









Coral Abnormalities

Examine tissue loss patterns and features



What is a Coral Abnormality?

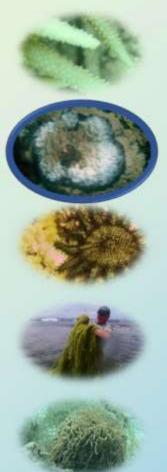


- Impacts such as:
 - Coral diseases
 - Non-thermal bleaching
 - Growth anomalies

 Coral disease occurrence is expected to increase in warming oceans



White Syndrome







Photos courtesy of R. Miller & L. Raymundo





Black Band Disease







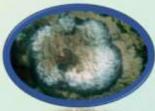
Look for distinct "band" lines

Photos courtesy of R. Miller & L. Raymundo



Brown Band Disease



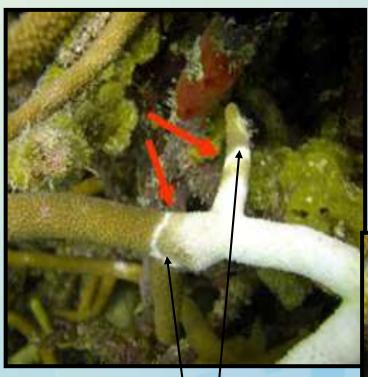


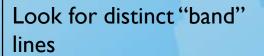














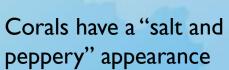
Photos courtesy of R. Miller & L. Raymundo



Skeletal Eroding Band













Other bleaching patterns (not thermal bleaching)





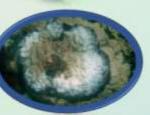


- Tissue still present
- Unusual patterns of bleaching that are not consistent with response to thermal stress



Growth Anomalies





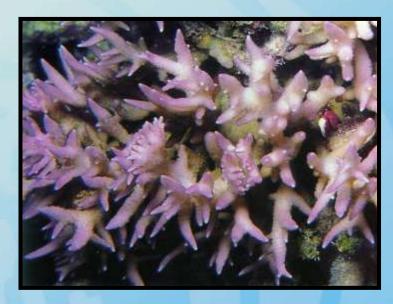






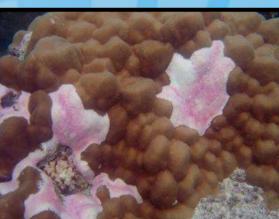


- **Excess skeletal** growth
 - -Paler tissue
 - -Enlarged calices
- Affects corallite structure, size, shape, density and color







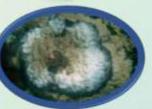




How to report Coral Abnormalities...

CORAL ABNORMALITY













Depth of observed coral abnormalities

At what depth(s) did you observe coral abnormalities? Include units (feet or meters)

Type(s) of coral affected

See guide below for photos of coral types

- Small/Branching
- Massive
- Large Branching/Pillar
- Foliose
- Staghorn
- Encrusting
- Soft Corals
- Other:















Small/Branching

Discrete, branching coral





Staghorn

- Distinct branches with sharp-pointing tips
- Pronounced corallites

Encrusting

Covers substrate in sheet formation adhering to hard surfaces





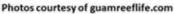
Soft Corals

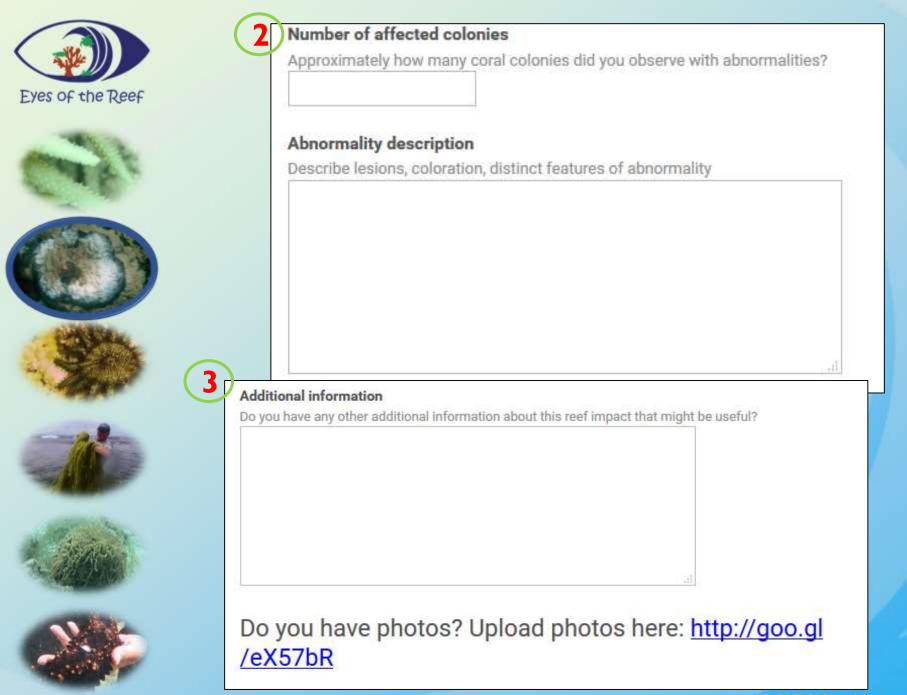
- Have feathery tentacles Do not have hard skeletons: flexible skeleton
- Flowy appearance in

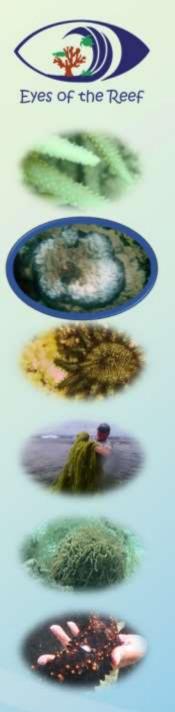


- Steep-sided ridges Polyps in valleys
- Aka "lettuce corals"









2 Number of affected colonies

Approximately how many coral colonies did you observe with abnormalities?

Abnormality description

Describe lesions, coloration, distinct features of abnormality

NOTE: It is NOT required to identify the coral disease or specific abnormality. A detailed description with photos is enough information.

Additional information

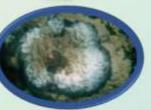
Do you have any other additional information about this reef impact that might be useful?

Do you have photos? Upload photos here: http://goo.gl/eX57bR



Let's practice - Abnormality #1















Guamreeflife.com

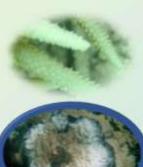
√Coral type affected?

√Number of colonies affected?

√Description?



Let's practice - Abnormality #2













√Coral type affected?

√Number of colonies affected?

√Description?

W Hoo



Abnormality Practice Answer Key



Abnormality #1:

Coral type affected: Massive

Number of colonies: one



Description: Distinct line around colony, top half of coral is dead/white and bottom half has color.



Abnormality #2:

Coral type affected: Massive

Number of colonies: one



Description: Distinct black band around colony; top half is dead and bottom half looks normal OR Looks like black band disease.

