The Fourth Global Bleaching Event

The Western Indian Ocean and the Story so Far

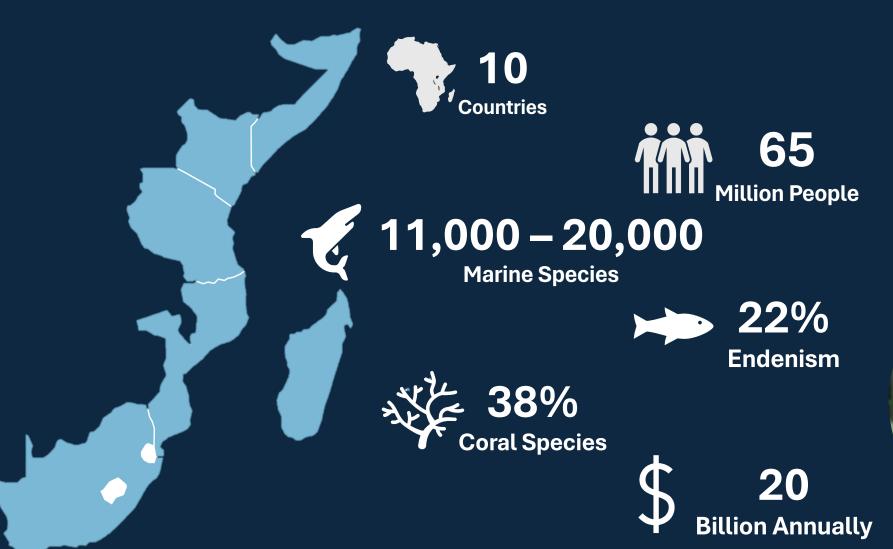
Dr Karin Moejes

kmoejes@cordioea.net

14th May 2024



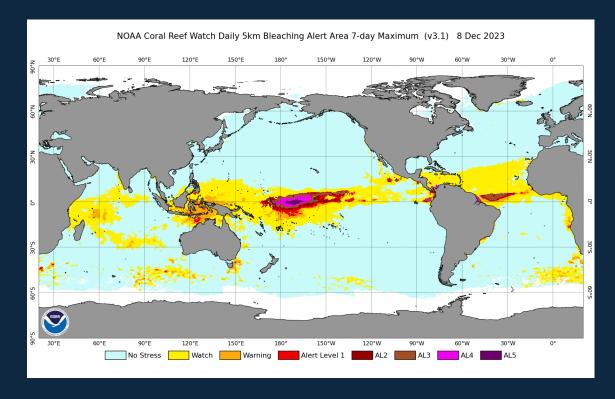
The Western Indian Ocean

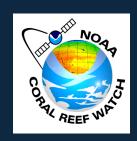






Preparing for the 2024 Bleaching



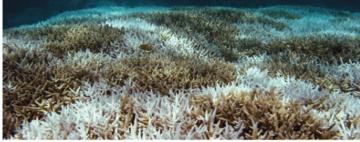




Preparing for the 2024 Bleaching









CORAL BLEACHING MONITORING GUIDE WESTERN INDIAN OCEAN - 2016

Compiled by David Obura



















Indian Ocean Coral Bleaching Reporting Form

Dear partners,

submit this form.

In our efforts to better understand the impacts of coral bleaching events in the region, we are seeking consistent, basic-level coral bleaching data from our partners across the region. Please use this form to contribute to this initiative. When y dedicate approximately 15 minutes to applying the method outlin

Method:

- · Conduct a 5-minute timed swim and observe the reef.
- Examine all visible hard corals, noting their growth shape (r below).
- . Estimate the percentage of coral cover bleached in the area



