

REPORTING TEMPLATE FOR STONY CORAL TISSUE LOSS DISEASE

Introduction

Please provide a brief introduction on your organization's involvement in stony coral tissue loss disease monitoring.

Scope of Work

Please provide information on the research being conducted. This includes the methodology used, the sites visited, the dates when data were collected, sample size and the researchers/volunteers used to collect the data.

Survey Results

Please provide information on the results of your data collection. This would include:

- *List of diseases identified (this would not be limited to SCTLD but would include any reports of other diseases observed)*
- *Stage of SCTLD disease presence (e.g. Pre-Invasion, Invasion, Outbreak or Endemic, as per MPAConnect's Template Monitoring and Response Action Plan (Doyle & O'Sullivan, 2019))*
- *List of species affected by SCTLD*
- *Sample photos showing total tissue loss in affected corals*
- *Sample photos showing multiple lesions in affected corals*
- *Sample photos showing the progression of the disease on affected coral heads. E.g. time stamped photos of the same corals from the same angles and magnification for easy comparison over time.*
- *Information on the % prevalence seen at different survey sites*
 - *This can be calculated as the number of corals infected with SCTLD divided by the total number of corals with any live tissues, with or without SCTLD. Please note that the number of corals without SCTLD includes those corals that show no signs of any disease + those corals with signs of other diseases.*
 - *See example graph below (Figure 1)*

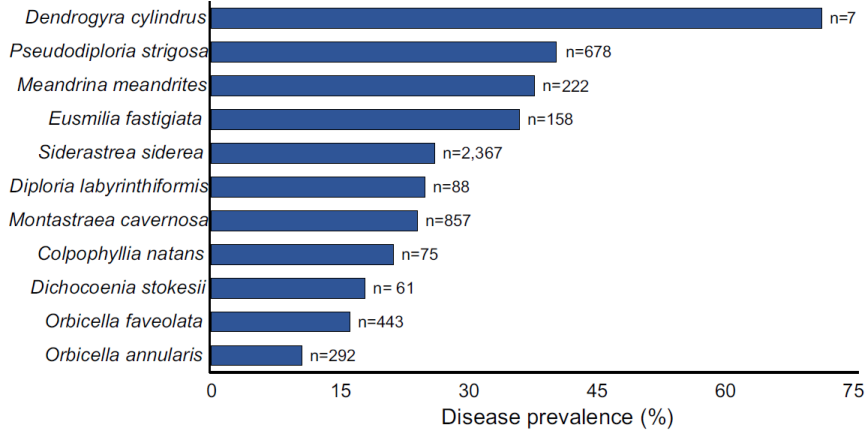


Figure 1: Prevalence of the stony coral tissue loss disease for the 11 most susceptible species across 82 reef sites in the Mexican Caribbean (n=number of colonies). (Alvarez-Filip et al., 2019)

- *Maps showing the progression / spread of the disease to different dive / survey sites. This could also include the dates of confirmed SCTLD cases at different sites.*
 - *Example map from Statia Marine Park showing affected dive sites (Figure 2)*



Figure 2. Sites in St. Eustatius affected by stony coral tissue loss disease.

Stakeholder Participation / Outreach

Please provide information on any stakeholder outreach initiatives that have been undertaken. This could include information on meetings with dive shops (e.g. date of meeting, number of participants, purpose of the meeting), media interviews and the creation of educational materials. Information on participation from volunteers, dive shops and other stakeholders in identifying, monitoring and reporting the disease's progression may also be included.



Treatment Protocol

If SCTLD has been identified, have any treatment methods been used to try and combat its progression? This may include the use of antibiotics on the reef as well as the decontamination of gear and more stringent methods of ballast water disposal. If methods have been implemented, please detail the methods used and their efficacy, and any results from monitoring the treatments.

Conclusion / Next Steps

Based on your survey findings please provide information on what your organization's next steps will be. This could include the need for additional research, more stakeholder outreach / education initiatives, mitigation/treatment methods.

Literature Cited

Alvarez-Filip L., N. Estrada-Saldívar, E. Pérez-Cervantes, A. Molina-Hernández and FJ. González-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.

Doyle, E. and C. O'Sullivan. 2019. Stony coral tissue loss disease template monitoring and response action plan for Caribbean marine natural resource managers. August, 2019, Key West, Florida.