

## Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects

### LISTS OF MEMBERS OF WRITING TEAMS OF THE THIRD WORLD OCEAN ASSESSMENT (WOA III)

#### Section 1: Overall Summary

This chapter will be prepared collectively by the Group of Experts of the Regular Process

#### Section 2: Approach to Assessment

This chapter will be produced by a sub-group of the Group of Experts, with the help of the secretariat.

Section 3: A global overview of ocean governance				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Mariamalia Rodríguez	Costa Rica	Programme coordinator - DOALOS/Norway programmes of assistance to meet the strategic capacity needs of developing states in the field of ocean governance and the law of the sea. Post-Doctoral Research Fellow, World Maritime University - Sasakawa Global Ocean Institute. Empowering Women for the United Nations Decade of Ocean Science for Sustainable Development Project. Consultant for the Pew Charitable Trust		F
<b>Co-Lead Members</b>				
Enrique Marschoff	Argentina	Argentine Representative to the Scientific Committee for the Conservation of Antarctic Marine Living Resources and its Working Groups from 1985 to date. Elected member of the 9 person CCAMLR Performance Review Panel.		M

		Advisor to the Secretaria de Pesca on the implementation of the CDS and to the Argentine Parliament in the drafting of the Law on Antarctic Fisheries		
<b>Coordinating Author</b>				
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Paul Foley	Canada	Associate Professor, Memorial University of Newfoundland	Ocean governance (sustainability, fisheries, etc) from anthropology perspective	M
Senia Febrica	Indonesia	School of Global Affairs, Lancaster University, UK and Segara Nusa Nawasena, Indonesia	Ocean governance / fisheries / Maritime security / Indo-Pacific	F
Youngdawnng Moh	Republic of Korea	Senior Researcher, KIOST	Ocean governance/ deep seabed mining	M
Michelle Scobie	Trinidad and Tobago	Professor, International Relations and Global Environmental Governance, University of West Indies	Regional ocean governance/Carribeans	F
Vonintsoa Rafaly	Madagascar	Postdoctoral researcher, University of Copenhagen	Ocean governance	F
Sarra Sefrioui	Morocco	Associate Professor, Université AbdelMk Essaâdi	Ocean governance	F
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Section 4: Change since the Second World Ocean Assessment				
Chapter 1: Drivers				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Jörn Schmidt	Germany	Chair of the Science Committee International Council for the Exploration of the Sea Senior Research Fellow, Marine Food Security Center for Ocean and Society (CEOS) Kiel Marine Science (KMS), Christian-Albrechts-Universität zu Kiel, Germany		M
<b>Co-Lead Members</b>				
Chang-Ik Zhang	Republic of Korea	Professor, World Fisheries University Professor Emeritus, Pukyong University		M
<b>Coordinating Author</b>				
Michael Elliott	UK	Professor, University of Hull UK	Marine and estuarine ecology, human impacts, marine and estuarine management and policy	M
<b>Members of the writing team</b>				
Angel Borja	Spain	Principal Investigator, AZTI	Marine ecology, benthic ecology, ecosystem-based management, marine assessment ( <a href="https://scholar.google.co.uk/citations?user=U6gHv0cAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.co.uk/citations?user=U6gHv0cAAAAJ&amp;hl=en&amp;oi=ao</a> )	M
Thomas Therriault	Canada	Research Scientist, Dept. Fisheries & Oceans Canada	Conservation biology, marine biology, invasive species ( <a href="https://www.researchgate.net/profile/Thomas-Therriault">https://www.researchgate.net/profile/Thomas-Therriault</a> )	M
Bruce Glavovic	New Zealand	Professor, Massey University	Post-disaster recovery, risk governance, coastal governance ( <a href="https://scholar.google.com/citations?user=MT5-Yd4AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=MT5-Yd4AAAAJ&amp;hl=en</a> )	M
Thomas Maes	Belgium	Senior Scientist, SEAMOHT Ltd	Marine litter, microplastics, POP, ecotoxicology ( <a href="https://scholar.google.com/citations?user=">https://scholar.google.com/citations?user=</a>	M

			XtywINYAAAAJ&hl=en)	
Razieh Ghayoumi	Iran	Research Officer (Biodiversity), Department of Environment, Tehran, Iran	Expertise in research related to aquatic species, ecosystems and sediment contaminated by heavy metals	F

Section 4: Change since the Second World Ocean Assessment				
Chapter 2: Scientific understanding				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
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Co-Lead Members				
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Members of the writing team				
Pavane Annasawmy	Mauritius	Fondation pour la Recherche sur la Biodiversité	Deep sea ecosystems, Seamounts and similar submarine features	F
Sophie Arnaud- Haond	France	Researcher, French Research Institute for Exploitation of the Sea (Ifremer)	Abyssal plains	F
Michéle Baqués	Argentina	Project Leader, Servicio de Hidrografia Naval (SHN), Dirección de Investigación de la Armada (DIIV) & UNIDEF/CONICET (Ministry of Defense), Buenos Aires, Argentina	Physical oceanography, boundary currents	F
Jahson Berhane Alemu	Trinidad and Tobago	Research Assistant Professor, Stokes School of Marine and Environmental Sciences, University of South Alabama, Mobile, Alabama	Carbon sequestration and storage, Marine and coastal ecosystem-based management	M
Robert Blasiak	USA	Human Ocean Theme, Stockholm Resilience Centre, Stockholm University	Marine genetic resources	M
Nene Bi Tra Boniface	Cote d'Ivoire	Mapping and Offshore Environment Department at Ministry of Petroleum, Energy and Renewable Energies,	Marine geology and geophysics	M

		Head of the department		
Ian Butler	Australia	Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), Department of Agriculture, Water and the Environment	Benthic ecology, Fisheries management	M
Ralf Doering	Germany	Team leader of the economics unit, Thuenen-Institute of Sea Fisheries, Bremerhaven	Fishery economy, Impact assessment of fishery management options	M
Erinosho Bolanle	Nigeria	Senior Lecturer, University of Derby	Alteration of oceanographic processes	F
Luigi Jovane	Italy	Professor, Instituto Oceanográfico da Universidade de São Paulo, Praça do Oceanográfico, 191 - São Paulo, SP 05508-120, Brazil	Paleomagnetism, Geomagnetism, Marine Geology and Geophysics, Spectral Analysis and Astronomical Calibration, Paleoceanography, Seismicity, Seismology and Geodynamics	M
Samina Kidwai	Pakistan	School of Maritime and Applied Sciences Bahria University, Karachi Campus Karachi, Pakistan Oceanographer/Scientist Former, Director General National Institute of Oceanography, Pakistan Honorary Professor, State Key Laboratory of Estuarine and Coastal Research (SKLEC) East China Normal University (ECNU), Shanghai, P.R. China	Biological oceanography, estuaries and deltas	F
Katrin Kleemann	Germany	Postdoctoral researcher, Leibniz Institute for Maritime History, German Maritime Museum, Bremerhaven	Effects of extreme climate events, Transdisciplinary/interdisciplinary scientific approaches	F
Rob Middag	The Netherlands	Senior Scientist, Royal Netherlands Institute for Sea Research (NIOZ), Department of Ocean Systems, P.O. Box 59, 1790 AB Den Burg, The Netherlands	role of metals in marine ecosystems	M
Colin Moffat	UK	Robert Gordon University, Aberdeen	Pollution: emerging contaminants; traditional contaminants	M
Fabiana da Silva Paula	Brazil	Research Associate, Oceanographic Institute, University of São Paulo, Brazil	Bioinformatic, scientific expeditions, eDNA, benthic microbial communities, seabed	F

			ecology	
Bing Qiao	China	China Waterborne Transport Research Institute, Beijing; Managing Director of the Academic Committee	Marine invasive species, Marine Environmental Safety	F
Erica Wales	USA	Policy Analyst, National Oceanic and Atmospheric Administration	Role of the ocean in the climate system	F
Peng Zhan	China	Assistant Professor, Department of Ocean Science and Engineering, Southern University of Science and Technology (SUSTECH), Shenzhen, China	Physical oceanography, Mesoscale and sub-mesoscale oceanic dynamics, Dynamical downscaling and coastal dynamics, Marine connectivity	M
Isa Elegbede	Nigeria	Brandenburg University of Technology (BTU), Germany Head of Research and Innovation, Saeio Global Fellow of the Future Earth Coasts (FEC) Deputy Chair, IUCN CEESP Governance, Equity and Rights Theme	marine renewables resources sustainability	M
Kedong Yin	China			M

Section 4: Change since the second World Ocean Assessment Chapter 3: Trends in the physical and chemical state of the ocean				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
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Co-Lead Members				
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Niki Evelpidou	Greece	Panepistimiopolis, Zografou, Dept. of Geology & GeoEnv.	3.1.3 Sea Level	F
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Sam Dupont	Sweden	Senior Lecturer, Manager, Associate Professor, University of Gothenburg	3.2.1 Acidification (200 words)	M
David N. Thomas	Finland	Professor of Arctic Ecosystems Research, University of Helsinki	3.1.4, sea ice, Arctic, Southern Ocean, DOC	M
Jelena Knezevic	Greece	P3, Monitoring and Assessment Officer, Mediterranean Pollution Assessment and Control Programme (MED POL)	3.2.4 Nitrogen. Phosphorus, Trace Nutrients	F

Section 4: Change since the Second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4a: Plankton				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
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<b>Members of the writing team</b>				
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Nora Gladys Montoya	Argentina	Senior Scientist at the INIDEP, National Institute of Fisheries Research and Development, Paseo Victoria Ocampo N°1, Mar del Plata 7600, Argentina	HABs, marine toxins, analytical chemistry	F
Inma Herrera	Spain	Competitive Postdoctoral Researcher, Grupo de investigación en Biodiversidad y Conservación (BIOCON), Instituto Universitario ECOAQUA, Universidad de Las Palmas de Gran Canaria (ULPGC), Telde, Spain	Zooplankton	F
Guangyi Wang	USA	Professor, Tianjin University	Marine microbiology	M

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4b: Cephalopods				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
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Co-Lead Members				
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Gregory J. Barord	USA	Marine Biology Instructor and Conservation Biologist, Des Moines Public School Central Campus	Nautilid expert	M
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Lisa Hendrickson	USA	Research Fisheries Biologist, NOAA, NE Fisheries Science Center	Squid fisheries	F
Evgenia Lefkadiou	Greece	Principal Researcher, Hellenic Centre for Marine Research	Cephalopod ecology	F
Jennifer Mather	Canada	Professor, Department of Psychology, University of Lethbridge	Cephalopod behavior	F
Hassan Moustahfid	USA	Senior Marine Biologist, NOAA	Ecosystem-based fisheries management	M
K.K. Sajikumar	India	Senior Technical Assistant, ICAR-Central Marine Fisheries Research Institute	Cephalopod taxonomy, ecology, fisheries	M
Hideaki Kidokoro	Japan	Deputy Director, Japan Fisheries Research and Education Agency	Fisheries	M
Warwick H. H.	South Africa	Professor, Rhodes University	Cephalopod fisheries	M

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Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4c: Marine benthic invertebrates				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
<b>Co-Lead Members</b>				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
<b>Coordinating Author</b>				
Lis Lindal Jorgensen	Norway	Senior Scientist, Institute of Marine Research (Dr.)	Arctic marine biology and biogeography, including benthic ecology	F
<b>Members of the writing team</b>				
André Pardal	Brazil	Postdoctorate Research Fellow, Federal University of Sao Paulo (UNIFESP)	Benthic ecology, Rocky shore ecology, urban ecology	M
Amarachi Onyena	Nigeria	Lecturer I, Nigeria Maritime University Okerenkoko	Benthic ecology, Ecological quality, Pollution and risk assessment	F
Anya Dunham	Canada	Research Scientist, Fisheries and Oceans Canada	Benthic ecology, biogenic habitats, invasive species, marine conservation	F
Bruce Glavovic	New Zealand/South Africa	Professor, Massey University, NZ	Coastal and ocean governance; SDGs; socio-political, cultural, political dimensions	M
Chris Frid	UK			M
Christina Pavloudi	Greece	Postdoctoral Researcher, EMBRC-ERIC	Benthic ecology, Marine microbiology	F
Daniela Yepes Gaurisas	Colombia	Postdoc, Universidade Federal do Espírito Santo (UFES)	Benthic biodiversity and ecology, deep-sea and sandy shore ecology	F
Denis V. Zakharov	Russian Federation	Senior scientist, Zoological Institute RAS	Arctic Benthic ecology, biodiversity, biogeography	M
Elva Escobar	Mexico	Full time Professor, Universidad Nacional Autónoma de México (UNAM); Instituto de Ciencias del Mar y Limnología (ICML)	Deep sea benthic biodiversity, tropical ecosystems; Eastern Tropical Pacific & Gulf of Mexico , N Caribbean	F
Elizabeth Logerwell	USA			F

Evangelia Chatzinikolaou	Greece	Research Fellow, Institute of Marine Biology, Biotechnology and Aquaculture - Hellenic Centre for Marine Research (Dr.)	Marine biodiversity, Benthic ecology, Impacts of climate change, ocean acidification and pollution on benthic organisms	F
Gordon James Watson	British	Professor of Marine Zoology, University of Portsmouth (Professor)	Benthic ecology, temperate systems, intertidal fisheries and pollution	M
Hiroko Muraki Gottlieb	Japan	Associate, Elisabeth Haub School of Law at Pace University	Ocean governance (law and policy), SDGs, ocean-climate change nexus	F
Hongjun Li	China	Researcher, National Marine Environmental Monitoring Center	Taxonomy, benthic ecology, ecological quality evaluation	M
Huw James Griffiths	UK	Marine Biogeographer, British Antarctic Survey	Polar marine biology and biogeography, including benthic ecology	M
Izwandy Idris	Malaysia	Doctor of Philosophy, South China Sea Repository and Reference Centre, Institute of Oceanography and Environment, Universiti Malaysia Terengganu	Benthic ecology and diversity	M
Jayachandran Paravanparambil Rajakumar	India	Post Doctoral Fellow, King Fahd University of Petroleum & Minerals	Benthic ecology & diversity, Ecological quality, Marine ecotoxicology & Pollution and Invasive species	M
Kerry Sink	South Africa	Principal scientist, South African National Biodiversity Assessment	Marine ecosystem classification and assessment, Spatial planning, benthic ecology, science policy practitioner	F
Lara Atkinson	South Africa	Biodiversity Scientist, South African Environmental Observation Network	Benthic ecology, benthic impacts, deep-sea ecology, foundational biodiversity data, monitoring	F
Laurent Guérin	France	International scientific & technical coordination of the expertise on marines' biodiversity and non-indigenous species, French Biodiversity Agency	Benthic ecology & diversity, Ecological quality and non-indigenous species (Pan-European seas)	M
Leen Vandepitte	Belgium	marine biologist project manager at data centre, Flanders Marine Institute (VLIZ)	Taxonomy, Global biodiversity data systems	F
Lennert Schepers	Belgium	project manager at data centre, Flanders Marine Institute (VLIZ)	Biodiversity informatics, spatial data, global databases	M
Marcel Miranda	Brazil	Post-doctorate researcher, Universidade de São Paulo	Taxonomy, Ecology and Biogeography of Deep-Sea Benthic Habitats	M
Pat Hutchings	Australia	Senior Fellow, Australian Museum	Polycheate taxonomy, benthic ecology	F

Rachel Przeslawski	Australia	Research leader, NSW Fisheries	Benthic ecology, deep-sea ecology	F
Sebastian Herrera Kasic	Chile	UNEMPLOYED, LOOKING FOR A JOB AND BUILDING AN EXTERNAL ADVISORY BUSINESS, Independent Professional with Technical Advisory Services in Chile and Mesoamerica on Ecosystem Approach and Decent Work in Small Scale Fisheries and Aquaculture / & External Consultant to FAO, Rome (PSA contract).	Ocean Governance / Management and Public Policies / Small-Scale Fisheries and Aquaculture in Latin America / Decent Work in Artisanal Fishing and Aquaculture / Diving Occupational Safety and Health	M
Paris Stefanoudis	Greece	University of Oxford	Benthic and fish ecology & diversity; Coral Reef Ecology; Deep-Sea Biodiversity	M
Mehdi Bolouki Kourandeh	Iran	Head of marine ecology group, Coral Expert, Iran Department of Environment	Marine Benthos, Marine Biodiversity	M

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4d: Fishes				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Enrique Marschoff	Argentina	Argentine Representative to the Scientific Committee for the Conservation of Antarctic Marine Living Resources and its Working Groups from 1985 to date. Elected member of the 9 person CCAMLR Performance Review Panel. Advisor to the Secretaria de Pesca on the implementation of the CDS and to the Argentine Parliament in the drafting of the Law on Antarctic Fisheries		M
<b>Co-Lead Members</b>				
Chang-Ik Zhang	Republic of Korea	Professor, World Fisheries University Professor Emeritus, Pukyong University		M
<b>Coordinating Author</b>				
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Fernanda de Oliveira Lana	Brazil	"Post Doctoral Researcher	PhD in fisheries, Federal Rural University of Pernambuco. Published on sharks and other elasmobranchs, etc.	F
Gladys Okemwa	Kenya	"Principal Research Scientist	PhD Fisheries Management, Tuna fisheries	F
Maximilian Hirschfeld	Germany	Marine Ecologist/Senior Researcher Galápagos Science Center, Ecuador	PhD sharks, James Cook University, Galapagos Science Center	M
Burcu Bilgin Topcu	Turkiye	Senior Fisheries Officer/European Union Expert Ministry of Agriculture and Forestry, General Directorate of Fisheries and Aquaculture	PhD in fisheries, Ankara University. Published on management of tuna and swordfish, fisheries discards, etc.	F
Alba Jurado-Ruzafa	Spain	Research Assistant Spanish Institute of Oceanography (IEO, CSIC), Oceanographic Centre of the Canary Islands.	PhD Fish biology and artisanal fisheries. FAO/CECAF working group-small pelagic fish assessment (NW Africa).	F

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Sergii Snigirov	Ukraine	Lead Researcher Odessa National I. I. Mechnikov University	PhD Ukraine, Odessa University, Fish biology, black sea area	M
Manuel Hidalgo	Spain	Research Scientist Spanish Institute of Oceanography, Spanish National Research Council (IEO, CSIC)	PhD Marine Science. Population dynamics Hake	M
Antonio Di Natale	Italy	Director Aquastudio Research Institute	Pelagic fisheries	M
Salvador Zarco- Perello	Mexico	Researcher University of New Hampshire	PhD Australia, UWA Temperate and tropical fish biology, herbivory	M

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4e: Marine mammals				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Katarina Viik	Estonia	Counselor, European Union Secretariat Government Office of Estonia		F
<b>Co-Lead Members</b>				
Carmen Mifsud	Malta	Senior Environment/Enforcement Officer at ERA - Environment & Resource Authority Visiting Lecturer at University of Malta and at the IMO-International Maritime Law Institute (IMLI)		F
<b>Coordinating Author</b>				
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<b>Members of the writing team</b>				
Luciano Dalla Rosa	Brazil	Laboratorio de Ecologia e Conservacao da Megafauna Marinha, Instiuto de Oceanografia, Universidade Federal do Rio Grande, Brazil	Ecology and conservation of marine vertebrates, especially cetaceans; species distribution modelling, biotelemetry, cetacean population dynamics, cetacean- fisheries interactions, and Southern Ocean ecosystems with a focus on the ecology of fin, humpback and killer whales	M
Songhai Li	China	Marine Mammal and Marine Bioacoustics Laboratory, Chinese Academy of Sciences, Sanya, China and The Innovation Research Center for Aquatic Mammals, Chinese Academy of Sciences, Wuhan, China	"Marine mammals (whales, dolphins, porpoises, sea lions,	M
Caterina Fortuna	Italy	National Institute for Environmental Protection and Research (Istituto Superiore per la Protezione e la Ricerca Ambeintale, ISPRA), Italy	seals, dugongs, and so on) ; bioacoustics , ecology, biology, and evolution of marine mammals"	F
Kit Kovacs	Norway	Norwegian Polar Institute, Tromso, Norway	Conservation of charismatic marine species (cetaceans, sea turtles, elasmobranchs). European waters, Mediterranean and Black	F

