



Central Asia Climate Information Platform

Development and Technical updates of the Platform (CACIP)

26 February 2020 – Almaty, Kazakhstan

Enrico Bonaiuti, Akmal Akramkhanov





Agenda

- 2019 Activities
- 2020 Plan
- Feedback with Stakeholders and Awareness
- Sustainability: MoU and Capacity Development
- CACIP Technical Updates

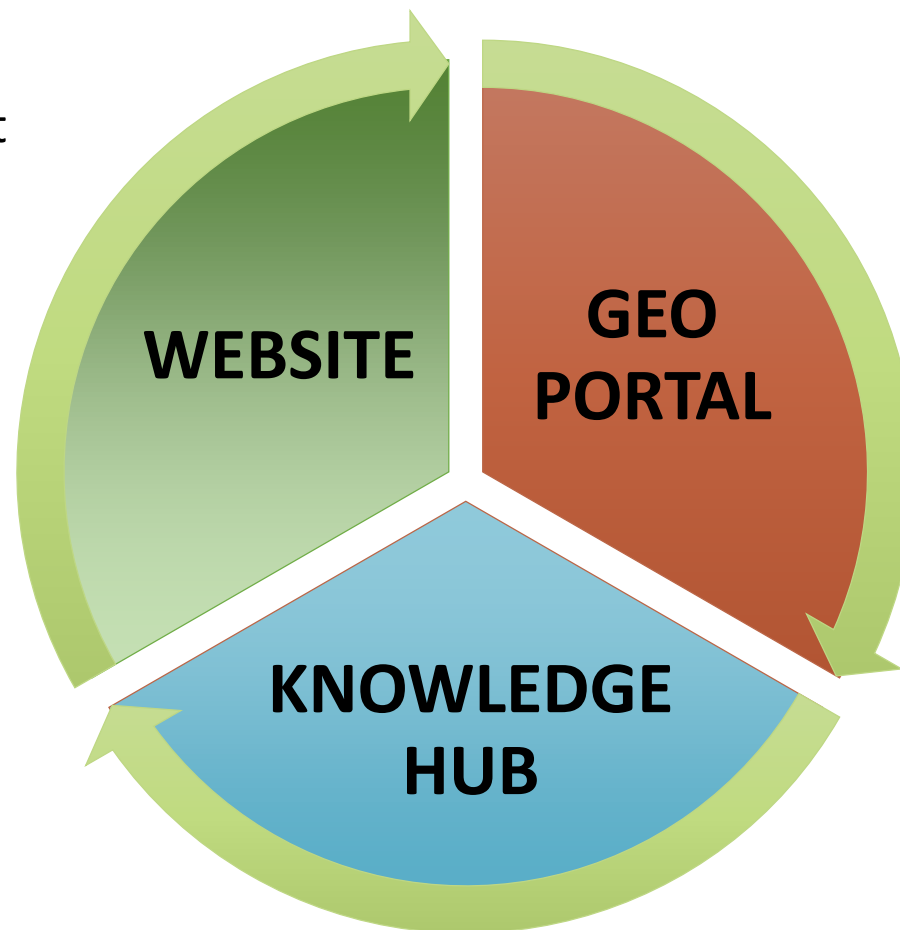


Logical Architecture

the **WEBSITE** is the entry point of the platform

the **KNOWLEDGE HUB** collects, store and provides docs, ideas, contacts, and all relevant information

the **GEO PORTAL** collects manages and displays geographical data and includes analysis tools



Country Stakeholder Consultations



June 11, 2019
Tashkent
Uzbekistan

June 14, 2019
Almaty
Kazakhstan

July 11, 2019
Bishkek
Kyrgyzstan

July 15, 2019
Dushanbe
Tajikistan

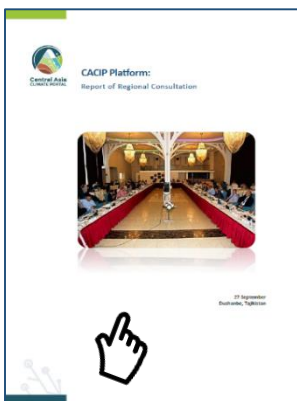
August 26, 2019
Khujand
Tajikistan

Sept 9, 2019
Ashkhabad
Turkmenistan

Regional consultation 27 September 2020



Central Asia
CLIMATE PORTAL

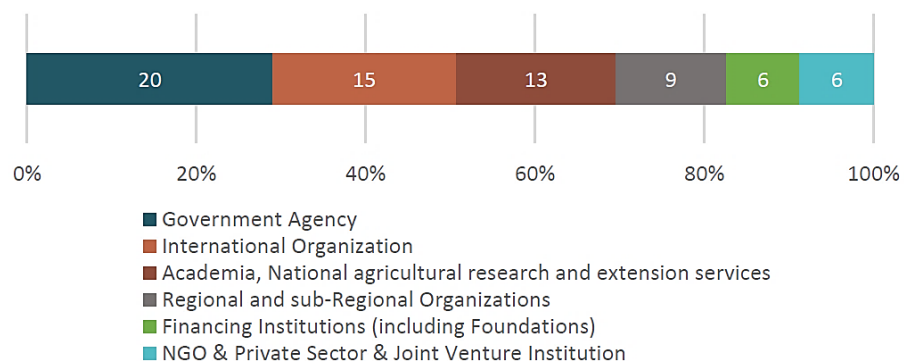


Report of Regional
consultation



The workshop was held on 27th of September 2019 in Dushanbe (Tajikistan) to conduct the regional consultation for Central Asian Climate Information Platform (CACIP). The event was jointly hosted by the Tajik Academy of Agricultural Sciences (TAAS) and the State Committee on Environmental Protection (CEP) of Tajikistan.

Representation of participants by organization type



86%
appreciation
rate with
meeting

Activity	Description-of-Activity	2019	2020									
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Delivery-1-Concept-of-CACIP												
1.1	MoU among key stakeholders signed and national team appointed											
	MOU draft submitted to CAREC											
	MOU amended with CAREC comments											
	Stakeholders are consulted jointly with CAREC offices											
	MOU signed, CACCC-2020											
1.2	Updated Stakeholder's inventory; updated web-sites inventory											
1.3	Pilot demo developed											
Delivery-2.1-Stakeholders consultation: Usage and Contribution												
2.1.1	Technical visits and joint working c/o stakeholders in each country											
	Follow-up actions as per results of Technical visits											
2.1.2	Define CACIP system design and architecture documentation (final)											
2.1.3	Feedback regional workshop with key stakeholders CACCC-2020											
2.1.4	Roll-out and sustainability plan for the platform: Sustainability plan											
	Roll-out and sustainability plan for the platform: Detailed budget											
	Roll-out and sustainability plan for the platform: Cloud server storage to run CACIP											
Task 2 – Completion 30 June 2020												
Delivery-3.1 – Full CACIP developed												
3.1.1	CACIP Full Platform											
3.1.2	Quality assurance with key partners											
3.1.3	Launch workshop of CACIP & testing session for feedback											
3.1.4	Development of capacity development media material											
3.1.5	Capacity development program (individual, group courses and e-learning)											
3.1.6	Finalize help desk support system to collect feedback and enhancement											
Task 3 – Completion – 30 October 2020												

Action Plan 2020

Institutional Feedback

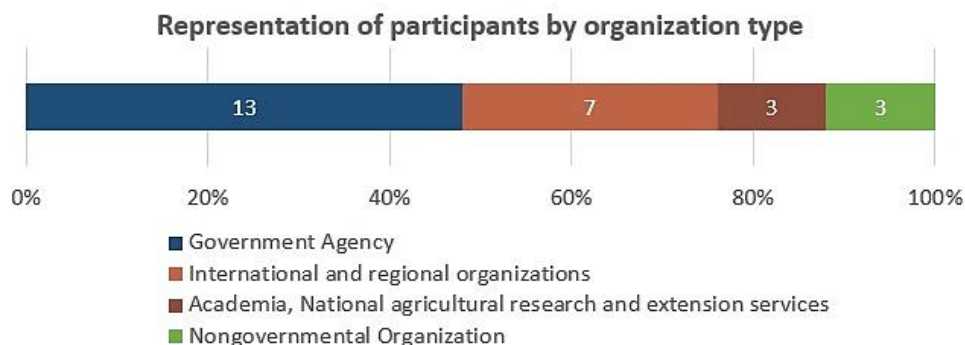


- Scientific-Information Center of the Interstate Coordination Water Commission of the Central Asia (SIC ICWC)
- The Centre of Hydrometeorological Service of Uzbekistan (UzHydromet)
- National Coordination Unit of CAMP4ASB UZ (NCU UZ)
- Project preparatory group of Environmental Protection Committee (CEP) of Tajikistan, Project Implementation Unit of Ministry of Finance (MoF) of Tajikistan
- State Committee on Ecology and Environmental Protection of Republic of Uzbekistan
- Environmental Protection Committee of Tajikistan
- Hydrometeorological service of Tajikistan
- Ecological Youth Center of Tajikistan
- State Enterprise Research Institute of Water and amelioration (TajNIIGIM) under Ministry of Energy and water resources
- Environmental Protection Committee of Tajikistan, Information Center

Workshop “Farmers’ access to CACIP products in Dushanbe February 11, 2020



The workshop was held on 11th of February 2020 in Dushanbe (Tajikistan) to conduct the country consultation for Central Asian Climate Information Platform (CACIP) to discuss with national stakeholders the "Farmers' access to CACIP products". The event was jointly hosted by the State Committee on Environmental Protection (CEP) of Tajikistan and Project Implementation Group under CEP.



Read more at National Tadjik Journal web [News “Inson va Tabiat”](#).

[Committee of Environmental Protection of Tajikistan in Tajik and Russian.](#)

Or follow upcoming reports and newsletter from CACIP

83%
appreciation
rate with
meeting

Awareness



**В рамках
регионального
партнёрства**

Лекции консультативного характера по деятельности Центральноазиатской климатической информационной платформы прослушали представители министерств, включая «Туркменгидромет», Национальный институт пустынь, растительного и животного мира. Участниками семинара стали специалисты Межгосударственной комиссии по устойчивому развитию Международного фонда спасения Арала, Международного центра сельскохозяйственных исследований в засушливых регионах (ИКАРДА). Встреча прошла при организационной поддержке Министерства сельского хозяйства и охраны окружающей среды, Регионального экологического центра Центральной Азии. Был представлен текущий обзор положения в области климатической информации, рассматривалось значение научного сотрудничества. Кроме презентационной части семинар включал работу в группах по секциям для обсуждения вопросов климатической тематики. В финале прошли индивидуальные встречи в рамках обмена опытом. В качестве консультантов выступили Рустам Ибрагимов – заместитель главы узбекского представительства ИКАРДА и Акмал Акрамха-

CACIP Regional consultation video reportage, Dushanbe, Tajikistan

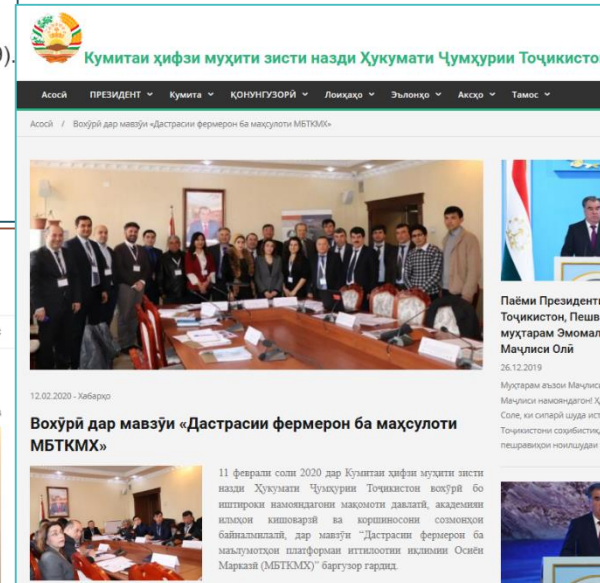


Citation

Kanoatkhon Umurzokova, Enrico Bonaiuti, Valerio Graziano. (27/9/2019). CACIP Regional consultation video reportage, Dushanbe, Tajikistan.

Abstract

CACIP Regional consultation Video report, Dushanbe, Tajikistan



CACIP Overview and FAQ booklets

Based on the questions asked in five country consultations, two consultations with farmers, and individual consultations, we developed a document with answers to the most **FREQUENTLY ASKED QUESTIONS** & Booklet with explaining main features of Platform



CACIP Newsletters

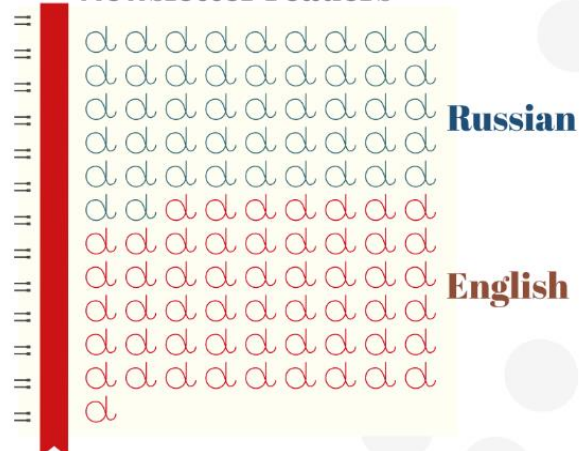


247
получателей



CACIP Newsletter
Issue 2

Newsletter readers



Where our readers are located?



