



Annex 16

Climate Patterns & Trends

Community-Based Agricultural Support Project 'plus'
(CASP+)
Tajikistan (TJK)



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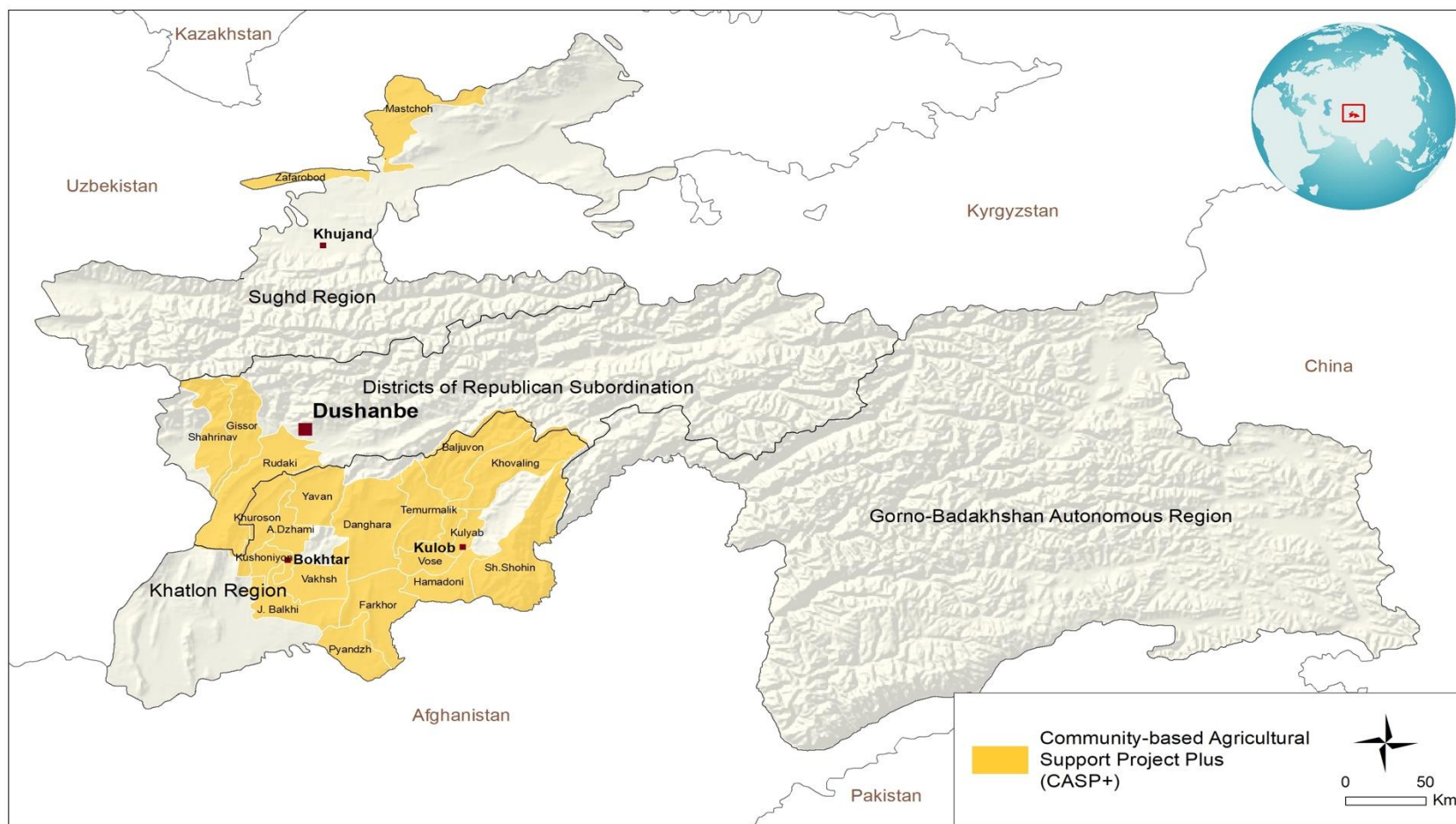
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Map of the Project CASP+ Project Area



Administrative boundaries in Tajikistan

Location

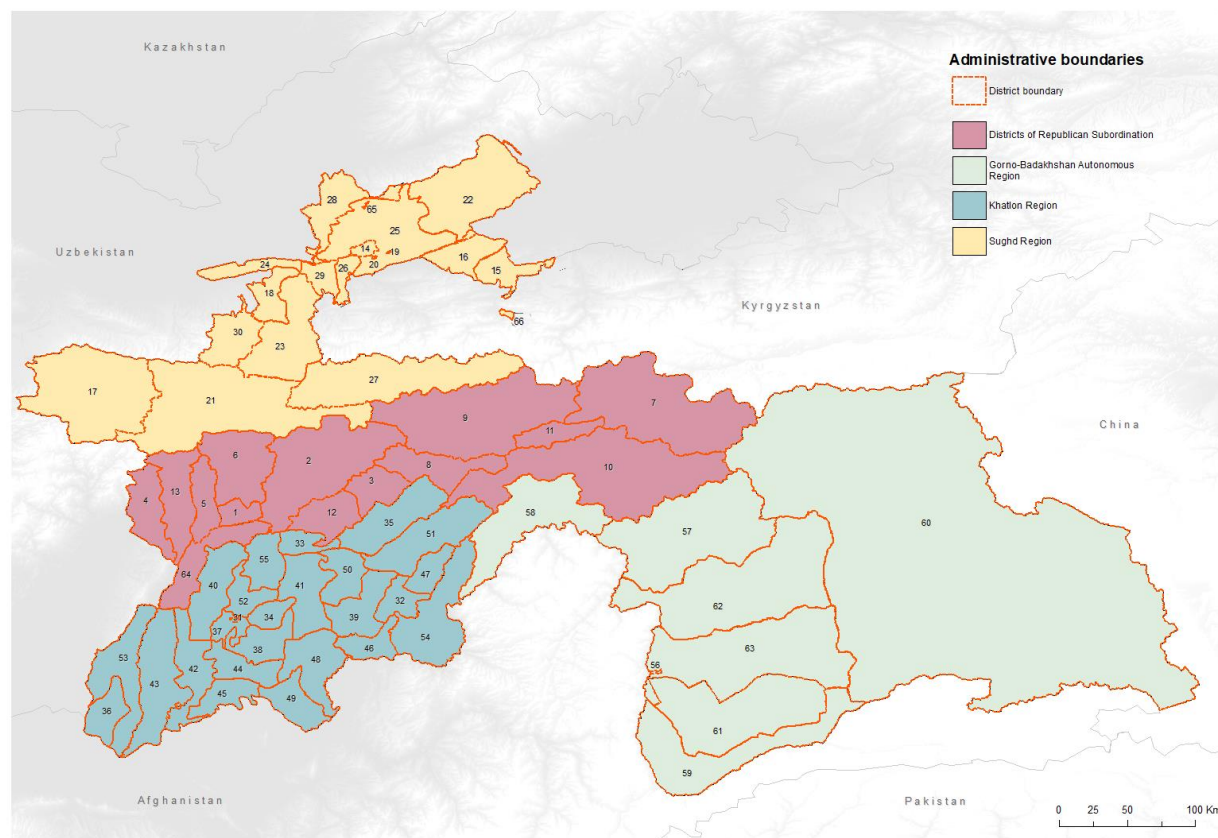
Tajikistan

Description

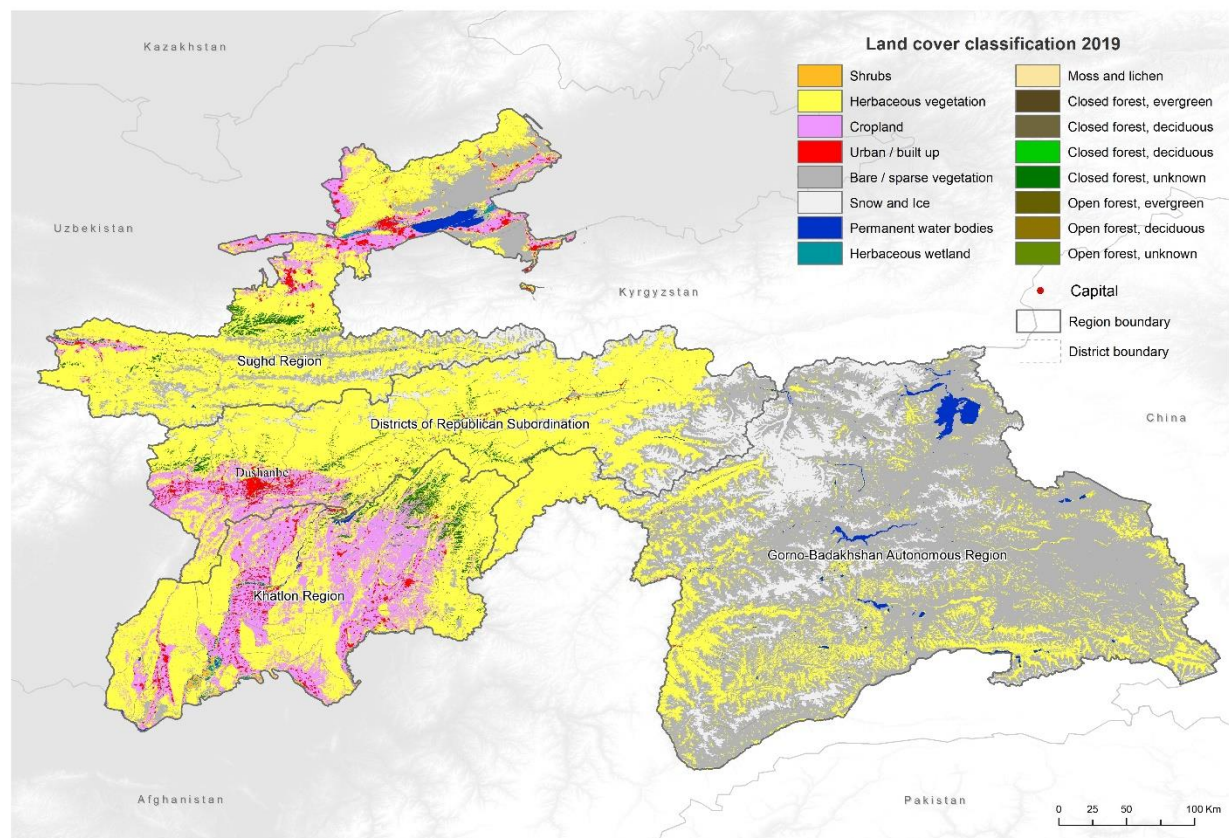
This map shows the administrative boundaries for Tajikistan. The districts has been labelled in the map by codes to simplify the representation in the map. The codes and their corresponding names of the districts are included in a table in Annex 2.

About the data

TBD



Land cover map of Tajikistan, 2019



Location

Tajikistan

Description

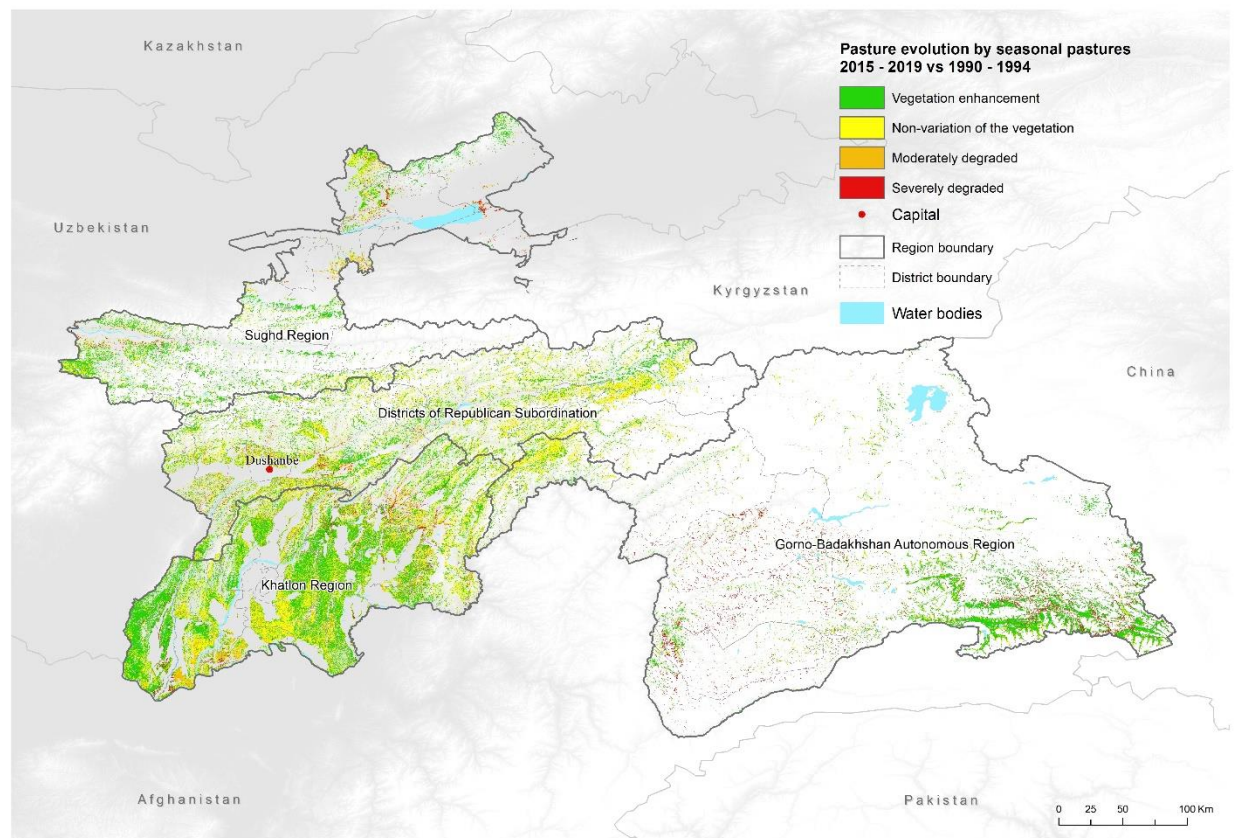
The land cover map shows the different biotype coverage identified in 2019 for Tajikistan.

Patterns

About the data

[Moderate Dynamic Land Cover 100m](#)

Pasture evolution by seasonal pastures (1990 – 1994 vs 2015 – 2019)



Location

Tajikistan

Description

The map shows the pasture evolution by seasonal pastures at 100m resolution between the two periods 1990-1994 and 2015-2019. The areas classified as grasslands in the Globeland product of 2000 and 2020 and located in not steep slopes (i.e., less than 25°) were selected as the pasture lands for the analysis.

Vegetation indices were considered (NDVI, EVI, SAVI, MSAVI) to estimate the pasture evolution taking into account the seasonality of pastures (winter, spring/autumn and summer) which are stratified by altitude.

The final pasture evolution product was obtained from the combination of all the vegetation index products, having all of them the same weight.

Patterns

The main trend is an increment of the vegetation vigour between 1990-94 and 2015-19 since almost half of the pasture lands have been enhanced according to Landsat observations. However, there are specific hotspots in which pastures have been moderately or severely degraded.

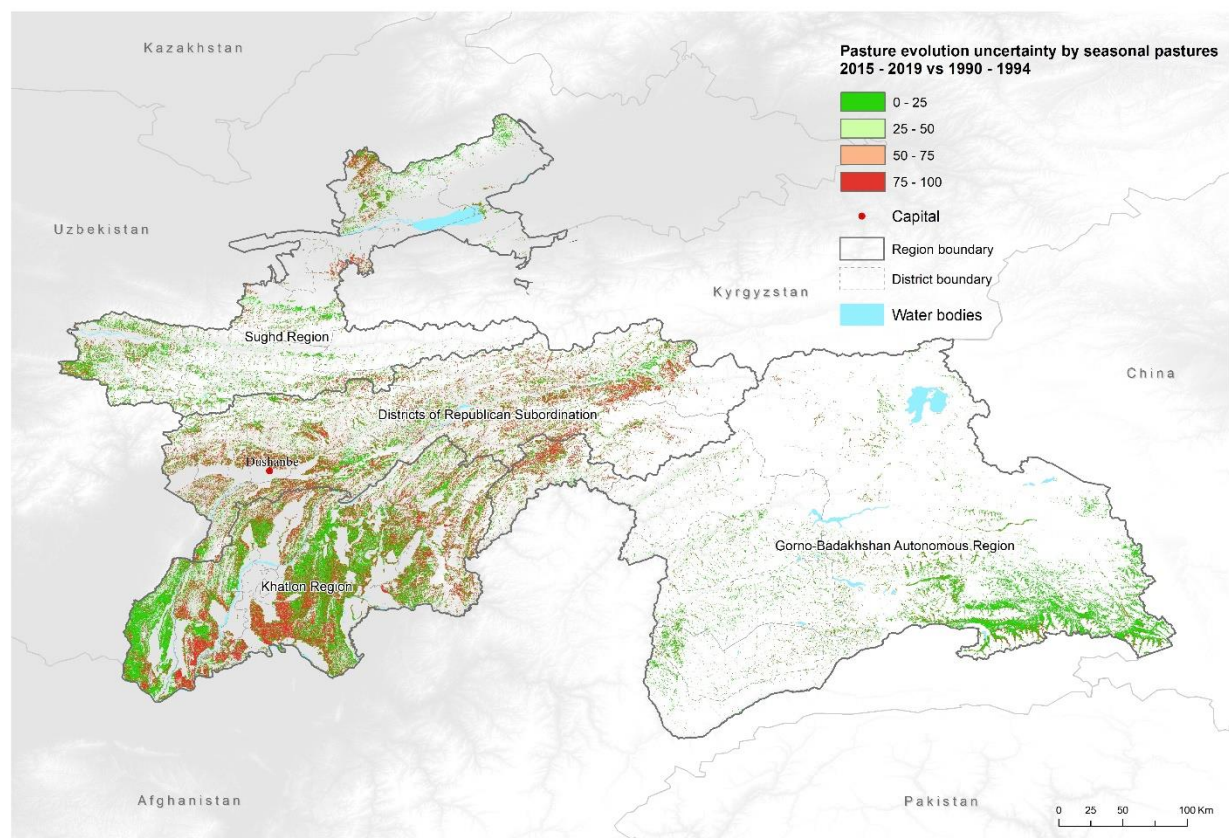
About the data

Prepared by EO4SD CR cluster

Inputs

- Monthly averages of spectral bands of Landsat-5 and Landsat-8 at 30 m
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Land cover [GlobeLand30](#) at 30m (2000 and 2020)

Pasture evolution uncertainty by seasonal pastures (1990 – 1994 vs 2015 – 2019)



Location

Tajikistan

Description

The map shows the pasture evolution uncertainty by seasonal pastures at 100m resolution between the two periods 1990-1994 and 2015-2019.

The uncertainty was based on the agreement of all the vegetation index products with the final product. Thus, when all the indices agree with the final product there is an associated uncertainty of 0% while when no index agree with the final product the uncertainty is 100%.

Patterns

Lowest and highest uncertainties of the pastures evolution product are the most frequent. The highest uncertainties are mainly concentrated in pastures with non-variation since most of the times two indices shown a degradation while the remaining two show an enhancement, giving the combination of such information a non-variation scenario. On the other hand, the lowest uncertainties were found mainly in those areas which the vegetation status increased or decreased clearly, being observed in all the indices.

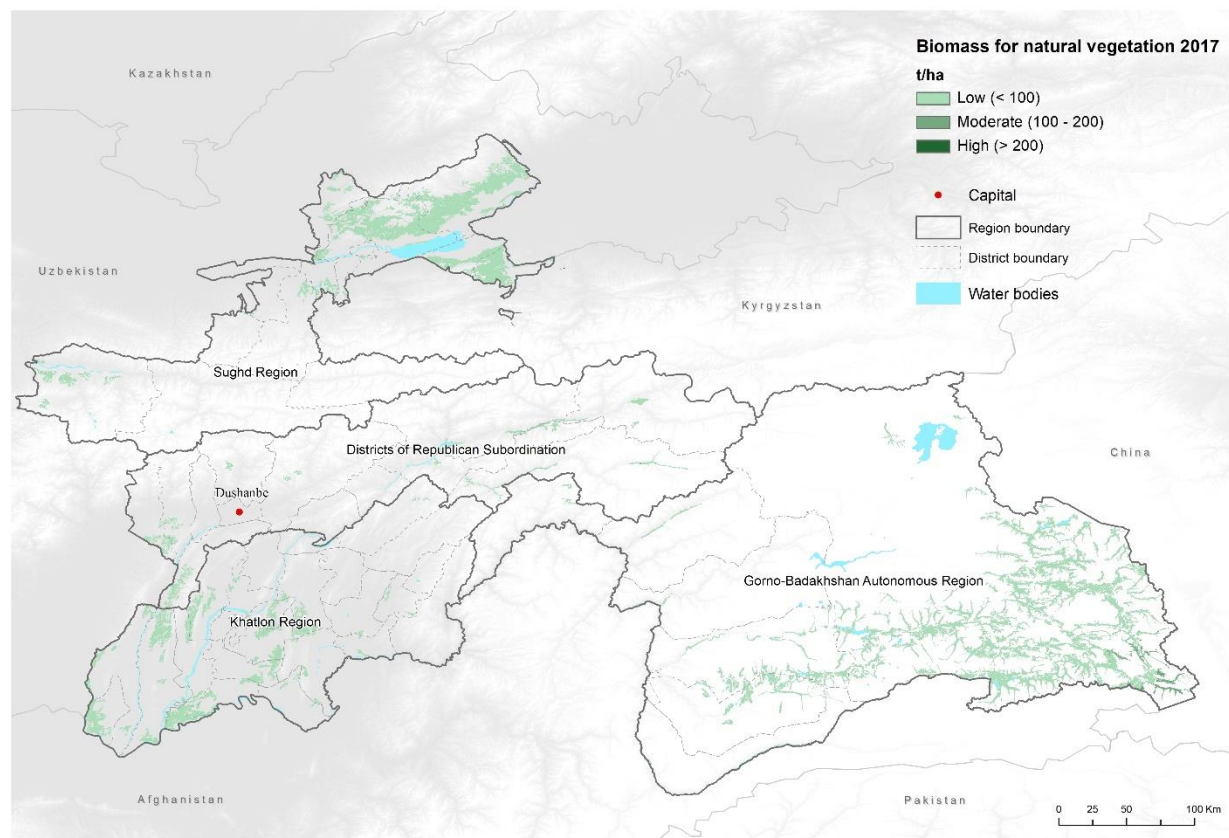
About the data

Prepared by EO4SD CR cluster

Inputs

- Monthly averages of spectral bands of Landsat-5 and Landsat-8 30 m
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)

Natural vegetation biomass 2017



Location

Tajikistan

Description

The map shows the aboveground biomass (AGB) at 100m resolution in 2017. AGB includes all living biomass above the soil including stem, stump, branches, bark, seeds and foliage, and it expressed in t/ha. AGB values have been filtered to natural vegetation cover and low slopes to avoid inherent errors to SAR satellite techniques.

Patterns

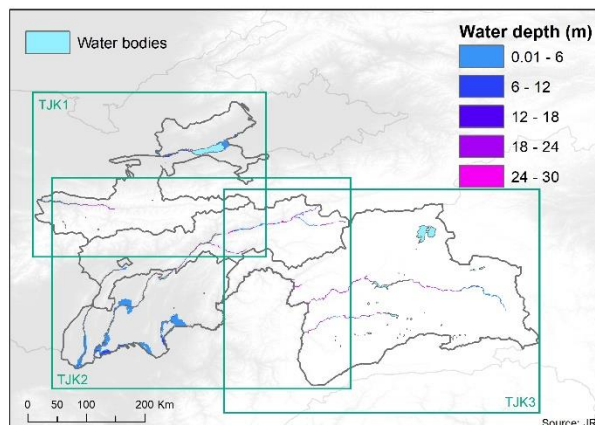
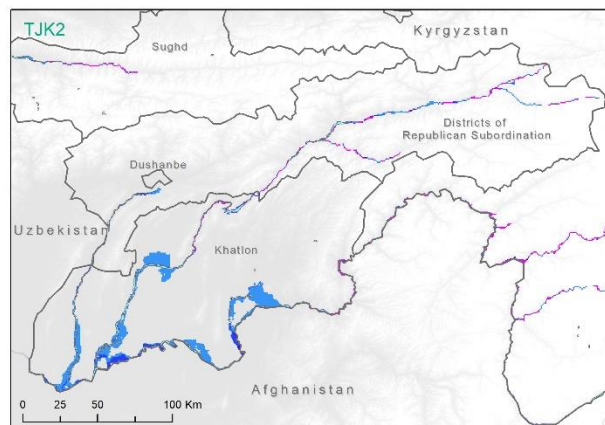
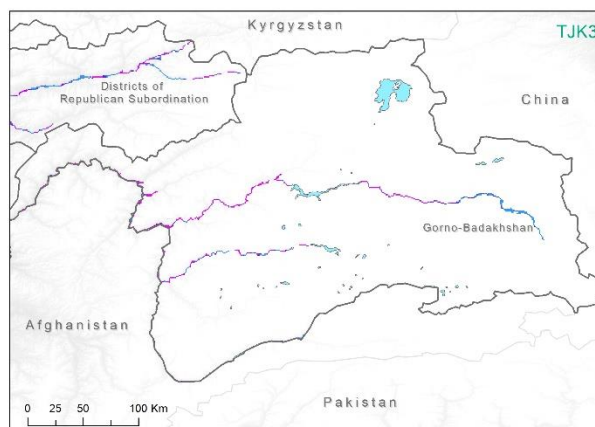
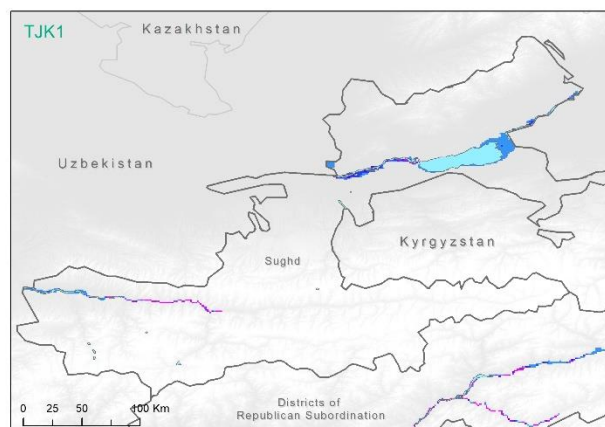
ABG is generally low (<100t/ha) across Tajikistan. ABG peaks (>200 t/ha) in small number of valleys in southeast Gorno-Badakhshan, with moderate ABG (100 – 200 t/ha) observed in southern and eastern Gorno-Badakhshan. Low ABG is observed in the northernmost areas of Sughd Region and centra and western Khatlon.

About the data

[ESA's Climate Change Initiative Biomass](#) at 100 m

Climate Hazards Summary: 1-in-100 fluvial flood hazard (JRC)

1-in-100 year return period fluvial flood hazard in Tajikistan (JRC)



Location

Tajikistan

Description

The fluvial flood hazard map (1 km grid) represents flood depth and extent for a 1-in-100 year return period event in Tajikistan.

Patterns

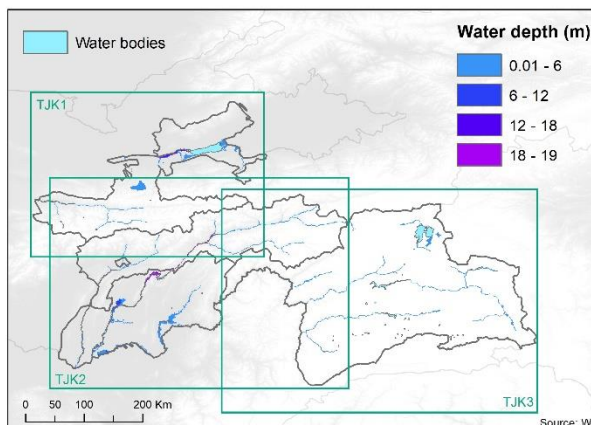
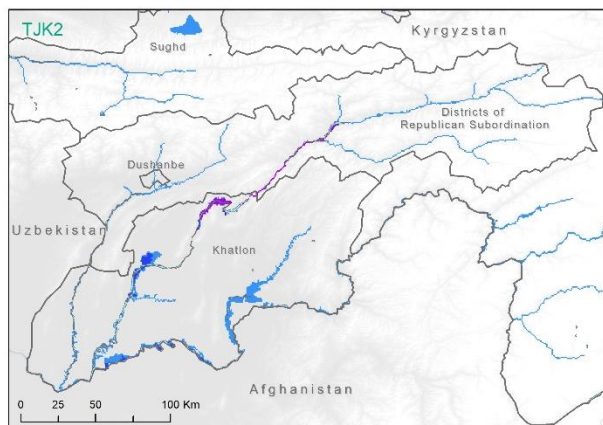
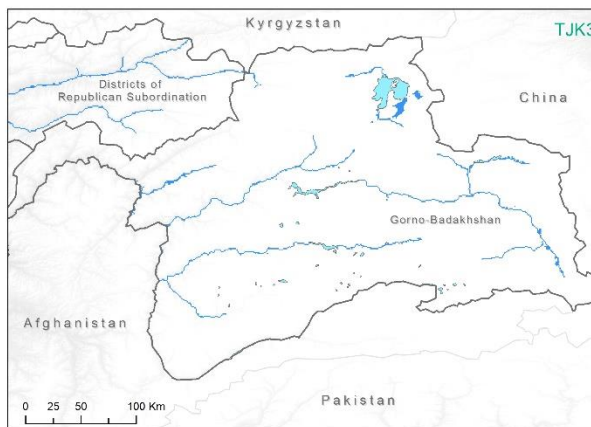
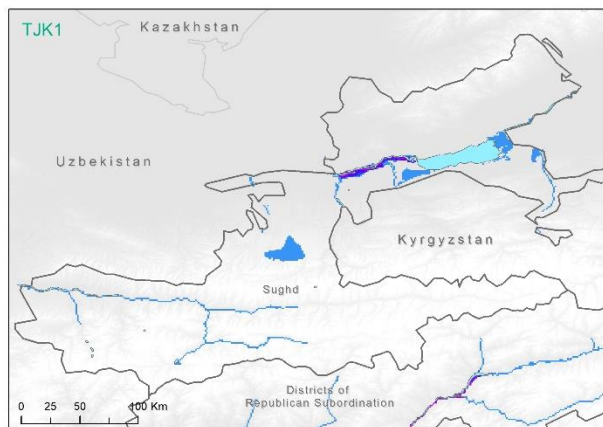
In Sughd Region, fluvial flood depth peaks along the upper Zeravshan River channel. Water depth up to 24m is also observed along the Syr Darya river channel downstream of the Kairakkum Reservoir, whereas lower flood depths (up to 6m) and are observed upstream. High flood depths are also observed in Gorno Badakhshan along the Gunt and Bartang rivers, and on the Vanch river on the border with Afghanistan. In the Districts of Republican Subordination, high flood depths (up to 30m) are observed along the upper Vakhsh and Obikhingou rivers each of which supply the Nurek Reservoir in Khatlon. In Khatlon region, flood depth up to 6m is observed along the lower Kofarnihon river north of the Afghanistan border, as well as along the Vakhsh river downstream of Nurek reservoir and along the Panj River, bordering Afghanistan.

About the data

[Flood hazard map of the World - 100-year return period](#). European Commission, Joint Research Centre (JRC).

Climate Hazards Summary: 1-in-100 fluvial flood hazard (WRI)

1-in-100 year return period fluvial flood hazard in Tajikistan (WRI)



Location

Tajikistan

Description

The fluvial flood hazard map (1 km grid) represents flood depth and extent for a 1-in-100 year return period event in Tajikistan.

Patterns

Overall, maximum flood depths recorded by WRI are lower than the JRC. In Sukhd region, flood depths up to 18m are observed on the Syr Darya river, downstream of Kairakkum reservoir. As well as flooding (up to 6m) in the northeast corner of the reservoir, flooding is observed in a larger area southwest of the reservoir, compared with JRC data. Flooding (up to 6m) is also recorded along the Vakhsh and Obikhingou rivers in Khatom, however the spatial extent of flooded area appears lower than JRC data. This is also true of flooded area adjacent to the Panj River, however WRI data show the river extending around 75km further north than JRC data.

About the data

[Aqueduct flood hazard map of the World - 100-year return period](#). World Resources Institute (WRI).

Climate Hazards Summary: Soil erosion rate at 100m for 2015 – 2019

Soil erosion rate at 100m for 2015 - 2019

Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m for the period 2015 to 2019. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Approximately 50% of Tajikistan experiences a low rate of soil loss (< 5 tn/ha/yr), notably in northern Sukhd region, southeast Gorno-Badakhshan, and southern Khatlon. The highest rate of soil loss is along an east-west belt in southern Sukhd (>100 tn/ha/yr).

Trends

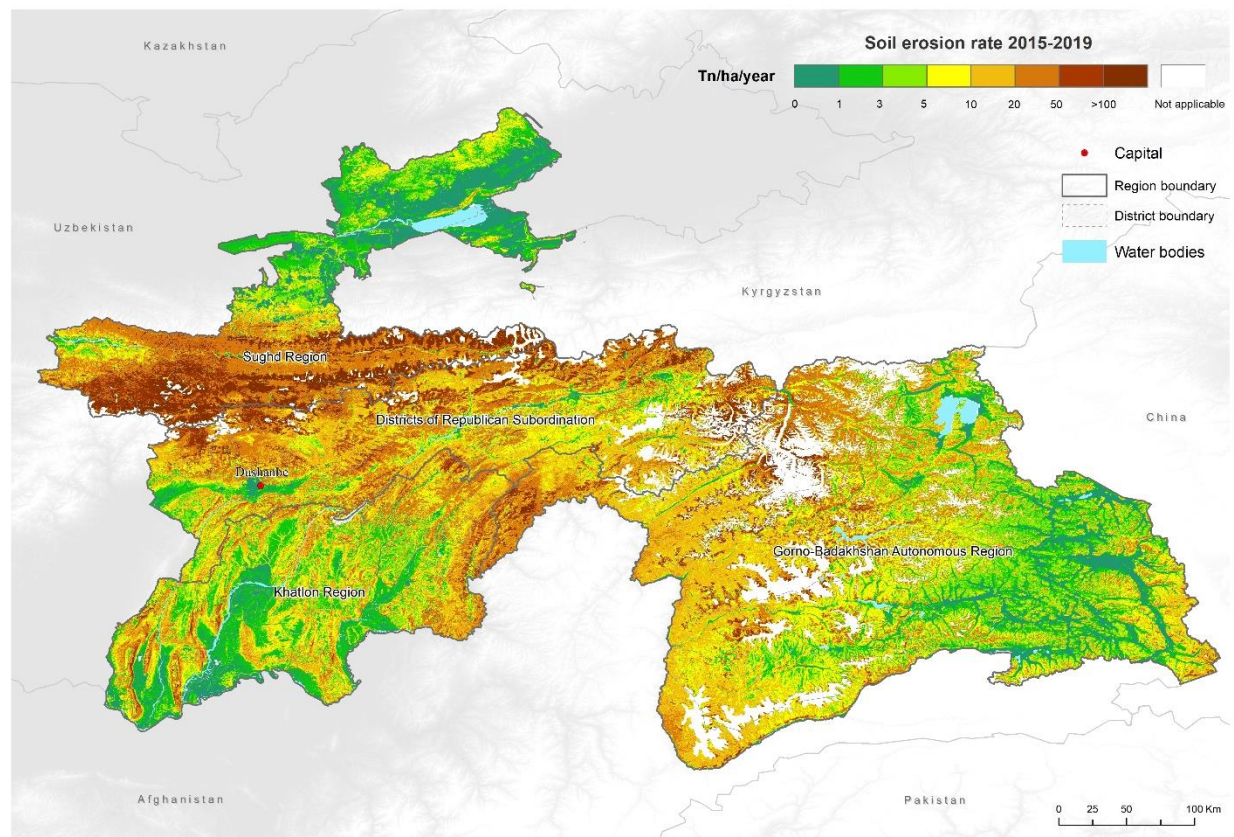
The rate of soil loss has slowed in southern Sukhd and northern Gorno-Badakhshan, though the areas continued to experience the highest rates in Tajikistan (>50 tn/ha/yr). A higher rate of soil loss (10 to 50 tn/ha/yr) is observed in extreme southeast and far west Gorno-Badakhshan, as well as in northern Sukhd.

About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

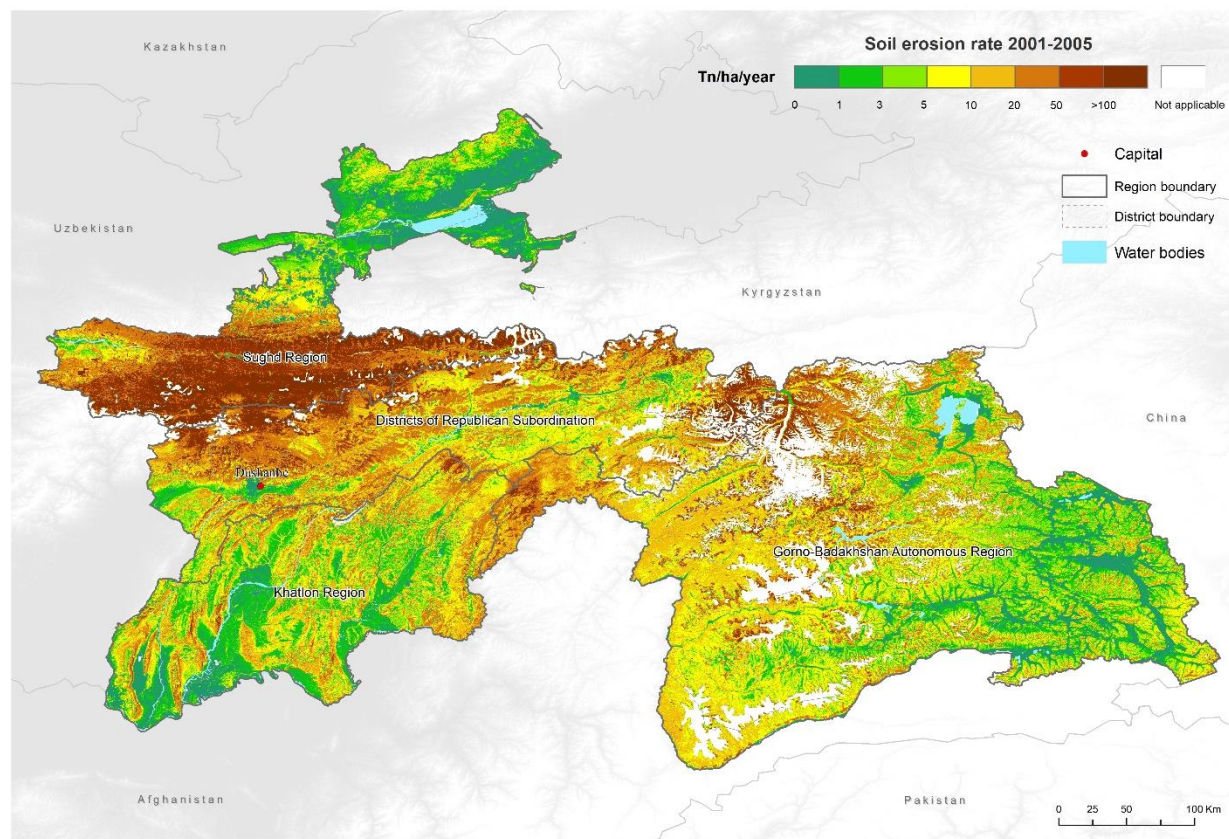
Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)



Climate Hazards Summary: Soil erosion rate at 100m for 2001 – 2005

Soil erosion rate at 100m for 2001 - 2005



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m for the period 2001 to 2005. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Most of Tajikistan experiences a rate of soil loss ranging 0 to 10 tn/ha/yr. The rate of soil loss is highest (>100 tn/ha/yr) along a 350km belt in southern Sughd region. High rates are also recorded at very high elevations in northern Gorno-Badakhshan, as well as in the west of the same region. Moderate soil loss rates (>20 tn/ha/yr) are recorded across the north, centre, and west of the Districts of Republican Subordination and northern and eastern Gorno-Badakhshan. The rate of soil loss is lowest (<5 tn/ha/yr) in northern Sughd region, eastern Gorno-Badakhshan, and southern Khatlon.

About the data

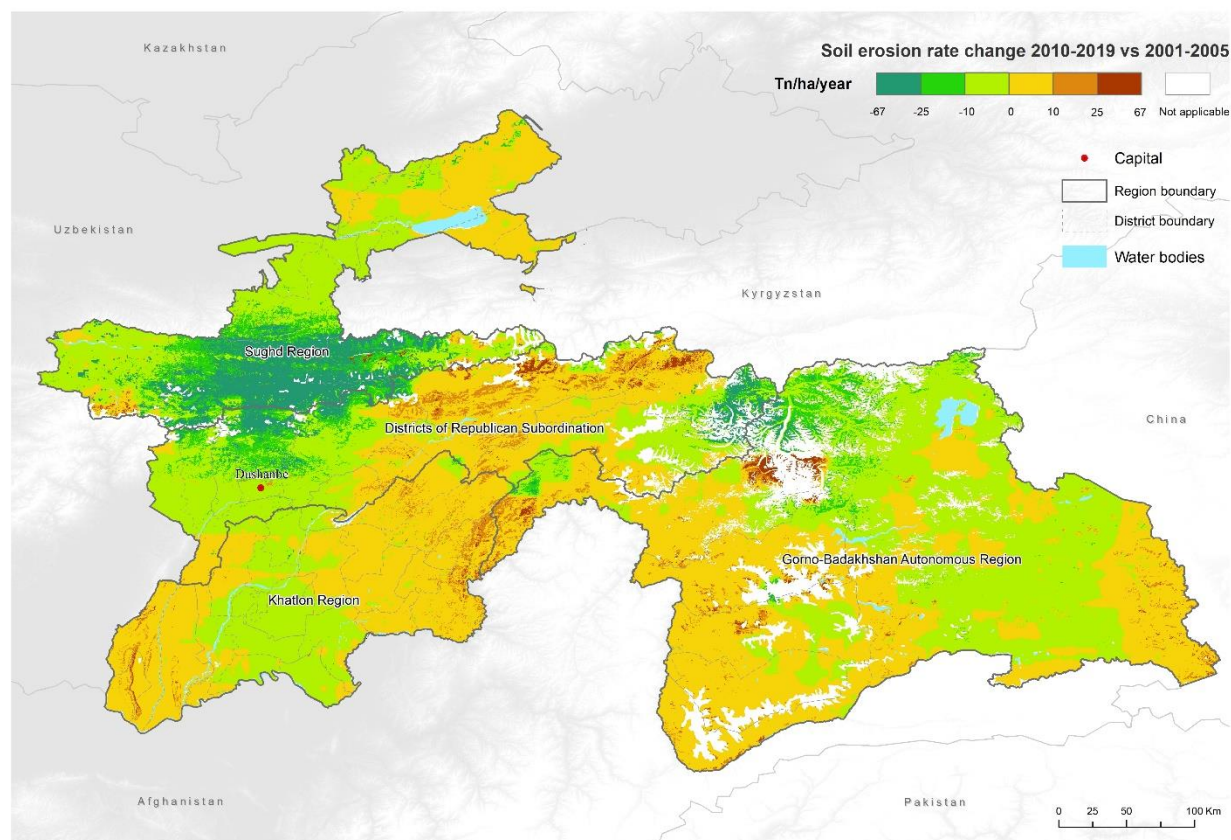
Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
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- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Climate Hazards Summary: Soil erosion rate changes between periods 2001-2005 and 2015 – 2019

Soil erosion rate changes between periods 2001-2005 and 2015 – 2019



Location

Tajikistan

Description

The map provides an estimate of the change in the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m between the periods 2001 to 2005 to 2015 to 2019.

Trends

Most of Tajikistan has experienced a low amount of change in the rate of soil loss (+/- 10 tn/ha/yr), with more surface area experiencing lower soil loss than higher soil loss. Notably, areas that experience the highest soil loss rates (southern Sughd and northern Gorno-Badakhshan) have observed the largest reduction in the rate of soil loss between the two observation periods (up to -25 to -67 tn/ha/yr). The largest increase in the rate of soil loss is recorded in the centre of the country (+25 to +67 tn/ha/yr) and in northwest Gorno-Badakhshan.

About the data

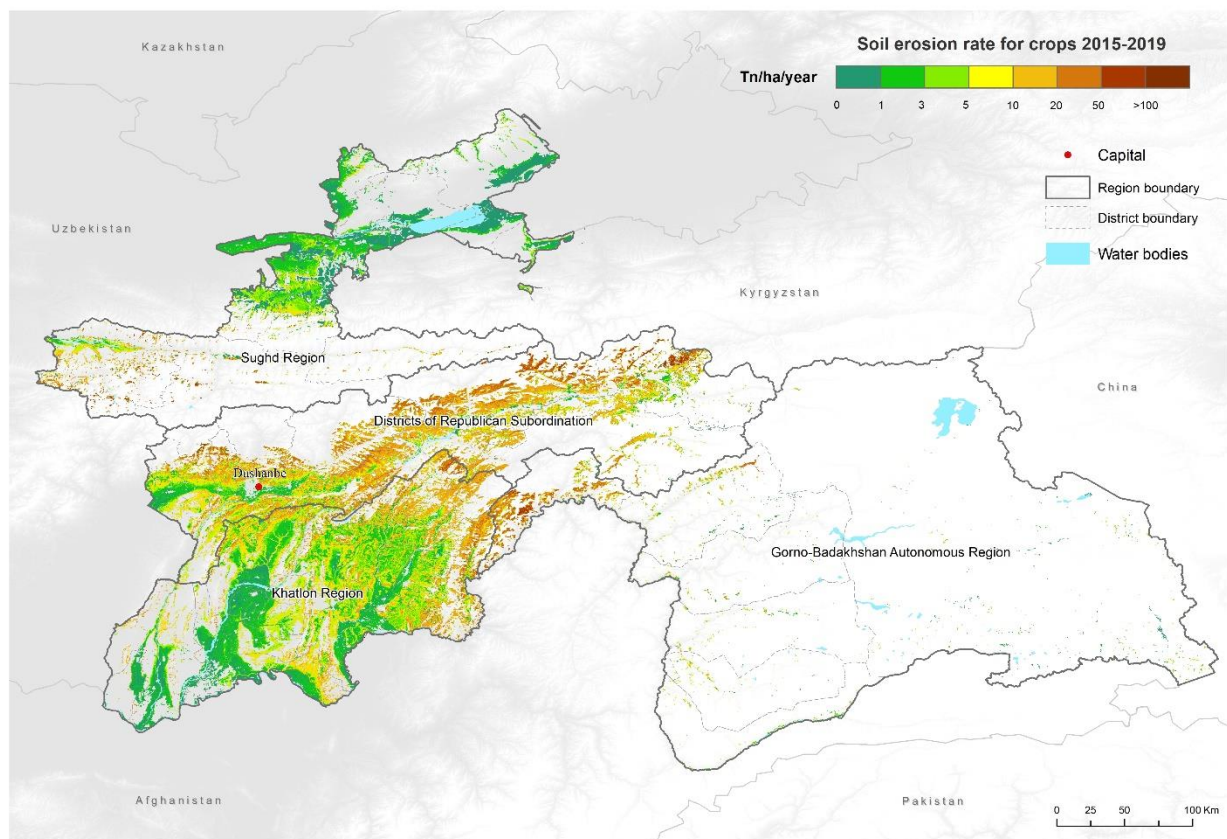
Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Climate Hazards Summary: Soil erosion rate by land cover type (crop) at 200 m for 2015 – 2019

Soil erosion rate by land cover type (crop) at 100 m for 2015 - 2019



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for crops in Tajikistan at 100m for the period 2015 to 2019. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Croplands are largely located in northern Sughd, Khatlon and Districts of Republican Subordination regions. The rate of soil erosion is predominantly less than 10 tn/ha/yr across cropland areas, with the lowest rates of soil erosion recorded (<1 tn/ha/yr) recorded in southern Khatlon and northern and eastern Sughd regions. The rate of soil erosion is higher (>10 tn/ha/yr) in the Districts of Republican Subordination, peaking at >50 tn/ha/yr in small patches in west Gorno-Badakhshan and northern Khatlon.

Trends

Croplands in eastern Khatlon and Districts of Regional Subordination Regions observed an overall increase in the rate of soil erosion relative to 2001 – 2005.

About the data

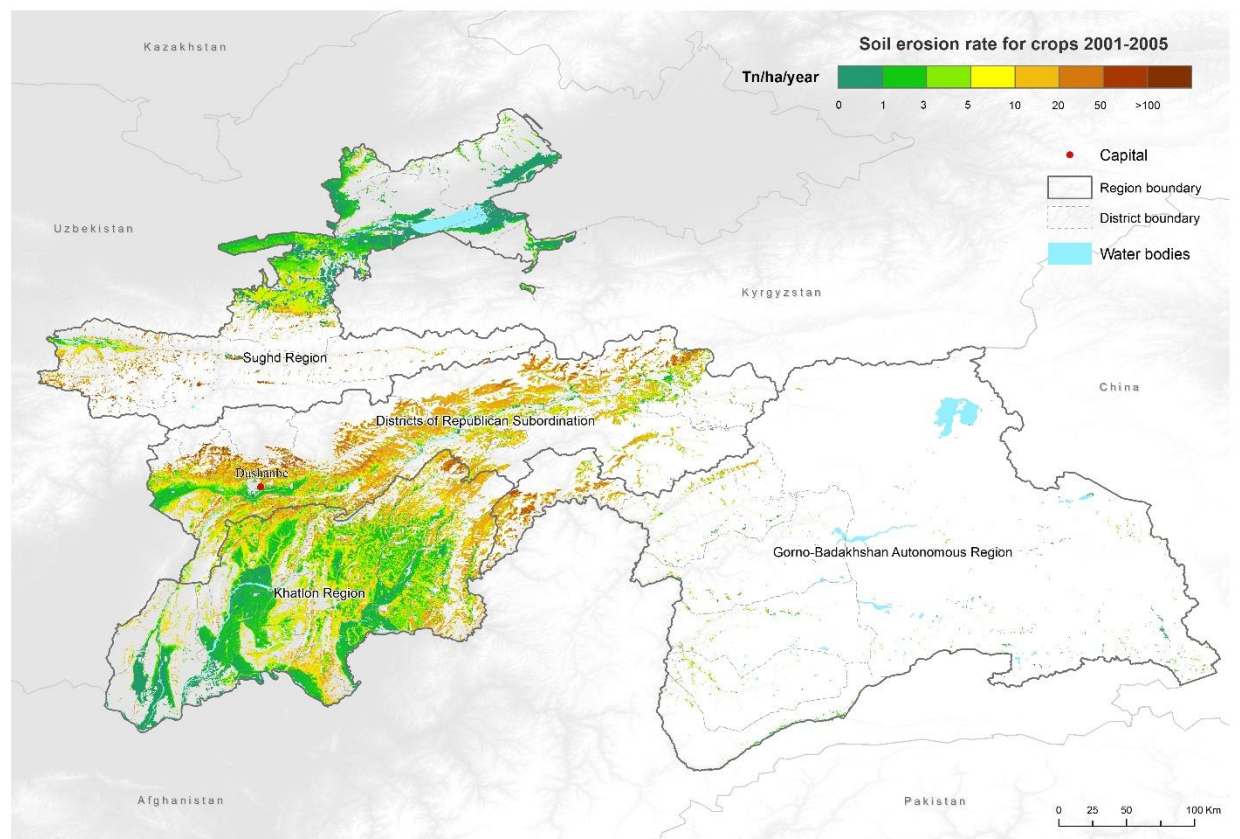
Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Climate Hazards Summary: Soil erosion rate by land cover type (crops) at 200 m for 2001 - 2005

Soil erosion rate by land cover type (crops) at 100 m for 2001 - 2005



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for crops in Tajikistan at 100m for the period 2001 to 2005. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Croplands are largely located in northern Sughd, Khatlon and Districts of Republican Subordination regions. The rate of soil erosion is predominantly less than 10 tn/ha/yr across cropland areas, with the lowest rates of soil erosion recorded (<1 tn/ha/yr) recorded in southern Khatlon and northern and eastern Sughd regions. The rate of soil erosion is higher (>10 tn/ha/yr) in the Districts of Republican Subordination, peaking at >50 tn/ha/yr in small patches in west Gorno-Badakhshan and northern Khatlon.

About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Climate Hazards Summary: Soil erosion rate by land cover type (grassland) at 200 m for 2015 – 2019

Soil erosion rate by land cover type (grassland) at 100 m for 2015 - 2019

Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for grasslands in Tajikistan at 100m for the period 2015 to 2019. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Grassland accounts for a larger share of land cover than cropland in Tajikistan, predominating across Gorno-Badakhshan region, in southern and parts of northern Sughd region, as well as in patches across the Districts of Republican Subordination region. The rate of soil erosion predominantly ranges 3 to 20 tn/ha/yr, with the lowest rates observed in the grasslands of eastern Gorno-Badakhshan. The highest rates (up to 100 tn/ha/yr) are observed in in southern Sughd region, including along the border with the Districts of Republican Subordination, and eastern Gorno-Badakhshan.

Trends

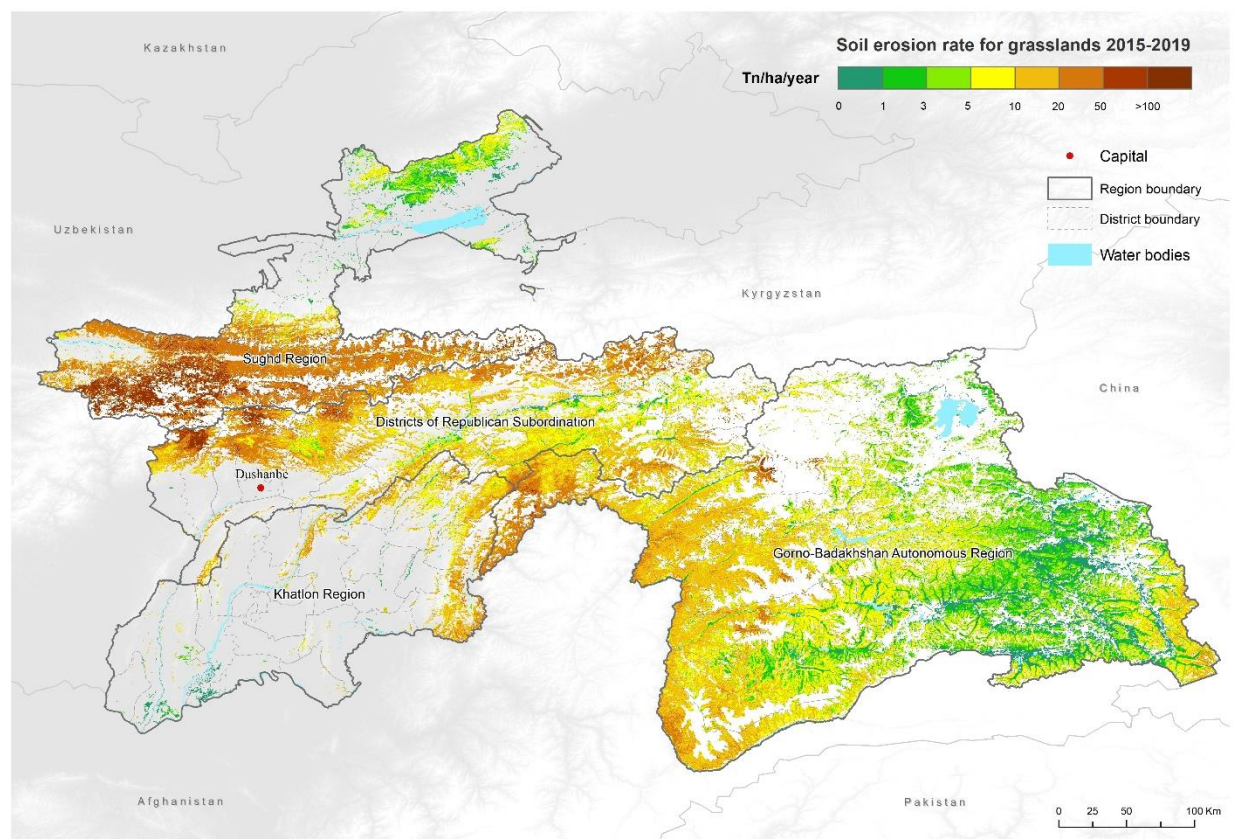
Almost all grassland areas have observed an increase in the rate of soil erosion between 2001 – 2005.