			Sea.	
Daniel Costa	USA	Department of Ecology and Evolutionary Biology, University of California Santa Cruz, CA, USA	Biology, conservation and management of whales and seals	M
Shambhu Paudel	Nepal	Natural Resources & the Environment, University of Arizona, Tucson, AZ, USA	Marine mammals, Seagrasses	M
Andre Silva Barreto	Brazil	Lab de Informatica da Biodiversidade e Geomatica, Escola Politecnica, UNIVALI, Itajai, Brazil	River dolphins, impacts, hydrology	M
Frances Gulland	USA	Wildlife Health Center, University of California Davis, CA, USA		F
Helene Marsh	Australia	College of Science and Engineering, James Cook University, Townsville, Queensland, Australia		F

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4f: Marine reptiles				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Carmen Mifsud	Malta	Senior Environment/Enforcement Officer at ERA - Environment & Resource Authority Visiting Lecturer at University of Malta and at the IMO-International Maritime Law Institute (IMLI)		F
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Vinay Udyawer	New Zealand	Charles Darwin Foundation, Ecuador	Taxon: Marine Snakes, Marine Turtles, Saltwater crocодиels, Region: global	M
<b>Members of the writing team</b>				
Bryan Wallace	USA	Director, Ecolibrium, Inc. Assistant Professor Adjunct, University of Colorado Boulder	Taxon: marine turtles Region: Americas, Atlantic Ocean, Pacific Ocean	M
Mariana Fuentes	USA/Brazil	Associate Professor Marine Turtle Research, Ecology and Conservation Group Earth, Ocean and Atmospheric Science, Florida State University Room 6093 EOAS, 1011 Academic Way, Tallahassee, FL 32304	Taxon: marine turtles Region: Americas, Atlantic Ocean, Pacific Ocean	F
Gabriel Hoinsoude Segniagbeto	Togo	Zoologist, Full Professor Coordinator of Scientific Authority of CITES of Togo Focal Point of IOC-UNESCO of Togo Laboratory of Ecology & Ecotoxicology (LaEE), Faculty of Sciences University of Lome, BP 6057 Lomé (Togo)	Taxon: Marine turtles, Region: West and Central Africa	M
Arne Rasmussen	Denmark	Associated Professor, Royal Danish Academy, Denmark	Taxon: sea snakes Region: Indian Ocean, Pacific Ocean, Asia,	M

			Oceania	
Andrea Phillott	Australia	Professor, FLAME University, India	Taxon: marine turtles Region: Pacific Ocean, Indian Ocean	F
Maximilian Hirschfeld	Germany	Senior Associate Researcher, Galapagos Science Centre, Ecuador	Taxon: Marine Iguanas, Region: Galapagos	M
Ruchira Somaweera	Australia	Principle Scientist, Stantec, Australia	Taxon: Saltwater Crocodile, Region: Global	M
Yaniv Levy	Israel	Principle Scientist, Nature and Parks Authority, Israel	Taxon: Marine turtles, Region: Mediterranean	M

Section 4: Change since the second World Ocean Assessment  
 Chapter 4: Biodiversity  
 Sub-chapter 4g: Seabirds

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Slimane Maliki	Morocco	Chef de Service de la Planification et de la Coordination Interministérielle Direction de l'Observation, des Études et de la Planification Ministère de la Transition Énergétique et du Développement Durable		M
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<b>Coordinating Author</b>				
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<b>Members of the writing team</b>				
Esteban Frere	Argentina	Full professor, Universidad Nacional de la Patagonia Austral	Americas; penguins; seabird & fisheries interactions; MPAs	M
Tammy Davies	UK	Marine Science Coordinator, BirdLife International	Global; MPAs	F
Ross Wanless	South Africa	Seabird project manager and fisheries/marine consultant CCSBT	Africa, albatrosses; seabird & fisheries interactions	M
Stephanie Borrelle	New Zealand	Pacific Marine Regional Coordinator, BirdLife International	Pacific; plastics; restoration	F
Martin Beal	USA/Sweden	Researcher, Faculty of Sciences, Univ. of Lisbon	Global; Europe; procellariiformes and charadriiformes	M
Carolina Hazin	Brazil/UK	Senior Policy Advisor, The Nature Conservancy	Global; Americas; policy interface	F
Patricia Serafini	Brazil	Researcher, Instituto Chico Mendes de Conservação da Biodiversidade	Southern Oceans; diseases; offshore wind farms	F
Jana Jeglinski	Germany	senior researcher at Aarhus University, Department of Ecoscience, Frederiksborgvej 399, 4000 Roskilde, Denmark	Europe; avian flu; gannets and boobies	F

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4h: Marine plants				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
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Jason Hall-Spencer	UK	Professor at the Cyprus University of Technology and Tsukuba University (Japan)	Marine Biology	M
<b>Members of the writing team</b>				
José Souto Rosa Filho	Brazil	Professor, Federal University of Pernambuco - Department of Oceanography (Professor)	Benthos, Mangroves, seagrass, seaweed, beach ecology, coral reefs	M
Mario Luiz Gomes Soares	Brazil	Professor, Rio de Janeiro State University (Dr.)	Mangrove Ecology	M
Edwin Lanfranco	Malta	Ex University Lecturer, University of Malta (Dr.)	Algae and Plants expert, Region: Mediterranean, Atlantic Ocean, Career level: Late	M
Nahid Osman	Sudan	Lecturer, Faculty of Marine Science, Red Sea University (Dr.)	Coastal vegetation and coastal management	F
Lu Yang	China	National Marine Data and Information Service, China	Marine plankton, blue ecosystem restoration	F
Nata Tavonvunchai	Thailand	Project Development Advisor - Blue Economy & Marine Natural Capital	Blue carbon governance / finance / projects (mangroves, seagrass, saltmarsh, seaweed)	F
Joel Christopher Creed	UK	Professor, Universidade do Estado do Rio de Janeiro	Seagrass	M
Dorsaf Kerfahi	Tunisia	Assistant Professor, Keimyung University Korea	Marine soil microbiology	F

Erik van Doorn	The Netherlands	Lecturer, Dutch-University of Wollongong	law of the sea, international environmental law	M
Emad Koochaknejad	Iran	Researcher, Iranian National Institute of Oceanography and Atmospheric Science	Marine ecology	M
Wenhai Lu	China	Director of the division of Marine Ecology, National Marine Data and Information Service, China	Blue carbon ecosystem (salt marsh, mangrove, seagrass) conservation, management and trading	M

Section 4: Change since the second World Ocean Assessment				
Chapter 4: Biodiversity				
Sub-chapter 4i: Algae other than phytoplankton				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Carmen Mifsud	Malta	Senior Environment/Enforcement Officer at ERA - Environment & Resource Authority Visiting Lecturer at University of Malta and at the IMO-International Maritime Law Institute (IMLI)		F
<b>Co-Lead Members</b>				
Felicia Mogo	Nigeria	President/founder African marine Environment sustainability Initiative (AFMESI)		F
<b>Coordinating Author</b>				
Elizabeth Cottier-Cook	UK	Professor, Scottish Association for Marine Science	Seaweed biosecurity - 20 yrs experience	F
<b>Members of the writing team</b>				
Phaik Eem Lim	Malaysia	Professor, University of Malaysia	Macroalgae / Aquaculture sustainability, Phycologist with 30+ yrs experience	F
Juliet Brodie	UK	Natural History Museum	Phycologist with 30+ yrs experience	F
Christine Maggs	UK	Honorary Professor, Queen's University Belfast	Macroalgae / Marine invasive species, Phycologist with 30+ yrs experience	F
Olivier De Clerck	Belgium	Professor, University of Gent	Algal production and economics / Kelp forests and algal beds, Phycologist with 20+ yrs experience	M
Heroen Verbruggen	Australia	Associate Professor, University of Melbourne	Marine genetic resources / Macroalgae, Phycologist with 30+ yrs experience	M
Joanna Wilbraham	UK	Principal Curator, Natural History Museum	Macroalgae / Kelp forests and algal beds, Phycologist with 30+ yrs experience	F
Liu Tao	China	Professor, University Ocean China	Biological oceanography / Phycologist with 20+ yrs experience	M
Flower Msuya	Tanzania	Chairperson, Tanzania Seaweed Cluster	Macroalgae / Mariculture, Phycologist with 20+ yrs experience	F
Nair Yokoya	Brazil	Professor, Environmental Research Institute, São Paulo, Brazil	Algal production and economics (seaweed cultivation and biotechnology), and the	F

			region of specialization is The South Atlantic Ocean and the Wider Caribbean	
Franciane Pellizzari	Brazil	Associate Professor, Paraná State University		F
Sophie Corrigan	UK	Post-doctoral Researcher, Natural History Museum		F
Thomas Wernberg	Australia	Aquaculture Officer, Food and Agriculture Organization of the United Nations	Aquaculture science (traditional assessment)	M

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5a: Intertidal zone				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Eric Okuku	Kenya	Principal Research Scientist, Kenya Marine and Fisheries Research Institute		M
<b>Co-Lead Members</b>				
Tymon Zielinski	Poland	Institute of Oceanology, Polish Academy of Sciences (IO PAN), Sopot, Poland. - Professor.		M
<b>Coordinating Author</b>				
Martin Zimmer	Germany	Professor, Leibniz Centre for Tropical Marine Research, ZMT Bremen	Solutions for carbon-sequestration in coastal ecosystems	M
<b>Members of the writing team</b>				
Pilar Lorena Munoz Muga	Chile	Vice-Rectorate for Outreach and Engagement, Universidad de Valparaiso	Kelp forests	F
Niki Evelpidou	Greece	Professor, National & Kapodistrian University of Athens	Sea level-rise	F
Sheila Nyang'anyi Rioba	Kenya	FISHERIES OFFICER, Kenya Fisheries Service	Ecosystem restoration	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5b: Biogenic reefs and sandy, muddy and rocky shore substrates				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expert Group on Science and Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Co-Lead Members</b>				
Felicia Mogo	Nigeria	President/founder African marine Environment sustainability Initiative (AFMESI)		F
<b>Coordinating Author</b>				
Ronaldo Christofoletti	Brazil	Universidade Federal de São Paulo	Rocky shore Ecology, sand shores, coastal biodiversity, ocean literacy	M
<b>Members of the writing team</b>				
Stuart Jenkins	UK	Bangor University	North Atlantic rocky shore and sand shore ecology	M
Maria Gabriela Palomo	Argentina	National History Museum	South Atlantic and Wider Caribbean, Rocky shore Ecology,	F
Kira Krumhansl	Canada	Fisheries and Oceans Canada – Bedford Institute of Oceanography	Biological Oceanography, Marine Ecology Physical Oceanography	F
Barbara Ramos Pinheiro	Brazil	Post Doc researcher, Universidade Federal de Alagoas	Atlantic Ocean, Wider Caribbean	F
Gray Williams	UK	Hong Kong University	Indian Ocean, Rocky and muddy shore Ecology,	M
Dahai Liu	China	The First Institute of Oceanography (FIO), Ministry of Natural Resources (MNR)	Indian Ocean, link with other Chapters	M
Omar Defeo	Uruguay	Faculty of Sciences,	Sand shore ecology	M
Moisés Andrés	Chile	Universidad Adolfo Liberales	Rocky shore ecology	M

Aguilera Moya				
Juliet Furaha Karisa	Kenya	Kenya Marine and Fisheries Research Institute	Biogenic reefs and sandy, muddy and rocky shore substrates	F
Rebecca Morris	Australia	University of Melbourne	rocky shore ecology, biogenic reefs	F

Section 4: Change since the second World Ocean Assessment

Chapter 5: Habitats

Sub-chapter 5c: Atoll and island lagoons

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expert Group on Science and Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Co-Lead Members</b>				
Felicia Mogo	Nigeria	President/founder African marine Environment sustainability Initiative (AFMESI)		F
<b>Coordinating Author</b>				
Luigi Jovane	Italy	Full Professor, Universidade de Sao Paulo	Carbonaceous systems	M
<b>Members of the writing team</b>				
Jody Webster	Australia	University of South Wales	Carbonaceous systems	M
Andre Droxler	USA	Rice University	Carbonaceous systems	M
Andrea Rovere	Italy	Universita di Venezia Ca Foscari	Sea-Level Changes	M
Antónia Correia	Portugal	Professor, Lusofona University, Portugal	Economics	F
Miguel Mies	Brazil	Associate Professor, Universidade de São Paulo	Atolls, coastal and island lagoons	M
Fiona Whitaker	UK	University of Bristol	Atolls, coastal and island lagoons	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5d: Tropical and subtropical coral reefs				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
<b>Co-Lead Members</b>				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
<b>Coordinating Author</b>				
Michael John Sweet	UK	Head of the Nature-based Solutions Research Centre, University of Derby	Research grant received on “Accelerating coral reef conservation, restoration, and sustainable business development in developing nations using ex situ coral spawning” – CORDAP 2023-2026 (US\$895,775)	M
<b>Members of the writing team</b>				
Maria Beger	Germany	Associate Professor in Conservation Science, School of Biology, University of Leeds	Incorporating genetic measures of connectivity and adaptation in marine spatial planning for corals	F
Francesca Benzoni	Italy	Associate Professor of Marine Science, King Abdullah University of Science and Technology (KAUST)	Coral taxonomy, evolution and diversity, coral biogeography, benthic habitat characterization and mapping	F
Emma Camp	Australia	Lecturer, University of Technology Sydney, Australia	Resolving the threat of ocean deoxygenation to coral resilience	F
Francesca Benzoni	Italy			F
Javier del Campo	Spain	Chair of the Biodiversity Department at the Institut de Biologia Evolutiva, CSIC - UPF (Barcelona, Spain)	Ecosystem services provided by echinoderm holobionts in coastal zones	M
Kerri Laura Dobson	UK	Postdoctoral researcher: Cryptic speciation in coralline algae, University of North Carolina at Chapel Hill, USA	Multiple stressor effects on coral physiology and biogeochemistry	F
Nohora Galvis	Colombia	Coordinator, International Coral Reefs	Analysis of the Decision Support Systems	F

		Observatory	for the Conservation of the Capurgana-Cabo Tiburón and Varadero Coral Reefs in Colombia	
Gillian Goby	Australia	EXECUTIVE Director + Chief Oceans Advisor, MCC SUSTAINABLE FUTURES	International ocean policy development; climate change vulnerability assessment and adaption planning	F
Simon Harding	UK	Freelance Marine Consultant	Coral reef resource and biodiversity assessments, marine conservation planning and habitat mapping, small-scale fisheries	M
Danwei Huang	Singapore	Associate Professor, Department of Biological Sciences National University of Singapore	Environmental concentrations of herbicide prometryn render stress-tolerant corals susceptible to ocean warming	M
Buki Rinkevich	Israel	Professor, Faculty of Science and Science Education, University of Haifa	Awarded Henry Ford European Conservation awards-reef restoration	M
Marie-Lise Schläppy	Switzerland	Research scientist. Benthic ecologist. Australian Institute of Marine Sciences (AIMS), Perth, Australia	Spatial & temporal biodiversity of benthic natural communities in Northern Australia; spatial & temporal analysis of sessile invertebrates on oil and gas infrastructure	F
Curt Daron Storlazzi	USA	University of Victoria	Coral reef and rocky shoreface morphology, hydrodynamics, sediment distribution and the resulting modes of sediment transport	M
Parviz Tavakoli-Kolour	Iran	Technical assistant at Prof. Takahashi Lab, University of the Ryukyus, Japan	Effects of global warming on reef-building corals; coral reef acclimation and adaptation mechanisms	M
Sancia van der Meij	The Netherlands	Assistant Professor, University of Groningen	Adaptive divergence, biogeography, biodiversity, coral reefs, cospeciation, Crustacea, diversification	F
Viatchelav Ivanenko	Russian Federation	Biology faculty, Shenzhen MSU -BIT University, China Biology faculty, Lomonosov Moscow State University	Diversity, evolution and ecology of crustacean copepods living in symbiosis with shallow water marine invertebrates (corals, sponges, echinoderms etc)	M
Jenny Villalobos	Colombia	Specialist in Reef Organism Pathology, Instituto	Ecological consequences faced by coral reefs	F

		Politécnico Nacional-Centro Interdisciplinario de Ciencias Marinas	in the presence of diseases and other threats in the ecosystem	
Christian R Woolstra	Germany	Professor, University of Konstanz	Coral microbial ecology; coral metaorganism structure & function; coral symbiosis; adaptive capabilities and biotic response of coral holobionts to environmental change	M
Brian K Walker	USA	Research Program Director, Nova Southeastern University	Coral disease intervention, spatial ecology, community biogeography, coral reef ecology and geology, reef fish ecology	M
Zoe Richards	Australia	Coral Conservation and Research Group, Trace and Environmental DNA Laboratory, School of Molecular and Life Sciences, Curtin University, Perth, Australia	Scleractinian coral taxonomy; Coral Reef Ecology and Conservation; Environmental DNA; Marine Biodiversity; Population Genetics and Phylogenomics	F
William F. Precht	USA	Director, Coastal and Marine Sciences, Bio-Tech Consulting - an EnviroTrac Company  Lecturer, School of Professional Studies , Graduate Program in Sustainability Science, Columbia University.	Geo-biology of coral reefs, long-term monitoring of coral reef ecosystems, anthropogenic impacts to coral reef ecosystems, the role of coral disease and bleaching on coral reefs, and the impact of global climate change on coral reefs.	M

Section 4: Change since the second World Ocean Assessment

Chapter 5: Habitats

Sub-chapter 5e: Cold water corals and sponges

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Juying Wang	China	Director General, PHD National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China		F
<b>Co-Lead Members</b>				
Joshua Tuhumwire	Uganda	Founder and Managing Director of Gondwana Geoscience Consulting Ltd		M
<b>Coordinating Author</b>				
Erik Cordes	US	Temple University	Previous Coordinating Author on WOA I and II	M
<b>Members of the writing team</b>				
Sebastien Hennige	UK	Senior Lecturer, University of Edinburgh, Scotland, UK	Previous author on WOA I and II	M
Narissa Bax	New Zealand	University of Tasmania	Cold-water stlyasterid corals, polar regions, South Pacific, member of GOOS	F
Jorge Cortes	Costa Rica	Professor Emeritus, University of Costa Rica	Extensive experience with shallow and deep corals, conservation, ecology, Eastern Tropical Pacific, Caribbean	M
Kerry Sink	South Africa	Principal scientist, South African National Biodiversity Institute	Extensive experience with shallow and deep corals, conservation, ecology, South Atlantic and Indian Ocean	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5f: Estuaries and deltas				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Tymon Zielinski	Poland	Institute of Oceanology, Polish Academy of Sciences (IO PAN), Sopot, Poland. - Professor.		M
<b>Co-Lead Members</b>				
Juying Wang	China	Director General, PHD National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China		F
<b>Coordinating Author</b>				
Feng Zhou	China	Professor, Second Institute of Oceanography, Ministry of Natural Resources	Numerical modelling, physical-biogeochemical coupling in hypoxia, phytoplankton blooms etc	M
<b>Members of the writing team</b>				
Pablo Muniz Maciel	Uruguay	Head of Sección Oceanografía y Ecología Marina de la Facultad de Ciencias, Oceanografía & Ecología Marina Instituto de Ecología y Ciencias Ambientales, University of the Republic, Uruguay	PhD, University of Sao Paulo. Contributor to Chapter 44 (Estuaries and deltas) of WOA I. Published on estuarine sediments, coastal pollution, benthic estuarine communities, etc.	M
Wenxia Zhang	China	Associate professor , Second Institute of Oceanography, Ministry of Natural Resources	PhD, Texas A&M University. Associate research scientist with expertise in physical-biogeochemical modelling of coastal marine environment.	F
Ricardo J. Torres	UK	Merit Scientist, Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH. Tel: +44 1752 633448; Fax: +44 1752 633100	Ricardo has over 20 years' experience in mesoscale physical oceanography that includes a PhD from the University of Wales, Bangor	M
Qicheng Meng	China	Associate Researcher, Second Institute of Oceanography, Ministry of Natural Resources	Ph.D, University College London: London, UK. Research focus on mesoscale and sub-mesoscale processes and their impact on biogeochemical processes, numerical modelling.	M

