

Happy New Year <sup>2023</sup>

# UDA

UNDERWATER DOMAIN AWARENESS

E-NEWSLETTER

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UDA

Join Us



*Glimpse from the Europe Visit*

Underwater Domain Awareness Quarterly Update

Quarter Four (Oct/Nov/Dec) 2022

## 4TH Quarter at a Glance



**3**  
Webinars



**40+** Esteemed  
Speakers



**500 +**  
Participants



**2 Lac+**  
Social Media  
Reach



**8**  
UDA Digest  
Articles



**200+**  
Internship  
Application

<https://mrc.foundationforuda.in/>

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## Director's Message



**DR (CDR) ARNAB DAS**  
Founder & Director  
MRC, Pune

As the year 2022, comes to an end, it's time to review what we did and what we ought to have done, what we achieved and what we could have achieved and this can go on. I must acknowledge the support, guidance, efforts, blessings, love and more from numerous well-wishers whom we could never thank enough for their contributions to the MRC/NDT growth. The unconditional contribution and association of these individuals/entities are what have been instrumental, in us receiving a remarkable recognition and support from a host of authorities, donors, stakeholders, gen-next and more.

The year 2022 has been remarkable in many ways and it also gave us the biggest shock which we could have ever imagined. Our founding Director and the strongest pillar of our leadership team Late Mrs. Indrani B Das (Rashmi for all of us), suddenly left us for her heavenly abode on 05 June 2022. She has been the architect of the value system that MRC/NDT has built over the years and her unassuming backend work, which were so vital for our growth will forever be missed. Her stellar contribution to the strategy formulation and unwavering watch on the value system will always motivate us to take MRC/NDT to the next level.

Now it's time to recognize the main pillars of our exceptional momentum, starting with Mr. Shridhar Prabhuraman, who continues to charge from the rear and keep pushing us forward. He is in full control of the entire MRC/NDT circuit board. Ms. Divya Nagarajan, who is always there to stitch every loose end. Ms. Nistha Vishwakarma, who has picked up the understanding of a complex entity in a short time and dressed us well to look good. Pranil, the techie, has always been the controller of our systems. Ananya and Catherine are new entrants into the team, but seem to be charging ahead with high speed. We would like to welcome Yukti, Aradhya, Rishika and Noah into the team and recognize their abilities to take us to the next level. Of course our partner's Wide-eyes, led by Mr. Prathamesh and ably supported by Prachi, Mehul and Mouktik. My friend Mr. Manas Dewan cannot be left behind for his continued support and guidance on all strategic and creative matters. Last but not the least, I would like to acknowledge the contributions made by Praful Ji, who will continue to remain my all weather adviser and mentor. His ability to break down everything into its components, makes it easy to appreciate the dynamics. Our advisers, mentors and experts need special mention for their continued blessings and guidance on all matters. The list of well-wishers and unsung heroes is long and now is growing at an exponential rate. We can never thank them enough for their love and considered advice. Shri Mukesh Malhotra, Chairman Weikfield Group and Shri Ashwin C Shroff, Chairman Excel Industries Ltd, deserve special mention for their personal and corporate investment in the UDA framework. They have invested significant amount of time to understand the entire UDA framework and then extended unconditional support. Means a lot for a small entity, trying to punch far above its weight category.

Happy New Year 2023.

Regards  
Dr(Cdr) Arnab Das  
Founder & Director  
Maritime Research Centre (MRC), Pune

# 01 WEBINARS

**Underwater Domain Awareness (UDA) Framework for Effective Blue Frontiers in the Indo-Pacific Strategic Space**



**29 Sept 2022**

**Underwater Domain Awareness (UDA) Framework for Effective Internal and Coastal Security in the Indo-Pacific**



**05 Oct 2022**

**Commemorating the 1st International Day for Biosphere Reserves**



**03 Nov 2022**

# 02 RESEARCH ARCHIVES

**Vessel path prediction IWT**



**Vessel path prediction IWT**

[Click to Know more](#)

