











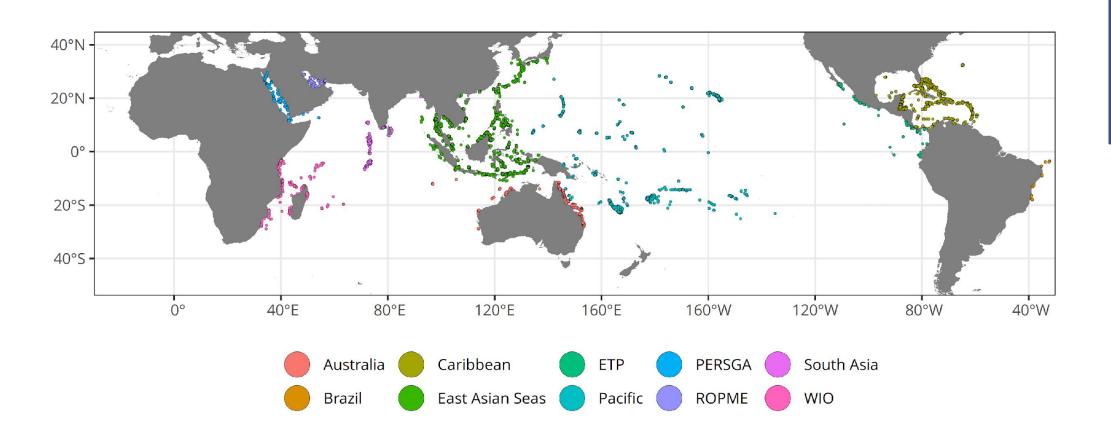






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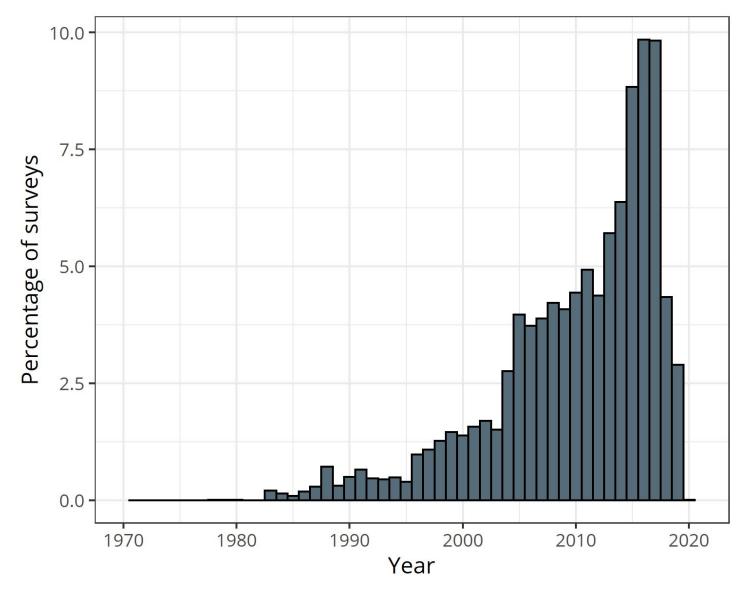


**
Australian Government



- ~2 million observations
- Collected by >300 Scientists
- Collected over 41 years (1978 2019)

- From 12,000 sites
- From 73 countries



- Pre-1998 global average coral cover is high and stable
- Uncertainty high
- 1998 first mass coral bleaching event
 - Number of surveys increased dramatically and so did confidence in the
 - **প্রমিশ্রেগ্র**% of the world's corals
- 2002-2009 Coral cover recovered to pre-1998 levels
- 2009-2018 14% loss of the world's corals
- 2019 first sign of recovery

