, resilience & phase shifts

1500 – 1755 11A Ecology & macroecology

Room	Hall D
Chair	Sean Connolly
1500	Local aggregation and regional biodiversity maintenance on coral reefs *Connolly, Sean, Terry Hughes, David Bellwood
1515	Living on borrowed time: transgressing unrecognized tipping points *Van De Leemput, Ingrid A., Terry Hughes, Cristina Linares, Vasilis Dakos, Egbert H. van Nes
1530	Heterospecific aggression and dominance among butterflyfishes *Blowes, Shane, Sean Connolly, Morgan Pratchett
1545	The macroecology of reef fish body-size distributions *Luiz, Osmar, Joshua Madin, Sergio Floeter, Andrew Allen, Ross Robertson, Michel Kulbicki

1600 – 1630 Afternoon tea

1630	How are reef fish packed? The influence of regional richness *Barneche, Diego, Sergio Floeter, Osmar Luiz, Carlos Eduardo Ferreira, Fabián Rodríguez-Zaragoza, Michel Kulbicki
1645	Diversity and stability of herbivorous fishes on coral reefs *Thibaut, Loic, Sean Connolly, Hugh Sweatman
1700	Optical indices for coral pigments and reef community light-use efficiency *Hochberg, Eric
1715	Connectivity, species size and the functioning of reef fish assemblages *Kulbicki, Michel, Ernesto Arias-Gonzales, David Bellwood, Pascale Chabanet, Sergio Floeter, Alan Friedlander, Tim McClanahan, Jana McPherson, David Mouillot, Valeriano Parravicini, Derek Tittensor, Laurent Vigliola, Boris Worm

1730	Effect of reef structural complexity on parrotfish grazing spatial distribution *Ferrari Legorreta, Renata, Manuel Gonzalez-Rivero, Peter J. Mumby
1735	Gastropod predation on staghorn coral <i>Acropora tumida</i> in Hong Kong *Tsang, Ho Leung, Put O. Ang
1740	Macroecological relationships between reef-coral species' traits and geographic range size *Diaz, Marcela, Joshua S. Madin, Andrew H. Baird
1745	Species distribution models for macroecological studies of Hawaiian corals *Franklin, Erik
1750	Diversity components, climate change and predators role after 15 years of no-fishing *Saldivar-Lucio, Romeo, Héctor Reyes-Bonilla, Fabián Rodríguez-Zaragoza, Gustavo De la Cruz-Agüero
0930 – 1300	11C Seaweed-coral competition
Room	Hall D
Chair	Douglas Rasher
0930	Chemical warfare on reefs: macroalgae damage corals using surface-associated allelochemicals *Rasher, Douglas, E. Paige Stout, Sebastian Engel, Julia Kubanek, Mark Hay
0945	Seaweed-coral interactions: direct versus indirect effects and can corals respond? *Hay, Mark, E. Hunter Hay, Tiffany Stephens
1000	Not all macroalgal dominated coral reefs are the same *Birrell, Chico, Peter Mumby
1015	Coral recruitment on reefs with intact fish communities *Brumbaugh, Daniel, Katherine Holmes, Helen O'Brien
1030	Patterns of algae related coral mortality around Maui, Hawaii *Ross, Megan, Paul Jokiel, Darla White
1035	Experimental evaluation of the combined effects of macroalgae density and predation on coral growth *Claudet, Joachim, Fabio Bulleri, Marine Couraudon-Réale, Serge Planes

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11C cont.

1040	Climatic thresholds to the persistence of seaweeds on coral reefs *Fulton, Christopher, Martial Depczynski, Shaun Wilson, Thomas Wernberg, Ben Radford, Thomas Holmes
1045 – 1115	Morning tea
1115	How much herbivory is sufficient to control macroalgae? *Holbrook, Sally, Russell Schmitt, Thomas Adam, Andrew Brooks
1130	Allelochemicals produced by Caribbean macroalgae can alter coral-microbial assemblages <i>in situ</i> *Morrow, Kathleen, Mark Liles, Raphael Ritson-Williams, Valerie Paul
1145	Contact with seaweeds enhances corallivory on scleractinian corals *Wolf, Alexander, Maggy Nugues
1200	Frequency and dynamics of coral-macroalga interactions on Fijian reefs *Bonaldo, Roberta, Mark Hay
1215	Coral physiological stress and recovery from invasive algal overgrowth *Martinez, Jonathan, Robert Richmond
1230	Microbialization of coral reefs *Rohwer, Forest
1245	Variation in elemental stoichiometry over four kingdoms of coral reef benthic organisms *Lovelock, Catherine, Ruth Reef, John Pandolfi
1250	Contrasting competitiveness of Caribbean coral juveniles against a brown alga *Nugues, Maggy, Johannes Schicker
1255	Impact of macroalgal interactions on coral health across the USVI *Kammann, Matthew, Tyler Smith, Jacquelyn Calnan

Theme 13: Fish & fisheries

0930 – 1755	13A Fish
Room	Hall A
Chair	Glenn Almany
0930	Thermal sensitivity and effects of global warming on coral-reef fishes *Johansen, Jacob L., John F. Steffensen, Geoffrey P. Jones
0945	Local adaptation to climate change: fish physiology across latitudes *Rummer, Jodie, Naomi Gardiner, Christine Couturier, Jonathan Stecyk, Göran Nilsson, Philip Munday
1000	Prevention and repair of ultraviolet induced DNA damage in fish Eckes, Maxi, Ulrike Siebeck, Simon Dunn, *Christopher Braun, Sophie Dove
1015	Comparing fish assemblages in oceanic islands of the eastern Pacific *Fourriere, Manon, Hector Reyes-Bonilla, Fabián Alejandro Rodríguez-Zaragoza
1030	Damselfish distribution in southwestern Atlantic reefs: local and latitudinal effects *Chaves, Lais, Carlos Eduardo Ferreira, Beatrice Ferreira
1045 – 1115	Morning tea
1115	Functional connectivity of coral reef fish in the Red Sea *McMahon, Kelton, Michael Berumen, Simon Thorrold
1130	Molecular techniques show coastal ecosystems sustain fisheries on offshore reefs *Box, Stephen, Steven Canty
1145	Interconnectivity of reef systems of migratory fishes in the Philippines *Honda, Kentaro, Yohei Nakamura, Wilfredo Uy, Darwin Baslot, Allyn Pantallano, Masahiro Nakaoka, Miguel Fortes
1200	Small scale movements and habitat preferences of <i>Lujanus fulviflamma</i> *Cadiou, Gwenaél, Olivier Chateau, Matthew Taylor, David Booth, Laurent Wantiez
1215	Temporal habitat utilization patterns by reef fishes in GTMO, Cuba *Noyes, Tim, Eric Hochberg

Tuesday 10 July Oral presentation program

13A cont.

1230	Community assembly patterns in Atlantic reef fishes <i>*Bender, Mariana, Marcio Pie, Sergio Floeter</i>
1245	Demographic plasticity in hindtail grouper in American Samoa <i>*Ochavillo, Domingo, Marlowe Sabater, Elizabeth Trip</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	A comparison of field methods for assessing boldness in fishes <i>*White, James, Mark Meekan, Maud Ferrari, Mark McCormick</i>
1515	Learning temporal patterns of risk in a predator diverse environment <i>*Bosiger, Yoland, Oona Lönnstedt, Mark McCormick, Maud Ferrari</i>
1530	Generalisation of learned predator recognition in coral reef ecosystems <i>*Mitchell, Matthew, Mark McCormick, Maud Ferrari, Douglas Chivers</i>
1545	Do butterflyfish maintain their partner for a life time? <i>*Koeda, Keita, Takanobu Fukagawa, Katsunori Tachihara</i>
1600 – 1630	Afternoon tea
1630	Multi-scale demographic trends in an introduced Hawaiian reef fish <i>*Donovan, Mary, Ivor Williams, Jan Dierking, Alan Friedlander</i>
1645	Sampling reef fish communities in the remote waters of Micronesia <i>*Lindfield, Steve, Brett Taylor, Jennifer McIlwain, Euan Harvey</i>
1700	Two decades of fish monitoring in a protected reef area <i>*Bouchon-Navaro, Yolande, Max Louis, Claude Bouchon</i>
1715	Life history characteristics of Picasso triggerfish, <i>Rhinecanthus aculeatus</i> <i>*Kuenzli, Fabienne, Katsunori Tachihara</i>
1730	Food-web in <i>Stegastes planifrons</i> and <i>Stegastes adustus</i> territories (Pomacentridae) <i>*Dromard, Charlotte R., Yolande Bouchon-Navaro, Mireille L. Harmelin-Vivien, Claude Bouchon</i>
1745	Patterns of reef fish density and biomass in the Brazilian Province <i>*Ferreira, Carlos Eduardo, Sergio Ricardo Floeter, Daniel Dinslaken, Juan Quimbayo, Renato Morais</i>

Theme 14: Larval ecology, recruitment & connectivity

1500 – 1800	14A The ecological importance of larval dispersal
Room	Hall C
Chair	Robert Warner
1500	Probability of successful larval dispersal declines fivefold over one kilometer <i>*Buston, Peter, Geoffrey Jones, Serge Planes, Simon Thorrold</i>
1515	Larval dispersal patterns within an MPA network in Kimbe Bay <i>*Berumen, Michael, Glenn Almany, Serge Planes, Geoffrey Jones, Pablo Saenz-Agudelo, Simon Thorrold</i>
1530	The scale of dispersal in brooding and spawning corals <i>*Hughes, Terry, Andrew Baird, Morgan Pratchett</i>
1545	Local retention, self-recruitment, dispersal and variable connectivity among reefs <i>*Hogan, Derek, Paul Chittaro, Roger Thiessen, Daniel Heath, Peter Sale</i>
1600 – 1630	Afternoon tea
1630	Larger female fish contribute more to self-replenishment <i>*Beldade, Ricardo, Russell Schmit, Sally Holbrook, Serge Planes, Giacomo Bernardi</i>
1645	Growth histories and life in the plankton of neon damselfish <i>*Kingsford, Michael, Emily Gerard, Gabi Gerlach, Jelle Atema, Claire Paris</i>
1700	Reef fish connectivity at the Brazilian coast: management and conservation <i>*Noguchi, Ramon, Carlos Eduardo Ferreira, Laura Isabel Weber, Sergio Ricardo Floeter</i>
1715	Studying physical connectivity of reefs using a numerical ocean model <i>*Thomas, Christopher, Gautier Krings, Jonathan Lambrechts, Eric Deleersnijder, Emmanuel Hanert, Eric Wolanski</i>
1730	Latitudinal variation in early life history traits of coral reef fishes <i>*McLeod, Ian, Geoffrey Jones, Mark McCormick, Philip Munday, Miwa Takahashi</i>

Tuesday 10 July Oral presentation program

14A cont.

1745	How marine reserves redefined recruitment dynamics in an island archipelago <i>*Harrison, Hugo, David Williamson, Glenn Almany, Garry Russ, Geoffrey Jones</i>
0930 – 1230	14B Larval & settlement behaviour of coral reef organisms
Room	Hall C
Chair	Steve Simpson
0930	Chemical signaling of coral larval settlement and metamorphosis <i>*Harder, Tilmann, Jan Tebben, Dianne Tapiolas, Cherie Motti, Nachshon Siboni, David Abrego, Peter Steinberg</i>
0945	Settlement site selection: a result of imprinting or innate preferences <i>*Dixson, Danielle, Geoffrey Jones, Philip Munday, Serge Planes, Morgan Pratchett, Simon Thorrold</i>
1000	Positive and negative effects of benthic algae on coral recruitment <i>*Ritson-Williams, Raphael, Valerie Paul, Suzanne Arnold, Cliff Ross, Robert Steneck</i>
1015	Sensory mechanisms and swimming behavior employed by coral planulae during substratum detection <i>*Tran, Cawa, Michael Hadfield</i>
1030	Environmental and genetic drivers of navigational behavior in coral larvae <i>*Marhaver, Kristen, Mark Vermeij, Aaron Hartmann, Stuart Sandin</i>
1045 – 1115	Morning tea
1115	Juvenile reef fish assemblages of Ningaloo Reef, Western Australia <i>*Depczynski, Martial, Shaun Wilson, Tom Holmes, Ben Radford, Andrew Heyward, Mark Case, Paul Tinkler</i>
1130	Larval biology of the fluted giant clam, <i>Tridacna squamosa</i> <i>*Neo, Mei Lin, Serena Lay-Ming Teo, Loke Ming Chou, Peter Alan Todd</i>
1145	Substrate complexity and albedo preference of reef zooplankton <i>*Yoshida, Teruaki, Hai Siang Tan, Ming Kun Tan, Tatsuki Toda, Bin Haji Ross Othman</i>

1200	Orientation from open water to seagrass nursery habitats by larval reef fish <i>*Nagelkerken, Ivan, Mathius Igulu, Maarten van der Beek, Martijntje Schippers, Roel van Eck, Yunus Mgaya</i>
1215	Conspicuousness influences settlement behaviour in reef fish larvae <i>*Siebeck, Ulrike</i>

Theme 15: Biodiversity & systematics

0930 – 1045	15A Biodiversity & systematics
Room	MR5
Chair	Alexander Kerr
0930	Determining trophic relationships using DNA barcoding of gut contents <i>*Leray, Matthieu, Suzanne Mills, Christopher Meyer</i>
0945	Genetic connectivity of <i>Lutjanus russelli</i> (Lutjanidae) in the Andaman Sea and Gulf of Thailand. <i>*Klangnarak, Wanlada, James True</i>
1000	Taxonomic inventory of Scleractinia in French overseas territories <i>*Joannot, Pascale, Elénore Vandel, Michel Pichon</i>
1015	The scleractinian fauna of Yemen: diversity and peculiar distribution patterns <i>*Chaineau, Claude-Henri, Francesca Benzoni, Michel Pichon, Eric Dutrieux, Malek Abdulaziz, Ibrahim Al-Thary</i>
1030	Diel variations in benthic zooplanktons over coral-reef kutch, India <i>*Sanagoudra, Shivanagouda, U.G. Bhat</i>
1500 – 1800	15B Seagrasses & seagrass ecosystems
Room	MR5
Chair	Robert Coles
1500	Evaluating risk to seagrasses in the tropical Indo-Pacific region <i>*Coles, Robert, Len McKenzie, Mike Rasheed, Alana Grech</i>
1515	Gaps in the meadow: does gap shape affect recovery rate of seagrass? <i>*Yaakub, Siti Maryam, Benjamin C.F. Lee, Tjeerd Bouma, Peter A. Todd</i>

Tuesday 10 July Oral presentation program

15B cont.

1530	Broad-scale comparisons of species diversity patterns of seagrass community in Okinawa and the Philippines <i>*Nakaoka, Masahiro, Kentaro Honda, Yohei Nakamura, Mikio Mikio Watai, Yoshiyuki Yoshiyuki Tanaka, Gay Amabelle Go, Klenthon Bolisay, Venus Leopargas, Wilfredo Uy, Miguel Fortes</i>
1545	Seagrasses reduce the impacts of ocean acidification on coral reefs <i>*Unsworth, Richard, Catherine Collier, Gideon Henderson, Len McKenzie,</i>
1600 – 1630	Afternoon tea
1630	Diversity, resilience and adaptability of seagrasses in the GBR <i>*Waycott, Michelle, Kor Jent Van Dijk, Catherine Collier, Kathryn McMahon</i>
1645	An eastern Pacific seagrass meadow in Golfo Dulce, Costa Rica <i>*Samper-Villarreal, Jimena, Amandine Bourg, Jeffrey A. Sibaja-Cordero, Jorge Cortés</i>
1700	Responses of seagrass to mariculture-induced physico-chemical gradients in Bolinao, Philippines <i>*Fortes, Miguel, Gay Amabelle Go, Klenthon Bolisay, Janice Leriorato, Rose Lopez, Francisco Paciencia, Jr., Masahiro Nakaoka, Kentaro Honda, Mikio Watai, Venus Leopargas</i>
1715	Regional scale influence of the Suwannee River (Florida, USA) on seagrasses <i>*Carlson, Paul, Laura Yarbro</i>
1730	Range scale genetic connectivity of the tropical seagrass <i>Thalassia testudinum</i> <i>*Van Dijk, Jent Kornelis, Michelle Waycott, Eric Bricker, Brigitta I. van Tussenbroek</i>
1745	Growth requirements of dynamic seagrass habitats: working towards thresholds <i>*Collier, Catherine, Michelle Waycott, Len McKenzie, Michael Rasheed</i>

1115 – 1300	15F Benthic foraminifera on coral reefs
Room	MR3
Chair	Pamela Hallock
1115	The FORAM Index revisited: usefulness, challenges and limitations <i>*Hallock, Pamela</i>
1130	Provinciality and spatial variability in large benthic foraminifera assemblages <i>*Renema, Willem</i>
1145	Environmental risk assessment based on foraminifera of Recife de Fora <i>*Barbosa, Catia, Jose Carlos Seoane, Renata Mikosz, Silvia Araujo, Clovis Castro</i>
1200	Effects of temperature and nutrient stress on symbiont-bearing benthic foraminifera from the Great Barrier Reef <i>*Schmidt, Christiane, Michal Kucera, Petra Heinz, Sven Uthicke</i>
1215	Aquaculture techniques to promote sand production by large benthic foraminifers <i>*Hosono, Takashi, Kazuhiko Fujita, Paeniu Lopati, Yoichi Ide, Hajime Kayanne</i>
1230	Impact of metal exposure in the symbiont-bearing foraminifer <i>Amphistegina lessonii</i> <i>*Prazeres, Martina, Samantha Martins, Adalto Bianchini</i>
1245	Discrimination of benthic foraminiferal assemblages and biotopes from the Capricorn Group, Great Barrier Reef, Australia <i>*Mamo, Briony, Luke Strotz, Glenn Brock, James Valentine, Dale Dominey-Howes</i>

Theme 16: Microbes & viruses

1500 – 1800	16D Functional roles of microbes in reef ecosystems
Room	MR3
Chair	Max Teplitski
1500	Resilience of the coral holobiont: dynamic interactions between coral commensal bacteria and opportunistic pathogens <i>*Krediet, Cory, Ali Alagely, Kim Ritchie, Max Teplitski</i>

Tuesday 10 July Oral presentation program

16D cont.

1515	Microbial buffering: protecting the Great Barrier Reef against anthropogenic impacts <i>*Angly, Florent, Candice Heath, Virginia Rich, Britta Schaffelke, David Bourne, Gene Tyson</i>
1530	<i>In situ</i> coral-bacteria interactions reveal potential mechanism of resilience <i>*Garren, Melissa, Orr H. Shapiro, Assaf Vardi, Justin Seymour, Roman Stocker, Farooq Azam</i>
1545	Identification of antimicrobial compounds produced by coral associated bacteria <i>*Raina, Jean-Baptiste, Dianne Tapiolas, Cherie Motti, Bette Willis, David Bourne</i>
1600 – 1630	Afternoon tea
1630	Disruption of AHL signalling within corals during thermal stress <i>*Ransome, Emma, Colin Munn, Karen Tait</i>
1645	Effect of gene transfer agents on bacteria and coral larvae <i>*Yum, Lauren, Till Bayer, Lauren McDaniel, Elizabeth Young, Manuel Aranda, Kim Ritchie, John Paul, Christian Voolstra</i>
1700	Microbial contribution to competition between corals and benthic algae <i>*Barott, Katie, Beltran Rodriguez Brito, Kristen Marhaver, Mark Vermeij, Allison Gregg, Jennifer Smith, Forest Rohwer</i>
1715	Coral mucus-associated Pseudoalteromonas with antibacterial activity <i>Shnit-Orland, Maya, Alex Sivan, *Ariel Kushmaro</i>
1730	Interactions between nutrient addition, herbivory, and the coral microbiome <i>*Zaneveld, Jesse, Adrienne Correa, Kristin Carver, Rory Welsh, Andrew Shantz, Stephanie Rosales, Deron Burkepile, Rebecca Vega Thurber</i>
1745	Chemotaxis by coral reef bacteria <i>*Tout, Jessica, Peter Ralph, Katherina Petrou, Roman Stocker, Gene Tyson, Justin Seymour</i>
1750	Red Sea <i>Acropora squarrosa</i> bacterial population dynamics under adverse anthropogenic conditions <i>*Villa, Felipe, Christian Jessen, Cornelia Rodger, Manuel Arana, Till Bayer, Christian Wild, Christian R. Voolstra</i>

1755	Metagenomic analysis of the microbial community associated with <i>Lophelia pertusa</i> <i>*Galkiewicz, Julia, Rebecca Vega Thurber, Christina Kellogg</i>
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Theme 17: The Coral Triangle Initiative

0930 – 1045	17A Science to support the Coral Triangle Initiative
Room	Sebel Bluewater
Chair	Helen Fox
0930	Solving the mystery of Marine Protected Area performance: methodologies for linking governance to ecological and social outcomes <i>*Fox, Helen, Michael Mascia, Louise Glew, Christine Huffard, Alfonso Lombana, Sangeeta Manghubai, Fitry Pakiding, Lida Pet-Soede</i>
0945	Informed opportunism for conservation planning in the Solomon Islands <i>Game, Edward, Geoff Lipsett-Moore, Richard Hamilton, Nate Peterson, *Jimmy Kereseke, William Atu, Matthew Watts, Hugh Possingham</i>
1000	Moving toward regional ocean governance: the Coral Triangle Initiative <i>*Olsson, Per, Natalie Ban, Louisa Evans, Derek Armitage, Terry Hughes, Marion Glaser, Simon Foale, Robert Pomeroy, Örjan Bodin, Franciska Rosen</i>
1015	Integrating socio ecological resilience into Bali's coral reef management <i>*Sartin, Jensi, Naneng Setiasih, Joanne Wilson, Rizya Ardiwijaya, Colette Thomas, Emma Calgaro, Heidi Schuttenberg</i>
1030	Reefs at risk in the Coral Triangle <i>*Reytar, Katie, Lauretta Burke, Mark Spalding, Allison Perry</i>
1115 – 1800	17B Marine Protected Areas & networks in the Coral Triangle
Room	Sebel Bluewater
Chair	Alan White
1115	Marine Protected Areas in the Coral Triangle: issues and options <i>*White, Alan, Annick Cros, Moi Khim Tan, Nate Peterson, Alison Green</i>
1130	Networks of marine reserves as fisheries management and conservation tools on Philippine coral reefs <i>*Russ, Garry, Rene Abesamis, Angel Alcala, Lawrence Bernado, Claro Jadloc, Brian Stockwell, Cesar Villanoy, Rebecca Weeks</i>

Tuesday 10 July Oral presentation program

17B cont.

1145	Marine Protected Areas: understanding social impacts through time in North Sulawesi, Indonesia <i>*Gurney, Georgina, Robert Pressey, Natalie Ban, Richard Pollnac, Joshua Cinner</i>
1200	Redefining MPA planning processes in the CTI <i>*Christie, Patrick</i>
1215	Corals, canyons and corridors: integrating deep-sea habitats into Indonesia's MPAs <i>*Kahn, Benjamin</i>
1230	Top-down bottom-up approach to MPA capacity building in Indonesia <i>*Walton, Anne, Laure Katz, Asril Djunaidi</i>
1245	Predicting management costs of protected areas in the Coral Triangle <i>*Craigie, Ian, Robert Pressey</i>
1250	New paradigm on establishing MPA in Indonesia, a case study from Nusa Penida MPA <i>*Welly, Marthen</i>
1255	Food security amidst climate change through MPAs <i>*Morales, Ray</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Designing community-based Marine Protected Areas to achieve multiple objectives <i>*Green, Alison, Mary Gleason, Alan White, Aileen Maypa, Bob Pressey, Rebecca Weeks, Glenn Almany, Rene Abesamis, Leanne Fernandes</i>
1515	Long-term investments by an NGO for Marine Protected Area management support: is it worth it? <i>*Wijonarno, Anton, Lida Pet Soede, Wahyu Rudianto, Wawan Ridwan, Veda Santiadji, Sugiyanta, Abdul Halim, Peter Mous</i>
1530	A new paradigm for Marine Protected Area management in Indonesia <i>Ruchimat, Toni, Agus Dermawan, Handoko Adi Susanto, *Suraji</i>
1545	Periodic closures: securing fisheries for the future? <i>*Cohen, Philippa, Simon Foale</i>

1600 – 1630	Afternoon tea
1630	RESTORED strategies utilized for MPA support network processes <i>*Aliño, Porfirio, Abbie Trinidad Cruz, Rollan Geronimo, Reniel Cabral</i>
1645	Developing resilient Marine Protected Area networks across seascapes in Fiji <i>*Cakacaka, Akuila, Rebecca Weeks, Yashika Nand, Waisea Naisilisili, Margaret Fox, Sirilo Dulunaqio, Akanisi Caginitoba, Stacy Jupiter</i>
1700	Contrasting effects of marine reserves and habitat change on reef fishes in the Coral Triangle <i>*Srinivasan, Maya, Mark McCormick, Philip Munday, Stephen Neale, Janelle Eagle, Mary Bonin, Geoffrey Jones</i>
1715	Biophysical principles for designing resilient MPA networks with multiple objectives <i>*Fernandes, Leanne, Alison Green, John Tanzer, Alan White, Porfirio Aliño, Jamaluddin Jompa, Paul Lokani, Arisetiarso Soemodinoto, Maurice Knight, Bob Pomeroy, Hugh Possingham, Bob Pressey</i>
1730	Matching governance to context: institutional strategies for networking CTI MPAs <i>*Schuttenberg, Heidi, Iain Gordon, Anna Meneses, Rahim Gor Yaman, Affendi Yang Amri, Jamal Jompa, Porfirio Aliño, Tan Chun Hong, Helene Marsh</i>
1745	Fishery and ecotourism along a marine park: compatible or conflicting? <i>*Soliman, Victor, Raul Burce</i>
1750	The importance and challenges of an MPA network in Bali <i>*Mustika, Putu Liza, Made Jaya Ratha, Tiene Gunawan, Ketut Sarjana Putra</i>
1755	Challenges in developing large Marine Protected Area: Danajon Bank, Philippines <i>*Amolo, Rizaller, Rose-Liza Osorio</i>

Tuesday 10 July Oral presentation program

Theme 18: Management & monitoring

0930 – 1040	18A Evaluating management success
Room	Hall B
Chair	Laurence McCook
0930	Effectiveness of different levels of management on three Belizean MPAs <i>*Hagan, Annelise</i>
0945	Evolving MPA monitoring to meet policy and management needs <i>*Freidenburg, Tess, Madhavi Colton, Elizabeth Whiteman</i>
1000	Invasive alga removal accelerates sediment flushing in Maunalua Bay, Hawaii <i>*Macduff, Sean, Eric Wolanski, Robert Richmond</i>
1015	Reef community structure in Marine Protected Area in Southern Philippines <i>*Garcia, Jerry, Asuncion de Guzman</i>
1030	Long term monitoring, student research and MPA management, Caribbean <i>Morrall, Clare, *Robert Anderson, Robert Balzer, Craig Berg</i>
1035	What's in a name? Labels and management success <i>*White, Susan, Amanda Mayer</i>
1115 – 1800	18C Spatially-explicit & multi-disciplinary approaches for coral reef conservation
Room	Hall B
Chair	Serge Andréfouët
1115	Conservation and management using habitat maps: lessons from 10 studies <i>*Andréfouët, Serge</i>
1130	Coral reef connectivity in the Indian Ocean <i>*Kool, Johnathan, Nick Graham</i>
1145	Modelling coral reef fish larvae dispersal for management <i>*Crochelet, Estelle, Pascale Chabanet, Karine Pothin, Erwann Lagabrielle, Jason Roberts, Gwenaëlle Pennober, Antoine Riou, Michel Petit</i>

1200	Assessing connectivity of fish functional groups in a social-ecological seascape using a landscape ecology approach <i>*Berkström, Charlotte, Regina Lindborg, Matilda Thyresson, Martin Gullström</i>
1215	Does dispersal connectivity matter for conservation? <i>*Beger, Maria, Eric Trembl, Matt Watts, Hugh Possingham</i>
1230	Management implications of intra-habitat spatial variability in coral reefs <i>*Huntington, Brittany, Diego Lirman</i>
1245	Defining regions by benthic habitat morphology along a latitudinal gradient <i>*Wood-Derrier, Wendy, Brian Walker</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Incorporating connectivity and climate change into marine conservation planning <i>*Magris, Rafael, Robert Pressey, Rebecca Weeks</i>
1515	Forest conservation delivers highly variable coral reef conservation outcomes <i>*Klein, Carissa, Stacy Jupiter, Elizabeth Selig, Matthew Watts, Ben Halpern, Muhammad Kamal, Chris Roelfsema, Hugh Possingham</i>
1530	Integrating land-sea connectivity into systematic conservation planning <i>*Makino, Azusa, Maria Beger, Carissa Klein, Stacy Jupiter, Hugh Possingham</i>
1545	Satellite imaging coral reef resilience for regional scale management <i>*Rowlands, Gwilym, Sam Purkis, Bernhard Riegl, Ameer Abdulla, Andrew Bruckner, Philip Renaud</i>
1600 – 1630	Afternoon tea
1630	Multi-disciplinary approach for coral reef management in Eparses Islands, SWIO <i>*Chabanet, P., L. Bigot, J.B. Nicet, S. Andréfouët, A.F. Bourmaud, C. Conand, P. Durville, R. Fricke, N. Gravier-Bonnet, L. Mattio, O. Le Pape, T Mulochau, H. Magalon, D. Obura, J. Poupin, J.P. Quod, E. Tessier, M. Zubia</i>

Tuesday 10 July Oral presentation program

18C cont.

