

The Authors (according to the order of the chapters)

Shaul Chorev (Chapters: Global Developments in the Maritime Domain; Summary of the Strategic Evaluation and Policy Recommendations). Professor Shaul Chorev, Rear Admiral (Ret.) served as the commander of the submarine fleet, commander of the missile boat fleet and the assistant commander of the Navy. During the period 2007–15, he was the head of the Atomic Energy Commission and was also responsible for the Special Weapons Branch in the Ministry of Defense. He has a doctorate from Bar Ilan University and is currently the Director of the Maritime Policy & Strategy Research Center at Haifa University.

Eyal Pinko (Chapter: The Naval War against the Houthis in Yemen). Eyal Pinko served for twenty-three years in the Israeli navy in a varies operational as well as intelligence positions and managed complex technological development projects. Eyal served another five years in a senior position in the defense establishment. Eyal was awarded the 'Chief of Staff Award', the 'Creative Thinking Award', the 'Israel Defense Award'. Eyal holds a BA in Electrical Engineering with honors, And two MA degrees with honors in political science and organizational consulting, He is a PhD candidate in political science (Asymmetrical warfare) and a fellow researcher at the Haifa Center for Maritime Policy and Strategy.

Eyal Hayut (Chapter: Strategic Implications of China's "Belt and Road" Initiative in the Eastern Mediterranean and the Red Sea for Israel and its Allies). has a BA in International Relations from the Hebrew University and an MA in History and Philosophy of Science and Ideas from Tel Aviv University; He served as Assistant Director of External Relations at the Atomic Energy Commission and as Academic Secretary of the Hudson-Haifa Joint Committee on the Eastern Mediterranean.

Ehud Gonen (editor and producer of the Maritime Strategic Evaluation for Israel – 2018/19; Chapters: Strategic Implications of China's "Belt and Road" Initiative in the Eastern Mediterranean and the Red Sea for Israel and its Allies; Developments in the Construction of Artificial Islands and Floating Platforms during the Past Year). He has an MA in International Relations from the Hebrew University and a BA in Economics and Psychology from Haifa University. He is a senior research fellow in the Harold Hartog School for Government and Policy at Tel Aviv University (2015). He is a graduate of the cadet course of the Ministry of the Economy and served as the commercial attaché in the Israeli Embassy in Singapore (2000) and in Australia (2008) and as Chief Economist in the Foreign Trade Authority of the Ministry of

Economics. Ehud has published two books in Hebrew: "December", a historical novel about the period of 'aliyah' from the USSR and "The Tea Book" on the culture of tea.

Ido Gilad (Chapters: The Activity of the Russian Navy in 2018 the Middle East; Profession Naftali Heinz Wydra / An Exhibition in his Memory). Commander (Ret.) Gilad served in the Israeli Navy for more than two decades. He holds Bachelor degree in History of the Middle East, Master degree in Curriculum Planning, and another conferral Thesis focused on Leadership in extreme conditions, from the University of Haifa. Since 2017 he is a Ph.D. candidate at the University of Haifa. His research focuses on Geo Strategy, with the emphasis of Superpowers Maritime presence in the East Med. especially Russia.

Tzevy Mirkin (Chapter: The Russian Northern Sea Route – Declarations and Reality). Tsvi Mirkin is a historian of the Russian Navy. In 2014, he taught a course on the History of Russian Foreign Policy in the Faculty of Government at the IDC in Herzliya. In the past, he has served as a researcher at the Center for Political Research in the Foreign Ministry and as a political advisor to the Israeli Embassy in Russia.

Nitzan Feldman (Chapter: The Geopolitical Implications of the Trade War: a Theoretical Discussion). is an assistant professor of international relations, in the school of political science at the university of Haifa. He has published studies about the connection between political events and economic processes in leading academic journals. Formerly a post-doctoral student at the Leonard Davis Institute for International Relations and the Truman Institute at the Hebrew University of Jerusalem, Dr. Feldman teaches international political economy, international relations, and quantitative research methods at the Hebrew University and at Tel Aviv University.

Seth Cropsey (Chapter: Future U.S. Naval Capabilities). Director, Center for American Seapower, Hudson Institute. Seth Cropsey began his career in government at the Defense Department as Assistant to the Secretary of Defense Caspar Weinberger and subsequently served as Deputy Undersecretary of the Navy in the Reagan and Bush administrations, where he was responsible for the Navy's position on efforts to reorganize DoD, development of the maritime strategy, the Navy's academic institutions, naval special operations, and burden-sharing with NATO allies. In the Bush administration, Cropsey moved to OSD to become acting assistant secretary, and then principal deputy assistant Secretary of Defense for Special Operations and Low-Intensity Conflict. Cropsey served as a naval officer from 1985-2004.

