

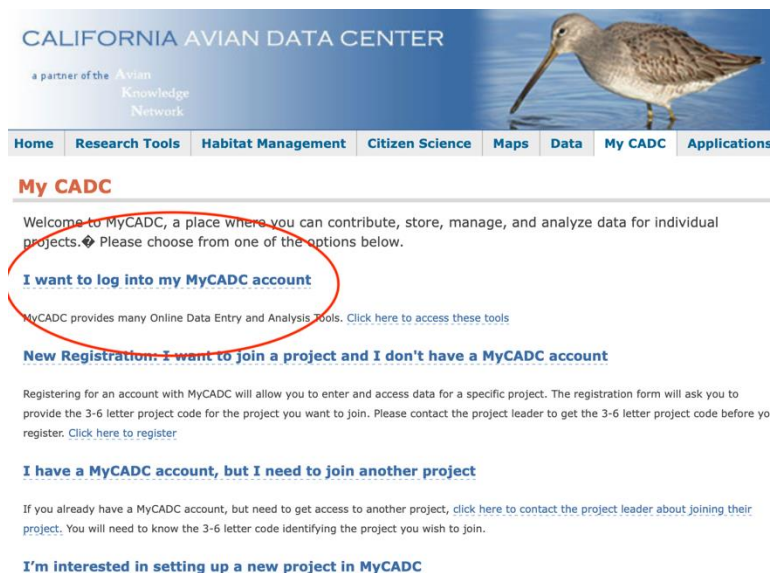
Using CADC2 to record your block observations for MCBBA2

This document will teach you how to log into CADC2 and use it to record your breeding bird observations.

1. Click <https://data.pointblue.org/cadc2/> to open the screen shown below and then click the “Go” button in the orange/red box on the right.



2. Click the blue link labelled **I want to log into MyCADC account.**



3. Click the blue link labelled **Biologists.**

My CADC Applications

MyCADC Data Entry Application List

Citizen Scientists

Application for Citizen Scientist volunteers to enter the data that they have collected for a project.

Biologists

Application for all Biologists, including browsing Sampling Units and entering observation data.
(For the older version... [Biologists](#))

Project Leaders

Application for all Project Leaders, including defining Sampling Units and providing access for Researchers to your Projects.

Analysts Tools


Application with tools to retrieving and analyzing observation data.

If you do not have an login to access these applications, please see our [page on how to get a new account on MyCADC](#).

4. Enter your email address and press the blue **Enter** button.

Biologists

Login to Biologists




Email

Enter Cancel

5. Enter your password and then click the blue **Login** button.

Biologists

Login to Biologists



Email

Password

Login Cancel

[Forgot your password? Get a reset email.](#)

6. Make sure that MCBBA2- Marin County Breeding Bird Atlas 2 is the highlighted project and then select **Area Search Surveys** from the list on the right, under the large heading labelled “**Project Observation Types**”.

Welcome to AKN Biologists

AKN Biologists is an application for entering and reviewing field observations in support of the Avian Knowledge Network, hosted by [Point Blue Data Solutions](#)

Projects

What project do you want to work in?

[Quick Tips >>](#)

MCBBA2 - Marin County Breeding Bird Atlas 2
SFSS - San Francisco Shorebird Surveys

Project Observation Types

For project: MCBBA2

What type of observations would you like to work on?

[Quick Tips >>](#)

- [Area Search Surveys](#)
- [Site Conditions](#)

Locations and Sampling Units

- [Get GPS files or maps for Project](#) ▶

7. Locate and then select your block from the long list of all survey blocks.


Area Survey Locations

Where are the observations located?

[Quick Tips >>](#)

- [A > 1-10 \(1-10\)](#)
- [A > 1-12 \(1-12\)](#)
- [A > 1-19 \(1-19\)](#)
- [A > 1-20 \(1-20\)](#)
- [A > 1-21 \(1-21\)](#)
- [A > 1-22 \(1-22\)](#)
- [A > 1-23 \(1-23\)](#)
- [A > 1-24 \(1-24\)](#)
- [A > 1-7 \(1-7\)](#)
- [A > 1-8 \(1-8\)](#)
- [A > 1-9 \(1-9\)](#)
- [A > 2-13 \(2-13\)](#)
- [A > 2-14 \(2-14\)](#)
- [A > 2-15 \(2-15\)](#)
- [A > 2-16 \(2-16\)](#)
- [A > 2-17 \(2-17\)](#)
- [A > 2-18 \(2-18\)](#)
- [A > 2-2 \(2-2\)](#)
- [A > 2-20 \(2-20\)](#)
- [A > 2-22 \(2-22\)](#)
- [A > 4-11 \(4-11\)](#)
- [A > 4-12 \(4-12\)](#)
- [A > 4-9 \(4-9\)](#)
- [A > 5-1 \(5-1\)](#)
- [A > 5-10 \(5-10\)](#)
- [A > 5-11 \(5-11\)](#)
- [A > 5-12 \(5-12\)](#)
- [A > 5-13 \(5-13\)](#)
- [A > 5-15 \(5-15\)](#)
- [A > 5-16 \(5-16\)](#)
- [A > 5-17 \(5-17\)](#)
- [A > 5-18 \(5-18\)](#)
- [A > 5-19 \(5-19\)](#)
- [A > 5-2 \(5-2\)](#)

