



UDA

UNDERWATER DOMAIN AWARENESS

E-NEWSLETTER - 2025



QUARTER AT A GLANCE

5

Media Features and Mentions 360+

Social Media postings (across platforms) 3

UDA Webinars conducted 15+

UDA Workshops and Interactions

1 Lac+

Social Media Impressions

maritimeresearchcenter.com





THOUGHTS FROM THE EDITOR

"I am pleased to share the Newsletter for the first Quarter of 2025. This quarter proved to be incredible for our team in various ways as we did our best to make the concept of UDA more and more mainstream. This quarter, we made significant progress, including participating at the Asia Economic Dialogue 2025 and launching our Annual Report. Our media presence and mentions have surged, reflecting the growing impact of our work. We also welcomed talented fellows from IIT Bombay, and we look forward to their research insights in the coming months. Our UDA Digest e-magazine also featured thought-provoking articles from domain experts on maritime security and the blue economy. We hope these highlights provide a clear view of our work and the UDA concept we champion."

NISHTHA VISHWAKARMA

HEAD OF COMMUNICATION AND OUTREACH, MARITIME RESEARCH CENTER

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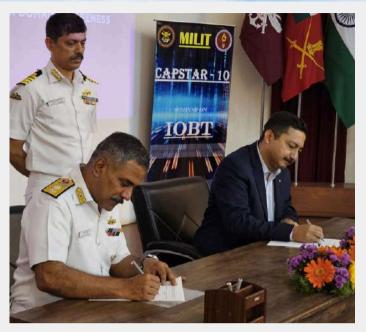
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UPDATES AND INTERACTIONS



On January 10, 2025, the Maritime Research Center (MRC) and the Military Institute of Technology (MILIT) Memorandum a Understanding (MoU) to enhance the capacity building of Armed Forces officers. This strategic partnership will focus on advanced training and research, equipping officers with the necessary skills to navigate the evolving maritime and defense sectors.

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On February 22, 2025, we participated in the Asia Economic Dialogue 2025, hosted by the Pune International Centre, in collaboration with MEA, Gol. During the panel discussion on Blue Economy, Dr. (Cdr.) Arnab Das highlighted the role of UDA, AI, and digital transformation in advancing the Blue Economy.

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FULL VIDEO



"Digital transformation has proven to be a powerful tool for good governance. In the Indo-Pacific strategic space, this transformation, through initiatives like Marine Spatial Planning (MSP) under the UDA framework, can effectively manage regional challenges and opportunities, ensuring safe, secure, and sustainable growth,"

Dr (Cdr.) Arnab Das. in the latest ICWA Special Publication on 'Maritime Domain Awareness in the Indo-Pacific Region'

In January 2025, Dr. (Cdr) Arnab Das' research paper was featured in Indian Council of World Affair's (ICWA) publication. It highlights the Underwater Domain Awareness (UDA) framework for the Indo-Pacific. In the paper, Dr Das has outlined MRC's three-step strategy—Outreach, Engage, and Sustain—to enhance regional security for the sustainable maritime governance.

01

UPDATES AND INTERACTIONS

In January 2025, we unveiled our Annual Report 2024, highlighting our progress in research, innovation, and sustainability. "As we reflect on 2024, we take great pride in presenting MRC's Annual Report. This transformative year has driven advancements in skilling, research, and strategy for a safe, secure, and sustainable Indo-Pacific," writes Dr. (Cdr) Arnab Das in the Letter that is featured in the Annual Report.



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On January 20, 2025, our team, led by Dr. (Cdr) Arnab Das and our Research & Publication Head Ms. J Cathrine, held a key meeting with officials from the French Embassy in India. The discussion focused on the critical importance of submarine cable safety and intersection with Maritime **Domain** Awareness (MDA), Underwater Domain (UDA), Awareness and strategic imperatives.

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On January 21, 2025, MRC hosted Guardinger Advanced Technologies at the UDA Center, Pune. Dr. (Cdr) Arnab Das presented key research on collision avoidance, underwater noise, sediment management, and the blue economy, while the team demonstrated the SRN model and the APY Tool.



UPDATES AND INTERACTIONS



On February 14, 2025, Dr. (Cdr) Arnab Das met Ms. Nutan Kapoor Mahawar, Additional Secretary at ICWA, New Delhi, during his Delhi visit. Ms. Nutan presented ICWA's special publication on Maritime Domain Awareness (MDA) in the Indo-Pacific, featuring Dr. Das's research on Underwater Domain Awareness (UDA).

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On February 22, 2025, MRC team, led by Dr. (Cdr) Arnab Das, hosted Mr. Joel Ruet and team from The Bridge Tank (France) to discuss the Framework, Blue Economy, Maritime Security, and Climate Change. Our team also highlighted our ongoing skilling programs and MRC's contributions to FICCI's Blue Economy report. This interaction paves the way Indo-French maritime for innovative collaboration and



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On March 7, 2025, Dr. (Cdr) Arnab Das met Capt. Kosuga Hiroyuki, Naval Attache at the Embassy of Japan in India, to discuss UDA. The meeting focused on Underwater Radiated Noise (URN) and Sediment Management for a sustainable maritime environment, strengthening India-Japan maritime cooperation in the Indo-Pacific.