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5g: Seagrass meadows				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
<b>Co-Lead Members</b>				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
<b>Coordinating Author</b>				
Zhao Peng	China	Associate professor, Hainan University	Zhao Peng, affiliated with Hainan University in China, is a recognized expert in seagrass ecology and conservation. His research focuses on understanding the dynamics and ecological functions of seagrass ecosystems in tropical and subtropical coastal regions. Peng's work includes studies on the biodiversity of seagrass meadows, their role in supporting marine biodiversity, and their response to environmental stressors such as climate change and coastal development.	M
<b>Members of the writing team</b>				
Janine Barbara Adams	South Africa	Distinguished Professor & Research Chair in Shallow Water Ecosystems, Nelson Mandela University	Janine Barbara Adams, affiliated with Nelson Mandela University, has extensive experience in seagrass ecology and conservation. Her research focuses on the dynamics of seagrass ecosystems, including their role in coastal biodiversity, carbon sequestration, and resilience to environmental stressors. Adams has contributed significantly to understanding the ecological processes driving seagrass habitat change and the implications for coastal management and conservation.	F

Shalini Singh	Fiji	Assistant Professor, Fiji National University	Shalini Singh, affiliated with Fiji National University, is recognized for her contributions to seagrass research and conservation. Her work focuses on the ecology and biogeography of seagrass communities in the Pacific region, including their response to climate change, habitat restoration, and the role of seagrasses in supporting coastal livelihoods. Singh's expertise informs policies and management practices aimed at preserving seagrass diversity and ecosystem services.	F
Joel Christopher Creed	Brazil	Full Professor, Rio de Janeiro State University	Joel Christopher Creed, associated with Rio de Janeiro State University, has extensive experience in seagrass ecology and marine biodiversity conservation. His research investigates the ecological functions of seagrass ecosystems, including their importance for fish nurseries, coastal protection, and carbon storage. Creed's work contributes to the development of conservation strategies for seagrass habitats in the coastal regions of Brazil and beyond.	M
Emad Koochaknejad	Iran	Iranian National Institute for Oceanography and Atmospheric Scienc	Emad Koochaknejad, linked to the Iranian National Institute for Oceanography and Atmospheric Science, is a prominent researcher in seagrass ecology and marine habitat management. His research focuses on the distribution, abundance, and ecological significance of seagrass meadows in the Persian Gulf and the Gulf of Oman. Koochaknejad's expertise contributes to the conservation and sustainable use of seagrass resources in Iranian coastal waters.	M
Agnes Mittermayr	USA	SeagrassNet	Agnes Mittermayr is an extensive experience in seagrass ecology, benthic habitat mapping,	F

			and estuarine restoration. Her research focuses on food web interactions, nutrient flows, and the impacts of anthropogenic activities on marine ecosystems. As the director of SeagrassNet and a benthic ecologist at the Center for Coastal Studies, she leads projects in habitat restoration and ecological assessments, with numerous publications on marine biodiversity and coastal ecosystem management	
Lina Mtwana Nordlund	Sweden	Uppsala University	Lina Mtwana Nordlund is an expert in marine biology and environmental management, with extensive experience in seagrass ecosystem research, biodiversity conservation, and social-ecological systems. She has worked on various international projects related to seagrass carbon sequestration, sustainable fisheries, and ecosystem services. Dr. Nordlund is currently an Associate Professor at Uppsala University, and her work spans research, teaching, and policy advisory roles with organizations such as UNESCO and the Global Ocean Observing System	F
Udhi Eko Hernawan	Indonesia	Research Center for Oceanography, National Research and Innovation Agency - Indonesia	Udhi Eko Hernawan is a researcher at the Research Center for Oceanography, National Research and Innovation Agency, Indonesia. His work focuses on seagrass bed ecosystems, investigating their biodiversity, ecological functions, and role in carbon sequestration, contributing to marine conservation and sustainable management efforts in Indonesia.	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5h: Mangroves				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
Co-Lead Members				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
Coordinating Author				
Punyasloke Bhadury	India	Indian Institute of Science Education and Research Kolkata	Mangrove ecology; Blue economy; Indigenous communities; Mangrove time series and carbonate chemistry	M
Members of the writing team				
Anwasha Ghosh	India	Research Associate, Centre for Climate and Environmental Studies	Microbiome in mangroves; pollution in mangroves	F
Krishna Ray	India	Associate Professor, West Bengal State University	Mangrove vegetation; restoration; mangroves of India and Bangladesh	F
Chew Li Lee	Malaysia	UCSI University	Mangrove ecology; benthic ecology	F
Rahil Nozarpour	Iran	Professor, Tarbiat Modares University	Ecosystem functioning in mangroves	F
Alexander Khan	Indonesia	Lecturer, Faculty of Fisheries and Marine Sciences, Universitas Padjadjaran	Sustainable fisheries	M
Agnes Muthumbi	Kenya	Assoc. Professor, Department of Biology Sciences, University of Nairobi	Mangrove ecology; artisanal fisheries	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5i: Salt marshes				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
<b>Co-Lead Members</b>				
Mehdi Ghodrati Shojaei	Iran	Assistant Professor Department of Marine Biology, Tarbiat Modares University		M
<b>Coordinating Author</b>				
Judith Weis	USA	Rutgers University, Professor Emerita of Biological Sciences	Coordinating author of Salt Marsh chapter in WOA 1 and WOA 2; Author of book “Salt Marshes: A Natural and Unnatural History”; author of dozens of refereed papers on salt marshes; Merit Award from Society of Wetland Scientists for work on salt marshes.	F
<b>Members of the writing team</b>				
Katherine Segarra	USA	Supervisor for Biological Sciences, Gulf of Mexico Region  Bureau of Ocean Energy Management, Department of the Interior, US Government	Co-Author for Salt Marsh chapter for WOA 1 and WOA 2; dissertation reserach focused on geomicrobiological cycling in wetlands resulting in three first-author publications in Nature Communications, Geochimica Cosmochimica Acta, and Biogeochemistry. Has worked for the past decade in the US Government assessing anthropogenic impacts to coastal and marine systems, including coastal wetlands.	F
Luis Pinheiro	Portugal	Associate Professor in Marine Geophysics at the University of Aveiro	Conducting research in salt marshes areas for more than 15 years, in particularly in characterizing their blue carbon potential, through mapping with geophysical methods shallow gas occurrences in the sedimentary sections and their escape in the water	M

			column. Co-author of previous Chapter on this topic for WOA 2.	
Yuan Li	China	Yantai Institute of Coastal Zone Research, Associate Professor, Research group leader of "coastal zone ecological restoration and blue carbon sequestration"	Conducting assessments of the biogeochemical cycles of salt marshes on both continental and global scales, and publishing dozens of papers on the subject in prestigious journals like "Global Change Biology" and "Environmental Science and Technology"	M

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5j: Continental slopes and submarine canyons				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Joshua Tuhumwire	Uganda	Founder and Managing Director of Gondwana Geoscience Consulting Ltd		M
<b>Co-Lead Members</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Coordinating Author</b>				
Miquel Canals	Spain	Universitat de Barcelona	Functioning of CSSC, and anthropogenic impacts	M
<b>Members of the writing team</b>				
Catherine Creese	USA	Director of the Naval Seafloor Cable Protection Office (NSCPO), US Navy	Deep-sea floor infrastructures incl. in CSSC	F
Marie-Claire Fabri	France	Research scientist in marine habitat mapping and habitat suitability models in deep seas, IFREMER	Benthic ecosystems, cold-water coral communities in CSSC	F
Jacobo Martín	Argentina	Senior Researcher at CONICET (Argentina) and Maria Zambrano Researcher at UB (Spain), CONICET	Physical and biogeochemical processes in CSSC, and anthropogenic impacts	M
Antonio Pusceddu	Italy	Full Professor, Univ. Cagliari, CoNISMa	Biological functioning of CSSC	M
Julie A. Trotter	Australia	Adjunct Associate Professor, University of Western Australia	CSSC habitats and climate change effects	F
Khaira Ismail	Malaysia	Head of Marine Geoscience Program, University Malaysia Terengganu	Spatial heterogeneity in submarine canyons	F
Veerle Huvenne	UK	Research Leader; Acting Associate Group Head for Ocean BioGeosciences, National Oceanography Centre	Ecosystems and functioning of CSSC	F

Yue Sun	China	Doctoral Student, Institute of Deep-Sea Science and Engineering, Chinese Academy of Sciences	Morphology and sedimenta dynamics in submarine canyon	M
François Galgani	France	Senior scientist, IFREMER	CSSC littering	M
Nathan Daniel Merchant	UK			M
Mahsa Haghi	Iran			F

## Section 4: Change since the second World Ocean Assessment

## Chapter 5: Habitats

## Sub-chapter 5k: High-latitude ice

Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Enrique Marschoff	Argentina	Argentine Representative to the Scientific Committee for the Conservation of Antarctic Marine Living Resources and its Working Groups from 1985 to date. Elected member of the 9 person CCAMLR Performance Review Panel. Advisor to the Secretaria de Pesca on the implementation of the CDS and to the Argentine Parliament in the drafting of the Law on Antarctic Fisheries		M
Co-Lead Members				
Vasily Smolyanitsky	Russian Federation	Leading scientist-head of laboratory Arctic and Antarctic Research Institute (AARI)		M
Coordinating Author				
Walker Smith, jr	USA	"Distinguished Professor, Shanghai Jiao Tong University, Shanghai, PRC	40 years working in Arctic and Antarctic	M
Members of the writing team				
Sharon Stammerjohn	USA	Senior Research Associate, University of Colorado	30 years working in Arctic and Antarctic; <a href="https://orcid.org/0000-0002-1697-8244">https://orcid.org/0000-0002-1697-8244</a>	F
Ted Maksym	USA	Associate Scientist with Tenure, Woods Hole Oceanographic Institution	30 years working in Arctic and Antarctic; <a href="https://www.whoi.edu/profile/tmaksym/">https://www.whoi.edu/profile/tmaksym/</a>	M
Rob Massom	Australia	Principal Research Scientist, Australian Antarctic Division	30 years working in Antarctic; <a href="https://www.antarctica.gov.au/science/meet-our-scientists/dr-rob-massom/">https://www.antarctica.gov.au/science/meet-our-scientists/dr-rob-massom/</a>	M
Olga Sergienko	USA	Research Glaciologist, Princeton University	20 years working on ice sheets; <a href="https://aos-sergienko.scholar.princeton.edu/sites/g/files/toruqf4106/files/aos_sergienko/files/cv21_0.pdf">https://aos-sergienko.scholar.princeton.edu/sites/g/files/toruqf4106/files/aos_sergienko/files/cv21_0.pdf</a>	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5I: Seamounts and pinnacles				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Yutaka Michida	Japan	Director, Center for International Collaboration Atmosphere and Ocean Research Institute (AORI), The University of Tokyo		M
<b>Co-Lead Members</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expertson Scienceand Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Coordinating Author</b>				
Pavane Annasawmy	Mauritius	Research fellow, Fondation pour la recherche sur la biodiversité	Distribution, community composition, migration and trophic relationships of mesopelagic communities at seamounts	F
<b>Members of the writing team</b>				
Ariadna Mecho	Spain	Marie Curie Postdoctoral Fellow, Barcelona Supercomputing Center, Spain	Benthic ecology, southeast Pacific seamounts	F
Astrid Leitner	USA	Assistant Professor, CEOAS, Oregon State University	Seamounts bathymetry	F
Jason Hall-Spencer	UK	Professor at the Cyprus University of Technology and Tsukuba University (Japan)	Benthic ecology, deep-sea coral reefs, ocean acidification, demersal gear impacts	M
Dannielle Eager	UK	Student, Plymouth University	fish, acoustics and oceanography in the Indian Ocean	F
Réka Domokos	USA	research oceanographer, Ecosystems Sciences Division, NOAA	effects of physical/chemical processes on organisms, with the focus areas of biophysical coupling in pelagic environment and at seamounts, as well as meso- &	F

			largescale variability and change	
Telmo Morato	Portugal	Principal researcher, Instuto do Mar	Seamounts - benthic, fisheries	M
Junlong ZHANG	China	Professor, director of Laboratory of Marine Organism Taxonomy & Phylogeny, Marine Biological Museum, Chinese Academy of Sciences	deep-sea seamount biodiversity and taxonomy of mollusks	M
Amy Baco	USA	Professor, Department of Earth, Ocean and Atmospheric Sciences at Florida State University	seamounts and deep-sea corals	F
Yeqiang Shu	China	Professor, Chinese Academy of Sciences	Seamount trapped waves, rare earth elements budget	M
Jose Angel Alvarez Perez	Brazil	Professor, Universidade do Vale do Itajaí	Seamount and cephalopods	M
Malcolm Ross Clark	New Zealand	Principal Scientist (Deepwater fisheries), National Institute of Water and Atmospheric Research	South Pacific seamounts	M

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5m: Abyssal plains				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Eric Okuku	Kenya	Principal Research Scientist, Kenya Marine and Fisheries Research Institute		M
<b>Co-Lead Members</b>				
Yutaka Michida	Japan	Director, Center for International Collaboration Atmosphere and Ocean Research Institute (AORI), The University of Tokyo		M
<b>Coordinating Author</b>				
Moriaki Yasuhara	Japan	University of Hong Kong	Benthic ecology	M
<b>Members of the writing team</b>				
Paul V. R. Snelgrove	Canada	Professor of Biological Oceanography, Memorial University of Newfoundland	Benthic ecology	M
Dan O. B. Jones	UK	Professor, National Oceanography Centre	Macroecology, community ecology and assessment of environmental impacts from mining and oil and gas activities	M
Malcolm R. Clark	New Zealand	Principal Scientist, National Institute of Water and Atmospheric Research	Deep-sea ecosystems, fisheries, seabed mining potential	M
Jeroen Ingels	Belgium	National Institute of Water and Atmospheric Research	Benthic ecology	M
Roberto Danovaro	Italy	Professor, Polytechnic University of Marche	Deep-sea ecology	M
Craig R. McClain	USA	Professor, University of Louisiana, Lafayette	Environmental Biology	M
Jingwen Zhang	China	Research Assistant, School of Biological Sciences, The University of Hong Kong	Deep-sea paleobiology	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5n: Pelagic domain				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Rafael González-Quirós	Spain	DIRECTOR DEL CENTRO OCEANOGRÁFICO DE GIJÓN INSTITUTO ESPAÑOL DE OCEANOGRAFÍA (IEO-CSIC)		M
Co-Lead Members				
Tymon Zielinski	Poland	Institute of Oceanology, Polish Academy of Sciences (IO PAN), Sopot, Poland. - Professor.		M
Coordinating Author				
Marta Coll	Spain	Institute of Marine Science (ICM) - CSIC, Spain	marine food webs, biodiversity, small pelagic fish, climate change, fisheries, ecosystem models	F
Members of the writing team				
Camila Indira Artana	Argentina	Researcher, IRD, France	physical oceanography, extreme events	F
José Maria Bellido	Spain	Professor, IEO-Murcia, CSIC, Spain	small pelagic fish, fisheries, discards, sharks	M
Peter Croot	New Zealand			M
Antonio Di Natale	Italy	Fondazione Acquario di Genova Onlus, Italy	large predators, marine mammals	M
Flavia Lucena Frédou	Brazil			F
Susana Garrido	Portugal	Senior Researcher, Portuguese Institute of Sea and Atmosphere, Portugal	small pelagic fish, trophic ecology, microplastics	F
Ryan Henegan	Australia	Griffith University, Australia	size spectra, future changes and scenarios, global ecological modelling	M
Brian Hunt	South Africa	University of British Columbia, Canada	pelagic food webs, plankton quality and quantity changes	M
Francisco Ramírez	Spain	Tenured researcher, Institute of Marine Science (ICM) - CSIC, Spain	seabirds, penguins, cumulative impacts	M
James J. Ruzicka	USA	Research Marine Biologist, NOAA Pacific Islands Fisheries Science Center	small pelagic fish, trophic ecology, MHW and oil spills	M

Lynne J. Shannon	South Africa	Principal Scientist/Deputy Director, University of Cape Town, Cape Town, South Africa	Upwelling ecosystems, small pelagic fish, marine food webs, regional ecological modelling	F
Lloyd Spencer Davis	New Zealand	Stuart Professor of Science Communication , University of Otago, New Zealand	seabirds, megafauna	M
Akinori Takasuka	Japan	Professor, University of Tokyo	early life history of pelagic fish, physiological changes	M

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5o: Ridges, plateaus and trenches				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expert Science and Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Co-Lead Members</b>				
Yutaka Michida	Japan	Director, Center for International Collaboration Atmosphere and Ocean Research Institute (AORI), The University of Tokyo		M
<b>Coordinating Author</b>				
Ana Colaço	Portugal	Scientist, Institute of Marine Sciences - Okeanos, University of the Azores, Rua Professor Doutor Frederico Machado 4, 9901-862 Horta, Portugal	OVER 20 YEARS EXPERIENCE IN DEEP-SEA BENTHIC ECOLOGY	F
<b>Members of the writing team</b>				
Anna Metaxas	Canada/Greece	"Project co-lead, Department of Oceanography, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4R2	Deepsea Ecosystems	F
Hiroimi Kayama WATANABE	Japan	Senior Research Associate, Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Writing team of WOA I and II	F
Imants George PRIEDE	UK/Latvia	Professor Emeritus, University of Aberdeen	Participant in and leader of deep-sea expeditions to the North Atlantic including the Mid-Atlantic Ridge, North Pacific, Mediterranean. Author of over 150 papers and four books including studies on Ridges and Hadal Trenches, over 10,000 citations on Google Scholar. Participate in WOA II.	M

