

Tutorial for generating Spotted Owl reports in the BIOS 5 "CNDDB & Spotted Owl Data Viewer"



California Department of Fish and Wildlife California Natural Diversity Database January 2020

The <u>CNDDB & Spotted Owl Data Viewer</u> is a key way to access the Spotted Owl Observations Database and view the records spatially without the need to have GIS software installed on your computer. Additionally, the CNDDB & Spotted Owl Data Viewer is the only place where you can generate the reports for spotted owl activity centers and observations as described in the tutorial below. The spotted owl observations are also available as GIS shapefiles to CNDDB subscribers from the Monthly Data Updates section of the <u>CNDDB Maps and Data</u> webpage. You must be a CNDDB Subscriber to access the Spotted Owl Database and use the report generator. Subscription information can be found on the <u>CNDDB Subscription</u> webpage.

The BIOS 5 map and data viewer includes an updated interface complete with base maps and aerial imagery. Please see the <u>BIOS User Guide</u> and the <u>BIOS Frequently Asked Questions</u> documents for further details on the tools in BIOS. These help documents are also available by clicking the "Help" button in the upper right corner of the map viewer. For additional information regarding the Spotted Owl Database please refer to the CNDDB's <u>Spotted Owl Observations Database Information</u> webpage.

Spotted Owl Report Tool

This tool runs a custom query and generates reports based on selected Sections. Sections are 1 mile square subdivisions of a Township and Range of the Public Land Survey System (PLSS; often referred to as Meridian, Township, Range, Section [MTRS] or TRS). To run this custom query on the Spotted Owl Observations layer, Section features must first be selected from the PLSS Section layer.

Step 1: Select features (Sections) from the PLSS layer

 Open the <u>CNDDB & Spotted Owl Data Viewer</u> that corresponds to your subscription – Government or Commercial. You will need to turn the CNDDB layer off by unchecking the box next to the layer name.



- Navigate to area of interest: There are several ways to navigate around the Viewer. See the <u>BIOS User Guide</u> for more information.
 - Zoom in or out using the scroll wheel on your mouse; use the map scale dropdown menu at the upper right corner of the map; use the zoom slider bar on the right side of the map; or hold the Shift key down and use your mouse to draw a box around the area that you would like to zoom to.
 - Pan by clicking and dragging the cursor.
 - Specify your area of interest using the **GeoFind** tool under **Advanced Tools**. You can search for a variety of location types as listed under **Locate By:**

Locate By: Coordinates Address Township & Range Geographic Name USGS Quad City County CDFW Facilities CDFW Owned Lands WBD HUC8 Ecorocione	GeoFind			S
Loregions	Locate By: Coordinates Address Township & Range Geographic Name USGS Quad City County CDFW Facilities CDFW Owned Lands	Meridian: Township: Range: Section:	Mt. Diablo 47N • 08W •	. ▼ Find

• Go to your selected PLSS location by clicking Go in the **GeoFind Results** table. You may then need to zoom in further if necessary.



- Select Sections:
 - Under **Reference Layers** in the table of contents, expand **Geolocation References** by clicking the caret to the left of the name.



Click the PLSS Sections layer name to turn the layer on and make it the Active
 Layer (active when highlighted pink). The sections will now be visible on the map.



 Select the Sections from the map view that you are interested in by using the BIOS Select tool. Expand the Map Tools menu and click "Select..."



 Click on Rectangle (drag-a-box) from the pop-up window to the right to select the tool. Then click and drag across the PLSS Sections that you want to select. The selected Sections will be outlined in yellow and filled with red.

Tip: drag the rectangle within the boundary of the sections you want to query on. The rectangle will select all sections that it touches.

Select features from PLSS Sections By Method
Rectangle (drag a box)
Polygon
Point Buffer (click on map) • Buffer Radius: 10 Miles
To make a graphic selection, click on a Method above.
Clear Selection (Select None)
Operation
New Selection
Select from Set (within Selection)



Step 2: Run the Analysis

Under BIOS Layers and Spotted Owl
 Observations [ds704] click on the Additional
 Options "+" tool below the layer name. This
 will turn the layer on and enable you to access
 the Special Functions Window.
 Note: after you click on the plus sign your select
 will automatically get turned off. You do not
 need to re-select your area of interest.



• Click on the **Select By PLSS** button on the Special Functions pop-up window to the right.



If you select an area that contains no observations then you will get the following popup: "No activity center associated owl observations exist within the selected section." Click ok and you will be able to proceed with your report generation.

• After clicking on **Select By PLSS** an **Add Notes** text box and 2 additional buttons will appear in the **Special Functions** window. You can add any notes, comments, location descriptions in the text box and they will appear on the cover page of both reports. Or you can leave the notes field blank.

Step 3: View the Reports

• Click on the buttons under **Available Reports** on the **Special Functions** window to generate each report. Depending on your browser and its settings you will be prompted to open, save or show your download(s).

	Select By PLSS Reset	
	dd Notes:	
A	vailable Reports:	
	Spotted Owl Sites Found	

Report Descriptions

Each report has a cover page that lists data version and report production dates, the sections that were searched, and notes if any were entered in the **Special Functions** window. The data pulled from the spotted owl observations layer will be listed starting on page 2 of each report.

Spotted Owl Sites Found: Displays the Sections that were selected and the Masterowl number for each Activity Center associated with observations found in the selected area.

