



2025

CAPACITY INDEX OF SUSTAINABLE COASTAL DEVELOPMENT

FOR COUNTRIES ALONG
THE MARITIME SILK ROAD

Capacity Index of Sustainable Coastal Development for Countries Along the Maritime Silk Road

China Oceanic Development Foundation

Fujian Institute for Sustainable Oceans (Xiamen University)

September 2025

TECHNICAL SUPPORT

Sustainable Coastal Development Capacity-Building Research Lab

ADVISORY BOARD

DAI Minhan

Academician, Chinese Academy of Sciences

Chair Professor, Xiamen University

PAN Xinchun

Vice Chairman and Secretary-General, China Oceanic Development Foundation

LU Yonglong

Chair Professor, Xiamen University

GUAN Dabo

Distinguished Professor, Tsinghua University

EXPERT GROUP

XUE Xiongzhi, Chief Scientist of this research

Dean, Fujian Institute for Sustainable Oceans (Xiamen University)

Professor, College of the Environment and Ecology, Xiamen University

LIN Tao

Research Fellow, Institute of Urban Environment, Chinese Academy of Sciences

HUANG Jinliang

Professor, College of the Environment and Ecology, Xiamen University

ZHANG Zengkai

Professor, College of the Environment and Ecology, Xiamen University

LI Yangfan

Professor, College of the Environment and Ecology, Xiamen University

CHEN Nengwang

Professor, College of the Environment and Ecology, Xiamen University

LIU Chao

Associate Research Fellow, First Institute of Oceanography (FIO), Ministry of Natural Resources, P. R. China

ZHANG Caiyun

Associate Professor, College of Ocean and Earth Sciences, Xiamen University

ZHU Xudong

Professor, College of the Environment and Ecology, Xiamen University

EDITING TEAM (Composed of members of the project team)

Team Leader

FU Yiqiu

Team Members

HUANG Xinze, LIU Xiaoxiang, YU Han, ZHENG Yunkai, ZHANG Junmao, GAO Shuyao, LI Wenjie, ZHAO Xinying, XIE Jiaheng, LI Lingling, LIU Honghua, LI Zheng

Translator

LUO Shuyu

Table of Contents

Foreword	1
1. About the Capacity Index of Sustainable Coastal Development for Countries Along the Maritime Silk Road	5
2. Results of the Capacity Assessment on Sustainable Coastal Development for Countries Along the Maritime Silk Road	8
2.1 Overall Scores and Rankings	8
2.2 Scores and Rankings by Theme.....	12
2.3 Subtheme Scores	16

Foreword

The Silk Road Economic Belt and the 21st Century Maritime Silk Road (hereinafter referred to as MSR) initiatives were proposed by the Chinese President Xi Jinping during his visits to Central and Southeast Asian countries in 2013. These ideas soon gained worldwide attention. In 2015, the Chinese government issued the *Vision and Actions on Jointly Building Silk Road Economic Belt and 21st Century Maritime Silk Road*, which stated an outlook of strengthened maritime cooperation among countries along the MSR through the construction of three blue economic passages (i.e., China–Indian Ocean–Africa–Mediterranean Sea, China–Oceania–South Pacific, and China–Arctic Ocean–Europe) underpinned by the Chinese coastal economic belt. The *Vision for Maritime Cooperation under the Belt and Road Initiative* jointly released by the National Development and Reform Commission (NDRC) and the then State Oceanic Administration (SOA) in 2017 displayed China’s dedication in building an open and inclusive cooperation platform, establishing constructive blue partnerships, and forging a “blue engine” for sustainable development.

Over a decade into the MSR Initiative, China has been strengthening ties with countries along the MSR in realms of ocean, science and technology, environmental protection, ports and so much more; it has also been advancing cooperation mechanisms. In 2022, the NDRC and several departments jointly released a policy document to facilitate green development in countries involved in the Belt and Road Initiative (hereinafter referred to as BRI). The document called for the construction of supporting systems for green development and the expansion of robust big data service platforms dedicated to ecological and environmental

protection. This will promote the seamless sharing of crucial information regarding ecology, environment, and climate change, while also fostering enhanced technical cooperation. Under the background, the MSR Initiative aims to promote the well-being of both the people and the ocean through international cooperation. As part of the endeavors to achieve the *2030 Agenda for Sustainable Development* goals targeting the field of ocean, it focuses on multiple priorities, including safeguarding marine ecosystems and biodiversity, surveying and evaluating coastal areas, monitoring ocean and coastal blue carbon ecosystems, eliminating poverty, promoting blue economic development, protecting maritime security, advancing research on marine technologies, and fostering stronger blue partnerships. The MSR Initiative encompasses three dimensions of sustainable development: environment, society, and economy. For countries along the MSR, it provides actionable solutions for their economic challenges and for achieving the 2030 Agenda, as well as a roadmap for ocean and coastal development while supporting overall sustainable development.

However, the vast majority of countries along the MSR are developing countries and emerging economies, whose coastal zones are generally confronted with environmental pollution and ecological degradation caused by industrialization and urbanization. In addition, the growth of shipping volumes, port construction, and other maritime activities may have negative impacts on marine ecosystems, critical habitats and species, thereby threatening regional ocean health and ecological security. Given these challenges, it is of great significance to assess the sustainable coastal development capacity in countries along the MSR. Such an assessment will help to reveal the state of sustainable development in the coastal zones of these countries, identify their strengths and challenges

in the social, economic, and environmental dimensions. It will also provide scientific evidence for extended cooperation and exchange between China and these countries and inform decision making for sustainable development policies. These efforts should further contribute to blue partnerships and provide the foundations for a maritime community with a shared future.

