

Coordinating Lead Authors, Lead Authors, and Review Editors

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PART A: GLOBAL AND SECTORAL ASPECTS

Context for the AR5

Role	Name	Institution	Country/Organization
Ch. 1 — Point of departure			
CLA	Avelino G. Suarez	Institute of Ecology and Systematics, Cuban Environmental Agency	Cuba
CLA	Gary Yohe	Wesleyan University	USA
LA	Marco Bindi	University of Florence	Italy
LA	Cecilia Conde	Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de México	Mexico
LA	William Hare	Potsdam Institute for Climate Impact Research	Germany
LA	Rupa Mukerji	Intercooperation Social Development India	India
LA	Michael Prather	University of California, Irvine	USA
LA	Asuncion Lera St.Clair	University of Bergen	Norway
RE	Hervé Le Treut	Laboratoire de Météorologie Dynamique / Institut Pierre Simon Laplace	France
RE	Jean Palutikof	Griffith University	Australia
Ch. 2 — Foundations for decisionmaking			
CLA	Roger Jones	Victoria University	Australia
CLA	Anand Patwardhan	Indian Institute of Technology-Bombay	India
LA	Stewart Cohen	Environment Canada	Canada
LA	Suraje Dessai	University of Exeter	UK
LA	Annamaria Lammel	Université Paris 8	France
LA	Robert Lempert	RAND Corporation	USA
LA	Monirul Mirza	Environment Canada	Canada
LA	Hans von Storch	GKSS Research Centre	Germany
RE	Rosina Bierbaum	University of Michigan	USA
RE	Nicholas King	Global Biodiversity Information Facility	South Africa

*Additional members may be added by the Working Group II Bureau for teams without the full complement of Lead Authors and Review Editors

**CLA = Coordinating Lead Author, LA=Lead Author, RE=Review Editor

WGII AR5 Chapter Teams

Natural and Managed Resources and Systems, and Their Uses

Role	Name	Institution	Country/Organization
Ch. 3 — Freshwater resources			
CLA	Blanca Jimenez	Universidad Nacional Autónoma de México	Mexico
CLA	Taikan Oki	University of Tokyo	Japan
LA	Nigel Arnell	University of Reading	UK
LA	Gerardo Benito	Spanish Council for Scientific Research	Spain
LA	J. Graham Cogley	Trent University	Canada
LA	Petra Doell	Goethe University Frankfurt	Germany
LA	Tong Jiang	China Meteorological Administration	China
LA	Shadrack S. Mwakalila	University of Dar es Salaam	United Republic of Tanzania
RE	Pavel Kabat	Wageningen University and Research Centre	Netherlands
Ch. 4 — Terrestrial and inland water systems			
CLA	Robert Scholes	Council for Scientific and Industrial Research	South Africa
CLA	Josef Settele	Helmholtz Centre for Environmental Research	Germany
LA	Richard Betts	Met Office Hadley Centre	UK
LA	Stuart Bunn	Griffith University	Australia
LA	Paul Leadley	Universite Paris-Sud 11	France
LA	Daniel Nepstad	Woods Hole Research Center	USA
LA	Jonathan Overpeck	University of Arizona	USA
LA	Miguel Angel Taboada	Instituto Nacional de Tecnología Agropecuaria	Argentina
RE	Andreas Fischlin	ETH Zurich, Systems Ecology	Switzerland
RE	José Moreno	University of Castilla - La Mancha	Spain
RE	Terry L. Root	Stanford University	USA
Ch. 5 — Coastal systems and low-lying areas			
CLA	Iñigo J. Losada	Universidad de Cantabria	Spain
CLA	Poh Poh Wong	National University of Singapore	Singapore
LA	Jean-Pierre Gattuso	Centre National de la Recherche Scientifique	France
LA	Abdellatif Khattabi	Ecole Nationale Forestiere d'Ingénieurs	Morocco
LA	Susanne Moser	Susanne Moser Research & Consulting	USA
LA	Yoshiki Saito	National Institute of Advanced Industrial Science and Technology	Japan
LA	Asbury Sallenger	U.S. Geological Survey	USA
LA	Anond Snidvongs	Chulalongkorn University	Thailand
RE	Robert Nicholls	University of Southampton	UK
RE	Filipe Santos	University of Lisbon	Portugal