01

UPDATES AND INTERACTIONS

On March 7, 2025, Dr. (Cdr) Arnab Das met Col. Emmanuel Peltriaux, Defence Attaché at the French Embassy in India, New Delhi, to discuss UDA and maritime security, reinforcing India-France cooperation in safeguarding international waters.



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In March 2025, Dr. (Cdr) Arnab Das, along with Mr. Shridhar Prabhuraman and Ms. J Cathrine, met Mr. Gopal Krishna Pillai, Former Home Secretary, GOI, to discuss the nuances associated with UDA and maritime security. The meeting explored insights on the UDA Framework and potential collaboration with the Ministry of Home Affairs.

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On March 27, 2025, Dr. (Cdr) Arnab Das and Cathrine J from the MRC team met Dr. Emadul Islam (Nayan) from the Sasakawa Peace Foundation, Japan. The discussion centered around UDA-driven collaboration between India and Japan. Key topics discussed were strategic trade routes, SIDS engagement, Northeast India's maritime cooperation, and the 100 Coastal/River Warriors Initiative.



WORKSHOPS

On January 9, 2025, we were honored to collaborate with the Military Institute of Technology (MILIT) for a UDA workshop for the CAPSTAR officers of the Indian Armed Forces. The workshop was held at the MILIT premises in Pune, Maharashtra. During his presentation, Dr Das discussed the 'UDA Framework for Safe, Secure, Sustainable Growth for All in the New Global Order'.



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On January 9–10, 2025, at the MILIT premises in Pune, our team showcased advanced tools addressing Underwater Domain challenges. CAPSTAR officers of the Indian Armed Forces explored our demo area, which featured posters on Digital Transformation, Sediment Management, Climate Change Risk Management and URN Management.

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On January 10, 2025, Lt Gen AK Ramesh, Commandant of CME, visited our demo area during the MILIT event in Pune. During his visit, Dr Das delivered an insightful presentation on critical topics, including UDA, maritime security, the blue economy, marine environment protection, and disaster management.



WORKSHOPS

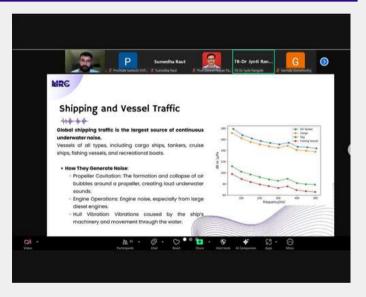


On January 9, 2025, our Deputy Director, Mr. Shridhar Prabhuraman, showcased MRC's Passive Sonar Simulator and SRN models, which our in-house engineering team developed. Durina the demonstrations of the SRN Tool and the Passive Sonar Simulator model. Shridhar emphasised on the nuances and functionality of the tools and how would benefit the maritime community at large.

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2025, **Shridhar** In January Mr. Prabhuraman, delivered an insightful presentation on "Basics of Underwater Acoustics and Management **Underwater Radiated Noise" during** the 'Next Generation Communication' program organised by the Electronic and Telecommunication Engineering Department of S.V.P.M's College of **Engineering, Pune.**

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On January 29–30, 2025, Dr. (Cdr) Arnab Das participated in the 'National Seminar on Andaman and Nicobar Islands: Multidimensional Perspectives,' which was organised by the UGC Centre for Maritime Studies, Pondicherry University, in collaboration with the Indian Council of World Affairs and Indian Council for Social Science Research.

WORKSHOPS

In February 2025, Dr. (Cdr) Arnab Das led a UDA Workshop at O.P. Jindal Global University, Sonipat, Haryana, where he highlighted UDA's four pillars—strategic security, blue economy, climate change risk management, and digital transformation. He also showcased MRC's ongoing research in Marine Spatial Planning, Digital Transformation, and URN Management.



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On March 15, 2025, Dr. (Cdr) Arnab Das led a UDA workshop at South Asian University, New Delhi, where he highlighted the role of UDA in security, environment, and sustainability. He stressed the need for technology and collaboration to safeguard underwater spaces, sparking insightful discussions.

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On February 19, 2025, MRC conducted an online UDA workshop for St. Stephen's College, Delhi University, which was led by Dr. (Cdr) Arnab Das and Ms. J Cathrin. During the workshop, the MRC team covered topics such as geopolitics, submarine navigation, and marine ecosystem impacts.



02

WORKSHOPS



On March 3, 2025, Dr. (Cdr.) Arnab Das participated in a webinar on 'UDA in Coastal India', which was conducted by the Centre for Public Policy Research (CPPR). During the webinar, Dr. Das highlighted the importance of local communities, challenges in digital transformation, and the need for technology-driven solutions to enhance maritime security.

