Australian Government
Great Barrier Reef Marine Park Authority

Eye on the Reef

Eye on the Reef PLATFORM & **Data Entry**



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Introduction to the Eye on the Reef program

The Great Barrier Reef Marine Park Authority's Eye on the Reef program allows anyone out on the water to collect valuable information on Reef health, wildlife and incidents and submit the information via desktop or smartphone app to the Reef Authority.

Anyone can get involved with the EotR program, from interested visitors, school groups and citizen scientists to marine biologists. There are four ways people can get involved depending on their interest:

- **Sightings:** All Reef users and visitors can report sightings of wildlife and report incidents and access Marine Park zoning in real time via a free smartphone app. Download the free Eye on the Reef app.
- **Rapid monitoring:** For anyone who wants to be a marine biologist for a day, this program guides users through a standardised assessment of Reef health and wildlife presence or absence.
- **Tourism Weekly Monitoring:** For tourism operators and staff, this program provides long-term trend data and detailed biological knowledge of high-value tourism reef sites. Participants must first complete the official training program.
- **Reef Health and Impact Surveys (RHIS):** Provides a detailed snapshot of Reef health and includes a breakdown of habitat and impact assessment. This survey is used mainly by Marine Park managers, researchers, and experienced tourism staff. Participants must first complete a training program.

This data provides Marine Park managers and researchers with up-to-date information on Reef health status and trends, species distribution and environmental impacts in near real-time. Data is used to inform Reef health reporting, management decisions and actions which contribute to the long-term protection of the Great Barrier Reef.

This guide outlines the key systems that make up Eye on the Reef program and gives instruction on entering and accessing data through the web-platform.

Eye on the Reef app for smartphones

- The Eye on the Reef app: Shows Marine Park zoning, including maps and rules, even when the user is out of mobile range
- Shows seasonal fishing closures
- Allows users to add sightings of wildlife and to report incidents
- Allows users to view submitted sightings

Full information on how to download and use the Eye on the Reef App is available on the Reef Authority website.

Eye on the Reef Platform

The Eye on the Reef Platform (EotR platform) is a centralised database and data management system for Eye on the Reef.

The EotR platform stores data from both internal and external sources, from six survey/data collection methods:

- Sightings
- Rapid Monitoring Survey
- Tourism Weekly Survey
- Reef Health and Impact Surveys
- Crown-of-thorns starfish Manta tows
- Crown-of-thorns starfish culling actions

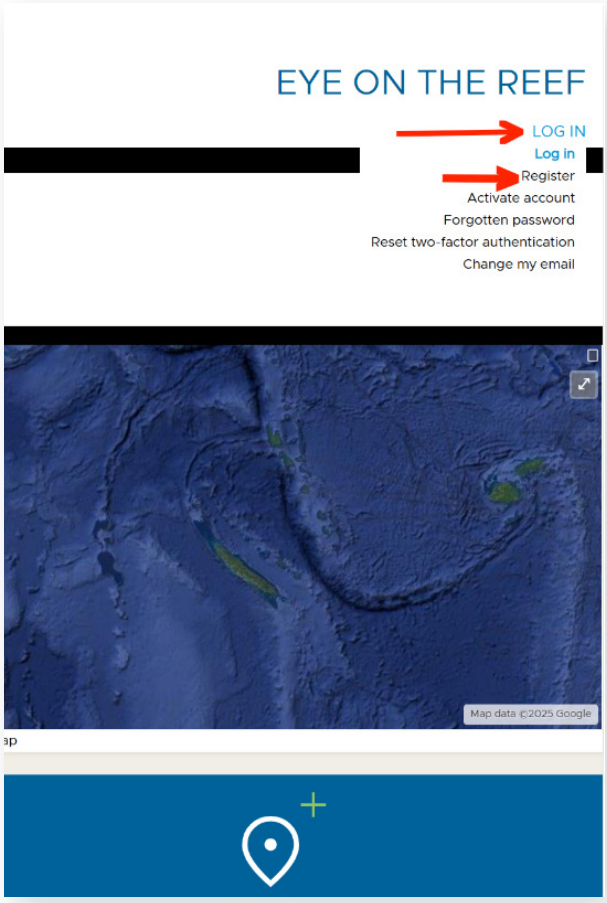
Eye on the Reef Registration

Data entry for Rapid monitoring, Tourism Weekly monitoring and RHIS monitoring is input through the Eye on the Reef – Survey platform via the website https://eotr.gbrmpa.gov.au/ and requires registration.

Sightings Network data can be submitted though the Eye on the Reef app or the browser-based survey platform.

To register a user account, navigate to the login menu in the top right corner of the home page.

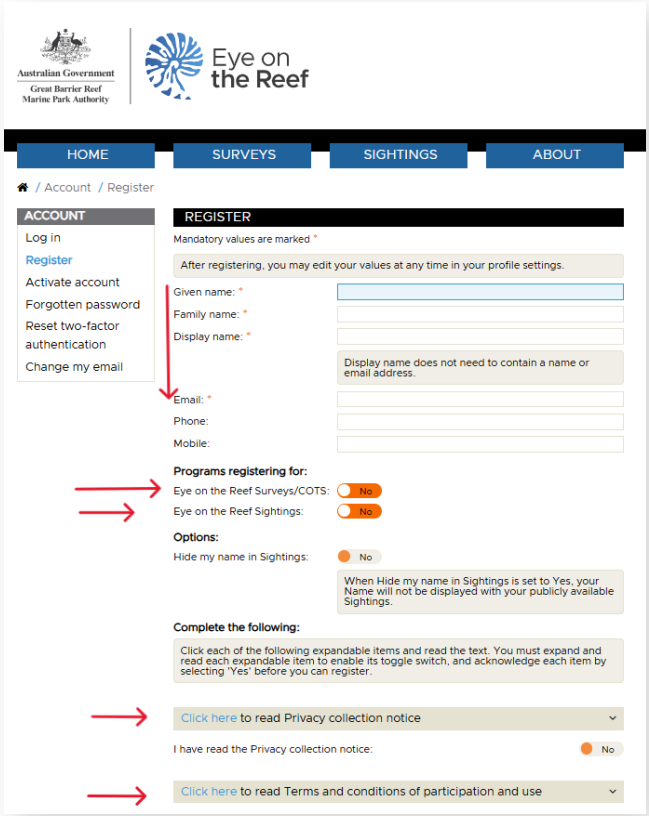
Hover over LOG IN on right hand side and select REGISTER in the drop-down menu



Fill in all mandatory values as required *

Select **YES** for Eye on the Reef Survey/ crown-of-thorns starfish

Select **YES** for Sightings

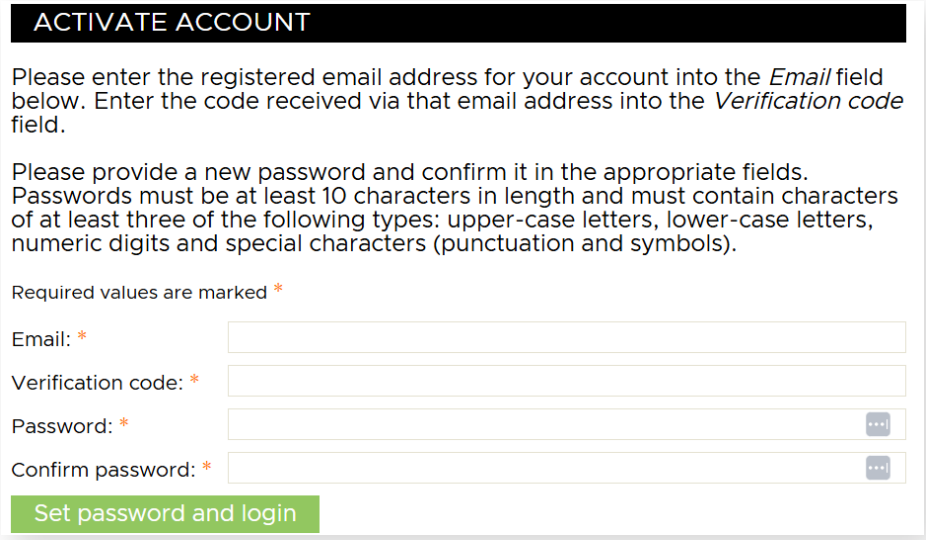


Consent

To participate in the program, please review the:

- Privacy Collection notice
- Terms and Conditions of participation
- Consent to overseas disclosure of information

Click here to open each required section before you can select YES to each section which is required to activate the REGISTER button



