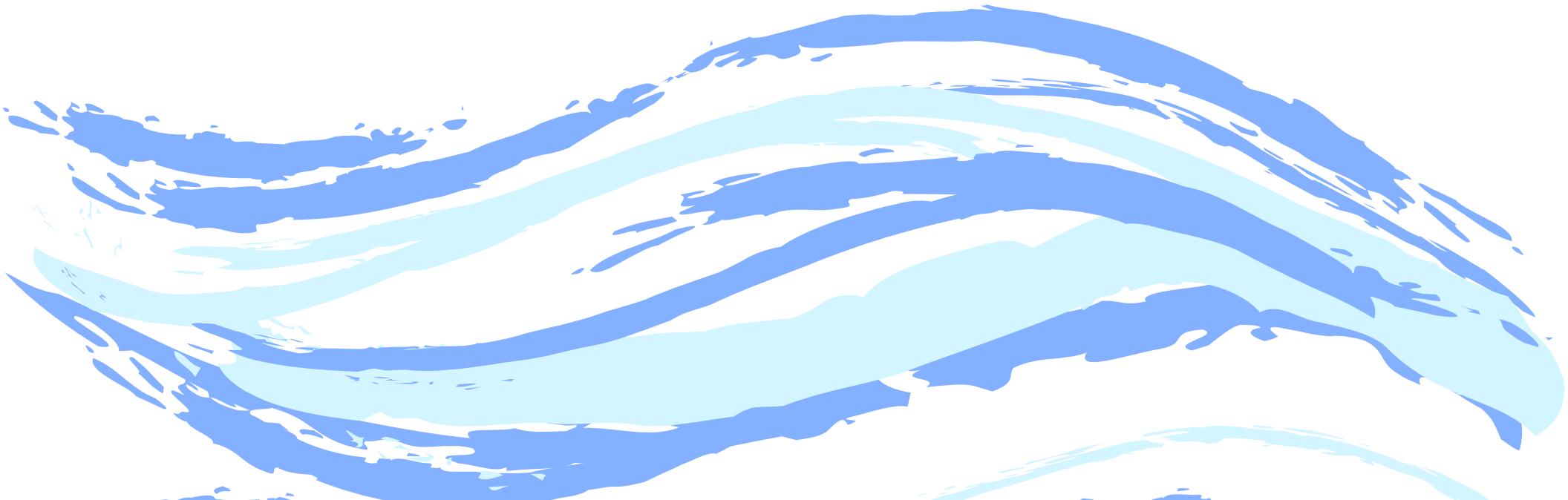




THE MEANING OF SMALL

Diverse values of
small-scale fisheries



Diverse values of small-scale fisheries

4

8

CONTRIBUTORS

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1

COUNTRIES

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REGIONS

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What makes small-scale fisheries unique?

Small-scale fisheries are part of the land - and seascape that many people are familiar with, mostly because of their presence in, and proximity to, places where tourism and recreational activities take place. Yet, unless one grows up in a fishing village, or comes from a fishing family, it is hard to fully appreciate the real meaning of small-scale fisheries. Small-scale fisheries are certainly not just a part of history, culture, and heritage that needs to be preserved like some people may think. Their values go beyond providing food, income, jobs, and livelihoods. What makes small-scale fisheries unique are the diverse values and meanings that are inherent to them, as well as those that they bring to society.

Our knowledge about the values of small-scale fisheries is very limited, partly because some of these values are non-monetary. Thus, small-scale fisheries are often regarded as insignificant. This photo e-book aims to change such a worldview by presenting the meaning, values, and importance of small-scale fisheries in various locations around the world, from the perspective of the people working closely with them. As we study values, we gain appreciation for what matters to people and what is desirable to the society. Ultimately, a comprehensive understanding of the diverse values of small-scale fisheries can lead to an improved management and governance of the fisheries resources and the ecosystems.

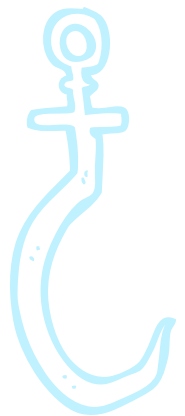


Advancing the understanding about the diverse values of small- scale fisheries



The photo e-book is an initiative of the Too Big To Ignore - Global Partnership for Small-Scale Fisheries Research (TBTI; toobigtoignore.net). Working with researchers and practitioners in partnership with fishers' associations, community-based organizations, environmental groups, and governments, TBTI examines small-scale fisheries in local, national and global contexts. The goal of TBTI is to identify key concerns affecting small-scale fisheries, stimulate a concerted research effort to address them, and direct policy attention to this vital sector in order to raise its profile. 'The Meaning of Small - Diverse Values in Small-Scale Fisheries' photo e-book is another step in that direction.

Through this publication, the TBTI network aims to advance the understanding about the diverse values of small-scale fisheries and engage the wider public in the conversation about the multifaceted meanings of small-scale fisheries. The photo e-book poses the question: what is the breadth of contributions for which small-scale fisheries are valued in their communities across the globe? We portray the plethora of these core values by using visual stimuli such as infographics and photos as a way to convey what small-scale fisheries mean in particular places.

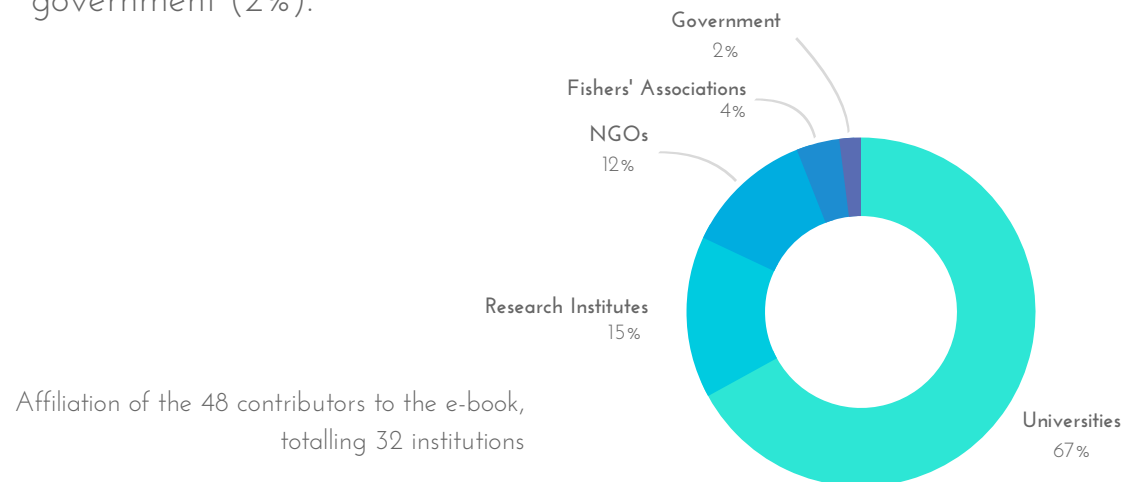


48 contributors from 32 institutions shared their knowledge and experience

The information contained in this photo e-book is a product of a close collaboration amongst TBTI members, partners and supporters of small-scale fisheries. They contributed their knowledge and experience about fishers, communities, and places that they are familiar with. They did so by identifying, through a rapid assessment survey, the range of values associated with a small-scale fishing community that they know, as well as the ecological, social and economic contexts of small-scale fisheries in each location.



The 48 contributors to the e-book are experts in the field of small-scale fisheries research and practice, and have an average of 10 years of experience in this topic. They are affiliated with 32 different institutions, which can be roughly divided into universities (67%), research institutes (15%), non-governmental organizations (NGOs) (12%), fishers' associations (4%), and government (2%).



15 value types that represent the meaning and contribution of small-scale fisheries

Contributors were asked to rank 15 value types (based on Song and Chuenpagdee 2015) associated with small-scale fisheries, on a scale of zero to five, with zero meaning that the particular type of value is not important for small-scale fisheries in that location, and five indicating that the value presents a very high importance in terms of the contribution to small-scale fisheries. They also provided a photo and a story that best represent the meaning of small-scale fisheries in their location.

Ecological conservation

Conflict resolution

Sense of freedom

Enhanced knowledge

Wellbeing and material wealth

Enjoyment and pleasure

Livelihood security

Sufficient catch and lifestyle

Sense of pride

Responsible governing system

Community cohesion

Recruitment of youth

Compliance of rules and regulations

Gender equity

Fair distribution of benefits

*The 15 value types based on Song and Chuenpagdee (2015)**

*Song, A.M., Chuenpagdee, R. (2015). Eliciting values and principles of fishery stakeholders in South Korea: A methodological exploration. *Society & Natural Resources* 28, 1075-1091.

32 case studies from 21 countries around the world

The photo e-book includes a total of 32 case studies describing the values of small-scale fisheries in 21 countries located across five regions. About 34% of these case studies originate from Asia and Oceania, followed by Latin America with 28%, and Africa, Europe and North America accounting for almost 13% of the total number. The specific case studies come from the following countries and locations: Bangladesh (Meghna River Estuary), Brazil (Teotônio Waterfall, Pernambuco, Ubatuba and Pontal do Paraná), Canada (Lake Winnipeg and Bay de Verde), Costa Rica (Playa Lagarto), Ecuador (Mainland and Galapagos Islands), Finland (Merikarvia), Greece (Skala Kallonis Bay), India (Gir Somnath), Indonesia (Southwestern Kei



Islands and Flores Island), Japan (Kamakura Bay and Suruga Bay), Madagascar (Sainte Luce), Maldives (Laamu Atoll and Fuvahmulah), Mexico (Holbox Island), Mozambique (Sofala Bank), Philippines (Aklan and San Mariano), Portugal (Azores), Republic of Kiribati (Tarawa Island), South Africa (Struisbaai), Spain (Cabo de Palos), Tanzania (Busekera Village), and USA (Sitka and Cook Inlet).

How to navigate through 'The Meaning of Small' photo e-book

PART III The meaning of small in Asia & Oceania

The BIG To: The Meaning of Small Diverse Values of Small-Scale Fisheries
IGNORE TBTI Publication Series

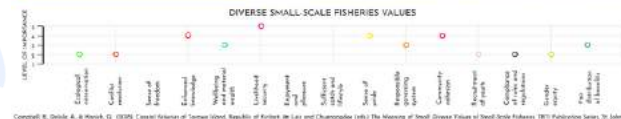
Lagoon fisheries of Tarawa Island, Republic of Kiribati

Brooke Campbell, Aurélie Delisle and Quentin Hanich
University of Wollongong

"A man and his family fish in Tarawa lagoon, Republic of Kiribati. The urban capital of South Tarawa and rural North Tarawa share the lagoon's fisheries for daily food and livelihoods. In a country of low-lying islands and limited land area, Kiribati people are at home in the ocean."



SMALL-SCALE FISHERIES CHARACTERISTICS	
Ecosystem type	marine
Main gear	cast-net gillnet, spear, others
Target species	landfish, sea bream, sea bream, sea bream
Vessel type	wooden outrigger canoe, wooden or aluminium boat
Number of small-scale fishers	3000
Number of small-scale fishing vessels	1000



Campbell, B., Delisle, A., & Hanich, Q. (2024). Lagoon fisheries of Tarawa Island, Republic of Kiribati. In: Long, S. & Chantapong (Eds.) The Meaning of Small Diverse Values of Small-Scale Fisheries. TBTI Publication Series, 31. Johns, VA, Canada.

The photo e-book is divided into five parts, presenting the diverse values of small-scale fisheries by region: (I) Latin America, (II) North America, (III) Asia and Oceania, (IV) Africa, and (V) Europe. Each part contains a collection of case studies depicting the importance of small-scale fisheries based on the rating of the value types, accompanied by a photo and a caption that highlights the meaning of small-scale fisheries in a particular place, community, or fishery. Each case study also contains the key characteristics of small-scale fisheries, such as the ecosystem type, main gear, target species, vessel type, number of vessels, and number of fishers.