About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

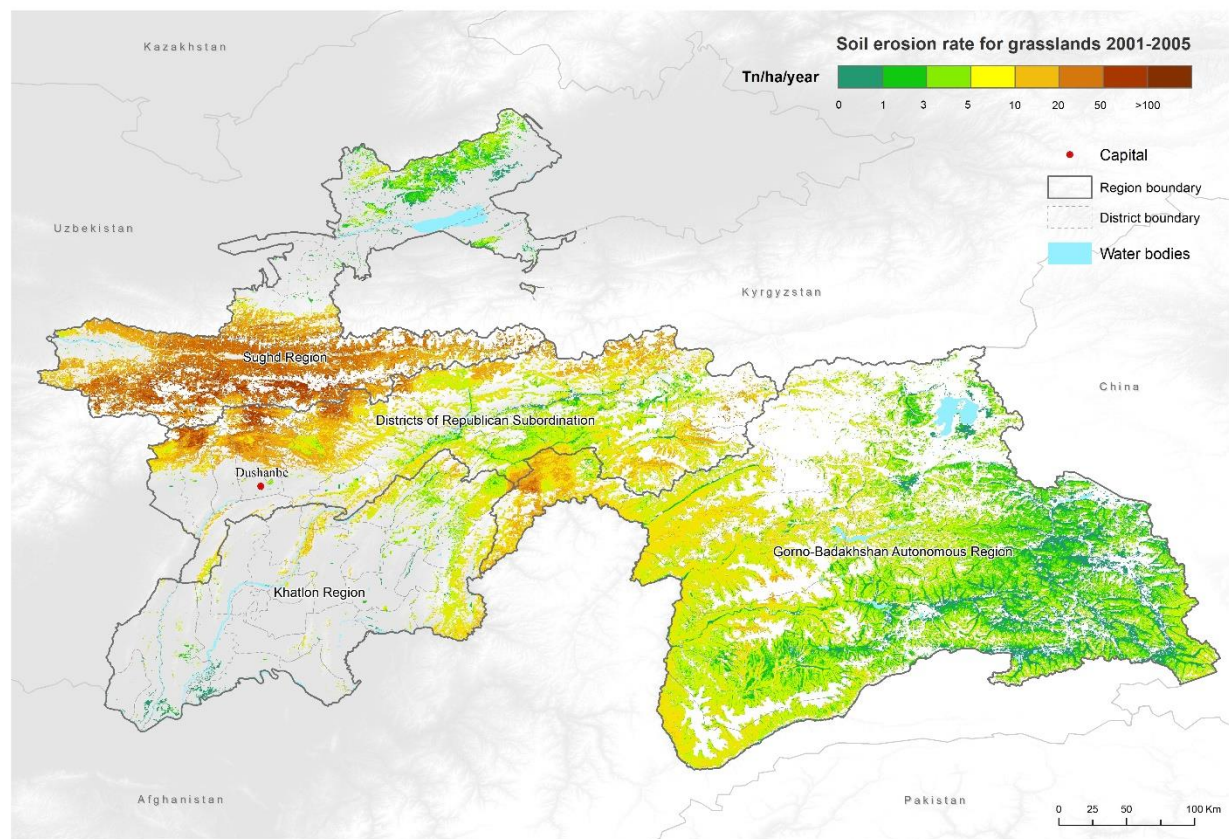
Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)



Climate Hazards Summary: Soil erosion rate by land cover type (grassland) at 200 m for 2001 - 2005

Soil erosion rate by land cover type (grassland) at 100 m for 2001 - 2005



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for grasslands in Tajikistan at 100m for the period 2001 to 2005. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

Grassland accounts for a larger share of land cover than cropland in Tajikistan, predominating across Gorno-Badakhshan region, in southern and parts of northern Sughd region, as well as in patches across the Districts of Republican Subordination region. The rate of soil erosion is predominantly <10 tn/ha/yr, with the lowest rates observed in the grasslands of eastern Gorno-Badakhshan and northern Sughd regions. The highest rates (20 to 100 tn/ha/yr) are observed in in southern Sughd region, including along the border with the Districts of Republican Subordination.

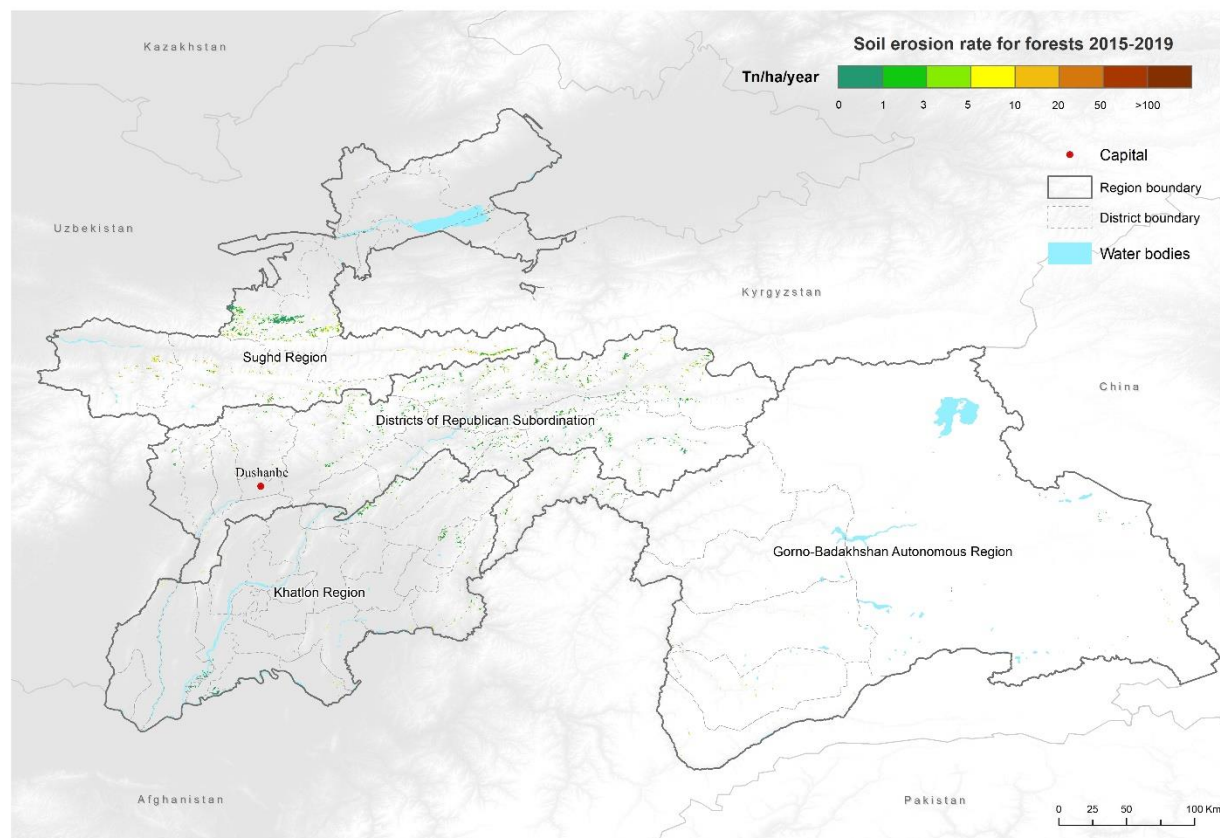
About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Soil erosion rate by land cover type (forest) at 100 m for 2015 - 2019



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for forests in Tajikistan at 100m for the period 2015 to 2019. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

About the data

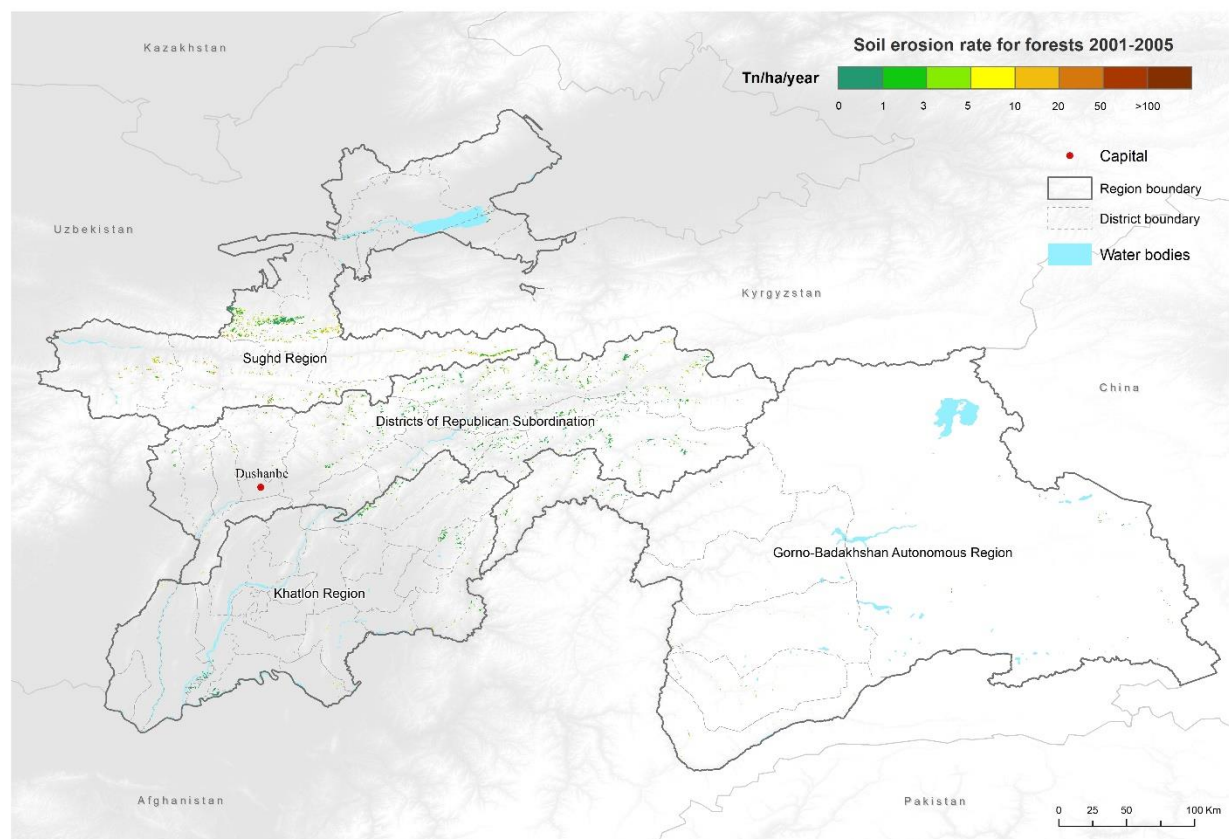
Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Climate Hazards Summary: Soil erosion rate by land cover type (forest) at 200 m for 2001 - 2005

Soil erosion rate by land cover type (forest) at 100 m for 2001 - 2005



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion for forests in Tajikistan at 100m for the period 2001 to 2005. Soil erosion classes are based on the European Joint Research Centre's [classification](#).

Patterns

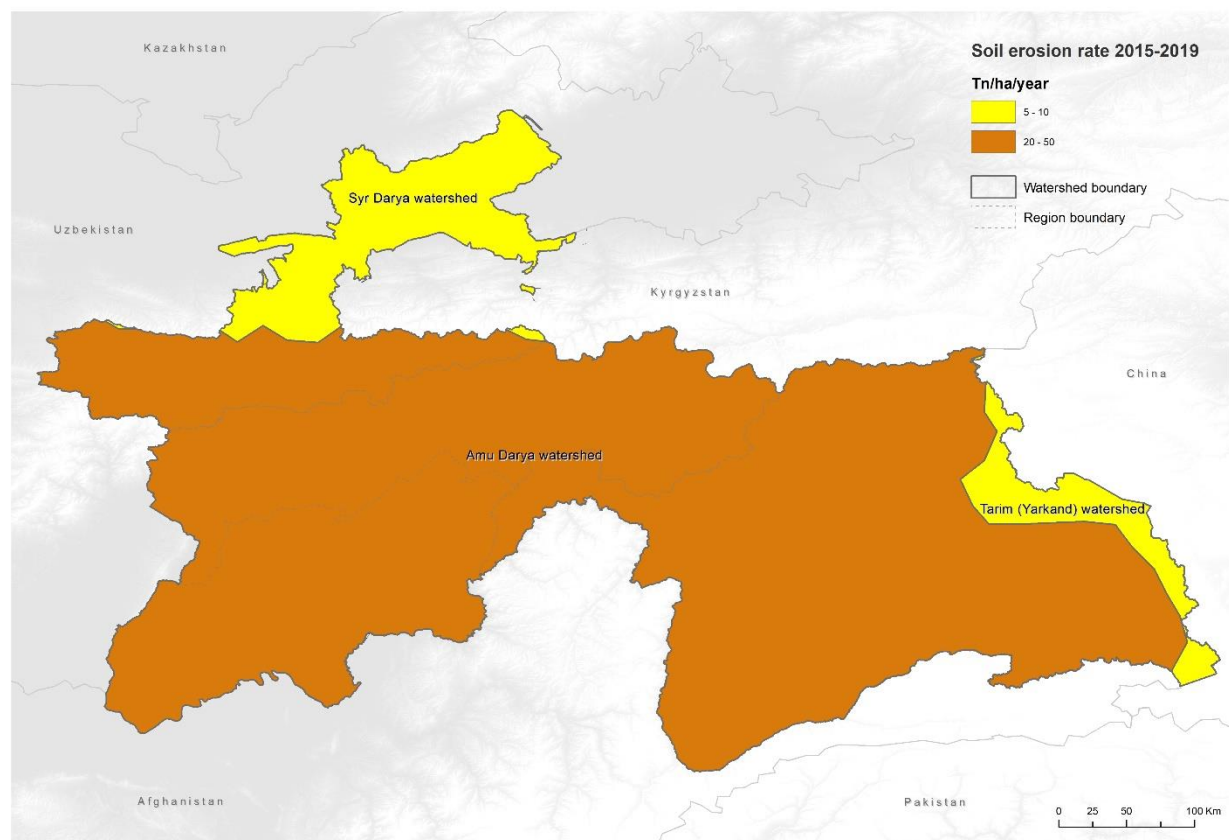
About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Soil erosion rate mean by watersheds for 2015 - 2019



Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m for the period 2015 to 2019 by watersheds.

Patterns

The Amu Darya watershed, which includes the majority of Tajikistan's territory, experiences at least double the average rate of soil loss (20–50 tn/ha/yr) compared to the Syr Darya and Tarim (Yarkand) watersheds (5–10 tn/ha/yr).

About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Watersheds: Major River Basins Of The World (WB)

Soil erosion rate mean by watersheds for 2001 - 2005

Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m for the period 2015 to 2019 by watersheds.

Patterns

The Amu Darya watershed, which includes the majority of Tajikistan's territory, experiences at least double the average rate of soil loss (20–50 tn/ha/yr) compared to the Syr Darya and Tarim (Yarkand) watersheds (5–10 tn/ha/yr).

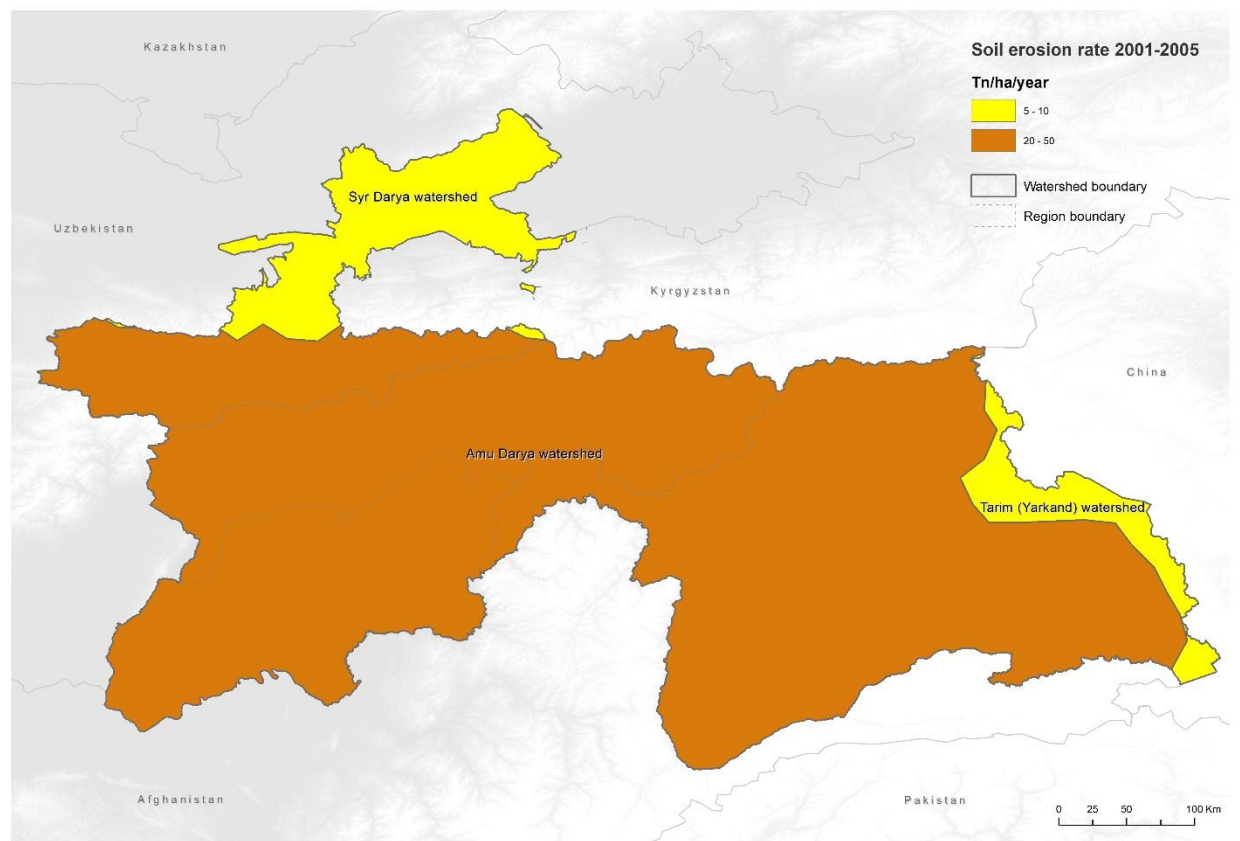
About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Watersheds: Major River Basins Of The World (WB)



Climate Hazards Summary: Soil erosion rate changes by watersheds between periods 2001-2005 and 2015 – 2019

Soil erosion rate mean changes by watersheds between periods 2001-2005 and 2015 – 2019

Location

Tajikistan

Description

The map provides an estimate of the rate of soil loss (tonnes per hectare per year) due to water erosion in Tajikistan at 100m for the period 2015 to 2019 by watersheds.

Trends

The watershed average rate of soil loss is -10 tn/ha/yr in the Amu Darya and Syr Darya watersheds, but +10 tn/ha/yr higher in the Tarim (Yarkand) watershed.

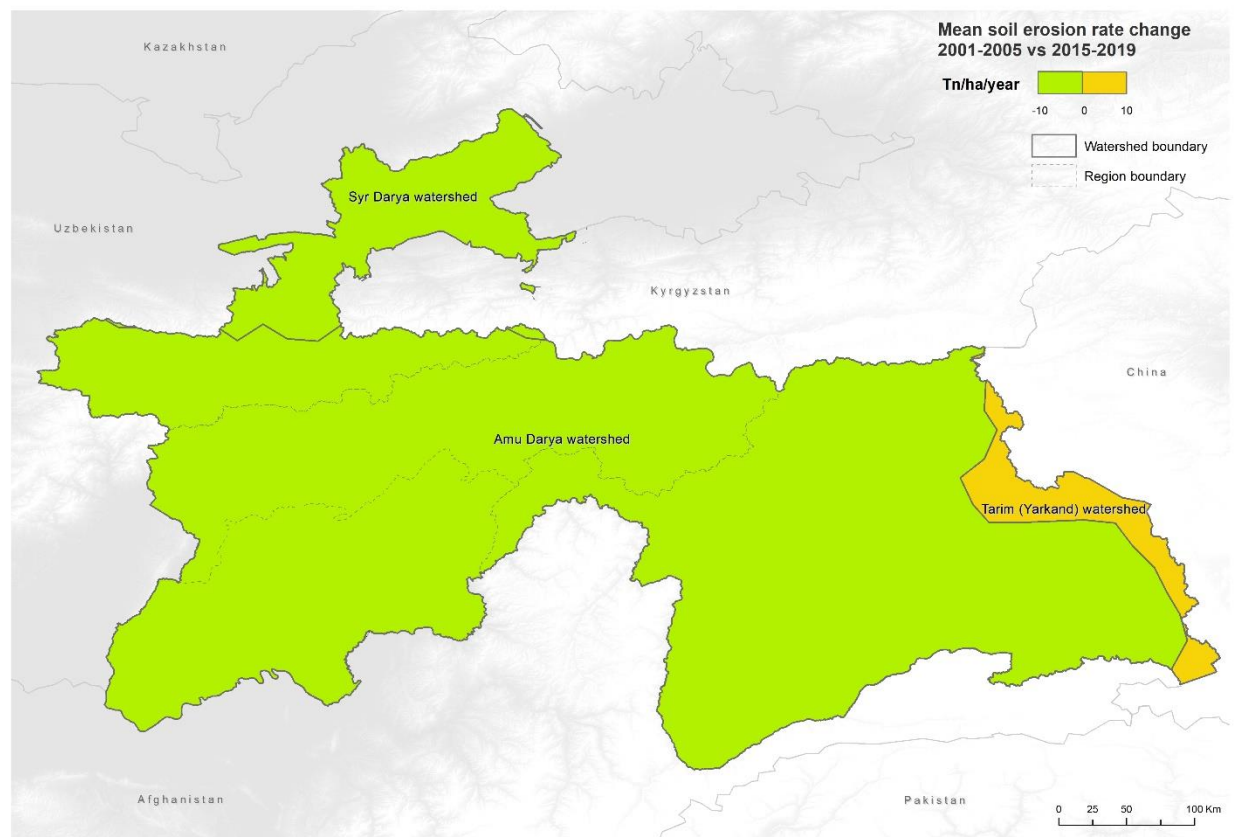
About the data

Prepared by EO4SD CR cluster using RUSLE methodology.

Inputs:

- Climate Hazard InfraRed Precipitation with Station data (CHIRPS) (5km)
- SoilGrids data: sand, silt and clay, organic carbon stock content (250m)
- Shuttle Radar Topography Mission (SRTM) Digital Elevation Model (DEM) (90 m)
- Fraction of green Vegetation Cover (Fcover) from Copernicus programme (1 km)
- NASA's Global Food Security-support Analysis Data (GFSAD) 1 km datasets
- ESA's Climate Change Initiative (CCI) Land Cover products (300 m)

Watersheds: Major River Basins Of The World (WB)



Multi-hazard risk map due to landslide, flood, soil erosion and grasslands degradation

Location

Tajikistan

Description

The map presents hazard exposure by hazard type(s). Information is presented at 100m resolution.

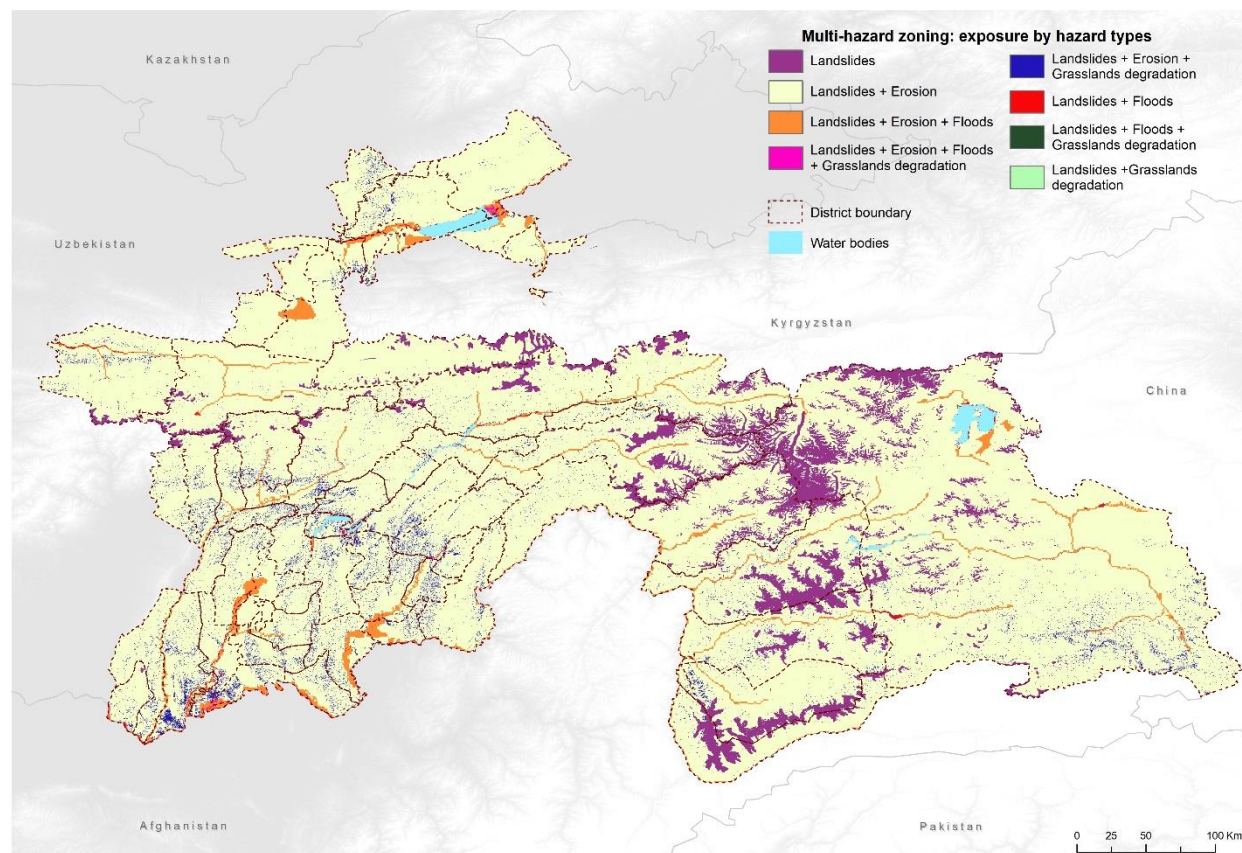
Patterns

About the data

Prepared by EO4SD CR cluster.

Inputs

- Landslide susceptibility
- Soil erosion rate (2015 - 2019)
- Flood hazard (WRI 1-in-100 year return period)
- Grasslands degradation (1990-2019). Degraded areas of the pasture evolution product.



Multi-hazard risk map due to landslide, flood, soil erosion and grasslands degradation

Location

Tajikistan

Description

The map shows areas in Kyrgyzstan exposed to one or more 'high' (incl. 'very high') severity hazards. Hazards include flood, landslide, grasslands degradation and soil erosion. Information is presented at 100m resolution.

Patterns

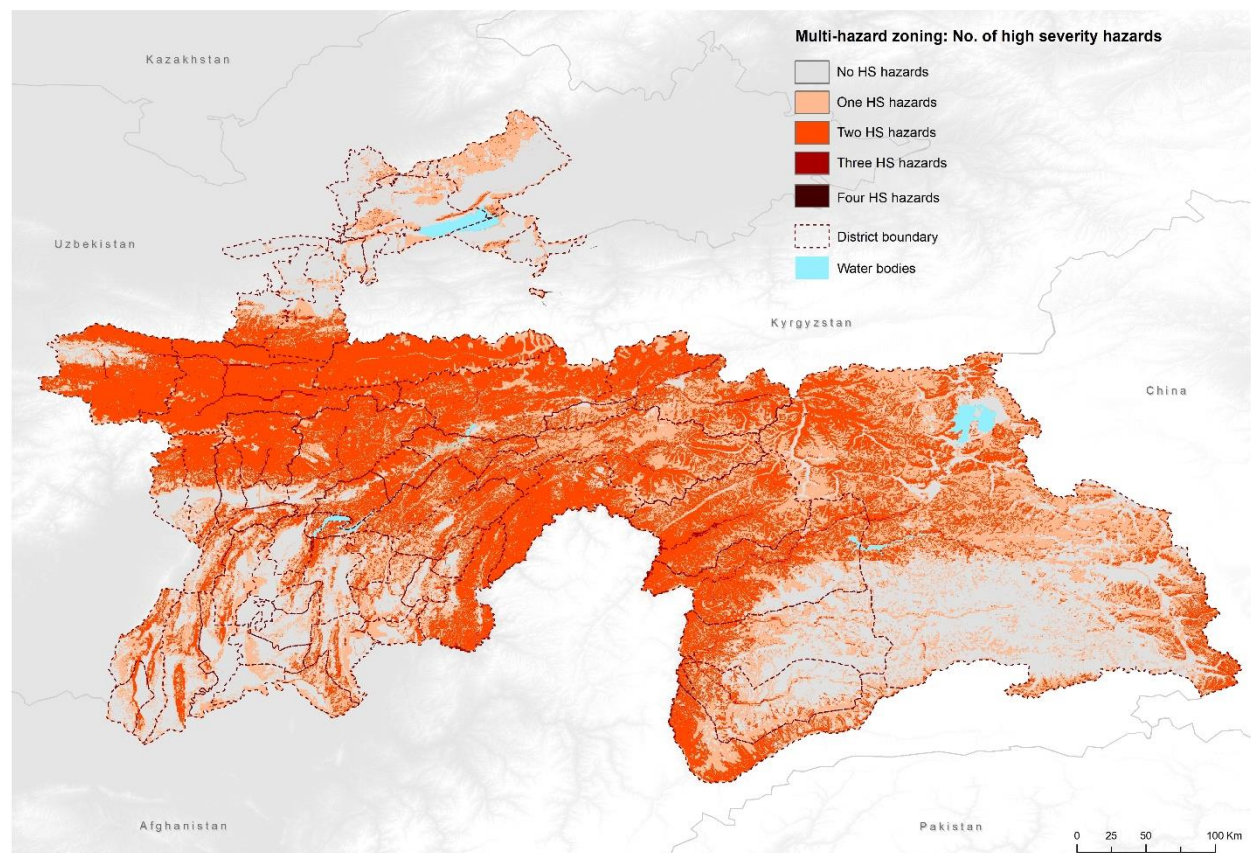
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About the data

Prepared by EO4SD CR cluster.

Inputs

- Landslide susceptibility
- Soil erosion rate (2015 - 2019)
- Flood hazard (WRI 1-in-100 year return period)
- Grasslands degradation (1990-2019). Degraded areas of the pasture evolution product.



Climate Hazards Summary: Multi-hazard zoning – High severity hazards

Multi-hazard risk map due to landslide, flood, soil erosion and grasslands degradation

Location

Tajikistan

Description

The map classifies areas of Tajikistan exposed to hazard types of 'high' (incl. 'very high') severity. Hazards include flood, landslide, grasslands degradation and soil erosion. Information is presented at 100m resolution.

Patterns

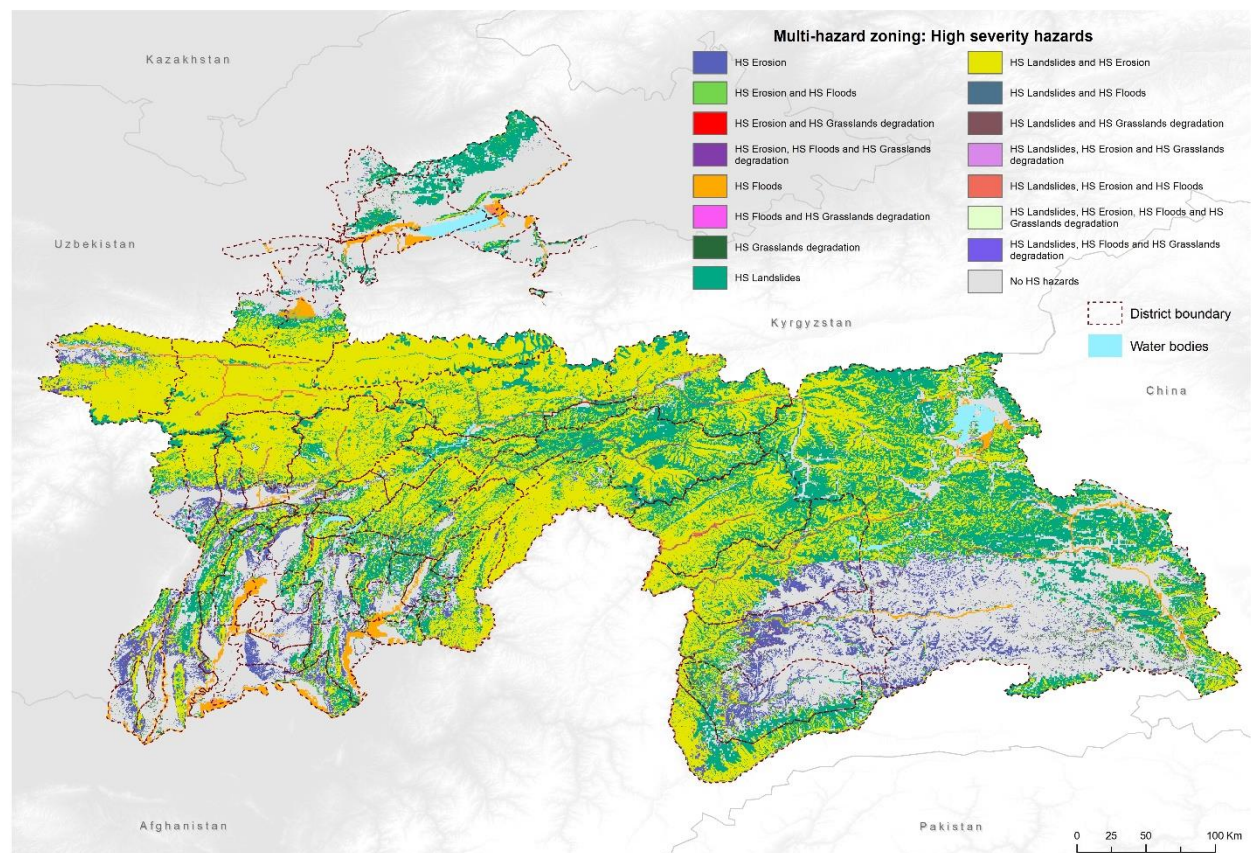
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About the data

Prepared by EO4SD CR cluster.

Inputs

- Landslide susceptibility
- Soil erosion rate (2015 - 2019)
- Flood hazard (WRI 1-in-100 year return period)
- Grasslands degradation (1990-2019). Degraded areas of the pasture evolution product.



Climate Hazards Summary: Multi-hazard zoning - 95th percentile hazard

Multi-hazard risk map due to landslide, flood, soil erosion and grasslands degradation

Location

Tajikistan

Description

The map shows combinations of hazard (by severity) that cover 95% of the total land area of Tajikistan. Information is presented at 100m resolution.

Patterns

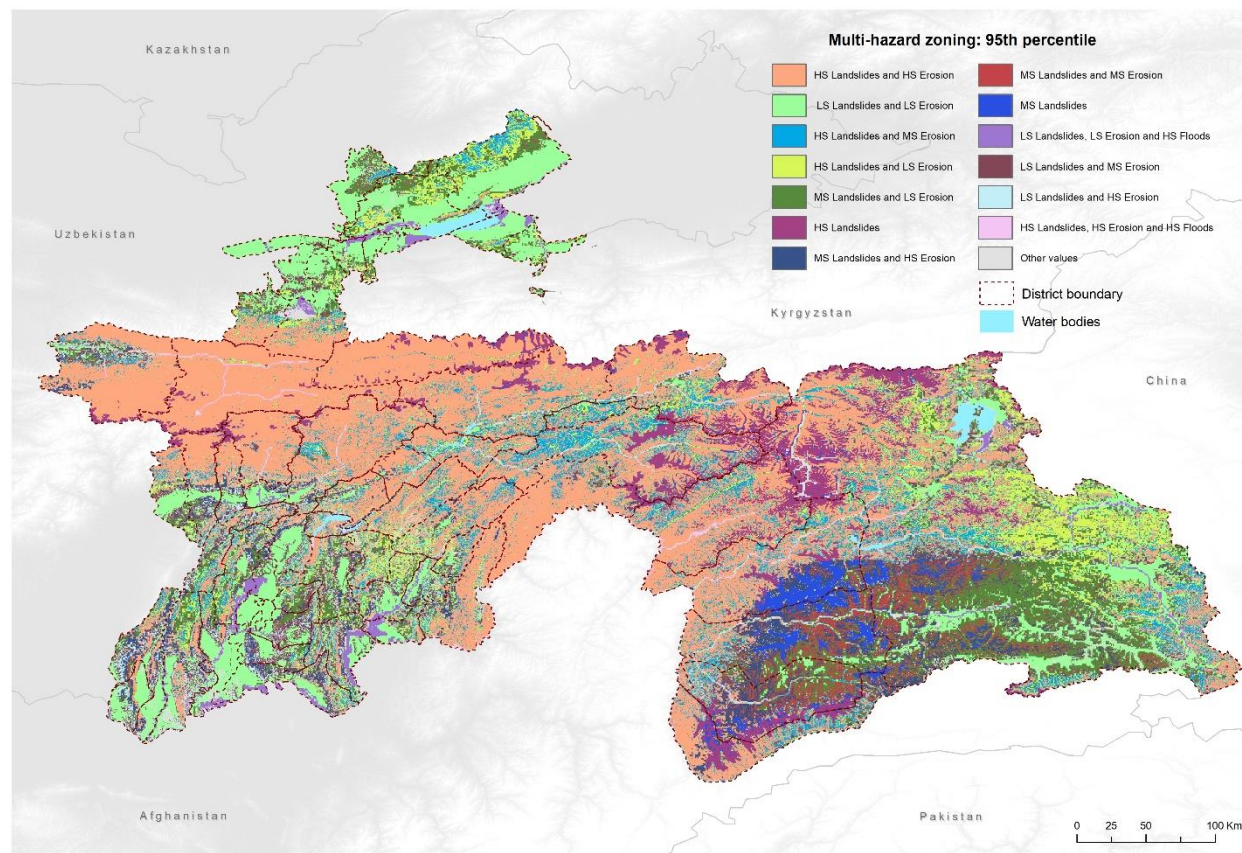
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About the data

Prepared by EO4SD CR cluster.

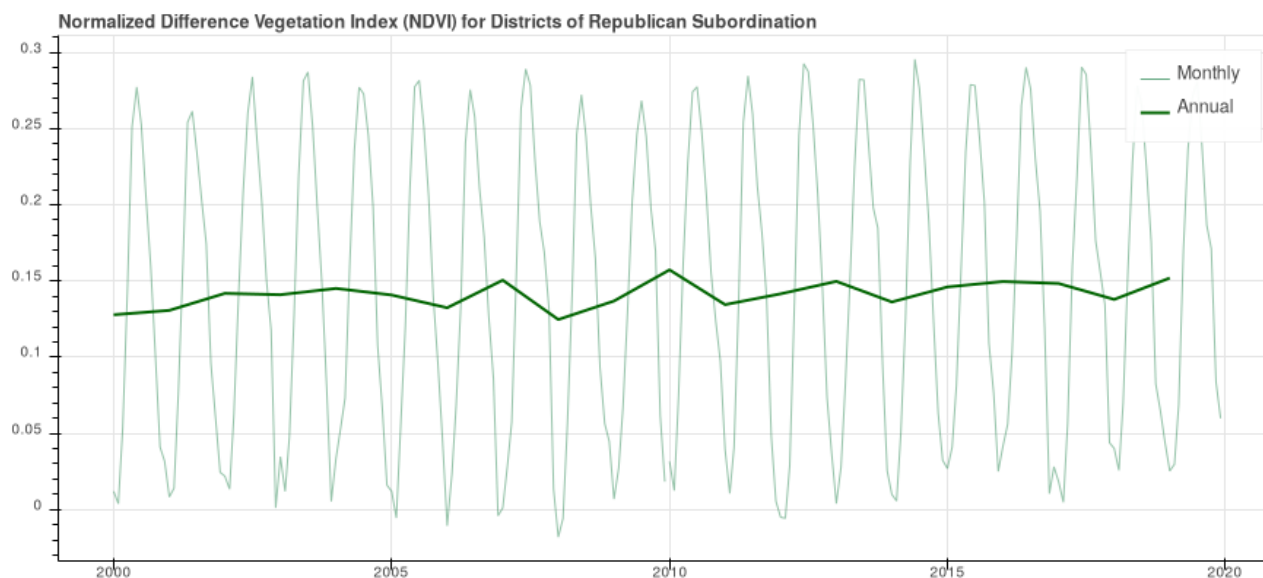
Inputs

- Landslide susceptibility
- Soil erosion rate (2015 - 2019)
- Flood hazard (WRI 1-in-100 year return period)
- Grasslands degradation (1990-2019). Degraded areas of the pasture evolution product.



Climate Data Summary: Vegetation greenness evolution in Districts of Republican Subordination, 2000-2019

Monthly and annual time series of NDVI in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents annual and monthly average NDVI values in Districts of Republican Subordination Oblast for the period 2000 – 2019.

Patterns

About the data

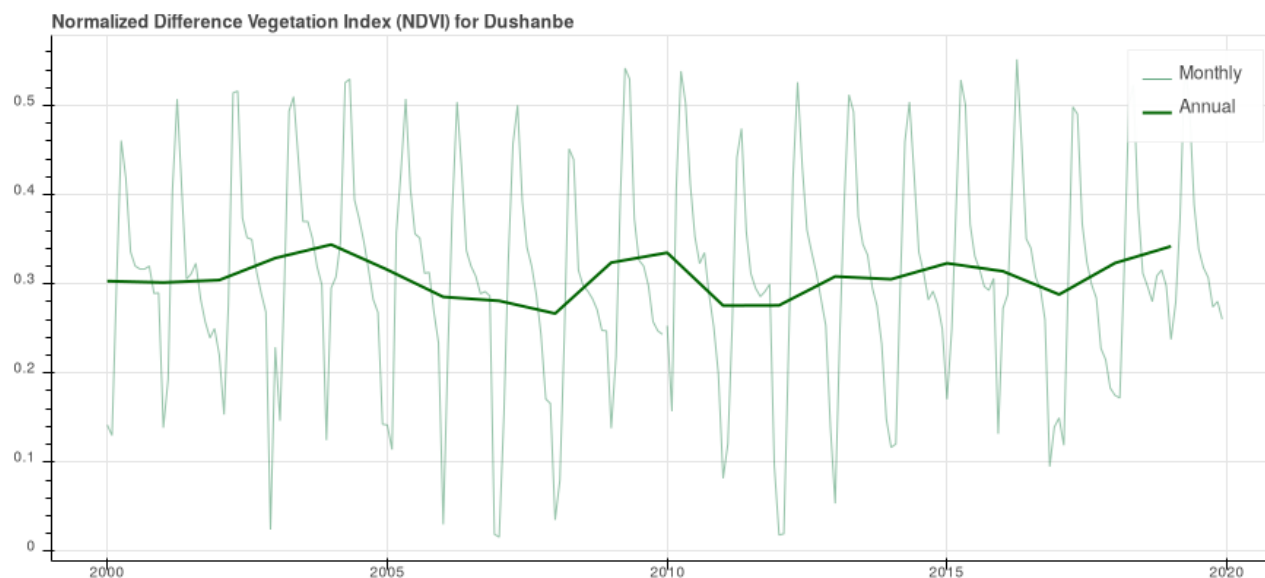
Prepared by EO4SD CR cluster.

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Vegetation greenness evolution in Dushanbe, 2000-2019

Monthly and annual time series of NDVI in Dushanbe



Location

Dushanbe

Description

This graph presents annual and monthly average NDVI values in Dushanbe Oblast for the period 2000 – 2019.

Patterns

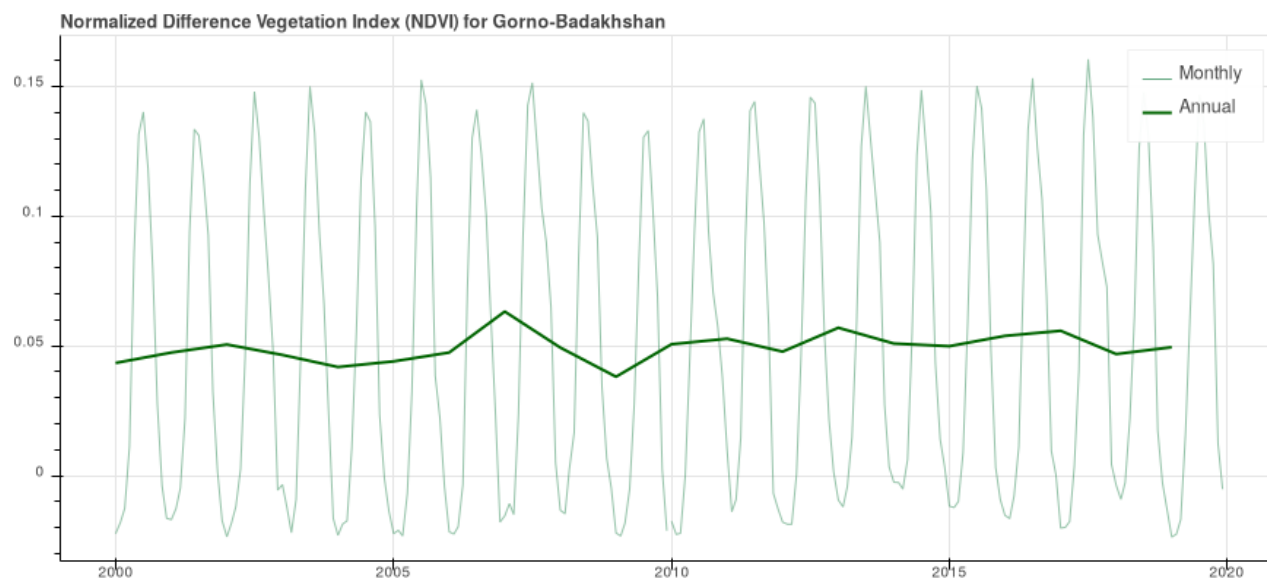
About the data

Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Monthly and annual time series of NDVI in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents annual and monthly average NDVI values in Gorno-Badakhshan Oblast for the period 2000 – 2019.

Patterns

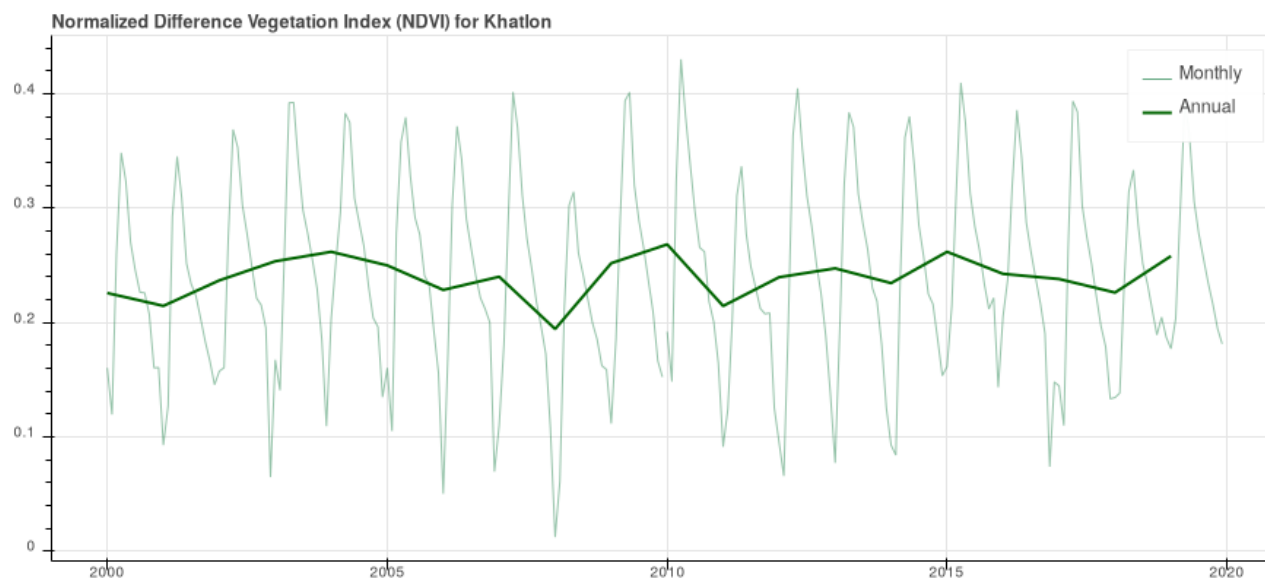
About the data

Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Monthly and annual time series of NDVI, Khatlon



Location

Khatlon

Description

This graph presents annual and monthly average NDVI values in Dushanbe Oblast for the period 2000 – 2019.

Patterns

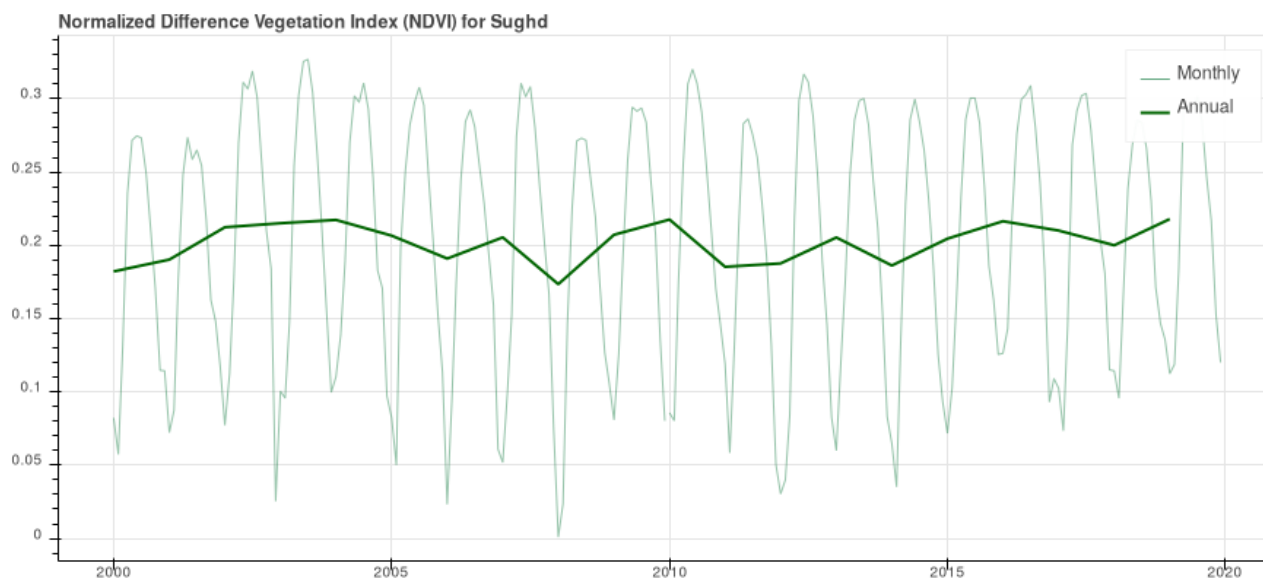
About the data

Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Monthly and annual time series of NDVI in Sughd



Location

Sughd

Description

This graph presents annual and monthly average NDVI values in Sughd Oblast for the period 2000 – 2019.

Patterns

About the data

Prepared by EO4SD CR cluster

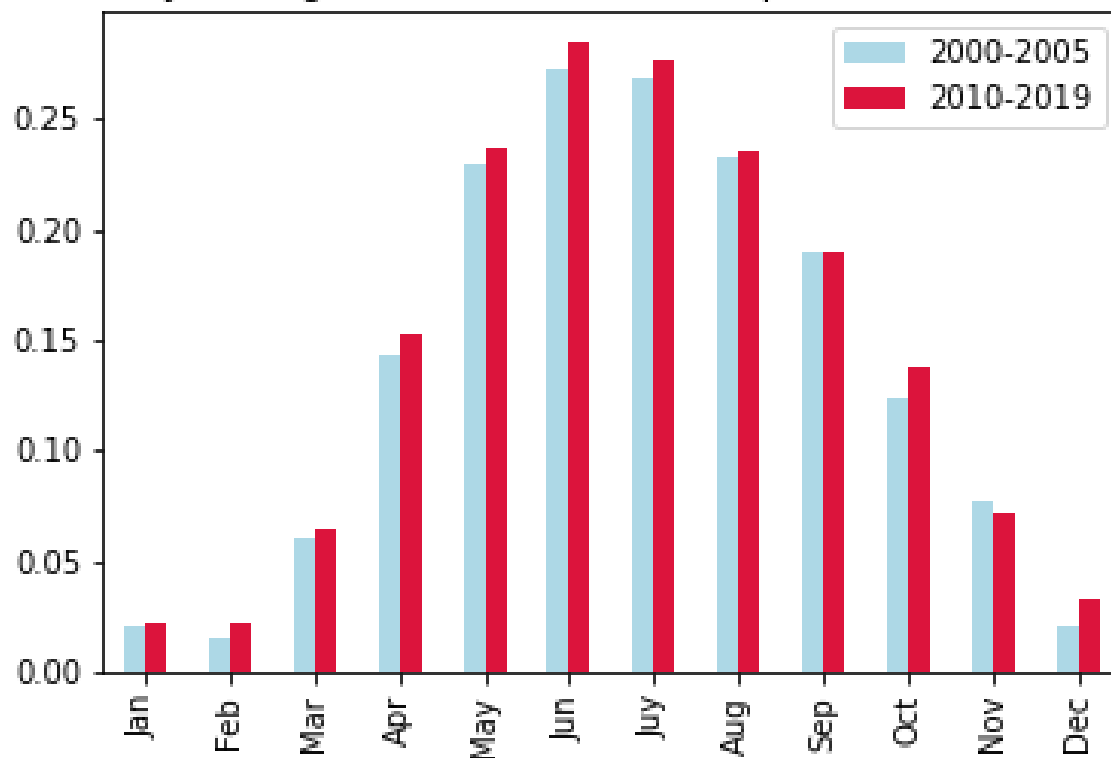
Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Monthly average vegetation greenness in Districts of Republican Subordination, 2000-2019

Monthly average NDVI in Districts of Republican Subordination

Monthly average NDVI in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents monthly averages of NDVI for the period 2000-2005 and the current decade (2010-2019) in Districts of Republican Subordination Oblast.