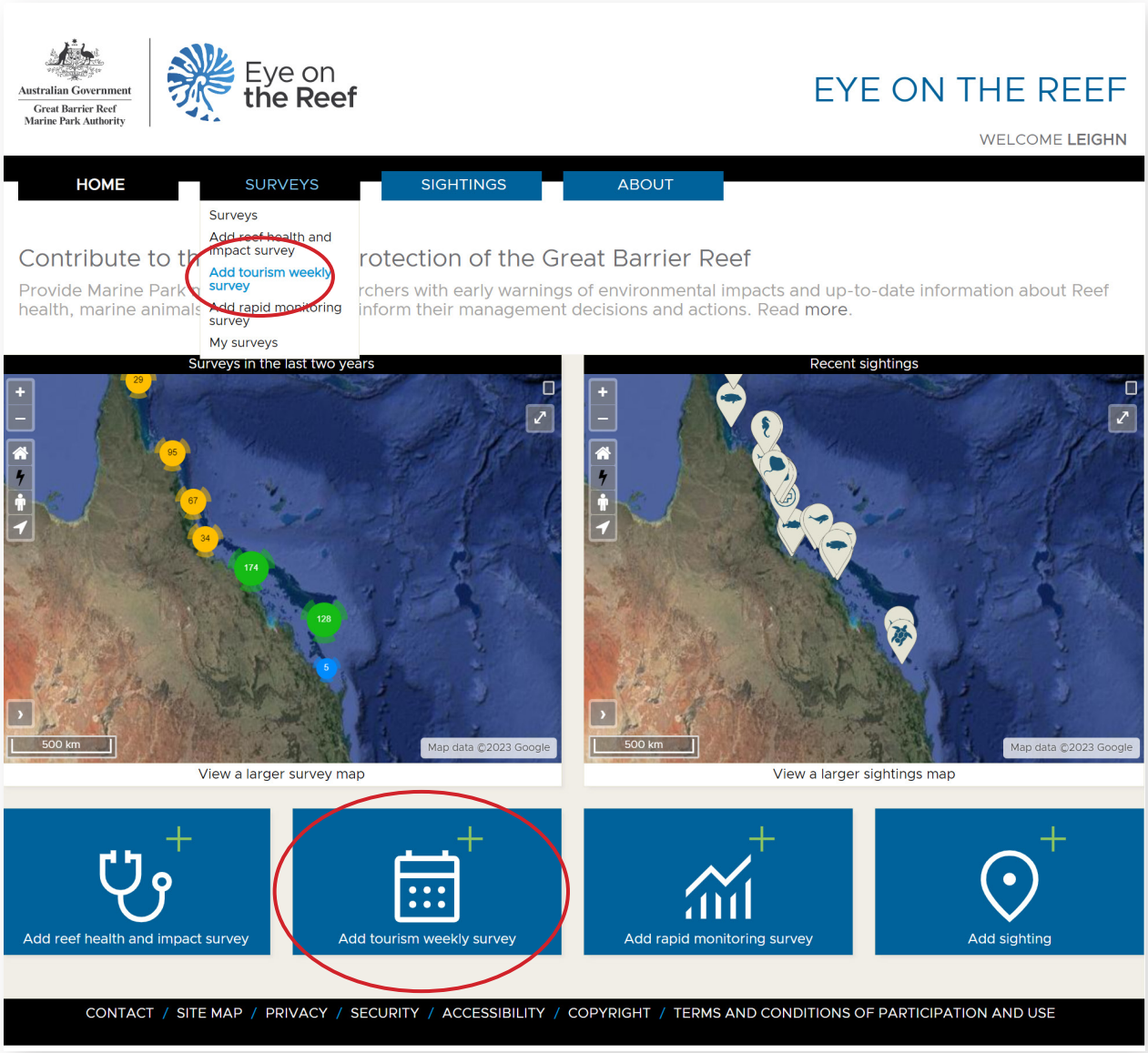
After registering, the account will then need to be activated. Check your email for a registration link/ code to complete the process.

The final step to setting up your account is to assign your organisation. Access the drop-down menu from your name in the top right and select 'Change my organisation'. Begin typing out your organisation name and select from the auto-complete. Click submit and your account is ready for use.

Eye on the Reef - Tourism Weekly Surveys

Go to https://eotr.gbrmpa.gov.au . There are 2 pathways to enter a survey:

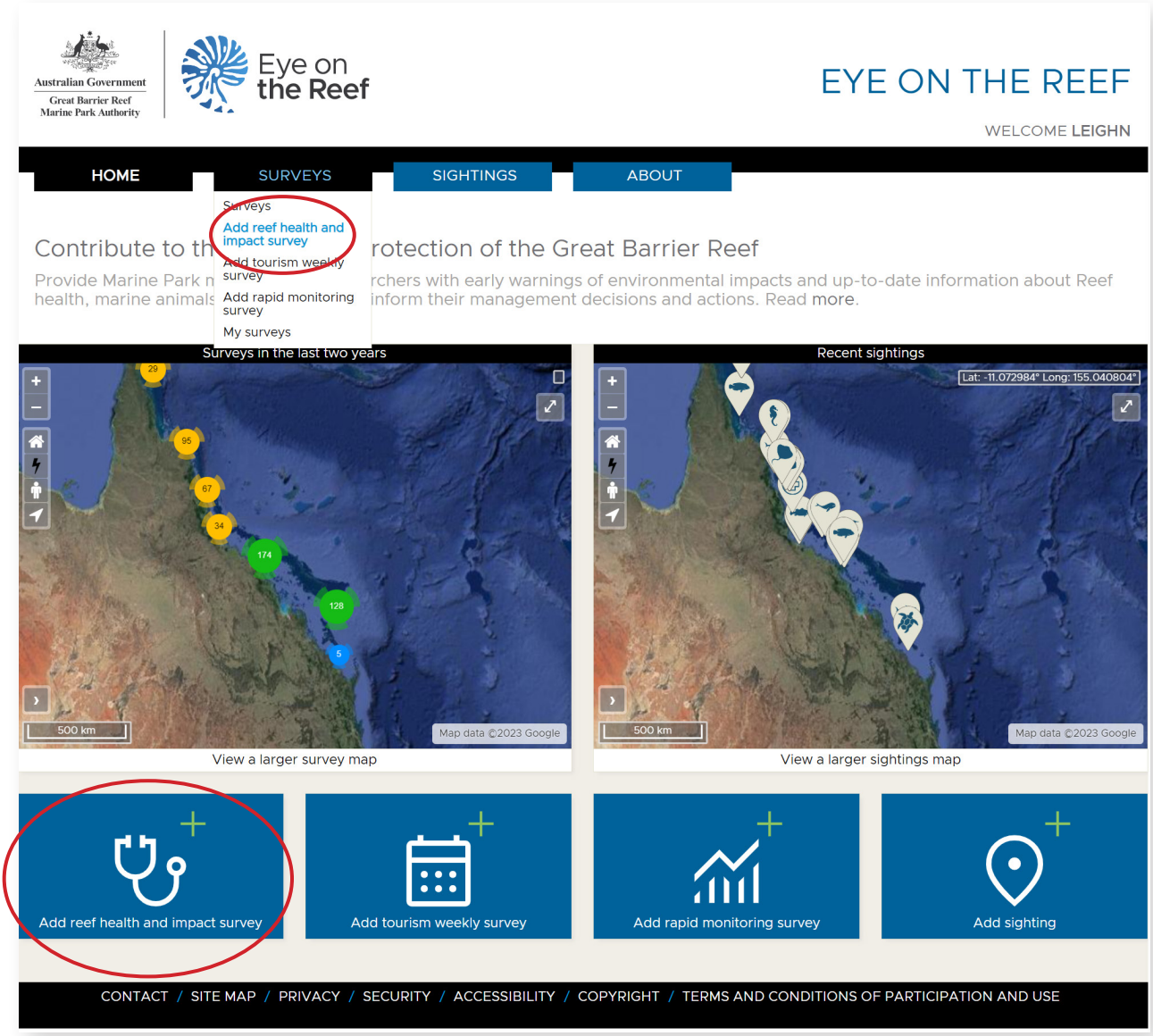
- Using the SURVEYS dropdown menu at top of the home page; or
- Via the Add tourism weekly survey box at bottom of the page



Eye on the Reef - Reef Health and Impact Surveys (RHIS)

Got to eotr.gbrmpa.gov.au. There are 2 pathways to enter a survey:

