

## Connecting to REA Downloadable Data & Map Services through SharePoint

### BLM Personnel & REA Collaborator Access

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To access REA data and map services through the BLM network, follow the steps provided below. They will take you to a Department of Interior (DOI) SharePoint site from which you can:

- Download the **final report, task memos**, and other REA documents,
- Review lists of the major components of an REA such as the **management questions, conservation elements**, and **change agents** addressed in the assessment,
- Review a list of data used in and produced by an REA and **download data** packages,
- Review a list of **map services** which correspond to the maps in the final report.

*NOTE: Users must have a DOI Windows Active Directory login to access this site. Non-BLM collaborators of the REAs (e.g., state government personnel, other federal agencies) should contact their Assessment Management Team (AMT) lead to request access to this site.*

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### Login into the DOI REA SharePoint Site

To enter the REA SharePoint site, go to: <https://connect.doi.gov/blm/NOC/REA> .

When prompted, enter your Windows Active Directory login credentials and click the Log On button.

- Include your DOI agency acronym in your UserName. For example, Bureau of Land Management (BLM) personnel use the following format: blm\jsmith.
- *Non-BLM collaborators of the REAs should contact their Assessment Management Team (AMT) lead to request access to this site.*



If you are directed to an error page regarding the certificate, select: "Continue without Certificate (not recommended)".

U.S. Department of the Interior Access Portal

Log On

UserName:

Password:

If you are a PARTNER and need password assistance please click [here](#)

You are accessing this site from an endpoint running Windows Server 2008 R2.

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## Review the REA SharePoint Homepage

The REA SharePoint homepage provides access to data and products for all completed REAs. Review the documents and lists in the table of contents on the left side of the page for pertinent information such as a list of REAs, the abbreviations used in REA products, and file naming conventions for data and maps.

To access data, maps and other products for a specific REA, select the corresponding tab (labeled by its 3-letter acronym) in the menu bar near the top of the page.



See the list of three-letter acronym for REAs at the bottom of this page or click on the List of REAs in the table of contents. They are used frequently throughout the SharePoint site.

**Locations of Rapid Ecoregional Assessments (REAs)**

Legend  
 Ecoregion(s) in REAs\*  
 \* Hatched areas of ecoregions were not assessed

REA Code	Ecoregion Name	Status	Site Link
CBR	Central Basin and Range	In Progress	

REA - List of REAs - All Items -  
 List containing all the REA codes and names

REA Code	Ecoregion Name	Status	Site Link
CBR	Central Basin and Range	In Progress	
CHD	Chihuahuan Desert	In Progress	
COP	Colorado Plateaus	Public Release	<a href="#">COP Site</a>
MAR	Madrean Archipelago	In Progress	
MIR	Middle Rockies	In Progress	
MBR	Mojave Basin and Range	In Progress	
NOS	North Slope (Beaufort Coastal Plain, Brooks Foothills)	Planned	
NGB	Northern Great Basin (Northern Basin and Range, Snake River Plain)	In Progress	
NWP	Northwestern Great Plains (Northwestern Glaciated Plains, Northern Glaciated Plains)	In Progress	
SNK	Seward Peninsula (Kotzebue Lowlands, Nulato Plains, Seward Peninsula)	In Progress	
SOD	Sonoran Desert	Complete	
SGP	Southern Great Plains (Central Great Plains, High Plains, Southwestern Tablelands)	In Progress	
WYB	Wyoming Basin	In Progress	
YKL	Yukon Kuskokwim (Yukon Lowlands, Kuskokwim Mountains, Lime Hills)	In Progress	

## Review Individual REA SharePoint Subsites

The front page of an individual REA SharePoint subsite (such as "COP" for the Colorado Plateau REA) describes the various products that are available to you such as documents, lists, and catalogs.

The table of contents displayed on the left side of your screen provides quick access links for REA data and products. Refer to the sections below for guidance on accessing each of these products.



Due to the large number of maps and datasets available, we recommend user first review the *Final Report* for an REA (under *Documents* section) to help determine which datasets are of most interest.