The BIG To: The Meaning of Small Diverse Values of Small-Scale Fisheries
IGNORE TBTI Publication Series

Sainte Luce lobster fishery, Madagascar

Stephen Long
University College London and ICRD Madagascar

"Fishermen in Sainte Luce prepare to depart in the half light of dawn. Paddling on round trips of up to 35km, the fishers will check pots deployed overnight, set new pots and return with lobster to be sold to collectors on the beach, destined for global markets."



SMALL-SCALE FISHERIES CHARACTERISTICS	
Ecosystem type	marine
Main gear	spiny lobster
Target species	spiny lobster
Vessel type	outrigger canoe
Number of small-scale fishers	100
Number of small-scale fishing vessels	60



Long, S. (2024). Sainte Luce lobster fishery, Madagascar. In: Long, S. & Chantapong (Eds.) The Meaning of Small Diverse Values of Small-Scale Fisheries. TBTI Publication Series, 31. Johns, VA, Canada.

The BIG To: The Meaning of Small Diverse Values of Small-Scale Fisheries
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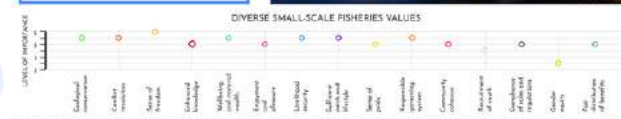
Small-scale fisheries of Cabo de Palos, Islas Hormigas MPA, Spain

Miguel Lorenzi
Heriwell University of Newfoundland

"Artisanal fishers have been working on the coasts of the Spanish Mediterranean Sea for thousands of years. Traditionally a family business, these men and women have shaped our coasts and created our traditions. Julia's grandfather was a fisherman and one of the pioneers of the village of Cabo de Palos, south Spain. He built the Virgen del Carmen, a fishing boat in 1909 and since then it is the way of life of three generations of his family."



SMALL-SCALE FISHERIES CHARACTERISTICS	
Ecosystem type	marine, coastal
Main gear	gillnet, lobster trap, spear
Target species	red mullet, green mullet
Vessel type	longboat, motor boat
Number of small-scale fishers	10
Number of small-scale fishing vessels	4



Lorenzi, M. (2024). Small-scale fisheries of Cabo de Palos, Islas Hormigas MPA, Spain. In: Long, S. & Chantapong (Eds.) The Meaning of Small Diverse Values of Small-Scale Fisheries. TBTI Publication Series, 31. Johns, VA, Canada.

PART V The meaning of small in Europe



A rich composite of stories
about the people and the
aquatic environment

The photo e-book is a rich composite of stories about the people and the aquatic environment, of the intricate interrelationship, and of the complex values associated with small-scale fisheries. It is an attempt to make explicit the values of small-scale fisheries, which are either unnoticed or under-appreciated. It is hoped that this type of knowledge gets incorporated into the design of appropriate institutions, daily decision-making, as well as in broader considerations of governance. Through this work, the TBTI partnership and its members aspire to further the understanding of the diverse values of small-scale fisheries, and share it with the general public, raising therefore the visibility of this vital sector.



If you are keen to tell the world about the small-scale fisheries that you are familiar with, please complete the rapid assessment survey at <http://toobigtoignore.net/researchcluster/diverse-ssf-values/>. Your case study will be included in the 2nd edition of the photo e-book publication, which will be disseminated at the 3rd World Small-Scale Fisheries Congress, to be held in Chiang Mai, Thailand, in October this year <https://toobigtoignore.wixsite.com/3wsfcongress>.

*Editors: Mirella de Oliveira Leis
Ratana Chuenpagdee*



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Marta Collier Ferreira Leite and Derek Johnson

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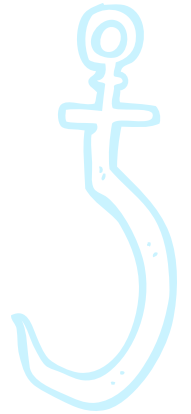
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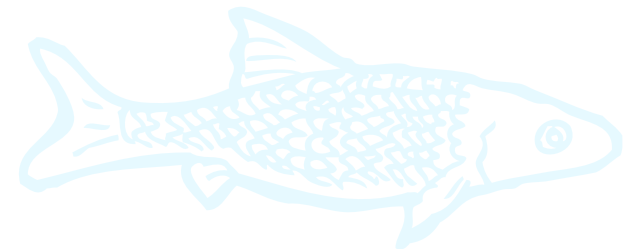
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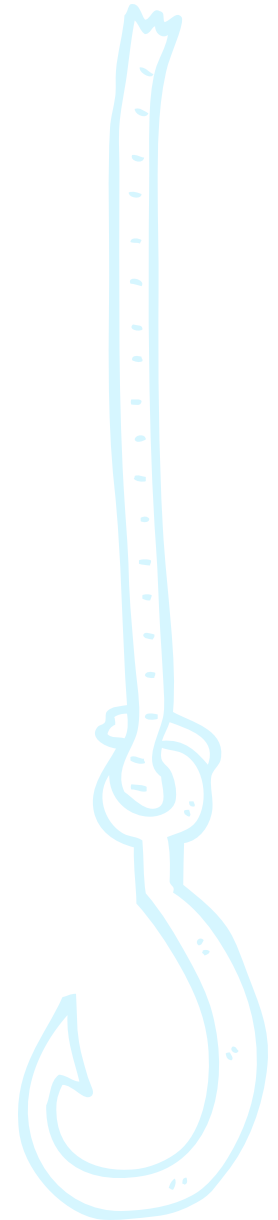
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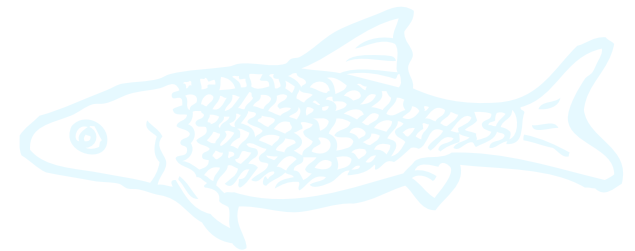
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PART I

The meaning of small in
Latin America



Small-scale fisheries of Cachoeira do Teotônio, Porto Velho, Brazil

Carolina Rodrigues da Costa Doria

Federal University of Rondônia

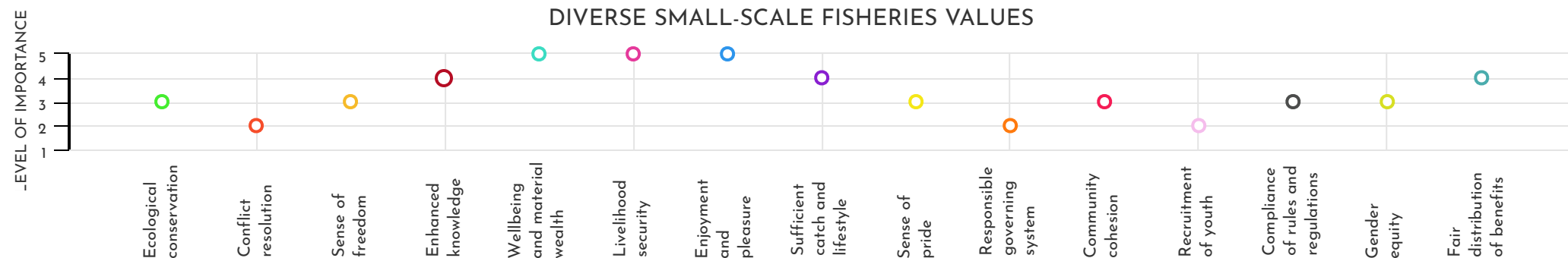
"The small-scale artisanal fishing in the Teotônio Waterfall had been practiced for a hundred years in a very peculiar way. The fishermen built wooden piers above the rocks, from where they used to catch big catfishes (> 1m) during their migration, using harpoon. This region was recently flooded by the Santo Antônio hydroelectric plant reservoir, which caused the communities to be relocated upstream and this type of fishing technique to end, giving place to wooden boats."



SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	freshwater; waterfall
Main gear	harpoon
Target species	catfish; piramutaba; dourada
Vessel type	no vessel
Number of small-scale fishers	102
Number of small-scale fishing vessels	0

© G. Torrente-Vilara





Clam and shellfish fishery, Pernambuco State, Northeast Brazil

Sérgio Macedo Gomes de Mattos

Ministry of Planning, Brazil

"Fisherwomen proudly fish for clam and shellfish in Pernambuco State's estuaries, located in the Northeast region of Brazil. Wooden rowboats are used mainly for transportation to and from the clam fishery areas. Children usually help their mothers by starting to fish from childhood."

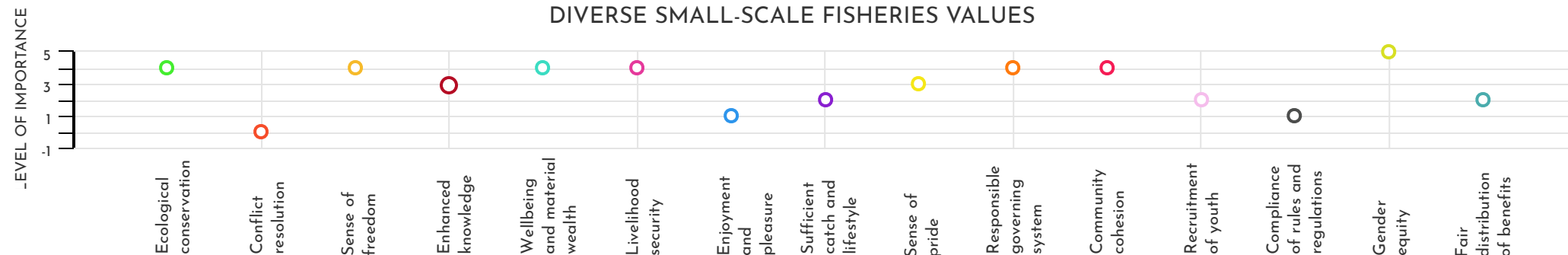


©Sérgio Mattos

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	brackish
Main gear	gleaning
Target species	clam
Vessel type	raft
Number of small-scale fishers	10000
Number of small-scale fishing vessels	unknown

DIVERSE SMALL-SCALE FISHERIES VALUES



'The waves wash our problems away' - Caiçara community in Ubatuba, Southeastern Brazil