**Collision Avoidance In Inland Waterways by using AIS DATA**

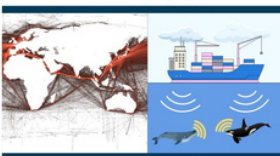


Collision Avoidance In Inland Waterways by using AIS DATA

**Collision Avoidance In Inland Waterways BY USING AIS DATA**

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**3D mapping of Low frequency ambient shipping noise**



**3D mapping of Low frequency ambient shipping noise**

[Click to Know more](#)

**Identification of the Noise Hotspots for Marine Mammals in the IOR**



**Identification of the Noise hotspots for Marine mammals in the IOR**

[Click to Know more](#)



## 03 MRC UPDATES/ IMPORTANT INTERACTIONS

**MRC & the Indo Swiss Centre of Excellence (ISCE) hosted a joint event to sign a MoU.**



The signing of the MoU will mark the beginning of a new concept of skilling in the country and the region.

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**IDr (Cdr) Arnab Das called on His Excellency Santosh Jha**



Dr (Cdr) Arnab Das called on HE Santosh Jha, Ambassador of India to Belgium & EU. They discussed multiple aspects of the UDA Framework and its relevance to the EU and the larger geopolitical implications.

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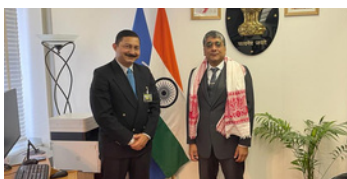
**Interaction with Director-General, MARE, EU Charlina Vitcheva**



Dr. Das discussed the Marine Spatial Planning (MSP) with the EU DG MARE officials. They appreciated the UDA Framework and its relevance to the larger tropical Indo-Pacific region.

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**Dr (Cdr) Arnab Das called on His Excellency Vishal Sharma**



Dr (Cdr) Arnab Das called on HE Vishal Sharma, India's Permanent Representative at UNESCO, in Paris at his office. HE Vishal Sharma found value in encouraging the MRC-UNESCO partnership to progress the UDA framework, which has been designed by the MRC

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**Dr (Cdr) Arnab Das participated in the High Level Panel**



Dr (Cdr) Arnab Das participated in the High Level Panel on Hydro-Diplomacy during the 'World Water for Peace Conference' held in Paris.

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**Dr (Cdr) Arnab Das visited UNESCO Headquarters in Paris, France**



Dr (Cdr) Arnab Das visited UNESCO Headquarters in Paris, France to hold discussions regarding MRC's ongoing collaboration with UNESCO India on establishing a Centre of Excellence and more.

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### Interaction with Dr. Vladimir Ryabinin



Dr (Cdr) Arnab Das visited UNESCO Headquarters in Paris, France. Dr. Das held discussions with the Executive Secretary of the Unesco - Intergovernmental Oceanographic Commission (IOC), Dr. Vladimir Ryabinin.

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### Interaction with Dr. Danijel Mlinarić



Our Founder and Director Dr. (Cdr) Arnab Das recently met Dr. Danijel Mlinarić, Director of Center for Economic Diplomacy during his tour to Croatia.

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### Dr (Cdr) Arnab Das called on His Excellency Mr. Amb Raj Kumar Srivastava



Our Founder and Director Dr. (Cdr) Arnab Das called on His Excellency Mr. Amb Raj Kumar Srivastava, India's Ambassador to Croatia, during his tour to Croatia.

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### Dr. (Cdr) Arnab Das spoke at an event organized by FICCI FLO, Pune



Dr. (Cdr) Arnab Das spoke at an event organized by FICCI FLO, Pune on 7th October 2022 on the very important topic of- "The Underwater Domain Framework & the Impact on Sustainability & Environmental, Social & Corporate Governance ( ESG )

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### Interaction with Students at the Sungrace High School, Pune



On the occasion of World Maritime Day, Our Founder & Director, Dr (Cdr) Arnab Das personally interacted with students at the Sungrace High School, Pune, about the wonders of the Underwater Domain and what it means for our country, as the children asked pertinent questions.