The screenshot displays the SharePoint interface for the Colorado Plateau REA. At the top left is the National System of Public Lands logo. The breadcrumb trail shows 'COP > Home' and 'Colorado Plateaus REA site'. A search bar is located at the top right. The left navigation pane is titled 'RE Data Categories' and contains a list of links: 'COP Documents', 'COP Management Questions', 'COP Elements', 'COP Map Catalog', and 'COP Data Catalog'. The main content area is titled 'Colorado Plateau REA' and contains a welcome message, a list of resources (Final Report, Management Questions, Conservation Elements and Change Agents, Map Catalog, Data Catalog), and a photograph of Rattlesnake Canyon, UT. A map on the right shows the Colorado Plateau REA area with a legend for Level III Ecoregion(s) in REA and Analysis Extent of REA.

## Download REA Documents

The final report, task memos, and presentations can be downloaded by clicking on the *Documents* link in the table of contents.

**Colorado Plateau REA**

Welcome to the Colorado Plateau (COP) REA SharePoint site. Here you will find the results of the COP REA, including the:

- Final Report,
- Management Questions,
- Conservation Elements and Change Agents,
- Map Catalog, and
- Data Catalog.

For more information about the COP REA, review the additional resources listed in the table of contents or visit the [COP REA website](#).

For information about the overall REA program, visit the [REA website](#). There you can learn about the purpose of the assessments, how they were conducted, and how the results of the REAs can be used.

Rattlesnake Canyon, UT (BLM)

## Screenshot of a Document List

Type	Name	Description	Modified
	COP_Final_Report_Body	Body of the Final Report. **Click on the maps in the final report to view live online map services and interact with the data!	12/21/2012 1:18 PM
	COP_Final_Report_Appendices	Appendices of the Final Report. **Click on the maps in the final report to view live online map services and interact with the data!	12/21/2012 1:18 PM
	COP_SOD_Review_YouTube_Video_Link	Watch a video reviewing the results of the Colorado Plateau and Sonoran Desert REAs.	12/21/2012 1:17 PM
	COP_Final_Workplan	The final workplan for the Colorado Plateau REA.	12/21/2012 1:17 PM
	COP_Map	A map of the Colorado Plateau REA.	12/21/2012 1:16 PM
	COP_Final_Memo_Task1	This memo identifies the subjects that formed the basis of the Colorado Plateau REA.	12/21/2012 1:15 PM
	COP_Final_Memo_Task2	This memo identifies, evaluates, and recommends datasets for the REA.	12/21/2012 1:15 PM
	COP_Final_Memo_Task3	This memo focuses on the models and analysis methods required to address groups of management questions and conservation elements.	12/21/2012 1:15 PM
	COP_Workshop_6_Materials_Part_1	A presentation which reviews the organization of the final report.	12/21/2012 1:15 PM
	COP_Workshop_6_Materials_Part_2	A presentation which reviews the intactness, status, and climate change models produced for the REA.	12/21/2012 1:15 PM

+ Add document

## Review lists of REA Components

Comprehensive lists of the *Management Questions*, *Conservation Elements*, and *Change Agents* addressed in an REA can be viewed by clicking on the corresponding link in the table of contents.

**NATIONAL SYSTEM OF PUBLIC LANDS** COP > Home  
Colorado Plateau REA site

REA COP Search this site...

**Colorado Plateau REA**  
Welcome to the Colorado Plateau (COP) REA SharePoint site! Here you will find the results of the COP REA, including the:

- Final Report,
- Management Questions,
- Conservation Elements and Change Agents,
- Map Catalog, and
- Data Catalog.

For more information about the COP REA, review the additional resources listed in the table of contents or visit the **COP REA website**.

For information about the overall REA program, visit the **REA website**. There you can learn about the purpose of the assessments, how they were conducted, and how the results of the REAs can be used.

Rattlesnake Canyon, UT (BLM)

**Legend**  
Level III Ecoregion(s) in REA  
Analysis Extent of REA

Screenshot of a List of Management Questions

**NATIONAL SYSTEM OF PUBLIC LANDS** COP > COP Management Questions > All Items -  
COP Management Questions

REA COP Search this site...