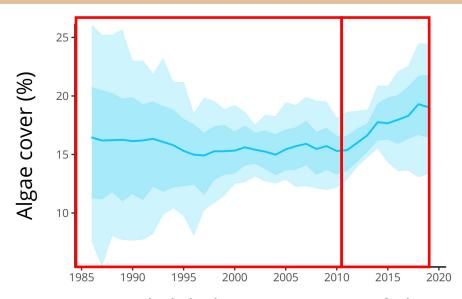
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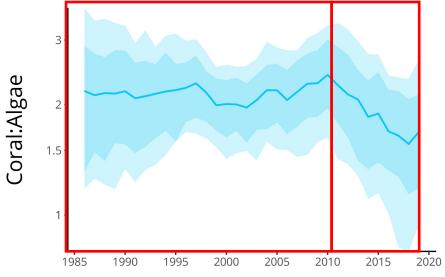








Estimated global average cover of algae



Ratio of estimated global average cover of hard coral to algae

- Inverse relationship with hard coral cover
- Pre-2011 cover of algae is low and stable
- 20% more algae on the world's reefs during the last decade



 With the decline in the amount of coral and the increase in the amount of algae, this has dropped to about 1.5 Status of Coral Reefs of the World: 2020

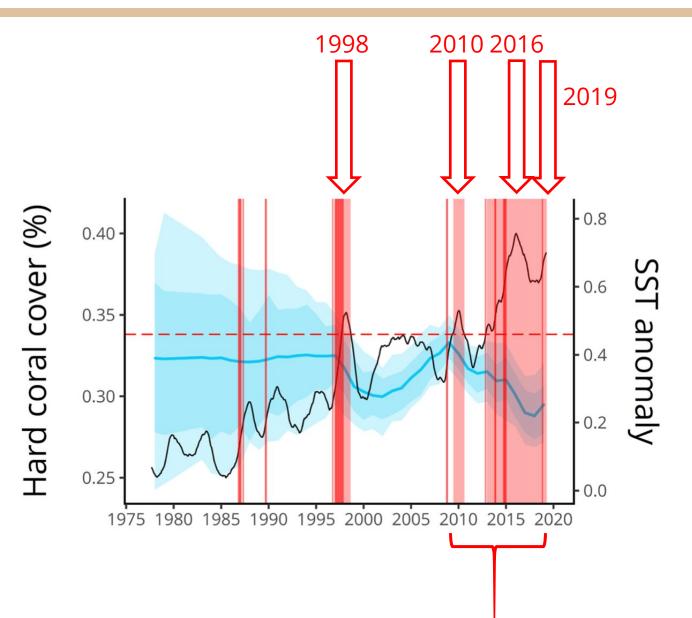
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- Very strong association between global hard coral cover and mean global SST anomaly
 - Rapid increases in the global SST anomaly (dark red)
 - Periods of sustained SST anomalies (light red)
- All three global bleaching events have coincided with periods of rapid increase in SST anomaly
- Sustained high SST anomaly during the last decade conincides with progressive decline in coral cover
- Direct impact of climate change
- 2019 evidence of adaptation?

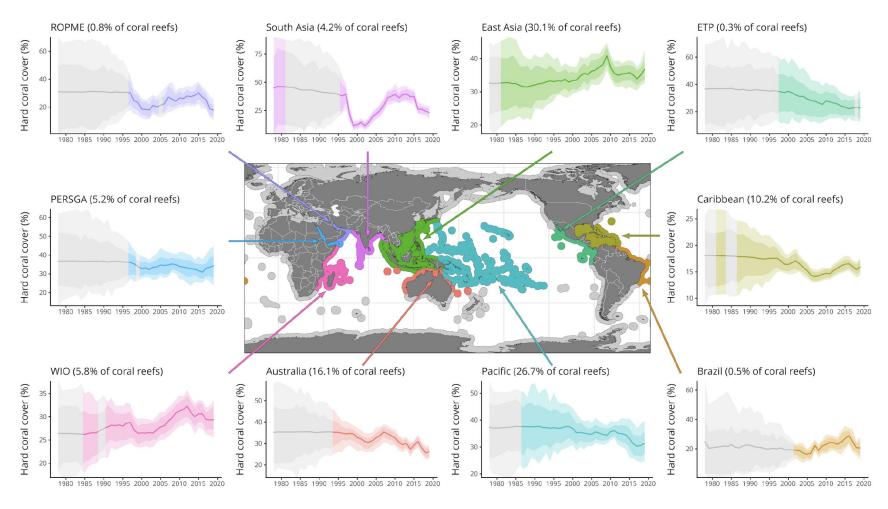
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- Variation in magnitude of change
- Similarities in pattern (early relative stability, 1998, declines in the last decade)

