

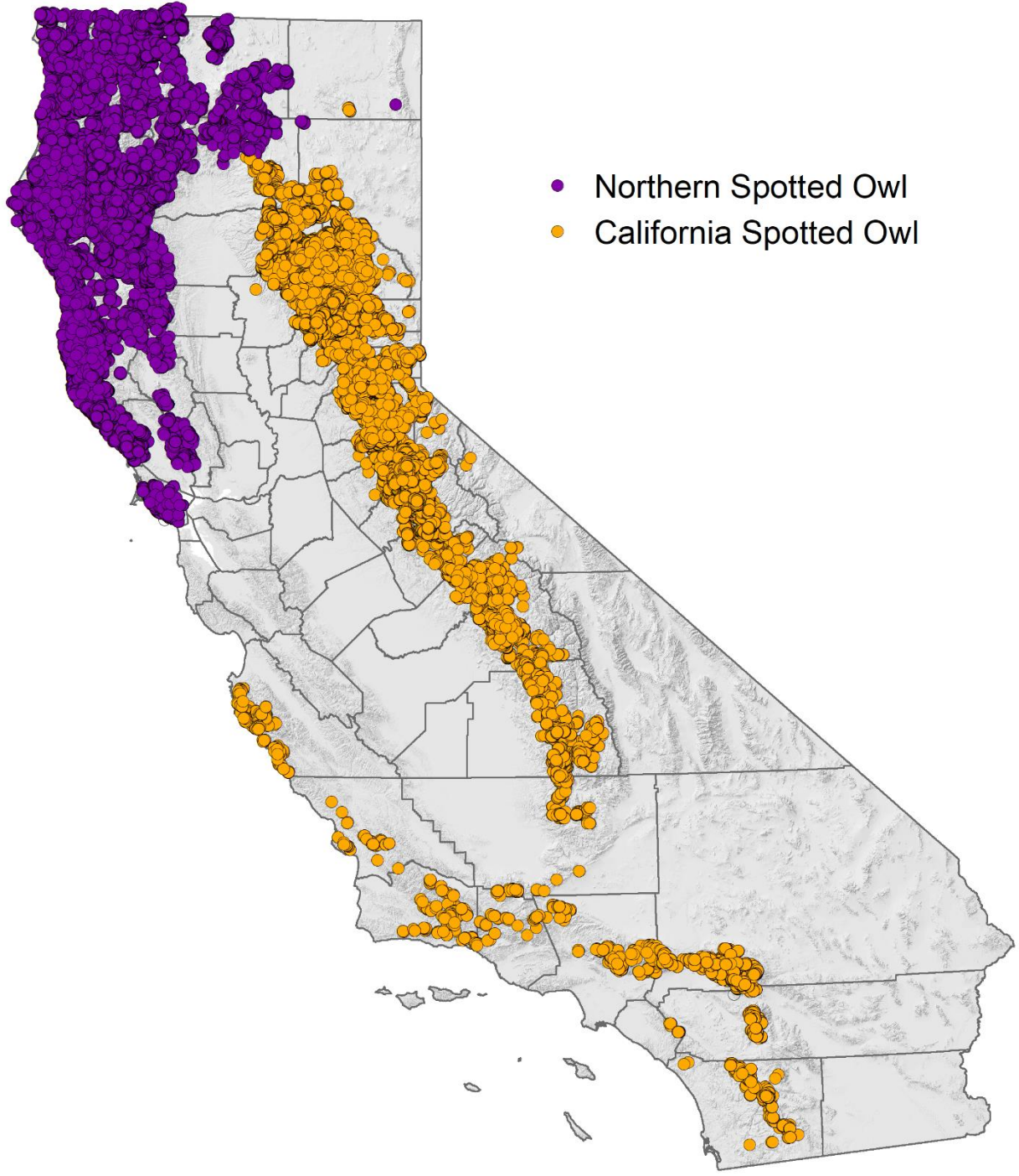
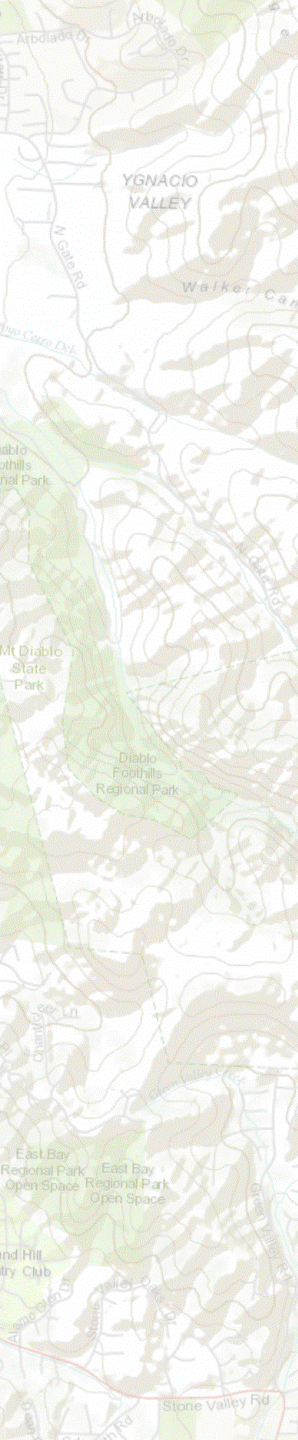
# The Spotted Owl Observations Database Overview and Updates

Kate Keiser  
Database Manager  
Spotted Owl | Barred Owl | Golden Eagle  
[owlobs@wildlife.ca.gov](mailto:owlobs@wildlife.ca.gov)