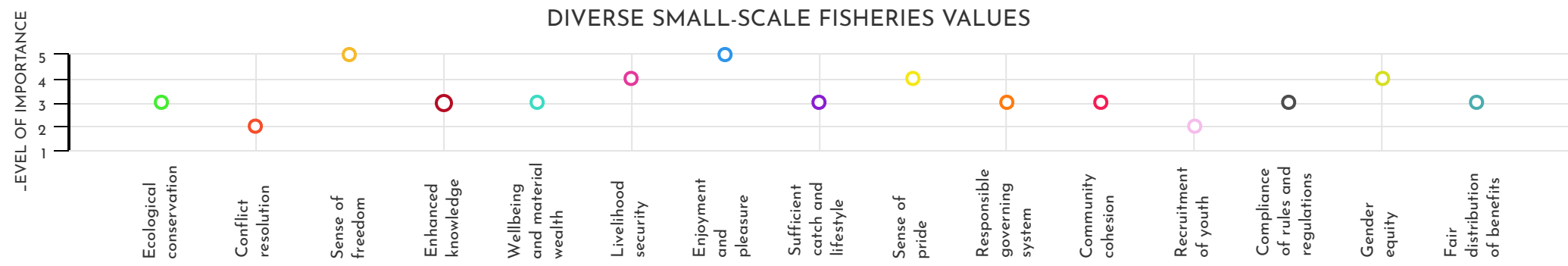
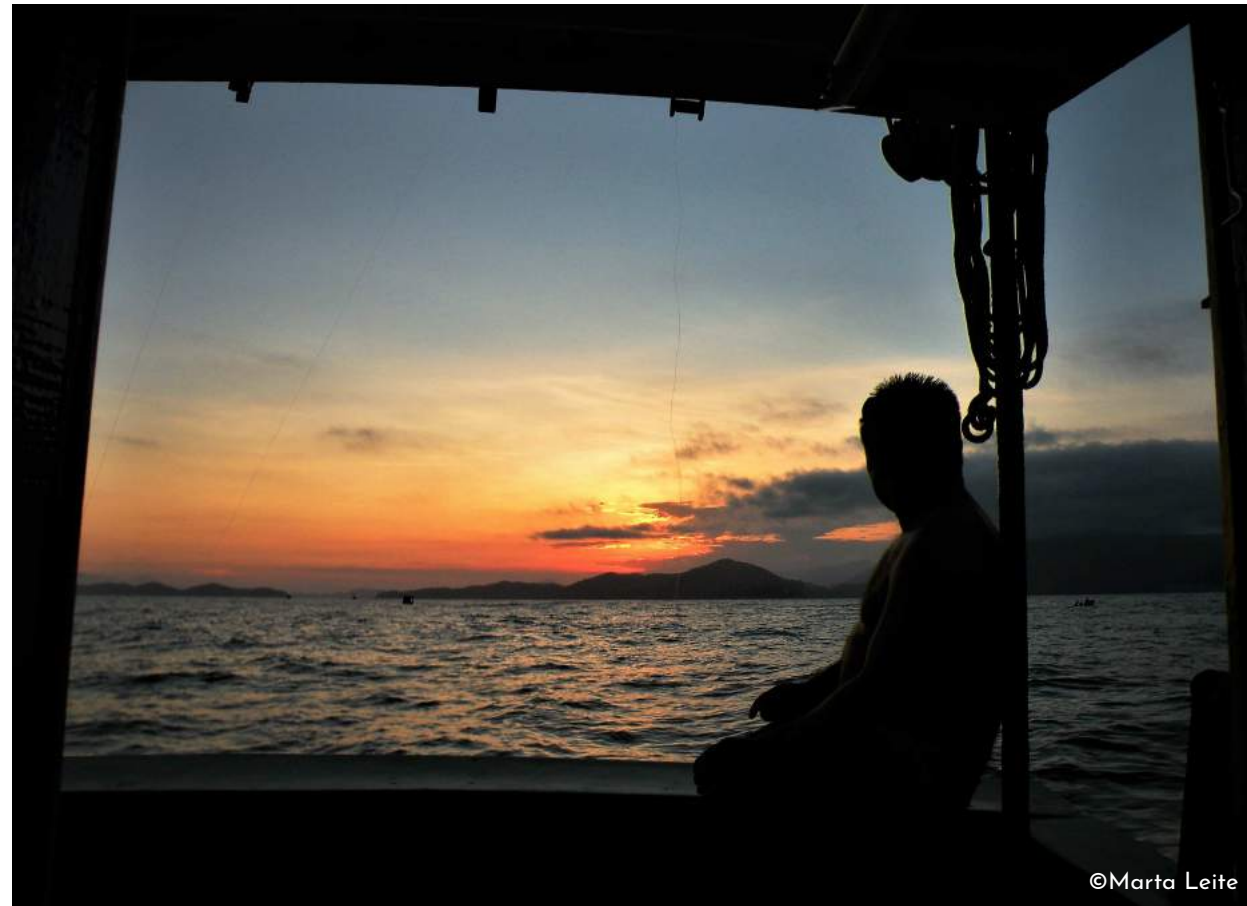
Marta Leite & Derek Johnson
 University of Manitoba



"A fisher pauses to contemplate the sunset as he navigates back home. Artisanal Caiçara fishers from Ubatuba, Brazil, describe the pleasure of being at sea as essential for their emotional resilience. According to them, it offers a source of relief from day-to-day struggles and provides stress reduction and hedonic pleasure."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	gillnet; hook and line; trawl
Target species	croaker; mackerel; shrimp; squid; others
Vessel type	canoe; aluminum boat; trawler
Number of small-scale fishers	48
Number of small-scale fishing vessels	43





'Faith in God, my family and my boat, what else could I ask for?' - Caiçara community in Ubatuba, Southeastern Brazil

Marta Leite & Derek Johnson

University of Manitoba

"A fishing boat in procession to celebrate São Pedro Fisher's day in Ubatuba, Brazil. Faith in God, family togetherness, and fishing compose central elements of what locals call 'the simple life', which in turn, is a core value in Caiçara fishers' identity."

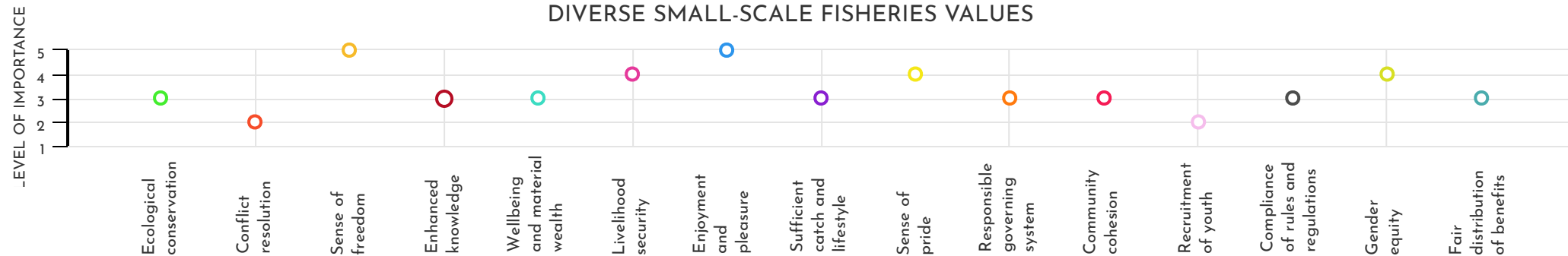


©Marta Leite

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
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DIVERSE SMALL-SCALE FISHERIES VALUES





Artisanal fisheries of Pontal do Paraná, Paraná State, South Brazil

Mirella de Oliveira Leis

Memorial University of Newfoundland

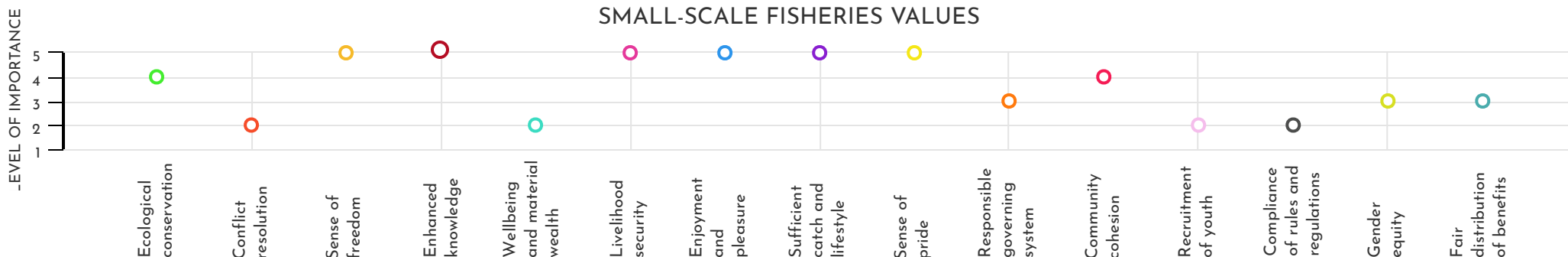
"Seu Jair learned how to fish from his father at the age of ten. Fishing has been part of the family tradition and passed down for generations. It is in the spirit of what Seu Jair's sons have proudly become - fishers. To them, artisanal fisheries is part of their daily lives, and is what connects them as a 'big coastal family'."



©Mirella de Oliveira Leis

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; coastal
Main gear	gillnet; bottom-trawl; hook and line
Target species	croaker; mackerel; mullet; shrimp; hake; flounder
Vessel type	fiberglass/wooden canoe; 6-12m; 11-24HP
Number of small-scale fishers	400
Number of small-scale fishing vessels	96





Small-scale fisheries of Playa Lagarto, North Pacific, Costa Rica

Helven Naranjo-Madrigal

ALNA. S.A.

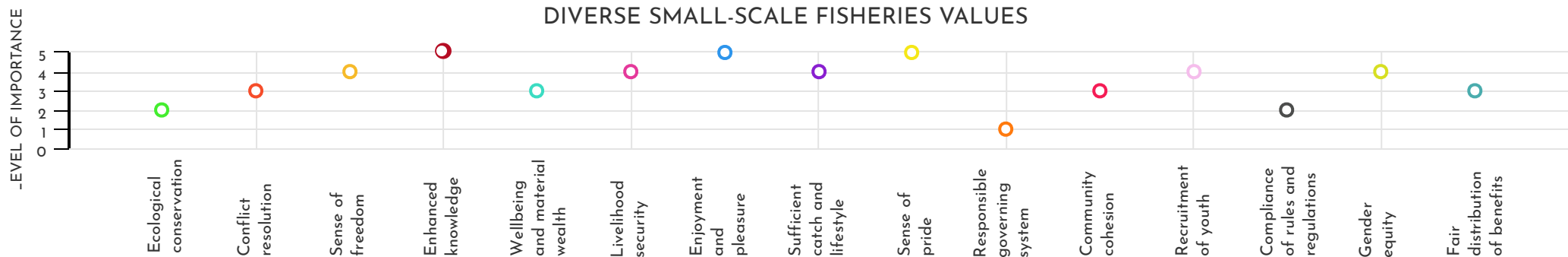
"In order to obtain subsistence catch to take home, people from the community help fishers to take boats to the beach, equipment to warehouses and with other landing's tasks. Other social interactions are reinforced through the landing activity. This kind of social interactions reinforce the socio-cultural values of small-scale fisheries in Latin America."



©Helven Naranjo-Madrigal

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	harpoon; hook and line; hookah
Target species	green lobster; octopus; parrotfish
Vessel type	fiberglass/wood
Number of small-scale fishers	45
Number of small-scale fishing vessels	12





Small-scale fisheries in Galapagos Islands, Ecuador

Maria José Barragán-Paladines

University Leibniz Centre for Tropical Marine Research (ZMT)

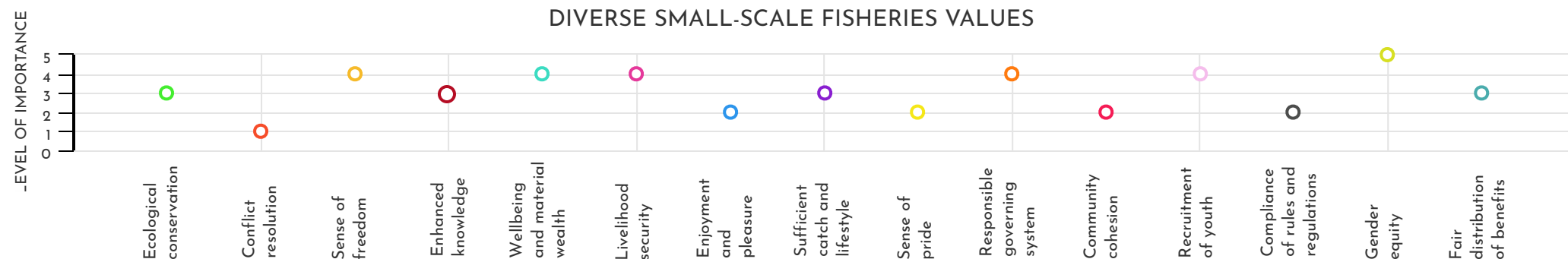
"In the late 1980s, small-scale fisheries became an important activity in Galapagos Islands. From then onwards, the involvement of the local population with the fisheries sector has gained relevance at the social and economic realms. Since its boom, many thousands of migrants from the Ecuador mainland arrived to the islands to start a new life. After a couple of decades, however, the tourism industry within the islands has increased, with more fishers shifting to tourism-related jobs."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; archipelago
Main gear	vertical long liner
Target species	yellow-fin tuna; Galapagos grouper
Vessel type	fiberglass vessel
Number of small-scale fishers	1000
Number of small-scale fishing vessels	400



©Maria José Barragán-Paladines





Small-scale fisheries in Puerto Lopez, Manabi Province, Ecuador

Maria José Barragán-Paladines

University Leibniz Centre for Tropical Marine Research (ZMT)

"Fishing activities have been playing a critical role within Ecuadorian coastal communities since at least 4,000 B.C. Livelihood provision used to be the most important aim of small-scale fisheries until the late 1960s, when commercial fishing activities gained relevance as an economic engine for the local fishing villages. Currently, in spite of threats to small-scale fisheries sustainability and the fishing communities' viability, small-scale fisheries are still a key element in the local economy as a relevant source of income and a social bonding element."