Data Version Date: 10/26/2016 Report Generation Date: 11/14/2016	Report #1 - Spotted Owl Sites Found Known Spotted Owl sites having observations within the search area.	CALIFORNIA FISHBure
1	Meridian, Township, Range, Section (MTRS) searched:	
	M_47N_08W Sections(27,34);	
NOTES:		
Report Generator Tutorial		

Observations Reported: Displays the Sections that were selected and detailed lists of all the observations made in the selected area. The observations are sorted by the Masterowl number.

Data Version Date: 10/26/2016 Report Generation Date: 11/14/2016	Report #2 - Observations Reported List of observations reported by site.	CALFORNIA
	Meridian, Township, Range, Section (MTRS) searched:	
	M_47N_08W Sections(27,34);	
NOTES:		
Report Generator Tutorial		

Note: Observations outside of the selected area that share a Masterowl number with observations within the selected area are also included in the Observations report.

Metadata

To find additional information on the Spotted Owl Observations layer, such as background information for the layer and explanations of each field, click on the **Metadata** button next to the layer name in the BIOS viewer table of contents. A summary window will appear on the right.



Scroll to the bottom of the abstract and click **Complete metadata.** A pop-up containing the metadata will appear.

			Spotted Owl Observations [ds704] \in X +	- 0	
			$\leftarrow \rightarrow$ C \bigtriangleup 10 \triangleq https://map.dfg.ca.gov/metadata/	⊻ II\ 🗉 🤅	
			🌣 Most Visited 🛛 🥮 Getting Started		
	v5.83.12 Fx H	elp	Spotted Owl Observations [ds704] SDE Feature Class		^
		8	Open this dataset in BIOS		
Spotted Owl Observations [ds704]		^	Tags north coast forest, Sierra Nevada foothills, Klamath Mountains, trend, Modoc Plateau, inventory, coastal mountains, sample, northern California coast, activity centers, bird, northern California coast ranges, environment, biota, reproduction, management, distribution, monitoring, mid-elevation forest, Strix occidentalis caurina, owl, southern California coast ranges, northern spotted owl, coastal forests, special species status, abundance, observations, regulatory, Strix occidentalis occidentalis, southern Cascades, California, Siera Nevada, California spotted owl, east- side forest, high-elevation forest, planning		
The dataset was designed to track spotted owl detections, surveys, and site histories in California. It was designed to be used for project review where site specific information and history could be evaluated to determine potential project impacts and mitigation. Also, the dataset tracks the known owl distribution and site occupancy. It is used			Summary The dataset was designed to track spotted owl detections, surveys, and site histories in Californi to be used for project review where site specific information and history could be evaluated to de project impacts and mitigation. Also, the dataset tracks the known owl distribution and site occup legitimately by agencies, biologists, regulators, consultants, and land owners and managers for pr and mitigation, for species and land management planning, and for research.	termine potential bancy. It is used	
legitimately by agencies, biologists, regulators, consultants, and land owners and managers for project evaluation and mitigation, for species and land management planning, and for research. Last updated In BIOS On: 11/01/2019			Description This dataset is a new and improved version of the original Spotted Owl Territories [ds97] dataset. dataset represented spotted owl territories as activity center observation points with thousands observations available in a separate table but not spatially enabled. In this new dataset, the addi observations (both positive and negative sightings) have been spatially enabled as points and are along with the activity center points. See the attribute "TYPEOBS" for a determination of whether positive (POS), negative (NEG) or an activity center (AC). Many of the observation locations were plotting them to a grid of the Public Land Survey System (PLSS) based on PLSS references in the descriptions.	of additional owl tional owl now displayed r an observation is e approximated by	
(Contact Information		This dataset combines information on the location and status of Northern Spotted Owls, California the Sierra Neurada, and California Spotted Owls in southern California. Almost all records have been		
Name:	Kate Keiser		the Sierra Nevada, and California Spotted Owls in southern California. Almost all records have been gathered since the early 1970s. Some observations from early 20th century literature also are included. The vast majority of data were collected in the field by biologists and technicians mainly working for US Forest Service, Bureau of Land		
Organization:	California Department of Fish and Wildlife (CDFW)		Management, California Department of Fish and Wildlife, consultants, National Park Service, indust companies, universities conducting surveys and doing research, and the local birding community. I were obtained using standard survey protocols ("Protocol for surveying proposed management ac	trial timber Most observations	
Division:	Data and Technology Division - Biogeographic Data Branch		impact northern spotted owls." US Fish and Wildlife Service. 2011). The protocols are available at www.wildlife.ca.gov/Conservation/Survey-Protocols		
Phone:	(916) 445-5006		What is an activity center? "Activity Center: Spotted owls have been characterized as central-pl. where individuals forage over a wide area and subsequently return to a nest or roost location tha		
Email:	owlobs@wildlife.ca.gov	*	located within the home range (Rosenberg and McKelvey 1990). Activity centers are location or p core use area that represent this central location. Nest sites are typically used to identify activity cases where nests have not been identified, breeding season roost sites or areas of concentrated detections may be used to identify activity centers." U.S. Fish and Wildlife Service. 2011. Revised the Northern Spotted Owl (Strix occidentalis caurina). U.S. Fish and Wildlife Service, Portland, Or A copy of the Revised Recovery Plan and other related materials can be found at: https://www.l onfwo/Species/Data/NorthernSpottedOwl/main.asp. The database only maps one activity center p multiple activity centers may exist on the landscape.	oint within the y centers, or in d nighttime d Recovery Plan for egon. xvi + 258 pp. fws.gov/ore g	
			An additional dataset (Spotted Owl Observations Spider Diagram [ds705]) is available that shows relationships between activity centers and observations in this dataset. The spider diagram datase accompany this observations dataset to assist with site visualizations and dataset review efforts	et is meant to	

OTHER THINGS TO KNOW:

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