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FUN FACT ABOUT OCEANS



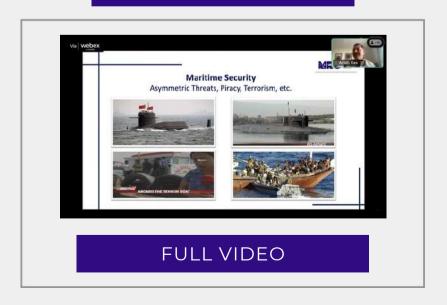


INDIA-PHILIPPINES MARITIME DIALOGUE

February 22, 2025



VIEW REPORT



INDIA-PHILIPPINES MARITIME DIALOGUE

Speakers' Presentations | February 22, 2025



FULL VIDEO



FULL VIDEO



Dr. Shishir Shrotriya Research and Information System for Developing Countries (RIS)

FULL VIDEO



FULL VIDEO



FULL VIDEO



FULL VIDEO



FULL VIDEO



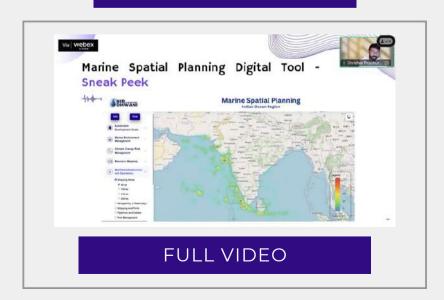
FULL VIDEO

DEMONSTRATION OF THE SHIPPING RADIATED NOISE (SRN) TOOL

March 4, 2025



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DEMONSTRATION OF THE SHIPPING RADIATED NOISE (SRN) TOOL

Speakers' Presentations | March 4, 2025

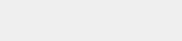


Head of Publications at MRC

FULL VIDEO



FULL VIDEO





Mr. Shridhar Prabhuraman Head, Innovation, NDT

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INDIA - US STRATEGIC MARITIME PARTNERSHIP

March 19, 2025



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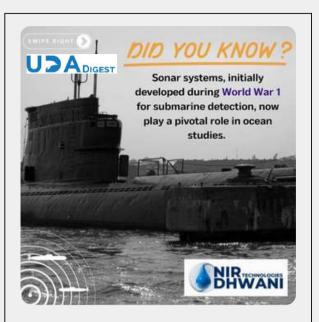


UDA DIGEST ARTICLES



Japan's Deep Dive: Embracing the Underwater Frontier with Partners and

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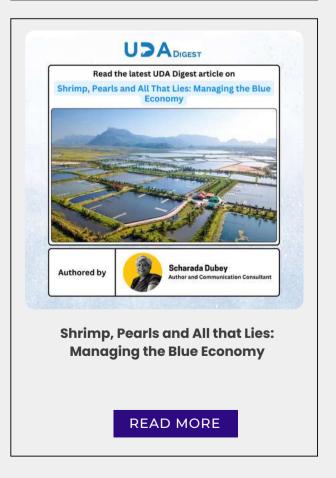


Unravelling acoustic challenges in the Indian Ocean Region

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Biofouling in the Indo-Pacific: A Menace to Shipping



KNOWLEDGE CENTER RESEARCH ARCHIVES



Basics of Climate Risks

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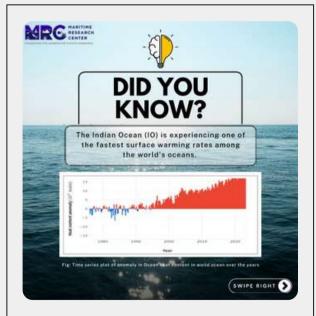
URN Management in Freshwater Systems- Emphasis on Ganga River Dolphins

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Collision avoidance and navigation system using AIS

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Statistical Interface of Climate Change Impact in the Indian Ocean Region

PRESS INTERACTIONS



Dr. (Cdr) Arnab Das on News9: Rising Threats to Undersea Cables & Global Connectivity in February 2025

TUNE-IN NOW



Dr. (Cdr) Arnab Das on News9: China's Deep Sea Cables on 24th March 2025

TUNE-IN NOW





Pondicherry University Hosts National Seminar on 'Andaman & Nicobar Islands: Multidimensional Perspectives'

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Asia Economic Dialogue 2025 Concludes in Pune, Focuses on Economic Resilience Amid Global Fragmentation



Asia Economic Dialogue 2025 Concludes in Pune, Emphasizing Economic Resilience Amid Global Fragmentation

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AED 2025: Sustainable Ocean Management Key to Blue Economy Growth, Say Experts



MEA-PIC Asia Economic Dialogue 2025: Exploring Blue Economy in India's Extended Neighborhood

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MRC VIDEOS



Explaining the UDA Framework

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Annual Report 2024

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Area, Production and Yield (APY) Tool

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2024: Year-end Video

WATCH THE VIDEO

INTERNSHIPS & FELLOWSHIPS



AKASH PRASAD

IIT Bombay Climate Change Risk Assessment



PRADNYA KUMBHARE
IIT Bombay

Acoustic Fingerprinting



MIHIR DARWAN

MRC Intern
Green Shipping

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Membership, Corporate Membership, Academia

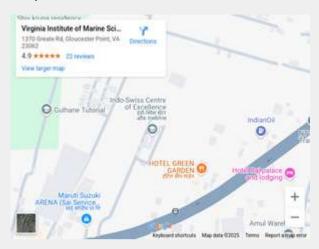
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<u>Map</u>



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Digital Brochure

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