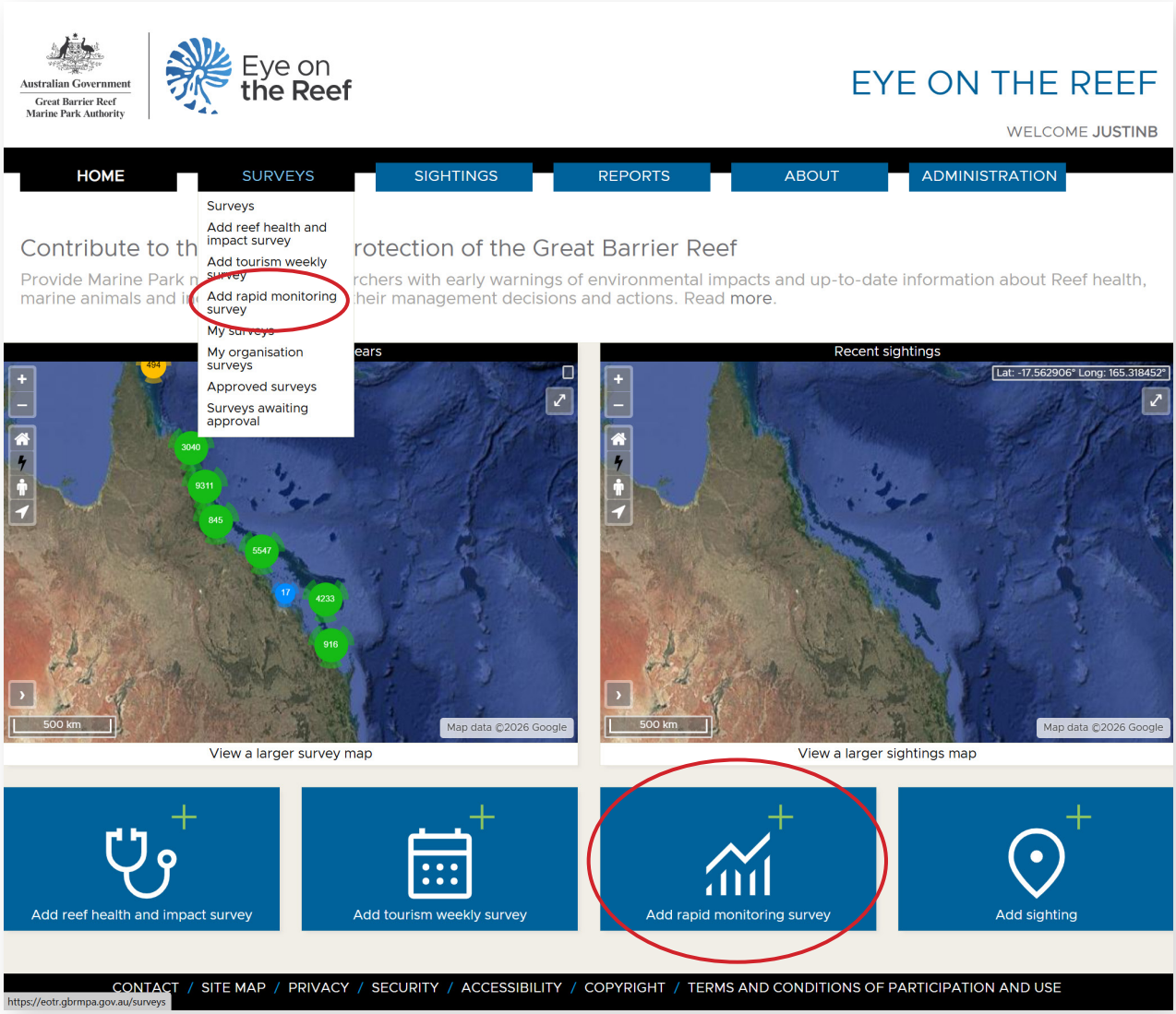
- Using the SURVEYS dropdown menu at top of the home page; or
- Via the Add Reef Health and Impact Survey box at bottom of the page



Eye on the Reef – Rapid Monitoring Surveys

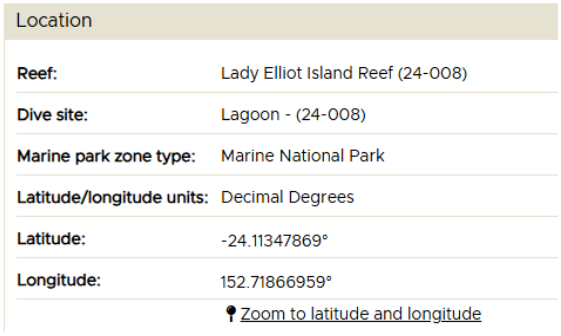
Got to eotr.gbrmpa.gov.au. There are 2 pathways to enter a survey:

- Using the SURVEYS dropdown menu at top of the home page; or
- Via the Add Reef Health and Impact Survey box at bottom of the page

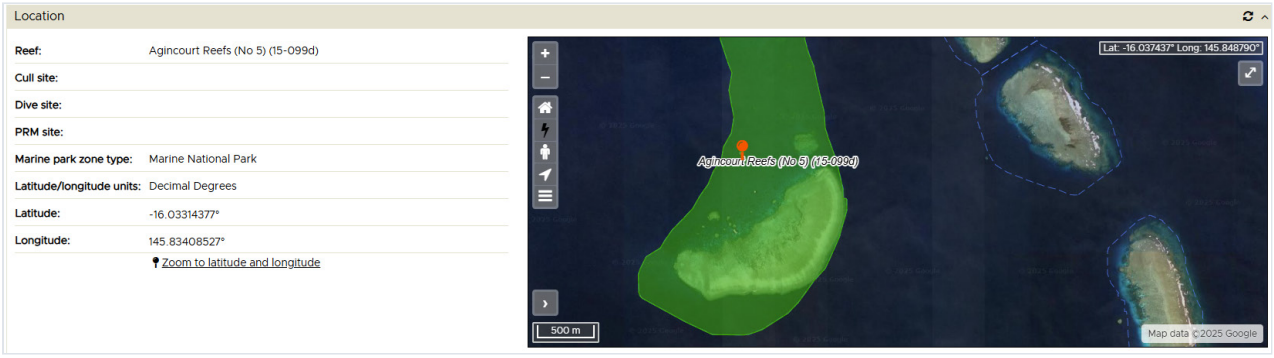


Location

For **Tourism Weekly** – select reef and dive site from the dropdown menu. This automatically pre-fills the Marine Park zone type and Latitude/ Longitude position. Note that the exact coordinates may be incorrect as Tourism Weekly is not conducted at a point, rather along a path.



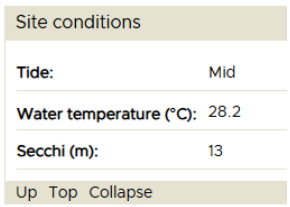
For **Rapid** or **RHIS surveys** – select reef from dropdown menu. You must enter the Latitude/ Longitude position of the survey point manually OR you can zoom in on the satellite map and drag the red pin to the site of the survey. **Do not select a dive site, cull site, or PRM site** unless this is a specific requirement of your program (e.g. AIMS LTMP, crown-of-thorns starfish control program).



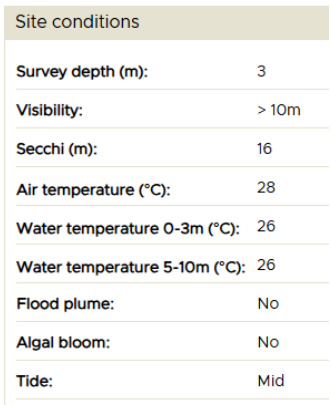
Site Conditions

This data is important in determining causes of impacts or as an indicator of predicting impacts. It collates water quality and water movement data that is valuable in assessing Reef health.

