

CoralWatch Data Portal

CoralWatch Global Database and Interactive Data Map

INSTRUCTIONS

for entering, editing, downloading data, and analysing your results.

For questions, contact CoralWatch at info@coralwatch.org

ENTERING DATA



Home About ▾ Monitoring ▾ **Data ▾** Education ▾ Outreach ▾ News ▾ Projects ▾ Support ▾ Shop ▾  



Reef name and country: *Mudjimba Island NW Reef, Sunshine Coast Australia*

Coordinates: *27° 17' 22.9" S 153° 41' 12.9" E*

Your name: *Helen*

Date and time: *09/17/2019*

Depth: *6.8m*

Sea temp: *13*

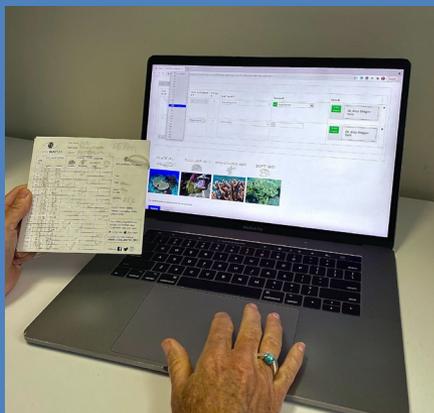
Sunny / cloudy / raining

Walking / snorkelling / diving (please circle)

Your DATA is important to us, transfer your findings using "CoralWatch" data entry apps

or enter your data online at WWW.CORALWATCH.ORG

Coral NO.	COLOUR CODE		CORAL TYPE (please tick)			
	Lightest	Darkest	Boulder	Branching	Plate	Soft
1	<i>C5</i>	<i>C6</i>				
2	<i>E4</i>	<i>E5</i>				
3	<i>E4</i>	<i>E5</i>	X	X		
4	<i>E5</i>	<i>E6</i>	X	X		
5	<i>E3</i>	<i>E4</i>				
6	<i>D4</i>	<i>D5</i>	X	X		
7	<i>E4</i>	<i>E5</i>	X	X		
8	<i>E4</i>	<i>E5</i>	X	X		
9	<i>E5</i>	<i>E6</i>	X	X		
10						
11	<i>E4</i>	<i>E5</i>	X	X		
12	<i>E4</i>	<i>E5</i>	X	X		
13						
14	<i>E4</i>	<i>E5</i>	X	X		
15	<i>E5</i>	<i>E6</i>				X
16	<i>E5</i>	<i>E6</i>	X			
17	<i>E3</i>	<i>E4</i>				X
18	<i>E4</i>	<i>E5</i>	X	X		
19	<i>E4</i>	<i>E5</i>	X	X		
20	<i>E4</i>	<i>D5</i>	X			

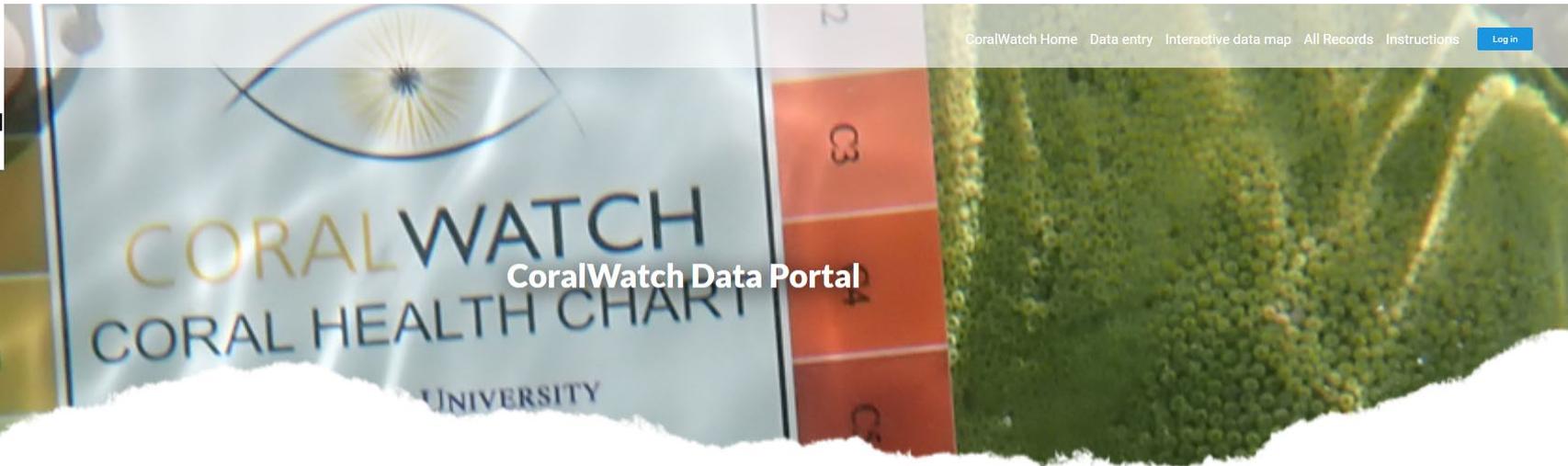


Go to WWW.CORALWATCH.ORG
DATA
ENTER DATA

USE COMPUTER OR MOBILE
PHONE



(CoralWatch) CW global DATA on ALA (Atlas of Living Australia)



CoralWatch Data Portal



Add a random survey

Most used CoralWatch survey method. Select corals randomly.

Swim in an imaginary line and choose the closest coral after every second fin kick.