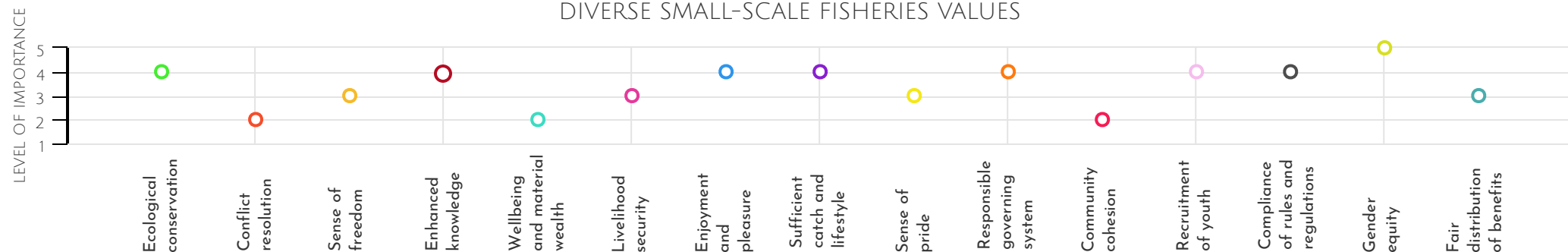
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; coastal
Main gear	gillnet; long liner
Target species	sword fish; mahi mahi; wahoo
Vessel type	fiberglass vessel
Number of small-scale fishers	> 70000
Number of small-scale fishing vessels	> 15000



©Maria José Barragán-Paladines

DIVERSE SMALL-SCALE FISHERIES VALUES





Small-scale fisheries at Holbox Island, Mexico

Nadia T. Rubio-Cisneros, M. Moreno-Baez, A. Sáenz-Arroyo, J. Glover, & D. Rissolo

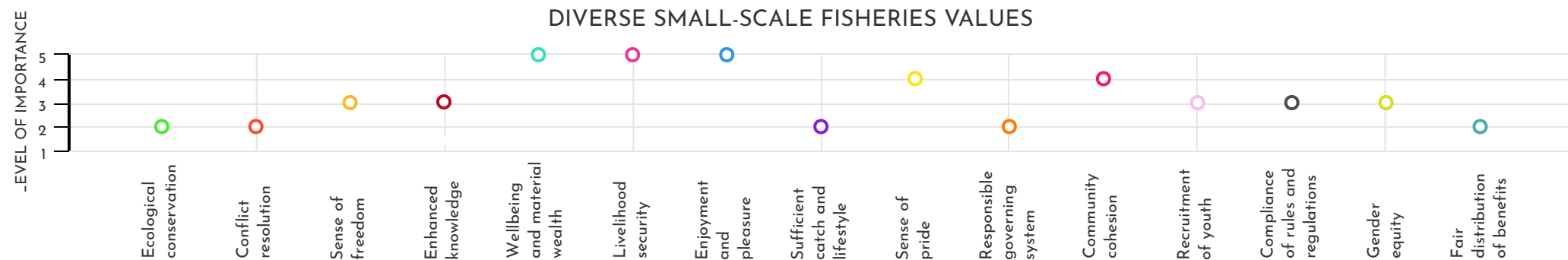
Centro de Investigación y de Estudios Avanzados; University of New England; El Colegio de la Frontera Sur; Georgia State University; University of California

"Julio Zapata proudly acknowledges his fishing heritage. His dad Miguel Zapata is descendant from the early mestizos and Europeans that settled at the island in late 1800's. Julio's ancestors practiced fishing the 'tough way' with simple gears, wooden sailboats, and lots of free diving. Julio successfully accomplished a college degree, but he prefers fishing. Every afternoon after filleting the fish from the 'catch of the day' he shares the leftovers!"



SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	gillnet; harpoon; hook and line
Target species	lobster; octopus; snapper; mullet
Vessel type	fiberglass; 7m
Number of small-scale fishers	1774
Number of small-scale fishing vessels	688





PART II

The meaning of small in
North America



The tragedy of commercial fishing quotas in Lake Winnipeg, Canada

Durdana Islam & Fikret Berkes

University of Manitoba

"Commercial small-scale fishing in Lake Winnipeg is regulated by quotas on the three main economically profitable species. Fishers may bring 20 tubs of quota fish per day; over-quota harvests cannot be sold. Other species are low-value by-catch, where shipping costs exceed revenue. Consequently, the fisher is faced with a dilemma: either bring in over-quota fish and by-catch at his/her own expense (and risk), or 'feed the fish to the eagles'. Many choose to bring in the fish to share with the community."

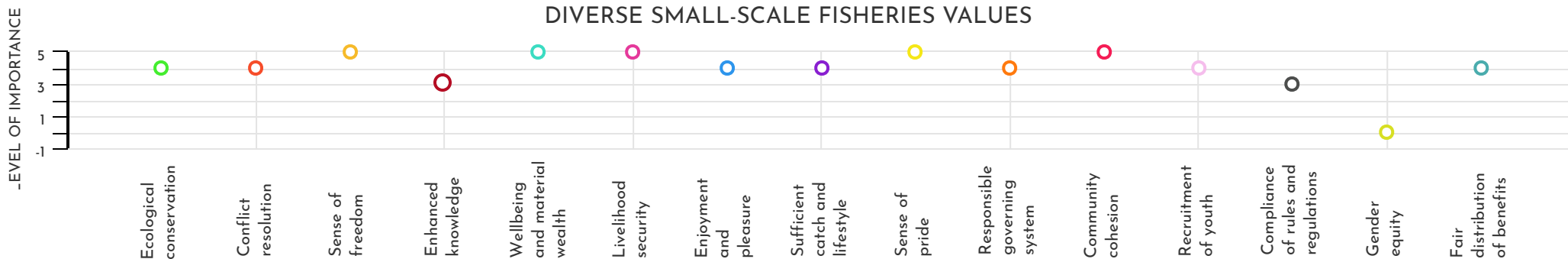
SMALL-SCALE FISHERIES CHARACTERISTICS

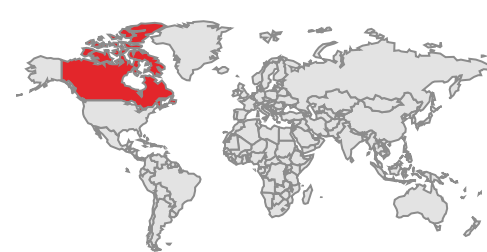
Ecosystem type	freshwater
Main gear	gillnet
Target species	walleye; lake whitefish; sauger
Vessel type	fiberglass; 240HP
Number of small-scale fishers	150
Number of small-scale fishing vessels	50



© Durdana Islam

DIVERSE SMALL-SCALE FISHERIES VALUES





Inshore fisheries of Bay de Verde, Newfoundland, Canada

Joonas Plaán

Memorial University of Newfoundland

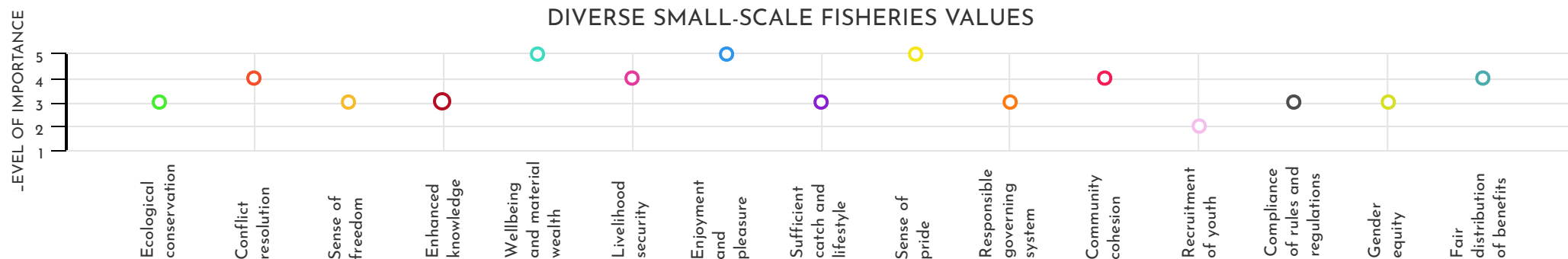
"Inshore fishers in Bay de Verde have been fishing cod for over 300 years. Atlantic cod has been a source of social formation and inspiration for cultural life but also deeply embedded into local socioeconomic settings. The Cod Moratorium in 1992 brought big changes in Bay de Verde and other small fishing communities in Newfoundland. Today the men in Bay de Verde are amazed how codfish has returned, and are astonished that they are still fishing in late November."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	gillnet; hook and line; traps
Target species	queen/snow crab; Atlantic cod; capelin
Vessel type	trap skiff (26-28"); longliner (<35")
Number of small-scale fishers	66
Number of small-scale fishing vessels	54



© Joonas Plaán





Sustainable fisheries in Sitka, Alaska, United States of America

Linda Behnken & Alyssa Russell

The Alaska Longline Fishermen's Association (ALFA)

"Alaska's coastal communities depend on access to healthy, abundant fisheries. The Alaska Longline Fishermen's Association (ALFA) was formed in 1978 to safeguard this access and the health of coastal fisheries. ALFA promotes sustainable fisheries and thriving fishing communities through policy advocacy, collaborative research, and innovative programs to support young fishermen. ALFA is run by fishermen for fishermen."