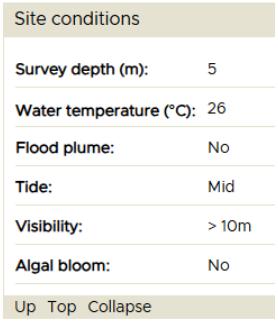
TOURISM WEEKLY



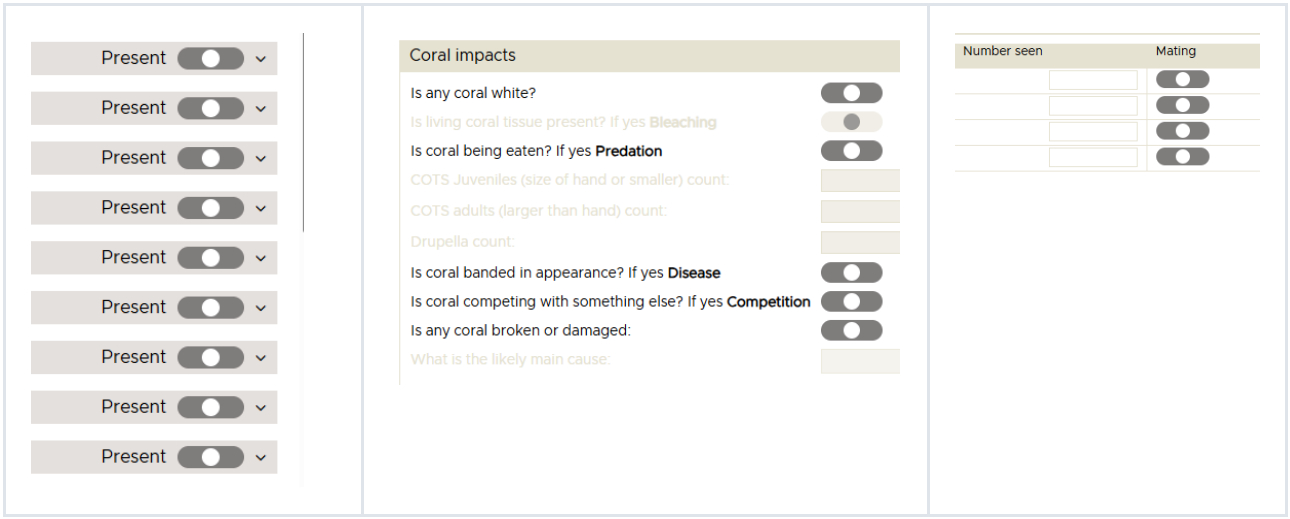
RHIS

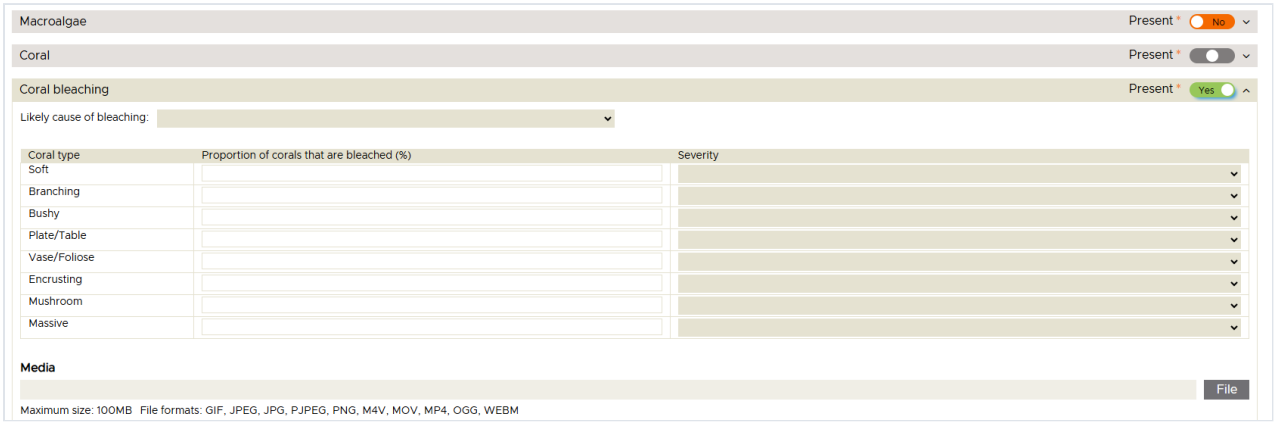


RAPID



Toggle Switch – how and when to use:



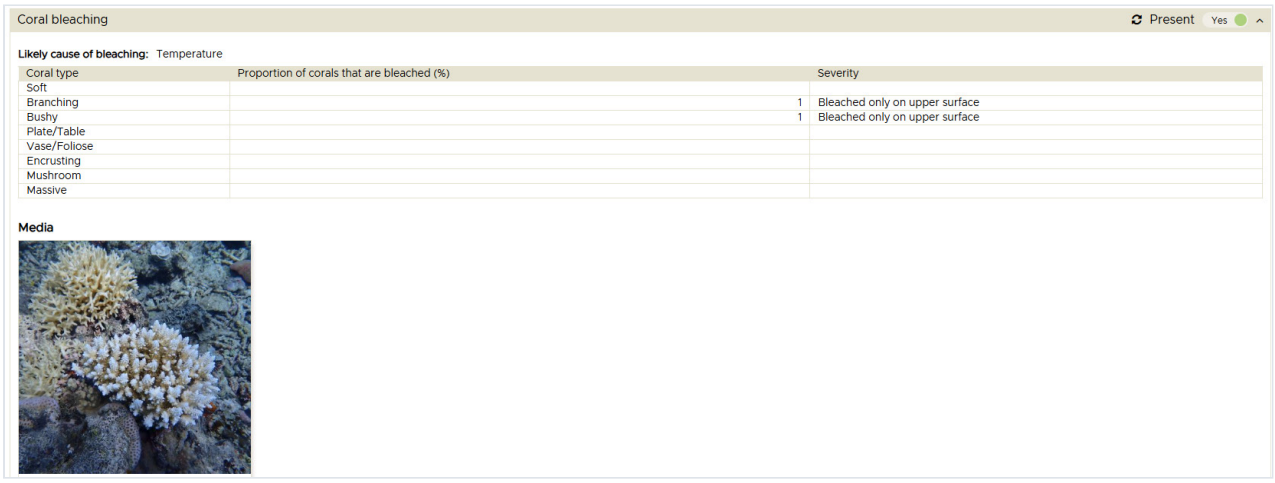


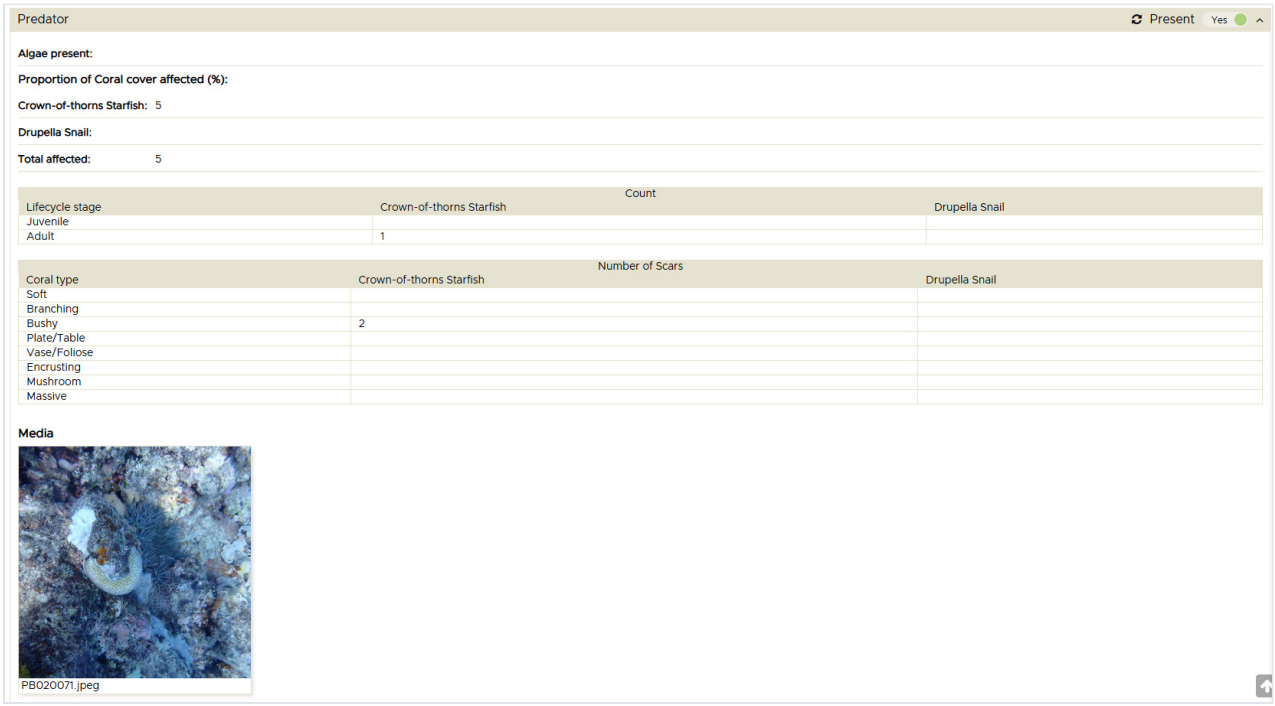
There are toggle switches in various data fields within the Survey forms.

Leaving the toggle switch inactivated	This indicates that the observer did NOT look for the topic of the data field The EOTR administrators read this information as a question mark or that it is unknown.
Selecting NO at the toggle switch	This indicates that the observer looked for and did not see the topic The EOTR administrators read this information as knowing that the topic was absent at the time of the survey at that site.
Selecting YES at the toggle switch This opens another section of the form to complete	This indicates that the observer looked for and records a confirmed sighting of the topic The EOTR administrators read this information as knowing that the topic is present and in what type or quantity at the time of the survey at that site.

Media

Uploading photos or videos with a survey submission is very valuable evidence of what was seen and allows the Reef Authority to confirm reports of impacts and wildlife. Photos are the only form of evidence that can be provided to substantiate the data of a survey and therefore add substantial value. There are various sections within each survey form where media (images and/or video) may be uploaded. They can also be uploaded in the Media section prior to Additional Information section.



