

40 YEARS OF UNITED NATIONS CONVENTION ON THE LAW OF THE SEA

Examining the Success and Failures



Editors

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**SATYAM LAW
INTERNATIONAL**

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ISBN: 978-81-19119-13-4

Published by : Satyam Law International, 2/13, Ansari Road, Daryaganj,
New Delhi-110002, INDIA

Tel : +91-11-40391920, 23242686, 23245698

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Web : www.satyam-books.com

Printed in India

CHAPTER 2

Climate Change And Its Implications On Indian Marine Environment- Legal Perspective

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ABSTRACT

Global Warming and Climate Change refer to rising global temperatures. National events and human activity may be causing global warming. Increasing greenhouse gases including CO₂, CH₄, N₂O, and CFCs produce this. Global warming affects every location. Polar ice melts as the sea rises. Some areas are experiencing harsh weather and rains, while others are experiencing droughts and heat waves. These repercussions will intensify in coming decades. Global warming will affect the oceans in several ways. Rising sea levels due to melting glaciers and ice sheets, and ocean warming leading to temperature stratification are ongoing effects.

Based on the report of Intergovernmental Panel for Climate Change (IPCC)³, it is noted that the Indian Ocean is warming comparatively higher than other oceans, and in all probability will witness a regular rise in sea levels. Other impacts include threat to the rainforest, coral reefs, and other ecosystem in the region. Recent study shows that the climate change has altered the movement of Indian Ocean. Heat waves in the Indian Ocean are making the monsoonal rains over central India erratic. Further, the increased warming of the ocean is making the cyclones more severe. The present article deals with the climate change and its implications on Indian marine

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3 IPCC (2019), "IPCC Special Report on the Ocean and Cryosphere in a Changing Climate" [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegria, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, 755 pp. <https://doi.org/10.1017/9781009157964>