Patterns

About the data

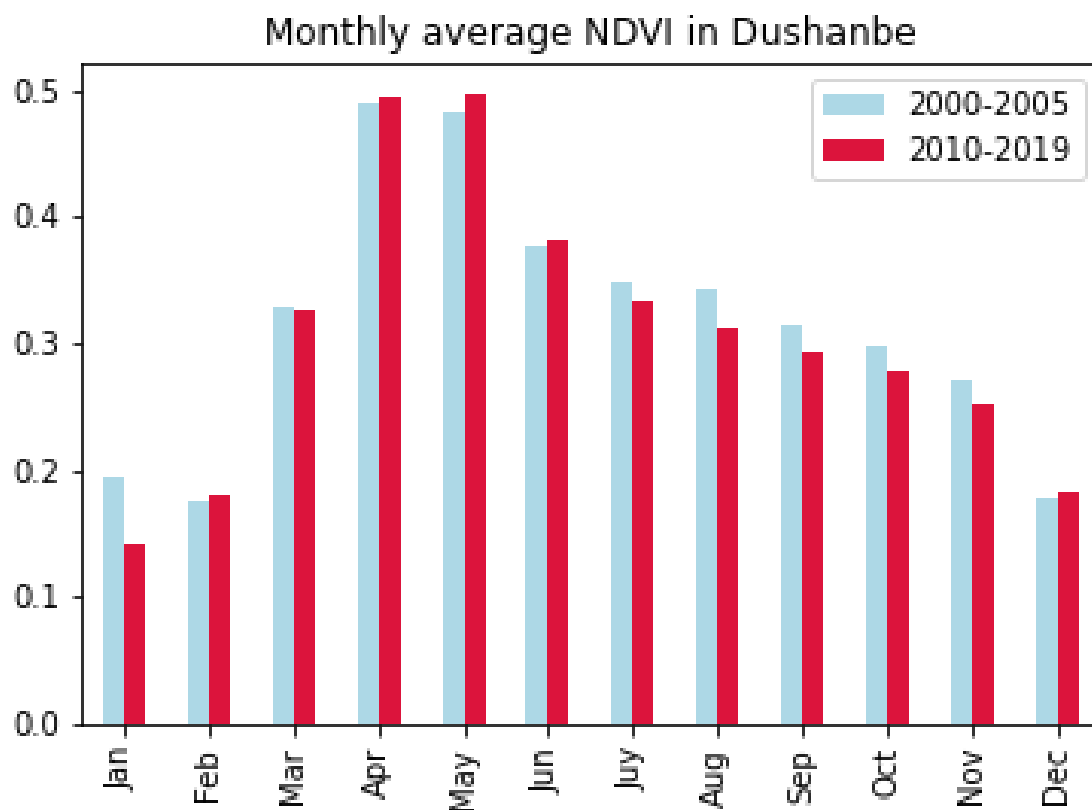
Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Monthly average vegetation greenness in Dushanbe, 2000-2019

Monthly average NDVI in Dushanbe



Location

Dushanbe

Description

This graph presents monthly averages of NDVI for the period 2000-2005 and the current decade (2010-2019) in Dushanbe Oblast.

Patterns

About the data

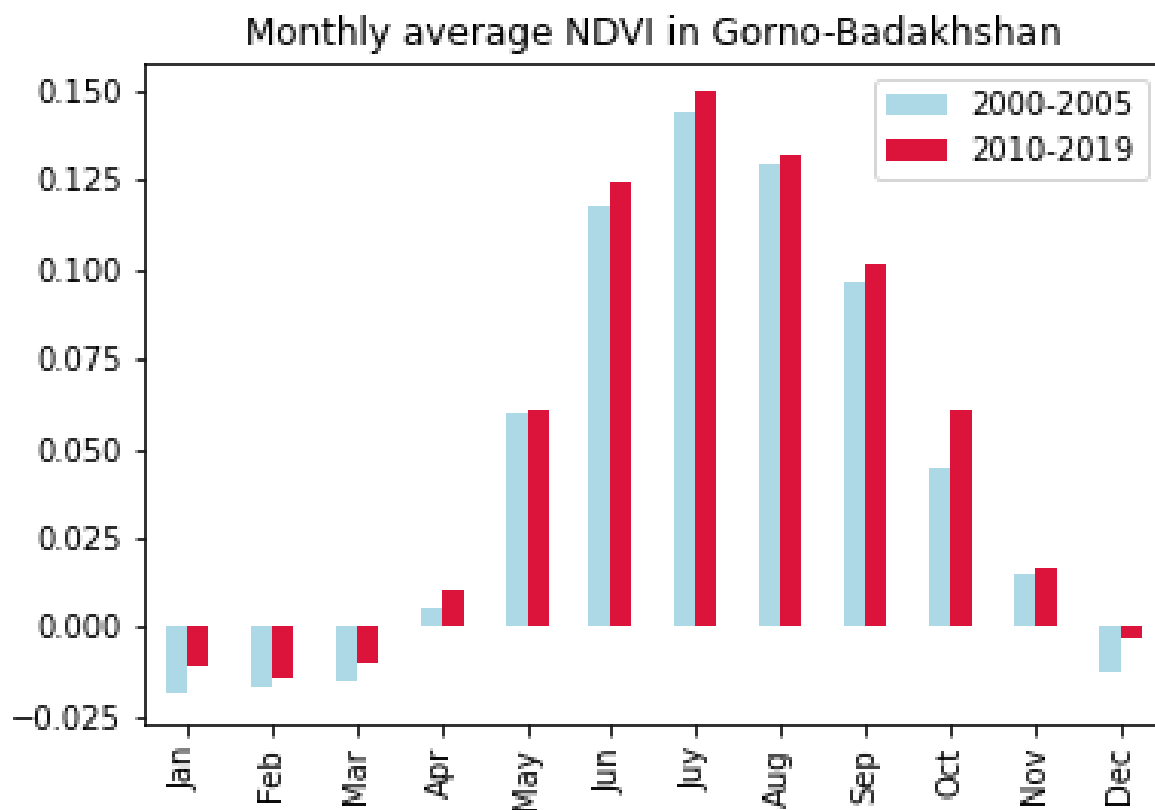
Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Monthly average vegetation greenness in Gorno-Badakhshan, 2000-2019

Monthly average NDVI in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents monthly averages of NDVI for the period 2000-2005 and the current decade (2010-2019) in Gorno-Badakhshan Oblast.

Patterns

About the data

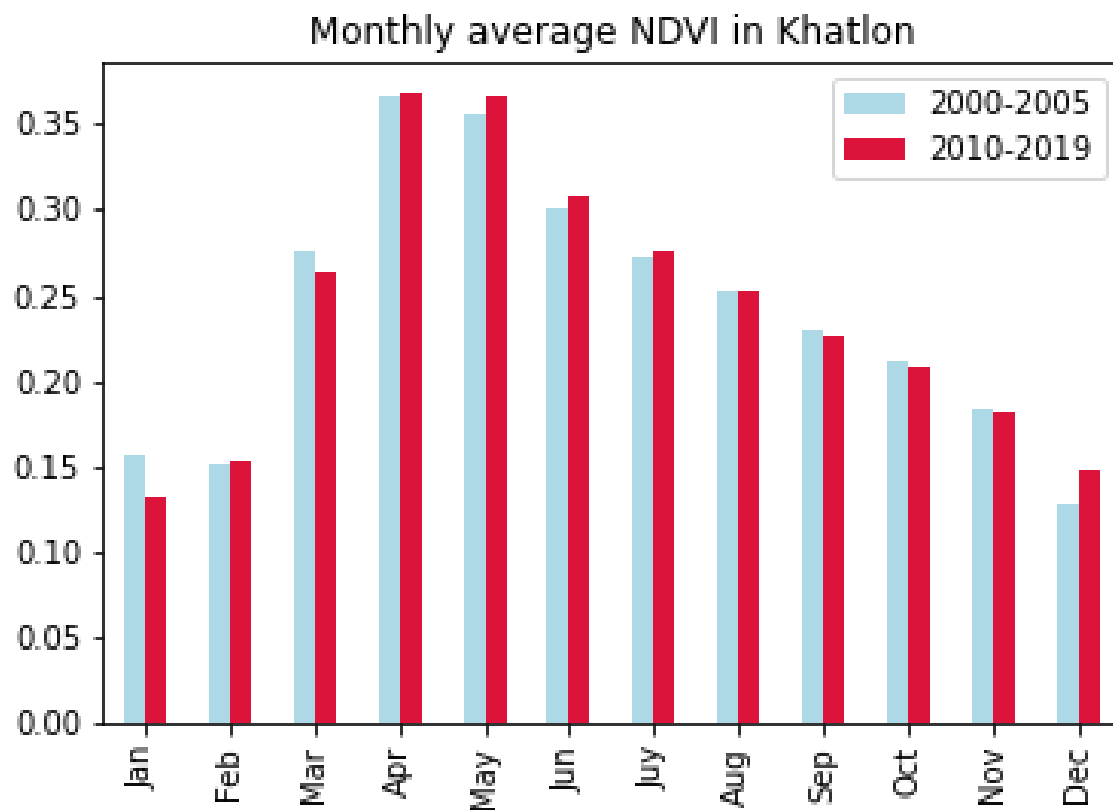
Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Monthly average vegetation greenness in Khatlon, 2000 – 2019

Monthly average NDVI in Khatlon



Location

Khatlon

Description

This graph presents monthly averages of NDVI for the period 2000-2005 and the current decade (2010-2019) in Khatlon Oblast.

Patterns

About the data

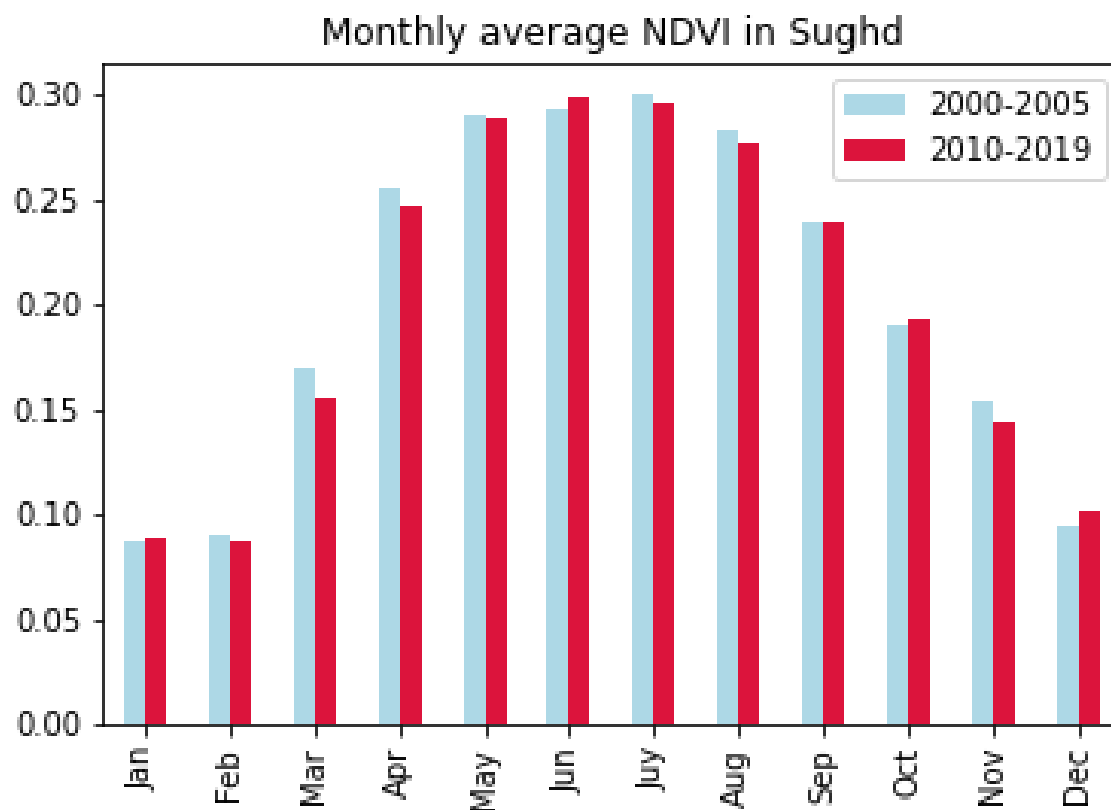
Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Climate Data Summary: Monthly average vegetation greenness in Sughd, 2000-2019

Monthly average NDVI in Sughd



Location

Sughd

Description

This graph presents monthly averages of NDVI for the period 2000-2005 and the current decade (2010-2019) in Sughd Oblast.

Patterns

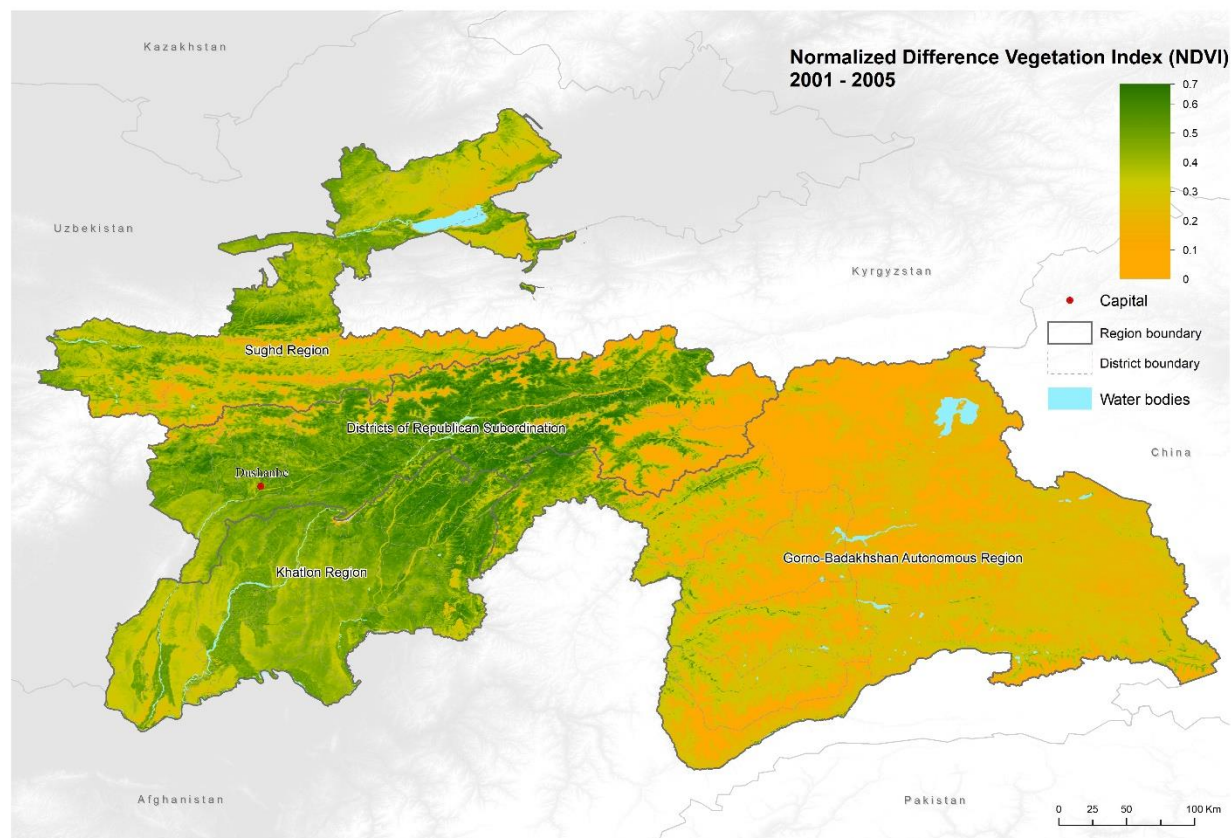
About the data

Prepared by EO4SD CR cluster

Inputs

[MODIS Vegetation Index Products at 0.05 degrees](#)

Average NDVI for the period 2001 - 2005



Location

Tajikistan

Description

This map shows the mean normalized difference vegetation index (NDVI) values at 250m resolution for the period 2001 to 2005. This indicator is a common proxy for the presence and productivity of vegetation. Differences in greenness depends on several factors, including the number and type of plants, leaf area, snow cover and plant health.

Patterns

There is a clear east-west divergence in the level of NDVI across Tajikistan. In Gorno-Badakhshan and eastern Districts of Republican Subordination, NDVI averages <0.2, consistent with the grassland habitat that predominates in this region, with large area of zero vegetation growth. NDVI ranges 0.4 to 0.7 in Khatlon and the Districts of Republican Subordination, however peaking in central areas of the latter region. Whilst most of Sughd Region observes NDVI 0.4 to 0.6, consistent with extensive crop growing in the region, low (<0.1) NDVI is recorded at higher elevations of Sughd Region.

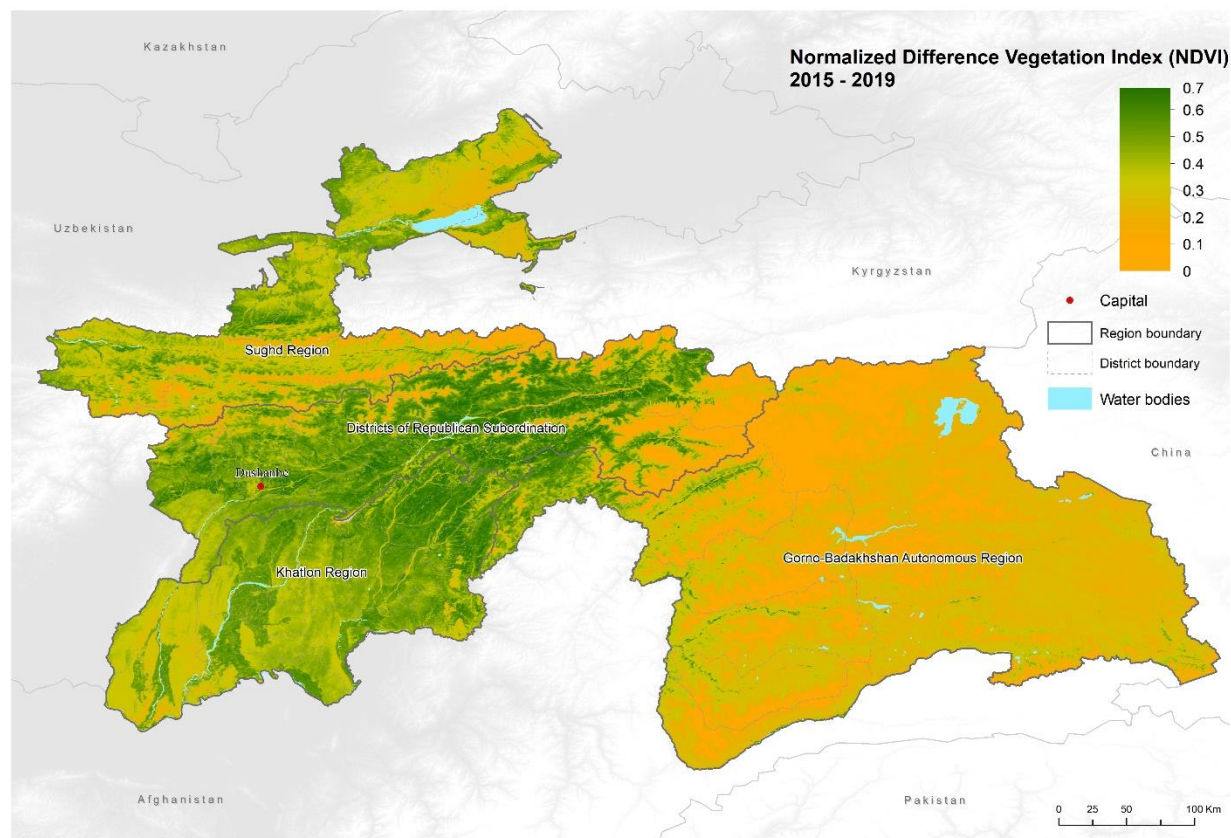
About the data

Prepared by EO4SD CR cluster

Inputs

- [MODIS Vegetation Index Products at 250m](#)

Average NDVI for the period 2015 - 2019



Location

Tajikistan

Description

This map shows the mean normalized difference vegetation index (NDVI) values at 250m resolution for the period 2015 to 2019. This indicator is a common proxy for the presence and productivity of vegetation. Differences in vegetation greenness depends on several factors, including the number and type of plants, leaf area, snow cover and plant health.

Patterns

There is a clear east-west divergence in the level of NDVI across Tajikistan. In Gorno-Badakhshan and eastern Districts of Republican Subordination, NDVI averages <0.2, consistent with the grassland habitat that predominates in this region, with large area of zero vegetation growth. NDVI ranges 0.4 to 0.7 in Khatlon and the Districts of Republican Subordination, however peaking in central areas of the latter region. Whilst most of Sughd Region observes NDVI 0.4 to 0.6, consistent with extensive crop growing in the region, low (<0.1) NDVI is recorded at higher elevations of Sughd Region.

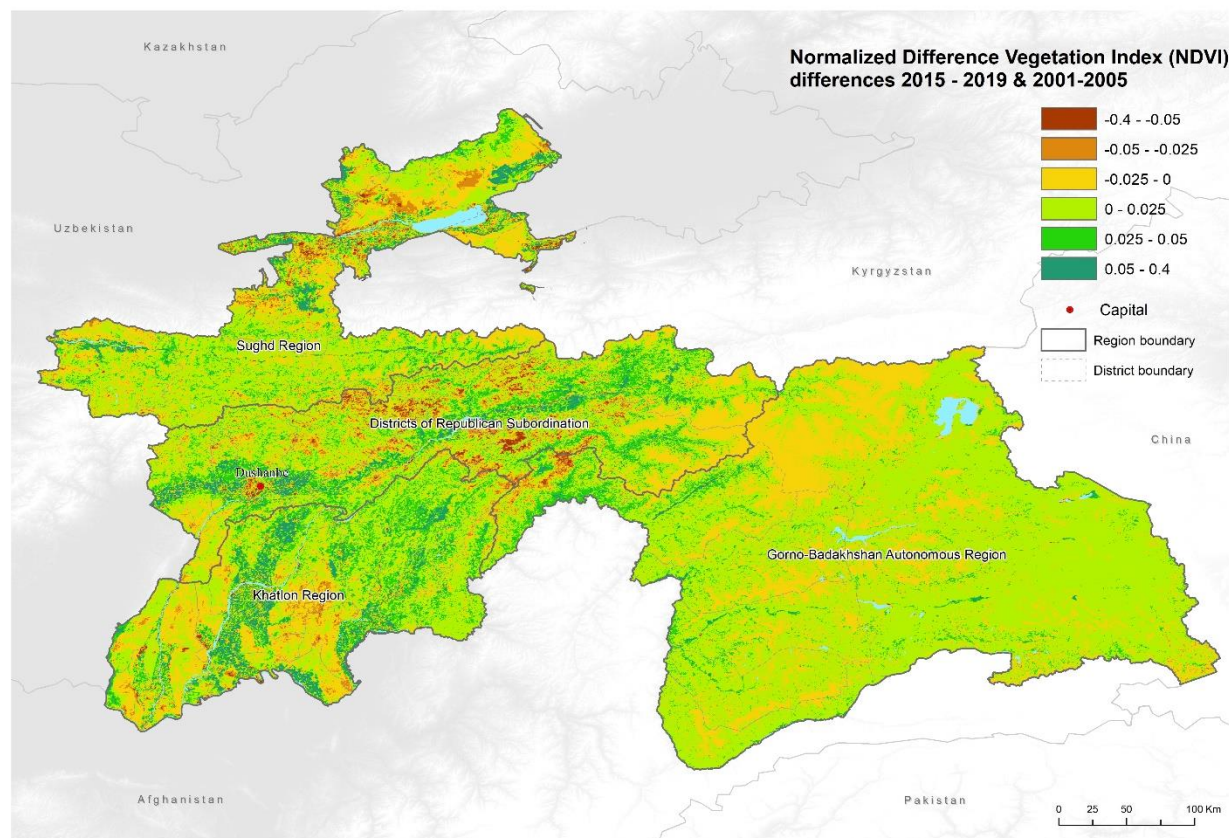
About the data

Prepared by EO4SD CR cluster

Inputs

- [MODIS Vegetation Index Products at 250m](#)

NDVI anomaly 2015-2019 relative to 2001-2005



Location

Description

This map shows the difference in average NDVI between 2001-2005 and 2015-2019. This indicator is a common proxy for the presence and productivity of vegetation. Differences in vegetation greenness depends on several factors, including the number and type of plants, leaf area, snow cover and plant health. An increase in greenness (NDVI) suggests higher plant productivity.

Patterns

Most of Tajikistan observes has experienced no significant change in NDVI (-0.05 to +0.05). Moreover, a larger area experiences an increase in NDVI than a decrease. The largest increases in NDVI (up to +0.4 tn/ha/yr) are observed in cropland areas with high NDVI (e.g. central Khatlon and central Sughd regions). Conversely, patches of significant decreases (up to -0.4 tn/ha/yr) in NDVI are observed in central and northern Sughd region and central Districts of Republic Subordination, as well as in the vicinity of Dushanbe.

About the data

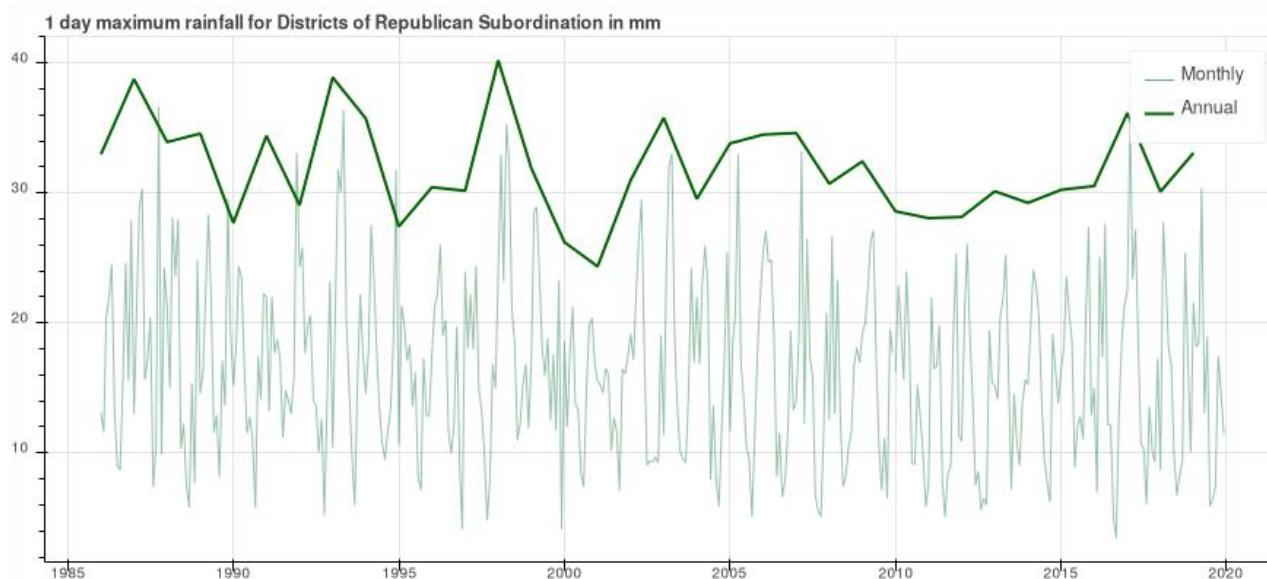
Prepared by EO4SD CR cluster

Inputs

- [MODIS Vegetation Index Products at 250m](#)

Climate Data Summary: Time series of 1-day maximum rainfall in Districts of Republican Subordination

Monthly and annual time series of 1-day maximum rainfall in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the annual and monthly 1-day maximum rainfall in Districts of Republican Subordination Oblast for the period 1986 to 2019.

Patterns

About the data

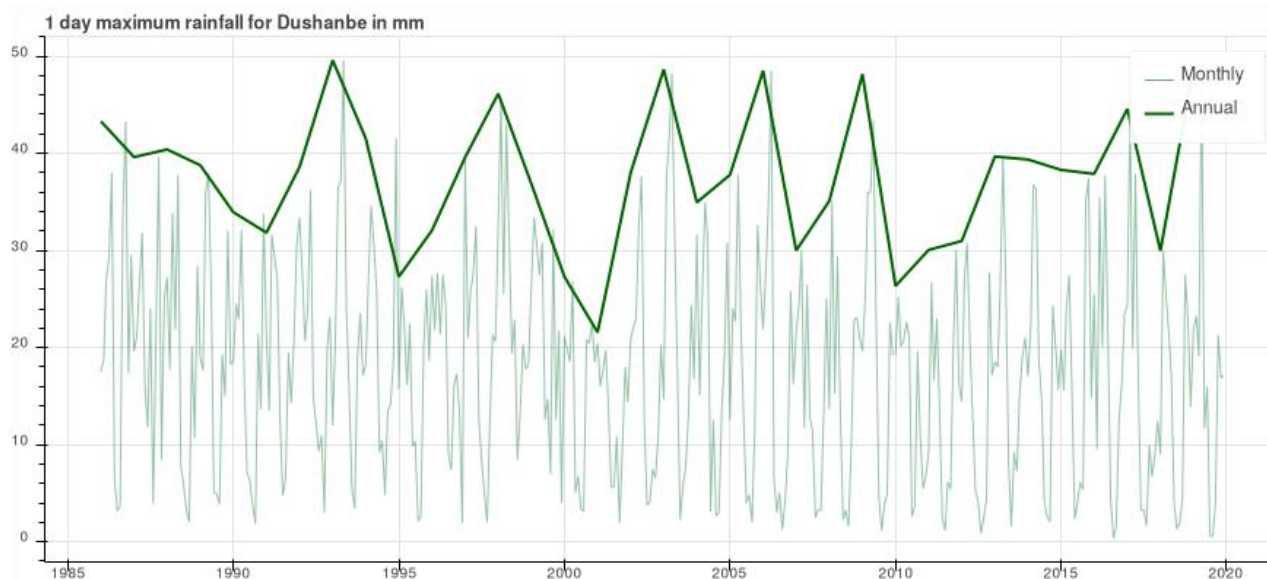
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 1-day maximum rainfall in Dushanbe

Monthly and annual time series of 1-day maximum rainfall in Dushanbe



Location

Dushanbe

Description

This graph presents the annual and monthly 1-day maximum rainfall in Dushanbe Oblast for the period 1986 to 2019.

Patterns

About the data

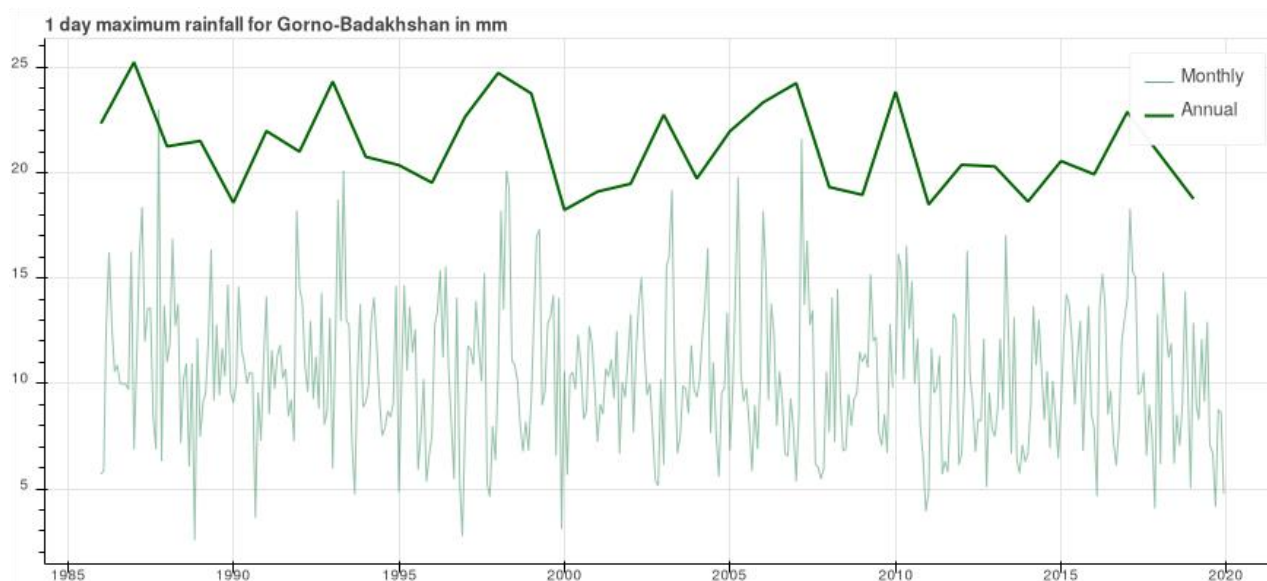
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 1-day maximum rainfall in Gorno-Badakhshan

Monthly and annual time series of 1-day maximum rainfall in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual and monthly 1-day maximum rainfall in Gorno-Badakhshan Oblast for the period 1986 to 2019.

Patterns

About the data

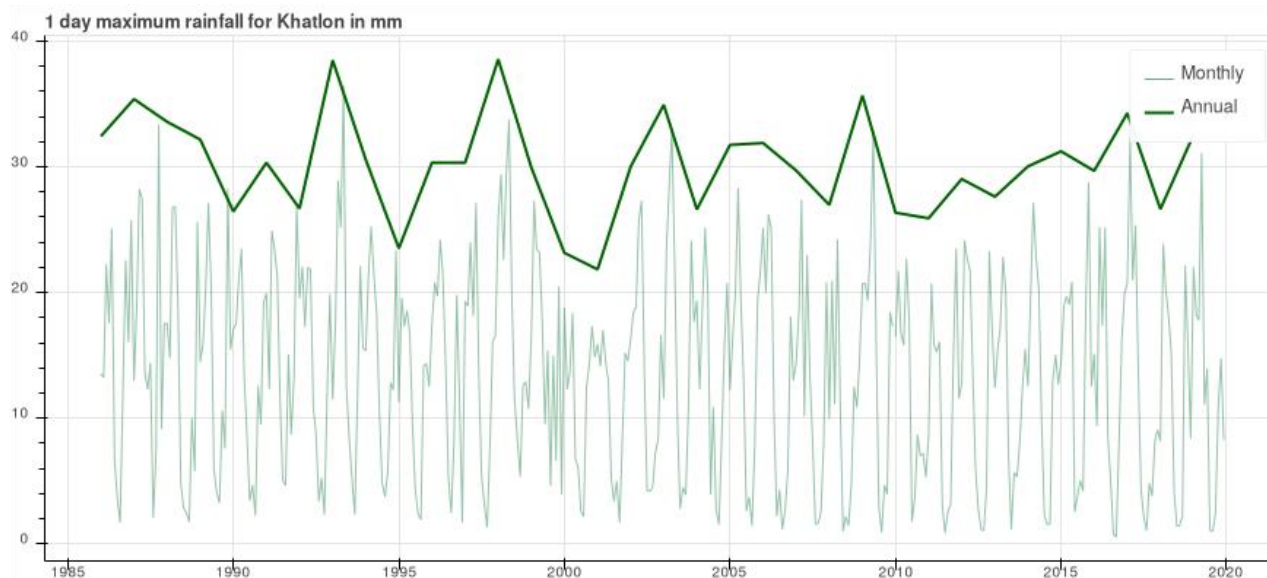
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 1-day maximum rainfall in Khatlon

Monthly and annual time series of 1-day maximum rainfall in Khatlon



Location

Khatlon

Description

This graph presents the annual and monthly 1-day maximum rainfall in Khatlon Oblast for the period 1986 to 2019.

Patterns

About the data

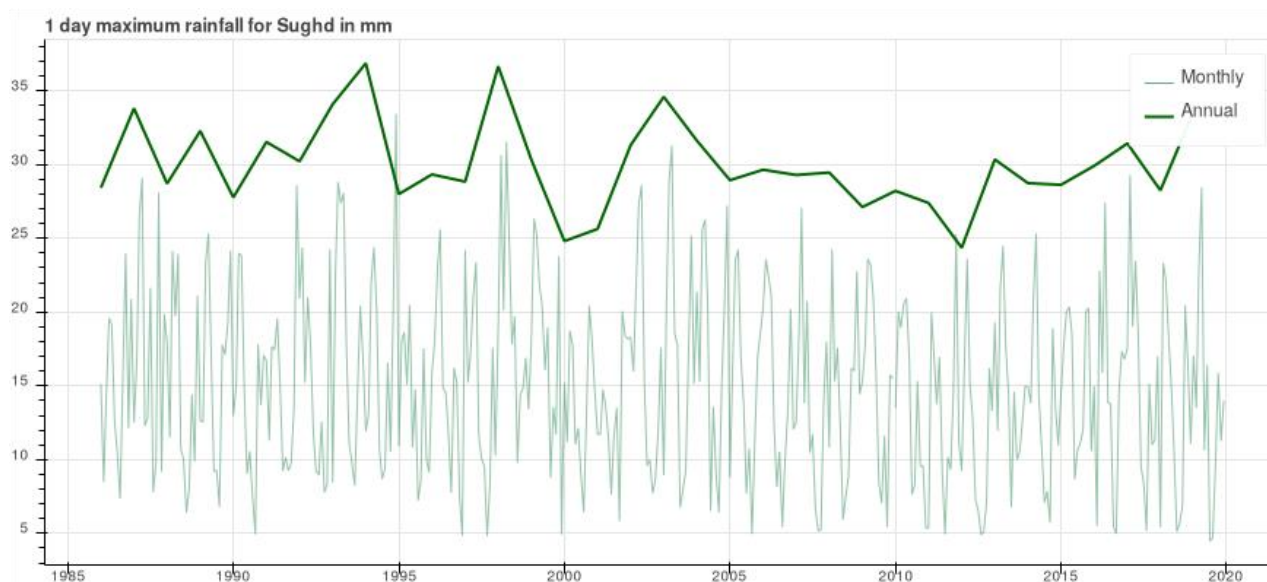
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 1-day maximum rainfall in Sughd

Monthly and annual time series of 1-day maximum rainfall in Sughd



Location

Sughd

Description

This graph presents the annual and monthly 1-day maximum rainfall in Sughd Oblast for the period 1986 to 2019.

Patterns

About the data

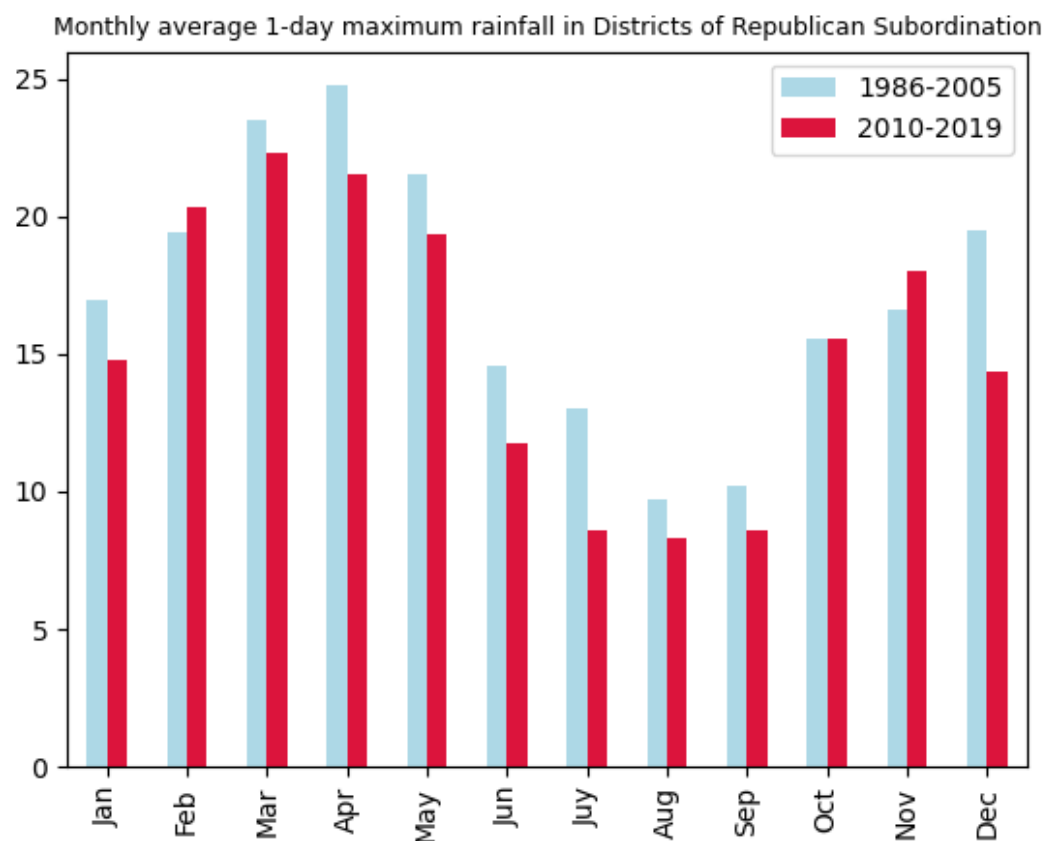
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 1-day maximum rainfall in Districts of Republican Subordination

Monthly average 1-day maximum rainfall in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents monthly average 1-day maximum rainfall the reference period (1986-2005) and the current decade (2010-2019) in Districts of Republican Subordination Oblast.

Patterns

About the data

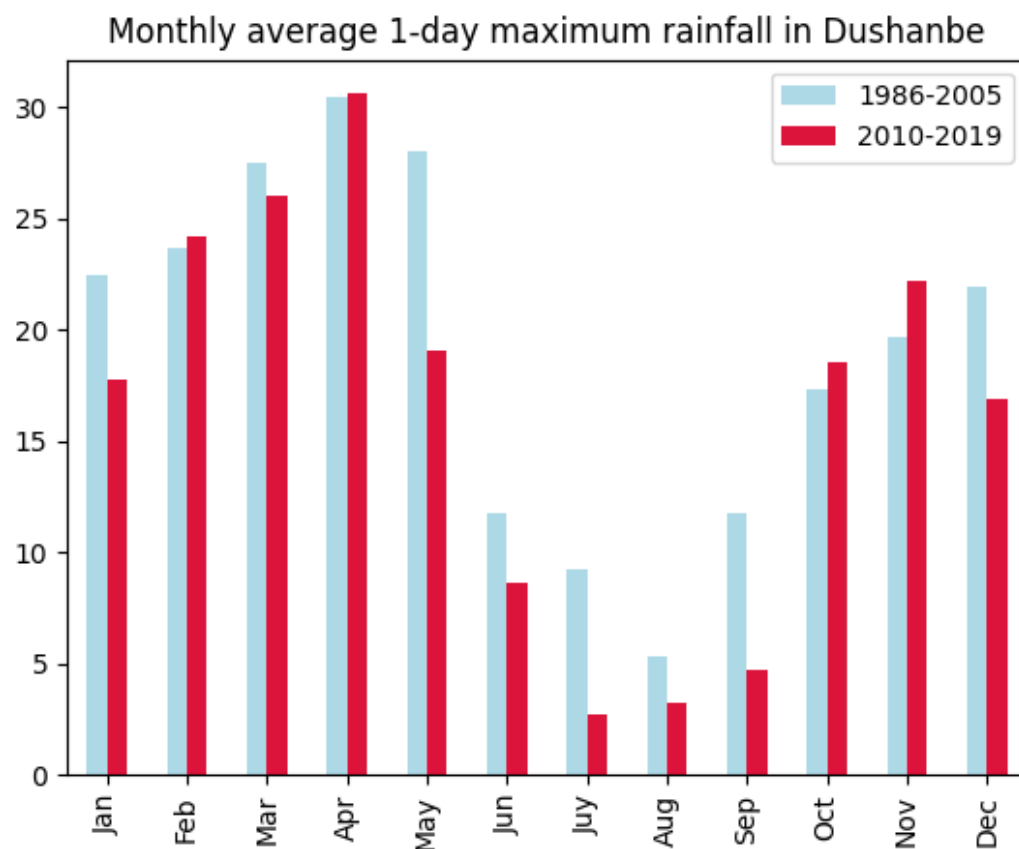
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 1-day maximum rainfall in Dushanbe

Monthly average 1-day maximum rainfall in Dushanbe



Location

Dushanbe

Description

This graph presents monthly average 1-day maximum rainfall the reference period (1986-2005) and the current decade (2010-2019) in Dushanbe Oblast.

Patterns

About the data

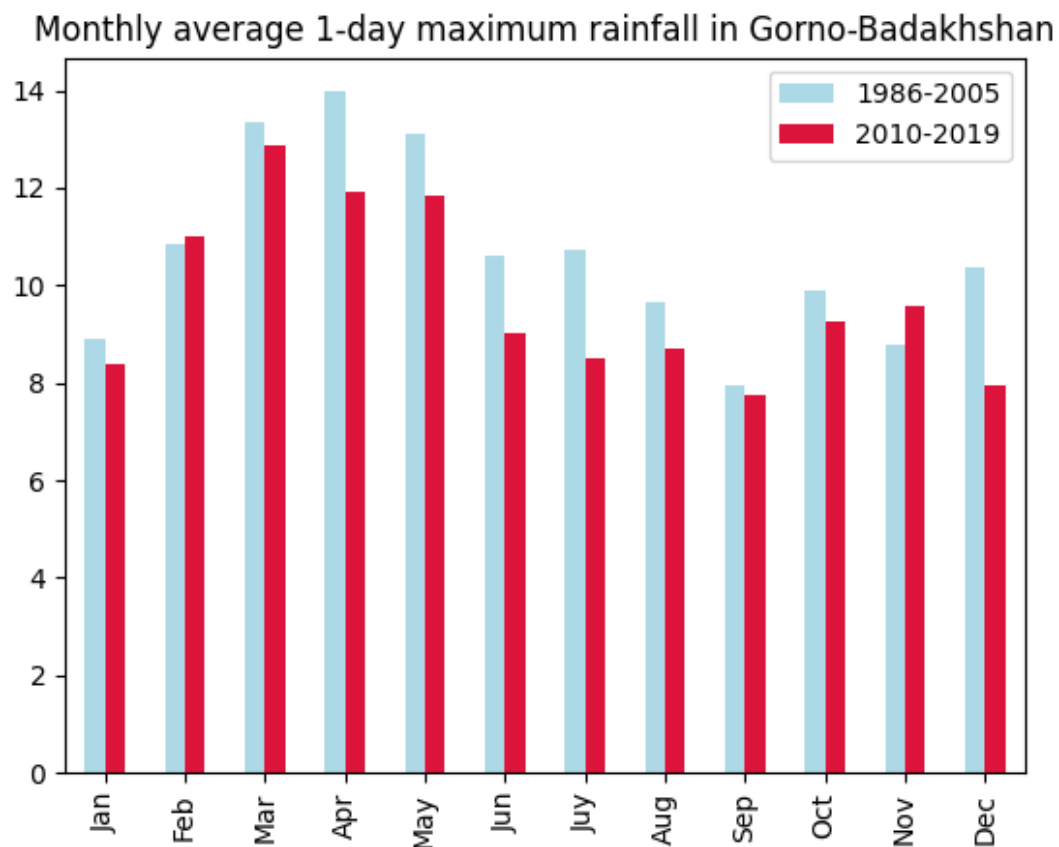
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 1-day maximum rainfall in Gorno-Badakhshan

Monthly average 1-day maximum rainfall in Gorno-Badakhshan



Location

Description

This graph presents monthly average 1-day maximum rainfall the reference period (1986-2005) and the current decade (2010-2019) in Gorno-Badakhshan Oblast.

Patterns

About the data

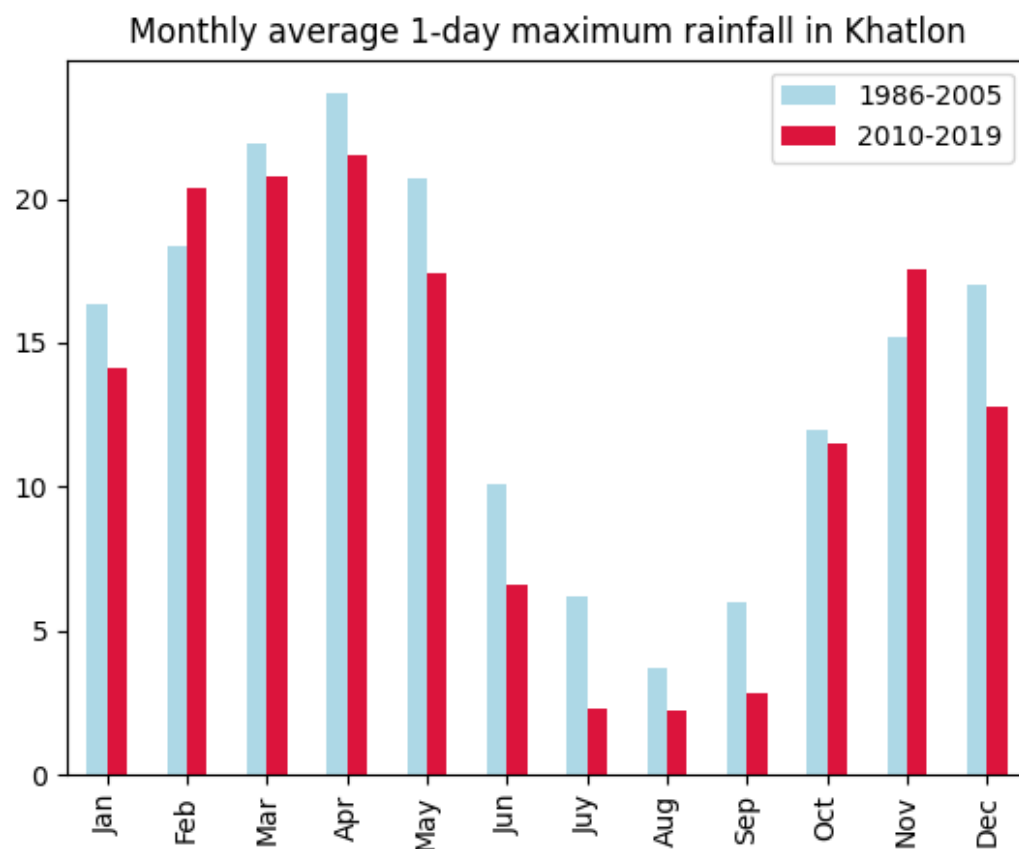
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 1-day maximum rainfall in Khatlon

Monthly average 1-day maximum rainfall in Khatlon



Location

Khatlon

Description

This graph presents monthly average 1-day maximum rainfall the reference period (1986-2005) and the current decade (2010-2019) in Khatlon Oblast.

Patterns

About the data

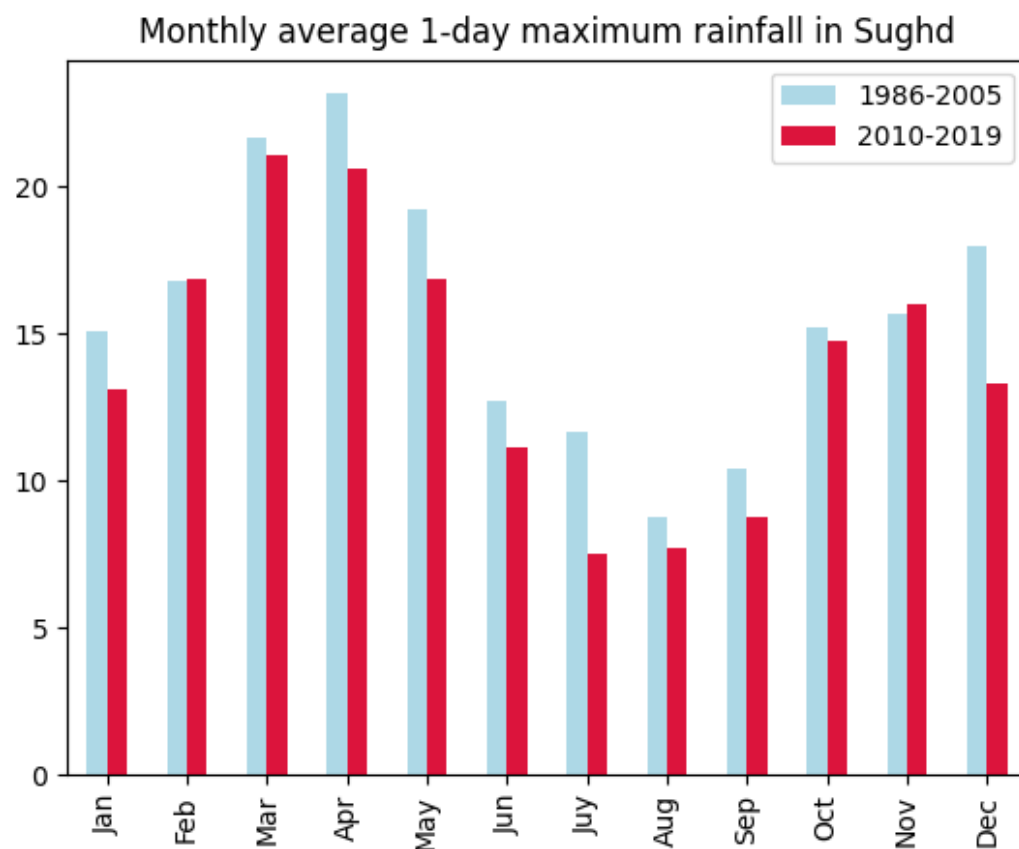
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 1-day maximum rainfall in Sughd

Monthly average 1-day maximum rainfall in Sughd



Location

Sughd

Description

This graph presents monthly average 1-day maximum rainfall the reference period (1986-2005) and the current decade (2010-2019) in Sughd Oblast.