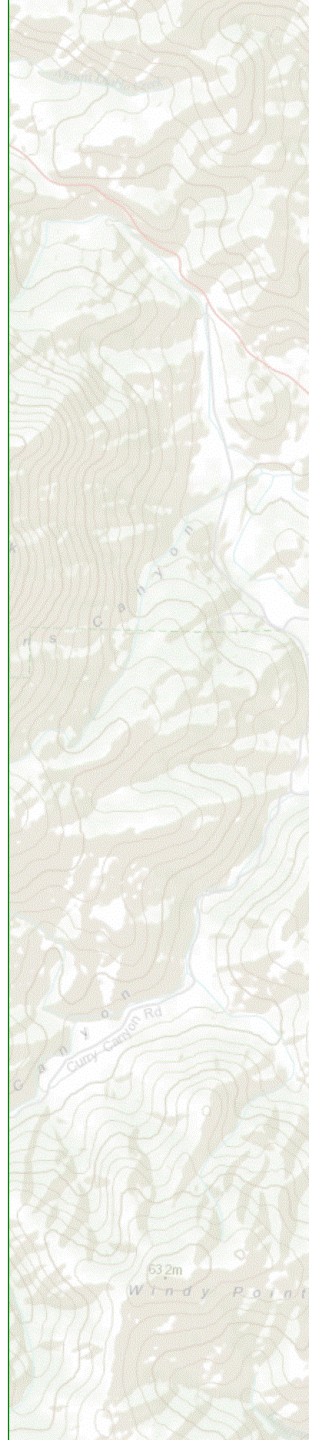


California Department of Fish and Wildlife  
Biogeographic Data Branch  
California Natural Diversity Database





- Northern Spotted Owl
- California Spotted Owl



# Overview: Limitations

- The absence of detection data does not necessarily mean owls are not or have not been present.
- The database should not be used to calculate population trends, abundance, density, etc.
- The database does not track occupancy.
- The database does not track barred owl influence.
- The database is a starting point.

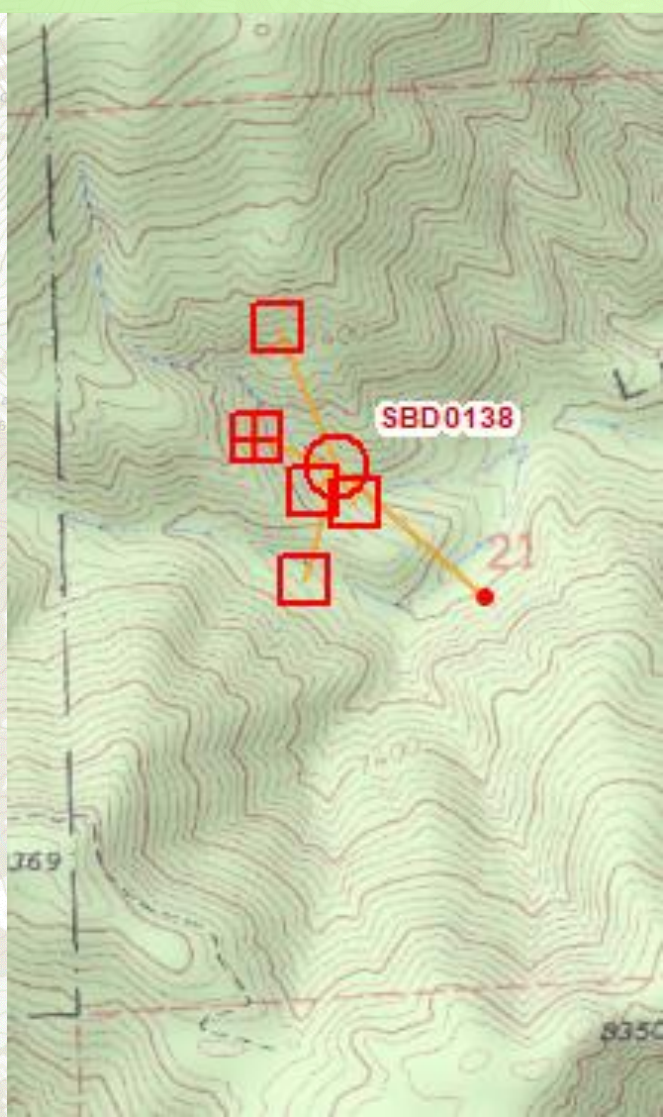
# Overview:

## Key Terms – Masterowl Number and Site

Masterowl Number  
Site name

Site

Area containing concentrated or stand-alone detections



# Overview:

## Key Terms: Activity Center

### Activity Center

“Activity centers are a location or point representing ‘the best of’ detections such as nest stands, stands used by roosting pairs or territorial singles, or concentrated nighttime detections.” (USFWS 2012)

- 1) Nest
- 2) Nest Stand
- 3) Daytime Pair
- 4) Daytime Resident Single
- 5) Nighttime Pair
- 6) Multiple Nighttime Single

