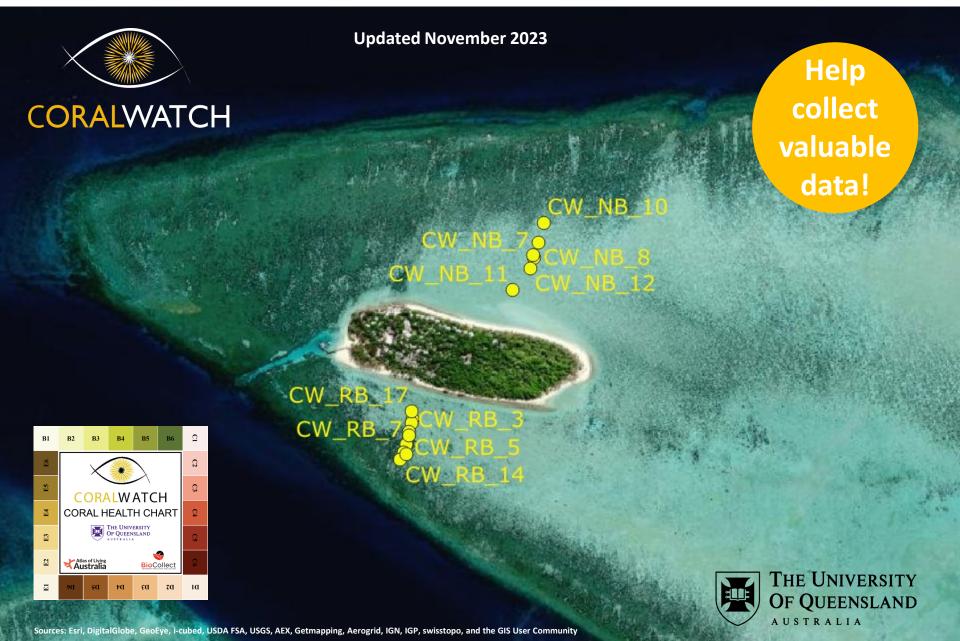
CORALWATCH PERMANENT TRANSECTS

NORTH BEACH AND RESEARCH BEACH, HERON ISLAND, QUEENSLAND, AUSTRALIA



HELP CORALWATCH COLLECT VALUABLE DATA!

CoralWatch established two permanent transects in October 2014; one at NORTH BEACH and one at RESEARCH BEACH. The transects consist of coral colonies that have been identified and tagged so they can be monitored regularly using the Coral Health Chart. The Coral Health Chart measures the colour of the coral colonies as an indicator of coral health. The colour of the coral colony can change due to coral bleaching, disease, seasonal variation, fresh water or other impacts.

Example of a tagged colony



Individual Coral-ID-sheets provide the info and photos needed to help locate the coral. Check out remarks for latest updates.

North Beach 7 - Fingers







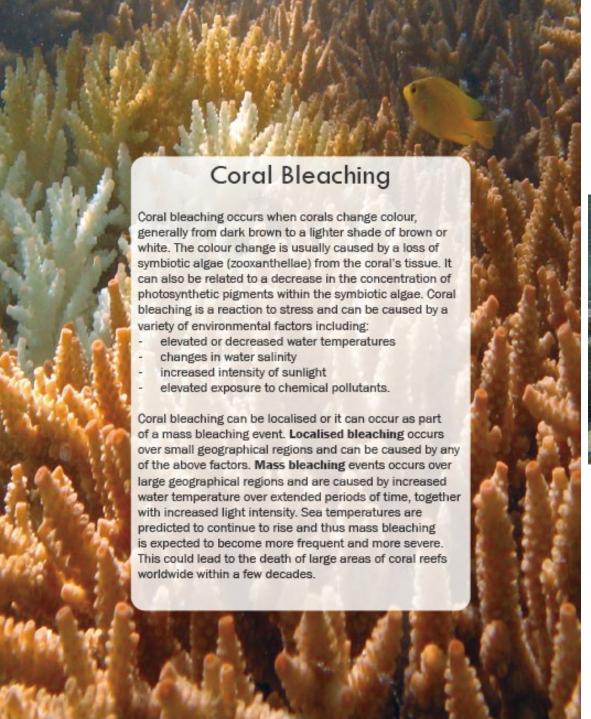






May 2017 - 25% of the colony alive





Coral bleaching 2019

During the last coral bleaching event, sadly half of the corals of the CoralWatch permanent transects were impacted and several died.



In November 2020 together with Sunshine Beach SHS we added four new corals to the transect at Research Beach. Two corals were added at North Beach.



