

Coral Reef Red List of Ecosystems

International Coral Reef Initiative Online Meeting

14th March 2024

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Norad

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**RED LIST OF
ECOSYSTEMS**

MSC FOUNDATION



Applications of the RLE

Conservation : Systematic & Strategic risk assessments

Identify ecosystems at high risk

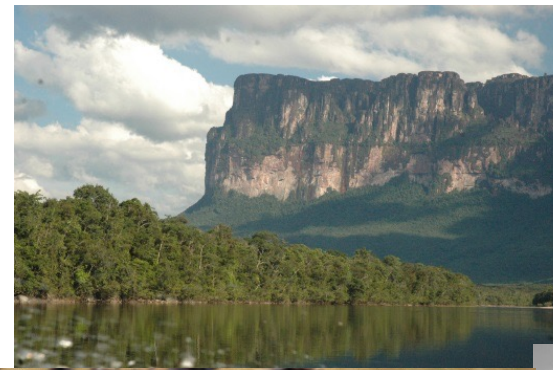
Identify key processes & threats

Enact legislation to protect threatened ecosystems

Identify management actions

Global environmental reporting : track progress towards achieving international environmental targets – Global Biodiversity Framework Goal A, Target 1 and 15 other targets

Public sector: inform the public about the current state of ecosystems and their future prognosis



The RLE, coral reefs and the KM-GBF



Kunming-Montreal Global Biodiversity Framework
Adopted at COP15, 19
December 2022.

Headline Indicator A2 – Red
List of Ecosystems

nature ecology & evolution

Progress

<https://doi.org/10.1038/s41559-023-02320-1>

Roles of the Red List of Ecosystems in the Kunming-Montreal Global Biodiversity Framework

Received: 28 July 2023

Accepted: 14 December 2023

Emily Nicholson^{1,2,3}✉, Angela Andrade^{3,4}, Thomas M. Brooks^{5,6,7},
Amanda Driver⁸, José R. Ferrer-Paris^{3,9,10}, Hedley Grantham^{9,11},
Mishal Gudka^{1,2,12}, David A. Keith^{3,9}, Tvtti Kontula¹³, Arild Lindaaard¹⁴.

The role of the RLE in
the GBF in relation to
concepts, indicators
and interpretation

Detailed methodology (in Supplementary
Material) on how to apply the RLE in coral
reef contexts, providing a template for
regional adaptation/specification

nature
sustainability

ARTICLES

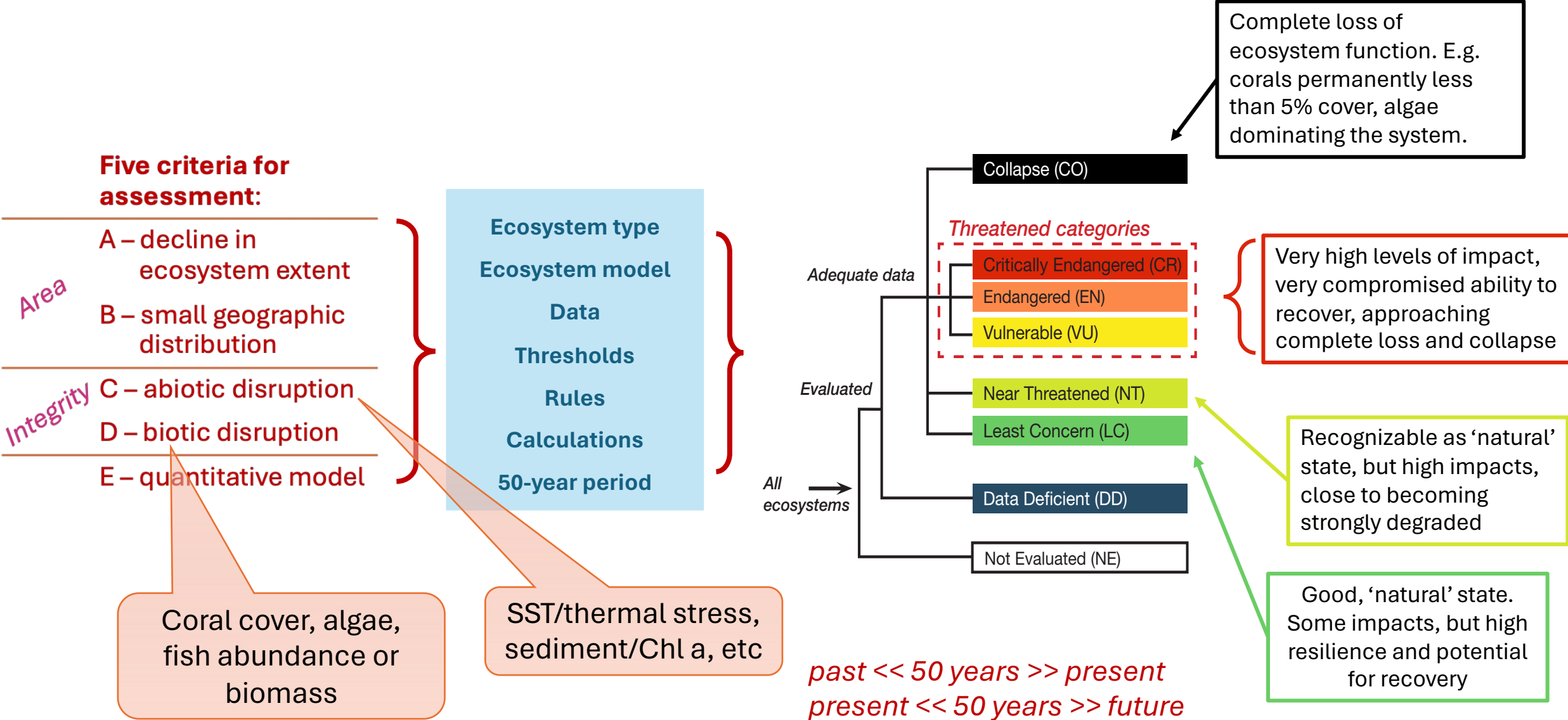
<https://doi.org/10.1038/s41893-021-00817-0>

