Indian Ocean Marine Heat Wave Advisory Bulletin

Indian National Centre for Ocean Information Services (INCOIS)
Ministry of Earth Science (MoES), Govt. of India
URL:https://incois.gov.in/oceanservices/mhw/index.jsp

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Marine Heat wave status over Indian Ocean.

Regions	Spread of Marine Heat Wave (% of Area)			Remarks
	Watch	Alert	Warning	
Arabian Sea	11%	08%	03%	• **Arabian Sea:** Marine Heatwave activity has intensified, with **Watch conditions (11%), Alert (8%),** and **Warning (3%)** conditions observed along the coasts of Gujarat, Maharashtra, Goa, Karnataka, and Kerala —**May Impact:** Marine Productivity, Coral reef ecosystem.
Bay of Bengal	02%	--	--	• **Bay of Bengal:** Limited **Watch conditions (2%)** are observed primarily around the Andaman & Nicobar Islands and adjoining offshore waters.
Southern Indian Ocean	09%	03%	01%	• **Southern Indian Ocean:** Widespread **Watch conditions (9%)** with **Alert (3%)** and isolated **Warning** (1%) areas persist across the southern Indian Ocean, particularly near Madagascar and subtropical regions—**May Impact:** declining Open-ocean productivity.
South China Sea	11%	2%	--	• **South China Sea:** Predominantly **Watch conditions (11%)** with **localized Alert conditions (2%)** are observed across the South China Sea – **May Impact:** stress on coral reefs and Open-ocean productivity.
Red Sea & Gulf of Aden	1%	--	--	• **Red Sea & Gulf of Aden:** Minor **Watch conditions (1%)** is observed in isolated areas, indicating limited thermal stress on marine ecosystems.
Persian Gulf	--	--	--	• **Persian Gulf:** No significant MHW observed during this period.

For a brief report on the current Marine Heat Wavebulletin please visit:https://incois.gov.in/oceanservices/mhw/index.jsp
For clarifications please contact: webmaster@incois.gov.in

Note on MHW categories level:

- **"Watch":**The anomalous temperature range from 0 to 0.5 degree above the 90 Percentile of daily climatology
- **"Alert":**The anomalous temperature range from 0.5 to 1 degree above 90 Percentile of daily climatology
- **"Warning":** The anomalous temperature range of more than 1degrees above 90 Percentile of daily climatology

Date: 02 JUN 2026

Brief Report: Indian Marine Heat WaveAlert Bulletin

Background: The Indian National Centre for Ocean Information Services (INCOIS) is a research organization under the Ministry of Earth Science (MoES) Government of India, has carried out research and development on Marine Heat Wave based on the prolonged anomalous temperature above the 90^{th} percentiles of daily climatology calculated using OISST data over the Indian Ocean including south China sea. The intensity of MHW and its different categories of products such as 'Watch' (SST anomaly from 0 to 1^0), 'Alert' (1-2) andWarning' (>2^{o}C) were generated dailyand hosted on web-GIS interface (URL: https://incois.gov.in/oceanservices/mhw/index.jsp). The study area of this service is dividedinto six ocean basins (Arabian Sea, Bay of Bengal, Persian Gulf, Red Sea, southern Indian Ocean and South China Sea) and fourteen sectors off the Indian states (Gujarat, Maharashtra, Goa, Karnataka, Kerala, Lakshadweep, South Tamil Nadu, North Tamil Nadu, South Andhra Pradesh, North Andhra Pradesh, Odisha, West Bengal, Andaman and Nicobar Islands) for sectoral analysis. INCOIS also carried out on the intensity of MHW and its impact on Marine ecology such as coral reefs, seagrass, seaweeds, fishery etc. with their adverse impact on biodiversity and species shifting due to future climate change.

Based on daily MHW advisories of the past seven days, a weekly summary report was generated and presented in the form of a bulletin comprising a summary of the MHW status in each ocean basin. This will provide an overview of the MHW status in different ocean basins that help stockholders such as ecologists, fishermen, coastal managers, tourists, ocean researchers, etc.