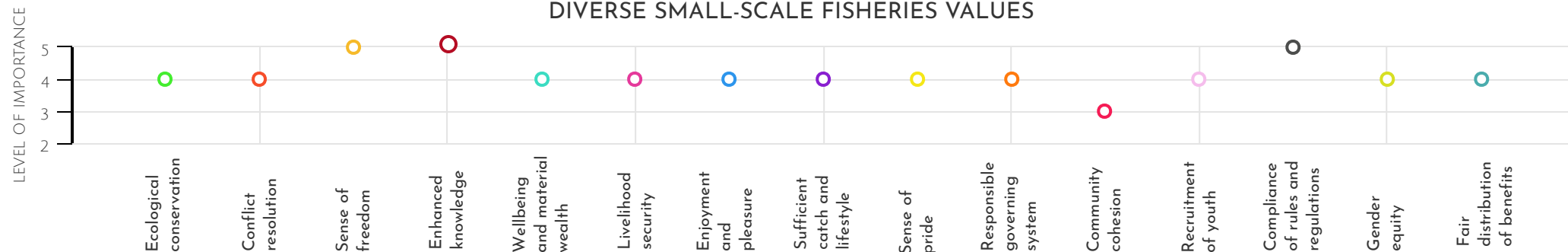
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	hook and line; seine net; gillnet
Target species	halibut; sablefish; rockfish; salmon
Vessel type	longline; troll; seine; 120-450HP
Number of small-scale fishers	1000
Number of small-scale fishing vessels	650



© ASMI/Josh Roper Photography

DIVERSE SMALL-SCALE FISHERIES VALUES





The Upper Cook Inlet set net fishery, Alaska, United States of America

Philip A. Loring

University of Saskatchewan

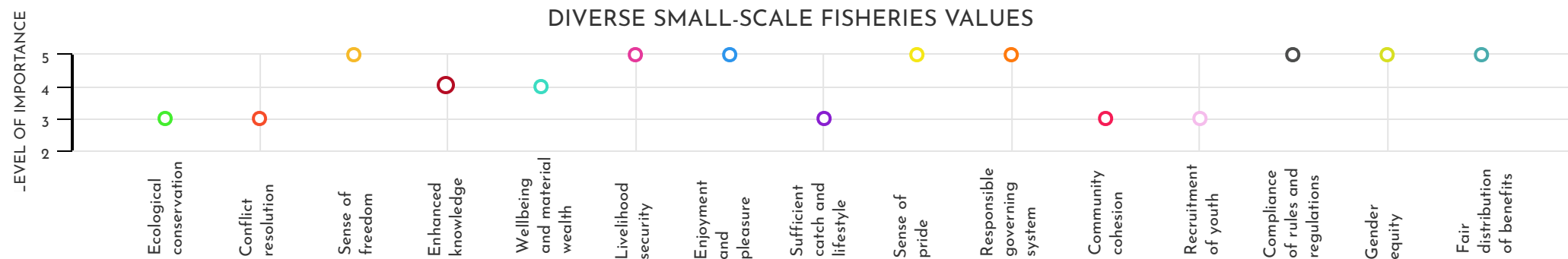
"Set-netters test the waters off the eastern Kenai Peninsula. On this opening day in 2012, the salmon were not yet running at full force, giving these newcomers a chance to learn how to operate their gear. Alaska's Upper Cook Inlet (UCI) and Kenai Peninsula are well known for their abundant salmon runs, which support commercial, sport, personal-use, and subsistence fisheries."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	gillnet
Target species	sockeye salmon
Vessel type	aluminum skiff; 24-30'; 90HP
Number of small-scale fishers/fishers	600
Number of small-scale fishing vessels	120



© Philip A. Loring





PART III

The meaning of small in
Asia & Oceania



Nomadic fishers in the Meghna River Estuary, Bangladesh

Mohammad Mahmudul Islam

Sylhet Agricultural University

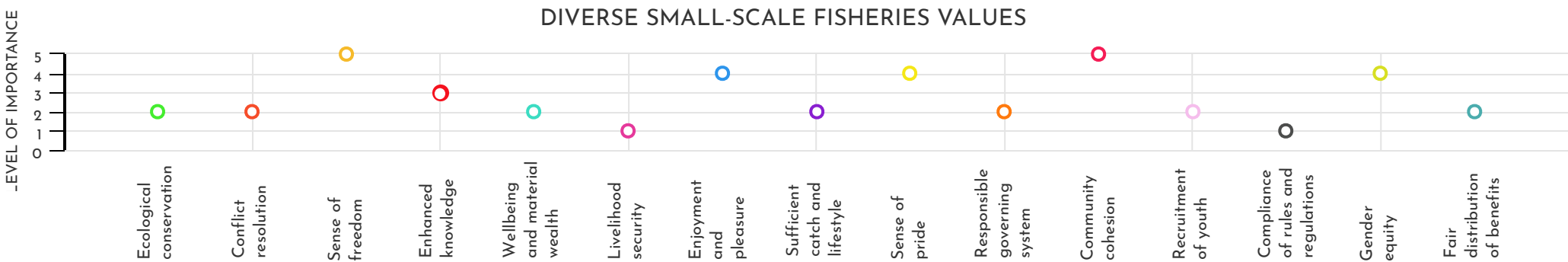
"The *Bede* or nomadic communities spend their lives on houseboats and traveling throughout the river ways in Bangladesh. Being mostly illiterate and extremely poor, nomadic fishers depend on small-scale fishery for their employment and income. For the fishing nomad, the hilsa (*Tenualosa ilisha*) fishery brings material success, which further leads to multiple relational and subjective benefits."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	freshwater; brackish
Main gear	gillnet; bait and hook
Target species	hilsa; catfish
Vessel type	wooden; <15m
Number of small-scale fishers	32
Number of small-scale fishing vessels	8



© Mohammad Mahmudul Islam





Small-scale bag net fisheries of Gir Somnath, Gujarat State, India

Rajib Biswal

University of Manitoba

"Fishing is much more than just harvesting. The bag net fishery at the Arabian Sea coast of Gujarat entails multiple interactions among people from different age, gender, class and caste."

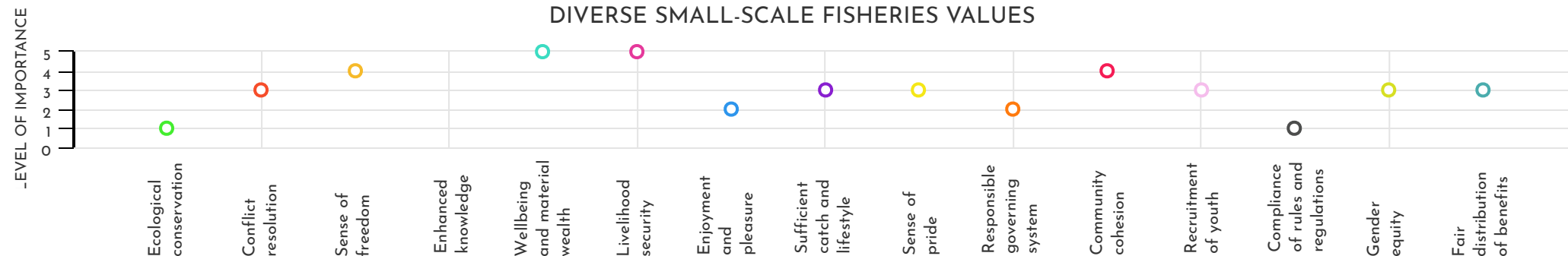
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; coastal
Main gear	bag net; hook and line
Target species	Bombay duck; giant catfish; prawn
Vessel type	inboard engine; 15-25HP
Number of small-scale fishers	2500
Number of small-scale fishing vessels	450



© Rajib Biswal

DIVERSE SMALL-SCALE FISHERIES VALUES





Small-scale flying fish roe fishery, Southwestern Kei Islands, Indonesia

Dirk J. Steenbergen

Charles Darwin University

"Anchored off Nuhuta Island, in Southeast Maluku district, this crew member rests in between roe harvest fishing trips; drying palm-leaf-floats for next deployment. Depending on extent of spawning activity by flying fish, boats may be continually at sea for up to two weeks before returning to land for supplies."

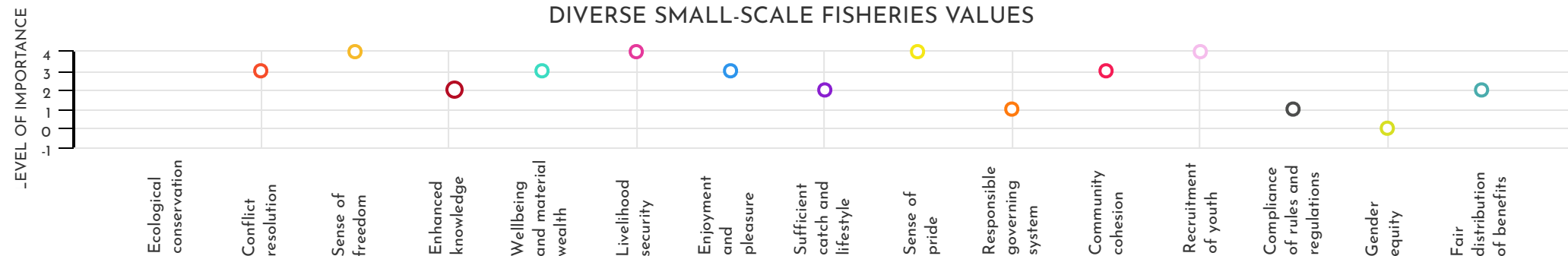


© Dirk J. Steenbergen

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; pelagic
Main gear	spawning aggregating devices
Target species	roe of flying fish
Vessel type	'bugis' and 'butonese'; 5GT
Number of small-scale fishers	400
Number of small-scale fishing vessels	100

DIVERSE SMALL-SCALE FISHERIES VALUES





Small-scale purse seine fishery, Wuring, Flores Island, Indonesia

Frances Every

Charles Darwin University

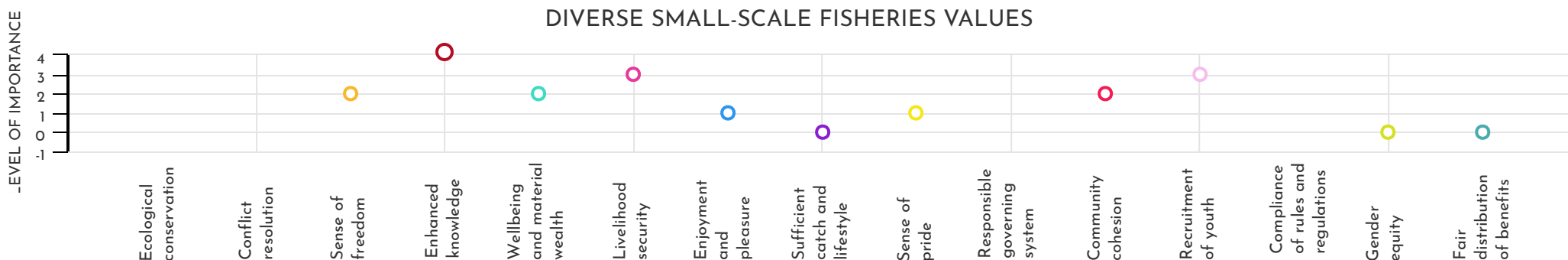
"The purse seine fishery is the primary livelihood for Bajo in Wuring Laut who work as crew and fish traders. Before the purse seine's arrival in the 1970's, Bajo relied on canoe fishing and reef gleaning. Now due to historical, biological and economic factors they are reliant on the purse seine fishery for their livelihoods."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	seine net; surrounding net
Target species	scad; sardine; mackerel; skipjack
Vessel type	purse seiner; 24HP
Number of small-scale fishers	364
Number of small-scale fishing vessels	60



© Frances Every





Small-scale fisheries of Kamakura Bay, Japan

Tamano Namikawa

The Japanese Institute of Fisheries Infrastructure and Communities

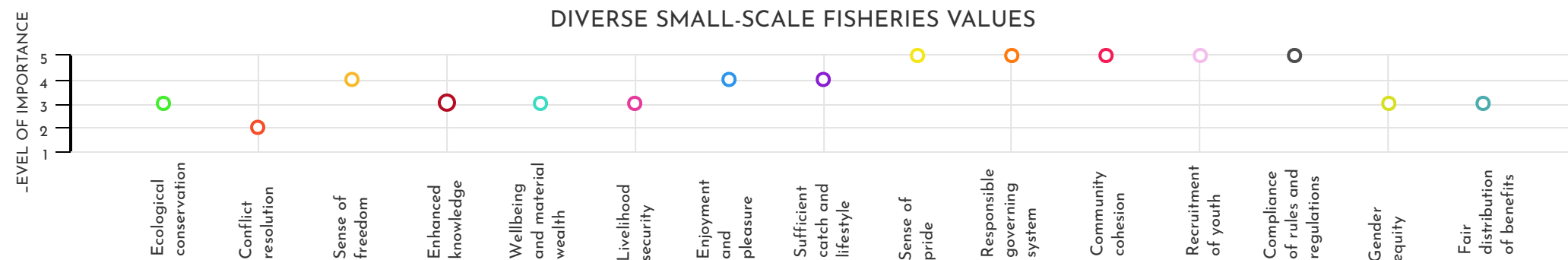
"A fishing boat setting off from the beach in one winter morning. They often sell their catch on the beach. Through this 'Beach Market', people in Kamakura can enjoy the bounty of the Kamakura Bay."



