



IOCINDIO Side Event on Strengthening Ocean Science and Regional Cooperation
in the Central Indian Ocean at IOSC-2025, Hyderabad / India
December 3, 2025

Ocean Science In The IOCINDIO Region

Dr. Maryam Ghaemi

Vice-Chair, IOCINDIO Sub-Commission



Bangladesh, France, India, Indonesia, Iran, Kuwait, Mauritius, Oman,
Russian Federation, Saudi Arabia, Sri Lanka, United Arab Emirates, United
States of America.

Vision

*The science we need for the
ocean we want*

DECADE OUTCOMES

"THE OCEAN
WE WANT"

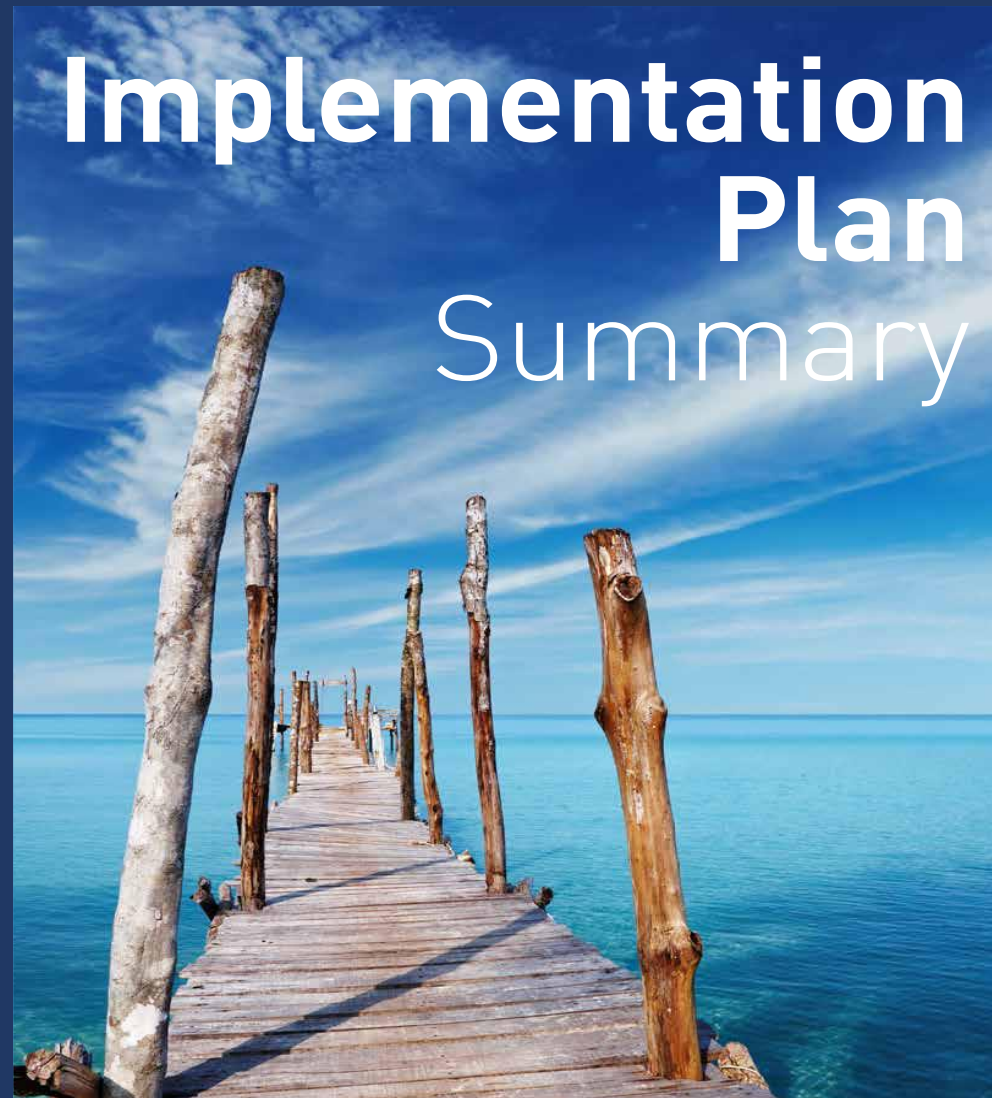
- Clean
- Healthy and resilient
- Productive
- Predicted
- Safe
- Accessible
- Inspiring and engaging



2016->

**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development

Implementation Plan Summary



The United Nations
Decade of Ocean Science
for Sustainable Development
(2021-2030)