1645	The role of scale in understanding cold-water corals habitats *Devillers, Rodolphe, Evan Edinger, Vincent Lecours, Krista Jones
1700	Filling the gaps: spatially representing social and economic indicators *Pert, Petina, Erin Bohensky, Adeline Bailly-Vaulont, Margaret Gooch, Nadine Marshall, Colette Thomas, Renae Tobin
1715	Mapping impacts of small-scale fishing on coral reefs *Selgrath, Jennifer C., Amanda C.J. Vincent
1730	Cost-effectiveness of habitat-based conservation planning for Solomon Islands coral reefs *Hamel, Melanie A., Robert L. Pressey, Serge Andréfouët

Theme 19: Human impacts on coral reefs

0930 – 1800	19A Human impacts on coral reefs
Room	Sebel Kuranda
Chair	Natalie Ban
0930	Submarine cable impacts on benthic communities in Bermuda *McKenna, Sheila
0945	Synergistic effects of bleaching and dredging on coral reefs *Field, Stuart, Richard Evans, George Shedrawi, Kevin Crane
1000	Surface sediment composition as an indicator of sedimentation stress and nutrient level in coral reefs *Li, Xiubao, Hui Huang, Jianhui Yang, Feng You
1015	Climatic and anthropogenic drivers of river runoff in northeast Madagascar *Grove, Craig, Joseph Maina, Hans de Moel, Jan Vermaat, Joshua Madin, Geert-Jan Brummer, Jens Zinke
1030	Interpretation to manage marine recreational resource use in Kenya *Den Haring, Sander
1045 – 1115	Morning tea
1115	Relating molluscs species traits to environmental variables in marginal reefs *Rachello-Dolmen, Paola G., Daniel F.R. Cleary, Winston F. Ponder, John M. Pandolfi

1130	Potential endocrine disruption in fish from the Great Barrier Reef region *Hook, Sharon, Frederieke Kroon, David Westcott
1145	Ordnance reef coral impact assessment and mitigation *Wehner, Diane, Matthew Parry, Robert O'Conner, Paul Murakawa
1200	Ningaloo Reef (WA): how do we manage our natural environments? *Sporcic, Miriana, Elizabeth Fulton, Randall Gray, Roger Scott, Rebecca Gorton, Mark Hepburn
1215	Assessment of the lionfish invasion off Bocas Del Toro Archipelago Fehr, Amy, Liat Krongrad, Alexandra Duscher, Lais Chaves, Eric Fleming, Joao Feitosa, Adrienne George, Kristen Gloeckler, Aliah Irvine, Micah Marty, Elizabeth McGinty, Michelle Nagy, Carlos Ormond, Grace Otto, Christian Paullin, Tara Seely, Lauren Van Heukelem, *Adara Withers
1230	Direct dredging and shipping impacts on southeast Florida coral reefs *Walker, Brian, Dave Gilliam, Richard Dodge
1245	Effects of introduced predatory Grouper Roi on Hawaiian fish assemblage *Wiggins, Chad, Eric Conklin, Charles Birkeland, Alan Friedlander, Jonatha Giddens, Kosta Stamoulis
1300 – 1400	Lunch
1400 – 1500	Plenary: Geoffrey Jones: Larval fish dispersal, Plenary Hall 2
1500	Fate of re-suspended dredge material at Apra Harbor, Guam *King, David, Deborah Shafer, Tahirih Lackey, Joseph Galaini
1515	Does collecting inhibit the recovery of anemone and anemonefish populations after a bleaching event? *Jones, Alison
1530	2011 Fukushima nuclear accident: implications for the tropical Asia/Pacific region *Szymczak, Ron
1545	The importance of heterotrophic adaptations of corals to maintain energy reserves *Seemann, Janina, Claudio Richter, Ulrich Struck, Reinhold Leinfelder

Tuesday 10 July Oral presentation program

19A cont.

1600 – 1630	Afternoon tea
1630	Monitoring of Marine Protected Areas and resilience of coral reefs <i>*Durgappa, Sanna, Sonya Sukumaran</i>
1645	Does capacity building and community engagement improve the protection of near-shore coral reefs? <i>DeWan, Amielle, *Eleanor Carter, Stuart Green, Pablo Rojas, Katherina Tjandra</i>
1700	Dynamics of reef-based livelihoods in Punta Cana, Dominican Republic <i>*Talaue McManus, Liana, Megan Stone</i>
1715	Assessing community resilience to climate change <i>*Vella, Karen, Allan Dale, Alison Cottrell, Bob Stevenson, David King, Margaret Gooch</i>
1730	Impacts of marine debris on sea turtles <i>*Schuyler, Qamar</i>
1745	Characterizing harmful behaviors of divers and snorkelers to coral reefs in Puerto Rico <i>*Jakubowski, Karin, Thomas Webler</i>

Theme 21: Water quality: impacts & management

0930 – 1030	21C Exploited lagoons
Room	MR3
Chair	Nabila Gaertner-Mazouni
0930	Giant clam fisheries in French Polynesia: benefits, constraints and new issues <i>*Mazouni, Nabila, Georges Remoissenet, Serge Andréfouët, Arsene Stein, Dominique Laurent, Mireille Chinain, Loïc Charpy, Marae Lo Wing, Jean-Marc Jouve</i>
0945	Sustainable development of pearl farming industry in French Polynesia <i>*Gueguen, Yannick, Denis Saulnier, Pierre Garen, Chin Ky, Caroline Montagnani, Cedrik Lo, Nabila Gaertner-Mazouni, Gilles Le Moullac</i>

1000	Sampling protocol effects on the assessment of species diversity in exploited lagoons <i>*Gaertner, Jean-Claude, Frédéric Milhet, Marc Taquet, Bastien Mérigot, Jude Bijoux, Rodney Quatre, Nabila Mazouni, Jean-Pierre Durbec</i>
1015	Interactions between pearl-oyster culture and water-column in French Polynesia lagoons <i>*Lacoste, Elise, Nabila Mazouni, Yannick Gueguen, Gilles Le Moullac, Loïc Charpy</i>

Tuesday 10 July Other activities

Exhibition opening hours

0800-1630

Associated meetings, events and workshops

OPEN

Coral Reef Remote Sensing 1300-1345, MR1

Introduce state-of-the-art book on mapping, monitoring and management of coral reefs using remote sensing.

OPEN

Octocoral Research Network 1300-1345, MR3

Informal gathering of octocoral researchers.

OPEN

CoralNet: A public demonstration of an online, automated coral reef imagery annotation system 1800-1900, MR1

Demonstration and discussion of CoralNet: an online, automated coral reef imagery annotation system.

OPEN

ISRS Annual General Meeting 1800-1900, Hall A

INVITATION ONLY

Planning Meeting: Programs 2 and 3 1300-1345, MR5

Planning meeting for programs 2 and 3 in the ARC CoECS.

INVITATION ONLY

Working Group on Coral Reef Resilience for Pacific Island Managers 1800-1900, MR3

INVITATION ONLY

ACOR 1800-1900, MR5

Annual meeting of the ACOR group, French Society for Reef Studies.

Wednesday 11 July Program

Mini-Symposia index for oral presentations

Mini-Symposium	Time	Room
1A Reef & reef island geomorphology	0930-1300	Sebel Tully
2A Pantropical palaeontology of Cenozoic coral reefs	1400-1600	Sebel Tully
2B Coral reefs: is the past the key to the future?	1630-1800	Sebel Tully
4A Water motion, abiotic & biotic processes on coral reefs	1400-1745	Sebel Mossman
4B Chemical ecology of coral reef ecosystems	0930-1045	Sebel Mossman
5B Sensor networks & their applications	1115-1300	Sebel Mossman
5C Genomics & proteomics as tools for detecting sub-lethal stress	0930-1045	MR3
6B Mechanisms of calcification	0930-1045	MR1
6C Coral physiology & energetics	1115-1800	MR1
8D Effects of ocean acidification	1400-1745	MR5
9A Coral bleaching & climate change	0930-1730	Plenary Hall 2
11A Ecology & macroecology	0930-1600	Hall D
11D Boom & bust of urchins & starfish	1630-1800	Hall D
13E Fisheries	0930-1800	Hall A
14A Ecological importance of larval dispersal	0930-1745	Hall C
15B Seagrasses & seagrass ecosystems	0930-1045	MR 5
15C Physiology & ecology of cyanobacteria, & sponges	1430-1730	Sebel Kuranda
15D Biodiversity & coevolution of organisms associated with corals	1115-1245	MR5
16B Coral-microbe interactions & disease	1115-1800	MR3
17D Managing bleached coral reefs	0930-1045	Sebel Kuranda
18B Managing coral reef ecosystems under a changing climate	1115-1800	Hall B
18C Spatially-explicit & multi-disciplinary approaches for coral reef conservation	0930-1045	Hall B
18E Future of the Coral Sea reefs & sea mounts	1115-1300	Sebel Kuranda
19C Trade in coral reef wildlife	1400-1545	Sebel Kuranda
20A Restoration of coral reefs	0930-1800	Sebel Bluewater

Wednesday 11 July Program

Scientific program at a glance

0830	Plenary Hall 2 Peter Kareiva Plenary: Just how fragile are coral reefs?												
	Plenary Hall 2	Hall A	Hall B	Hall C	Hall D	MR1		MR3	MR5	Sebel Tully	Sebel Kuranda	Sebel Mossman	Sebel Bluewater
0930	9A cont: Coral bleaching & climate change	13E: Fisheries	18C cont: Spatially-explicit & multi-disciplinary approaches for coral reef conservation	14A cont: Ecological importance of larval dispersal	11A cont: Ecology & macroecology	6B cont: Mechanisms of calcification		5C: Genomics & proteomics as tools for detecting sub-lethal stress	15B cont: Seagrasses & seagrass ecosystems	1A: Reef & reef island geomorphology	17D: Managing bleached coral reefs	4B: Chemical ecology of coral reef ecosystems	20A: Restoration of coral reefs
1045	Morning tea												
1115	9A	13E	18B: Managing coral reef ecosystems under a changing climate	14A	11A	6C: Coral physiology & energetics		16B: Coral-microbe interactions & disease	15D: Biodiversity & coevolution of organisms associated with corals	1A	18E: Future of the Coral Sea reefs and sea mounts	5B: Sensor networks & their applications	20A
1300	Lunch (Cairns Convention Centre)												
1400	9A	13E	18B	14A	11A	6C		16B	8D: Effects of ocean acidification	2A: Pantropical palaeontology of Cenozoic coral reefs	19C: Trade in coral reef wildlife	4A: Water motion, abiotic & biotic processes on coral reefs	20A
1600	Afternoon tea												
1630	9A	13E	18B	14A	11D: Boom & bust of urchins & starfish	6C		16B	8D	2B: Coral reefs: Is the past the key to the future?	15C: Physiology & ecology of cyanobacteria, & sponges	4A	20A

Wednesday 11 July Oral presentation program

Create your own daily program for Wednesday 11 July

Time	Presenter	Venue	Room Number
0830-0915	Peter Kareiva Plenary	Cairns Convention Centre	Plenary Hall 2
0915-0930	Transition		
0930			
0945			
1000			
1015			
1030			
1045-1115	Morning tea		
1115			
1130			
1145			
1200			
1215			
1230			
1245			
1300-1400	Lunch		
1400			
1415			
1430			
1445			
1500			
1515			
1530			
1545			
1600-1630	Afternoon tea		
1630			
1645			
1700			
1715			
1730			
1745			

* Indicates presenter

Theme 1: Reefs through time

0930 – 1255	1A Reef & reef island geomorphology
Room	Sebel Tully
Chair	Scott Smithers
0930	Impacts of Cyclone Yasi on nearshore reefs of the GBR <i>*Perry, Chris, Scott Smithers, Paul Kench</i>
0945	Sediment mixing depth in sand aprons in coral reef environments <i>*Vila-Concejo, Ana, Daniel Harris, Hannah Power, Amelia Shannon, Jody Webster</i>
1000	Geomorphic impacts of November 2008 wave event on Nukatoa, PNG <i>*Smithers, Scott</i>
1015	A sediment-budget modelling approach to the geomorphology of reef islands <i>*Woodroffe, Colin, Javier Leon, Naomi Biribo, Sarah Hamylton, Stephen Barry, Peter Cowell</i>
1030	Influence of reef geometry on wave attenuation in a Brazilian coral reef <i>*Costa, Mirella, Moacyr Araujo, Tereza Araujo</i>
1035	Hydrodynamic process controls on reef platform sedimentation <i>*Mandlier, Philipp, Paul Kench</i>
1040	Simulating SLR and increased wave activity influence on reef accretion <i>*Hamylton, Sarah</i>
1045 – 1115	Morning tea
1115	Sediment flux and off-reef export on the Vabbinfaru reef platform, North Malé Atoll, Maldives <i>*Morgan, Kyle, Paul Kench</i>
1130	Morphodynamic response of reef islands to climate change: the importance of benthic foraminifera <i>*Dawson, John, Scott Smithers, Quan Hua</i>
1145	Holocene development of an atoll-rim reef in the Maldives <i>*Kan, Hironobu, Yusuke Yokoyama, Atsushi Suzuki, Yosuke Nakashima, Mahmood Riyaz</i>

Wednesday 11 July Oral presentation program

1A cont.

1200	Geomorphology and evolution of reef islands in New Caledonia <i>*Yamano, Hiroya, Guy Cabioch, Christophe Chevillon, Jean-Lambert Join</i>
1215	Quaternary influence on the contemporary habitats of Cay Sal, Bahamas <i>*Purkis, Sam, Jeremy Kerr, Bernhard Riegl, Alexandra Dempsey, Andrew Bruckner, Philip Renaud</i>
1230	Beach development on a high carbonate island, Niue, Pacific Ocean <i>*Kennedy, David, Helene Marsters</i>
1245	Reefs islands on the move: resolving centennial-scale morphodynamics of islands in Funafuti Atoll, Tuvalu <i>*Kench, Paul, Dean Thompson</i>
1250	Determining back-reef sediment transport using linear wave theory <i>*Harris, Daniel, Ana Vila-Concejo, Jody Webster</i>

Theme 2: Palaeontology

1400 – 1600	2A Pantropical palaeontology of Cenozoic coral reefs
Room	Sebel Tully
Chair	James Klaus
1400	Free-living corals of the pan-tropical Cenozoic <i>*Klaus, James, Kenneth Johnson, Donald McNeill, Ann Budd</i>
1415	Niche conservatism is stronger in ancestors than descendants <i>*O'Dea, Aaron</i>
1430	On the origins of the coral diversity in Southeast Asia <i>*Santodomingo, Nadiezhda, Kenneth Johnson, Willem Renema</i>
1445	Climate as a driver for past Indo-Pacific coral reef development <i>*Mihaljevic, Morana, Kevin Welsh, Willem Renema, John M. Pandolfi</i>
1500	Filling the 'Paleogene Gap': coral diversity from Oligocene Borneo <i>*McMonagle, Laura</i>
1515	Georeferencing and geostatistics for coral reef modeling <i>*Martin-Garin, Bertrand, Sophie Viseur, Jean-Philippe Pero, Anne Ribaud-Laurenti, Gilles Conesa, Evan Edinger</i>
1530	Long live the dead: per-capita preservation probabilities of lagoonal molluscs <i>*Kosnik, Matthew</i>

1545	Towards a synthesis of Cenozoic pantropical paleontology <i>*Johnson, Kenneth, James Klaus, Willem Renema, Jonathan Todd</i>
1630 – 1800	2B Coral reefs: is the past the key to the future?
Room	Sebel Tully
Chair	George Stanley
1630	Ocean acidification and the 'Naked Coral' hypothesis <i>*Stanley, George D.</i>
1645	The Pleistocene Key Largo reef: a key to the future? <i>*Gischler, Eberhard, Harold Hudson, David Storz</i>
1700	Reconstructing a pristine non-coral reef community in the southwestern Caribbean <i>*Fredston-Hermann, Alexa, Aaron O'Dea, Felix Rodriguez, Stephen Pacala, William Thompson</i>
1715	Adaptation potential of 'Reef Ecosystem Atavisms' for the Anthropocene <i>Leinfelder, Reinhold R., *Janina Seemann, Georg A. Heiss, Ulrich Struck</i>
1730	Historical context for the decline of Caribbean coral reefs <i>*Greenstein, Benjamin, John Pandolfi, Chelsea Korpany</i>
1745	Climatic control of Oxfordian reef coral distribution (Late Jurassic) <i>Martin-Garin, Bertrand, *Bernard Lathuiliere, Jörn Geister, Karl Ramseyer</i>
1750	Partial mortality and re-sheeting in fossil corals: a disease proxy <i>*Lescinsky, Halard</i>
1755	Reef accretion on the outer shelf of southwest Puerto Rico <i>*Sherman, Clark, Wilson Ramirez, Marianela Mercado</i>

Theme 4: Biophysical processes

1400 – 1745	4A Water motion, abiotic & biotic processes on coral reefs
Room	Sebel Mossman
Chair	James Hench
1400	Understanding and parameterizing roughness in circulation models of coral reefs <i>*Hench, James, Johanna Rosman, Kiley Yeakel, Antoine Collin</i>

Wednesday 11 July Oral presentation program

4A cont.

1415	Seasonal circulation and temperature variability off Ningaloo Reef, Western Australia <i>*Lowe, Ryan, Greg Ivey, Richard Brinkman, Nicole Jones</i>
1430	DOC dynamics analysis with a new biogeochemical reef ecosystem model <i>*Yamamoto, Takahiro, Atsushi Watanabe, Takashi Nakamura, Kazuo Nadaoka, Toshihiro Miyajima, Yasuaki Tanaka, Yoshimi Suzuki, Beatriz Casareto, Ariel Blanco</i>
1445	Modelling calcification in coral reefs using a coupled physical-biogeochemical approach <i>*Zhang, Zhenlin, James Falter, Ryan Lowe, Greg Ivey</i>
1500	Influence of flow on the symmetry of branching corals <i>*Chindapol, Nol, Jaap Kaandorp, Tali Mass, Amatzia Genin</i>
1515	Quantifying wave stress on coral reefs <i>*Vetter, Oliver J., Jamison M. Gove</i>
1530	Implications of small scale spatial patterns in flow on coral reefs <i>*Rosman, Johanna, James Hench</i>
1545	Large and small-scale variability of Great Barrier Reef upwelling <i>*Furnas, Miles</i>
1600 – 1630	Afternoon tea
1630	Impacts of hydrodynamic shifts on coral condition at Ningaloo Reef <i>*Hinrichs, Saskia, Anya Waite, Nicole Patten, Carolyn Oldham, Daniel Strickland, Ming Feng, Athanasios Vafeidis</i>
1645	How important is flow-delivered organic carbon to coral back reefs? <i>*Alldredge, Alice, Craig Carlson, Vincent Moriarty, Craig Nelson, Robert Carpenter</i>
1700	The importance of low frequency waves in fringing reef environments <i>*Pomeroy, Andrew, Ryan Lowe, Ap van Dongeren, Jaap van Thiel de Vries, Graham Symonds, Jan Roelvink</i>
1715	Waves shape intraspecific variation in a widespread damselfish <i>*Binning, Sandra</i>

1730	DMS production from coral reefs and its Influence on the atmospheric aerosol over Heron Island <i>*Jones, Graham, Zoran Ristovski, Elizabeth Deschaseaux, Branka Miljevic, Petri Vaatavora, Hilton Swan</i>
0930 – 1045	4B Chemical ecology of coral reef ecosystems
Room	Sebel Mossman
Chair	Valerie Paul
0930	Insights into the chemical ecology of fish aggregations over reefs <i>*DeBose, Jennifer, Valerie Paul</i>
0945	Social learning and acquired recognition in a marine fish <i>*Manassa, Rachel, Mark McCormick</i>
1000	Sex steroids induce corals to spawn <i>*Fogarty, Nicole, Raphael Ritson-Williams, Valerie Paul</i>
1015	Patterns in Australian marine bioactivity: are coral reefs bioactivity hot spots? <i>*Evans-Illidge, Elizabeth, Murray Logan, Lyndon Llewellyn, Jason Doyle, David Abdo, Jane Fromont, Christopher Battershill, Carsten Wolff, Andrew Muirhead, Gavin Ericson</i>
1030	Phosphorus species characterization by ³¹ P-NMR in the coral <i>Stylophora pistillata</i> <i>*Grover, Renaud, Claire Godinot, Christine Ferrier-Pagès</i>
1035	Chemical proxies of floods and upwelling in otoliths and corals <i>*Walther, Benjamin, Michael Kingsford, Malcolm McCulloch</i>
1040	Algal chemical ecology: from compounds to communities <i>*Paul, Valerie, Raphael Ritson-Williams, Sarath Gunasekera</i>

Theme 5: Technologies for coral reef science

1115 – 1300	5B Sensor networks & their applications
Room	Sebel Mossman
Chairs	Lew Gramer, Ruben van Hooijdonk
1115	Wireless architectures for coral reef environmental monitoring <i>*Hendee, James, Michael Jankulak, Michael Shoemaker, Lew Gramer, Jon Fajans, Tim Burgess, Scott Heron, Natchanon Amornthammarong, Scott Bainbridge, William Skirving</i>

Wednesday 11 July Oral presentation program

5B cont.

1130	Effect of environmental noise on detection probability of acoustic tags *Cagua, Fernando, Elizabeth Tyler, Michael Berumen
1145	The DataTurbine Android Buoy Controller for coral reef monitoring *Fountain, Tony, Peter Shin, Sameer Tilak, Sally Holbrook, Robert Carpenter, Andrew Brooks, Russell Schmitt, Gesuri Rameriz
1200	NOAA SeaDroid: low-cost, real-time water temperature logging *Burgess, Tim, Jim Hendee, Scott Heron, Scott Bainbridge, Lew Gramer
1215	Sensor networks applications for reefs at Racha Island, Thailand *Jaroensutasinee, Mullica, Krisanadej Jaroensutasinee, Scott Bainbridge, Tony Fountain, Sirilak Chumkiew, Premrudee Noonsang, Uthai Kuhapong, Sornthep Vannarat, Amporn Poyai, Michael Nekrasov
1230	CREON: Integrating disparate sources of remote coral reef sensor data *Jaroensutasinee, Krisanadej, Mullica Jaroensutasinee, Scott Bainbridge, Tony Fountain, Sally Holbrook, Michael Nekrasov
1245	Spectrophotometric measurements of seawater carbonate ion concentrations and saturation states *Patsavas, Mark, Regina Easley, Xuewu Liu, Xiaoling Ding, Bo Yang, Eric Kaltenbacher, Lori Adornato, Robert Byrne, Richard Feely, Dana Greeley
0930 – 1045	5C Genomics & proteomics as tools for detecting sub-lethal stress
Room	MR3
Chair	Robert Richmond
0930	How corals can tell us what's ailing them *Richmond, Robert, Luc Rougee, Craig Downs, Abby Collier
0945	Coral-algal transcriptomics as a tool for predicting impacts of environmental change *Rosic, Nedeljka, Paulina Kaniewska, Edmund Ling, Kenneth Chen, David Edwards, Sophie Dove, Ove Hoegh-Guldberg
1000	Characterizing transcriptional responses in corals exhibiting Caribbean Yellow Band Disease Goodner, Kyli, *Michael Morgan
1015	Analysis of HSP60 expression in corals subjected to different abiotic and biotic stresses *Seveso, Davide, Ivan Orlandi, Simone Montano, Marina Vai, Paolo Galli

1030	Proteomic response of <i>Stylophora pistillata</i> endosymbionts to moderate "bleaching" stress *Long, Paul, Andrew Weston, Walter Dunlap, J. Malcolm Shick, Anke Kluefer, Katrina Iglic, Ana Vukelic, Antonio Starcevic, Malcolm Ward
1035	Xenobiotic metabolizing enzymes: tools for coral reef conservation *Rougee, Luc, Abby Collier, Robert Richmond

Theme 6: Physiology & functional biology

0930 – 1040 6B Mechanisms of calcification

Room	MR1
Chair	Sylvie Tambutté
0930	A spatial model of calcification in scleractinian corals *Kaandorp, Jaap, Carolina Cronemberger, Lotte Huisman, Denis Allemand
0945	Incorporation of gravel into reef coral skeletons *Nothdurft, Luke, Gregory Webb, Matthew Lybolt, David Warne, Roland Steck
1000	Coral calcification in a variable coral reef environment *Ruiz-Jones, Guadalupe, Daniel Barshis, Stephen Palumbi
1015	How open is the site of calcification? *Tambutté, Sylvie, Eric Tambutté, Natacha Segonds, Didier Zoccola, Alexander Venn, Jonathan Erez, Denis Allemand
1030	Skeletal density and microstructure of the calcifying coral <i>Pocillopora damicornis</i> *Huang, Hui, Cheng Ye
1035	Response of carbonic anhydrases to pCO ₂ in <i>Stylophora pistillata</i> *Bertucci, Anthony, Sylvie Tambutté, Eric Tambutté, Claudiu T. Supuran, Denis Allemand, Didier Zoccola
1115 – 1800	6C Coral physiology & energetics
Room	MR1
Chair	Christine Ferrier-Pagès
1115	What combinations of coral species and <i>Symbiodinium</i> are more resilient to repetitive bleaching? *Grottoli, Andrea, Mark Warner, Stephen Levas, Verena Scheopf, Matthew Aschaffenburg, Michael McGinley, Yohei Matsui

Wednesday 11 July Oral presentation program

6C cont.