UPLOAD YOUR DATA



CoralWatch Data

View all worldwide CoralWatch data on the map or in the survey list.

Use the filters to find specific data



VIEW ALL DATA



Interactive Data Map

Interact with CoralWatch data on the map

Use the filters to find specific data

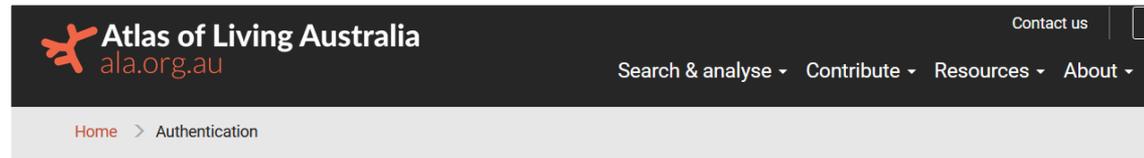


VIEW RESULTS



CW global DATA - Login to ALA

- To start, you will need to create an account.
- If you have an ALA account already you can use your existing ALA 'login' to upload CoralWatch data

The image shows the login page of the Atlas of Living Australia. At the top center is the ALA logo. Below it is the heading "Sign in to the ALA" and a link to "Terms of Use". There are four social login buttons: "Sign in with AAF" (orange), "Sign in with Google" (red), "Sign in with Facebook" (blue), and "Sign in with Twitter" (light blue). To the right of these buttons are two input fields: "your email" and "password". Below the password field are checkboxes for "Remember Me" and a link for "Forgot password?". At the bottom is a large orange "LOGIN" button and a link for "Sign up now.".

DATABASE – ALA Menu instructions

CoralWatch Home Data entry Interactive data map All Records My Records Instructions Logout



Learn more about the CoralWatch Program



ENTER DATA

Real name last name: *Mudjirana Island*
 Location: *NW Reef, Sunshine Coast Australia*

COLOUR CODE CORAL TYPE (check box)

Coral No.	Light	Dark	Block	Branch	Plate	Soft
1	CA	CB				
2	CA	CB				
3	CA	CB				
4	CA	CB				
5	CA	CB				
6	CA	CB				
7	CA	CB				
8	CA	CB				
9	CA	CB				
10	CA	CB				
11	CA	CB				
12	CA	CB				
13	CA	CB				
14	CA	CB				
15	CA	CB				
16	CA	CB				
17	CA	CB				
18	CA	CB				
19	CA	CB				
20	CA	CB				

Other fields: Your name: *Helen*, Date and time: *21/7/2018*, Depth (m): *6.7*, Sea temp: *15*, Survey/ study/ raising: *Monitoring / monitoring / testing / general work*

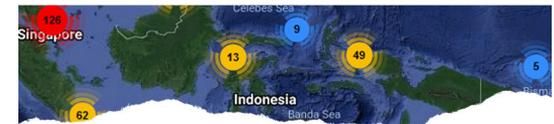
INTERACTIVED DATA MAP available on CoralWatch



ALL DATA from global database



MY DATA entered on ALA database



CoralWatch Global Database Instructions

Find Global Database instructions online

Database – Overview DATA ENTRY page

1. Reef Visit Details

Select your group name from the dropdown menu. If you have entered data previously, please only create a new group name if you have not entered data previously.

Group name

Participating as

Submitted by

Observation date

Time

Light condition

Please indicate the water depth when the coral were surveyed, either in metres or feet, or indicate if a depth measurement was not available.

Depth (metres) Depth (feet) Not available

Please enter the water temperature in either degree celcius or fahrenheit, or indicate if a measurement was not available.

Water temperature (deg. C) Water temperature (deg. F) Not available

Justify

Comments

Photos of the reef surveyed Or, drop images here

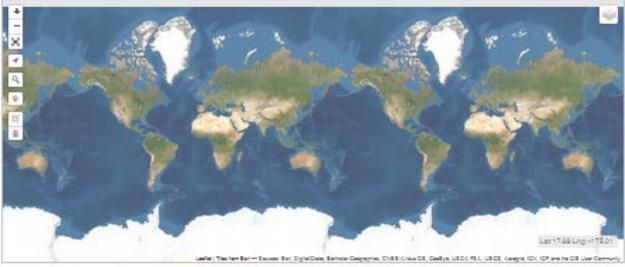
2. Reef Name and Location

Country of survey

Select existing reefs from the dropdown list. If your reef is not on the list, you can create one and add it to the list for future use, but please avoid creating duplicate reefs.

TO CREATE A NEW REEF LOCATION:
Zoom into the map, click on the pin marker tool (left), then first on the map the location of your survey and click on it. You will be asked to create a site name, start with the reef name, followed by the area (e.g. slope, reef, cove or lagoon, between day). Click save to submit.

Location



Use a GPS device to obtain coordinates

3. Coral Observations

Coral No. <input type="text" value="1"/>	Colour Code Lightness <input type="text" value="Please select"/>	Colour Code Darkness <input type="text" value="Please select"/>	Abundance <input type="text" value="0"/>	Coral Type <input type="text" value="Please select"/>	Species <input type="text" value=""/>	Photos <input type="text" value="Use images"/> Or, drop images here
<input type="text" value="Use images"/>						



By submitting you are agreeing with the "Terms of Use."

DATA ENTRY – Reef Visit Details

CoralWatch

Enter your Coralwatch Data

Remember to submit your survey (bottom of page) when completed.

Reef Visit Details

Select your group name from the drop-down menu if you have entered data previously. Please only create a new group name if you have not entered data previously.