Coral Health Chart

The Coral Health Chart measures the colour of the coral colonies as an indicator of coral health. The colour of the coral colony can change due to bleaching, disease, seasonal variation, fresh water or other impacts.



CITIZEN SCIENTISTS protecting reefs

There are not enough scientists to monitor all the world's reefs, and this is where you can help! CoralWatch uses the Coral Health Chart to measure changes in coral colour associated with coral bleaching. The chart is easy to use and allows anyone to get involved without the need for special training. Simply match the colours on the chart with the colours of the reef and record your coral type on a waterproof data slate. All data from over 80 countries is available online in our global database.

The Coral Health Chart is used by dive centres, school groups, government organisations, scientists, tourists and individuals. Don't wait for coral bleaching to occur, monitoring healthy reefs is also important. To get started, request your initial free Coral Health Chart online.



Do-It-Yourself instructions

Pick up a copy from Heron Island Research Station or download from

WWW.CORALWATCH.ORG

(https://coralwatch.org/index.php/ monitoring/monitoring-materials/)



CoralWatch Coral Health Chart Instructional Video

https://youtu.be/sPP8SNInJ1Y

INSTRUCTIONS for data collection PERMANENT TRANSECT

- 1. If you are not familiar with CoralWatch, read the CoralWatch 'Do It Yourself kit'.
- 2. Get ready for your CoralWatch reef walk. Don't forget to bring:
 - Laminated set of CoralWatch photo ID sheets and permanent transect maps
 - GPS with CoralWatch coordinates (collect from the scientific officer at the station)
 - Coral Health Chart
 - CoralWatch Permanent Transect Datasheets (North Beach and/or Research Beach) and pencil
 - Underwater viewer
 - Appropriate safety equipment (sun protection, enclosed shoes or booties)
- 3. Once in the field, use the CoralWatch GPS coordinates and photo ID-sheets to find each individual coral colony labelled with a yellow tag.
- 4. Use the Coral Health Chart and measure the lightest and darkest spot within the coral colony. Note your findings on the datasheet together with the coral type.

Items to bring









DATA SHEET PERMANENT TRANSECT

NORTH BEACH

В1	В2	В3	В4	В5	В6	CI					
E6		×		\		Ω					
ES	ا ر	CORALWATCH									
蓝	ı	CORAL HEALTH CHART									
E3			THE UNIV OF QUEEN	SLAND		G					
E	*Atl	Atlas of Living Australia BioCollect									
ā	Dę	DŞ	D¢	ъз	zα	10					

Group name:	Yo	our name:	
Email address:			
Participation field: dive	centre / scientist / enviro	onmental / school or univer	sity / tourist
Sea temperature:	_°C	Date of survey://	/
Time collected: (ie.14:00	or 2pm)	Day Moni Weather: sunny / cloudy	

Coral No*		ur Code t D=Darkest	BR :	Coral Type BR = Branching BO = Boulder PL = Plate SO = Soft			S	ize	% dead	Remarks
	Lightest	Darkest	Branching	Boulder	Plate	Soft	Height	Diameter		
5										
7										
8										
10										
11										
12										

Coral 1, 2, 3, 4, 6 and 9 have been severely damaged or died during the coral bleaching event 2019. Coral 11 and 12 have been added in 2021.



DATA SHEET PERMANENT TRANSECT RESEARCH BEACH

В1	В2	В3	В4	В5	В6	C				
190		×		\		Ω				
83	ر ا	CORALWATCH								
ä		CORAL HEALTH CHART								
2		THE UNIVERSITY OF QUEENSLAND								
23	⊀An	Atlas of Living BioCollect								
=	DQ	DS	D4	БЗ	za	10				

Group name:	Your name:								
Email address:									
Participation field:	dive centre /	scientist /	environmental /	/ school or university	/ tourist				
Sea temperature:_	°C		Date of sur	vey:/					
Time collected: (ie.	14:00 or 2pm)		Weather:	Day Month sunny / cloudy /	Year raining				

Coral No*		our Code st D=Darkest	Coral Type BR = Branching BO = Boulder PL = Plate SO = Soft			Size		% dead	Remarks	
	Lightest	Darkest	Branching	Boulder	Plate	Soft	Height	Diameter		
3										
4										
5										
7										
8										
11										
14										
15										
16										
17										

Coral 1, 2, 6, 9, 10, 12 and 13 have been severely damaged or died during the coral bleaching event 2019. Coral 14, 15, 16, 17 have been added in November 2021.



