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Conference Paper

MARITIME SECURITY COOPERATION CHALLENGES IN THE FUTURE

Sudarshan Y. Shrikhande

Australian National Centre for Ocean Resources and Security, University of
Wollongong, Australia

Abstract.

Maritime cooperation encompasses longstanding complexities alongside evolving opportunities, stemming from the intrinsic nature of the maritime commons governed by international law, particularly the United Nations Convention on the Law of the Sea (UNCLOS). Throughout history, states have engaged in collective efforts to maintain order at sea, combat piracy, suppress the slave trade, and enhance navigational safety. Despite enduring constraints in communication, limited resources, and geopolitical frictions, maritime security collaboration has experienced notable progress, particularly during periods of crisis. Wartime conditions alter the dynamics of inter-state cooperation, whereas peacetime arrangements often strengthen resilience and improve collective crisis responses. The 2004 Indian Ocean tsunami marked a pivotal shift in regional collaboration, particularly in disaster relief and maritime safety operations. Current maritime threats, including piracy, terrorism, organised crime, and sovereignty disputes in the South China Sea, require comprehensive multilateral mechanisms. ASEAN-led initiatives and frameworks developed by the Quad have contributed to closing coordination gaps, fostering transparency, and reinforcing adherence to a rules-based international system. The Wilmington Declaration by the Quad and ASEAN's 2023 joint statement illustrate continued momentum in reinforcing regional maritime cooperation. Future challenges spanning maritime, space, and cyber domains necessitate sustained multilateral engagement to uphold regional security, advance human development, and reinforce shared resilience.

Keywords: cyber security, freedom of navigation, maritime conflict, UNCLOS

Corresponding Author:

Sudarshan Y. Shrikhande
Email: sudarshan.shrikhande@gmail.com

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Introduction

Challenges and opportunities frequently emerge in tandem, particularly within maritime cooperation, as demonstrated consistently over the past several centuries⁽¹⁾. These dynamics stem from the unique character of the maritime commons, a vast domain where sovereignty and navigational freedoms are delineated by international legal instruments, especially the United Nations Convention on the Law of the Sea/UNCLOS ⁽²⁾. Collaborative efforts to uphold mutual security and maritime order have persisted for more than two hundred years. States have engaged in joint action to combat piracy, eradicate the slave trade, and enhance navigational safety, particularly in response to maritime disasters including the sinking of the Titanic. Nevertheless, cooperation has continually encountered structural impediments, including communication barriers, limited resources, and geopolitical rivalries.

Literature Review

Theoretical Studies

Maritime security changes dramatically during times of conflict ⁽²⁾. The contours of cooperation shift in wartime, and partnerships built during peacetime often help prevent conflict or assist during crises. Referring to historical examples, both World Wars, during which the United States, even when not an early belligerent, supported its allies indirectly, indicating the importance of peacetime cooperation in ensuring readiness for conflict ⁽³⁾.

Empirical Studies

The spirit of maritime cooperation in recent decades, pointing to significant progress in overcoming challenges and fostering opportunities. The 2004 tsunami marked a turning point in maritime security cooperation, where nations came together for search and rescue, disaster relief, and infrastructure resilience ⁽⁴⁾. This event led to improved earthquake and weather warning systems and more comprehensive thinking on disaster preparedness. Other developments, such as piracy, terrorist attacks, organised crime, and tensions in the South China Sea further pushed nations to strengthen maritime cooperation ⁽²⁾.

A study by Bateman examined the increasing challenges to freedom of navigation, particularly as China appears to be asserting extraterritorial claims ⁽⁵⁾. Gaps in maritime coordination have been addressed by groupings like ASEAN, which led the way in setting up information fusion centres to share data on ship movements and port security. Shrikhande emphasised the importance of initiatives like the resurgent Quad dialogue, which promotes public goods and emphasises adherence to rules-based

international order (2). The Quad's focus on maritime security, cyber resilience, and human security further demonstrated commitment to regional stability (6). The recent Wilmington Declaration, which reaffirm the Quad' commitment to transparency, regional leadership, and tackling illegal fishing, while improving food security. The Quad's pledge to uphold multilateralism and the rule of law, as seen in the ASEAN Declaration of October 2023. Shrikhande suggest for ASEAN, IORA, PIF, and the Quad to collaborate in maintaining freedom in the Indo-Pacific, while tackling shared challenges (2).

Methods

This study adopts a qualitative content analysis approach, defined as a research technique for drawing replicable and valid inferences from texts in relation to their contextual use (7). The method facilitates a systematic examination of policy documents, institutional reports, and scholarly literature concerning maritime security cooperation challenges.

The data sources comprise international documents, institutional reports, and peer-reviewed publications released within the last decade. The selection criteria emphasise relevance to the maritime, space, and cyber.

The unit of analysis focuses on multilateral cooperation between forums like ASEAN, IORA, PIF, and the Quad. The study was conducted over a year period, and data credibility was ensured through source triangulation and cross-verification with expert-reviewed publications.

Results and Discussion

The interconnected nature of maritime trade, digital services, and submarine cables are vital for global communications (2), that highlight the importance of securing these networks from both natural and human-made threats, in which ASEAN and PIF have implemented proactive steps toward cyber security and resilience (8). Despite challenges like technical protocols and cyber hardening, the Quad is investing in cyber fellowships and training, with a goal of improving coordination with ASEAN and PIF (2).

Efforts to enhance port security and efficiency are essential for maintaining the smooth flow of trade (2). ASEAN has demonstrated leadership in this area, as reflected in the existence of 523 international seaports across member states and ongoing progress in implementing regional action plans (9). In parallel, the Quad has announced the "Ports of the Future" partnership, aimed at promoting sustainable and resilient port infrastructure through collaboration with regional partners (10). Port security presents significant complexity due to the diversity of ownership structures and the increasing prevalence of cyber threats, underscoring the

necessity of interorganizational cooperation. Additionally, there is a growing regional emphasis on addressing climate change, particularly its effects on archipelagic and coastal populations in the Indo-Pacific. The Quad's Climate Change Adaptation and Mitigation Package (Q-CHAMP) serves as a key example of collaborative initiatives designed to tackle environmental challenges while simultaneously fostering economic opportunities (11).

Creating employment in the maritime sector is a critical priority, particularly for countries within ASEAN, the Indian Ocean Rim Association (IORA), and the Pacific Islands Forum (PIF) (2). Regional forums play an essential role in generating job opportunities across key sectors such as trade, port operations, and sustainable fishing. Additionally, there is a pressing need to strengthen partnerships aimed at combating drug trafficking, terrorism, and organized crime along maritime routes. Initiatives such as the Colombo Security Conclave, which fosters cooperation in the Indian Ocean, and ASEAN's work plan to combat illicit drugs, exemplify effective regional coordination (12). These partnerships must remain adaptive and responsive to emerging security threats in the maritime domain (2).

Conclusion

In conclusion, the maritime, space, and cyber commons will continue to pose challenges, but also provide opportunities for increased cooperation between organisation and forums like ASEAN, IORA, PIF, and the Quad. Through multilateral cooperation, these commons can contribute to human development, resilience, and the overall good of humanity.

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