Patterns

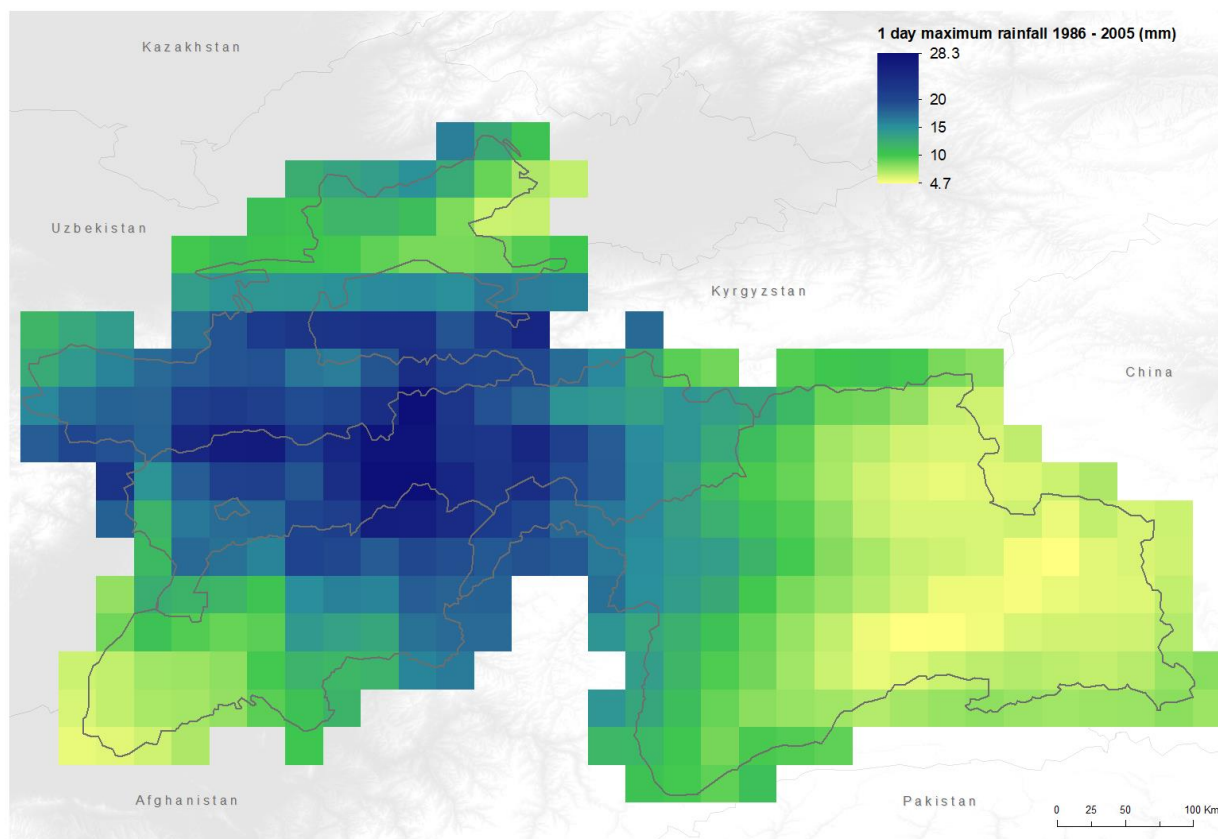
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

1-day maximum rainfall, 1986 - 2005



Location

Tajikistan

Description

This map shows average 1-day maximum rainfall for the reference period (1986-2005).

Patterns

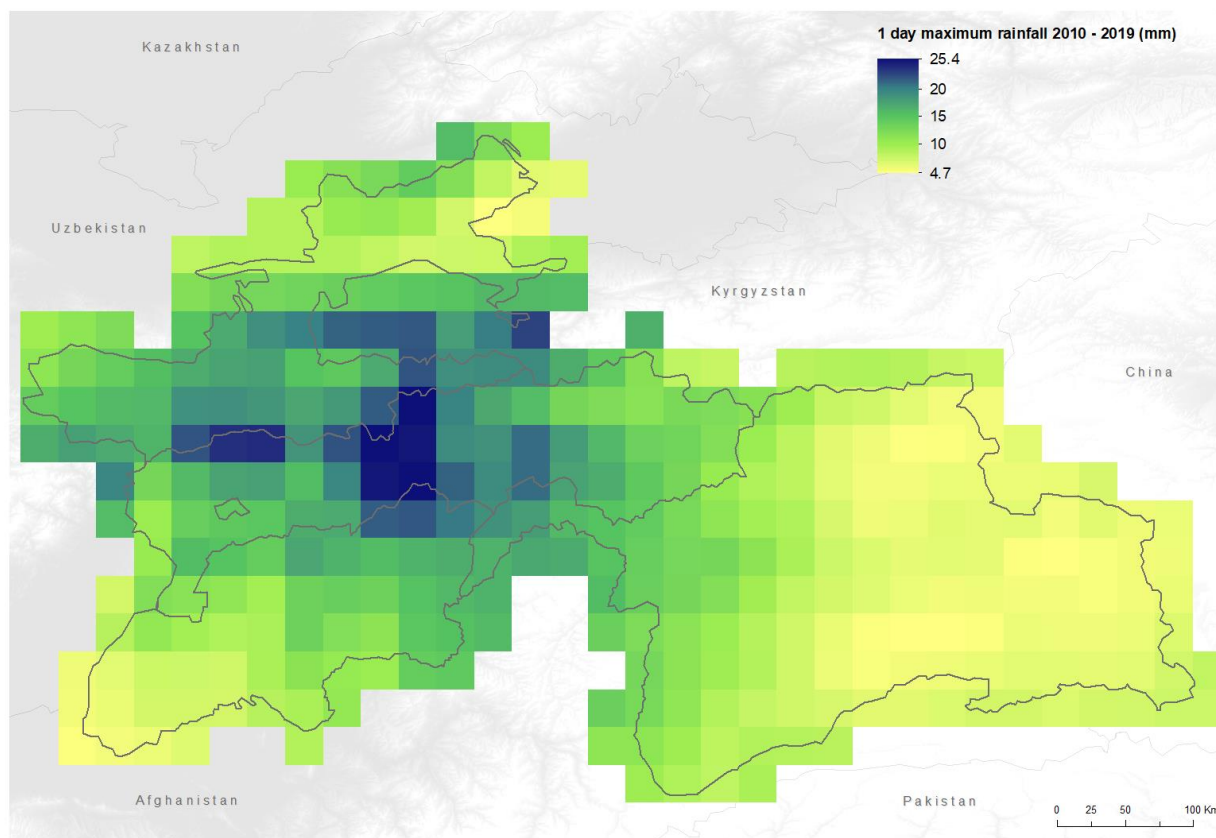
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

1-day maximum rainfall during the current decade



Location

Tajikistan

Description

This map shows the averaged values of 1-day maximum rainfall for the current decade (2010-2019).

Patterns

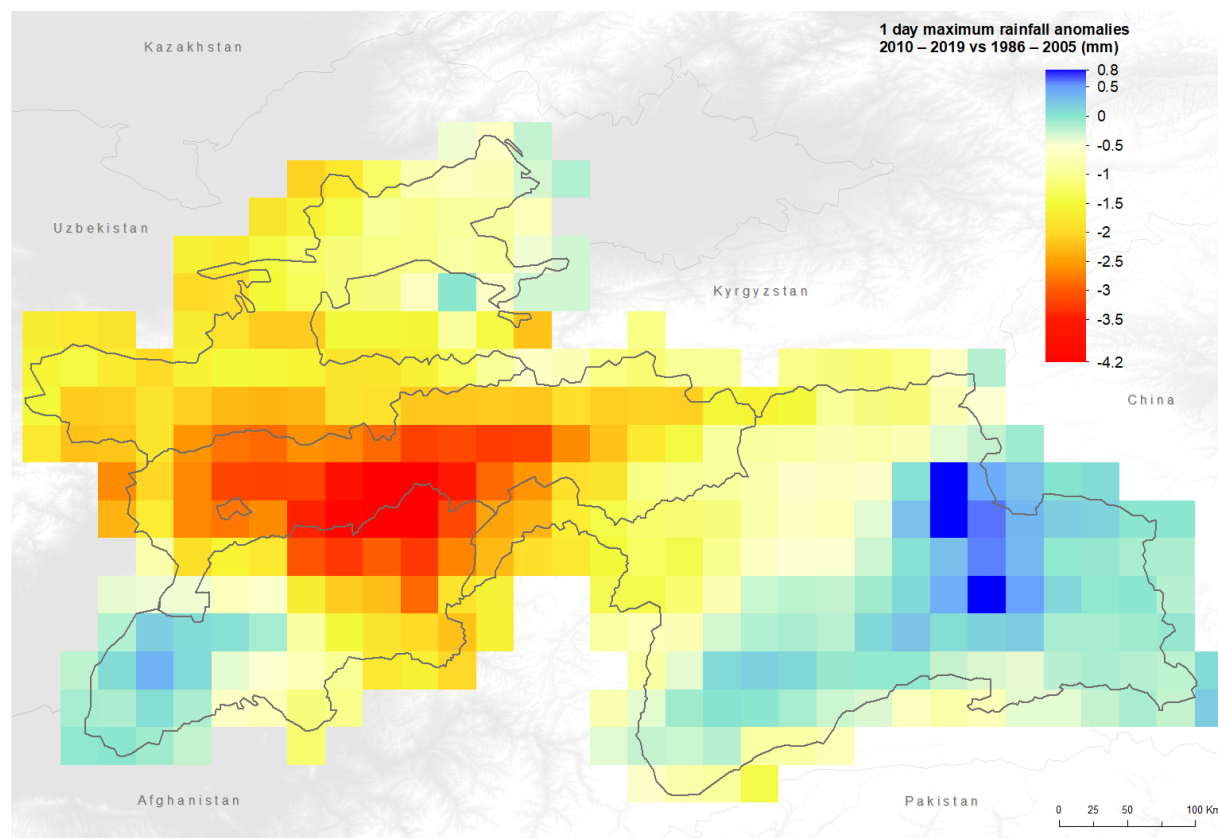
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

1-day maximum rainfall anomalies



Location

Tajikistan

Description

This map shows the difference in average 1-day maximum rainfall for the current decade (2010-2019) versus the reference climatology period (1986-2005).

Patterns

About the data

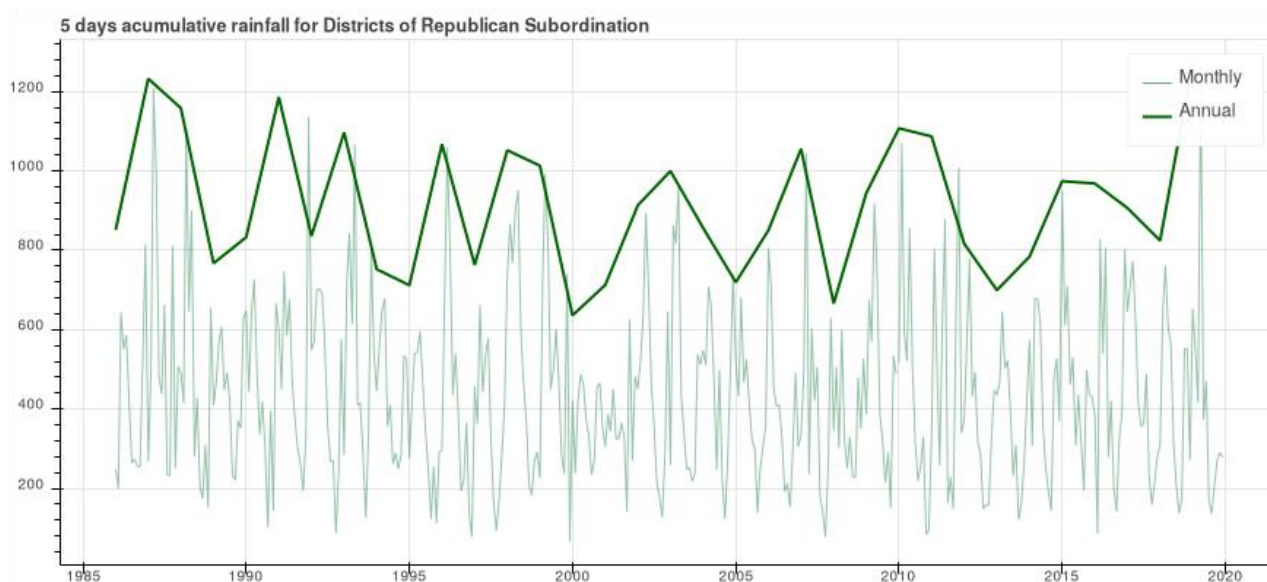
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 5-days accumulated rainfall in Districts of Republican Subordination

Monthly and annual time series of 5-days accumulated rainfall in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the annual and monthly 5-days accumulated rainfall in Districts of Republican Subordination Oblast for the period 1986 to 2019.

Patterns

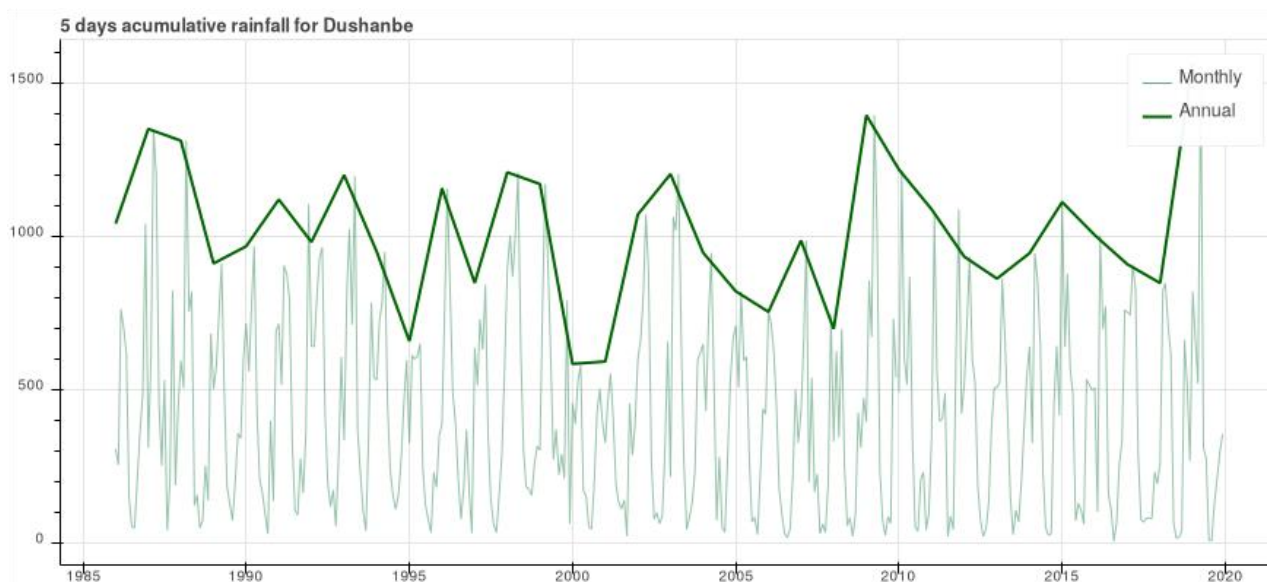
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly and annual time series of 5-days accumulated rainfall in Dushanbe



Location

Dushanbe

Description

This graph presents the annual and monthly 5-days accumulated rainfall in Dushanbe Oblast for the period 1986 to 2019.

Patterns

About the data

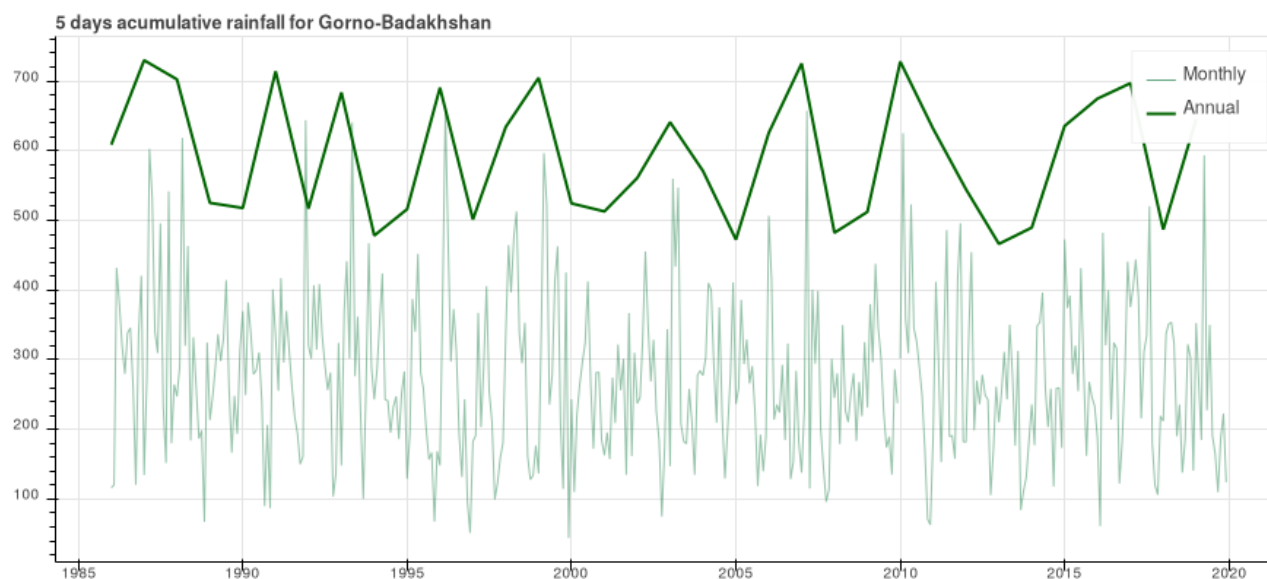
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 5-days accumulated rainfall in Gorno-Badakhshan

Monthly and annual time series of 5-days accumulated rainfall in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual and monthly 5-days accumulated rainfall in Gorno-Badakhshan Oblast for the period 1986 to 2019.

Patterns

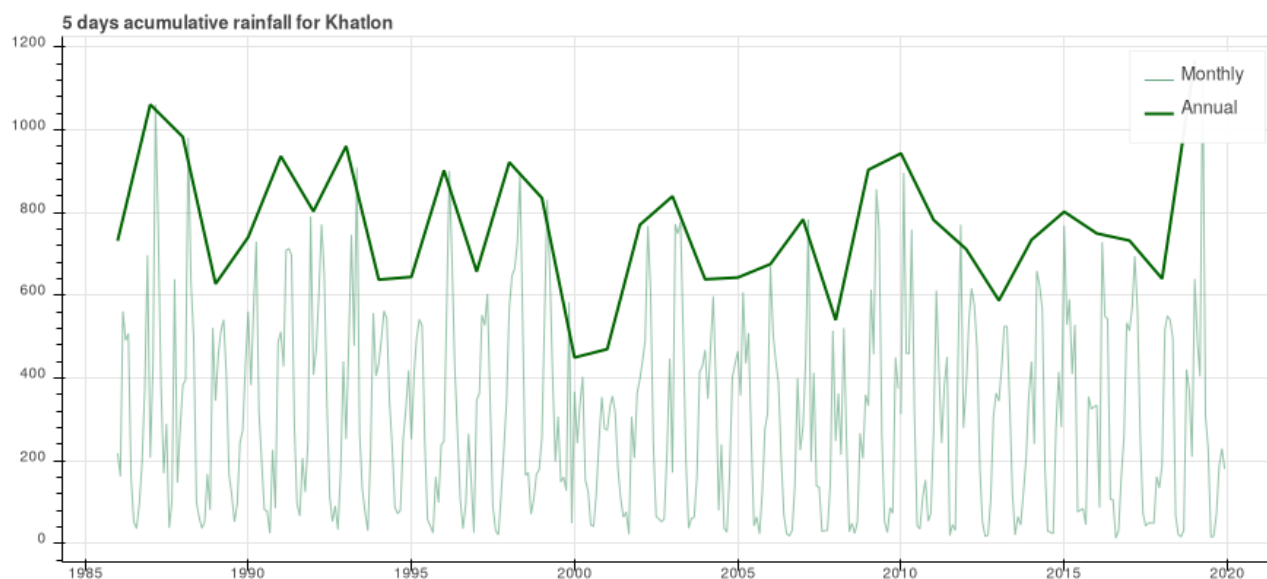
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly and annual time series of 5-days accumulated rainfall in Khatlon



Location

Khatlon

Description

This graph presents the annual and monthly 5-days accumulated rainfall in Khatlon Oblast for the period 1986 to 2019.

Patterns

About the data

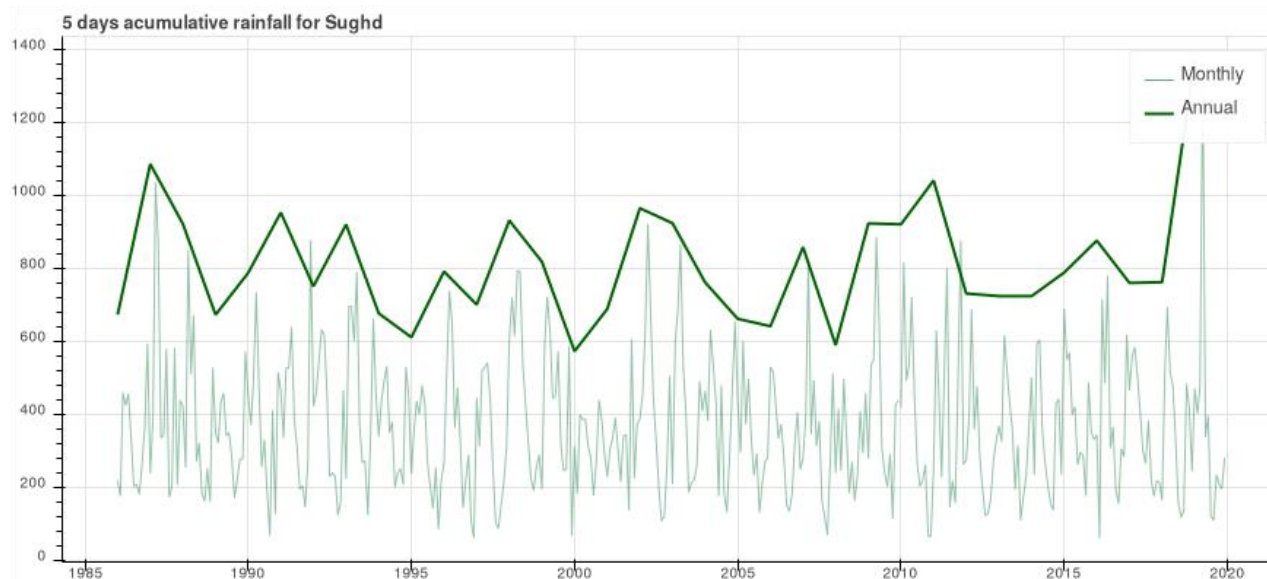
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of 5-days accumulated rainfall in Sughd

Monthly and annual time series of 5-days accumulated rainfall in Sughd



Location

Sughd

Description

This graph presents the annual and monthly 5-days accumulated rainfall in Sughd Oblast for the period 1986 to 2019.

Patterns

About the data

Prepared by EO4SD CR cluster

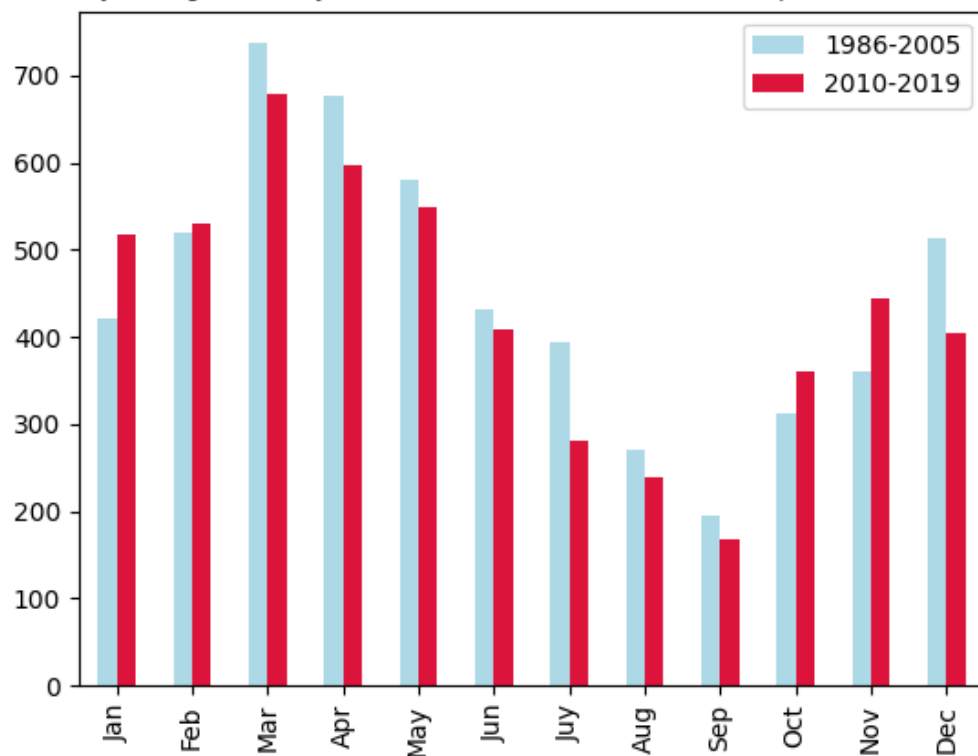
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 5-days accumulated rainfall in Districts of Republican Subordination

Monthly averages of 5-days accumulated rainfall in Districts of Republican Subordination

Monthly averages of 5-days accumulated rainfall in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the monthly averages of 5-days accumulated rainfall for the current decade (2010-2019) relative to the reference period (1986-2005) in Districts of Republican Subordination Oblast.

Patterns

About the data

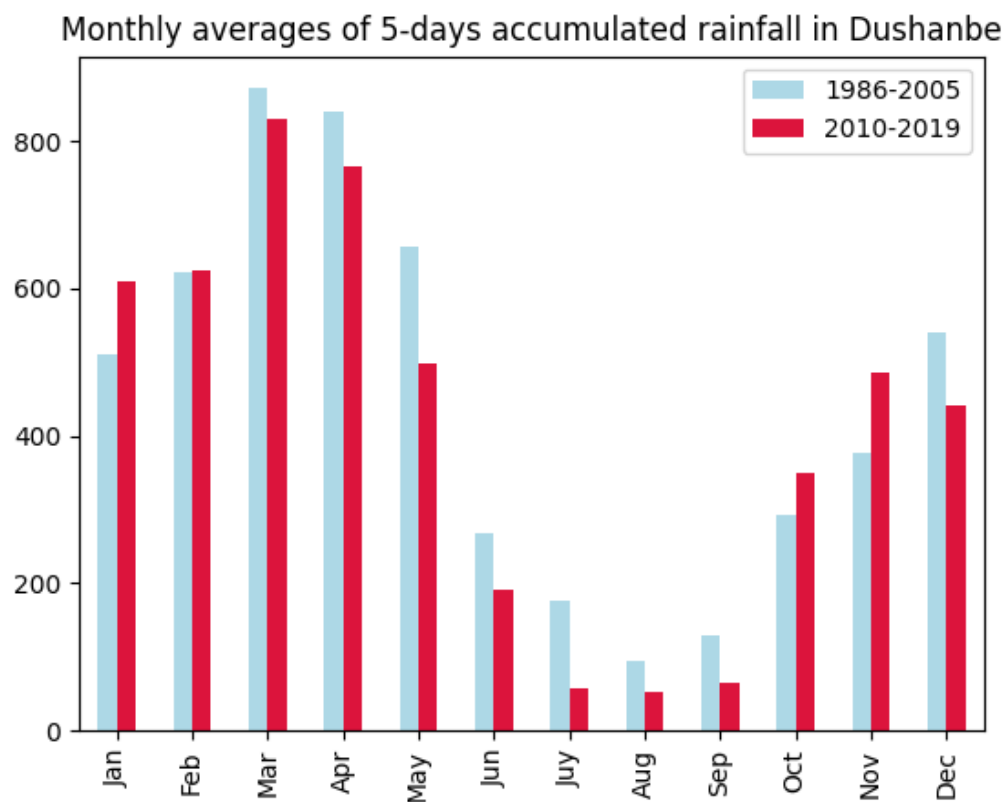
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 5-days accumulated rainfall in Dushanbe

Monthly averages of 5-days accumulated rainfall in Dushanbe



Location

Dushanbe

Description

This graph presents the monthly averages of 5-days accumulated rainfall for the current decade (2010-2019) relative to the reference period (1986-2005) in Dushanbe Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

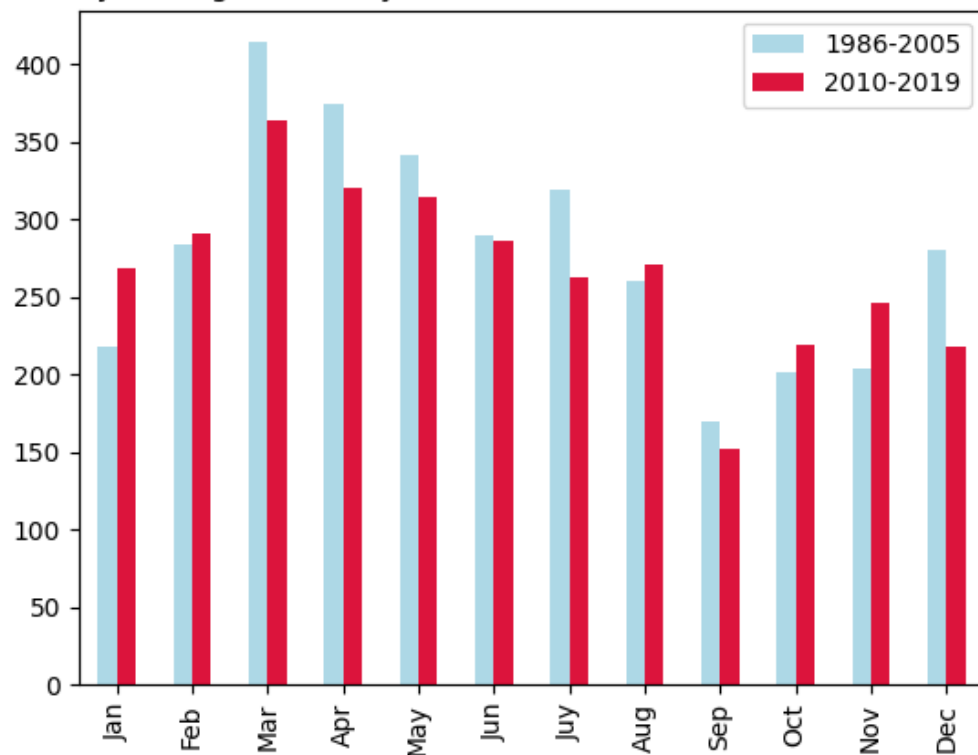
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 5-days accumulated rainfall in Gorno-Badakhshan

Monthly averages of 5-days accumulated rainfall in Gorno-Badakhshan

Monthly averages of 5-days accumulated rainfall in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the monthly averages of 5-days accumulated rainfall for the current decade (2010-2019) relative to the reference period (1986-2005) in Gorno-Badakhshan Oblast.

Patterns

About the data

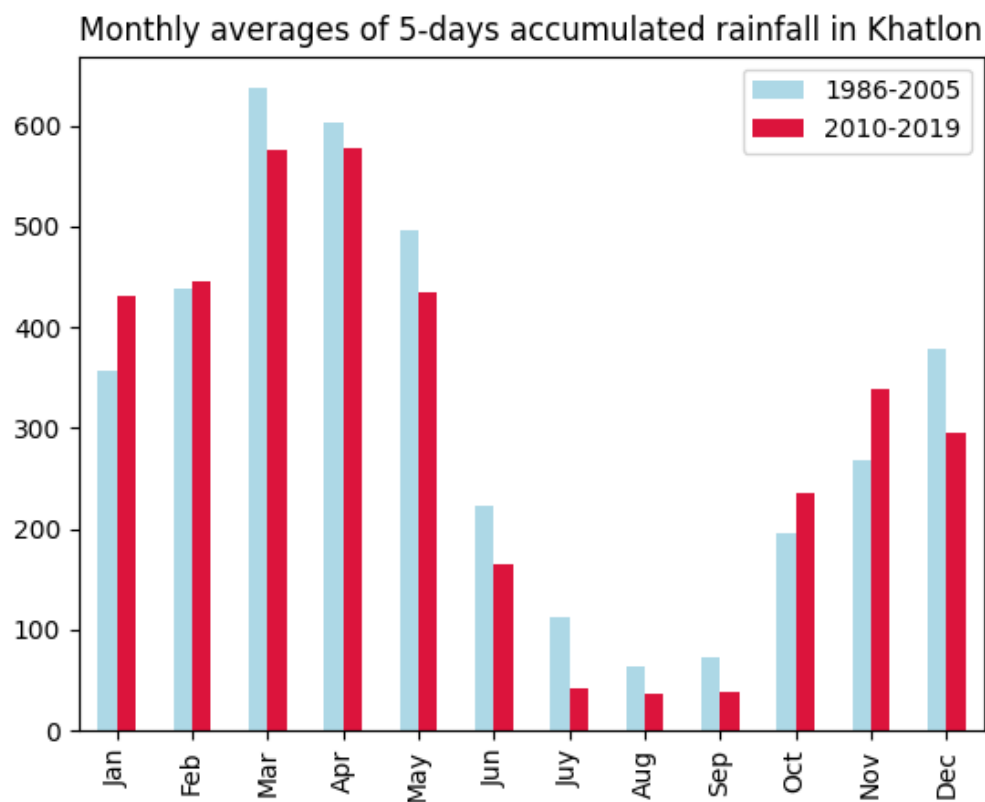
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 5-days accumulated rainfall in Khatlon

Monthly averages of 5-days accumulated rainfall in Khatlon



Location

Khatlon

Description

This graph presents the monthly averages of 5-days accumulated rainfall for the current decade (2010-2019) relative to the reference period (1986-2005) in Khatlon Oblast.

Patterns

About the data

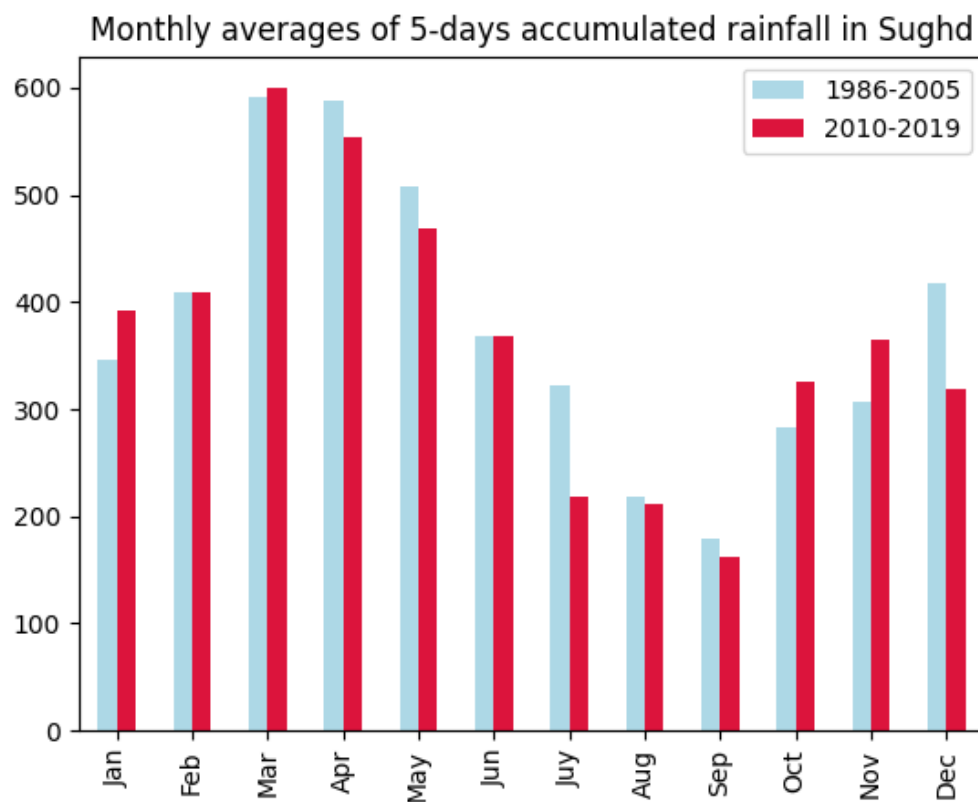
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 5-days accumulated rainfall in Sughd

Monthly averages of 5-days accumulated rainfall in Sughd



Location

Sughd

Description

This graph presents the monthly averages of 5-days accumulated rainfall for the current decade (2010-2019) relative to the reference period (1986-2005) in Sughd Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: 5-days accumulated rainfall for reference period

5-days accumulated rainfall during the reference period

Location

Tajikistan

Description

This map shows the averaged values of 5-days accumulated rainfall for the climate reference period (1986-2005).

Patterns

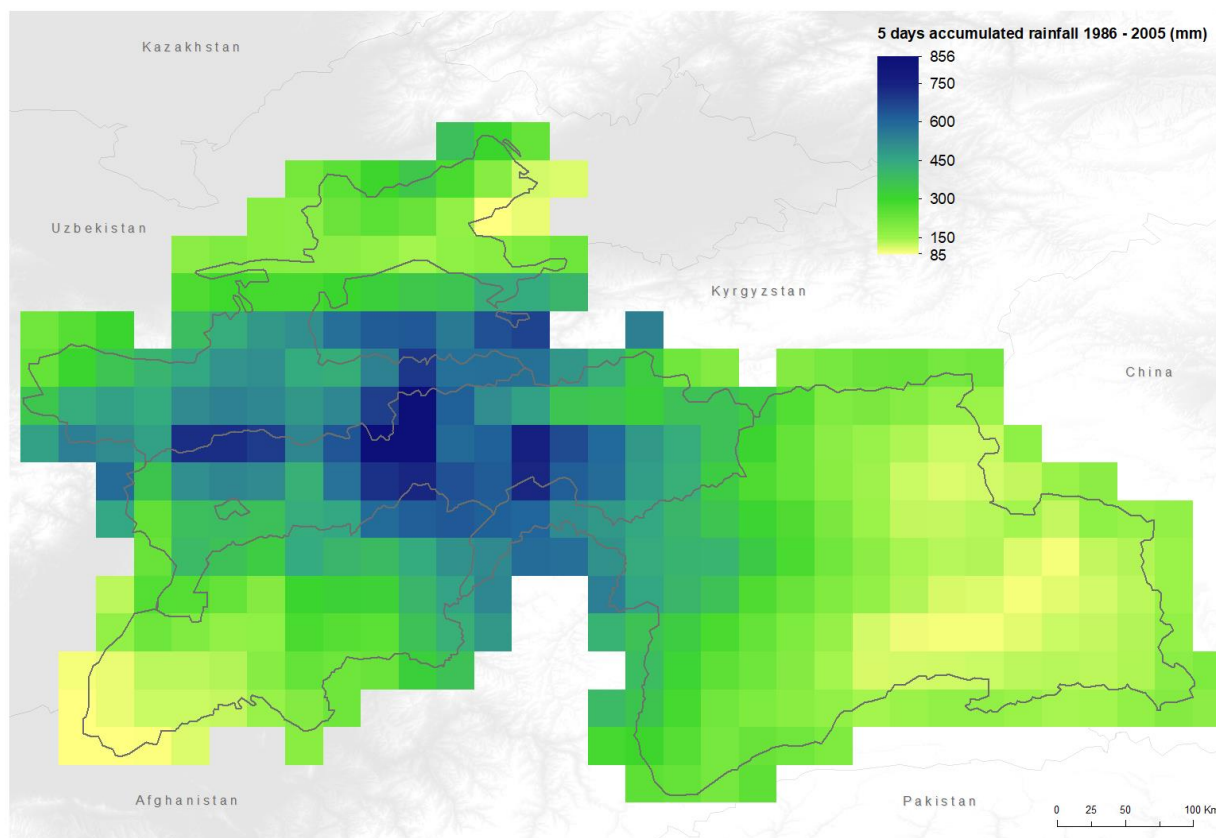
5-day accumulated rainfall across Tajikistan is typically between 150mm to 450mm. However, when taking into account the extremes, 5-day accumulated rainfall ranges from 85mm in southwest Khatlon and southeast Gorno-Badakhshan to 856mm in central Districts of Republican Subordination and eastern Sukhd regions. The highest rainfall volumes are generally observed in an area west of the Pamirs from southern Sukhd toward northern Khatlon.

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Climate Data Summary: 5-days maximum rainfall for current decade

5-days maximum rainfall during the current decade

Location

Tajikistan

Description

This map shows the averaged values of 5-days accumulated rainfall for the current decade (2010-2019).

Patterns

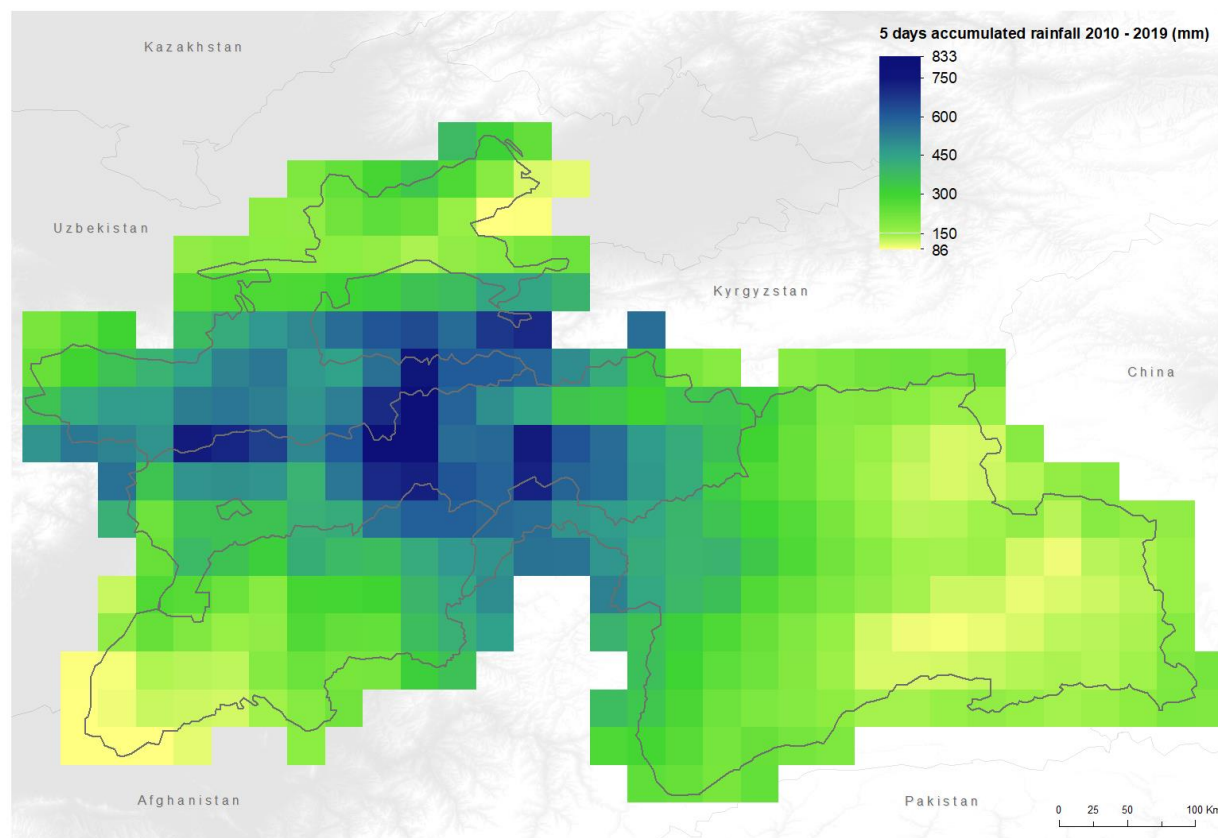
Typical 5-day accumulated rainfall across Tajikistan is between 150mm to 400mm. However, when taking into account the extremes, 5-day accumulated rainfall ranges from 86mm in southwest Khatlon and southeast Gorno-Badakhshan to 833mm in central Districts of Republican Subordination and eastern Sukhd regions. The highest rainfall volumes are generally observed in an area west of the Pamirs from southern Sukhd toward northern Khatlon.

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



5-days accumulated rainfall anomalies

Location

Tajikistan

Description

This map shows the differences between the averaged 5-days accumulated rainfall values for the climate reference period (1986-2005) and the current decade (2010-2019).

Patterns

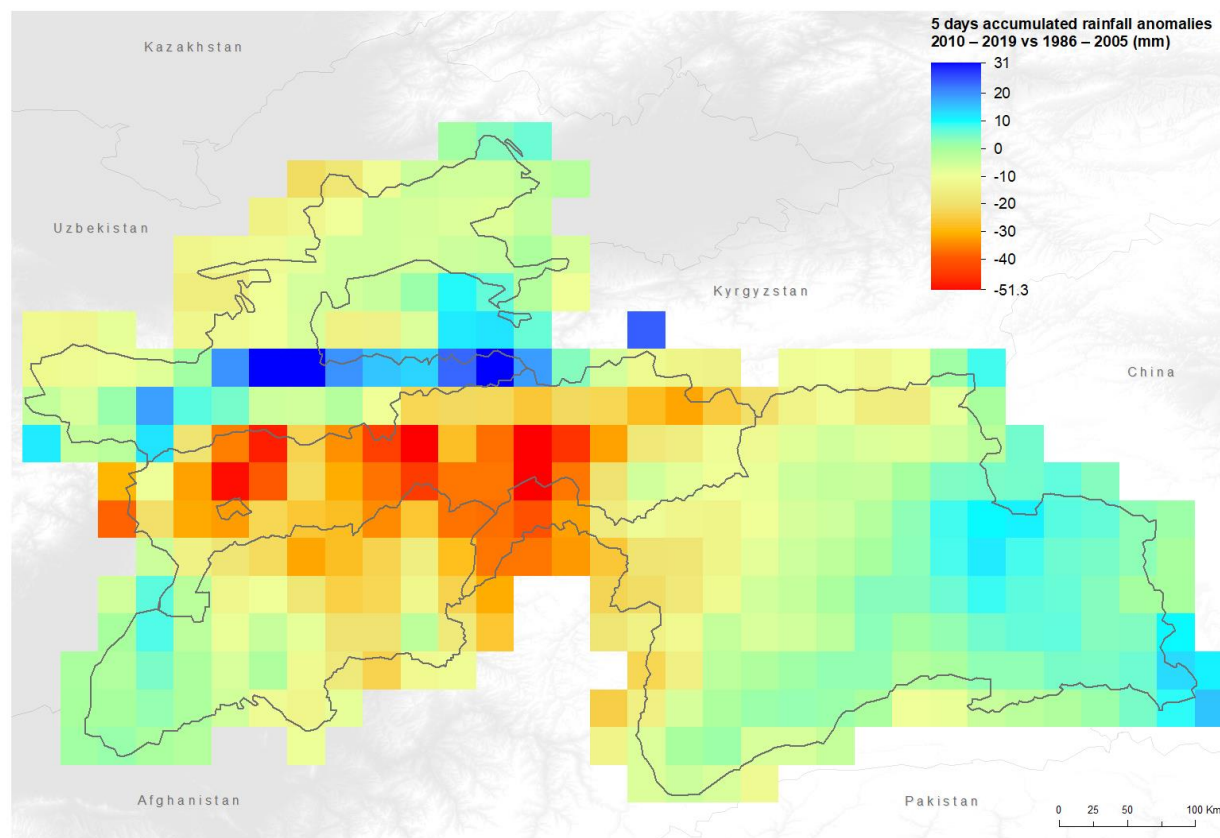
Divergent trends in accumulated 5-day rainfall have been observed across Tajikistan, ranging from a decrease of -51mm to an increase of 31mm. Around one third of the country has experienced an increase in accumulated precipitation, notably in southern Khatlon and central and eastern Gorno-Badakhshan, with the largest increase along an east-west belt in southern Sukhd region (+15 to +31mm). Overall, this increase is generally more moderate than the decrease in accumulated rainfall observed in the wettest areas. A decrease of -20 to -51mm has been observed across almost all the Districts of Republican Subordination region, as well as in western Gorno-Badakhshan and central and northern Khatlon.

About the data

Prepared by EO4SD CR cluster

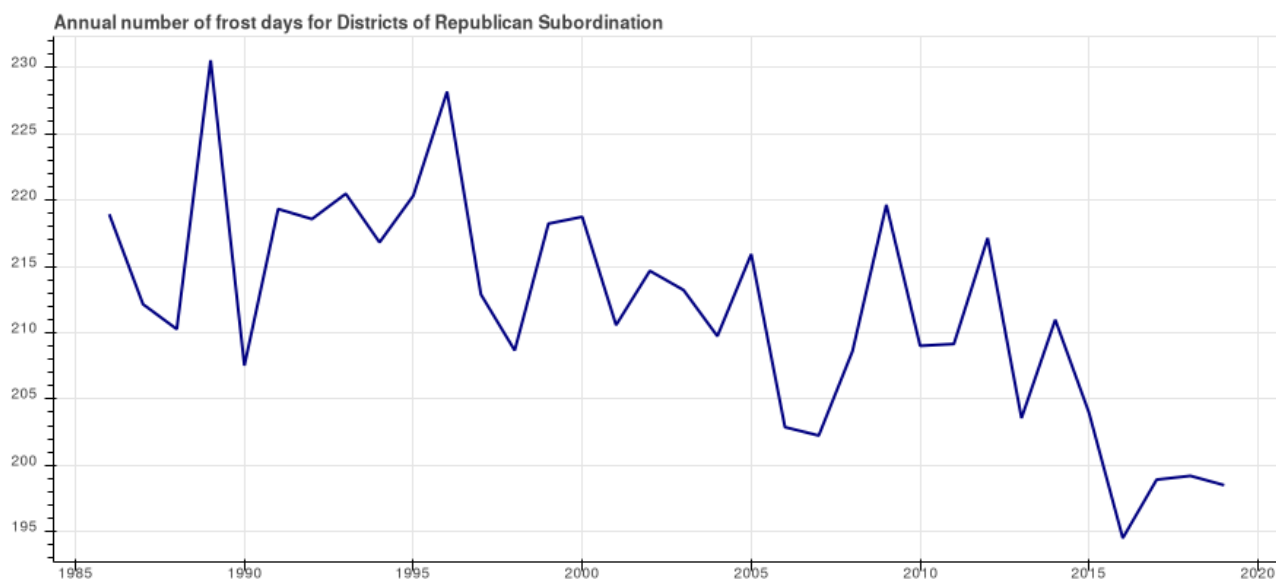
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Climate Data Summary: Annual no. frost days in Districts of Republican Subordination, 1986 – 2019

Annual no. frost days in Districts of Republican Subordination, 1986 - 2019



Location

Districts of Republican Subordination

Description

This graph presents the annual number of frost days (minimum temperature <0 deg. C) from 1986 - 2019 for Districts of Republican Subordination Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Annual no. frost days in Dushanbe, 1986 – 2019

Annual no. frost days in Dushanbe, 1986 - 2019



Location

Dushanbe

Description

This graph presents the annual number of frost days (minimum temperature <0 deg. C) from 1986 - 2019 for Dushanbe Oblast.

Patterns

About the data

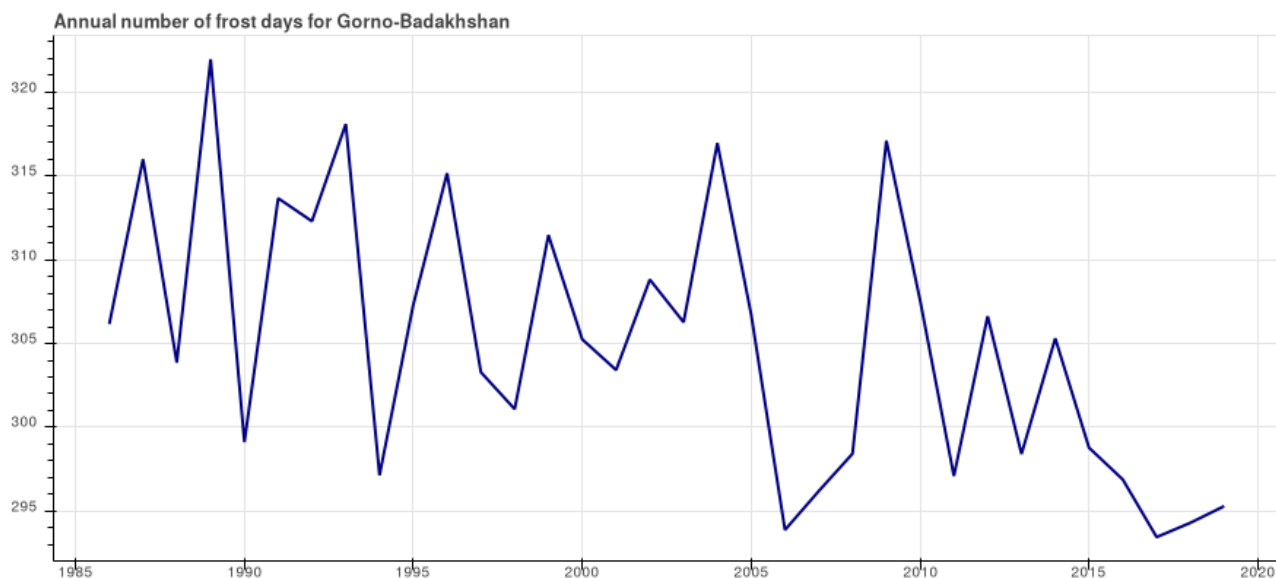
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Annual no. frost days in Gorno-Badakhshan, 1986 – 2019

Annual no. frost days in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual number of frost days (minimum temperature <0 deg. C) from 1986 - 2019 for Gorno-Badakhshan Oblast.

Patterns

About the data

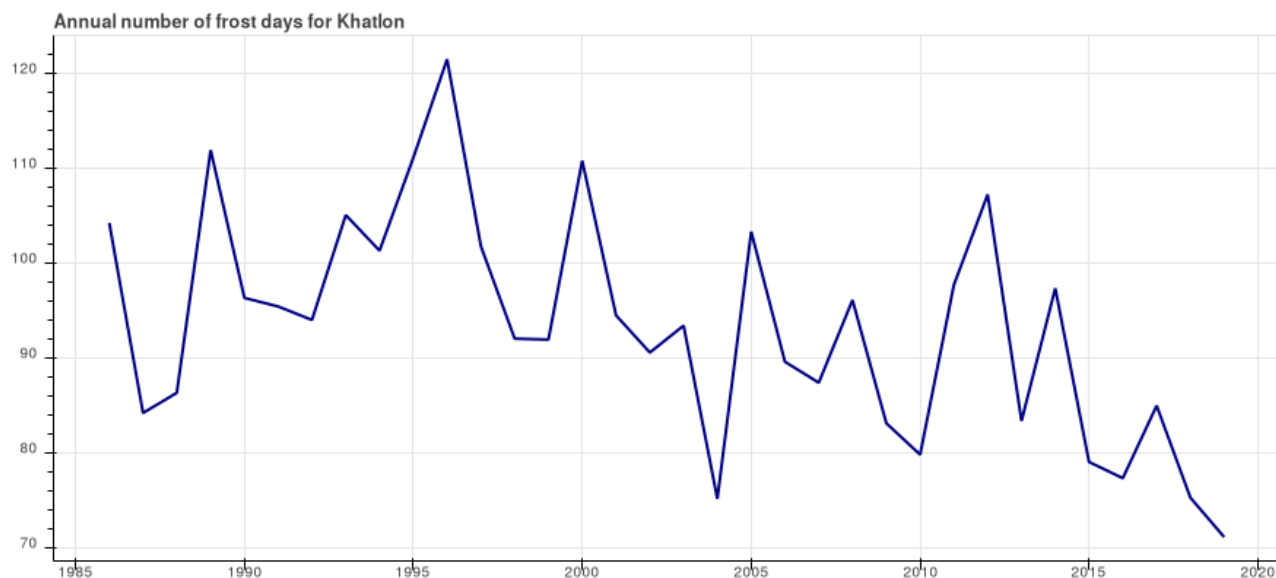
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Annual no. frost days in Khatlon, 1986 – 2019

Annual no. frost days in Khatlon, 1986 - 2019



Location

Khatlon

Description

This graph presents the annual number of frost days (minimum temperature <0 deg. C) from 1986 - 2019 for Khatlon Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Annual no. frost days in Sughd, 1986 – 2019

Annual no. frost days in Sughd



Location

Sughd

Description

This graph presents the annual number of frost days (minimum temperature <0 deg. C) from 1986 - 2019 for Sughd Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Annual number of frost days during reference period

Location

Tajikistan

Description

This map shows the annual number of frost days during the reference period (1986-2005).