Group name *

Participating as *

Submitted by

Observation date *

Time *

Light condition *

Please indicate the water depth when the corals were surveyed, either in metres or feet, or indicate if a depth measurement was not available.

Depth (metres) Depth (feet) Not available

Please enter the water temperature in either degrees celcius or farenheit, or indicate if a measurement was not available.

Water temperature (deg. C) Water temperature (deg. F) Not available

Activity *

Comments

Photo of the reef surveyed

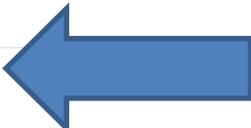
+ Add images

Or, drop images here

- Enter all your metadata from your data slate in this section.
- **GROUP NAME.** Select your group name from the drop-down menu OR contact CoralWatch if you want to be listed as a group. If you do not belong to a group, enter your own name.
- You can **upload a photo** of the reef you surveyed.

DATA ENTRY – Reef Name and Location

Reef Name and Location

Country  Australia 

SEARCH and SELECT EXISTING REEFS from the location drop-down list.

If your reef is not on the list, please email CoralWatch at info@coralwatch.org and provide the GPS Coordinates and reef name.

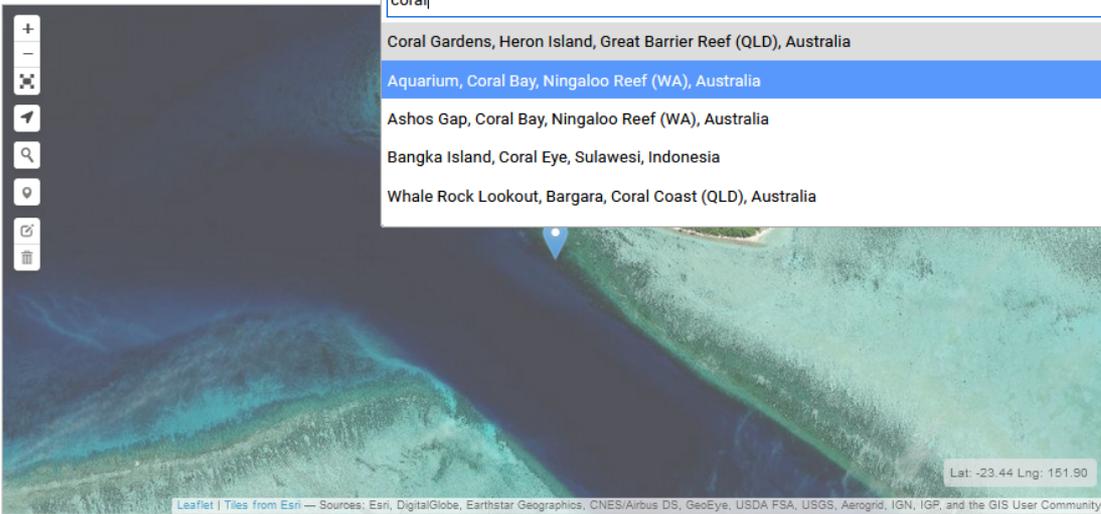
For GPS, please use WGS84 decimal degrees format. For reef name, include the area and country name.

The new reef location will be added to the database ASAP.

Location *

Select a location

- Coral Gardens, Heron Island, Great Barrier Reef (QLD), Australia
- Coral Gardens, Heron Island, Great Barrier Reef (QLD), Australia
- Aquarium, Coral Bay, Ningaloo Reef (WA), Australia**
- Ashos Gap, Coral Bay, Ningaloo Reef (WA), Australia
- Bangka Island, Coral Eye, Sulawesi, Indonesia
- Whale Rock Lookout, Bargara, Coral Coast (QLD), Australia



Leaflet | Tiles from Esri — Sources: Esri, DigitalGlobe, Earthstar Geographics, CNES/Airbus DS, GeoEye, USDA FSA, USGS, AeroGRID, IGN, IGP, and the GIS User Community

Existing reefs

- Start typing keywords to **find your reef**
- Once you select the reef from the drop-down list, it will automatically appear as a marker on the map including the GPS coordinates

New reefs can only be added by CoralWatch

If your reef is not listed, provide GPS coordinates, (using WGS84 decimal degrees) name of reef, island/area and country to info@coralwatch.org

DATA ENTRY – Coral Observations

Coral Observations

Coral No.	Colour Code Lightest *	Colour Code Darkest *	Average.	Coral Type *	Species	Photo
1	Please select	Please select	0	Please select		 Or, drop images here

+ Add a row

PLATE (PL) BO



By submitting you are agreeing with the [Terms of Use](#).

Submit Cancel

Select Dark colour code value

- B4
- B5
- B6
- C4
- C5
- C6
- D4
- D5
- D6
- E4
- E5
- E6

Clear OK

Enter your survey records in this section. Create a new row for each coral surveyed. Use the pop up for darkest value

Optional:

- Include species name or upload a photo of individual recordings

DATA ENTRY – Coral Observations

You can upload a photo of the reef you surveyed.

Photo of the reef surveyed ?



Title:*

497.JPG

Date Taken: ? *

13-08-2010



Licence: ?

Creative Commons Attribution v

Attribution: ?

Notes: ?

File Name:

497.JPG (1.21 MB)

✕ Remove

Especially at time of bleaching, reefscape photos added to a survey are very valuable to estimate the extent of bleaching on a reef.

