

Welcome to MERMAID!

MERMAID is an online-offline web application for coral reef data collection. Our mission is to develop field-ready technologies for scientists that accelerate the transformation of data to decisions for coral reef conservation. Our vision is a world where coordinated and collaborative scientific information is used for rapid evidence-based decision making to protect and manage coral reefs

We save you time so you can save coral reefs



The MERMAID Workflow



How does MERMAID work?

Just like Excel, MERMAID joins you in the field with its offline capabilities. But it stands apart from Excel and other databases, like Access, because it requires virtually zero post-entry data clean up!

Users can select reef fish and coral names from a standard list of species with only a few keystrokes. Selecting names means saving time on typing in species names or cleaning up typos of misspelled species names. MERMAID also allows you to calculate reef fish biomass while you type or see your total coral cover as soon as you have finished entering a transect. When you have finished collecting data, it can be exported to standard field reports (csv/Excel) and can soon be used to create graphs or other reports.

The Mermaid Workflow:

1. Sign Up and Set Up a Project

- a. Sign up for an account
- b. Set up a project and add users
- c. Prepare for offline use

2. Collect Data

- a. Add new sites and management regimes
- b. Enter a transect
- c. Transect types
- d. Saving a transect

3. Submit and Review

- a. Success
- b. Warnings
- c. Errors

4. Export Data

- a. Review data
- b. Export

1. Sign up and Set up a Project

The first things to do are to create your MERMAID account and set up or join your first project.

A) Sign up for an account

Sign up at <https://collect.datamermaid.org>

You can sign up using an existing Google account, or enter an email and password specific for MERMAID. Your account will be linked to your email.

Only users who have a MERMAID account can be added to a project and collect data

After signing up you will receive a confirmation email to verify your new account.

You can access your profile information by clicking on the avatar in the upper right corner of any page. Here you can view and change your email and name.

Profile

Save

Email *

tester@datamermaid.org

For Mermaid notifications only and can be different from username

First Name

Mermaid

Last Name

Tester

Send Change Password Email


B) Set up a project and add users

A project consists of observation records that are collected within a set of sites that are under defined management regimes. Each project includes users who can collect and view data.

A new project can only be created while online. To create, click 'Start Project'

Start Project

Details

 MERMAID MT

New Project

1

2

3

4

5

Details

Add users

Select Sites

Select Management

Review

Name *

Mermaid Lagoon

Notes

This is the last remaining habitat of the rare coastal mermaid!

Previous

Create

Next

A name is required for every new project. All other information can be added or edited later.

Add users

New Project

1 Details 2 Add users 3 Select Sites 4 Select Management 5 Review

Enter email of user to .

Name	Role	
mermaid.sam@nonprofit.org	collect	<input type="button" value="x"/>
mermaid.maria@school.edu	read-only	<input type="button" value="x"/>
mermaid.lia@agency.gov	admin	<input type="button" value="x"/>

Enter the email addresses for users involved in the project and select their roles. **All users must be signed up for a MERMAID account before they can be added to a project.**

The project creator is automatically the administrator ('admin') of the project. Other users will default to the collector role when added and can be changed to admin or read-only by selecting the appropriate role from the dropdown. Additional users can be added or deleted by the administrator after a project is created.

The scope of each role is as follows:

- **Read-only:** user can only view, export, and analyze data in the analysis tools, but cannot collect new observations
 - *i.e. a project manager who is in charge of writing reports or analyses, but is not collecting data in the field.*
- **Collect:** user can view, export, and analyze data, and collect new observations. Once a transect is submitted, user can no longer edit or delete observations.

- *i.e. a member of the project team who is tasked with collecting data*
- **Admin:** user has full administrative privileges to add and edit observations during collection and after transects have been submitted. Admin can also delete observations.
 - *i.e. typically one person designated as the lead of the project*

Select Sites

The screenshot shows the 'New Project' workflow in the MERMAID system. The workflow consists of five steps: 1. Details, 2. Add users, 3. Select Sites (current step), 4. Select Management, and 5. Review. A blue '+ Add to Project' button is visible. Below the button is a table of existing sites with columns for Name, Country, and Project. A filter bar is located above the table.

