



UDA

UNDERWATER DOMAIN AWARENESS

E-NEWSLETTER - 2025



2ndQUARTER AT A GLANCE

25+

UDA Summer Interns from best colleges 380+

Social Media postings (across platforms) UDA Webinars conducted

4

15+

UDA Workshops and Interactions 1 Lac+

Social Media Impressions

maritimeresearchcenter.com





THOUGHTS FROM THE EDITOR

"We are pleased to share the key highlights from Q2 2025. This quarter marked significant progress in advancing the UDA Framework. We conducted a UDA workshop at the Sushma Swaraj Institute for IORA Member States and participated in the Dredging Conclave 2025 at FICCI, bringing UDA to the forefront of India's diplomatic and policy platforms. Our UDA Summer Internship 2025 welcomed 25+ outstanding interns from top institutions worldwide, selected from thousands of applicants. We also hosted impactful webinars, including a special session on World Oceans Day 2025, featuring representatives from the Sasakawa Peace Foundation, which deepened the India-Japan maritime dialogue. We hope you enjoy reading about our progress this quarter.



Nishtha Vishwakarma

Head of Communications and Outreach, Maritime Research Center

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IORA WORKSHOP AT SUSHMA SWARAJ INSTITUTE OF FOREIGN SERVICES



01

On April 29, 2025, our Founder and Director, Dr (Cdr.) Arnab Das conducted an Experiential Learning Session on the 'Six Priorities of the Indian Ocean Rim Association (IORA)' as part of a 'Special Course for Diplomats from IORA Countries.' This course was hosted by the Sushma Swaraj Institute of Foreign Service, under the Ministry of External Affairs, India, in New Delhi, aiming to nurture the next generation of diplomats.

READ MORE

ICWA'S PANEL DISCUSSION ON 'MARITIME DOMAIN AWARENESS'

On May 9, 2025, we participated in a panel discussion on 'Maritime Domain Awareness in the Indo-Pacific Region,' organised by the Indian Council of World Affairs (ICWA) in New Delhi.

WATCH THE VIDEO

READ MORE



ATTENDED AND PARTICIPATED IN THE DREDGING CONCLAVE AT FICCI



On May 16, 2025, we participated in the Federation of Indian Chamber of Commerce and Industry (FICCI)'s Dredging India Conclave 2025. Dr (Cdr) Arnab Das led our representation at the event, contributing valuable insights to a dynamic panel of dignitaries and senior industry leaders.

MEETING WITH THE JS-INDO PACIFIC AND ASEAN IN NEW DELHI



On May 9, 2025, we had an insightful meeting with Ms. Nabanita Chakrabarti, Joint Secretary (Indo-Pacific & ASEAN), Ministry of External Affairs, Government of India. Our discussion centred on the strategic

significance of the Indo-Pacific region, with a special emphasis on maritime security and sustainable growth.

READ MORE

MEETING WITH AN OFFICIAL FROM THE SOUTH AFRICAN EMBASSY

On April 21, 2025, our team engaged in a meaningful discussion with Mr. Mashudubele (Sedula) Mamabolo from the South African High Commission in New Delhi.

This high-level interaction focused on exploring the strategic maritime partnership between India and South Africa.



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MEETING WITH A COSTA RICAN EMBASSY INDIVIDUAL

On April 22, 2025, our team had a significant meeting with a senior diplomat at the Embassy of Costa Rica in India.

The discussion focused on advancing bilateral cooperation in maritime research, sustainability, and technology.

MOU WITH OP JINDAL GLOBAL UNIVERSITY



01

On April 22, 2025, MRC officially signed an MoU with the O.P. Jindal Global University, Sonipat, Haryana.

This partnership is aimed at facilitating academic material as well as the UDA Toolkit to the students of the university.

READ MORE

UDA WORKSHOP AT O.P. JINDAL GLOBAL UNIVERSITY

Parallel to signing the MoU with O.P. Jindal Global University, Dr (Cdr.) Arnab Das and Mr. Praful Talera, MRC's Advisor on Blue Economy, conducted an insightful UDA Workshop for the students and faculty members of the college. Students engaged in a vibrant Q&A session, reflecting their readiness to contribute to the maritime domain.