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Role	Name	Institution	Country/Organization
Ch. 6 — Ocean systems			
CLA	David Karl	University of Hawaii	USA
CLA	Hans-O. Pörtner	Alfred-Wegener-Institute for Polar and Marine Research	Germany
LA	Phil Boyd	National Institute of Water and Atmosphere	New Zealand
LA	Salvador Lluch-Cota	Centro de Investigaciones Biológicas del Noroeste, S.C.	Mexico
LA	Yukihiro Nojiri	National Institute for Environmental Studies	Japan
LA	Daniela Schmidt	University of Bristol	UK
LA	Peter Zavialov	P.P. Shirshov Institute of Oceanology	Russian Federation
RE	Kenneth Drinkwater	Institute of Marine Research	Norway
RE	Alexander Polonsky	Marine Hydrophysical Institute of National Academy of Sciences	Ukraine
Ch. 7 — Food production systems and food security			
CLA	John R Porter	University of Copenhagen	Denmark
CLA	Liyong Xie	Shenyang Agricultural University	China
LA	Andrew Challinor	University of Leeds	UK
LA	Kevern Cochrane	Food and Agriculture Organization	FAO
LA	Mark Howden	Commonwealth Scientific and Industrial Research Organization	Australia
LA	Muhammad Mohsin Iqbal	Global Change Impact Studies Centre	Pakistan
LA	David Lobell	Stanford University	USA
LA	María Isabel Travasso	Instituto Nacional de Tecnología Agropecuaria	Argentina
RE	Pramod Aggarwal	Indian Agricultural Research Institute, New Delhi	India
RE	Kaija Hakala	MTT Agrifood Research Finland	Finland

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Human Settlements, Industry, and Infrastructure

Role	Name	Institution	Country/Organization
Ch. 8 — Urban Areas			
CLA	Aromar Revi	Indian Institute for Human Settlements	India
CLA	David Satterthwaite	International Institute for Environment and Development	UK
LA	Fernando Aragon	El Colegio de la Frontera Sur	Mexico
LA	Jan Corfee-Morlot	Organisation for Economic Co-operation and Development	USA / OECD
LA	Robert B. R. Kiunsi	Ardhi University	United Republic of Tanzania
LA	Mark Pelling	King's College London	UK
LA	Debra Roberts	Ethekwini Municipality	South Africa
LA	William Solecki	City University of New York	USA
RE	John Balbus	National Institute of Environmental Health Sciences	USA
RE	Omar-Dario Cardona	Universidad Nacional de Colombia	Colombia
Ch. 9 — Rural Areas			
CLA	Purnamita Dasgupta	Institute of Economic Growth	India
CLA	John Morton	Natural Resources Institute, University of Greenwich	UK
LA	David Dodman	International Institute for Environment and Development	Jamaica
LA	Baris Karapinar	University of Bern	Switzerland
LA	Francisco Meza	Pontificia Universidad Catolica de Chile	Chile
LA	Marta Rivera-Ferre	Autonomous University of Barcelona	Spain
LA	Aissa Toure Sarr	Sahara and Sahel Observatory	Senegal
LA	Katharine Vincent	Kulima Integrated Development Solutions (Pty) Ltd and University of the Witwatersrand, Johannesburg	South Africa
RE	Habib Amamou	Ministry of Agriculture, Water Resources and Fisheries	Tunisia
RE	Edward Carr	University of South Carolina	USA
Ch. 10 — Key economic sectors and services			
CLA	Douglas Arent	National Renewable Energy Laboratory	USA
CLA	Richard S.J. Tol	Vrije Universiteit Amsterdam	Netherlands
LA	Eberhard Faust	Munich Reinsurance Company	Germany
LA	Joseph P. Hella	Sokoine University of Agriculture	Tanzania
LA	Surender Kumar	TERI University	India
LA	Ken Strzepek	UNU - World Institute for Development Economics Research	UNU / USA
LA	Ferenc L. Tóth	International Atomic Energy Agency	IAEA / Hungary
LA	Denghua Yan	China Institute of Water Resources and Hydropower Research	China
RE	Amjad Abdulla	Ministry of Environment, Energy and Water	Maldives
RE	Haroon Kheshgi	ExxonMobil Corporate Strategic Research	USA
RE	He Xu	Center for Strategic Environmental Assessment, Nankai University	China

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Human Health, Well-Being, and Security