			Coordinator of UK national and EU deep-sea research programmes.	
Jose Angel Alvarez Perez	Brazil	University of Vale do Itajaí – UNIVALI	Biological oceanographer, Coordinated scientific projects in support of deep-sea fisheries management in Brazil; participated in international deep-sea ecology projects including MAR ECO (Census of Marine Life), Quelle (JAMSTEC), EAF Nansen, iAtlantic, Challenger 150. Contributed with writing of WOA I - Chapter 36B. South Atlantic Ocean AND Chapter 36F. Open Ocean Deep Sea.	M
Malcolm Ross Clark	New Zealand	Principal Scientist (deep-sea ecology and fisheries), National Institute of Water & Atmospheric Research (NIWA), New Zealand	40 years experience in researching deep-sea habitats, fisheries, and management. Numerous surveys on ridges, trenches and plateaux in the SW pacific region.	M
Ana Margarida Medrôa de Matos Hilário	Portugal	Researcher, Centre for Environmental and Marine Studies, University of Aveiro	Dr Ana Hilario is a marine biology with more than 20 years of experience (including PhD) in the study of deep-sea ecosystems.	F
Angelika Brandt	Germany	Head of Marine Zoology department in Senckenberg and Professor at Goethe University Frankfurt, Senckenberg Research Institute and Natural History Museum and Goethe University in Frankfurt	Research focus: systematics, ecology, evolution, biogeography and biodiversity of macrofauna with focus on Isopoda (Crustacea, Peracarida), primarily from deep sea and polar habitats.	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5p: Hydrothermal vents and cold seeps				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Joshua Tuhumwire	Uganda	Founder and Managing Director of Gondwana Geoscience Consulting Ltd		M
<b>Co-Lead Members</b>				
Juying Wang	China	Director General, PHD National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China		F
<b>Coordinating Author</b>				
Lisa Levin	USA	Scripps Institution of Oceanography, University of California, San Diego	Contributing author to WOA I Ch. 34 (Hydrothermal vents and seeps) CH. 36F Open Ocean Deep sea; Coordinating author for WOA II (slopes and canyons); 25 y experience researching methane seeps, some vent expertise	F
<b>Members of the writing team</b>				
Elva Escobar	Mexico	Institute of Marine Sciences and Limnology, Universidad Nacional Autónoma de México	Contributor to Chapters 29 (Marine genetic resources) and 35 (Extent of biodiversity assessment) of WOA I. Chapter 7R (Hydrothermal vents and Seeps in WOA II. PhD, National University of Mexico. Published on food-webs of hydrothermal vents, methane/oil seeps, etc.	F
Nomikou Paraskevi	Greece	Dept of Geology and Geoenvironment, National and Kapodistrian University of Athens	Contributing author to WOA II Chapter 7 R hydrothermal vents and seeps). PhD in geology, University of Athens. Published on submarine volcanoes, Mid-Atlantic ridge, etc.	F
Ana Colaço	Portugal	Institute of Marine Research and Marine and Environmental Sciences Centre, University of the Azores, Portugal	Contributing author to Chapter 7R WOA II (Hydrothermal vents and seeps). PhD, University of Lisbon. Published on seamounts, resilience of deep-sea fauna, etc.	F

Julia Sigwart	USA	Senckenbert Research Institute, Germany	Contributing author to Chapter 7R WOA II (Hydrothermal vents and seeps). PhD, Queen's University, Belfast, Northern Ireland. Published on species theory, hydrothermal vents, etc.	F
Hiroimi Watanabe	Japan	Japan Agency for Marine Science and Technology, Japan	Contributing author to Chapter 7R WOA II (Hydrothermal vents and seeps). PhD, University of Tokyo. Published on hydrothermal-vent and trench barnacles and gastropods, impacts of deep-sea mining, etc.	F
Anna Metaxas	Canada	Professor, Department of Oceanography Dalhousie University, Halifax, Nova Scotia, Canada	PhD on phytoplankton, Dalhousie University. Contributor to Chapter 34 (Global patterns of Marine Biodiversity) in WOAI and Chapter 7R (Hydrothermal Vents and Seeps in WOA II). Published on epibenthic megafauna, hydrothermal vents, rocky substrates, etc.	F
Nadine Le Bris	France	Sorbonne University, Paris	Convenor of writing team for Chapter 45 (Hydrothermal vents and cold seeps) in WOA I and cConvenor for Chapter 7R (Hydrothermal Vents and Seeps) in WOA II. Doctorate in pollution chemistry, University of Paris 7. Publications on hydrothermal vents, bacteria of wood-falls, sulphide monitoring, etc.	F
Samuel Olatunde Popoola	Nigeria	Nigerian Institute for Oceanography & Marine Research, Nigeria	African Deep Seabed Research (ADSR) Expert and Ambassador to the International Seabed Authority.	M
Yadong Zhou	China	Second Institute of Oceanography, China	Ecology, evolution and genetics of vent biota on the Indian Ridge; 68 publications	M
Verena Tunnicliffe	Canada	Biology and Earth/Ocean Sciences, University of Victoria, British Columbia, Canada	Contributor to Chapters 34 (Global patterns of marine biodiversity) and 35 (Extent of assessment) of WOA I and Chapter 7R (Hydrothermal Vents and Seeps in WOA II). PhD, Victoria University, Canada. Published on hydrothermal-vent fauna	F

Paulo Sumida	Brazil	Universidade de São Paulo	Deep-sea biology SW Atlantic, chemosynthetic ecosystems including pockmarks and carbonate mounds	M
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Section 4: Change since the second World Ocean Assessment  
 Chapter 5: Habitats  
 Sub-chapter 5q: Sargasso Sea

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Mariamalia Rodríguez	Costa Rica	Programme coordinator - DOALOS/Norway programmes of assistance to meet the strategic capacity needs of developing states in the field of ocean governance and the law of the sea. Post-Doctoral Research Fellow, World Maritime University - Sasakawa Global Ocean Institute. Empowering Women for the United Nations Decade of Ocean Science for Sustainable Development Project. Consultant for the Pew Charitable Trust		F
<b>Co-Lead Members</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expert Group on Science and Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Coordinating Author</b>				
David Vousden	UK/Ireland	Chief Technical Advisor, GEF-UNDP-IOC Sargasso Sea project	LMEs, Ocean Governance. 35 Years' experience in ocean governance, especially within UN organisations. Extensive experience with the TDA>SAP approach, which the project is adapting for the high seas.	M
<b>Members of the writing team</b>				
David Freestone	UK	Executive Secretary, Sargasso Sea Commission	Governance and Legislation. Significant experience on LOSC, 10 years' experience on the international law related to the	M

			conservation of the Sargasso Sea.	
Tammy Warren	UK	Senior Marine Resources Officer, Government of Bermuda	Fisheries, Governance. As a fisheries officer for the Bermuda Government, Tammy has significant experience in local Bermuda biology and ecology, fisheries monitoring and governance, and engagement by Bermuda with international ocean organisations, including ICCAT, SSC, and UN, etc.	F
Brian Luckhurst	UK	Retired, Government of Bermuda. Observer focal point at ICCAT, WECAFC	Brian has significant experience in fisheries biology, ecology, monitoring and governance in Bermuda. He also has experience in ocean diplomacy, making contributions to ICCAT and WECAFC on SSC's behalf.	M
Laurie Kell	UK	Professor at Imperial College London, Faculty of Natural Sciences, Centre for Environmental Policy, also an observer focal point for ICCAT.	Experience in fisheries assessment, monitoring, modeling, diplomacy. Pioneered the use of Management Strategy Evaluation in Europe to implement the Precautionary Approach, highly relevant to the Sargasso Sea.	M
Ana Colaço	Portugal	Senior Researcher, University of the Azores; Sargasso Sea Commissioner	With a PhD in ecology and biosystematics, Ana leads research and development projects on the deep sea. She specializes on hydrothermal vent ecosystems, the trophic ecology of deep-sea systems, benthic ecology, biodiversity and ecosystem functioning. She has long experience in international cooperation both at the European level (MAST III, FP5; FP6, FP7) and bilateral cooperation.	F
Alex Rogers	UK	Science Director, Ocean Census	Marine biology, molecular ecology. Has experience contributing to an academic article on the utility of big data and AI for high seas governance, with particular focus on the Sargasso Sea. Experience in	M

			environmental law, especially law of the high seas. Experience in communicating to scientific and governmental bodies including UN bodies.	
Fae Sapsford	UK	PhD candidate at World Maritime University- Sasakawa Global Ocean Institute, Malmo, Sweden	Fae Sapsford	F
Beatrice Smith	US	Duke University	Atolls, coastal and island lagoons	F

Section 4: Change since the second World Ocean Assessment				
Chapter 5: Habitats				
Sub-chapter 5r: Fjord systems				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Co-Lead Members</b>				
Ian Butler	Australia	Fisheries Scientist at the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) - Canberra		M
<b>Coordinating Author</b>				
Jose L. Iriarte	Chile	Full professor, Universidad Austral de Chile	Oceanography - Plakton Ecology: Patagonia and Antarctica ecosystems	M
<b>Members of the writing team</b>				
Sofia Ribeiro	Portugal	Senior research scientist, Geological Survey of Denmark and Greenland and University of Copenhagen	Greenland fjords; paleoecology; long-term ice-ocean-ecosystem interactions; sediment records	F
Agneta Fransson	Norway	Professor, Norwegian Polar Institute	Oceanography, biogeochemistry, carbon cycling, ocean acidification, impacts of melting glaciers and sea ice in Arctic fjords including Svalbard, NE Greenland, Northern Norway	F
Lorenz Meire	Belgium	Senior Scientist, Greenland Institute of Natural Resources	Ice-ocean interaction, biogeochemistry, carbon cycling and food web dynamics in Greenland fjords	M
Fiammetta Straneo	Italy/USA	Professor, Scripps Institution of Oceanography	Physical Oceanography of fjords, Fjord - large scale ocean exchanges, Glacier-ocean interactions, Greenland/Arctic	F
Jennifer M. Jackson	Canada	Section Head, Research in Ocean Properties and Ecosystem Stressors, Institute of Ocean Sciences,	Physical oceanography of British Columbia fjords; warming and loss of oxygen; long	F

		Fisheries and Oceans Canada	time series; atmosphere-ocean interactions; shelf-fjord interactions	
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Section 4: Change since the second World Ocean Assessment  
 Chapter 6: Pressures: Invasive species

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Maria Bebianno	Portugal	Professora Catedrática Jubilada Full Professor Centre of Marine and Environmental Research (CIMA) Aquatic Research Network (ARNET) Member of the Group of Experts of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process) of the United Nations Member of the Portuguese National Committee for the Ocean Decade Universidade do Algarve University of Algarve Campus de Gambelas		F
<b>Co-Lead Members</b>				
Kwasi Appeaning Addo	Ghana	Professor, Institute for Environment and Sanitation Studies/Department of Marine and Fisheries Sciences, College of Basic and Applied Sciences, University of Ghana.		M
<b>Coordinating Author</b>				
Thomas W. Therriault	Canada	Research Scientist, Fisheries and Oceans Canada (DFO)	Contribution to WOA II; expert of conservation biology, marine biology, invasive species, ecology, marine ecology	M
<b>Members of the writing team</b>				
Chad Hewitt	USA	Provost (Professor), Office of the Vice Chancellor, Lincoln University, Lincoln, 7647, New Zealand	Expertise on understanding invasive alien species ecology, biogeography and management	M
Bella Galil	Israel	Curator of Crustacea, Steinhardt Museum of Natural History, Tel Aviv University	Marine biology with emphasis on anthropogenic changes of macrobenthos in coastal	F

			and deep waters, marine bioinvasions	
Graeme Inglis	New Zealand	Principal Scientist, National Institute of Water & Atmospheric Research Ltd (NIWA)	Marine biosecurity, surveillance design and implementation, environmental monitoring and assessment, risk assessment, estuarine ecology	M
Evangelina Schwindt	Argentina	Editor-in-Chief. Biological Invasions. Springer	Marine invasive species: ecology, biology, biogeography. Management and government decisions on marine invasive species.	F
Alejandro Bortolus	Argentina	Associate (Guest) Editor – Aquatic Invasions	Coastal ecology and society. Marine-coastal invasive species. Historical Ecology. Ecology-Taxonomy Interface.	M
Tammy Robinson	South Africa	Research Chair: Managing invasions in protected areas, Stellenbosch University (Faculty of Science)	Impacts of marine alien species; the spread of invasive species; evidence-based management of these biota	F
Susanna Carvalho	Portugal	Associate Professor, King Abdullah University of Science and Technology (KAUST)	Mitigation of fishing and aquaculture impacts, ecosystem restoration and integrated management	F
Henn Ojaveer	Estonia	Professor of Marine Ecosystems, University of Tartu, Faculty of Social Sciences, Pärnu College	Biosciences and environment; ecology, biosystematics and physiology	M
Jinho Chae	South Korea	Head Researcher, Marine Environmental Research & Information Laboratory (MERIL)	Marine biology, marine ecology, marine ecosystem monitoring, assessment, conservation and restoration	M

Section 4: Change since the second World Ocean Assessment Chapter 6: Pressures: Erosion and sedimentation				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Juying Wang	China	Director General, PHD National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China		F
<b>Co-Lead Members</b>				
Eric Okuku	Kenya	Principal Research Scientist, Kenya Marine and Fisheries Research Institute		M
<b>Coordinating Author</b>				
Luciana S. Esteves	UK	Associate Professor, Bournemouth University	Coastal Erosion	F
<b>Members of the writing team</b>				
Niki Evelpidou	Greece	Professor, National and Kapodistrian University of Athens	Coastal Erosion	F
Mabel Anim	Ghana	Lecturer, University of Cape Coast	Coastal Erosion	F
Trang Minh Duong	The Netherlands	Assistant Professor, University of Twente and Senior lecturer, IHE Delft Institute for Water Education	Coastal Erosion	F
Jarbas Bonetti	Brazil	Professor, Universidade Federal de Santa Catarina	Coastal Erosion	M
Matthew Elliot	Australia	Owner/Director, Demarawa	Coastal Erosion	M
Bronwyn Goble	South Africa	Senior Scientist, Oceanographic Research Institute	Coastal Erosion	F

Section 4: Change since the second World Ocean Assessment Chapter 6: Pressures: Marine infrastructure outside of coastal areas				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Vasily Smolyanitsky	Russian Federation	Leading scientist-head of laboratory Arctic and Antarctic Research Institute (AARI)		M
Co-Lead Members				
Kwasi Appeaning Addo	Ghana	Professor, Institute for Environment and Sanitation Studies/Department of Marine and Fisheries Sciences, College of Basic and Applied Sciences, University of Ghana.		M
Coordinating Author				
Constantine Michailides	Greece	Assistant Professor, International Hellenic University - Ass. Professor	Marine - Hydraulic Works	M
Members of the writing team				
Liliana Rusu	Romania	Professor, University of Galati - Professor	Marine hydrodynamics	F
Wei Shi	China	Assoc. Professor, Dalian University of Technology	Marine structures	M
Stefanos Xenarios	Australia	Researcher, CSIRO, the Commonwealth Scientific and Industrial Research Organisation- the Australian Government -	Water and climate change - Socio economic management	M
Rodrigo Rojas	Costa Rica	Professor, National University of Costa Rica	Offshore Energy Task Force at ICE Costa Rica. Regional Coordinator of REMAR-Cyted. Coordinator of INORE.	M
Arshad Rawat	Mauritius	Department for Continental Shelf and Maritime Zones Administration and Exploration	Director - Oceanography / Marine Geosciences Unit	M
Sérgio Jesus	Portugal	SiPLAB, FCT - Univ. of Algarve, Campus de Gambelas	Sound propagation in the ocean	M
Paulette Bynoe	Guyana	Full Professor and the Dean of the School of Graduate Studies and Research at the University of Guyana  UNFCCC: ExCom Member of the WIM for Loss and Damage, and	Marine environment, climate change and resilience	F

		Co-Chair of the Enforcement Branch of the Compliance Committee for the Kyoto Protocol.		
Alex Faerman	Israel	Company	Marine Engineering	M
Ellinor Forje	Sweden	Company	Economic inequality, International governance	F
Ongezwa Mpisana	South Africa	Company	Advisor Special Political Missions	F
Senia Febrica	Indonesia	School of Global Affairs, Lancaster University, UK and Segara Nusa Nawasena, Indonesia	Illegal activities, Maritime security	F
Eva Loukogeorgaki	Greece	Aristotle University	Marine Structures	F
Jorge Ramos	Portugal	University of Algarve	Ocean Engineering	M

Section 4: Change since the second World Ocean Assessment Chapter 6: Pressures: Cumulative effects				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Tymon Zielinski	Poland	Institute of Oceanology, Polish Academy of Sciences (IO PAN), Sopot, Poland. - Professor.		M
Co-Lead Members				
Kwasi Appeaning Addo	Ghana	Professor, Institute for Environment and Sanitation Studies/Department of Marine and Fisheries Sciences, College of Basic and Applied Sciences, University of Ghana.		M
Coordinating Author				
Piers Dunstan	Australia	Senior Principal Research Scientist at CSIRO	Cumulative effects / Benthic ecology	M
Members of the writing team				
Vanessa Stelzenmüller	Denmark	Scientific director and research unit leader, Thünen Institute of Sea Fisheries	Cumulative effects / Marine spatial planning	F
Jesper H. Andersen	Norway	Chief scientist, Norwegian Institute for Water Research	Inputs of nutrients to the marine environment / Cumulative effects	M
Manuel Hildago	Spain	Research scientist, Spanish National Research Council (CSIC) / Spanish Institute of Oceanography (IEO)	Fisheries science (ecosystem based fisheries management) / Cumulative effects	M
Skip Woolley	Australia	Biostatistian, CSIRO Oceans and Atmosphere	Expertise in development, implement and interpretation of statistical modelling approaches to quantitatively describe where multiple species are and what processes shape their distributions	M
Sam Dupont	Sweden	Senior Lecturer, Manager, Associate Professor, University of Gothenburg	Ocean acidification / Cumulative effects	M
Beth Fulton	Australia	Senior Principal Research Scientist, CSIRO Environment	Expertise in developing system-scale decision support tools in support of sustainable management of potentially competing uses of marine environments and adaptation to global change	F
Natalie Ban	Canada	Research Fellow (Academic Level B), Australian Research Council Centre of Excellence for Coral	Ethnoecology: traditional ecological knowledge, traditional methods of resource	F

		Reef Studies, James Cook University, Australia	<p>management, marine and coastal ethnoecology</p> <p>Conservation biology: marine conservation, resource management, conservation planning, marine restoration, marine ecology, cumulative effects, multiple stressors, geographic information systems</p> <p>Social-ecological systems: common pool resources, interlinkages between social and ecological systems, ecological effectiveness of environmental governance, social effectiveness of conservation</p>	
Kerry Sink	South Africa	Principal scientist, South African National Biodiversity Institute	Benthic ecology / Cold-water corals and sponges	F
Nohora Galvis	Colombia	Postdoctoral researcher: Cryptic speciation in coralline algae, University of North Carolina at Chapel Hill, USA	Analysis of the Decision Support Systems for the Conservation of the Capurgana-Cabo Tiburón and Varadero Coral Reefs in Colombia	F

Section 4: Change since the second World Ocean Assessment Chapter 6: Pressures: Pollution				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Maria Bebianno	Portugal	Professora Catedrática Jubilada Full Professor Centre of Marine and Environmental Research (CIMA) Aquatic Research Network (ARNET) Member of the Group of Experts of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process) of the United Nations Member of the Portuguese National Committee for the Ocean Decade Universidade do Algarve University of Algarve Campus de Gambelas		F
<b>Co-Lead Members</b>				
Kwasi Appeaning Addo	Ghana	Professor, Institute for Environment and Sanitation Studies/Department of Marine and Fisheries Sciences, College of Basic and Applied Sciences, University of Ghana.		M
<b>Coordinating Author</b>				
Colin Moffat (Liquids, solid and atmospheric inputs from land-based sources)	UK	Visiting Professor, Robert Gordon University	Led on production of OSPAR assessments and of assessments of the seas around Scotland.	M
Francois Galgani (Plastics)	France	Senior Scientist, IFREMER	Expert marine litter (UNEP, regional sea conventions, UNEA SAC, EU commission, GESAMP), convenor of the WOA II chapter 12 (solid waste, marine litter)	M
Ralf Ebinghaus	Germany	Hereon Institute of Coastal Environmental	Research focuses on the occurrence, fate,	M