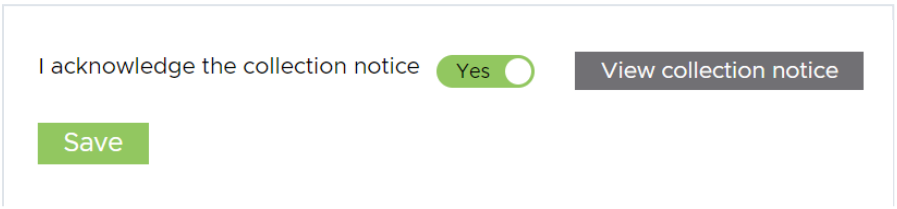


Additional Information fields

This field is for any explanatory notes or comments on data reported in the survey or interesting information on any observations not covered by the data fields. The Great Barrier Reef is endlessly complex and cannot always be summarised by a simple A4 survey form. Include any information that cannot be captured by your survey, any relevant metadata (such as a permanent RHIS number), or any further detail you would like to add.

Acknowledgement of data collection notice

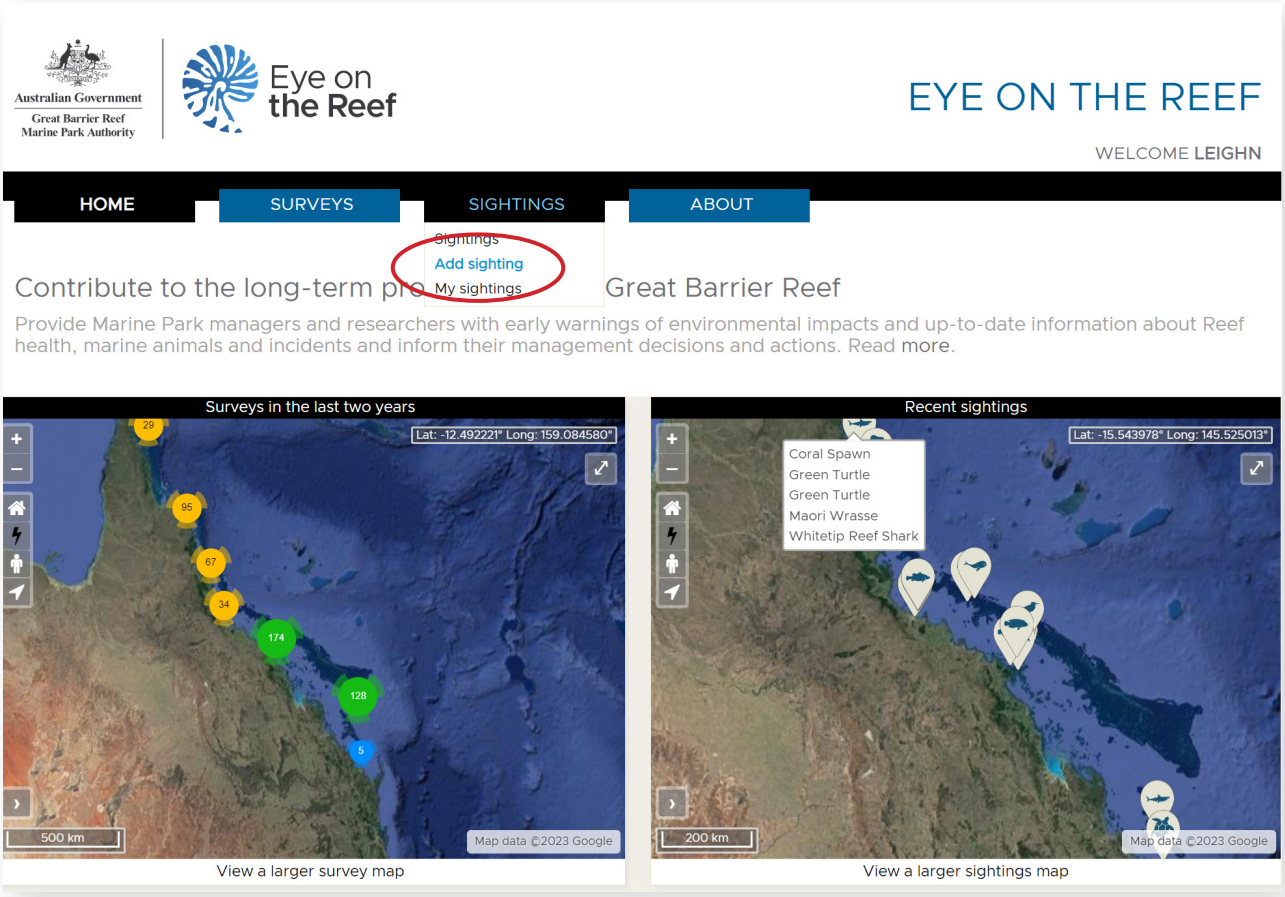
Please note that all survey and sightings submissions require the user to acknowledge the collection of data notice prior to the Save button being enabled. The collection notice can be viewed by clicking on the View collection notice button.

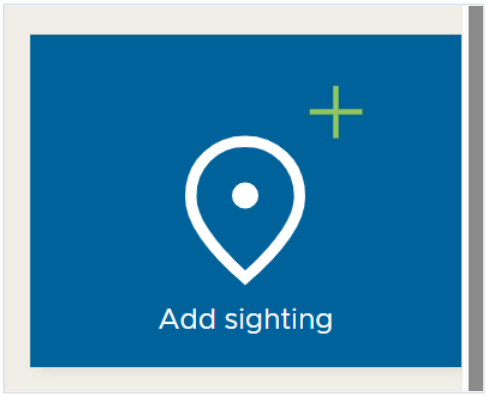


Inputting Coral Predator Management:

Crown-of-thorns Starfish and *Drupella* Snail Control

Information on crown-of-thorns starffish sightings or control can be input through the Eye on the Reef – **Sightings** system through the Eye on the Reef website at https://eotr.gbrmpa.gov.au/ or by using the Eye on the Reef mobile app.