8. Click the blue **Start** button to begin your new survey.


Biologists  **Project:** MCBBA2 (Biologist) **Type:** Area Search **Location:** 5-12 (5-12)


You have observations that have not been saved. [Go to the observations page and save to database](#) or [discard it](#).

[Quick Tips >>](#)


+ Create a new visit
Choose from the protocols below and select the *Start* button.

[Quick Tips >>](#)

Observation protocol 
MARIN_BBA - BBA for Marin county CA

Site condition protocol 
MARIN_BBA_EVENT - Event data for Marin BBA surveys


Start

 Review / edit an existing visit
Review and edit an existing visit below by selecting the date.

[Quick Tips >>](#) 0 rows


No events at this location.

9. In the **General information** section, enter the Date, Start Time, and End Time of your visit. You'll need to type "pm" if your start and end times were in the afternoon, or just enter the times using military time. For example, you could type either 1:30 pm or 13:30.

Biologists 




Project: MCBBA2 (Biologist) **Type:** Area Search **Location:** 12-22 (12-22) **Visit:** New

Protocols: [MARIN_BBA](#)
[MARIN_BBA_EVENT](#)



 General

Enter the following overall information about your visit.

[Quick Tips >>](#)

Date  **Start Time ** **End Time **

2021-04-21 09:00 13:00

Visit  **Data Sharing **

None

10. Select your name from the drop-down list, then enter the number of observers and type in the other observer names (if any).

Biologists

Project: MCBBA2 (Biologist) Type: Area Search Location: 12-22 (12-22) Visit: New

Protocols: MARIN_BBA, MARIN_BBA_EVENT

on about your visit.

End Time ⓘ

13:00

of other observers ⓘ

1

Other observer names ⓘ

Enter names

Browne, Brian
 Burke, Shannon
 Clark, Natalie
 Clark, Everett
 Cochrane, Connor
 Corneliussen, Lucas
 Dettling, Mark
 DiLuzio, Patricia
 ERICKSON, Tiffany
 Elrod, Megan
 Ford, Brandy
 Garcia, Juan
 Gardali, Tom
 Gedney, Jack
 Grover, Whitney
 Hatch, Daphne
 Hedgpeth, Joel
 Herlocker, David
 Humple, Diana
 Hunn, Eugene
 Jones, Bill
 ✓ Kelly, Susan
 Legge, William

11. In the **Site Conditions** section, enter your party hours (in **.25 hour increments**) and distance traveled (in **.5 kilometer increments**). To convert miles to kilometers, multiply your miles * 1.609344.

Biologists 🏠

Project: MCBBA2 (Biologist) Type: Area Search Location: 12-22 (12-22) Visit: New

Protocols: MARIN_BBA, MARIN_BBA_EVENT

🌲 **Site Conditions**

Enter the following data about your visit for this date.

[Quick Tips >>](#)

TRANSECT

* Party Hours ⓘ

* Distance Traveled ⓘ

km

12. In the **Observations** section enter your data from this visit, including species, count, breeding code, and (only for the breeding codes detailed on the next page) the latitude and longitude where you observed them. Once you start typing the species code, a drop-down list will appear so you can select the correct code, as shown below.

Observations

Enter the species you observed at this location.

[Quick Tips >>](#)

[Search the species database for what species are allowed for this Protocol](#)

Enter a Count for each Species entered. Click **Save All** below when finished.

If you did not see any species, leave this area blank and click **Save - No Species Detected** below.