(Pharmaceutuicias and personal care products)		Chemistry	and relevance of long-lived and bio-accumulative hazardous substances in coastal, marine, and polar environments	
Lars Sonesten (Atmospheric inputs)	Sweden	Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden (Researcher, Senior Environmental Analyst, Head of Department since 2019-01-01)	Wide experience in human pressures on the Northeast Atlantic and Baltic Sea within the UN Regional Sea convention areas of OSPAR and HELCOM, respectively, incl chairman of two working groups since 2014.	M
Alan Simcock (Radioactive compounds)	UK	Joint Coordinator of the first and second United Nations' World Ocean Assessments	Led the production of WOA 1 and WOA 2	M
<b>Members of the writing team</b>				
Chinenye Aja-Nwachukwu	Nigeria	Principal Marine Environment Management Officer, Nigerian Maritime Administration and Safety Agency	Developed the monitoring requirements for FPSO, FSU, FSRU for Marine Environmental Management Department (MEMD) for Nigerian Maritime Administration and Safety Agency (NIMASA).	F
Kwang-Sik Choi	Republic of Korea	Professor, Department of Marine Life Science, Jeju National University	Research focuses on various topics in molluscan biology, including effects of environmental impacts and parasitic infections on reproductive physiology and immune function of oysters, clams, and abalones.	M
Dao Van Hien	Vietnam	Principal Lecturer, VNU University of Science, Vietnam National University	Experience in environmental management; marine environment, waste management especially dredged material management, plastic waste management, dumping of waste at sea	M
Christos Ioakeimidis	Greece	UN Environment/MAP	Mediterranean Pollution Assessment and Control Programme (MED POL); Project Manager: EU-funded projects Marine Litter MED, Marine Litter MED II, IMAP-MPA	M
Laurent Lebreton	France	Associate Programme Management Officer (Marine Litter), The Ocean Cleanup	Recent publication includes "Extent and Reproduction of Coastal Species on Plastic	M

			Debris in the North Pacific Subtropical Gyre.” Nature Ecology & Evolution 7(5):687–97. doi: 10.1038/s41559-023-01997-y.	
Paula Sobral	Portugal	Associate Professor, NOVA School of Science and Technology - MARE Marine and Environmental Sciences Centre	Marine litter and microplastics mapping and characterization of its sources and sinks and the effects of microplastics contamination by persistent organic pollutants on marine organisms and integration of biomarkers from molecular to organism level.	F
Alexander Turra	Brazil	Full professor, Oceanographic Institute, São Paulo University	Relevant publication includes Three-dimensional distribution of plastic pellets in sandy beaches: shifting paradigms. Nature Sci. Rep., 4: 4435.	M
Stefanie Werner	Germany	Scientific officer, German Environment Agency (Umweltbundesamt)	Focuses on implementation of EU Marine Strategy Framework Directive with special consideration of Descriptor 10 (Marine Litter)	F
Shiye Zhao	China	Researcher, Japan Agency for Marine-Earth Science and Technology	Dispersal and consequences of the anthropogenic emissions of oceanic particulate matter	M
Vanessa Sarah Salvo	Italy	Researcher, Institut de Ciències del Mar	1) Spanish National Council of Research/ Citizen science from data to policies; 2) Coordinator of the Spanish delegation of NGOs / Surfrider Foundation Europe. 3) Part of Break Free From Plastic Coalition at EU level 4). I was Part of experts observer in the UNEP/Map Regional Plan for Marine Litter in the Med. 5). part of Scientists Coalition for an effective Plastic Treaty 6). coordinator IOC_UNESCO / Ocean Cities Network programme/policy axis, 7). Spanish working group of experts for the MSFD /Marine litter. 8) Posidonia Green	F

			Project Spanish/Italian NGO, on plastic pollution (scientific director)	
Judith Weis	USA	Rutgers University, Professor emerita	Focuses on marine biology, estuaries, salt marshes, and invasive species. Over 250 refereed publication (8 on plastic pollution), six books (one on fibers)	F
Diana Souza Moura	UK	Research Fellow, Robert Gordon University	Responsible for investigating the degradation of harmful marine algae and their metabolites using photocatalysis, more specifically, graphitic carbon nitride coated glass beads illuminated by ultraviolet LED lights.	F
Thomas Maes	Belgium	Senior Scientist, SEAMOHT Ltd	Marine litter, microplastics, POP, ecotoxicology	M
Atsuhiko Isobe	Japan	Professor, Ocean Dynamics group, Kyushu University, Kasuga 816-8580, Japan	physical oceanography in coastal and shelf waters, plastic marine debris	M
Zhiyong Xie	China	Senior research scientist, Helmholtz-Zentrum Hereon	Focuses on biogeochemistry processes of legacy and emerging organic contaminants in the global ocean, including long-range transport via atmosphere and ocean currents, airsea/ice exchange, and bioaccumulation in marine food web.	M
Rainer Lohmann	USA	Professor of Oceanography, University of Rhode Island, USA	Editor, Environmental Toxicology and Chemistry	M
Helena Reinardy	UK	Teaching Fellow/Researcher, University of the Highlands and Islands, Scottish Association of Marine Science	Expertise in ecotoxicologist researching the changing marine environment, such as increasing temperatures, altered pH, and presence of pollutants and the complex effects on aquatic organisms	F
Benjamin Osei Botwe	Ghana			M
Ibrahim Issifu	Ghana			M

Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 1: Food systems				
Sub-chapter 1a: Medium and large-scale fishing				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Chang-Ik Zhang	Republic of Korea	Professor, World Fisheries University Professor Emeritus, Pukyong University		M
<b>Co-Lead Members</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Coordinating Author</b>				
Rashid Sumaila	Canada	University of British Columbia	Medium and large-scale fisheries	M
<b>Members of the writing team</b>				
Christopher Narinder Singh Poonian	UK	Principal Marine Consultant, KAUST Beacon Development, KAUST National Transformation Institute, Innovation Cluster, 4700, King Abdullah University of Science and Technology, 23955-6900, Thuwal, Saudi Arabia.	Indigenous and traditional owner knowledge, Tropical and sub-tropical corals	M
Patricia Carolina Rendall Rocha	Cape Verde	University of Coimbra, MARE – Marine and Environmental Sciences Centre / ARNET – Aquatic Research Network, Department of Life Sciences, Calçada Martim de Freitas, 3000-456 Coimbra, Portugal	Community-based fisheries management	F
Jamie Tam	Canada	Research Biologist, Fisheries and Oceans Canada (DFO)	DPSIR framework and its application	F
Esteban Victor Restrepo Uribe	USA	Vice-President for Science, International Seafood Sustainability Foundation	Fisheries science (traditional assessment)	M
Priyal Bunwaree	Mauritius	Senior Legal Counsel, Blue Marine Foundation	Illegal activities, Maritime security	F
Elizabeth Voges	Namibia	Executive Secretary, South East Atlantic	International governance	F

		Fisheries Organisation		
Easton White	USA	Assistant Professor, University of Cap	Ocean data and data repositories	M
Farheen Ahmad	India	Independent researcher	Ocean governance: Law of the sea	F
Sonia Crisogono	Portugal	Professor & Researcher, Universidade Católica Portuguesa	Ocean governance: MCS	F
Heejoong Kang	Republic of Korea	Fisheries scientist, National Institute of Fisheries Science	Ecosystem-based fisheries assessment	M
Shehu Latunji Akintola	Nigeria	Professor, Fisheries Department, Lagos State University	Traditional post-harvest practice	M
Ron Vave	Fiji	Assistant Professor in <sup>1</sup> Department of Pacific Islands Studies, and <sup>2</sup> Fisheries Graduate Program at the University of Hawai'i at Mānoa	Cultural heritage, Fish biology	M
Sebastian Villasante	Spain			M

Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 1: Food systems				
Sub-chapter 1b: Small-scale fishing including subsistence fishing				
Name	State	Affiliation	Relevant Experience	Gender
Lead Member				
Chang-Ik Zhang	Republic of Korea	Professor, World Fisheries University Professor Emeritus, Pukyong University		M
Co-Lead Members				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
Coordinating Author				
Derek Armitage	Canada	Professor, University of Waterloo (Professor)	Small-Scale Fishing(SSF) in general	M
Members of the writing team				
Denis Aheto	Ghana	University of Cape Coast (Professor)	Data-poor assessment, Mangrove management	M
Beodeul Kang	Republic of Korea	Professor, Pukyong National University (Professor)	Ecosystem-based SSF assessment and management	F
Tricia Lovell	Antigua and Barbuda	PhD Candidate and Research Assistant, Govt. of Antigua and Barbuda (Senior Officer - Fisheries)	Artisanal fisheries	F
Melissa Marschke	Canada	Professor, University of Ottawa (Professor)	Labour/trade and precarity	F
Prateep Nayak	Canada	Associate Professor, University of Waterloo (Professor)	SSF transitions	M
Micaela Trimble	Uruguay	Associate Researcher, SARAS Institute (Researcher)	Transitions and employment	F
Ron Vave	Fiji	Assistant Professor in <sup>1</sup> Department of Pacific Islands Studies, and <sup>2</sup> Fisheries Graduate Program at the University of Hawai'i at Mānoa	Cultural heritage, Fish biology	M
Nobuyuki Yagi	Japan	Professor, University of Tokyo (Professor)	Fishery heritage	M
Ife Okafor-Yarwoofed	UK	Lecturer in Sustainable Futures, University of Saint Andrews (Professor)	IUU, Subsidies	F
Cristina Pita	Portugal	University of Aveiro (Professor)	Gender, value chains	F
Ella-Kari Muhl	South Africa	University of Cape Town (Researcher/Lecturer)	SSF governance, scenarios	F
Deborah Prado	Brazil	Sea Institute, Federal University of São Paulo (Researcher)	SSF justice	F
Sisir Pradhan	India	NIRMAN/University of Waterloo (NGO)	SSF value chains, tenure	M

		consultant/ Researcher)		
Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 1: Food systems Sub-chapter 1c: Medium and large-scale aquaculture				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Co-Lead Members</b>				
Enrique Marschoff	Argentina	Argentine Representative to the Scientific Committee for the Conservation of Antarctic Marine Living Resources and its Working Groups from 1985 to date. Elected member of the 9 person CCAMLR Performance Review Panel. Advisor to the Secretaria de Pesca on the implementation of the CDS and to the Argentine Parliament in the drafting of the Law on Antarctic Fisheries		M
<b>Coordinating Author</b>				
Lynne Falconer	UK	Research Fellow, University of Stirling, UK	Research focuses on aquaculture and the environment, climate change effects on marine aquaculture, site selection, planning and licensing issues. Experience working on interdisciplinary aquaculture research topics. Has worked on aquaculture research projects in Asia, Africa, Europe, Central and South America covering fish and shellfish production as well as new and emerging systems such as IMTA and offshore	F

			production. Present research focuses mainly on Atlantic salmon in Europe.	
Members of the writing team				
Karen A. Alexander	UK	Assistant Professor, Heriott Watt University, UK	Research focuses on social sustainability of aquaculture, effects of aquaculture on local communities, and social license to operate. Experience in Europe and Australasia. Has worked with finfish, shellfish, seaweed and IMTA.	F
Hans Bjelland	Norway/Belgium	Research Director, SINTEF, Norway	Research focuses on development of aquaculture technology to improve fish welfare, reduce environmental impacts, and increase safety and productivity. Holds a broad industry network, identifies business needs and initiates research activities with fish farmers, service and technology providers and research partners. Experienced project manager of multidisciplinary teams. As Research Director of the aquaculture department at SINTEF, current focus is put on Atlantic salmon in Europe.	M
Ling Cao	China	Professor, Xiamen Univeristy, China	With her roots in a family-owned fish farm in China and training as both an agronomist and environmental scientist, Ling has strategically positioned her research at the crossroads of marine conservation and sustainable fisheries and aquaculture management. Beyond academia, Ling has actively contributed to policy dialogues, offering insights and recommendations that have influenced sustainable fisheries and aquaculture policies, particularly in China. She has spearheaded projects that forecast the future trajectory and vulnerabilities of global blue food production.	F

Ramón Filgueira	Spain	Associate Professor, Dalhousie University, Canada	Interdisciplinary research focusing on improving aquaculture sustainability, covering themes that range from fundamental to applied topics, e.g., carrying capacity, site selection, climate change effects, and social licence. Chair of the ICES Working Group on Social and Economic Dimensions of Aquaculture. Has worked on projects in North and South America, Europe, and Asia. Has provided advice to decision-makers regarding the potential expansion of aquaculture in Atlantic Canada and is currently involved in developing decision-support tools for site selection. Has worked with salmon, but most of his experience is in bivalve aquaculture.	M
Tonje Osmundsen	Norway	Professor, NTNU Social Research, Norway	Research focuses on the role of aquaculture industry in society, in terms of aquaculture's role as cornerstone businesses in rural communities, how public authorities regulate aquaculture as industrial food production, and industry led measures for more sustainable production like technology development, and private certification schemes. Osmundsen has led and worked on numerous research project on aquaculture, mainly on salmon aquaculture in Norway and internationally, and published internationally in renowned journals on these subjects.	F
Nikos Papandroulakis	Greece	Research Director, Hellenic Centre for Marine Research (HCMR), Greece	Research is focusing in developing advanced rearing technologies to optimize the performance of farmed species, expanding to develop mathematical models to improve husbandry practices. His work	M

			includes studying fish behavior, diversifying aquaculture production with fast-growing species, and contributing to offshore aquaculture concepts. He also investigates the effects of climate change on aquaculture studying the thermal tolerance of key species in the Mediterranean region contributing to the development of adaptation strategies. Currently is working towards developing tools for monitoring, operation, and decision-making systems, aligning with the concept of precision aquaculture.	
Pablo Sanchez-Jerez	Spain	Senior Lecturer, University of Alicante, Spain	Research on aquaculture environment interactions, expert on Mediterranean aquaculture, ecological and environmental impacts of aquaculture, aquaculture planning and zonation, aquaculture resource management, effects of climate change	M
Doris Soto	Chile	Principal Scientist, INCAR, Chile/University of Concepción, Chile	Aquaculture environmental interactions, nutrient cycling, eutrophication, global change effects on aquatic ecosystems including aquaculture, estimating carrying capacity for aquaculture, species invasions, ecosystem approach to aquaculture, climate change impacts and adaptation in aquaculture and climate change mitigation. Research experience on salmon farming, mussel farming, freshwater species farming, field and desk studies experience in Asia, Africa, Europe Latin America and the Caribbean. Planning, coordination and implementation of projects and initiatives, results based management approach, international cooperation for sustainable aquaculture development and translation of	F

			scientific findings to policy making	
Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 1: Food systems Sub-chapter 1d: Small-scale aquaculture				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Co-Lead Members</b>				
Katarina Viik	Estonia	Counselor, European Union Secretariat Government Office of Estonia		F
<b>Coordinating Author</b>				
Rohana Subasinghe	Sri Lanka	FUTUREFISH Co. Ltd., London, United Kingdom	He is a specialist in aquaculture development and aquatic animal health management. He retired from FAO in October 2015, while serving as the Chief of the Aquaculture Branch.	M
<b>Members of the writing team</b>				
Timothy O'Reilly	New Zealand	Managing Director/Owner of Taprobane Seafood, Sri Lanka	Seafood expert with 25 years operating within South and Southeast Asia	M
Shivaun Leonard	USA	Aquaculture Advisor, USDA-APHIS; US Department of Agriculture; USDA APHIS; Animal and Plant Health Inspection Service	Aquaculture governance (general) / International governance	F
Salin Krishna	India	Associate Professor and Chair, Aquaculture and Aquatic Resources Management (AARM), Asian Institute of Technology (AIT), Thailand	His research addresses climate-smart seafood production and consumption, novel hatchery/farming technologies for freshwater prawns and marine shrimp, sustainable management of aquatic ecosystems, and cleaner aquaculture systems. He has over 100 publications,	M

			including 52 peer-reviewed journal articles, four books/monographs, 12 book chapters, nine development project reports, and numerous conference presentations/abstracts.	
Elizabeth Cottier-Cook	UK	Professor, University of the Highlands and Islands, UK	Elizabeth Cottier-Cook is a Professor in Marine Biology at the University of the Highlands and Islands, based at the Scottish Association for Marine Science (SAMS), Fellow of the Royal Society of Biology (FRSB), Head of the SAMS/ United Nations University (UNU) Associate Institute, Principle Investigator for Global SeaweedSTAR, an international Global Challenge Research Fund programme, and Programme Leader for the Erasmus Mundus Joint Master Degree in Aquaculture, Environment and Society . She focuses on developing biosecurity tools and practices to minimise the introduction and spread of pests (many of which are invasive non-native species) and disease, particularly in developing countries. To date, her research programmes have involved working with a wide range of stakeholders including, the aquaculture and offshore renewable energy sector. I have collaborated with colleagues in China, Canada, Chile, New Zealand, USA, numerous countries in the Mediterranean and most recently the Philippines, Malaysia and Tanzania.	F
Doris Soto	Chile	Principal Scientist Interdisciplinary Center for Aquaculture Research INCAR Universidad de Concepción Concepción _ Puerto Montt CHILE	Ecosystem ecology with emphasis on aquaculture environmental interactions, nutrient cycling, eutrophication, global change effects on aquatic ecosystems including aquaculture, estimating carrying	F

			capacity for aquaculture, species invasions, ecosystem approach to aquaculture, climate change impacts and adaptation in aquaculture and climate change mitigation.	
Devin Bartley	USA	Adjunct Professor Michigan State University (USA) & Senior Research Associate World Fisheries Trust (CANADA)	Robin Welcomme Fellow, Fisheries and Wildlife Department, Michigan State University, USA. 2016-2020. Senior Fishery Resources Officer (Aquaculture & Inland Fisheries), Fisheries & Aquaculture Department, Food and Agriculture Organization of the United Nations. 3/2010 - present.	M
Carlos Wurman Gotfrit	Chile	President of CIDEEA, International Centre for Strategic Studies in Aquaculture, Executive Director AWARD Ltd, International Fisheries & Aquaculture consultants.	International Consultant in Aquaculture and Fisheries for over 35 years. Honorary Life Member, World Aquaculture Society. Former President of the Chilean Strategic Salmon Program, and former Manager of Marine Resources ( Fisheries and Aquaculture), Fundación Chile, one of the main technology transfer and economic diversification institutions.	M
Blessing Mboma Mapfumo	Zimbabwe/South Africa	World Aquaculture Society African Union Development Agency (AUDA-NEPAD) Information Network	International relations practitioner on fisheries and aquaculture matters; International fish trade and small scale fisheries development expert Networks development expert; Writer of numerous published articles on fish trade and aquaculture.	M
Antonio Garza de Yta	Mexico	Chief Operations Officer (COO) of Blue Aqua International Gulf LLC; Vice President, International Centre for Strategic Studies in Aquaculture (CIDEEA); President, Aquaculture without Frontiers (AwF)	Former Senior Advisor for Aquaculture for the Sustainable Technologies & Innovation Development Company (AWJ Innovation) in Oman; Past-President of the World Aquaculture Society (WAS)	M