OCEAN DECADE CHALLENGES



Pollutants



Ecosystems



Food from the Ocean



Ocean economy



Ocean-climate nexus



Ocean-related risks



Ocean observing system



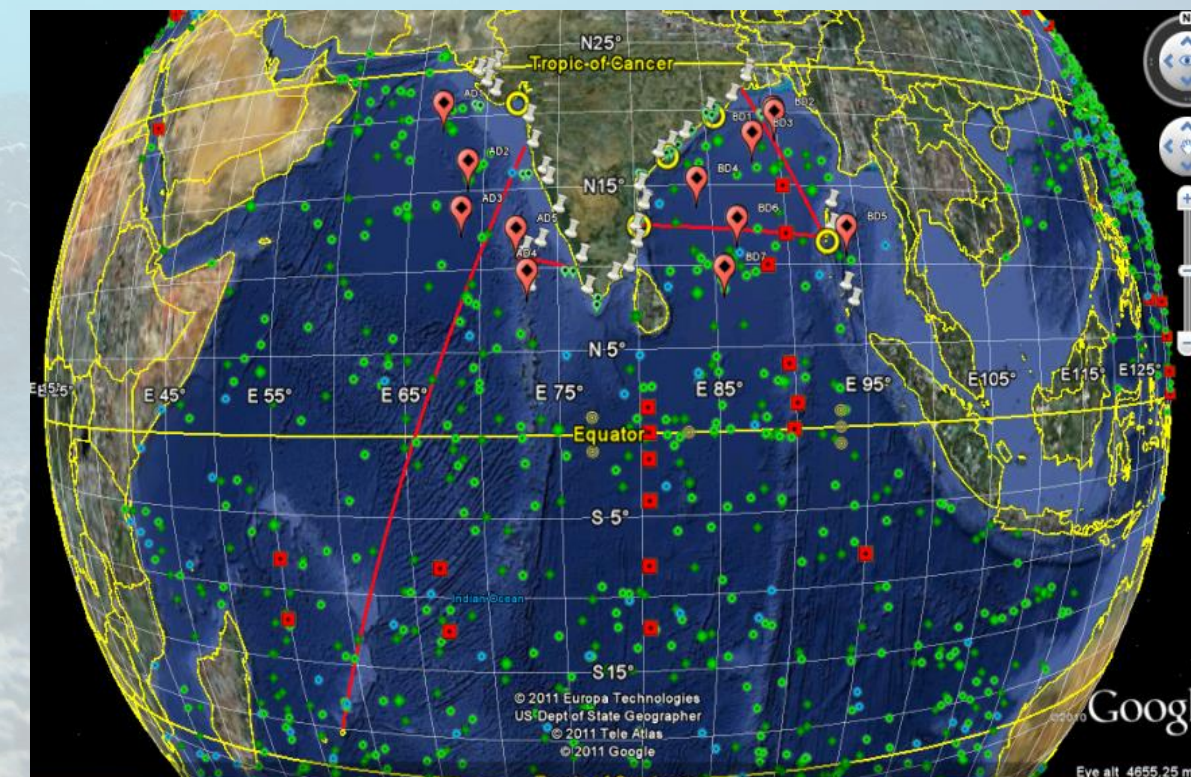
Ocean digital representation



Capacity development



Behaviour change



Scientific publications and marginal sea synthesis



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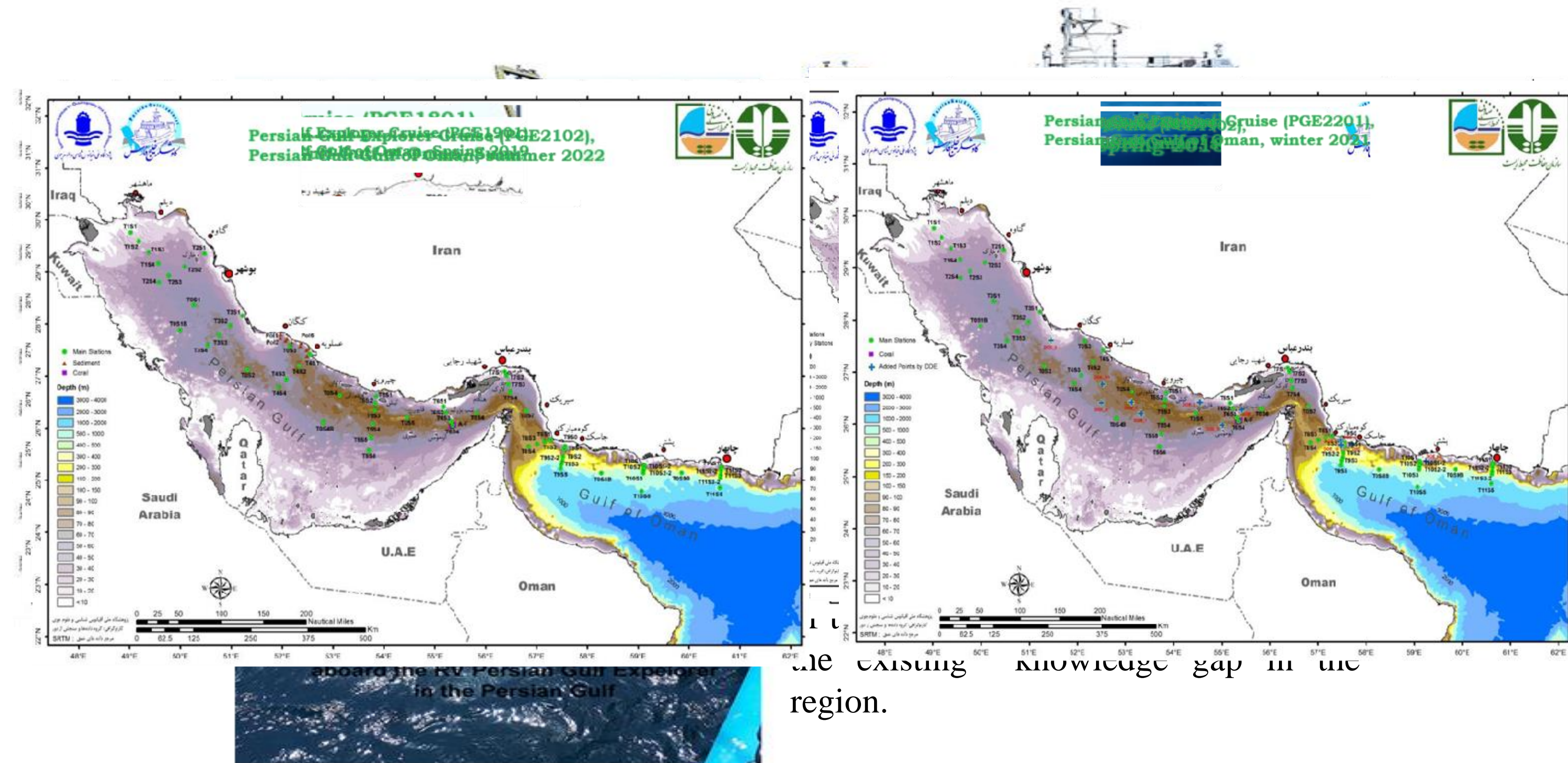
Understanding Oceanographic and Ecosystem Characteristics of the Persian Gulf: A Poorly Understood system

