

## 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.



CALIFORNIA AVIAN DATA CENTER  
a partner of the Avian Knowledge Network

Home Research Tools Habitat Management Citizen Science Maps Data My CADC Applications About

The California Avian Data Center (CADC), a regional node of the Avian Knowledge Network (AKN) hosted by Point Blue Conservation Science, integrates data on birds and ecosystems to improve conservation outcomes today and in the future. [Learn more>>](#)

**My CADC**  
Manage & Query Your California Avian Data  
[Go](#)

If you are interested in becoming a CADC Partner, please contact us.

Like 0 Tweet

Page 1 of 5 >>>  
**New Report on SF Bay Sea Level Rise**  
We have released a new technical report to the California State Coastal Conservancy. We report on tidal marsh bird population projections for four different suspended sediment and sea level rise scenarios over the next century in the San Francisco Estuary. We also report on tidal marsh bird population projections that rank the landscape for conservation priorities and existing and proposed wetland restoration projects. [Click here to download the report.](#)

**Bird Species of Special Concern**  
New study will help protect vulnerable birds from impacts of climate change. PRBO, with CA Department of Fish and Game, identified the birds in CA most at risk given climate change. Highly vulnerable birds include wetlands, coastal and endangered species. [Click this link to explore the site. Click here to read the PLoS one article.](#)

**New Modeling Results for Bird Distribution Responses to Climate Change**  
We present new modeling results for nearly 200 bird species in 7 major habitat types found within California. This online tool allows you to visually examine the impact of climate change on bird distributions. [Click here to explore these new results.](#)

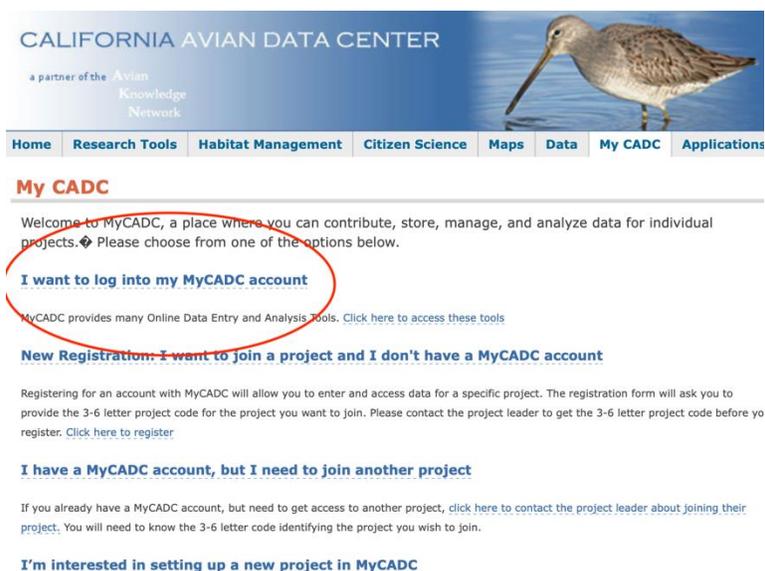
**Featured CADC applications**  
**Future San Francisco Bay Tidal Marshes**  
Climate Smart Planning Tool

**Habitat Management**  
For people involved in habitat restoration, protection, and conservation.

**Research Tools**  
For scientists and researchers who are conducting avian research and performing original investigations.

**Citizen Science**  
For the public to explore and find out about how collecting avian data can help conserve birds and their habitats.

2. Click the blue link labelled [I want to log into MyCADC account.](#)



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Home Research Tools Habitat Management Citizen Science Maps Data My CADC Applications

**My CADC**

Welcome to MyCADC, a place where you can contribute, store, manage, and analyze data for individual projects. Please choose from one of the options below.

[I want to log into my MyCADC account](#)

MyCADC provides many Online Data Entry and Analysis Tools. [Click here to access these tools](#)

**New Registration: I want to join a project and I don't have a MyCADC account**

Registering for an account with MyCADC will allow you to enter and access data for a specific project. The registration form will ask you to provide the 3-6 letter project code for the project you want to join. Please contact the project leader to get the 3-6 letter project code before you register. [Click here to register](#)

**I have a MyCADC account, but I need to join another project**

If you already have a MyCADC account, but need to get access to another project, [click here to contact the project leader about joining their project](#). You will need to know the 3-6 letter code identifying the project you wish to join.