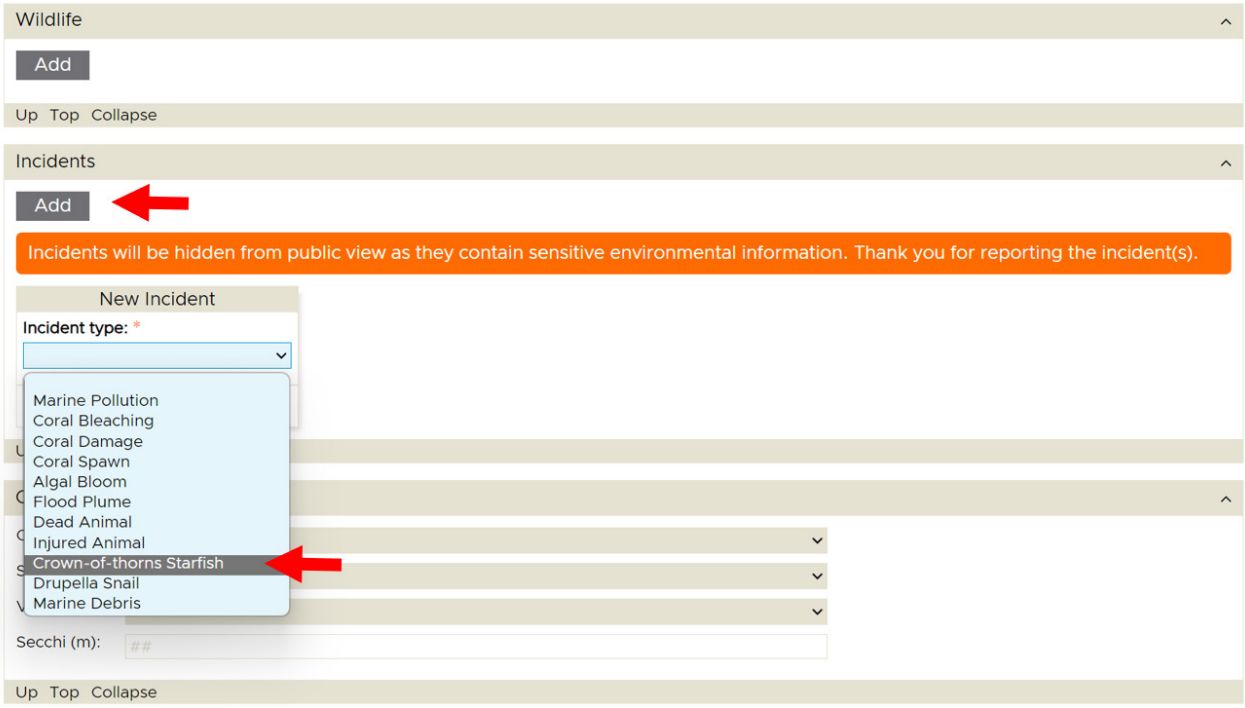


Crown-of-thorns starfish control or observation data

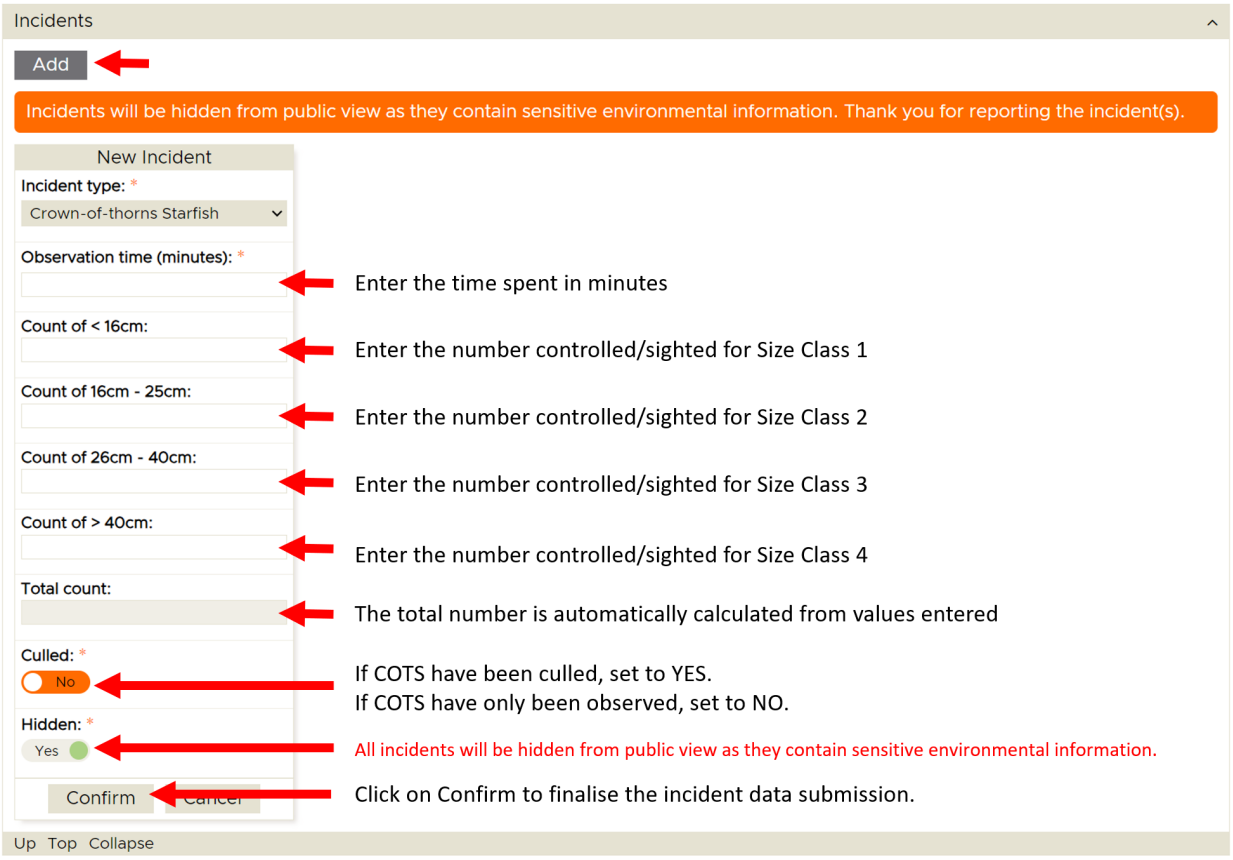
Crown-of-thorns starfish control or observation data are entered as an Incident with the required fields completed. This includes the time spent looking and the numbers of individuals of each size class found and/or culled.

> ***Time spent: time in minutes***
>
> *Size Class 1 (<15cm): number controlled/sighted*
>
> *Size Class 2 (16-25cm): number controlled/sighted*
>
> *Size Class 3 (26-40cm): number controlled/sighted*
>
> *Size Class 4 (41+cm): number controlled/sighted*

In the *Add Sighting* form scroll to the Incidents section and click on **Add** and select **Crown-of-thorns Starfish** from the drop-down menu.



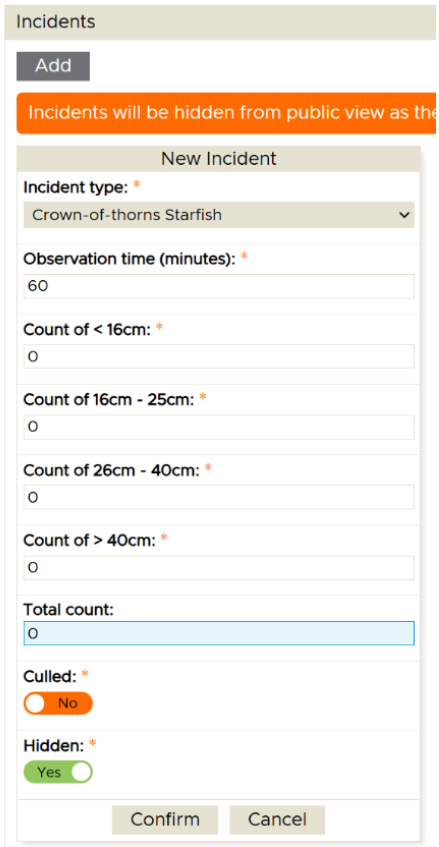
In the New Incident form complete the required fields for observation time and size classes then click on **Confirm**.



Zero Value Data Enty

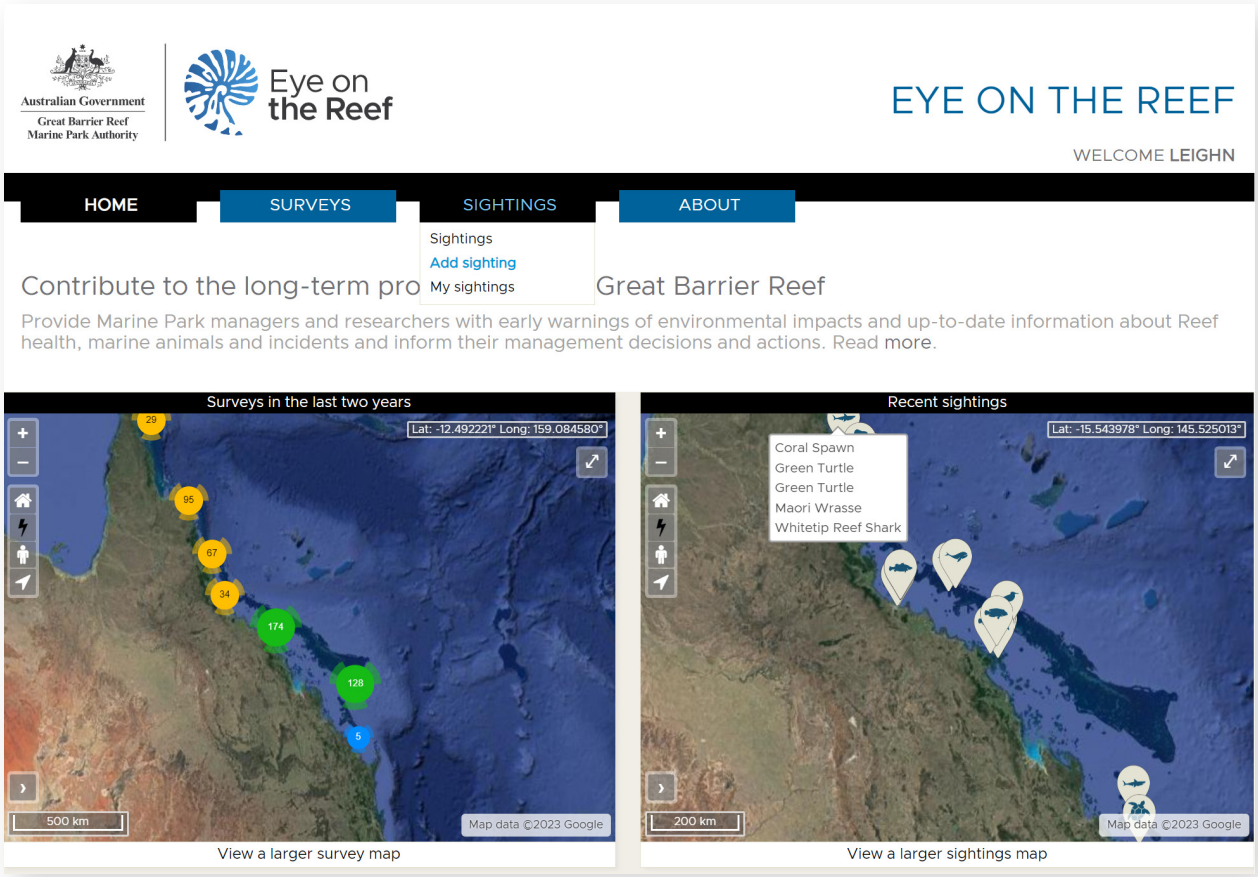
If no crown-of-thorns starfish have been seen during a dedicated Coral Predator monitoring activity, enter a Zero Value entry for crown-of-thorns starfish. This informs the Reef Authority that a predator control survey has been conducted, and no predators were observed. Information about where predators are absent can be just as useful as information about where they are present.