MQ Number	Management Question	MQ Category	MQ Comments	REA Code
A1	Where are soils susceptible to wind and water erosion?	A: Soils, Biological Crusts, and Forage Management		COP
A2	Where are sensitive soils (including saline, sodic, gypsiferous, shallow, low water holding capacity)?	A: Soils, Biological Crusts, and Forage Management		COP
A3	Which HMAs and allotments may experience significant effects from change agents including climate change?	A: Soils, Biological Crusts, and Forage Management		COP
A4	Where are soils that have potential to have cryptogamic soil crusts?	A: Soils, Biological Crusts, and Forage Management		COP
A5	What/where is the potential for future change to the cryptogamic crusts?	A: Soils, Biological Crusts, and Forage Management		COP
A6	Where are hotspots producing fugitive dust that may contribute to accelerated snow melt in the Colorado Plateau?	A: Soils, Biological Crusts, and Forage Management		COP

Screenshot of a List of Elements and Agents

**NATIONAL SYSTEM OF PUBLIC LANDS** COP > COP Elements > All Items -  
COP Elements

REA COP Search this site...

Element Name	ProductType	Category	Subcategory	Comments
Agriculture	CA	DV	DV Agriculture	
American peregrine falcon	CE	TS	TS Birds	
Aquatic Ecosystems	CE	AE	N/A	Covers all aquatic ecosystems
Aquatic Sites of High Biodiversity	CE	PL		
Big free-tailed bat	CE	TS	TS Mammals	
Black-footed ferret	CE	TS	TS Mammals	
Bobcat	CE	TS	TS Mammals	Task 4 Report (pg 5) states that this species was dropped
Burrowing owl	CE	TS	TS Birds	
Climate Change	CA	CL		

## View Maps through the Map Catalog

Maps can be accessed through the Map Catalog located under the table of contents. The Map Catalog lists and describes available maps and allows users to view maps in a variety of ways (e.g., in ArcGIS.com, ArcMap).

- **Before accessing a map**, first review the catalog's descriptive information, including:
  - the map title and a brief description of its subject matter,
  - a list of Management Question(s) and/or Conservation Elements and Change Agents that are addressed in the map, and
  - a list of figures in the final report which correspond to the map. Refer to the final report for more detailed information about a map's subject matter.
- **When you have determined which map you would like to access**, click one of its corresponding hyperlinks:
  - [ArcGIS.com](#) – click to view a map online in ArcGIS.com. This option requires no software, only internet access. Use the *BLM ArcGIS.com* link if you are BLM personnel or the *Public ArcGIS.com* link if you are a collaborator. See the following section on ArcGIS.com for more information on this feature.
  - [Map Service](#) – click to access a map through a services directory. This link will take you to an ArcGIS Services Directory where you can opt to view the map in ArcView, ArcGIS Explorer, ArcGIS JavaScript, Google Earth, or ArcGIS.com. All of these viewing applications require installation of software expect for ArcGIS.com. Use the *BLM Map Service* link if you are BLM personnel or the *Public Map Service* link if you are a collaborator. See the following section on Map Services for more information on this feature.



Maps are listed alphabetically in the Map Catalog. You can **search for a specific map name or a key word** using the *Search this Site...* tool in upper right corner of the catalog (see screenshot below).

The screenshot displays the 'Colorado Plateau REA' SharePoint site. On the left-hand side, a navigation menu lists various categories, with 'COP Map Catalog' highlighted by a red rectangular box. The main content area features a map of the Colorado Plateau REA, showing the 'Level III Ecoregion(s) in REA' and the 'Analysis Extent of REA'. Below the map is a legend and a list of links: 'Final Report', 'Management Questions', 'Conservation Elements and Change Agents', 'Map Catalog, and', and 'Data Catalog'. A photograph of Rattlesnake Canyon, UT (BLM) is also visible at the bottom of the page.

