

# The Palgrave Handbook of Blue Heritage

*Edited by* Rosabelle Boswell David O'Kane · Jeremy Hills

palgrave macmillan The Palgrave Handbook of Blue Heritage

Rosabelle Boswell · David O'Kane · Jeremy Hills Editors

## The Palgrave Handbook of Blue Heritage



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To all those committed to saving the planet and to safeguarding our blue heritage.

#### Acknowledgements

This book developed out of a desire to foreground the contribution of the humanities and social sciences in ocean conservation and management. The book was also partly inspired by earlier research in South Africa and the southwest Indian Ocean region, and via collaboration between researchers in the UKRI funded One Ocean Hub project. The latter includes transdisciplinary research on small scale fishers in Ghana, Fiji, Namibia and South Africa. As the contributors to this book show, human interaction with the oceans and coasts is thoroughly complex. National governments need to do more to advance a more inclusive ocean management strategy and to consider the multifaceted nature of the human–ocean dynamic.

The work of researchers presented in this book also reveals the increasingly transdisciplinary field of ocean management and the intellectual flexibility required to understand diverse disciplinary frameworks and epistemologies in the ocean sciences. We are therefore very grateful to the authors in this book. Many are working in extraordinarily difficult and fluid circumstances but still managed to submit their chapters to this edited book. The added challenge of Covid-19 made their task even more challenging and because of Covid-19, some researchers did not manage to offer a chapter. In the 'field', researchers were also required to engage with communities embedded in highly unequal societies, where primary concerns were for subsistence and health care needs. For doing the difficult work of engaging research participants in local communities, sharing challenging stories, collating data and analysing it and working as part of a team, we thank the authors, the editors,

the research assistants and community people across the world, who have made this book possible. Sustainable ocean use and management is an urgent and collaborative effort requiring input from scientists (social and natural), as well as those who do not describe themselves as scholars.

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#### Notes on Contributors

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Rosabelle Boswell is Professor of anthropology and Research Chair of Ocean Cultures and Heritage funded by the Department of Science and Innovation, National Research Foundation and Nelson Mandela University, South Africa. A graduate of Vrije Universiteit, Amsterdam, her work involves transdisciplinary research on coastal and island cultures and heritage, including a focus on oceans conservation in the selected field sites of coastal South Africa, Kenya, Namibia and Mozambique. Rose has done anthropological field research in South Africa, Mauritius, Zanzibar, Madagascar and Seychelles. She is author of Le Malaise Creole: Ethnic Identity in Mauritius (Oxford, Berghahn, 2006), Representing Heritage in Zanzibar and Madagascar (Addis Ababa, Eclipse, 2008); Challenges to Identifying and Managing Intangible Cultural Heritage in Mauritius, Zanzibar and Seychelles (Dakar, CODESRIA, 2011) and Postcolonial African Anthropologies (co-edited with F. Nyamnjoh, Pretoria, HSRC Press, 2016). Her two poetry books are published by RPCIG, Bamenda and New York. They are entitled: Things Left Unsaid (2019) and Pandemix (2020). A forthcoming poetry book Between Worlds (RPCIG: Cameroon) examines issues of ocean sustainability and anthropogenic impacts on oceans and coasts.

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Kevin Chand is a program officer at the High Seas Alliance. Kevin has an LLM from Stanford Law School, a Masters' in Environmental Management from the University of Queensland, and an LLB from the University of the South Pacific. Kevin taught International Environmental Law, Oceans and Illegal, Unreported, and Unregulated (IUU) fishing policy at Stanford University. He has also held numerous roles at Stanford including Lecturer at the Program in International Relations, Design Thinking Fellow at the Law and Policy Lab at Stanford Law, and Ocean Design Fellow at the Stanford Center for Ocean Solutions. Kevin has previously worked for the IUCN on climate change mitigation efforts in Fiji related to the deployment of REDD+ projects and entered private practice as a solicitor specialising in environmental and commercial law. In private practice, his work revolved around supporting environmental conservation groups and foundations He has provided ocean policy advice to several regional organisations in the Pacific. Kevin is committed to supporting negotiations towards the Biodiversity Beyond National Jurisdiction (BBNJ) Treaty.