<https://www.linkedin.com/groups/13804516/>

<https://www.facebook.com/groups/CACIP/>

<https://fb.me/centralasiacclimateinformationplatform>

t.me/central_asian_climate_platform



Explore more
about other CACIP
documents



Другие
документы
ЦАКИП



A HOME FOR CLIMATE INFORMATION IN CENTRAL ASIA



The Central Asia Climate Information Platform (CACIP) brings comprehensive and up-to-date climate information directly to the screens of stakeholders in Central Asia, free of charge.



Draws in public data from local, regional and global sources, making it available in one central location.



Easily accessible from any computer or mobile device.



Collates and analyzes information.



Provides tools and interfaces for visualizing and interpreting data such as temperature, soil moisture and desertification.



Combines information from multiple sources, e.g. merging national level datasets to generate a regional perspective.



Analyzes trends and calculates future scenarios.



Transforms data into maps to create a visual result.

The platform allows many different users like policy makers, researchers and farmers to access and analyze a wide range of climate relevant information, supporting improved awareness, assessment and decision-making.

CACIP covers the five Central Asian countries, providing both a regional outlook and country specific information. CACIP is available in Russian and English. In later stages, CACIP will include five Central Asian languages.



What does CACIP offer?

Navigating the platform

Four distinct sections make navigating the platform and finding information quick and easy.



Website: main entry point displaying climatic overview, recent news, blogs, social media feeds, and more. From here, users can navigate to other areas of the platform.



Knowledge Hub: digital library that collects and displays a variety documents such as journal articles, reports, training materials, multimedia, infographics, spatial and statistical data, and more.



Geo Portal: collects, manages and displays geospatial data and allows select types of analytics. Users can upload data from the field directly.



Discussion forum

Sustainability



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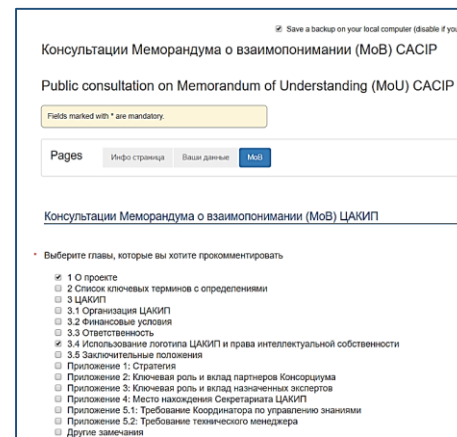
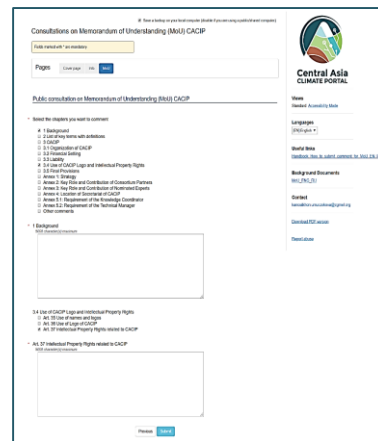
Ownership: Consortium convened by CAREC

Organizational: MoU among key stakeholders with human capital and presence in the region.

**Draft MoU as per
23 Dec 2019**



Consultations with parties



Final MoU

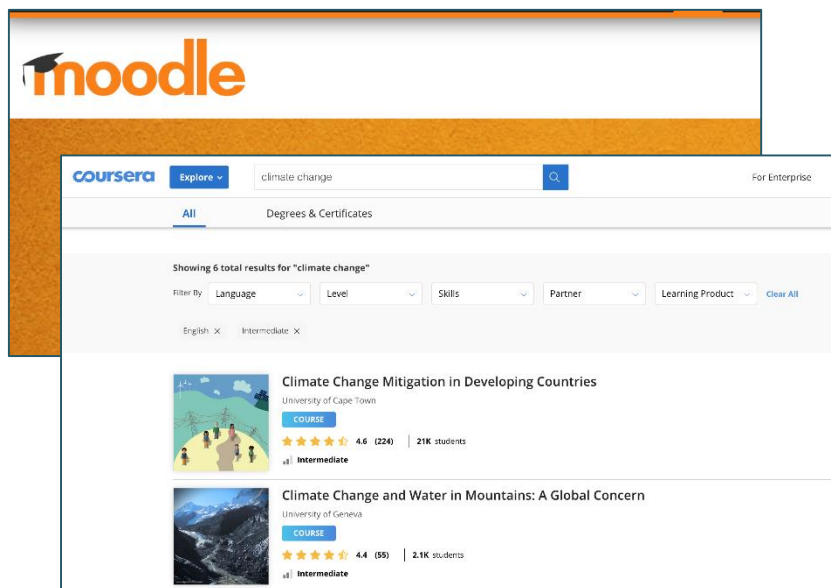


Financial: Linkages with initiatives, access to services, funding campaign, linkages with projects.

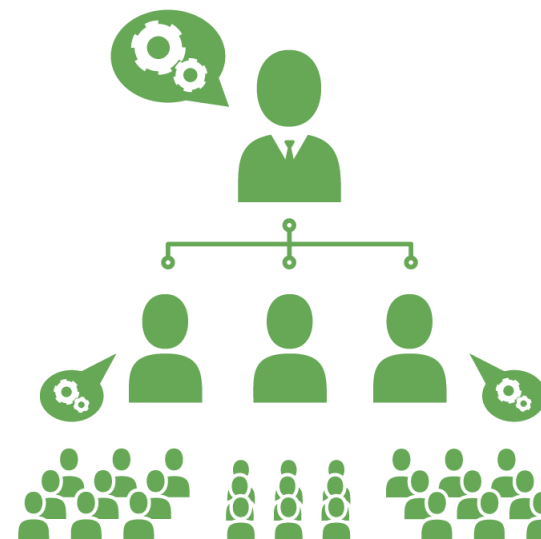
Community: engagement beyond CACIP with country awareness activities (Youth and Forum) and promotion of services;

Learning the Platform

Individual learning



Training of Trainers





Central Asia Climate Information Platform

Technical Updates

26 February 2020 – Almaty, Kazakhstan

Simone Maffei, Aya Mousa, Enrico Bonaiuti



CACIP

Managing geographical data

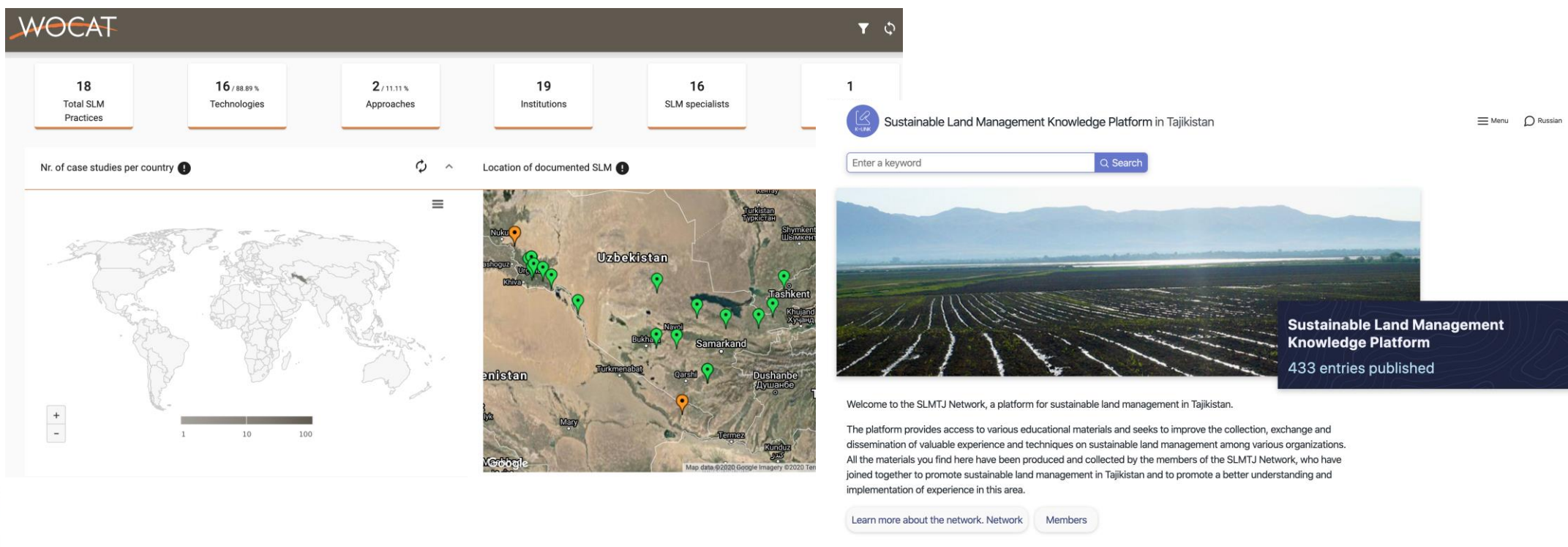
The CACIP Harvester, automatically collects metadata related to geographical data from many sources, for example:

- Moderate Resolution Imaging Spectroradiometer (modis.gsfc.nasa.gov)
- Fire Information for Resource Management System (firms.modaps.eosdis.nasa.gov)
- Protected Planet (protectedplanet.net)
- National Snow and Data Center (nsidc.org)
- Kyrgyzstan Disaster Risk Data Platform (geonode.mes.kg)
- Wocat.net

But data can be also manually uploaded/managed
below a short tour through this feature

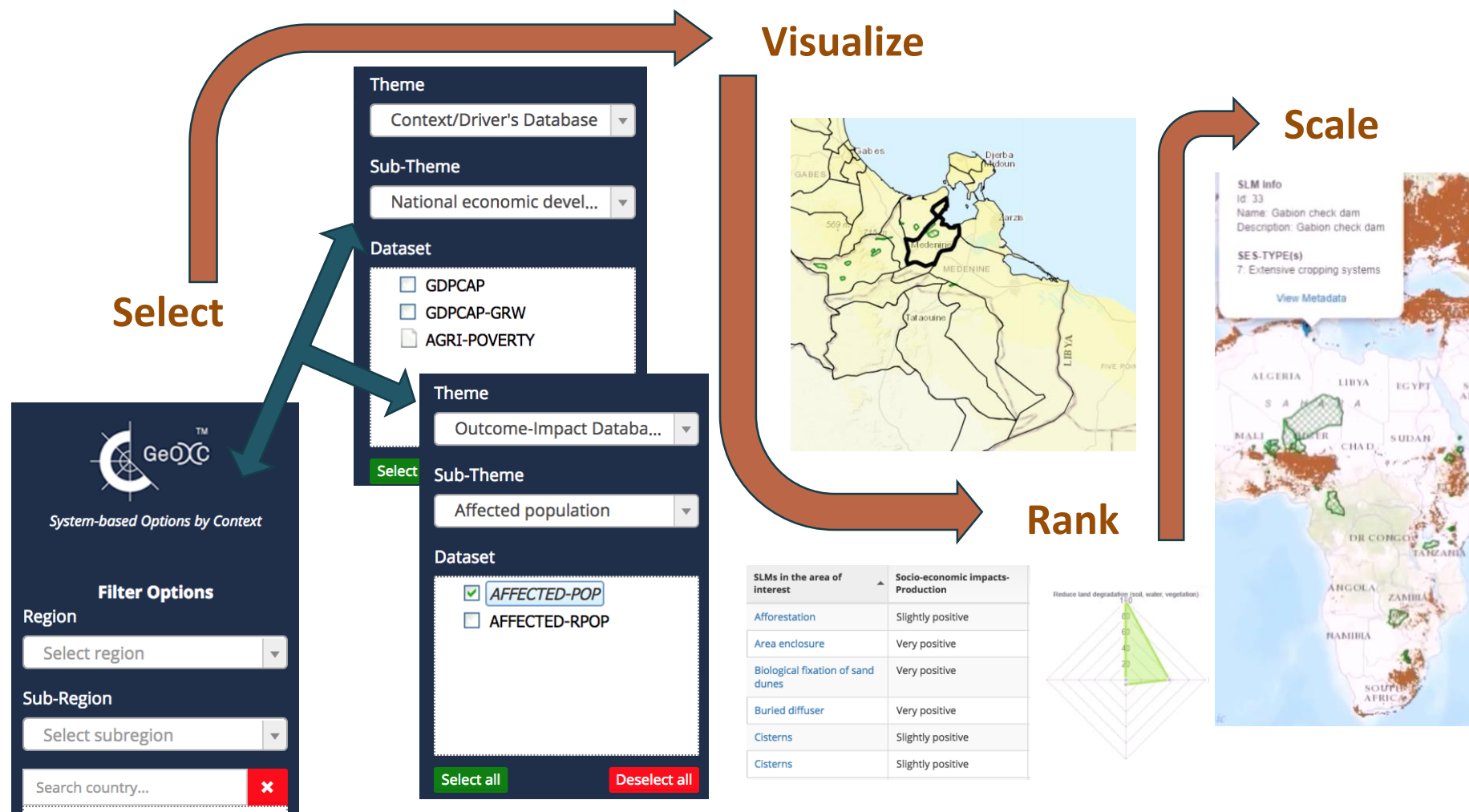
Technologies and practices in the region

- **WOCAT** as Global interoperable database, maintained by a consortium and recommended by UNCCD for advance applications (e.g. Carbon Benefit, LDN Targeting, etc).
- **SLMTJ** Network is well known country level database collecting knowledge suitable for farmers and practitioners at field level



The image displays two web interfaces. The top interface is the WOCAT (World Overview of Conservation Approaches and Technologies) database. It features a header with the WOCAT logo and a navigation bar with filters for 'Total SLM Practices' (18), 'Technologies' (16 / 88.89%), 'Approaches' (2 / 11.11%), 'Institutions' (19), and 'SLM specialists' (16). Below the filters, there are two maps: a world map on the left and a detailed map of Central Asia on the right. The Central Asia map shows various locations marked with green pins, including Nuku, Tashkent, Samarkand, and Dushanbe. The bottom interface is the Sustainable Land Management Knowledge Platform in Tajikistan. It features a header with the platform's name and a search bar. Below the search bar, there is a large image of a field with rows of crops. To the right of the image, a dark blue box contains the text 'Sustainable Land Management Knowledge Platform' and '433 entries published'. Below the image, there is a welcome message and a description of the platform's purpose. At the bottom, there are two buttons: 'Learn more about the network. Network' and 'Members'.

