



Maritime Domain Awareness

Definition

Effective understanding of anything associated with the maritime domain that could impact the security, safety, economy, or environment.

In other words...MDA enables the Nation-State to provide better governance of their maritime environment by improving information-sharing on threats to the maritime economy, environment, safety, and national security.



Maritime Domain Awareness

MDA Goals

- Protect population centers and critical infrastructure.
- Prevent terrorist and criminal, harmful, or hostile acts.
- Quickly recover the maritime transportation system and related infrastructure in the wake of man-made or natural disasters.
- Maintain unimpeded access to global resources and markets.
- Safeguard the oceans and environmental resources.





Maritime Domain Awareness

USASEAN MDA Objectives:

- Enhance Transparency: Identify, promote, and **develop existing ASEAN MDA collaboration efforts.**
- Promote Information Sharing and Safeguarding: Advance mutually shared MDA interests and strategic goals, including **promoting confidence building measures, strengthening institutional capacity, and enhancing coordination/cooperation** across the maritime security sector.
- Further Maritime Partnerships: Promote and facilitate MDA **information sharing, safeguarding, capacity building, and integration.**
- Regional Order Based on International Law: Protect and promote safe and secure freedom of navigation and over-flight, while promoting the **lawful, continuous, and efficient flow of commerce.**



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Examples of MDA within ASEAN:

- National and Regional Information Sharing Centers: Singapore IFC, ReCAAP, Thai-MECC, Philippines Coastwatch, Vietnam Maritime Regional Coordination Center, and others can serve as the backbone for an information sharing architecture.
- Information Sharing Systems: Advances in technology provide for better awareness vessel locations, crews and passengers, cargo, and activities.
- Science and Technology: Collaboration by Government and Non-Government Organizations with the Scientific Community to merge technology and environmental research.
 - The National Oceanic and Atmospheric Administration is an example of how weather tracking technology is made available for free and can be used to help detect IUU night fishing In Southeast Asia.

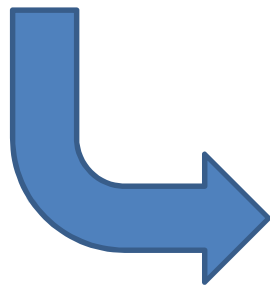


Visible Infrared Imaging Radiometer Suite (VIIRS)

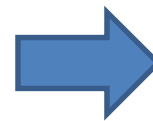




Algorithms run on images, output points, vast data volume reduction



VIIRS day/night
band (DNB)
nighttime
image data



Boat detection
data (points)