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 1: Food systems Sub-chapter 1e: Food processing				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
<b>Co-Lead Members</b>				
Tymon Zielinski	Poland	Institute of Oceanology, Polish Academy of Sciences (IO PAN), Sopot, Poland. - Professor.		M
<b>Coordinating Author</b>				
Ahmed Khan	Canada	Chief Fisheries Officer, African Development Bank	Chief Fisheries Officer at AfDB for 6 years in addition to fisheries policy consultancy, value chain assessment, intra-regional trade, fisheries research for development, investments and financing fish value chains, climate finance, regional economic development	
<b>Members of the writing team</b>				
Issifu Ibrahim	Ghana	Research Associate, Institute for the Oceans and Fisheries, UBC	PhD from Nagoya University with specialized expertise in fisheries management, the blue economy, fisheries economics, and ocean sustainability and governance.	M
Nicole Franz	Germany	Research Scholar, Stanford University	Expert in the political economy of sustainable development; previously small-scale fisheries lead at the UN Food and Agriculture Organization (FAO)	F
Weiwei Wang	China	AFDB	Portfolio management, business delivery, investment, blue economy and fisheries, agribusiness, and the African Development Bank Group.	M
Bernice Mclean	South Africa	Blue Economy Unit at African Union development Agency-NEPAD	PhD in Marine Policy with expertise in the blue economy, fish trade, and environmental and marine coastal	F

			governance.	
Ulrich Franklin Kouassi	Cote d'Ivoire	Minstry of Fisheries and Animal Resources (MIRAH), Cote d'Ivoire	Master's degree in fisheries policy and industrial engineering and statistical analyses	M
Tall Amadou	Senegal/France	GOPA Consultants, Abuja, Nigeria	Coordinator PESCA ECOWAS project. Doctor of Veterinary Medicine from the Agronomic & Veterinary Institute; expertise in market analysis for strategic market development, fish value chain improvement, and chain of custody rules	M
Katrina Hilundwa	Namibia	Fisheries Management & Industrial Officer, SADC	Master's degree in fisheries science and Expertise in value chain governance	F
Helguile Shep	Cote d'Ivoire	FAO, INFOPECHE	PhD in Fisheries maritime engineer and experience in fish value chain development and standards	M
Yajie Liu	Canada	The Norwegian College of Fishery Science	Associate Professor, expertise in fisheries economica and sustainable management of agroecosystem services	M
Shehu Latunji Akintola	Nigeria	Professor, Lagos State University	Professor with expertise in value chain governance and small-scale fisheries management and aquaculture.	M
Cristina Pita	Portugal	Principal Researcher, Department of Environment and Planning & Centre for Environmental and Marine Studies (CESAM), at the University of Aveiro, Portugal.	"PhD in Social and Environmental Sustainability from the University of Aberdeen. Contributor to the pool of experts on the socioeconomic aspects of fisheries for the United Nations World Ocean Assessment (UN-WOAI), with expertise in marine resources and coastal governance.	F
Kelly Harrel	USA	Ocean Outcomes	Excecutive Director at Ocean Outcomes with decades of experience in seafood industry. Skills in strategic Partnerships • Sustainable Fisheries • Social Entrepreneurship • Ocean Conservation	F
Louise Teh	Malaysia/Canada	Research Associate, the Institute for the Oceans and Fisheries, UBC	PhD from University of British Columbia, with expertise in Small-scale fisheries, socio-economic analysis of fisheries, coral	F

			reef conservation, scenario development and analysis, social-ecological systems, human dimensions of fisheries management.	
Colette Wabnitz	France/Germany	Lead Scientist, Centre for Ocean solutions, Standard University	Phd in Geography & fisheries science with expertise in interdisciplinary marine science and socio-ecological systems	F
Lowitt Kristen	Canada	Assistant Professor, Queen's University	PhD in Interdisciplinary Studies from Memorial University, with expertise in sustainable food systems, food sovereignty, and small-scale fisheries.	F
Bernadette Fregene	Nigeria	CGIAR research centers, International Institute of Tropical Agriculture (IITA)	PhD with expertise in aquaculture and fisheries development. Coordinator AfDB WorldFish Technology for African Agriculture Technology Transformation.	F
Ken Johnson	USA	Principal DEVCONIA LLC	Former PWC staff and AfDB consultant, Value chain expertise, fair trade and international development specialist	M
Margarida DosSantos Correia	Portugal	UNIDO	industrial development, fisheries processing and marketing, quality assurance and safety, quality infrastructure and policy harmonization	F
Ibukun J. Adewumi	Nigeria	Intergovernmental Oceanographic Commission of the UNESCO	Marine spatial planning Ocean governance: compliance, monitoring and enforcement	M
Kate Barclay	Australia	Professor and Director of the Climate, Society and Environment Research Centre (C-SERC), University of Technology Sydney	Fisheries governance	F
Motseki Hlatshwayo	South Africa	Technical Advisor Fisheries and Project Manager, SADC Secretariat	Aquaculture governance (co-governance)	M
Josephus Mammie	Sierra Leone	Head, Competent Authority and Fish Quality Assurance Division, Ministry of Fisheries and Marine Resource		M
Diop Hamady	USA			
Omar Penarubia	Philippines	Fishery Officer, FAO	Marine food processing	M

Eshete Dejen Dresilign	Ethiopia	Program Manager, InterGovernmental On Development (IGAD)		
Diop Mohamed	USA	Aquaculture Officer, FAO	Aquaculture science (traditional assessment)	M
Shakuntala Haraksingh Thilsted	Denmark	External nutrition adviser to CGIAR	Human health and ocean sourced nutrition	F

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 1: Food systems Sub-chapter 1f: Trade				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Jörn Schmidt	Germany	Chair of the Science Committee International Council for the Exploration of the Sea Senior Research Fellow, Marine Food Security Center for Ocean and Society (CEOS) Kiel Marine Science (KMS), Christian-Albrechts-Universität zu Kiel, Germany		M
<b>Co-Lead Members</b>				
Ian Butler	Australia	Fisheries Scientist at the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) - Canberra		M
<b>Coordinating Author</b>				
Jessica Gephart	USA	Assistant Professor, University of Washington	Seafood trade; Sustainable food systems	F
<b>Members of the writing team</b>				
Rashid Sumaila	Canada	University of British Columbia	Fisheries economics	M
Senia Febrica	UK	School of Global Affairs, Lancaster University, UK and Segara Nusa Nawasena, Indonesia	International relations	F
Cheol-Kyu Maeng	Republic of Korea	Associate Professor, Daejin University	International commerce	M
Frank Asche	Norway	Professor, University of Florida	Fisheries trade and economics	M
Anna Farmery	Australia	Senior Research Fellow, University of Wollongong	Small-scale fisheries and sustainable seafood markets	F
Cristina Pita	Portugal	Researcher, University of Aveiro	Small-scale fisheries, value chains, governance, sustainable seafood markets	F
Carmen Pedroza-Gutiérrez	Mexico	Investigadora Titular, Universidad Nacional Autónoma de México	SSF and gender; value chains and governance	F
Bolanle Erinsho	Ghana	Senior Lecturer, University of Cape Coast	International law and sustainable use of marine resources	F
Carlos Chavez	Chile	Profesor Titular (Professor), Universidad de Talca	Resource economics; aquaculture	M

Cathy Roheim	USA	Professor Emerita, University of Idaho	Fisheries economics; Seafood trade	F
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Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 2: Recreational fishing				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Chang-Ik Zhang	Republic of Korea	Professor, World Fisheries University Professor Emeritus, Pukyong University		M
<b>Co-Lead Members</b>				
Eric Okuku	Kenya	Principal Research Scientist, Kenya Marine and Fisheries Research Institute		M
<b>Coordinating Author</b>				
Sean Tracey	Australia	Institute for Marine and Antarctic Studies, University of Tasmania	Biological, ecological, impacts of fishing and human dimension	M
<b>Members of the writing team</b>				
Steven Cooke	Canada	Professor, Carlton University, Ottawa	Biological, ecological, impacts of fishing and human dimension	M
Kieran Hyder	UK	Principal Fisheries Scientist, CEFAS	Biological, ecological, impacts of fishing and human dimension	M
Asta Audzijonyte	Lithuania	Nature Research Center, Akademijos 2, Vilnius	Socio-ecological, bioeconomics, human dimension	F
Robert Arlinghaus	Germany	Professor, Humboldt-Universitat zu Berlin, Faculty of Life Science, Thaeer-Institute	Socio-ecological, bioeconomics, human dimension	M
Karina Ryan	Australia	PhD, Principal Research Scientist, Western Australian Fisheries and Marine Research Laboratories	Data collection and translation for management	F
Katia Freire	Brazil	PhD, Universidade Federal de Sergipe, Centro de Ciencias Agrarias Aplicadas. Cidade Universitaria	Recreational fisheries in general	F
Warren Potts	South Africa	Professor, Department of Ichthyology and Fisheries Science, Rhode University	Biological, ecological, impacts of fishing and human dimension	M
Dong-Hun Go	Republic of Korea	PhD, Senior Researcher, KMI	Fisheries economics. Recreational/sport/charter fishing	M
Pedro Pintassilgo	Portugal	PhD, Universidade do Algarve, Portugal	Bioeconomics, environmental and resource economics	M
Alicia Bugeja Said	Malta	PhD, Vice Minister for Fisheries, Malta	Fisheries governance and management	F

Meaghan Guckian	USA	PhD, Antioch University, New England	Human dimension and environmental policy	F
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Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 3: Energy Sub-chapter 3a: Renewables				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Katarina Viik	Estonia	Counselor, European Union Secretariat Government Office of Estonia		F
<b>Co-Lead Members</b>				
Rafael González-Quirós	Spain	DIRECTOR DEL CENTRO OCEANOGRÁFICO DE GIJÓN INSTITUTO ESPAÑOL DE OCEANOGRAFÍA (IEO-CSIC)		M
<b>Coordinating Author</b>				
Ewa Malgorzata Spiesz	Poland	Senior Energy Sustainability Advisor; Dutch Marine Energy Centre	Offshore and marine renewable energy development (legislation), Offshore and marine renewable energy development (technology)	F
<b>Members of the writing team</b>				
Freya Croft	Australia	Research fellow; Australian National Centre for Ocean Resources and Security at the University of Wollongong	Social dimensions of the Blue Economy (social impact)	F
Rayenda Brahmana	Indonesia	Lecturer; Coventry University	Blue financing, Fisheries economics (financing)	M
Jose Rodrigo Rojas	Costa Rica	Professor; Costa Rican National University	Offshore and marine renewable energy development (environmental impact),	M
Rebecca Williams	UK	Global Head of Offshore Wind; Global wind energy council (GWEC)	Offshore and marine renewable energy development (legislation), Offshore and marine renewable energy development (technology); renewable energy, climate change and energy transition expert	F
Ana Brito e Melo	Portugal	Senior advisor; WavEC - Offshore Renewables (R&D based consultant company)	Offshore and marine renewable energy development (legislation), Offshore and marine renewable energy development (technology)	F
Henrique Paiva de Paula	Brazil	Deputy Coordinator for energy transition, ANEEL - Brazilian Electricity Regulatory	Offshore and marine renewable energy development (legislation), Offshore and	M

		Agency	marine renewable energy development (technology)	
Deborah Greaves	UK	University of Oxford	Marine renewable energy, physical and numerical modelling of violent free surface flow and wave-structure interaction (technology)	F
Eric Mwangi Njoroge	Kenya	Chief Executive Officer and Founder; WIO Marine Limited	Offshore and marine renewable energy development (technology)	M
Isa Olalekan Elegbede	Nigeria	Brandenburg University of Technology (BTU), Germany Head of Research and Innovation, Saeio Global Fellow of the Future Earth Coasts (FEC) Deputy Chair, IUCN CEESP Governance, Equity and Rights Theme	marine renewables resources sustainability	M
Shenghui Li	China	Guangdong Ocean University, Zhanjiang, China, lecturer and researcher	environmental impact of offshore energy and MSP	F
Andrea Copping	USA	Pacific Northwest National Laboratory (PNNL), USA, senior researcher	environmental impact of offshore energy	F

Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 3: Energy				
Sub-chapter 3b: Non-renewables				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Maria Bebianno	Portugal	Professora Catedrática Jubilada Full Professor Centre of Marine and Environmental Research (CIMA) Aquatic Research Network (ARNET) Member of the Group of Experts of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process) of the United Nations Member of the Portuguese National Committee for the Ocean Decade Universidade do Algarve University of Algarve Campus de Gambelas		F
<b>Co-Lead Members</b>				
Katarina Viik	Estonia	Counselor, European Union Secretariat Government Office of Estonia		F
<b>Coordinating Author</b>				
Karen Breier	Argentina	Consultant-Secretary of Energy	Offshore Hydrocarbon Exploration and Exploitation-Geologic Surveys- Science communication-Practical experience working in offshore exploration on platform projects and technical knowledge facilitator	F
<b>Members of the writing team</b>				
Dapa Koffi Robert	Cote d Ivoire	Head of Production Operations Department- PETROCI the NOC	Practical knowledge of contingencies that arise from offshore facilities and production work Indicators in Oil and Gas exploration and production , Offshore hydrocarbon exploration and exploitation	M

Laís Palazzo Almada	Brazil	Director Technical Advisor and Civil Servant at Agência Nacional do Petróleo, Gás Natural e Biocombustíveis – ANP (National Agency for Oil, Natural Gas and Biofuels/Brazil) and Coordinator of Administrative Proceedings at the Environmental and Safety Department	Offshore and marine renewable energy development (legislation), Offshore hydrocarbon exploration and exploitation	F
Bjørn Einar Grøsvik	Norway	Research scientist- Norwegian Institute of Marine Research	Environmental impact on living organisms in the ocean, researcher of the consequences of hydrocarbon activity on life in the sea- Environmental impact assessments, Pollution: litter/plastics (micro and nanoplastics)	M
Gabriel Olmedo	Argentina	Consultant-Secretary of Energy	Work experience in offshore exploration, geodesy and mapping campaigns-Offshore hydrocarbon exploration and exploitation, Seabed mapping	M
Samantha Robb	South Africa	Lawyer and legal researcher-Qualified Lawyer-Independent Legal Consultant	Legal researcher focused on marine biodiversity protection, Energy transition and Ocean governance/law of the sea, Seabed mining	F
Sergio Jesus	Portugal	Professor-Univ. of Algarve	Research carried out on the consequences of exploratory activity, mainly seismic activity, on sea life-Ocean observing, Science, technology and innovation indicators and data	M
Ongezwa Mpisana	South Africa	Advisor Special Political Missions -United Nations Secretariat	political risk analysis, international cooperation, conflict resolution, and crisis management	F
Evangelia (Evina) Gontikaki	Greece	Foundation for Research and Technology – Hellas, Institute of GeoEnergy	Training Officer (Women, Peace, and Security) , Gender Advocate , risk analysis, international cooperation, conflict resolution, strategic planning, stakeholder engagement, crisis management, and environmental policy.	F
Georgios Sylaios	Greece	Professor at Democritus University of Thrace	Ecological Engineering and Technology covers all aspects of water and ecological	M

			research (inland surface and groundwater, coastal aquatic systems, integrated management of water and wastewater, etc.).	
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Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 4: Tourism				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
<b>Co-Lead Members</b>				
Rafael González-Quirós	Spain	DIRECTOR DEL CENTRO OCEANOGRÁFICO DE GIJÓN INSTITUTO ESPAÑOL DE OCEANOGRAFÍA (IEO-CSIC)		M
<b>Coordinating Author</b>				
Peter Schuhmann	USA	Professor of Economics, University of North Carolina Wilmington	ecosystem service valuation researcher, co-author of the Highlevel Panel document on tourism	M
<b>Members of the writing team</b>				
Eliza Northrop	Australia	Director, Sustainable Development Reform Hub, University of New South Wales	Lead author of the Highlevel Panel document on tourism	F
Alan Fyall	USA/UK	Associate Dean Academic Affairs and Visit Orlando Endowed Chair of Tourism Marketing at the Rosen College of Hospitality Management, University of Central Florida	Co-author of the Highlevel Panel document on tourism	M
Sergio Alvarez	USA/Colombia	Assistant Professor, University of Central Florida	Co-author of the Highlevel Panel document on tourism	M
Adriana Ressurreição	Portugal	University of the Azores	Coordinated a project to estimate the economic importance of marine-based ecotourism in the Azores	F
Antonia Correia	Portugal	Dean of the School of Tourism, Sports and Hospitality, professor, Universidade do Algarve	Widely published in numerous aspects of tourism	F

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 5: Use of genetic resources and biotechnology				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Enrique Marschoff	Argentina	Argentine Representative to the Scientific Committee for the Conservation of Antarctic Marine Living Resources and its Working Groups from 1985 to date. Elected member of the 9 person CCAMLR Performance Review Panel. Advisor to the Secretaria de Pesca on the implementation of the CDS and to the Argentine Parliament in the drafting of the Law on Antarctic Fisheries		M
<b>Co-Lead Members</b>				
Juying Wang	China	Director General, PHD National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China		F
<b>Coordinating Author</b>				
Muriel Rabone	New Zealand	Data analyst/Researcher, Natural History Museum, London	Leading expert on marine genetic resources; co-lead of deep ocean stewardship initiative marine genetic resources working group	F
Robert Blasiak	USA	Researcher/Theme Leader/Project Manager , Stockholm Resilience Centre	Social and equity dimensions of marine genetic resources and marine biotechnology	M
<b>Members of the writing team</b>				
Changwei Shao	China	Professor, Yellow Sea Fisheries Research Institute, CAFS	Marine genetic resources in aquaculture context	M
Marcel Jaspars	UK	Professor of Chemistry, University of Aberdeen	Marine biodiscovery, negotiation of BBNJ Agreement	M
Angelika Brandt	Germany	Head of Marine Zoology department in Senckenberg and Professor at Goethe University Frankfurt, Senckenberg Research Institute and Natural History Museum	Deep-sea marine genetic resources	M

Sophie Arnaud-Haond	France	Researcher, Ifremer-University of Montpellier	Evolutionary ecology and gene flow in marine environment	F
Jane Collins	UK	Associate Manager, KPMG UK	Marine genetic resources / Ocean governance: compliance, monitoring and enforcement	F
Jessica Lavelle	South Africa	Researcher, University of Cape Town	Marine genetic resources / Ocean governance/law of the sea	F
Luciana Fernandes Coelho	Brazil	Lund University	Ocean governance/law of the sea / Marine genetic resources	F
Natalia Erazo	USA	PhD candidate , Scripps Institution of Oceanography	Marine genomics / Mangroves	F
Tanya Wagenaar	South Africa	Lecturer and Head of Department: Public Law in the Faculty of Law at Nelson Mandela University., Nelson Mandela University	Ocean governance/law of the sea / Marine genetic resources	F
Matthew Upton	UK	Professor of medical microbiology, University of Plymouth	Marine microbiology / Marine genetic resources	F
Randi Rotjan	USA	Research Associate Professor, Boston University	Deep sea ecosystems / Marine genetic resources	M
Helena Vieirra	Portugal			F
Tyler-Rae Chung	Fiji		Indigenous and traditional owner knowledge	F

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 6: Shipping				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Felicia Mogo	Nigeria	President/founder African marine Environment sustainability Initiative (AFMESI)		F
<b>Co-Lead Members</b>				
Vasily Smolyanitsky	Russian Federation	Leading scientist-head of laboratory Arctic and Antarctic Research Institute (AARI)		M
<b>Coordinating Author</b>				
Ida-Maja Hassellöv	Sweden	Professor, Maritime Environmental Science Chalmers University of Technology, Dept of Mechanics and Maritime Sciences, Gothenburg, Sweden	Environmental pressures and impacts of shipping Risk assessment Polluting shipwrecks	F
<b>Members of the writing team</b>				
James J. Winebrake	USA	Professor, Public Policy and International Affairs Provost and Vice Chancellor for Academic Affairs University of North Carolina Wilmington, Division of Academic Affairs and Department of Public and International Affairs	Socio-techno-environmental systems analysis Shipping emissions and impacts on human health Life cycle assessment of future fuels Tradeoffs between pollution reduction measures W: <a href="http://www.winebrake.com">www.winebrake.com</a>	M
Intan Suci Nurhati	Indonesia	Head of Research Center, Senior Researcher Research Center for Deep Sea, National Research and Innovation Agency (BRIN)	Oceanography, Climatology, pollution monitoring	F
Fani Sakellariadou	Greece	Professor, Geochemical oceanography University of Piraeus, Dept of Maritime Studies, Piraeus, Greece & Chalmers University of Technology, Dept of Mechanics and Maritime Sciences, Gothenburg, Sweden	ICZM, MSP, Port ship induced pollution	F
Sindhura Polepalli	India	Graduate Research Assistant, Rosenstiel School of Marine, Atmospheric, and Earth Science and	Ocean governance/law of the sea, Ocean governance: maritime regulation regime,	F