**I'm interested in setting up a new project in MyCADC**

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

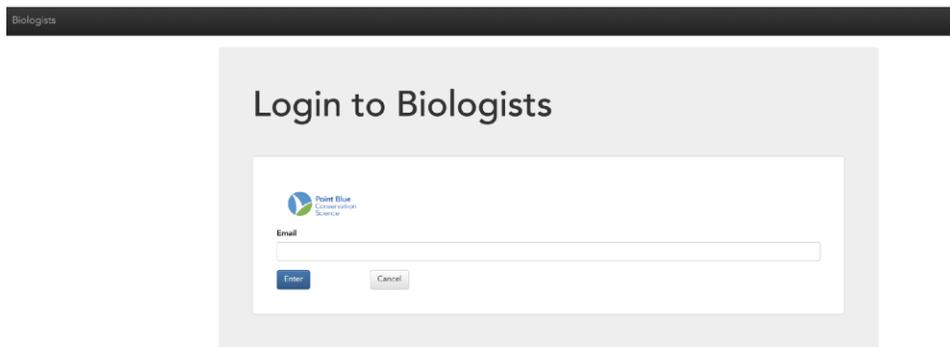
Application for all Project Leaders, including defining Sampling Units and providing access for Researchers to your Projects.

#### Analysts Tools

Application with tools to retrieving and analyzing observation data.

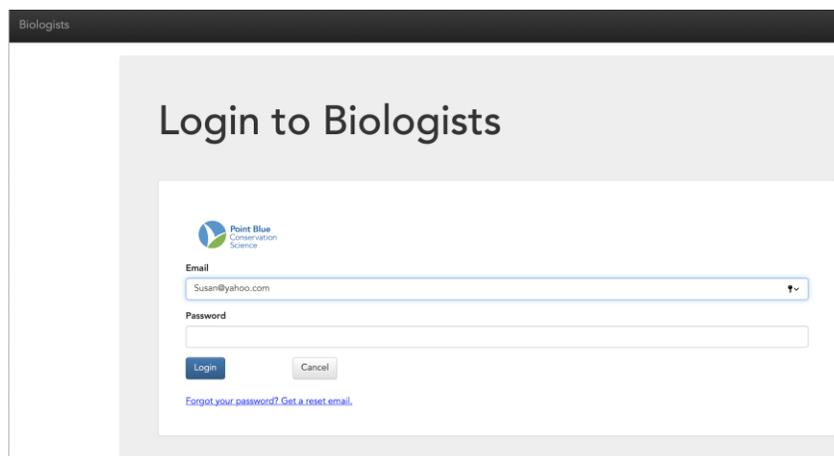
If you do not have an login to access these applications, please see our [page on how to get a new account on MyCADC](#).

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



The screenshot shows a web browser window with a black header bar containing the word "Biologists". The main content area is a light gray box titled "Login to Biologists". Inside this box, there is a white rectangular form. At the top left of the form is the "Point Blue Conservation Science" logo. Below the logo is the label "Email" followed by a text input field. The "Enter" button is highlighted in blue, and the "Cancel" button is gray.

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



The screenshot shows the same "Login to Biologists" form as in the previous step. The "Email" field now contains the text "Susan@yahoo.com". Below it is the "Password" label followed by a text input field. The "Login" button is highlighted in blue, and the "Cancel" button is gray. At the bottom of the form, there is a blue link that says "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.

Biologists  Project: MCBBA2 (Biologist) Type: Area Search

### 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 \(5-2\)](#)
- [A > 5-22 \(5-22\)](#)
- [A > 5-23 \(5-23\)](#)
- [A > 5-24 \(5-24\)](#)

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

- Browne, Brian
- Burke, Shannon
- Clark, Natalie
- Clark, Everett
- Cochrane, Connor
- Corneliussen, Lucas
- Dettling, Mark
- DiLuzio, Patricia
- ERICKSON, Tiffany
- Eirod, 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

Area Search    **Location:** 12-22 (12-22)    **Visit:** New

on about your visit.

**End Time** ⓘ

13:00

**# of other observers** ⓘ

1

**Other observer names** ⓘ

Enter names

- 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

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

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.**

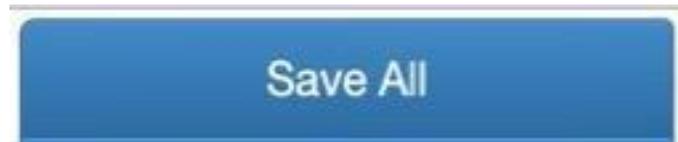
You can use the MCBBA Data Explorer to help you determine the coordinates, as explained in the section that follows these instructions, under the heading **How to use the MCBBA Data Explorer’s Print Map feature.**

<b>Probable</b>	
T	Territorial behavior, singing 7+ days
D	Displays, bonding, copulation
V	Visiting potential nest site
N	Nest building by wren, woodpecker, corvid, plover
<b>Confirmed</b>	
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.