1130	<i>Symbiodinium</i> carbon limitation: parameters and feedback with thermal stress *Oakley, Clinton, William Fitt, Brian Hopkinson, Gregory Schmidt
1145	Photoprotection of <i>Symbiodinium</i> differs between two scleractinian corals *Krämer, Wiebke, Verena Schrammeyer, Ross Hill, Peter J. Ralph, Kai Bischof
1200	Photoprotection through antenna complex dissociation in scleractinian coral symbionts *Hill, Ross, Anthony Larkum, Ondrej Prasil, David Kramer, Vinod Kumar, Peter Ralph
1215	Elevated nutrient levels and stability of the coral-dinoflagellate symbiosis *Devlin, Quinn, Peter Swart
1230	The metabolome of <i>Symbiodinium</i> phylotypes and their coral hosts *Gordon, Benjamin, Bill Leggat, Cherie Motti
1245	Nutrient transfer from zooxanthellae and host anemone to resident anemonefishes *Verde, E. Alan, Ann Cleveland, Raymond W. Lee
1250	Alternative photosynthetic electron pathways in symbiotic dinoflagellates of reef-building corals *Roberty, Stephane, Pierre Cardol, Fabrice Franck
1300 – 1400	Lunch
1400	Characterization of Photosystem II electron transport in cultured <i>Symbiodinium</i> Vass, Imre, Ross Hill, Peter Ralph, *Anthony Larkum
1415	Effect of environmental parameters on scleractinian coral nutrition *Nahon, Sarah, Nicole Richoux, Martin Desmalades, Véronique Berteaux Lecellier, Serge Planes
1430	Alternate methods of estimating light respiration in two species of corals *Ralph, Peter, Daniel Wangpraseurt, Verena Schrammeyer, Ross Hill, Anthony Larkum, Michael Kühl

1445	Species-specific dependencies of energy dissipation pathways in two hardcoral species *Schrammeyer, Verena, Ross Hill, Martina Doblin, Anthony W.D. Larkum, Peter J. Ralph
1500	Seasonal shift from autotrophy to heterotrophy in a temperate symbiotic coral <i>Cladocora caespitosa</i> *Reynaud, Stéphanie, Andrea Peirano, Silvia Cocito, Riccardo Rodolfo-Metalpa, Christine Ferrier-Pages
1515	Prokaryote vs Eukaryote biosynthesis of mycosporines and mycosporine-like amino acids *Dunlap, Walter, Edward Spence, Malcolm Shick, Paul Long
1530	Heterotrophic behavior of <i>Goniopora lobata</i> in Hong Kong *Chow, Ming Him, Put O. Ang
1545	Trophic changes in corals responding to light quantity and quality *Ziegler, Maren, Cornelia Roder, Christian Voolstra
1600 – 1630	Afternoon tea
1630	Coral auto- and heterotrophic responses to large amplitude internal waves *Pacherres, Cesar O., Gertraud M. Schmidt, Claudio Richter
1645	Metabolic performance of <i>Pocillopora verrucosa</i> along the S-N gradient in the Red Sea *Sawall, Yvonne, Abdulmohsin Al-Sofyani, Martin Wahl
1700	Light and oxygen modulate effects of heterotrophy on coral calcification *Wijgerde, Tim, Saskia Jurriaans, Marleen Hoofd, Johan A.J. Verreth, Ronald Osinga
1715	Coral micropropagation: lessons learned and possible uses *Kramarsky-Winter, Esti, Maya Vizel, Yossi Loya
1730	Effects of pCO ₂ and heterotrophy on <i>Seriatorpora caliendrum</i> spat *Cumbo, Vivian, Tung-Yung Fan, Peter Edmunds
1745	Coral imaging: distribution of zooxanthellae, photosynthetic activity and fluorescent proteins *Leal, Miguel, João Ezequiel, Ricardo Calado, Rui Rocha, João Seródio

Wednesday 11 July Oral presentation program

6C cont.

1750	Seasonal upwelling stimulates primary production of Colombian Caribbean coral reefs <i>*Eidens, Corvin, Elisa Bayraktarov, Valeria Pizarro, Thomas Wilke, Christian Wild</i>
1755	Effect of ammonium enrichment on the photosynthetic efficiency of corals under thermal stress <i>*Béraud, Eric, François Gevaert, Cécile Rottier, Christine Ferrier-Pagès</i>

Theme 8: Ocean acidification

1400 – 1745	8D Effects of ocean acidification
Room	MR5
Chair	Chris Langdon
1400	Carbonate chemistry at CO ₂ seeps in Papua New Guinea <i>*Langdon, Christopher, Katharina Fabricius, Sven Uthicke, Craig Humphrey, Remy Okazaki</i>
1415	Tropical CO ₂ seeps: effects of ocean acidification on benthic foraminifera <i>*Uthicke, Sven, Paolo Momigliano, Katharina Fabricius</i>
1430	Ocean acidification increases juvenile coral mortality from herbivorous fish grazing <i>*Doropoulos, Christopher, Alicia Lloyd, Selina Ward, Guillermo Diaz-Pulido, Peter Mumby</i>
1445	Diverse responses of coral reef organisms to ocean acidification <i>*Kurihara, Haruko, Takahiro Kobuchi, Asami Takahashi, Tomoki Watanabe, Tomoaki Shikota, Naoki Fuda</i>
1500	Relationship between pCO ₂ and the physiology of eight reef species <i>*Comeau, Steve, Peter Edmunds, Robert Carpenter</i>
1515	Increased temperature and pCO ₂ effects on ten Caribbean coral species <i>*Okazaki, Remy, Erica Towle, Chris Langdon, Peter Swart</i>
1530	Response of coral symbiosis to ocean acidification and thermal stress <i>*Ogawa, Daisie, Teresa Bobeszko, Bill Leggat, Tracy Ainsworth, Benjamin Gordon</i>
1600 – 1630	Afternoon tea

1630	Tropical CO ₂ seeps: ecological adaptations and processes at elevated CO ₂ <i>*Fabricius, Katharina, Sven Uthicke, Craig Humphrey, Chris Langdon, Dirk DeBeer, Jason Hall-Spencer, Bayden Russell, Stephanie Reynaud, Glenn De'ath, Janice Lough</i>
1645	Ocean warming and acidification on early life history of corals <i>*Chua, Chia-Miin, Andrew H. Baird, William Leggat</i>
1700	Roles of biogeochemical processes in coralline-algae dissolution under climate change <i>*Reyes-Nivia, Catalina, Guillermo Diaz-Pulido, Sophie Dove</i>
1715	Carbonate chemistry influences recruitment and physiology of tropical calcified algae <i>*Johnson, Maggie, Nichole Price, Jennifer Smith</i>
1730	Ocean acidification affects community structure of crustose coralline algae <i>*Ordonez-Alvarez, Alexandra, Guillermo Diaz-Pulido, Christopher Doropoulos</i>

Theme 9: Climate change & bleaching

0930 – 1730	9A Coral bleaching & climate change
Room	Plenary Hall 2
Chair	Ray Berkelmans
0930	Thermal stress physiology and mortality responses in scleractinian corals of Mauritius <i>*Mattan-Moorgawa, Sushma, Ranjeet Bhagooli, Soonil Rughooputh</i>
0945	Interactions between bleaching and white syndrome on the Great Barrier Reef <i>*Ban, Stephen, Nick Graham, Sean Connolly</i>
1000	Coral and zooxanthellae selection which are resistant to global warming <i>*Yusuf, Muh</i>
1015	Working with nature to identify coral reefs with increased environmental tolerance <i>*Walsh, Sarah-Jane, David Smith, David Suggett, Patrick Brading</i>
1030	Identifying patterns of coral bleaching using CoralWatch data <i>*Dean, Angela, Diana Kleine, Justin Marshall</i>

Wednesday 11 July Oral presentation program

9A cont.

1045 – 1115 Morning tea	
1115	Autophagic pathway components play a role in cnidarian bleaching <i>*Paxton, Camille, Jessica Flesher, Virginia Weis</i>
1130	Developing new perspectives on <i>Symbiodinium</i> photosynthesis and coral bleaching <i>*Tolleter, Dimitri, François Seneca, TingTing Xiang, Stephen Palumbi, Arthur Grossman</i>
1145	An applied high latitude eastern Australian coral bleaching model <i>*Dalton, Steven, Andrew Carroll</i>
1200	Bioerosion of <i>in situ</i> coral colonies: St. John, US Virgin Islands <i>*Whitcher, Elizabeth, Dennis Hubbard, Karla Parsons-Hubbard, Jeff Miller</i>
1215	The presence of DMSP, DMS and acrylate in GBR corals <i>*Motti, Cherie, Dianne Tapiolas, Jean-Baptiste Raina</i>
1230	Examining coral bleaching through the analysis of the <i>Symbiodinium</i> transcriptome <i>*Xiang, Tingting, Elizabeth Hambleton, Jan DeNofrio, Dimitri Tolleter, John Pringle, Arthur Grossman</i>
1300 – 1400 Lunch	
1400	Repetitive bleaching, photobiology, and <i>Symbiodinium</i> balance in three Caribbean corals <i>*Warner, Mark, Andrea Grottoli, Matthew Aschaffenburg, Michael McGinley, Stephen Levas, Verena Schoepf</i>
1415	Post-bleaching <i>Symbiodinium</i> clade, not prior stress exposure, determines coral thermotolerance <i>*Silverstein, Rachel, J. Ross Cunning, Andrew Baker</i>
1430	Evidence of local thermal adaptation in a Caribbean coral <i>*Kenkel, Carly, Gretchen Goodbody-Gringley, Erich Bartels, Sarah Davies, Anna Percy, Mikhail Matz</i>
1445	Latitudinal distribution of algal symbionts (<i>Symbiodinium</i> spp.) in corals of Madagascar <i>*Boonstra, Roxane, Herman Wirshing, Faratiana Ratsifandriamanana, Timothy McClanahan, Andrew Baker</i>

1500	Dynamics of mixed <i>Symbiodinium</i> communities in corals recovering from bleaching <i>*Cunning, Ross, Rachel Silverstein, Andrew Baker</i>
1515	Successive coral bleaching events on the world's southernmost coral reef <i>*Carroll, Andrew, Steven Dalton, Peter Harrison</i>
1530	Can thermally tolerant symbionts slow the decline of Caribbean reefs? <i>*Ortiz, Juan C., Manuel Gonzalez-Rivero, Peter J. Mumby</i>
1545	Coral bleaching reversal in two Pacific <i>Acropora</i> species <i>*Von Herzen, Brian, Doug Fenner, Kelley Anderson</i>
1600 – 1630 Afternoon tea	
1630	Symbiont displacement in reef corals in an era of global change <i>*Baker, Andrew</i>
1645	Causes of differential coral bleaching in space and time <i>*Bradbury, Dominique, Morgan Pratchett, Andrew Baird</i>
1700	Microscopical investigations reveal autophagy-related bleaching in <i>Aiptasia pallida</i> <i>*Hanes, Shanna, Stephen Kempf</i>
1715	Coral bleaching and the robustness trade-offs <i>*Iglesias-Prieto, Roberto, Susana Enríquez, Eugenio Méndez, Mónica Medina, Hiroaki Kitano</i>

Theme 11: Ecological dynamics, resilience & phase shifts

0930 – 1600 11A Ecology & macroecology	
Room	Hall D
Chair	Sean Connolly
0930	Predicted fish diversity erosion from coral habitat loss <i>*Mouillot, David, Michel Kulbicki, René Galzin, Dominique Gravel, Mireille Harmelin-Vivien, Nicolas Mouquet, David Bellwood</i>
0945	The cascading effects of predators on coral reefs <i>*Sandin, Stuart</i>
1000	Post-settlement events influence on coral population structure: a multi-scale analysis along a latitudinal gradient <i>*Penin, Lucie, Mehdi Adjeroud</i>

Wednesday 11 July Oral presentation program

11A cont.

1015	Second order ecological implications of climate change for coral communities <i>*Done, Terry</i>
1030	Benthic succession following coral bleaching and disease at Palmyra Atoll <i>*Harris, Jill, Gareth Williams, Jennifer Smith</i>
1035	Pearl Oysters (<i>Pinctada</i>) of Midway Atoll, Northwestern Hawaiian Archipelago <i>*McCully, Kristin, Donald Potts</i>
1040	Relative contributions of environmental factors to the subtidal molluscan assemblages in subtropical coral reefs <i>*Kawai, Takashi, Takashi Sakamaki</i>
1045 – 1115	Morning tea
1115	The ecology of coral larvae: recent findings <i>*Vermeij, Mark, Kristen Marhaver, Aaron Hartmann</i>
1130	Population viability analysis of <i>Seriatopora hystrix</i> in Okinawa <i>*Muko, Soyoka, Seiji Arakaki, Reiko Tamai, Kazuhiko Sakai</i>
1145	The ecology of crustacea on coral reefs <i>*Kramer, Michael, David Bellwood, Orpha Bellwood</i>
1200	Growth pattern and annual increment of tabular type corals <i>*Nojima, Satoshi, Mitsuhiro Ueno, Mineo Okamoto</i>
1215	Quantify relationships among coral mechanical vulnerability, habitat complexity and niche space <i>*Madin, Joshua, Osmar Luiz, Marcela Diaz, Wander Godinho, Aaron Harmer, Elizabeth Madin, Alisha Madsen, Joseph Maina</i>
1230	Associations of genetically distinct <i>Symbiodinium</i> with global ocean climate data <i>*Maina, Joseph, Valentijn Venus, Tim McClanahan, Erik C. Franklin, Ruth D. Gates, Andrew Baker, Hollie Putnam, Michael Stat, Xavier Pochon, Joshua Madin</i>
1245	Primary producer influences on element cycles and microbial ecology in reef environments <i>*Haas, Andreas, Craig Nelson, Linda Wegley Kelly, Craig Carlson, Forest Rohwer, Jennifer Smith</i>

1300 – 1400	Lunch
1400	Positive within-mat feedback facilitated both <i>Cladophora</i> blooms and associated macroalgae <i>*Fong, Peggy, Tyler Smith, Ranjan Muthukrishnan</i>
1415	Nested biogeographic structure of Indo-Pacific coral species <i>*Keith, Sally, Sean Connolly</i>
1430	A sponge loop in coral reefs: energy recycling in benthic ecosystems? <i>*De Goeij, Jasper</i>
1445	Nutritional basis of corallivory in the Red Sea <i>*Masterman, Jessica, Michael Berumen, Randi Rotjan, David Raubenheimer</i>
1500	A primary production budget for a Caribbean reef lagoon <i>*Wild, Christian, Carin Jantzen, Malik S. Naumann, Andreas F. Haas, Roberto Iglesias-Prieto</i>
1515	Top-down versus bottom-up: who's controlling Red Sea coral reef functioning? <i>*Jessen, Christian, Cornelia Roder, Javier Villa Lizcano, Christian R. Voolstra, Christian Wild</i>
1530	Specificity in coral- <i>Symbiodinium</i> interactions and the resilience of reefs <i>*Fabina, Nicholas, Hollie Putnam, Erik Franklin, Michael Stat, Ruth Gates</i>
1545	Coral reef resilience across US-affiliated islands in the Pacific Ocean <i>*Williams, Gareth, Jacob Asher, Russell Brainard, Julia Ehse, Jamison Gove, Timothy Jones, Ivor Williams, Stuart Sandin</i>
1630 – 1755	11D The boom & bust of urchins & starfish
Room	Hall D
Chair	Matthew Young
1630	Sea urchins and their predators on the Great Barrier Reef <i>*Young, Matthew, David Bellwood</i>
1645	Can Marine Protected Areas help stall crown-of-thorns starfish outbreaks? <i>*Morello, Elisabetta, Éva Plagányi, Richard Pillans, Russ Babcock, Hugh Sweatman, André Punt</i>

Wednesday 11 July Oral presentation program

11D cont.

1700	<i>Acanthaster planci</i> : the hunt for prey corals drives the movement of predator seastars during outbreaks *Kayal, Mohsen, Thierry Lison de Loma, Julie Vercelloni, Pauline Bosserelle, Yannick Chancerelle, Sylvie Geoffroy, Céline Stievenart, Lucie Penin, Serge Planes, Mehdi Adjeroud
1715	Algal growth and coral recruitment: distinguishing fish and urchin effects *Cover, Wendy, Donald Potts
1730	Sea urchins dynamics in subtropical Brazilian rocky reefs *Cordeiro, Cesar, Carlos Ferreira
1745	The effectiveness of <i>Diadema</i> in triggering a phase shift reversal *Nimrod, Stephen, Christabelle Andrews, Makeda Matthew, Jerry Mitchell, Coddinton Jeffery, Cecil McQueen
1750	Functional diversity of herbivorous urchins in Maui, Hawaii *Lewis, Levi, Jennifer Smith

Theme 13: Fish & fisheries

0930 – 1800	13E Fisheries
Room	Hall A
Chair	Colin Simpfendorfer
0930	Are the ecological and political spatial scales of fisheries compatible? *Almany, Glenn, Richard Hamilton, Manuai Matawai, Tapas Potuku, Pablo Saenz-Agudelo, Serge Planes
0945	Spillover of naivety to fishing across marine reserve boundaries *Januchowski-Hartley, Fraser, Nick Graham, Joshua Cinner, Garry Russ
1000	Impacts of recreational and artisanal fisheries, Cayman Islands, Caribbean *Turner, John, Croy McCoy, Rhiannon Meier, Laura Richardson, Mark Orr
1015	Incorporating visual surveys into population assessments of Hawaiian reef fishes *Nadon, Marc, Jerry Ault, Ivor Williams, Steven Smith
1030	Multidisciplinary approach to fish extirpations in global epicentre of shorefish biodiversity *Lavides, Margarita, Nicholas Polunin

1035	Marine Protected Areas effectiveness on reef fish assemblages, Cayman Islands *McCoy, Croy, John Turner, Charlotte Dromard, Gina Ebanks-Petrie, Timothy Austin, Laura Richardson
1040	Spear-fishing pressure on a source of reef resilience in Micronesia *Bejarano, Sonia, Peter J Mumby, Yimnang Golbuu, Tebaua Sapolu
1045 – 1115	Morning tea
1115	Critical ecological switch points and reef fisheries degradation and recovery *McClanahan, Tim
1130	Fishery reserve effects on sparid recruitment along French Mediterranean coasts *Arceo, Hazel, Adrien Cheminee, Pascaline Bodilis, Luisa Mangialajo, Patrice Francour
1145	Fishing down the herbivores and reef vulnerability *Campbell, Stuart, Andrew Hoey, Effin Muttagin, Shinta Pardede, Andrew Baird
1200	Reef fishes movement patterns in Martinique: is MPA design efficient? *Garcia, Jessica, Gilles Saragoni, Anne Tessier, Helene LeGrand, Yann Rousseau, Philippe Lenfant
1215	Impact of climate change on reef fish fisheries at Sabang Aceh *Rudi, Edi, Nur Fadli, Taufiq Iskandar, Hidayati
1230	Status, trend and sustainability of small-scale fisheries in the Philippines *Muallil, Richard, Reniel Cabral, Samuel Mamauag, Porfirio Aliño
1245	Assessing management scenarios: a spatially-explicit approach for <i>Plectropomus leopardus</i> in New-Caledonia *Preuss, Bastien, Dominique Pelletier, Laurent Wantiez
1300 – 1400	Lunch
1400	Do no-take reserves accumulate older age-classes of heavily exploited parrotfish species? *McIlwain, Jennifer, Jacquelyn Barber, John Howard Choat, Brett Taylor, Justin Mills, Andrew Halford

Wednesday 11 July Oral presentation program

13E cont.

1415	Investigating spillover for a Marine Protected Area in Hawaii <i>*Stamoulis, Kostantinos, Alan Friedlander</i>
1430	Revisiting the source of carbon fueling fisheries on coral reefs <i>*Thorrold, Simon, Kelton McMahon, Michael Berumen</i>
1445	Quantifying the unreported fisheries catch of all Pacific island countries in the larger Pacific basin <i>*Zeller, D., T. Adams, R. Gillett, K. Rhodes, S. Harper, D. Pauly</i>
1500	Moluccas traditional traps: an evaluation based on multi-species analysis <i>*Hutubessy, G., J. Mosse</i>
1515	Ecosystem-based fisheries management: optimizing for multiple species and multiple values <i>*Kellner, Julie, James Sanchirico, Alan Hastings, Peter Mumby</i>
1530	The ecological effects of exploitation on coral reefs <i>*Condy, Michelle, David Bellwood, Joshua Cinner, Tim McClanahan</i>
1545	Managing coral reef fisheries under catch limits: approach and challenges <i>*Sabater, Marlowe, Paul Dalzell, Jarad Makaiau</i>
1600 – 1630	Afternoon tea
1630	Co-management of tropical coastal social-ecological systems <i>*Cinner, Joshua</i>
1645	Poor efficiency and rapid expansion of Vietnamese sea cage aquaculture <i>*Hedberg, Nils, Michael Tedengren, Micaela Hellström</i>
1700	Socotra Archipelago: unique fish diversity meets exceptional productivity <i>*Zajonz, Uwe, Moteah Sheikh Aideed, Fouad Nasseb Saeed, Edouard Lavergne, Rebecca Klaus, Friedhelm Krupp</i>
1715	Where the wild things are: large-bodied coral reef fishes <i>*Richards, Benjamin, Ivor Williams, Oliver Vetter, Gareth Williams</i>
1730	Management options for a traditional humphead wrasse fishery in Fiji <i>*Rokomate-Nakoro, Akosita, Chris Poonian, Maleli Qera</i>
1745	Overexploited but underreported: ground truthing fish catches using Google Earth <i>*Al-Abdulrazzak, Dalal, Daniel Pauly</i>

Theme 14: Larval ecology, recruitment & connectivity

0930 – 1800	14A The ecological importance of larval dispersal
Room	Hall C
Chair	Robert Warner
0930	Decomposing larval connectivity: quantifying the consequences of larval life histories <i>*Trembl, Eric, Hugh Possingham, Cynthia Riginos</i>
0945	Effect of reef eddies and swimming behaviour on larval recruitment <i>*Cetina-Heredia, Paulina, Sean Connolly</i>
1000	Do larvae always matter? The role of adult fish traits <i>*Floeter, Sergio, Osmar Luiz, Joshua Madin, Ross Robertson, Luiz Rocha, Peter Wirtz</i>
1015	Empirical measurement of single-generation larval dispersal kernels with genetics <i>*Pinsky, Malin, Stephen Palumbi, Serge Planes</i>
1030	Selection drives the genetic structure of coral reef fish populations <i>*Gerlach, Gabriele, Jelle Atema, Michael Kingsford</i>
1045 – 1115	Morning tea
1115	Individual-based genetic analysis reveals underlying population dynamics of a reef fish population <i>*Planes, Serge, Oceane Salles, Michael Berumen, Glenn Almany, Pablo Saenz-Agudelo, Simon Thorrold, Geoffrey Jones</i>
1130	Genetic population structure of <i>Siganus spinus</i> across the western Pacific <i>*Priest, Mark, Andrew Halford, Jennifer McIlwain</i>
1145	Connectivity in symbiosis: integrating coral host and <i>Symbiodinium</i> spp. genetic structure <i>*Warner, Patricia, Madeleine van Oppen, Bette Willis</i>
1200	Retention of larvae in a reef mosaic <i>*Andutta, Fernando, Michael Kingsford, Eric Wolanski</i>
1215	Pathways of connectivity amongst West Caribbean Spiny Lobster stocks <i>*Chavez, Ernesto A., Alejandra Chávez-Hidalgo</i>
1230	Predicting the fate of coral larvae with an agent-based model <i>*Ulstrup, Karin, Anna Payne, Greg Stuart, Michael Potthoff</i>

Wednesday 11 July Oral presentation program

14A cont.

1245	Modelling and visualisation of connectivity on the Great Barrier Reef *Condie, Scott, Mark Hepburn, Jim Mansbridge
1250	Predicting fish connectivity among Marine Protected Areas under climate change scenarios *Manel, Stephanie, Marco Andrello, Wilfried Thuiller, David Mouillot
1300 – 1400	Lunch
1400	Larval connectivity and population replenishment in a coastal coral reef metapopulation *Saenz Agudelo, Pablo, Geoffrey Jones, Simon Thorrold, Serge Planes
1415	Larval connectivity assessed with biophysical modelling and otolith transgenerational marking *Cuif, Marion, Christophe Lett, Maylis Labonne, David Kaplan, Laurent Vigliola
1430	Modelling global dispersal and genetic connectivity of broadcast spawning corals *Wood, Sally, Claire Paris, Andy Ridgwell, Erica Hendy
1445	The effects of global warming on patterns of connectivity in corals *Figueiredo, Joana, Andrew Baird, Sean Connolly, Saki Harii
1500	Connecting Kimbe Bay reef fish dispersal with regional circulation *Choukroun, Severine, Xueming Zhu, Rubao Ji, Simon R. Thorrold, Geoffrey P. Jones, Serge Planes, Michael Berumen, Glenn R. Almany
1515	Radar-based tracking of pollutants and larvae in the Coral Sea *Mantovanelli, Alessandra, Malcolm Heron
1530	Simulating dispersal of larvae from reefs in the Coral Triangle *Powell, Thomas M., Ben Steffen, Enrique Curchitser, Joan Kleypas, Frederic Castruccio
1545	Larval recruitment mechanism in 'simultaneous mass spawning' corals *Suzuki, Go, Hiroshi Yamashita, Sayaka Kai, Takeshi Hayashibara, Seiji Arakaki, Kazuhiko Sakai
1600 – 1630	Afternoon tea
1630	Greatly varying realised larval dispersal in broadcast spawning corals *Lukoschek, Vimoksalehi, Madeleine van Oppen

1645	Coral recruitment after a bleaching event in the Red Sea *Khalil, Maha, Jessica Bouwmeester, Andrew Baird, Michael Berumen
1700	Coral genetic connectivity across Micronesia *Davies, Sarah W., Carly D. Kenkel, Mikhail V. Matz
1715	Reconstructing larval connectivity in the Red Sea *Nanninga, Gerrit, Andrea Manica, Ibrahim Hoteit, Anders Eriksson, Michael Berumen
1730	Recruitment patterns and ecologically relevant dispersal distances of brooding corals *Torda, Gergely, Petra Lundgren, Bette Willis, Madeleine van Oppen

Theme 15: Biodiversity & systematics

0930 – 1045	15B Seagrasses & seagrass ecosystems
Room	MR5
Chair	Robert Coles
0930	Hydrodynamic impacts on seagrass in coral reef ecosystems *Saunders, Megan I., Tom Baldock, Ali Golshani, Sarah Hamylton, Javier Leon, Catherine E. Lovelock, Peter J. Mumby, Stuart R. Phinn
0945	Responses of a seagrass bed to fertilization and simulated grazing *Halun, Zayda, James W. Fourqurean
1000	Torres Strait seagrass productivity, climate change resilience and recovery capacity *Taylor, Helen, Michael Rasheed, Skye McKenna
1015	Establishing tropical seagrass light requirements in a dynamic port environment *Chartrand, Kathryn, Michael Rasheed
1030	Monitoring intertidal seagrasses of the GBR and responses to water quality *McKenzie, Len, Catherine Collier, Michelle Waycott, Richard Unsworth, Rudi Yoshida, Naomi Smith

Wednesday 11 July Oral presentation program

15B cont.