Edited by

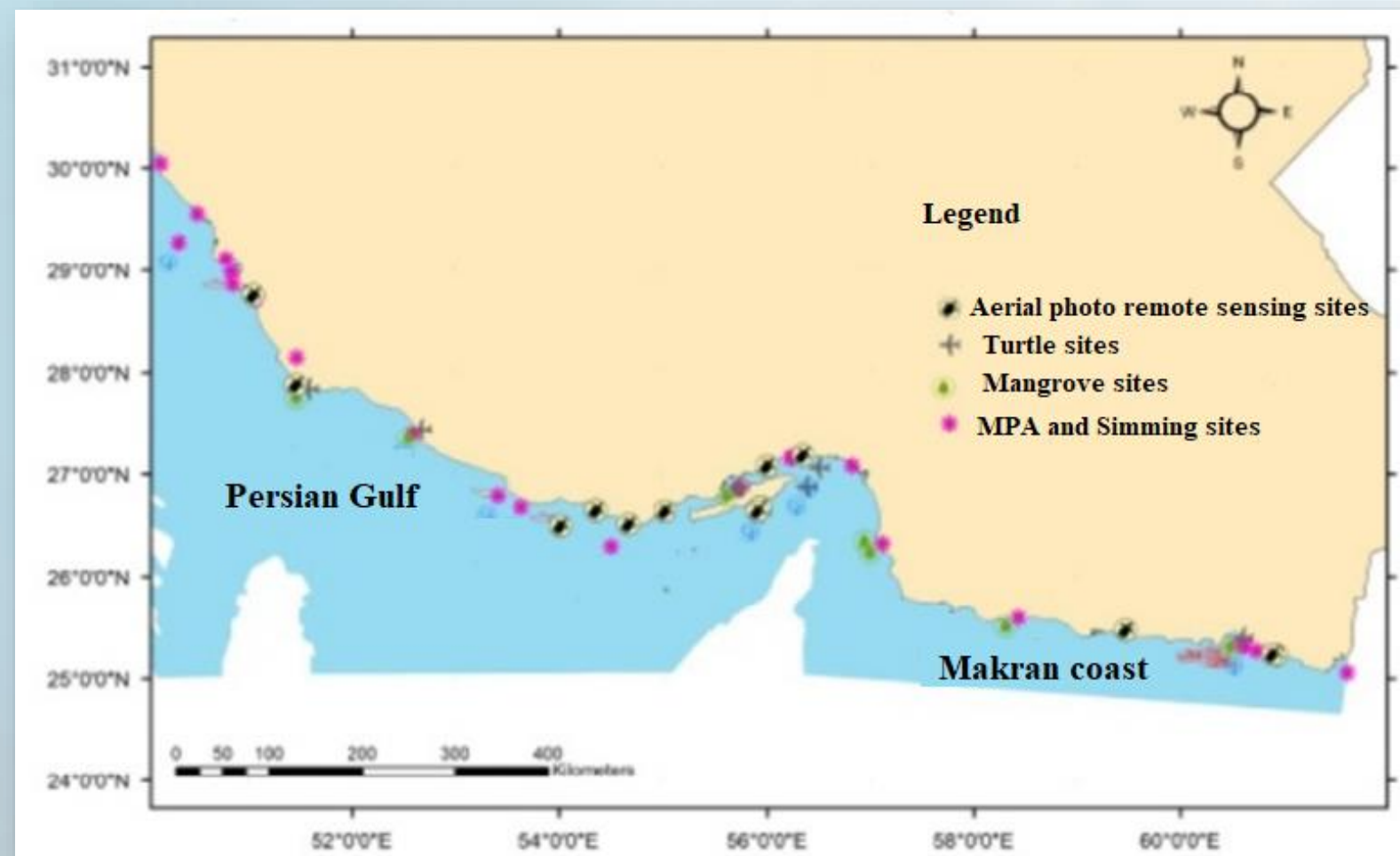
- Maryam Ghaemi
- Ying Wu
- Samina Kidwai
- Gi Hoon Hong