<input type="checkbox"/>	Name	Country	Project
<input type="checkbox"/>	Air Wall	Indonesia	Mermaid 1st Project
<input type="checkbox"/>	Belongas Bay	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input type="checkbox"/>	Bronx Zoo	United States	Bronx River
<input checked="" type="checkbox"/>	Gili Asahan	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input checked="" type="checkbox"/>	Gili Gede Barat	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input checked="" type="checkbox"/>	Gili Gede Timur	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input type="checkbox"/>	Gili Goleg	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input type="checkbox"/>	Gili Layar Timur	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input checked="" type="checkbox"/>	Gili Renggit	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia
<input type="checkbox"/>	Gili Sudak Barat Laut	Indonesia	Monitoring of Coral Reef in Gita Nada, Marine Recreational Park, West Nusa Tenggara, Indonesia

This is an optional step that allows you to choose from sites that are already in the MERMAID system. These may be sites that you or your organization have created before and can save you time. Hovering over the name of the site will show you additional details. If you are surveying a new site it must be added after you create your new project, so skip this step.


The 'Filter' bar allows you to search the list by site name, country, or project. Click the check box next to any site you would like to add to your project, then click the **"Add to Project"** button at the top of the page.

How to add a new site

There are two ways to add a new site to your project after it is created:

- 1) Under “[Reference](#)” in the left toolbar, navigate to the “Sites” tab. Add a new site here.
see pg. 12 for more information
- 2) Within a transect, enter a new site in the site field with the “+”

Select Management

 MERMAID MT

New Project

1

2

3

4

5

Details

Add users

Select Sites

Select Management

Review

+ Add to Project

Filter...

Filter by name, secondary name, year established or project

<input type="checkbox"/>	Name	Project	Year Established	Applied Rules
<input type="checkbox"/>	Bronx Zoo	Bronx River	1895	
<input type="checkbox"/>	Gear restricted	Dev Team Test Project		Gear Restriction
<input type="checkbox"/>	Bronx Zoo	Dev Team Test Project	1895	
<input type="checkbox"/>	Core Zone	Mermaid 1st Project	2013	No Take
<input type="checkbox"/>	Protection Zone	Mermaid 1st Project	2013	No Take
<input type="checkbox"/>	Tourism Zone	Mermaid 1st Project	2013	No Take
<input checked="" type="checkbox"/>	WWE	MM 4/4		
<input type="checkbox"/>	Fisheries	Monitoring of Coral Reef in Gita Nada. Marine Recreational Park. West	2016	Gear Restriction.Open Access

This is an optional step that allows you to choose from management types that are already in the MERMAID system. These may be management regimes that you or your organization have created before and can save you time. Hovering over the name of the management will show you additional details. If you are surveying sites with a new management regime, or if your site's management regime has been changed, it must be added after you create your new project, so skip this step.


The 'Filter' bar allows you to search the list by management name, secondary name, year established, or project. Click the check box next to any management type you would like to add to your project, then click the “**Add to Project**” button at the top of the page.

How to add a new management regime

There are two ways to add a new management regime to your project after it is created:

- 1) Under “[Reference](#)” in the left toolbar, navigate to the “Management” tab. Add a management regime here. *see pg. 12 for more information*
- 2) Within a transect, enter a new site in the site field with the “+”

Review

 MERMAID MT

New Project

1
Details

2
Add users

3
Select Sites

4
Select Management

5
Review

Summary for Mermaid Lagoon

Project Users
tester@datamermaid.org
mermaid.lia@agency.gov
mermaid.maria@school.edu

Sites
Gili Asahan
Gili Gede Barat
Gili Gede Timur
Gili Layar Timur
Gili Renggit
Gili Sudak Barat Laut


Management Regimes
WWF

Previous

Create

Next

This is a summary of all the users, sites, and management regimes you selected for your project.

