

# Sharing Science USGS ScienceBase Data Integration and Management Project

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March 2016



# What Exactly is ScienceBase?

- Open Source Software
- Metadata Catalog
- Data Repository
- Collaborative data management and integration platform
- Supports public and secure data discovery and distribution
- Web services to drive other applications
- New features and transforms every 2 weeks

**Sponsored by:** USGS Core Science Analytics, Syntheses and Libraries with support from USGS Climate and Land Use, USGS Ecosystems, and the LCC Network

# ScienceBase by the Numbers

**Currently 30+M “page views” per month**

--Vast majority of requests are for web services

--Peak usage 4M “views”/day

**1-2Tb data transfer/month via https**

**3-5Tb data transfer/month via other protocols**

**Expect significant increase in both traffic and incoming data over next year**

**More demands on uptime and performance**



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Search

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Browse by **Tag**

- [Animal Behaviour](#)
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- [Hazard Mitigation](#)
- [Hydrology](#)
- [All tags...](#)

Browse by **Location**



### USGS Data Release

[Click here to see USGS Data Releases in ScienceBase.](#)

USGS scientists and data producers: [click here](#) for more information on using ScienceBase to complete a Data Release as part of the new USGS Instructional Memoranda (IM) requirements.

### Featured Item



#### [Color Hawaii Shaded Relief – 200-Meter Resolution, Albers projection](#)

The color Hawaii shaded relief data were derived from National Elevation Dataset (NED) data, and show the terrain of Hawaii at a resolution of 200 meters. The NED is a raster product assembled by the U.S. Geological Survey, designed to provide national elevation data in a seamless form with a consistent datum, elevation unit, and projection. Data corrections made in the NED assembly process minimize artifacts, permit edge matching, and fill sliver areas of missing data. The National Atlas also includes a Lambert Azimuthal Equal Area projection shaded relief file; this file is the same data in an Albers projection.

Categories: [Web Site](#); Tags: [DEM](#), [Digital Elevation Model](#), [Hawaii](#), [NED](#), [Shaded Relief](#), [All tags...](#)

# ScienceBase – the Big Picture

Communities → Training Community → NCTC ScienceBase and Da... → Staffed Visitor Stations - US...

## Staffed Visitor Stations - USFWS, Pacific Southwest Region

Go to ▾ View ▾

### Dates

Publication Date : 2015-02-17  
Time Period : 2015-02-17

### Citation

U.S. Fish and Wildlife Service, 20150217, Staffed Visitor Stations - USFWS, Pacific Southwest Region: U.S. Fish and Wildlife Service: Sacramento, CA, <https://www.sciencebase.gov/catalog/item/editForm/new?parentId=56993d34e4b0fd3f7fa7a13>

### Summary

This dataset depicts staffed visitor stations within the Pacific Southwest Region of the U.S. Fish and Wildlife Service. Staffed visitor stations may be refuge offices that are open to the public during specified hours, or may be dedicated visitor centers. This dataset does not include kiosks or other areas which contain information for visitors but are not staffed. The locations of these stations are based on the USFWS Corporate Master Table, with additional editing and updates based on the input of field and visitor services staff.

### Child Items (0)

### Contacts

Point of Contact : Justin Epting  
Distributor : Justin Epting  
Metadata Contact : U.S. Fish and Wildlife Service, Division of Refuge Planning  
Originator : U.S. Fish and Wildlife Service  
Publisher : U.S. Fish and Wildlife Service

### Attached Files

Click on title to download individual files attached to this item or [download all files](#) listed below as a compressed file.

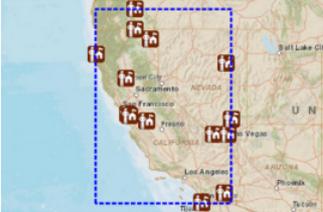
<a href="#">StaffedVisitorServices_R8_WM.shp.xml</a> <i>Original Metadata</i>	 View	16 KB
Extension: <a href="#">StaffedVisitorStations.zip</a>		
<a href="#">StaffedVisitorStations.sd</a> <i>Original Metadata</i>		846 KB
<a href="#">thumbnail.png</a>		2 KB
Shapefile: <a href="#">Zip File</a>		
<a href="#">StaffedVisitorServices.zip</a>		8 KB

### Related External Resources

Type: Online Link

Web Link	<a href="http://databasin.org/datasets/8c4e310ee51d4116b41d8de277629577">http://databasin.org/datasets/8c4e310ee51d4116b41d8de277629577</a>
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### Map »