+ Add images

Or, drop images here

DATA ENTRY – Coral Observations

You can **upload a photo of individual corals** you surveyed

Coral No. ⓘ	Colour Code Lightest ⓘ *	Colour Code Darkest ⓘ *	Average. ⓘ	Coral Type ⓘ *	Species ⓘ	Photo ⓘ
2	B3	C5	4	Boulder corals	 Goniastrea ⓘ	 Title: * NB_2_16.JPG * Date Taken: ⓘ * 01-10-2014 ⓘ Licence: Creative Commc v ⓘ Attribution: ⓘ Notes: ⓘ File Name: NB_2_16.JPG (3.04 MB) ✕ Remove + Add images <div>Or, drop images here</div>

Very useful if you are interested in monitoring individual corals over time and setup a permanent transect.

DATA ENTRY – Coral Observations

NEW! Enter species names (optional)

	Species ⓘ
▼	✓ Goniastrea ⓘ



If you know the species of individual corals you monitored you can enter the names at genus and species level and your data will link to other data available on this particular species in the ALA.

DATA ENTRY – SUBMIT

Once you have entered all your survey results, click submit to save your entries.



By submitting you are agreeing with the [Terms of Use](#).

Very important to submit, otherwise your data will not appear.

EDIT DATA – My Records



Filters Refine

Country
Reef Name
Group
Type of Participating Group
Surveyor
Survey Date
Coral type
Survey Method
Type of Activity
Water depth in Metres
Water depth in Feet
Water temperature in C
Water temperature in F
Light conditions

Search records Search Download

Applied Filters:

Found 48 record(s) Indicates that only project members can access the record Indicates species absence record

Bulk actions Delete Embargo Release

Showing 1 to 30 of 48 1 2 > Select pencil to edit your survey Show 30

Survey Date	Survey name	Country	Reef Name	Group name	Action	Select item
22/08/2024	CoralWatch Random Survey	Australia	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch Ambassadors	🔍 ✎ 🗑️	<input type="checkbox"/>
22/08/2024	CoralWatch Random Survey	Australia	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch	🔍 ✎ 🗑️	<input type="checkbox"/>
22/08/2024	CoralWatch Random Survey	Australia	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch	🔍 ✎ 🗑️	<input type="checkbox"/>
21/08/2024	CoralWatch Random Survey	Australia	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch	🔍 ✎ 🗑️	<input type="checkbox"/>

NOTE!

Only surveys entered on the ALA database will appear in **My Records**
CoralWatch data from 2003-2020 can be found by using filters; search for your name, reef e.g. See instructions on next slide.

FIND all your DATA on ALA – Using filters

CoralWatch Home Data entry Interactive data map **All Records** My Records Instructions Logout

Search records Search

All records

Filter results

Refine Clear all

+ Country

+ Reef Name

- Group

- Oceans 2 Earth (157)
- Coral Watch Teacher P D (145)
- Coral Watch (124)
- Reef Teach (106)
- Reef Check Australia (100)
- Coral Watch Ambassadors (97)
- Small World Journeys (75)
- Unknown (72)
- [choose more...](#)

+ Type of Participating Group

- Surveyor

- R S R C U Q (193)
- O 2 E T K L (156)
- Administrator (136)
- Abby (106)
- S U R G (89)

O 2 E T K L (156)

List Map Images Graphs

Found 3633 record(s)

Bulk actions - Delete Embargo Release Download

Showing 1 to 10 of 3633

10

1 2 > >>

Survey Date	Survey name	Country	Reef Name	Group name	Action	Select item
10/08/2021	CoralWatch Random Survey	Australia	Big Woody, Hervey Bay (QLD)	CoralWatch	View Edit Delete	<input type="checkbox"/>
04/08/2021	CoralWatch Random Survey	American Samoa	Briggs Reef, Great Barrier Reef (QLD)	CoralWatch	View Edit Delete	<input type="checkbox"/>
17/02/2021	CoralWatch Random Survey	Australia	Lady Musgrave Island, Lagoon, Great Barrier Reef (QLD)	Mountain Creek State High School	View Edit Delete	<input type="checkbox"/>
17/02/2021	CoralWatch Random Survey	Australia	Lady Musgrave Island, Lagoon, Great Barrier Reef (QLD)	Mountain Creek State High School	View Edit Delete	<input type="checkbox"/>

Using filters to find specific surveys

1. Select ALL Records in menu bar
2. Use filters, find your group or surveyor name
3. **Refine your selection** and the list will automatically update
4. You can narrow your findings using more filters e.g. country, reef name, date, activity
5. Select and download as a CSV file

VIEW DATA RESULTS - INTERACTIVE DATA MAP



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WWW.CORALWATCH.ORG

Enter Data

Interactive Data
Map

Database

Instructions

Data Reports

Or use menu bar on ALA

[CoralWatch Home](#) [Data entry](#) [Interactive data map](#) [All Records](#) [My Records](#) [Instructions](#) [Logout](#)

A platform that shows real-time data and allows you to explore coral health surveys conducted around the world, providing direct feedback on colour, coral type, average colour score, and potential bleaching.



'ALL DATA' interactive data map

The screenshot displays the CoralWatch interactive data map. The map is centered on the Pacific Ocean, showing coral reefs globally. Blue circular markers of varying sizes are placed on the map, each containing a number representing the number of surveys conducted in that area. A red arrow points to the 'All data' filter button on the left sidebar. A pop-up window on the right provides instructions and logos for The University of Queensland Australia and CoralWatch.

Pop-up Window Content:

THE UNIVERSITY OF QUEENSLAND AUSTRALIA **CORALWATCH**

Welcome to the CoralWatch database interactive map, a platform that shows real-time data and allows you to explore coral health surveys conducted around the world.

You are currently in "All data" mode, the map displays all surveys conducted globally.