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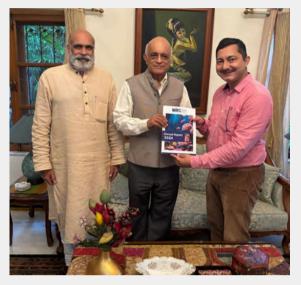
UDA SKILLING PROGRAMME HAS RECIEVED APPROVAL

On June 24, 2025, an undergraduate skilling program on UDA, which was developed by MRC, was approved by the Ratan Tata Maharashtra State Skills University. This was approved in the presence of Dr. Apoorva Palkar, Founding Vice Chancellor of RTMSSU. This program will leap forward India's maritime and underwater skill development landscape.

READ MORE

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MEETING WITH AMBASSADOR SUDHIR DEVARE



01

We were honoured to meet Ambassador Sudhir Devare, Chairperson of the Society for Indian Ocean Studies, for an engaging discussion on advancing Marine Spatial Planning (MSP) in the Indian Ocean Region. The meeting was led by Dr. (Cdr) Arnab Das and joined by Mr. Praful Talera. This meeting was held on June 19, 2025.

READ MORE

WORLD AQUACULTURE, FISHERIES AND SEAFOOD CONFERENCE

On June 10, 2025, Mr. Shridhar Prabhuraman, Deputy Director at MRC, delivered an insightful presentation at the World Aquaculture, Fisheries and Seafood Conference 2025. Our team participated remotely in the conference, which was held in Rome, Italy.

APY analysis: Integrating mathematical modeling in aquaculture to predict growth dynamics for high-yield and sustainable operations

> Shridhar Prabhuraman shridhar.prabhuraman@maritimeresearchcenter.com

Maritime Research Institute (MRC), Pune, India

10th June 2025



READ MORE

MRC'S FIELD VISIT TO VERAVAL IN GUJARAT



MRC conducted an insightful field visit to Veraval, Gujarat, to better understand the livelihoods of coastal communities and validate our in-house Area Production Yield (APY) tool for seaweed and shrimp farming. The previous field visit was conducted in November 2024, where our team was deployed to Ratnagiri in Maharashtra.

CHALLENGES FACED BY COASTAL COMMUNITIES



01

As part of the main objective of this field visit to Veraval, the purpose was to interact with the fishing community and identify the socioeconomic and environmental challenges affecting their livelihoods. During our interaction, these fisherfolk mentioned the challenges they face while engaging in seaweed cultivation.

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FIELD VALIDATION OF THE APY TOOL IN VERAVAL, GUJARAT

During our visit to Veraval, Gujarat, our team focused on field validation of the Area Production Yield (APY) Tool, developed by MRC. This tool is designed to support and optimise seaweed and shrimp farming through data-driven insights. Using the APY Tool for upgrading and enhancing the seaweed and shrimp farming was at the core of our field visit

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TEAM INTERACTION WITH COASTAL COMMUNITIES IN VERAVAL, GUJARAT



As part of the field interaction exercise, our team engaged with coastal communities in Veraval, Gujarat, through a two-day virtual interaction, fostering dialogue on aquaculture, seaweed farming, and sustainable livelihoods. Our team led a crucial conversation around income generation and the evolving dynamics of the fishing sector.