Protocol: [MARIN_BBA](#)

| # | Species ⓘ | Count ⓘ | Breeding ⓘ | Latitude ⓘ | Longitude ⓘ | Notes ⓘ | |
|-----------|---|---------|------------|------------|-------------|---------|---|
| 1 | can | | | | | | ✕ |
| 2 | CANG - Canada Goose | | | | | | ✕ |
| 3 | CAGO - Canada Goose | | | | | | ✕ |
| 4 | AMWI - American Wigeon | | | | | | ✕ |
| 5 | ABDU - American Black Duck | | | | | | ✕ |
| 6 | MEDU - Mexican Duck | | | | | | ✕ |
| 7 | CANV - Canvasback | | | | | | ✕ |
| 8 | AMFL - American Flamingo | | | | | | ✕ |
| 9 | GFLA - American Flamingo | | | | | | ✕ |
| 10 | AWPE - American White Pelican | | | | | | ✕ |
| 11 | BRPE - Brown Pelican | | | | | | ✕ |
| 12 | AMBI - American Bittern | | | | | | ✕ |
| 13 | AMKE - American Kestrel | | | | | | ✕ |
| 14 | AMCO - American Coot | | | | | | ✕ |
| 15 | AMGP - American Golden-Plover | | | | | | ✕ |
| 16 | LGPL - Unid. Lesser or American Golden-Plover | | | | | | ✕ |
| 17 | AMOY - American Oystercatcher | | | | | | ✕ |
| 18 | AMAV - American Avocet | | | | | | ✕ |
| 19 | AMWO - American Woodcock | | | | | | ✕ |
| 20 | AFCD - African Collared-Dove | | | | | | ✕ |
| | MWPW - Mexican Whip-poor-will | | | | | | ✕ |
| | MEVI - Mexican Violetear | | | | | | ✕ |
| | KBTO - Keel-billed Toucan | | | | | | ✕ |
| | CAJA - Canada Jay | | | | | | ✕ |
| + 20 rows | AMCR - American Crow | | | | | | |
| | CANW - Canyon Wren | | | | | | |
| | AMDI - American Dipper | | | | | | |
| | AMRO - American Robin | | | | | | |
| | AMPI - American Pipit | | | | | | |

Save All

Save - No Species Detected

If you've observed more than one breeding code for the same species, create additional rows for that species and use the relevant breeding code for each row. As shown below, I recorded 3 CANG (Canada Goose) in the first row and 40 in the second because we observed 3 goslings with their parents. I entered the goslings as FY (Fledged Young) in the first row and recorded the other CANGs with the code H.

Observations

Species observations with details, layout and titles dependent on protocol.




























[Quick Tips >>](#)

☐ Scroll observations (Beta)

Observation Protocol: [MARIN_BBA](#)

Total Birds Counted: 409

[Download CSV](#)

| Species ⓘ | Count ⓘ | Breeding ⓘ | Latitude ⓘ | Longitude ⓘ | Notes ⓘ | |
|-----------|---------|------------|------------|-------------|---|---|
| CANG | 3 | FY | 38.02846 | -122.51719 | |  |
| CANG | 40 | H | | | |  |
| MUSW | 2 | H | | | |  |
| GADW | 6 | P | | | |  |
| BRBL | 8 | M | | | |  |
| RWBL | 20 | M | | | |  |
| WEBL | 1 | AE | 38.02291 | -122.52015 | Observed an adult sitting on top of a nest box, flying off, an... |  |
| AMCO | 12 | H | | | |  |
| AMCR | 4 | H | | | |  |
| MODO | 2 | H | | | |  |
| GREG | 3 | O | | | |  |
| HOFI | 10 | H | | | |  |
| COGA | 1 | H | | | |  |
| LEGO | 1 | H | | | |  |
| NOHA | 2 | P | | | |  |
| NOHA | 2 | V | 38.02257 | -122.50679 | |  |
| GRHE | 1 | H | | | |  |
| ANHU | 3 | M | | | All males, all displaying |  |
| KILL | 1 | O | | | |  |
| WTKI | 1 | A | 38.02605 | -122.51867 | Observed an adult WTKI repeatedly mobbing an AMCR in th... |  |
| MALL | 50 | H | | | |  |
| MALL | 2 | FY | 38.02740 | -122.51741 | Swimming with an adult female in the first pond at Las Galli... |  |
| NOMO | 3 | M | | | |  |
| BCNH | 5 | H | | | |  |
| BLPH | 1 | H | | | |  |
| ROPI | 15 | H | | | |  |
| CORA | 1 | H | | | |  |

Always enter the latitude and longitude for the “higher-level Probable” and Confirmed codes listed in the table below. **Be sure to enter them in decimal format (5 digits to the right of the decimal point is preferred), as shown in the previous illustration.**