© Tamano Namikawa

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	gillnet; gleaning; harpoon
Target species	shirasu; turban shell; abalone; lobster
Vessel type	outboard
Number of small-scale fishers	54
Number of small-scale fishing vessels	46





Sakura shrimp small-scale fishery in Suruga Bay, Japan

Yinji Li

Tokai University

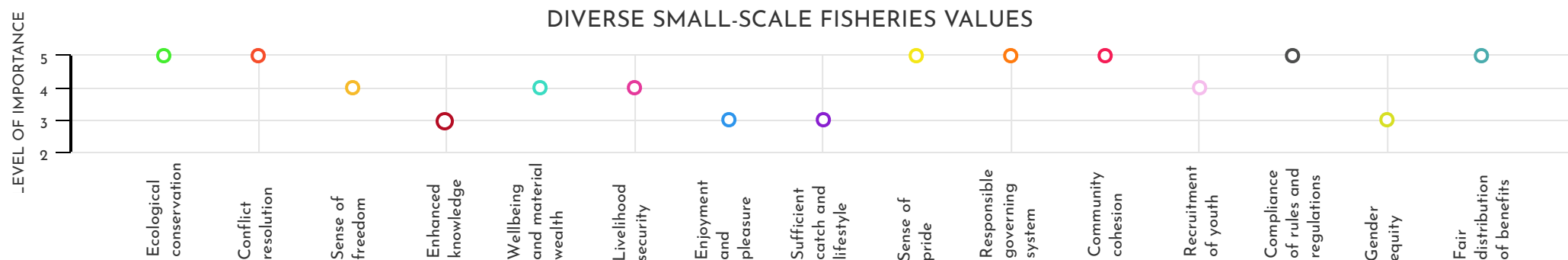
"Fishing operation of Sakura shrimp (*Sergia lucens*) fishery during fall fishing season of 2016, in Suruga Bay, Shizuoka prefecture, Japan. Two boats usually work together in Sakura shrimp fishery, and there are two fishing seasons in a year, spring and fall. During day time, the shrimp live 200 meters below the surface, rising to 50 meters at night time, which is when this fishery usually takes place."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	boat seine
Target species	Sakura shrimp
Vessel type	power driven vessel (120-850ps); 15m
Number of small-scale fishers	933
Number of small-scale fishing vessels	120



© Fisheries Cooperative Association of Yui





Lagoon fisheries of Tarawa Island, Republic of Kiribati

Brooke Campbell, Aurélie Delisle and Quentin Hanich

University of Wollongong

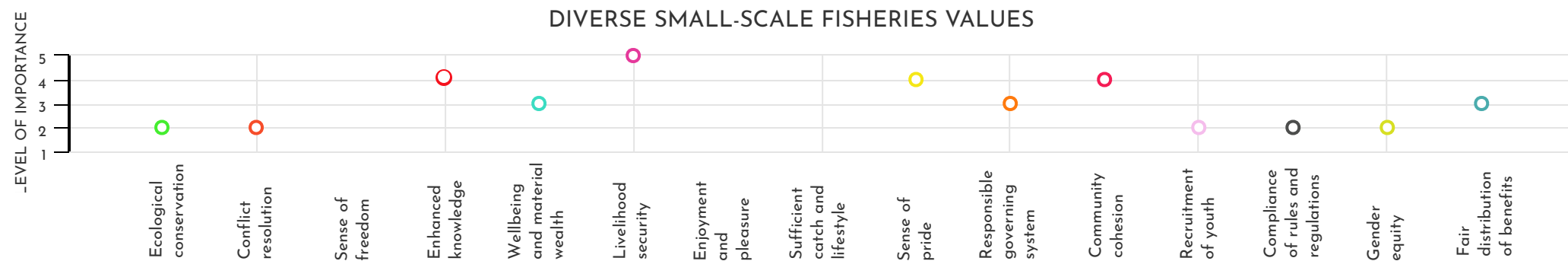
"A man and his family fish in Tarawa lagoon, Republic of Kiribati. The urban capital of South Tarawa and rural North Tarawa share the lagoon's fisheries for daily food and livelihoods. In a country of low-lying islands and limited land area, I-Kiribati people are at home in the ocean."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	cast net; gillnet; gleaning; other
Target species	Anadara clam; bonefish; snappers; silverbiddies; other
Vessel type	wooden outrigger canoe; wooden or aluminium boat <7m
Number of small-scale fishers	>7000
Number of small-scale fishing vessels	unknown



© Quentin Hanich





'A way of life': Laamu Atoll, Maldives

Juliette Tunstall & Alice Miller

International Pole & Line Foundation (IPNLF)

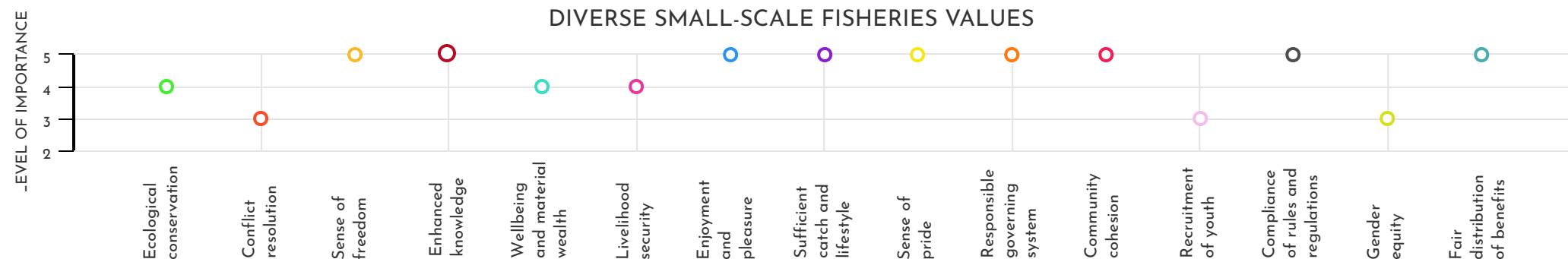
"Pole-and-line fishing is woven into the fabric of the Maldivian culture. These coastal communities have practiced this sustainable method for centuries; one hook, one line, one fish at a time. This is a way of life, upon which the fishers and the local communities depend."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; coastal
Main gear	hook and line
Target species	skipjack tuna
Vessel type	fiberglass/wooden; <30m
Number of small-scale fishers	~10/vessel
Number of small-scale fishing vessels	unknown



© IPNLF





'The daily tuna run': Fuvahmulah, Maldives

Juliette Tunstall & Alice Miller

International Pole & Line Foundation (IPNLF)

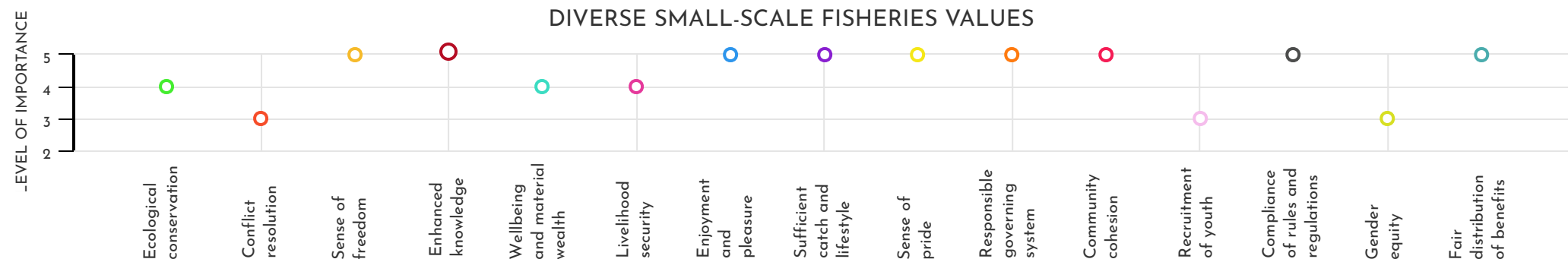
"The fishermen in the Fuvahmulah leave before dawn to reach rich fishing grounds south of the Maldivian island in the Indian Ocean. Day breaks to reveal over fifty *dhonis* fishing, using only hook and line to catch skipjack tuna by hand. By midday, the fishers return to harbour with their small holds full to sell their catch to markets waiting for them. This is the daily tuna run, upon which the fishers and the local communities depend."

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine; coastal
Main gear	hook and line
Target species	skipjack tuna; yellowfin tuna
Vessel type	wooden; <10m
Number of small-scale fishers	~3/vessel
Number of small-scale fishing vessels	unknown



© IPNLF





Artisanal fishing in Batan Estuary, Aklan Province, Philippines

Alice Joan Ferrer, L. Araneta, G. Defiesta, C. Parcon, H. J. Mediodia, J. Hopanda, S. Ishikawa

Division of Social Sciences, University of the Philippines; University of the Philippines Visayas Foundation, Inc.; Research Institute for Humanity and Nature

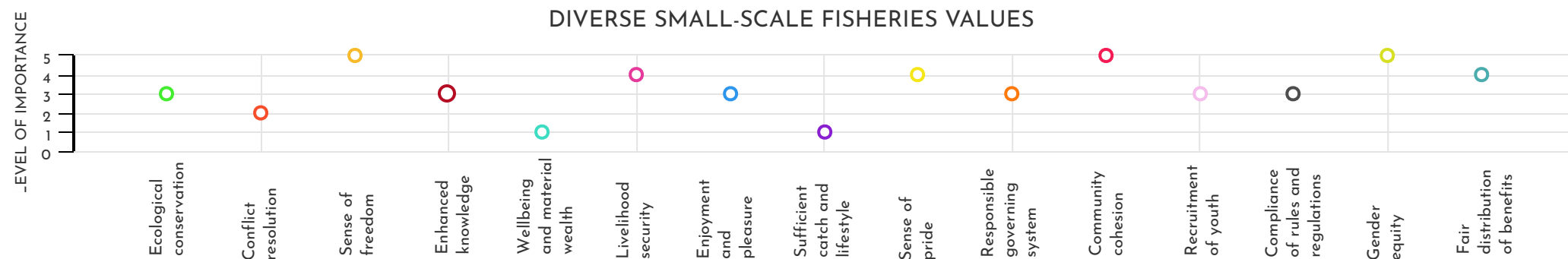
"Artisanal fishing in Batan Estuary in Aklan Province, Philippines contributes to nutrition, with fish as the main source of protein, and food security in the area. The two fishers on a non-motorized boat endure the heat of the sun using gillnet to catch fish providing food for their families."



© Alice J. Ferrer

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	freshwater; brackish
Main gear	castnet; gillnet; liftnet; traps; others
Target species	mudcrab; mullet; sardine; others
Vessel type	wooden; <3GRT; 4-6HP
Number of small-scale fishers	5371
Number of small-scale fishing vessels	1551





Freshwater fish sanctuaries, municipality of San Mariano, Philippines

Jan van der Ploeg

WorldFish and Mabuwaya Foundation

"Rural communities in the Philippines often depend heavily on freshwater fish as a source of food. However, the role of these small-scale fisheries in safeguarding the food security of poor households is usually undervalued. Further, freshwater ecosystems are severely threatened in the Philippines. In 2005, 13 barangays (villages) in the municipality of San Mariano proclaimed a fish sanctuary, which has played an important role in conserving critically endangered species."