MRC-NESA WEBINAR MENTIONED IN THE NESA REPORT

PROMOTING OUR LATEST E-LEARNING MODULES

NESA CENTER UPDATE

NESA REGION TRENDS: CYBERSECURITY

01

- Surge in Infostealer Malware: The UAE experienced a notable increase in infostealer malware, with <u>Bott ine Stealer accounting for</u> 60.9%, ad <u>infections</u>. This trend threatens personal and organizational data security, underscoring the urgent need for enhanced cyber defenses.
- Rise in Cyberattacks Targeting Critical Infrastructure: Statesponsored groups, particularly from tran, internified cyberattacks on critical infrastructure, including Insrafs railwoad network, using puphisticated phishing campaigns to compremise electrical systems. These incidents reveal the growing vulnerability of critical systems and the rising states of cyber conflict in the region.
- Increased Cybersecurity Investments: Israel was the number two target in the world for hackers and malicous actors in 2024 with 1,550 cyberstacks, mostly from pro-Palestinain groups opposing taraet's policies in the Middle East. Israeli cybersecurity firms raised 54 billion in 2025, more than double the previous year, driven by heightened demand for cloud and Al security solution. This surge in investment highlights how geopolitical tensions are directly accelerating the development and adoption of advanced cybersecurity technologies in the region.
- Middle East Cybersecurity Landscaper. As the Middle East (MC) expands its digital infratructure, it faces growing cyber threats driven by economic modernization, technological growth, and geopolitical tensions. State-sponsored attacks, cybercrime, and hacktivism are rising, making robust cyber defense essential for re-

NESA Center Update | May 2025 | Near East South Asia Center for Strategic Studies | NESA-Centers





IN THIS REPORT 1-2 NESA Region Trends 3-4 Programs & Events 5-8 Engagement 9 Alumni Pubs & News 10 Calendar 11 Celebrating 25 Yeart The NESA Centre, USA, has mentioned our webinar in their recent Updates Report. This report highlights the 'India-US Maritime Partnership' webinar that we jointly hosted with the NESA Centre, and was attended by domain experts and policymakers from both nations.

This webinar, hosted on March 19, 2025, drew participation from Think Tanks, including the Wilson Center in the USA.

READ MORE

READ WEBINAR REPORT

DID YOU KNOW? DID YOU KNOW?





Explore our latest E-Learning modules on the Blue Economy, now live on the UDA Learning Center platform!. These modules are a valuable resource for students, policymakers, industry professionals, or anyone simply curious about maritime sustainability.

LEARN MORE

Explore our latest e-learning series on Climate Change Risk Assessment, designed for professionals, students, and policy enthusiasts. Gain critical insights into how climate change is impacting communities, livelihoods, and maritime systems – and how we can respond.

LEARN MORE

Explore our latest e-learning modules on "Sediment Management," which impacts both marine and freshwater systems. Whether you're a researcher, policymaker, or environmental engineer, this course offers insights essential to sustainable marine and freshwater system management.

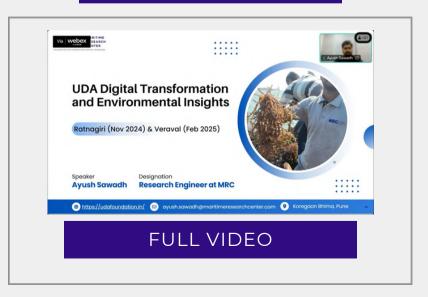
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Enhancing Coastal Management: Interaction with the Coastal Communities

April 3, 2025



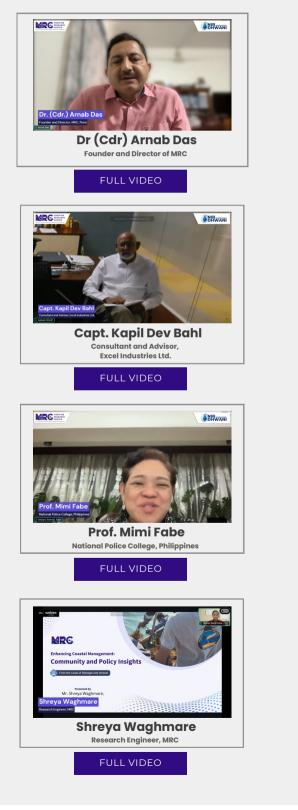
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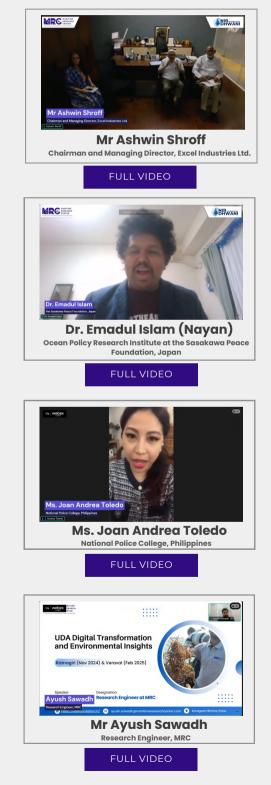