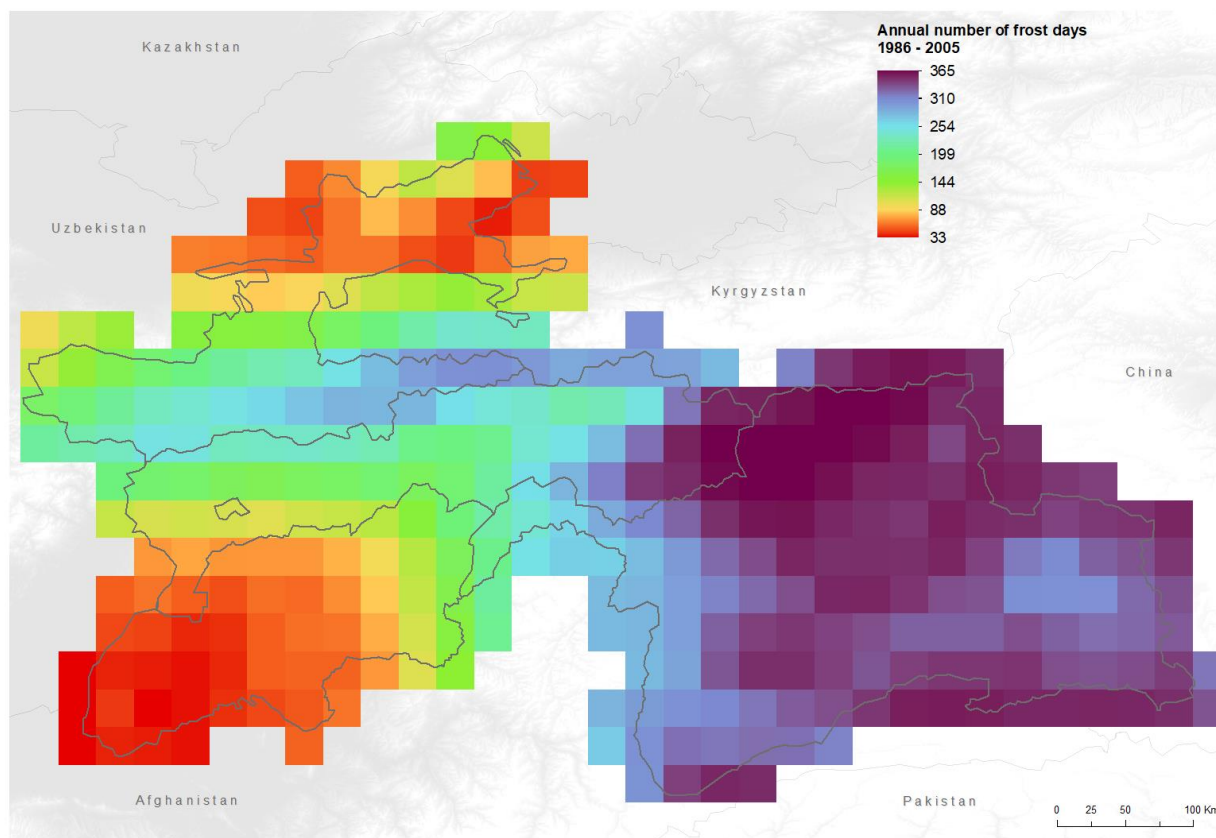
Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Annual number of frost days during current decade

Location

Tajikistan

Description

This map shows the annual number of air frost days during the current decade (2010-2019).

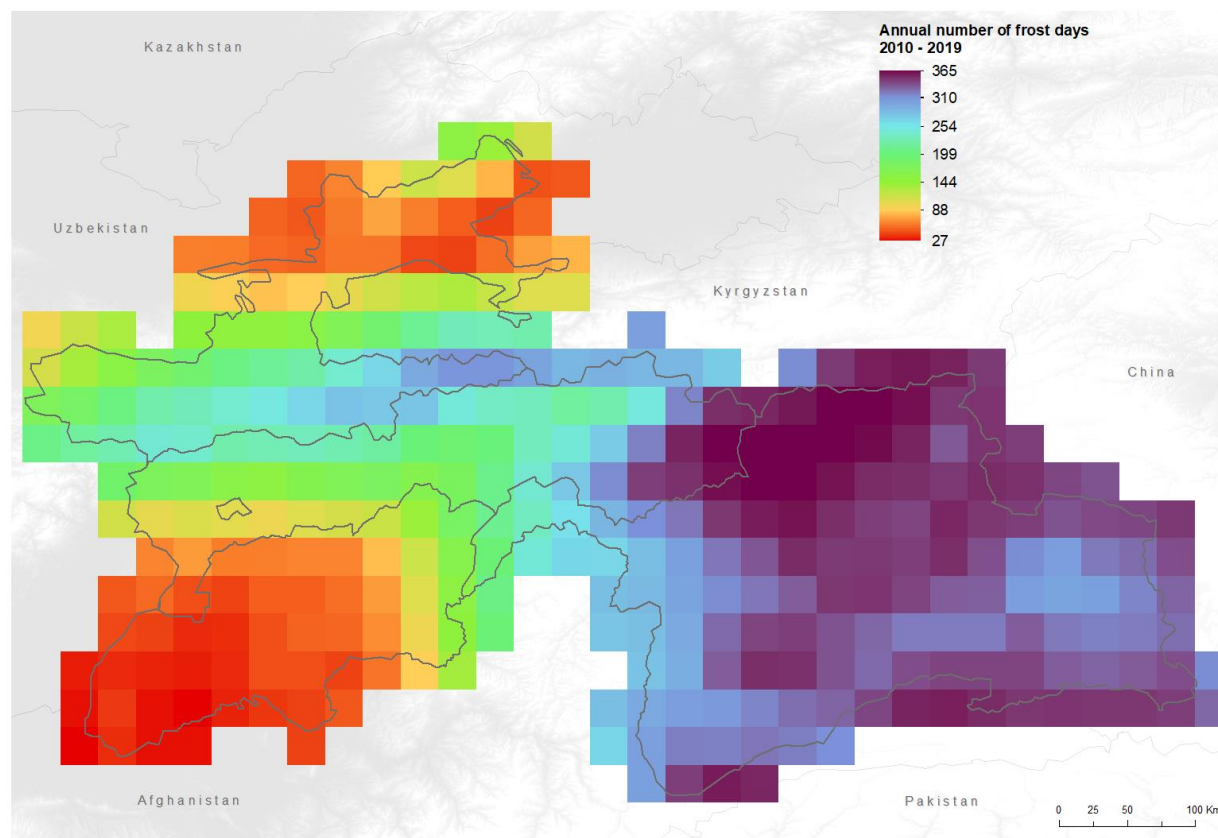
Patterns

About the data

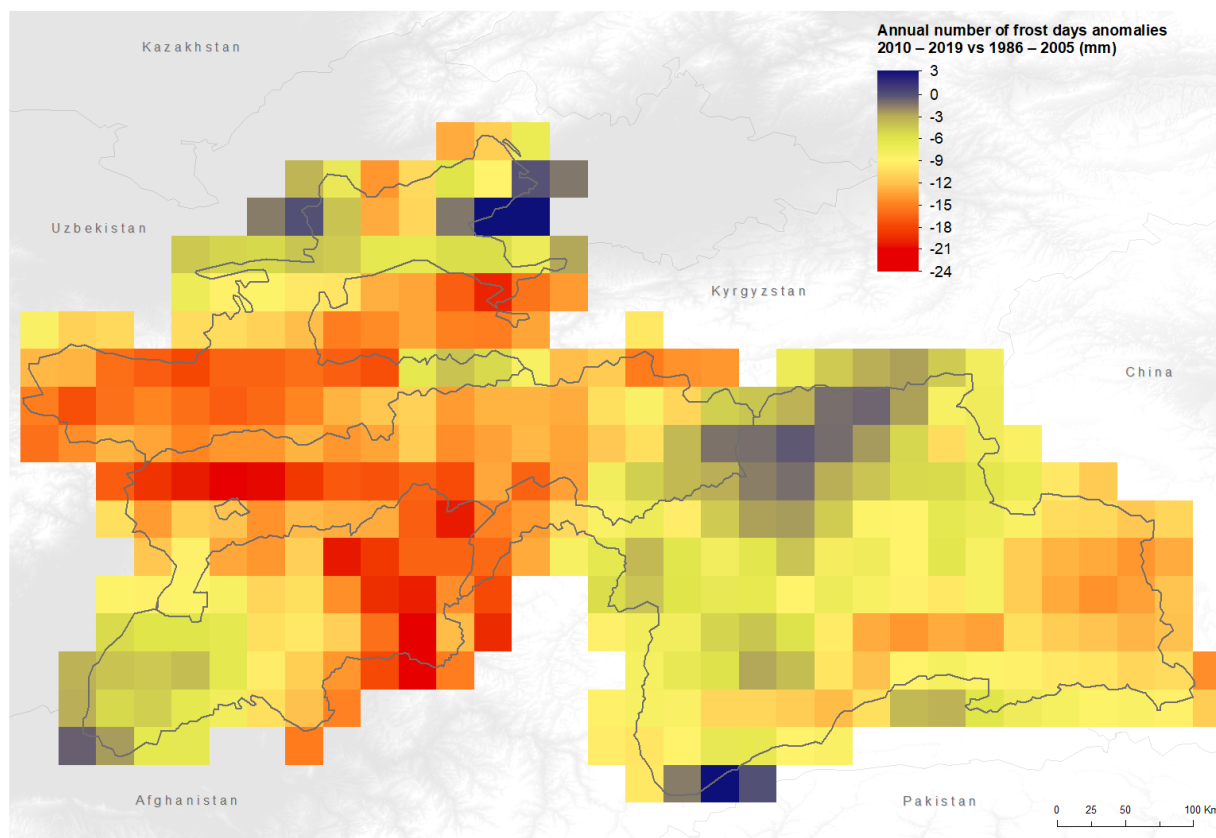
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Annual number of frost days: anomalies



Location

Tajikistan

Description

This map shows the difference in the annual number of frost days during the current decade (2010-2019) versus reference period (1986-2005).

Patterns

About the data

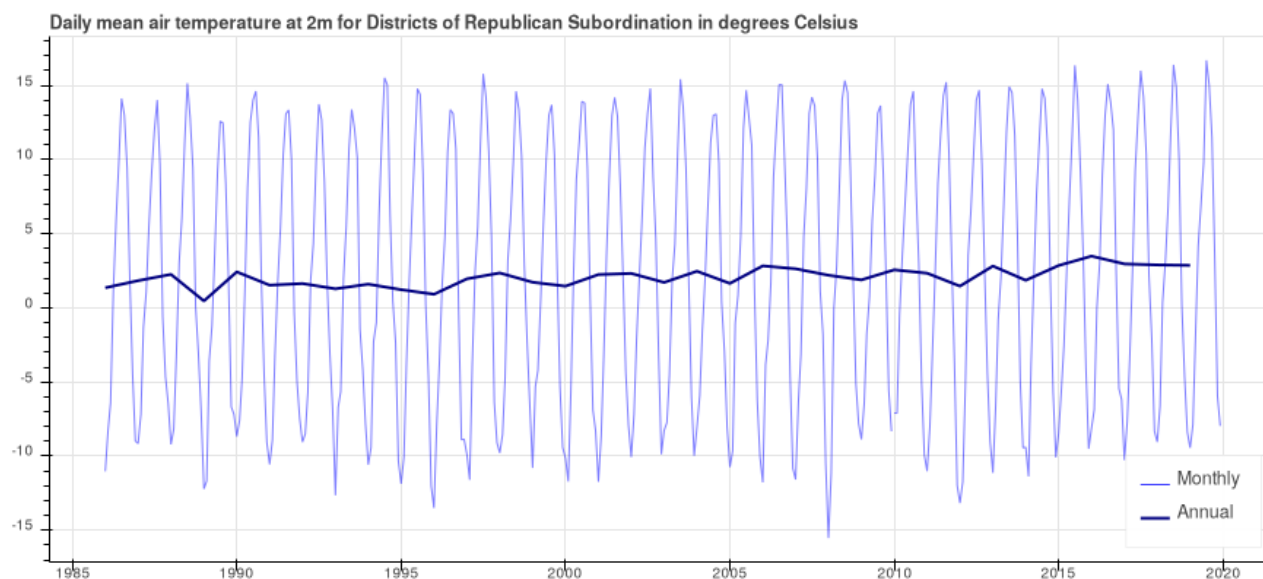
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily mean temperature in Districts of Republican Subordination

Monthly and annual time series of daily mean temperature Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the annual and monthly values of the daily mean temperatures in Districts of Republican Subordination Oblast for the period 1986 to 2019.

Patterns

About the data

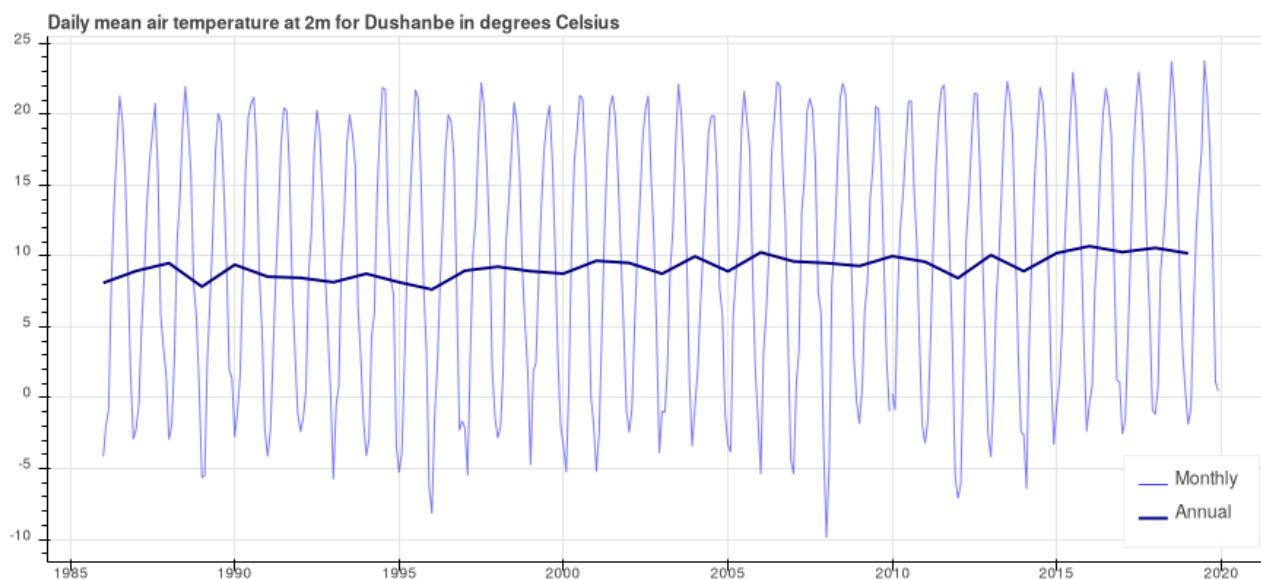
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily mean temperature in Dushanbe

Monthly and annual time series of daily mean temperature Dushanbe



Location

Dushanbe

Description

This graph presents the annual and monthly values of the daily mean temperatures in Dushanbe Oblast for the period 1986 to 2019.

Patterns

About the data

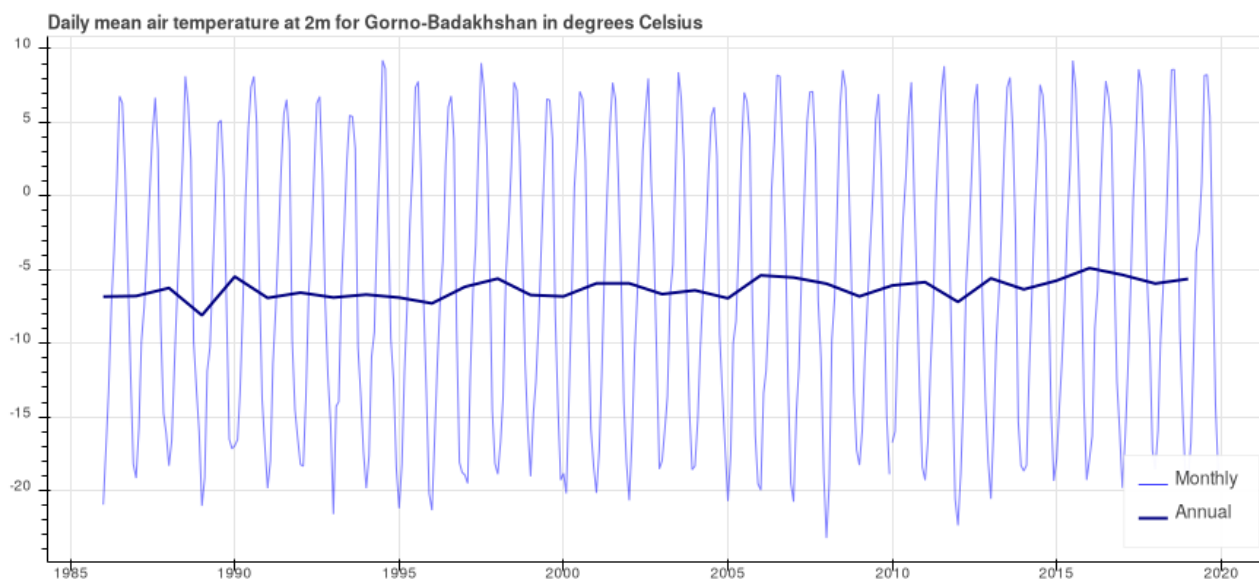
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily mean temperature in Gorno-Badakhshan

Monthly and annual time series of daily mean temperature in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual and monthly values of the daily mean temperatures in Gorno-Badakhshan Oblast for the period 1986 to 2019.

Patterns

About the data

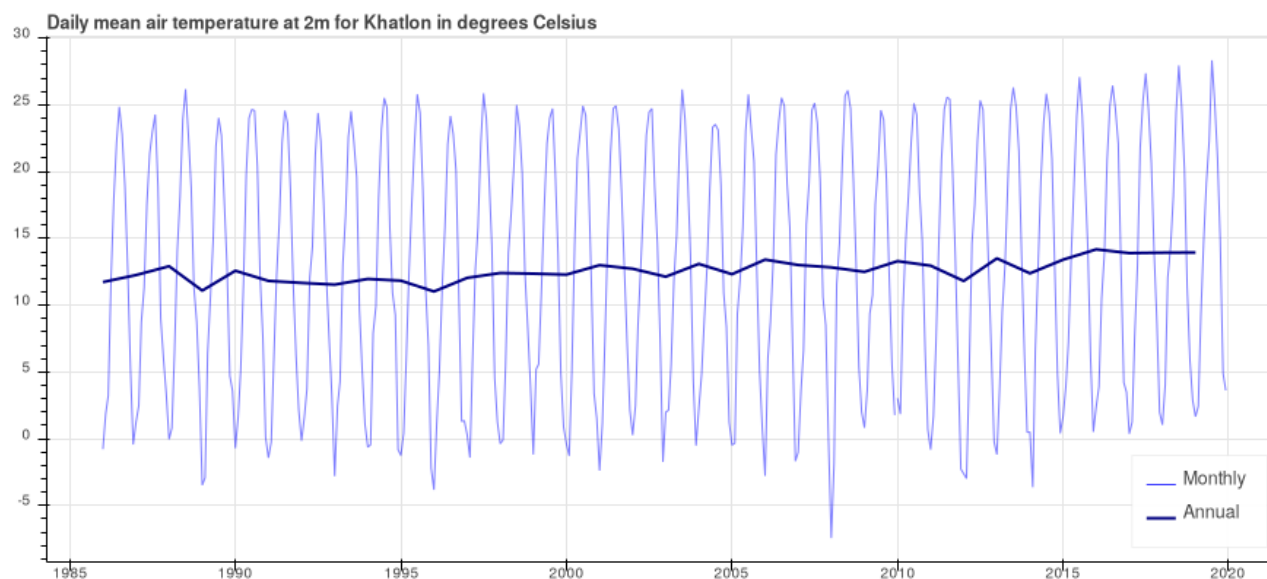
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily mean temperature in Khatlon

Monthly and annual time series of daily mean temperature Khatlon



Location

Khatlon

Description

This graph presents the annual and monthly values of the daily mean temperatures in Khatlon Oblast for the period 1986 to 2019.

Patterns

About the data

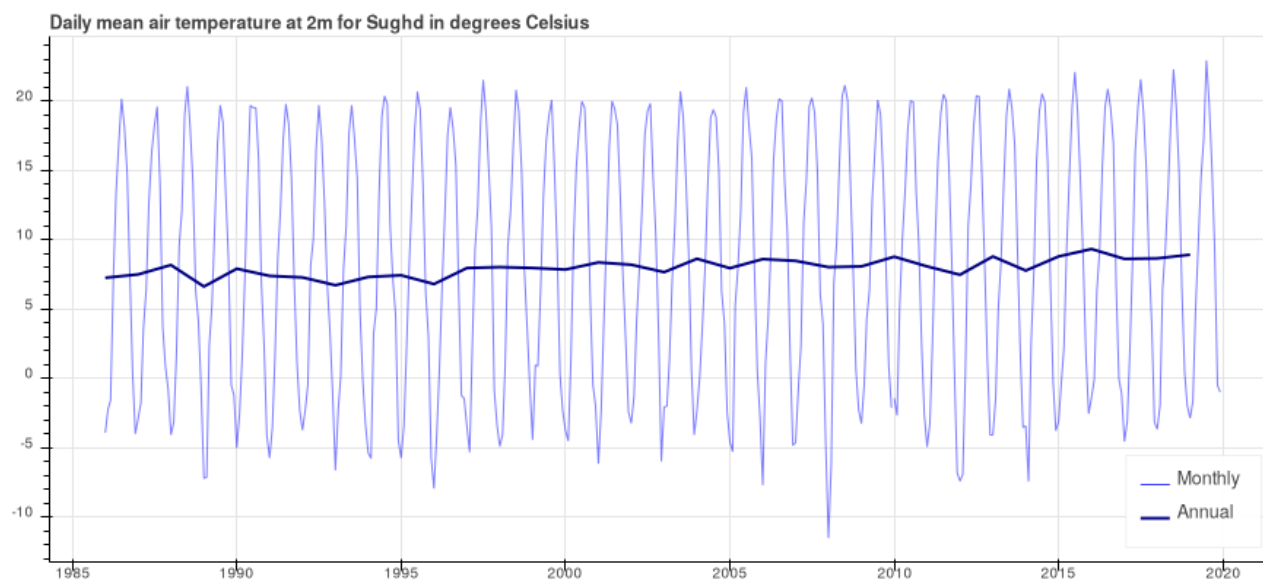
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily mean temperature in Sughd

Monthly and annual time series of daily mean temperature in Sughd



Location

Sughd

Description

This graph presents the annual and monthly values of the daily mean temperatures in Sughd Oblast for the period 1986 to 2019.

Patterns

About the data

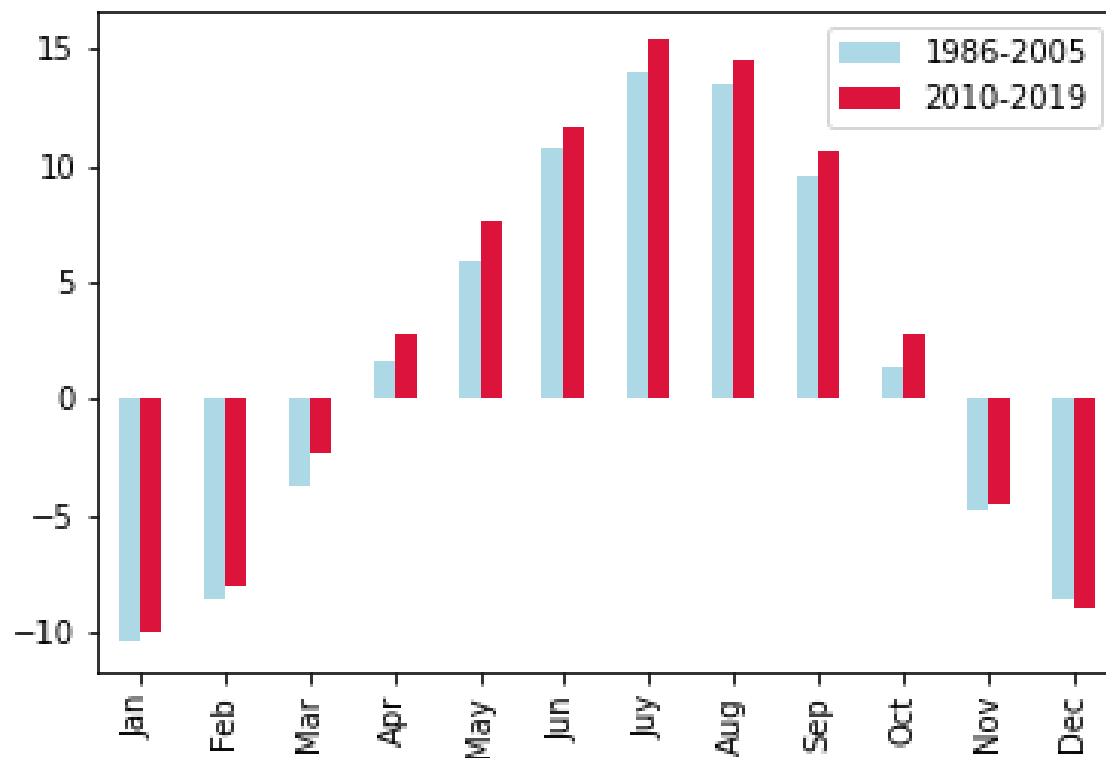
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly averages of daily mean temperatures in Districts of Republican Subordination

Monthly averages of daily mean temperatures in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the monthly averages of the daily mean temperatures for the reference period (1986-2005) and current decade (2010-2019) in Districts of Republican Subordination Oblast.

Patterns

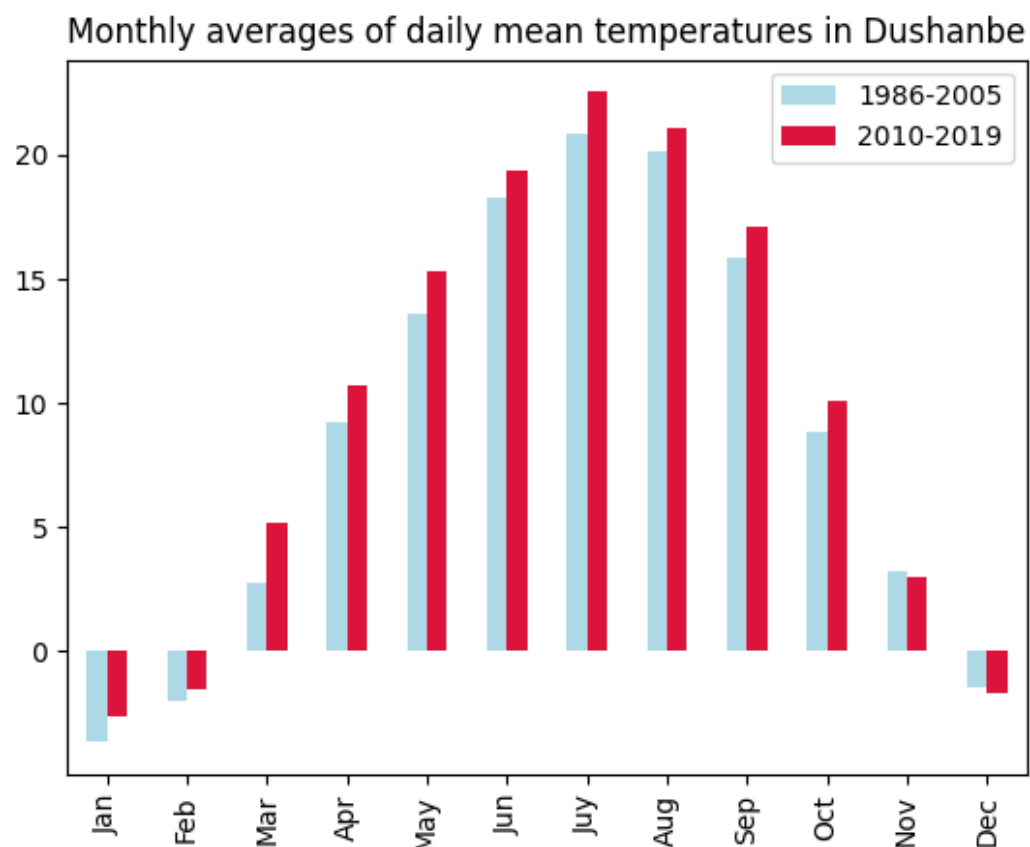
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly averages of daily mean temperatures in Dushanbe



Location

Dushanbe

Description

This graph presents the monthly averages of the daily mean temperatures for the reference period (1986-2005) and current decade (2010-2019) in Dushanbe Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

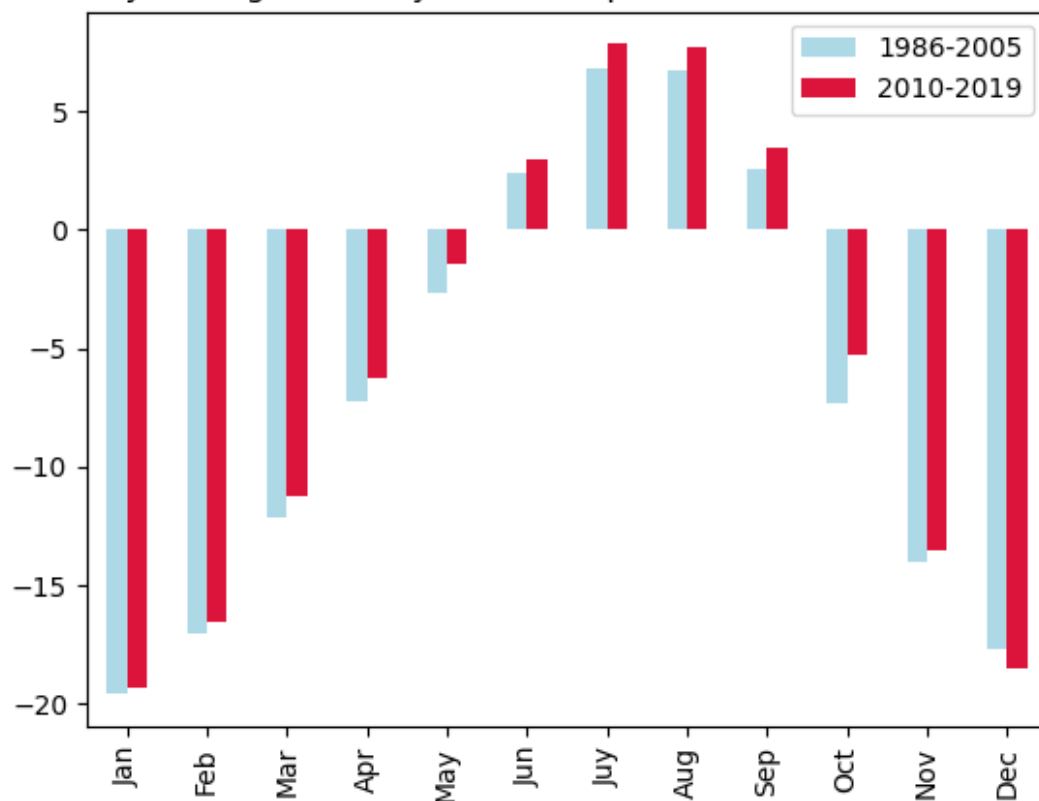
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily mean temperature in Gorno-Badakhshan

Monthly averages of daily mean temperatures in Gorno-Badakhshan

Monthly averages of daily mean temperatures in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the monthly averages of the daily mean temperatures for the reference period (1986-2005) and current decade (2010-2019) in Gorno-Badakhshan Oblast.

Patterns

About the data

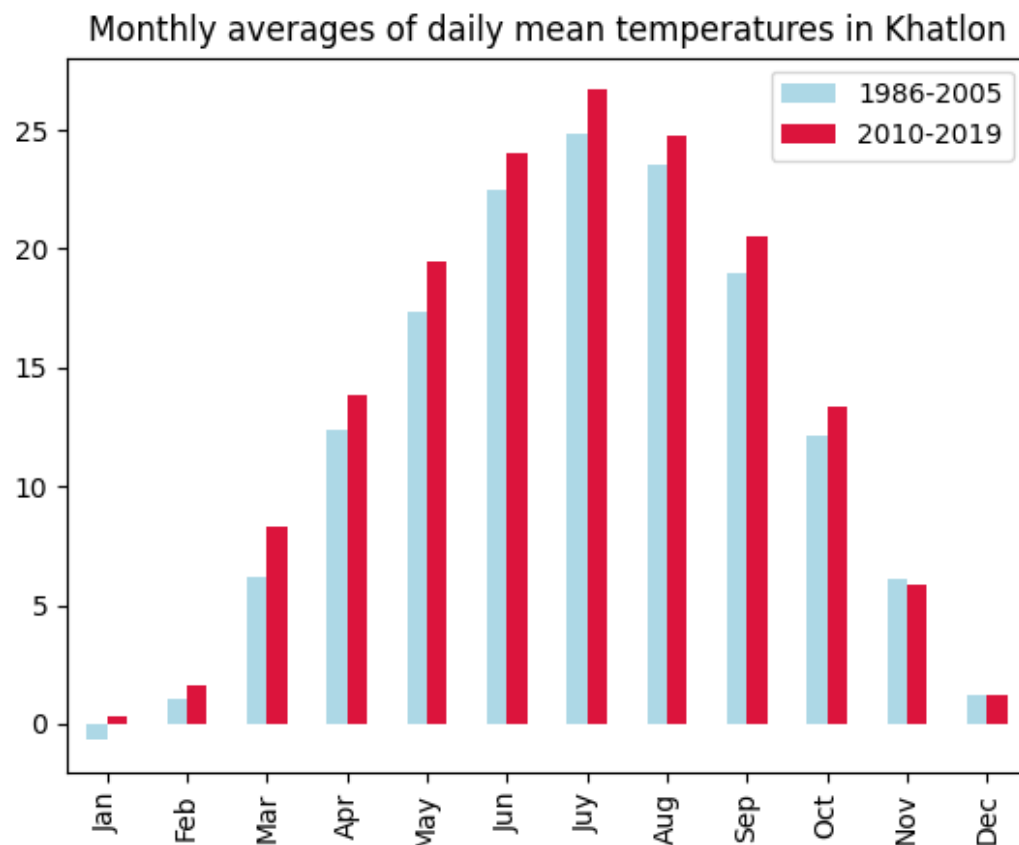
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily mean temperature in Khatlon

Monthly averages of daily mean temperatures in Khatlon



Location

Khatlon

Description

This graph presents the monthly averages of the daily mean temperatures for the reference period (1986-2005) and current decade (2010-2019) in Khatlon Oblast.

Patterns

About the data

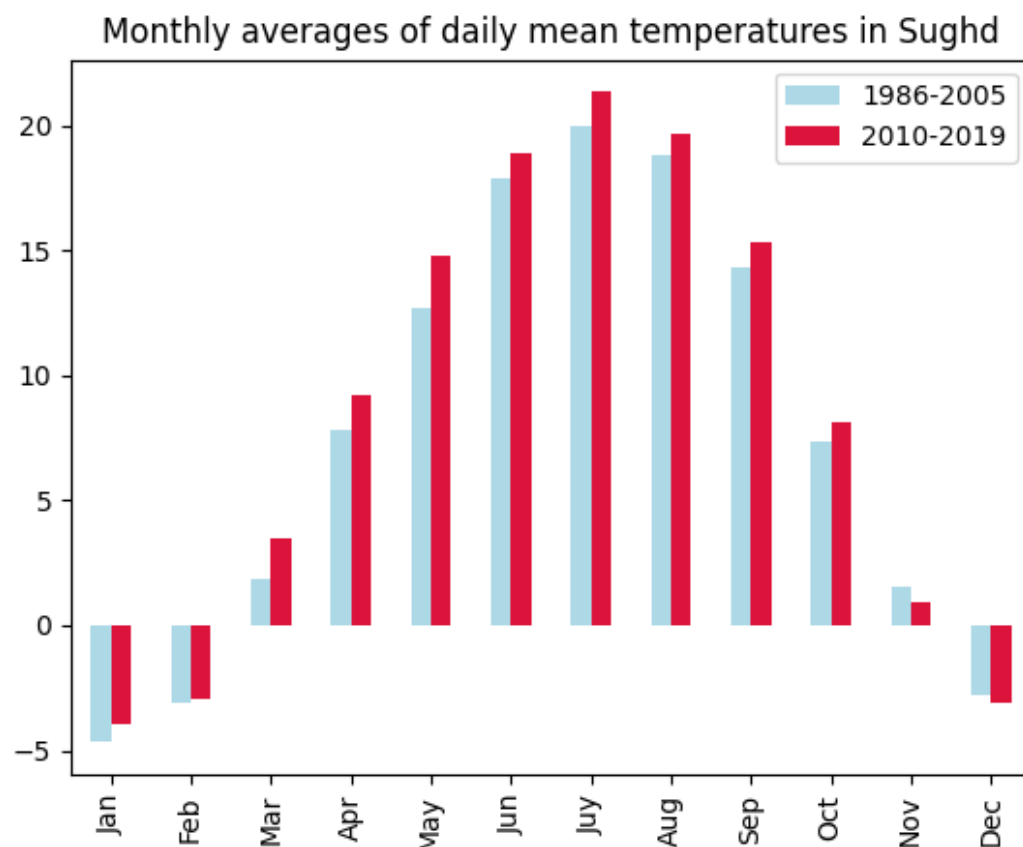
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of daily mean temperature in Sughd

Monthly average daily mean temperature in Sughd



Location

Sughd

Description

This graph presents the monthly averages of the daily mean temperatures for the reference period (1986-2005) and current decade (2010-2019) in Sughd Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Average daily mean temperature for the reference period

Average daily mean temperature during the reference period

Location

Tajikistan

Description

This map shows the average daily mean values of the temperature for the climate reference period (1986-2005).

Patterns

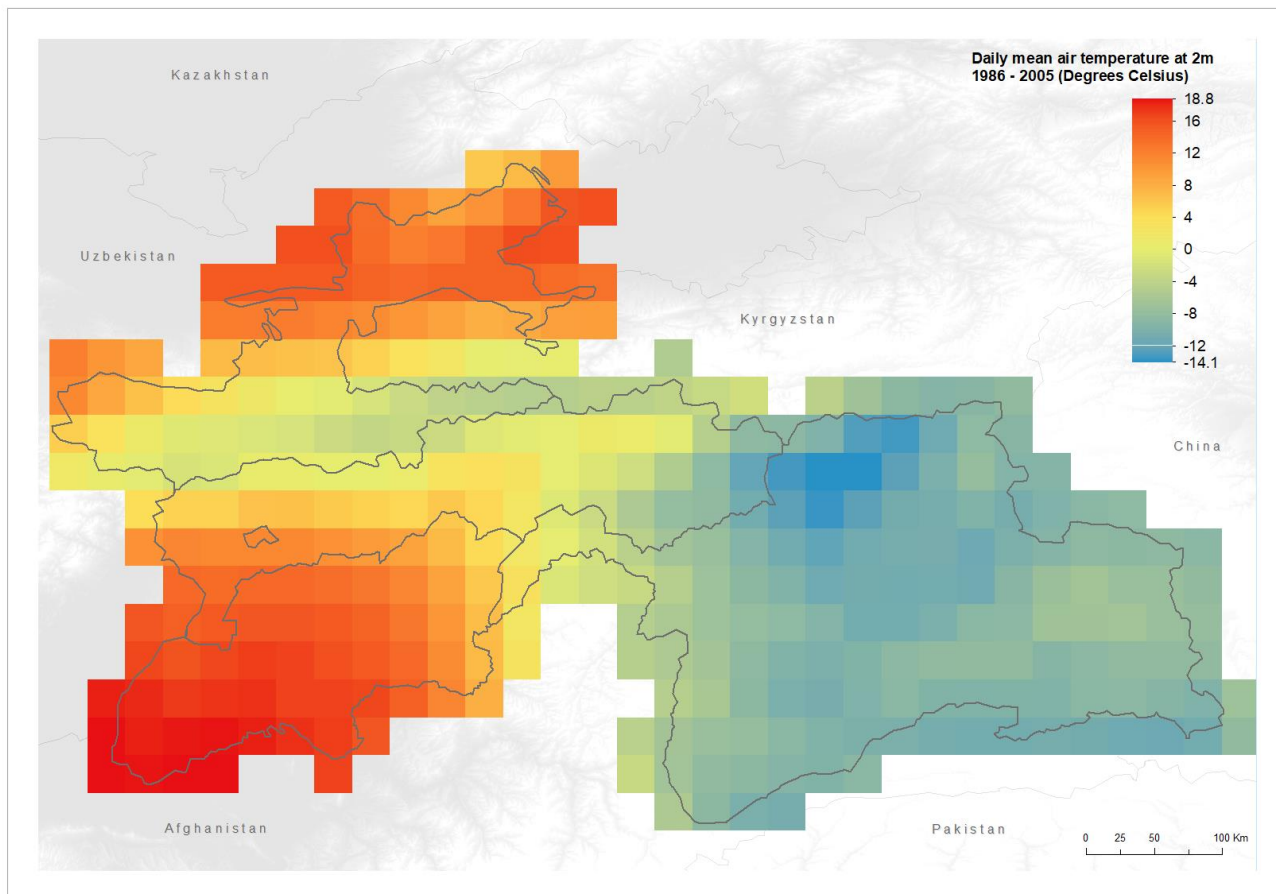
Mean temperature ranged between -14.1 to 18.8 deg. C during 1986 – 2005. Tajikistan has 4 distinct temperature zones, largely influenced by the country's variable topography and elevation. Average temperature exceeds approximately 8 deg. C in northern Sukhd southeast Districts of Republican Subordination and Khatlon region, peaking at 18.8 deg. C in the far south of the latter region. Lowest average temperatures are recorded in the high elevation autonomous region of Gorno-Badakhshan, ranging from approximately -14.1 to -2 deg. C. The remainder of the country experiences temperatures ranging from approximately -4 to 5 deg. C.

About the data

Prepared by EO4SD CR cluster

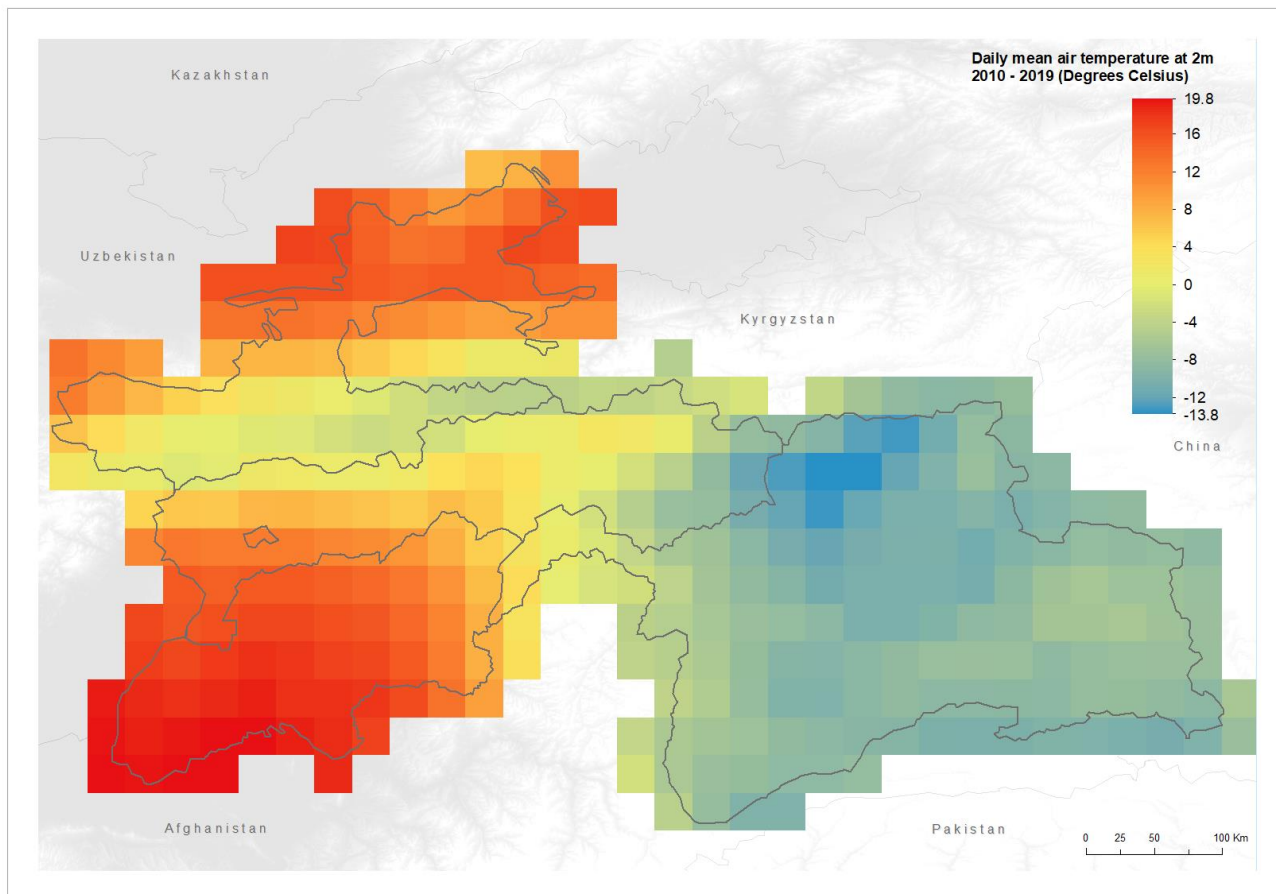
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Climate Data Summary: Average daily mean temperature for the current decade

Average daily mean temperature during the current decade



Location

Tajikistan

Description

This map shows the average daily mean values of the temperature for the current decade (2010-2019).

Patterns

Mean temperature ranged between -13.8 to 19.8 deg. C during the most recent decade. Tajikistan has 4 distinct temperature zones, largely influenced by the country's variable topography and elevation. Average temperature exceeds approximately 9 deg. C in northern Sukhd southeast Districts of Republican Subordination and Khatlon region, peaking at over 19 deg. C in central and southern areas of the latter region. Lowest average temperatures are recorded in the high elevation autonomous region of Gorno-Badakhshan, ranging from approximately -13.8 to -2 deg. C. The remainder of the country experiences temperatures ranging from approximately -4 to 5 deg. C.

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Daily mean temperature anomalies

Location

Tajikistan

Description

This map shows the differences between the average daily mean temperatures for the climate reference period (1986-2005) and the current decade (2010-2019).

Trends

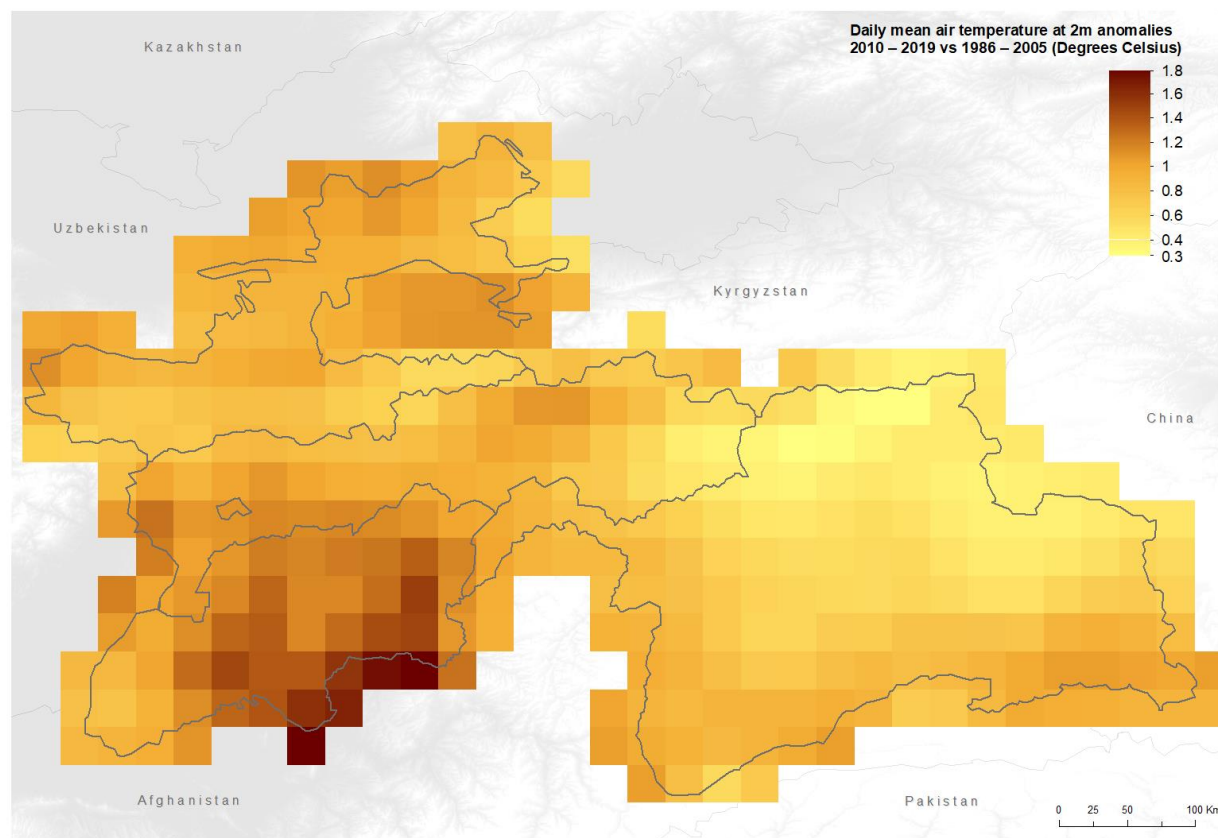
The most recent decade was warmer, relative to the reference period, across all of Tajikistan. The increase in temperature typically ranges from approximately +0.6 to +1.1 deg. C. The smallest increase in average temperature was lowest in central and northern Gorno-Badakhshan (+0.3 to + 0.6 deg. C), whilst the largest was in the warmer central and southern areas of Khatlon region (+1.5 to +1.8 deg. C).

About the data

Prepared by EO4SD CR cluster

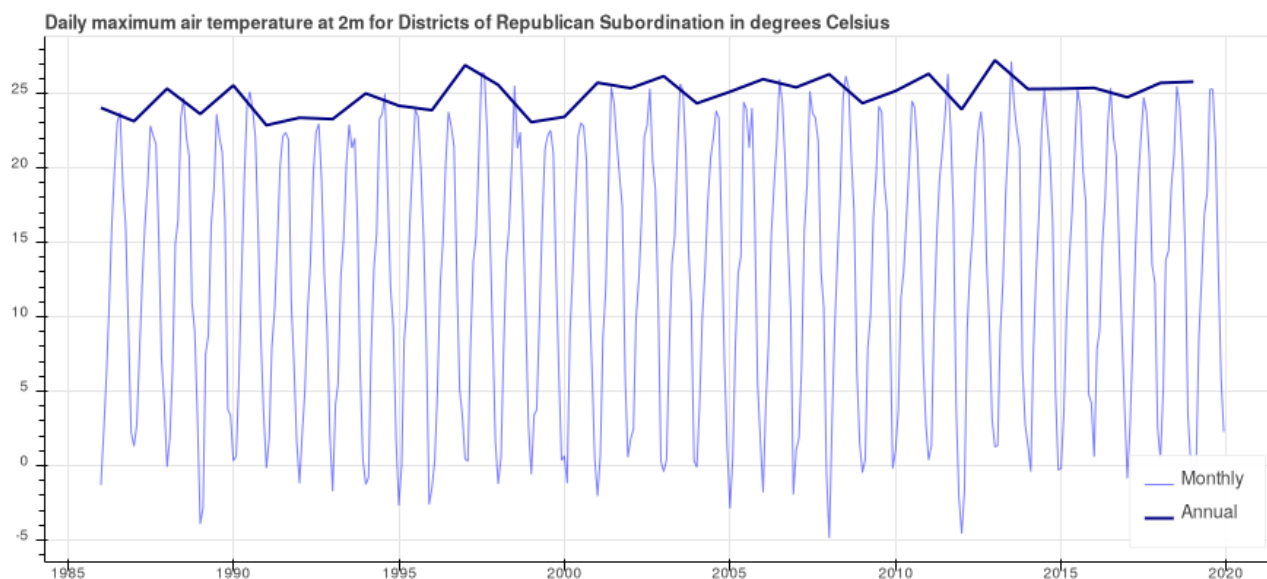
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Climate Data Summary: Time series of daily maximum temperature in Districts of Republican Subordination

Monthly and annual time series of daily maximum temperatures Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the annual and monthly values of the daily maximum temperatures in Districts of Republican Subordination Oblast for the period 1986 to 2019.