North Beach 5 - Wavy



DETAILS Coral colony – November 2023										
Scientific name	Given nam	Coral Type								
Cladiella	Wavy	Soft								
GPS Latitude (WGS84)	Measuren	Coral Health Score								
-23.43924	Max.	Max.	Lightest		Darkest					
GPS Longitude (WGS84)	Diameter	Height								
151.91733	75 cm	33 cm	E4		D5					
% of dead coral within colony	Remarks: Tags to the left when walking at shore									
0										











2014

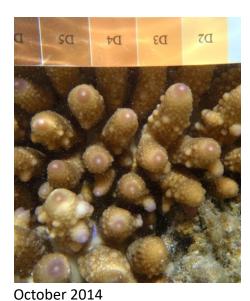


North Beach 7 - Fingers



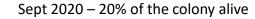
DETAILS Coral colony – November 2023									
Scientific name	Given nan	ne	Coral Type						
Acropora	Fingers	Branching							
GPS Latitude (WGS84)	Measuren	Coral Health Score							
-23.43915	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
151.91731	30 cm	8 cm	D2		D3				
% of dead coral within colony	Remarks: Original transect is from 2014. Check the								
80%	latest pho coral died	to from Sep	ot 202	0, 809	% of tl	he			





October 2014









North Beach 8 – Sleepy dog



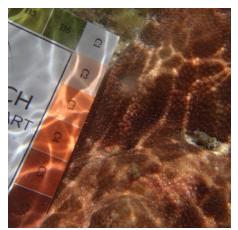
DETAILS Coral colony - November 2023									
Scientific name	Given nan	Coral Type							
Cyphastrea	Sleepy do	Boulder							
GPS Latitude (WGS84)	Measuren	Coral Health Score							
-23.43874	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
151.91748	51 cm	17 cm	D4		D5				
% of dead coral within colony	•	Tag missing							
15%	2023 – 80	% overgrov	vii Wit	n alga	ie				











Nov 2023 - 20% alive

2014



North Beach 10 - Labyrinth



DETAILS Coral colony – November 2023										
Scientific name	Given nan	Coral Type								
Platygyra	Labyrinth	Boulder								
GPS Latitude (WGS84)	Measuren	Coral Health Score								
-23.43812	Max.	Max.	Lightest [Dark	Darkest				
GPS Longitude (WGS84)	Diameter	Height								
151.91765	50 cm	29 cm	D3		D5					
% of dead coral within colony	Remarks 2017 New tag – orange colour (no CoralWatch text on it)									











November 2023



North Beach 11 – Brown wig



DETAILS Coral colony – November 2023									
Scientific name	Given r	Coral Type							
Pocillopora damicornis	Brown	Branching							
GPS Latitude (WGS84)	Measu	Coral Health Score							
-23.44029	Max.	Max.	Ligh	Lightest		Darkest			
GPS Longitude (WGS84)	Diam eter	Height							
151.91664	30 cm	14 cm	D2		E5				
% of dead coral within colony	Remarks Start of the transect, in front of rangers house. Tag attached to dead coral next to it.								









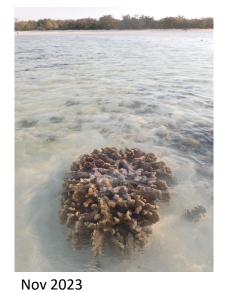
Nov 2020 – 100% of colony alive



North Beach 12 - Shelter



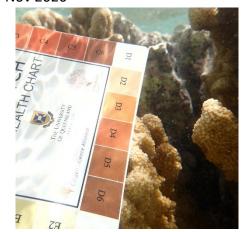
DETAILS Coral colony – November 2023									
Scientific name	Given nan	ne	Coral Type						
Isopora palifera	Shelter		Branching						
GPS Latitude (WGS84)	Measuren	Coral Health Score							
-23.43958	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
151.91721	50 cm	29 cm	E3		E5				
% of dead coral within colony 20%	Remarks White on top; 20% dead coral due to low tide environment; tag attached next to pink Pocilopora								