The reference year of the 2025 Capacity Index of Sustainable Coastal Development for Countries Along the Maritime Silk Road (hereinafter referred to as CISCDC) is 2023. To ensure the scientific validity, reliability, and practical feasibility of indicator data acquisition, the scope of coastal zone for data selection is defined as 100km both landward and seaward from the coastline (excluding the indicators based on publicly available statistical data; for countries with a landward extent of less than 100km, the entire country is used as the scope instead). The English edition of this research comprises two sections: the first section provides an overview of the CISCDC, while the second section analyzes the results of the capacity assessments and provides conclusions. This 2025 edition builds on the comprehensive, integrated, and systematic evaluation framework of the 2024 edition, with further enhancements in accuracy and timeliness. With the addition of Ghana, this edition brings the total number of assessed countries to 50 and maintains the currency of the data. Readers are encouraged to go beyond the overall rankings and focus on the performances and development tracks of the countries at theme, subtheme, and indicator levels.

This edition builds upon the comprehensive assessment system for sustainable coastal development and further enhances the representation of its connotations. Nevertheless, the current study still has limitations and remains to be further strengthened before it can serve as a solid

scientific basis for marine-related decision-making in the countries concerned. Going forward, we will continue to deepen our research efforts, with the aim of producing more authoritative and professional periodic reports. We sincerely invite experts and scholars in this field to engage in discussion and provide constructive comments and suggestions.

1. About the Capacity Index of Sustainable Coastal Development for Countries Along the Maritime Silk Road

This research amalgamates and presents current data on the sustainable coastal development capacity of the countries along the MSR. For the indicator system, we selected 7 themes (atmosphere, land, ocean, freshwater, biodiversity, social development, and economic development), 19 subthemes, and 35 indicators (Table 1). The indicators were hierarchically aggregated into the composite index, CISCDC, with the resulting scores and rankings reflecting the relative sustainable coastal development capacity of each country.

The CISCDC provides a comprehensive overview and assessment of the status of sustainable coastal development capacity in these countries. Scores for each theme and subtheme were calculated and aggregated to derive the overall assessment results. Scores from different themes, subthemes, and indicators reveal the strengths and areas requiring improvement for sustainable coastal development. The overall index scores, along with the theme-, subtheme-, and indicator-level scores, place countries on a sustainability scale ranging from 10 (lowest) to 95 (highest). The composite index is aggregated at indicator, subtheme, and theme levels. Therefore, we encourage professionals and decision makers to go beyond composite indices and rankings and focus on the performance of each country at the theme, subtheme, and indicator levels.

Table 1 | The indicator system for the capacity assessment of sustainable coastal development in countries along the MSR

THEME	SUBTHEME	CORE INDICATOR
Atmosphere	Greenhouse Gas	Regional CO ₂ emissions
		CO ₂ emissions per capita
	Air Quality	PM2.5 concentration
		Regional SO ₂ emissions
Land	Agriculture	Fertilizer usage
		Sustainable nitrogen management index (SNMI)
	Land Use	Land use intensity
		Coastal landscape index
Vegetative Cover	Normalized difference vegetation index	
Ocean	Fisheries	Seafood supply
		Artisanal fishing opportunities
		Proportion of overfishing
	Marine Environment	Clean waters
		Coastal wastes
	Natural Hazards	Coastal protection
Natural hazard risk exposure		
Freshwater	Water Quantity	Proportion of freshwater area to coastal land area
		Underground water storage
		Water use intensity
	Water Quality	Health risks caused by drinking water
Biodiversity	Species	Red list index
		Marine trophic index
	Ecosystem	Proportion of marine protected area to coastal area
		Proportion of land protected area to coastal land area
		Proportion of coastal wetland area to coastal land area
Marine net primary production		
Social	Population Level	Coastal population density

Development	Level of Infrastructure Development	Road network density
	Income Equality	Gini coefficient
		Unemployment, total (% of total labor force)
	Standard of Living	Average life expectancy
		Engel coefficient
Gender Equality	Women business and the law index	
Economic Development	Economic Performance	Coastal GDP per capita
	Economic Structure	Proportion of marine economy

The indicator system combines the characteristics of each country with their coastal features to provide a comprehensive analysis of national and regional concerns. These concerns are highly relevant to sustainable coastal development and encompass the three pillars of sustainability - social, economic, and environmental, aiming to reflect sustainable development goals and basic human needs.

2. Results of the Capacity Assessment on Sustainable Coastal Development for Countries Along the Maritime Silk Road

2.1 Overall Scores and Rankings

The overall scores and rankings of the capacity index of sustainable coastal development for the countries along the MSR are provided in Figure 1 (for detailed indicator scores, see Table 3).