1630 – 1745	15C Physiology & ecology of cyanobacteria, & sponges
Room	Sebel Kuranda
Chair	Laurie Richardson
1630	Changes in sponge bioerosion: from experimental evidence to monitoring guidelines *Schoenberg, Christine, M. Wisshak, A. Form, A. Freiwald, K.E. Holmes
1645	Environmental drivers and effects of benthic cyanobacterial mats *Brocke, Hannah, Lubos Polerecky, Dirk de Beer, Bastian Piltz, Nicole Herz, Maggy Nugues
1700	The functional response of bioeroding sponges under disturbance: an ecosystem modelling approach *Gonzalez-Rivero, Manuel, Peter J. Mumby, Christine H. L. Schoenberg, Renata Ferrari, Yves-Marie Bozec, Iliana Chollett
1715	Cyanobacterial mats in tropical lagoons of Indian and Pacific Oceans *Gugger, Muriel, Aurelie Villeneuve, Isidora Echenique, Dominique Laurent, Mireille Chinain, Jean Turquet, Jean-Francois Humbert, Stjepko Golubic
1115 – 1230	15D Biodiversity & coevolution of organisms associated with corals
Room	MR5
Chair	Patrick Scaps
1115	Association between <i>Pedum spondyloideum</i> (Bivalvia, Pectinidae) and live scleractinian corals *Scaps, Patrick
1130	The parasitic flatworm <i>Amakusaplana acroporae</i> : a threat to coral reefs? *Hume, Benjamin, Cecilia D'Angelo, Edward Smith, Joerg Wiedenmann
1145	Microbial community dynamics of coral mucopolysaccharide layer in aquaria settings Pratte, Zoe, *DeEtta Mills, Laurie Richardson
1200	Effects of coral-host bleaching on coral-reliant invertebrates *Stella, Jessica, Geoffrey Jones, Morgan Pratchett, Philip Munday
1215	SymbioGBR: a web-based database of <i>Symbiodinium</i> diversity and host-associations on the Great Barrier Reef *Tonk, Linda, Pim Bongaerts, Eugenia Sampayo, Matheus Althayde, Sophie Dove, Ove Hoegh-Guldberg

Theme 16: Microbes & viruses

1115 – 1800	16B Coral-microbe interactions & disease
Room	MR3
Chair	Greta Aeby
1115	Potential factors affecting patterns of black band disease on a reef in Guam *Aeby, Greta, Laurie Raymundo
1130	Towards an epidemiology of colonial organisms *Kerr, Alexander
1145	Bacterial profiling of white plague disease in multiple coral species *Arif, Chatchanit, Cornelia Roder, Manuel Aranda, Timothy Ravasi, Suchana Chavanich, Ernesto Weil, Christian Voolstra
1200	Microbial drivers in the development of black band disease *Sato, Yui, Martin Glas, Andrew Muirhead, Edmund Ling, Bette Willis, David Edwards, David Bourne
1215	Environmental stress, symbiosis and disease in a coral reef sponge *Luter, Heidi, Steve Whalan, Nicole Webster
1230	Ecological implications of an infectious sponge disease on Caribbean reefs *Gochfeld, Deborah, Cole Easson, Julie Olson, Robert Thacker
1245	Changes in Seafan <i>Monastrea</i> bacteria in the 2010 event *Harvell, Drew, N. Douglas, E. Weil, O. Koren, R. Ley
1300 – 1400	Lunch
1400	Predatory Bacteriovorax give corals a fighting chance against pathogens *Welsh, Rory, Rebecca Vega-Thurber, Stephanie Rosales
1415	Investigation of a coral disease outbreak within Kaneohe Bay, Oahu *Cox, Evelyn, Greta Aeby, Steve Coles, Renee Eismuller, Frank Stanton, Thierry Work
1430	Probing stony coral rapid tissue necrosis with optical oxygen sensors *Wada, Minoru, Gregory Nishihara, Naoko Isomura
1445	Links between deteriorating coral health and sewage pollution of Guam reef flats *Raymundo, Laurie, Kiho Kim, Jamie Redding, Roxanna Miller, Kate Pinkerton, David Baker

Wednesday 11 July Oral presentation program

16B cont.

1500	Identification of human source of acroporid-serratosia and examination of pathogen persistence <i>*Patterson Sutherland, Kathryn, Sameera Shaban, Jason Hamidi, Jessica Joyner, James Porter, Erin Lipp</i>
1515	Invading pathogens following physical damage elicit immune response in corals <i>*Van De Water, Jeroen, Tracy Ainsworth, William Leggat, David Bourne, Madeleine van Oppen, Bette Willis</i>
1530	Coral disease in Oahu's Marine Life Conservation Districts <i>*Walton, Maya, Cynthia Hunter, Greta Aeby</i>
1545	Long term study of extremely slow disease syndromes in the Marshall Islands <i>*Jacobson, Dean</i>
1600 – 1630	Afternoon tea
1630	Long-term patterns in coral disease on the Great Barrier Reef <i>*Willis, Bette, Cathie Page, Jeffrey Maynard, Joleah Lamb, Allison Paley, David Bourne</i>
1645	Coral disease dynamics in the US Pacific Territories and States <i>*Vargas-Angel, Bernardo, Erin Looney, Jason Helyer, Rodney Withall, Oliver Vetter, Jeff Anderson, Cristi Braun</i>
1700	Disrupting pathogenesis: chemical interference of quorum sensing by Australian Alcyonacea <i>*Freckelton, Marnie, Bruce Bowden, Nete BernBom, Lone Hoj</i>
1715	A detailed case study of coral white syndromes <i>*Pollock, F. Joseph, Bette Willis, David Bourne</i>
1730	Empirical metagenomic investigations on the roles of coral viruses and microbes <i>*Vega Thurber, Rebecca</i>
1745	Model system for the molecular mechanisms of coral disease <i>Ushijima, Blake, Patrick Videau, Mareike Sudek, Greta Aeby, *Sean Callahan</i>

Theme 17: The Coral Triangle Initiative

0930 – 1045	17D Managing bleached coral reefs
Room	Sebel Kuranda
Chair	Thamasak Yeemin
0930	Impacts of coral bleaching, recovery trends and management in Thailand <i>*Yeemin, Thamasak, Vipoosit Mantachitra, Sakanan Plathong, Paulwatt Nuclear, Wanlaya Klinthong, Makamas Sutthacheep</i>
0945	Characterisation of oceanic thermal anomalies in the Coral Triangle region <i>*Heron, Scott, Bob Pressey, William Skirving, Tim Burgess, Tyler Christensen, Mark Eakin, Gang Liu, Jianke Li, Ethan Lucas, Britt-Anne Parker, Jacqueline Rauenzahn, Al Strong</i>
1000	Understanding bleaching extent and severity through a networking Indonesia example <i>*Setiasih, Naneng, Joanne Wilson, Jensi Sartin, Rizya Ardiwijaya</i>
1015	Recovery of corals on intertidal reef after a bleaching event <i>*Razalli, Norhanis, Zulfigar Yasin, Juliana Mohamed, Tan Shau Hwai</i>
1030	Effective community based management of reefs faced with coral bleaching <i>Scott, Chad, Devrim Zahir, James True, Wayne Phillips, *Nathan Cook</i>
1035	Managing bleached coral reefs in the Gulf of Thailand <i>*Sutthacheep, Makamas, Sittiporn Pensakun, Pongvithid Chueliang, Pitakphong Suantha, Kazuhiko Sakai, Thamasak Yeemin</i>
1040	First quantitative assessment of coral bleaching impacts on Indonesian Reefs <i>*Yusuf, S., Jamal Jompa</i>

Theme 18: Management & monitoring

1115 – 1800	18B Managing coral reef ecosystems under a changing climate
Room	Hall B
Chair	Roger Beeden
1115	Building social-ecological resilience: the adaptation of coral reef management <i>*Marshall, Paul, Roger Beeden, Chloe Schauble, Peter McGinnity, David Wachenfeld, Nadine Marshall, Rachael Pears, Margie Atkinson, Jeff Maynard</i>

Wednesday 11 July Oral presentation program

18B cont.

1130	Managing multiple use of the Great Barrier Reef: a paradigm shift? <i>*Skeat, Andrew</i>
1145	Opportunities and challenges to manage marine mega-fauna in a changing climate <i>*Fuentes, Mariana</i>
1200	Preparing to manage coral reefs for ocean acidification: lessons from coral bleaching <i>*McLeod, Elizabeth, Andreas Andersson, Kenneth Anthony, Roger Beeden, Joanie Kleypas, Kristy Kroeker, Derek Manzello, Rodney Salm, Heidi Schuttenberg, Jennifer E. Smith, Anne Cohen, Yimnang Golbuu, Alison Green, Trina Leberer, Steven Victor, Eric Wolanski</i>
1215	Conservation objectives under climate change <i>*Ban, Natalie, Bob Pressey, Scarla Weeks</i>
1230	Climate change adaptation planning in practice with an Australian fishery <i>*Pears, Rachel, Eddie Jebreen, Neil Cliffe, Chloe Schauble, Margaret Gooch, Eric Perez, Anthony Roelofs</i>
1245	Using the Vulnerability Assessment Framework to develop a biodiversity strategy for the Great Barrier Reef <i>Read, Mark, *Andrew Simmonds, Jon Day</i>
1300 – 1400	Lunch
1400	Managing coral reefs under climate change: the Florida experience <i>*Causey, Billy</i>
1415	Extreme weather adaptation options are location specific for commercial fisheries <i>*Tobin, Renae, Nadine Marshall, Stephen Sutton, Andrew Tobin, Margaret Gooch</i>
1430	Raine Island; a climate change refuge for turtles and seabirds <i>*Turner, Malcolm, Roger Beeden, Andrew Dunstan, Katrina Goudkamp, Paul Marshall, Neil Mattocks, Richard Quincey</i>
1445	Building ecosystem resilience through spatial planning in Thailand's Andaman Sea <i>*Manopawit, Petch, Niphon Phongsuwan, Philip Dearden, James True, Srisakul Piromwarakorn, Supaporn Buanium</i>

1500	Mapping the resilience of Caribbean coral reefs <i>*Wolff, Nicholas H., Peter J. Mumby</i>
1515	Long term monitoring for climate change impact in Jamaica <i>*Creary, Marcia, Loureene Jones Smith, Sean Green</i>
1530	Climate change action plan for the Florida reef system <i>*Bergh, Chris</i>
1600 – 1630	Afternoon tea
1630	Scoping social limits to climate change adaptation in the Great Barrier Reef, Australia <i>*Evans, Louisa, Pedro Fidelman, Christina Hicks, Charlotte Morgan, Allison Perry, Renae Tobin</i>
1645	Novel genomic tools and the management of coral reefs <i>*Lundgren, Petra, Juan Cristobal Vera, Stephanie Manel, Lesa Peplow, Madeleine van Oppen</i>
1700	Communication challenges for contentious science <i>*Cormick, Craig</i>
1715	Working together today for a healthier reef tomorrow <i>*Vohland, Karen, Megan Sperring, Nathan Walker, Kate Steel, Linda Heap, Hugh Yorkston, Chris Briggs, Paul Marshall, Randall Owens, Liz Wren</i>
1730	Identifying coral 'refugia' in Keppel Bay through bathymetry and habitat assessment <i>*Maple, Chris, Alison Jones</i>
1745	How can the climate change crisis inspire behaviour change? <i>*Goldberg, Jeremy, Alastair Birtles, Nadine Marshall, Lynn Eagle, Peter Case</i>
0930 – 1045	18C Spatially-explicit & multi-disciplinary approaches for coral reef conservation
Room	Hall B
Chair	Serge Andréfouët
0930	A new dimension to 'ridge to reef' mapping in Melanesia <i>Hardcastle, James, Javier Leon, Kenn Mondiai, *Robyn James, Jimmy Kereseka, Gideon Solo, Willie Atu, Richard Hamilton, Theresa Kas, Nate Peterson</i>

Wednesday 11 July Oral presentation program

18C cont.

0945	Towards marine spatial planning for Hervey Bay's coral reefs <i>*Zann, Maria, Stuart Phinn, Chris Roelfsema, Terry Done</i>
1000	Designing Marine Protected Areas using uncertain habitat information <i>*Tulloch-McShane, Vivitskaia, Carissa Klein, Chris Roelfsema, Stacy Jupiter, Hugh Possingham</i>
1015	Integrating reef resilience into marine conservation and spatial planning <i>*Abdulla, Ameer, Edward Game, Sam Purkis, Gwilym Rowlands, David Obura, Anthony Roupheal, Gabriel Grimsditch, Ole Vestergaard, S. Mazzilli, T. Mwangi</i>
1030	The importance of biological information in marine reserve design <i>*Sutcliffe, Patricia, Carissa Klein, C. Roland Pitcher, Hugh Possingham</i>
1035	Spatio-temporal distribution of human use at Ningaloo Reef, Australia <i>*Beckley, Lynnath, Claire Smallwood, Susan Moore, Halina Kobryn</i>
1040	Human coastal use mapping for coral reef priority management sites <i>Levine, Arielle, *Kalisi Mausio, Mimi Diorio, Jamie Carter, Christine Feinholz</i>
1115 – 1300	18E The future of the Coral Sea reefs & sea mounts
Room	Sebel Kuranda
Chair	Eric Clua
1115	Connectivity in the Coral Sea: why should we maintain it? <i>*Clua, Eric</i>
1130	Australia's Coral Sea: how much do we know? <i>*Ceccarelli, Daniela</i>
1145	New light on dark depths: Australia's Coral Sea landscape <i>*Beaman, Robin</i>
1200	Aspects of deep-sea biology in the Coral Sea <i>*Marshall, Justin, Andrew Dunstan, Adrian Flynn, Wen-Sung Chung, Amy Newman, Fanny de Busserolles</i>
1215	A large-scale connectivity study: a Coral Sea spatially explicit ecosystem model <i>*Hutton, T., W. Rochester, E.A. Fulton, S. Condie, M. Savina-Roland, S. Griffiths, I. McLeod, A.D.M. Smith, D.C. Smith</i>

1230	The color of the Coral Sea <i>*Dupouy, Cecile, Rosalie Fuchs, Guillaume Wattelez, Jerome LeFevre, Morgan Mangeas, Hiroshi Murakami, Robert Frouin</i>
1245	Coming, going or gone? Restricted range species on isolated islands <i>*Van Der Meer, Martin, Geoffrey Jones, Jean-Paul Hobbs, Lynne van Herwerden</i>

Theme 19: Human impacts on coral reefs

1400 – 1545	19C Trade in coral reef wildlife
Room	Sebel Kuranda
Chair	Daniel Thornhill
1400	Stock assessment and ecosystem management of ornamental coral reef fisheries <i>Fujita, Rod, *Daniel Thornhill, Cara Cooper</i>
1415	International trade in hard corals: review of management, sustainability and trends <i>Malsch, Kelly, *Elizabeth Wood, Jennifer Miller</i>
1430	Management, assessment and monitoring of the Queensland coral fishery <i>Kung, John, Brigid Kerrigan, *Anthony Roelofs</i>
1445	Managing the coral reef wildlife trade: successes, shortcomings, and challenges <i>*Dee, Laura, Stephanie Horii, Daniel Thornhill</i>
1500	Coral reef wildlife trade: global goods and shared management responsibility <i>*Best, Barbara, Cara Cooper</i>
1515	Implications of monotypic data systems for coral reef trade monitoring <i>*Rhynne, Andrew, Michael Tlusty, Andrew Bruckner, Les Kaufman</i>
1530	Illegal marine wildlife trade field investigation training <i>*Gulko, Dave, Paul Cochran, Wayne Evans, Patricia Ramirez Romero, Ken Goddard, Angelique Brathwaite, Naneng Setiasih, Karenne P.P. Tun, Petchrung Sukpong</i>

Wednesday 11 July Oral presentation program

Theme 20: Restoration of coral reefs

0930 – 1800	20A Restoration of coral reefs
Room	Sebel Bluewater
Chair	James Guest
0930	Closing the circle: rearing corals from eggs to adults for reef rehabilitation <i>*Guest, James</i>
0945	Rearing sexually propagated massive corals for reef rehabilitation: feasibility and cost effectiveness <i>*Toh, Tai Chong, Maria Vanessa Baria, James Rolfe Guest, Loke Ming Chou</i>
1000	Improving cost-effectiveness of coral restoration by optimizing coral rearing time <i>*Lai, Samantha, James Guest, Peter Todd</i>
1015	Coral reef restoration based on sexual coral reproduction <i>*Roik, Anna, Mike Brittsan, Dirk Petersen, Ralph Tollrian</i>
1030	Propagation of sexually-derived coral recruits for active coral reef restoration <i>*Banaszak, Anastazia</i>
1035	<i>Ex situ</i> coral culture may prevent species extinction in Mauritius <i>*Moothien Pillay, Kamla Ruby, Suraj Bacha Gian, Vishwakalyan Bhoyroo, Sarvanen Curpen</i>
1040	Growing corals in line and floating nurseries at Tayrona Park <i>*Pizarro, Valeria, Nuphar Charuvi, Cesar Garcia-Llano</i>
1045 – 1115	Morning tea
1115	Experimental transplantation of corals using sexual reproduction in Manado, Indonesia <i>*Okamoto, Mineo, Kakaskasen A. Roeroe, Minlee Yap, Laurentius Th.X Lalamentik, Syuichi Fujiwara, Kumi Oyamada</i>
1130	Chemically-enhanced settlement of acroporid coral larvae on artificial surfaces <i>*Tebben, Jan, Dianne Tapiolas, Cherie Motti, David Abrego, Nachshon Siboni, Peter Steinberg, Tilmann Harder</i>

1145	Successful mass culture of corals using sexual reproduction technique in Thailand <i>*Chavanich, Suchana, Voranop Viyakarn, Pataporn Kuanui, Se Songploy, Kenji Iwao, Makato Omori</i>
1200	Advancing culture technologies for propagation of coral species for restoration <i>*Vaughan, David, Gretchen Goodbody-Gringley, Ken Leber, Kevan Main, Christopher Page</i>
1215	Marine silviculture: long term monitoring of farmed corals' transplantation <i>*Horszowski-Fridman, Yael, Buki Rinkevich, Ido Izhaki</i>
1230	Coral transplantation success and dynamics of community assembly <i>*Benjamin, Caryl, Helen Yap, Aletta Yñiguez, Caesar Saloma</i>
1245	Restoring Acroporid coral reefs in the US Virgin Islands <i>*Lewis, Kemit-Amon</i>
1300 – 1400	Lunch
1400	Disease dynamics and mitigation in restocked <i>Acropora cervicornis</i> populations <i>*Miller, Margaret, Kathryn Lohr, Esther Peters</i>
1415	Thermal tolerance as a factor in Caribbean <i>Acropora</i> restoration <i>*Bowden-Kerby, Austin, Lisa Carne</i>
1430	Propagation and protection of <i>Acropora cervicornis</i> in Caribbean coral nurseries <i>*Schopmeyer, Stephanie, Diego Lirman</i>
1445	<i>Acropora</i> restoration program in Mexican Marine Protected Areas <i>*Garcia, Miguel, Gabriela Nava, Miguel Román, Marcos Rangel, Claudia LeClercq, Israel López, Maricarmen Garcia, Jorge Gómez, Enrique Gallegos, Rene Cantão</i>
1500	Reef flat recovery following large-scale removal of invasive algae <i>*Conklin, Eric, Dwayne Minton, David Spafford, Manuel Mejia, Kim Hum</i>
1515	Survival and fecundity of <i>Eunicea flexuosa</i> (Cnidaria: Octocorallia) transplants <i>*Espitia, Paola, David Gilliam, Vladimir Kosmynin</i>

Wednesday 11 July Oral presentation program

20A cont.

- 1530 Coral relocation as a mitigation tool for dredging works in northern Jamaica
**Kenny, Ivana, Astrid Kramer, Peter Wilson-Kelly, Timothy Burbury*
- 1545 Evaluating sexual versus asexual propagation methods for breeding sea anemones that host anemonefish
**Scott, Anna, Andrew Carroll, Karina Hall*
- 1600 – 1630 Afternoon tea**
- 1630 Restoration of a vessel grounding site in Gulf of California
**Balart, Eduardo F., Hector Reyes-Bonilla, Luis G. Hernandez-Moreno, Elisa Serviere-Zaragoza, Jesus Angel De Leon-Gonzalez, Rafael Cabral-Tena, Octavio Aburto-Oropeza, Alejandra Mazariegos-Villarreal, Alfredo Ortega-Rubio*
- 1645 An assessment of reef recovery following ship groundings in Florida
**Gilliam, David, Alison Moulding, Brian Walker, Joanna Walczak*
- 1700 Scaling up *Acropora* nurseries in the Caribbean and improving techniques
*Griffin, Sean, Thomas Moore, *Jennifer Moore*
- 1715 Emergency coral response team ameliorates small vessel grounding damage in US Caribbean
*Hahn, Daniel, *Thomas M. Moore, Sean Griffin, Pedro Rodriguez*
- 1730 Review of reef restoration activities in the Caribbean
**Young, Chelsey, Stephanie Schopmeyer, Diego Lirman*
- 1735 Success stories coral transplantation in Indonesia
**Soedharma, Dedi, Suharsono, Beginer Subhan*
- 1740 Bioreeftek as a natural product, new concept for reef rehabilitation
**Ampou, Eghbert Elvan*
- 1745 Fish colonization on Reefballs over nine years (2001-2009) at Rataatok Peninsula in North Sulawesi, Indonesia
**Kojansow, Jerry W., Ari B. Rondonuwu, David C.H. Sompie, Larentius T. X. Lamentik, David Lennon*
- 1750 Device development for coral growth propagation combining mineral-technology and weak-electrochemical method
**Kihara, Kazuyoshi, Yasushi Hosokawa, Hiroki Taniguchi, Yukio Koibuchi, Satoru Yamamoto, Yasufumi Kondo*

- 1755 Reef Dome, a novel model for coral reef rehabilitation
**Abd-Elgawad, Amro, Mohamed Abou-Zaid*

Wednesday 11 July Other activities

Exhibition opening hours

0800-1630

Associated meetings, events and workshops

OPEN

Dhyum the dugong

1300-1345, MR5

Book launch.

OPEN

US Endangered Species Act Review of 82 Coral Species

1300-1345, MR1

Informational meeting.

OPEN

The Coral Triangle

1800-1900, MR1

Book launch for author Juergen Freund and Stella Chiu Freund.

OPEN

Tok Story: sharing lessons learned from the Locally Managed Marine Area Network

1815-2030, MR5

To share lessons learned from the LMMA Network, practical experiences from a range of sites around the world and an opportunity to share with other participants, experts in the field of marine protection areas.

INVITATION ONLY

GASPAR

1300-1345, MR3

Information on the GASPAR program which is dedicated to macro-ecology of coral reef fishes on a world wide scale.

INVITATION ONLY

ISRS Council Meeting

1800-1900, ISRS Committee Room

INVITATION ONLY

Working Group on Coral Reef Resilience for Pacific Island Managers

1800-1900, MR3

Thursday 12 July Program

Mini-Symposia index for oral presentations

Mini-Symposium	Time	Room
3A Evolution, biogeography & taxonomy	0930-1745	Sebel Tully
4A Water motion, abiotic & biotic processes on coral reefs	0930-1600	Sebel Mossman
4C Coral reef response to multiple stresses: organisms to ecosystems	1630-1800	Sebel Mossman
6C Coral physiology & energetics	0930-1300	MR1
7A Genomic approaches to coral reef biology	1500-1800	MR1
8C Coral calcification & accretion	1115-1300	MR5
8D Effects of ocean acidification	0930-1045	MR5
8E Growth records in coral cores	1500-1800	MR5
11B Phase shifts & alternative states on coral reefs	0930-1800	Hall D
12A Life histories & reproduction	0930-1800	Sebel Bluewater
13C Ecological effects of habitat degradation	0930-1800	Hall A
14A Ecological importance of larval dispersal	0930-1045	Hall C
16A Microbial mutualism in coral reef invertebrates	1500-1800	MR3
16B Coral-microbe interactions & disease	0930-1300	MR3
18B Managing coral reef ecosystems under a changing climate	0930-1045	Hall B
18F Does monitoring lead to improved coral reef management?	1115-1745	Hall B
19D Managing fish spawning aggregations	0930-1715	Plenary Hall 2
22A Cultural, political & historical dimensions of coral reef management	1115-1745	Sebel Kuranda
22C Management of coral reefs in regions of high biocultural diversity	0930-1045	Sebel Kuranda
22D Economic valuation & market-based conservation	1115-1730	Hall C

Thursday 12 July Program

Scientific program at a glance

0830	Plenary Hall 2 Helene Marsh Plenary: Conserving coral reef megafauna												
	Plenary Hall 2	Hall A	Hall B	Hall C	Hall D	MR1		MR3	MR5	Sebel Tully	Sebel Kuranda	Sebel Mossman	Sebel Bluewater
0930	19D: Managing fish spawning aggregations	13C: Ecological effects of habitat degradation	18B cont: Managing coral reef ecosystems under a changing climate	14A cont: Ecological importance of larval dispersal	11B: Phase shifts & alternative states on coral reefs	6C cont: Coral physiology & energetics		16B cont: Coral-microbe interactions & disease	8D cont: Effects of ocean acidification	3A: Evolution, biogeography & taxonomy	22C: Management of coral reefs in regions of high biocultural diversity	4A cont: Water motion, abiotic & biotic processes on coral reefs	12A: Life histories & reproduction
1045	Morning tea												
1115	19D	13C	18F: Does monitoring lead to improved coral reef management?	22D: Economic valuation & market-based conservation	11B	6C		16B	8C: Coral calcification & accretion	3A	22A: Cultural, political & historical dimensions of coral reef management	4A	12A
1300	Lunch (Cairns Convention Centre)												
1400	Plenary Hall 2 Madeleine van Oppen Plenary: Can old corals learn new tricks?												
1500	19D	13C	18F	22D	11B	7A: Genomic approaches to coral reef biology		16A: Microbial mutualism in coral reef invertebrates	8E: Growth records in coral cores	3A	22A	4A	12A
1600	Afternoon tea												
1630	19D	13C	18F	22D	11B	7A		16A	8E	3A	22A	4C: Coral reef response to multiple stresses	12A

Create your own daily program for Thursday 12 July

Time	Presenter	Venue	Room Number
0830-0915	Helene Marsh Plenary	Cairns Convention Centre	Plenary Hall 2
0915-0930	Transition		
0930			
0945			
1000			
1015			
1030			
1045-1115	Morning tea		
1115			
1130			
1145			
1200			
1215			
1230			
1245			
1300-1400	Lunch		
1400-1445	Madeleine van Oppen Plenary	Cairns Convention Centre	Plenary Hall 2
1445-1500	Transition		
1515			
1530			
1545			
1600-1630	Afternoon tea		
1630			
1645			
1700			
1715			
1730			
1745			

Thursday 12 July Oral presentation program

* Indicates presenter

Theme 3: Evolution, biogeography & taxonomy

0930 – 1745	3A Evolution, biogeography & taxonomy
Room	Sebel Tully
Chair	John Pandolfi
0930	Coral reefs as drivers of cladogenesis <i>Cowman, Peter, *David Bellwood</i>
0945	Biology and geography determine population connectivity in coral reef fish <i>*Liggins, Libby, Cynthia Riginos, Eric Trembl, Hugh Possingham</i>
1000	The role of peripheral endemism in species diversification <i>*Hodge, Jennifer, Charmaine Read, Lynne van Herwerden, David Bellwood</i>
1015	Dispersal shapes micro and macroevolutionary diversity of reef fishes <i>*Riginos, Cynthia, Eric Trembl</i>
1030	Demographic history of reef fish fauna in a biodiversity hotspot <i>*Delrieu-Trottin, Erwan, Serge Planes</i>
1045 – 1115	Morning tea
1115	Evolution of column morphology in the sea anemone family Aliciidae <i>*Crowther, Andrea</i>
1130	Phenotypic plasticity and speciation in octocorals: Caribbean eastern vs. Pacific <i>*Sanchez, Juan A., Ivan Calixto, Johanna Velasquez, Laura Romero, Jaime Escobar, Carlos Prada</i>
1145	Was <i>Symbiodinium</i> Clade D introduced to the Caribbean? <i>*Pettay, Tye, Drew Wham, Todd LaJeunesse</i>
1200	Phylogeography of <i>Acropora tenuis</i> in north Western Australia <i>*Rosser, Natalie</i>
1215	Central-peripheral hypothesis across reef organisms along the Ryukyu Archipelago <i>*Iguchi, Akira</i>
1230	Caribbean, Brazil, and West Africa: transatlantic evolution of corals revealed by molecular phylogenetics <i>*Lindner, Alberto, Flavia Nunes, Juan Sanchez, Alvaro Migotto</i>

Thursday 12 July Oral presentation program

3A cont.