02 WEBINARS

Enhancing Coastal Management: Interaction with the Coastal Communities

Speakers' Presentations | April 3, 2025

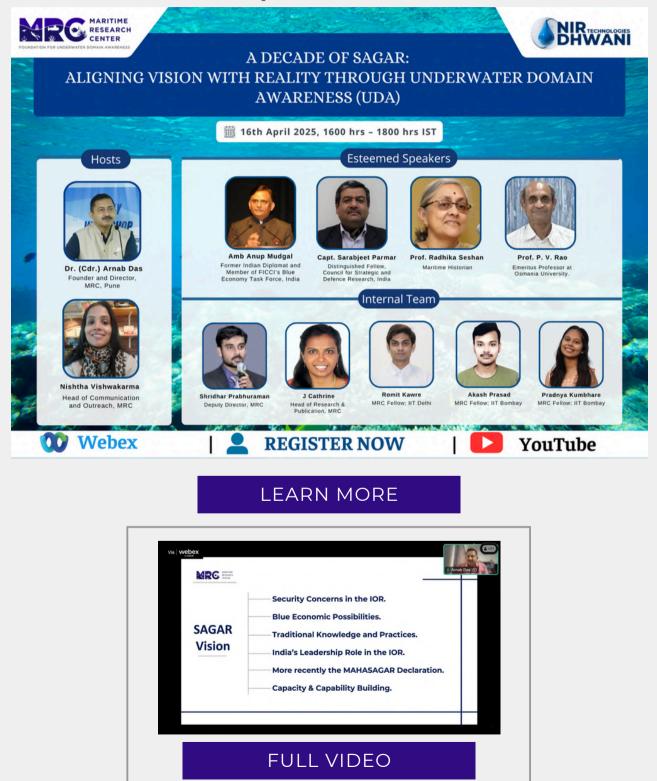




02

A DECADE OF SAGAR: ALIGNING VISION WITH REALITY THROUGH UNDERWATER DOMAIN AWARENESS (UDA)