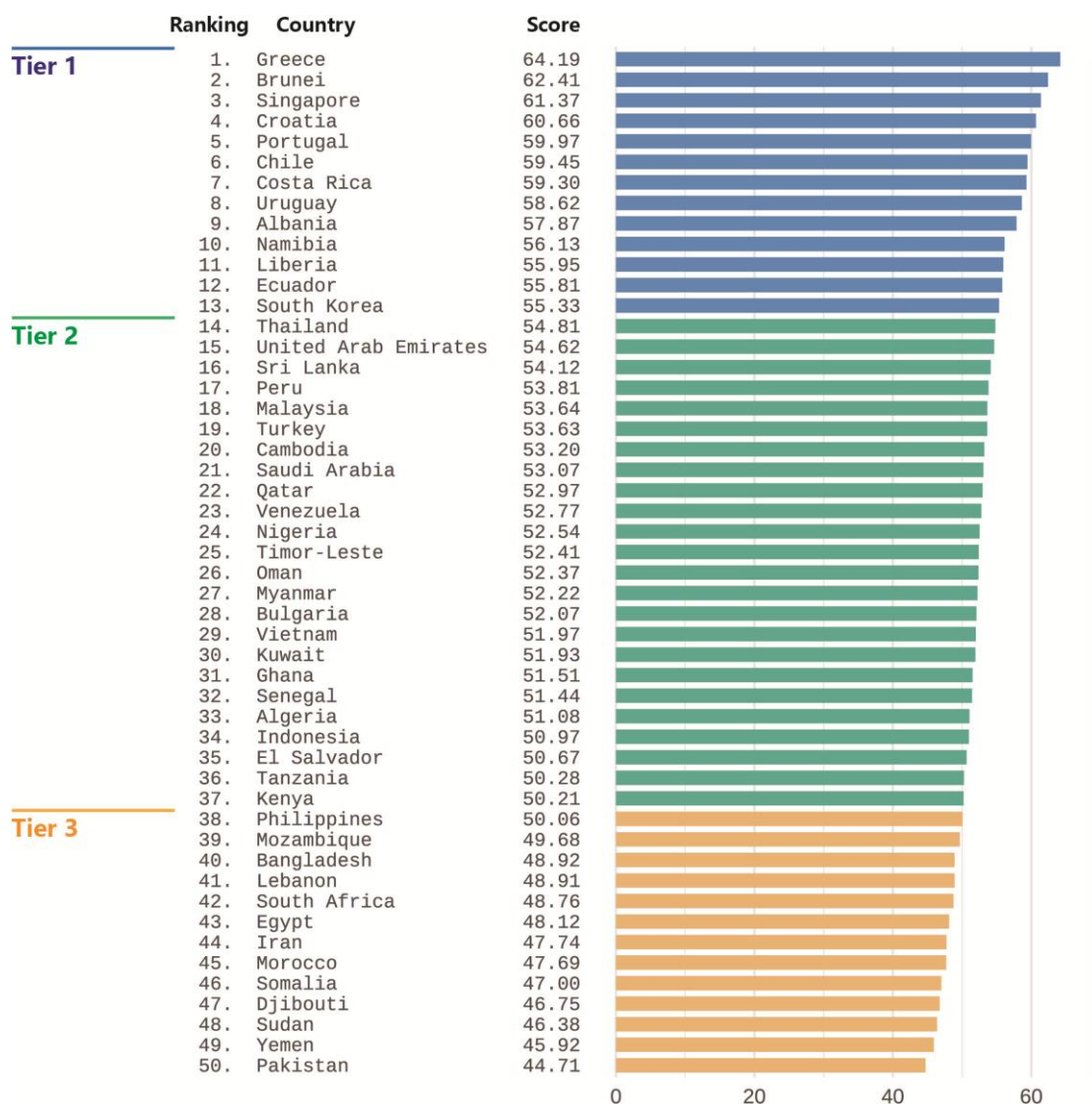


Figure 1 | Overall scores and rankings of the capacity index of sustainable coastal development for countries along the MSR

(Note: Based on the score distribution, the top 25% of countries are classified as Tier 1, the middle 50% as Tier 2, and the bottom 25% as Tier 3.)

The results reveal that the average sustainable coastal development capacity index score of the countries along the MSR is 52.92. More than half of the countries score below average, indicating that much remains to be done to enhance these countries' capacity for sustainable coastal development. Greece obtains the highest overall score, 64.19, while Pakistan has the lowest score, 44.71. The top five countries in the comprehensive ranking, in descending order, are Greece (64.19), Brunei (62.41), Singapore (61.37), Croatia (60.66), and Portugal (59.97). The five lowest-ranked countries are, in order, Somalia (47.00), Djibouti (46.75), Sudan (46.38), Yemen (45.92), and Pakistan (44.71). The geographical distribution of the countries along the MSR by their overall scores is shown in Figure 2.