1245	Recording reefs with Darwinian questions: historical studies on Brazilian Coast *Leal De Oliveira, Almir
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Demographic consequences of Pleistocene climate fluctuations on lagoonal specialist invertebrates *Lemer, Sarah, Serge Planes
1515	Phylogeography and genetic aspects of zooplankton biodiversity in Southeast Asia *Noblezada, Mary Mar, Shuhei Nishida
1530	Phylogeography of the reef algae <i>Sargassum</i> spp. in Southeast Asia *Chan, Sze Wai, P.O. Ang
1545	Phylogeography and morphometrics of the cleaner wrasse <i>Labroides dimidiatus</i> *Sims, Carrie, Cynthia Riginos, Simon Blomberg, Joshua Drew, Thomas Huelsken, Alexandra Grutter
1600 – 1630	Afternoon tea
1630	Patterns in the diversity of coral reef fishes in the western Indian Ocean *Samoilys, Melita, Lorenzo Alvarez-Filip, David Obura
1645	Past and present patterns of gene flow in <i>Caesio cuning</i> *Ackiss, Amanda, Shinta Pardede, Ma. Carmen Ablan-Lagman, Paul Barber, Eric Crandall, Kent Carpenter
1700	Phylogeny of the two ancestral hexacoral orders: Zoantharia and Actiniaria *Fujii, Takuma, James Reimer
1715	Dissection of a 'model' organism: exploring the molecular and morphological diversity of <i>Aiptasia</i> spp. *Grajales, Alejandro, Mercer R. Brügler, Estefania Rodriguez
1730	Does polyp size constrain the morphological diversity of coral colonies? *Barbeitos, Marcos

Theme 4: Biophysical processes

0930 – 1600	4A Water motion, abiotic & biotic processes on coral reefs
Room	Sebel Mossman
Chair	James Hench
0930	Temperature on Red Sea reefs at two scales: biological consequences *Pineda, Jesús, Jonathan Blythe, Kristen Davis, José da Silva, Adam Reitzel, Victoria Starczak, Ann Tarrant
0945	Surf's up! Waves modulate foraging and feeding in predatory reef fishes *Roche, Dominique G., Cayne Layton, Sandra A. Binning
1000	Heat budget for Florida reefs: reef-scale thermal stress via satellite *Gramer, Lewis J., Arthur J. Mariano, James C. Hendee
1015	Impacts of natural and anthropogenic physical disturbance on coral demographics Viehman, Shay, Sean Griffin, Tom Moore, *Greg Piniak
1030	Wave-driven flow over a Red Sea platform reef *Lentz, Steven, James Churchill, Kristen Davis, Thomas Farrar
1045 – 1115	Morning tea
1115	Interaction of hydrodynamics and corallivory control growth of branching <i>Acropora</i> *Lenihan, Hunter, James Hench, Alice Alldredge
1130	Caribbean hybrid <i>Acropora prolifera</i> viability restricted to shallow reef zones *Brewer, Robert, Tyler Smith, Elizabeth Gladfelter, Nicole Fogarty
1145	Effects of water flow and prey behavior on coral feeding *Heidelberg, Karla, Jennifer Purcell, Kenneth Sebens
1200	Water flow, nutrition, and limits to growth in reef corals *Sebens, Kenneth
1215	Exploring the physical basis for thermal microclimates on coral reefs *Davis, Kristen, Steven Lentz, Jesús Pineda, J. Tom Farrar, Victoria Starczak, James Churchill
1230	Impacts of Cyclone Hamish at One Tree Reef Woolsey, Erika, *Scott Bainbridge, Michael Kingsford, Maria Byrne

Thursday 12 July Oral presentation program

4A cont.

1245	Dimethylsulfide and the coral reef ecosystem <i>*Swan, Hilton, Graham Jones, Elisabeth Deschaseaux</i>
1250	A cost-effective marine current meter <i>*Marchant, Ross, Fernando Andutta, Severine Chookrun, Peter Ridd, Thomas Stevens, James Whinney</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Annual measurement of Solar UVB at a reef site using a polyphenylene oxide dosimeter <i>Schouten, Peter, Nathan Downs, *Alfio Parisi</i>
1515	Parameters that influence coral biodiversity and accretion on high-latitude east African reefs <i>*Schleyer, Michael, Ashley Grimmer</i>
1530	Monsoon variability of optical properties in a Malaysian coral-reef ecosystem <i>*Mizubayashi, Keiko, Victor Shinichi Kuwahara, Thirukanthan Chandra Segaran, Zaleha binti Kassim, Mohd Effendy Abd Wahid, Mohamed Kushairi bin Mohamed Rajuddin, Tatsuki Toda</i>
1545	The effects of bioturbation by stingrays at Ningaloo Reef, Western Australia <i>*O'Shea, Owen, Mark Meekan, Mike van Keulen, Michele Thums</i>
1630 – 1800	4C Coral reef response to multiple stresses: organisms to ecosystems
Room	Sebel Mossman
Chair	Hajime Kayanne
1630	A coral-reef ecosystem model: short-term responses against the multiple stresses <i>*Nakamura, Takashi, Atsushi Watanabe, Kazuo Nadaoka, Yoshikatsu Nakano, Shoji Yamamoto, Takahiro Yamamoto, Toshihiro Miyajima</i>
1645	Molecular diagnostics of coral exposed to oil and dispersant <i>*Edge, Sara, Joshua Voss, Kate Semon, Rob Ruzicka, Gretchen Goodbody-Gringley</i>

1700	Community shift from stony coral to soft coral in acidified water <i>*Inoue, Shihori, Hajime Kayanne, Shoji Yamamoto, Haruko Kurihara</i>
1715	Declining growth of corals at Lord Howe Island <i>*Anderson, Kristen, Morgan Pratchett, Andrew Baird</i>
1730	The effect of thermal stress anomalies on the diversity of <i>Symbiodinium</i> communities in Oahu, Hawai'i <i>Yost, D.M., X. Pochon, *M. Stat, R.D.Gates</i>
1745	Energy needed by corals for survival <i>*Stambler, Noga</i>
1750	Coral mucus: a potential bioindicator of reef health? <i>*Ong, Joyce J.L., Tsai Min Sin</i>
1755	Increased reactive oxygen species and antioxidant enzyme activities with environmental stresses <i>*Higuchi, Tomihiko, Yoshimi Suzuki, Hiroyuki Fujimura</i>

Theme 6: Physiology & functional biology

0930 – 1300	6C Coral physiology & energetics
Room	MR1
Chair	Christine Ferrier-Pagès
0930	Autotrophic nitrogen and carbon assimilation among diverse coral taxa <i>*Baker, David, Nancy Knowlton, Marilyn Fogel</i>
0945	Impact of environmental changes on the nutritional function of cnidaria-dinoflagellate symbiosis <i>*Pernice, Mathieu, Anders Meibom, Christophe Kopp, Isabelle Domart-Coulon, Ove Hoegh-Guldberg, Sophie Dove</i>
1000	Growth and regeneration trade-off in <i>Acropora muricata</i> <i>*Bruggemann, J. Henrich, Vianney Denis, Madeleine Goutx, Mireille M.M. Guillaume</i>
1015	Corals as solar modulators in ambient sunlight and following coral bleaching <i>*Salih, Anya, David Geny, Francesco Cutrale, Michelle Digman, Sandra Diamond, Andrew Carrol, Steven Dalton, Anthony Larkum, Enrico Gratton, S. Gudge, I. Kerr</i>

Thursday 12 July Oral presentation program

6C cont.

1030	Influence of seawater temperature increment in Ubhur Creek corals, Jeddah *Al-Sofyani, Abdulmohsin, Yhya Floos
1035	Impact of light microgradients on coral photobiology and energy efficiency *Wangpraseurt, Daniel, Jim Franklin, Anthony Larkum, Michael Kühl
1040	A survey into physiological differences of <i>Symbiodinium</i> *Gong, Xianzhe, Cornelia Roder, Manuel Aranda, Christian Voolstra
1045 – 1115	Morning tea
1115	Acquisition and allocation of carbon to lipid classes of bleached and non-bleached Hawaiian corals *Baumann, Justin, Andréa Grottoli, Stephen Levas, Elisabeth Calhoon, Joseph Williams, Yohei Matsui, Adam Hughes
1130	DOC fluxes in healthy and bleached <i>Montastraea faveolata</i> , <i>Porites astreiodes</i> , and <i>Porites divaricata</i> corals *Levas, Stephen, Andrea Grottoli, Mark Warner, Verena Schoepf, Justin Baumann, Matthew Aschaffenburg, Yohei Matsui, Amy Barrett, James Bauer
1145	Nutrient assimilation for coral growth and the synergetic effect of elevated seawater temperature *Tanaka, Yasuaki, Akira Iguchi, Mayuri Inoue, Chiharu Mori, Kazuhiko Sakai, Takashi Nakamura, Atsushi Suzuki, Hodaka Kawahata
1200	Linking parental energetics and larval fitness in Caribbean coral *Hartmann, Aaron, Kristen Marhaver, Mark Vermeij
1215	Cellular basis of thermal tolerance in Lord Howe Island corals *Pontasch, Stefanie, Paul Fisher, Shaun Wilkinson, Sophie Dove, Ove Hoegh-Guldberg, Bill Leggat, Simon Davy
1230	Variation in biological and functional attributes among perforate and non-perforate corals *Yost, D.M., E. Sogin, L.H. Wang, T.Y. Fan, C.S. Chen, R.W. Lee, R.D. Gates
1245	Using metabolomics to investigate implications of diversity in coral- <i>Symbiodinium</i> unions *Sogin, Emilia, Yung-Husan Chen, Li-Hsueh Wang, Tung-Yung Fan, Chii-Shiarng Chen, David Horgen, Ruth Gates

1250	Broad scale patterns of metabolism amongst reef building corals *Santa Rosa, Lindzai T., Tracy Lawson, David J. Smith, David J. Suggett
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Theme 7: Genomic approaches to coral reef biology

1500 – 1800	7A Genomic approaches to coral reef biology
Room	MR1
Chair	Christian Voolstra
1500	Coral reef genomics in the Red Sea Aranda, Manuel, Adrian Carr, Lucas Moitinho-Silva, Till Bayer, Taewoo Ryu, Didier Zoccola, Ute Hentschel, Gos Micklem, Timothy Ravasi, *Christian Voolstra
1515	The early transcriptional immune response of <i>Acropora millepora</i> *Miller, David, Yvonne Weiss, Sylvain Forêt, David Hayward, Eldon Ball
1530	Population genomics of threatened Caribbean corals *Baums, Iliana, Nicholas Polato
1545	Genome-wide comparative analysis of <i>Acropora</i> corals *Shinzato, Chuya, Sylvain Forêt, Sutada Mungpakdee, David Miller, Nori Satoh
1600 – 1630	Afternoon tea
1630	Transcriptomic response of <i>Acropora millepora</i> juveniles to ocean acidification *Moya, Aurelie, Lotte Huisman, Eldon E. Ball, David C. Hayward, Chia-Miin Chua, Hyun-Nyun Woo, Sylvain Forêt, David J. Miller
1645	Gene regulation in coral larvae exposed to metamorphic/settlement cues *Siboni, Nachshon, David Abrego, Francois Seneca, Cherie Motti, Nikolaos Andreakis, Jan Tebben, Tilmann Harder, Linda Blackall
1700	Genetic and environmental sources of physiological and transcriptomic plasticity *Bay, Line, Aurelie Guerescheau, Ray Berkelmans, Nikolaus Andreakis, Petra Souter, Madeleine van Oppen
1715	The molecular basis of settlement and metamorphosis in <i>Acropora millepora</i> *Ball, Eldon, David Hayward, Lauretta Grasso, Sylvain Forêt, Rosalind Attenborough, David Miller

Thursday 12 July Oral presentation program

7A cont.

1730	Transcriptomic signature in soft coral exposed to abiotic stresses *Woo, Seonock, Sungjin Hwang, Jun-Im Song, Seungshic Yum
1735	Differential metabolisms in <i>Terpios hoshinota</i> by comparative transcriptomics approach *Tang, Sen-Lin, Cheng-Yu Chen, Ching-Hung Tseng, Jia-Ho Hsu, Hsin-Ju Chen
1740	Integrative approaches shed light on corals and sponges as emerging model organisms. *Ryu, Taewoo, Loqmane Seridi, Emily Giles, Lucas Moitinho-Silva, Ute Hentschel, Christian Voolstra, Timothy Ravasi
1745	Location and <i>Symbiodinium</i> type drive gene expression during heat stress in <i>Acropora hyacinthus</i> *Barshis, Daniel, Jason Ladner, Thomas Oliver, Francois Seneca, Stephen Palumbi
1750	The transcriptome of dinoflagellate symbionts from reef-building corals *Bayer, Till, Manuel Aranda, Adrian Carr, Yi Jin Liew, Timothy Ravasi, Gos Micklem, Christian R. Voolstra
1755	Genetic acclimation to increasing sea surface temperatures in a coral reef fish *Veilleux, Heather, Lynne van Herwerden, Philip Munday, Bill Leggat

Theme 8: Ocean acidification

1115 – 1300 8C Coral calcification & accretion

Room	MR5
Chair	Isla Kuffner
1115	Calcification over space and time in the subtropical Florida Keys, USA *Kuffner, Isla, T. Don Hickey
1130	Feeding modulates the impact of ocean acidification on coral calcification *Drenkard, Liz, Anne Cohen, Daniel McCorkle, Samantha de Putron, Victoria Starczak, Alice Zicht
1145	Sensitivity of coral reef calcification to environmental conditions *Bernstein, Whitney, Konrad Hughen, Chris Langdon, Daniel McCorkle, Steve Lentz

1200	Nutrient modulation of the coral calcification response to a natural gradient in ocean acidification *Cohen, Anne, Russell Brainard, Charles Young, Neal Cantin, Richard Feely, Katie Shamberger, Elizabeth McLeod, Daniel McCorkle
1215	Seasonal trends in seawater carbonate chemistry and calcification in Bermuda *Andersson, Andreas J., Nicholas R. Bates, Samantha de Putron, Andrew Collins, Tim Noyes
1230	Modelling the effect of ocean acidification on coral calcification *Hohn, Sonke, Agostino Merico
1235	A spatial-temporal analysis of coral calcification rates in Bermuda *Venti, Alyson, Andreas Andersson, Chris Langdon, David Kadko
1240	The growth rate of <i>Porites</i> corals from Malaysian waters *Nilamani, Nithiyaa, Zulfigar Yasin, Aileen Tan Shau-Hwai
1245	Effects of ocean acidification on coral calcification: a meta-analysis *Chan, Neil, Sean Connolly
1250	Coral calcification and CO ₂ : <i>in situ</i> and <i>ex situ</i> results de Putron, Samantha, Andreas Andersson, *Andrew Collins, Nicholas Bates

0930 – 1045 8D Effects of ocean acidification

Room	MR5
Chair	Chris Langdon
0930	Quantifying ecosystem calcification responses to elevated CO ₂ on coral reefs *Shamberger, Kathryn, Anne Cohen, Daniel McCorkle, Steven Lentz, Richard Feely, Chris Sabine, Elizabeth McLeod
0945	Ocean acidification influence on the growth of <i>Porites panamensis</i> in the Gulf of California, México *Cabral-Tena, Rafael, Eduardo Balart, Héctor Reyes-Bonilla, Salvador Lluch-Cota, David Paz-Garcia
1000	Development of Ocean Acidification Flow-Thru Experimental Raceway Units (OAFTERU) Crosby, Michael, *Emily Hall, David Vaughan

Thursday 12 July Oral presentation program

8D cont.

1015	Red macroalgae, potential losers under doomsday conditions despite eutrophication <i>*Bender, Dorothea, Guillermo Diaz-Pulido, Sophie Dove</i>
1030	Light, flow, and ocean acidification: interactive effects on Cnidarian growth <i>*Margolin, Carolyn</i>
1500 – 1755	8E Growth records in coral cores
Room	MR5
Chair	Timothy Cooper
1500	Surviving coral bleaching events: <i>Porites</i> growth signatures <i>*Cantin, Neal, Janice Lough</i>
1515	How do historical background conditions affect the coral bleaching threshold? <i>*Carilli, Jessica, Simon Donner, John Pandolfi, Aaron Hartmann</i>
1530	320 years of <i>Porites lutea</i> coral growth patterns explained <i>*Scheffers, Sander, Renaud Joannes-Boyau, Anja Scheffers, Dominik Brill, Helmut Brueckner, Dieter Kelletat, Paul Kelly, Lea Taylor, Suchana Chavanich</i>
1545	Growth and luminescent banding in massive <i>Porites</i> from the Thai-Malay Peninsula <i>*Tanzil, Jani, Barbara Brown, Peter Todd, Jaap Kaandorp</i>
1600 – 1630	Afternoon tea
1630	A 1000-year record of coral calcification (<i>Goniopora</i>) from the GBR <i>*Pandolfi, John, Maria Gomez-Cabrera, Brent King, Shanee Stopnitzky, Marie Mauffrey, George Roff</i>
1645	Reef-scale temperature and growth relationships in the southwestern Indian Ocean <i>*Zinke, Jens, Miriam Pfeiffer, Craig A. Grove, Reshad Jhangeer-Khan, Emily Hardman, Bemahafaly Randriamanantsoa</i>
1700	Dating reefs using amino acid racemization of coral intra-crystalline protein <i>*Tomiak, Peter, Erica Hendy, Kenneth Johnson, Morten Andersen, William Thompson, Kirsty Penkman</i>

1715	Assessing the dominant controls on coral growth: implications for reef responses to climate change <i>*Bosshart, Sara, Anne Cohen, Delia Oppo, Stephanie Henson</i>
1730	Reduced trend of annual growth of Indonesian <i>Porites</i> over 20 years <i>*Soemorumekso, Suharsono, Sri Yudawati Cahyarini</i>
1735	Physical conditions influence coral extension rates in Hong Kong <i>*Yang, Teng Teng, Nathalie Goodkin</i>
1740	Coral records of 20th century central tropical Pacific SST and salinity <i>*Nurhati, Intan Suci, Kim Cobb, Emanuele DiLorenzo</i>
1745	Are skeletal growth parameters predictors of coral thermal stress tolerance? <i>*Hernández-Pacheco, Raisa, Anne Cohen, Edwin Hernández-Delgado</i>
1750	Variability of the Leeuwin Current over the past 250 Years <i>*Joannes-Boyau, Renaud, Sander Scheffers, Quan Hua, Malcolm McCulloch, Jian-Xin Zhao</i>
Theme 11: Ecological dynamics, resilience & phase shifts	
0930 – 1800	11B Phase shifts & alternative states on coral reefs
Room	Hall D
Chair	Albert Norström
0930	Manipulating feedbacks in degraded coral reef states <i>*Nyström, Magnus, Albert V. Norström, Thorsten Blenckner, Johan S. Eklöf, Carl Folke, Henrik Österblom, Robert S. Steneck, Matilda Thyresson, Maricela de la Torre Castro, Max Troell</i>
0945	Regime shifts on Hawaiian coral reefs: from coral to sediment <i>*Field, Michael, Curt Storlazzi, Ann Gibbs, Susan Cochran, Joshua Logan</i>
1000	Factors driving the loss of <i>Montastraea</i> -dominated communities on western Atlantic reefs <i>*Bruckner, Andrew</i>
1015	Global disparity in the resilience of coral reefs <i>*Roff, George, Peter Mumby</i>
1030	Long-term dynamics of a tropical eastern Pacific coral reef <i>*Zapata, Fernando A., Juliana Jaramillo-González, Alberto Rodríguez-Ramírez, Carlos Muñoz, Raúl Navas-Camacho</i>

Thursday 12 July Oral presentation program

11B cont.

1045 – 1115	Morning tea
1115	Navigating towards better reef futures *Graham, Nick, David Bellwood, Joshua Cinner, Terry Hughes, Albert Norström, Magnus Nyström
1130	State changes in a coral reef: herbivory, connectivity and recruitment *Schmitt, Russell, Sally Holbrook, Andrew Brooks, Thomas Adam
1145	Reef community variability among alternative states in the inner Seychelles *Chong Seng, Karen, David Bellwood, Nick Graham, Thomas Mannering, Morgan Pratchett, Jan Robinson
1200	Phase shifts and sediment pulses on coral reefs *Goatley, Christopher, David Bellwood
1215	Modelling and testing feedbacks to predict shifts in seagrass ecosystems *Maxwell, Paul, Rod Connolly, Kylie Pitt, Andrew Olds
1230	From hard to soft: the current state of reefs in the Florida Keys *Ruzicka, Rob, Kathleen Semon, Mike Colella, Vanessa Brinkhuis, Jim Kidney, Jen Morrison, Jim Porter, Mary Christman
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Positive feedbacks produce alternate community states: empirical and simulation-based evidence *Muthukrishnan, Ranjan, Jamie Lloyd-Smith, Peggy Fong
1515	Invasive corallimorph associated with shipwreck at Palmyra Atoll Wildlife Refuge *Meyer, Amanda, Thierry Work, Greta Abey, Eric Conklin, Susan White
1530	Decadal-scale losses in reef complexity and implications for ecosystem services *Lee, Ai Chin, Tsai Min Sin
1545	Specialization affects response of a reef fish community to bleaching *Smith, Jennifer, Geoffrey Jones
1600 – 1630	Afternoon tea

1630	Benthic shift in a Solomon Islands' lagoon: corals to cyanobacteria Grinham, Alistair, Simon Albert, Badin Gibbes, *Matthew Dunbabin, Mark Skinner, Brad Moore
1645	Macroalgal shifts on Lakshadweep atolls: herbivore size and environmental factors *Cernohorsky, Nicole, Idrees Babu
1700	Markov chain analysis of community dynamics in a degraded reef *Punongbayan, Andalus, Helen Yap, Aletta Yniguez
1715	Herbivory as a driving force in algal-coral phase shift event *Yeung, Chung Wing, Put O. Jr Ang
1730	A multi-model approach to understanding benthic community dynamics *Brito, Marlene, Dylan McNamara, Stuart Sandin
1745	Baselines and degradation of central Pacific benthic reef communities *Smith, Jennifer

Theme 12: Life histories & reproduction

0930 – 1800	12A Life histories & reproduction
Room	Sebel Bluewater
Chair	Andrew Baird
0930	Environmental variables associated with coral spawning synchrony *Baird, Andrew, Jeffrey Maynard, Alasdair Edwards, James Guest, Jim Acker, Scott Heron
0945	The solitary coral <i>Fungia fungites</i> is a gonochoric brooder *Loya, Yossi, Munasik, Mamiko Hirose, Kazuhiko Sakai
1000	Asynchronous and multispecific spawning patterns among Maldivian equatorial reef corals *Harrison, Peter, Abdul Azeez Abdul Hakeem
1015	Coral embryos in a climate change hotspot *Woolsey, Erika, Maria Byrne, Andrew Baird
1030	Abundance patterns for juvenile versus adult corals on Australia's GBR *Trapon, Melanie, Morgan Pratchett, Andrew Hoey
1045 – 1115	Morning tea

Thursday 12 July Oral presentation program

12A cont.

1115	Impacts of sedimentation on coral settlement, Pelekane Bay, Hawai'i *Stender, Yuko, Paul Jokiel, Ku'ulei Rodgers
1130	Coral recruitment at Gorgona Island, tropical eastern Pacific *Jaramillo, Juliana, Fernando Zapata
1145	Early gametogenesis in scleractinian coral, <i>Euphyllia ancora</i> *Shikina, Shinya, Ching-Fong Chang
1200	Biological clock driven circadian transcription in <i>Acropora millepora</i> Brady, Aisling, Kevin Snyder, *Peter Vize
1215	Exploring <i>Acropora</i> sperm proteins that contribute to species-specific fertilization *Morita, Masaya
1230	Aspects of the early life history of <i>Montipora capitata</i> in Hawai'i Kolinski, Steven, *Rachel Fitzhardinge
1245	The larval development of <i>Acropora robusta</i> Huang, Jieying, Hui Huang, *Yuyang Zhang, Jianhui Yang
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Coral dynamics in space and time: modeling coral populations in Hawai'i *Donahue, Megan, Megan Ross, Paul Jokiel
1515	A physiology-based life-history classification system for reef corals *Hoogenboom, Mia, Sean Connolly
1530	The impact of climate change on the reproductive success of different coral species *Schutter, Miriam, Haruko Kurihara, Yoko Nozawa
1545	Environmental controls of fecundity of three Indo-Pacific coral species *Carey, Gemma, Tsai Min Sin
1600 – 1630	Afternoon tea
1630	Synchronous spawning of scleractinian corals in the Red Sea *Bouwmeester, Jessica, Michael Berumen, Andrew Baird
1645	The molecular basis of sex in corals *Sprungala, Susanne, Sylvain Forêt, Andrew Baird, David J. Miller

1700	Population dynamics of a tropical coral in Sydney Harbour *Madsen, Alisha M., Joshua S. Madin, Chun Hong Tan, Andrew H. Baird
1715	Coral reproduction in Moorea reefs: timing, reproductive output and survivorship *Hedouin, Laetitia, Rosanne Pilon, Antoine Puisay
1730	Telomere lengths of different developmental stages of a colonial coral *Tsuta, Hiroki, Michio Hidaka
1745	Demography of long-lived octocorals; survival and local extinction *Santangelo, Giovanni, Roberta Cupido, Silvia Cocito, Lorenzo Bramanti, Cristina Priori, Mimmo Iannelli

Theme 13: Fish & fisheries

0930 – 1800	13C Ecological effects of habitat degradation
Room	Hall A
Chair	Andrew Hoey
0930	Suppression of herbivory by macroalgal density *Hoey, Andrew, David Bellwood
0945	Recovery of fish communities following habitat degradation *Coker, Darren, Nicholas Graham, Morgan Pratchett
1000	Projected changes in coral assemblages and effects on reef fishes *Pratchett, Morgan
1015	High gene flow reduces vulnerability to habitat degradation for a specialised coral-feeding butterflyfish *Lawton, Rebecca, Vanessa Messmer, Morgan Pratchett, Line Bay
1030	Degraded coral disrupt innate antipredator responses of fish *Lönstedt, Oona, Mark McCormick, Douglas Chivers
1045 – 1115	Morning tea
1115	Specializing on vulnerable habitat: <i>Acropora</i> selectivity among coral-associated damselfishes *Bonin, Mary, Glenn Almany, Geoffrey Jones
1130	Disturbances on the Great Barrier Reef: how do reductions in habitat complexity affect reef fishes? *Emslie, Mike, Aaron MacNeil, Alistair Cheal, Kate Osborne

Thursday 12 July Oral presentation program

13C cont.