# Overview:

## Key Terms – Database AC and Protocol AC

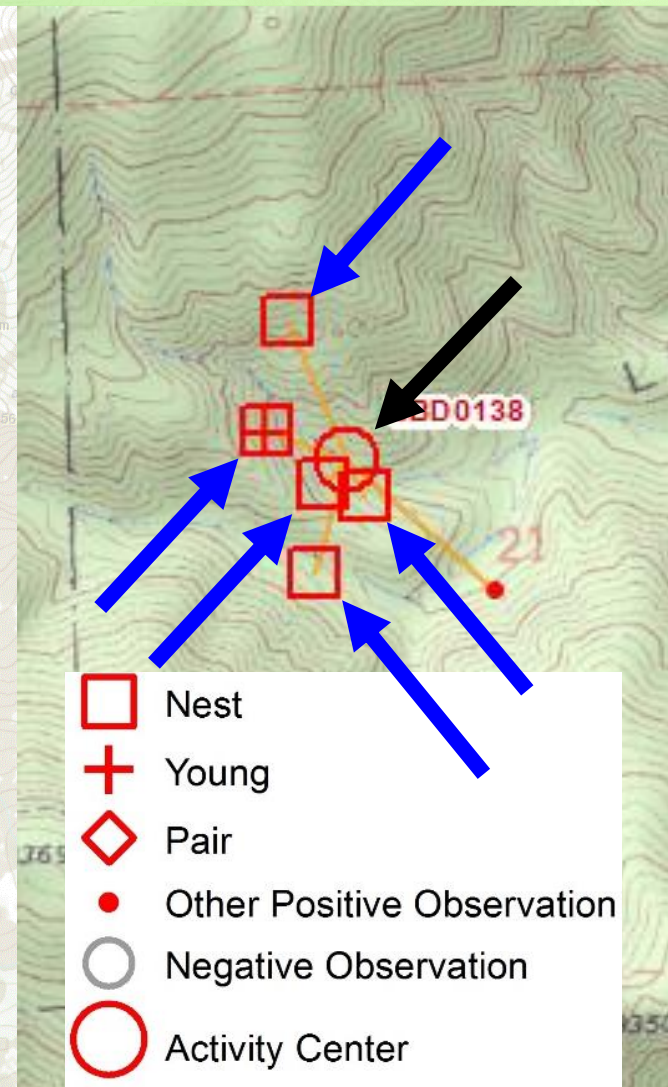
### Multiple ACs

### Database AC

Single AC identified in database

### Protocol AC

Observation meeting the protocol definition of AC



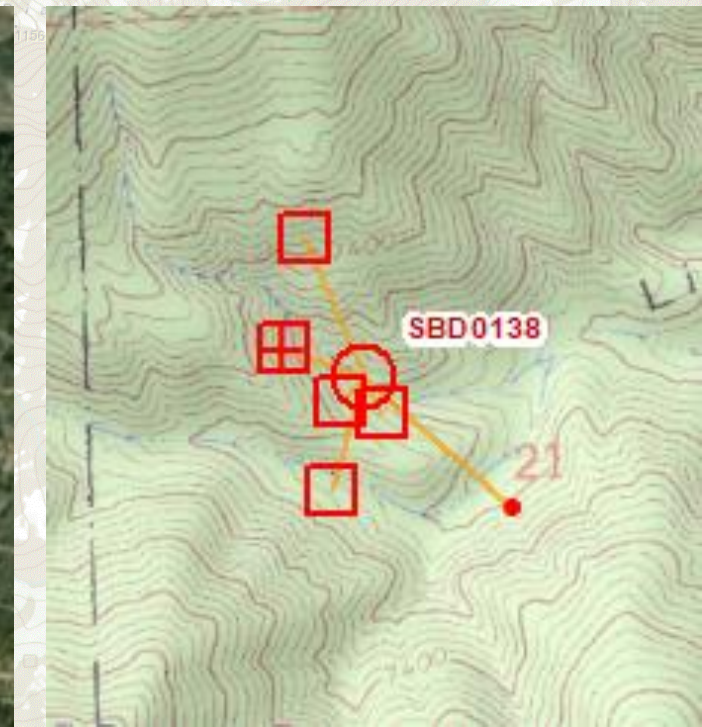
# Overview: Key Terms - Invalid

Invalid  
AC does not meet protocol definition



# Overview: Key Terms - Abandoned

Abandoned  
Site no longer supports territorial owls





# Overview:

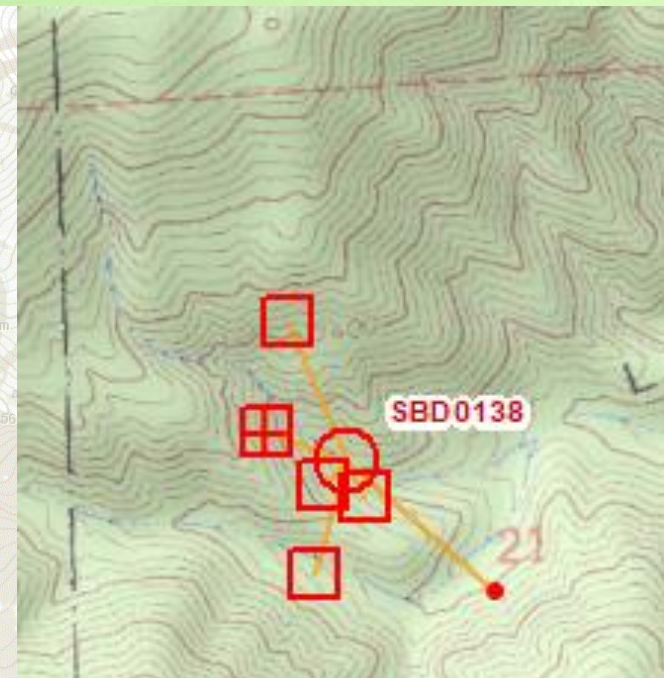
## Key Terms – Attribute Table and Metadata