April 16, 2025

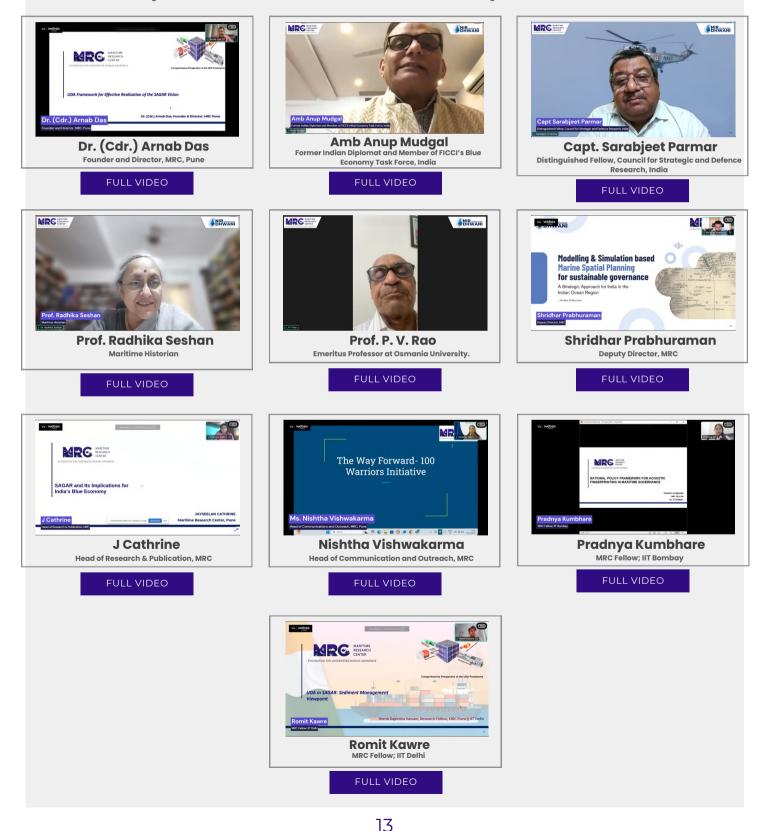


WEBINARS

02

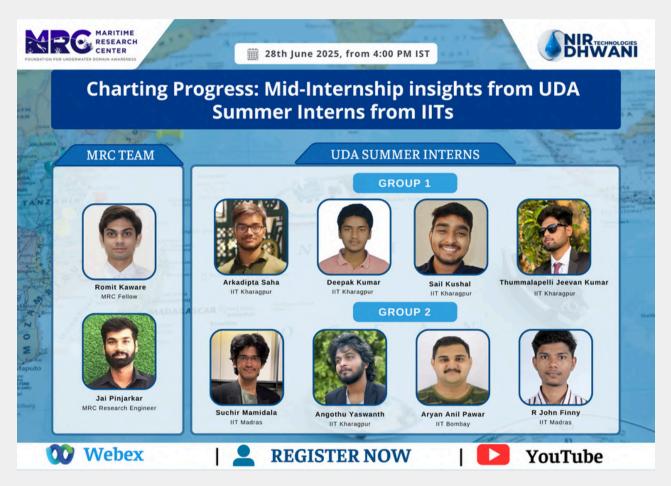
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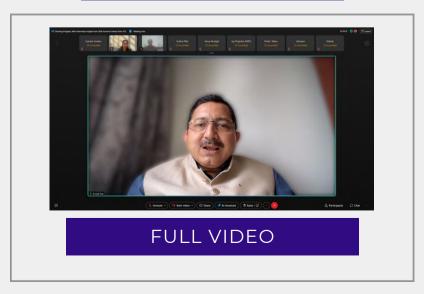


Charting Progress: Mid-Internship insights from UDA Summer Interns from IITs

June 28, 2025



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World Oceans Day 2025: India-Japan Regional Dialogue on Maritime Cooperation

June 8, 2025

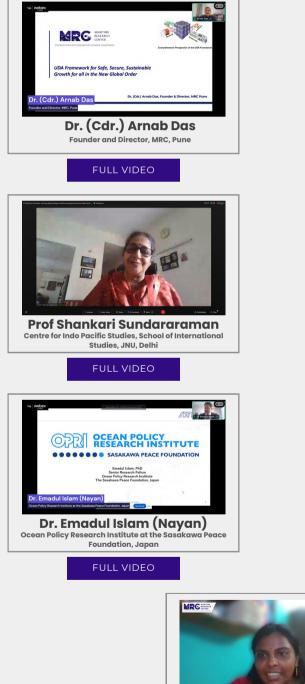


VIEW REPORT



India-Japan Regional Dialogue on Maritime Cooperation

Speakers' Presentations | June 8, 2025







Dr. Mengyao Zhu Ocean Policy Research Institute at the Sasakawa Peace Foundation, Japan

FULL VIDEO



Mr. Praful Talera MRC's Adviser on Blue Economy

FULL VIDEO

BHWAN



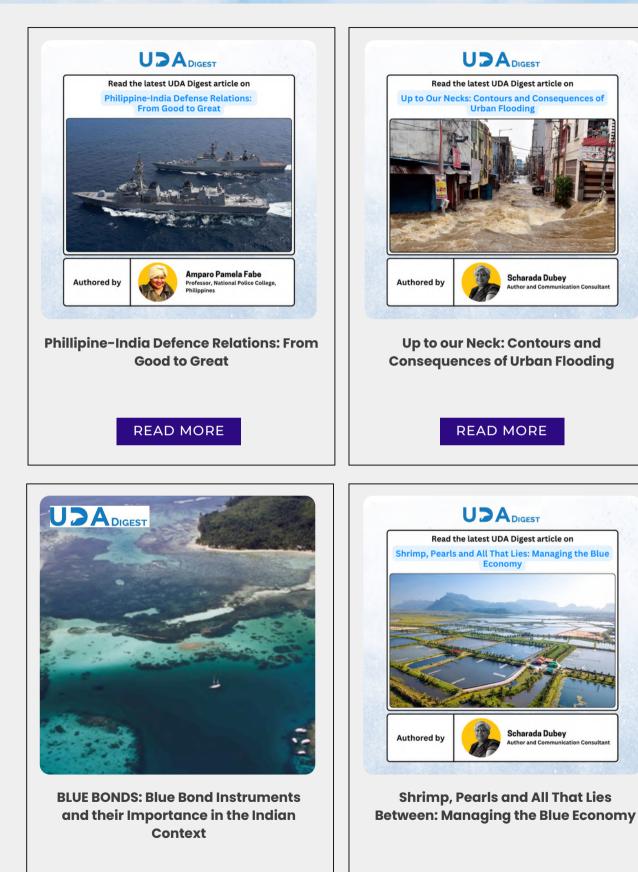
Head of Research & Publication, MRC, Pune