**Dr. Penda Choppy** is the Director of the Creole Language and Culture Research Institute at the University of Seychelles. She was the Director of the Creole Institute of Seychelles from 1999 to 2014 when she became its CEO. She moved to the University of Seychelles in 2016. Penda studied English at Leeds University and has completed a research degree at Masters' level at the University of Birmingham, UK, in 2018. She is currently doing a doctoral research degree with the Islands and Small States Institute, University of Malta. Her main research interests are the oral and written creole traditions of the Western Indian Ocean, in the postcolonial context.

**Neil Coppen** is a renowned and prolific South African storyteller, working across a variety of mediums and disciplines including theatre, journalism and film. Coppen has won several major awards for his writing, design and direction work including Naledi's, Fiesta and Kanna Awards, the Standard Bank

Young Artist Award for Drama 2011 and the 2019 Olive Schreiner Prize for Drama. Seminal to Neil's work across a range of cultures and communities in South Africa, is a social-justice, theatre-making methodology titled *Empatheatre* which Coppen co-founded. *Empatheatre* has been responsible for launching several ground-breaking theatre projects over the last decade in South Africa including *Soil & Ash* (focusing on rural communities facing pressure from coal-mining companies), *Ulwembu* (street-level Drug addiction), *The Last Country* (female migration stories), *Boxes* (Urban land justice inequalities in the city of Cape Town) and *Lalela ulwandle* (an international project supporting sustainable transformative governance of our oceans).

**Mariam de Haan** is currently working as the African collections curator at the British Library. She obtained her Research Masters in African Studies at Leiden University in 2020. She has researched extensively in East Africa, with a focus on Tanzanian culture, economics and politics. Her future research aims to examine manuscripts and items in Kiswahili that are held by the British Library.

**Bola Erinosho** is at the University of Cape Coast in Ghana where she teaches and researches in the areas of environmental and natural resources law and policy. She is a qualified barrister and solicitor. She obtained an LLM and Ph.D. in International Environmental Law from the Universities of Nottingham and Sheffield, in the UK, respectively. She is a co-investigator on the GCRF funded One Ocean Hub where she leads a work package on ocean legal pluralism.

**Dr. Kira Erwin** is an urban sociologist, and senior researcher, at the Urban Futures Centre at the Durban University of Technology in Durban, South Africa. Her research and publications focus largely on race, racialisation, racism and anti-racism work within the urban context. Her past projects explore narratives of home and belonging within the context of migration, gender and inclusion; as well as state delivered housing projects in the city. She is currently working on two environmental justice projects in Durban. The first, Lalela uLwandle is a collaboration with a team of researchers and civil society activists to think through how people's economic, spiritual, scientific and symbolic meanings of the sea should be part of ocean governance decisions. The second is a Zero-Waste project working with informal workers. She uses creative participatory methods and collaborates with colleagues in various creative fields to produce forms of public storytelling that extend research beyond the walls of academia.

**Mimi George** has a Ph.D. and is a cultural anthropologist and sailor who supports training youth to apply ancestral voyaging knowledge to current problems, including biodiversity loss and climate change. Mimi has documented voyaging traditions of Austronesian people in Papua New Guinea; a small, mixed-gender crew wintering a sailboat in Antarctic sea-ice, seahunter and reindeer herder networks and migrations across Bering Straits, and Polynesian islanders in SE Solomon Islands who build vessels and navigate by ancient designs, materials and methods, including weather modification and calling for ancestral lights that show the way to land. Mimi worked in response to requests for help by the people she worked with. She describes prominent roles of women and children in voyaging cultures, and how revival of ancestral voyaging networks creates sustainable and resilient communities and ecologies.