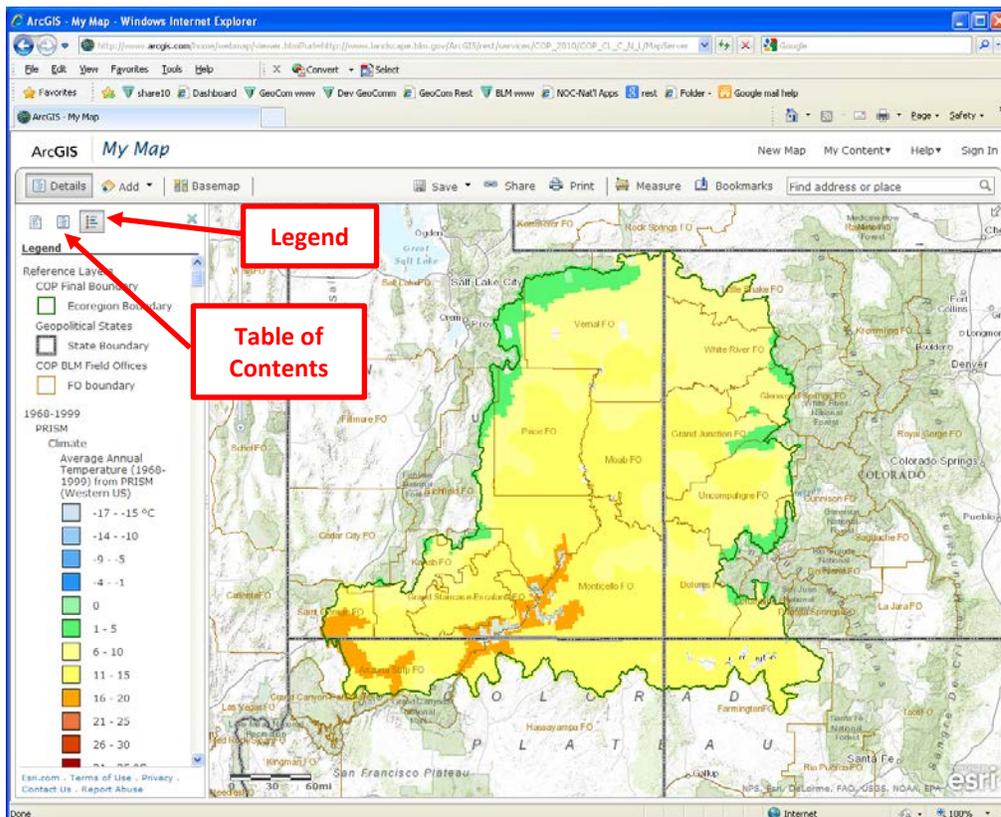
*Screenshot of a Map Catalog*

Map Title	Map Description	BLM ArcGIS.com Link	BLM Map Service Link	Public ArcGIS.com Link	Public Map Service Link	Management Q
Colorado Plateau Ecoregion (COP)	This map shows the location of the Colorado Plateau Ecoregion.	<a href="#">BLM ArcGIS.com</a>	<a href="#">BLM Map Service</a>	<a href="#">Public ArcGIS.com</a>	<a href="#">Public Map Service</a>	
COP Change Agents - Climate Change	This map shows climate parameters and MAPSS biogeography model data for the western US from PRISM (1968-1999), and future climate projections from the regional climate model RegCM3 using ECHAM5, GENMOM, and GFDL projections as boundary conditions for 2015-2030, and 2045-2060.	<a href="#">BLM ArcGIS.com</a>	<a href="#">BLM Map Service</a>	<a href="#">Public ArcGIS.com</a>	<a href="#">Public Map Service</a>	
COP Change Agents - Climate Change - Long-Term Potential For Change	This map shows long-term potential for climate change, which was calculated using a logic model to integrate the factors of: vegetation change summer & winter temperature change annual precipitation change runoff change.	<a href="#">BLM ArcGIS.com</a>	<a href="#">BLM Map Service</a>	<a href="#">Public ArcGIS.com</a>	<a href="#">Public Map Service</a>	
COP Change Agents - Development - Current, Near-Term, and Long-Term Potential High Landscape Development	This map shows areas of high current, near-term, and long-term potential landscape development, based on factors such as urban areas, agriculture, roads, and energy development.	<a href="#">BLM ArcGIS.com</a>	<a href="#">BLM Map Service</a>	<a href="#">Public ArcGIS.com</a>	<a href="#">Public Map Service</a>	G1

