



MAKING WAVES

A maritime news brief covering:

- **MARITIME SECURITY**
- **MARITIME FORCES**
- **SHIPPING, PORTS AND OCEAN ECONOMY**
- **MARINE ENVIRONMENT**
- **GEOPOLITICS**

EDITED BY:

Cmde Debesh Lahiri

execdir.nmf@gmail.com

Sreoshi Sinha

indopac4.nmf@gmail.com

CONTENTS

| | |
|--|----|
| MARITIME SECURITY | |
| AUKUS and Its Implications on Maritime Security | 2 |
| Strengthening Indian Ocean Maritime Security Through The Colombo Security Conclave | 2 |
| Micronesian maritime security enhanced | 2 |
| Maritime security: Nigeria, 31 nations in joint military drill | 3 |
| MARITIME FORCES | 3 |
| Israel’s deputy army chief, other top commanders arrive in US for security talks | 4 |
| US and German ships conduct interoperability exercise in Baltic Sea | 4 |
| Russian strike on base brings Ukraine war close to NATO's border | 4 |
| Russia-Ukraine War: UN Chief Warns of Global Food System 'Meltdown' | 5 |
| German and American Navies Bolster Deterrence in the Baltic Sea | 5 |
| SHIPPING, PORTS AND OCEAN ECONOMY | 6 |
| Maritime industry must establish own decarbonisation milestones | 6 |
| Several NATO Vessels Make Port Calls in Trondheim | 7 |
| Kenya Develops Comprehensive Maritime Strategy to Harness Blue Economy | 7 |
| MARINE ENVIRONMENT | 7 |
| Embracing sustainability via data | 8 |
| Emission-Free Fuel Cell Drives from Proton Motor for Maritime Mobility | 8 |
| Maritime Area Planning Act commences in part | 9 |
| GEOPOLITICS | 9 |
| NATO's 2 closest partners doing some hard thinking about alliance after Russia's attack on Ukraine | 9 |
| Russian Navy conducts missile strikes, blocks Ukraine’s Black Sea coast | 9 |
| The New Geometry of India’s Foreign Policy | 10 |
| ACKNOWLEDGEMENTS | 11 |

MARITIME SECURITY

AUKUS and Its Implications on Maritime Security

Scholars and practitioners of maritime security keep a close eye on changes on the high seas. Because geopolitical conceptualization has become a significant component of marine security, its reach has expanded. "The geopolitical dimension of maritime security accounts for the way geography constraints and informs (directly or indirectly) maritime security policies, regulations, measures, and operations, as well as how states take (tacitly or explicitly) geography into account when developing their maritime security strategies," Germond correctly observes. Thus, the logic of the geographic world defines opportunities and restrictions in the oceans, which have a direct impact on regions and state behaviour.

Source: [*AUKUS and Its Implications on Maritime Security / Geopolitical Monitor*](#) 15 March, 2022

Strengthening Indian Ocean Maritime Security Through The Colombo Security Conclave

The sixth meeting of the Colombo Security Conclave's National Security Advisors (NSA) in the Maldivian capital of Malé will be remembered for the entrance of Mauritius as a full member and the continuation of Bangladesh and Seychelles as observers, both of which are expected to sign in due time. As can be seen, the meticulously constructed incremental stages from its inception in 2011 have brought the multinational regional agreement thus far, culminating in a significant name change from "Maritime Security Agreement" to "Maritime And Security Agreement" during the preceding Colombo Session in 2020.

Source: [*Strengthening Indian Ocean Maritime Security Through The Colombo Security Conclave \(news18.com\)*](#) 12 March, 2022

Micronesian maritime security enhanced

At a handover ceremony today in Henderson, Western Australia, the Federated States of Micronesia (FSM) received the first of two Guardian-class Patrol Boats provided via the Pacific Maritime Security Program. His Excellency President David W. Panuelo of the Federated States

of Micronesia and Assistant Minister for Defence, the Hon Andrew Hastie MP, both hailed the transfer, which demonstrates the closeness of the partnership, shared values, and a vision for the region. "The people and government of Australia are not just a partner, but also a close friend of ours." "I reiterate our country's commitment to our alliance with Australia, and I ask Australia to maintain its efforts to promote Indo-Pacific peace, stability, and security," President Panuelo stated.