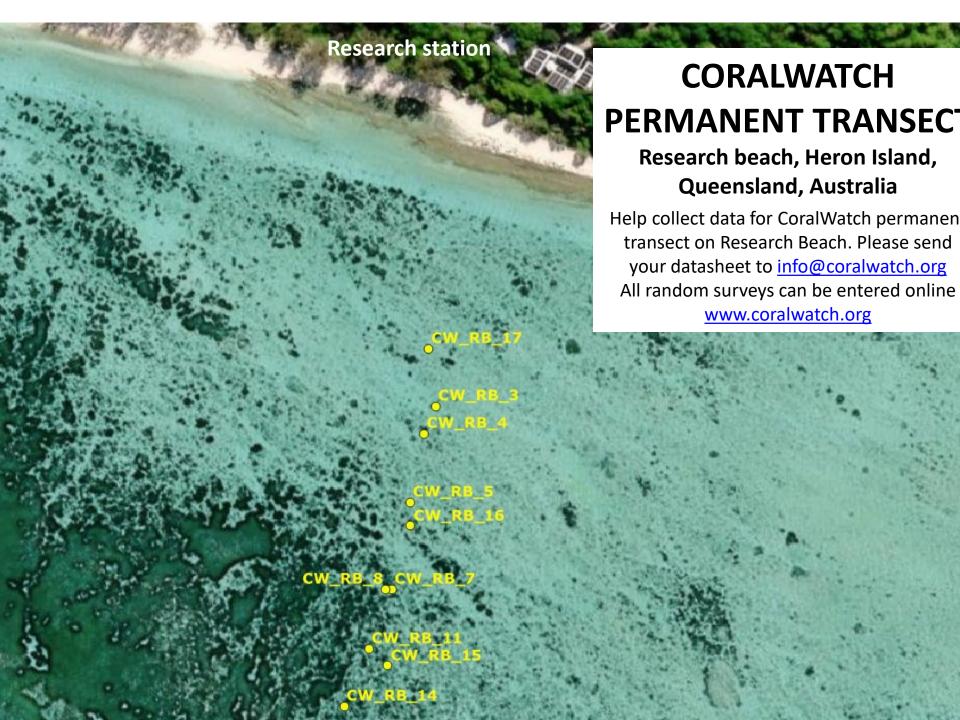






Nov 2020 – 100% of colony alive





Research Beach 3 - Tentacles



DETAILS Coral colony – November 2023									
Scientific name	Given name		Coral Type						
Isopora	Tentacles	branching							
GPS Latitude (WGS84)	Measurements		Coral Health Score			ore			
-23.44447	Max.	Max.	Lightest		Darkest				
GPS Longitude (wgs84)	Diameter	Height							
151.91341	42 cm	28 cm	D2		D5				
% of dead coral within colony	Remarks Tag is attached to a dead branch of this								
50%	•	colony. Colony is to the right of an Acropora when looking at the beach.							

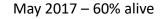




Sept 2020









Sept 2020 - 50% alive



October 2014

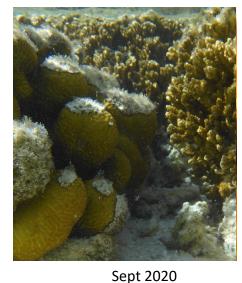


Research Beach 4 - Brainy Barry



DETAILS Coral colony – November 2023										
Scientific name	Given nan	Coral Type								
Platygyra	Brainy Ba	Boulder								
GPS Latitude (WGS84)	Measurements		Coral Health Score							
-23.444595	Max.	Max.	Lightest		Darkest					
GPS Longitude (WGS84)	Diameter	Height								
- 151.91336	42 cm	27 cm	Ε	4	D	5				
% of dead coral within colony		Remarks: Next to large Montipora 1.5m towards Heron Island								
85%										





Sept 2020 - 15% alive







May 2017 – 30% of the colony alive



Research Beach 5 - Elle



DETAILS Coral colony – November 2023									
Scientific name	Given nan	ne	Coral Type						
Acropora	Elle	Branching							
GPS Latitude (WGS84)	Measuren	nents	Coral Health Score			ore			
-23.4489	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
151.91330	75 cm	26 cm	E3		E4				
% of dead coral within colony 15%									





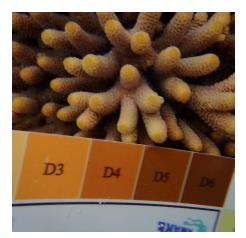
Sept 2020 - 85% alive



November 2023 – 40% alive



May 2017 – 95% of the colony alive





Research Beach 7 - Flower



DETAILS Coral colony – November 2023									
Scientific name	Given nan	ne	Coral Type						
Pavona	Flower		Plate						
GPS Latitude (WGS84)	Measuren	nents	Coral Health Score			ore			
-23.44527 S	Max. Max.		Lightest Darkest			kest			
GPS Longitude (WGS84)	Diameter	Height							
- 151.9132122 E	40 cm	21 cm	Ε	3	Е	4			
% of dead coral within colony 10%	facing sho permaner	Remarks: Left of big boulder coral when facing shore close to Goniopora on permanent transect line Tag missing							