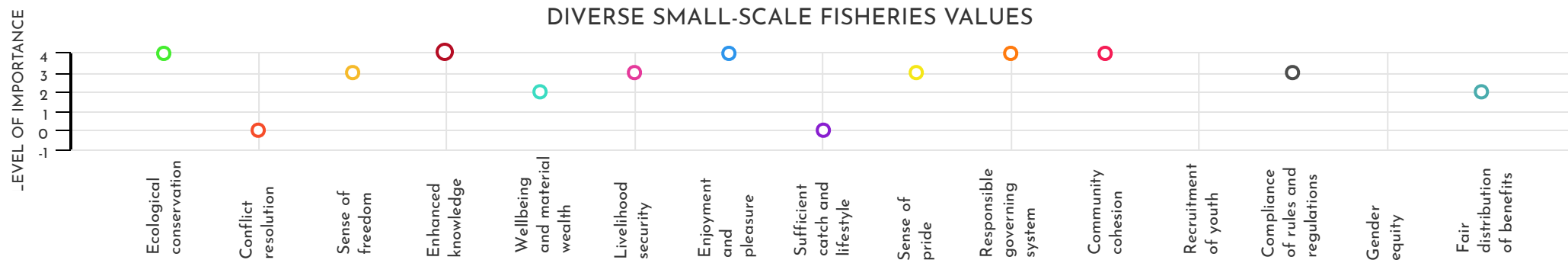
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	freshwater
Main gear	castnet; gillnet; liftnet; traps; others
Target species	Nile tilapia
Vessel type	no vessels
Number of small-scale fishers	5000
Number of small-scale fishing vessels	no vessels



© Jan van der Ploeg

DIVERSE SMALL-SCALE FISHERIES VALUES





PART IV

The meaning of small in
Africa



Sainte Luce lobster fishery, Madagascar

Stephen Long

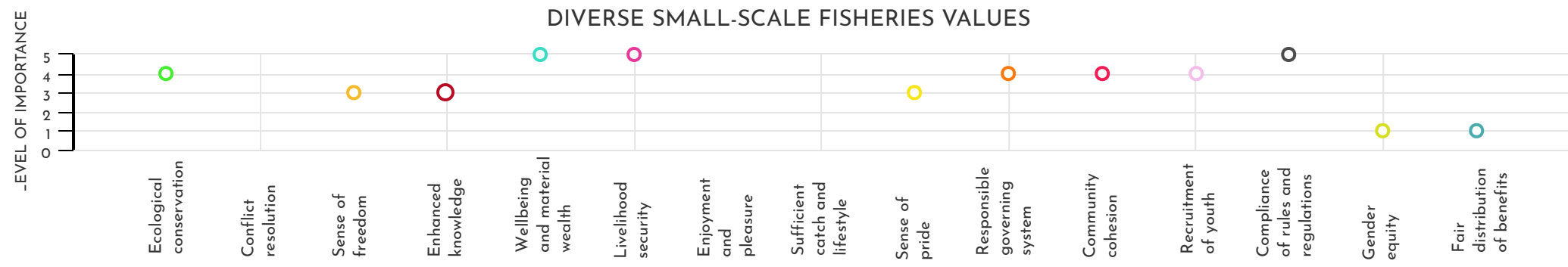
University College London and SEED Madagascar

"Fishermen in Sainte Luce prepare to depart in the half light of dawn. Paddling on round trips of up to 30km the fishers will check pots deployed overnight, set new pots and return with lobster to be sold to collectors on the beach, destined for global markets."



SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	traps
Target species	spiny lobster
Vessel type	wooden canoes (pirogues); no engine
Number of small-scale fishers	350
Number of small-scale fishing vessels	80





Zalala Beach small-scale fishery, Sofala Bank, Mozambique

Jessica Blythe

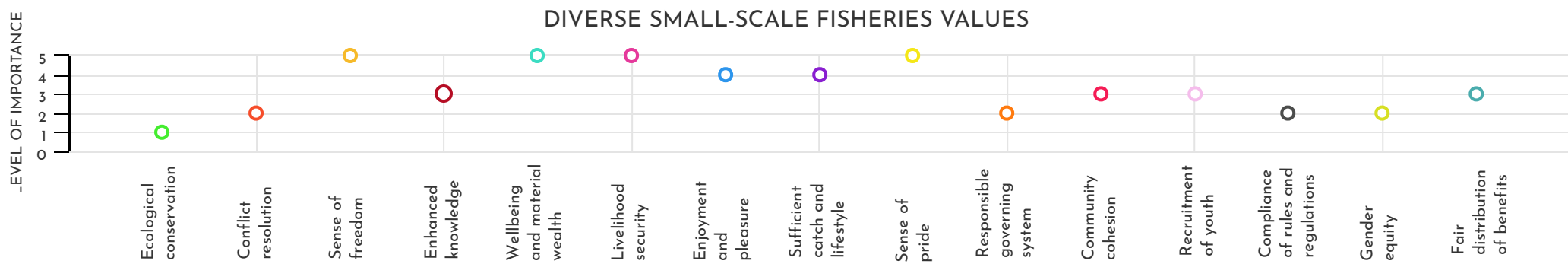
WorldFish & ARC Centre of Excellence for Coral Reef Studies, James Cook University

"Zalala Beach lies along the productive Sofala Bank on Mozambique's central coast. The small-scale fishery is characterized by high occupational pride. Fishers move from all over the country to fish at Zalala Beach, form the economic backbone of their community, and are widely respected for providing a 'good life' for their families. However, the fishery is challenged by declining catch, limited regulations, and conflict between local and migrant fishing crews."



© Jessica Blythe

SMALL-SCALE FISHERIES CHARACTERISTICS	
Ecosystem type	marine
Main gear	gillnet; seine net
Target species	small pelagics; tsivakihini paste shrimp
Vessel type	wooden boat <10m; paddle/sail
Number of small-scale fishers	~1000
Number of small-scale fishing vessels	405





Small-scale fisheries of Struisbaai, Western Cape, South Africa

Kashiefa Parker & Stuart du Plessis

International Ocean Institute - African Region

"Struisbaai fishers are one of the last remaining traditional line fishing communities in the country to utilize the colourful traditional wooden deckboats called 'chukkies'. Today their chukkies are a bittersweet struggle between tradition and modernity. Here fishers ceremoniously take pride in painting and restoring their boats during the off season."

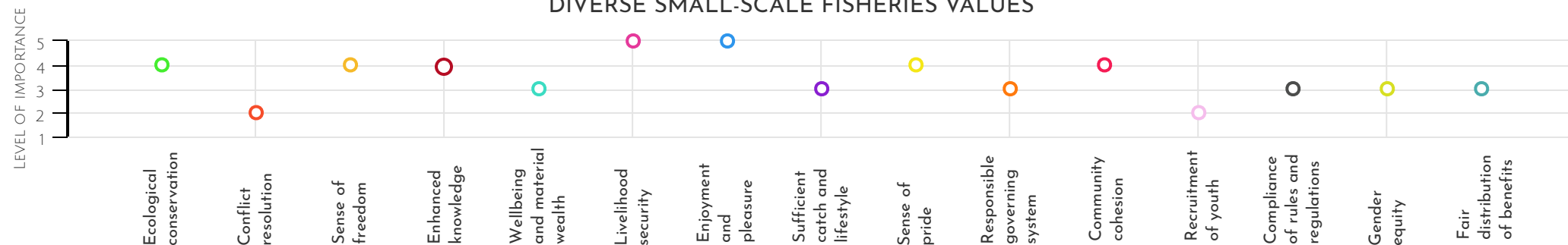


© Kashiefa Parker

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	hook and line
Target species	yellowtail; Cape salmon; kob; others
Vessel type	traditional wooden chukkie; ski-boat
Number of small-scale fishers	~57
Number of small-scale fishing vessels	10

DIVERSE SMALL-SCALE FISHERIES VALUES





Dagaa fishery in Busekera village, Lake Victoria, Tanzania

Joseph Luomba

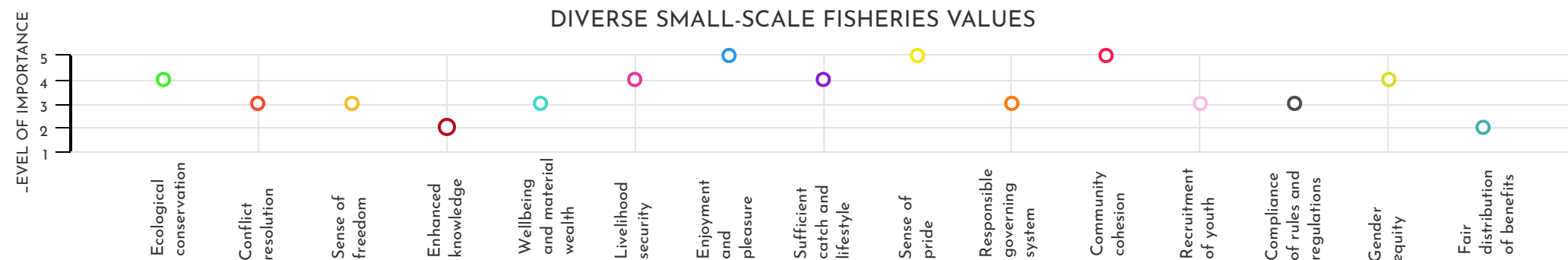
Tanzania Fisheries Research Institute (TAFIRI)

"Dagaa *Rastrineobola argentea* is the main fishery at Busekera village. The fishery is a major source of livelihood to the indigenous 'jita' tribe and immigrants that have settled in this village. Majority of those engaged in the fishery are women with some either divorced or widowed. In addition, many businesses within the village depends on the dagaa fishery."



SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	freshwater
Main gear	small-seine
Target species	dagaa
Vessel type	wooden canoes; <12m
Number of small-scale fishers	474
Number of small-scale fishing vessels	104





PART V

The meaning of small in
Europe



Small-scale fisheries of Merikarvia, Finland

Pekka Salmi

Natural Resources Institute Finland

"The Finnish coastal fishery is small-scale and family-based activity. Although the economic significance of commercial fisheries has generally decreased, the fishing livelihood is still highly valued in traditional fishing villages such as Merikarvia. The couple Seppo and Katja Laine, process their Baltic herring catches into smoked, salted and marinated herring products. They sell these added-value artisanal products directly to consumers in autumn during numerous fish marketing events arranged in larger cities."

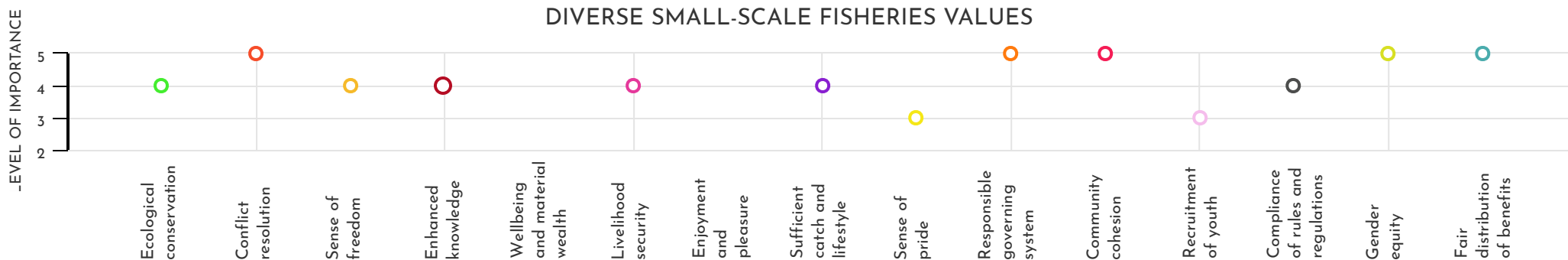
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	brackish
Main gear	gillnet; traps
Target species	Baltic herring/salmon; whitefish; perch
Vessel type	fiberglass boats; <8m; 40-50HP
Number of small-scale fishers	35
Number of small-scale fishing vessels	70



© Pekka Salmi

DIVERSE SMALL-SCALE FISHERIES VALUES





Small-scale fishery of Skala Kallonis, Kalloni Bay, Lesvos, Greece

Eirini Ioanna Vlachopoulou & Seishiro Sakita

University of the Aegean; Nagoya University

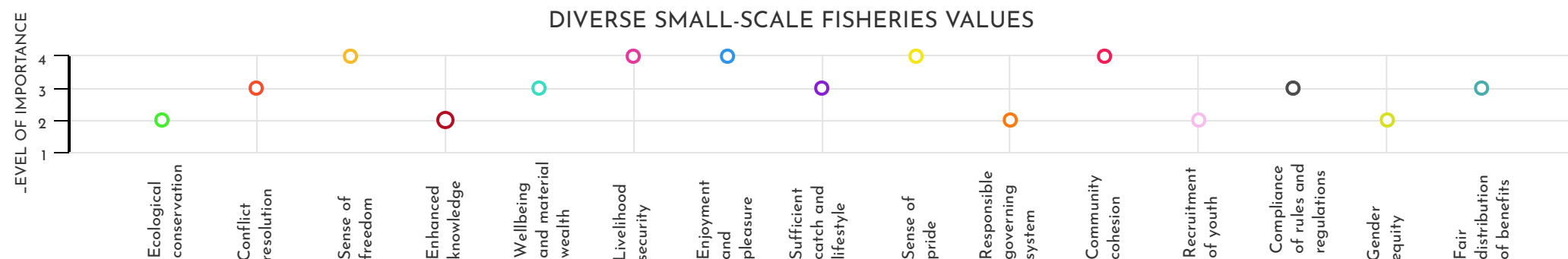
"Countless generations of small-scale fishers, passing down their knowledge and passion, have kept the fire of the Greek maritime tradition alive through the millennia and have given life to a focal point of the Greek culture: its connection to the sea. On their handmade boat, Sotiris and his brother keep the traditions alive to this day."