Low Bleaching reported in Kenya

Moderate Bleaching reported in Tanzania

Moderate Bleaching reported in Seychelles



Jan 2024

1st Report on 6th Jan

7 Reports in Jan

7 Total Reports

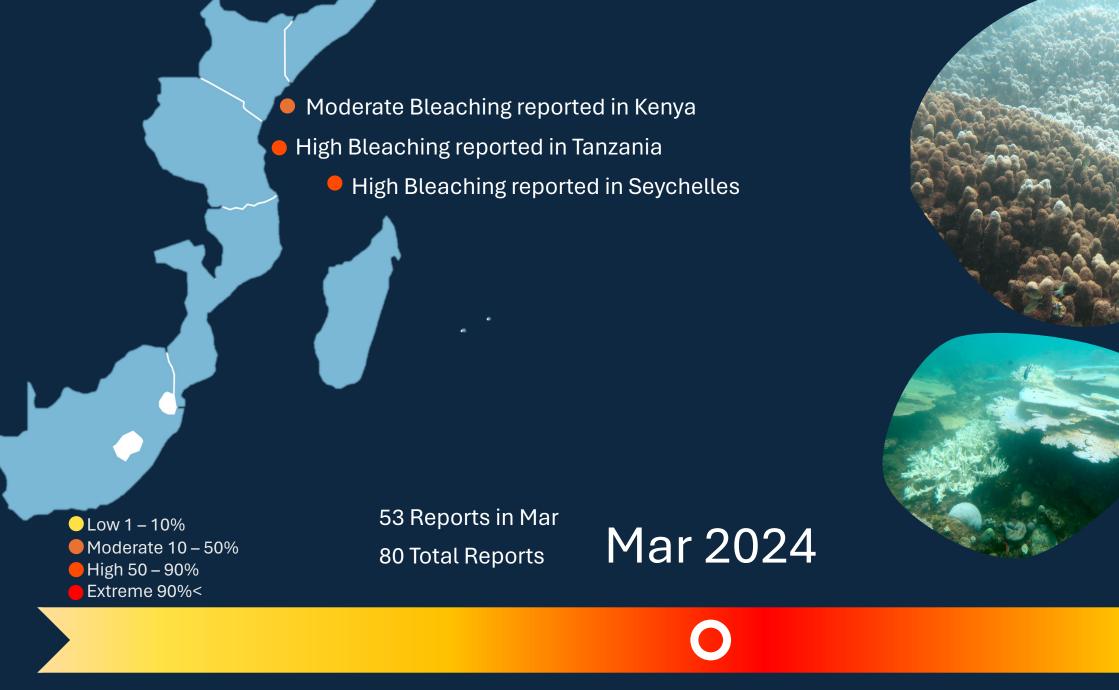


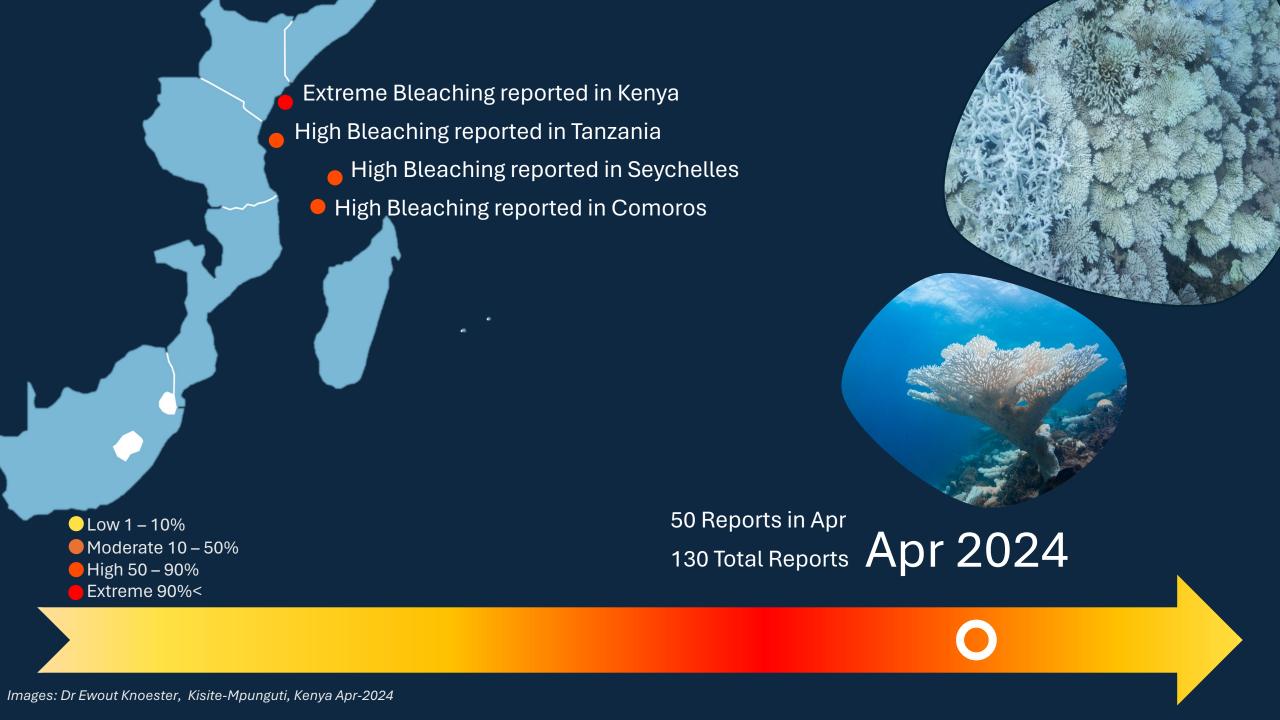
Moderate 10 – 50%

Extreme 90%<

High 50 – 90%







Images: Dr Ewout Knoester , Shimoni and Kisite-Mpunguti, Kenya Jan/Apr-2024









Jan 2024

Apr 2024

Initial Insights from Kenya's South Coast

- 15-25% mortality
- High mortality of sensitive species (Acropora, Pocillopora)
- Loss of soft corals
- Increased predation
- Some resilient genera (Galaxea, Coscinarae)
- Mixed responses in species like Echninopora and Gonipora



Looking Ahead



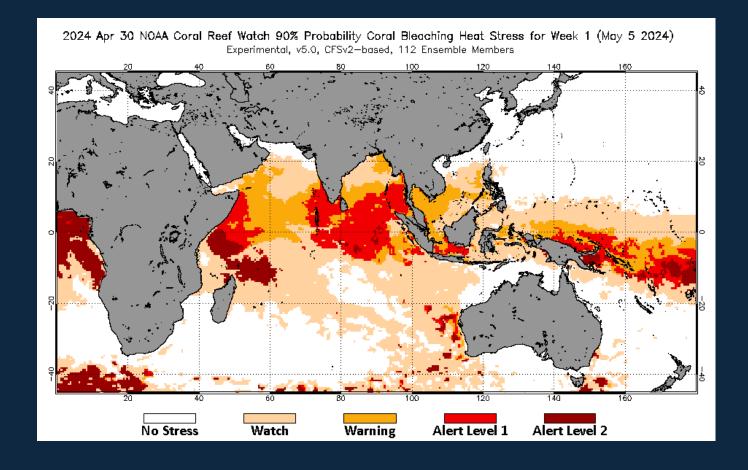
Ongoing monitoring



Continued reporting to CORDIO and NOAA



Regional Bleaching Alerts



May 2024 July 2024

June 2024 Aug 2024

Lessons Learnt

Successes



Early warning from NOAA Coral Reef Watch



National coordinated and collaborative effort



Citizen science for bleaching observations

Challenges



Regional coordinated bleaching monitoring and reporting



Sharing timely bleaching observations



Lack of dedicated funding for bleaching monitoring efforts











