Technologies and practices in the region





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Central Asia Climate Information Platform

A quick introduction on manually harvesting data
the case of “FAO spatial data”



A quick introduction on manually harvesting data the case of “FAO spatial data”



CACIP MDH Meta Data Harvester

A GENERAL INTRODUCTION OF MDH

The CACIP platform embeds an engine (MDH Meta Data Harvester) that harvest data from different sources:

- harvesting is **automatic** – the MDH engine is set to
 - connect to the source of data
 - exchange information
 - “standardize” this information according with the internal CACIP database structure
 - store the metadata in the internal database (with the link to the original data)
- harvesting **run once every 24 hours**, then the internal database is updated every day to include all the useful products available in the connected remote server (..the theoretical delay on the visualization of new data is maximum 24 hours)

CACIP

MDH Meta Data Harvester

SOME EXCEPTIONS

Harvesting information from different sources is not an easy task, because on **different interfaces to the data, different type of information/metadata provided**, etc..

For this reason, in some cases, some manual activities are needed to refine the metadata entered in the CACIP database.

below a quick tour based on the
manual harvesting of FAO spatial data

CACIP

Manual harvesting of FAO Spatial data

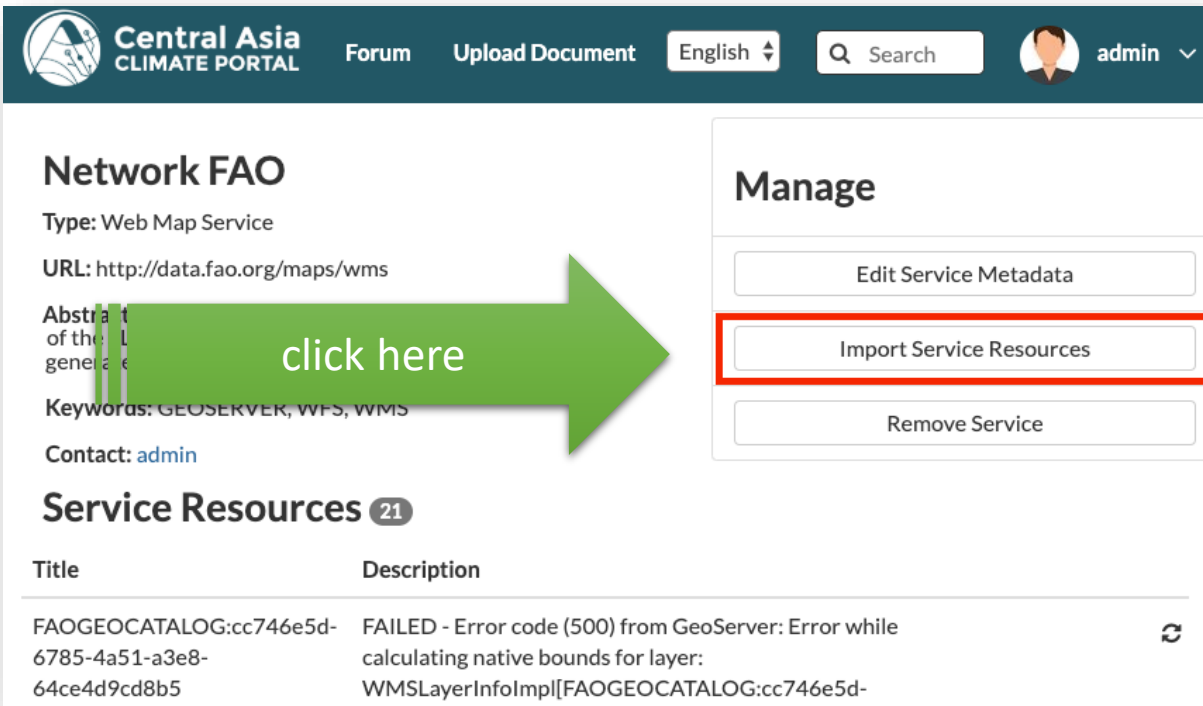
Step 1

The FAO manual harvesting page is available, for admin users, at the following link:

<http://geonode.centralasiacclimateportal.org/services/25953/>

To start harvesting it is necessary to press the button

IMPORT SERVICE RESOURCES



The screenshot shows the Central Asia Climate Portal interface. The top navigation bar includes the logo, 'Forum', 'Upload Document', a language dropdown set to 'English', a search bar, and a user profile for 'admin'. The main content area is titled 'Network FAO' and displays service details: 'Type: Web Map Service', 'URL: http://data.fao.org/maps/wms', 'Abstract: of the L gener e', and 'Keywords: GEOSEVER, WFS, WMS'. A green arrow with the text 'click here' points to the 'Import Service Resources' button in the 'Manage' section. Other buttons in the 'Manage' section are 'Edit Service Metadata' and 'Remove Service'. Below the service details, there is a 'Service Resources' section with a count of 21. The first entry in the table shows a failed attempt to calculate native bounds for a layer.

Title	Description
FAOGEOCATALOG:cc746e5d-6785-4a51-a3e8-64ce4d9cd8b5	FAILED - Error code (500) from GeoServer: Error while calculating native bounds for layer: WMSLayerInfoImpl[FAOGEOCATALOG:cc746e5d-6785-4a51-a3e8-64ce4d9cd8b5]

CACIP

Manual harvesting of FAO Spatial data

Step 2

After pressing “Import Service Resources”, the administrator will be prompted with the list of resources available to be imported.

To import the resources it is necessary to scroll to the end of the page and press the button

IMPORT RESOURCES

Import resources httpdatafaorgmapswms

Manage

Re-scan Service for new Resources

1000 resources can be imported - These will be cascaded through your local geoserver instance

<input checked="" type="checkbox"/> Id	Name	Description
<input checked="" type="checkbox"/> FAOGEOCATALOG:915b1b91-a9bc-40cd-b63c-df972b1cf2e3	Crop-specific actual evapotranspiration (mm) for high input level rain-fed winter barley for future period 2020s	Evapotranspiración real durante el ciclo del cultivo para para cebada de invierno de seco (nivel de altos insumos). El modelo ha sido aplicado tomando en cuenta el Período de 30 años (2011-2040). Este conjunto de datos es resultante de los procedimientos de cálculos del Módulo I GAEZ (Análisis de datos climáticos y compilación de indicadores agroclimáticos generales) y del Módulo II GAEZ (Evaluación agroclimática por cultivo específico y cálculo de biomasa/rendimiento con limitados recursos hídricos). Estos módulos ofrecen información sobre la evapotranspiración real del cultivo específico... (más información sobre los Módulos I y II se puede visualizar en la sección de Información adicional de estos metadatos). Fuente de datos sobre el clima La evaluación GAEZ utiliza series de datos sobre el tiempo de la Unidad de Investigación del clima (CRU, por sus siglas en inglés) de la Universidad de East Anglia, datos promedios mensuales de latitud/longitud de 15 minutos de series de escalares de series 2°B1.1°S. 3°N (Nuevo 2002), y cuadrícula para el tiempo y 15 por sus siglas en series del clima en la cuadrícula de tiempo.

Import resources httpdatafaorgmapswms

1000 resources can be imported - These will be cascaded through your local geoserver instance

<input checked="" type="checkbox"/> Id	Name	Description
<input checked="" type="checkbox"/> FAOGEOCATALOG:915b1b91-a9bc-40cd-b63c-df972b1cf2e3	Crop-specific actual evapotranspiration	Evapotranspiración real durante el ciclo del cultivo para para cebada de invierno de seco (nivel de altos insumos). El modelo ha sido aplicado tomando en cuenta el Período de 30 años (2011-2040). Este conjunto de datos es resultante de los procedimientos de cálculos del Módulo I GAEZ (Análisis de datos climáticos y compilación de indicadores agroclimáticos generales) y del Módulo II GAEZ (Evaluación agroclimática por cultivo específico y cálculo de biomasa/rendimiento con limitados recursos hídricos). Estos módulos ofrecen información sobre la evapotranspiración real del cultivo específico... (más información sobre los Módulos I y II se puede visualizar en la sección de Información adicional de estos metadatos). Fuente de datos sobre el clima La evaluación GAEZ utiliza series de datos sobre el tiempo de la Unidad de Investigación del clima (CRU, por sus siglas en inglés) de la Universidad de East Anglia, datos promedios mensuales de latitud/longitud de 15 minutos de series de escalares de series 2°B1.1°S. 3°N (Nuevo 2002), y cuadrícula para el tiempo y 15 por sus siglas en series del clima en la cuadrícula de tiempo.

click here

Back to service details

Import Resources


CACIP

Manual harvesting of FAO Spatial data

Step 3

The final step is to **CONFIRM THE IMPORT OF EACH RESOURCE** by pressing the “refresh” button beside each resource



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Forum Upload Document

English Search admin

Network FAO

Type: Web Map Service

URL: <http://data.fao.org/imap/wms>

Abstract: A compliant implementation of WMS plus most of the SLD extension (dynamic styling). Can also generate PDF, SVG, KML, GeoRSS

Keywords: GEOSERVER, WFS, WMS

Contact: [admin](#)





Manage

Edit Service Metadata

Import Service Resources

Remove Service

Service Resources 21

Title	Description	
FAOGEOCATALOG:cc746e5d-6785-4a51-a3e8-64ce4d9cd8b5	FAILED - Error code (500) from GeoServer: Error while calculating native bounds for layer: WMSLayerInfoImp[FAOGEOCATALOG:cc746e5d-6785-4a51-a3e8-64ce4d9cd8b5]	
FAOGEOCATALOG:cc629b10-0017-45c0-ad3b-0e7493b02ead	FAILED - Error code (500) from GeoServer: Error while calculating native bounds for layer: WMSLayerInfoImp[FAOGEOCATALOG:cc629b10-0017-45c0-ad3b-0e7493b02ead]	
FAOGEOCATALOG:cc657e2c-c850-4644-bf08-c72108db3973	FAILED - Error code (500) from GeoServer: Error while calculating native bounds for layer: WMSLayerInfoImp[FAOGEOCATALOG:cc657e2c-c850-4644-bf08-c72108db3973]	
FAOGEOCATALOG:cc660909-6531-4089-b5f0-5225227d5550	FAILED - Error code (500) from GeoServer: Error while calculating native bounds for layer: WMSLayerInfoImp[FAOGEOCATALOG:cc660909-6531-4089-b5f0-5225227d5550]	



click here

CACIP

Managing geographical data

Main topics

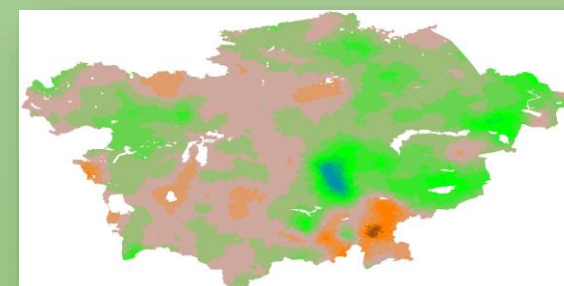
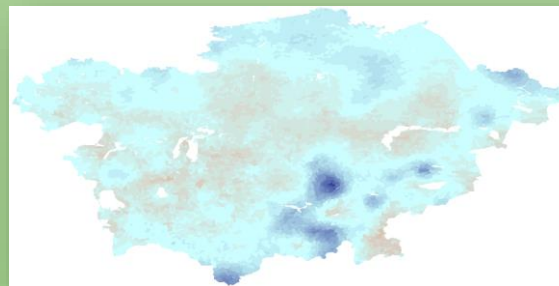
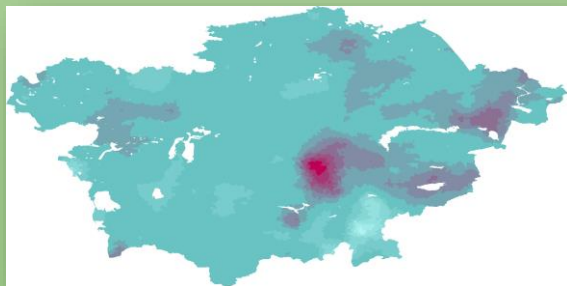
MANUAL UPLOAD of VECTOR GEOGRAPHICAL DATA
CUSTOMIZATION of the METADATA