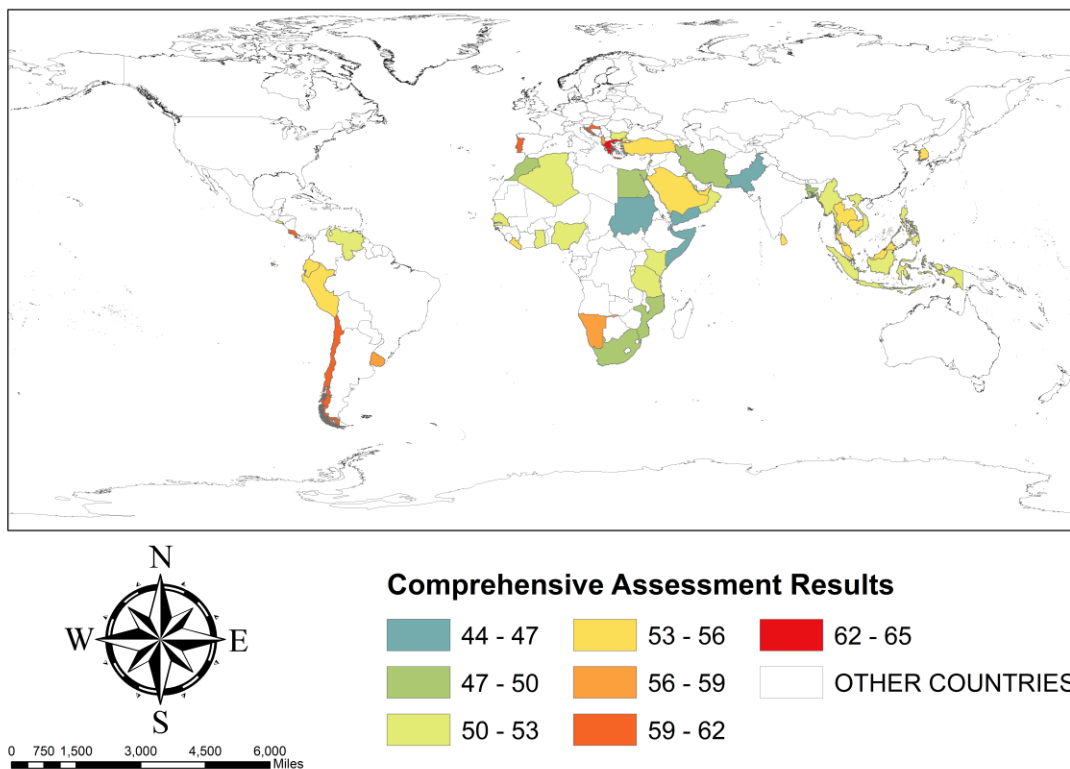


Figure 2 | Geographical distribution of the countries with their overall score

Based on the comprehensive ranking and theme scores of each country's sustainable coastal development capacity, a chart illustrating the theme scores of the Tier 1 countries was prepared to further clarify the strengths

and weaknesses of each country's coastal sustainability (Figure 3 & Table 2).

Greece's coastal development is primarily driven by its strengths in Economic Development (90.85, 1st), Freshwater (71.19, 2nd), and Social Development (72.80, 4th). However, it performs less favorably in Atmosphere (50.99, 35th). Brunei, ranking 2nd overall, excels in Land (74.97, 2nd) and Economic Development (86.17, 2nd), while its weaker areas are Social Development (55.83, 35th) and Atmosphere (54.00, 30th). Singapore's strengths lie in Social Development (86.94, 1st), Freshwater (76.27, 1st), and Economic Development (81.97, 3rd), while its weakest themes are Atmosphere (32.43, 47th) and Land (43.62, 44th). Croatia performs well in Ocean (75.84, 4th) and Freshwater (62.95, 6th), but underperforms in Atmosphere (54.58, 29th). Portugal's strengths are in Social Development (76.34, 3rd) and Freshwater (69.05, 4th), while its weaker themes are Economic Development (48.29, 32nd) and Atmosphere (54.75, 27th). Chile's advantages are in Freshwater (70.08, 3rd) and Biodiversity (45.96, 7th), while its weaknesses are in Ocean (63.46, 33rd) and Social Development (58.56, 29th). Costa Rica stands out in Biodiversity (47.36, 5th) and Atmosphere (70.47, 8th), but scores lower in Freshwater (48.60, 22nd). Uruguay's strengths are in Biodiversity (46.31, 6th), Freshwater (56.88, 8th), and Ocean (71.54, 8th), while its weaker areas are Land (49.66, 31st) and Economic Development (53.03, 27th). Albania excels in Biodiversity (53.45, 3rd) but is weaker in Economic Development (50.93, 31st). Namibia's strengths are in Biodiversity (56.63, 2nd) and Economic Development (75.44, 4th), while its weaknesses are in Social Development (28.42, 50th) and Freshwater (30.50, 45th). Liberia's strengths are in Land (78.65, 1st) and Atmosphere (72.99, 7th), while its weakest areas are Freshwater (28.34, 47th) and Social Development (51.18,

41st). Ecuador performs well in Freshwater (54.84, 11th) and Social Development (64.92, 12th), but underperforms in Biodiversity (29.23, 42nd). Korea's strengths lie in Social Development (77.84, 2nd), Freshwater (67.19, 5th), and Economic Development (65.07, 10th), while its weaknesses are Atmosphere (35.78, 45th) and Land (42.25, 47th).