FULL VIDEO

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UDA DIGEST ARTICLES

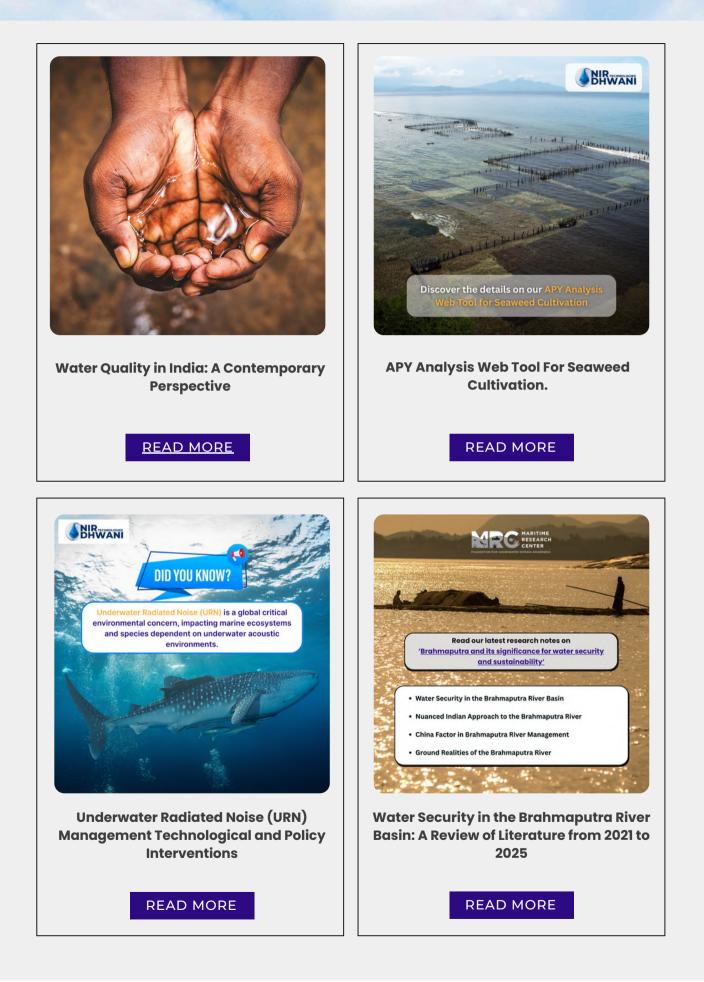
03



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04

KNOWLEDGE CENTER RESEARCH ARCHIVES



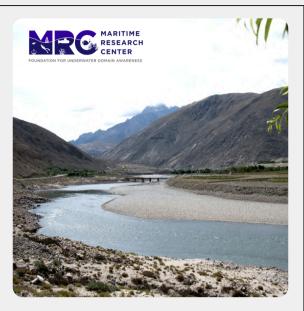
04

KNOWLEDGE CENTER RESEARCH ARCHIVES



The Nuanced Indian Approach to the Brahmaputra River: Strategic Vision, Development Initiatives, and Indigenous Knowledge Systems

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The China Factor in Brahmaputra River Management: Implications for Indian Strategy

READ MORE



Ground Realities of the Brahmaputra River: Past and Present Management, Emerging Challenges, and a Way Forward

READ MORE



Mapping the Indian Ocean Rim Association Through The Underwater Domain Awareness Framework

Video messages from senior dignitaries on World Environment Day 2025"