MANUAL UPLOAD of RASTER GEOGRAPHICAL DATA

SHARING INFORMATION (DOWNLOAD DATA from CACIP)

CACIP Uploading geographical data

MANUAL UPLOAD OF SHAPE FILE DATA & METADATA CUSTOMIZATION

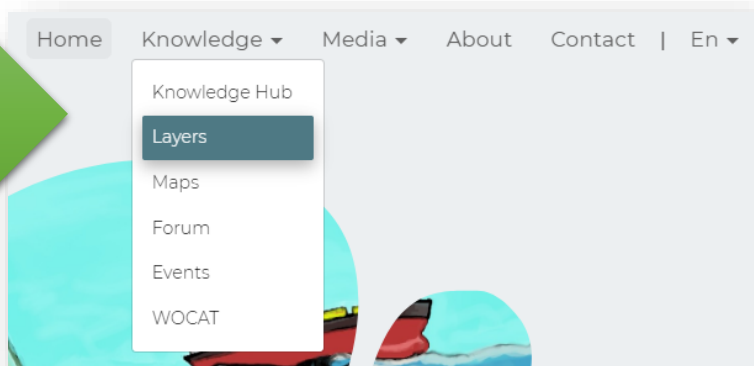


CACIP SHAPEFILE: uploading geographical data

1

a) uploading activities are located in the “knowledge hub”

a) click here



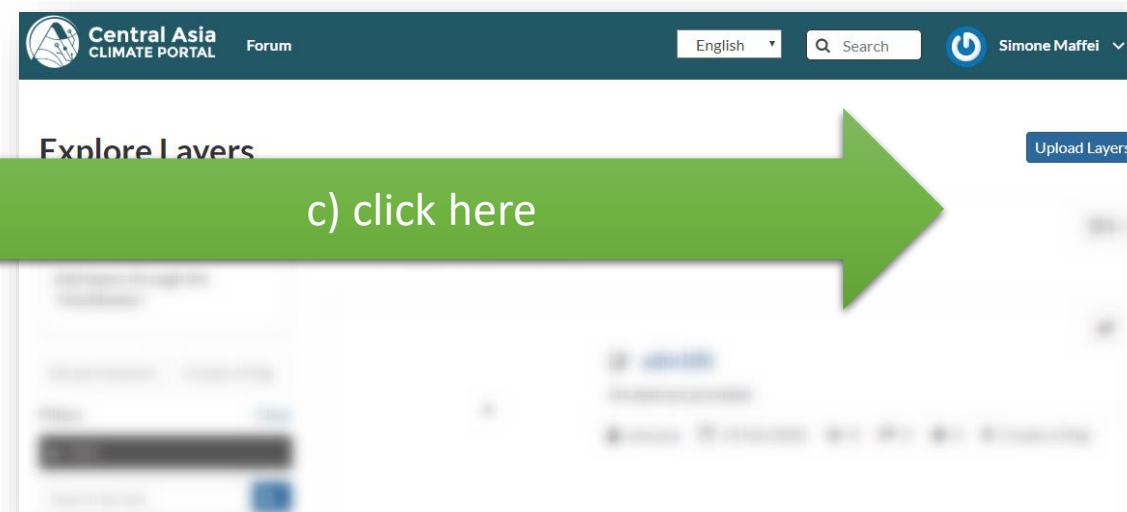
B) to upload data the user must sign in to the CACIP portal

b) click here



c) A specific form allows users to upload their own data

c) click here



CACIP

SHAPEFILE: uploading geographical data

2

UPLOAD FILES

Select files (2 methods):

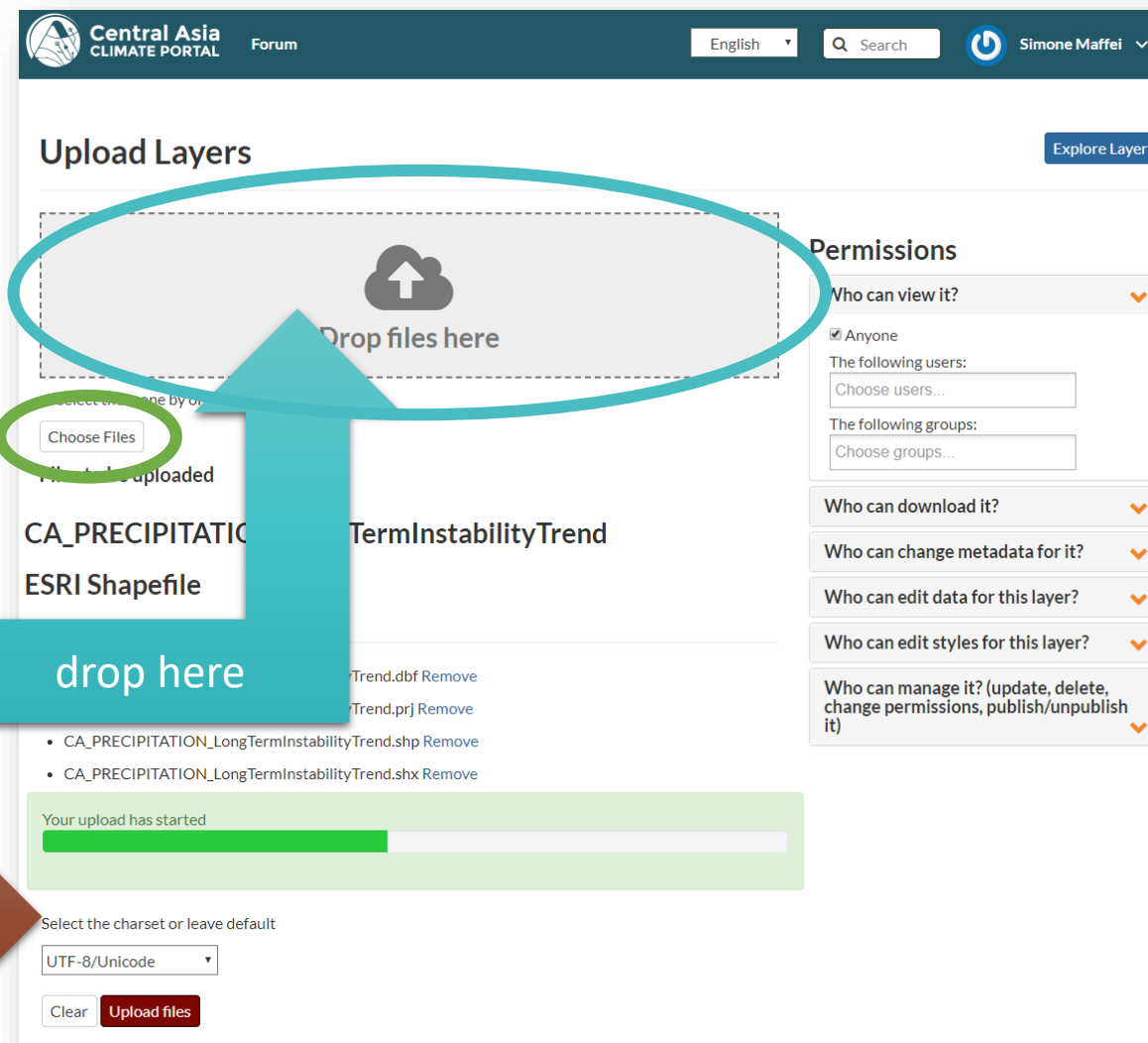
1. choose files from your hard drive
2. drop files in the “active box”

Start uploading

click here

drop here

click here



Central Asia
CLIMATE PORTAL Forum English Search Simone Maffei

Upload Layers

Explore Layers

Drop files here

Choose Files

CA_PRECIPITATION_LongTermInstabilityTrend ESRI Shapefile

CA_PRECIPITATION_LongTermInstabilityTrend.dbf Remove

CA_PRECIPITATION_LongTermInstabilityTrend.prj Remove

CA_PRECIPITATION_LongTermInstabilityTrend.shp Remove

CA_PRECIPITATION_LongTermInstabilityTrend.shx Remove

Your upload has started

Select the charset or leave default

UTF-8/Unicode

Clear Upload files

Permissions

Who can view it?

☒ Anyone

The following users:

Choose users...

The following groups:

Choose groups...

Who can download it?

Who can change metadata for it?

Who can edit data for this layer?

Who can edit styles for this layer?

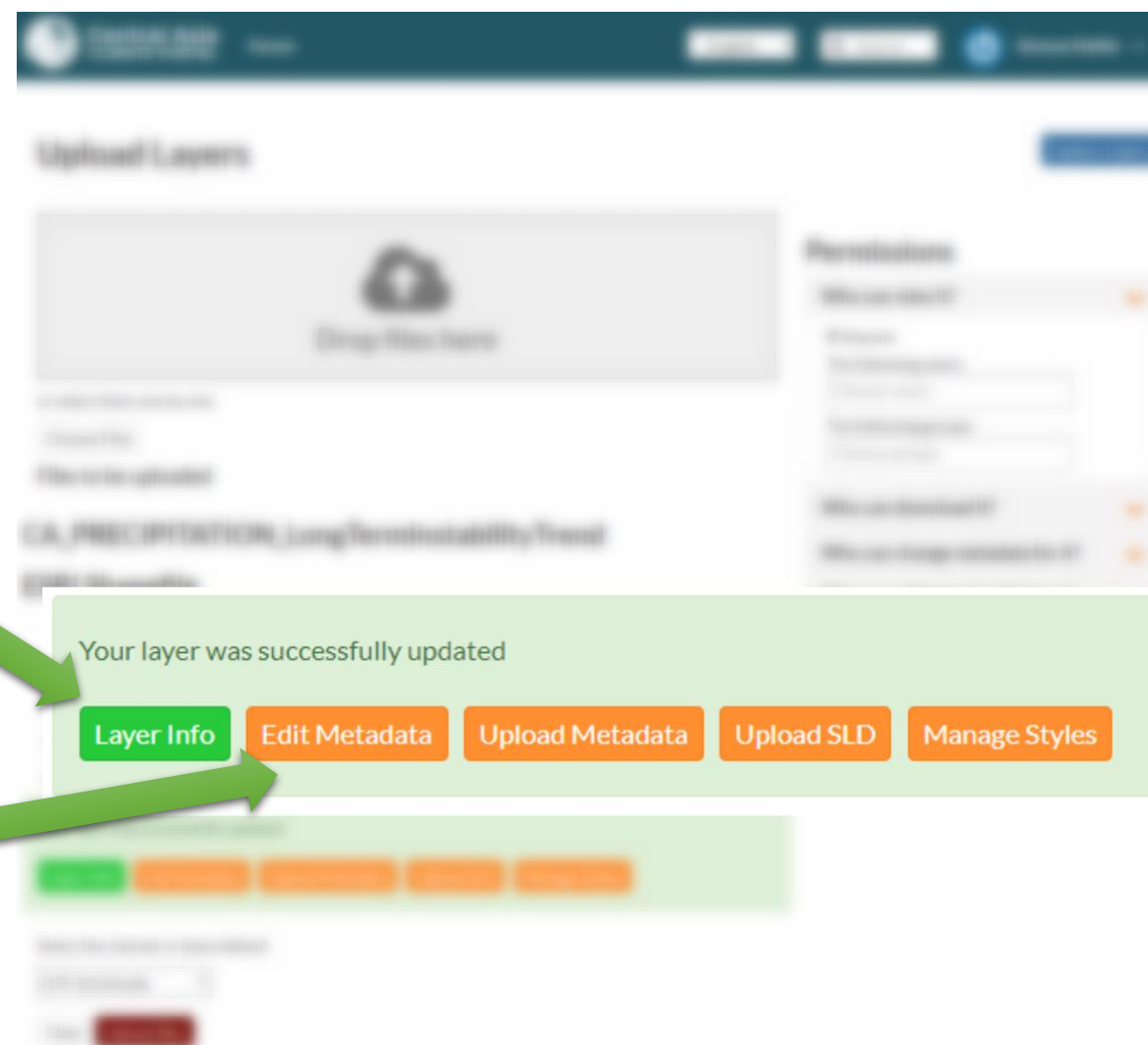
Who can manage it? (update, delete, change permissions, publish/unpublish it)