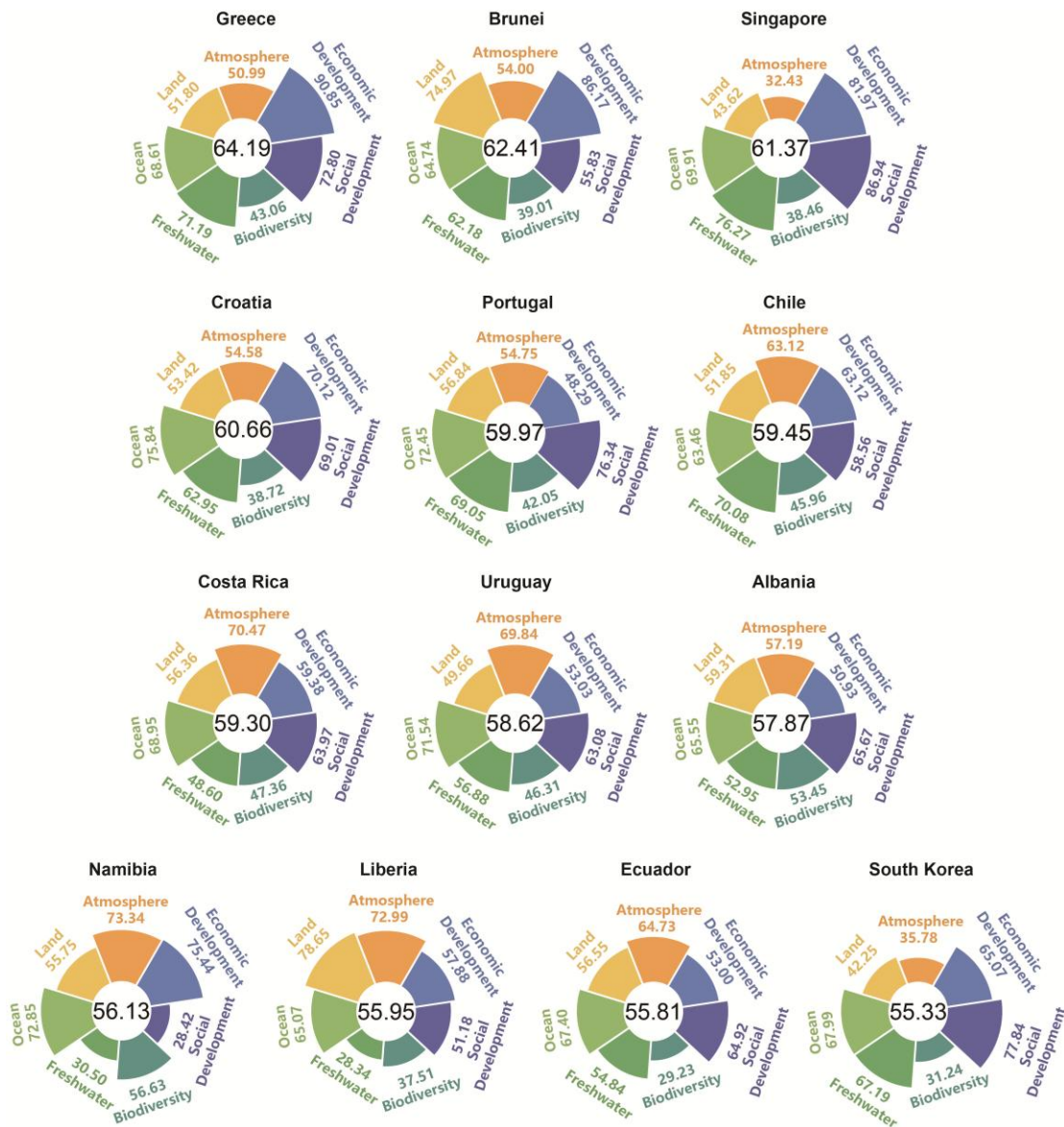


Figure 3 | Performance graph by theme for the Tier 1 countries

2.2 Scores and Rankings by Theme

The scores and rankings by theme in the capacity assessment of sustainable coastal development for countries along the MSR are listed in Table 2 (for detailed indicator scores, see Table 3).

Table 2 | Sustainable coastal development capacity scores and rankings by theme for countries along the MSR

COUNTRY	ATMOSPHERE	RANKING	LAND	RANKING	OCEAN	RANKING	FRESHWATER	RANKING	BIODIVERSITY	RANKING	SOCIAL DEVELOPMENT	RANKING	ECONOMIC DEVELOPMENT	RANKING
Greece	50.99	35	51.80	26	68.61	13	71.19	2	43.06	9	72.80	4	90.85	1
Brunei	54.00	30	74.97	2	64.74	31	62.18	7	39.01	19	55.83	35	86.17	2
Singapore	32.43	47	43.62	44	69.91	10	76.27	1	38.46	24	86.94	1	81.97	3
Croatia	54.58	29	53.42	22	75.84	4	62.95	6	38.72	20	69.01	8	70.12	7
Portugal	54.75	27	56.84	15	72.45	7	69.05	4	42.05	12	76.34	3	48.29	32
Chile	63.12	16	51.85	25	63.46	33	70.08	3	45.96	7	58.56	29	63.12	13
Costa Rica	70.47	8	56.36	17	68.95	12	48.60	22	47.36	5	63.97	15	59.38	17
Uruguay	69.84	9	49.66	31	71.54	8	56.88	8	46.31	6	63.08	18	53.03	27
Albania	57.19	24	59.31	12	65.55	27	52.95	13	53.45	3	65.67	11	50.93	31
Namibia	73.34	6	55.75	20	72.85	6	30.50	45	56.63	2	28.42	50	75.44	4
Liberia	72.99	7	78.65	1	65.07	29	28.34	47	37.51	27	51.18	41	57.88	19
Ecuador	64.73	13	56.55	16	67.40	19	54.84	11	29.23	42	64.92	12	53.00	28
South Korea	35.78	45	42.25	47	67.99	17	67.19	5	31.24	39	77.84	2	65.07	10