### Spatial Services

ArcGIS REST Service : <https://www.sciencebase.gov/arcgi> 

ArcGIS WMS Service : <https://www.sciencebase.gov/arcgi> 

### Communities

- Training Community

### Tags

Categories : Data  
Place : California, Nevada, Oregon  
Other : National Wildlife Refuge, USFWS, visitor center  
Types : ArcGIS REST Map Service, ArcGIS Service Definition, Citation, Downloadable, Map Service, OGC WFS Layer, OGC WMS Layer, Shapefile

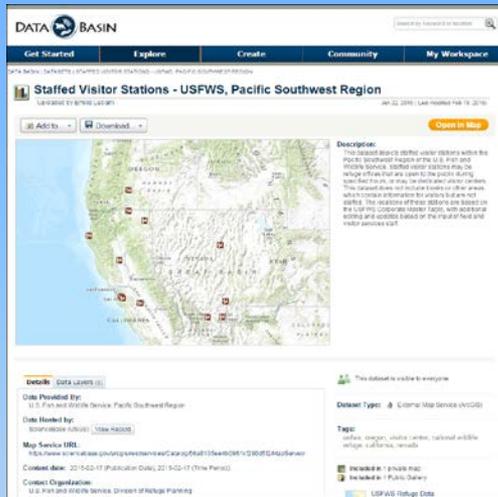
### Provenance

Data source : Input directly  
U.S. Fish and Wildlife Service, Pacific Southwest Region

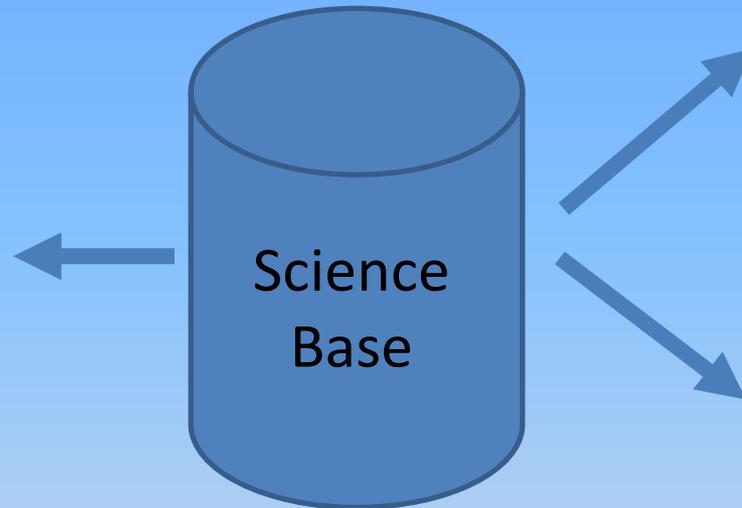


An item can be interacted with in various ways.

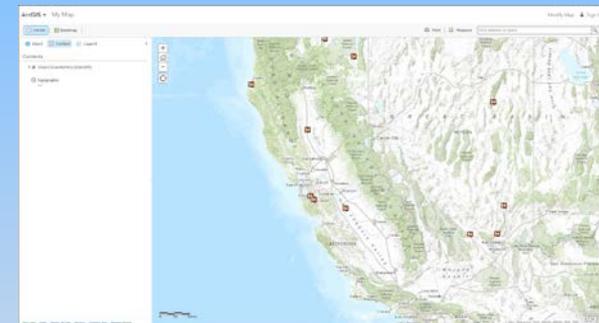
# ScienceBase – the Big Picture



Data Basin



The National Map



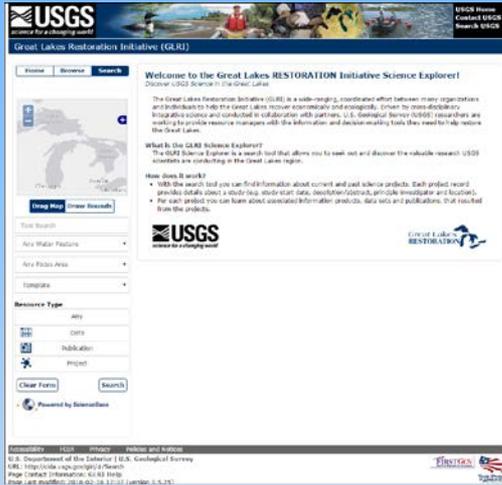
ArcGIS Online

*Steward data in Sciencebase*

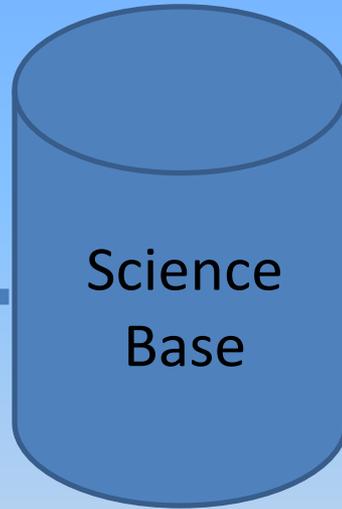
- Create web map services
- Manage security
- Manage data & metadata