		Leonard and Jayne Abess Center for Ecosystem Science and Policy, University of Miami	Decarbonization of Shipping, Ship recycling, Prevention of Pollution from Ships, Protection of Marine Environment, Anti-Piracy, Maritime Security, Maritime Labour, Maritime India Vision 2030, International Maritime Cooperation	
Zhen Sun	China	Associate Professor (Research / Ocean Sustainability, Governance & Management) WMU - Sasakawa Global Ocean Institute, World Maritime University, Malmö, Sweden	Public International Law, Law of the Sea Regulation of International Shipping, Maritime Security Empowering Women	F
Momchil Terziev	Bulgaria/UK	Assistant Professor Department of Naval Architecture, Ocean and Marine Engineering, University of Strathclyde, Glasgow, UK.	Hydrodynamics	M
Mariana Graciosa Pereira	Brazil	Environmental Analyst Brazilian Institute of Environment and Renewable Natural Resources	EIA Dredging MPA Environmental licensing of transport infrastructure	F
K. M. Azam Chowdhury	Bangladesh	Assistant Professor & Chairman, Department of Oceanography, University of Dhaka, Bangladesh	Marine pollution, Marine Spatial planning, Blue economy, Ocean Dynamics, Law of the sea, Navigation.	M
Magnus Chidi Onuoha	Nigeria	Professor, Climate Change and Green Economy Executive Director, West Africa Green Economic Development Institute (WAGEDI) Gregory University Uturu Abia State Nigeria	Decarbonization, carbon emission pathways, policy analysis, GHG inventories, mitigation assessment and measures	M
Bjørn Einar Grøsvik	Norway	Principal scientist Institute of Marine Research, Norway	EIA Pollution Hydrocarbons Monitoring	M
Monica Lundh	Sweden	Chalmers University of Technology, Associate Professor	Shipping and Maritime safety	F
Scott MacKinnon	Sweden	Chalmers University of Technology, full professor	Maritime safety and Maritime transport	M

Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 7: Mineral resources				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Felicia Mogo	Nigeria	President/founder African marine Environment sustainability Initiative (AFMESI)		F
<b>Co-Lead Members</b>				
Joshua Tuhumwire	Uganda	Founder and Managing Director of Gondwana Geoscience Consulting Ltd		M
<b>Coordinating Author</b>				
Galo Carrera	Mexico	International Consultant	Scientific research on marine geosciences 30 yrs, CLCS 20yrs, LTC ISA 5 yrs	M
<b>Members of the writing team</b>				
Jean-Marc Daniel	France	Head of the physical resources and deep sea ecosystems department, IFREMER	Geoscience and technology	M
Rudy L.J. Helmons	The Netherlands	Assistant Professor Offshore and Dredging Engineering / Adjunct Associate Professor for Deep-Sea Mining , Delft University of Technology	Marine minerals, dredging & offshore engineering	M
Pedro Madureira	Portugal	Deputy Head at the Task Group for the Extension of the Portuguese Continental Shelf (EMEPC), Geosciences Dept, University of Évora	Marine geology and deep sea mineral resources.	M
Luis Menezes Pinheiro	Portugal	Associate Professor in Marine Geophysics at the University of Aveiro	Marine geophysics investigation of marine. Marine and coastal dredging activities	M
Youngdawng Moh	Republic of Korea	Senior Researcher, Korea Institute of Ocean Science and Technology	National Delegation to International Seabed Authority, UN BBNJ intergovernmental Conference	M
John Parianos	Australia/Greece	Postdoctoral researcher/ Independent consultant, Cook Islands Seabed Minerals Authority	Geology (marine and terrestrial), Environment (marine), other minerals areas.	M
Alix Willemez	France	Climate change consultant to international organisations, Independent international consultant	DSM history, policy, law (legislations of the South Pacific countries)	F

Noémie Wouters	Belgium	programme officer, International Seabed Authority	Marine management & sustainable ocean development	F
Mpho Sehlabo	South Africa	Library Senior Student Assistant, University of Cape Town	The International Seabed Authority (ISA) See Her Exceed (S.H.E.) Mentorship Program Candidate, 2024	F
Cheol-Kyu Maeng	Republic of Korea	Associate Professor, Daejin University	International Commerce	M

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 8: Desalination and salt production (liquid salt)				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Slimane Maliki	Morocco	Chef de Service de la Planification et de la Coordination Interministérielle Direction de l'Observation, des Études et de la Planification Ministère de la Transition Énergétique et du Développement Durable		M
<b>Co-Lead Members</b>				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
<b>Coordinating Author</b>				
Archis Ambulkar	India	Engineering Technology Instructor Toledo Technology Academy, Toledo	Drinking water, water purification, salinity, wastewater, pollution, water resource recovery, oceans, harmful algal blooms, chemical treatment technologies, WOA II contributing author	M
<b>Members of the writing team</b>				
Gregory Wetterau	USA	Membrane Technology Leader, CDM Smith	Seawater desalination, membrane technology, planning and design of water and wastewater treatment facilities, membrane filtration, desalination, and advanced wastewater treatment facilities, potable reuse facilities	M
Peter Croot	Ireland	Professor, Earth and Ocean Sciences, University of Galway	Ocean acidification, ocean chemistry, earth and ocean sciences, chemical speciation in seawater, atmospheric input of chemicals to the ocean, phytoplankton bloom, ocean fertilization	M
Chinenye Ajanwachuku	Nigeria	Principal Marine Environmental Management Officer, Nigerian Maritime Administration and Safety Agency	Environmental impact assessments, marine debris, water quality, water pollution prevention and pollution remediation,	F

			waste management, marine environment management regulations, conventions and protocols, maritime action plan	
Andrea Cipollina	Italy	Full Professor, Engineering, University of Palermo	Desalination, Salinity gradient power technologies and brine valorisation, solar membrane distillation, membrane separation technologies, desalination by renewable energy, polluting effluents from treatment plants	M
Jamel Orfi	Saudi Arabia	Professor, Mechanical Engineering, King Saud University	Desalination processes, analysis of thermal and desalination systems, renewable energy applications, power and desalination, solar energy, evaporative cooling systems, brine discharge problems, desalination and energy sciences	M
Nurasyikin Binti Misdan	Malaysia	Pensyarah Kanan(Senior Lecturer), Universiti Tun Hussein Onn Malaysia	Membrane separation including desalination, water and wastewater treatment	F
Mushtaque Ahmed	Oman	Professor, Sultan Qaboos University	Water quality, brine disposal from desalination plants, aquifer recharge, soil salinity, saline water, saline soils, biosaline agriculture, greywater, and wastewater treatment and reuse, water resources management	M
Mohammed Rasool Qtaishat	Jordan	Associate Professor, The University of Jordan	Seawater desalination, wastewater treatment by membrane distillation, electro-coagulation, membrane bioreactor, wastewater treatment by adsorption, novel membranes	M
Joe Williams	UK	Lecturer in Human Geography, Cardiff University	Political ecology of seawater desalination and the water-energy nexus, water infrastructure development, desalination and wastewater reuse, off-grid city and unconventional utility supplies	M
Maria Christina	Chile	Assistant Professor, University of Chile	Seawater desalination, water management	F

Fragkou			and politics, urban sustainability, natural resources scarcity, environmental justice and vulnerability, alternative water supply systems	
Chuyang Y. Tang	Hong Kong	Professor, Chair of Environmental Engineering, The University of Hong Kong	Energy-efficient and environmentally-friendly smart seawater desalination system, membrane for water purification and desalination, biomimetic membranes, brine disposal	M

Section 5: Socio-ecological systems Section 5A: A sustainable and inclusive ocean economy Chapter 9: Coastal development				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Kwasi Appeaning Addo	Ghana	Professor, Institute for Environment and Sanitation Studies/Department of Marine and Fisheries Sciences, College of Basic and Applied Sciences, University of Ghana.		M
<b>Co-Lead Members</b>				
Karenne Tun	Singapore	Group Director, National Biodiversity Centre, National Parks Board (NParks)		F
<b>Coordinating Author</b>				
Dahai Liu	China	Professor, Director for Coastal Center, First Institute of Oceanography, Ministry of Natural Resources	He has a sufficient research base, work experience, international cooperation ability, organizational and communication skills, and team support in ocean and coastal zone analysis, planning, policy, and carbon sinks at the Chinese and international levels, which will support his continued contribution of practical and innovative results in the field of ocean management and marine spatial planning.	M
<b>Members of the writing team</b>				
Matthew Eliot	Australia	Director (Coastal Engineering) at Damara WA & Seashore Engineering Pty Ltd	He has twenty-nine years of specialist experience as a coastal and maritime engineer. He actively contributes to Australian coastal research, with strong interests in extreme sea levels, tropical cyclones, long-term coastal change and estuarine dynamics. His research mixes coastal engineering, geomorphology, oceanography and climate change adaptation. He was the chapter author for the chapter of Erosion & Sedimentation in WOAI.	M

Ourania Tzoraki	Greece	Associate Professor, School of the Environment Marine Sciences Department, University of Aegean	She is currently Associate Professor of “Integrated river basin and coastal zone management” at the University of the Aegean (Mytilene, Greece), where she develop novel hydrological and technological approaches to study rivers and the coastal zone environment. She is the (co)author of more than 150 publications in scientific journals, books and conference proceedings. Over 20 years she provide technical leadership in several hydrologic engineering applications (i.e. coupling remote sensing with high frequency river monitoring systems, flood alert systems, nutrients mitigation technologies, touristic areas carrying capacity, aquifer and river water health, Artificial Aquifer Recharge with treated wastewater, erosion of UNESCO geoparks) and develop innovative models.	F
Vanessa Stelzenmüller	Germany	Head of research unit marine spatial management, Scientific director, Thünen Institute (TI) of Sea Fishereies	She is an expert in ecosystem based marine spatial planning, offshore wind and fisheries interactions, socio-economic impact of MSP on fisheries, co-use /multi-use in solutions. She advised MSP projects in Israel and the Adriatic Sea, contributes to a number of ICES expert groups and chairs ICES expert workshops on probabilistic assessments for spatial management.	F
Ant Türkmen	Türkiye	LifeWatch ERIC, Italy	His research focuses on Sustainable Blue Economy, Marine Spatial Planning, Nexus Assessment. He’s also an expert for the United Nations Division for Ocean Affairs and the Law of the Sea (UNDOALOS), where he contributes to the global reporting and assessment of the state of the marine	M

			environment.	
Alex Faerman	Israel	Independent Advisor, Civil & Marine Infrastructure, various locations	A seasoned and delivery-focused Engineering Executive with substantial experience in Coastal Engineering & Civil Engineering Infrastructure project development. Possesses extensive experience in Coastal Defences, Coastal Engineering and Civil Engineering full project development cycle including project planning, design, tendering process management, contracting and contractual negotiations, and on-site construction supervision and contractor performance evaluation. With proven experience in managing and supervising Infrastructure projects in developing countries often in challenging and complex environments.	M
Louies Celliers	South Africa	Senior Scientist, Climate Service Center Germany	His research focuses on coastal and ocean governance and coastal climate services - finding solutions for complex issues related to the well-being of coastal urban communities in a changing climate. His professional and personal goals are underpinned by the global goals for sustainability.	M
Mina Ogbanga	Nigeria	Professor of Social Work and Environmental Sustainability at the Rivers State University	She has over 23yrs demonstrated experience in environmental sustainability, socio economic rights, cross cutting issues for the promotion of community rights of oceans and coastal inhabitants, gender studies (especially relating to maritime industries and coastal areas), socio-ecology.	F
Pascal Thoya	Kenya	Research Scientist, Kenya Marine and Fisheries Research Institute	His work focuses on Blue Economy development, Including port development in East Africa. He is a current member of Kenya Marine Spatial Planning Secretariat which is	M

			<p>developing MSP for Kenya. They handle different aspects of planning that include planning for coastal developments. He has authored several publications related to coastal development including i) Policy gaps in the East African Blue economy: Perspectives of small-scale fishers on port development in Kenya and Tanzania ii) Charting the course for ocean sustainability in the Indian Ocean Rim - Extraction of non-renewable marine resources.</p>	
Olanlo Kadjogbe Abra	Togo	Director of blue economy at Haut Conseil pour la Mer Lome, Togo	<p>She is an expert in ocean governance. Her assignment is to coordinate the development of the blue economy in Togo. She also has expertise in marine spatial planning, waste management and environmental impact assessments, dynamic, enthusiastic, and sociable, she has a good capacity for analyzing pressures, states, impacts and responses. In addition, she is an expert of Women in law of sea (WILOS) for the International Seabed Authority (ISA) and member of Women in Maritime in Africa (WIMA) with aim of promoting young women in maritime, especially for marine scientific research.</p>	F
Piyali Chowdhury	India	Senior Coastal Scientist, Advisor for marine projects and Topic Lead (Marine & Coastal Physics) at the Centre for Environment, Fisheries & Aquaculture Science (Cefas), UK	<p>She studies the impacts of climate change on our coasts using data-driven methods. She has focused on identifying teleconnections that the global atmospheric phenomena have on regional coastal processes (waves and sediment transport). Her research also encompasses the response of local/regional coasts (processes) to future changes in wave climate under various climate scenarios</p>	F

			(extreme events and sea level rise). She has experience in designing experiments including wave-structure modelling which is used for investigating tsunami wave induced debris-dam formation and interaction with coastal vegetation and/or infrastructure. Her current research focuses on reducing risk related to coastal hazards, improving early warning systems, propagation models, perception and preparedness of risk with the use of state-of-the-art digital technologies in different phases of coastal management.	
Yuting Hou	China	Research Fellow, First Institute of Oceanography, Ministry of Natural Resources, China	He has accumulated a good foundation in oceanography and management during his master's and doctoral studies, and has been involved in Marine Spatial Planning (MSP), Integrated Coastal Zone Management (ICZM), marine chemistry, and environmental impact assessment related work for nearly a decade. His research mainly focuses on global MSP typology, marine and coastal zone analysis, planning, management, and policies, etc.	M
Wenxiu Xing	China	Research Fellow, First Institute of Oceanography, Ministry of Natural Resources, China	Her research interests include marine and coastal economy, coastal zone spatial assessment and planning management. She has presided more than 10 projects, including a number of marine planning, such as the Shandong Coastal Zone Space Special Plan and the Yazhou Bay Marine Space Detailed Plan. She has published over 10 academic papers in journals such as Marine Policy and Urban Planning Forum.	F
Aline Sbizera Martinez	Brazil	Postdoctoral Research Fellow, Federal University of São Paulo, BR	She is an ecologist who investigates drivers of community dynamics and functioning of marine benthic ecosystems with the ultimate	F

			goal of developing nature-based solutions for improving ecosystem conservation and maintaining environmental sustainability. Her research focuses on benthic ecology, anthropogenic impacts, ecosystem services, nature-based solutions (NbS), and conservation of coastal ecosystems.	
Jahson Berhane Alemu	Trinidad and Tobago	Research Fellow, University of South Alabama	Marine Ecosystem Service Scientist (PhD as part of the Project for Ecosystem Services, with focus on optimising ecosystem service benefits and minimising trade-offs in coral reef decision making for coastal protection, fisheries, tourism, and recreation benefits; Postdoc on the Natural Capital Singapore project, with mapping the supply of urban coastal ecosystem services, development of coastal typology, assessment of coastal protection of natural and man-made structures, blue carbon dynamics, spatial pattern and interactions among multiple ecosystem services, and characterization of the health of natural and managed coastal ecosystems; postdoc on marsh restoration, climate adaptation equity and sea level rise risks to densely urban communities in Boston; currently looking at the resilience benefits of living shorelines to the gulf of Mexico)	M
Curt Daron Storlazzi	USA	University of Victoria	His interests span the coastal zone, from seacliff erosional processes to sediment dynamics in the shallow coastal ocean. Research focuses on the interplay between geologic structure, climatic fluctuations and coastal processes, the quantitative study of hydrodynamics, sediment transport, and geomorphology in coastal and marine	M

			environments.	
Jenna Lamphere	USA	Assistant Professor of Environmental Sociology, Texas A&M University, Galveston Campus	Rich expertise in sustainable coastal community development and research experience in Arctic tourism and oil and gas development.	F
Anya Dunham	Canada	Research Scientist, Fisheries and Oceans Canada	Over the past 18 years she has worked on a number of research projects assessing the effects of coastal development on marine species and ecosystems in Pacific Canada. These projects include assessing biotic exchanges from the movement of floating docks, various aspects of intertidal and suspended shellfish and finfish aquaculture, and the effects of a submarine power transmission cable on a glass sponge reef and associated macroinvertebrate communities.	F

Section 5: Socio-ecological systems				
Section 5A: A sustainable and inclusive ocean economy				
Chapter 10: Geoengineering				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Ian Butler	Australia	Fisheries Scientist at the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) - Canberra		M
<b>Co-Lead Members</b>				
Mariamalia Rodriguez	Costa Rica	Programme coordinator - DOALOS/Norway programmes of assistance to meet the strategic capacity needs of developing states in the field of ocean governance and the law of the sea. Post-Doctoral Research Fellow, World Maritime University - Sasakawa Global Ocean Institute. Empowering Women for the United Nations Decade of Ocean Science for Sustainable Development Project. Consultant for the Pew Charitable Trust		F
<b>Coordinating Author</b>				
Jerry Blackford	UK	Head of Science Marine Systems, Plymouth Marine Lab	CDR, CCS, carbon modelling	
<b>Members of the writing team</b>				
Chelsey Baker	UK	Ocean Biogeochemical Modeller, National Oceanography Centre	Carbon pumps and efficacy of CDR	F
Aline Sbizera Martinez	Brazil	Postdoctoral Research Fellow, Universidade Federal de São Paulo	Ecosystem services and ecoengineering	F
Yekaterina Astafyeva	Belgium	Scientific Officer, JPI Oceans	Policy, blue carbon and CDR,	F
Mariana Mayer Pinto	Australia	Associate Professor, University of NSW	Physical engineering, nature-based approaches	F
Richard Sanders	Norway	Director ICOS Ocean thematic Centre, NORCE	Carbon cycling and sequestration	M
Jahson Berhane	Trinidad and	Research Fellow, Nature	Carbon sequestration and storage, Marine and	M

Alemu	Tobago	Conservancy (Massachusetts)	coastal ecosystem-based management	
Navraj Sing Ghaleigh	UK	Senior Lecturer in Climate Law, Edinburgh Law School, Edinburgh University	Legal frameworks relating to CDR	M
Christopher Pearce	UK	Principal Marine Geoscientist, National Oceanography Centre	MMV technology and CDR	M
Romany Webb	UK	Research Scholar and Deputy Director, Sabin Centre for Climate Law	Law and regulations for CDR	F
Dahai Liu	China	Director, Coastal Science and Marine Planning Center, First Institute of Oceanography	Marine planning and coastal management	M
Jonne Kotta	Estonia	research professor, vice director, Estonian marine Institute	Marine ecosystems, bioeconomy, climate	M
Precious Mongwe	South Africa	Senior Researcher, Council for Scientific and Industrial Research	Ocean carbon cycle	M

Section 5: Socio-ecological systems Section 5B: One Hea Chapter 1: The role of ecosystems in the carbon cycle				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Rafael González-Quirós	Spain	DIRECTOR DEL CENTRO OCEANOGRÁFICO DE GIJÓN INSTITUTO ESPAÑOL DE OCEANOGRAFÍA (IEO-CSIC)		M
<b>Co-Lead Members</b>				
Renato Quinones	Chile	Full Professor, Department of Oceanography, University of Concepción Director of the Interdisciplinary Center for Aquaculture Research (INCAR), (Center of Excellence of the Chilean National Council for Science and Technology; FONDAP-CONICYT), University of Concepción, Concepción, Chile.		M
<b>Coordinating Author</b>				
Stephen Widdicombe	UK	Director of Science and Deputy Chief Executive, Plymouth Marine Laboratory Professor, Sharjah Marine Science Research Centre, University of Khorfakkan, United Arab Emirates	Benthos, Climate change	M
<b>Members of the writing team</b>				
Lisa Levin	USA	Distinguished Professor, Scripps Institution of Oceanography	Deep Sea, Benthos	F
Punysloke Bhadury	India	Professor and SwarnaJayanti Fellow, Indian Institute of Science Education and Research (Kolkata)	Mangroves, Coastal Sediments, Pelagic	M
Sevrine Sailley	UK	Senior scientist - marine ecosystem modeller, Plymouth Marine Laboratory	Fish modelling, climate change	F
Udhi Eko Hernawan	Indonesia	Senior Researcher, Research Centre for Oceanography, National Research and Innovation Agency-BRIN	Blue carbon	M