1145	Interacting effects of habitat degradation and competition on coral-reef damselfishes <i>*Bostrom Einarsson, Lisa, Mary C. Bonin, Philip L. Munday, Geoffrey P. Jones</i>
1200	Relative importance of various habitat characteristics in determining the structure of reef fish communities <i>*Komyakova, Valeriya, Philip L. Munday, Geoffrey P. Jones</i>
1215	Changing feeding preferences of butterflyfishes following coral bleaching <i>*Pisapia, Chiara, Morgan Pratchett</i>
1230	Which environmental factors more importantly affect reef fish community structure? <i>*Suzuki, Shohei, Takashi Kawai, Yuki Miyaoka, Takashi Sakamaki</i>
1245	Recent regional changes in reef fish abundance on the Great Barrier Reef <i>*Sweatman, Hugh, Murray Logan, Alistair Cheal, Mike Emslie, Ian Miller</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Coping with climate change across generations <i>*Donelson, Jennifer, Philip Munday, Mark McCormick</i>
1515	Habitat biodiversity as a determinant of fish community structure on coral reefs <i>*Messmer, Vanessa, Geoffrey Jones, Philip Munday, Sally Holbrook, Russell Schmitt, Andrew Brooks</i>
1530	Responses of reef fish communities to large-scale habitat perturbations <i>*Brooks, Andrew, Russell Schmitt, Sally Holbrook, Thomas Adam, Peter Edmunds, Libe Washburn</i>
1545	Modeling the impact of decreasing coral reef complexity on fish distributions <i>*Caldow, Chris, Simon Pittman, Bryan Costa</i>
1600 – 1630	Afternoon tea
1630	Long term demographics of coral-reef damselfishes and associated coral habitat <i>*Booth, David, Giglia Beretta</i>

1645	Future trajectories of architectural complexity and biodiversity on Caribbean reefs <i>*Bozec, Yves-Marie, Peter J. Mumby</i>
1700	Do no-take marine reserves work on highly disturbed coral reefs? <i>*Williamson, David, Daniela Ceccarelli, Richard Evans, Garry Russ</i>
1715	Beyond coral species: specific coral preferences of reef fishes <i>*Gardiner, Naomi, Morgan Pratchett</i>
1730	Sedimentation impacts coral use by juvenile parrotfishes, west Hawai'i Island <i>*DeMartini, Edward, Paul Jokiel, James Beets</i>
1745	Specialisation by a corallivorous reef fish: consequences on changing reefs <i>*Brooker, Rohan M., Philip L. Munday, Geoffrey P. Jones</i>
1750	The effect of coral morphology on shelter selection by reef fishes <i>*Kerry, James, David Bellwood</i>

Theme 14: Larval ecology, recruitment & connectivity

0930 – 1045	14A The ecological importance of larval dispersal
Room	Hall C
Chair	Robert Warner
0930	Picking the perfect birthday: reproductive biology and connectivity in octocorals <i>*Lasker, Howard R., Claire B. Paris, Andrew Kough, Isabel Porto, Laurent M. Cherubin</i>
0945	Successful invasion of <i>Turbastraea micranthus</i> into the western Atlantic <i>*Sammarco, Paul W., Scott Porter, Melissa Genazzio, James Sinclair</i>
1000	Bio-physical modeling of <i>Siganus spinus</i> recruitment around Guam <i>*Halford, Andrew, Jennifer McIlwain, Mark Priest, Eric Wolanski</i>
1015	Life-history traits of endemic reef fishes of the Gambier Islands <i>*Vigliola, Laurent, Maylis Labonne, Fany Sardenne, Michel Kulbicki</i>
1030	The behavioral, population, and evolutionary consequences of larval history <i>*Warner, Robert, Peter Buston, Geoffrey Jones</i>

Thursday 12 July Oral presentation program

Theme 16: Microbes & viruses

1500 – 1800	16A Microbial mutualism in coral reef invertebrates
Room	MR3
Chair	Tracy Ainsworth
1500	Photosynthetic symbiosis drives bacterial associations in Great Barrier Reef invertebrates <i>*Bourne, David, Paul Dennis, Sven Uthicke, Rochelle Soo, Gene Tyson, Nicole Webster</i>
1515	Scent of a partner: responses of <i>Symbiodinium</i> to coral cues <i>*Abrego, David, Cherie Motti, Nachshon Siboni, Dianne Tapiolas, Jan Tebben, Tilmann Harder</i>
1530	Worldwide comparison of microbial diversity patterns in five low microbial abundance (LMA) sponges <i>*Giles, Emily, Lucas Moitinho-Silva, Janine Kamke, Michael Taylor, Ute Hentschel, Christian Voolstra, Susanne Schmitt, Timothy Ravasi</i>
1545	Comparative metatranscriptomics of Red Sea sponge symbionts <i>*Moitinho-Silva, Lucas, Taewoo Ryu, Feras Lafi, Emily Giles, Christian R. Voolstra, Timothy Ravasi, Ute Hentschel</i>
1600 – 1630	Afternoon tea
1630	Microbial assemblages of <i>Acropora palmata</i> during bleaching and disease events <i>*Kemp, Dustin, Meredith Meyers, Jessica Joyner, John Wares, Erin Lipp, James Porter</i>
1645	The microbiome of <i>Galaxea fascicularis</i> gastric cavity and its importance for coral health <i>*Agostini, Sylvain, Yoshimi Suzuki, Tomihiko Higuchi, David Bourne, Beatriz Casareto, Koichi Yoshinaga, Yoshikatsu Nakano, Hiroyuki Fujimura</i>
1700	The abundance and diversity of viruses in soft coral tissue <i>*Mahmoud, Huda, Fatin Al-Hamwi</i>
1715	Corals form specific associations with diazotrophic bacteria <i>*Lema, Kimberley, Bette Willis, David Bourne</i>
1730	Associated bacterial communities of <i>Seriatopora hystrix</i> across ecotypes and environments <i>*Pantos, Olga, Pim Bongaerts, Ove Hoegh-Guldberg</i>

1745	Microbial consortia of temperate gorgonian corals <i>*Holm, Johanna, Karla Heidelberg</i>
0930 – 1300	16B Coral-microbe interactions & disease
Room	MR3
Chair	Greta Aeby
0930	Using coral disease as a monitoring tool for reef-based recreation <i>*Lamb, Joleah, Bette Willis</i>
0945	Ciliate and bacterial communities associated with white syndrome and brown band disease in reef building corals <i>*Sweet, Michael, John Bythell</i>
1000	Viruses as putative white plague type II pathogens <i>*Soffer, Nitzan, Marilyn Brandt, Tyler Smith, Adrienne Correa, Rebecca Vega-Thurber</i>
1015	Primary and secondary bacterial pathogens involved with <i>Montipora</i> white syndrome <i>*Ushijima, Blake, Ashley Smith, Greta Aeby, Sean Callahan</i>
1030	Coral diseases in the central Republic of Maldives <i>*Montano, Simone, Davide Seveso, Giovanni Strona, Roberto Arrigoni, Paolo Galli</i>
1035	Shift of microbial communities between healthy and bleaching <i>Acropora solitaryensis</i> <i>*Chen, Chang, Zhu-Hong Liu, Lei Gao, Chun-Hua Ren, Chao-Qun Hu, Yu-Yang Zhang</i>
1045 – 1115	Morning tea
1115	Viruses as potential destabilizers of the coral-algal symbiosis <i>Correa, Adrienne, *Rebecca Vega-Thurber</i>
1130	Transcriptomic landscape of the coral holobiont in white plague disease <i>*Daniels, Camille, Cornelia Roder, Chatchanit Roder, Christian Voolstra</i>
1145	Metagenomic characterization of microbial communities associated with white band disease type I <i>*Nunes, Flavia L.D., Carmel Norman, Steven V. Vollmer</i>
1200	Microbial activity and dissolved organic matter in Sesoko reef, Okinawa <i>*Mohamed Fairoz, Mohamed Farook, Beatriz E. Casareto, Yoshimi Suzuki</i>

Thursday 12 July Oral presentation program

16B cont.

1215	Diseases affecting crustose coralline algae in Curacao *Quere, Gaelle, Roberts S. Steneck, Maggy Nugues
1230	Are coral diseases contagious: testing a 30-year old assumption? *Muller, Erinn, Robert van Woosik
1245	<i>Acropora cervicornis</i> symbionts and disease investigated by next generation sequencing *Walton, Charles, David Gilliam, Jose Lopez
1250	Coral health of mushroom corals in Pagerungan, Sepanjang and Kangean Island, Indonesia *Subhan, Beginer, Fadhillah Rahmawati, Dondy Arafat, Denny Khaerudi, Adityo Bramandito
1255	Dynamics of a black band disease outbreak in Palau *Ridep-Morris, Alma, Bette Willis

Theme 18: Management & monitoring

0930 – 1045	18B Managing coral reef ecosystems under a changing climate
Room	Hall B
Chair	Roger Beeden
0930	Integrated reef health assessments enable responses to climate change impacts *Beeden, Roger, Jen Dryden, Katrina Goudkamp, Cherie Malone, Paul Marshall, Fiona Merida, Malcolm Turner, David Wachenfeld
0945	Evolving coral reef management under climate change: the GBR experience *McGinnity, Peter, Paul Marshall, David Wachenfeld
1000	Interactions between stressors and climate change in coral ecosystem management *Brown, Christopher, Megan Saunders, Hugh Possingham, Anthony Richardson
1015	Building the resilience of the world's largest coral reef ecosystem *Wachenfeld, David
1030	Working together to achieve change *Owens, Randall, Ryan Donnelly, Margie Atkinson

1035	Storms, recovery, and protection: long term monitoring tells the story Holmes, Katherine E., Jasmine Duadak, Fraser A. Januchowski-Hartley, Maunoa Karo, Tau Morove, Helen M. Perks, *George Samson, Elliot Tovaboda, Ryan J. Walker, Jane Wia
1040	Dive tourism professionals as climate change early warning and communications *MacPherson, Rick, Naneng Setiasih, Kenneth Johnson, Alan Strong, Ramon de Leon, Ricardo Gomez
1115 – 1800	18F Does monitoring lead to improved coral reef management?
Room	Hall B
Chair	Jerker Tamelander
1115	IUCN Reef Resilience Project: future role in reef monitoring *Lam, Vivian, Andy Hooten, Jeremy Jackson
1130	The outlook for coral cover on the Great Barrier Reef *Doherty, Peter
1145	Monitoring supports establishment of Pacific Remote Islands Marine National Monument *Kenyon, Jean, James Maragos, Peter Vroom
1200	Health assessment indexes for the coral reefs in mainland China *Lian, Jiansheng, Hui Huang, Yuyang Zhang, Jianhui Yang, Jieying Huang
1215	Coral reefs of Gulf of Mannar, India: signs of resilience *Patterson, Edward J.K., G. Mathews, K. Diraviyaraj, T. Thinesh, Jamila Patterson, Jerker Tamelander, Dan Wilhelmsson
1230	Community based monitoring in Lakshadweep 2001-2011: lessons learnt, challenges and way forward *Hoon, Vineeta
1245	Status of <i>Acropora</i> populations in central and southern Mexican Caribbean *Nava, Gabriela, Miguel Garcia, Miguel Ruiz, Rodrigo Garza

1300 – 1400 Lunch

Thursday 12 July Oral presentation program

18F cont.

1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Monitoring of the northern region of the Florida Reef tract <i>*Dodge, Richard, David Gilliam, Chantal Collier, Kenneth Banks, Vanessa Brinkhuis, Louis Fisher, Robert Ruzicka</i>
1515	A spatial system to integrate and report reef monitoring data <i>*Goudkamp, Katrina, Roger Beeden, Jen Dryden, Cherie Malone, Fiona Merida, Sascha Taylor, Malcolm Turner</i>
1530	From data to improved conservation: success stories in Madagascar <i>*Randriamanantsoa, Bemahafaly, Ambroise Brenier</i>
1600 – 1630	Afternoon tea
1630	Coral reef temporal changes at Twin Rocks Fish Sanctuary, Philippines <i>*Molina, Erina Pauline, Marie Angela Petines, Margarita Lavidés</i>
1645	Reef-scale benthic change: using landscape mosaics to address monitoring gaps <i>*Cantwell, Kasey, Brooke Gintert, Nuno Gracias, Diego Lirman, Meghan Gonzalez, Arthur C.R. Gleason, R. Pamela Reid</i>
1700	Science-based design of coral protected areas in the Gulf of Mexico <i>*Schmahl, George, Emma Hickerson, Marissa Nuttall</i>
1715	A long term experiment in the Coral Coast MPA, Brazil <i>*Maida, Mauro, Beatrice Padovani Ferreira</i>
1730	Securing a future for endangered corals <i>*Sakashita, Miyoko, Brendan Cummings, Shaye Wolf</i>
1745	Currently turning to coral monitoring and management by climate changes in Korea <i>*Park, Heung-Sik, Kon Tak Yun, Do Hyung Kang, Byung Seol Koh</i>

Theme 19: Human impacts on coral reefs

0930 – 1715	19D Managing fish spawning aggregations
Room	Plenary Hall
Chair	Yvonne Sadovy de Mitcheson
0930	Local knowledge for aggregation management <i>*Russell, Martin</i>
0945	How are your grouper spawning aggregations doing? Ask the fish <i>*Appeldoorn, Richard, Michelle Schärer, Timothy Rowell, Michael Nemeth, David Mann</i>
1000	The science, politics, and conservation of Cayman Island Nassau grouper <i>*Semmens, Brice, Phillippe Bush, Christy Pattengill-Semmens, Scott Heppell, Croy McCoy, Bradley Johnson</i>
1015	Reef fish spawning aggregations on the northeastern Brazilian coast: status of knowledge and management perspectives <i>*Ferreira, Beatrice, George Olavo, Mauro Maida, Joao Marcelo Camargo, Aline Rocha França, Priscilla Nogueira Malafaia, Henrique Maranhão, Cláudio Baqueiro, Alberto Santos</i>
1030	Assessing the vulnerability of fish populations to targeted aggregation fishing <i>*Robinson, Jan, Melita Samoily</i>
1045 – 1115	Morning tea
1115	Opportunities and challenges of managing spawning aggregations in Fiji <i>*Fox, Margaret, Waisea Naisilisili, Stacy Jupiter</i>
1130	Reproductive movement and fisheries vulnerability of brown-marbled grouper, <i>Epinephelus fuscoguttatus</i> <i>*Rhodes, Kevin, Jennifer McIlwain, Eugene Joseph, Richard Nemeth</i>
1145	Spatio-temporal interactions between fisheries and fish spawning aggregations <i>*Erisman, Brad, Octavio Aburto-Oropeza, Charlotte Gonzalez-Abraham, Ismael Mascarenas-Osorio, Marcia Moreno-Baez, Philip Hastings</i>
1200	Protecting reef fish spawning aggregations in the Coral Triangle <i>*Hamilton, Richard, Glenn Almany, Tapas Potuku, Manuai Matawai</i>

Thursday 12 July Oral presentation program

19D cont.

1215	The right time and place: currents and Nassau grouper spawning <i>Heppell, Scott, *Christy Pattengill-Semmens, Brice Semmens, Phil Bush, Bradley Johnson, Croy McCoy, Selina Heppell</i>
1230	A fishery-dependent assessment of fishes at risk from aggregation fishing <i>*Tobin, Andrew, Leanne Currey, Colin Simpfendorfer</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Aggression and reproduction of <i>Bolbometopon Muricatum</i> at Wake Atoll <i>*Munoz, Roldan, Bryan Zgliczynski, Bradford Teer, Joseph Laughlin</i>
1515	Aggregation of <i>Plectropomus leopardus</i> at Lankayan Island Malaysia <i>*Chung, Fung Chen, Connie Fay Komilus</i>
1530	A risk based approach to management of spawning closures <i>Slade, Stephanie, *Brigid Kerrigan</i>
1545	Multi-species grouper spawning aggregation dynamics in Pohnpei, Micronesia <i>*Kadison, Elizabeth, Richard Nemeth, Kevin Rhodes</i>
1600 – 1630	Afternoon tea
1630	Grouper spawning aggregations: understanding their dynamics for effective management <i>*Hughes, Alec, Richard Hamilton, Tingo Leve</i>
1645	Conservation and management of grouper spawning aggregation sites: adaptive strategies based on fish movement patterns <i>*Nemeth, Richard S., Kevin Rhodes, Elizabeth Kadison</i>
1700	How are we doing so far? A spawning aggregation report card <i>*Sadovy de Mitcheson, Yvonne</i>

Theme 22: Social, economic & cultural perspectives

1115 – 1745	22A Cultural, political & historical dimensions of coral reef management
Room	Sebel Kuranda
Chair	Simon Foale
1115	A new fisheries biology learning tool for the Pacific <i>*Foale, Simon</i>
1130	Conservation of our natural heritage: the Singapore experience <i>*Low, Jeffrey, Liang Jim Lim</i>
1145	Integrating traditional ecological knowledge in the Kahalu'u Ahupua'a, Hawai'i <i>*Perez III, Kaipo, Mitchell Fujisaka, Paul L. Jokiel, Ku'ulei S. Rodgers</i>
1200	Integrating knowledge systems and methodologies <i>*Springer, S. Kehau, Pelika Bertelmann</i>
1215	Strengthening community leadership and conservation through effective communications <i>*Radway, Scott, Alumeci Nakeke, Ruth Pune, Francis Gabriel, Sheila Sarhangi</i>
1230	Science communication for marine ecosystem management: what works for whom? <i>*Cleland, Deborah, Porfirio Aliño</i>
1245	Extracurricular learning on the conservation of Brazilian reef environments <i>*Amaral, Fernanda, Maria de Fátima Santos, Katarina Melo, Catarina Fraga, Gilvaneide Oliveira, Flávia Vasconcelos, Andrea Steiner</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Strengthening local management through education and science in Solomon Islands <i>*Albert, Simon, Veira Pulekera, Ian Tibbetts, Jennifer Corrin, Alistair Grinham, Shankar Aswani, James Udy</i>

Thursday 12 July Oral presentation program

22A cont.

1515	Challenging gender stereotype: women fishers' protection and management of coral reefs in the Philippines <i>*Cleofe, Jovelyn</i>
1530	Gender and small-scale fishing practices in the central Philippines <i>*Kleiber, Danika, Amanda Vincent</i>
1545	Historical, cultural and social perspectives on seafood consumption in China <i>*Fabinyi, Michael</i>
1600 – 1630	Afternoon tea
1630	Integrating culture and conservation: experiences from a locally managed marine area in Indonesia <i>*Steenbergen, Dirk</i>
1645	Human dimensions of coral reef fisheries across the US Pacific <i>*Grace-McCaskey, Cynthia</i>
1700	Whose sustainability? Top-down participation in MPA management in Indonesia <i>*Baitoningsih, Wasistini, Marion Glaser, Sebastian Ferse, Muhamad Neil, Rio Deswandi</i>
1715	Social and economic drivers of transboundary environmental degradation in the Arafura-Timor Seas <i>*Stacey, Natasha, Lorenzo Fontes, Orlando Kailis, Johanna Karam, Julie Martin, Duto Nugroho, Subhat Nurhakim, Jim Prescott, Hermien Sospelisa, Tonny Wagey</i>
1730	Barriers to livelihood security in a Bajo fishing community <i>*Every, Frances</i>
0930 – 1045	22C Management of coral reefs in regions of high biocultural diversity
Room	Sebel Kuranda
Chair	Alana Grech
0930	Incorporating the knowledge of traditional peoples in qualitative risk assessments <i>*Grech, Alana, Bob Pressey, Helene Marsh, Rob Coles</i>

0945	Factors influencing success of traditional management of Fiji reef fisheries <i>*Jupiter, Stacy, Akuila Cakacaka, Sirilo Dulunaqio, Waisea Naisilisili, Rebecca Weeks</i>
1000	Social, economic and political impacts on coral reef growth <i>*Marlessy, Cliff, Simon Morin, Dirk Steenbergen</i>
1015	Traditional reef fisheries management practices of the South Sinai Bedouin <i>*Poonian, Chris</i>
1030	Social, cultural and financial evaluation of managing marine resources <i>*Delisle, Aurelie, Natalie Stoeckl, Helene Marsh</i>
1035	Successful community adaptive management approaches for maintaining marine biocultural diversity <i>*Tan, Wendy, Michael Guilbeaux</i>
1040	Are we succeeding? Monitoring and evaluation strategies for marine species management <i>*Hamann, Mark</i>
1115 – 1800	22D Economic valuation & market-based conservation
Room	Hall C
Chair	Nathalie Hilmi
1115	Ecomarkets for conservation and sustainable development in the coastal zone <i>*Hill, Jos, Rod Fujita, Alex Markham, John Lynham, Fiorenza Micheli, Andrea Sáenz-Arroyo, Luis Bourillón, Pasha Feinberg</i>
1130	Key ecosystem values and their implications for fisheries management <i>*Hicks, Christina, Josh Cinner, Jan Robinson, Natalie Stoeckl</i>
1145	What impacts to expect from economic valuation of coral reef? <i>*Pascal, Nicolas, Eric Clua, Gilbert David, Yann Laurans, Andrew Seidl, Mahe Charles, Vina Ram, Luke Brander</i>
1200	Capturing Malagasy fisher communities' non-market economic values using mixed methods <i>*Oleson, Kirsten, Luke Brander, Bienvenue Zafindrasilivonona, Ingrid van Beek, Pieter van Beukering</i>
1215	Untapped millions: utilizing impact investments to improve ocean health <i>*Bos, Melissa</i>

Thursday 12 July Oral presentation program

22D cont.

1230	Loss of economic value due to coral bleaching in South East Asia <i>*Doshi, Amar, Sean Pascoe, Olivier Thebaud, Kristy Walmo</i>
1245	Using market-based conservation for alternative livelihoods in eastern Indonesia <i>*Hatzios, Marea</i>
1300 – 1400	Lunch
1400 – 1500	Plenary: Madeleine van Oppen: Can old corals learn new tricks?, Plenary Hall 2
1500	Comparing two value chains in the Coral Triangle <i>*Cruz-Trinidad, Annabelle, D. Boso, J. Albert, M. Matillano, J. Palma, P. Alinō, R. Geronimo, R. Cabral</i>
1515	The worth of coastal ecosystems: a review of economic valuation studies in the Coral Triangle <i>*Napitupulu, Lydia, Titaningtyas</i>
1530	Coastal capital: taking stock of coral reef valuations in five Caribbean countries <i>*Burke, Laretta, Richard Waite, Benjamin Kushner</i>
1545	Resilience through mutual co-operation between local and international communities <i>*LaFranchi, Christopher</i>
1600 – 1630	Afternoon tea
1630	Balancing economic needs with ecosystem services in Solomon Island communities <i>*Albert, Joelle, Anne-Maree Schwarz, Annabelle Cruz-Trinidad, Kimberley Warren-Rhodes, Delvene Boso</i>
1645	The protective value of coral reefs in calculating insurance premiums <i>*Bell, Justine, Megan Saunders, Peter J. Mumby</i>
1700	Identification of novel antiviral activities from coral reef organisms <i>*Kremb, Stephan, Horst Wolff, Markus Helfer, Lauren Yum, Timothy Ravasi, Christian Voolstra, Ruth Brack-Werner</i>
1715	Decision making tools: how to best manage the coral reefs? <i>*Hilmi, Nathalie, Alain Safa, Mine Cinar</i>

Thursday 12 July Other activities

Exhibition opening hours

0800-1630

Associated meetings, events and workshops

INVITATION ONLY

Inter Operator Study: Progress report

1300-1345, MR3

Discuss progress on the labeling efforts, look at preliminary results and further analysis work. Discuss paper outline and key points.

Friday 13 July Program

Mini-Symposia index for oral presentations

Mini-Symposium	Time	Room
3A Evolution, biogeography & taxonomy	1000-1045	Sebel Tully
3C New age of integrated coral taxonomy	1115-1500	Sebel Tully
4C Coral reef response to multiple stresses: organisms to ecosystems	1000-1500	Sebel Mossman
7A Genomic approaches to coral reef biology	1000-1500	MR1
8A Organism & ecosystem responses to ocean acidification	1000-1500	MR5
9D Refuges for corals in time & space	1115-1500	Hall A
11E Long-term change in coral reef ecosystems	1000-1500	Hall D
12A Life histories & reproduction	1000-1500	Sebel Bluewater
13C Ecological effects of habitat degradation	1000-1045	Hall A
16C Immune defences of coral reef organisms	1000-1500	MR3
18D Strengthening science-management partnerships	1115-1500	Hall C
18F Does monitoring lead to improved coral reef management?	1000-1300	Hall B
21B Enhancing coral reef resilience through management of water quality	1000-1500	Plenary Hall 2
22A Cultural, political & historical dimensions of coral reef management	1000-1500	Sebel Kuranda

Friday 13 July Program

Scientific program at a glance

0830	Plenary Hall 2 ISRS Presidential Address												
0900	Plenary Hall 2 Darwin Medal Address Jeremy Jackson: The future of corals and coral reefs												
	Plenary Hall 2	Hall A	Hall B	Hall C	Hall D	MR1		MR3	MR5	Sebel Tully	Sebel Kuranda	Sebel Mossman	Sebel Bluewater
1000	21B: Enhancing reef resilience through management of water quality	13C cont: Ecological effects of habitat degradation	18F cont: Does monitoring lead to improved coral reef management?		11E: Long-term change in coral reef ecosystems	7A cont: Genomic approaches to coral reef biology		16C: Immune defences of coral reef organisms	8A: Organism & ecosystem responses to ocean acidification	3A cont: Evolution, biogeography & taxonomy	22A cont: Cultural, political & historical dimensions of coral reef management	4C cont: Coral reef responses to multiple stresses	12A cont: Life histories & reproduction
1045	Morning tea												
1115	21B	9D: Refuges for corals in time & space	18F	18D: Strengthening science-management partnerships	11E	7A		16C	8A	3C: New age of integrated coral taxonomy	22A	4C	12A
1300	Lunch (Cairns Convention Centre)												
1400	21B	9D		18D	11E	7A		16C	8A	3C	22A	4C	12A
1515	Plenary Hall 2 Ove Hoegh-Guldberg Plenary: Coral reefs and global change												
1600	Plenary Hall 2 ICRS 2012 Closing												

Friday 13 July Oral presentation program

Create your own daily program for Friday 13 July

Time	Presenter	Venue	Room Number
0830-0900	ISRS Presidential Address	Cairns Convention Centre	Plenary Hall 2
0900-0945	Darwin Medallist, Jeremy Jackson Plenary	Cairns Convention Centre	Plenary Hall 2
0945-1000	Transition		
1000			
1015			
1030			
1045-1115	Morning tea		
1115			
1130			
1145			
1200			
1215			
1230			
1245			
1300-1400	Lunch		
1400			
1415			
1430			
1445			
1500-1515	Transition		
1515-1600	Ove Hoegh-Guldberg Plenary	Cairns Convention Centre	Plenary Hall 2
1600-1605	ICRS 2012 Closing		

Theme 3: Evolution, biogeography & taxonomy

1000 – 1045	3A Evolution, biogeography & taxonomy
Room	Sebel Tully
Chair	John Pandolfi
1000	Regional differences in species diversity and chemotypes: soft coral <i>Sarcophyton</i> <i>*Aratake, Satoe, Tomohiko Tomura, James Reimer, Junichi Tanaka, Hideaki Maekawa</i>
1015	Coastal boundaries and ecological traits: biogeography of Australian cryptobenthic fishes <i>*Godinho, Wander, Osmar Luiz, Joshua Madin, Joseph Maina, Jane Williamson</i>
1030	Evolutionary mechanisms and diversity in a western Indian Ocean center of diversity <i>*Obura, David</i>
1115 – 1500	3C The new age of integrated coral taxonomy
Room	Sebel Tully
Chair	Michel Pichon
1115	Climate change and the evolution of the Scleractinia <i>*Kitahara, Marcelo, Stephen Cairns, Jaroslaw Stolarski, Carden Wallace, David Miller</i>
1130	Skeletal structure of scleractinian corals: biological, evolutionary and taxonomic significance <i>*Stolarski, Jaroslaw, Chloé Brahmi, Katarzyna Janiszewska, Isabelle Domart-Coulon, Anders Meibom</i>
1145	Evolution of coral macromorphology, microstructure and micromorphology in the 'Bigmessidae' <i>*Huang, Danwei, Edward Lovell, Ann Budd</i>
1200	Once were Faviidae: unexpected robust coral clades explained by morphology <i>*Benzoni, Francesca, Roberto Arrigoni, Fabrizio Stefani</i>
1215	Diversification and phylogenetics in the Caribbean coral genus <i>Agaricia</i> <i>*Meyers, Meredith, James Porter, John Wares</i>

Friday 13 July Oral presentation program

3C cont.