Lynn Harris is Professor of history at East Carolina University. Prof. Harris has a background in nautical and terrestrial archaeology and maritime history. She teaches courses in underwater archaeology methods, maritime material culture, maritime landscapes, watercraft history, coastal cultural resource management, African and Caribbean maritime history and archaeology. Teaching assignments have included directing summer abroad study programs and international field schools in Namibia, South Africa, Costa Rica and Dominican Republic. Harris also engages in research projects on the south eastern seaboard that integrate student researchers. Currently, two grant projects are underway. One to research and expand the African American maritime history on Portsmouth Island NC and another to conduct rapid site surveys of coastal heritage at risk using a variety of technologies and tools on diverse sites in NC, SC and GA. Each case study site has state or national historic significance, conservation management challenges and serves as an intellectual platform to segue between preservation of an historic icon and research questions. For the past four years, Harris has led a collaborative project with Costa Rican partners to study two shipwrecks and maritime legacies in Cahuita located on the Caribbean coast of Costa Rica. Most recently, Harris authored and edited two books, in addition to co-authoring articles published in International Journal of Nautical Archaeology, Journal of Maritime Archaeology, and Coriolis: Interdisciplinary Journal of Maritime Studies. Harris currently serves as faculty in the Program in Maritime Studies, Atlantic World Program, and Coastal Resources Management Doctoral Degree Program. She has served for several years as a member of the Advisory Council in Maritime Archaeology and is a Nautical Archaeology Society instructor who offered public workshops for diving stewardship groups locally and internationally with her colleagues. Harris welcomes graduate students who are interested in underwater archaeology, interdisciplinary research and applied maritime history projects (Source of biography East Carolina University, US).

**Prof. Jeremy Hills** is a Chartered Environmentalist with over 25 years of research and consultancy on the coastal and ocean. He has a M.Sc. in Ecology from Durham University (UK) and a Ph.D. focused on environmental modelling from Glasgow University (UK). Jeremy has worked in over 50 countries across the world. He has worked for many actors including international institutions such as the EU, UNESCO, UNDP, UNEP, UNESCAP, World Bank, Asian Development Bank, bilateral aid organisations and a range of other Non-Governmental (NGO) and commercial organisations. He has developed national and regional marine planning and policy and was a lead author on the Global Environment Outlook-6 (UNEP). He was Director of the Institute of Marine Resources at The University of the South Pacific and is presently a Professor at the same institution in the Office of the Deputy Vice-Chancellor (Research, Innovation & International). His research is on ocean policy and governance in developing countries, with a particular focus on development assistance, financing and blue economy.

**Isabel Hofmeyr** is Professor Emeritus at the University of the Witwatersrand and Global Distinguished Professor at NYU. She has published extensively on the Indian Ocean and oceanic studies. Her most recent book is *Dockside Reading: Hydrocolonialism and the Custom House* (2022). With Charne Lavery, she runs the Oceanic Humanities for the Global South project with partners from India, Mozambique, Jamaica and Barbados.

Elise Huffer is a culture, heritage and development consultant in Fiji and the Pacific Islands. For 10 years, Elise was the Culture Adviser at the Pacific Community (SPC, 2008–2017) providing technical advice on cultural policy, cultural industries and heritage to 22 Pacific Island countries. Prior to joining SPC, Elise was Associate Professor at the University of the South Pacific (USP) where she designed and taught the Pacific Studies graduate programme. She is Adjunct Associate Professor at the Oceania Centre for Arts, Culture and Pacific Studies at the USP and the Vice-Chair Oceania of the IUCN Commission on Environmental, Economic and Social Policy. She is a Fiji citizen and has been living in the Pacific Islands region for 35 years.

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**Taryn Pereira** is an activist researcher and facilitator, with a background in urban water justice and social learning to support civil society networks. Taryn is currently a co-investigator on the One Ocean Hub, focusing on the building of solidarity between academic researchers and community-based activists working across disciplines, sectors and knowledge systems towards coastal justice. As a researcher and co-facilitator on the Lalela ulwandle project Taryn experienced the incredibly powerful role that Empatheatre can play in bridging many of the intractable dividing lines in our society—lines of race, class, gender, literacy, language—and in so doing to set the stage for the building of equitable relationships between different groups of people, based on critical, reflexive solidarity.

Jens Kruger is the Acting Deputy Director for the Ocean and Maritime Programme of the Pacific Community (SPC). Jens is a graduate of the University of the South Pacific and completed an MSc at the University of Waikato, New Zealand. He has over 20 years of experience leading multidisciplinary applied research projects and has a particular interest in the use of marine science and technology in managing the development challenges of Pacific Small Island Developing States. Jens has worked in over 20 countries including several years as a seafarer on marine survey vessels. This work in the industry and with intergovernmental organisations has resulted in more than 80 publications including technical reports, maps, scientific papers and book chapters. Jens has shaped the Pacific regional approach to maritime boundaries for many years and is passionate about collaborative approaches to ocean governance.