DISPLAY/CUSTOMIZE METADATA

After uploading of data it is possible

1. Display later info

2. Edit metadata



CACIP

SHAPEFILE: uploading geographical data

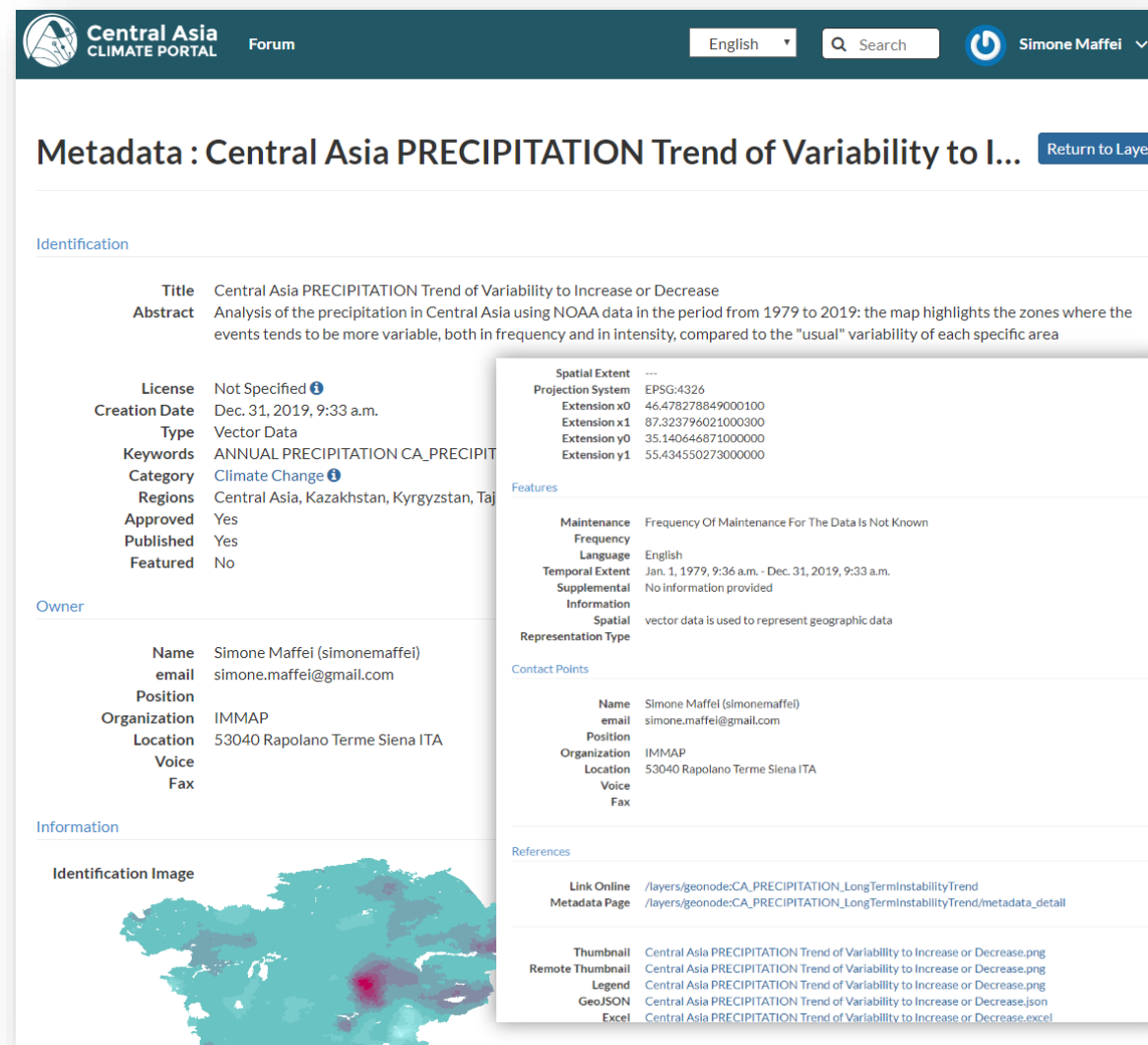
4

DISPLAY LAYER INFO

After uploading of data it is possible

the set of metadata provides full information about the layer:

- Identification of the layer (title, abstract, license, type, topic, geographical coverage, ..
- Owner information
- Extents
- Specific detail about maintenance, language, temporal extents, ...
- Contact points and references



The screenshot shows the metadata page for a layer titled "Central Asia PRECIPITATION Trend of Variability to Increase or Decrease". The page is organized into several sections:

- Identification:** Contains the title, abstract, license (Not Specified), creation date (Dec. 31, 2019, 9:33 a.m.), type (Vector Data), keywords (ANNUAL PRECIPITATION CA_PRECIPITATION), category (Climate Change), regions (Central Asia, Kazakhstan, Kyrgyzstan, Tajikistan), approved status (Yes), published status (Yes), and featured status (No).
- Owner:** Lists the owner's name (Simone Maffei), email (simone.maffei@gmail.com), position (IMMAP), organization (IMMAP), location (53040 Rapolano Terme Siena ITA), voice, and fax.
- Information:** Includes an identification image showing a map of Central Asia with precipitation trends.
- Features:** Details the spatial extent (EPSG:4326), projection system, and various extensions (x0, x1, y0, y1). It also lists maintenance frequency, language (English), temporal extent (Jan. 1, 1979, 9:36 a.m. - Dec. 31, 2019, 9:33 a.m.), and supplemental information (No information provided).
- Contact Points:** Provides contact information for Simone Maffei, including name, email, position, organization, location, voice, and fax.
- References:** Lists online links to the layer and metadata page, as well as thumbnails and legends for the data.

CACIP

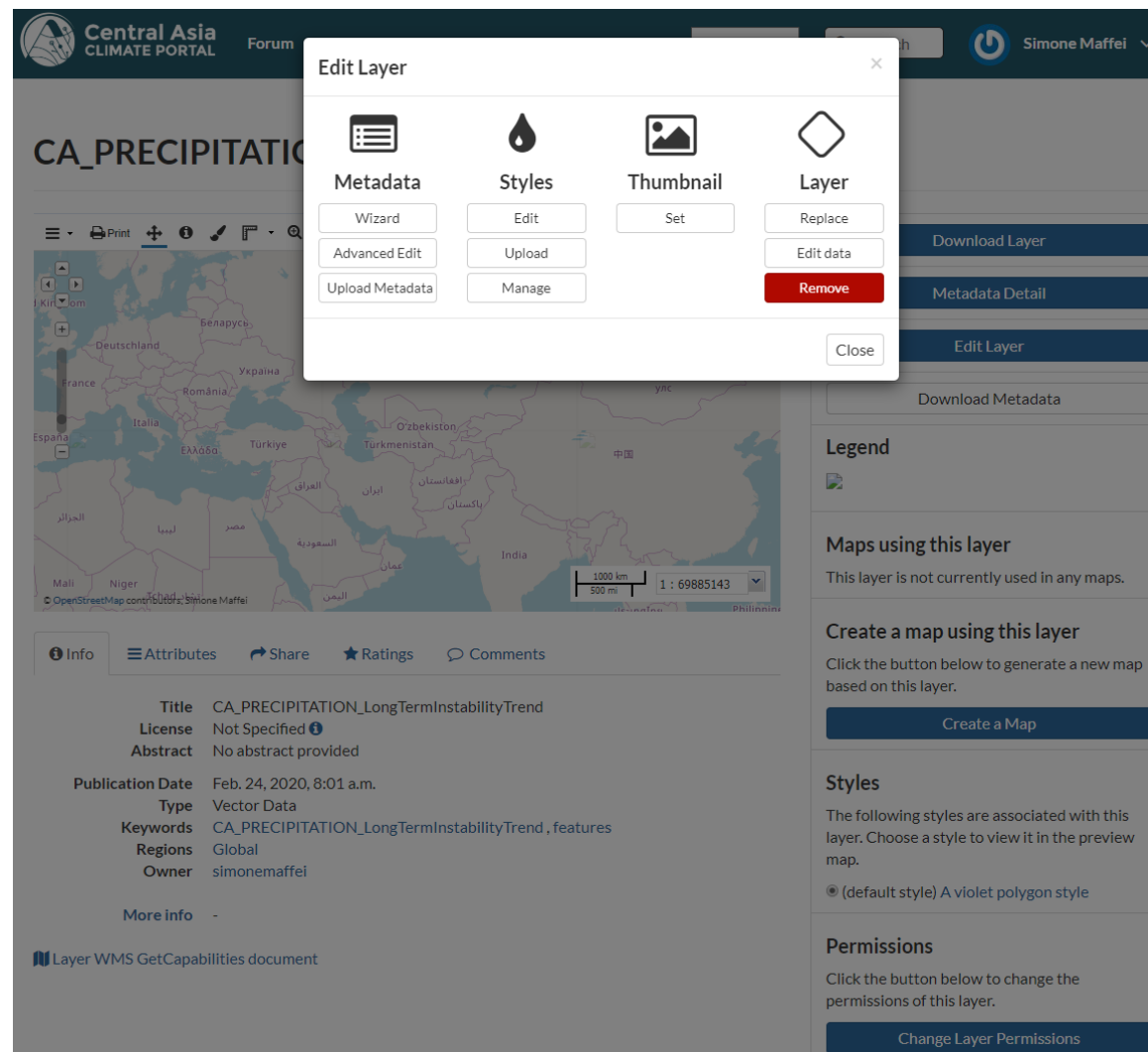
SHAPEFILE: uploading geographical data

5

EDIT METADATA

The information linked to each layer can be customized to allow the final users to fully understand the contents of each layer, process of creation, the quality, etc. It is possible to:

- use a wizard to be guided in the customization process
- use direct editing tools (for advanced users)
- embed predefined style
- etc.



Central Asia
CLIMATE PORTAL

Forum

Simone Maffei

CA_PRECIPITATION

Print

Info

Layers

Metadata

Styles

Thumbnail

Layer

Wizard

Advanced Edit

Upload Metadata

Edit

Upload

Manage

Set

Replace

Edit data

Remove

Close

Download Layer

Metadata Detail

Edit Layer

Download Metadata

Legend

Maps using this layer

This layer is not currently used in any maps.

Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

Styles

The following styles are associated with this layer. Choose a style to view it in the preview map.

(default style) A violet polygon style

Permissions

Click the button below to change the permissions of this layer.

Change Layer Permissions

Title	CA_PRECIPITATION_LongTermInstabilityTrend
License	Not Specified
Abstract	No abstract provided
Publication Date	Feb. 24, 2020, 8:01 a.m.
Type	Vector Data
Keywords	CA_PRECIPITATION_LongTermInstabilityTrend , features
Regions	Global
Owner	simonemaffei

More info

Layer WMS GetCapabilities document

CACIP

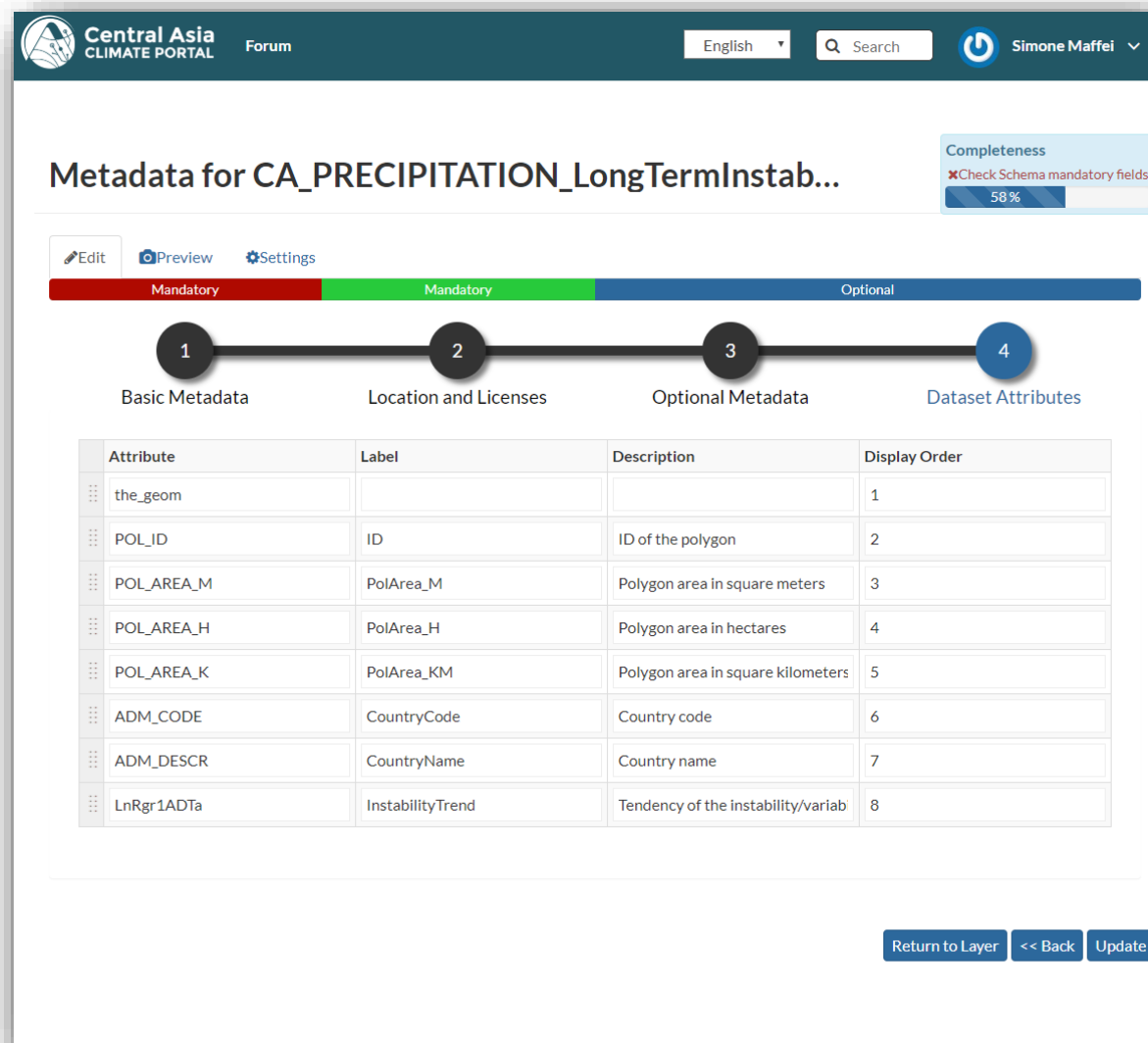
SHAPEFILE: uploading geographical data

6

USING THE WIZARD

The wizard guides the user to enter:

- all mandatory information
- optional information



Central Asia CLIMATE PORTAL Forum English Search Simone Maffei

Metadata for CA_PRECIPITATION_LongTermInstab... Completeness: 58% (Check Schema mandatory fields)

Edit Preview Settings

Mandatory Mandatory Optional

1 2 3 4

Basic Metadata Location and Licenses Optional Metadata Dataset Attributes

Attribute	Label	Description	Display Order
the_geom			1
POL_ID	ID	ID of the polygon	2
POL_AREA_M	PolArea_M	Polygon area in square meters	3
POL_AREA_H	PolArea_H	Polygon area in hectares	4
POL_AREA_K	PolArea_KM	Polygon area in square kilometers	5
ADM_CODE	CountryCode	Country code	6
ADM_DESCR	CountryName	Country name	7
LnRgr1ADTa	InstabilityTrend	Tendency of the instability/variab	8

Return to Layer << Back Update

CACIP

SHAPEFILE: uploading geographical data

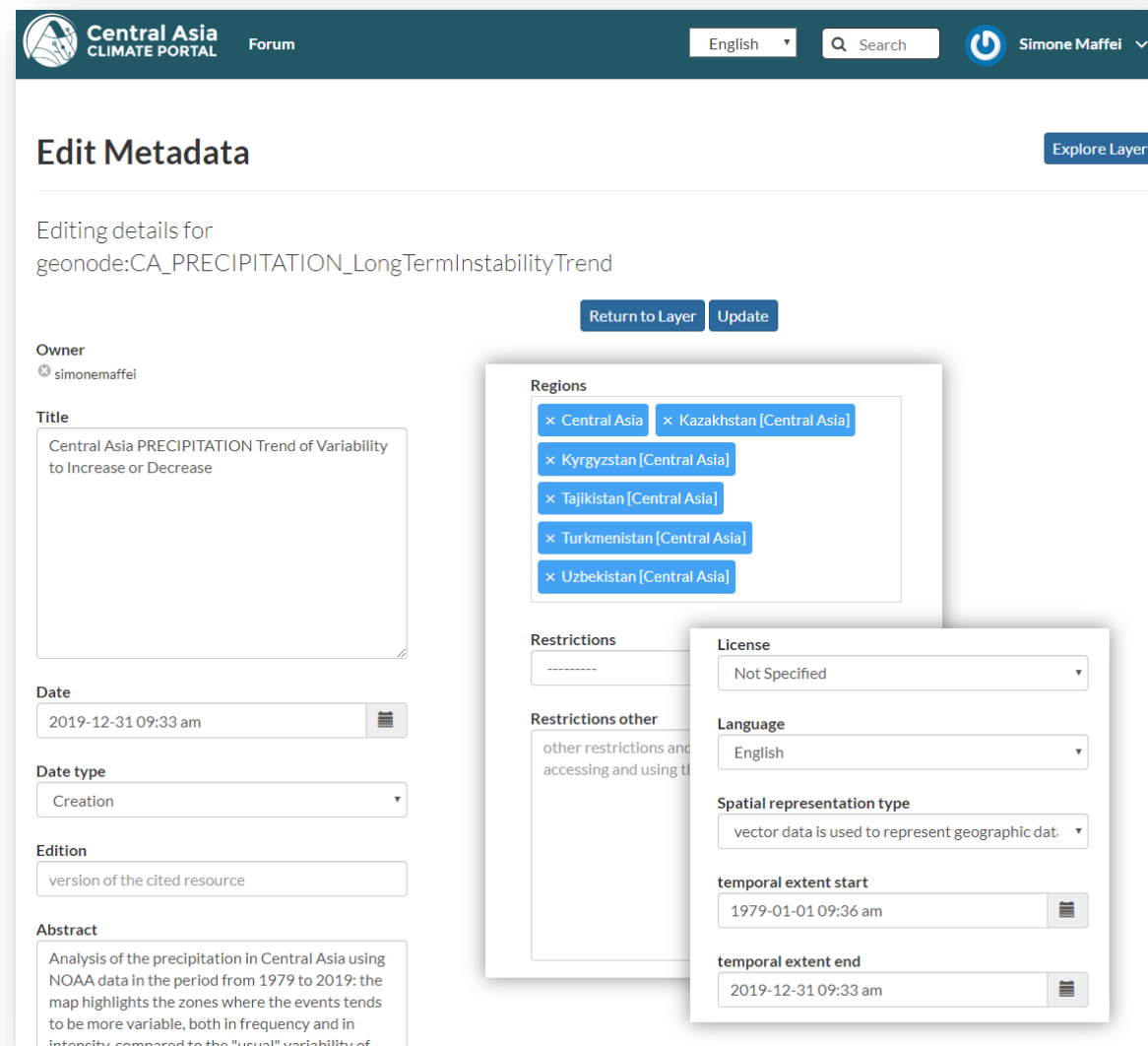
7

DIRECT EDITING

The direct editing form can be used to customize single metadata items

Category

<input checked="" type="checkbox"/> Climate Change	<input checked="" type="checkbox"/> Food Security
<input checked="" type="checkbox"/> Land Degradation	<input checked="" type="checkbox"/> Other
<input checked="" type="checkbox"/> Risk Assessment	<input checked="" type="checkbox"/> Sustainable Agroecosystems
<input checked="" type="checkbox"/> Water Management	



Edit Metadata [Explore Layers](#)

Editing details for
geonode:CA_PRECIPITATION_LongTermInstabilityTrend

[Return to Layer](#) [Update](#)

Owner
simonemaffei

Title
Central Asia PRECIPITATION Trend of Variability to Increase or Decrease

Date
2019-12-31 09:33 am

Date type
Creation

Edition
version of the cited resource

Abstract
Analysis of the precipitation in Central Asia using NOAA data in the period from 1979 to 2019: the map highlights the zones where the events tends to be more variable, both in frequency and in intensity, compared to the "usual" variability of

Regions

- × Central Asia
- × Kazakhstan [Central Asia]
- × Kyrgyzstan [Central Asia]
- × Tajikistan [Central Asia]
- × Turkmenistan [Central Asia]
- × Uzbekistan [Central Asia]

Restrictions

Restrictions other
other restrictions and accessing and using ti

License
Not Specified

Language
English

Spatial representation type
vector data is used to represent geographic dat

temporal extent start
1979-01-01 09:36 am

temporal extent end
2019-12-31 09:33 am

CACIP

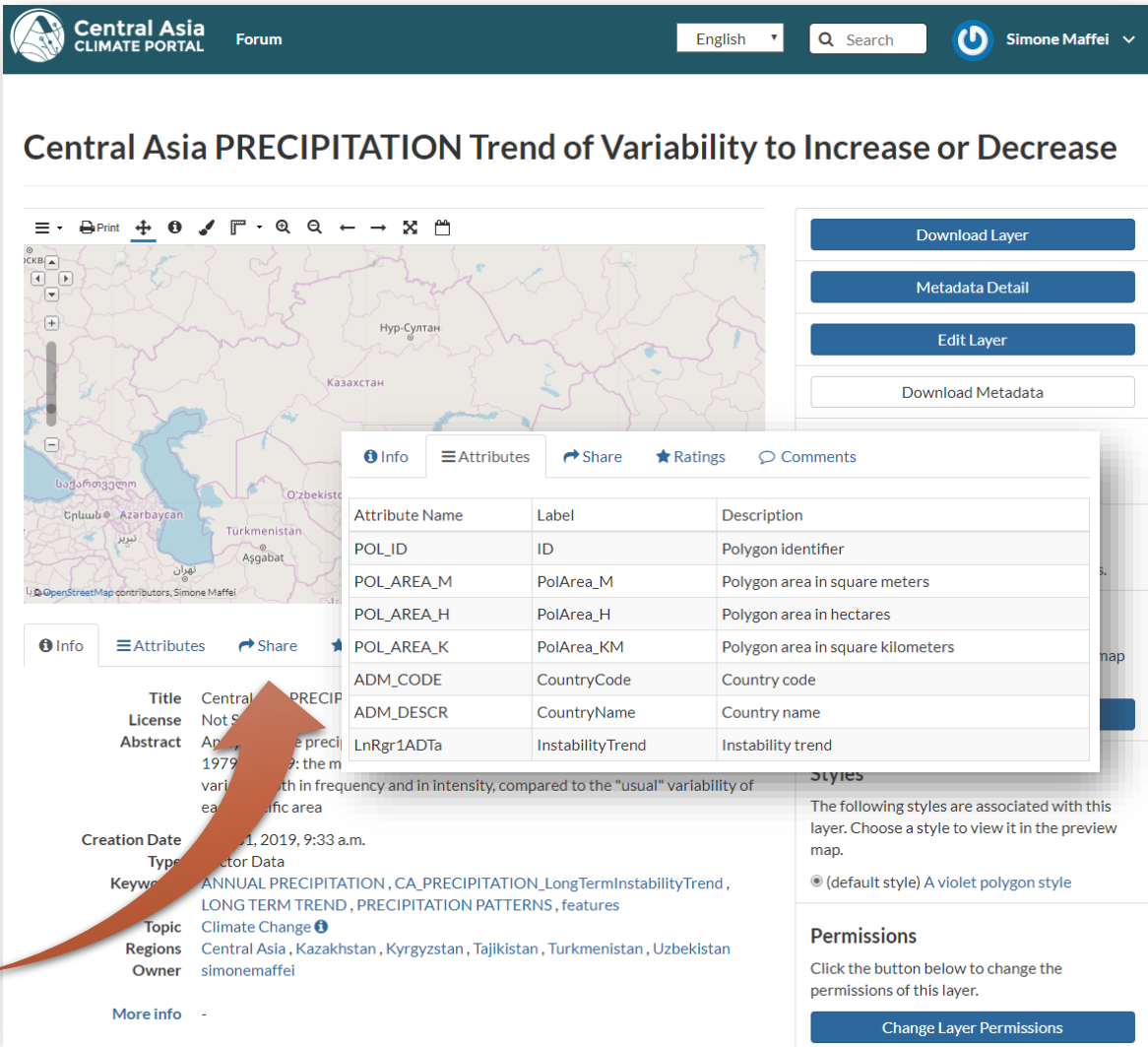
SHAPEFILE: uploading geographical data

8

FINALLY ... THE LAYER LOOKS LIKE THIS

After the uploading of the data, and the customization of the metadata, the layer can be used by all the CACIP visitors (*excluding specific permission policy*)

These tabs allow going inside to specific types of information



Central Asia CLIMATE PORTAL Forum English Search Simone Maffei

Central Asia PRECIPITATION Trend of Variability to Increase or Decrease

Download Layer Metadata Detail Edit Layer Download Metadata

Attribute Name	Label	Description
POL_ID	ID	Polygon identifier
POL_AREA_M	PolArea_M	Polygon area in square meters
POL_AREA_H	PolArea_H	Polygon area in hectares
POL_AREA_K	PolArea_KM	Polygon area in square kilometers
ADM_CODE	CountryCode	Country code
ADM_DESCR	CountryName	Country name
LnRgr1ADTa	InstabilityTrend	Instability trend

Info Attributes Share Ratings Comments

Title Central Asia PRECIPITATION
License Not Specified
Abstract Annual precipitation trend; the map shows the variability in frequency and in intensity, compared to the "usual" variability of each specific area.
Creation Date 2019, 9:33 a.m.
Type Vector Data
Keywords ANNUAL PRECIPITATION , CA_PRECIPITATION_LongTermInstabilityTrend , LONG TERM TREND , PRECIPITATION PATTERNS , features
Topic Climate Change
Regions Central Asia , Kazakhstan , Kyrgyzstan , Tajikistan , Turkmenistan , Uzbekistan
Owner simonemaffei
More info