You can delete any of these selections by clicking , and you can return to each selection page to add additional information by selecting “Previous” at the bottom or by clicking the page names at the top.

An admin can add additional users and existing sites and management regimes to the project after it is created under the “Admin” section in the left toolbar.

Click “**Create**” to complete your new project!

Projects page

Projects

Start Project

Name	Countries	Number of Sites	Offline Ready
Mermaid Lagoon			
MM 4/4			

Showing 10 records. Records 1 - 2 of 2

Clicking the “MERMAID” icon in the header will take you to the “Projects” page at any time. The Projects page lists all the MERMAID projects you have created or have been added to as a user.

If you are an admin for a project, you can edit it by clicking on the project name and clicking “Admin” in the left menu. Here you can add additional users and create new sites and management regimes. **A project can only be edited while online.**

MERMAID Mermaid Lagoon MT

Collect

Backup my records Add Transect

Method	Site	Number	Observers	Status	Synced
No records found.					

Showing 10 records. Records 0 - 0 of 0

C) Prepare for Offline Use

Before heading to the field, there are a few steps that must be followed to ensure your projects are available offline.

Be sure to follow each step carefully prior to your expedition:

1. Click the “refresh” icon in the footer to make sure you have the most up-to-date version of the app
2. The project admin must create the project
3. The project admin must add all other users as collector, read-only, or admin. Optionally, copy or add sites and management regimes.
4. Each collector who will be entering data offline should, in their project list, ensure that the cloud icon to the right of the project you will use offline is green. If it is not green, click the grey icon or simply click on the project to enter it to make sure data is available offline.
5. Test offline access by turning off your wifi, restarting Chrome, and entering test data to your project.

When using MERMAID offline, make sure you use the full application address:

<https://collect.datamermaid.org> -- you **cannot** just type 'collect.datamermaid.org'.

2. Collecting Data

The screenshot shows the 'Collect' page in the MERMAID Mermaid Lagoon application. The sidebar on the left contains links for 'Collect', 'Review', 'Reference', and 'Admin'. The main content area has a 'Collect' header, a 'Backup my records' button, and an 'Add Transect' dropdown. Below this is a table with columns: Method, Site, Number, Observers, Status, and Synced. The table is empty, showing 'No records found.' and 'Showing 10 records.' at the bottom.

Select a project from your list.

The 'Collect' page is where you can collect new transect data and view the transects you have collected but not yet submitted for Review. You can also see all unsubmitted observations collected by other users in the project by clicking the "Show All Project Records" button.

Only users with 'Collector' or 'Administrator' roles can collect new transects or submit completed transects.

The **"Backup my Records"** button will export all unsubmitted transects in JSON format for saving to your local drive. This provides an additional backup that you can save to a thumb drive or email to yourself before your records are able to automatically synchronize when online using the WiFi connection.

A) Add new sites and management regimes

The “Reference” page in the left toolbar lists all the sites and management regimes you have assigned to your project, as well as all the benthic attributes and fish families, genera, and species and their biomass constants in the app. You can also add new sites and management regimes to your project within the Reference page:

Adding a new site

Navigate to the “Sites” tab under Reference, and select **“Add Site”**

Sites

[+ Add Site](#)

[Export](#) [Delete](#)

	Name	Country	Reef Type	Reef Zone	Exposure
	14a	Indonesia	barrier	crest	sheltered

Showing 10 records. Records 1 - 1 of 1

A new site requires a name, country, coordinates, and details on the exposure, reef type, and reef zone. The name can be the site’s common name or unique ID. When all details have been added, save the site.