**Dr. Charne Lavery** is Lecturer in the Department of English at the University of Pretoria and Research Fellow on the Oceanic Humanities for the Global South project (www.oceanichumanities.com) based at WISER, University of the Witwatersrand, South Africa. She explores literary and cultural representations of the deep ocean, the Indian Ocean, the Southern Ocean and the Antarctic seas, researching ocean writing of the global South in a time of environmental change. She completed her DPhil in English at the University of Oxford as a Rhodes Scholar, and her B.A. at the University of Cape Town. She is a South African Humanities and Social Sciences delegate to the International Scientific Committee on Antarctic Research (SCAR), coeditor of the Palgrave series *Maritime Literature and Culture*, and a board member of the journal *Global Nineteenth-Century Studies*. Her monograph *Writing Ocean Worlds: Indian Ocean Fiction in English* is forthcoming from Palgrave.

**Dr. Laura Major** is an anthropologist with international field research experience and expertise in environmental, political and legal anthropology, and the study of material cultures. As a research fellow with the GCRF One Ocean Hub based at the University of Strathclyde, Glasgow, UK, she developed collaborative transdisciplinary work with researchers based in the Caribbean, Ghana and South Africa.

Curtis Marean is the Foundation Professor of School of Human Evolution and Social Change, Arizona State University, Honorary Professor, Nelson Mandela University. Dr. Marean's research interests focus on the origins of modern humans, the prehistory of Africa, the study of animal bones from archaeological sites, and climates and environments of the past. In the area of the origins of modern humans, he is particularly interested in questions about foraging strategies and the evolution of modern human behaviour. Dr. Marean has a special interest in human occupation of grassland and coastal ecosystems. Dr. Marean conducts a variety of studies using zooarchaeology, the study of animal bones, and taphonomy, the study of how bones become fossils. He also is a dedicated field researcher and has conducted fieldwork in Kenya, Tanzania and Somalia, and since 1991 has focused his field efforts in coastal South Africa. He is the principal investigator for the South African Coast Paleoclimate, Paleoenvironment, Paleoecology, Paleoanthropology (SACP4) project based around Mossel Bay in South Africa at the field locality of Pinnacle Point. This large international project, funded by the National Science Foundation and the Hyde Family Foundation, employs a trans-disciplinary approach to modern human origins, climate and environment. Under his directorship, Pinnacle Point has become one of the world's most important localities for the study of modern human origins.

**Dr. Dylan McGarry** is an educational sociologist and artist from Durban, South Africa. He is a senior researcher at the Environmental Learning Research Centre (ELRC) at the University currently known as Rhodes. As well as the South African Director of the Global One Ocean Hub research network. Dylan is the co-founder of Empatheatre, and a passionate artist and storyteller. He explores practice-based research into connective aesthetics, transgressive social learning, decolonisation, queer-eco pedagogy, immersive empathy and socio-ecological development in South Africa. His artwork and social praxis (which is closely related to his research) is particularly focused on empathy, and he primarily works with imagination, listening and intuition as actual sculptural materials in social settings to offer new ways to encourage personal, relational and collective agency. **Evanthie Michalena** has specialised in green growth and sustainable energy policies and approaches since 1993. Evanthie was awarded a national scholarship from the Hellenic State (Greece) to accomplish her Ph.D. research (in the Geography Department in the Sorbonne University, France) and a Marie-Curie International European Fellowship from the European Commission to pursue postdoctoral research. She is Adjunct Professor at Fiji University, a Senior Research Associate in Sorbonne University, France and in the Aegean University, Greece. Evanthie is also a reviewer for established academic journals such as Nature. Evanthie assists the European Commission in the evaluation of proposals under numerous energy and environmental Calls as an EC Expert, and is appointed at the Special Advisor (Secretariat) for the Hellenic Regulator for Energy (RAE), Greece, where she now works on the monitoring of the Greek electricity market with an emphasis on sustainable energy and energy efficiency. She is also appointed as an expert from international organisations such as United Nations (UN) and Global Green Growth Institute (GGGI), European ones (such as the European Energy Regulator-CEER) and has offered her consulting and academic services to more than 80 countries around the world.