Styles
The following styles are associated with this layer. Choose a style to view it in the preview map.
• (default style) A violet polygon style

Permissions
Click the button below to change the permissions of this layer.
Change Layer Permissions

CACIP

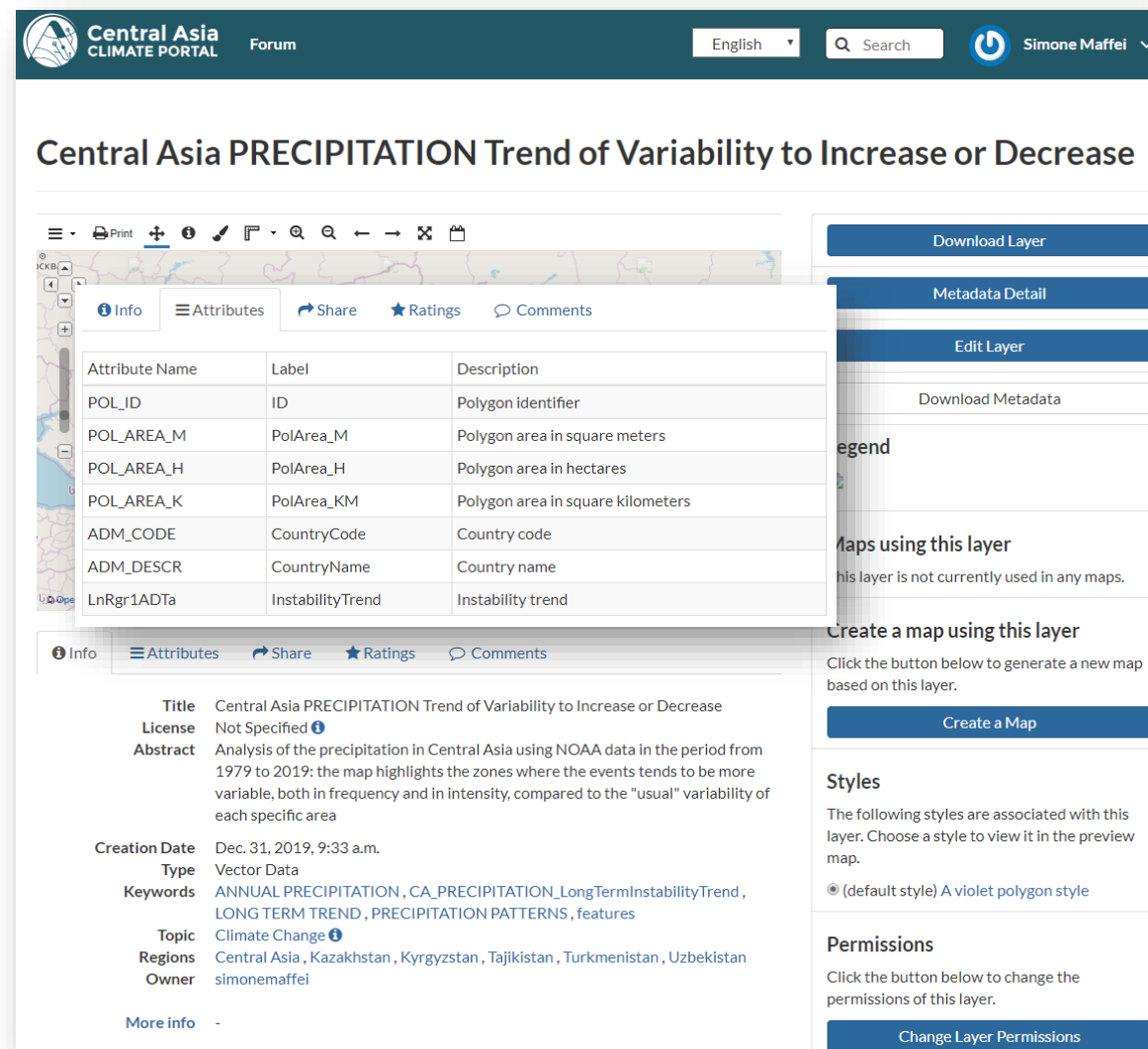
SHAPEFILE: uploading geographical data

9

**FINALLY ...
THE LAYER LOOKS LIKE THIS**

The different tabs shows:

- general info
- the list of attributes



Central Asia PRECIPITATION Trend of Variability to Increase or Decrease

Download Layer

Metadata Detail

Edit Layer

Download Metadata

Legend

Maps using this layer

Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

Styles

The following styles are associated with this layer. Choose a style to view it in the preview map.

(default style) A violet polygon style

Permissions

Click the button below to change the permissions of this layer.

Change Layer Permissions

Attribute Name	Label	Description
POL_ID	ID	Polygon identifier
POL_AREA_M	PolArea_M	Polygon area in square meters
POL_AREA_H	PolArea_H	Polygon area in hectares
POL_AREA_K	PolArea_KM	Polygon area in square kilometers
ADM_CODE	CountryCode	Country code
ADM_DESCR	CountryName	Country name
LnRgr1ADTa	InstabilityTrend	Instability trend

Info

Title Central Asia PRECIPITATION Trend of Variability to Increase or Decrease

License Not Specified

Abstract Analysis of the precipitation in Central Asia using NOAA data in the period from 1979 to 2019; the map highlights the zones where the events tends to be more variable, both in frequency and in intensity, compared to the "usual" variability of each specific area

Creation Date Dec. 31, 2019, 9:33 a.m.

Type Vector Data

Keywords ANNUAL PRECIPITATION , CA_PRECIPITATION_LongTermInstabilityTrend , LONG TERM TREND , PRECIPITATION PATTERNS , features

Topic Climate Change

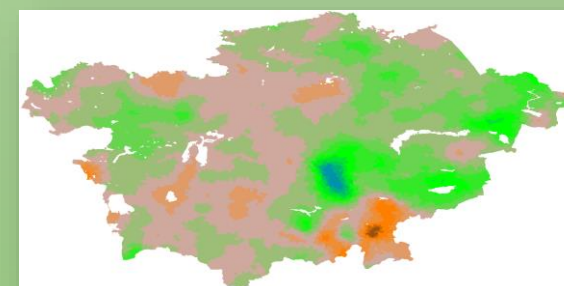
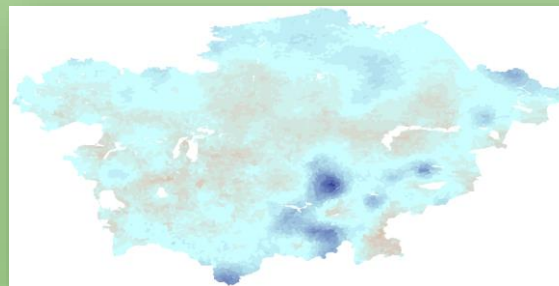
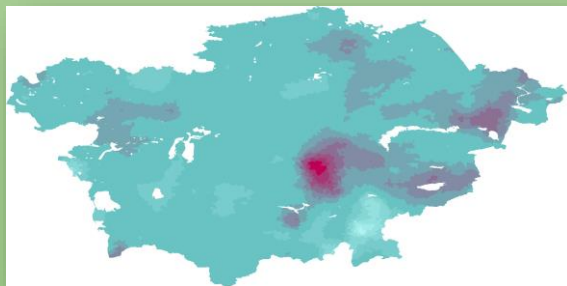
Regions Central Asia , Kazakhstan , Kyrgyzstan , Tajikistan , Turkmenistan , Uzbekistan

Owner simonemaffei

More info -

CACIP Uploading geographical data

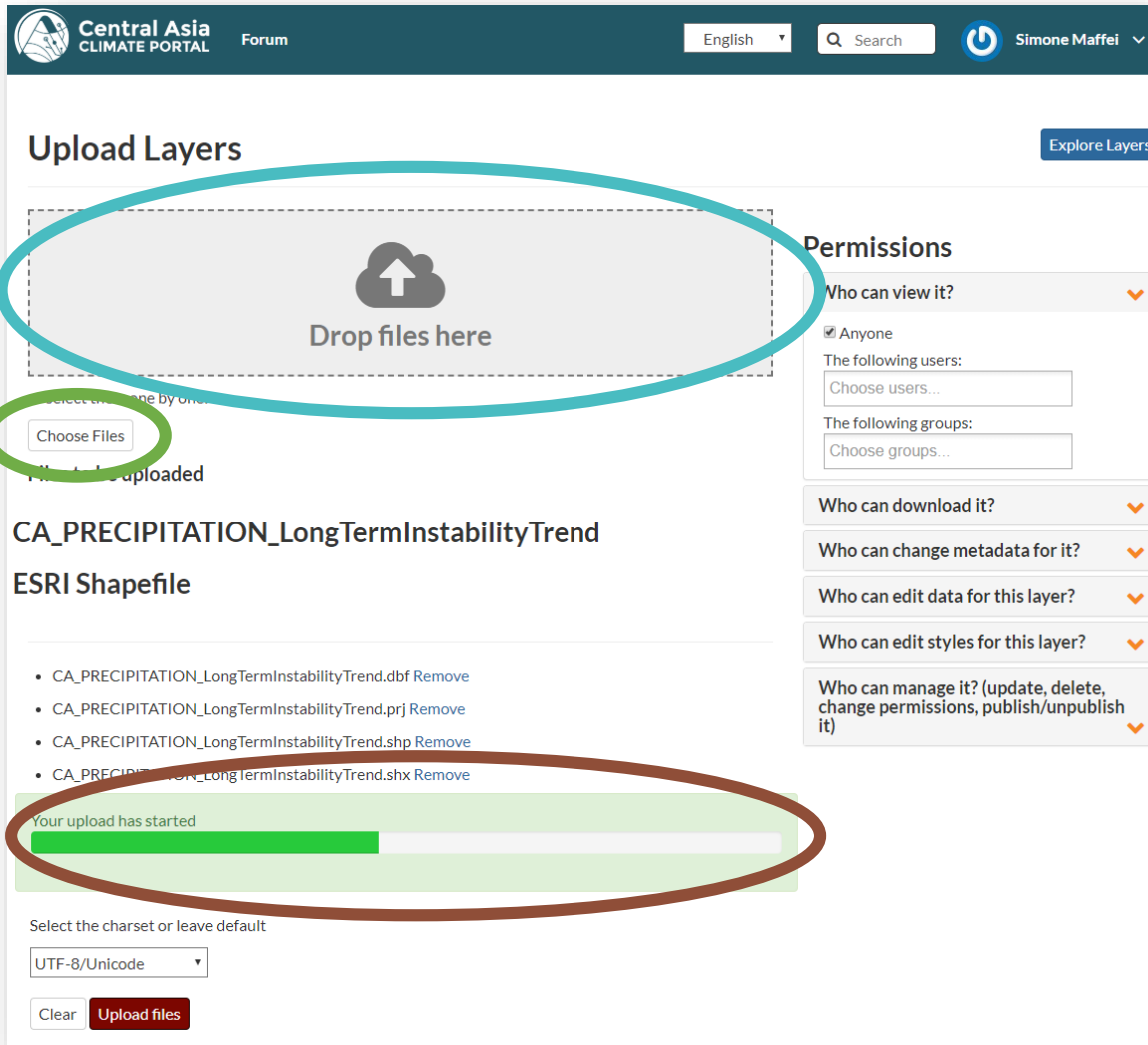
MANUAL UPLOAD OF GEOTIFF DATA & METADATA CUSTOMIZATION



UPLOAD FILES

Uploading follows the same steps as shapefile:

- selection or dropping of the files to be uploaded
- run of uploading task by pressing “upload files”
- editing of metadata or using the metadata wizard, or directly setting the single metadata items in advanced mode



Central Asia
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Upload Layers

Explore Layers

Drop files here

Choose Files

CA_PRECIPITATION_LongTermInstabilityTrend

ESRI Shapefile

- CA_PRECIPITATION_LongTermInstabilityTrend.dbf Remove
- CA_PRECIPITATION_LongTermInstabilityTrend.prj Remove
- CA_PRECIPITATION_LongTermInstabilityTrend.shp Remove
- CA_PRECIPITATION_LongTermInstabilityTrend.shx Remove

Your upload has started

Select the charset or leave default

UTF-8/Unicode

Clear Upload files

Permissions

Who can view it?

☒ Anyone

The following users:

Choose users...

The following groups:

Choose groups...

Who can download it?

Who can change metadata for it?