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### Interaction with Dr. Ralf Heckner



MRC's Indo-Swiss Center of Excellence for Skilling in Underwater Domain had the honour of hosting the Honourable Ambassador of Switzerland to India, His Excellency Dr. Ralf Heckner along with Council General Mr. Martin Maier.

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### Europe Tour Report



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# 04 INTERNSHIP & FELLOWSHIP



**Bhumika Ganesh Kabadi**  
MRC Intern



**Noah Shinde**  
MRC Fellow



**Cathrine J**  
MRC Fellow



**Rishika Khanna**  
IIT Delhi  
Sediment-Management-for-UDA-Framework



**Ananya Mailk**  
MRC Research Associate,  
Brahmaputra



**Yukti Sharma**  
TERI School of Advanced Studies  
Framework For Water Quality Management in India: A holistic approach to different sectors issues.

# 05 FORTNIGHTLY ARTICLES

**TheSundayGuardian**

US National Security Strategy has ramifications for Indo-Pacific's underwater domain

**US National Security Strategy has ramifications for Indo-Pacific's Underwater Domain**

**TheSundayGuardian**

SERIOUS EFFORTS NEEDED TO MANAGE UNDERWATER NOISE

**Serious efforts needed to manage underwater noise**

**सकाळ**

सागरी सुरक्षेचा 'सेतू'

**Sagari Suraksha Setu**

**geopolitics**

INDIAN NAVY @ 100

**Indian Navy @ 100**



# 06 VIDEOS

**G20 and Underwater Domain Awareness (UDA) Framework**

[Watch](#)

**INDIA@75 & Underwater Domain Awareness (UDA)**

[Watch](#)

**US National Security Strategy has ramifications for Indo-Pacific's Underwater Domain**

[Watch](#)

**The Indian Ocean Region (IOR) and the Underwater Domain Awareness (UDA) Framework**

[Watch](#)

# 07 UDA DIGEST

**Buzzing Alarm to work towards Marine Sustainability**

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**Skilling in India and beyond - A New Perspective Based on the Underwater Domain Awareness (UDA) Framework**

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**Water Quality Management Framework with sectoral approach for India**

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**Extreme weather conditions around the world are a result of climate change; How India and others are gearing up?**

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**Water Quality Management - A New Perspective based on the Underwater Domain Awareness (UDA) Framework**

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**Fresh water management: Introduction to the domain (A UDA perspective)**

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**Hydropower race and dispute resolution in Indus' western rivers**

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**Underwater Domain Awareness (UDA): A ROAD LESS TRAVELLED AND FATHOMED**

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# 08 GET IN TOUCH WITH US

## Contact Information

Address: 102 Cordia, Nyati Estate, Mohammedwadi, Pune- 411060  
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## Social Connect



## Map



## Join Us

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[Academia Membership, Internship, Fellowship and Research](#)

## UDA\*

The conventional approach of each of the stakeholders pursuing their own UDA\* efforts has serious limitations given the highly resource intensive field experimental research initiative required for a long period. [Click here for more](#)

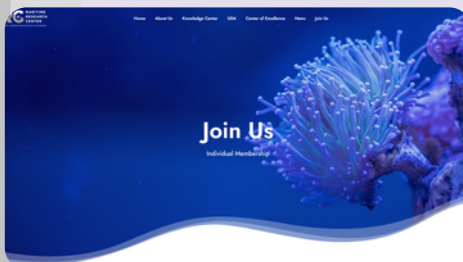
## Support MRC Initiatives



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## JOIN US

[Students | Professionals  
Mentors | Patrons](#)



[Individual Membership](#)

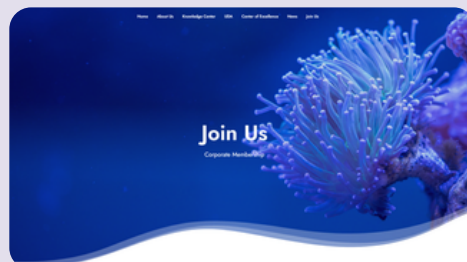
## Checkout our Digital Brochure



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