Thailand	50.05	38	53.95	21	65.98	24	49.06	21	35.51	32	69.07	7	60.04	15
United Arab Emirates	32.39	48	46.70	39	79.83	3	54.16	12	38.54	21	72.47	5	58.29	18
Sri Lanka	64.59	14	49.63	32	66.89	20	46.13	26	22.89	49	63.35	17	65.39	9
Peru	66.15	10	49.07	34	60.16	38	46.36	25	38.49	23	61.75	20	54.71	23
Malaysia	54.73	28	55.82	19	69.03	11	50.64	18	28.98	43	56.67	34	59.62	16
Turkey	51.96	34	50.85	30	66.25	23	51.96	15	36.71	28	64.46	14	53.21	25
Cambodia	62.55	17	60.54	9	65.00	30	38.73	35	38.46	25	60.59	26	46.53	36
Saudi Arabia	34.71	46	51.06	29	66.40	22	51.76	17	40.50	16	61.24	22	65.84	8
Qatar	22.67	49	47.66	37	80.52	2	56.34	9	37.98	26	60.62	25	64.98	11
Venezuela	60.18	22	67.42	5	68.10	15	44.35	27	40.01	18	54.41	37	34.90	47
Nigeria	53.53	31	61.51	7	64.53	32	31.39	43	48.89	4	60.57	27	47.33	34
Timor-Leste	76.55	4	70.42	3	68.07	16	25.24	49	33.46	36	61.06	24	32.07	49
Oman	40.03	43	39.73	48	73.73	5	50.25	19	40.85	14	46.89	44	75.13	5
Myanmar	61.70	19	59.03	13	67.98	18	40.74	34	35.46	33	53.09	40	47.56	33
Bulgaria	52.04	33	46.79	38	50.86	49	51.82	16	44.99	8	64.75	13	53.21	26
Vietnam	48.21	39	48.56	35	55.51	46	55.47	10	24.82	47	69.31	6	61.90	14
Kuwait	16.00	50	36.38	50	81.46	1	52.57	14	42.03	13	61.18	23	73.89	6
Ghana	56.12	26	60.63	8	57.71	42	32.12	42	32.95	37	57.48	32	63.55	12
Senegal	56.48	25	49.51	33	62.50	34	32.68	40	57.60	1	63.37	16	37.93	44
Algeria	53.03	32	47.69	36	66.76	21	47.29	24	38.52	22	59.97	28	44.26	38

Indonesia	60.75	21	59.65	10	55.76	45	41.56	31	27.09	45	54.66	36	57.33	22
El Salvador	59.47	23	52.60	24	46.19	50	43.29	29	34.34	35	67.42	9	51.35	30
Tanzania	78.87	3	59.51	11	61.08	36	29.23	46	22.27	50	61.63	21	39.34	43
Kenya	73.69	5	57.03	14	68.31	14	27.64	48	26.01	46	53.45	39	45.32	37
Philippines	64.94	12	52.76	23	55.25	47	43.44	28	24.32	48	66.03	10	43.69	39
Mozambique	82.29	2	65.02	6	56.06	43	32.20	41	28.95	44	48.21	43	35.01	46
Bangladesh	44.28	42	43.12	45	59.72	39	48.43	23	36.45	30	57.73	31	52.68	29
Lebanon	45.04	41	42.66	46	52.83	48	41.16	32	40.32	17	62.66	19	57.68	20
South Africa	64.03	15	55.94	18	57.89	41	33.19	38	40.65	15	49.12	42	40.49	40
Egypt	47.20	40	38.07	49	60.65	37	40.79	33	42.41	11	53.52	38	54.23	24
Iran	39.05	44	45.96	41	65.64	25	50.24	20	30.46	40	45.31	45	57.52	21
Morocco	50.84	36	45.99	40	61.40	35	42.59	30	34.49	34	58.34	30	40.22	41
Somalia	84.40	1	68.88	4	65.39	28	19.21	50	36.25	31	36.84	48	18.02	50
Djibouti	62.28	18	44.07	42	70.70	9	32.85	39	29.25	41	41.54	46	46.53	35
Sudan	65.57	11	51.39	28	58.97	40	30.88	44	42.63	10	37.27	47	37.93	45
Yemen	61.18	20	51.47	27	65.59	26	35.52	36	31.73	38	35.96	49	40.01	42
Pakistan	50.75	37	43.97	43	55.78	44	34.65	37	36.57	29	56.98	33	34.24	48

2.3 Subtheme Scores

The subtheme scores for the capacity assessment of sustainable coastal development in countries along the MSR are provided in Table 3.

Table 3 | Sustainable coastal development capacity scores by subthemes for countries along the MSR

