

Final Rule to Reclassify Pillar Coral (*Dendrogyra cylindrus*) to endangered

References

- Aeby, G. S., B. Ushijima, J. E. Campbell, S. Jones, G. J. Williams, J. L. Meyer, C. Häse, and V. J. Paul. 2019. Pathogenesis of a Tissue Loss Disease Affecting Multiple Species of Corals Along the Florida Reef Tract. *Frontiers in Marine Science* 6:678. doi: 10.3389/fmars.2019.00678.
- Alvarez-Filip, I., F. J. Gonzalez-Barrios, E. Perez-Cervantes, A. Molina-Hernandez, and N. Estrada-Saldivar. 2022. Stony coral tissue loss disease decimated Caribbean coral populations and reshaped reef functionality. *Communications Biology* 5:440. <https://doi.org/10.1038/s42003-022-03398-6>
- Alvarez-Filip, L., N. Estrada-Saldivar, E. Perez-Cervantes, A. Molina-Hernandez, and F. J. Gonzalez-Barrios. 2019. A rapid spread of the stony coral tissue loss disease outbreak in the Mexican Caribbean. *PeerJ* 7:e8069. doi: 10.7717/peerj.8069.
- Bernal-Sotelo, K., A. Acosta, and J. Cortés. 2019. Decadal Change in the Population of *Dendrogyra cylindrus* (Scleractinia: Meandrinidae) in Old Providence and St. Catalina Islands, Colombian Caribbean. *Frontiers in Marine Science* 5:513. doi: 10.3389/fmars.2018.00513.
- Brandt, M. E., R. S. Ennis, S. S. Meiling, J. Townsend, K. Cobleigh, A. Glahn, J. Quetel, V. Brandtneris, L. M. Henderson, and T. B. Smith. 2021. The Emergence and Initial Impact of Stony Coral Tissue Loss Disease (SCTLD) in the United States Virgin Islands. *Frontiers in Marine Science* 8:715329. doi: 10.3389/fmars.2021.715329.
- Chan, A. N., C. L. Lewis, K. L. Neely, and I. B. Baums. 2019. Fallen Pillars: The Past, Present, and Future Population Dynamics of a Rare, Specialist Coral–Algal Symbiosis. *Frontiers in Marine Science* 6:218. doi: 10.3389/fmars.2019.00218.
- Costa, S. V., S. J. Hibberts, D. A. Olive, K. A. Budd, A. E. Long, S. S. Meiling, M. B. Miller, K. M. Vaughn, C. I. Carrión, M. B. Cohen, A. E. Savage, M. F. Souza, L. Buckley, K. W. Grimes, R. Platenberg, T. B. Smith, J. Blondeau, and M. E. Brandt. 2021. Diversity and Disease: The Effects of Coral Diversity on Prevalence and Impacts of Stony Coral Tissue Loss Disease in Saint Thomas, U.S. Virgin Islands. *Frontiers in Marine Science* 8:682688. doi: 10.3389/fmars.2021.682688.
- Dahlgren, C., V. Pizarro, K. Sherman, W. Greene, and J. Oliver. 2021. Spatial and Temporal Patterns of Stony Coral Tissue Loss Disease Outbreaks in The Bahamas. *Frontiers in Marine Science* 8:682114. doi: 10.3389/fmars.2021.682114.
- Estrada-Saldivar, N., B. A. Quiroga-García, E. Pérez-Cervantes, O. O. Rivera-Garibay, and L. Alvarez-Filip. 2021. Effects of the Stony Coral Tissue Loss Disease Outbreak on Coral Communities and the Benthic Composition of Cozumel Reefs. *Frontiers in Marine Science* 8:632777. doi: 10.3389/fmars.2021.632777.
- Florida Coral Disease Response Research & Epidemiology Team. 2018. Case Definition: Stony Coral Tissue Loss Disease (SCTLD). https://floridadep.gov/sites/default/files/Copy%20of%20StonyCoralTissueLossDisease_CaseDefinition%20final%2010022018.pdf.

Jones, N. P., L. Kabay, K. Semon Lunz, D.S. Gilliam. 2021. Temperature stress and disease drives the extirpation of the threatened pillar coral, *Dendrogyra cylindrus*, in southeast Florida. *Scientific Reports* 11: 14113. doi: 10.1038/s41598-021-93111-0

Kabay, L. 2016. Population Demographics and Sexual Reproduction Potential of the Pillar Coral, *Dendrogyra cylindrus*, on the Florida Reef Tract. Masters. Nova Southeastern University, Ft. Lauderdale, FL.

Lewis, C. F. 2018. Florida's Pillar Coral (*Dendrogyra cylindrus*): The Roles of the Holobiont Partners in Bleaching, Recovery, and Disease Processes. Ph.D. dissertation. Florida International University, FIU Electronic Theses and Dissertations. 3952.
https://digitalcommons.fiu.edu/etd/3952?utm_source=digitalcommons.fiu.edu%2Fetd%2F3952&utm_medium=PDF&utm_campaign=PDFCoverPages.