Sites

[Save](#)

Name *

Country *

Latitude *

Longitude *

Exposure *

Reef Type *

Reef Zone *

Notes

When online, a new site created by one user is shared across the project with all other users and available for them to use in transects. If you know the sites within your project in advance, it is easiest to add them while online before going to the field. Site details can be edited after creation if needed. If users need to add new sites while offline, they must ensure that all site information is identical. Identical sites within a project will sync into a single site when users return online.

Need to add a site to your project that has already been created in a previous project? A project admin can add additional existing sites under the Admin section of the left toolbar.

<input type="checkbox"/>	Name	Country	Project
<input checked="" type="checkbox"/>	SS	Aland Islands	Test 4-18
<input type="checkbox"/>	Ahva MidWest	Papua New Guinea	DLS Spinner Test
<input type="checkbox"/>	Alans site	Canada	Alan's Project 2
<input type="checkbox"/>	a new site	Canada	Alan's Project 2
<input type="checkbox"/>	Aqaba	Jordan	Aqaba Test 3
<input type="checkbox"/>	Catfish Farm	Algeria	Alan's Project 2
<input type="checkbox"/>	Deep Water Canyon	Fiji	abc
<input type="checkbox"/>	First Project	Algeria	First project
<input type="checkbox"/>	Gili Asahan	Indonesia	Test 4-267

Check the boxes next to any sites you want in your project, then click the “Add to Project” button at the top of the page.

Adding a new management regime

Navigate to the “Management” tab under Reference, and select “Add Management Regime”

Collect

Review

Reference

Sites

Management

Fish Names

Benthic Attributes

Admin

Management Regimes

+ Add Management Regime

Export

Delete

<input type="checkbox"/>	Name	Year Established	Applied Rules
No records found.			

Showing 10 records.

Records 0 - 0 of 0

A new management regime requires a name. There are multiple dropdowns with yes/no options to include additional management details and restrictions. All details are optional. When the management name and any details have been added, save the site.

Management Regimes

Save

Name *

Secondary Name

Year Established

Area

ha

Parties

community/local government
government
NGO
private sector

Compliance

Optional estimate of level of compliance associated with this management regime

Hold down 'Control', or 'Command' on a Mac, to select or deselect more than one.

No Take

Total extraction ban

Periodic Closure

Open Access

Open for fishing and entering

Size Limits

Gear Restrictions

Species Restrictions

Notes

When online, a new management regime created by one user is shared across the project with all other users and available for them to use in transects. If you know the management regimes within your project in advance, it is easiest to add them while online before going to the field. Management regime details can be edited after creation if needed. If users need to add new management while offline, they must ensure that all

management information is identical. Identical management regimes within a project will sync into a single management regime when users return online.

Need to add a management regime to your project that has already been created in a previous project? A project admin can add additional existing management regimes under the **Admin** section of the left toolbar.

Select Management Regimes

+ Add to Project

Filter...

Filter by name, secondary name, year established or project

Name	Project	Year Established	Applied Rules
abcdefg	xxx		
Abus	Abus Bright Spots		Open Access, Species Restriction
Alan, Managament	Alan's Project 2	2009	Gear Restriction, Open Access, Periodic Closure, Species Restriction
Areba, MPA	Fiji test	2000	
Community, accessed, fisheries	Dev Last	2018	Gear Restriction, Species Restriction
Core, Zone	Test 4-267	2016	Gear Restriction, No Take, Size Limits, Species Restriction
s	Test 4-267		

Check the boxes next to any management you want in your project, then click the “Add to Project” button at the top of the page.

New fish species and benthic attributes can be added within Reference, however this is rarely needed. Proposed attributes will be reviewed by the MERMAID science team.

B) Enter a transect

Collect

Backup my records

Add Transect

- Fish Belt
- Benthic LIT
- Benthic PIT
- Habitat Complexity

Submit Delete ☐ Show All Project Records

When you’re ready to enter new data for a project, click “Add Transect” at the top right of the Collect page and select a transect type. There are currently four types of transects available on MERMAID: reef fish belt transects, coral point intercept (PIT) transects, coral line intercept (LIT) transects, and habitat complexity transects. These transects are similar

to methods described in the [Coral Reef Monitoring Protocol for Assessing Marine Protected Areas](#) (Ahmadia et. al 2013).


