



Team Coconut Crab

Final Design Presentation



System and Users

- An app to monitor and record mass spawning events on Australia's coral reefs.
- Using this app, citizen scientists will upload their observations and photos to a database, allowing scientists to track the timing of mass coral spawning over time, and potentially identify long-term changes in the patterns of mass coral spawning.
- The app will be used by diving companies and their clients, resort staff and their clients, and scientists who make a hobby viewing coral spawning.

Home Page

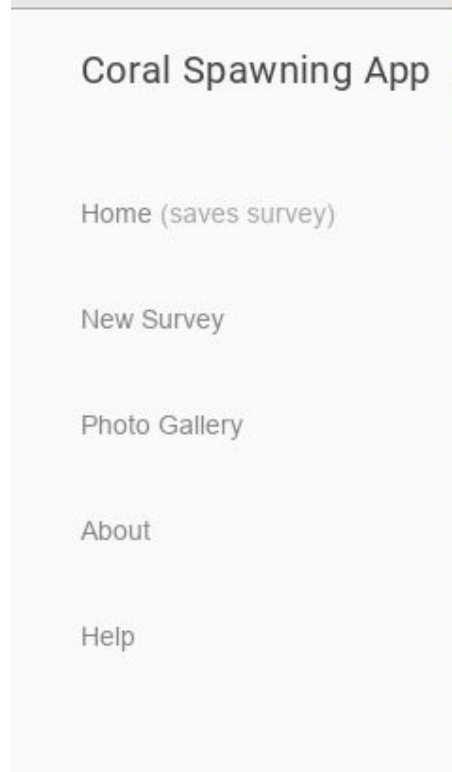
☰ Coral Spawning App

Local Reports

Uploaded Reports



Side Menu



Survey

☰ Coral Selection

- Unknown
- Branching
- Plate
- Boulder
- Acroporidae
- Faviidae
- Fungiidae
- Merulinidae
- Mussidae
- Pectinidae
- Poritidae
- Pocilloporidae

Number of colonies spawning

DELETE NEXT

☰ Sea State Selection

Sea State

Water Temperature Units

PREVIOUS DELETE NEXT

☰ Additional Information

Additional comments?

Email? (For newsletter)

PREVIOUS DELETE NEXT

Example .CSV file

2018-03-04 05:34:32 UTC	18.2871° S	147.6992° E	(6-10)	Unsure	70 F	slight ripples
2018-04-03 11:25:54 UTC	18.2871° S	147.6992° E	(6-10)	branching	71 F	small waves
2018-04-04 15:45:57 UTC	18.2871° S	147.6992° E	(11-20)	plate	23 C	mirror calm
2018-04-04 16:45:57 UTC	18.2871° S	147.6992° E	(0-5)	Unsure	72 F	slight ripples
2018-04-04 17:45:57 UTC	18.2871° S	147.6992° E	(20-50)	Pectinidae	25 C	medium waves

About Page



About Us

Remaining components to finish

- The survey must include a section to upload photographs
- Extra information in survey (i.e. Date / Time, and organization)
- On post, update database
- Download CSV
- Add text to About page and Help page
- Revamp home page
- Implement a photo gallery
- Implement google maps API

Potential Usability Concerns

- Might not be mobile friendly
- Visibility in high sunlight
- Intuitive - easy to use for average people