You can use the MCBBA Data Explorer to help you determine the coordinates, as explained in the section that follows these instructions, under the heading **How to use the MCBBA Data Explorer’s Print Map feature.**

| | |
|------------------|---|
| Probable | |
| T | Territorial behavior, singing 7+ days |
| D | Displays, bonding, copulation |
| V | Visiting potential nest site |
| N | Nest building by wren, woodpecker, corvid, plover |
| Confirmed | |
| NB | Nest building/ all other spp. |
| DD | Distraction display |
| NU | Nest recently used |
| FY | Fledged young |
| AE | Adult entering nest site |
| FS | Fecal sac |
| CF | Carrying food |
| NE | Nest with eggs |
| NY | Nest with young |

13. If you have more than 20 observations, use the blue [Add more](#) button to add more rows.

A blue rectangular button with rounded corners, containing a white plus sign followed by the text "Add more".

14. When you've entered all your observations, click the blue Save All button at the bottom of the list of observations.

A blue rectangular button with rounded corners, containing the text "Save All" in white.

Now your observations are saved in the database. The data status is "Raw" so you can still review your entries and edit as necessary. Notice the message shown below that explains how to edit: **Double click to edit** any data with the blue vertical bar (|) next to it.

Review or Edit Area Search / Area Survey Visit

Detailed information about a specific set of observations for a survey. **Double click to edit** any data with the blue vertical bar (|) next to it.

 [Quick Tips >>](#)

15. Once you're certain you've entered all your observations correctly, click the blue button labeled ["Proofing completed."](#)

Data status is currently RAW. When you have finished proofing and reviewing this visit, click:

✓ Proofing completed

How to Look up a Species Code

If you're unsure of a species code click the blue link near the top of the screen, [Search the species database for what species are allowed for this Protocol](#).

Observations

Enter the species you observed at this location.

 [Quick Tips >>](#)

[Search the species database for what species are allowed for this Protocol](#)

Enter a Count for each Species entered. Click **Save All** below when finished.

If you did not see any species, leave this area blank and click **Save - No Species Detected** below.

Protocol: [MARIN_BBA](#)

Species Lookup For Protocol MARIN_BBA

Type (at least 2 letters) to lookup either a species scientific name, common name and/or a 4 letter species code.

Search for:

swallow

23 found

| | | |
|--|---|--|
| STKI: Swallow -tailed Kite Elanoides forficatus | STGU: Swallow -tailed Gull Creagrus furcatus | LSTS: Lesser Swallow -tailed Swift Panyptila cayennensis |
| GSTS: Great Swallow -tailed Swift Panyptila sanctihieronymi | TRES: Tree Swallow Tachycineta bicolor | MANS: Mangrove Swallow Tachycineta albilinea |
| GOSW: Golden Swallow Tachycineta euchrysea | VGSW: Violet-green Swallow Tachycineta thalassina | BAHS: Bahama Swallow Tachycineta cyaneoviridis |
| BAWS: Blue-and-white Swallow Pygochelidon cyanoleuca | BCSW: Black-capped Swallow Notiochelidon pileata | WTGS: White-thighed Swallow Neochelidon tibialis |
| NRWS: Northern Rough-winged Swallow Stelgidopteryx serripennis | SRWS: Southern Rough-winged Swallow Stelgidopteryx ruficollis | BANS: Bank Swallow Riparia riparia |
| CLSW: Cliff Swallow Petrochelidon pyrrhonota | CASW: Cave Swallow Petrochelidon fulva | PERU: Chestnut-collared Swallow Petrochelidon rufocollaris |
| BARS: Barn Swallow Hirundo rustica | UNSW: Unid. Swallow Hirundinidae sp. | XXSW: Unid. Swallow /Swift Aves sp. |
| XSWA: Unid. Swallow Hirundinidae sp. | SWTA: Swallow Tanager Tersina viridis | |