Attribute Table

Text Data

Metadata

Information about the dataset



MASTEROWL	TYPEOBS	DATEOBS	AGESEX	PAIR	NEST	NUMYOUNG	COORDSRC	HIGHESTUSE	SYMBOLGY
SBD0138	POS	1992	UM				Contributor	POS	POS
SBD0138	POS	1993	UMUF	Y		1	Contributor	YOUNG	YOUNG
SBD0138	POS	1994	UMUF	Y	Y	1	Contributor	NEST	NEST
SBD0138	POS	1995	UMUF	Y	Y	2	Quarter-section centroid	NEST	NEST
SBD0138	POS	1997	UMUF	Y	Y		Contributor	NEST	NEST
SBD0138	POS	1998	UMUF	Y	Y	1	Contributor	NEST	NEST
SBD0138	POS	2009	UMUF	Y	Y	1	Contributor	NEST	NEST
SBD0138	AC	2010	UMUF	Y	Y	1	Contributor	NEST	AC

# Overview:

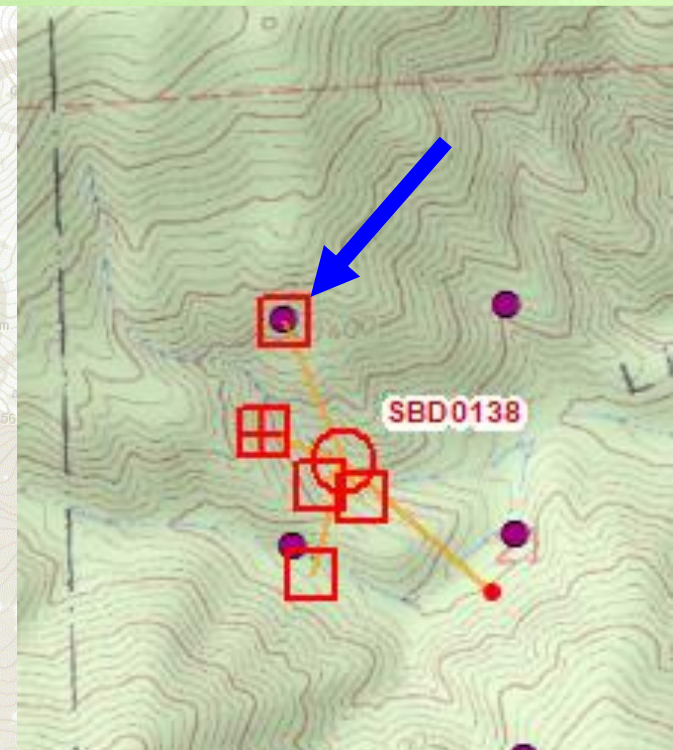
## Key Terms – Coordinate Source

Coordinate Source

Accuracy of point

Contributor

Quarter-section centroid



MASTEROWL	TYPEOBS	DATEOBS	AGESEX	PAIR	NEST	COORDSRC	HIGHESTUSE	SYMBOLGY
SBD0138	POS	1995	UMUF	Y	Y	Quarter-section centroid	NEST	NEST
SBD0138	AC	2010	UMUF	Y	Y	Contributor	NEST	AC

# Overview: Contributing Data

Please Contribute

## • Necessary Data

- What
- When
- Where

## • Ways to Contribute

1. Data entry template
2. Contributor format
3. Online CNDDDB  
Field Survey Form
4. Plan Number

Online Field Survey Form	PDF Field Survey Form	Digital Data	Other
<p>Online Field Survey Form</p> <p><a href="#">CNDDDB Online Field Survey Form</a></p> <p>This Internet application allows users to fill out and submit a field survey form online. It contains a mapping tool to help pinpoint the survey location, and allows users to generate PDF reports of their data submissions. All previous online submissions are saved with your account so that you can view your previous online submissions and be confident that your form was submitted to the CNDDDB.</p> <ul style="list-style-type: none"><li>• <b>First time users will need to set up an account. The <code>cnddb_com</code> and <code>cnddb_gov</code> accounts <i>cannot</i> be used with this application.</b></li><li>• <a href="#">CNDDDB Online Field Survey Form Frequently Asked Questions (PDF)</a></li><li>• <a href="#">CNDDDB Online Field Survey Form User Guide (PDF)</a></li></ul>			