Patterns

About the data

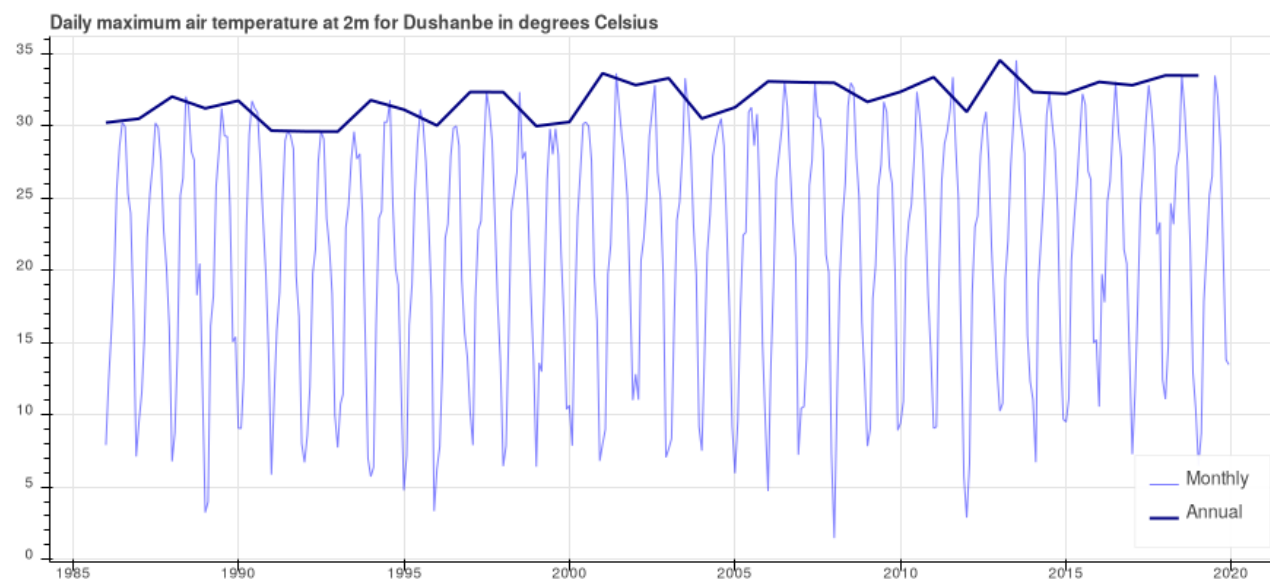
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily maximum temperature in Dushanbe

Monthly and annual time series of daily maximum temperatures Dushanbe



Location

Dushanbe

Description

This graph presents the annual and monthly values of the daily maximum temperatures in Dushanbe Oblast for the period 1986 to 2019.

Patterns

About the data

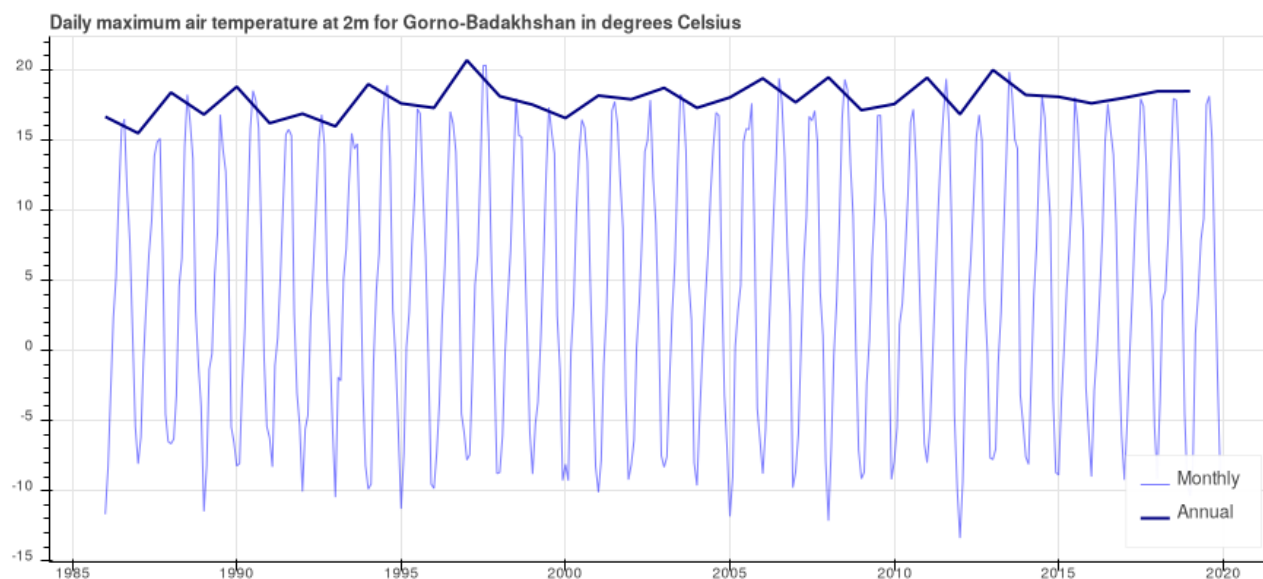
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily maximum temperature in Gorno-Badakhshan

Monthly and annual time series of daily maximum temperatures in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual and monthly values of the daily maximum temperatures in Gorno-Badakhshan Oblast for the period 1986 to 2019.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly and annual time series of daily maximum temperatures Khatlon

Location

Khatlon

Description

This graph presents the annual and monthly values of the daily maximum temperatures in Khatlon Oblast for the period 1986 to 2019.

Patterns

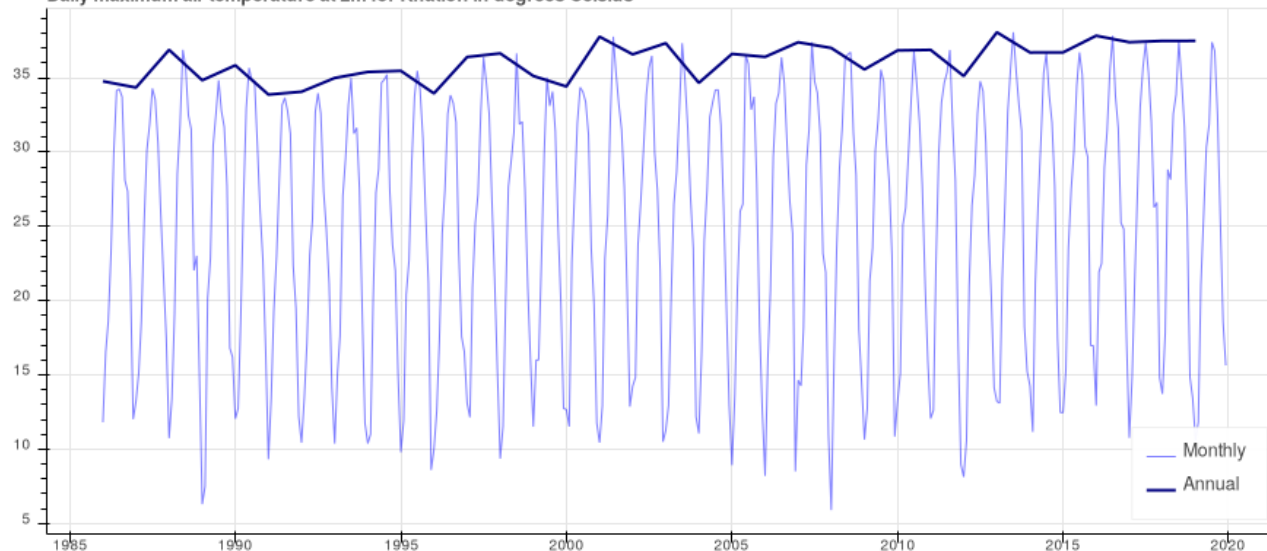
About the data

Prepared by EO4SD CR cluster

Inputs:

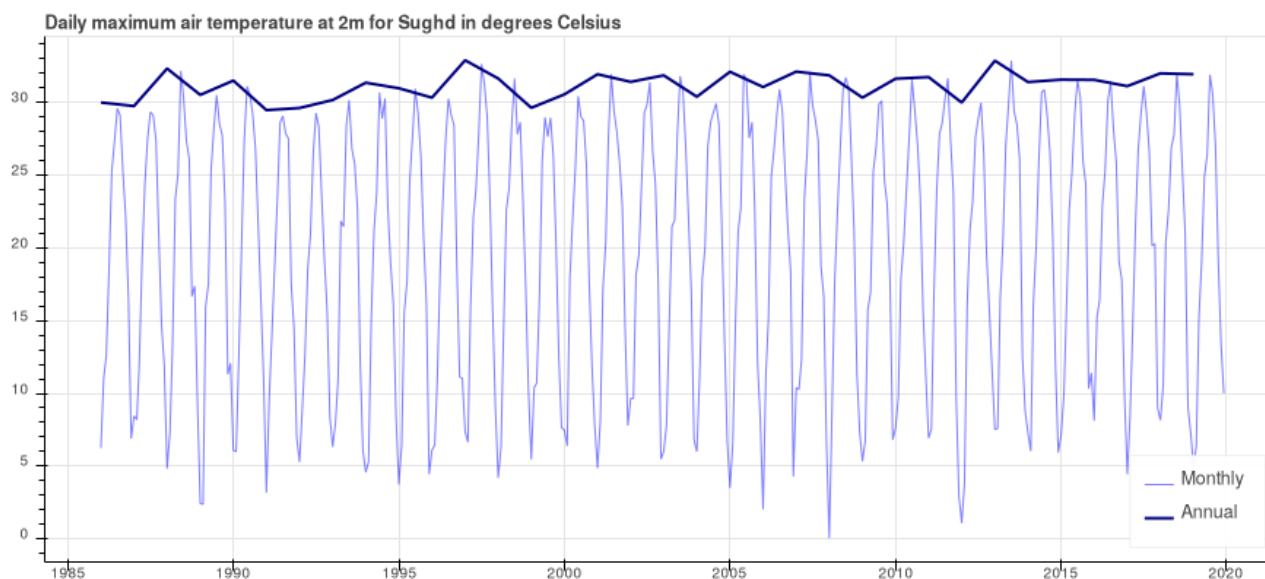
[Copernicus Climate Change Service ERA5 reanalysis](#)

Daily maximum air temperature at 2m for Khatlon in degrees Celsius



Climate Data Summary: Time series of daily maximum temperature in Sughd

Monthly and annual time series of daily maximum temperatures in Sughd



Location

Sughd

Description

This graph presents the annual and monthly values of the daily maximum temperatures in Sughd Oblast for the period 1986 to 2019.

Patterns

About the data

Prepared by EO4SD CR cluster

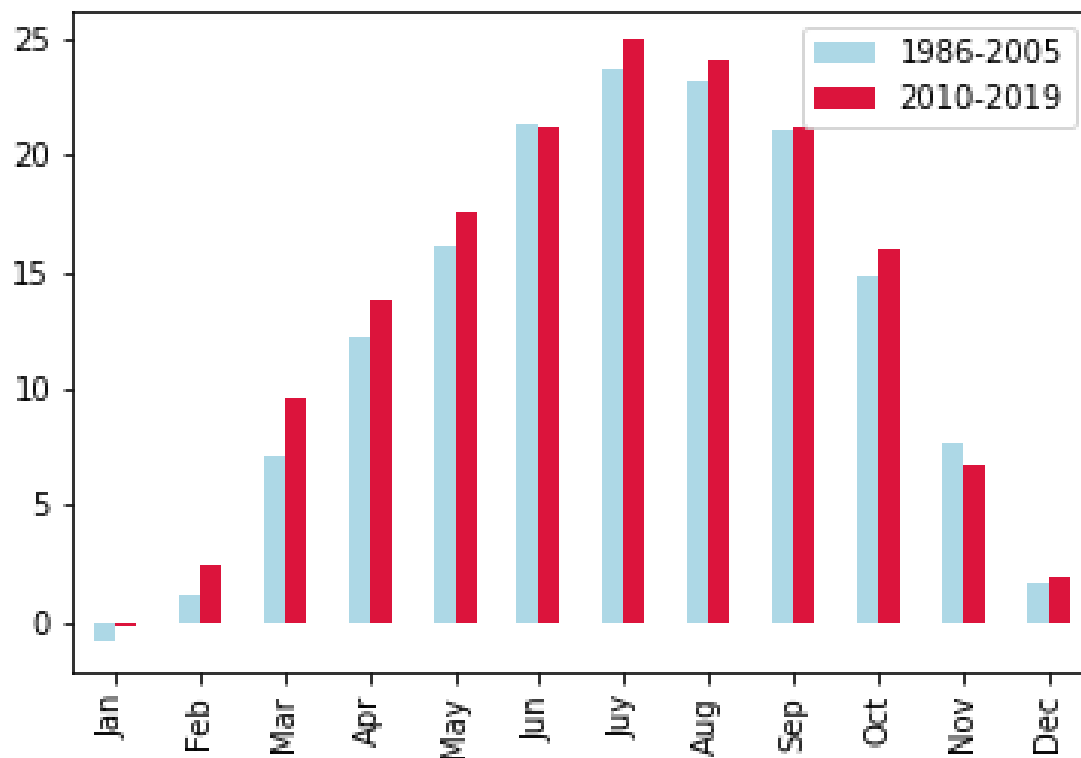
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily maximum temperature in Districts of Republican Subordination

Monthly averages of daily maximum temperatures in Districts of Republican Subordination

Monthly averages of daily maximum temperatures in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the monthly averages of the daily maximum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Districts of Republican Subordination Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

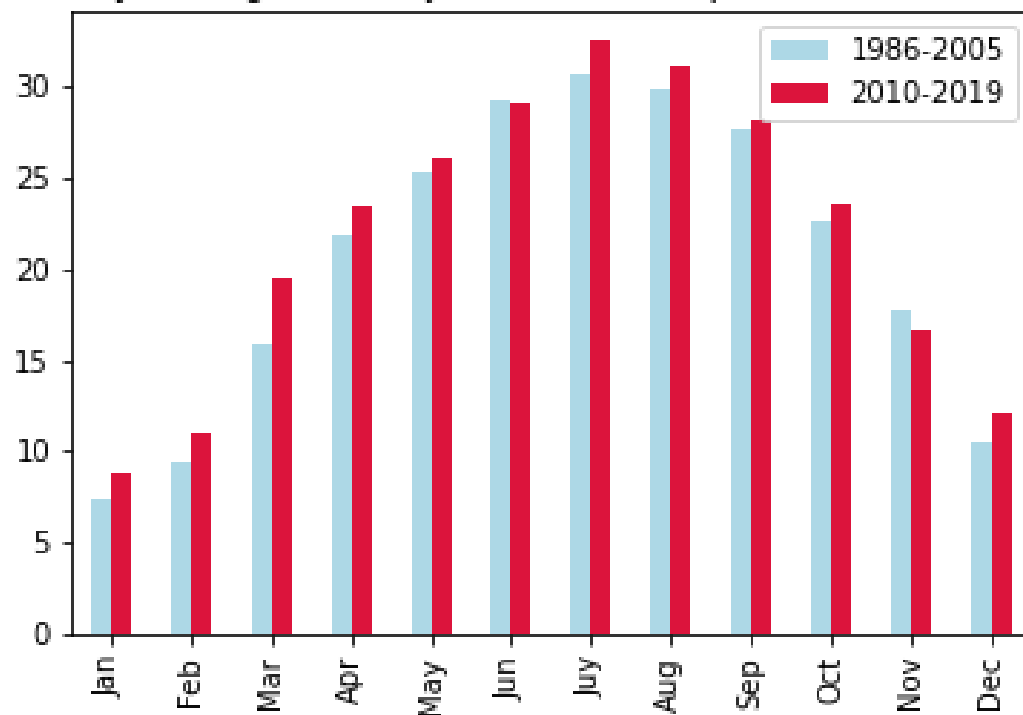
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily maximum temperature in Dushanbe

Monthly averages of daily maximum temperatures in Dushanbe

Monthly averages of daily maximum temperatures in Dushanbe



Location

Dushanbe

Description

This graph presents the monthly averages of the daily maximum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Dushanbe Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

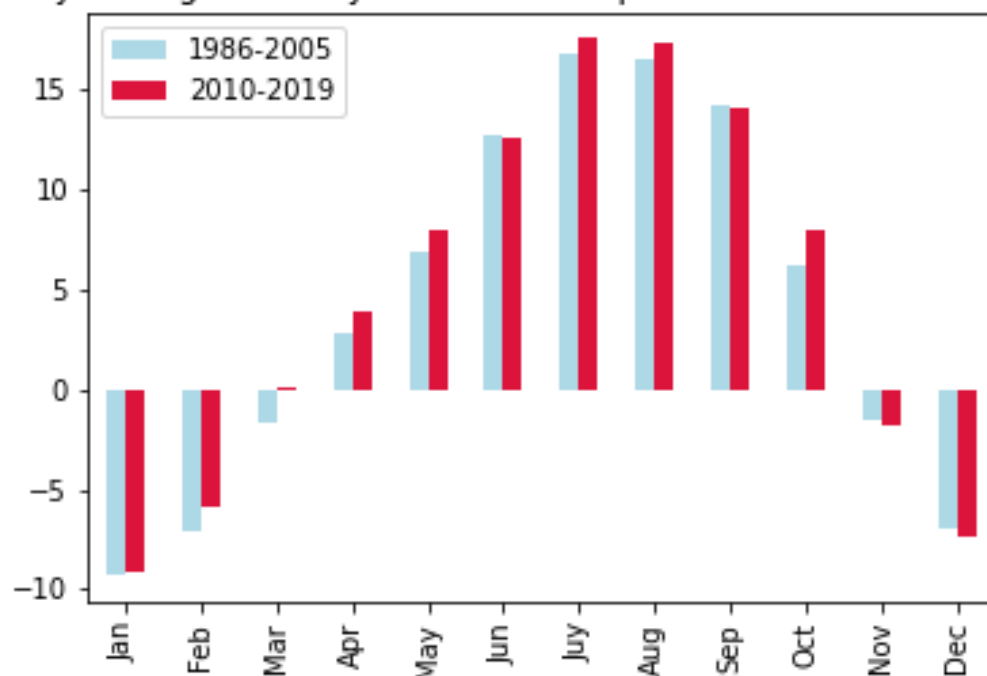
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily maximum temperatures in Gorno-Badakhshan

Monthly average daily maximum temperature in Gorno-Badakhshan

Monthly averages of daily maximum temperatures in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the monthly averages of the daily maximum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Gorno-Badakhshan Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily maximum temperature in Khatlon

Monthly averages of daily maximum temperatures in Khatlon

Monthly averages of daily maximum temperatures in Khatlon



Location

Khatlon

Description

This graph presents the monthly averages of the daily maximum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Khatlon Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

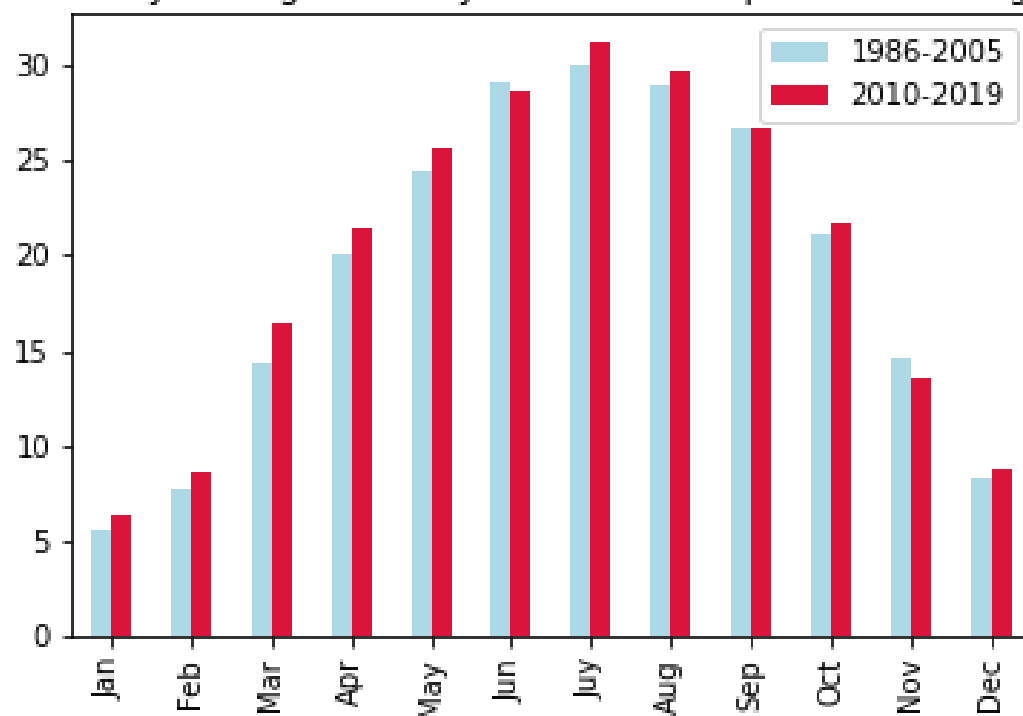
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily maximum temperature in Sughd

Monthly average daily maximum temperature in Sughd

Monthly averages of daily maximum temperatures in Sughd



Location

Sughd

Description

This graph presents the monthly averages of the daily maximum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Sughd Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Average daily maximum temperature during the reference period

Location

Tajikistan

Description

This map shows the average daily maximum values of the temperature for the climate reference period (1986-2005).

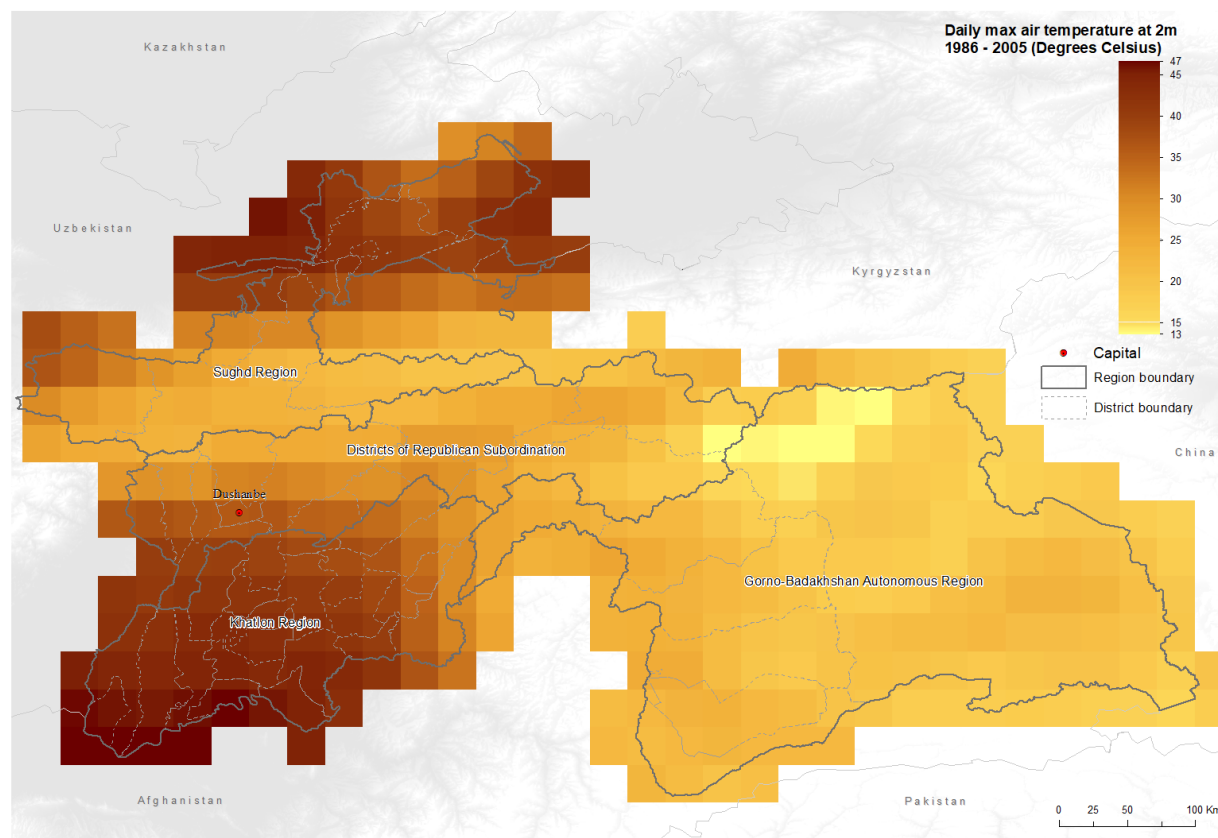
Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Average daily maximum temperature during the current decade

Location

Tajikistan

Description

This map shows the average daily maximum values of the temperature for the current decade (2010-2019).

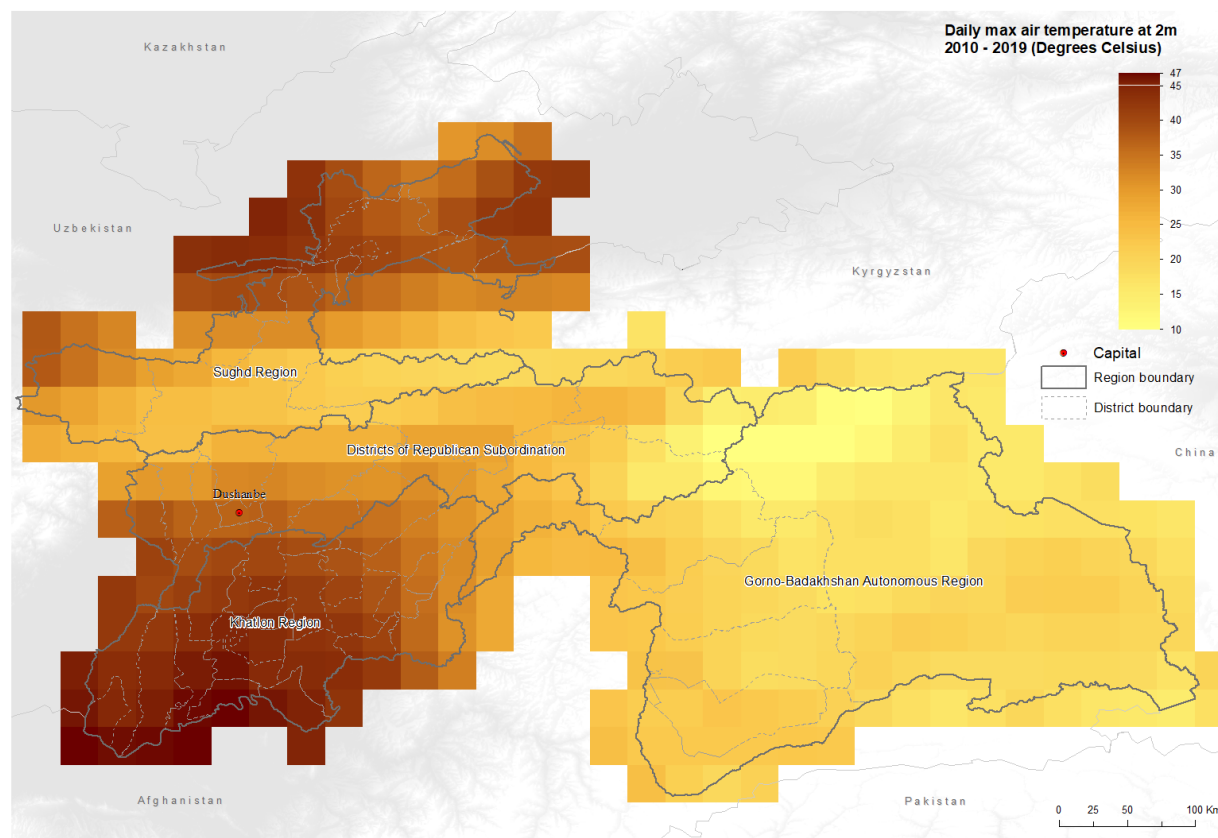
Patterns

About the data

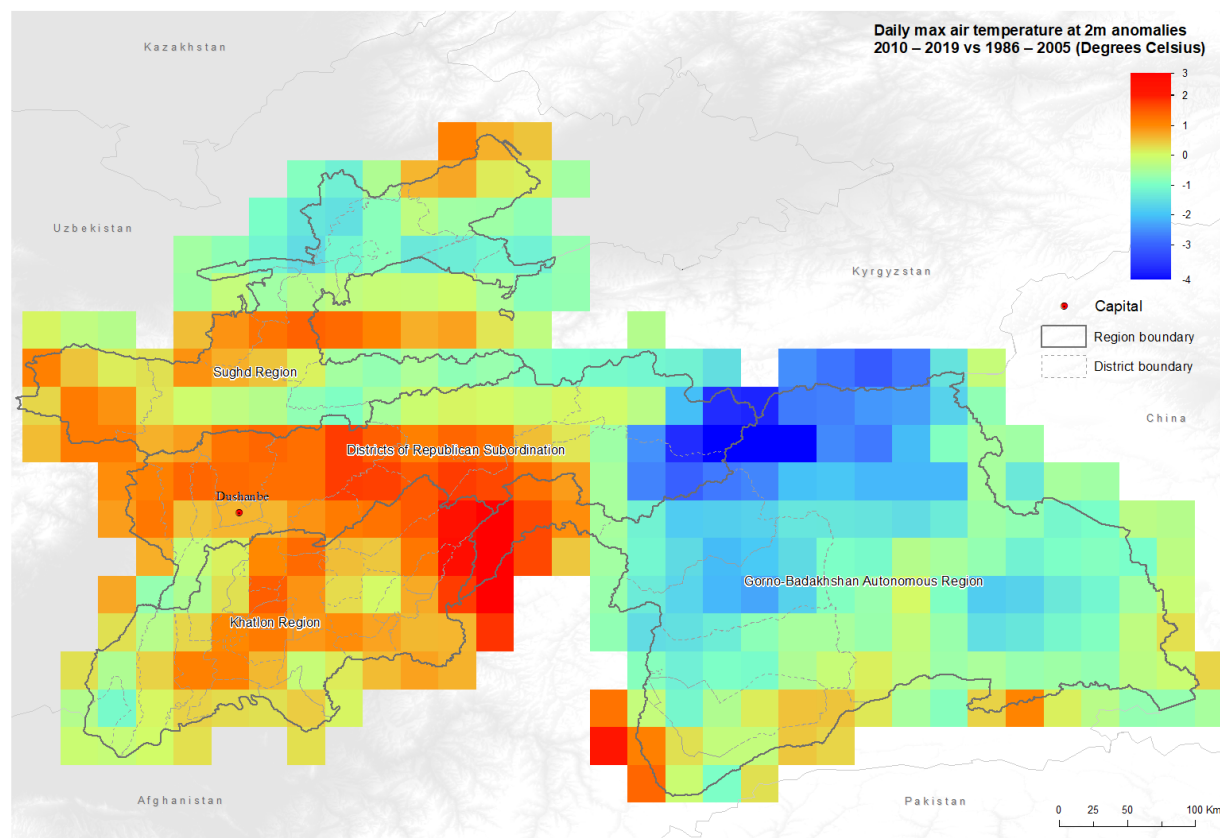
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Daily maximum temperature anomalies



Location

Tajikistan

Description

This map shows the differences between the average daily maximum temperatures for the climate reference period (1986-2005) and the current decade (2010-2019).

Patterns

About the data

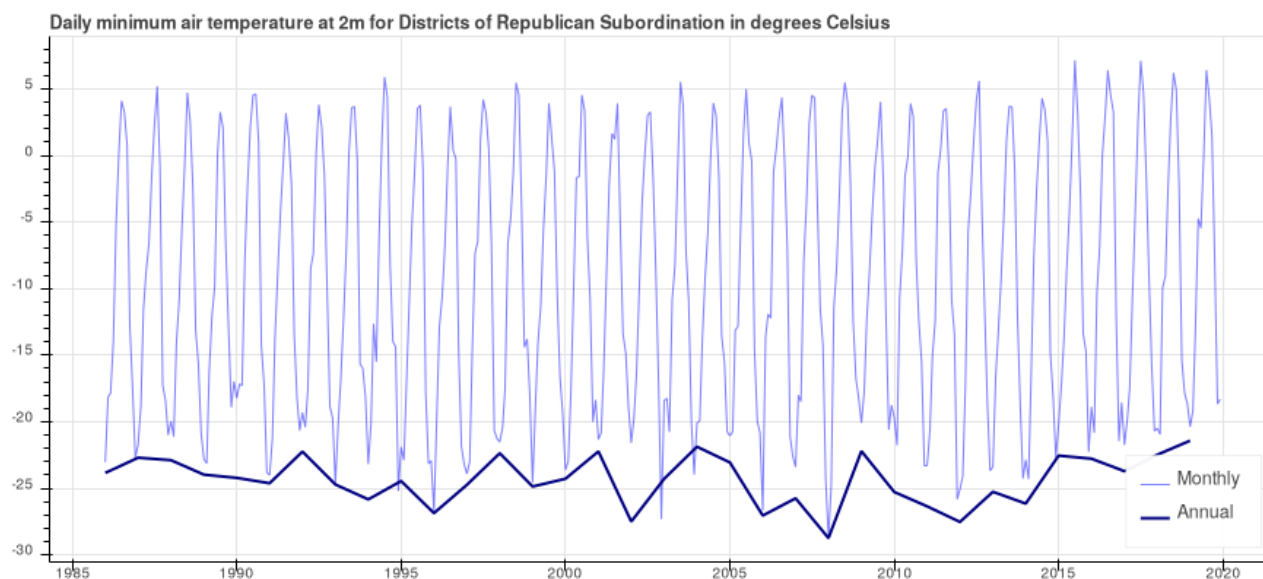
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily minimum temperature in Districts of Republican Subordination

Monthly and annual time series of daily minimum temperatures in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the annual and monthly values of the daily minimum temperatures in Districts of Republican Subordination Oblast for the period 1986 to 2019.

Patterns

About the data

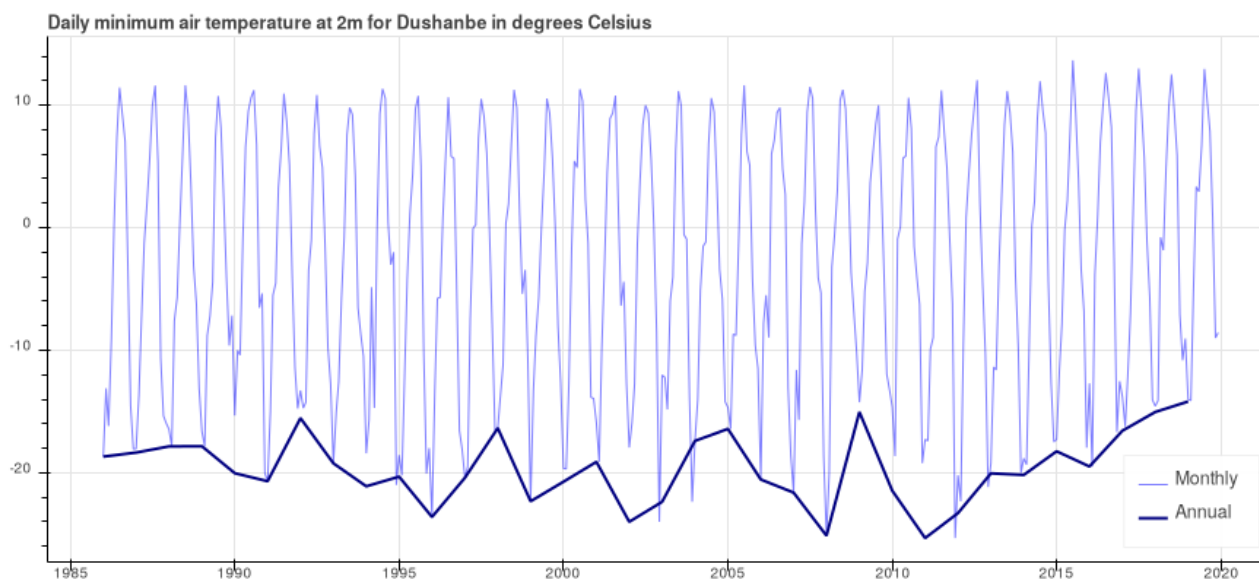
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily minimum temperature in Dushanbe

Monthly and annual time series of daily minimum temperatures in Dushanbe



Location

Dushanbe

Description

This graph presents the annual and monthly values of the daily minimum temperatures in Dushanbe Oblast for the period 1986 to 2019.

Patterns

About the data

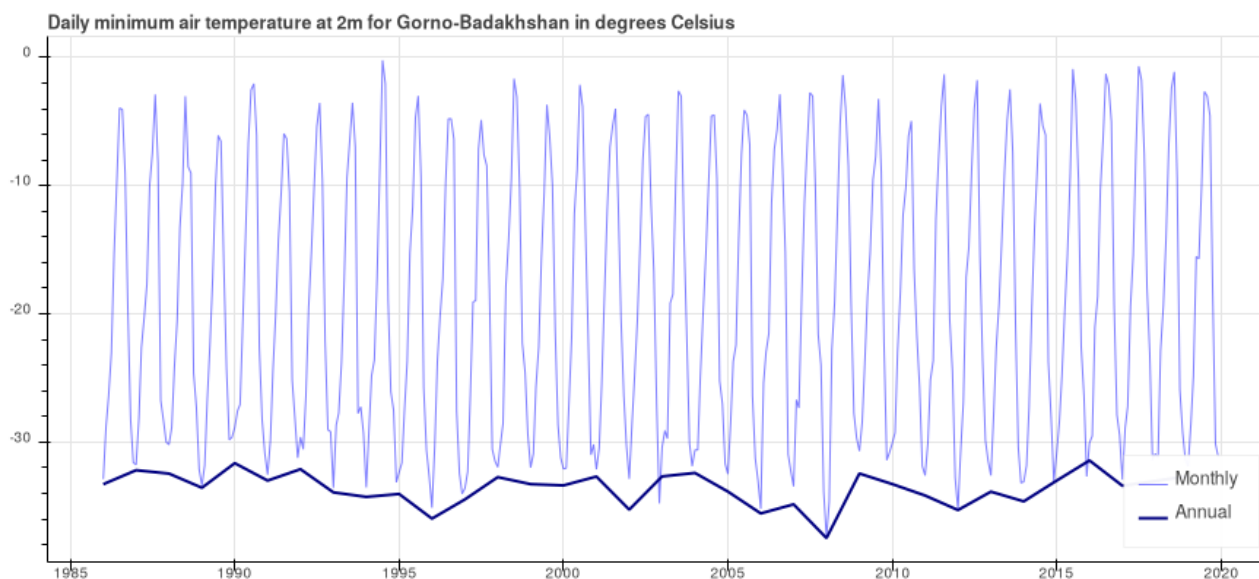
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Time series of daily minimum temperature in Gorno-Badakhshan

Monthly and annual time series of daily minimum temperatures in Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

This graph presents the annual and monthly values of the daily minimum temperatures in Gorno-Badakhshan Oblast for the period 1986 to 2019.

Patterns

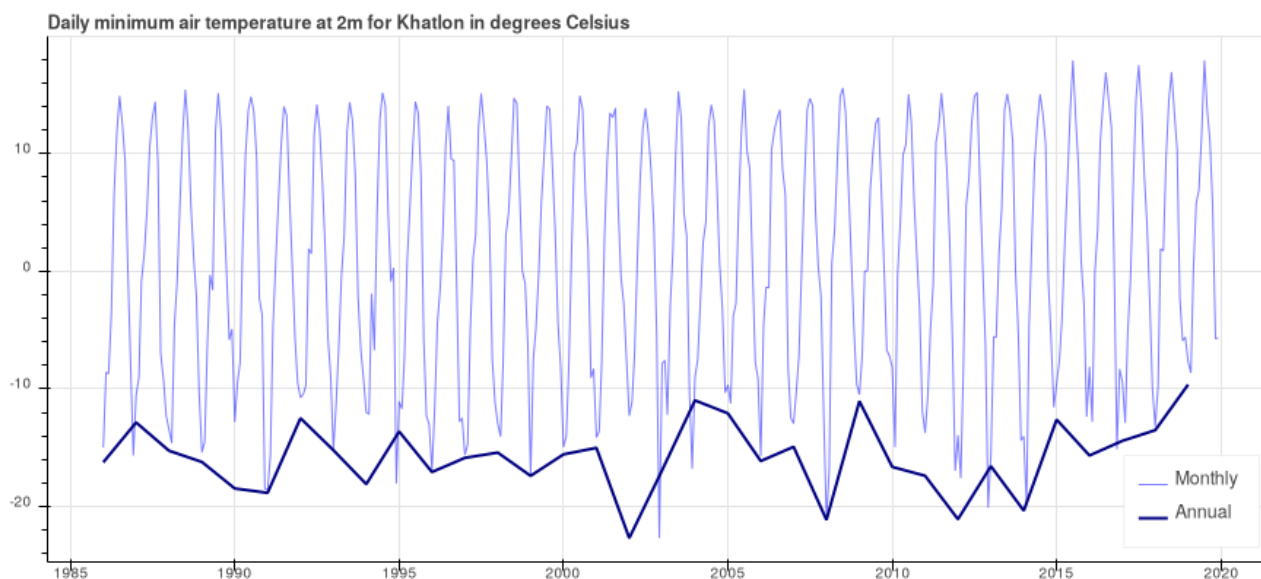
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly and annual time series of daily minimum temperatures in Khatlon



Location

Khatlon

Description

This graph presents the annual and monthly values of the daily minimum temperatures in Khatlon Oblast for the period 1986 to 2019.

Patterns

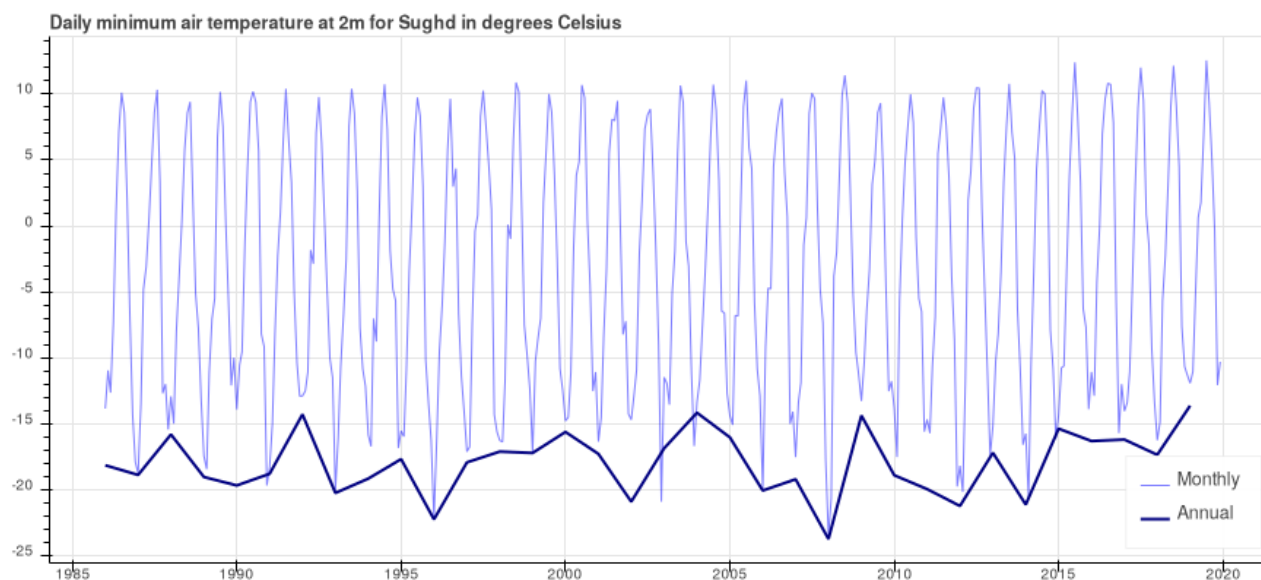
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Monthly and annual time series of daily minimum temperatures in Sughd



Location

Sughd

Description

This graph presents the annual and monthly values of the daily minimum temperatures in Sughd Oblast for the period 1986 to 2019.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily minimum temperature in Districts of Republican Subordination

Monthly averages of daily minimum temperatures in Districts of Republican Subordination

Monthly averages of daily minimum temperatures in Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

This graph presents the monthly averages of the daily minimum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Districts of Republican Subordination Oblast.

Patterns

About the data

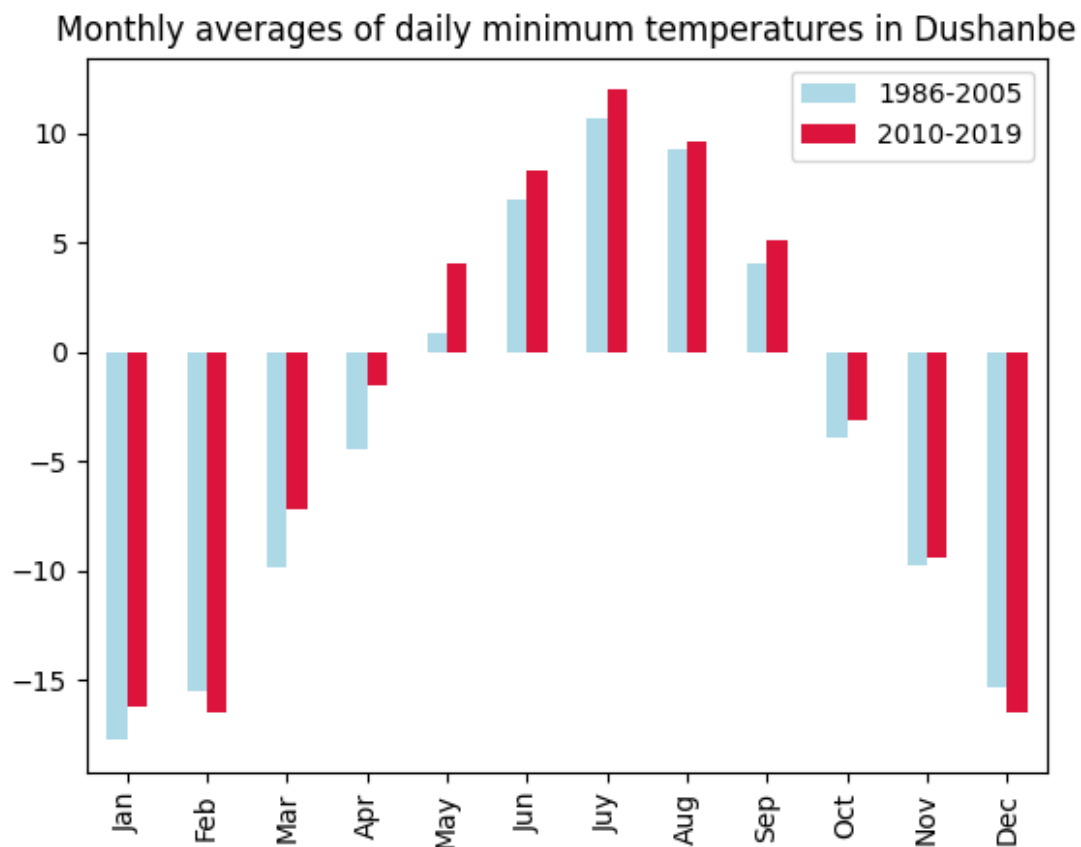
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily minimum temperature in Dushanbe

Monthly averages of daily minimum temperatures in Dushanbe



Location

Dushanbe

Description

This graph presents the monthly averages of the daily minimum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Dushanbe Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

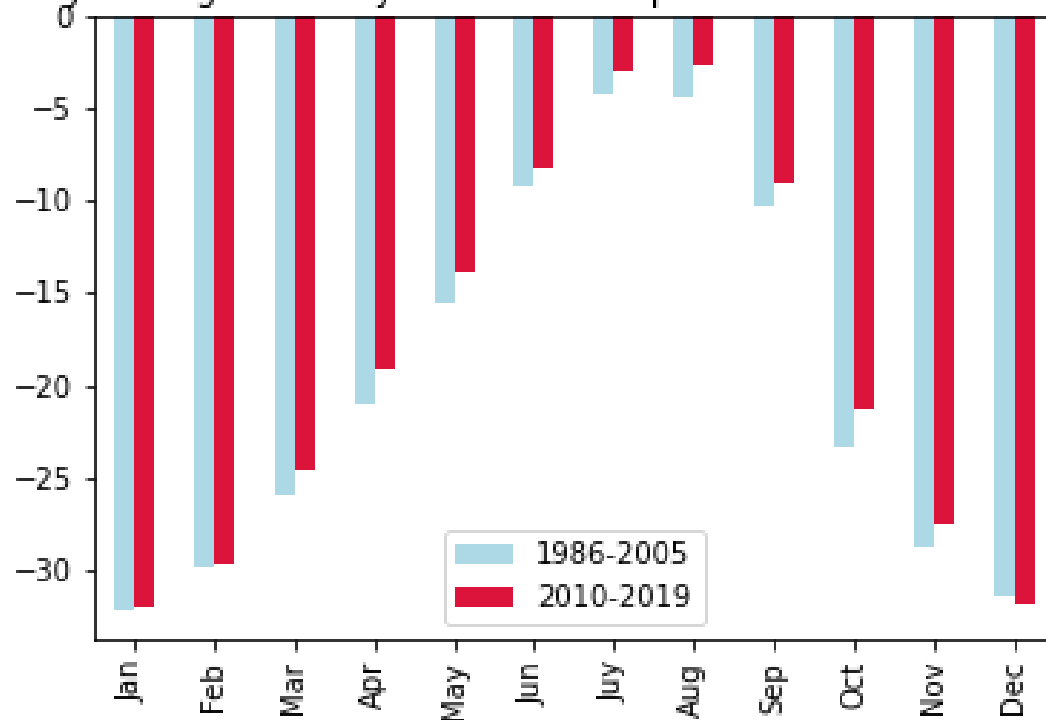
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average of daily minimum temperature in Gorno-Badakhshan

Monthly averages of daily minimum temperatures in Gorno-Badakhshan

Monthly averages of daily minimum temperatures in Gorno-Badakhsha



Location

Gorno-Badakhshan

Description

This graph presents the monthly averages of the daily minimum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Gorno-Badakhshan Oblast.

Patterns

About the data

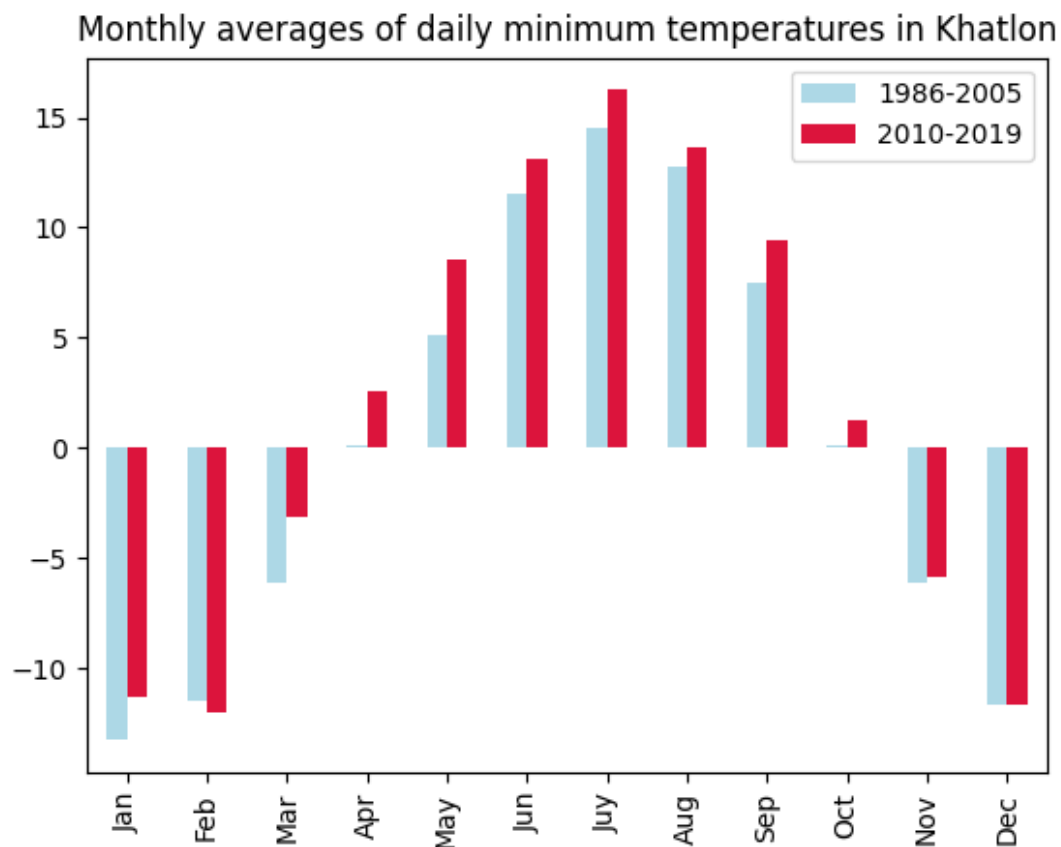
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily minimum temperature in Khatlon

Monthly averages of daily minimum temperatures in Khatlon



Location

Khatlon

Description

This graph presents the monthly averages of the daily minimum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Khatlon Oblast.

Patterns

About the data

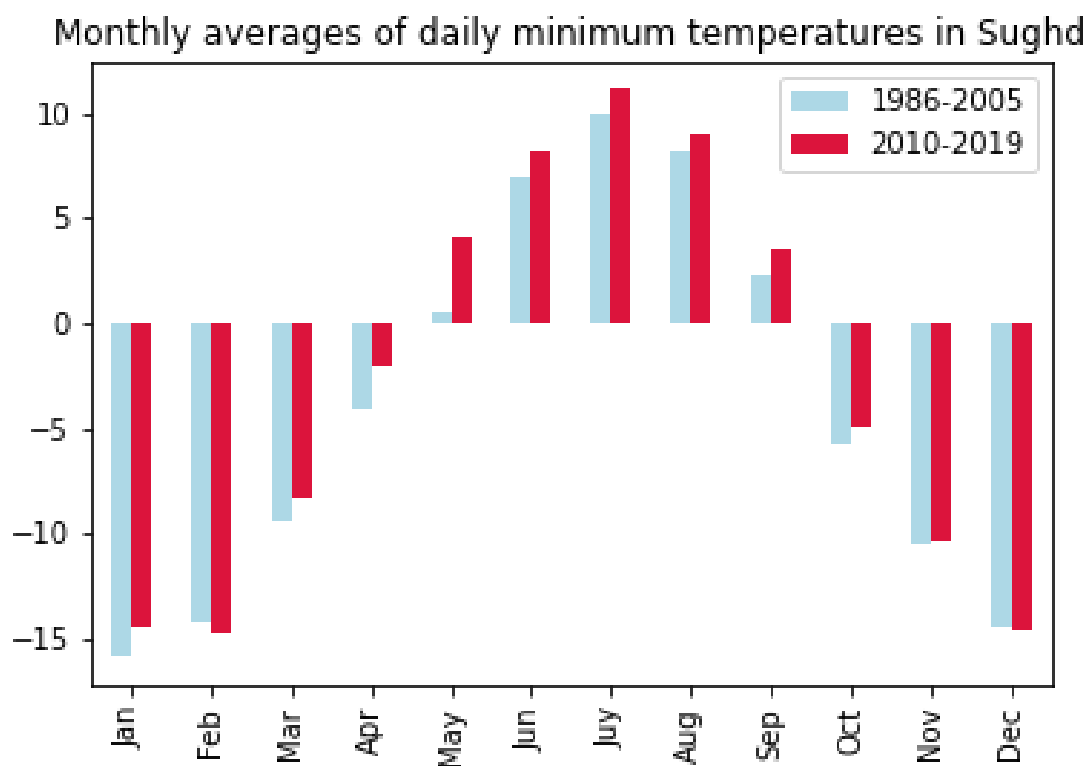
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average daily minimum temperature in Sughd

Monthly averages of daily minimum temperatures in Sughd



Location

Sughd

Description

This graph presents the monthly averages of the daily minimum temperatures for the reference period (1986-2005) and current decade (2010-2019) in Sughd Oblast.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

This map shows the average daily minimum values of the temperature for the climate reference period (1986-2005).

