



# 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>



**Date of Issue: 16-MAY-2026    Bulletin No: MAHAS:2026/05/03**

## *Marine Heat Wave Status over the Indian Ocean.*

Regions	Spread of Marine Heat Wave (% of Area)			Remarks
	Watch	Alert	Warning	
Arabian Sea	15%	08%	01%	• <b>Arabian Sea:</b> Predominantly <b>Watch conditions (15%)</b> with pockets of <b>Alert (8%)</b> and <b>limited Warning (1%)</b> are observed along the coasts of Gujarat, Maharashtra, Goa, Karnataka, and Kerala -- <b>May Impact</b> coral reef systems, shift pelagic fisheries, and reduce marine productivity.
Bay of Bengal	07%	02%	01%	• <b>Bay of Bengal:</b> Predominantly <b>Watch conditions (7%)</b> with areas of <b>Alert (2%)</b> and limited <b>Warning (1%)</b> are observed. Watch conditions prevail along the coast of the Andaman and Nicobar Islands – <b>May Impact</b> coral reef ecosystem stress and altered plankton productivity.
Southern Indian Ocean	02%	--	--	• <b>Southern Indian Ocean:</b> Predominantly <b>Watch conditions (2%)</b> with minimal across the basin— <b>May Impact:</b> declining Open-ocean productivity.
South China Sea	--	--	--	• <b>South China Sea:</b> No significant MHW observed during this period.
Red Sea & Gulf of Aden	--	--	--	• <b>Red Sea &amp; Gulf of Aden:</b> No significant MHW observed during this period.
Persian Gulf	--	--	--	• <b>Persian Gulf:</b> No significant MHW observed during this period.

For a brief report on the current Marine Heat Wave bulletin, please visit: <https://incois.gov.in/oceanservices/mhw/index.jsp>

For clarifications, please contact: [webmaster@incois.gov.in](mailto:webmaster@incois.gov.in)

### Note on MHW categories level:

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

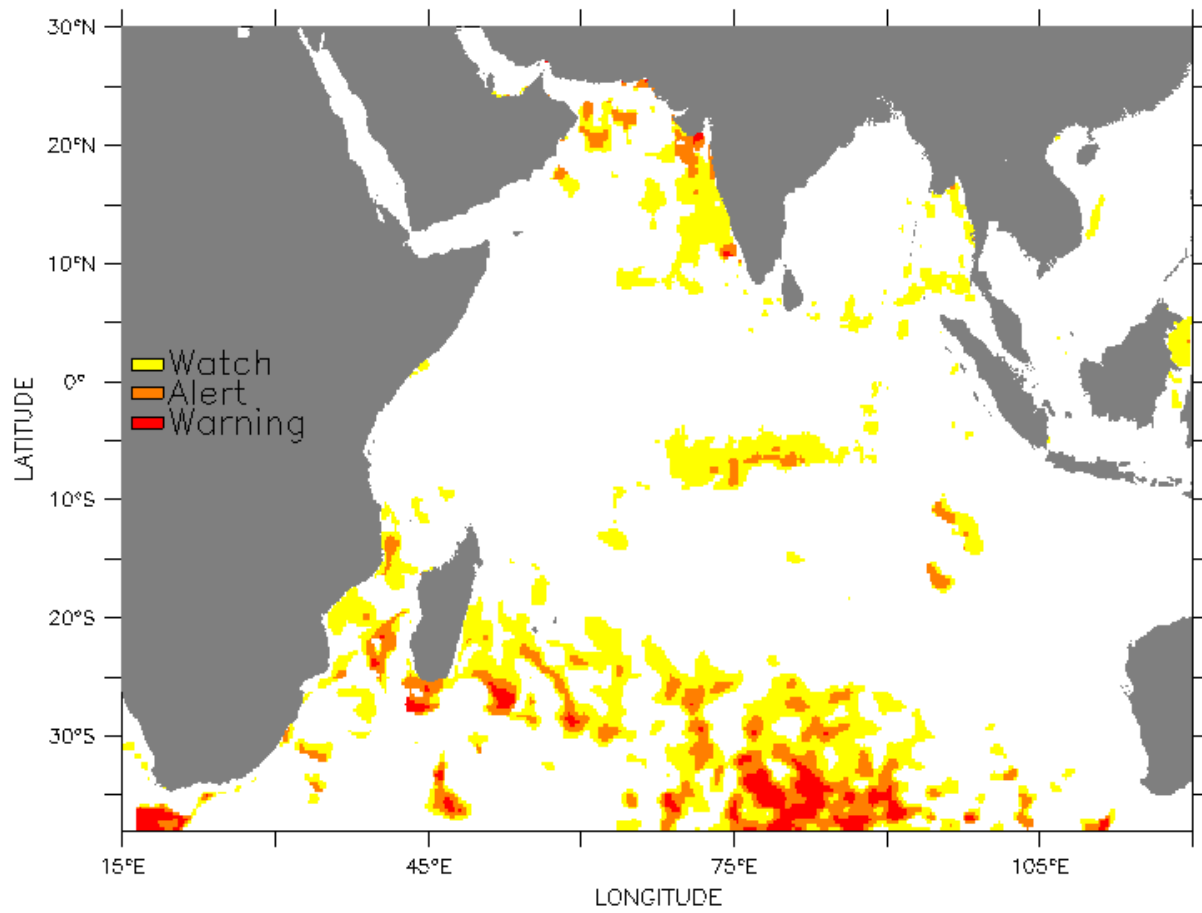
## **Brief Report: Indian Marine Heat Wave Alert Bulletin**

**Background:** The Indian National Centre for Ocean Information Services (INCOIS) is a research organisation under the Ministry of Earth Science (MoES) Government of India, which has carried out research and development on Marine Heat Wave based on the prolonged anomalous temperature above the 90<sup>th</sup> percentiles of daily climatology calculated using OISST data over the Indian Ocean, including the South China Sea. The intensity of MHW and its different categories of products, such as 'Watch' (SST anomaly from 0 to 10), 'Alert' (1-2), and 'Warning' (> 2 °C), were generated daily and hosted on a web-GIS interface (URL: <https://incois.gov.in/oceanservices/mhw/index.jsp>). The study area of this service is divided into 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 assessed the intensity of MHW and its impact on marine ecosystems, including coral reefs, seagrasses, seaweeds, and fisheries, with adverse effects on biodiversity and species shifts 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 across different ocean basins, helping stakeholders such as ecologists, fishermen, coastal managers, tourists, and ocean researchers.

DEPTH (m) : 0  
TIME : 08-MAY-2026 12:00

DATA SET: WARNING\_CAT\_ANO\_MHW



### MHW Warning Categories Index

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