Catia Fernandes Barbosa	Brazil	Professor Titular, Universidade Federal Fluminense	Ecology, corals	F
Chao Liu	China	Associate Professor, First Institute of Oceanography, Ministry of Natural Resources	Carbon sequestration, coastal management	M
Alex Poulton	UK	Associate Professor for Biological Oceanography, Heriot-Watt University	Pelagic	M
Hiroshi Kitazato	Japan	Visiting Professor, Tokyo University of Marine Science and Technology	Deep sea	M
Olivia Rendon	Honduras / UK	Environmental economist, Plymouth Marine Laboratory	Environmental economics, Blue carbon finance	F
Natalie Hicks	UK	University of Essex	Blue Carbon, coastal ecology and biogeochemistry	F
Patrick Martin	Singapore	Asian School of the Environment, Nanyang Technological University.	Biogeochemistry, specifically carbon and nutrient cycling	M

Section 5: Socio-ecological systems  
 Section 5B: One Health  
 Chapter 2: The ocean and human health

Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Maria Bebianno	Portugal	Professora Catedrática Jubilada Full Professor Centre of Marine and Environmental Research (CIMA) Aquatic Research Network (ARNET) Member of the Group of Experts of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process) of the United Nations Member of the Portuguese National Committee for the Ocean Decade Universidade do Algarve University of Algarve Campus de Gambelas		F
<b>Co-Lead Members</b>				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
<b>Coordinating Author</b>				
Michael Moore	UK	European Centre for Environment and Human Health (ECEHH), University of Exeter Medical School, Peter Lanyon Building 12 Penryn, Cornwall, TR10 8RD, UK & School of Biological Sciences The University of Plymouth, Drake Circus Plymouth, PL4 8AA, UK & Plymouth Marine Laboratory (PML)	Environmental Toxicologist, Molecular Cell Pathologist, Ecotoxicologist & Mathematical Modeller	M

		Prospect Place, The Hoe, Plymouth, PL1 3DH UK		
Members of the writing team				
Elisa Berdalet	Spain	Senior Scientist, Institute of Marine Sciences (ICM-CSIC), Barcelona	Harmful Algal Blooms, Marine Ecology	F
Alistair Boxall	UK	Professor, U. York, Dept. Environment & Geography	Pharmaceutical Contaminants	M
Lora Fleming	UK/USA	Professor Emerita, U. Exeter Medical School (ECEHH)	Public health, occupational and environmental health physician; epidemiologist, oceans and human health	F
William Gaze	UK	Professor, U. Exeter Medical School (ECEHH)	Microbiologist, Anti-microbial and Anti-fungal resistance	M
Awadhesh Jha	UK	Professor, U. Plymouth, School of Biological & Marine Sciences	Genotoxicologist, Environmental Radiation, Nano- & Microparticle pollution	M
Hanna Joerss	Germany	Deputy Head of Department, Helmholtz-Zentrum Hereon GmbH, Organic Environmental Chemistry, Institute of Coastal Environmental Chemistry	Emergent contaminants	F
Jae Ryoung Oh	Republic of Korea	Chief Technical Advisor, Korea Institute of Ocean Science & Technology (KIOST), South Korea (Consultant). Centennial Technology Co., South Korea (Chief Technical Advisor - CTA).	Persistent organic pollutants	M
Francesco Regoli	Italy	Director/Professor, Polytechnic University of Marche, Department of Life and Environmental Sciences	Pollutant toxicology & environmental chemistry	M
Aldo Viarengo	Italy	Professor & Research Associate, National Research Council (CNR-IAS), Institute for the Study of Anthropic Impacts and Sustainability in the Marine Environment	Molecular and cellular toxicologist, biochemistry & environmental chemistry	M
Zhiyong Xie	China	Senior Scientist, Helmholtz-Zentrum Hereon, Institute of Coastal Environmental Chemistry	Emergent contaminants	M
Lorraine Backer	USA	Team Leader & Senior Environmental Epidemiologist, Hite Consulting/National Center for Environmental Health, Centers for	Allergies & food sensitivities	F

		Disease Control & Prevention		
William Gerwick	USA	Distinguished Professor/Co-Director, UC San Diego Center for Compound Resources, Scripps Institution of Oceanography, & Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California at San Diego	Marine biotechnology & drug discovery	M
Timothy Bouley	USA	CEO & Founder, BioFeyn, Inc., Boston (USA)	Marine biotechnology & human health	M

Section 5: Socio-ecological systems Section 5B: One Health Chapter 3: Human well-being				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Donovan Campbell	Jamaica	Senior Lecturer University of the West Indies		M
<b>Co-Lead Members</b>				
Slimane Maliki	Morocco	Chef de Service de la Planification et de la Coordination Interministérielle Direction de l'Observation, des Études et de la Planification Ministère de la Transition Énergétique et du Développement Durable		M
<b>Coordinating Author</b>				
Phoebe Koundouri	Greek	Prof. Dr. Phoebe Koundouri, Professor in Economics at Athens University of Economics and Business & Technical University of Denmark, Chair World Council of Environmental and Resource Economists Associations, Chair SDSN Global Climate Hub, Director of AE4RIA	Innovative, human-centric, interdisciplinary systems for the sustainable interaction between nature, society, SDG's	
<b>Members of the writing team</b>				
Anastasia Litina	Greece	Ass. Professor University of Macedonia, Research Fellow University of Luxembourg	Economics of Well-Being, Culture, Norms, Environmental Economics	F
Lancaster Alana	Guyana/Barbados	Professor at the University of the West Indies	Energy, Policy Making,	F
Jiang Nanqing	China	China Circularity'100 Initiative and China Circular and Zero Carbon Innovation Fun	Sustainability, Circularity and climate, Policy making	F
Laura Onofri	Italy	Laura Onofri. University of Padova   UNIPD · Department of Land, Environment, Agriculture and Forestry TESAF		F

Section 5: Socio-ecological systems Section 5B: One Health Chapter 4: Ocean hazards of natural origin				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Yutaka Michida	Japan	Director, Center for International Collaboration Atmosphere and Ocean Research Institute (AORI), The University of Tokyo		M
<b>Co-Lead Members</b>				
Vasily Smolyanitsky	Russian Federation	Leading scientist-head of laboratory Arctic and Antarctic Research Institute (AARI)		M
<b>Coordinating Author</b>				
Achilleas Samaras	Greece	Associate Professor @ Democritus University of Thrace, Greece	Expertise relevant for the Chapter: Ocean Modelling; Coastal Modelling; Tsunamis; Coastal Hazards; Coastal Risk and Resilience; Climate change impact assessment and mitigation in coastal areas /// Excellent publication and relevant research projects track record /// Regions of Specialization in PoE: The Global Ocean as a whole; The North Atlantic Ocean, the Baltic Sea, the Black Sea, the Mediterranean and the North Sea	M
<b>Members of the writing team</b>				
Karina von Schuckmann	Germany	Scientific Director @ Mercator Ocean International, France	Expertise relevant for the Chapter: Ocean Climate Monitoring; Ocean Modelling; Climate Hazards; Ocean Hazards. /// Excellent publication and relevant research projects track record /// Author (various roles) for IPCC Reports, Leading Roles for CMEMS, Author for WMO reports, etc. /// Regions of Specialization in PoE: The Global Ocean as a whole; The North Atlantic Ocean,	F

			the Baltic Sea, the Black Sea, the Mediterranean and the North Sea	
Roshanka Ranasinghe	Sri Lanka	Professor @ IHE Delft Institute for Water Education, The Netherlands /// Professor @ University of Twente, The Netherlands	Expertise relevant for the Chapter: Coastal Modelling; Climate Change Risk and Vulnerability; Climate Change Impacts; Coastal Risk and Resilience. /// Excellent publication and relevant research projects track record /// Coordinating Author for WOA II, Author (various roles) for IPCC Reports, etc. /// Region of Specialization in PoE: The Global Ocean as a whole	M
Piyali Chowdhury	India	Senior Scientist @ Centre for Environment, Fisheries & Aquaculture Science (Cefas), United Kingdom	Expertise relevant for the Chapter: Ocean Modelling; Coastal Modelling; Climate Change Risk and Vulnerability; Climate Change Impacts and Adaptation. /// Excellent publication and relevant research projects track record track record /// Member of the International Marine Climate Change Centre (iMC3) at Cefas. /// Regions of Specialization in PoE: The North Atlantic Ocean, the Baltic Sea, the Black Sea, the Mediterranean and the North Sea; The South Atlantic Ocean and the Wider Caribbean; The Indian Ocean, the Arabian Sea, the Bay of Bengal, the Red Sea and the Gulf of Aden and the Persian Gulf	F
Davide Bonaldo	Italy	Research Scientist @ National Research Council, Institute of Marine Science (CNR-ISMAR), Italy	Expertise relevant for the Chapter: Coastal Modelling; Ocean Modelling; Operational Oceanography; Meteo-marine modelling; Climate Change Impacts; Coastal Protection. /// Excellent publication and relevant research projects track record	M
Ioanna Triantafyllou	Greece	Research Associate @ National and Kapodistrian University of Athens, Greece /// Research Associate @ Hellenic Mediterranean University	Expertise relevant for the Chapter: Geophysics; Earthquakes; Tsunamis; Disaster Science. /// Excellent publication and relevant research projects track record.	F

Johan Reynolds	Belgium	Researcher @ IHE Delft Institute for Water Education, The Netherlands	Expertise relevant for the Chapter: Coastal Modelling; Climate Change Impacts; Coastal Risk and Resilience. /// Very good publication and relevant research projects track record	M
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Section 5: Socio-ecological systems Section 5B: One Health Chapter 5: Equity				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Jörn Schmidt	Germany	Chair of the Science Committee International Council for the Exploration of the Sea Senior Research Fellow, Marine Food Security Center for Ocean and Society (CEOS) Kiel Marine Science (KMS), Christian-Albrechts-Universität zu Kiel, Germany		M
<b>Co-Lead Members</b>				
Roberto de Pinho	Brazil	Senior Science and Technology Analyst at the Brazilian Ministry of Science, Technology and Innovation, currently working at the General Coordination for the Ocean and Antarctica and delegate to the OECD's National Expertson Scienceand Technology Indicators Working Party (NESTI), the Global Science Forum (GSF) and to the Intergovernmental Oceanographic Commission (IOC) Assembly		M
<b>Coordinating Author</b>				
Nathan Bennett	Canada	Global Oceans Lead Scientist (WWF) and Chair of the People and the Ocean Specialist Group (IUCN), WWF/IUCN	Equity in marine conservation and blue economy, environmental justice issues related to the ocean, human right to a healthy ocean, human rights in fisheries, ocean defenders, governance	M
<b>Members of the writing team</b>				
Jessica Blythe	Canada	Associate Professor, Brock University	small-scale fisheries, blue justice, marine conservation, ocean equity, social science	F
Elena Finkbeiner	USA	Director, Coastal Community Fisheries, Conservation International	I have been working as an academic and conservation practitioner at the nexus of	F

			social equity and fisheries sustainability	
Caroline Ferguson Irlanda	USA	Postdoctoral Researcher, Stanford University	ocean equity, seafood justice, coastal access, gender in fisheries, food sovereignty, Micronesia	F
Alana Malinde S.N.Lancaster	Barbados/Guyana	Senior Lecturer in Law & Head of the Environmental Law, Ocean Governance & Climate Justice Unit of the Faculty of Law, The University of the West Indies, Cave Hill Campus	human rights law; ocean-climate nexus; children's rights & the ocean; SIDS	F
Stefan Gelcich	Chile	Professor and director, Universidad Católica & Millenium institute on coastal social ecological systems	Equity, small scale fisheries, cooperation, justice	M
Rocio Lopez de la Lama	Peru	Postdoc fellow, University of British Columbia	human rights, justice, environmental rights, coastal communities	F
Mia Strand	South Africa	Postdoctoral Research Fellow, Nelson Mandela University	ocean equity, cognitive justice, transdisciplinarity, knowledge co-production, socio-cultural dimensions	F
Bolanle Erinsho	Nigeria	Senior Lecturer, University of Derby	Human rights and small scale fisheries	F
Richard Nyiawung	Cameroon	Postdoctoral Research Scholar, Stanford University	Ocean and marine conservation and sustainability	M
Samiya Ahmed Selim	Bangladesh	Professor and Director, University of Liberal Arts Bangladesh	Climate justice, diversity, equity and inclusion, blue justice, Bay of Bengal marine sociological system, human dimensions	F
Quentin Hanich	Australia	Nippon Foundation Ocean Nexus Chair in Fisheries Governance, Australian National Centre for Ocean Resources and Security (ANCORS) University of Wollongong	Equitable conservation and management of transboundary fisheries	M
Lora E. Fleming	USA/UK	Emerita Professor, European Centre for Environment and Human Health University of Exeter Medical School	Oceans and Human Health	F
Sebastian Villasante	Spain	Director of the EqualSea Lab, Coordinator of the EQUALSEA European Research Council Consolidator Grant project, University of Santiago de Compostela	Ocean equity, social sustainability, governance, global south	M
Colette Wabnitz	France	Lead Scientist, University of British Columbia and Stanford University	Gender and fisheries; food and nutrition security; small scale fisheries; sustsinable	F

			development; climate change	
Joeri Scholtens	The Netherlands	Senior Lecturer, University of Amsterdam	Inequality, distribution, fisheries conflict, blue foods, fish food security.	M

Section 5: Socio-ecological systems Section 5B: One Health Chapter 6: Gender				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Mariamalia Rodríguez	Costa Rica	Programme coordinator - DOALOS/Norway programmes of assistance to meet the strategic capacity needs of developing states in the field of ocean governance and the law of the sea. Post-Doctoral Research Fellow, World Maritime University - Sasakawa Global Ocean Institute. Empowering Women for the United Nations Decade of Ocean Science for Sustainable Development Project. Consultant for the Pew Charitable Trust		F
<b>Co-Lead Members</b>				
Slimane Maliki	Morocco	Chef de Service de la Planification et de la Coordination Interministérielle Direction de l'Observation, des Études et de la Planification Ministère de la Transition Énergétique et du Développement Durable		M
<b>Coordinating Author</b>				
Leandra R. Gonçalves	Brasil	Assistant Professor, Federal University of São Paulo	Ocean governance: compliance, monitoring and enforcement / Gender studies (especially relating to maritime industries and coastal areas)	F
<b>Members of the writing team</b>				
Elena Mengo	UK	Senior Environmental Social Scientist, Cefas-Centre for Environment, Fisheries and Aquaculture Science	Maritime industry	F
Renis Auma Ojwala	Kenya	Research Assistant, World Maritime University	Ocean Science	F
Luciana	Brasil	Post-doctoral reseracher, Oceanographic	SSF and gender	F

Yokoyama Xavier		Institute - University of São Paulo & Catedra UNESCO for Ocean Sustainability		
Mina Ogbanga	Nigeria	Professor of Social Work and Environmental Sustainability at the Rivers State University	She has over 23yrs demonstrated experience in environmental sustainability, socio economic rights, cross cutting issues for the promotion of community rights of oceans and coastal inhabitants, gender studies (especially relating to maritime industries and coastal areas), socio-ecology.	F
Ellen Johannesen	Canada	Phd Candidate in Maritime Affairs- Research Assistant (WMU) & Coordinating Officer (ICES), World Maritime University/International Council for the Exploration of the Sea	Ocean Science	F
Luceni Hellenbrant	Brasil	Postdoctoral researcher, Federal University of Paraná	Social Science and SSF	F
Momoko Kitada	Japan	Nippon Foundation Professorial Chair in Gender and Innovation, World Maritime University	Integrating gender perspectives across various maritime disciplines, including education, energy management, sustainable development, capacity building, and digitalization	F

Section 5: Socio-ecological systems Section 5B: One Health Chapter 7: Pandemics including COVID-19 Impacts				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Ian Butler	Australia	Fisheries Scientist at the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) - Canberra		M
<b>Co-Lead Members</b>				
Carmen Mifsud	Malta	Senior Environment/Enforcement Officer at ERA - Environment & Resource Authority Visiting Lecturer at University of Malta and at the IMO-International Maritime Law Institute (IMLI)		F
<b>Coordinating Author</b>				
Easton White	USA	Assistant Professor, University of New Hampshire	COVID-19 research	M
<b>Members of the writing team</b>				
Sindhura Polepalli	India	Maritime Legal Consultant, Ministry of Ports, Shipping and Waterways	Ocean governance/law of the sea, Ocean governance: maritime regulation regime	F
Victoria N. Erasmus	Namibia	Operations Manager, Fisheries Observer Agency	pandemics and fisheries observers	F
Amelie Laute	Iceland	Research Officer, Whale Wise	animal behavior	F
Priyal Bunwaree	Mauritius	Senior Legal Counsel, Blue Marine Foundation	COVID, illegal behavior, AIS work	F
Thauan Santos	Brazil	Professor, Graduate Program in Maritime Studies, Brazilian Naval War College (PPGEM/EGN) and Center for the Blue Economy, Middlebury Institute of International Studies (CBE/MIIS)	Economic benefits of the ocean to humans, Economic inequality	M
Candace May	USA	Instructor. Master's Program in Community Development. GPIDEA (Great Plains Interactive Distance Education Alliance). 2020–Present Affiliated Assistant Professor. Department of Natural Resource	Natural Resources & Rural Sociology; Governance (Institutions, Organizations, and People); Environmental and Climate (In)Justice, Stratification; Collective Action; Community Development; Complex Socio-	F

		Management, South Dakota State University. 2016–Present Assistant Professor. Department of Sociology & Rural Studies, South Dakota State University.	Ecological Systems, Resilience, Vulnerability, and Adaptive Capacity	
Sebastian Villasante	Spain	University of Santiago de Compostela		M

Section 5: Socio-ecological systems Section 5B: One Health Chapter 8: Indigenous, Traditional owner and Local community Knowledge				
Name	State	Affiliation	Relevant Experience	Gender
<b>Lead Member</b>				
Ian Butler	Australia	Fisheries Scientist at the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) - Canberra		M
<b>Co-Lead Members</b>				
Jörn Schmidt	Germany	Chair of the Science Committee International Council for the Exploration of the Sea Senior Research Fellow, Marine Food Security Center for Ocean and Society (CEOS) Kiel Marine Science (KMS), Christian-Albrechts-Universität zu Kiel, Germany		M
<b>Coordinating Author</b>				
Paul Tuda	Germany	Acting Deputy Chief of Party / PACT Malawi & Fisheries Expert, University of Rhodes Island, Coastal Resource Center (CRC)	Expertise in integrating learning, communications and policy development across relevant donor, government, and other stakeholder networks in the context of fisheries data generation and analysis for management, policy and advocacy	M
<b>Members of the writing team</b>				
Sherry Pictou	Canada	Associate Professor/Tier 2 Research Chair Indigenous Governance, Dalhousie University	Coastal communities (indigenous)	F
Shelley Denny	Canada	Senior Advisor, Unama'ki Institute of Natural Resources	Indigenous and traditional owner knowledge	F
Winifereti Nainoca	Fiji	Consultant, UNESCO - Indigenous Local Knowledge Expert in Oceans Decade	Marine and coastal cultural-based management	F
Ian Butler	Australia	Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), Department of Agriculture, Water and the Environment	Benthic ecology, Fisheries management	M