<https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>

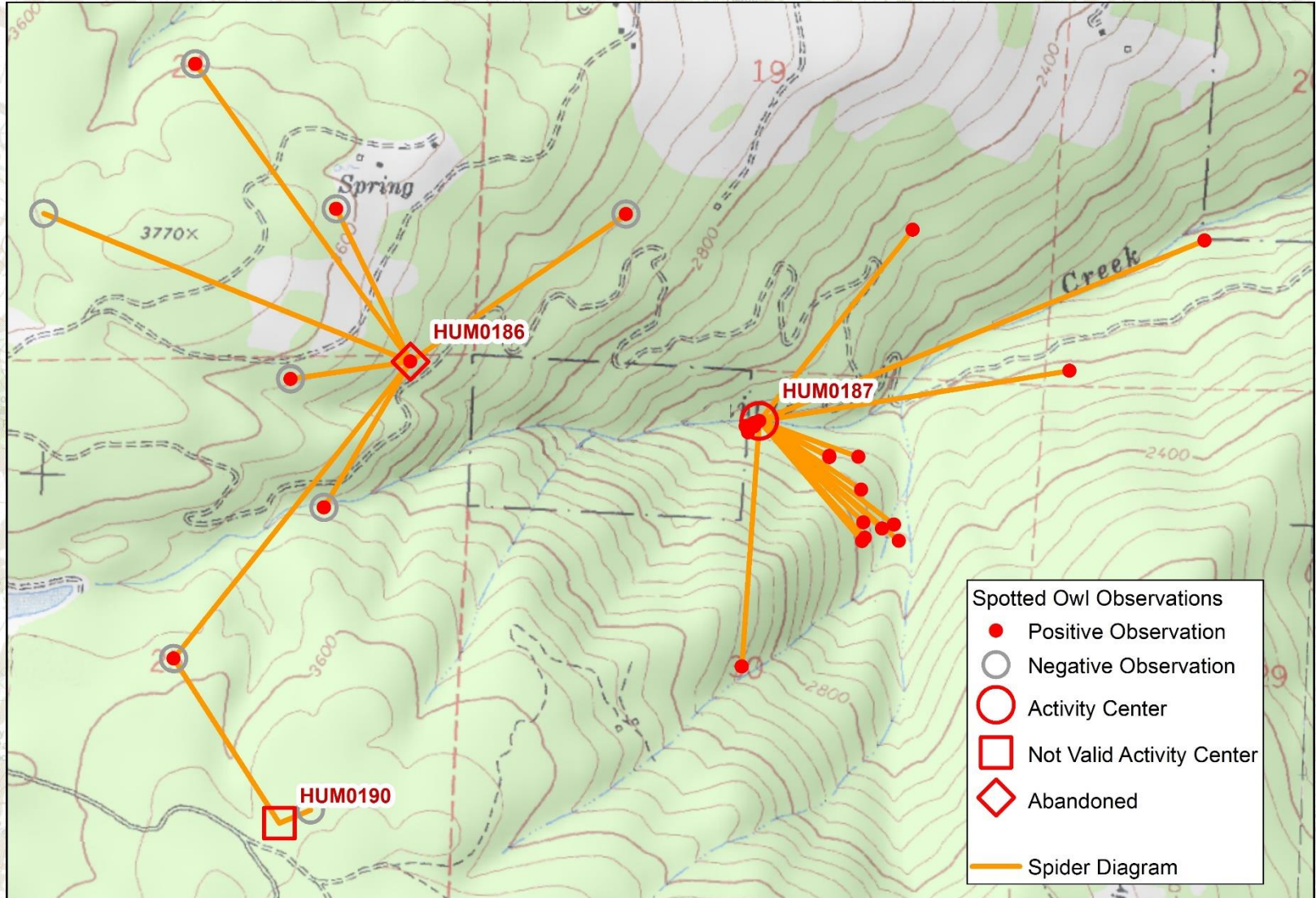
# Updates: SPOWDB Management Framework

## Spotted Owl Observations Database Management Framework

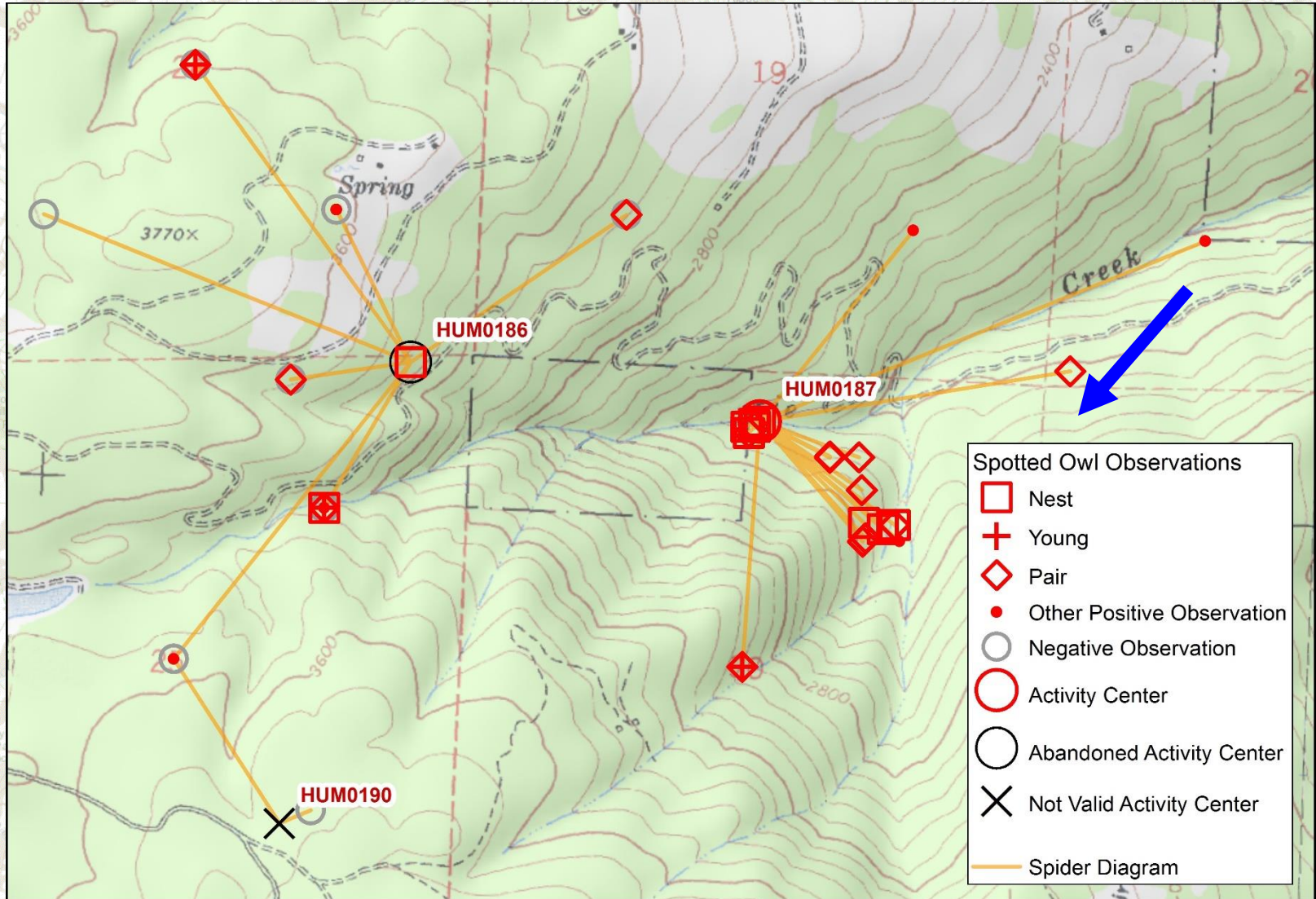


California Department of Fish and Wildlife  
Biogeographic Data Branch  
California Natural Diversity Database Program