Ram Erez (Chapter:). Is a national security specialist. As a research fellow, he deals mainly with issues of naval strategy & deterrence. Ram holds a Ph.D. in International relations from The Hebrew University in Jerusalem.

Elai Rettig (Chapter: Developments in the Natural Gas Sector in Israel). Elai Rettig Phd candidate at the School for Political Science at Haifa University and is a guest researchers at George Washington University. He research issues of energy policy and security in Israel and the Eastern Mediterranean. His doctorate, supervised by Professor Brenda Sheffer, was on the use of energy resources as a foreign policy tool and how the large oil exporters use it to increase their military power. He received a scholarship from the Ministry of Infrastructures, Energy and Water, a President of Haifa University scholarship and a doctoral scholarship from the Chaikin Chair for Geostrategy.

Amnon Portugaly (Chapter: A Comparison of Oil and Gas Offshore Strategy between Norway and Israel). A researcher at the Hazan Center for social justice . A graduate in chemical engineering at the Technion in Haifa and studied business administration at the Hebrew University of Jerusalem. Highly experienced in industrial management, venture capital and investment banking. lectured at the University of Haifa and at the School of Management and Economics at the Tel Aviv-Jaffa Academic College. Amnon is one of the initiators and leaders of the 'Civil Action Forum', the civil struggle to increase state revenues from natural gas.

Orin Shefler (Chapter: An Update Regarding the Marine Areas Law, 5778-2017 Currently Under Review by the Economics Committee in Preparation for the Second and Third Reading in the Knesset). Adv. Orin Scheffler is an expert in regulation and commercial law, a business consultant in the fields of high-tech and energy. Orin advises Israeli and foreign companies in the areas of business development, regulation and development and management of maritime projects. Orin holds an MBA from the Technion institute in Haifa, an LL.M from the Boston University School of Law and a BA and LLB degree in Business Administration and Law from the Interdisciplinary Center in Herzliya (IDC). Orin is certified as an attorney in Israel and New York.

Nir Zarchi (Chapter: A Defense Strategy for the Energy Facilities in the Maritime Environment: The Case of the Security Threats to the Dor Facility). is a research fellow at the Maritime Policy & Strategy Research Center at the University of Haifa since 2015. He received his M.A. in National Security & Political Science studies (2014) from the University of Haifa and his B.Sc in Industrial Engineering (2003)

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Moti Kalmar (Chapter: Developments in the Construction of Artificial Islands and Floating Platforms during the Past Year). Motti Klamer has an MSc from the University of Michigan in Architecture and Marine Engineering and Aeronautical Engineering. He is a Lieutenant Colonel (res.) in the Navy and is a graduate of the seaman's course. He served in the Navy in a number of senior command and professional positions in the area of marine engineering, including characterization, planning and shipbuilding. He has held executive positions in the defense industries. He is a consultant in architecture and marine engineering to government ministries and various government companies and in the private market.

Arie Gavish (Chapters: The Activity in Israel's Ports; Where to for Israeli Shipping?). Captain (res.) Aryeh Gavish (Gambash), Commander in the Israeli Navy. Held the follow Positions: Navy Attaché to the US, Commander of the Red Sea arena, Operations Commander of the Israeli navy, Commander of the missile ships squadron, commander of missile ship class Sa'ar 3, 4, 4.5, Commander of the mother ship. Arie holds a MA in political Science from the University of Haifa. BA in History from the Tel Aviv University. Arie was the Director of the Port of Ashdod 1997-2002 (before the reform in the ports); and Port of Haifa Manager 2007-2017 (After the reform in the ports).

Zeev Leshem (Chapter: Where to for Israeli Shipping?). A graduate of the University of Haifa in Economics and Statistics, specializing in port and shipping management and economics. Deputy head of the Shipping and Ports Authority of Israel, Senior Director, Division of Planning, Economics, Foreign Relations and Information Systems. Entrepreneur and consultant in the fields of shipping, ports and border crossings (Bonded).