After selecting a transect type, you must **fill in all required fields**, marked with a red asterisk. Site and Management Regimes that you added before or after creating your project will appear in the dropdown, and you can edit an existing site with the “✎” or enter a new site with the “+”. You can also add existing and new sites and management regimes to a project in the Reference section in the left toolbar.

Optional transect information includes reef slope, visibility, current, relative depth, tide, and any other notes.

Benthic PIT

Save

Transect	
Site *	Management *
Trawangan Slope	Gear restricted
Sample date *	Sample time *
2018-04-12	11:55
Depth *	
1 m	
Transect Number *	Transect length surveyed *
1	4 m
Interval size *	Reef Slope
1 m	
Visibility	Current
Relative depth	Tide
Notes	

Each transect requires at least one ‘observer’, defined as the person or people who collected the transect observations. This is a required field, and you can choose from a drop-down list of users associated with your project. To remove an observer, click .

Observers
<div>Add observer *</div> <input type="text"/>
<div>Fraser Januchowski-Hartley</div> <div></div>

Once all required fields are completed, you can save the transect.

To duplicate any saved transect record, click the “Duplicate Transect” icon at the end of transect in the Collect page. This will copy all transect details but leave the observations blank.

Duplicate transect



C) Transect Types

Fish Belt transect

The fish belt transect records observations of fish abundance.

Each transect requires a transect number, length surveyed (m) and transect belt width (options: 2m, 5m or 10m).

Users can select how fish sizes are estimated underwater, using 1cm, 5cm or 10cm size bins.

<div>Transect Number *</div> <input type="text" value="1"/>	
<div>Transect length surveyed *</div> <input type="text" value="50"/> m	<div>Width *</div> <input type="text" value="5m"/>
<div>Fish size bin *</div> <input type="text" value="5cm"/>	<div>Reef Slope</div> <input type="text" value="slope"/>

Observations are recorded at the bottom of the page.

After you type the first three letters of an observed fish, MERMAID will provide a **predictive dropdown** with fish family, genus, or species. Select the fish observation by

using the 'up' or 'down' arrow keys or entering enough letters so that there is only one choice, and press the Enter or Return key.

New fish family, genus, or species can be added manually by clicking the "+", however this is rarely needed. Newly proposed fish will be reviewed by MERMAID science team.

Navigating through the observation fields is similar to navigating in Excel: use the 'tab' keys to move across to the Size and Count (abundance) columns; at the end of a row, press "Enter" to create a blank row to enter a new fish observation; press "Tab" at the end of a row to duplicate fish species from the previous row.

Biomass will automatically be calculated and displayed in the last column.

Observations				-	↗
Fish name *		Size *	Count *	Biomass (kg/ha)	
Scarus altipinnis	+ ✎	40 - 45 cm	3		
	+ ✎				

+ Add row

To prevent errors, MERMAID will flag the following as a warning:

- Total biomass less than 100 kg/ha or greater than 2,000 kg/ha
- Total fish count less than 10
- Total observations less than 5

Benthic LIT

This transect records observations of benthic cover from a benthic line intercept transect.

Each transect requires a transect number and the surveyed length (m).

Transect Number *	Transect length surveyed *
1	10 m

Enter the benthic observations from the transect at the bottom of the form.

MERMAID will **predict** the benthic attributes after you type the first three letters and growth forms can be selected from the dropdown list or predicted by typing the first letter.

Total length and percent cover of each benthic attribute will automatically be calculated at the bottom of the rows.

Like the fish belt method, use the 'tab' keys to move across to the attribute, growth form and length columns. At the end of the row, press Enter to create a blank row to add a new benthic attribute observation. If the same attribute is required but with a different length, press the 'Tab' key at the end of the row to duplicate the benthic attribute in the next row.