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Media Uptake

- > 4000 downloads
- 592 media articles
- Published in 480 outlets
- 62 countries
- 18 languages
- Reaching 2.5 billion people
- New York Times, The Washington Post, The Times, The Guardian, Le Monde, Al Jazeera, and the BBC.

Le Monde

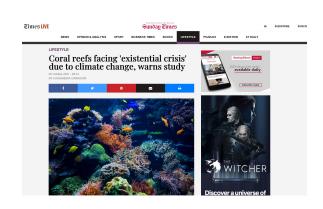
Les coraux diminuent rapidement presque

Publié le 05 octobre 2021 à 03h50 - Mis à jour le 05 octobre 2021 à 10h34 - 🐧 Lecture 4 mir

La planète a perdu 14 % de ses coraux entre 2009 et 2018, selon une vaste analyse menée par un réseau de 300 chercheurs. Un recul qui menace la vie marine. En cause, principalement, le

partout dans le monde







nent Climate crisis Energy Wildlife Biodiversity Oceans Pollution Great Barrier Reef

• This article is more than 2 months old

decade, study shows

🚾 Hindustan Times

Climate change killed 14% of the world's coral reefs i 10 years: Study 14% of world's coral lost in less than a



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Switch to Chromebook









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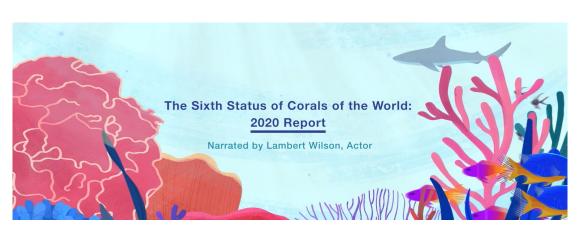
GCRMN Animations

- To support the launch of the Sixth GCRMN Status of Coral Reefs of the World: 2020 report, 8
 animations have been produced:
 - 1. Full-length Animation (English)
- Short Animations (60 seconds):
 - 1. Antoinette Taus (English)
 - 2. Carolina Pereira (Portuguese)
 - 3. Lambert Wilson (French)
 - 4. Li Bingbing (Chinese)
 - 5. Marce la Reclicladora (Spanish)
 - 6. Rocky Dawuni (English)
 - 7. Wang Junkai (Chinese)



Search:

"International Coral Reef Initiative"











What did we learn?

- Support for the GCRMN network remains strong
- Enormous value in a quantitative approach:
 - Global, regional, sub-regional status and trends
 - Global and regional impacts of large scale disturbances (i.e coral bleaching, disease)
- Delivery of key messages through partnerships strengthened delivery

BUT:

- Huge variation in how and what data are collected
- Lowest common denominator: Hard coral cover and algae
- No quantitative analysis of fish, community composition, socio-economic data
- More difficult to incorporate local scale information

COVID presented challenges

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What next?

- Build on the momentum of the report
- Strengthen coordination
 - Steering Committee meeting early 2022
- Build sustainable funding
- Workshops (COVID and funding permitting)
 - Prioritisation
 - Building capability and capacity









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Data

- Enhancing data management and access through partnerships
- Greater interoperability and re-use through the adoption of standards
- Establishing database protocols to consolidate data for use in policy processes
- Encourage data publication to provide better access, attribution, transparency, reproducibility
- Broadens what we can report (benthic composition, fish, socio-economic)
- Underpins management of coral reefs and investment in protection and restoration







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