Source: [Micronesian maritime security enhanced | Department of Defence Ministers](#) 11 March, 2022

Maritime security: Nigeria, 31 nations in joint military drill

On Friday, the Nigerian Navy announced the deployment of 10 vessels and two helicopters in a combined international maritime exercise with 31 other foreign fleets. The drill, dubbed "Obangame Express 2022," was started by the Chief of Naval Staff, Vice Adm. Awwal Gambo, in Onne, Eleme Local Government Area of Rivers, according to the News Agency of Nigeria.

Source: [Maritime security: Nigeria, 31 nations in joint military drill \(punchng.com\)](#) 11 March 2022

India, Sri Lanka explore slew of maritime security agreements for Indian Ocean Region

In order to defend its strategic interests in the Southern Indian Ocean area in the face of China's rising advances, New Delhi is pursuing a series of maritime security agreements with Colombo that will bolster India's interests, notably near the eastern Trincomalee harbour.

Source: [India, Sri Lanka explore slew of maritime security agreements for Indian Ocean Region - The Economic Times \(indiatimes.com\)](#) 10 March 2022

MARITIME FORCES

Russian naval forces have blockaded Ukraine's Black Sea coast, say UK officials

According to the British Ministry of Defence, Russia has blockaded Ukraine's Black Sea coast, cutting it off from maritime trade and transit. The Russian military have also landed in the

adjacent Sea of Azov and are expected to proceed deeper in the coming week, according to the statement.

Source: [Russian naval forces have blockaded Ukraine's Black Sea coast, say UK officials | The Independent](#) 15 March, 2022

Israel's deputy army chief, other top commanders arrive in US for security talks

Kelman and IDF Chief of Staff Aviv Kohavi visited Bahrain last week to meet with Bahraini state and defence officials as well as US military officials at the US Naval Forces Central Command, the US Navy's Fifth Fleet, and the Combined Maritime Forces headquarters. According to reports, Kohavi also met with his Qatari counterpart on his tour to discuss cooperation and the prospect of the Gulf state joining a regional alliance to fight Iran's aggressiveness in the area. Qatar's relations with Israel have not been repaired.

Source: [Israel's deputy army chief, other top commanders arrive in US for security talks | The Times of Israel](#) 14 March, 2022

US and German ships conduct interoperability exercise in Baltic Sea

The US Navy and the German Navy have conducted a bilateral maritime interoperability exercise in the Baltic Sea to promote security and stability. The US Navy's Arleigh Burke-class destroyers, USS Forrest Sherman (DDG 98), USS Donald Cook (DDG 75), and the German Navy's Sachsen-class air-defence frigate FGS Sachsen took part in the exercise (F219). The US Navy destroyers DDG 98 and DDG 75 exercised cooperation and communication with the German frigate during the exercise.

Source: [US and German ships conduct interoperability exercise in Baltic Sea \(naval-technology.com\)](#) 14 March, 2022

Russian strike on base brings Ukraine war close to NATO's border

On Sunday, a barrage of Russian missiles targeted a big Ukrainian facility on the border with NATO member Poland, killing 35 people and injuring 134, according to a local official, in an escalation of the battle to the country's west while violence raged elsewhere. According to Russia's defence ministry, the air attack destroyed a substantial number of weaponry provided by foreign nations and housed inside the extensive training complex, as well as killing "up to

180 foreign mercenaries."

Source: [Russian strike on base brings Ukraine war close to NATO's border / Reuters 14 March, 2022](#)

Russia-Ukraine War: UN Chief Warns of Global Food System 'Meltdown'

Following Russia's invasion of Ukraine, UN Secretary-General Antonio Guterres warned on Monday that the world must act to avoid a "storm of famine and a collapse of the global food system." The secretary-general warned reporters in New York that the war risks having far-reaching effects for the global food supply, with tragic consequences for the poorest. "This conflict extends well beyond Ukraine. It is also an attack on the most vulnerable people and countries on the planet "According to Guterres.

Source: [Russia-Ukraine War: UN Chief Warns of Global Food System 'Meltdown' / Asharq AL-awsat \(aawsat.com\) 14 March, 2022](#)

German and American Navies Bolster Deterrence in the Baltic Sea

A pair of US Navy destroyers recently joined a German frigate in the Baltic Sea for "division tactics, manoeuvring drills, flying operations, and communication exercises," according to a US Navy news statement. The drills, albeit brief, come at a critical juncture in Europe's history. The USS Forrest Sherman and USS Donald Cook, two Arleigh Burke-class guided-missile destroyers of the US Navy, joined the FGS Sachsen, a German Navy Sachsen-class air-defence frigate. The German frigate has a sophisticated design that integrates stealth elements and is meant to thwart an opponent's acoustic detection skills and radar. The two American ships are part of the US Navy's sixth fleet, which is based in Naples, Italy.