Click on a blue marker to view data results for colour distribution, coral type and average colour score data for the surveys conducted in that area.

Zoom in further and select individual reefs or individual surveys in the pop-up window.

Design by joshpassenger@gmail.com

Don't show me this again

This map displays coral reefs globally, each represented by a marker. Click on a marker to view survey results. Zoom further to view individual reefs or surveys.

'POTENTIAL BLEACHING' interactive data map



This selects those coral reefs (red marker) where potential bleaching may have occurred. Click on a marker to view details about the CoralWatch surveys conducted in that area.

FEATURES

Satellite ▾

Heron Island, Canyons, Gre ▾

or map

1 Apr 2024 - 30 Sep 2024

Search reef, type name

Select date range

Click on a blue circle to view data results for colour distribution, coral type and average colour score data for the number of surveys conducted in that area.

Full screen

Link copied to clipboard

Reset view

All data mode info

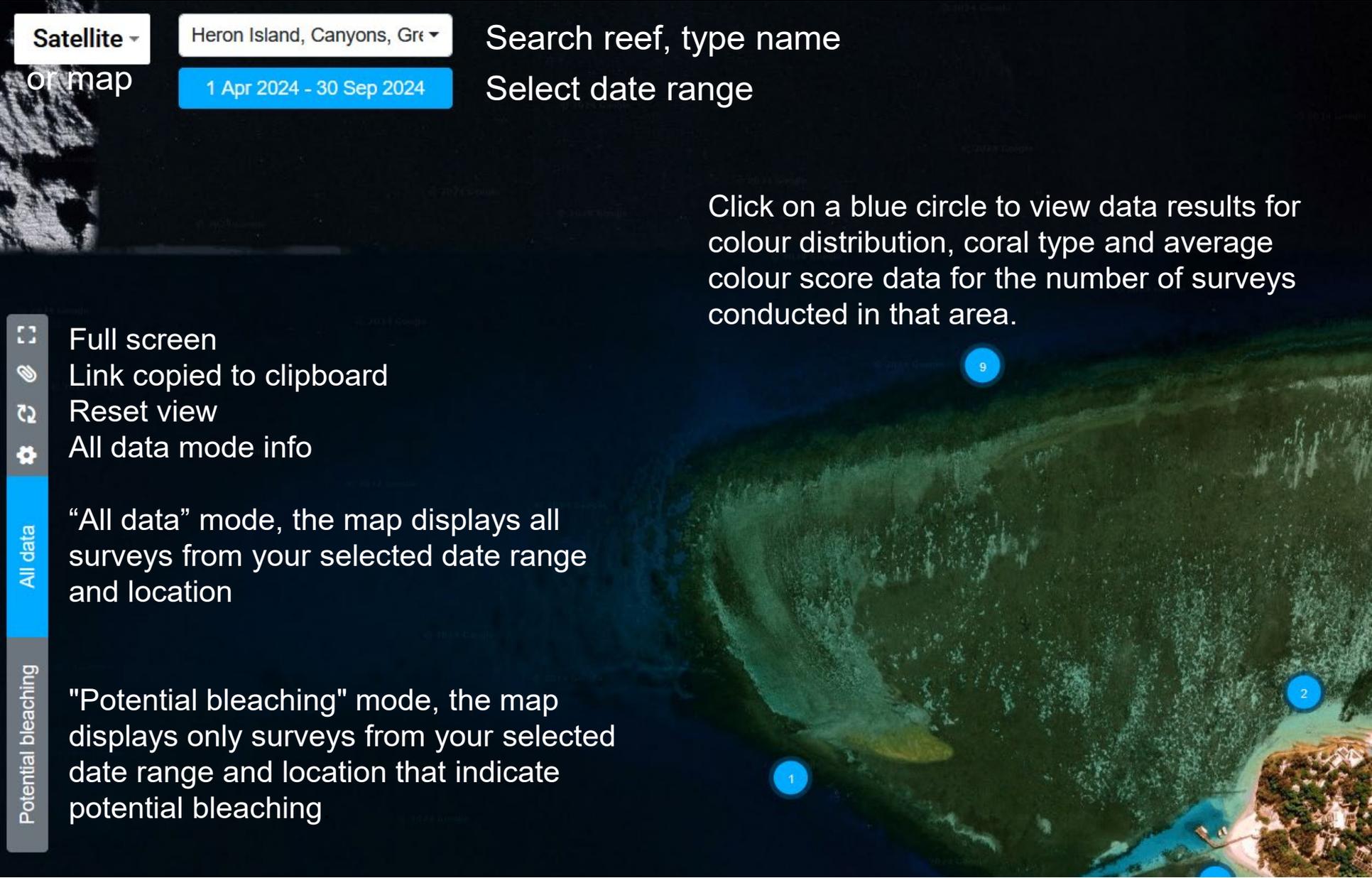
“All data” mode, the map displays all surveys from your selected date range and location

“Potential bleaching” mode, the map displays only surveys from your selected date range and location that indicate potential bleaching



All data

Potential bleaching



Search for a site

FIND YOUR DATA

Search for your location and use date range

The screenshot shows the CoralWatch interface. A search bar at the top left contains the text 'heron'. Below it, a list of search results is displayed, including 'Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia' and 'Coral Gardens, Heron Island, Great Barrier Reef (QLD), Australia'. A 'Filter surveys by date' dialog box is open, showing a date range of 'Dec 2022 - Nov 2023'. The dialog box includes a calendar view for December 2022 and January 2023, with the date '1' selected in December 2022. A red arrow points from the 'Date range' label to the date range input field in the dialog box.