1230	How to identify species of the massive coral genus <i>Favia</i> *Fukami, Hironobu, Kaoru Sugihara, Hiroyuki Tachikawa, Yuko Kitano, Paul Muir, Carden Wallace
1245	Evolutionary relationships within the family Dendrophylliidae based on morpho-molecular evidences *Arrigoni, Roberto, Francesca Benzoni, Fabrizio Stefani, Paolo Galli, Simone Montano
1300 – 1400	Lunch
1400	Applying the unified species concept to <i>Pocillopora damicornis</i> ecomorphs *Schmidt-Roach, Sebastian, Karen Miller, Petra Lundgren, Gabriele Gerlach, Nikos Andreakis
1415	Phylogenetic patterns in the genus <i>Euphyllia</i> *Luzon, Katrina, Wilfredo Licuanan, Ma. Carmen Lagman, Meifang Lin, Chaolun Allen Chen
1430	A phylogenetic ecology of mushroom corals *Hoeksema, Bert W.
1445	DNA barcoding in Cnidarians: where do we stand? Where do we go? *Sinniger, Frederic, Didier Zoccola, Amy Baco, Jean François Flot, Fabrizio Stefani, Francesca Benzoni, Sebastian Schmidt-Roach, Anke Klueter, Catherine McFadden, Zac Forsman

Theme 4: Biophysical processes

1000 – 1500	4C Coral reef response to multiple stresses: organisms to ecosystems
Room	Sebel Mossman
Chair	Hajime Kayanne
1000	Rising sea temperature could cause reduction in protective mucus of corals *Pratte, Zoe, Laurie Richardson
1015	New insights on coral bleaching mechanisms *Casareto, Beatriz, Tomihiko Higuchi, Sylvain Agostini, Toshiyuki Suzuki, Koichi Yoshinaga, Hiroyuki Fujimura, Yoshimi Suzuki
1030	Poor tissue regeneration in corals at a marginal reef site *Oigman-Pszczol, Simone, Joel Creed, Frederico Tãmega

1035	Impact of the 2009 tsunami in American Samoa *Fenner, Douglas, Domingo Ochavillo, Lucy Jacob
1040	Benthic-pelagic coupling in a Caribbean reef lagoon affected by hurricane 'Dolly' *Naumann, Malik S., Andreas F. Haas, Carin Jantzen, Roberto Iglesias-Prieto, Christian Wild
1045 – 1115	Morning tea
1115	Carbon/nitrogen allocation between coral and zooxanthellae *Suzuki, Yoshimi, Beatriz Casareto, Kazuyo Shiroma, Sylvain Agostini
1130	Long-term responses of coral reefs chronically disturbed by runoff *Rodriguez-Ramirez, Alberto, Craig Grove, Catalina Reyes-Nivia, John Pandolfi, Jian-Xin Zhao
1145	Environmental factors affect soft coral-derived organic matter fluxes *Bednarz, Vanessa, Wolfgang Niggel, Malik Naumann, Christian Wild
1200	Impacts of coral growth anomaly on organismal and population viability *Burns, John, Misaki Takabayashi, Makani Gregg
1215	Temperature dependence of respiration rate of larvae and adult corals *Haryanti, Dwi, Saki Harii, Michio Hidaka
1230	Variation of growth and symbiont photosynthesis among corals *Nakamura, Takashi, Atsushi Suzuki, Akihiro Iwase, Akira Iguchi
1245	Reef-related fauna stressed out? Insights from experiments *Von Juterzenka, Karen, Nurina Ayu, Mareike Huhn, Anne Schaefer, Agung Siregar, Shelly Tutupoho, Dian Respati Widianari, Simon Morley, Michael Schmid, Neviaty Zamani
1300 – 1400	Lunch
1400	Impact of natural and anthropogenic perturbations on the benthic compartment functioning *Kolasinski, Joanna, Lionel Bigot, Karyne Rogers, Patrick Frouin

Friday 13 July Oral presentation program

4C cont.

1415	Synergetic effect of herbicide and sedimentation on coral and its distribution in Shiraho Reef *Fujimura, Hiroyuki, Atsushi Kaneshiro, Tamotsu Oomori, Shinichi Gima, Sylvan Agostini, Tomihiko Higuchi, Beatriz Casareto, Yoshimi Suzuki, Tepei Sagawa
1430	Will the accretion-erosion balance persist? Effects of microhabitat variation on bioerosion *Silbiger, Nyssa, Megan Donahue, Oscar Guadayol, Florence Thomas
1445	Coral pheno- and genotypic characteristics along an environmental gradient *Roder, Cornelia, Maren Kruse, Manuel Aranda, Till Bayer, Christian R. Voolstra

Theme 7: Genomic approaches to coral reef biology

1000 – 1500	7A Genomic approaches to coral reef biology
Room	MR1
Chair	Christian Voolstra
1000	The genome of the Red Sea coral <i>Stylophora pistillata</i> *Aranda Lastra, Manuel, Adrian Carr, Yi J. Lewis, Till Bayer, Didier Zoccola, Denis Allemand, Shahjahan Ali, Timothy Ravasi, Gos Micklem, Christian R. Voolstra
1015	Endosymbiosis drives transcriptomic adjustments and genomic adaptations in cnidarians *Sabourault, Cecile, Philippe Ganot, Aurelie Moya, Paola Furla
1030	Understanding the stress response of reef corals in French Polynesia *Wecker, Patricia, Héloïse Rouzé, Martin Desmalades, Eric Tambutté, Serge Planes, Veronique Berteaux-Lecellier
1035	Transpacific phylogenomic analysis of <i>Pocillopora damicornis</i> populations. *Combosch, David, Steve Vollmer
1040	Unraveling coral population genetics: a single-tube method to determine SNP allele frequencies *Capper, Roxana, Petra Lundgren, Mikhail Matz
1045 – 1115	Morning tea

1115	Using next generation sequencing to understand coral reef diversity *Knowlton, Nancy, Christopher Meyer, Matthieu Leray, Ryuji Machida, Julian Caley, Russell Brainard, Laetitia Plaisance
1130	Genetic adaptation across a temperature gradient *Bay, Rachael, Stephen Palumbi
1145	Transcriptome and gene-expression studies in the model organism <i>Aiptasia</i> *Lehnert, Erik, Matthew Burriesci, John Pringle
1200	Sequencing the genome of <i>Symbiodinium</i> sp. A1 from <i>Stylophora pistillata</i> *Carr, Adrian, Manuel Aranda, Till Bayer, Yi Jin Liew, Timothy Ravasi, Gos Micklem, Christian Voolstra
1215	Genomic approaches to understanding holobiont robustness under thermal stress *Weber, Michele, Roberto Iglesias-Prieto, Hiroaki Kitano, Mónica Medina
1230	Gene expression profiles underlying heritable variation in corals' thermal tolerance *Meyer, Eli, Sarah Davies, Roxana Capper, Mikhail Matz
1245	Small RNA discovery in <i>Stylophora pistillata</i> and <i>Symbiodinium</i> sp. *Liew, Yi Jin, Manuel Aranda, Till Bayer, Adrian Carr, Didier Zoccola, Timothy Ravasi, Gos Micklem, Christian Voolstra
1250	Corallimorphs as a model for coral reef stress response *Granger, Brian
1255	Tissue homeostasis and cell lineage differentiation mechanisms in Scleractinian corals *Reyes-Bermudez, Alejandro, Michio Hidaka, Yutaka Watanabe, Denise Brooks, Alexander Mikheyev
1300 – 1400	Lunch
1400	Characterising the transcriptomic response of <i>Symbiodinium</i> to stress *Leggat, Bill, Sylvain Forêt, Teresa Bobeszko, Daisie Ogawa, Lubna Ukani, David Yellowlees, Tracy Ainsworth
1415	Coral reef management in the post-genomic era *Kassahn, Karin, John Mattick, Christian Voolstra, Madeleine van Oppen, Ruth Gates, Petra Lundgren, Ove Hoegh-Guldberg, Sylvain Forêt, David Miller

Friday 13 July Oral presentation program

7A cont.

1430	Comparative transcriptomics of two marine sponges from the Red Sea <i>Lafi, Feras, Taewoo Ryu, Lucas Silva, Loqmane Seridi, Emily Giles, Christian Voolstra, Ute Hentschel, *Timothy Ravasi</i>
1445	The <i>Acropora millepora</i> genome <i>*Forêt, Sylvain, Torsten Seemann, Kirby Siemering, Hayward David, Eldon Ball, David Miller</i>

Theme 8: Ocean acidification

1000 – 1500	8A Organism & ecosystem responses to ocean acidification
Room	MR5
Chair	Malcolm McCulloch
1000	Resilience of coral reefs to an acidifying ocean: the role of pH up-regulation during calcification <i>*McCulloch, Malcolm, James Falter, Julie Trotter, Paolo Montagna</i>
1015	A 6-month <i>in situ</i> ocean acidification experiment on Heron Island <i>*Kline, David, Lida Teneva, Kenneth Schneider, Thomas Miard, Aaron Chai, Malcolm Marker, Brad Opdyke, Greg Mitchell, Sophie Dove, Ove Hoegh-Guldberg</i>
1030	High-latitude coral: assessing the impacts of climate change <i>*Brooks, Kirsty, Grzegorz Skrzypek, Delphine Dissard, Jens Zinke, Damian Thomson, John Keesing, Malcolm McCulloch</i>
1035	Warmer more acidic oceans reduce productivity and calcification of <i>Halimeda</i> <i>*Sinutok, Sutinee, Ross Hill, Martina Doblin, Peter Ralph</i>
1040	Transgenerational effects alter ocean acidification impacts on juvenile reef fish <i>*Miller, Gabrielle, Philip Munday, Mark McCormick, Sue-Ann Watson</i>
1045 – 1115	Morning tea
1115	Ocean acidification interferes with brain function in marine fish <i>*Munday, Philip, Danielle Dixon, Paolo Domenici, Mark McCormick, Christina Sorensen, Sue-Ann Watson, Goran Nilsson</i>
1130	Resistance to ocean acidification in larvae of a subtropical fish <i>*Bignami, Sean, Su Sponaugle, Robert Cowen</i>

1145	Ocean acidification impacts on seaweeds, algal turfs and coralline algae <i>*Diaz-Pulido, Guillermo, Kenneth Anthony, Dorothea Bender, Merinda Nash, Christopher Doropoulos, Jian Wei Lai, Alexandra Ordoñez-Alvarez, Catalina Reyes-Nivia</i>
1200	Monitoring ecological impacts of ocean acidification on Pacific reefs <i>*Brainard, Russell, Charles Young, Cristi Braun, Molly Timmers, Bernardo Vargas-Angel, Richard Feely, Anne Cohen, Nichole Price, Jennifer Smith, Dwight Gledhill</i>
1215	Metabolic plasticity in coral larvae under ocean acidification and warming <i>*Rivest, Emily, Gretchen Hofmann</i>
1230	Physiological and reproductive effects of increased PCO ₂ on <i>Echinometra mathaei</i> <i>Uthicke, Sven, Natalie Soars, Shawna Foo, *Maria Byrne</i>
1245	Argonauta at risk: dissolution and carbonate mineralogy of egg cases <i>*Smith, Abigail, Kennedy Wolfe, Maria Byrne</i>
1250	Calcification, costs, predation: are tropical invertebrates more resilient to OA? <i>*Watson, Sue-Ann</i>
1300 – 1400	Lunch
1400	Effect of environmental change on <i>Porites</i> growth during the last 100 years <i>*Watanabe, Tsuyoshi, Atsuko Yamazaki, Takashi Kawamura, Jumpei Isasa, Takashi Nakamura, Kohki Sowa, Fumihito Iwase, Keiichi Nomura, Kaoru Sugihara, Osamu Abe, Tatsuhiko Sakamoto, Masafumi Murayama, Hiroya Yamano</i>
1415	Different sensitivity among scleractinian corals to enhanced ocean acidification <i>Goffredo, Stefano, *Fiorella Prada, Erik Caroselli, Bruno Capaccioni, Giuseppe Falini, Oren Levy, Zvy Dubinsky, Francesco Zaccanti</i>
1430	Coral adaptation to hotter, more acidic oceans <i>*Jury, Christopher, Robert Toonen</i>
1445	Nitrogen addition modulates the response of <i>Hydrolithon</i> to ocean acidification <i>*Carpenter, Robert, Maggie Johnson, Vince Moriarty</i>

Friday 13 July Oral presentation program

Theme 9: Climate change & bleaching

1115 – 1500	9D Refuges for corals in time & space
Room	Hall A
Chair	Marilyn Brandt
1115	Investigating the role of coral disease in a potential reef refuge <i>*Brandt, Marilyn, Tyler Smith, Akima George, Robert Stolz</i>
1130	Refuges for corals and reefs over the next 100 years <i>*Smith, Tyler</i>
1145	Vertical connectivity in the Caribbean broadcast spawning coral <i>Montastraea cavernosa</i> <i>*Serrano, Xaymara, Andrew Baker</i>
1200	Solitons mitigate coral bleaching in the Andaman Sea: the <i>Porites</i> perspective <i>*Schmidt, Gertraud Maria, Marlene Wall, Carin Jantzen, Patrick Bürger, Somkiat Khokiattiwong, Claudio Richter</i>
1215	Ocean acidification refugia of the Florida reef tract <i>*Manzello, Derek, Ian Enochs, Nelson Melo, Libby Johns, Danielle Graham, Dwight Gledhill, Jim Hendee, Rik Wanninkhof</i>
1230	Reefs of last resort: locating and assessing thermal refugia in the wider Caribbean <i>*Chollett, Iliana, Peter J. Mumby</i>
1300 – 1400	Lunch
1400	Can cyclone induced cooling offer refuge to thermally stressed corals? <i>*Carrigan, Adam, Marji Puotinen</i>
1415	Fertility in the fathoms: mesophotic coral reproductive refugia and connectivity <i>*Holstein, Daniel, Claire B. Paris, Tyler B. Smith</i>
1430	Thermal spatial heterogeneity and coral bleaching: implications for habitat refuges <i>*Bhagooli, Ranjeet, Nawsheen Taleb-Hossenkhan</i>
1445	Physical processes in a mesophotic coral refuge across bleaching events <i>*Gyory, Joanna, Tyler Smith, Laurent Cherubin</i>

Theme 11: Ecological dynamics, resilience & phase shifts

1000 – 1500	11E Long-term change in coral reef ecosystems
Room	Hall D
Chair	Loren McClenachan
1000	Half a millennium of coral reef fisheries in Hawai'i and Florida <i>*McClenachan, Loren, John Kittinger</i>
1015	Historical recoveries in Hawaiian coral reefs: understanding long-term social-ecological linkages <i>*Kittinger, John, John Pandolfi, Jonathan Blodgett, Terry Hunt, Hong Jiang, Kepa Maly, Loren McClenachan, Jennifer Schultz, Bruce Wilcox</i>
1030	Thirty years of change in Florida Keys reef fish communities <i>*Ruttenberg, Benjamin, James Bohnsack, Jerald Ault, Steven Smith, David McClellan, Jack Javech, Joseph Serafy, Klaus Huebert</i>
1045 – 1115	Morning tea
1115	Reef collapse but little coral diversity loss over 50 years <i>*Guillaume, Mireille M.M., Michel Pichon, Faravavy Rasoamanendrika, J. Henrich Bruggemann</i>
1130	Measuring coral community resilience: a 40-year analysis at Andros Island <i>*Gintert, Brooke, Nuno Gracias, Kasey Cantwell, Thomas Szlyk, Marc Ciminello, R. Pamela Reid</i>
1145	Reassembly of an isolated coral reef fish community following severe disturbance <i>*Travers, Mike, Mark Meekan, Rebecca O'Leary, James Gilmour</i>
1200	Re-assembly schedules for Great Barrier Reef coral communities following disturbance <i>*Johns, Kerry</i>
1215	Restrained recovery of coral: the influence of macroalgae and MPAs <i>*Wilson, Shaun, Nicholas Graham, Nicholas Polunin, Rebecca Fisher, Karen Chong-Seng, Kirsty Nash, Jan Robinson, Riaz Aumeeruddy, Rodney Quatre</i>
1230	Disparate trajectories of coral reef decline inform strategies for recovery <i>Jackson, Jeremy, Vivian Lam, Lauren Freeman, *Katie Cramer</i>

Friday 13 July Oral presentation program

11E cont.

1300 – 1400 Lunch	
1400	Anthropogenic mortality on Caribbean coral reefs before coral bleaching and disease <i>*Cramer, Katie, Jeremy Jackson, Chris Angioletti, Jill Leonard-Pingel, Thomas Guilderson</i>
1415	Spatial and temporal coral mortality on the Great Barrier Reef <i>*Tan, Chun Hong, Andrew Baird, Line Bay</i>
1430	Long-term changes of coral reefs in Kenting National Park, Taiwan <i>*Kuo, Chao-Yang</i>
1445	Long term spatio-temporal patterns in benthic composition of Caribbean coral reefs <i>*Jeffrey, Christopher, Simon Pittman, Bryan Costa, Chris Caldwell</i>

Theme 12: Life histories & reproduction

1000 – 1500 12A Life histories & reproduction	
Room	Sebel Bluewater
Chair	Andrew Baird
1000	Do corals with maternal (vertical) symbiont transmission acquire symbionts? <i>Byler, Kristen, Maoz Fine, *Tamar Goulet</i>
1015	Regular spawning and larva production in a laboratory <i>Aiptasia</i> population <i>*Perez, Santiago, John Pringle</i>
1030	What is a weedy coral? Identifying life-history strategies of reef-building corals <i>*Darling, Emily, Lorenzo Alvarez-Filip, Thomas Oliver, Isabelle Cote</i>
1045 – 1115 Morning tea	
1115	Reproduction in corals at the individual and modular levels <i>*Ang, Jr., Put, P.L. Lau, M.C. Wong, Y.L. Hui, C.W. Yeung, P.Y. Chui</i>
1130	Quantifying connectivity between mangroves and reefs by otolith microchemistry <i>*Paillon, Christelle, Laurent Vigliola, Laurent Wantiez</i>
1145	Effects of parasites on young damselfish (<i>Pomacentrus amboinensis</i>) <i>*Sun, Derek, Simon Blomberg, Thomas Cribb, Mark McCormick, Alexandra Grutter</i>

1200	Conflict resolution in territorial reef fishes: interactions between body size and behaviour <i>Amundsen, Trond, *Cait Newport</i>
1215	The fastest fish in the world to change colour <i>*Amundsen, Trond, Morten F. Amundsen, Helen N. Sköld</i>
1230	Coloration signals dominance in a coral reef fish <i>Amundsen, Trond, Elisabet Forsgren, Caitlin Newport, *Sara Ostlund Nilsson</i>
1245	Pathways of hermaphroditism of three species of groupers in Brazil <i>*Marques, Simone, Beatrice Padovani Ferreira</i>
1300 – 1400 Lunch	
1400	The larval fish pelagic phase: a sanctuary from harmful parasites? <i>*Grutter, Alexandra, Thomas Cribb, Bronwyn Fargher, Armand Kuris, Mark McCormick, Robert Warner</i>
1415	Scleractinian corals seed sediments with free-living symbionts for future recruits <i>*Nitschke, Matthew, Selina Ward</i>
1430	Reproductive benefits of no-take reserves vary latitudinally for <i>Plectropomus leopardus</i> <i>*Carter, Alex, Bruce Mapstone, Garry Russ, Andrew Tobin, Ashley Williams</i>
1445	Multi-agent cooperative negotiation for sex roles and reproductive shares in a group-forming hermaphroditic fish <i>*Walker, Stefan P.W.</i>

Theme 13: Fish & fisheries

1000 – 1045 13C Ecological effects of habitat degradation	
Room	Hall A
Chair	Andrew Hoey
1000	Cardiorespiratory physiology and energetics of reef fishes <i>*Clark, Timothy</i>
1015	Banggai cardinalfish ornamental fishery: the importance of microhabitat <i>*Moore, Abigail, Samliok Ndobe, Al-Ismi Salanggon, Ederyan, Abdul Rahman</i>

Friday 13 July Oral presentation program

13C cont.

1030	Macroecology of butterflyfish feeding behavior: what the generalists can tell? *Segal, Barbara, Lucas Nunes, Ana Paula Burigo, Jose Carvalho, Ana Liedke, Sonia Buck, Sergio Floeter
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Theme 16: Microbes & viruses

1000 – 1500	16C Immune defenses of coral reef organisms
Room	MR3
Chair	Laura Mydlarz
1000	Why do corals vary in susceptibility to disease? *Mydlarz, Laura, Jorge Pinzon, Caroline Palmer
1015	The genomics and transcriptomics of immunity and the coral 'holobiont' *Traylor-Knowles, Nikki, Brian Granger, Tristan Lubinski, Les Kaufman, John Finnerty
1030	The coral surface mucus layer: the first line of defence? *Bythell, John, Reia Guppy, Amita Jatkar, Michael Sweet, Nick Morris, Jeff Pearson, Barbara Brown

1045 – 1115 Morning tea

1115	The immune response of <i>Pocillopora damicornis</i> confronted to <i>Vibrio coralliilyticus</i> Vidal-Dupiol, Jeremie, Ophélie Ladrière, Nolwenn Dheilly, Delphine Destoumieux-Garzon, Sylvie Tambutté, Christoph Grunau, Céline Cosseau, Michael Freitag, Mehdi Adjeroud, *Guillaume Mitta
1130	The immune response of the coral <i>Acropora millepora</i> under CO ₂ stress *Aguilar, Catalina, Susanne Sprungala, Sylvain Forêt, Andrew Baird, David Miller
1145	Possible roles of the complement pathway in cnidarian-dinoflagellate symbiosis *Hambleton, Elizabeth, Lisl Esherick, John Pringle
1200	Xenophagy an important first line of defense in coral immunity Kushmaro, Ariel, *Esti Kramarsky-Winter
1215	Temperature effect on host-pathogen dynamics of Caribbean octocoral, <i>Gorgonia ventalina</i> *Mann, Whitney, Joshua Beach-Letendre, Laura Mydlarz

1230	Gorgonian amoebocytes demonstrate differential staining and anti-lysozyme and anti-myeloperoxidase immunoreactivity Holder, Katharine L., A. Sally Davis, Esther C. Peters, Craig A. Harms, *Taylor L. Reynolds
1245	Host-microbe interactions in the cnidarian <i>Hydra</i> *Franzenburg, Sören, Sebastian Fraune, Thomas C.G. Bosch
1300 – 1400	Lunch
1400	Density-dependent prophylaxis in the crown of thorns starfish *Mills, Suzanne
1415	How to cause apoptosis in coral using human TNF *Quistad, Steven, Juris Grasis, Forest Rohwer
1430	Healing and early regeneration in Anthozoan Cnidarians *Burmester, Elizabeth, Nikki Traylor-Knowles, Derek Stefanik
1445	Can sediment stress affect coral immunity? *Sheridan, Christopher, Ariel Kushmaro, Caroline V. Palmer, Stephane Hénard, Igor Eeckhaut

Theme 18: Management & monitoring

1115 – 1500	18D Strengthening science-management partnerships
Room	Hall C
Chair	Steven Thur
1115	How science drives management changes in Florida Keys National Marine Sanctuary *Morton, Sean
1130	Science and public input: Biscayne National Park's proposed marine reserve *Alvear, Elsa
1145	Potential cumulative impacts of swim-with activities on dwarf minke whales Sobtzick, Susan, Alastair Birtles, *Helene Marsh
1200	Managing for recovery: translating monitoring into management decisions in Indonesia *Jakub, Raymond, Joanne Wilson, Rizya Ardiwijaya

Friday 13 July Oral presentation program

18D cont.