Source: [German and American Navies Bolster Deterrence in the Baltic Sea / The National Interest 13 March, 2022](#)

SHIPPING, PORTS AND OCEAN ECONOMY

Maritime industry must establish own decarbonisation milestones

Because of its enormous impact on the overall operation of global supply chains, maritime transportation is one of the most essential nodes in international trade. On the other side, the abundance of shipping traffic and maritime trade has a substantial negative influence on the marine environment and human health. According to statistics from the United Nations Conference on Trade and Development, the global commercial fleet increased by 63 million deadweight tonnes between January 2021 and January 2022. Petroleum-based fuel accounts for the vast bulk of fuel used in marine transportation.

Source: [Maritime industry must establish own decarbonisation milestones / Hellenic Shipping News Worldwide](#) 15 March, 2022

Blue Economy: oceans as the next great economic frontier

40 percent of the world's population lives in coastal areas, more than 3 billion people rely on the oceans for a living, and the seas account for 80 percent of global trade. The oceans, seas, and coastal areas all help to improve food security and poverty alleviation. Nonetheless, human activities pose a serious threat to the seas, with economic gain coming at the price of environmental damage. Acidification, pollution, ocean warming, eutrophication, and fisheries failure are just a few of the effects on marine ecosystems. These risks are harmful to the globe and have long-term consequences, necessitating immediate action to safeguard the seas and the people who rely on them.

Source: [Blue Economy: oceans as the next great economic frontier \(unric.org\)](#) 14 March, 2022

Shipping Industry and Ports Susceptible to Billions of Dollars in Damage, Disruption from Climate Change

According to a recent analysis, the worldwide shipping and port industry is vulnerable to billions of dollars in infrastructure damage and trade disruption as a result of climate change consequences. "Act Now or Pay Later: The Costs of Climate Inaction for Ports and Shipping," written by RTI International, a nonprofit research institution, for the Environmental Defence Fund (EDF), investigates data on climate-related calamities and forecasts the cost of future losses to the sector. Climate change impacts might cost the shipping sector up to \$25 billion per year by the end of the century unless aggressive action is taken to cut emissions.

Source: [Shipping Industry and Ports Susceptible to Billions of Dollars in Damage, Disruption from Climate Change | Environmental Defence Fund \(edf.org\)](#) 14 March, 2022

Several NATO Vessels Make Port Calls in Trondheim

Norway provides a fantastic training ground for our partners, and numerous NATO ships have been exercising in Norwegian seas in recent weeks. Both the Standing NATO Maritime Group 1 (SNMG1) and the Standing NATO Mine Countermeasures Group 1 (SNMCMG1) have arrived to prepare for Cold Response 22. This weekend, SNMG1 and SNMCMG1 will dock in Trondheim. SNMG1 will arrive Thursday morning, followed by SNMCMG1. For several weeks, the warships in SNMG1 have been training in Norwegian waters. First, in the Bergen region, in the exercise Arctic Dolphin, and later in Skagerrak, in the exercise Dynamic Guard. They are now travelling north for Cold Response 22.

Source: [Several NATO Vessels Make Port Calls in Trondheim – SeaWaves Magazine](#) 11 March, 2022

Kenya Develops Comprehensive Maritime Strategy to Harness Blue Economy

The national government has begun formulating a national marine security plan to address maritime security problems in order to strengthen efforts to capitalise on the Sh500 billion blue economy. A high-level strategic policy framework and common vision for defending a country's maritime domain, including its ports and territorial waterways, is meant to give birth to the national maritime security committee and the national maritime security risk registry. Kevit Desai, Principal Secretary of the State Department for the East African Community, noted that the national maritime security policy has been prepared for efficient coordination and control of risks and hazards in the marine sector.

Source: [Kenya Develops Comprehensive Maritime Strategy to Harness Blue Economy - allAfrica.com](#) 08 March, 2022

MARINE ENVIRONMENT

Embracing sustainability via data

The maritime industry's ESG credentials are increasingly being scrutinised by stakeholders such as financial institutions, operational partners, and end users, making it vital to collect relevant data, says Kelly Duarte of Orbcomm. Over the last decade, the word "sustainability" has progressed from idea to measure, with a growing number of key stakeholders (such as financial institutions and governments) making it essential for corporations to provide Environmental, Social, and Governance (ESG) data. Although environmental, social, and governance (ESG) metrics are a relatively new concept in the shipping world, gathering and publishing these metrics will be critical to securing the millions of dollars required to fuel the technological innovation required to decarbonize, digitalize, and recover from the COVID-19 pandemic.