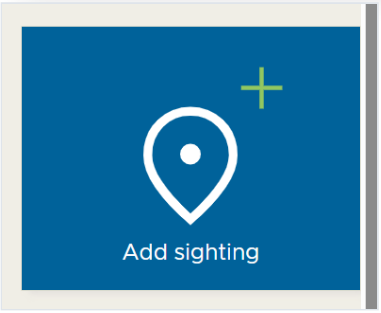
Please enter the observation time in minutes. If both crown-of-thorns starfish and *Drupella* are being surveyed simultaneously, enter the total time searched.



Drupella Control

Information on *Drupella* snail sightings and control can be input through the Eye on the Reef – Sightings system through the Eye on the Reef website at https://eotr.gbrmpa.gov.au/ or via the Eye on the Reef mobile app.





Drupella control or observation data should be entered as an Incident with the required fields completed. This includes the time spent looking and the numbers of individuals of each size class.

Time spent: time in minutes

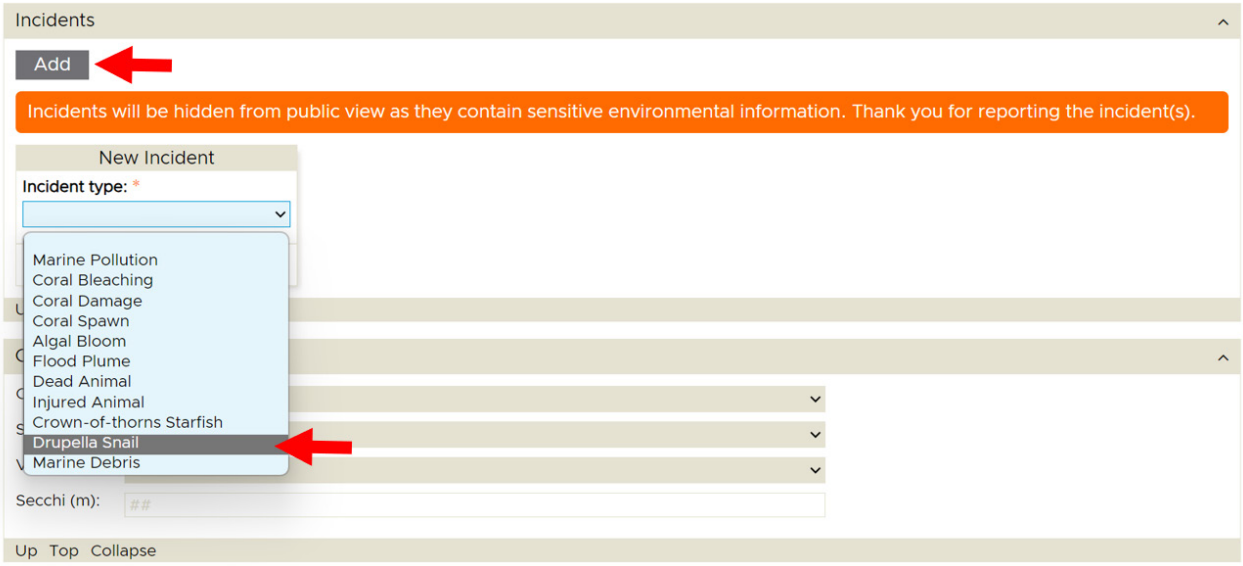
Size Class 1 (1-10mm): number controlled

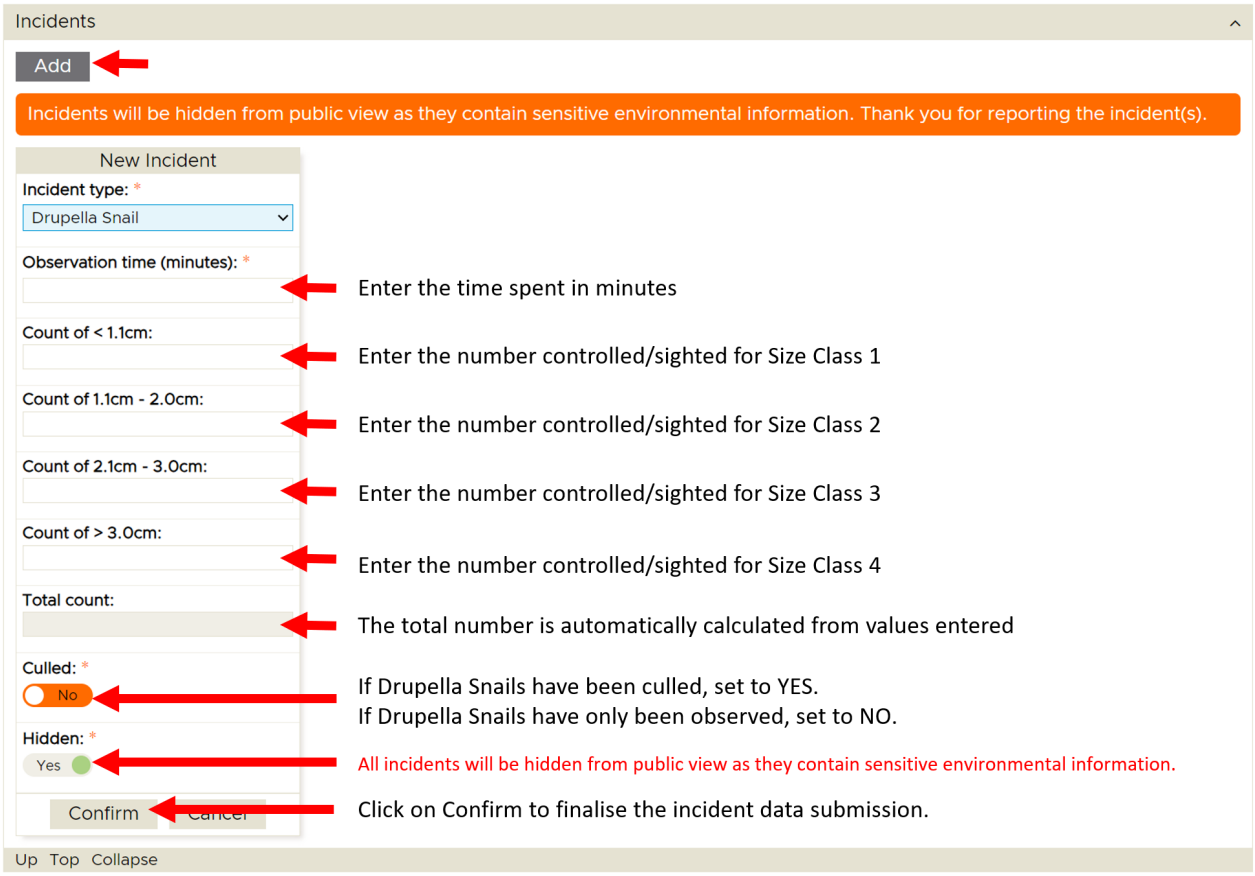
Size Class 2 (11-20mm): number controlled

Size Class 3 (21-30mm): number controlled

Size Class 4 (31+mm): number controlled

Culled: Yes/No

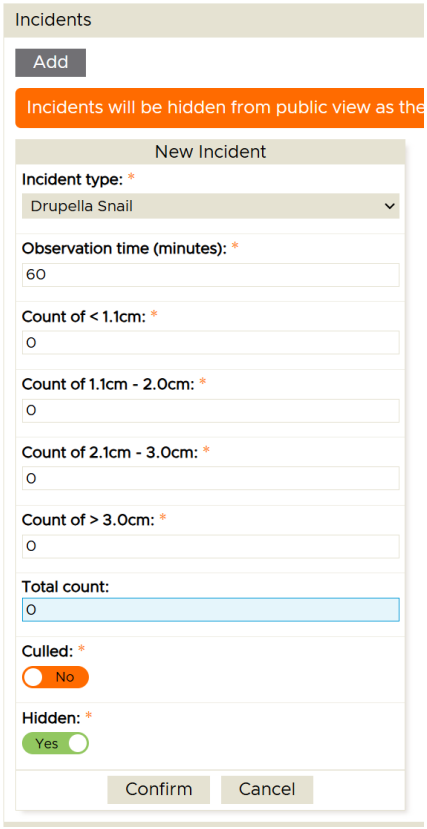

Incidents
Add
Incidents will be hidden from public view as they contain sensitive environmental information. Thank you for reporting the incident(s).
New Incident
Incident type: *
Marine Pollution
Coral Bleaching
Coral Damage
Coral Spawn
Algal Bloom
Flood Plume
Dead Animal
Injured Animal
Crown-of-thorns Starfish
Drupella Snail
Marine Debris
Secchi (m):
Up Top Collapse


Incidents
Add
Incidents will be hidden from public view as they contain sensitive environmental information. Thank you for reporting the incident(s).
New Incident
Incident type: *
Drupella Snail
Observation time (minutes): *
Enter the time spent in minutes
Count of < 1.1cm:
Enter the number controlled/sighted for Size Class 1
Count of 1.1cm - 2.0cm:
Enter the number controlled/sighted for Size Class 2
Count of 2.1cm - 3.0cm:
Enter the number controlled/sighted for Size Class 3
Count of > 3.0cm:
Enter the number controlled/sighted for Size Class 4
Total count:
The total number is automatically calculated from values entered
Culled: *
No
If Drupella Snails have been culled, set to YES.
If Drupella Snails have only been observed, set to NO.
Hidden: *
Yes
All incidents will be hidden from public view as they contain sensitive environmental information.
Confirm
Cancel
Click on Confirm to finalise the incident data submission.
Up Top Collapse

Zero Value Data Enty

If no *Drupella* have been seen during a dedicated Coral Predator monitoring activity, enter a Zero Value entry for *Drupella*.