Role	Name	Institution	Country/Organization
Ch. 11 — Human health			
CLA	Rita Colwell	University of Maryland College Park	USA
CLA	Alistair Woodward	University of Auckland	New Zealand
LA	Dave Chadee	University of the West Indies	Trinidad and Tobago
LA	Yasushi Honda	University of Tsukuba	Japan
LA	Qiyong Liu	National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention	China
LA	Jane Mukarugwiza Olwoch	CFES, Department of Geography, Geo-informatics & Meteorology, University of Pretoria	South Africa
LA	Boris Revich	Institute of Forecasting Russian Academy of Science	Russian Federation
LA	Rainer Sauerborn	Umeå University	Sweden
LA	Kirk Robert Smith	University of California, Berkeley	USA
RE	Ulisses Confalonieri	Oswaldo Cruz Foundation	Brazil
RE	Andrew Haines	London School of Hygiene and Tropical Medicine	UK
Ch. 12 — Human security			
CLA	Neil Adger	Tyndall Centre for Climate Change Research, University of East Anglia	UK
CLA	Juan Pulhin	University of the Philippine Los Baños	Philippines
LA	Jonathon Barnett	University of Melbourne	Australia
LA	Geoff Dabelko	Woodrow Wilson International Center for Scholars	USA
LA	Grete Hovelsrud	Center for International Climate and Environmental Research - Oslo	Norway
LA	Rajeswar Jonnalagadda	Centre for Climate Change and Environment Advisory; Dr. MCR HRD Institute of AP	India
LA	Marc Levy	Columbia University	USA
LA	Ursula Oswald-Spring	Centro Regional de Investigaciones Multidisciplinarias, Universidad Nacional Autónoma de México	Mexico
RE	Paulina Aldunce	University of Chile	Chile
RE	Robin Leichenko	Rutgers University	USA
Ch. 13 — Livelihoods and poverty			
CLA	Lennart Olsson	Lund University	Sweden
CLA	Maggie Opondo	University of Nairobi, Kenya	Kenya
LA	Arun Agrawal	University of Michigan	USA
LA	Siri Eriksen	Norwegian University of Life Sciences	Norway
LA	Shiming Ma	Institute of Environment and Sustainable Development in Agriculture	China
LA	Tom Mitchell	Overseas Development Institute	UK
LA	Petra Tschakert	Pennsylvania State University	USA
LA	Sumaya Zakiideen	Khartoum University	Sudan
RE	Rita Sharma	Retired Secretary to Government of India	India
RE	Etienne Piguet	University of Neuchatel	Switzerland

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Adaptation

Role	Name	Institution	Country/Organization
Ch. 14 — Adaptation needs and options			
CLA	Saleemul Huq	International Institute for Environment and Development	Bangladesh
CLA	Ian Noble	The World Bank	Australia
LA	Yury Anokhin	Institute of Global Climate and Ecology	Russian Federation
LA	JoAnn Carmin	Massachusetts Institute of Technology	USA
LA	Dieudonne Goudou	High Commission of Niger Valley Development	Niger
LA	Felino Lansigan	University of the Philippine Los Baños	Philippines
LA	Balgis Osman-Elasha	African Development Bank	Sudan
LA	Alicia Villamizar	Universidad Simón Bolívar	Venezuela
RE	Anthony Patt	International Institute for Applied Systems Analysis	Austria
RE	Kuniyoshi Takeuchi	International Centre for Water Hazard and Risk Management	Japan
Ch. 15 — Adaptation planning and implementation			
CLA	Nobuo Mimura	Ibaraki University	Japan
CLA	Roger Pulwarty	National Oceanic and Atmospheric Administration	USA
LA	Do Minh Duc	Hanoi University of Science	Vietnam
LA	Ibrahim Elshinnawy	National Water Research Center, Egypt	Egypt
LA	He-Qing Huang	Chinese Academy of Sciences	China
LA	Margaret Hiza Redsteer	U.S. Geological Survey	USA
LA	Johnson Ndi Nkem	United Nations Development Programme	Cameroon
LA	Roberto A. Sanchez Rodriguez	El Colegio de la Frontera Norte	Mexico
RE	Richard Moss	Joint Global Change Research Institute – Pacific Northwest National Laboratory	USA
RE	Walter Vergara	The World Bank	The World Bank