Source: [Embracing sustainability via data - Splash247](#) 15 March, 2022

Emission-Free Fuel Cell Drives from Proton Motor for Maritime Mobility

Proton Motor Fuel Cell GmbH, Europe's leading hydrogen fuel cell manufacturer, allows ship and marine manufacturers to deploy climate-neutral fuel cell propulsion systems for the inland and offshore sectors. The firm specialises in "Made in Germany" modular systems and employs graphitic bipolar plates since only these match the technical and commercial performance criteria of the applications.

Source: [Emission-Free Fuel Cell Drives from Proton Motor for Maritime Mobility \(maritime-executive.com\)](#) 14 March, 2022

Keep it Clean

Water treatment firms are focusing on enhancing the purity of wastewater discharge and the effectiveness of different treatment solutions as the marine sector becomes more aware of its environmental duties. The seas cover more than two-thirds of the earth's surface, a statement that has nearly become a cliché. The availability of saltwater, as the omnipresent medium through which boats pursue their business aims, makes it especially easy to ignore as an important resource. However, its use on board ships is so widespread that salt water has become essential for day-to-day operations.

Source: [Keep it Clean \(maritime-executive.com\)](#) 13 March, 2022

Maritime Area Planning Act commences in part

The Maritime Area Planning Act (the MAP Act) went into effect on March 10, 2022. The following provisions of the MAP Act are currently in effect: Part four is devoted to the new Maritime Area Consent (MAC) regime. A MAC is a type of state consent that permits the occupancy of a certain portion of the marine region. It also functions as a "gateway" into the development approval system. Once created, the new Maritime Area Regulatory Authority (MARA) will be in charge of MACs. Part 4 has transitional provisions that allow the Minister for Environment, Climate, and Communications to invite MAC applications for "exceptional MAC instances" for the time being.

Source: [Maritime Area Planning Act commences in part - Lexology](#) 14 March, 2022

GEOPOLITICS

NATO's 2 closest partners doing some hard thinking about alliance after Russia's attack on Ukraine

Finland and Sweden are concerned about Russia's invasion of Ukraine. Finland has a 1,335-kilometre border with Russia, while Sweden overlooks major marine routes via the Baltic Sea. While Russia has not directly attacked either nation since its February 24 incursion, Moscow's actions have sparked discussion in those countries about their security, including whether they should pursue NATO membership at all.

Source: [NATO's 2 closest partners doing some hard thinking about alliance after Russia's attack on Ukraine \(businessinsider.co.za\)](#) 15 March, 2022

Russian Navy conducts missile strikes, blocks Ukraine's Black Sea coast

According to the UK Ministry of Defence, Russian naval troops have created a remote blockade of Ukraine's Black Sea coast while continuing to launch missile attacks across the nation. As previously stated, the obstruction has effectively cut Ukraine off from international marine trade. In addition, the Russian Navy has previously carried out one amphibious landing in the Sea of Azov. These moves, according to the officials, might be repeated in the future. To recall, the Federal Agency for Maritime and River Transport (Rosmorrechflot) reported last month that shipping in the Sea of Azov had been banned following a warning from the Russian Defence Ministry.

Source: [Russian Navy conducts missile strikes, blocks Ukraine's Black Sea coast - Naval](#)

Today 14 March, 2022

The New Geometry of India's Foreign Policy

India's foreign policy is being put to the test in terms of options and partners in the international system. Such a conflict between autonomy and involvement is not new in India's relations with the rest of the world. However, the current situation in Ukraine, as well as the profound splits it has caused in the international community, raises new concerns about India's foreign policy.

Source: [The New Geometry of India's Foreign Policy – The Diplomat](#) 14 March, 2022

ACKNOWLEDGEMENTS

‘Making Waves’ is a compilation of maritime news and news analyses drawn from national and international online sources. Drawn directly from original sources, minor editorial amendments are made by specialists on maritime affairs. It is intended for academic research, and not for commercial use. NMF expresses its gratitude to all sources of information, which are cited in this publication.

Cover Designed by Gayathri Rajesh, NMF Intern.