Last update 21 March 2025

Persian Gulf and Gulf of Oman Oceanographic Monitoring Program (started from 2018)



Iran's Coastal Area Monitoring Program (started from 2018)



Multidisciplinary field data collection

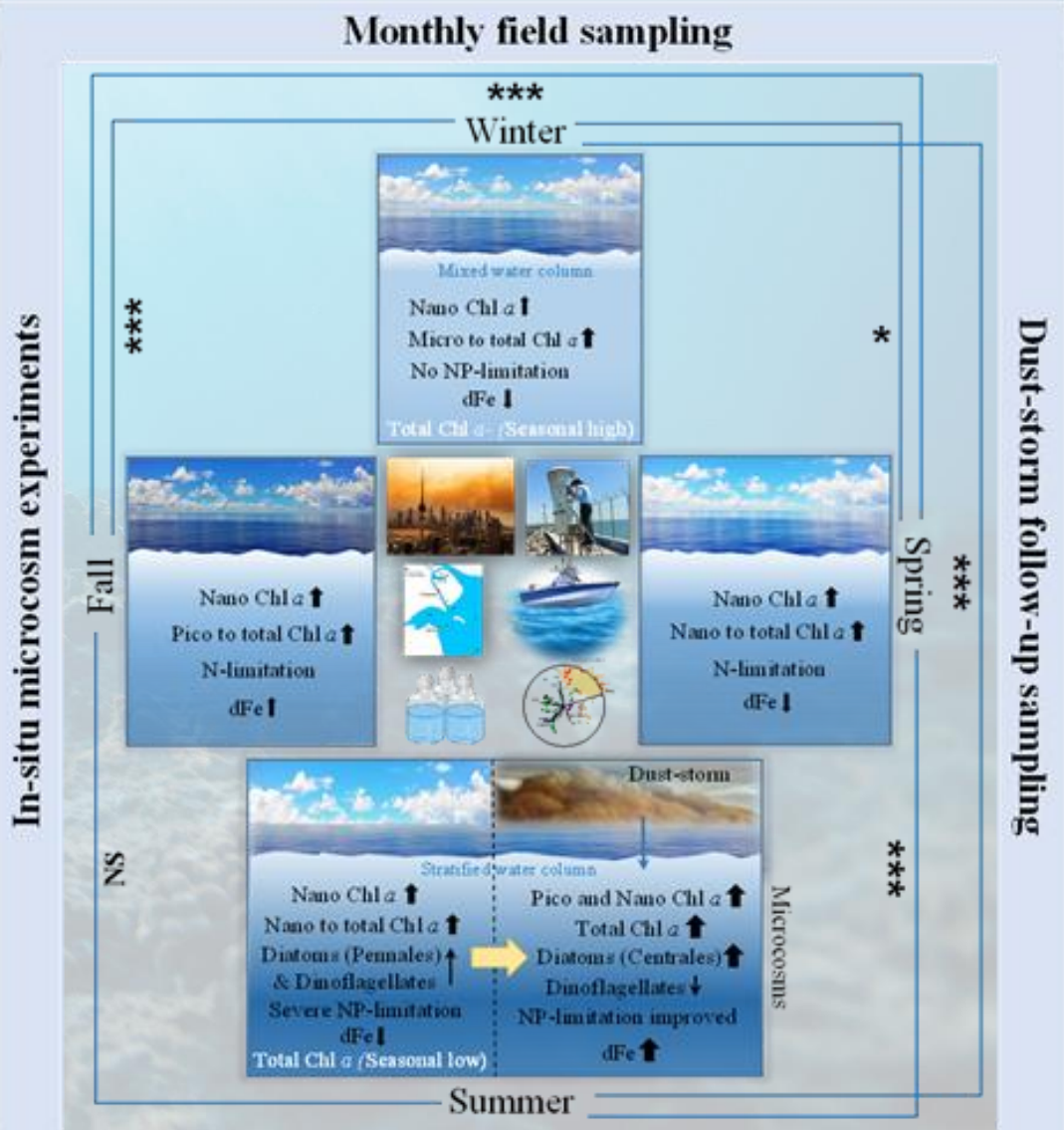
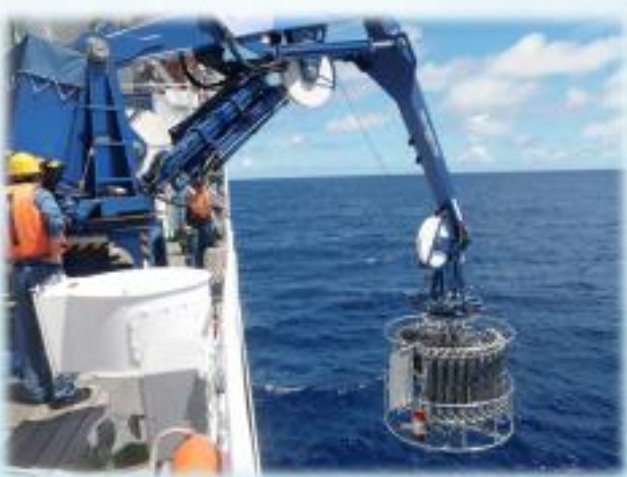
Data collection from sensitive coastal area include: coral reefs, mangrove areas, wetlands, intertidal area, sea turtle monitoring, etc.