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**Dr. David O'Kane** is Associate of the Max Planck Institute for Social Anthropology, and a graduate of the National University of Ireland, Maynooth. He has conducted anthropological research in Eritrea and Sierra Leone, and has taught anthropology in both of those countries, as well as in the Republic of Ireland, Northern Ireland, mainland Britain, New Zealand and the Russian Federation. He is currently developing research projects that will look at the effects of the global coronavirus pandemic on Sierra Leone (and the role of the experience of the Ebola Virus Disease epidemic of 2014–2016 in that country's response to the pandemic), and the impact of the coronavirus pandemic on cross-border relations on the island of Ireland.

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researcher for the RP 5 component of the OOH research project in Ghana. As a Sociologist and Gender expert, she brings along nuanced socio-cultural perspectives in ocean research. She is positioned within the tangible and intangible heritage aspects of the project and has interest in women and children in the Blue Economy.

**Dr. Varsha Patel** is an independent social scientist. Her research: 'Memories, Royal Ports and Ruins of Sailing Boats: Sediments of Maritime Routes along the Bhavnagar Coast, Western India, 1900–2014' was supported by the Max Planck Institute for Social Anthropology between 2013 and 2016. She designed and taught seminars including 'Indian Ocean Histories', 'Nature, Science and Empire', 'Wildlife and Power in Colonial and Post-India', and 'Animals in Modern Indian Thought' at the University of Kassel until 2020. At present Varsha cultivates research interests in the Indian Ocean, Princely States in India and in Human Animal Studies.

**Dr. Elena Perez-Alvaro** is a postdoctoral fellow of the NRF Research Chair in Ocean Cultures and Heritage at Nelson Mandela University. She is also Blue Shield Representative for ICOM UK, acting as a liaison between organisations to protect cultural heritage during conflict, including humane and natural disasters. She is an accredited and authorised Associate Professor by the Minister of Universities of the Spanish Government and she works as a director of masters' dissertation for the Master of Cultural Management at the International University of La Rioja (Spain). She has large experience as a marine heritage consultant.

**Ryan Pillay** is the Deputy Director: Arts, Culture and Heritage at Nelson Mandela University. Pillay works as a researcher and project manager in the NRF Chair for Ocean Cultures and Heritage, Ocean Account Framework, and One Ocean Hub. His research areas include gender, heritage, memory and place, transformation, visual participatory methods and artbased methodologies. Through social enquiry he has designed, facilitated and documented processes in both the public, private and secular sectors. He currently holds the position of Trustee at the South End Museum and the Gcina Mhlope Trust in South Africa.

Anthea Christoffels-DuPlessis is an emerging researcher and an academic at the Nelson Mandela University, Faculty of Law Port Elizabeth, South Africa. She is a doctoral candidate under the supervision of Professor Patrick Vrancken and her research focus is on customary fishing rights in South African fisheries law. Dr. Pedro Pombo is Assistant Professor at Goa University and Associated Researcher at the Centre for Research on Slavery and Indentured, University of Mauritius. He received his Ph.D. in Anthropology from ISCTE-IUL, Lisbon (2015) with an ethnographic exploration on space, belonging and local history in Southern Mozambique. Earlier, Pedro graduated in Decorative Arts and Design and developing research on Indo-Portuguese architecture. Dr. Pombo's research traces Afro-Asian circulations through aesthetic and anthropological approaches, focusing on archival and material traces, heritages, landscapes and memories in the Indian Ocean. He is co-author of the documentary The Club (2021), on Goan diaspora in Tanzania, with the Nalini Elvino de Sousa, funded by the RTP-Portuguese Television. He is also an associated researcher with the Southern Atlantic/Indian Oceanic Africa cluster of the Project Regions 2050, WiSER, Wits University, South Africa and a 2021 Fellow of The Africa Multiple Cluster of Excellence, Bayreuth University, Germany. He was invited to present in the 'AfricAsia: Overlooked Histories of Exchange' Symposium, organised by the National Museums of Asian and African Art, Smithsonian Institute (2020) and in the Webinar series 'Indian Ocean World Material Histories', George Mason University (2021). From 2022, he will also be a research associate of the Ocean Cultures and Heritage Chair Programme at Nelson Mandela University, South Africa.