Aryeh Rona (Chapter: Where to for Israeli Shipping?). Rear Admiral (Ret.) Dr. Aryeh Roneh was a senior commander in the Navy. He was the Director of the Shipping and Ports Authority (1994-2009). He is a graduate of the Naval Officers School in Acco (1961); he has a BA in the History of the Middle East and Geography from the University of Tel Aviv (1977); and he has an MA in Management from the US Naval College (1983). He is a graduate of the Division Commander Course in the IDF

(1984). He has an MA in History with specialization in the Middle East from Tel Aviv University (1992) and a PhD from Bar Ilan University.

Yoni Essakow (Chapter: The Strategic and National Implications of General Cargo and Bulk Shipping – Foreign trade as the mainstay of Israel's economy and the importance of general and dry bulk cargo). Owner and CEO of the Coral Group, which deals with shipping of general and bulk cargoes, ship charter services, logistic services for the offshore natural gas project and port construction project in Israel. Honorary Consul of Portugal. Public activities: Member of the Board of Directors of the University of Haifa, Member of the board of the Israeli Shipping Bureau, Member of the board of the Importers' Association, Member of the board of MERCI – Mediterranean Sea Research Center of Israel. Yoni is a graduate of the 8200 unit in the IDF and a squash player.

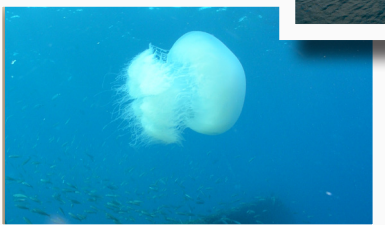
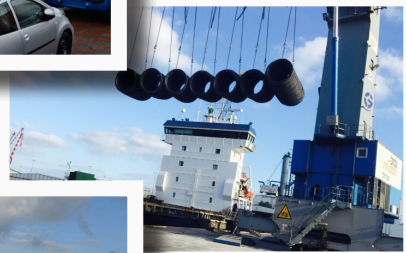
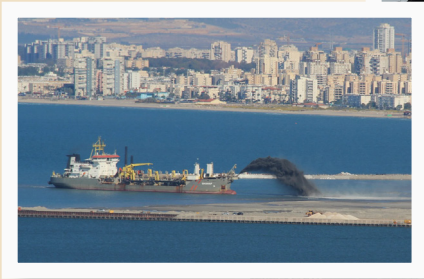
Galia Pasternak (Chapter: Marine Pollution: Source, Response and Prevention). an expert in marine pollution and waste reduction. She holds a master's degree in environmental engineering from Ben Gurion University and a Ph.D. in marine sciences from the University of Haifa. Galia worked for 13 years as a supervisor of marine pollution prevention at the Ministry of Environmental Protection and was part of the founders of the 'Clean Coasts' program. In recent years she works to increase the awareness of the problem of marine waste and the reduction of plastic pollution and is advising the Nature and Parks Authority on marine pollution in oil.

Tamar Lotan (Chapter: The Effect of the Jellyfish Proliferation – Ramifications on the National Level) is the Head of the Department of Marine Biology at the Charney School of Marine Sciences in the University of Haifa. She received her doctorate from the Weizmann Institute of Science and after two post-doctorate studies, at the Hebrew University of Jerusalem and Davis University in California, She entered the biotech field as an entrepreneur and established two companies in the fields of public health and drug introduction based on an understanding of the jellyfish's burning mechanisms. In October 2009 she joined the School of Marine Sciences and was a co-founder of the Department of Marine Biology. Her research interests include evolution, development and molecular ecology of the Cnidaria system, together with a biophysical study of the burning mechanisms.

MARITIME STRATEGIC EVALUATION FOR ISRAEL 2018/19

Chief editor: Prof. Shaul Chorev

Edited and produced by: Ehud Gonen



The Maritime Policy & Strategy Research Center is engaged in research on maritime strategy as part of Haifa University's effort to lead the Israeli national research in maritime and sea science. The Center conducts academic research in the areas of regional security and foreign policy, the movement of goods, people and ideas, law, energy and the environment – all while examining their impact on the national security of the State of Israel.

The 'Maritime Strategic Evaluation for Israel, 2018-2019', reviewed the main changes in the maritime domain globally as well as regionally (East Mediterranean) The 'Maritime Strategic Evaluation for Israel' included action plans and policy recommendations for decision makers which, in the opinion of the authors, can help Israel strengthen the sea component of Israel's national security and promote the sea-related economy as a growth engine (blue growth) for the Israeli economy.

The report was written by researcher fellows from Maritime Policy & Strategy Research Center at the University of Haifa, and researchers from the University of Haifa who have a unique knowledge of these subjects.



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