SCTLD: Monitoring & Progression			
ASS3.	Judy Lang		
Car Vision Car Vi	2020-09-15 Atlantic and Gulf Rapid Reef Assessment	AGREA	
	Thanks for support: ORE	An experimental state and experimental and the state of t	
	MPAConnect Countless generous colleagues		
AGRRA			
1			

Exposure categories for coral reefs that are, or may be, affected by SCTLD.

Invasion	Outbreak	Endemic
1 - 7 months (often <3 months)	3 months - 1 year Disease Prevalence	1 - 4+ years
Low. Acute lesions in species most susceptible	High. Acute lesions in all suscptible species Coral Community	Low. Least susceptible corals with acute and chronic lesions
All species still present; species most susceptible start dying	Rapid transition to many early susceptible, and then progressively less, susceptible species	Few or no susceptible species remain. Coral cover reduced; proportion of non-susceptible species has increased Adapted from Neely, 2018

2



dying-or they may not !



brain coral PCLI



Lettuce corals and smooth flower corals may dieor may not yet die.

lettuc

4





3

Photography

High-resolution landscape-scale images that capture details of individual corals when enlarged can provide useful SCTLD data.



7

SCTLD: Tag* and Track Progression within Susceptible Corals with Repeat Photography Upper Photography 2019-11-19 Brain Coral (PSTR), Grand Bahama Island Al photos @ G. Halpern Try to maintain the same

camera lens, orientation and distance for each coral.

*The tag can be as simple as flagging tape! 2020-01-16

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SCTLD: Assess Spatial Extent₋₂

Use available knowledge: ask local divers if corals are dying. On linear reefs, can conduct spot checks, or manta tows if time allows, at intervals away from discovery site (red below), or away

SCTLD: Assess Spatial Extent_1



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SCTLD: Assess Spatial Extent_3

- Use local knowledge of the locations of : • particularly susceptible corals, especially if naturally rare and/or iconic;
- most important reef framework builders; and
- MPAs and other areas of value (e.g., as natural breakwaters, for tourism or recreation).

Also use any surveys or reports with species-level coral data (e.g., AGRRA, CARICOMP, GCRMN).

Chose further sites in which to conduct spot checks or, if time allows, roving diver surveys.

Pillar coral (DCYL) with SCTLD on (1) Aug. 4 and (2) Aug. 11, 2020. Note large increase in white = newly dead areas and in yellowish algal turfs (TA) on the previously dead skeleton in just 7 days. Photos © by T. Warrender.





11















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20



22

Many thanks also to Patricia Kramer for her efforts to continually improve the range of AGRRA's online offerings, in both English and Spanish,

&

for noticing that I had reversed slides 14 and 22 (shown here) when adding them to my MPA Connect webinar presentation for September 15, 2020.

These two images are now correctly located in this pdf.