An item can be interacted with in various ways.

# ScienceBase – the Big Picture



<http://cida.usgs.gov/glri/#/Search>



<http://www.usbr.gov/dlcc/science/projects.html>



<http://library.usgs.gov/photo/#/>

An item can be interacted with in various ways.

# Who Uses ScienceBase?

- USGS scientists
- Multi-organizational conservation projects working in partnership with USGS Science Centers, including Landscape Conservation Cooperatives (LCC) and their partners
- Science efforts collaborating with USGS staff (eg., Bat Conservation International, Home on the Range Prairie Dog studies, American Fisheries Society, National Science Foundation Digital Crust Program, BLM Wild Horses and Burro Program, FWS & State Partners Sage Grouse Conservation Efforts Database...)

# Questions and Comments?

Lei Ann Wilson

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sciencebase@usgs.gov

Cherokee Nation Technologies (CNT)

Contractor to DOI - USGS Fort Collins Science Center

ScienceBase Catalog Home... x +

https://www.sciencebase.gov/catalog/

USGS science for a changing world

ScienceBase-Catalog Communities Add Item My Items More Help pat\_lineback@fws.gov

My Items →

- California Condor
- MyMapService
- Pacific Southwest Region, Region 8
- Sage Grouse Conservation Status 2015
- U.S. Fish and Wildlife Service

Communities →

- 2010 Colorado Wildfires: Fourmile Canyon and Re...
- Amphibian Research and Monitoring Initiative
- Aquatic Experimental Laboratory Digital Macroinve...
- Biodiversity Information Serving Our Nation (BISON)
- Bureau of Ocean Energy Management - Environm...
- California Seafloor Mapping Program
- Coastal and Marine Spatial Planning
- Columbia Environmental Research Center (CERC)
- Community for Data Integration (CDI)
- Data Basin
- Data Preservation, Informatics, and Laboratories
- DataOne
- Digital Crust
- Earth Science Information Partners
- Eastern Geographic Science Center
- Eastern Montana Fisheries
- Energy and the Environment in the Rocky Mounta...
- Energy Development and Natural Resources in the...
- Fisheries
- FLMA Collaborative Visitor Transportation Survey
- Forest and Rangeland Ecosystem Science Center
- Fort Collins Science Center
- Geo Data Portal Catalog
- Global
- Grand Canyon Monitoring and Research Center
- Great Lakes Restoration Initiative
- Great Lakes Science Center (GLSC)
- Greater Platte River Basin
- Hydrologic Instrumentation Facility
- Inland Harmful Algal Blooms

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- Biogeochemistry
- Ecosystems
- Hazard Mitigation
- Hydrology
- All tags...

Browse by **Location**



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**Featured Item**



**U.S. Geological Survey Earthquake Hazards Program (EHP) website**

Provides and applies relevant earthquake science information and knowledge for reducing deaths, injuries, and property damage from earthquakes through understanding of their characteristics and effects and by providing the information and knowledge needed to mitigate these losses.

Categories: Web Site; Tags: disturbance, earth, earthquake hazards, earthquake occurrences, earthquakes, All tags...

**Browse Folders** 

## Pacific Southwest Region, Region 8 [Folder View]

This community of practice is used by the Pacific Southwest Region of US Fish and Wildlife Service to manage and share data, projects, and services.