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Role	Name	Institution	Country/Organization
Ch. 16 — Adaptation opportunities, constraints, and limits			
CLA	Richard Klein	Stockholm Environment Institute	Sweden
CLA	Guy Midgley	South African National Biodiversity Institute	South Africa
LA	Mozaharul Alam	United Nations Environment Programme	Bangladesh
LA	Frans Berkhout	VU University	Netherlands
LA	Kirstin Dow	University of South Carolina / Carolinas RISA	USA
LA	Yu'e Li	Chinese Institute of Environment and Sustainable Development in Agriculture	China
LA	Elena Mateescu	National Meteorological Administration	Romania
LA	Benjamin Preston	Oak Ridge National Laboratory	USA
LA	Rebecca Shaw	The Nature Conservancy	USA
RE	Habiba Gitay	The World Bank	Australia
RE	James Thurlow	United Nations University's World Institute for Development Economics Research	South Africa
Ch. 17 — Economics of adaptation			
CLA	Muyeye Chambwera	International Institute for Environment and Development	Zimbabwe
CLA	Geoff Heal	Columbia Business School	USA
LA	Carolina Dubeux	Federal University of Rio de Janeiro	Brazil
LA	Stephane Hallegatte	CIREN and Meteo-France	France
LA	Liza Leclerc	Independent Consultant	Canada
LA	Anil Markandya	Basque Centre for Climate Change	Spain
LA	Bruce McCarl	Texas A&M University	USA
LA	Reinhard Mechler	International Institute for Applied Systems Analysis	Austria
LA	James Neumann	Industrial Economics, Incorporated	USA
RE	Eduardo Calvo	Universidad Nacional Mayor de San Marcos	Peru
RE	Ana Iglesias	Polytechnic University of Madrid	Spain
RE	Stale Navrud	Norwegian University of Life Sciences	Norway

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Multi-Sector Impacts, Risks, Vulnerabilities, and Opportunities

Role	Name	Institution	Country/Organization
Ch. 18 — Detection and attribution of observed impacts			
CLA	Wolfgang Cramer	Potsdam Institute for Climate Impact Research	Germany
LA	Maximilian Auffhammer	University of California, Berkeley	USA
LA	Christian Huggel	University of Zurich	Switzerland
LA	Ulf Molau	University of Gothenburg	Sweden
LA	Maria Assuncao Silva Dias	University of Sao Paulo	Brazil
LA	Andrew Solow	Woods Hole Oceanographic Institution	USA
LA	Dáithí Stone	University of Cape Town	Canada / South Africa
LA	Lourdes Tibig	The Manila Observatory	Philippines
RE	Rik Leemans	Wageningen Univeristy	Netherlands
RE	Bernard Seguin	Institut National de la Recherche Agronomique	France
RE	Neville Smith	Bureau of Meteorology	Australia
Ch. 19 — Emergent risks and key vulnerabilities			
CLA	Maximiliano Campos	Organization of American States	Costa Rica
CLA	Michael Oppenheimer	Princeton University	USA
LA	Joern Birkmann	United Nations University - Institute for Environment and Human Security	Germany
LA	Wendy B Foden	International Union for Conservation of Nature	South Africa
LA	George Luber	Centers for Disease Control and Prevention	USA
LA	Brian O'Neill	National Center for Atmospheric Research	USA
LA	Kiyoshi Takahashi	National Institute for Environmental Studies	Japan
LA	Rachel Warren	University of East Anglia	UK
RE	Mike Brklacich	Carleton University	Canada
RE	Sergey Semenov	Institute of Global Climate and Ecology	Russian Federation
Ch. 20 — Climate-resilient pathways: adaptation, mitigation, and sustainable development			
CLA	Fatima Denton	International Development Research Centre	Gambia
CLA	Thomas Wilbanks	Oak Ridge National Laboratory	USA
LA	Achala Chandani Abeysekara	The Open University of Sri Lanka	Sri Lanka
LA	Ian Burton	University of Toronto	Canada
LA	Qingzhu Gao	Chinese Institute of Environment and Sustainable Development in Agriculture	China
LA	Maria Carmen Lemos	University of Michigan	USA
LA	Toshihiko Masui	National Institute for Environmental Studies	Japan
LA	Karen O'Brien	University of Oslo	Norway
LA	Koko Warner	United Nations University - Institute for Environment and Human Security	Germany
RE	Suruchi Bhadwal	The Energy and Resources Institute	India
RE	Walter Leal	Hamburg University of Applied Sciences	Germany
RE	Jean-Pascal van Ypersele	Université Catholique de Louvain	Belgium