# Updates: Symbology Change - Old



# Updates: Symbology Change - New



# Updates: Barred Owl Observations Database




## Quarterly Update

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE **BIOS**

Basemaps Layers


Active Layer: Barred Owl Observations [ds8]



Remove All BIOS Layers



+  Barred Owl Observations [ds8]   



Reference Layers



Remove All Highlights



▼ Geolocation References 



+  Cities  



-  Counties  



+  Ecoregion Sections  



+  WBD HUC8 Watersheds  


+  24K Quads  

+  24K Quads (New)  

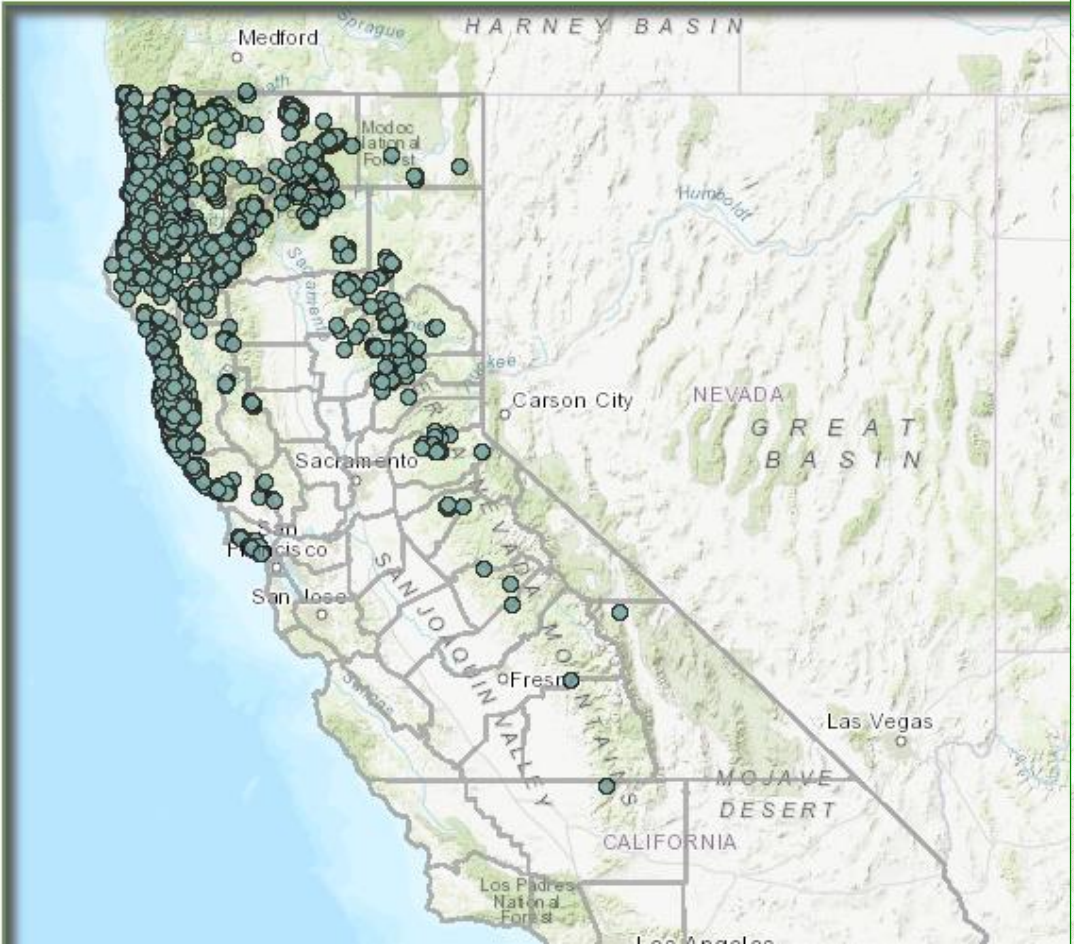
+  Zip Codes  

+  PLSS Sections  

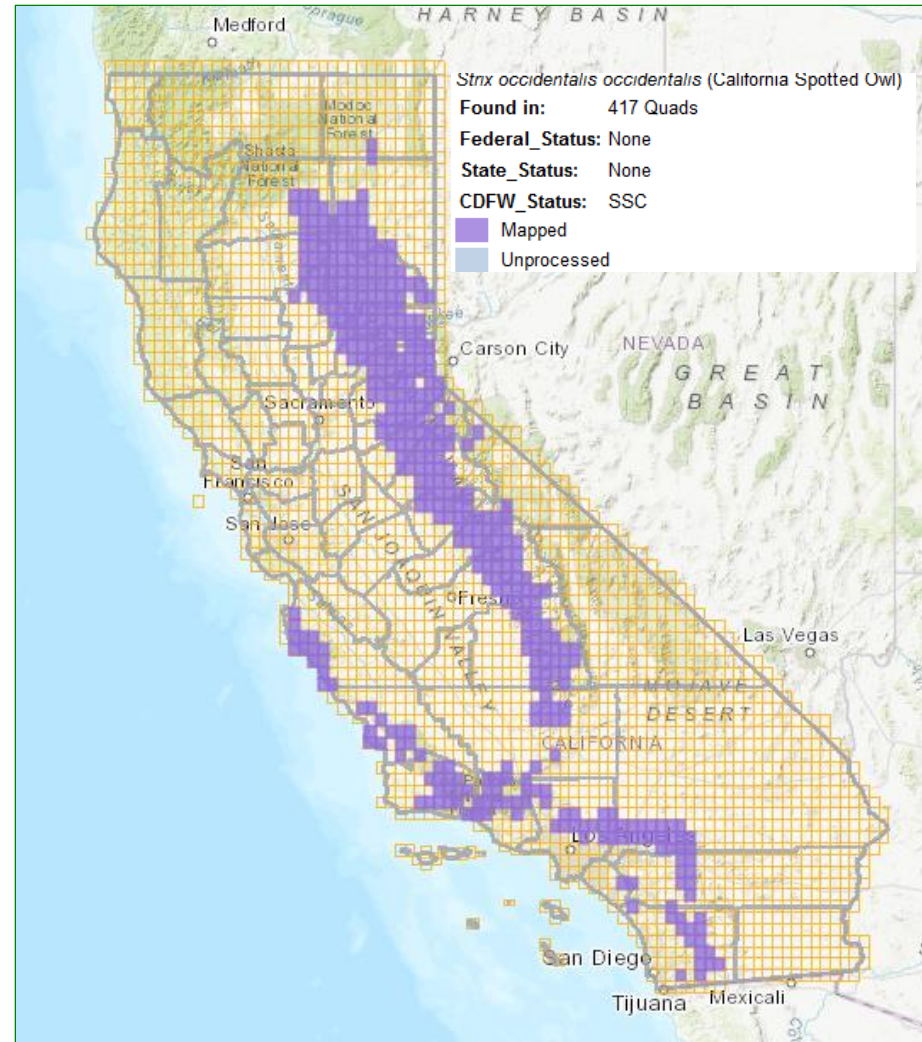