**ArcGIS .com**

The ArcGIS .com link will open a session of ArcGIS.com interactive map service which will display the map you selected (see screenshot below). In ArcGIS.com you can interact with the map and even add additional data to the map if desired. Once the map is loaded, you can:

- Click on the Details tab to **access the Legend and Table of Contents** (see graphic below).
  - the Legend shows which layers are currently displayed in the map, and
  - the Table of Contents allows you to see all data layers in the map and select which to turn on or off.
- Click on the Add or Basemap tabs to **add data** from your either computer or from public data services.
- Use the tools at the top of the map **Print, Share, or Save** a map. There are also tools that allow you to **zoom, pan and measure**.
- **You cannot download data** directly from the ArcGIS.com.
  - If you would like to download a dataset seen in the map, note its name and go to the Data Catalog to download that data or use the ArcGIS service to stream the map.



### Map Services

The Map Service Link will bring up an *ArcGIS Service Directory* providing details about the map service including data layers, query options, map display, and KML generation. You can stream the ArcGIS Services to your own local GIS software application using the ArcGIS rest service URL. For example:

- If you have **ArcMap** installed on your local computer, you can click on the ArcMap hyperlink in the directory to open/save the map as an MXD.
- Similarly, if you have any of the other listed software applications installed (e.g., Google Earth), simply click the corresponding hyperlink to view the map in that application.



## Download Data through the Data Catalog

Data can be downloaded through the Data Catalog located in the table of contents. The Data Catalog lists and describes available datasets and provides download access to them.

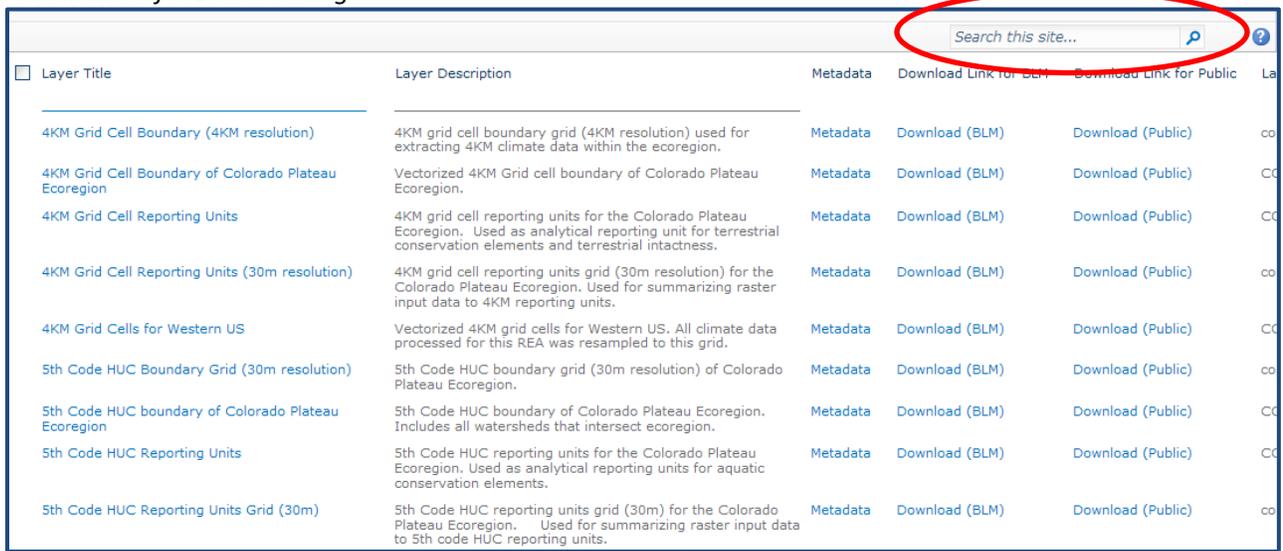
- **Before downloading a dataset**, first review the catalog's descriptive information, including:
  - the title and a brief description of the data subject matter, and
  - its Metadata, which can be viewed by clicking on the corresponding hyperlink.
- **To download a dataset**, click either the Download (BLM) link (if you are BLM personnel) or the Download (Public) link (if you are a collaborator). Data are downloaded as layer package files (.lpx) or zipped files (.zip) which include a dataset and corresponding layer file(s).
  - You will be asked to save a zipped file (.zip) or a layer package file (.lpx), both of which contain the data file (in vector or raster format) and corresponding layer file(s). Layer files store the symbology used to display the data (i.e., color schemes, symbols, labels).
    - If you download a zipped file, you must "Save" the file locally and unzip the file before you can view the data or layer file(s) contained within. Once unzipped, add the data or layer files to an ArcMap project. Zipped files may contain multiple layer files which correspond to one dataset; the multiple layers files allow you to view the same dataset in different ways.
    - If you download a layer package, you can either:
      - Click "Save" to save the .lpx file locally. You can add it to an ArcMap project by dragging and dropping the layer package from ArcCatalog or, from within ArcCatalog, right-click the layer package and select "Unpack".
      - Click "Open" and ArcMap will automatically open a new project (MXD) containing the data. If you want to keep the data, you must save it from within ArcMap or go back to the Data Catalog, click the Download link, and click "Save".
  - The files names for the dataset and layer file(s) contained in the zipped files and layer packages are listed in the Data Catalog for you reference.