© Seishiro Sakita

SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	dredge; cast net; gillnet; longlines
Target species	sardine; mullet; mullus; scallop; mussel
Vessel type	wooden boat; <9m
Number of small-scale fishers	132
Number of small-scale fishing vessels	66





Artisanal fishing community, Azores, Portugal

Alison Neilson & Rita São Marcos

Centre for Social Studies, University of Coimbra

"Artisanal fishing occurs in all nine of the Azorean Islands, Portugal, located in the mid-Atlantic Ocean. Differences exist between the islands related to the role of women in fishing; from financial management of the boats to preparing the gear or even going to sea. Associations such as Ilhas em Rede, with members from all nine islands, and AMPA - Association of Wives of Fishers and Boat Owners of Terceira Island, work to understand and improve the role and visibility of women in fishing."

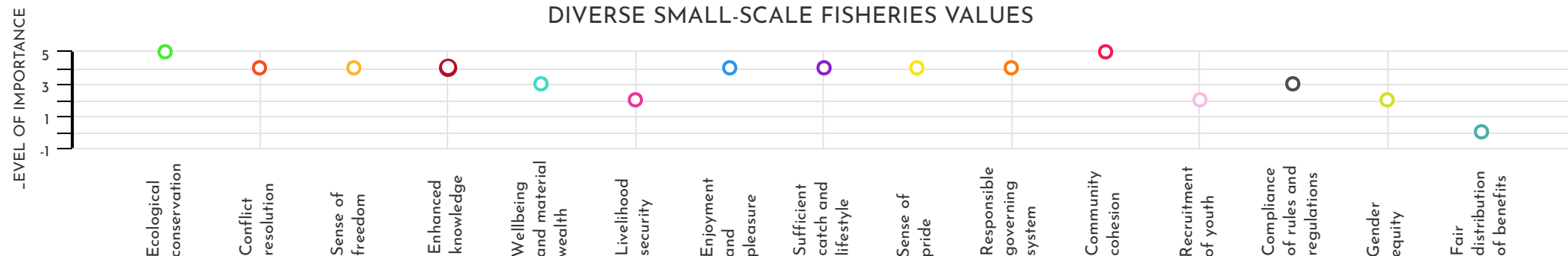
SMALL-SCALE FISHERIES CHARACTERISTICS

Ecosystem type	marine
Main gear	hook and line; traps; 'gamelas'
Target species	tuna; red seabream
Vessel type	fiberglass; 7m
Number of small-scale fishers	3222
Number of small-scale fishing vessels	599



© Alison Neilson

DIVERSE SMALL-SCALE FISHERIES VALUES





Small-scale fisheries of Cabo de Palos, Islas Hormigas MPA, Spain

Miguel Lorenzi

Memorial University of Newfoundland

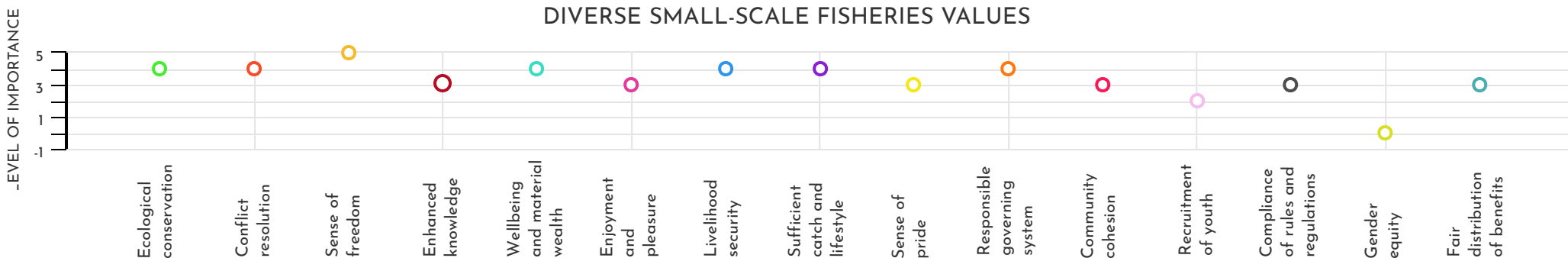
"Artisanal fishers have been working on the coastlines of the Spanish Mediterranean Sea for thousands of years. Traditionally a family business, these men and women have shaped our coasts and created our traditions. Julio's grandfather was a fisherman and one of the pioneers of the village of Cabo de Palos, south Spain. He built the Virgen del Carmen, a 5m long wooden boat in 1909 and since then, it is the way of life of three family generations."

SMALL-SCALE FISHERIES CHARACTERISTICS

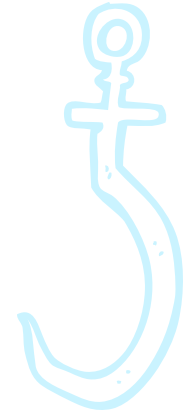
Ecosystem type	marine; coastal
Main gear	gillnet; bottom longline; traps
Target species	red mullet; grouper
Vessel type	fiberglass/wooden <15m
Number of small-scale fishers	20
Number of small-scale fishing vessels	8



© Miguel Lorenzi



An initial step in understanding the range and significance of small-scale fisheries values in relative terms at a global scale



Small-scale fisheries contribute to society in many ways, including income, food security, sense of place, and ecological knowledge. This is a value proposition that deserves explicit recognition and consideration. TBTI is working towards a more comprehensive understanding of the diverse values of small-scale fisheries, especially through its research cluster 'Diverse Small-Scale Fisheries Values' coordinated by Derek Johnson, Alan White, Julian Idrobo, and TBTI project director Ratana Chuenpagdee. The 'Diverse Values' cluster fosters critical reflections on the reasons for which small-scale fisheries are either valued or overlooked. The cluster creates the space to build theoretically and methodologically sound, policy-relevant arguments for the values

of small-scale fisheries at multiple scales and in diverse places while also recognizing the significant challenges they face. This photo e-book, and the larger study on diverse small-scale fisheries values it derives from, represents an initial step in understanding their range and significance in relative terms at a global scale. The photo e-book speaks to the question about the reasons why small-scale fisheries are valued and illustrates the types of contributions they make across the globe. Each chapter shows the breadth of values attributed to the small-scale fisheries in a location, reinforcing the importance of small-scale fisheries to millions of people who directly and indirectly depend on them.

Small-scale fisheries are not only 'too big to ignore,' but are also 'too important to fail'

Through this photo e-book, the 32 case studies portray both the commonalities and differences in what small-scale fisheries mean from place to place. This is a simple message that emphasizes the need for more effort in highlighting the value of small-scale fisheries, especially through an in-depth exploration of what these values mean and how they contribute to fisheries resource governance and to societal well-being. It is the diversity and richness of the small-scale fisheries values that invite researchers, practitioners, policy makers and fishers to work together on improving their governance. 'The Meaning of Small' shows that small-scale fisheries are not only 'too big to ignore,' but are also 'too important to fail.'



For more, visit:

WWW.TOOBIGTOIGNORE.NET



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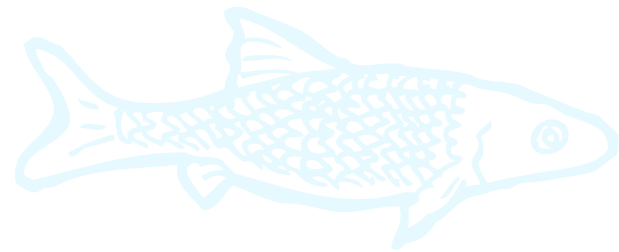
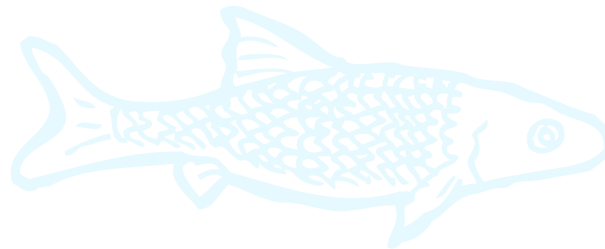
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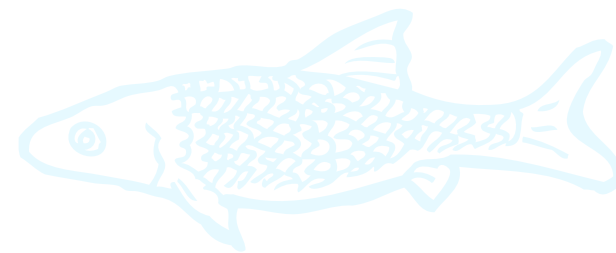
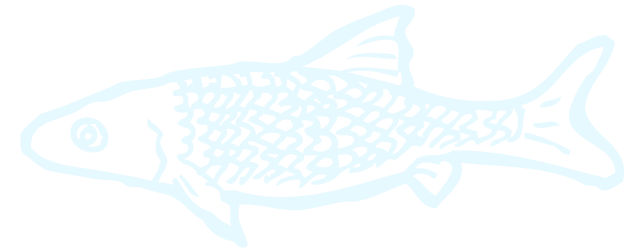
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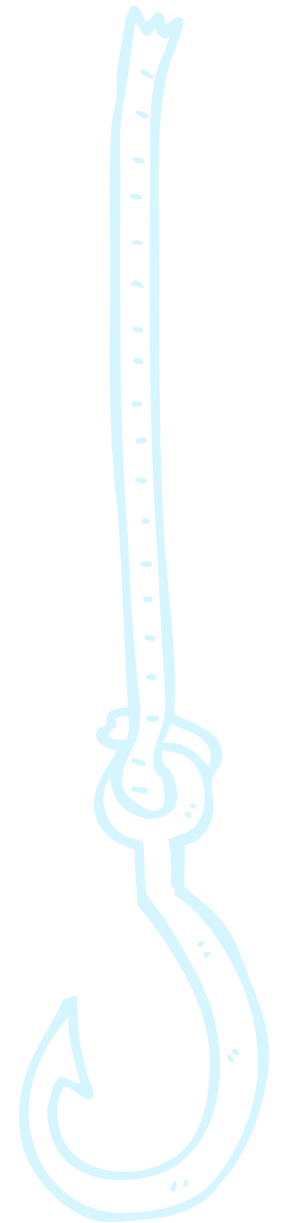


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