Dr Benno Boer Chief of Natural Sciences, UNESCO India

WATCH THE VIDEO



Mr. Kishore Mandyan Former political director at the United Nations Secretary Genral

WATCH THE VIDEO



Amb. Anup Kumar Mudgal

Former Indian Diplomat and Member of the Blue Economy Task Force at FICCI

WATCH THE VIDEO

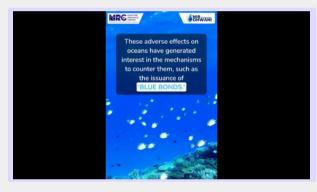
05 MRC VIDEOS





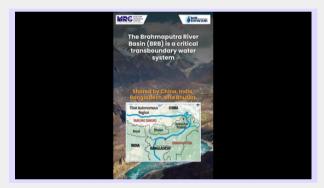
MRC's Quarter-1 (2025) Newsletter

WATCH THE VIDEO



What are Blue Bonds, and what is their significance?

WATCH THE VIDEO



Explaining the significance of Brahmaputra River

WATCH THE VIDEO



Keynote address by Mr. Michael Kugelman from The Wilson Centre, USA

WATCH THE VIDEO



Keynote address by Dr. Emadul Islam from Sasakawa Peace Foundation, Japan

WATCH THE VIDEO

INTERNSHIPS & FELLOWSHIPS

INTERNS FROM IITS



06

ARYAN ANIL PAWAR IIT Bombay



ARKADIPTA SAHA IIT Kharagpur



JEEVAN KUMAR IIT Kharagpur





SUCHIR MAMIDALA



DEEPAK KUMAR IIT Kharagpur



SAI KUSHAL IIT Kharagpur



ATHARVA AGRAWAL



R JOHN FINNY IIT Madras



ANGOTHU YASWANTH IIT Kharagpur



ATUL MANGAL IIT Delhi



ADI AMRUTA IIT Kanpur

INTERNSHIPS & FELLOWSHIPS

INTERNS FROM IITS



06

HARSHIT LOGRE IIT Kanpur



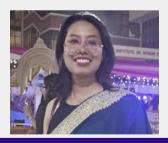
DEEPAK CHAURASIA IIT Kanpur



MOHD NASAR SIDDIQUI IIT Kanpur



INTERNS FROM SYMBIOSIS SCHOOL OF LIBERAL ARTS, PUNE



RAJLAKSHMI WAIKHOM Major- International Relations



PALAK JINDAL Major- International Relations

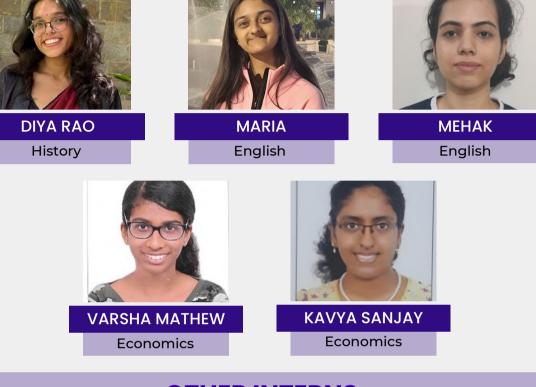


VIDYA SREERAM Major- English Literature



ARUSHI BISHT Major- International Relations 06 INTERNSHIPS & FELLOWSHIPS

INTERNS FROM ST. STEPHEN'S COLLEGE, UNIVERSITY OF DELHI



OTHER INTERNS



MS. PRATHNA ANAND

B.A. in Public Policy and Leadership University of Virginia, USA



LAKSHMI IYER

Marketing and Communications Intern from Welignkar Institute, Bengaluru



TEJASWINI KAKTIKAR

BSc. Anthropology at University College London (UCL), United Kingdom (UK)



MAHEK SHRIBAS

G.H. Raisoni College of Engineering(GHRCE), Nagpur O7 GET IN TOUCH WITH US

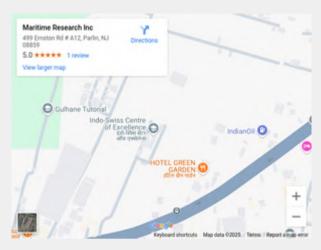
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<u>Map</u>



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