

# How did Florida fail to respond to a coral disease epizootic and what's to follow?

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A colony of the large grooved brain coral, *Colpophyllia natans*, infected by Stony Coral Tissue Loss Disease. The photo shows the progressive, rapid advance of disease, left-to-right, across the colony. Credit: William Precht

By 2020, massive losses of large populations of corals have been observed throughout Florida and into the greater Caribbean basin.

Taking into account the high mortality and the large number of susceptible species affected, this is likely the most lethal case of Stony Coral Tissue Loss Disease (SCTLD) ever recorded in modern history.

However, for too long, the tremendous decline in coral reefs has wrongly been attributed to the local dredge project, which had been ongoing at the time of the initial reports. In a recent Perspectives paper, published in the open-access peer-reviewed journal *Rethinking Ecology*, William Precht, a carbonate sedimentologist by training and currently the Director of Marine and Coastal Programs for the independent environmental consulting firm Dial Cordy and Associates Inc., provides an overview about what went wrong and how Florida ended up in a situation, where the best that could be done is the rescue of genetic material from [coral species](#) already at risk of regional extinction.

In fact, the [coral disease](#) was first observed in September 2014 near Virginia Key, Florida, and is, unfortunately, still active throughout the Caribbean to this date.

Initially, the resource managers in Southeast Florida missed the short time window to respond to the emerging epidemic before it spreads. Once it began to reach into the greater Caribbean, many, including the [mass media](#), were quick to blame the ongoing Port Miami Dredge Project for the coral reef losses, even though its activities, meant to widen or deepen existing ship channels, while minimising damage to coral reef resources, had already been under a thorough scrutiny by [government agencies](#) and intensive monitoring, conducted by trained scientific divers. Nevertheless, dredging has typically been assumed to be bad for corals. Furthermore, these events coincided with the State of Florida's prohibition for [government employees](#) to acknowledge [global warming](#) in their work.

In the meantime, SCTLD, a disease initiated by a regional thermal

anomaly and coral bleaching event, was killing off the same suite of coral [species](#) in the same fashion throughout the region, well beyond the dredge site.

"Finally, when the agencies responded to the outbreak, their efforts were too little and much too late to make a meaningful difference. While eradication of the disease was never a possibility, early control measures may have slowed its spread, or allowed for the rescue of significant numbers of large colonies of iconic species. Because of the languid management response to this outbreak, we are now sadly faced with a situation where much of our management efforts are focused on the rescue of genetic material from coral species already at risk of regional extinction," explains Precht.

"Why was the response to the loss of our [coral reefs](#) to a coral disease epidemic such a massive failure? This includes our failure as scientists, regulators, resource managers, local media, and policy makers alike," he adds.

**More information:** William Precht, Failure to respond to a coral disease epizootic in Florida: causes and consequences, *Rethinking Ecology* (2021). [DOI: 10.3897/rethinkingecology.6.56285](https://doi.org/10.3897/rethinkingecology.6.56285)

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