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**Dr. Dominique Santos** is Senior Lecturer in Anthropology at Rhodes University and Course Co-Ordinator for the Postgraduate Diploma in Heritage Management. Her scholarly work explores the intersections of music, play, dreaming and heritage practices with intimate experiences of the self, space and social change. She is interested in the place of dreaming and Indigenous Knowledge systems as speculative methodology when working with life stories, archives and heritage sites, and is an initiated stick diviner in the Dagara tradition.

**Rev Thebe Shale** is a traditional healer who grew up in his grandmother's traditional Emaswati home, also including baSotho and amaXhosa lineages and is a member of the Bakwena clan. Prior to initiating as a traditional

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## 1



#### Introduction: Blue Heritage, Human Development and the Climate Crisis

**Rosabelle Boswell** 

In the Hollywood blockbuster, *The Day After Tomorrow*, scientists discover that a predicted environmental crisis is happening a lot faster than expected. In a matter of days, instead of years, Earth would change beyond recognition, and humans would be forced to adapt. The film highlights the globalised nature of the disaster and the minutiae of human relationships, thrown into relief against a backdrop of unimaginable catastrophe. This book does not sensationalise the unfolding disaster that is the climate change crisis. That crisis is the present reality of billions worldwide, even if there are disagreements presently about the speed with which it is happening, or the coming intensity of its effects in the coming years. What this book hopes to do, is to provide insight into historical and contemporary human cultural attachments to the sea (sometimes described as cultural heritage), and the impacts of either political decisions and/or environmental degradation on human relationships with the sea and coasts. An important claim of the book is that humans hold diverse perspectives of the sea and coast. Inclusion of diverse,

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often marginalised perspectives of the sea in development, as well as consideration of marine inspired values and cultural practices deepen democracy and advance environmentally sound practices of ocean management.

The importance of inclusion cannot be overstated. The globalised Covid-19 pandemic is revealing historical and enduring schisms which affect not only mitigation of the pandemic but also global effort to resolve the climate crisis. Millions worldwide are already being forced to endure climate changes affecting livelihood, health and habitat. The situation is even more dire for those living in the Least Developed Countries (LDCs), as these countries are further compromised by human development challenges.

In the midst of the Covid-19 pandemic, national governments in LDCs and more developed countries are prioritising the immediate challenge of saving their citizens' lives. In part, this has involved curtailment of basic rights and ultimately, access to independent forms of livelihood. At the time of writing this book, most national governments across the developed world, however, were seeking to 'normalise' life for their citizens. They had already ensured that their citizens are vaccinated against Covid-19 and that life, as it was, before the pandemic, could resume in limited forms. As this book starkly reveals, for LDCs, Covid-19 looms large, alongside the wicked problems of exclusion, poverty, poor access to livelihood and enduring pollution. It appears to some authors in the book, that these problems trump both the climate crisis and the Covid-19 crisis.

The book also shows that national governments in the LDCs need to do more, to prioritise and safeguard Earth's blue heritages, that is, the tangible and intangible artifacts and 'assets' of the oceans and coasts, as well as the intimate, cultural relations that people have with Earth's oceans and coasts, as the latter are very difficult to repair and/or restore. Moreover, important decisions are being made by both international bodies and these governments that put both the tangible and intangible 'blue' heritages at risk of terminal degradation. Of added concern to the authors, is the fact that, to date, there are 1154 World Heritage Sites the majority of which are territorial. Only 50 sites are World Marine Heritage Sites. Not one of these sites is a cultural or culturally associated site. And on the list appraised, there were only two natural World Marine Heritage Sites in Africa. Considering tangible and intangible cultural heritages and at the time of writing, there were 145 such sites in Africa but up to 39% of these contain heritages in danger. The poor regard for culture and/or its precarious situation in Africa is astounding. In Africa and among ordinary people, culture is considered a major social asset and source of human rights, cohesion, creativity, prosperity and livelihood.

A critical review of the Blue Economy (BE) imperative in Africa, states that, 'large scale BE initiatives prioritize economic gains at the expense of environmental degradation and the exclusion of local communities' (Ifesinachi et al., 2020). The exclusion of local communities from the ocean management sector is critical given the intractable, and rapidly intensifying problems of climate change and general, environmental degradation that are devasting Earth's oceans.