Averaged daily minimum temperatures during the reference period

Location

Tajikistan

Description

This map shows the average daily minimum values of the temperature for the climate reference period (1986-2005).

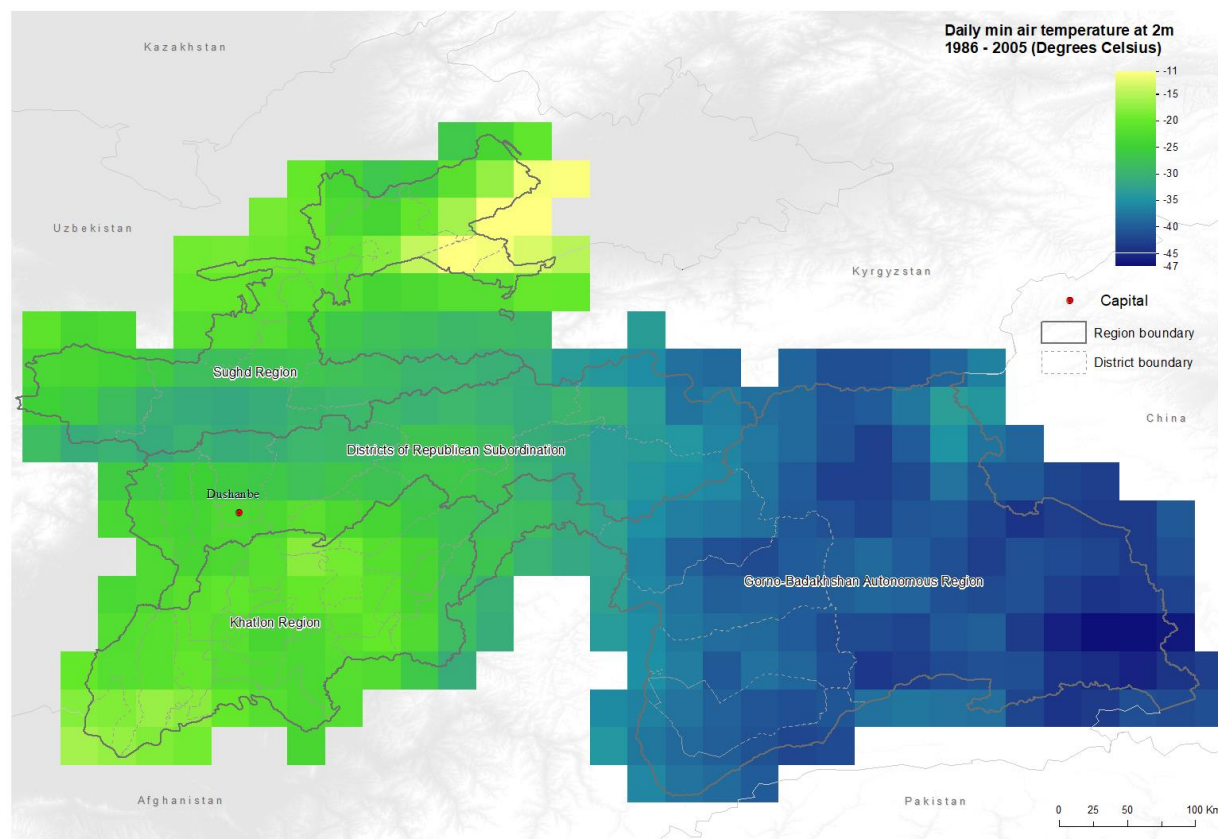
Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Averaged daily minimum temperature during the current decade

Location

Tajikistan

Description

This map shows the average daily minimum values of the temperature for the current decade (2010-2019).

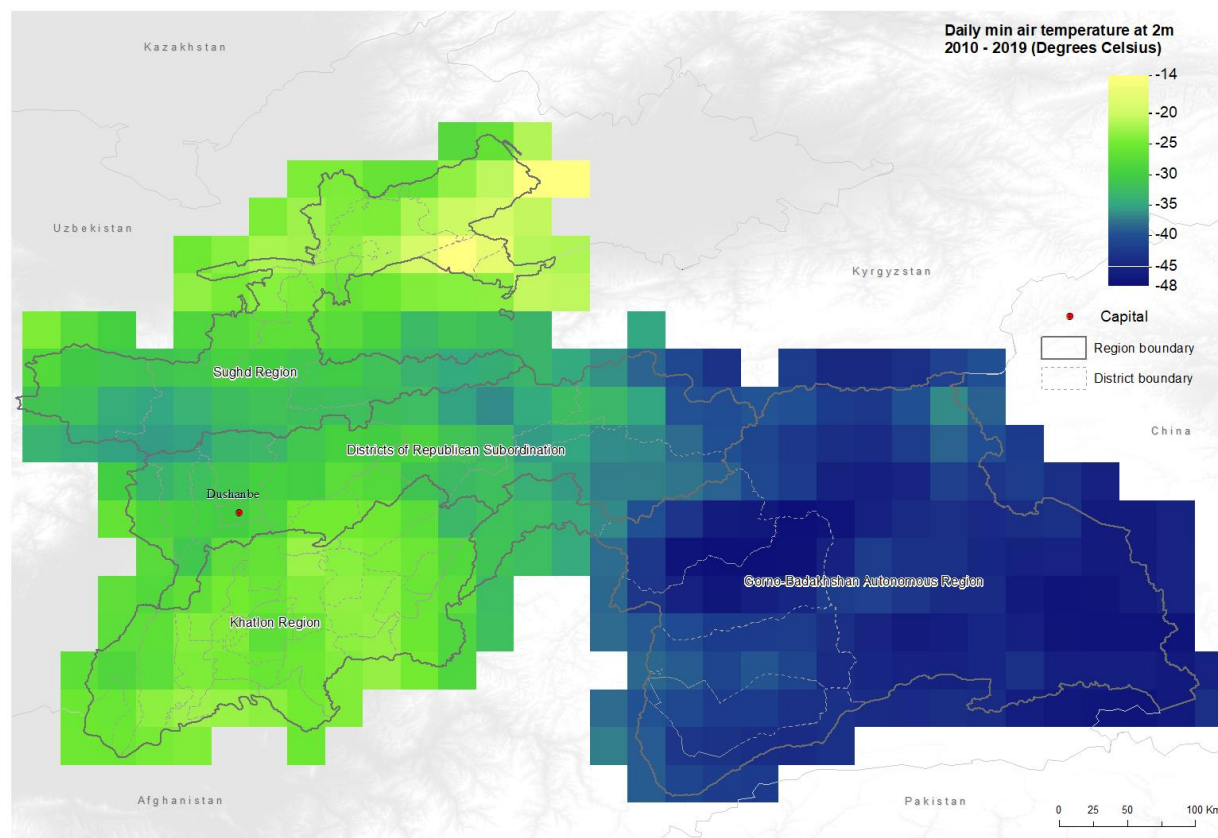
Patterns

About the data

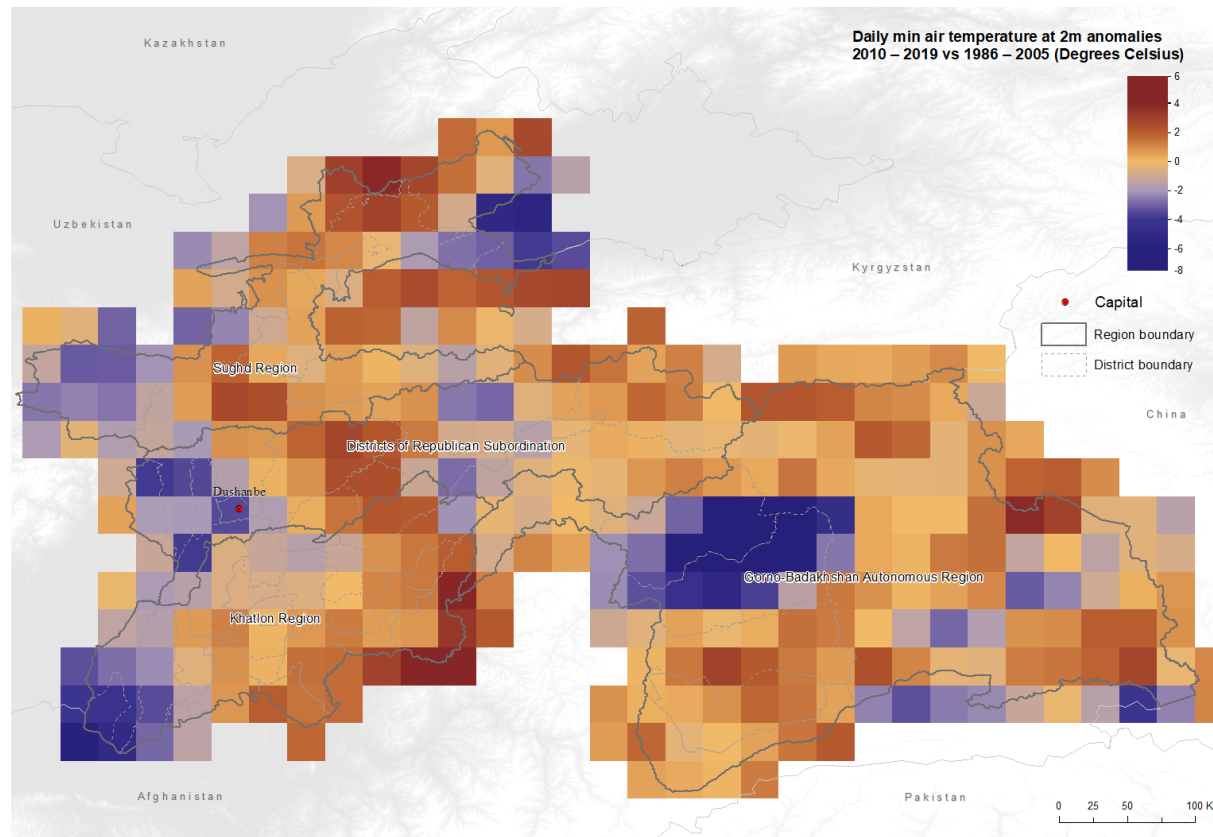
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Daily minimum temperature anomalies



Location

Tajikistan

Description

This map shows the differences between the average daily minimum temperatures for the climate reference period (1986-2005) and the current decade (2010-2019).

Patterns

About the data

Prepared by EO4SD CR cluster

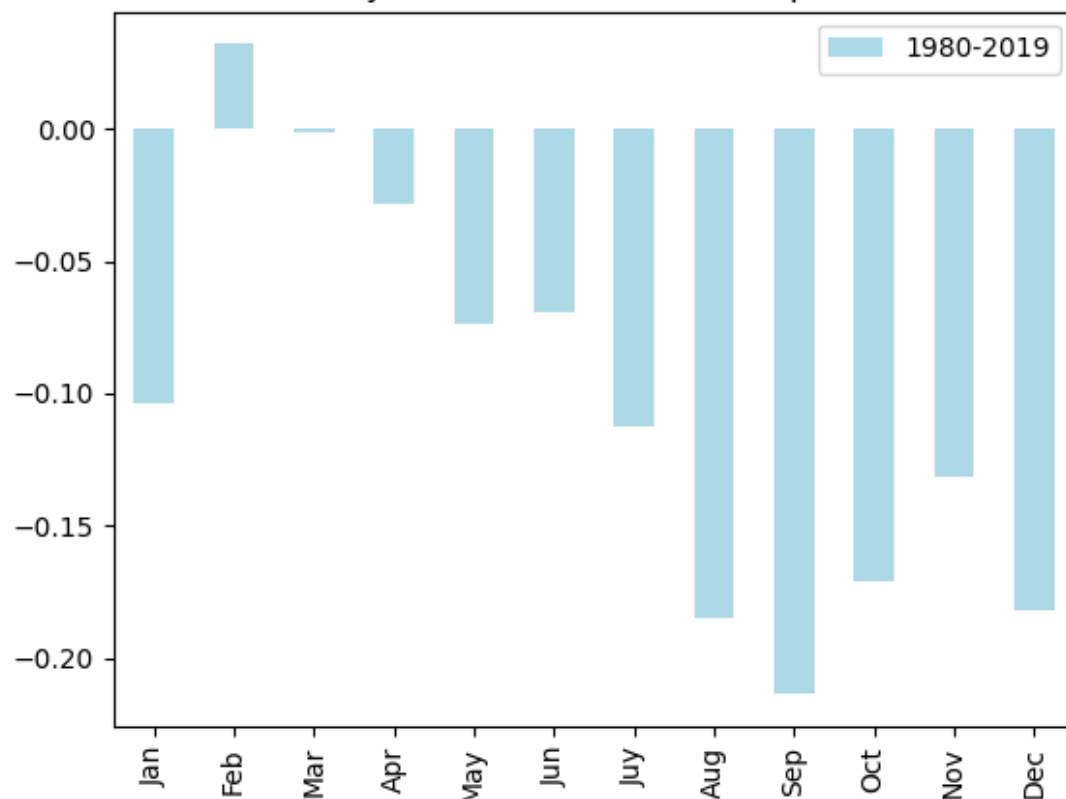
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 6-month drought index for Districts of Republican Subordination

6-month SPEI monthly averages for Districts of Republican Subordination

6-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

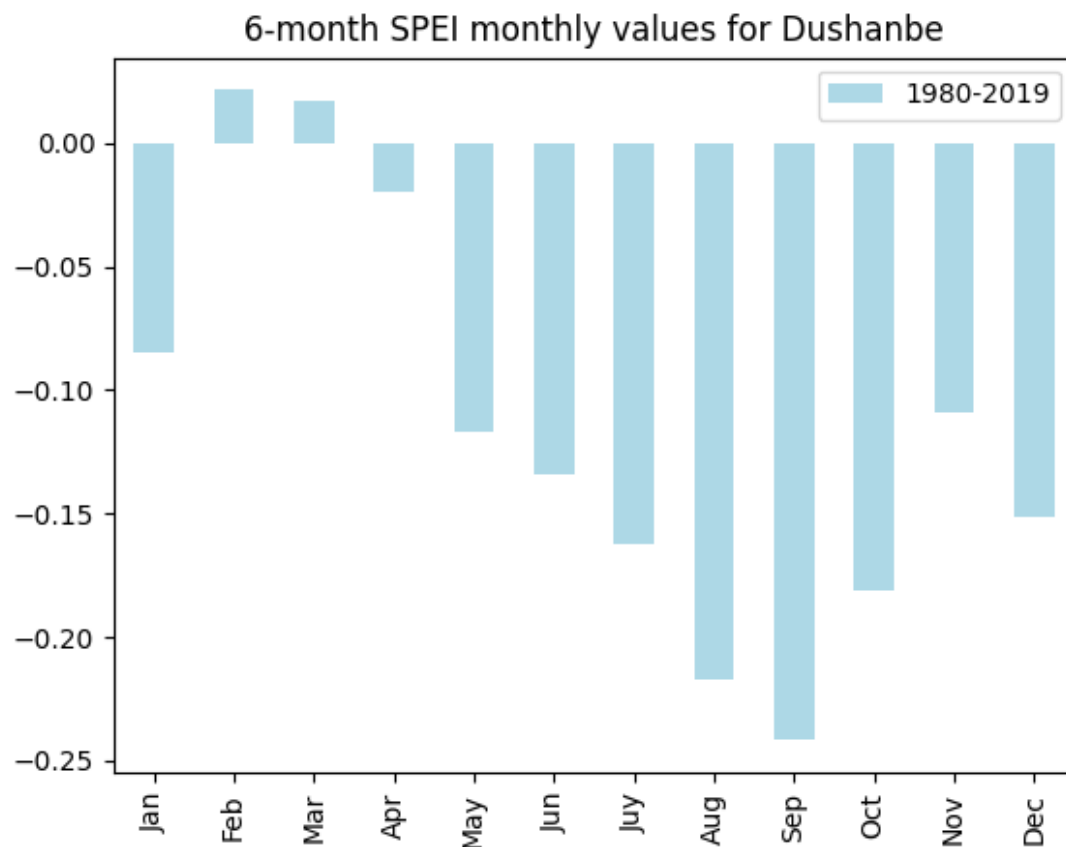
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 6-month drought index for Dushanbe

6-month SPEI monthly averages for Dushanbe



Location

Dushanbe

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

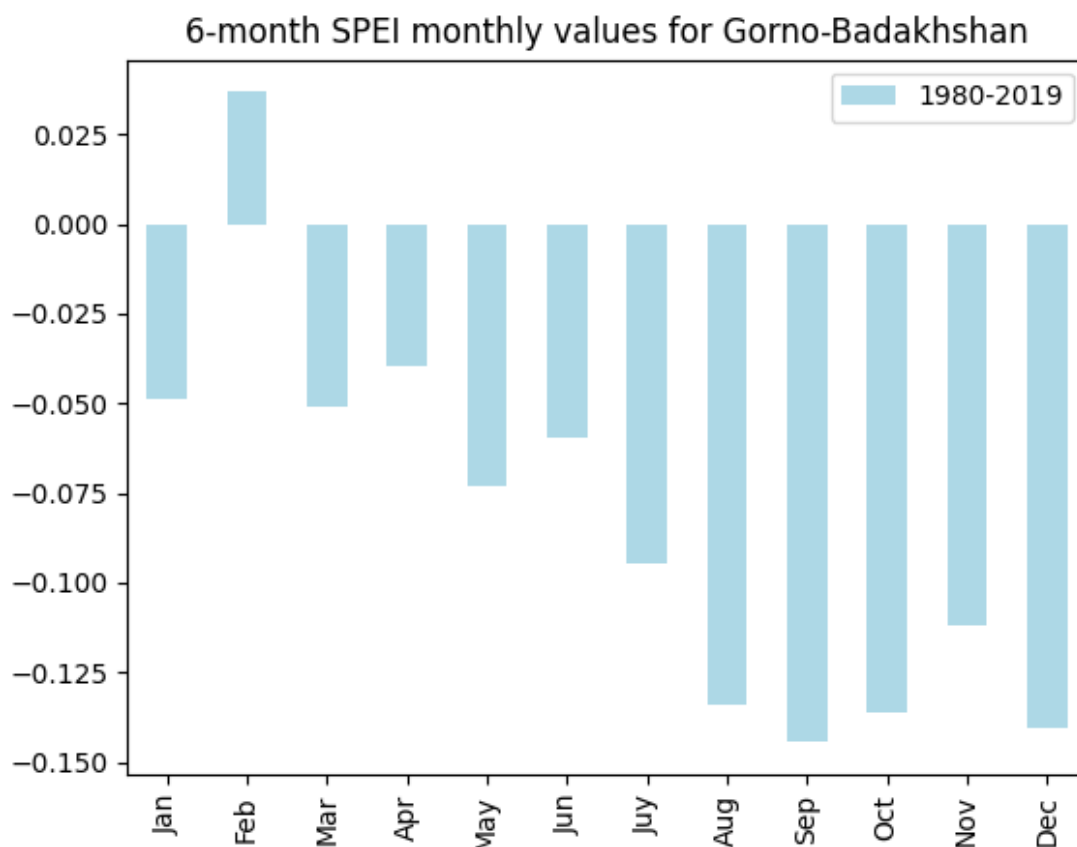
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 6-month drought index for Gorno-Badakhshan

6-month SPEI monthly averages for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

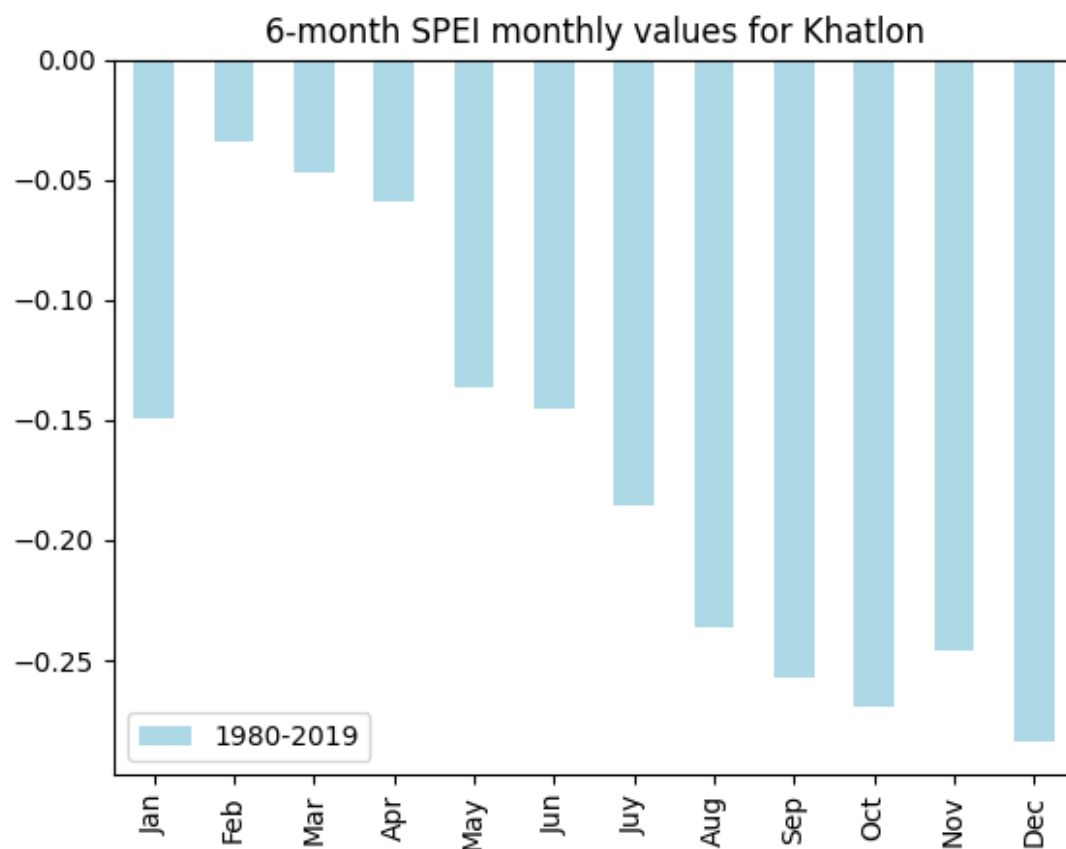
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 6-month drought index for Khatlon

6-month SPEI monthly averages for Khatlon



Location

Khatlon

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

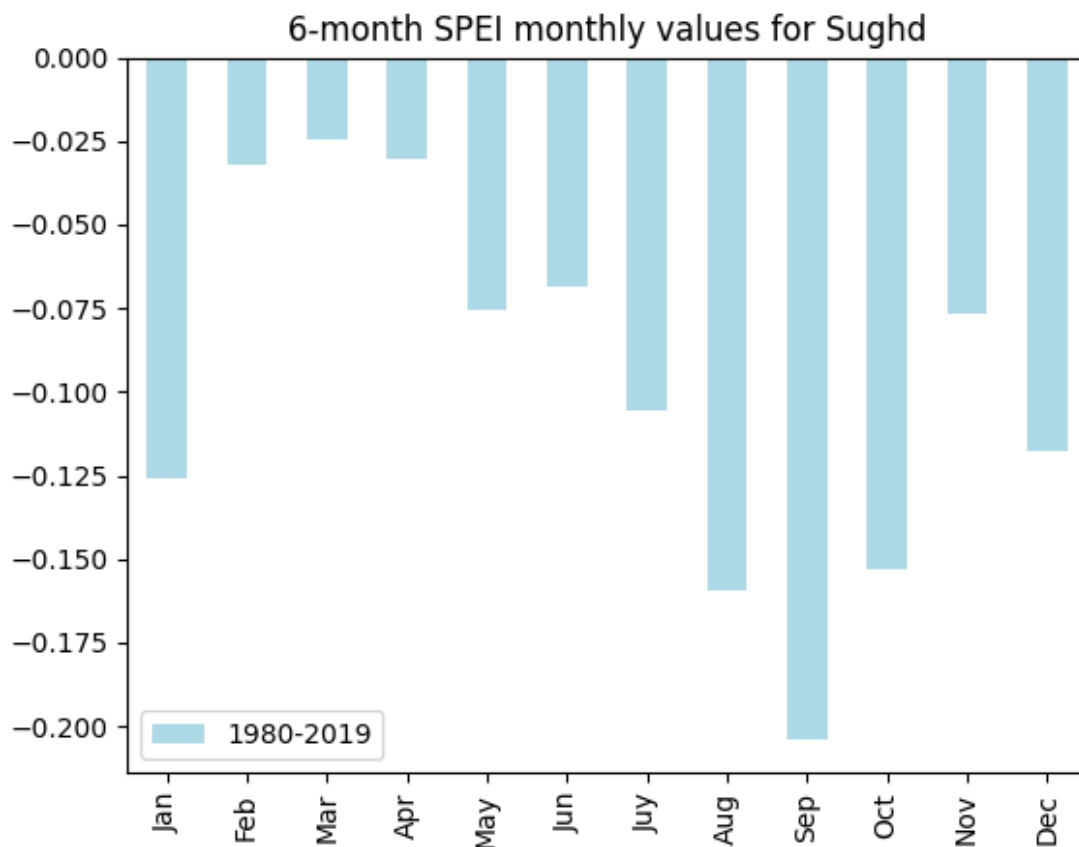
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 6-month drought index for Sughd

6-month SPEI monthly averages for Sughd



Location

Sughd

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

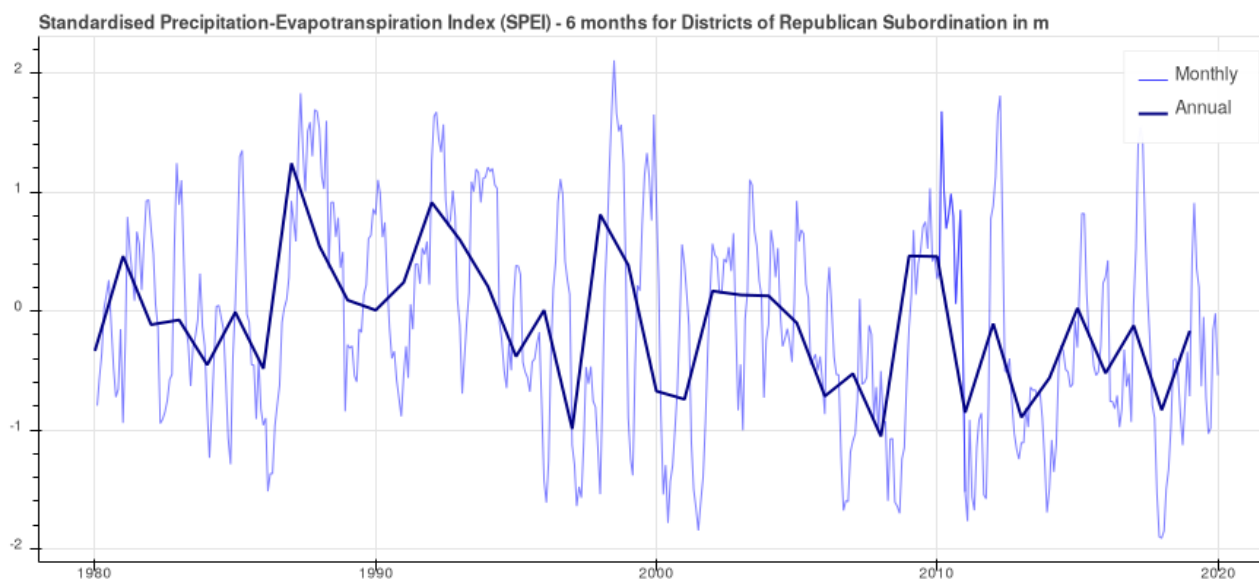
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 6-month drought index for Districts of Republican Subordination

6-month SPEI monthly and annual values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination.

Patterns

About the data

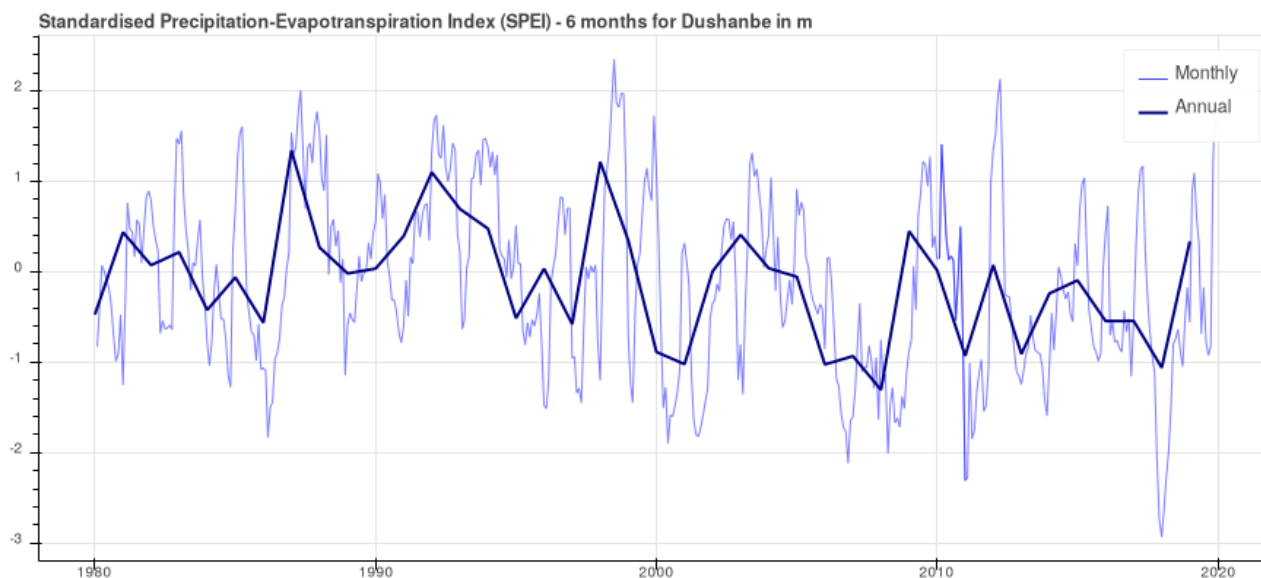
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 6-month drought index for Dushanbe

6-month SPEI monthly and annual values for Dushanbe



Location

Dushanbe

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Dushanbe.

Patterns

About the data

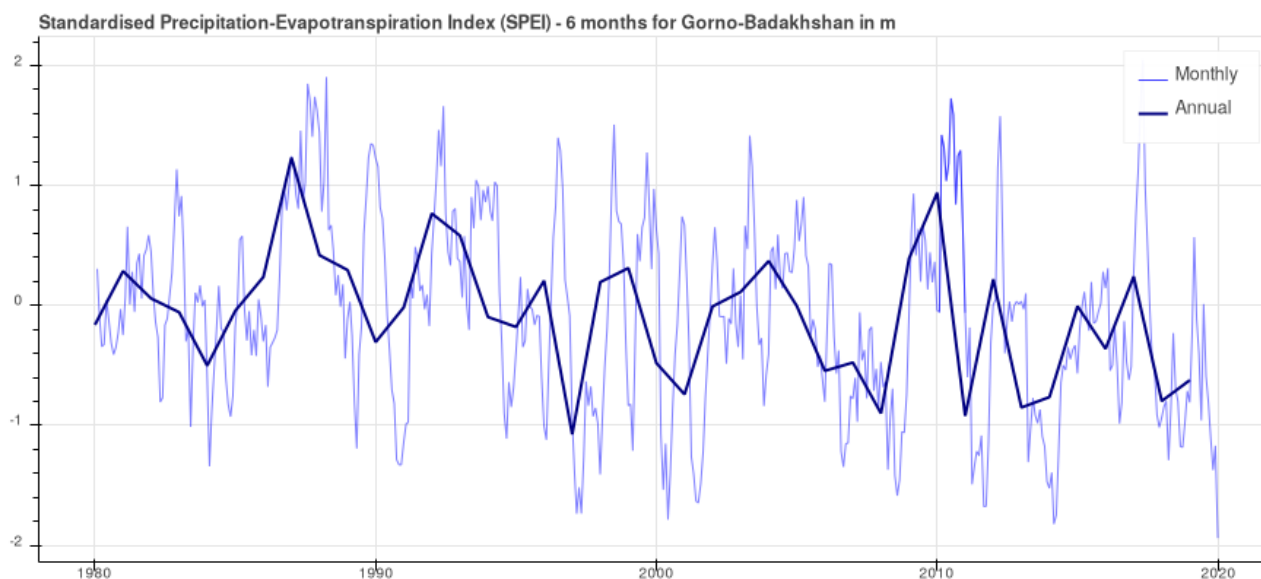
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 6-month drought index for Gorno-Badakhshan

6-month SPEI monthly and annual values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan.

Patterns

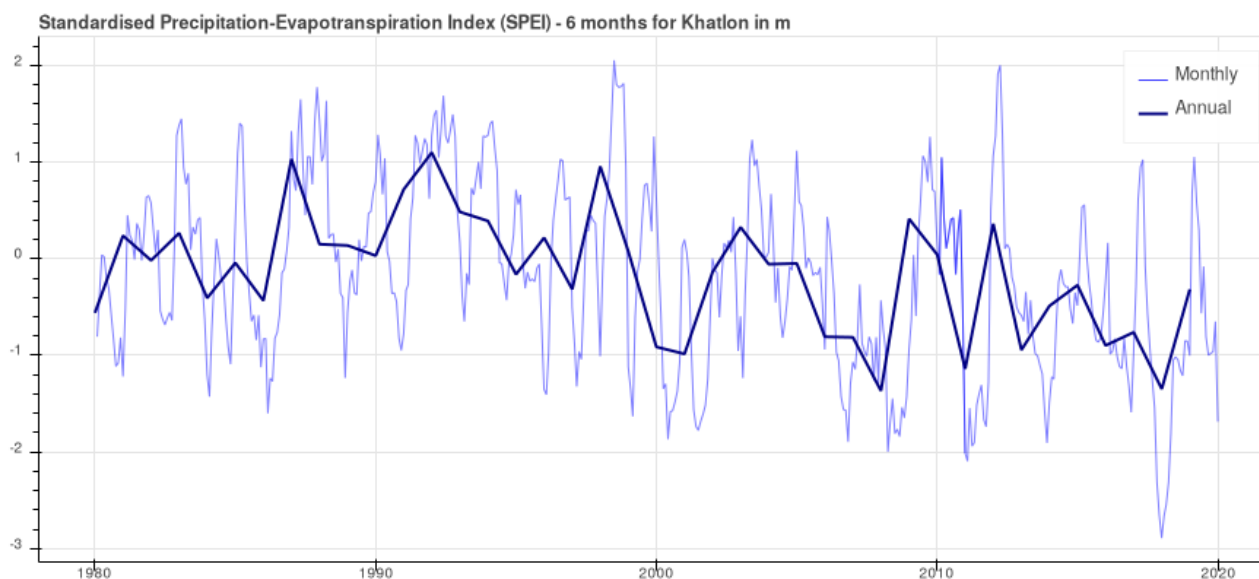
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

6-month SPEI monthly and annual values for Khatlon



Location

Khatlon

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Khatlon.

Patterns

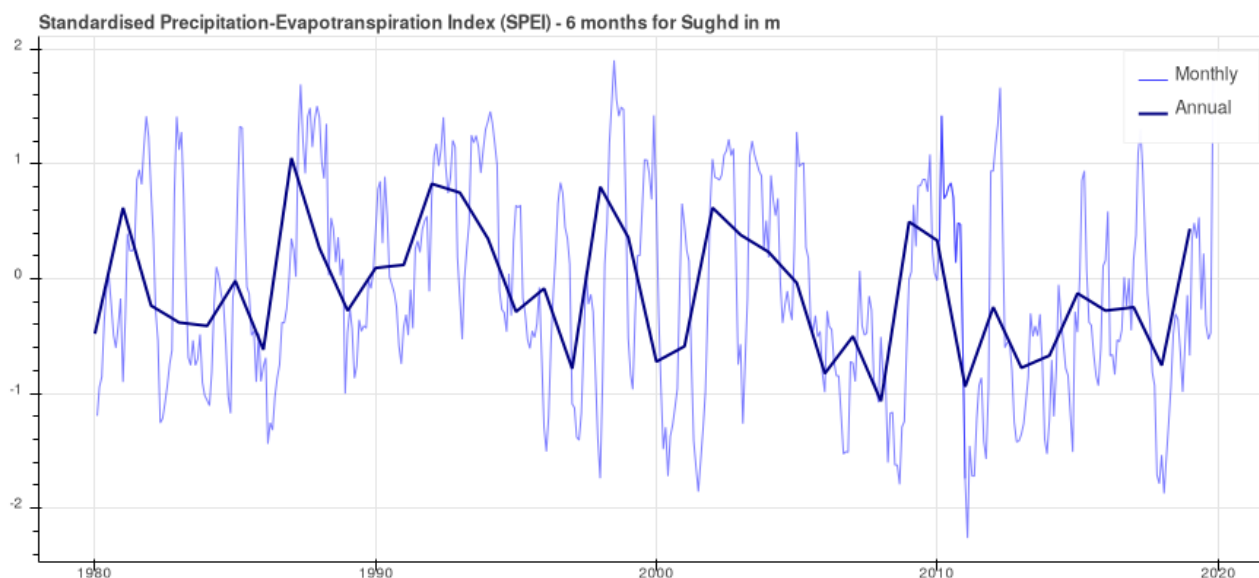
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

6-month SPEI monthly and annual values for Sughd



Location

Sughd

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Sughd.

Patterns

About the data

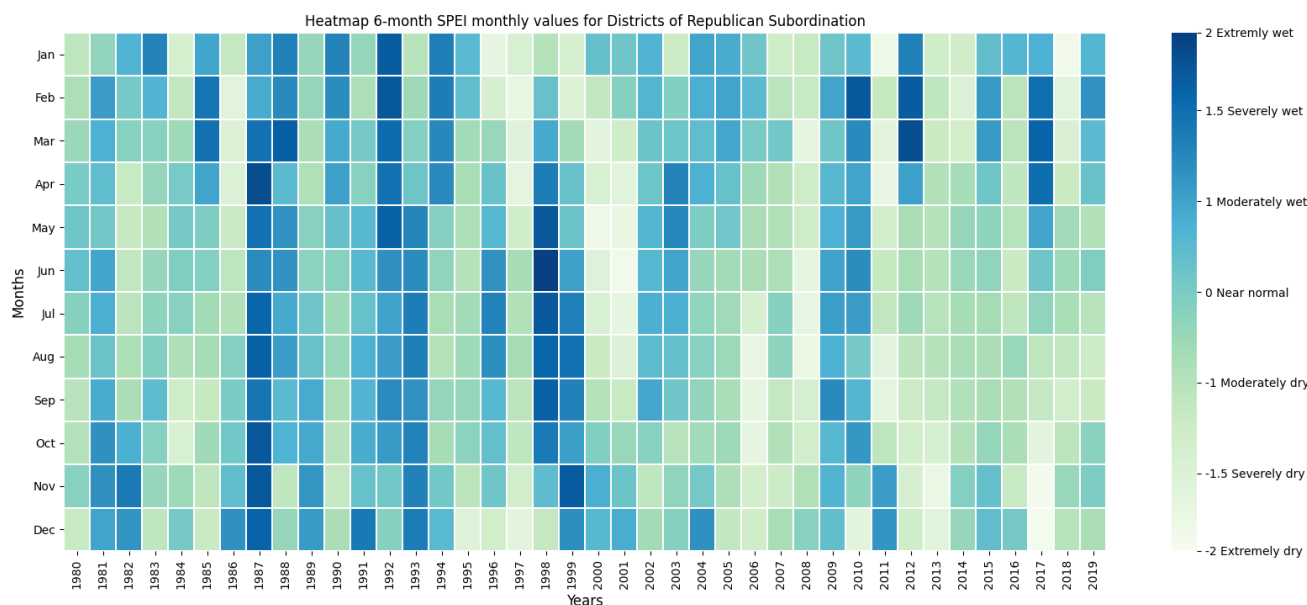
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 6-month drought index for Districts of Republican Subordination

Heatmap 6-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

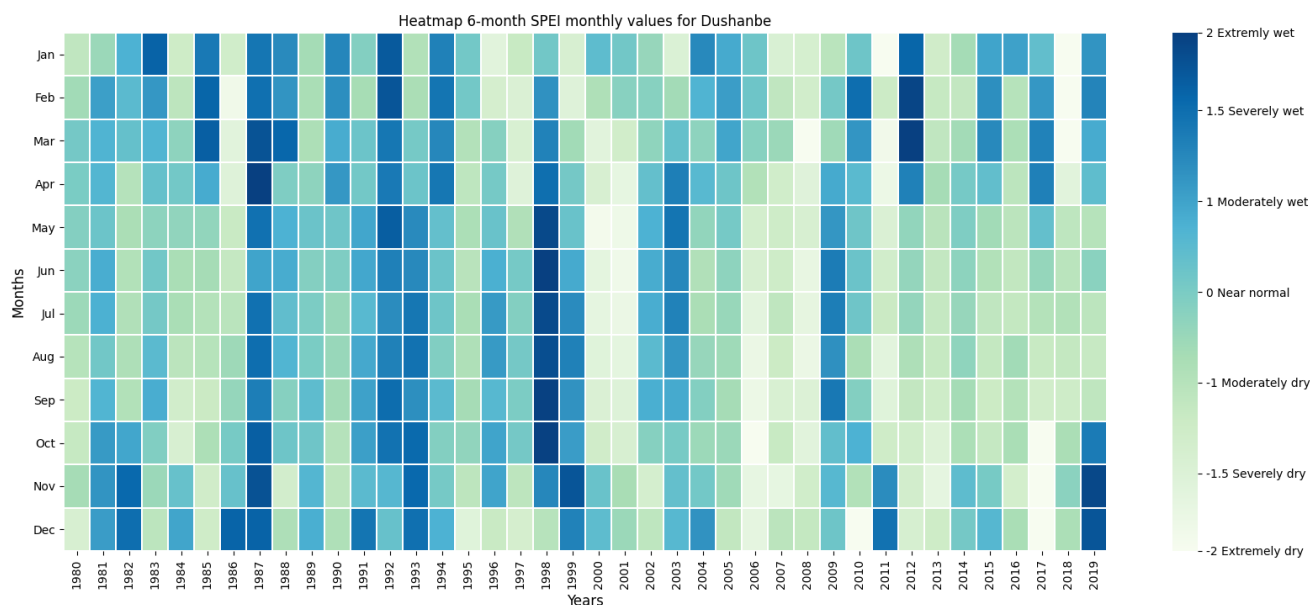
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 6-month drought index for Dushanbe

Heatmap 6-month SPEI monthly values for Dushanbe



Location

Dushanbe

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

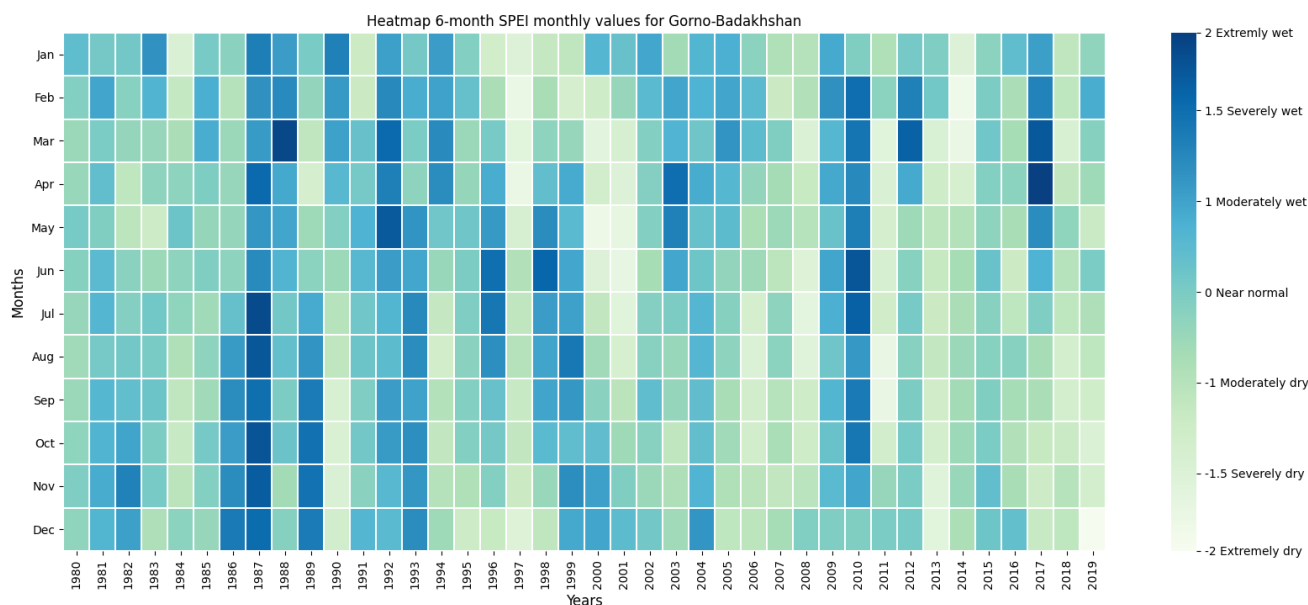
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 6-month drought index for Gorno-Badakhshan

Heatmap 6-month SPEI monthly values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

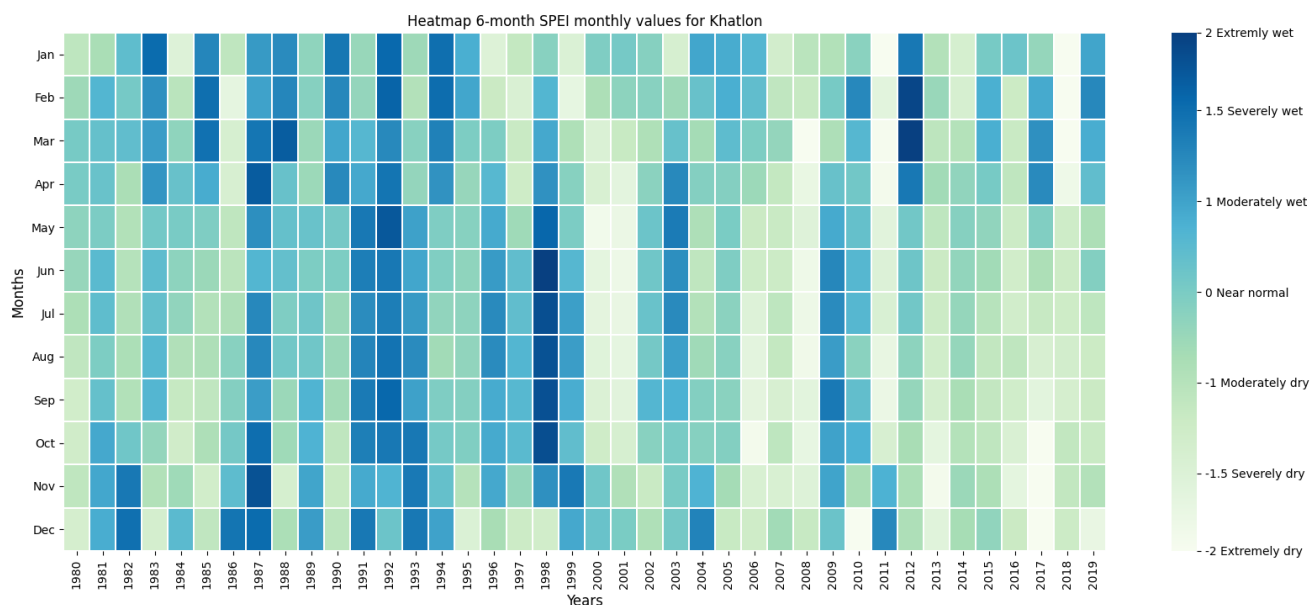
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 6-month drought index for Khatlon

Heatmap 6-month SPEI monthly values for Khatlon



Location

Khatlon

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

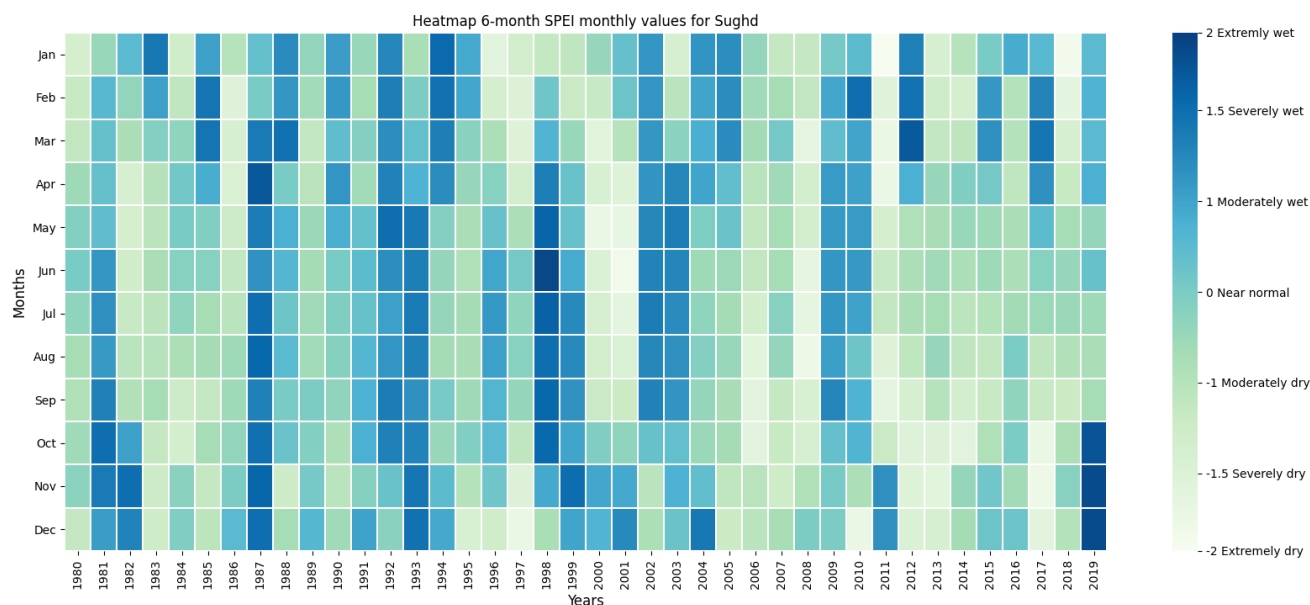
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 6-month drought index for Sughd

Heatmap 6-month SPEI monthly values for Sughd



Location

Sughd

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (6-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

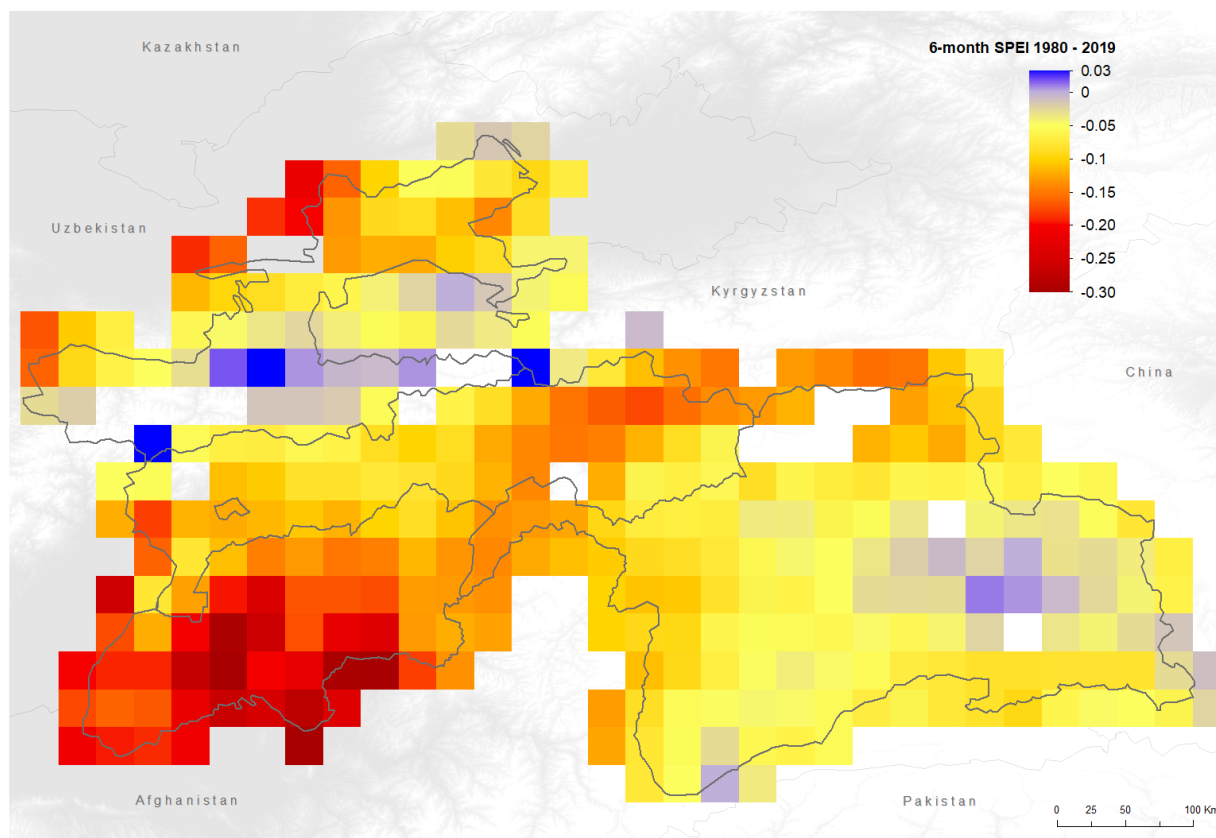
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Average 6-month SPEI



Location

Tajikistan

Description

This map shows average standardised precipitation and evapotranspiration index (SPEI) values for a 6-month accumulation during the period 1980 to 2019. This indicator can be used to indicate areas that experience meteorological drought. As this indicator represents long-term average values, positive values do not mean that drought has not occurred during the observation period.