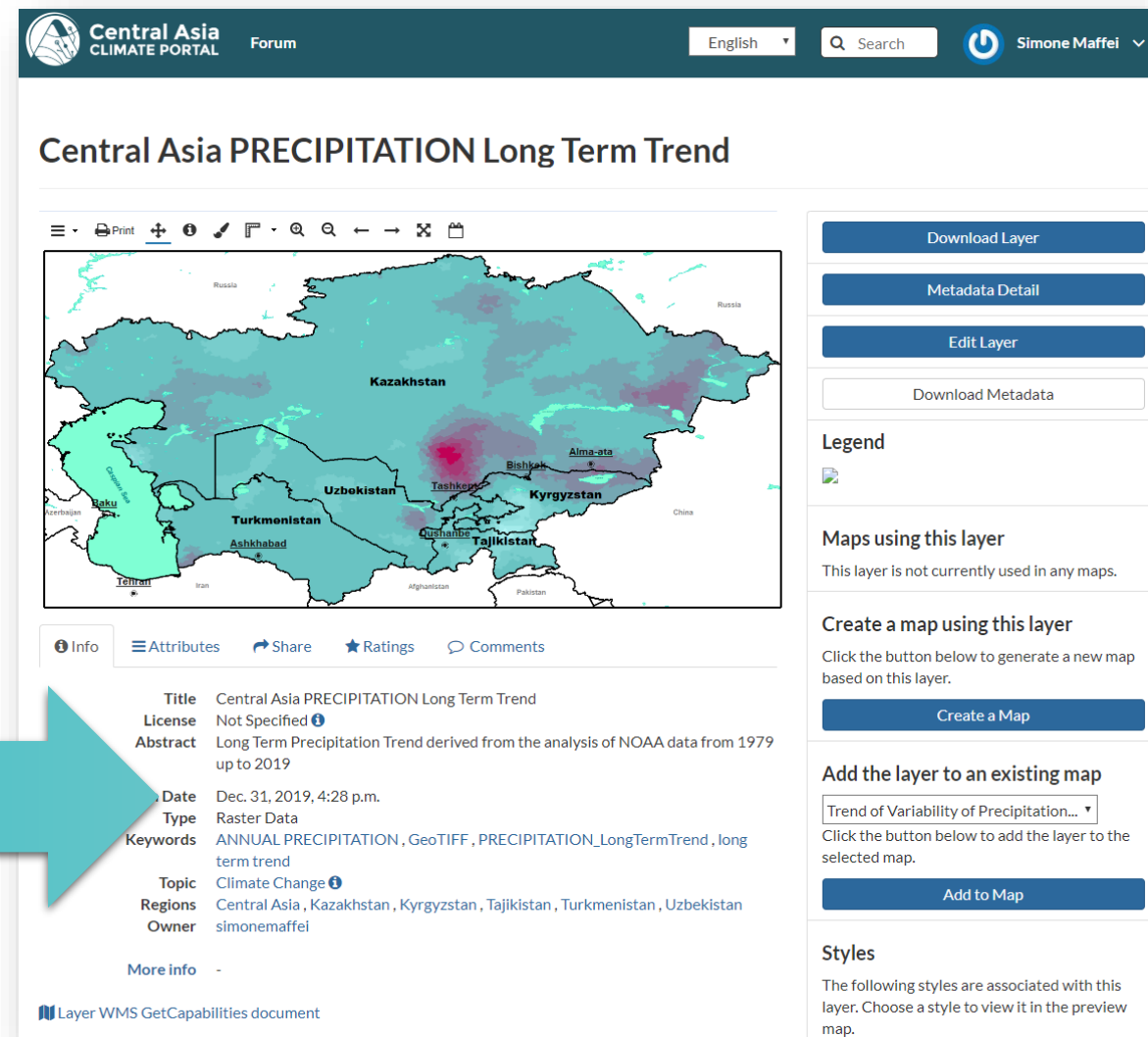
Who can edit data for this layer?

Who can edit styles for this layer?

Who can manage it? (update, delete, change permissions, publish/unpublish it)

GeoTIFF Layer

The management of the metadata of raster (in this case GeoTIFF data) is similar as the shapefiles



Central Asia CLIMATE PORTAL Forum English Search Simone Maffei

Central Asia PRECIPITATION Long Term Trend

Download Layer Metadata Detail Edit Layer Download Metadata

Legend

Maps using this layer
This layer is not currently used in any maps.

Create a map using this layer
Click the button below to generate a new map based on this layer.
Create a Map

Add the layer to an existing map
Trend of Variability of Precipitation...
Click the button below to add the layer to the selected map.
Add to Map

Styles
The following styles are associated with this layer. Choose a style to view it in the preview map.

Info Attributes Share Ratings Comments

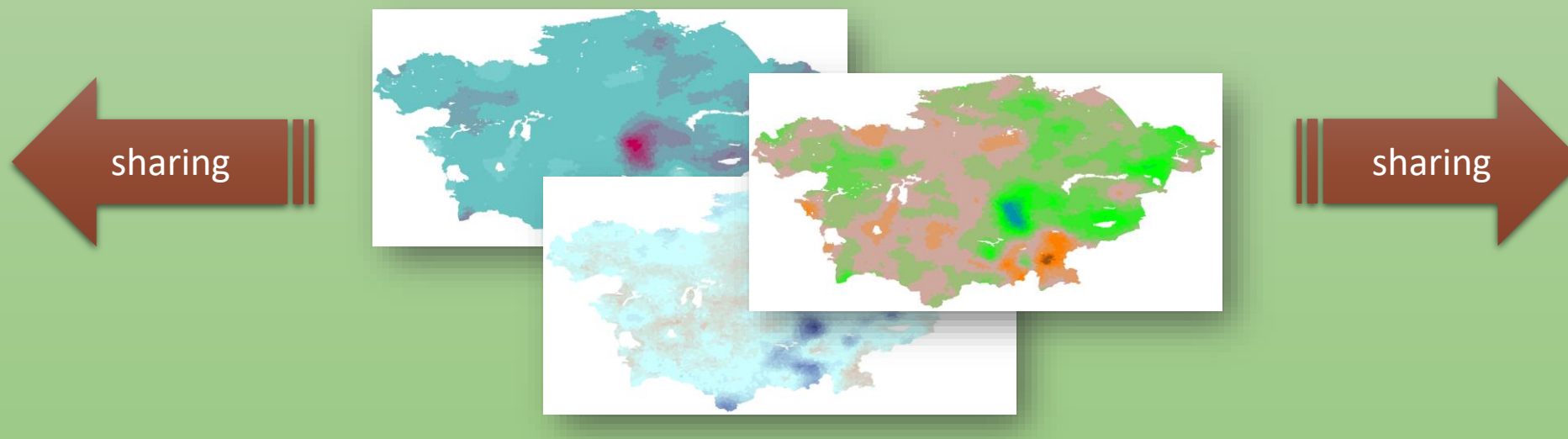
Title Central Asia PRECIPITATION Long Term Trend
License Not Specified
Abstract Long Term Precipitation Trend derived from the analysis of NOAA data from 1979 up to 2019
Date Dec. 31, 2019, 4:28 p.m.
Type Raster Data
Keywords ANNUAL PRECIPITATION , GeoTIFF , PRECIPITATION_LongTermTrend , long term trend
Topic Climate Change
Regions Central Asia , Kazakhstan , Kyrgyzstan , Tajikistan , Turkmenistan , Uzbekistan
Owner simonemaffei
More info -

Layer WMS GetCapabilities document

CACIP

Downloading geographical data

SHARING INFORMATION



CACIP

Downloading data

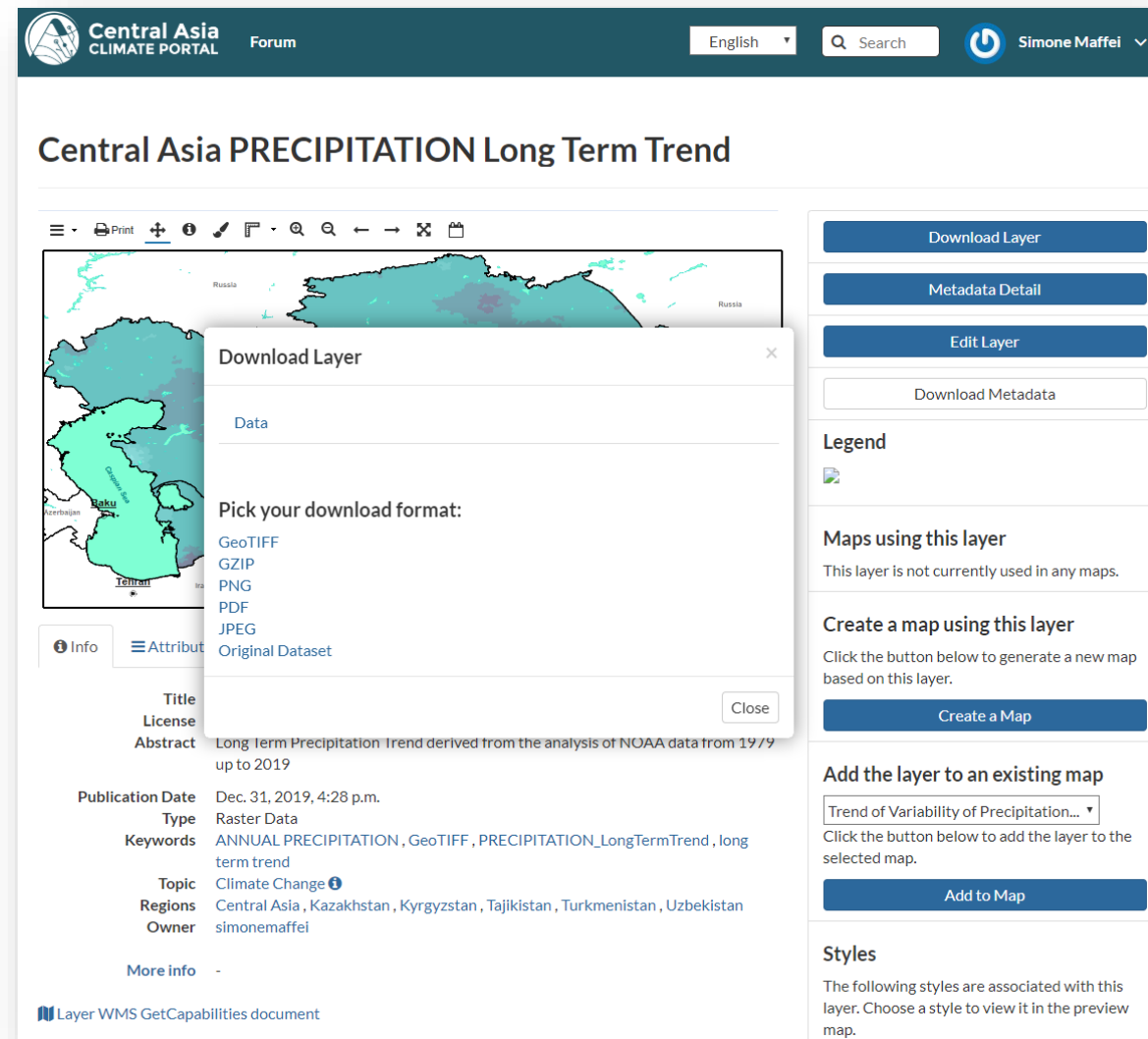
1

DOWNLOADING DATA

After the uploading of the data, the geographical data can be downloaded in the user computer *(excluding specific permission policy)*

Data can be downloaded:

- in the **original format** (the same of the uploaded files)
- in other standard formats (for this options it is necessary to set the style of visualization of the layer)



Central Asia CLIMATE PORTAL Forum English Search Simone Maffei

Central Asia PRECIPITATION Long Term Trend

Download Layer

Metadata Detail

Edit Layer

Download Metadata

Legend

Maps using this layer

This layer is not currently used in any maps.

Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

Add the layer to an existing map

Trend of Variability of Precipitation...

Click the button below to add the layer to the selected map.

Add to Map

Styles

The following styles are associated with this layer. Choose a style to view it in the preview map.

Download Layer

Data

Pick your download format:

GeoTIFF
GZIP
PNG
PDF
JPEG
Original Dataset

Close

Info

Attribut

Title

License

Abstract

Long Term Precipitation Trend derived from the analysis of NOAA data from 1979 up to 2019

Publication Date

Dec. 31, 2019, 4:28 p.m.

Type

Raster Data

Keywords

ANNUAL PRECIPITATION , GeoTIFF , PRECIPITATION_LongTermTrend , long term trend

Topic

Climate Change

Regions

Central Asia , Kazakhstan , Kyrgyzstan , Tajikistan , Turkmenistan , Uzbekistan

Owner

simonemaffei

More info

Layer WMS GetCapabilities document

CACIP

Downloading formats

2

VECTOR DATA CAN BE DOWNLOAD AS

GeoJSON	Excel
CSV	GML 3.1.1
GML 2.0	ZIPPED Shapefile
PNG	PDF
JPEG	Original Dataset

For some options it is necessary to set the style of visualization of the layer

RASTER DATA CAN BE DOWNLOAD AS

GeoTIFF	GZIP
PNG	PDF
JPEG	Original Dataset

For some options it is necessary to set the style of visualization of the layer



Science for resilient livelihoods in dry areas

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Get in Touch

Thank You

CACIP

COMING SOON

GET NOTIFIED

Py

Days

Hours

Minutes

Seconds