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PART B: REGIONAL ASPECTS

Role	Name	Institution	Country/Organization
Ch. 21 — Regional context			
CLA	Bruce Charles Hewitson	University of Cape Town	South Africa
CLA	Anthony Janetos	Pacific Northwest National Laboratory	USA
LA	Timothy Carter	Finnish Environment Institute	Finland
LA	Filippo Giorgi	Abdus Salam International Centre for Theoretical Physics	Italy
LA	Richard Jones	Met Office Hadley Centre	UK
LA	Won-Tae Kwon	National Institute of Meteorological Research	Republic of Korea
LA	Linda Mearns	National Center for Atmospheric Research	USA
LA	Lisa Schipper	Stockholm Environment Institute	Sweden
LA	Maarten van Aalst	Red Cross / Red Crescent Climate Centre	Netherlands
RE	Tom Downing	Global Climate Adaptation Partnership	USA
RE	Phil Duffy	Climate Central, Inc.	USA

Regional Chapters

Role	Name	Institution	Country/Organization
Ch. 22 — Africa			
CLA	Isabelle Niang	University Cheikh Anta Diop of Dakar	Senegal
CLA	Oliver Ruppel	University of Namibia	Namibia
LA	Mohamed Abdrabo	Institute of Graduate Studies and Research, University of Alexandria	Egypt
LA	Ama Essel	Korle-Bu Teaching Hospital / University of Ghana Medical School	Ghana
LA	Papa Demba Fall	University Cheikh Anta Diop of Dakar, Institut Fondamental d'Afrique Noire	Senegal
LA	Fatou Ndeye Gaye	Ministry of Forestry and Environment	Gambia
LA	Nsalambi Nkongolo	Lincoln University of Missouri	Democratic Republic of the Congo
LA	Marie-Louise Rakotondrafara	Madagascar National Weather Service	Madagascar
RE	Pauline Dube	University of Botswana	Botswana
RE	Neil Leary	Dickinson College	USA

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Role	Name	Institution	Country/Organization
Ch. 23 — Europe			
CLA	Sari Kovats	London School of Hygiene and Tropical Medicine	UK
CLA	Riccardo Valentini	University of Tuscia and Euro-Mediterranean Center for Climate Change	Italy
LA	Laurens Bouwer	Vrije Universiteit Amsterdam	Netherlands
LA	Elena Georgopoulou	National Observatory of Athens	Greece
LA	Daniela Jacob	Climate Service Center, Hamburg	Germany
LA	Eric Martin	Meteo-France	France
LA	Mark Rounsevell	University of Edinburgh	UK
LA	Jean-Francois Soussana	French National Institute for Agriculture, Food and Environment Research	France
RE	Lucka Kajfez Bogataj	University of Ljubljana	Slovenia
RE	Roman Corobov	Independent Researcher	Republic of Moldova
RE	Joan O. Grimalt	Spanish Council for Scientific Research	Spain
Ch. 24 — Asia			
CLA	Yasuaki Hijioka	National Institute for Environmental Studies	Japan
CLA	Erda Lin	Agro-environment and Sustainable Development Institute	China
CLA	Joy Jacqueline Pereira	Universiti Kebangsaan Malaysia	Malaysia
LA	Richard Corlett	National University of Singapore	Singapore
LA	Xuefeng Cui	Beijing Normal University	China
LA	Gregory Insarov	Institute of Geography of the Russian Academy of Sciences	Russian Federation
LA	Rodel Lasco	World Agroforestry Center	Philippines
LA	Elisabet Lindgren	Karolinska Institutet	Sweden
LA	Akhilesh Surjan	United Nations University	India
RE	Rosa Perez	Manila Observatory	Philippines
RE	Kazuhiko Takeuchi	United Nations University	Japan
Ch. 25 — Australasia			
CLA	Roger Kitching	Griffith University	Australia
CLA	Andy Reisinger	Victoria University of Wellington	New Zealand
LA	Francis Chiew	Commonwealth Scientific and Industrial Research Organization - Land and Water	Australia
LA	Lesley Hughes	Macquarie University	Australia
LA	Paul Newton	AgResearch	New Zealand
LA	Sandra Schuster	Munich Reinsurance Company	Australia
LA	Andrew Tait	National Institute of Water and Atmosphere	New Zealand
LA	Penny Whetton	Commonwealth Scientific and Industrial Research Organization - Marine and Atmospheric Research	Australia
RE	Blair Fitzharris	University of Otago	New Zealand
RE	David Karoly	University of Melbourne	Australia