1215	Engaging with and coordinating across research programs to optimise investment <i>*Molloy, Fergus, David Wachenfeld, Peter McGinnity, Laurence McCook, Kirstin Dobbs, Julia Chandler, Hugh Yorkston, Peter Doherty, David Johnson, Claire Andersen</i>
1230	The role of knowledge in local government planning for climate change <i>*Leitch, Anne</i>
1300 – 1400 Lunch	
1400	Improving management effectiveness of the marine reserves of Rodrigues (Western Indian Ocean) <i>*Raffin, Jean Stephen Jovani, Rebecca Klaus, Emily Ruth Hardman, Marie Sabrina Meunier, Sydney Perrine, Francois Eric Incery Blais, Runolph Raffaut</i>
1415	Teardrop: a rapid reef mosaicing tool for coastal communities <i>*Soriano, Maricor, Roel John Judilla, Eusebio Jr. Capili, Jaylord Jauod, Francis James Corpuz</i>
1430	MPA evaluation and habitat characterization for vulnerability assessment in Davao, Philippines <i>*Bacaltos, Della Grace, Buzar Beu Bacaltos, Fra Quimpo, Roy Molina, Joy Jimenez, Hilly Roa-Quiaoit</i>
1445	Sustainable Research Vessel <i>*Puill-Stephan, Eneour, Benoit Ringot</i>
1000 – 1300 18F Does monitoring lead to improved coral reef management?	
Room	Hall B
Chair	Jerker Tamelander
1000	Monitoring as a tool to improve coral reef management <i>*Joseph, Eugene</i>
1015	Two hundred eyes are better than two <i>*Merida, Fiona, Katrina Goudcamp, Julia Chandler, Chris Briggs</i>
1030	Status of coral reefs in east and north Asia <i>*Kimura, Tadashi, Chang-feng Dai, Put O. Ang, Hui Huang, Heung-sik Park</i>
1045 – 1115 Morning tea	

1115	Brunei launches monitoring and MPA program <i>*Hodgson, Gregor, Al-Idrus Nikman</i>
1130	Investigation and adapting ecological effectiveness for community-based management in Fiji <i>*Meo, Semisi, James Comley, Loraini Sivo, Sunia Waqainabete</i>
1145	Citizen based monitoring survey of the blue coral community (<i>Heliopora coerulea</i>) of Oura Bay, Okinawa <i>*Abe, Mariko, Masato Ohno, Tatsuo Nakai, Yoshikatsu Nakano, Hitoshi Hasegawa, Tomoya Goto, Shinichi Hanawa, Shigekazu Mezaki</i>
1200	Socio-economic monitoring improves adaptive management planning for Helen Reef, Palau <i>*Victor, Rosania, Wayne Andrew</i>
1215	A socio-economic assessment: risks, hazards, climate change impacts and adaptation at a local level <i>*Wanyonyi, Innocent</i>
1230	A quantitative SocMon approach for fishing communities in northern Honduras <i>*Sanders, Arie, Denisse McLean, Sara Bonilla</i>
1245	Beyond the biophysical: establishing a long-term socioeconomic monitoring program for the United States' coral reefs <i>*Loper, Christy</i>

Theme 21: Water quality: impacts & management

1000 – 1500 21B Enhancing coral reef resilience through management of water quality	
Room	Plenary Hall 2
Chair	Frederieke Kroon
1000	Enhancing coral reef resilience through management of water quality <i>*Kroon, Frederieke, Britta Schaffelke, Rebecca Bartley</i>
1015	Water quality variability in the inshore Great Barrier Reef lagoon <i>*Schaffelke, Britta, John Carleton, Miles Furnas, Murray Logan</i>
1030	Reef Water Quality Protection Plan: making the Great Barrier Reef resilient <i>*Andersen, Claire</i>

Friday 13 July Oral presentation program

21B cont.

1045 – 1115 Morning tea	
1115	Salinity as a structuring force for near shore coral communities <i>*True, James, Srisakul Piromvaragorn</i>
1130	Great Barrier Reef report card: measuring progress towards our targets <i>*Chinn, Chris</i>
1145	Environmental correlates of coral communities exposed to multiple disturbances <i>*Oh, Beverly, Tsai Min Sin</i>
1200	Increased temperatures and eutrophication inhibit growth of the photosymbiont-bearing <i>foraminifera</i> , <i>Marginopora vertebralis</i> <i>*Reymond, Claire, Sven Uthicke, John Pandolfi</i>
1215	Biogeochemical conditions and sessile foundation species composition in coral reefs <i>*Sakamaki, Takashi, Shoji Tohyama, Moe Katayama, Akiko Morita, Takashi Kawai</i>
1230	Using statistical emulators to facilitate uncertainty quantification of pollutant loads <i>*Wikle, Christopher, Petra Kuhnert, William Leeds</i>
1245	Load estimation and uncertainty in GBR catchments: a data assimilation approach <i>*Kuhnert, Petra, Rebecca Bartley, Erin Peterson, Scott Wilkinson, Christopher Wikle</i>
1300 – 1400 Lunch	
1400	Pollution increases climate impacts on coral <i>*Negri, Andrew, Florita Flores, Sven Uthicke, Mia Hoogenboom</i>
1415	Are off-reef water samples a good proxy for on-reef conditions? <i>*Ow, Yan Xiang, Tsai Min Sin</i>
1430	Water quality benefits of improved agricultural management practices <i>*Thorburn, Peter, Scott Wilkinson</i>
1445	Extreme environmental conditions disproportionately force change in coral community composition <i>*Thompson, Angus, Britta Schaffelke, Paul Costello, Johnston Davidson</i>

1450	Macro-bioerosion in <i>Porites</i> corals from the northern South China Sea <i>*Chen, Tianran</i>
1455	Assessing GBR water quality compliance using earth observation data <i>*Brando, Vittorio, Thomas Schroeder, Arnold Dekker, Britta Schaffelke, Michelle Devlin</i>

Theme 22: Social, economic & cultural perspectives

1000 – 1445 22A Cultural, political & historical dimensions of coral reef management	
Room	Sebel Kuranda
Chair	Simon Foale
1000	Stateless stakeholders: participation and governance in marine conservation <i>*Clifton, Julian, Greg Acciaoli, Wolfram Dressler, Sarinda Singh, Mike Fabinyi</i>
1015	Strengthening coastal governance by harmonising traditional and 'western' multi-sectoral management <i>*Rupeni, Etika, Clive Wilkinson</i>
1030	Territoriality among small-scale fishers and its implication for coastal resource management <i>*Segi, Shio</i>
1045 – 1115 Morning tea	
1115	Customary marine tenure and contemporary resource management in Solomon Islands <i>*Bennett, Gregory</i>
1130	Mesoamerican Reef Leadership Program: building a generation of conservation leaders <i>Arreola, Maria Eugenia, Sandra Pompa, *Gabriela Nava Martinez</i>
1145	Filling critical socio-economic knowledge gaps in a changing climate <i>*Marshall, Nadine, Erin Bohensky, Joshua Cinner, Margaret Gooch, Paul Marshall, Petina Pert, Colette Thomas, Renae Tobin</i>
1200	Conserving global marine biodiversity: implications for Brazilian public policy <i>*Steiner, Andrea, Marcelo Medeiros, Fernanda Amaral</i>

Friday 13 July Oral presentation program

22A cont.

1215	Use of coral communities as tourist resources in Kushimoto, Japan <i>*Saito, Kumiko</i>
1230	Social and cultural attributes of effective marine adaptive co-management systems <i>*Tawake, Alifereti, James Butler, Bill Aalbersberg, Simon Foale, Helene Marsh, Tim Skewes, Natalie Stoeck</i>
1300 – 1400	Lunch
1400	Media analysis assists long-term monitoring of the Great Barrier Reef <i>*Bohensky, Erin, Adeline Bailly-Vaulont, Margaret Gooch, Nadine Marshall, Petina Pert, Colette Thomas, Renae Tobin</i>
1415	Social factors affecting shark conservation in Belize: a case study <i>*Sabbagh, Stéphanie, Gordon Hickey</i>
1430	Socio-economic value of the shark-diving for small Pacific island nations <i>*Vianna, Gabriel, Mark Meekan, David Pannell, Sally Marsh, Jessica Meeuwig</i>
1445	Local experimentation and negotiation in Lau Lagoon, Solomon Islands <i>Talo, Fred, *Louisa Evans</i>

Friday 13 July Other activities

Exhibition opening hours

0800-1400

Poster presentations

Posters are on display in the hallways adjoining Plenary Hall 2 in the Cairns Convention Centre on the ground floor. Access is along the foyer parallel to the Outdoor Plaza.

Poster Reception: Monday 9 July

The Poster Reception is your opportunity to meet the presenting author and to hear more about their research while enjoying drinks and snacks. The Poster Reception will be held amongst the posters from 1800 – 1930 on Monday 9 July.

Poster identification

Posters are identified with a number which relates to display positioning.

Poster printing

If you need to print your poster, please visit *Copy Shop Business Centre* located at Shop 8, 25 Grafton Street (approximately 200 metres north of Hartley Street). Contact phone number is 4015 1515.

Poster hanging and removal

All poster presenters must hang their poster on Sunday 8 July between 1400–1700. Please collect your posters between 1330–1400 on Friday 13 July so you can re-use them at home. Any uncollected posters will be discarded.

Poster archiving

To see electronic copies of posters, visit <http://www.icrs2012.com> from 16 July 2012.

Poster schedule

Reefs through time

1A Reef & reef island geomorphology

- P001 The complex reef of Rocas Atoll, conceptions of geomorphology, morphodynamics and sedimentology
**Pereira, Natan, Valdir Manso, João Alveirinho Dias, Renê Jota, Adriana Cunha*

1B Reef response to sea-level & environmental changes

- P002 Lithostratigraphic reconstruction in coral sequences (IODP Expeditions 310 and 325)
**Anderson, Louise, Jennifer Inwood, Sally Morgan, Jody Webster, Tania Lado Insua, Sarah Davies*
- P003 Seismic profiling survey on submerged coral reefs south off Okinawa Island in the northwestern Pacific
**Arai, Kohsaku, Tomoyuki Sato, Takahiko Inoue*
- P004 Sea-level induced sea-floor morphologies, Malé Island/Goidhoo Atoll, Republic of Maldives
*Droxler, Andrew W., David F. Naar, Brian T. Donahue, Francois Flury, Mohamed Zuhair, *Brandon Harper*
- P005 Magnetostratigraphic constraints regarding the age of IODP 325 Hole M0058a
**Herrero-Bervera, Emilio, Luigi Jovane*

Palaeontology

2A Pantropical palaeontology of Cenozoic coral reefs

- P006 High-resolution palaeoenvironmental records from Miocene patch reefs from SE-Kalimantan, Indonesia
**Warner, Viola, Wolfgang Müller, THROUGHFLOW members*

2B Coral reefs: is the past the key to the future?

- P007 Transient metazoan reefs in the aftermath of the end-Permian mass extinction
**Brayard, Arnaud, George Stanley, Emmanuelle Vennin, Nicolas Olivier, Kevin Bylund, Jim Jenks, Daniel Stephen, Hugo Bucher, Richard Hofmann, Nicolas Goudemand, Gilles Ecarguel*

- P008 Can flooding rainfall events be revealed in oceanic coral cores?
**Faichney, Iain, Cecily Rasmussen, Chris Cuff*
- P009 Coral reefs environments after the Triassic-Jurassic boundary crisis
**Gretz, Mélanie, Bernard Lathuilière, Rossana Martini*
- P010 Community assembly and dynamics in marine lakes of the western Pacific
**Patris, Sharon, Michael Dawson*

Evolution, biogeography & taxonomy

3A Evolution, biogeography & taxonomy

- P011 Phylogenetic position of *Symbiodinium* in *Zoanthus gigantus*
**Ashworth, Carey*
- P012 Higher level systematics of Holothuroidea
**Miller, Allison, Alexander Kerr*
- P014 The co-speciation between massive corals and gall crabs
**Zayasu, Yuna, Keiichi Nomura, Yoshihisa Shirayama, Hironobu Fukami*

3B Genetically-based species recognition: microbes to vertebrates

- P015 Evidence of reticulate evolution in deep-sea bamboo corals
**Duenas, Luisa, Juan Sanchez*
- P016 Consideration of reticulate evolution on the genus *Palythoa*
**Mizuyama, Masaru, James Davis Reimer*
- P017 Morphological variation and reproductive success of branching *Acropora*
**Yamamoto, Hiromi, Shunsuke Nagata, Go Suzuki, Naoko Isomura*
- P018 *Acropora* corals select preferable *Symbiodinium* clade in early symbiosis stages
**Yamashita, Hiroshi, Go Suzuki, Sayaka Kai, Takeshi Hayashibara, Kazuhiko Koike*

3C The new age of integrated coral taxonomy

- P019 Synopsis of the Family Xenidiidae (Cnidaria: Octocorallia): status and trends
**Janes, Michael, Anita Mary*
- P020 Phylogeny and taxonomy of the genus *Goniopora*
**Kitano, Yuko, Yoshihisa Shirayama, Hironobu Fukami*
- P021 Effects of 2010 coral bleaching on reproductive performance of corals along the eastern coast of Thailand
**Kongjandtre, Narinratana, Suwanna Panutrakul, Anchalee Chankong, Vipoosit Manthachitra*

Poster schedule

- P022 A morphometric and molecular characterization of Hawaiian Leptoseris
*Luck, Daniel
- P023 Coral taxonomy at the crossroads: classification, identification, phylogenetics and the quest for informative characters
*Pichon, Michel
- P024 Delimiting species of *Agaricia* using micromorphological and molecular characters
*Stake, Joel L., Ryan A. Cox
- P025 Revision of the recent solitary mussid *Scolymia* in the Indo-Pacific
*Sugihara, Kaoru, Hiroyuki Tachikawa, Keiichi Nomura, Hironobu Fukami
- P026 Lineage continuity and diversification in *Acropora*: the first 44 million years
*Wallace, Carden, Francesca Bosellini

Biophysical processes

4A Water motion, abiotic & biotic processes on coral reefs

- P027 Effects of climatic events on oceanic currents and connectivity
*Acosta, Alberto, Andrea Corredor-Acosta, Phillipe Gaspar, Beatriz Calmettes
- P028 A numerical model of macro-tidal tropical lagoon: implementation of cross-reef boundary condition
*Chevalier, Cristele, Jean-Luc Devenon, Vincent Rey
- P029 Cost effective technique for measuring relative water movement
*Evans, Scott, David Abdo
- P030 Sea Surface Temperature (SST) comparison from *in situ* and estimation measurement at Cenderawasih Bay, Papua Indonesia
*Purba, Gandi, Thomas Pattiassina, Amelius Mensawan, Mark Erdmann, Christovel Rotinsulu, Marwoto, Elvan Ampou
- P031 Q-IMOS monitoring of currents along the outer Great Barrier Reef
Steinberg, Craig, Felicity McAllister, Paul Rigby, John Luetchford, Gary Brinkman, Chris Bartlett, Richard Brinkman, *Hemerson Tonin, Mike Herzfeld

4B Chemical ecology of coral reef ecosystems

- P032 $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of organic matter sources in New Caledonia
*Marine, Briand, Yves Letourneur, Claire Goiran, Gael Guillou

- P033 Trace element analyses in edible seaweeds from the Kenyan coast
*Chesori, Raphael, David Maina, John Onyari, Daniel Munga
- P035 Feeding preferences of *Diadema antillarum* in the US Virgin Islands
*Harrison, Sarah, Lindsay Spiers, Valerie Paul, Jonathan Craft
- P036 Nitrogen isotope of coral skeletons as a proxy for marine nitrate sources in coral reefs
*Yamazaki, Atsuko, Tsuyoshi Watanabe, Urumu Tsunogai

4C Coral reef response to multiple stresses: organisms to ecosystems

- P037 LAIW as a driving factor for coral reef resistance?
*Buerger, Patrick, Gertraud Schmidt, Somkiat Khokiattiwong, Claudio Richter, Christoph Held
- P038 Cell death in larvae of *Pocillopora damicornis* under thermal stress
Yasuda, Naoko, Dwi Haryant, *Michio Hidaka
- P039 Fluorescent protein content and stress tolerance of a coral
*Nakaema, Sho, Takuya Uchikoshi, Michio Hidaka
- P040 Specific bleaching of *Pocilloporidae* corals in the low water temperature
*Nakano Yoshikatsu
- P041 Reconstruction of land-use change effects using coral skeletal proxies in Ishigaki Island, Japan
*Ohmori, Kazuto, Tsuyoshi Watanabe, Tsuzumi Miyaji, Hitoshi Hasagawa, Mitsunori Ishihara, Kohki Sowa, Hiroya Yamano
- P042 Enzyme activity and metal bioaccumulation of *Montipora digitata* under stressor
*Sasaki, Gaku, Kei Ishikawa, Hiroyuki Fujimura, Tomihiko Higuchi, Casareto Beatriz, Yoshimi Suzuki
- P043 SymbioCoRe: an initiative to promote collaborative coral research
*Serodio, Joao, Joerg C. Frommlet, Ruy K.P. Kikuchi, Miguel C. Leal, William Leggat, David Suggett, Mark E. Warner, Christian Wild
- P044 Experimental response variation among coral species to ocean acidification
*Takahashi, Asami, Haruko Kurihara

Poster schedule

Technologies for coral reef science

5A Remote sensing of reef environments

- P045 Detecting island mass effect through remote sensing
**Elliott, Jennifer, Mark Patterson, Miram Gleiber*
- P046 Spectral discrimination of coral species and habitats in Hong Kong
**Huen, Wing-Kee, Yuanzhi Zhang*
- P047 Benthic habitat mapping at Recife de Fora, Brazil: imagery and GIS
**Sicoli Seoane, Jose Carlos, Clovis Barreira e Castro, Renata Carolina Mikosz Arantes, Catia Fernandes Barbosa*
- P048 SeaWiFS-derived Chl anomaly and related nutrient sources in Queensland continental shelf
**Tran, Van Dien, Albert Gabric, Roger Cropp*
- P049 Mapping of coral reef habitats using WorldView-2 in Abrolhos, Brazil
**Zoffoli, Maria Laura, Milton Kampel, João Antônio Lorenzetti*

Physiology & functional biology

6A Cell & molecular biology of symbiosis

- P050 Cnidarian TSR proteins and their possible role in cnidarian-dinoflagellate symbiosis
*Neubauer, Emilie, *Simon Davy, Virginia Weis*
- P051 Developing *Aiptasia* as a model system: tools for genetic analysis
**Esherick, Lisl, Veena Singla, Tamaki Bieri, John Pringle*
- P052 Determining light harvesting complex expression in *Symbiodinium* during thermal stress
**Gierz, Sarah, Bill Leggat*
- P053 Characterization of VLK protease from *Symbiodinium* sp. strain KB8
**Ichikawa, Yuko, Yuya Suzuki, Koichiro Awai, Yuzo Shioi*
- P054 Use of *Symbiodinium* to study the lipid regulation during the cnidaria-dinoflagellate endosymbiosis
**Jiang, Pei-Luen, Buntora Pasaribu, Chii-Shiang Chen*
- P055 The characters of lipid body dynamic formation during the early coral development
**Li, Hsing-Hui, Chii-Shiang Chen*

- P056 Characterization of peridinin-chlorophyll protein complex of *Symbiodinium* sp. Y106
**Matsuoka, Ryosuke, Hitomi Kobana, Koichiro Awai, Yuzo Shioi*
- P057 FISH-Flow: a quantitative molecular approach for describing populations of *Symbiodinium*
**McIlroy, Shelby, G. Jason Smith, Jonathan Geller*
- P058 Lipid and fatty acid compositions of *Symbiodinium* sp.
**Shioi, Yuzo, Koichiro Awai, Ryosuke Matsuoka,*
- P060 Sulfur utilization by coral-algae endosymbiosis
**Yuyama, Ikuko, Yoshio Takei, Yoshimi Suzuki*

6B Mechanisms of calcification

- P061 Calcification of polyp and accumulation of algae
**Ichikawa, Kazuhiko, Masayuki Hatta*
- P062 Estimate of calcification responses to environmental stresses
**Inoue, Mayuri, Kotaro Shinmen, Hodaka Kawahata, Takashi Nakamura, Yasuaki Tanaka, Aki Kato, Chuya Shinzato, Akira Iguchi, Atsushi Suzuki, Kazuhiko Sakai*
- P063 Possible acceleration of coral growth by low-intensity pulsed ultrasound irradiation
**Kajimoto, Tadamori, Yoshikatsu Nakano*
- P064 A new biomineralization model for coral skeleton from mineralogical observations
**Motai, Satoko, Nagai Takaya, Kohki Sowa, Tsuyoshi Watanabe*
- P065 Coral annual banding occurs in the absence of environmental fluctuations
**Serrano, Benjamin, Eric Tambutté, Sylvie Tambutté, Denis Allemand, Pierre Gilles, Philippe Maurel, Pierre Rigo*
- P066 Intercolony variation of skeletal compositions tested by a culture experiment
*Hayashi, Erika, *Atsushi Suzuki, Takashi Nakamura, Akihiro Iwase, Toyoho Ishimura, Akira Iguchi, Kazuhiko Sakai, Takashi Okai, Mayuri Inoue, Hodaka Kawahata*
- P067 Insight on coral skeletal growth from acidification experiments
**Tambutté, Eric, Michael Holcomb, Alexander Venn, Didier Zoccola, Silke Ruffing, Cédric Patapy, Jean-Pierre Laugier, Nathalie Techer, Natacha Segonds, Sylvie Tambutté*

Poster schedule

6C Coral physiology & energetics

- P069 Role of host and symbionts in coral alkaline phosphatase activity
*Godinot, Claire, *Christine Ferrier-Pagès, Renaud Grover*
- P070 Feeding activity of coral *Pocillopora damicornis* in the Gulf of Thailand
**Kuanui, Pataporn, Se Songploy, Voranop Viyakarn, Makota Omori, Suchana Chavanich*
- P071 *Sarcophyton glaucum* and *Sinularia flexibilis* photosynthesis under different light regimes
**Rocha, Rui, Paulo Cartaxana, Newton Gomes, Ricardo Calado, João Serôdio*

6D Coral physiology under ocean acidification

- P072 Heterotrophic feeding in corals may account for resilience to acidification
**Towle, Erica, Remy Okazaki, Chris Langdon*

Genomic approaches to coral reef biology

7A Genomic approaches to coral reef biology

- P073 Whole genome analyses of the cold-water *Lophelia* coral and related species
**Johansen, Steinar, Ole Morten Seternes, Åse Emblem, Bård Ove Karlsen, Jussi Evertsen, Truls Moum*
- P074 Phylogeny of *Corallimorpharia* (Anthozoa; Cnidaria) based on the mitochondrial genome approaches
**Lin, Mei-Fang, Chaolun Allen Chen, David Miller*
- P075 Genomic insights into coral reproductive endocrinology
*Azofeifa, Joey, Virginia Weis, Pat Chappell, *Jodi Schwarz*
- P076 Coral growth anomaly gene expression of galaxin and oncogene homologs
**Spies, Narrissa, Misaki Takabayashi*

Ocean acidification

8A Organism & ecosystem responses to ocean acidification

- P079 Coral geochemistry as a tool to reconstruct SST and pH, Clipperton Reef
**Dissard, Delphine, Eric Douville, Guy Cabioch, Thierry Corregge, Malcolm McCulloch*

- P080 Calcification responses to ocean acidification of reef foraminifers
**Hikami, Mana, Hiroyuki Ushie, Takahiro Irie, Kazuhiko Fujita, Azumi Kuroyanagi, Kazuhiko Sakai, Yukihiro Nojiri, Atsushi Suzuki, Hodaka Kawahata*
- P081 Controls on calcification rates of coralline algae in Western Australia
**Short, Jessie, Taryn Foster, James Falter, Malcolm McCulloch*

8D Effects of ocean acidification

- P082 Coral reef calcifiers under elevated CO₂ and organic matter availability
**Meyer, Friedrich W., Karen Diele, Andreas Kunzmann, Mirta Teichberg, Christian Wild*

8E Growth records in coral cores

- P083 Growth of Australian corals in the Anthropocene: all quiet on the western front
**Cooper, Timothy, Rebecca O'Leary, Janice Lough*
- P084 High-resolution analysis of daily growth bands in giant clams
*Isaji, Ayaka, Ryuji Asami, Hideko Takayanagi, *Yasufumi Iryu*
- P085 No sympathetic temporal trends of temperate coral calcification rate
**Kohki, Sowa, Watanabe Tsuyoshi*
- P086 Salinity effect on skeletal chemical composition in cultured zooxanthellate corals
**Pretet, Chloé, Stéphanie Reynaud, Christine Ferrier-Pagès, Jean-Pierre Gattuso, Balz Kamber, Elias Samankassou*
- P087 Evaluation of amino acid racemization variability in Quaternary corals
**Van Ee, Noelle, Katherine E. Cooper, Darrell Kaufman, Peter Swart, Gregor Eberli*

Climate change & bleaching

9A Coral bleaching & climate change

- P088 Molecular response associated with thermal tolerance in the reef-building coral *Acropora millepora*
**Bellantuono, Anthony J., Camila Granados-Cifuentes, Ove Hoegh-Guldberg, David J. Miller, Mauricio Rodriguez-Lanetty*
- P090 Remote sensing and *in situ* investigation of coral bleaching around Zhongjian Island
**Chen Yongqiang, Qiang Xie, Hui Huang*

Poster schedule

- P091 Analysis of coral tolerance to the effects of climate change
**DeJoseph, Bonnie*
- P092 Bleaching of the fire corals *Millipora*
**Fitt, William*
- P093 Increased number of mucocytes in *Aiptasia pallida* following heat-induced bleaching
**Fransolet, David, Anne-Catherine Herman, Stephane Roberty, Jean-Christophe Plumier*
- P094 Changes in biochemistry of the coral symbiosis by vibrational spectroscopy
**Howes, Johanna, Peter Ralph, Barbara Stuart*
- P095 Multiple disturbances cause significant mortality of Ningaloo Reef corals
**Moore, James, Martial Depczynski, Shaun Wilson, Tom Holmes, Paul Tinkler, Heather Taylor, Andrew Heyward*
- P096 Comparing recruitment of *Pocillopora damicornis* affected by the bleaching event
**Pengsakun, Sittiporn, Makamas Sutthacheep, Thamasak Yeemin*
- P097 Increased cell proliferation in *Seriatopora hystrix* following heat-induced bleaching
*Fransolet, David, Aurélie Ugille, Julien Leblud, Stéphane Roberty, Philippe Grosjean, *Jean-Christophe Plumier*
- P098 Oxidative stress-related gene expression in juvenile *Acropora millepora* corals
**Rocker, M.M., B.L. Willis, L.K. Bay*

9B Coral communities in extreme environments

- P099 Coral resilience to extreme tidal induced environmental fluctuations
**Dandan, Sana, Ryan Lowe, James Falter, Malcolm McCulloch*
- P100 Comparing coral species composition between man-made and natural backreef pools
*Anderson Tagarino, Kelley, Fa'asalafa Kitiona, Anthony Sagapolutele, *Natasha Ripley*

9C Ecology of mesophotic coral reefs

- P101 Importance of the coral genus *Leptoseris* to mesophotic coral communities in the Indo-Pacific
*Bongaerts, Pim, Tom Bridge, *Zena Dinesen, Sam Kahng, Daniel Luck*

Modelling reef futures

10A Modelling reef futures

- P102 QUAntifying Risk to Tropical Reefs ('QUARTR')
**Jones, Nancy, Andy Ridgwell, Erica Hendy*

Ecological dynamics, resilience & phase shifts

11A Ecology & macroecology

- P103 Stability of protected Bêche-de-mer populations, inferences on curryfish fishery sustainability
*Eriksson, Hampus, Benjamin V. Thorne, *Maria Byrne*
- P104 Contributions of octopuses to reef structure
**Gilchrist, Sandra*
- P105 Structure and spatial distribution of coral plain communities in the Gulf of Uraba, Colombia
**Gonzalez, Cindy, Alberto Ramirez*
- P107 Population dynamics of four unique *Acropora cervicornis* populations
**Larson, Elizabeth, David Gilliam, Brian Walker, Alison Moulding*

11B Phase shifts & alternative states on coral reefs

- P108 *Acropora cervicornis* in Belize: is staghorn coral coming back?
**Greer, Lisa, Matt Benson, H. Allen Curran, William Sullivan*

11C Seaweed-coral competition

- P109 Coral-algae interactions in Singapore reefs
**Baula, Iris, Tsai Min Sin*

11D The boom & bust of urchins & starfish

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- Mesopelagic Fish
- Coastal Meteorology/Air-Sea Interaction
- Red Sea Hydrography and Oceanography
- Red Sea Biogeographic Information System (RBIS)
- Field Work for Marine Science Courses



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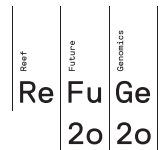
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