

Scientist Meeting Notes

Friday January 26, 2018 5-6 pm

Team Coconut Crab

Attendees:

Codey Walker
Matthew Finzel
Alex Osterholzer
Brett Kriz
Michael Bandrowski
Scott Xiong
Cindy Robacker
Micaiah Grossmann
Lavanya Rajesh Kumar

Scientist

Natalie Rosser

Location

Library Room 234

Duration

30 minutes

Contacted via

Zoom

Discussion Items

What is App for?

Initially used in Australia can maybe expand

Great barrier reef - made up of primarily hard corals. Reproduce once per year. Happens over very short period. 3 nights. Thousands of corals spawning at same time.

Mass spawning event, important for regeneration. only happens at night.

All timed to happen at certain time of year when environmental conditions allow.

Events have been shifting in timing

Whether corals are shifting in ocean just as this change is happening on land

develop an app where citizen scientists can record timing of spawning events

10 year period. timing of mass spawning events has changed.

Currently occurs in november could see shift to december to january.

All corals spawn together in one month. could corals start spawning farther apart?

How will citizen scientists witness?

GBR not close to shore and is 2000 kilometers long. Diving companies run trips out to GBR to coral spawning. Use divers to get tourists to use app.

Island resorts on GBR

scientists as well. stations along GBR watching for this activity.

MAINLY TOURISTS

How will app work?

No wifi : upload data following day. look at reef at night. next day log on to computer and log on to app and record location GPS, Time (DATE), photo or two.

Photo important - good data validation. lots of things spawn on reef, want to be sure its corals.

create photo gallery of uploaded photos for other people to see, link to instagram, showcase photos.

RECORD DATE, TIME, LOCATION, photos, number of colonies spawning, temperature

wondering if there is too much data being asked for.

Sea state might not be that important - theory that corals only spawn when seas are calm

BACKEND

Over 3 years, 4 years, 5 years someone can look at each date over time.

see if its changed over each location. What kind of variation is there?

excel file with each category

What do citizen scientists get out of this?

for the good of the reef in the long term.

Photo gallery

google map so people can see where data is being collected from