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Role	Name	Institution	Country/Organization
Ch. 26 — North America			
CLA	Patricia Romero Lankao	National Center for Atmospheric Research	Mexico
CLA	Joel Smith	Stratus Consulting Inc.	USA
LA	Noah Diffenbaugh	Stanford University	USA
LA	Carlos Gay-Garcia	Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de México	Mexico
LA	Preston Hardison	Tulalip Tribes of Washington	USA
LA	Patrick Kinney	Columbia University Mailman School of Public Health	USA
LA	Paul Kirshen	Battelle Memorial Institute	USA
LA	Paul Kovacs	Institute for Catastrophic Loss Reduction	Canada
LA	Barry Smit	University of Guelph	Canada
RE	Ana Rosa Moreno	School of Medicine, Universidad Nacional Autónoma de México	Mexico
RE	Linda Mortsch	Environment Canada	Canada
Ch. 27 — Central and South America			
CLA	Graciela Odilia Magrin	Instituto Nacional de Tecnología Agropecuaria	Argentina
CLA	Carlos Nobre	National Institute for Space Research	Brazil
LA	Jean-Phillipe Boulanger	Institut de Recherche pour le Développement	France
LA	Marcos Buckeridge	University of Sao Paulo	Brazil
LA	Edwin Castellanos	Universidad del Valle de Guatemala	Guatemala
LA	Germán Poveda	Universidad Nacional de Colombia	Colombia
LA	Fabio Scarano	Conservation International	Brazil
LA	Sebastian Vicuna	Pontificia Universidad Católica de Chile	Chile
RE	Leonidas Osvaldo Girardin	Fundación Bariloche	Argentina
RE	Jean Ometto	National Institute for Space Research	Brazil
Ch. 28 — Polar Regions			
CLA	Oleg Anisimov	State Hydrological Institute	Russian Federation
CLA	Joan Nymand Larsen	Stefansson Arctic Institute	Iceland
LA	Anne Hollowed	National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Alaska Fisheries Science Center	USA
LA	Nancy Maynard	NASA Goddard Space Flight Center	USA
LA	Pål Prestrud	Centre for Climate Research in Oslo	Norway
LA	Terry Prowse	Environment Canada and University of Victoria	Canada
LA	John Stone	Carleton University	Canada
RE	Maria Ananicheva	Institute of Geography	Russian Federation
RE	Terry Chapin	University of Alaska Fairbanks	USA

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Role	Name	Institution	Country/Organization
Ch. 29 — Small Islands			
CLA	Roger McLean	University of New South Wales	Australia
CLA	Leonard Nurse	University of the West Indies	Barbados
LA	John Agard	University of the West Indies	Trinidad and Tobago
LA	Lino Pascal Briguglio	Islands and Small States Institute, University of Malta	Malta
LA	Rolph Payet	University of Seychelles	Seychelles
LA	Netatua Pelesikoti	Secretariat of the Pacific Regional Environment Programme	Samoa
LA	Emma Tompkins	Sustainability Research Institute	UK
LA	Arthur Webb	Pacific Islands Applied Geoscience Commission	Fiji
RE	Thomas Spencer	University of Cambridge	UK
RE	Kazuya Yasuhara	Ibaraki University	Japan
Ch. 30 — Open Oceans			
CLA	Rongshuo Cai	Third Institute of Oceanography, Chinese State Oceanic Administration	China
CLA	Ove Hoegh-Guldberg	University of Queensland	Australia
LA	Peter G. Brewer	Monterey Bay Aquarium Research Institute	USA
LA	Victoria J. Fabry	California State University, San Marcos	USA
LA	Karim Hilmi	National Institute of Fisheries Research	Morocco
LA	Sukgeun Jung	National Fisheries Research & Development Institute	Republic of Korea
LA	Svein Sundby	Institute of Marine Research	Norway
RE	Ly Omar	Environment and Fisheries Department / INGESAHEL-sa	Senegal
RE	Carol Turley	Plymouth Marine Laboratory	EC