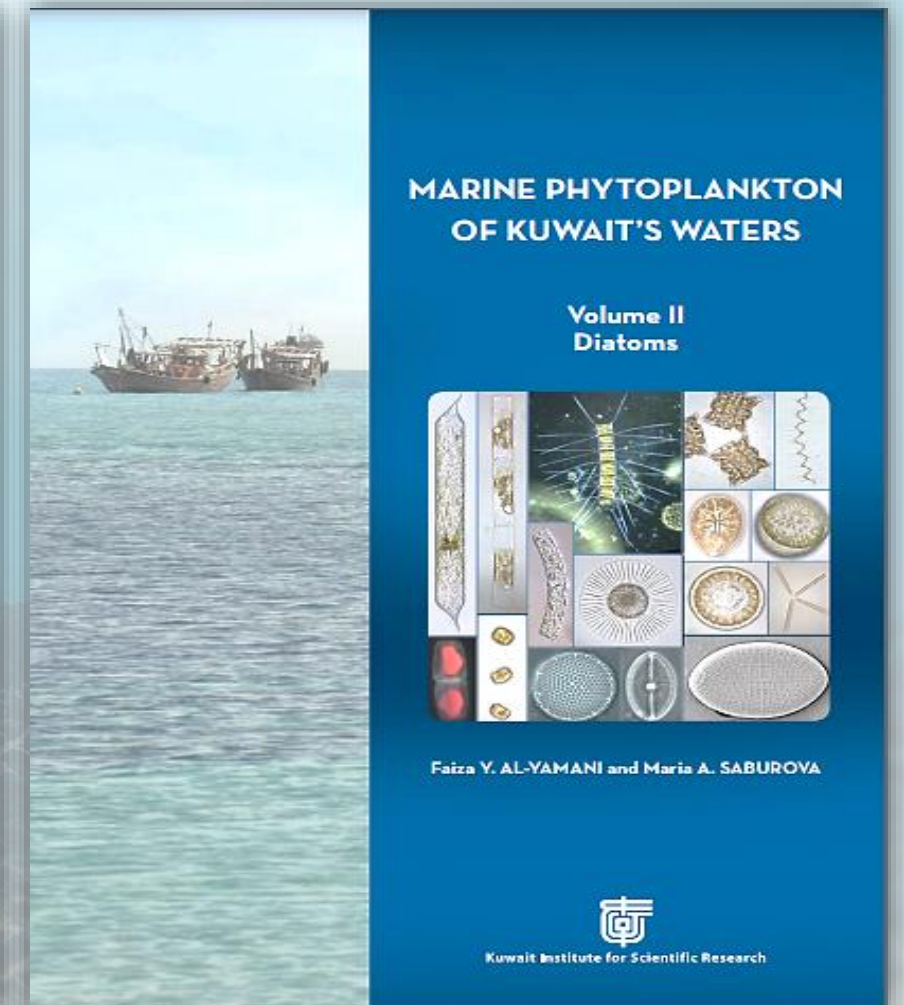
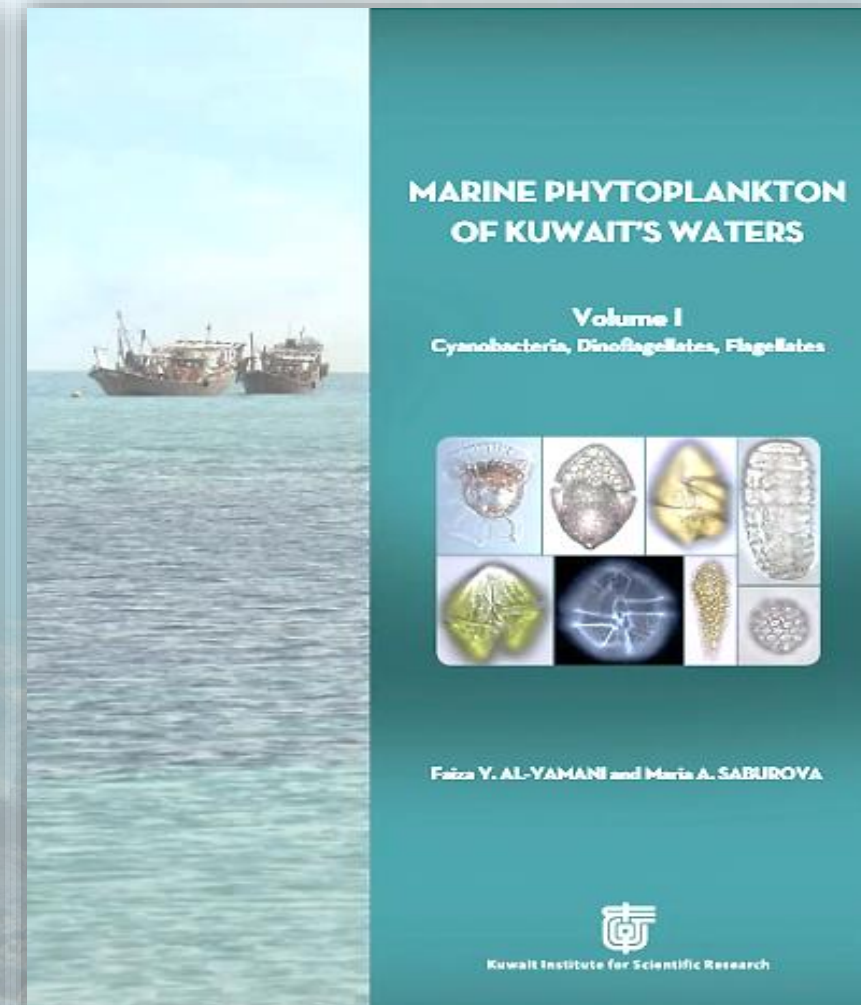