Check for updates

Vulnerability to collapse of coral reef ecosystems in the Western Indian Ocean

David Obura^{1,2}✉, Mishal Gudka¹, Melita Samoily^{1,3}, Kennedy Osuka¹, James Mbugua¹,
David A. Keith⁴, Sean Porter⁵, Ronan Roche⁶, Ruben van Hooijdonk^{7,8}, Said Ahamada⁹,
Armando Araman¹⁰, Juliet Karisa¹¹, John Komakoma¹², Mouchtadi Madi¹³, Isabelle Ravinia¹⁴,
Haia Razafindrainibe¹⁵, Saleh Yahya¹⁶ and Francisco Zivane¹⁷

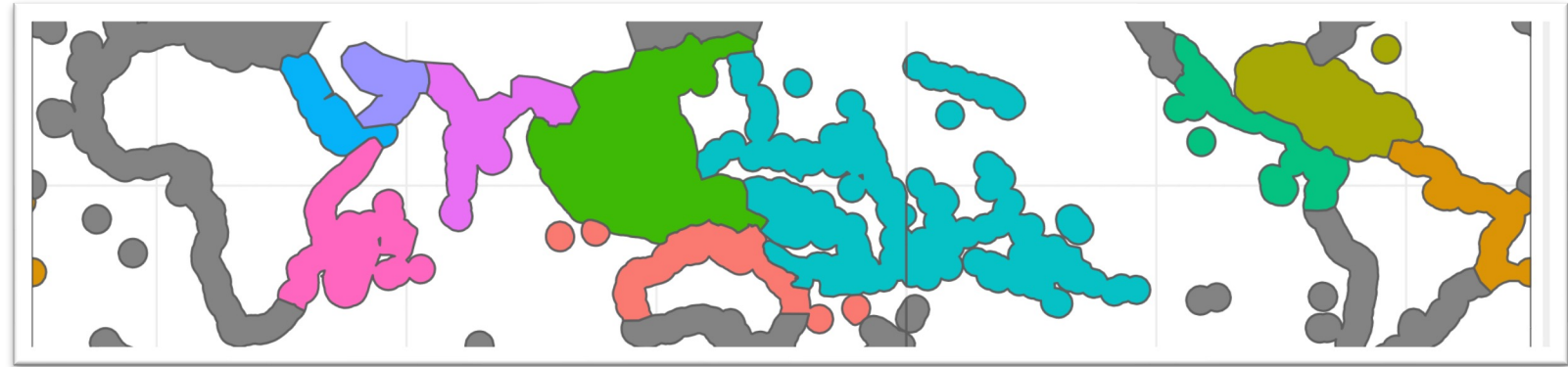
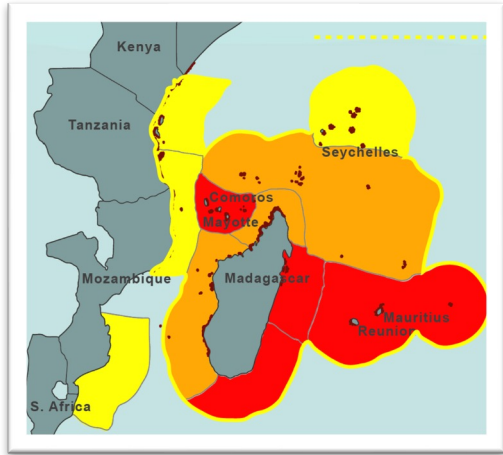
How the RLE Works



What now?