Date range

Previous 3 Months	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
Previous 3 Months	27	28	29	30	1	2	3	25	26	27	28	29	30	31
Previous 6 Months	4	5	6	7	8	9	10	1	2	3	4	5	6	7
Previous 12 Months	11	12	13	14	15	16	17	8	9	10	11	12	13	14
Previous 18 Months	18	19	20	21	22	23	24	15	16	17	18	19	20	21
Previous 2 Years	25	26	27	28	29	30	31	22	23	24	25	26	27	28
Previous 5 Years	1	2	3	4	5	6	7	29	30	31	1	2	3	4
Previous 10 Years														
All time														
Custom Range														

VISUALIZE YOUR DATA

Select what you would like to visualize your data

Satellite

Blue Pools, Heron Island, QLD

Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia

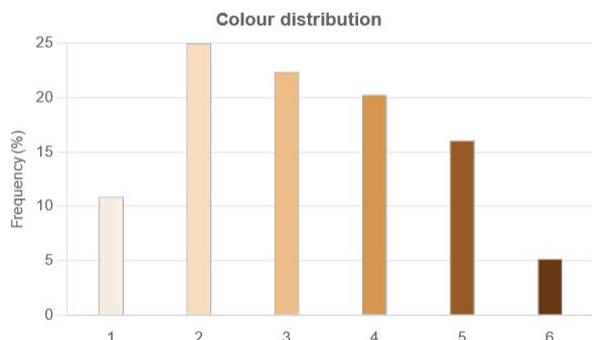
Number of surveys: 8 (1 Apr 2024 and 30 Sep 2024)

Colour and type

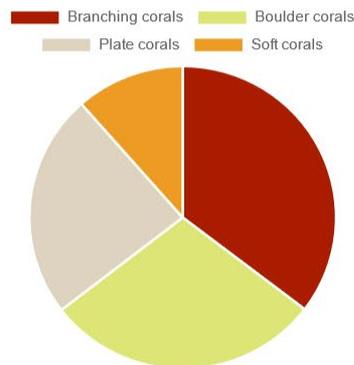
Average colour score

List of sites

List of surveys



This graph shows the frequency of ALL coral colours at this location.
If the frequency of 1's is high, this survey site may be potentially bleached.

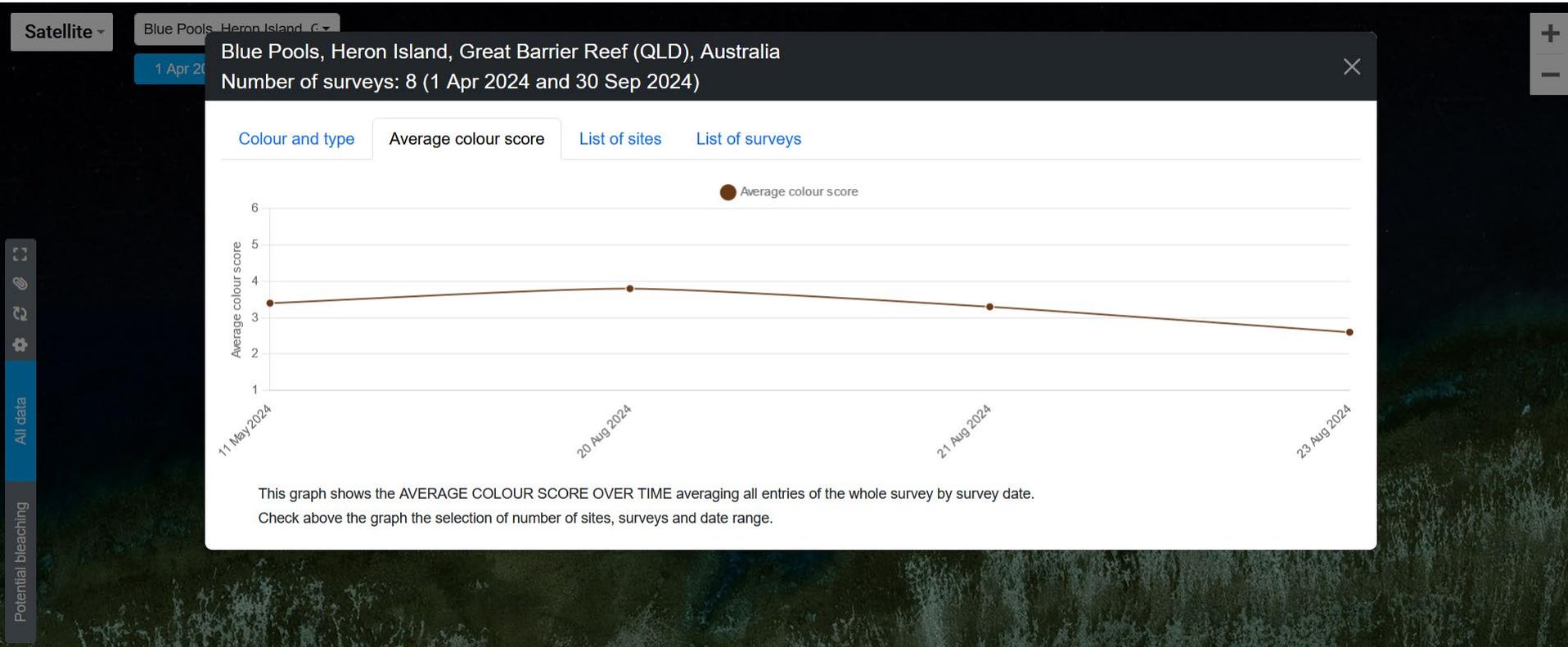


This graph shows the coral type composition for all surveys at this location.