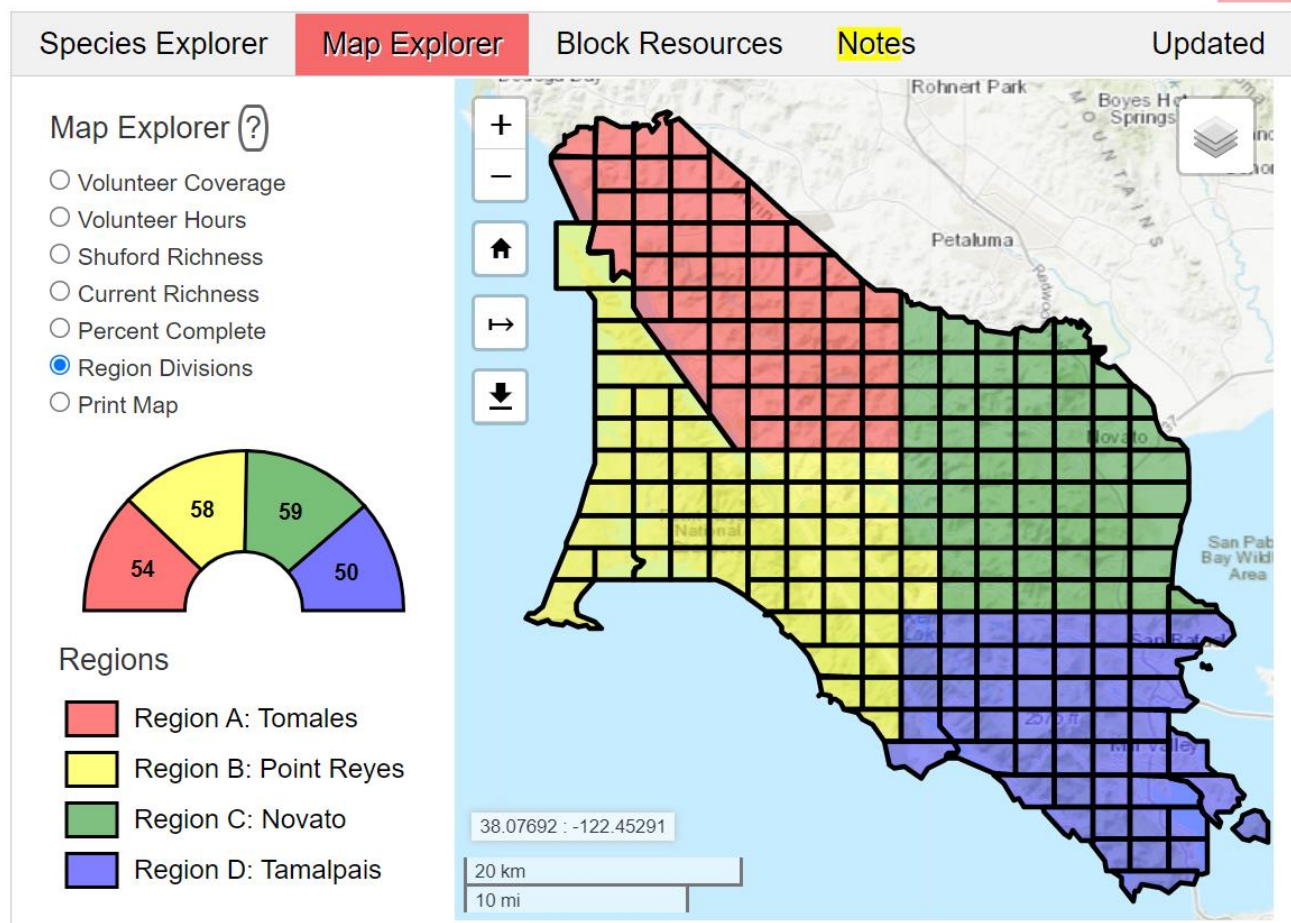
In the example shown above I searched for *swallow* and found 23 codes for the different species of swallows permitted in this database. Notice that it includes the code **XSWA** for swallows that can't be identified to a specific species.

MCBBA2 Contacts

MCBBA2's grid system is organized into four regions, shown below in a map that can be viewed in more detail in the Data Explorer > Map Explorer on our webpage (<https://marinaudubon.org/birds/marin-county-breeding-bird-atlas/>).

Block leaders, additional observers, and prospective volunteers should reach out to the Regional Coordinator who oversees the region where their block is located for any questions. See the website for current Regional Coordinators and contacts. Questions at any time can also be asked of our Steering Committee members.

MCBBA Data Explorer



Resources

- MCBBA2 Website - <https://marinaudubon.org/birds/marin-county-breeding-bird-atlas/>
- The MCBBA Data Explorer - <https://mcbba.github.io/webmap/mcbba>
- Dave Shuford's original Marin Breeding Bird Atlas - <https://archive.org/details/marincountybreed00shuf>
- Map Plus User Guide - https://duweis.com/en/mapplus_guide.html

- Schechter Natural History's Bird Codes, a smartphone tool to look up bird four-letter bird species codes. <https://schechterguides.com/bird-codes/>