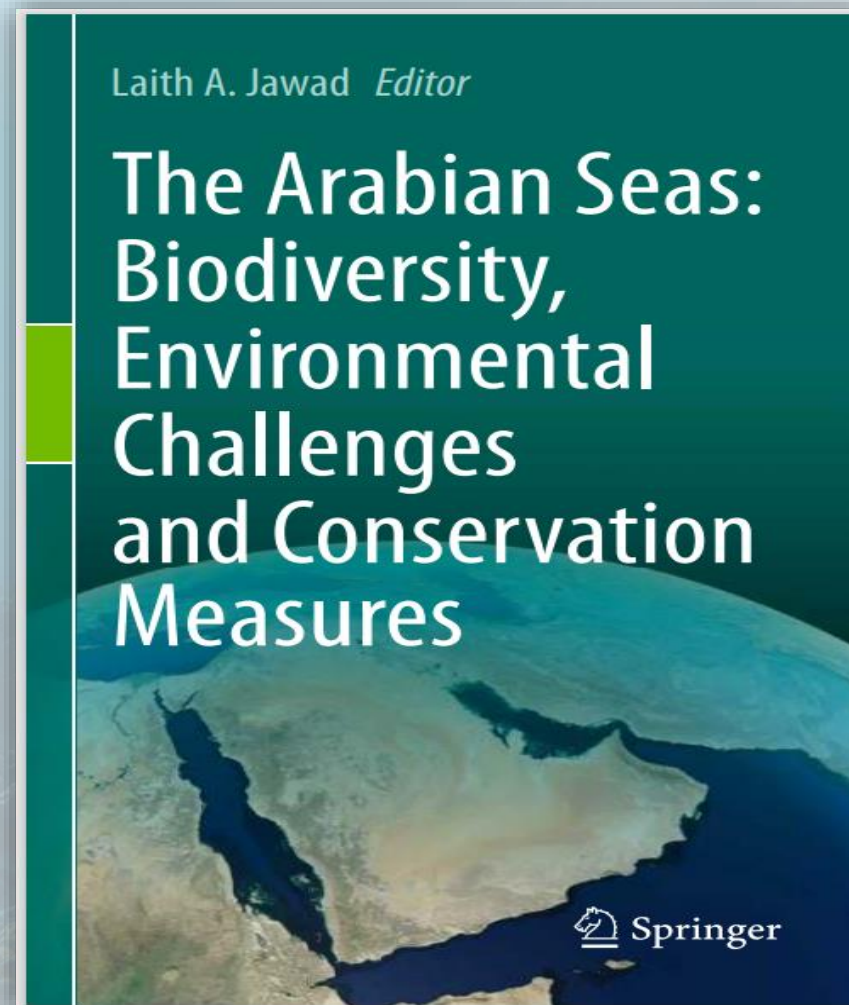
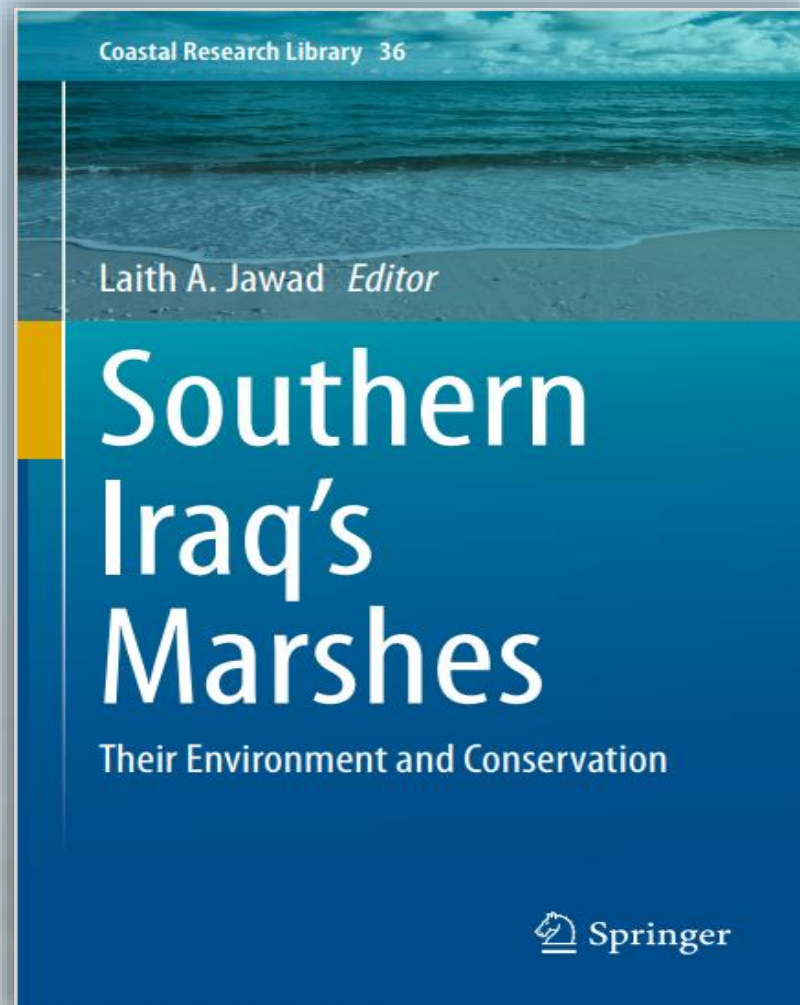
Kuwait Marine Researches



