

# Scientists assess bleaching damage on Great Barrier Reef

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Scientist surveys Rib Reef off Townsville where corals are in good shape. Credit: ARC Centre of Excellence in Coral Reef Studies

Scientists are surveying the continuing aftermath of the worst coral bleaching event ever recorded on the Great Barrier Reef.

Six months after the extreme underwater heatwave of 2015/2016, many of the bleached corals have died in the northern third of the Reef. The large-scale devastation is now being compounded by disease infecting the damaged corals and by coral predators.

Teams of researchers from the ARC Centre of Excellence for Coral Reef Studies at James Cook University are returning to the same 83 reefs that they surveyed underwater in March this year at the height of the bleaching event.

"Millions of corals in the north of the Great Barrier Reef died quickly from heat stress in March and since then, many more have died more slowly," says Dr. Greg Torda whose team recently returned from re-surveying reefs near Lizard Island.

The scientists have today released unique footage

showing the extent of the bleaching in March and April, which was most severe in the northern 700km section of the Great Barrier Reef. Reefs in the southern half of the reef were only lightly bleached and remain in good condition.

"Six months after the peak bleaching, the corals now have either regained their algal symbionts and survived, or they have slowly starved to death without the nutrition the algae provide to them," says Torda.

"On the reefs we surveyed close to Lizard Island, the amount of live coral covering the reef has fallen from around 40% in March, to under 5% now.

"In March, we measured a lot of heavily bleached branching corals that were still alive, but we didn't see many survivors this week," says Dr Andrew Hoey, who is currently working from Lizard Island Research Station.

"On top of that, snails that eat live coral are congregating on the survivors, and the weakened corals are more prone to disease. A lot of the survivors are in poor shape."

"As we expected from the geographic pattern of bleaching, the reefs further south are in much better shape," says Professor Andrew Baird who led the re-surveys of reefs in the central section of the Great Barrier Reef.

"There is still close to 40% coral cover at most reefs in the central Great Barrier Reef, and the corals that were moderately bleached last summer have nearly all regained their normal colour."

The final death toll from the bleaching in the north will not be known until all surveys are completed in mid-November, but it is already clear that this event was much more severe than the two previous bleachings in 2002 and 1998.

Provided by ARC Centre of Excellence in Coral  
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