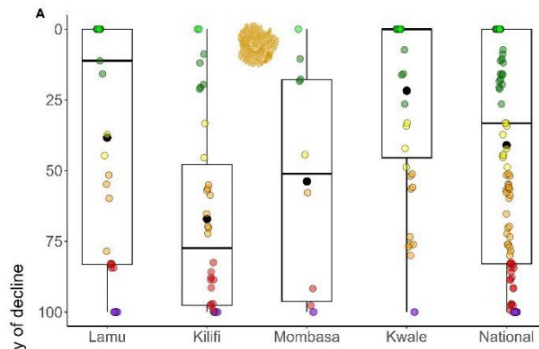
All ecoregions are in threatened categories

- **VU** – 4 ecoregions → fishing
- **EN** – 3 ecoregions } warming
- **CR** – 4 ecoregion }



Regional (WIO)

- WIO analysis completed.
- ‘National Coral Reef Assessments’ underway in – Kenya, Tanzania, Mozambique, Madagascar and Comoros

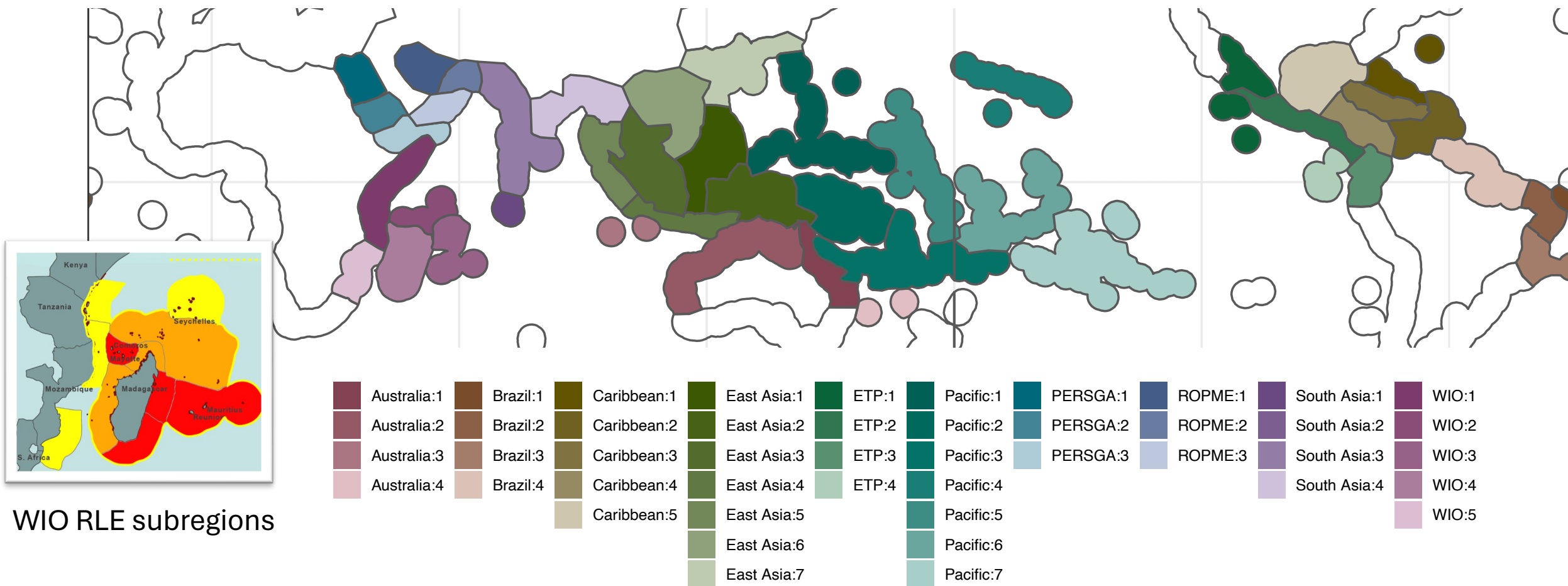


Global

- Engage with GCRMN global reporting for 2024 (coral, algae; with regional nodes for fish)
- **Supplementary work stream to push analysis through RLE code repository -> regional RLE outputs/reports**
- Ad-hoc Technical Expert Group developing v. strong metadata/instructions for production of headline indicators (RLE)
 - **??Target to achieve global coverage based on 2024 update??**
 - **??Priority support for countries in national reporting to KM-GBF??**

GCRMN regions and subregions -> 'level 4' ecosystem units

- These are the subregions used in 2020 (MEOW province <> ecoregion)
- Will it be the same in 2024?
- Do we want some smaller subregions for RLE outputs (as done in WIO – 11 rather than 5)



WIO RLE subregions