Environmental Characteristics of the MPA (STMP) (October 2018 – March 2022) & Long-term Management Plan (LTMP) (2024-2036)



Publications (Book/Book Chapters)



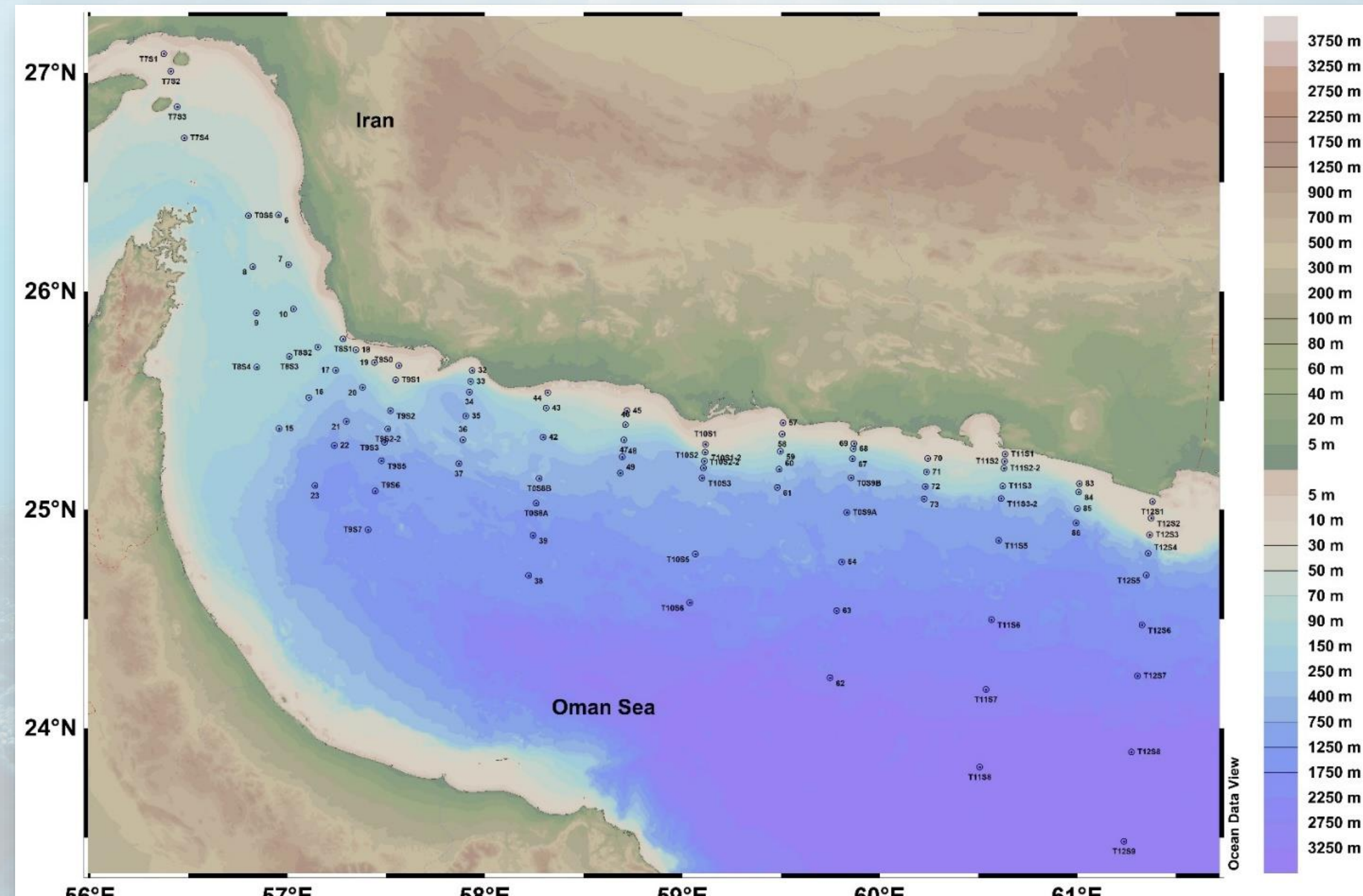
Major regional atlases and a 2025 publication