COUNTRY	ATMOSPHERE		LAND			OCEAN			FRESHWATER		BIODIVERSITY		SOCIAL DEVELOPMENT					ECONOMIC DEVELOPMENT	
	GREENHOUSE GAS	AIR QUALITY	AGRICULTURE	LAND USE	VEGETATIVE COVER	FISHERIES	MARINE ENVIRONMENT	NATURAL HAZARDS	WATER QUANTITY	WATER QUALITY	SPECIES	ECOSYSTEM	POPULATION LEVEL	LEVEL OF INFRASTRUCTURE DEVELOPMENT	INCOME EQUALITY	STANDARD OF LIVING	GENDER EQUALITY	ECONOMIC PERFORMANCE	ECONOMIC STRUCTURE
Greece	48.09	53.90	36.50	52.77	66.12	69.32	54.55	81.95	47.37	95.00	64.94	21.18	47.09	64.91	72.91	84.06	95.00	86.71	95.00
Brunei	36.19	71.80	65.39	64.51	95.00	51.15	62.50	80.57	43.58	80.78	53.69	24.33	41.54	45.19	81.56	70.34	40.51	90.03	82.31
Singapore	24.41	40.45	46.88	18.57	65.40	75.99	57.11	76.63	61.09	91.45	58.06	18.87	95.00	95.00	75.03	95.00	74.66	90.23	73.70
Croatia	48.84	60.32	29.62	58.54	72.11	73.47	79.95	74.11	50.76	75.14	50.76	26.68	33.71	61.53	84.18	77.91	87.74	85.32	54.92
Portugal	49.16	60.35	59.46	46.01	65.06	60.88	65.06	91.40	47.69	90.41	58.00	26.10	53.86	68.90	77.00	86.96	95.00	86.25	10.33
Chile	54.75	71.48	38.08	68.63	48.84	66.43	69.19	54.76	63.63	76.53	46.28	45.64	39.15	37.95	63.91	80.01	71.75	78.49	47.75

Costa Rica	57.40	83.54	32.35	45.65	91.06	75.21	66.90	64.75	38.56	58.64	55.36	39.35	49.86	48.60	60.53	75.29	85.56	77.29	41.47
Uruguay	59.28	80.39	31.64	46.36	70.98	75.22	68.14	71.24	44.43	69.33	55.69	36.92	44.78	42.70	67.58	78.40	81.92	77.68	28.39
Albania	57.84	56.54	61.84	50.47	65.62	41.51	76.96	78.19	40.99	64.92	88.35	18.55	51.53	56.21	74.07	61.71	84.83	77.90	23.97
Namibia	73.27	73.41	74.05	82.76	10.43	46.52	78.27	93.75	41.14	19.86	62.81	50.44	10.00	12.45	31.46	16.43	71.75	78.17	72.71
Liberia	80.82	65.16	65.60	80.47	89.89	64.70	37.10	93.41	37.87	18.81	58.41	16.60	45.97	34.95	80.94	20.84	73.21	52.33	63.43
Ecuador	54.22	75.25	40.21	46.00	83.45	68.59	67.04	66.57	49.40	60.29	30.50	27.96	52.21	47.93	69.37	72.44	82.65	69.50	36.50
South Korea	31.98	39.57	36.87	35.33	54.54	76.60	62.87	64.49	51.83	82.55	41.20	21.28	66.20	67.34	84.07	90.37	81.20	86.09	44.04
Thailand	45.14	54.96	40.20	37.52	84.14	67.80	57.29	72.85	55.99	42.12	48.96	22.06	57.29	59.19	84.33	74.99	69.57	78.34	41.75
United Arab Emirates	29.90	34.87	54.18	74.51	11.41	90.50	68.27	80.72	45.04	63.27	53.03	24.05	54.40	55.60	92.31	85.39	74.66	90.02	26.56
Sri Lanka	66.30	62.88	28.41	36.53	83.94	63.93	54.12	82.62	43.92	48.35	23.73	22.04	61.22	56.87	74.08	69.53	55.04	73.20	57.58
Peru	61.08	71.21	49.02	68.64	29.56	85.61	40.52	54.33	38.66	54.07	50.11	26.87	48.41	42.05	72.52	56.57	89.19	66.60	42.82
Malaysia	42.67	66.78	15.72	58.99	92.75	68.75	62.16	76.18	53.42	47.86	37.09	20.88	52.78	50.65	73.42	69.61	36.88	80.25	38.98
Turkey	43.78	60.13	39.34	53.94	59.29	73.29	56.48	68.98	47.03	56.88	61.76	11.65	54.69	55.43	61.79	75.74	74.66	85.02	21.41
Cambodia	58.57	66.53	45.61	48.07	87.95	71.60	47.19	76.22	38.88	38.57	48.58	28.34	52.25	39.00	89.76	48.73	73.21	58.84	34.21
Saudi Arabia	38.62	30.81	62.93	76.53	13.73	68.58	56.90	73.71	45.65	57.87	58.33	22.68	46.52	36.67	84.69	76.76	61.58	87.72	43.95
Qatar	17.88	27.45	60.11	72.86	10.00	91.30	56.02	94.24	44.72	67.95	53.14	22.81	56.98	66.23	84.90	82.07	12.91	95.00	34.96
Venezuela	51.64	68.72	62.48	56.63	83.16	70.97	61.37	71.97	44.34	44.37	44.89	35.13	50.47	36.00	66.63	41.38	77.56	41.78	28.03
Nigeria	58.07	49.00	54.66	50.66	79.22	80.71	23.94	88.93	48.12	14.66	55.12	42.67	70.91	52.14	80.98	43.03	55.77	69.36	25.29
Timor-Leste	73.22	79.89	80.54	49.03	81.67	68.25	55.47	80.49	17.97	32.51	52.76	14.15	49.21	41.41	90.48	45.20	79.02	26.02	38.13
Oman	35.10	44.96	34.92	71.65	12.63	80.23	55.36	85.61	42.13	58.37	50.95	30.75	36.15	34.25	86.90	56.99	20.17	84.12	66.15