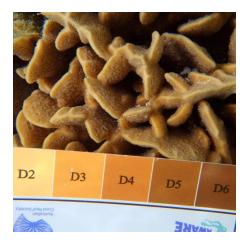




Sept 2020 - 90% alive







May 2017 – 90% of the colony alive



Research Beach 8 - Gonzo



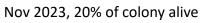
DETAILS Coral colony – November 2023									
Scientific name	Given nan	Given name			Coral Type				
Goniopora	Gonzo	Boulder							
GPS Latitude (WGS84)	Measuren	nents	Coral Health Scor			ore			
-23.44527	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
- 151.91319	28 cm	22 cm	В	2	Е	4			
% of dead coral within colony	Remarks 2023 – no	Remarks 2023 – no tag, close to number 7							
80%									





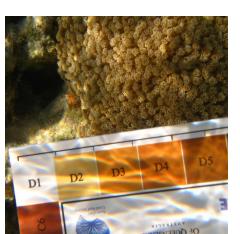
Sept 2020, 50% of colony alive







Sept 2020, 50% of colony alive





Research Beach 11 - Squishy



DETAILS Coral colony – November 2023									
Scientific name	Given nan	Coral Type							
Sarcophyton	Squishy	Soft							
GPS Latitude (WGS84)	Measurements		Coral Health Score			ore			
-23.44553 S	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
- 151.91312 E	107 cm	31 cm	Ε	3	Ε	4			
% of dead coral within colony	Remarks: There are 2 sarcophytons (1 small 1 big), close to each another.								
0	This coral	does not ha	ave a	tag.					





Nov 2023-100% alive





Sept 2020-100% alive October 2014

October 2014



Research Beach 14 - Shreks rear

CORALWATCH

DETAILS Coral colony – November 2023									
Scientific name	Given nan	Coral Type							
Cyphastrea serailia	Shreks rea	Boulder							
GPS Latitude (WGS84)	Measuren	nents	Coral Health Sco			core			
23.44578	Max.	Max.	Lightest		Darkest				
GPS Longitude (wgs84)	Diameter	Height							
- 151.91301	29 cm	18 cm	Ε	3	E	4			
% of dead coral within colony		ulder, tag is			rom t	the			
5%	coral towa	ards the ree	et cres	t					











November 2021 November 2021 November 2021



Research Beach 15 - Cinnamon roll

CORALWATCH

DETAILS Coral colony – November 2023									
Scientific name	Given nan	Coral Type							
Favia	Cinnamon role		Boulder						
GPS Latitude (WGS84)	Measuren	nents	Coral Health Scor			ore			
-23.44560	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
- 151.91320	84 cm	31 cm	D	2	D	3			
% of dead coral within colony		s dead due		vironn	nenta	I			
Top 100% Side 95% healthy	conditions	s – low tides	S						



November 2021





November 2021

November 2021

November 2021



Research Beach 16 - Covid 19



DETAILS Coral colony – November 2023									
Scientific name	Given nan	ne	Coral Type						
Porites cylindrica	COVID 19	Branching							
GPS Latitude (WGS84)	Measuren	nents	Coral Health Score			ore			
-23.444990	Max.			Lightest Darke		kest			
GPS Longitude (WGS84)	Diameter	Height							
- 151.91330	75 cm	30 cm	D	2	D	3			
% of dead coral within colony 3%		Remarks The tag is socially distanced, 1.5m from the COVID 19 coral to the right facing							





November 2023 (85% alive)

November 2021







November 2021 November 2021 November 2021

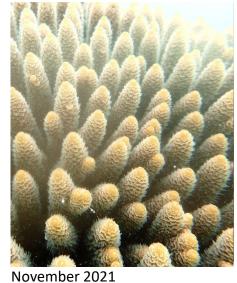


Research Beach 17 – Echidna turtle

CORALWATCH

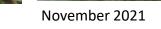
DETAILS Coral colony – November 2023									
Scientific name	Given name		Coral Type						
Acropora	Echidna tu	Branching							
GPS Latitude (WGS84)	Measuren	nents	Coral Health Score			ore			
-23.44422	Max.	Max.	Lightest		Darkest				
GPS Longitude (WGS84)	Diameter	Height							
- 151.91338	40 cm	23 cm	D	3	D	5			
% of dead coral within colony		looking to s	hore	on the	e right	t			
0%	next to co	lony							





November 2023 (100% alive)







November 2021 November 2021