Lewis, C. L., K. L. Neely, L. L. Richardson, and M. Rodriguez-Lanetty. 2017. Temporal dynamics of black band disease affecting pillar coral (*Dendrogyra cylindrus*) following two consecutive hyperthermal events on the Florida Reef Tract. *Coral Reefs* 36(2):427-431.

Marhaver, K. L., M. J. A. Vermeij, and M. M. Medina. 2015. Reproductive natural history and successful juvenile propagation of the threatened Caribbean Pillar Coral *Dendrogyra cylindrus*. *BMC Ecology* 15:9. doi: DOI 10.1186/s12898-015-0039-7.

Miller, C. V., L. A. May, Z. J. Moffitt, and C. M. Woodley. 2020. Exploratory treatments for stony coral tissue loss disease: pillar coral (*Dendrogyra cylindrus*), NOAA Technical Memorandum NOS NCCOS 245 and CRCP 37. Charleston, SC.

Neely, K. L. 2019. Quick Look Report: *Dendrogyra cylindrus* spawning— August 2019. Nova Southeastern University.

Neely, K. L., C. Lewis, A. N. Chan, and I. B. Baums. 2018. Hermaphroditic spawning by the gonochoric pillar coral *Dendrogyra cylindrus*. *Coral Reefs* 37(4):1087-1092.

Neely, K. L., C. L. Lewis, and K. A. Macaulay. 2020a. Disparities in Spawning Times Between in situ and ex situ Pillar Corals. *Frontiers in Marine Science* 7:643. doi: 10.3389/fmars.2020.00643.

Neely, K. L., K. A. Macaulay, E. K. Hower, and M. A. Dobler. 2020b. Effectiveness of topical antibiotics in treating corals affected by Stony Coral Tissue Loss Disease. *PeerJ* 8:e9289. doi: 10.7717/peerj.9289.

Neely, K. L., C. L. Lewis, K. S. Lunz, and L. Kabay. 2021a. Rapid Population Decline of the Pillar Coral *Dendrogyra cylindrus* Along the Florida Reef Tract. *Frontiers in Marine Science* 8:434. doi: 10.3389/fmars.2021.656515.

Neely, K. L., C. L. Lewis, K. O'Neil, C. M. Woodley, J. Moore, Z. Ransom, A. Moura, K. Nedimyer, and D. Vaughan. 2021b. Saving the Last Unicorns: The Genetic Rescue of Florida's Pillar Corals. *Frontiers in Marine Science* 8:657429. doi: 10.3389/fmars.2021.657429.

Neely, K. L., C. P. Shea, K. A. Macaulay, E. K. Hower, and M. A. Dobler. 2021c. Short- and Long-Term Effectiveness of Coral Disease Treatments. *Frontiers in Marine Science* 8:675349. doi: 10.3389/fmars.2021.675349.

Neely, K. L. 2024. Status of the Pillar Coral *Dendrogyra cylindrus* on Florida's Coral Reef: 2020-2024, Nova Southeastern University: 4 pp.

NMFS. 2022. Staghorn coral (*Acropora cervicornis*), elkhorn coral (*Acropora palmata*), lobed star coral (*Orbicella annularis*), mountainous star coral (*Orbicella faveolata*), boulder star coral (*Orbicella franksi*), rough cactus coral (*Mycetophyllia ferox*), and pillar coral (*Dendrogyra cylindrus*) 5-year review. NOAA Fisheries Southeast Regional Office. <https://doi.org/10.25923/jyer-dv55>

O'Neil, K., K. Neely, and J. Patterson. 2018. Nursery management and treatment of disease-ravaged pillar coral (*Dendrogyra cylindrus*) on the Florida Reef Tract. Florida DEP, Miami, FL.

O'Neil, K. L., R. M. Serafin, J. T. Patterson, and J. R. K. Craggs. 2021. Repeated ex situ Spawning in Two Highly Disease Susceptible Corals in the Family Meandrinidae. *Frontiers in Marine Science* 8:669976. doi: 10.3389/fmars.2021.669976.

Precht, W. F., B. E. Gintert, M. L. Robbart, R. Fura, and R. van Woesik. 2016. Unprecedented Disease-Related Coral Mortality in Southeastern Florida. *Scientific Reports* 6:31374. doi: 10.1038/srep31374.

Shilling, E. N., I. R. Combs, and J. D. Voss. 2021. Assessing the effectiveness of two intervention methods for stony coral tissue loss disease on *Montastraea cavernosa*. *Scientific Reports* 11:8566. doi: 10.1038/s41598-021-86926-4.

Villalpando, M. F., A. Croquer, and R. I. Sellares-Blasco. 2021. First report of in situ survival of laboratory-reared offspring of the threatened species *Dendrogyra cylindrus* in the Caribbean. *Bulletin of Marine Science* 97(1):237–238.

Walker, B. K., N. R. Turner, H. K. G. Noren, S. F. Buckley, and K. A. Pitts. 2021. Optimizing Stony Coral Tissue Loss Disease (SCTLD) Intervention Treatments on *Montastraea cavernosa* in an Endemic Zone. *Frontiers in Marine Science* 8:666224. doi: 10.3389/fmars.2021.666224.