Upcoming 2026 basin-scale survey-Oman Sea



- 95 stations across the Oman Sea
- From shallow coasts to depths beyond 3,300 m



IIOE-2 endorsed project



Principal Enquiries: PO India Office

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2nd International Indian Ocean Expedition

2015-2025

IOGCOS

GLOBAL OCEAN OBSERVING SYSTEM FOR INDIAN OCEAN

United Nations Educational, Scientific and Cultural Organization

Intergovernmental Oceanographic Commission

International Science Council

Scientific Committee on Oceanic Research

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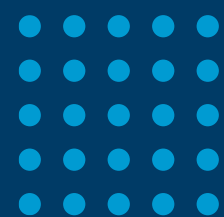
Endorsed Projects

NEW

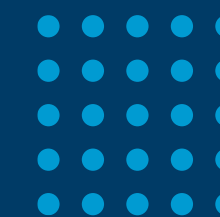
Endorsement Form for IIOE-2 Science Activities - [Click Here](#)

Search Term

Month & Year of Endorsement	Endorsement Number	Projects	Science Theme	Endorsement Form	Principal Investigator (PI)	Participant Nationalities
November, 2025	IIOE2-EP63	R/V HAKUHO-MARU CENTRAL INDIAN RIDGE CRUISE 2024 "MOWALL-CIR" (KH-24-4)	ST-2, ST-6		Kyoko OKINO	JAPAN
August, 2025	IIOE2-EP62	DERIVING KEY OCEAN CIRCULATION VARIABLES TO ENHANCE IMOS OBSERVATION OFF WESTERN AUSTRALIA	ST-2, ST-4		Ming Feng	Australia
August, 2025	IIOE2-EP61	TRENDS AND ECOSYSTEM RESPONSES IN MARGINAL SEAS OF THE NORTHWESTERN INDIAN OCEAN: A SYNTHESIS OF BIOGEOCHEMICAL AND BIOLOGICAL DATA	ST-1, ST-6		Dr. Maryam Ghaemi	Iran



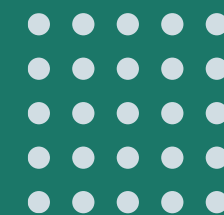
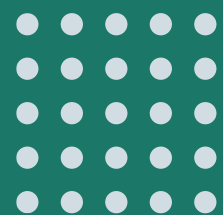
Priorities (Aligned with IOCINDIO Workplan)



1. **Strengthen regional ocean observations** – through the new Task Team on Basin-wide Integrated Ocean Observatory Systems, focusing on infrastructure assessment, data platforms, and early warning systems.
2. **Advance coordinated research** – via joint cruises feeding the Ocean Science, Biodiversity, Pollution & Governance Task Team priorities: ocean acidification/deoxygenation, coral reef monitoring, deep-sea biodiversity, and macro/micro litter.
3. **Translate science to action** – supporting coastal resilience (hazard maps, Tsunami Ready), fisheries sustainability, pollution mitigation, and ecosystem-based management via new IOCINDIO Task Teams



THANK YOU!



Email: mghaemi@inio.ac.ir