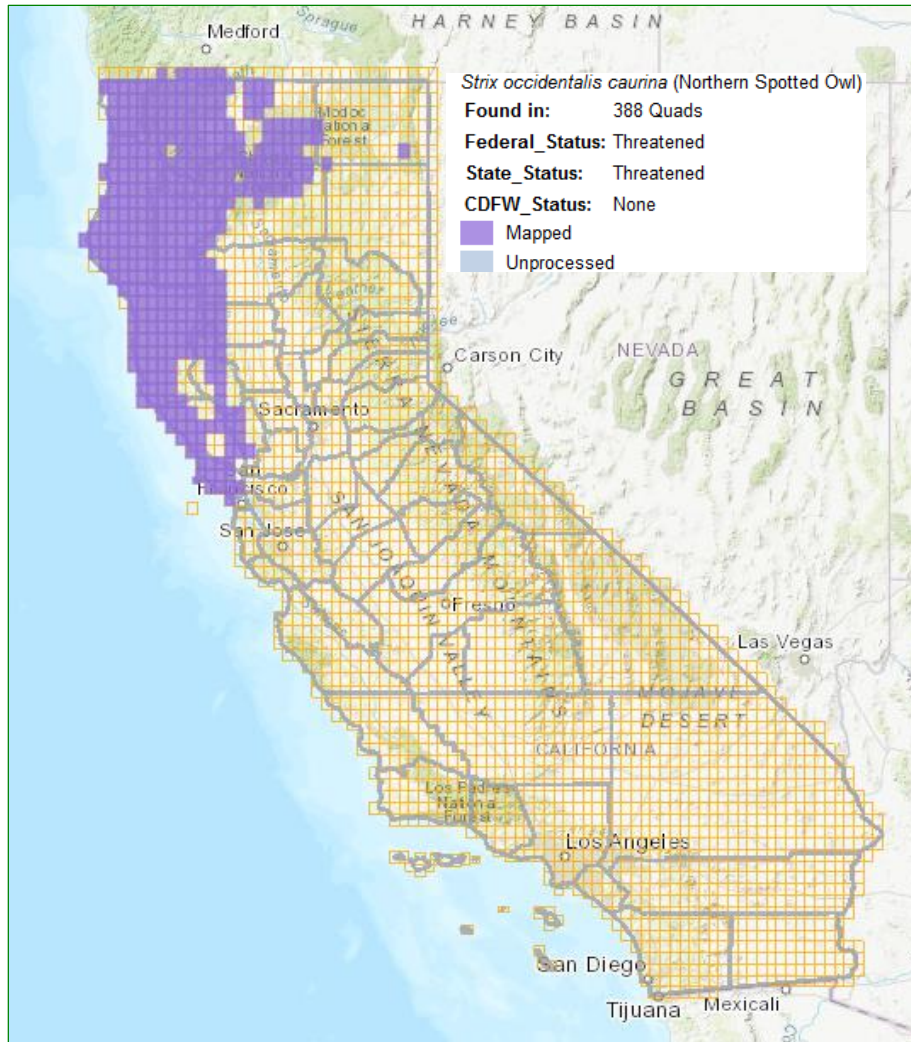
+  CDFW Regions  

Add Data: BIOS ▼ barred owl 

Identify Features ▼ Advanced Tools ▼



# Updates: Spotted Owl and the QuickView Tool





# CNDDDB Subscription

## A subscription to the CNDDDB includes:

- Access to RareFind 5, an Internet application that allows for querying of statewide data on rare species and natural community locations.
- Access to the [CNDDDB and Spotted Owl Data Viewer](#), an online map viewer.
- Access to CNDDDB GIS data for use in ArcGIS or other GIS applications, with [monthly updates](#).
- Access to the [Spotted Owl Observations Database](#) for use in ArcGIS, with [periodic updates](#).