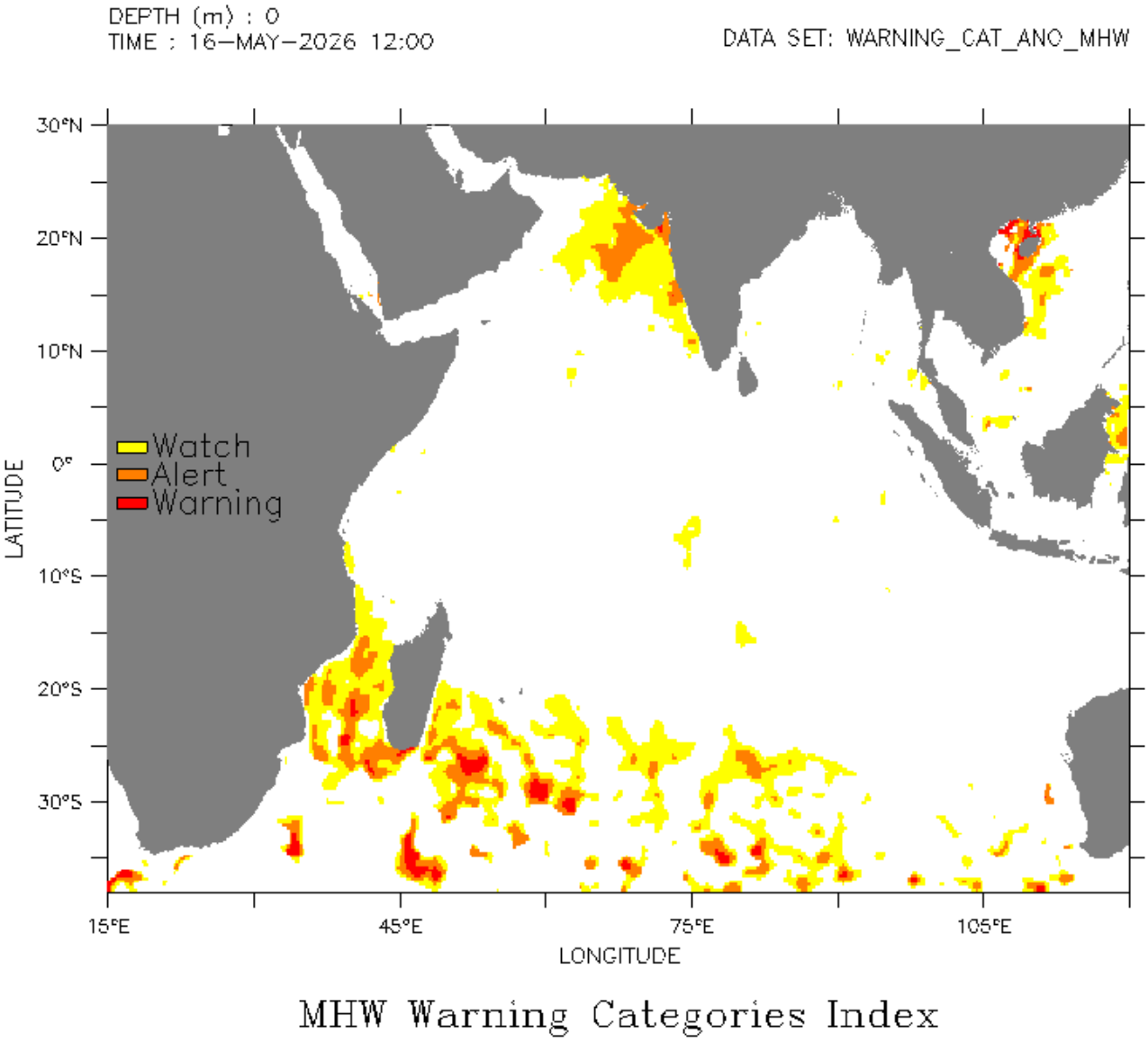

Fig: Spatial distribution of Marine Heat Wave categories over the Indian Ocean