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



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

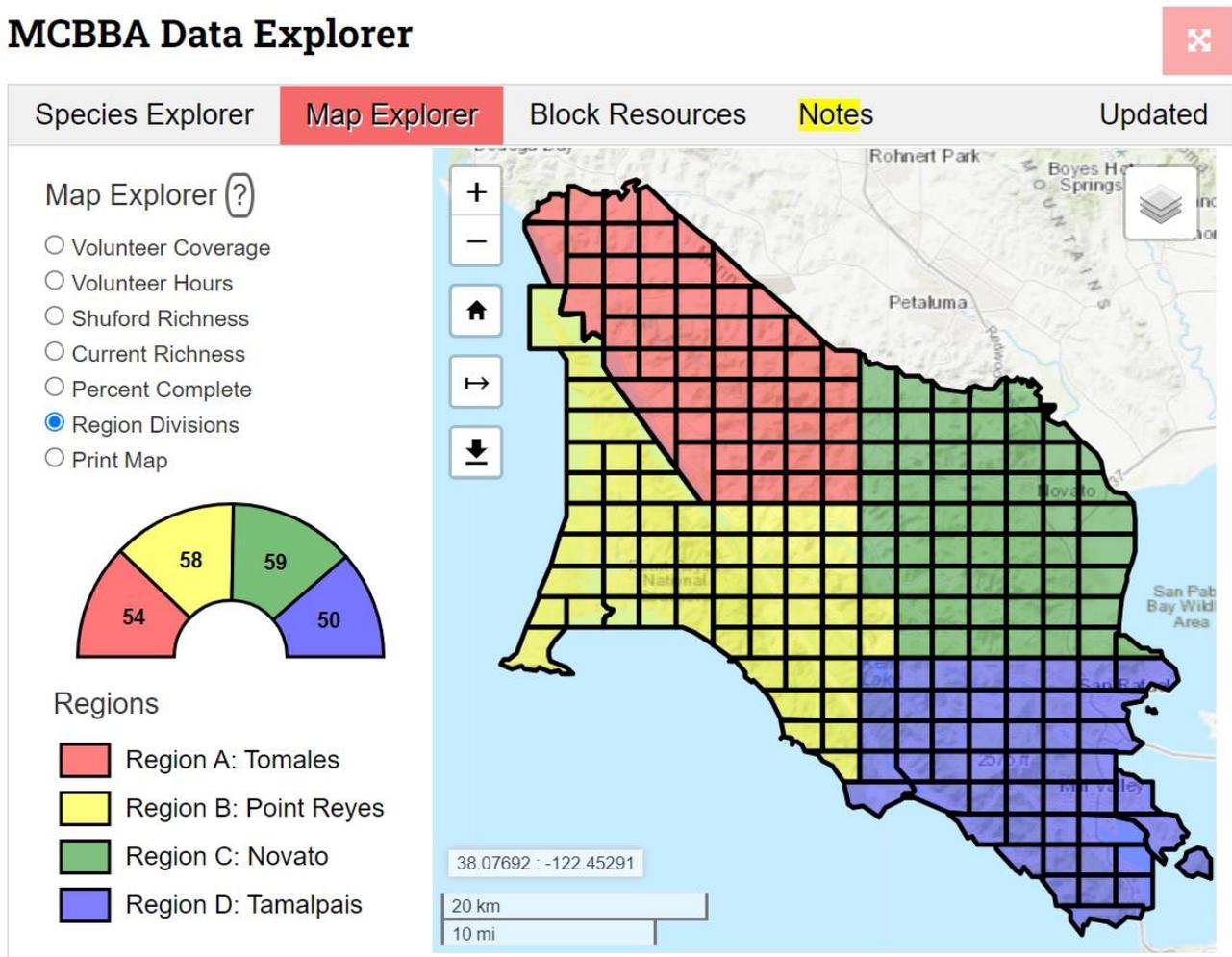
In the example shown above I searched for *swallow* and found 23 codes for the different species of swallows permitted in this database. Notice that it includes the code **XSWA** for swallows that can't be identified to a specific species.

## 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](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/>