**All uses of data from the CNDDDB are subject to the terms and conditions contained in our [License Agreement \(PDF\)](#).**

**Please refer to our [Data Use Guidelines \(PDF\)](#) document for information on using the CNDDDB data.**

## CNDDDB Annual Subscription

- Initial rate is \$600 for 1 year, with annual renewals at \$400/year.
- Should the subscription lapse three months or more, the initial rate of \$600 will be charged.
- [Subscription Order Form \(PDF Form\)](#), or call Information Services at (916) 322-2493.

## CNDDDB Map Overlays and Text Reports

Each report includes a PDF map of CNDDDB data for a 1:24,000 scale USGS base map with associated text report. Prices may vary depending on individual quad.

Product	Price
Text Report + PDF Map/Quad (non-subscribers)	\$ 25.00

<https://www.wildlife.ca.gov/Data/CNDDDB/Subscribe>

# Updates: Upcoming Trainings

December 10  
December 11

**CDFW Fort Bragg Field Office**

**CDFW: LEARN**

**Non-CDFW: email**

**[Kate.Keiser@wildlife.ca.gov](mailto:Kate.Keiser@wildlife.ca.gov)**

# Updates: Additional Training Information

[https://www.wildlife.ca.gov/  
Data/Training](https://www.wildlife.ca.gov/Data/Training)

[Home](#) | [Data](#) | [Training](#)

## CNDDB, RareFind and BIOS Tutorials and Training

### Introduction Videos and Tutorials

The following training videos and documents provide the basic information needed to get started using the CNDDB, RareFind 5, and BIOS 5:

#### CNDDB / RareFind 5

- [@CNDDB Introduction \(video - 37 min\)](#): An introduction to the California Natural Diversity Database that is essential information for anyone who uses this database. It details what the CNDDB includes, how occurrences are mapped, the ranking systems, the appropriate use of the data, and an introduction to the tools and products that are available.
- [@RareFind 5 User Guide \(PDF\)](#): A complete overview of every tool.
- [@RareFind 5 Demo \(video - 24 min\)](#): A demonstration of how to query the CNDDB through the RareFind 5 web application.

#### BIOS 5

- [@Getting Started in BIOS 5 \(PDF\)](#): Just the basics to get you going.
- [@BIOS 5 User Guide \(PDF\)](#): A complete overview of every tool.
- [@BIOS 5 Demo \(video - 18 min\)](#): An introduction to the BIOS 5 web mapping application, and a demonstration of how to operate its basic functions.
- [@Using CNDDB in BIOS 5 \(PDF\)](#): A demonstration of using the CNDDB dataset in BIOS 5.
- [@Using the Spotted Owl Report Generator in BIOS 5 \(PDF\)](#): A demonstration of using the Spotted Owl dataset in BIOS 5 to generate reports.
- [@CNDDB QuickView Tool User Guide \(PDF\)](#): A user guide for using the CNDDB QuickView tool in BIOS 5.

### Live Training Course

The CNDDB/RareFind/BIOS class is a six-hour course describing the background, purpose, and use of both the CNDDB dataset and the BIOS web-based map viewing tool (which includes access to the CNDDB). The class includes instruction and exercises on using many of the tools in both the online RareFind 5 and in BIOS 5, as well as viewing and querying the CNDDB dataset in BIOS.

#### Who should attend:

Wildlife and fisheries biologists, botanists, GIS analysts, and others involved with collecting and analyzing biological data and information. Applications include conservation planning, developing study designs, and developing baseline environmental review information. This class is open to people outside of the Department of Fish and Wildlife as well as to CDFW staff. The fee is waived for CDFW staff.

#### Course Outline:

- CNDDB background, definitions, and proper use
- Online RareFind 5 query tools and reports
- RareFind 5 exercises
- BIOS 5 background, toolset and usage
- BIOS/CNDDB exercises

# Updates: CNDDDB News

## CNDDDB News

### Barred Owl Observations Database: Quarterly Update

October 16, 2019

The quarterly update of the Barred Owl Observations Database is available in the BIOS Viewer for CNDDDB subscribers. The barred owl database includes barred owl (*Strix varia*), *Strix* hybrid, and unknown *Strix* detections.

Many of the records represent incidental detections made during spotted owl surveys; therefore, this dataset may not accurately represent the current distribution of barred owls in California. Furthermore, this dataset is only available to CNDDDB subscribers because it contains references to sensitive spotted owl locations. A public version will be available in the future.

For a copy of the geodatabase or for site-specific inquiries, contact the database manager at [owlobs@wildlife.ca.gov](mailto:owlobs@wildlife.ca.gov).

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE BIOS

Add Data: BIOS Click here to search and see list of datasets

Basemaps Layers Identify Features Advanced Tools

Active Layer: Barred Owl Observations [ds8]

BIOS Layers

- + [x] Barred Owl Observations [ds8] Go

Reference Layers

- Remove All Highlights
- ▶ Geolocation References
- ▶ Hydrography
- ▶ Natural Resources
- ▶ Land Ownership
- ▶ Political Boundaries



Sign up to receive CNDDDB News updates by email.

Email

Subscribe

#### MOST RECENT

Barred Owl Observations Database: Quarterly Update  
October 10, 2019

Photos of the Month: September  
October 10, 2019

Monthly Updates for September 2019  
October 7, 2019

<https://www.wildlife.ca.gov/Data/CNDDDB/News>

# The Spotted Owl Observations Database Overview and Updates

## Thank You



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