Benthic attribute *	Growth form	Length *
CCA - Crustose coralline algae	Encrusting	112 cm
Bare substrate		55 cm
Acroporidae	Corymbose	2 cm
+ Add row		Total cm 169
		% Bare substrate 32.5
		% CCA - Crustose coralline algae 66.3
		% Hard coral 1.2

Benthic PIT

This transect records observations of benthic cover from a benthic point intercept transect (PIT) survey.

Each transect requires a transect number, the surveyed length (m), and the interval between point observations (m). E.g., counting points every 50 cm can be entered at 0.5 m in the "Interval size" box.

Transect Number * <input type="text" value="1"/>	Transect length surveyed * <input type="text" value="30"/> m
Interval size * <input type="text" value="0.5"/> m	Reef Slope <input type="text" value="slope"/>

Enter the benthic attribute observed at each point at the bottom of the page.

Interval *	Benthic attribute *	Growth form
5	Cyanobacteria	Encrusting
10	Rock	
15	Sand	
20	CCA - Crustose coralline algae	Encrusting
25	Galaxea astreata	Submassive
+ Add row		
% Bare substrate		40.0
% CCA - Crustose coralline algae		20.0
% Hard coral		20.0
% Macroalgae		20.0

MERMAID will predict the benthic attributes after you type the first three letters and growth forms can be selected from the dropdown list or predicted by typing the first letter.

New benthic attributes can be added manually by clicking the “+”, however this is rarely needed. Proposed attributes will be reviewed by the MERMAID science team.

The number of rows should equal the total number of expected points based on your transect length and interval size. You will receive a warning if the number of entered rows does not match this.

The percent cover of each benthic attribute in the transect will automatically be calculated and displayed at the bottom of the rows.

Habitat Complexity

This transect records observations of benthic habitat complexity on a scale of 0 to 5, based on the methodology proposed in Wilson et al. (2007) and described in Darling et al. (2017) and Gurney and Darling (2017). The visual score ranges from 0 (flat) to 5 (highly

complex), which has been shown to be an important predictor of reef fish biomass (Darling et al. 2017).

During underwater surveys, complexity scores are assigned to one of the following categories between 0 and 5:

Habitat Complexity Visual Score	Relief level
0	No vertical relief, flat or rubbly areas
1	Low (<30 cm high) and sparse relief
2	Low but widespread relief
3	Widespread moderately complex (30-60cm high) relief
4	Widespread very complex (60-100 cm high) relief with numerous fissures and caves
5	Exceptionally complex (>1 m high) relief with numerous caves and overhangs

Along each transect, structural complexity can be estimated multiple times (e.g., every 5 m) to provide an average structural complexity score per transect.

To enter a habitat complexity transect, you will need to provide a transect number, the surveyed transect length (m), and the interval between complexity observations (m). E.g., assessing complexity 5 m can be entered at '5 m' in the "Interval size" box.

Transect Number *

Interval size *

 m

Transect length surveyed *

 m

Reef Slope

Enter the habitat complexity score at each interval at the bottom of the page. You must have as many rows of observations as you do intervals in the transect length.

Interval *	Habitat Complexity Score *
5 m	0 no vertical relief, flat or rubbly areas
10 m	4 widespread very complex (60-100cm) relief with numerous fissures and caves
15 m	5 exceptionally complex (>1m) relief with numerous caves and overhangs
20 m	3 widespread moderately complex (30-60cm) relief
25 m	3 widespread moderately complex (30-60cm) relief
30 m	<div>0 no vertical relief, flat or rubbly areas ✓ 1 low (<30cm) and sparse relief 2 low but widespread relief 3 widespread moderately complex (30-60cm) relief 4 widespread very complex (60-100cm) relief with numerous fissures and caves 5 exceptionally complex (>1m) relief with numerous caves and overhangs</div>

+ Add row

C) Saving a transect

Once you complete all required fields you can save your transect in the upper right corner. **The save button is bright green to indicate that there is information to be saved. If the button is greyed out and cannot be saved, it means the transect is already saved.**

After saving, you can always return to the transect to add or change data and information.