The frequency of coral colours at the selected location for number of surveys

The coral type composition for all surveys at the selected location

AVERAGE COLOUR SCORE OVER TIME



Average colour score over time per month, including results from the selected number of sites, surveys and date range

LIST OF SITES / LIST OF SURVEYS

Satellite ▾ Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia
1 Apr 2024

Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia
Number of surveys: 8 (1 Apr 2024 and 30 Sep 2024)

Colour and type Average colour score List of sites List of surveys

Download selected Download all

You can download your data here in a csv file

Site name	Location	Number of surveys
Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	151.92266, -23.43422	8

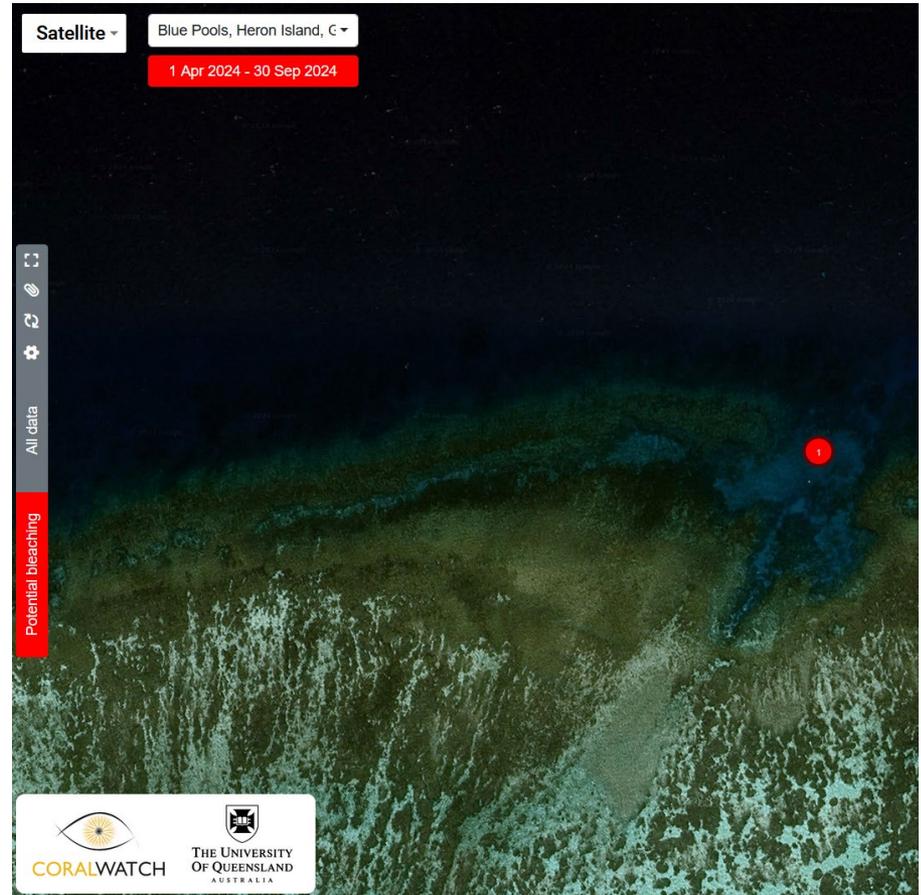
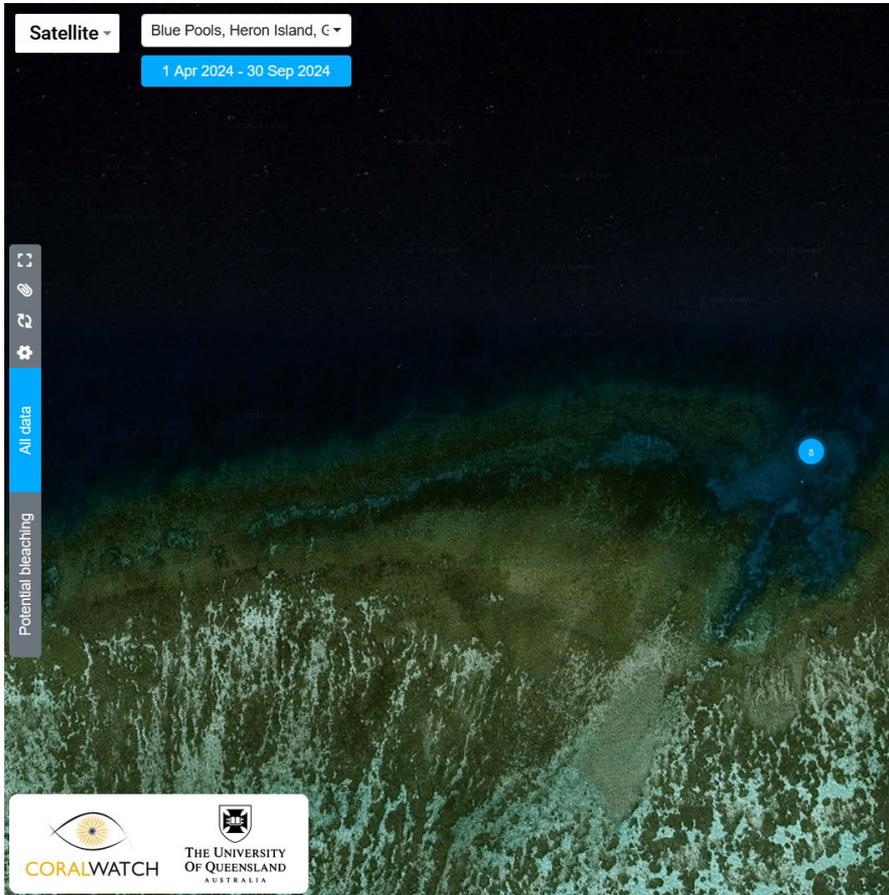
Satellite ▾ Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia
1 Apr 2024

Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia
Number of surveys: 8 (1 Apr 2024 and 30 Sep 2024)

Colour and type Average colour score List of sites List of surveys

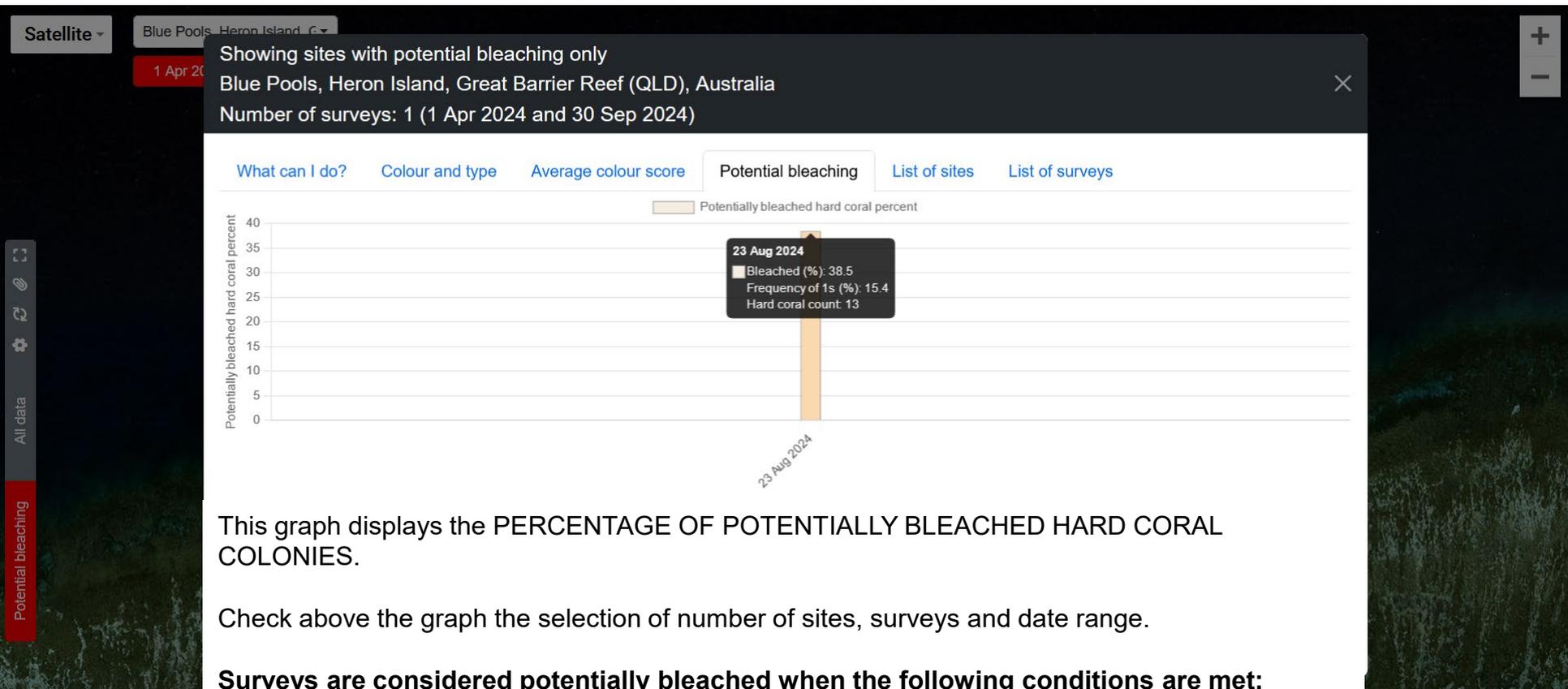
Survey date	Site name	Recorded by
24 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch Ambassadors
22 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch
22 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch
22 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch
22 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch Ambassadors
21 Aug 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch
12 May 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	CoralWatch
10 Apr 2024	Blue Pools, Heron Island, Great Barrier Reef (QLD), Australia	evans river k-12 school

POTENTIAL BLEACHING MODE



For the period selected (1 April 2024 – 30 Sep 2024) there are 8 surveys completed of which 1 is indicating potential bleaching

POTENTIAL BLEACHING MODE



This graph displays the PERCENTAGE OF POTENTIALLY BLEACHED HARD CORAL COLONIES.

Check above the graph the selection of number of sites, surveys and date range.

Surveys are considered potentially bleached when the following conditions are met:

- A survey includes at least 10 hard corals AND
- At least 20% of the recorded colour scores are a 1 ([check colour graph](#)) OR
- At least 20% of the recorded coral colonies have an average colour score of <2.1

FAQ's – What if I discover bleaching?

Actions you can take

- Conduct additional CoralWatch surveys to confirm if a bleaching event is occurring.
- Spread the word – inspire others to help monitor your reefs (e.g. Facebook, Twitter).
- Contact your local reef management group to further investigate.

FAQ's – Why your data is valuable?

- You can help to identify locations of **POTENTIAL BLEACHING** and take further action
- Your data helps scientists and managers to understand where and when bleaching takes place and if corals recover.