Datasets are listed alphabetically in the Data Catalog. You can **search for a specific map name or a key word** using the *Search this Site...* tool in upper right corner of the catalog (see screenshot below).

The screenshot shows the 'Colorado Plateau REA' page on the National System of Public Lands website. The left sidebar contains a navigation menu with 'COP Data Catalog' highlighted in a red box. The main content area features a map of the Colorado Plateau REA and a list of links for the Final Report, Management Questions, Conservation Elements and Change Agents, Map Catalog, and Data Catalog. A search bar is visible in the top right corner of the page.

*Screenshot of a Data Catalog*



The screenshot shows a data catalog interface. At the top right, there is a search bar with the placeholder text "Search this site..." and a magnifying glass icon. This search bar is circled in red. Below the search bar is a table with the following columns: "Layer Title", "Layer Description", "Metadata", "Download Link for BLM", "Download Link for Public", and "Layer ID". The table contains eight rows of data, each representing a different geographic layer.

Layer Title	Layer Description	Metadata	Download Link for BLM	Download Link for Public	Layer ID
4KM Grid Cell Boundary (4KM resolution)	4KM grid cell boundary grid (4KM resolution) used for extracting 4KM climate data within the ecoregion.	Metadata	Download (BLM)	Download (Public)	co
4KM Grid Cell Boundary of Colorado Plateau Ecoregion	Vectorized 4KM Grid cell boundary of Colorado Plateau Ecoregion.	Metadata	Download (BLM)	Download (Public)	CO
4KM Grid Cell Reporting Units	4KM grid cell reporting units for the Colorado Plateau Ecoregion. Used as analytical reporting unit for terrestrial conservation elements and terrestrial intactness.	Metadata	Download (BLM)	Download (Public)	CO
4KM Grid Cell Reporting Units (30m resolution)	4KM grid cell reporting units grid (30m resolution) for the Colorado Plateau Ecoregion. Used for summarizing raster input data to 4KM reporting units.	Metadata	Download (BLM)	Download (Public)	co
4KM Grid Cells for Western US	Vectorized 4KM grid cells for Western US. All climate data processed for this REA was resampled to this grid.	Metadata	Download (BLM)	Download (Public)	CO
5th Code HUC Boundary Grid (30m resolution)	5th Code HUC boundary grid (30m resolution) of Colorado Plateau Ecoregion.	Metadata	Download (BLM)	Download (Public)	co
5th Code HUC boundary of Colorado Plateau Ecoregion	5th Code HUC boundary of Colorado Plateau Ecoregion. Includes all watersheds that intersect ecoregion.	Metadata	Download (BLM)	Download (Public)	CO
5th Code HUC Reporting Units	5th Code HUC reporting units for the Colorado Plateau Ecoregion. Used as analytical reporting units for aquatic conservation elements.	Metadata	Download (BLM)	Download (Public)	CO
5th Code HUC Reporting Units Grid (30m)	5th Code HUC reporting units grid (30m) for the Colorado Plateau Ecoregion. Used for summarizing raster input data to 5th code HUC reporting units.	Metadata	Download (BLM)	Download (Public)	co