Search

	Title	Summary	Date Modified
	BaseData_CA		2015-02-17T21:32:30.725Z
	BaseData_MultiState		2015-05-01T14:04:18.907Z
	BaseData_NV		2015-07-13T18:34:04.291Z
	basin_KlamathBasin		2015-02-02T18:18:05.603Z
	office_CarlsbadFWO		2015-10-23T17:49:09.461Z
	office_RenoFWO	Datasets managed by the Reno FWO	2016-02-10T19:22:28.977Z
	office_SacramentoFWO		2015-05-13T19:58:46.476Z
	refugeComplex_HopperMountain		2015-12-07T17:40:22.149Z
	refugeComplex_Kern	This folder contains data for Kern NWR, Pixley NWR and the Tulare Basin WMA.	2016-01-12T18:30:24.497Z
	refugeComplex_KlamathBasin		2015-12-29T18:07:37.506Z
	RefugeComplex_Modoc	Datasets specific to Modoc NWR	2016-01-12T17:06:23.695Z
	RefugeComplex_RubyLake	Datasets specific to Ruby Lake NWR	2016-01-12T17:06:53.410Z
	refugeComplex_Sacramento		2015-03-13T20:07:57.337Z
	refugeComplex_SanDiego		2015-06-09T23:54:50.469Z
	refugeComplex_SanLuis	Datasets specific to the San Luis NWR complex, including San Luis NWR, Merced NWR and Grasslands WMA.	2016-01-08T19:23:08.953Z
	refugeComplex_SFBay		2015-12-17T00:08:54.593Z
	regionFWS_R8		2015-12-28T19:21:49.686Z
	SENSITIVE_DATA		2016-01-13T23:46:49.734Z
	tools		2015-01-06T23:21:45.428Z

# SENSITIVE DATA - Foraging Locations of the California Condor

Go to ▾ View ▾ Manage ▾

## Dates

Acquisition : 2011-06-05

## Citation

USFWS, 2015, California Condor Occurrence Data - Foraging: .

## Summary

\*\*\* SENSITIVE DATA \*\*\* Foraging locations of the CA condor. Presence-only niche models require species' occurrence locations. Because condors use different habitats for nesting, roosting, and feeding, occurrence data were partitioned into these three activities. Activity-specific occurrence data spanning the time period from 1960–2011 were obtained from a variety of reliable sources. All occurrence data were filtered to remove duplicate records and occurrence locations with a positional precision of <1 km. For more information, please refer to the publication: D'Elia, J., Haig, S., Johnson, M., Marcot, B., and Young, R., 2015. Activity-specific ecological niche models for planning reintroductions of California condors (*Gymnogyps californianus*). *Biol. Conserv.* 184, 90-99.

## Contacts

Point of Contact : [Jesse D'Elia](#)  
 Metadata Contact : [Rich Young](#)

## Attached Files

Click on title to download individual files attached to this item or [download all files listed below as a compressed file](#).

<a href="#">forage_final_web.shp.xml</a> <i>Original Metadata</i>		2015-10-30 10:46	<a href="mailto:emilie_luciani@fws.gov">emilie_luciani@fws.gov</a>	11 KB	<a href="#">Process file contents</a>
--	--	------------------	--	-------	---------------------------------------

Extension: [ForagingLocationsCondor.zip](#)

<a href="#">ForagingLocationsCondor.sd</a> <i>Original Metadata</i>		2015-10-30 10:44		841 KB
<a href="#">thumbnail.png</a>		2015-10-30 10:44		4 KB

## Purpose

This dataset represents known occurrences for California condor foraging activities from 1960-2011. It was compiled to be used as training data for the condor foraging ecological niche model (D'Elia et al. 2015).

## Rights

SENSITIVE DATA - NOT SUITABLE FOR DISTRIBUTION. TO BE USED BY USFWS STAFF AND PARTNERS ONLY. No warranty expressed or implied is made regarding the accuracy or utility of the data and information on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data, and information, and aggregate use with other data and information. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data and information. The USFWS shall not be held liable for improper or incorrect use of the data and information described and/or contained herein.



## Map »



## Spatial Services

ArcGIS REST Service :

<https://www.sciencebase.gov/arcgi>

ArcGIS WMS Service :

<https://www.sciencebase.gov/arcgi>

**WARNING:** The ArcGIS REST service endpoints are publicly accessible even though this ScienceBase item is not publicly accessible.  
[Manage Service](#)

## Communities

- Pacific Southwest Region, Region 8
- U.S. Fish and Wildlife Service

## Associated Items

[Associate an Item](#)

## Tags

Categories : [Data](#)

Theme : [Activity-specific occurrence data](#), [California condor](#), [Ecological niche model](#), [MaxEnt](#), [Reintroduction](#)

Types : [ArcGIS REST Map Service](#), [ArcGIS Service Definition](#), [Citation](#), [Downloadable](#), [Map Service](#)  
 System Types : [Downloadable](#), [Mappable](#)

## Provenance

Data source : [Input directly](#)

USFWS