Humans rely on the oceans for work, subsistence, habitation, healing and leisure. Over the span of human evolution, they have engaged with the oceans and coasts, conceptualising the marine space, aesthetically depicting it, using it for naval and imperial ambitions, lamenting it as a grave for slave descendant brothers and sisters, sailed it for sport and dived into it for other worldly experience.

This book, as previously stated, seeks to offer further insight into the diverse human social and cultural engagements with Earth's oceans and coasts. In part, the book shows what is at stake, if the trend of environmental degradation and the exclusion of local communities from ocean management continues. The book, however, also hopes to nuance accounts of negative, causal anthropogenic impacts on the environment, to reveal complex, symbiotic and intersubjective human interactions with the oceans and coasts. A major contribution of the book is its high estimation and valuation of human and cultural contribution to the 'blue economy'.

In monetary terms, it is estimated that the global ocean economy is worth 24 trillion US Dollars and that it is the seventh largest economy on earth (World Wildlife Fund, 2018). While several international reports provide detail on the financial dividends expected from the ocean economy (OECD, 2016; World Wildlife Fund, 2017), there appears to be little focus on the human, social and cultural value of, contribution to, and benefits to be gained from the oceans.

At the inception of the Intergovernmental Panel on Climate Change (IPCC) in 1988, states approving the committee pledged to align their strategies for growth with the UN SDGs. But since then, it has become evident that facilitating economic growth that is inclusive, equal and environmentally sound is extraordinarily difficult to achieve. Today and despite the reality of climate change, many nation states are still not keen to decarbonise the economy or pursue environmentally sound 'growth'. Historical legacies of inequality and injustice, still unresolved for centuries, are adding to the problem. Making inclusive and equitable participation in ocean management and climate management difficult.

Mindful of these challenges and the experiences of those caught in the climate crisis maelstrom, the United Nations (UN) has set in motion various actions, declarations and global agreements to help nation states mitigate

and/or adapt to the coming crisis. The UN interventions were apparent at the 2017 UN General Assembly where state parties pledged to support and implement SDG 14, the sustainable use and development of the oceans. The ensuing global ocean governance discussions, including COP21, culminated in the UN Decade of Ocean Science, which emphasised prioritisation of the health of marine ecosystems and the securing of ocean-based livelihoods.

The Post-2015 UN Development Agenda task team (UNESCO, 2012) however, identified that culture, 'a driver of development' was not explicitly stated in the SDGs and that effort must be made to include culture as a key metric. In this regard, the EU Parliament's report on actions for sustainability (2017), emphasised that culture, an essential resource and fourth pillar of development, cuts across all the SDGs. To this end, culture should be explicitly articulated as part of the EU's sustainable development goals. Similar sentiments were expressed in the African Union's Agenda 2063, where a major aspiration noted is the achievement of a culture-centric Africa, where sustainable development processes do not exclude culture. The AU indicated it aspires to achieve an 'An Africa with a strong cultural identity, common heritage, shared values and ethics' (African Union Commission, 2015, p. 2).

The inclusion of culture in development, however, goes beyond its relevance to the UN SDGs and ultimately to EU and AU goals. As stated further on, UNESCO's concept of culture and heritage (used to advance the conservation of biological and cultural diversity for decades), is evolving and has been at the forefront of globalised concepts of culture. While this understanding of culture is now included in discussions on human flourishing, belonging and diversity, governments in the Least Developed Countries noted in this book, have tended to portray culture and heritage as uncomplicated legacies and symbols of diversity. Heritage and culture appear to be for celebratory and recreational purposes.

But as this book shows, heritage and in particular 'blue' heritage, are important sources of cultural values, practices, sense of history, identity and solidarity. Understanding this is critical to the substantive implementation of the UN SDGs and global interventions for human development. Some of the authors writing here specifically mention the UN SDGs in the context of a discussion on the UN Decade of Ocean Science for Sustainable Development 2021–2030, the UN declaration on the Rights of Indigenous Peoples (UNDRIP) and the UN SDGs, specifically UN SDG 14 (Life below Water), UN SDG 1 (poverty alleviation) and UN SDG 5 (gender equality).

The authors in this book also discuss UNESCO's defined tangible and intangible cultural heritages and the relevance of this understanding of