Please enter the observation time in minutes. If both crown-of-thorns starfish and *Drupella* are being surveyed simultaneously, enter the total time searched.



Eye on the Reef Mobile App

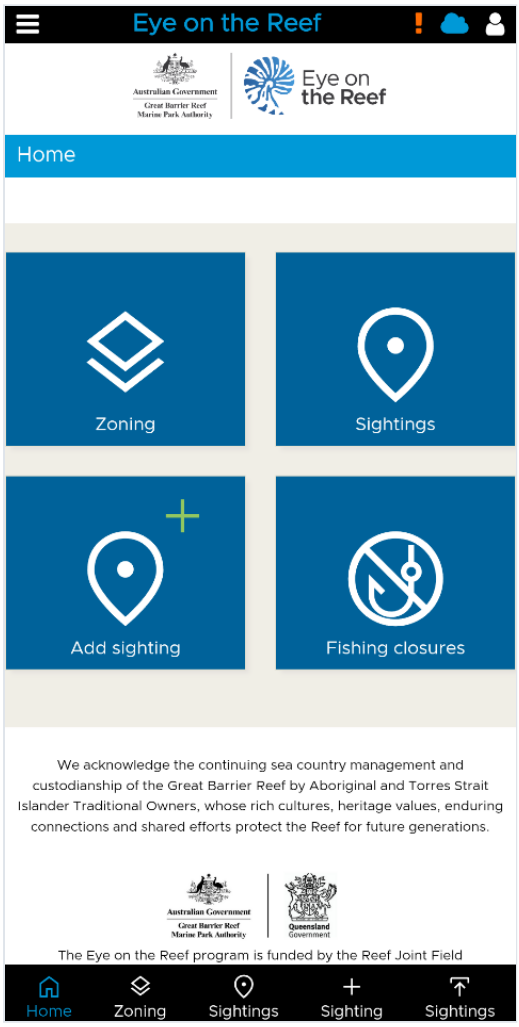
Crown-of-thorns Starfish and *Drupella* sightings

Reporting to the Eye on the Reef system can also be done using the mobile app. The app can be downloaded via the Google Play or Apple App store and is free to download and use.

Log in to the mobile app using the same credentials as the browser version of Eye on the Reef by clicking on the 'person' icon in the top right.

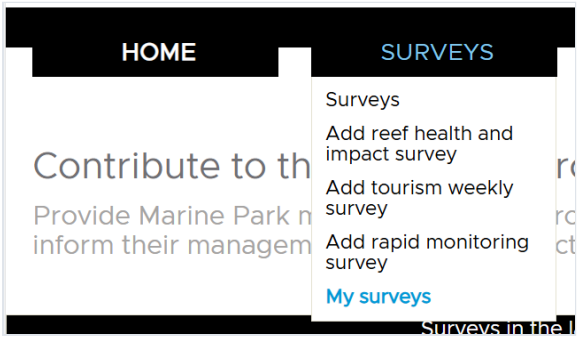
From the home screen, either navigate to the sightings network via the 'Sightings' button or navigate directly to creating a sighting by clicking the 'Add sighting' button. From the sightings network screen users can view their sightings, view all recent sightings, or add a sighting by clicking the orange 'ADD SIGHTING' button.

From here, follow the guide for the browser version above to create your sighting.





Accessing survey data



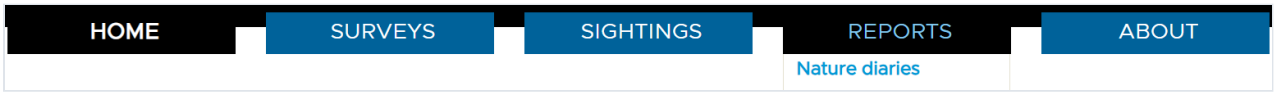
Once surveys have been entered, they can be accessed via the ‘SURVEYS’ menu at the top of the screen when logged into the web app, then by selecting ‘My Surveys’.

This will open a page that displays and give search options to view all surveys of any type associated with your user account. By default, the page will display surveys ‘Observed by me’ which can be changed via the ‘Relationship’ option at the top of the form if another person is completing data entry.

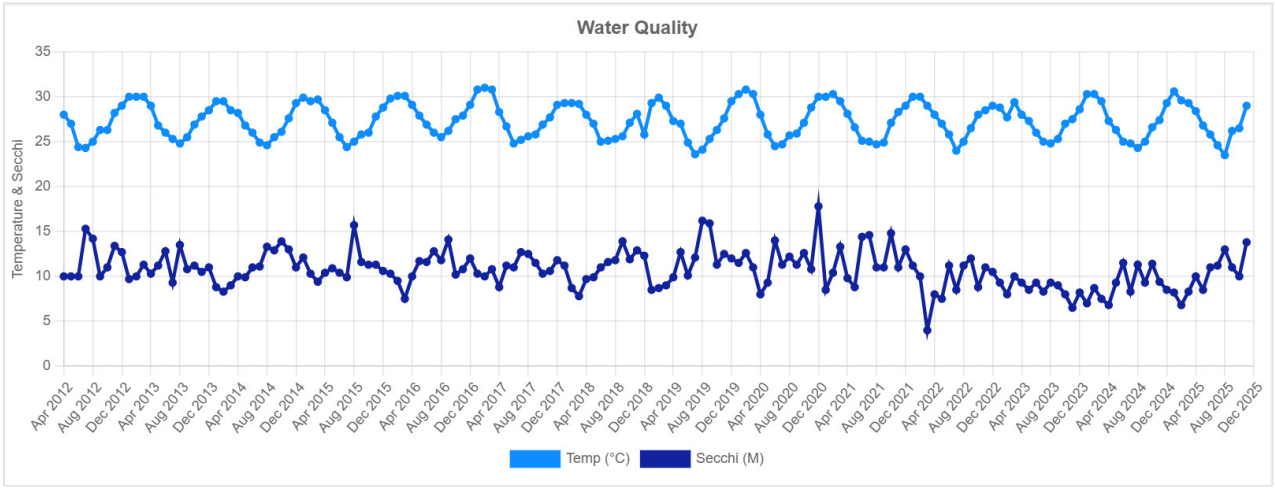
The ‘My surveys’ section gives a user access to their individual surveys as well as an overview of their survey activity. This information can be downloaded as a CSV, Excel or JSON file. Surveys can be viewed or edited from this page; however, these features are only available for a short time after submission. Any changes required once the survey is locked will need to be made by contacting eyeonthereef@gbrmpa.gov.au. In your email ensure to include the survey ID, specify what entered information is incorrect, and what the correct information should be.

Currently data from RHIS and Rapid Monitoring surveys is only available on request. If you wish to access a report containing your data, please contact eyeonthereef@gbrmpa.gov.au. Ensure to include any appropriate parameters such as location, date range, specific surveyors etc.

Tourism Weekly data is available through the nature diaries. Navigate to the top menu ‘Reports’ and select ‘Nature Diaries’ If this option is not available, please contact eyeonthereef@gbrmpa.gov.au to have nature diary access enabled for your account.



From here you will be able to view various graphs and charts displaying the results of your organisation’s Tourism Weekly surveys. Select the associated dive site from the drop-down menu and the time frame you wish to view. Graphs will be generated and can be saved by using the ‘Print to PDF’ feature from your internet browser. Print in a landscape format for best results.



The raw data can be downloaded. Select the ‘Download’ menu from below the search boxes and select ‘Excel (xlsx)’. The download will start automatically.

Should you have any questions or problems while using the Eye on the Reef systems, please contact the Eye on the Reef team at eyeonthereef@gbrmpa.gov.au for any support required.

Australian Government
Great Barrier Reef
Marine Park Authority

Eye on
the Reef

EYEONTHEREEF@GBRMPA.GOV.AU

EOTR.GBRMPA.GOV.AU