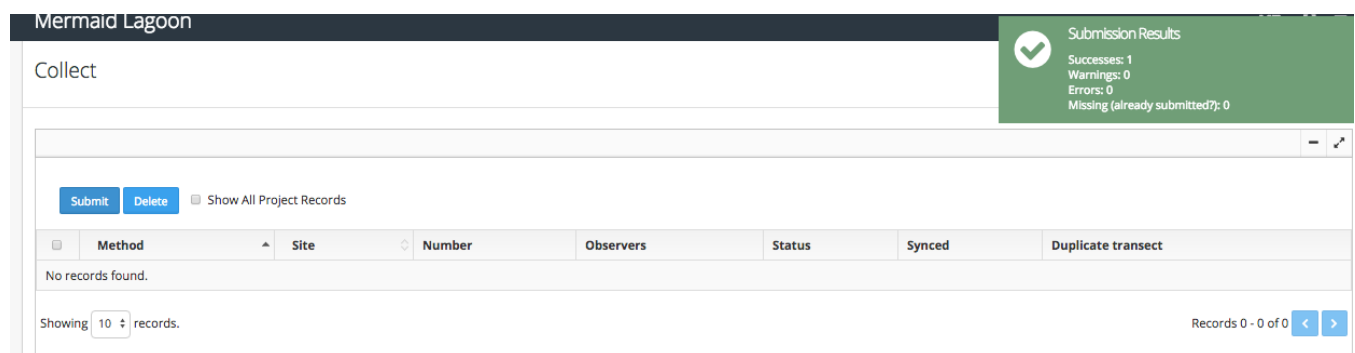
If you try to navigate away from a page with unsaved information, you will see a warning on the screen that you have unsaved data.

3. Submit and Review

Data is submitted when it is considered finalized. Submitting data moves it from the Collect page to the Review page. This shares your observations with the other users in the project, and admins can edit and delete submitted data. Submitted can then be exported as a .csv.

To submit data, check the boxes next to each transect that you are ready to submit and click “**Submit**” at the top of the page. You will receive one of the following notifications:

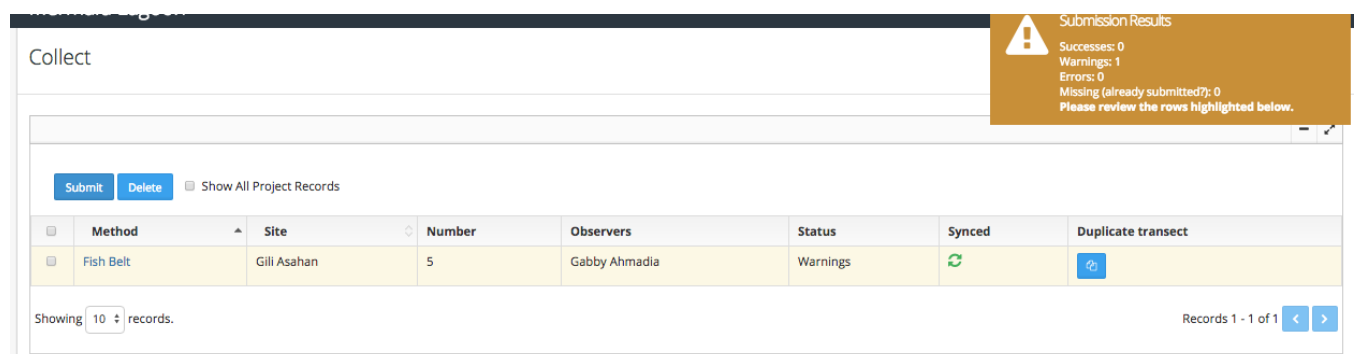
A) Success



The screenshot shows the 'Mermaid Lagoon' Collect page. A green notification box in the top right corner displays a checkmark icon and the text: 'Submission Results', 'Successes: 1', 'Warnings: 0', 'Errors: 0', 'Missing (already submitted?): 0'. Below the notification, the page has a 'Collect' header, a 'Submit' button, a 'Delete' button, and a 'Show All Project Records' link. A table with columns: Method, Site, Number, Observers, Status, Synced, and Duplicate transect is shown. The table is empty with the text 'No records found.' and 'Showing 10 records.' at the bottom.

Nice work, your transect was submitted successfully! It has been moved from the Collect page to the Review page.

B) Warning



The screenshot shows the 'Mermaid Lagoon' Collect page. An orange notification box in the top right corner displays a warning icon and the text: 'Submission Results', 'Successes: 0', 'Warnings: 1', 'Errors: 0', 'Missing (already submitted?): 0', 'Please review the rows highlighted below.' Below the notification, the page has a 'Collect' header, a 'Submit' button, a 'Delete' button, and a 'Show All Project Records' link. A table with columns: Method, Site, Number, Observers, Status, Synced, and Duplicate transect is shown. The first row is highlighted in yellow and contains: Method: Fish Belt, Site: Gili Asahan, Number: 5, Observers: Gabby Ahmadia, Status: Warnings, Synced: (refresh icon), Duplicate transect: (edit icon). The table footer shows 'Showing 10 records.' and 'Records 1 - 1 of 1'.

An orange warning and yellow highlight will appear if MERMAID identifies a potential issue in your transect information or data. To see the issue, click into the flagged transect and the warning(s) will be listed at the top of the page.

Fish Belt

Save

Submission Results

2 warnings

- obs_belt_fishes: Less than 5 observations
- obs_belt_fishes: Fish biomass greater than 2000 kg/ha

Clear

Transect

You can decide whether the issue is valid for your data. If the issue was due to an entry mistake, you can edit and save the transect again. If the flagged issue was not a mistake, you can return to the Collect page and resubmit the observation again. This will override the warning and all issues will be marked as resolved. Whether or not you decide to edit the issues flagged, MERMAID will notify you that you are submitting a transect that had previously been flagged with a warning.

Method	Site	Number	Observers	Status	Synced
Fish Belt	Gili Asahan	8	Gabby Ahmadi	Warnings	

Warning

There is 1 record that has been previously submitted. Any warnings for that record will be marked as resolved.

Do you wish to continue?

YesNo

C) Error

MERMAID LOGIN

Collect

Submission Results

Successes: 0

Warnings: 0

Errors: 1

Missing (already submitted?): 0

Please review the rows highlighted below.

Add Transect

SubmitDeleteShow All Project Records

	Method	Site	Number	Observers	Status	Synced	Duplicate transect
<input type="checkbox"/>	Habitat Complexity	Gili Renggiti	100	Kim Fisher	Errors		

Showing 10 records.

Records 1 - 1 of 1

A red warning and red highlight will appear if MERMAID identifies an error in a transect's information or data. To see the error, click into the transect and it will be listed at the top of the page. The error must be resolved before the transect can be submitted, and it cannot be overridden.

4. Export Your Data

A) Review data


You can view your submitted transects in the Review tab in the toolbar.

If you are the admin for a project you can edit all data that has been submitted by you or another observer. You can also delete data. If you are an observer on a project you cannot edit submitted data and you must contact your project admin. If you are a read-only member on a project you can only see data once it has been submitted, but you cannot edit this data.

B) Export

If you would like to have your data in tabular format, you can download a .csv of your transects in Review. Check the boxes of transects that you would like to have exported, and click the “Export to CSV” button at the top of the page. All selected observations will be combined in a single file.

Questions? You can reach out to us when online via the contact form at the bottom of any page.

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THANK YOU FOR USING MERMAID!