Myanmar	65.65	57.75	45.47	49.75	81.88	68.67	68.27	66.99	47.07	34.41	50.08	20.83	52.97	45.09	86.15	34.18	47.05	51.80	43.33
Bulgaria	44.32	59.76	32.16	47.52	60.69	32.59	39.00	81.00	35.46	68.17	62.65	27.33	39.40	54.00	74.80	71.47	84.10	79.95	26.47
Vietnam	42.65	53.77	28.68	37.49	79.51	64.92	48.81	52.80	59.16	51.78	30.02	19.62	63.39	59.93	81.72	60.31	81.20	68.62	55.17
Kuwait	21.99	10.00	32.34	65.60	11.22	66.68	84.00	93.70	36.57	68.57	60.61	23.44	57.92	53.89	89.69	81.30	23.08	92.79	54.99
Ghana	60.98	51.26	44.60	58.09	79.18	68.25	10.13	94.76	37.44	26.81	45.81	20.09	60.74	48.04	71.24	41.42	65.94	64.05	63.05
Senegal	66.76	46.20	53.20	53.84	41.50	56.10	44.23	87.18	38.12	27.24	68.78	46.43	63.14	55.24	80.07	55.39	63.03	53.28	22.59
Algeria	46.18	59.89	55.65	48.67	38.77	65.30	43.18	91.81	37.21	57.36	64.00	13.03	60.99	52.47	78.22	62.56	45.60	62.43	26.09
Indonesia	52.15	69.35	32.02	56.92	90.02	67.14	58.07	42.06	53.38	29.74	36.01	18.16	56.59	24.18	79.51	52.19	60.85	73.29	41.37
El Salvador	55.17	63.76	42.05	33.07	82.68	26.63	35.45	76.50	38.75	47.83	51.33	17.35	60.86	55.13	76.80	62.39	81.92	71.48	31.23
Tanzania	65.77	91.96	52.95	49.78	75.82	82.79	29.69	70.76	37.51	20.94	25.38	19.15	55.09	48.44	75.37	56.04	73.21	50.96	27.72
Kenya	64.54	82.85	49.55	61.05	60.48	76.52	47.26	81.13	34.08	21.19	33.61	18.41	48.17	33.29	73.49	36.20	76.11	64.84	25.80
Philippines	59.81	70.06	20.11	48.82	89.36	67.79	49.19	48.76	48.63	38.25	31.68	16.95	62.36	50.82	75.61	71.06	70.30	66.36	21.03
Mozambique	78.84	85.74	64.58	57.38	73.11	68.57	38.99	60.63	43.58	20.82	33.23	24.68	46.30	38.63	62.74	18.70	74.66	39.96	30.06
Bangladesh	53.72	34.84	29.54	23.63	76.18	70.36	31.31	77.48	65.65	31.20	41.49	31.41	75.90	51.00	81.12	44.48	36.15	63.23	42.14
Lebanon	46.68	43.41	42.04	43.71	42.23	51.78	29.40	77.31	30.01	52.31	69.21	11.42	65.90	68.59	73.56	58.23	47.05	73.41	41.96
South Africa	52.00	76.05	42.97	57.20	67.66	61.95	43.22	68.50	41.97	24.41	47.10	34.20	48.77	49.08	10.00	56.53	81.20	70.21	10.77
Egypt	50.78	43.61	27.81	70.65	15.77	51.76	52.14	78.04	30.63	50.96	65.31	19.52	53.49	45.17	79.04	52.27	37.61	74.12	34.33
Iran	37.41	40.69	52.90	70.49	14.49	69.91	61.08	65.92	37.50	62.98	42.36	18.55	39.07	33.09	73.40	65.92	15.09	88.03	27.02
Morocco	56.72	44.95	49.24	67.07	21.65	53.11	44.07	87.02	38.57	46.60	48.32	20.66	49.93	46.00	67.94	61.15	66.67	66.02	14.41
Somalia	95.00	73.79	89.22	84.77	32.66	76.66	57.88	61.63	28.42	10.00	59.28	13.21	36.93	42.52	57.92	13.59	33.25	10.00	26.05

Djibouti	69.60	54.97	40.83	75.86	15.51	69.79	52.14	90.17	39.99	25.72	45.24	13.26	42.24	24.04	42.75	37.12	61.58	69.79	23.27
Sudan	76.51	54.62	68.76	74.49	10.93	55.72	40.22	80.99	23.09	38.67	66.00	19.26	40.14	10.00	76.10	43.58	16.54	54.02	21.84
Yemen	74.69	47.67	63.15	72.24	19.03	82.50	45.18	69.09	31.70	39.33	49.10	14.37	49.84	30.42	60.49	29.04	10.00	53.74	26.27
Pakistan	59.81	41.69	47.16	69.49	15.27	85.82	42.84	38.67	42.40	26.91	48.93	24.20	63.48	35.19	84.27	54.93	47.05	58.48	10.00



地址/Add.: 北京市西城区西单大木仓胡同33号院
No. 33 Damucang Hutong, Xidan, Xicheng District, Beijing, China
电话/Tel.: +86-010-66518560
邮箱/Email: codfsecretariat@gmail.com
网站/Website: www.cfocean.org



地址/Add.: 福建省厦门市厦门大学翔安校区金泉楼
Jinquan Building, Xiamen University Xiang'an Campus, Xiamen, Fujian, China
电话/Tel.: +86-592-2183833
邮箱/Email: fiso@xmu.edu.cn
网站/Website: fiso.xmu.edu.cn