Patterns

About the data

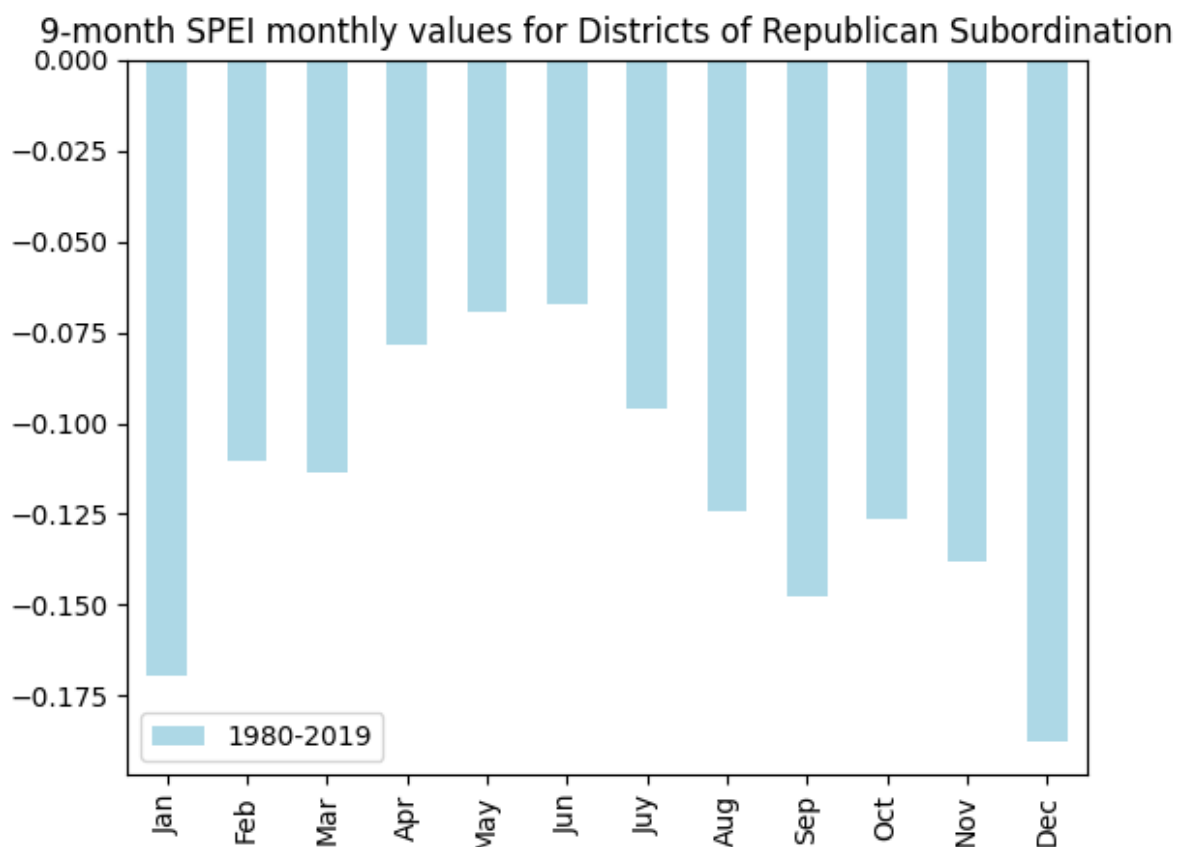
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 9-month drought index for Districts of Republican Subordination

9-month SPEI monthly averages for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

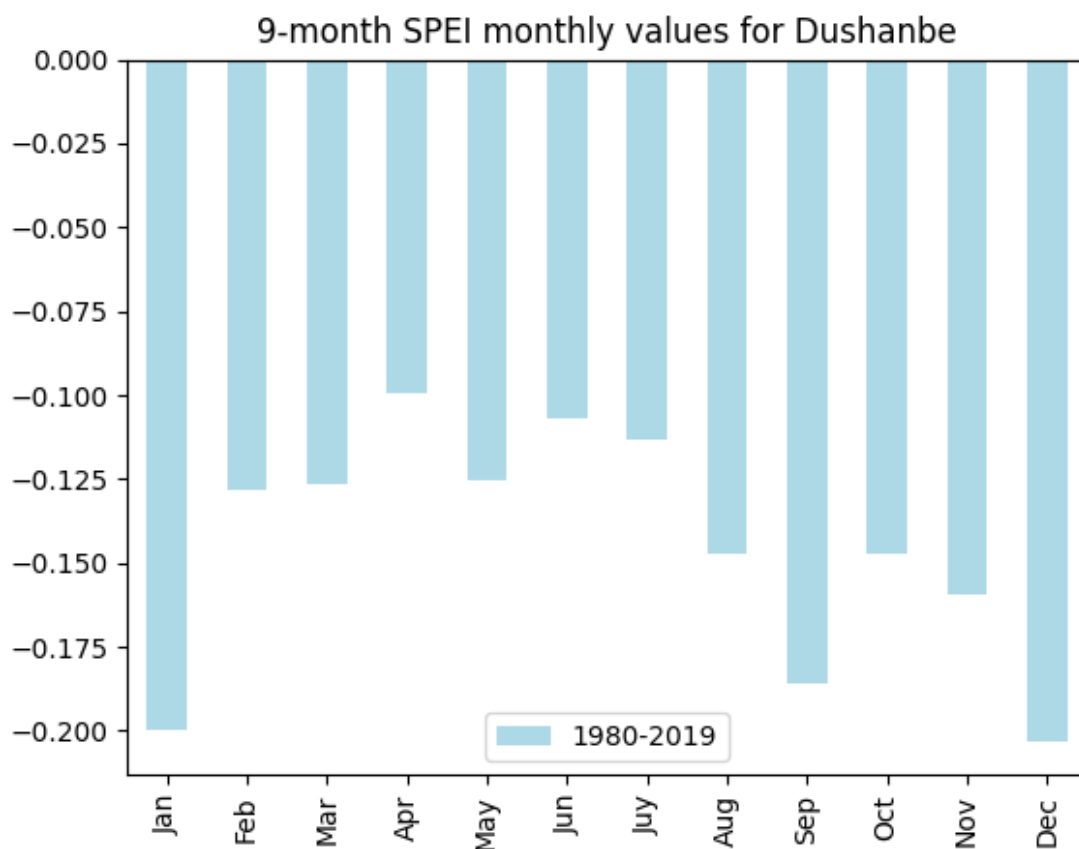
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 9-month drought index for Dushanbe

9-month SPEI monthly averages for Dushanbe



Location

Dushanbe

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

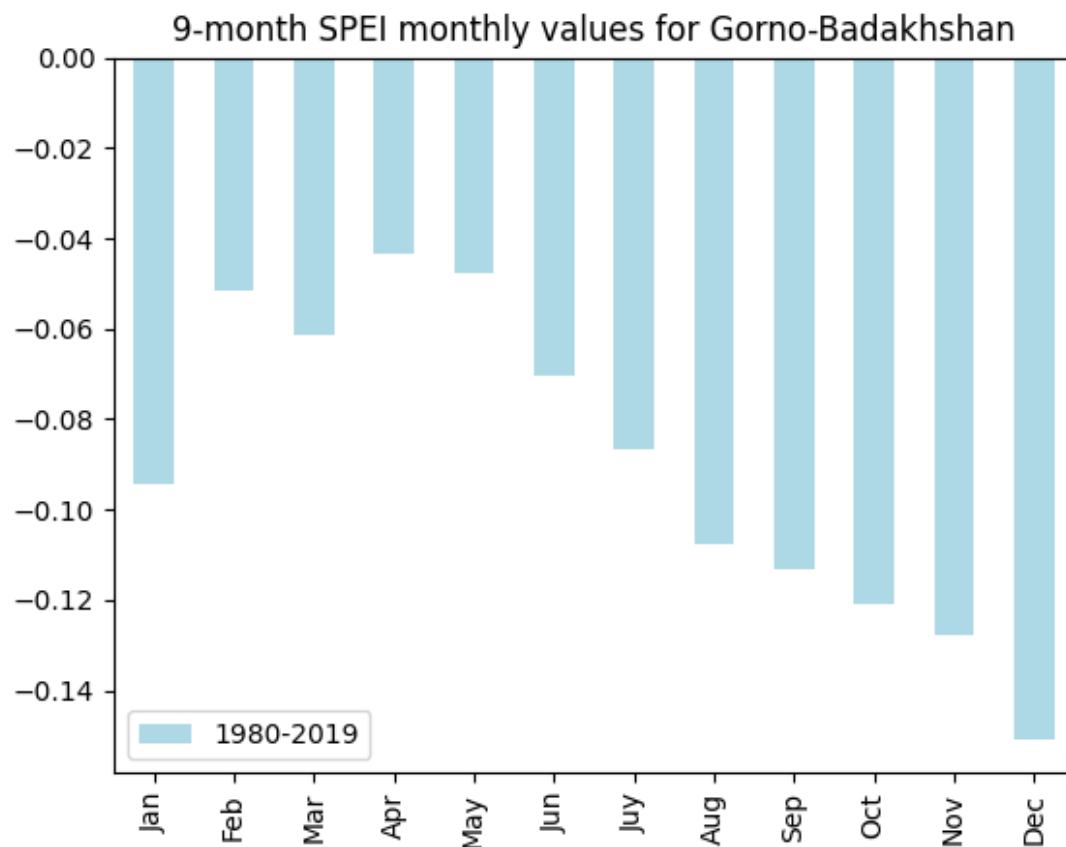
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 9-month drought index for Gorno-Badakhshan

9-month SPEI monthly averages for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

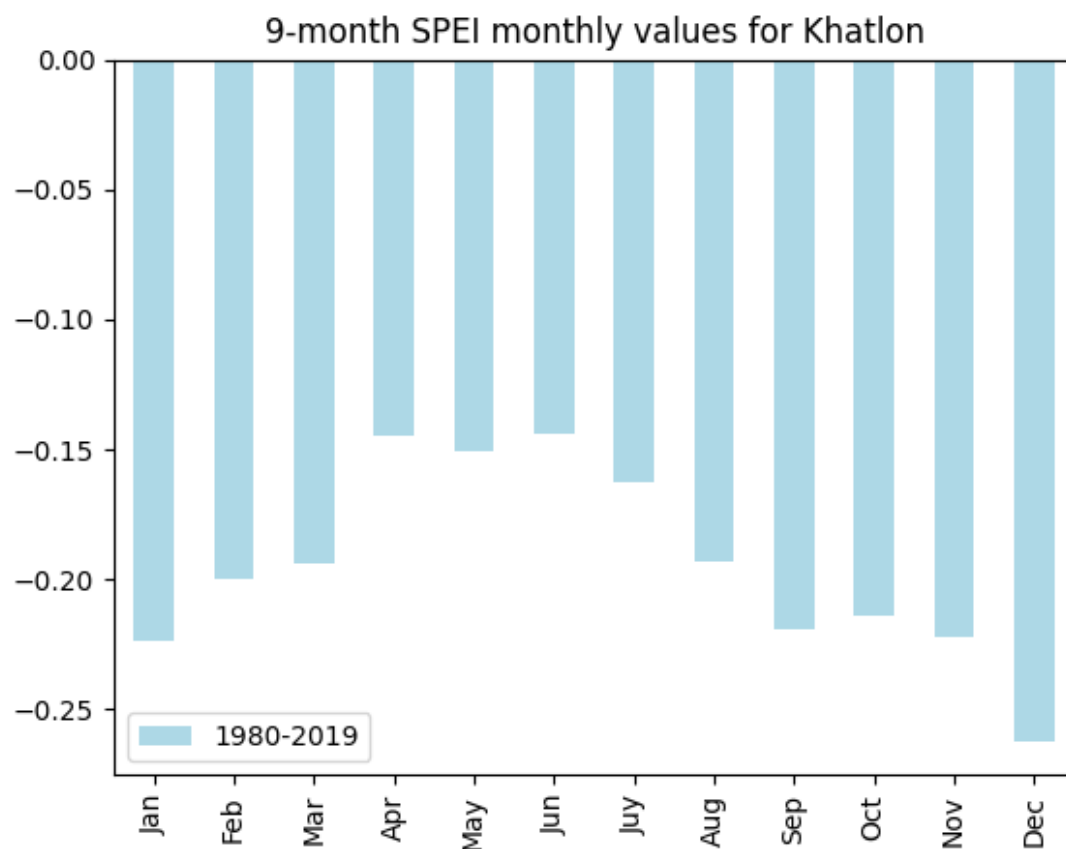
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 9-month drought index for Khatlon

9-month SPEI monthly averages for Khatlon



Location

Khatlon

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

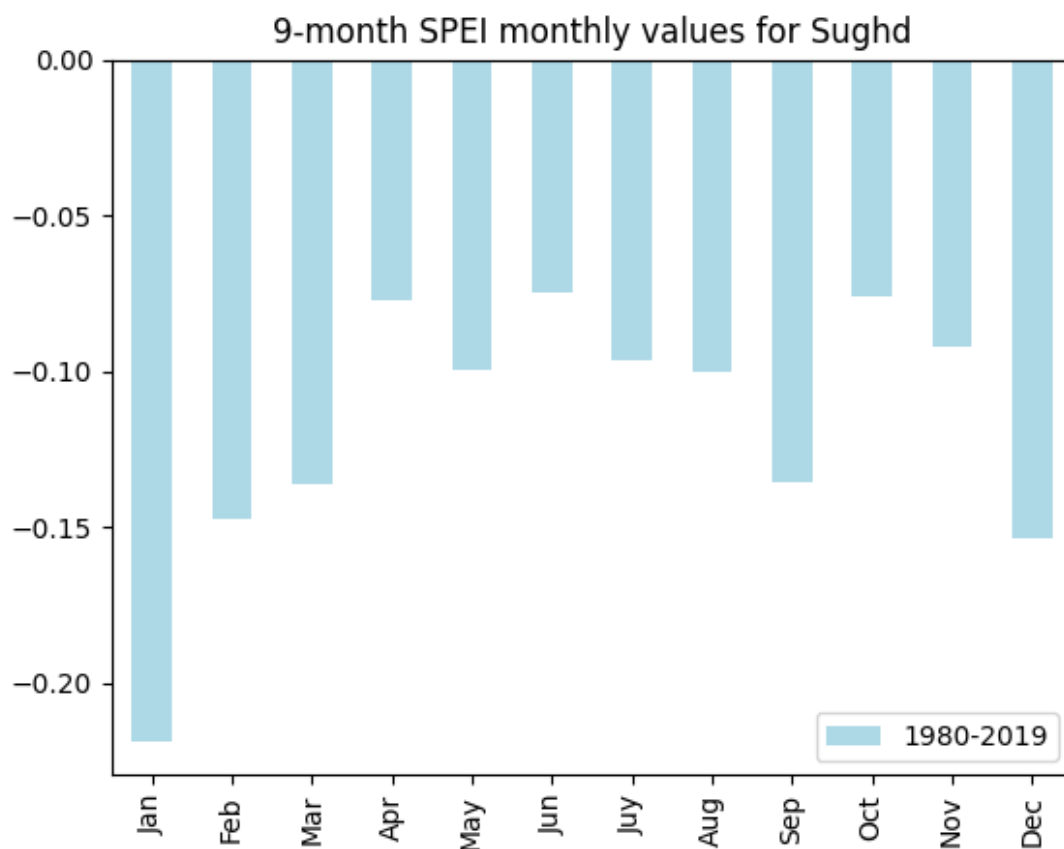
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 9-month drought index for Sughd

9-month SPEI monthly averages for Sughd



Location

Sughd

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

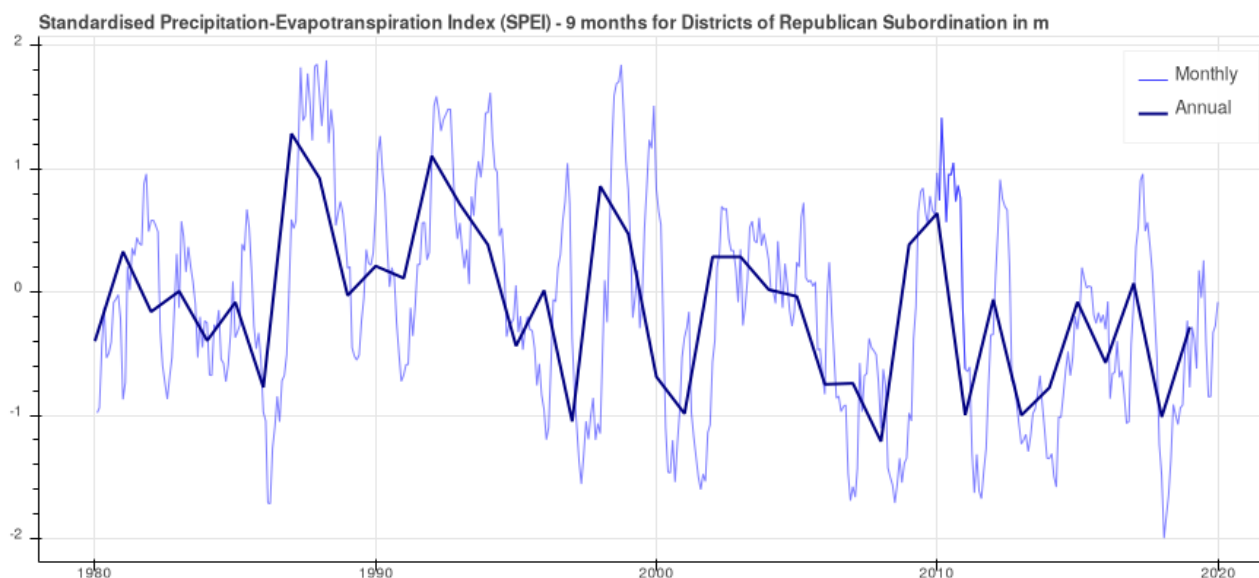
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 9-month drought index for Districts of Republican Subordination

9-month SPEI monthly and annual values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

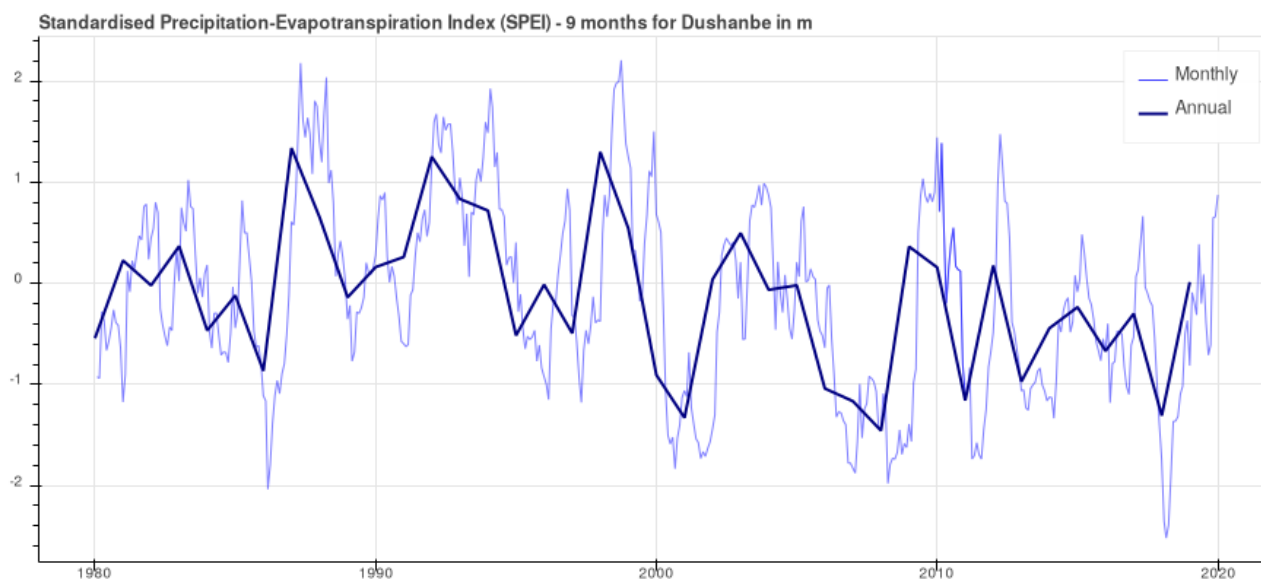
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 9-month drought index for Dushanbe

9-month SPEI monthly and annual values for Dushanbe



Location

Dushanbe

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

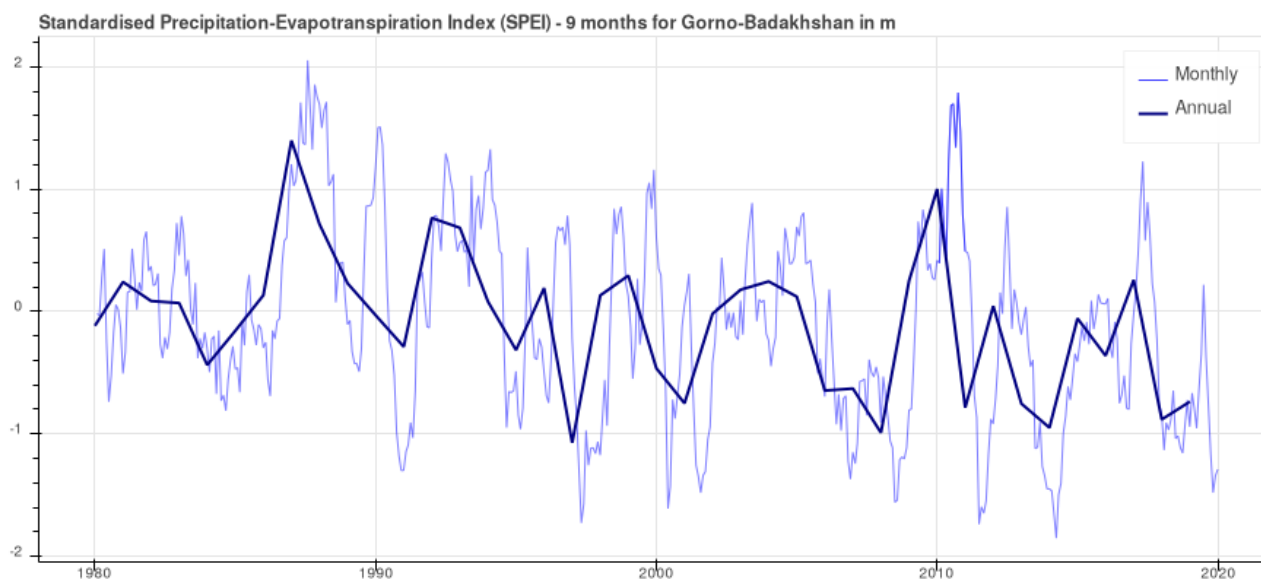
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 9-month drought index for Gorno-Badakhshan

9-month SPEI monthly and annual values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

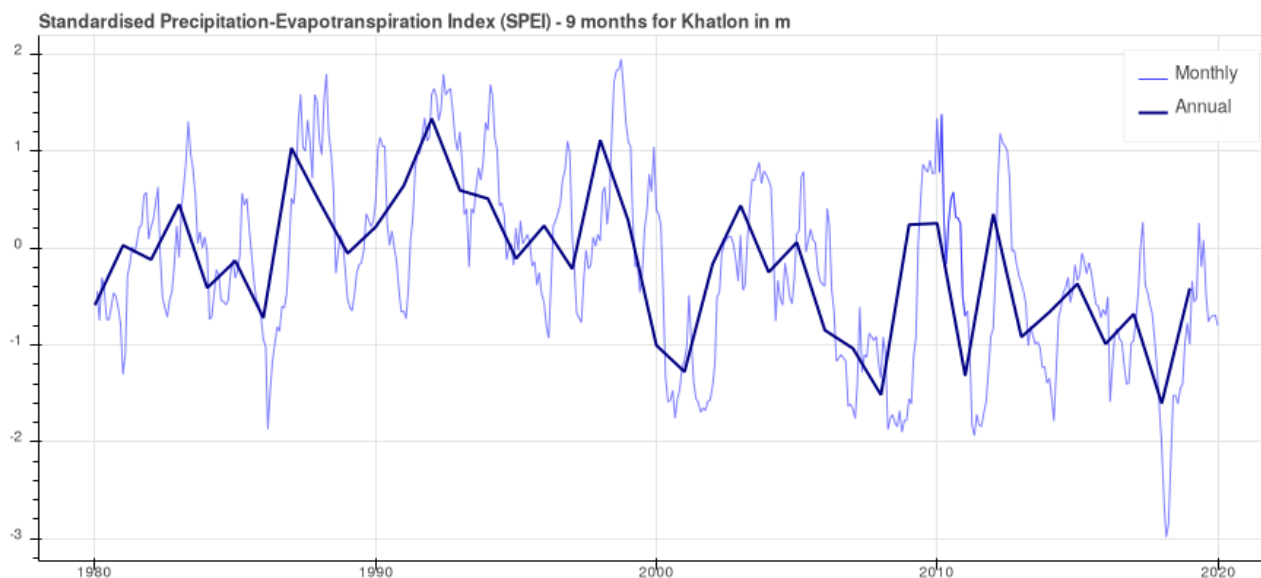
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

9-month SPEI monthly and annual values for Khatlon



Location

Khatlon

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

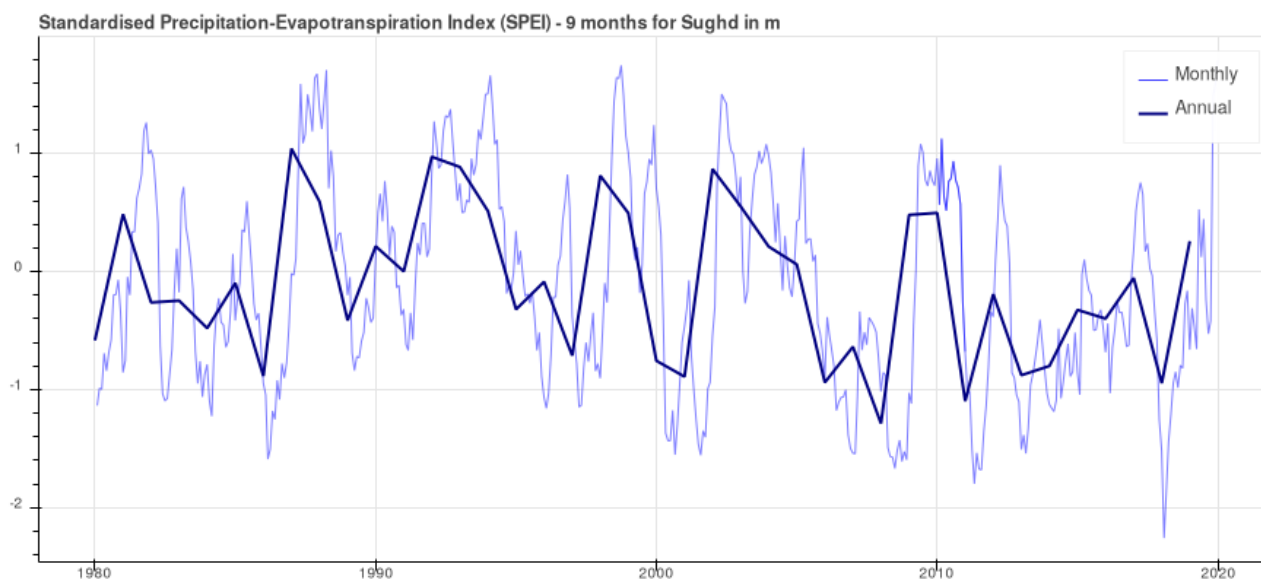
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

9-month SPEI monthly and annual values for Sughd



Location

Sughd

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

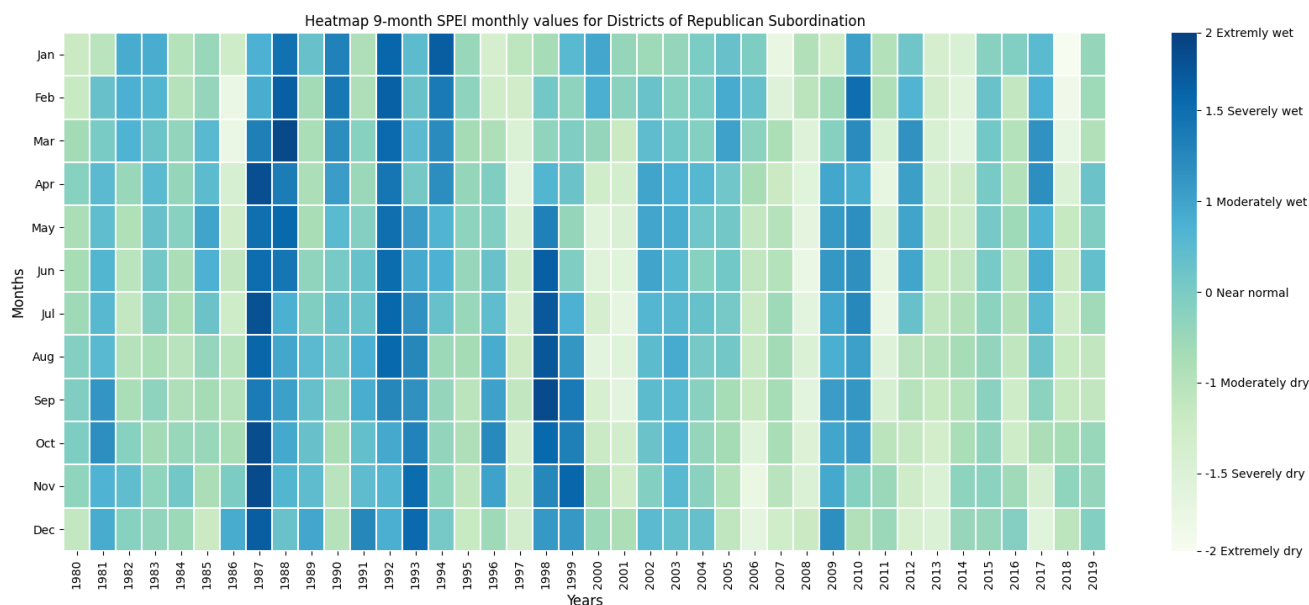
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 9-month drought index for Districts of Republican Subordination

Heatmap 9-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

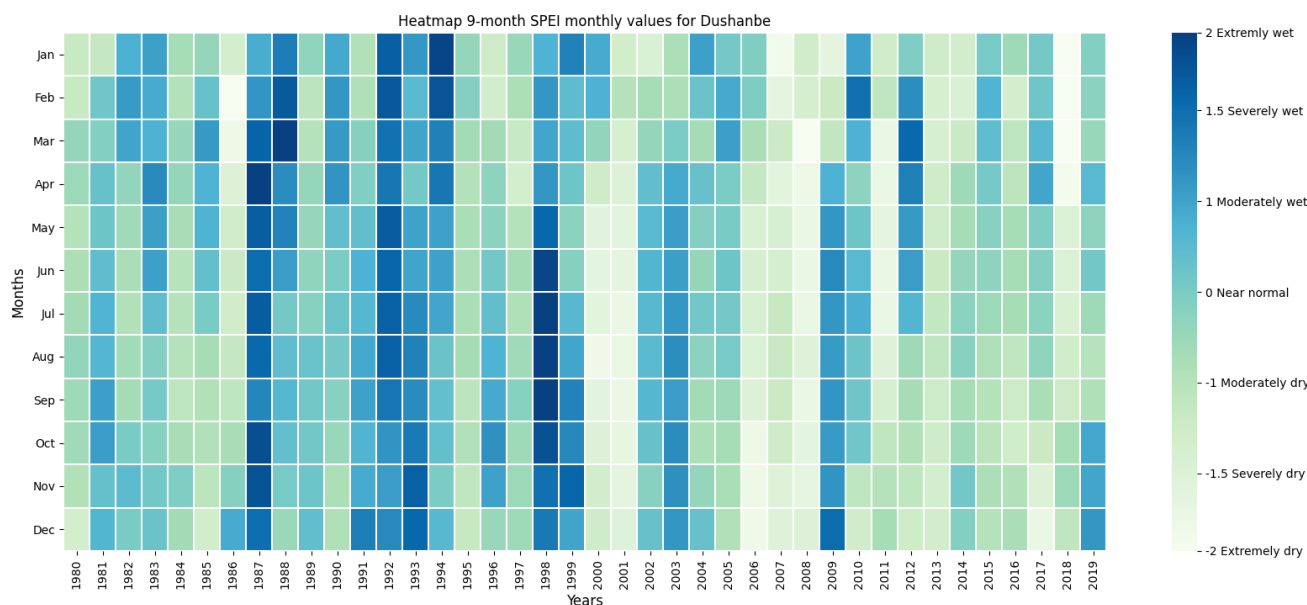
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 9-month drought index for Dushanbe

Heatmap 9-month SPEI monthly values for Dushanbe



Location

Dushanbe

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

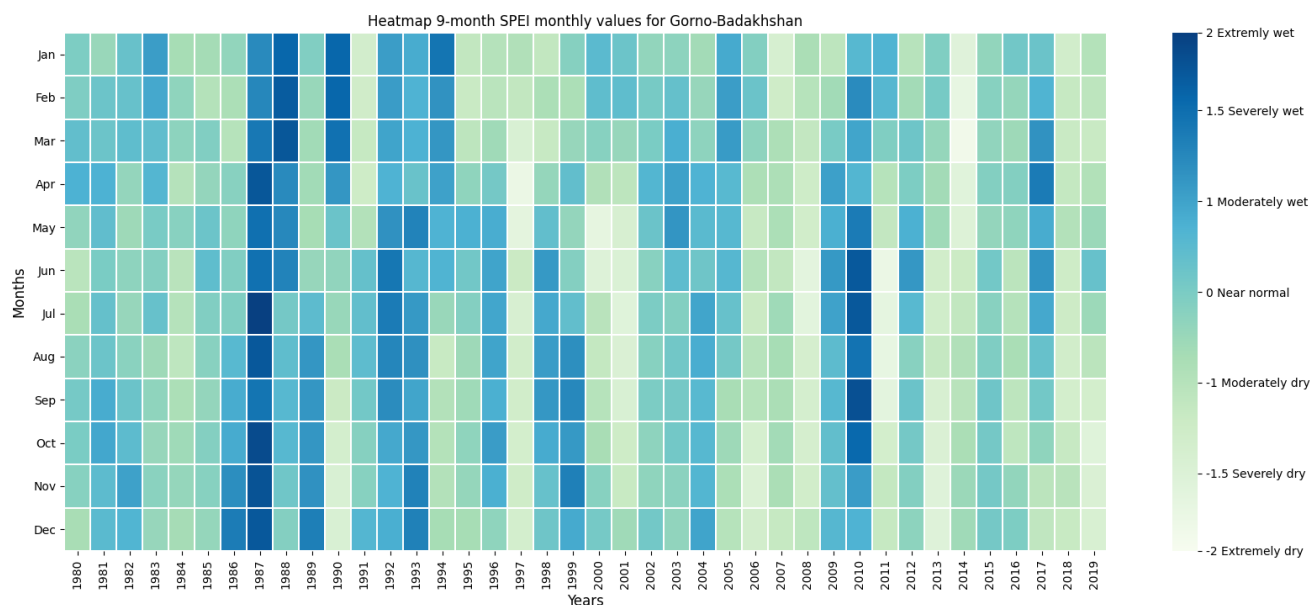
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 9-month drought index for Gorno-Badakhshan

Heatmap 9-month SPEI monthly values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

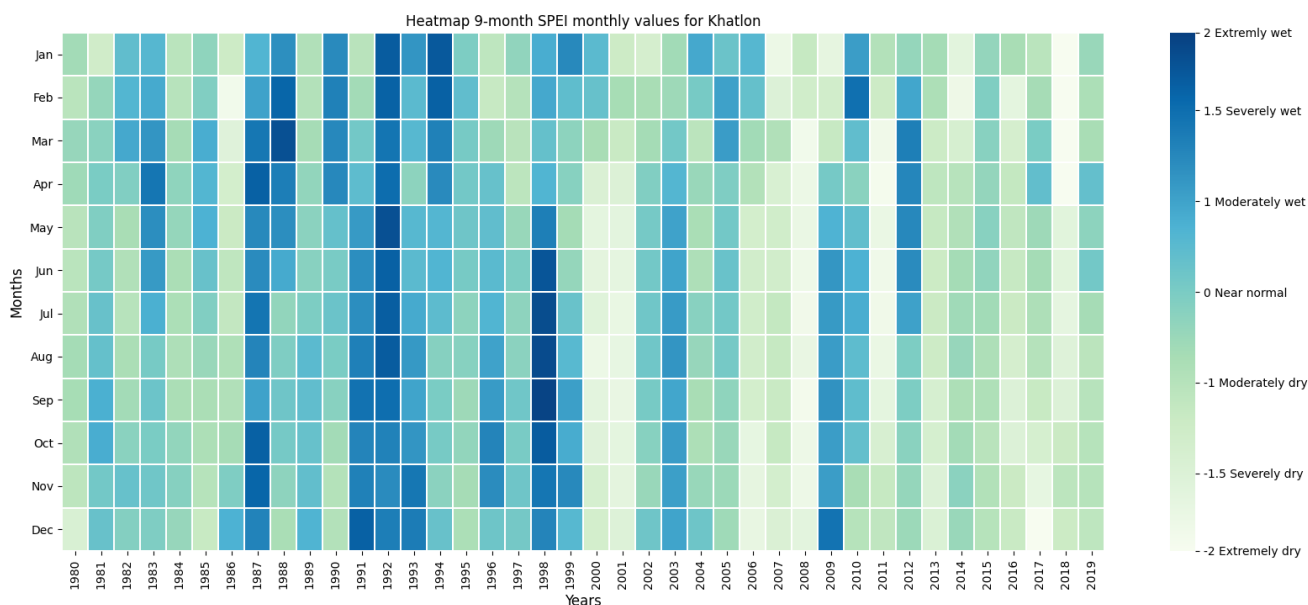
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 9-month drought index for Khatlon

Heatmap 9-month SPEI monthly values for Khatlon



Location

Khatlon

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

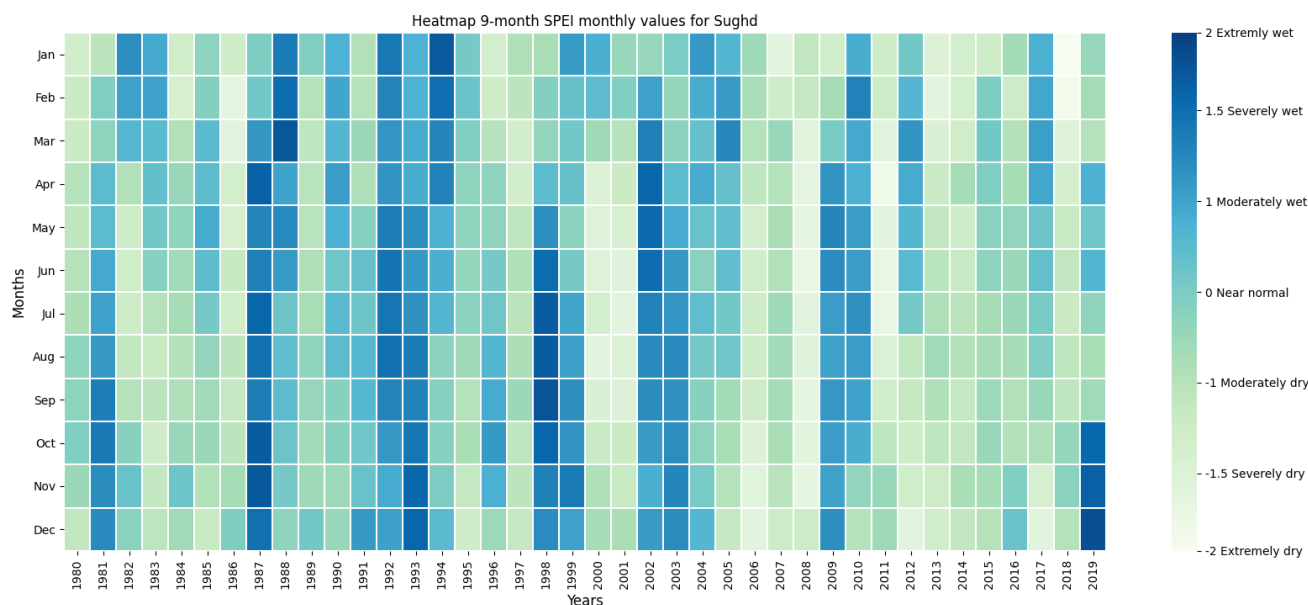
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 9-month drought index for Sughd

Heatmap 9-month SPEI monthly values for Sughd



Location

Sughd

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (9-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

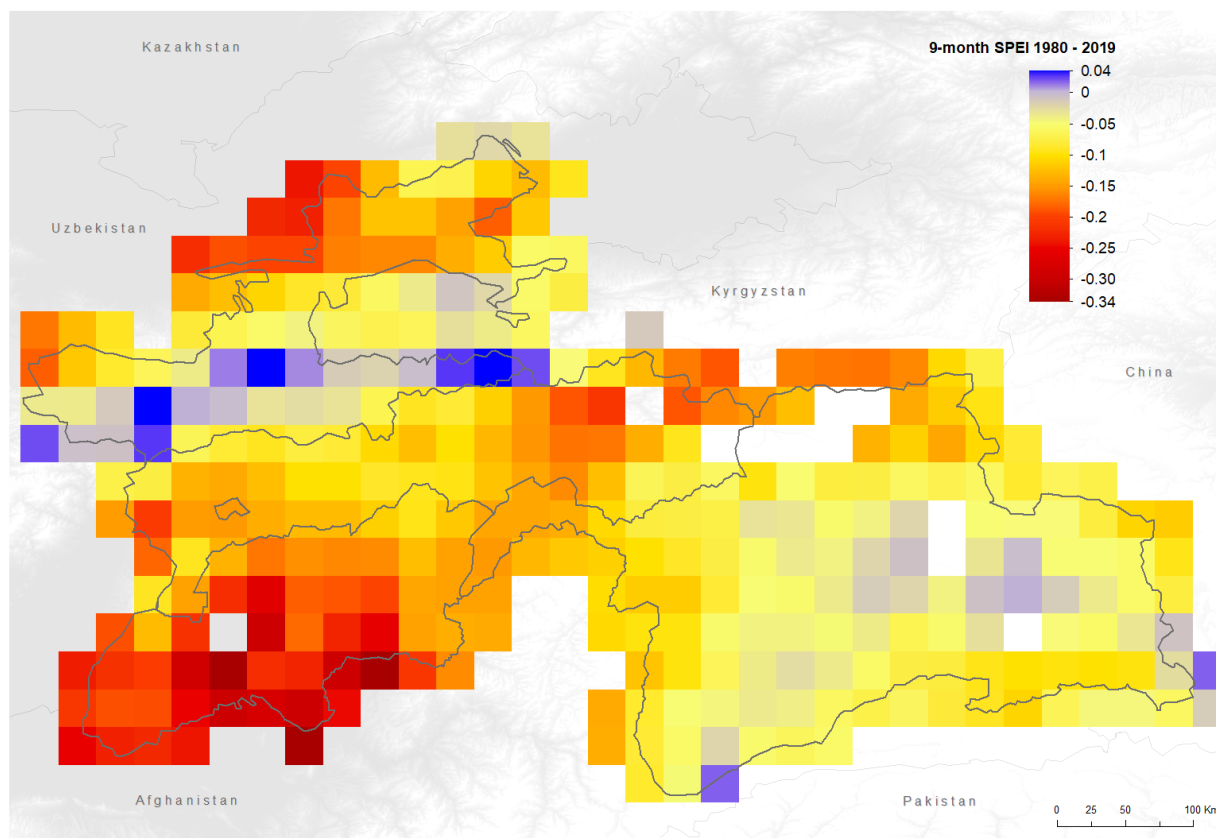
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Average 9-month SPEI



Location

Tajikistan

Description

This map shows average standardised precipitation and evapotranspiration index (SPEI) values for a 9-month accumulation during the period 1980 to 2019. This indicator can be used to indicate areas that experience agricultural drought. As this indicator represents long-term average values, positive values do not mean that drought has not occurred during the observation period.

Patterns

About the data

Prepared by EO4SD CR cluster

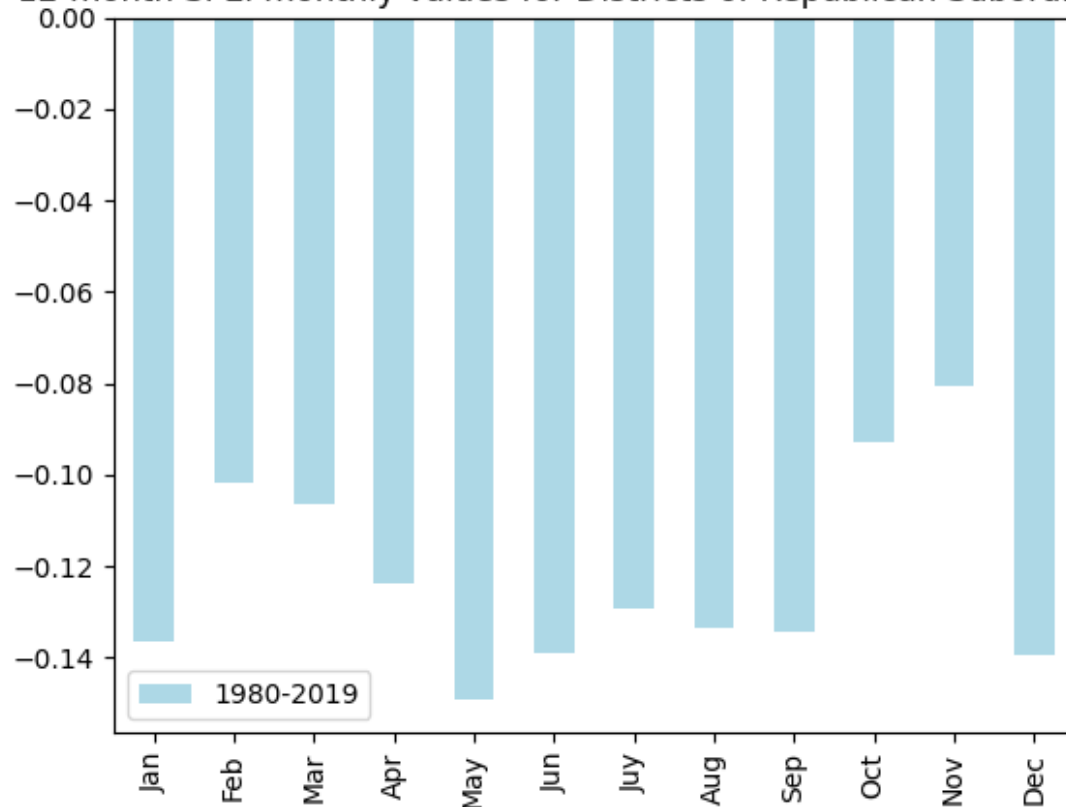
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 12-month drought index for Districts of Republican Subordination

12-month SPEI monthly averages for Districts of Republican Subordination

12-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

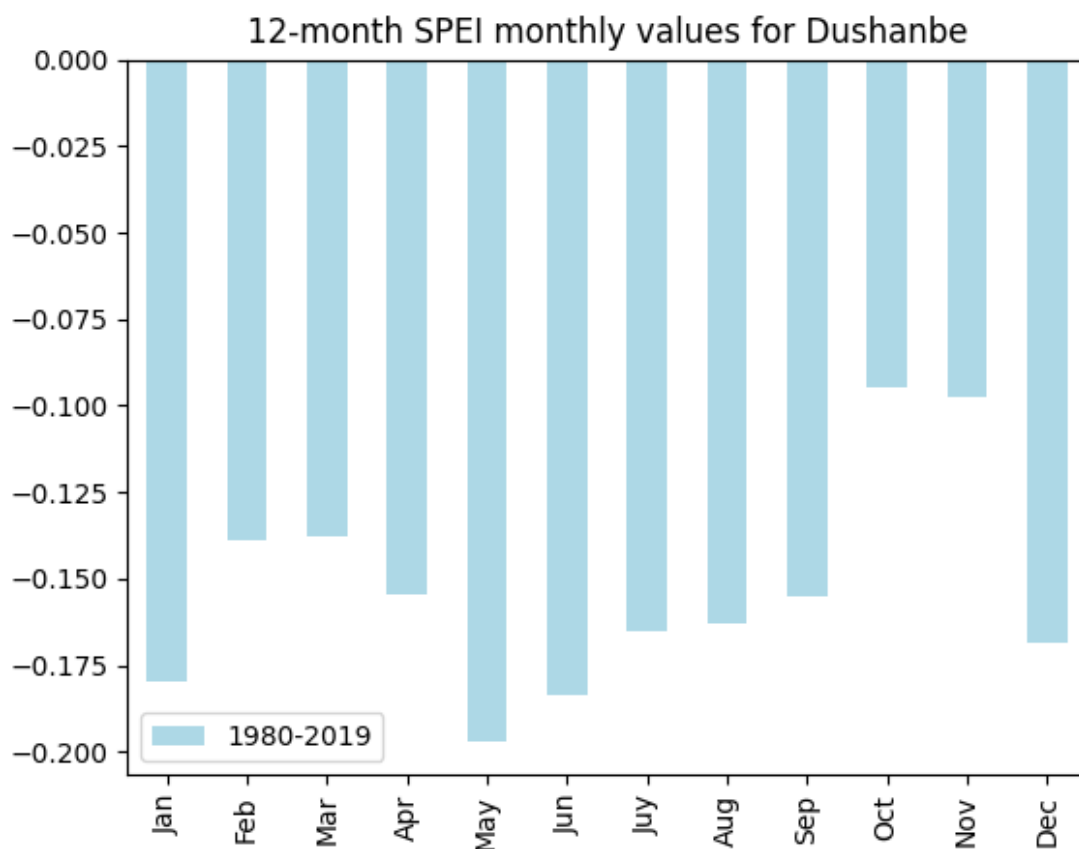
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 12-month drought index for Dushanbe

12-month SPEI monthly averages for Dushanbe



Location

Dushanbe

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

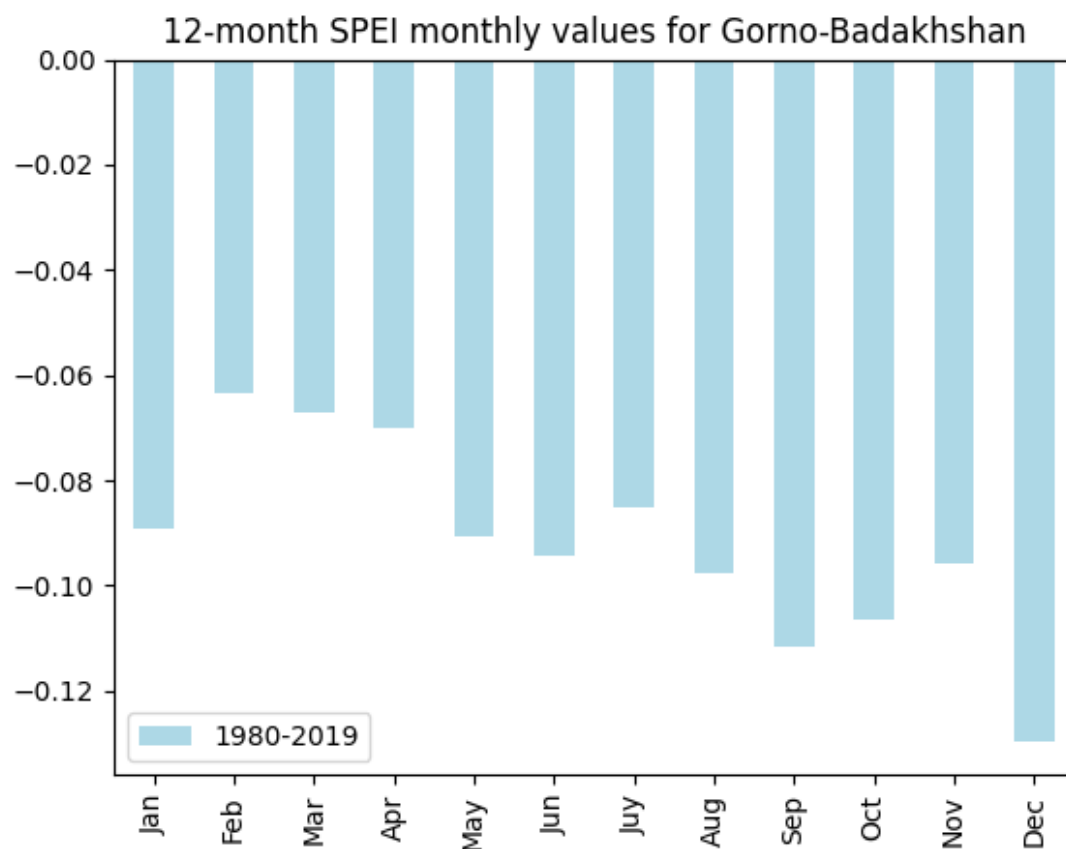
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 12-month drought index for Gorno-Badakhshan

12-month SPEI monthly averages for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

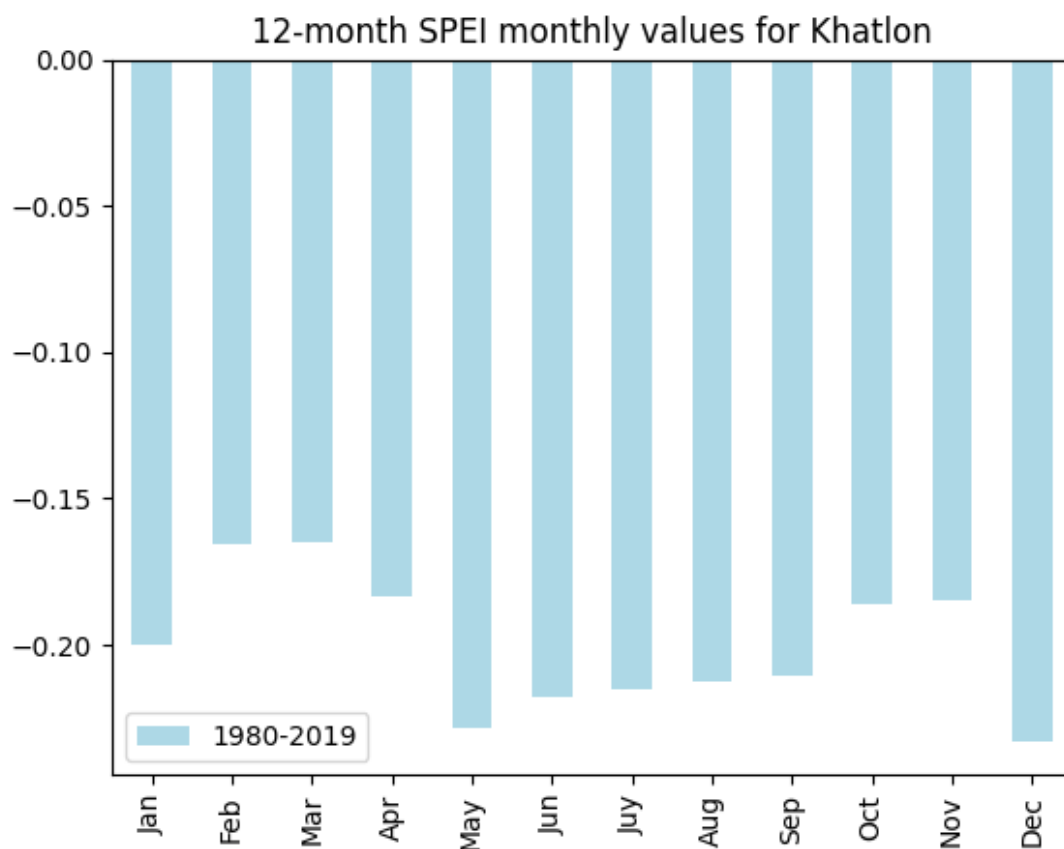
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 12-month drought index for Khatlon

12-month SPEI monthly averages for Khatlon



Location

Khatlon

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

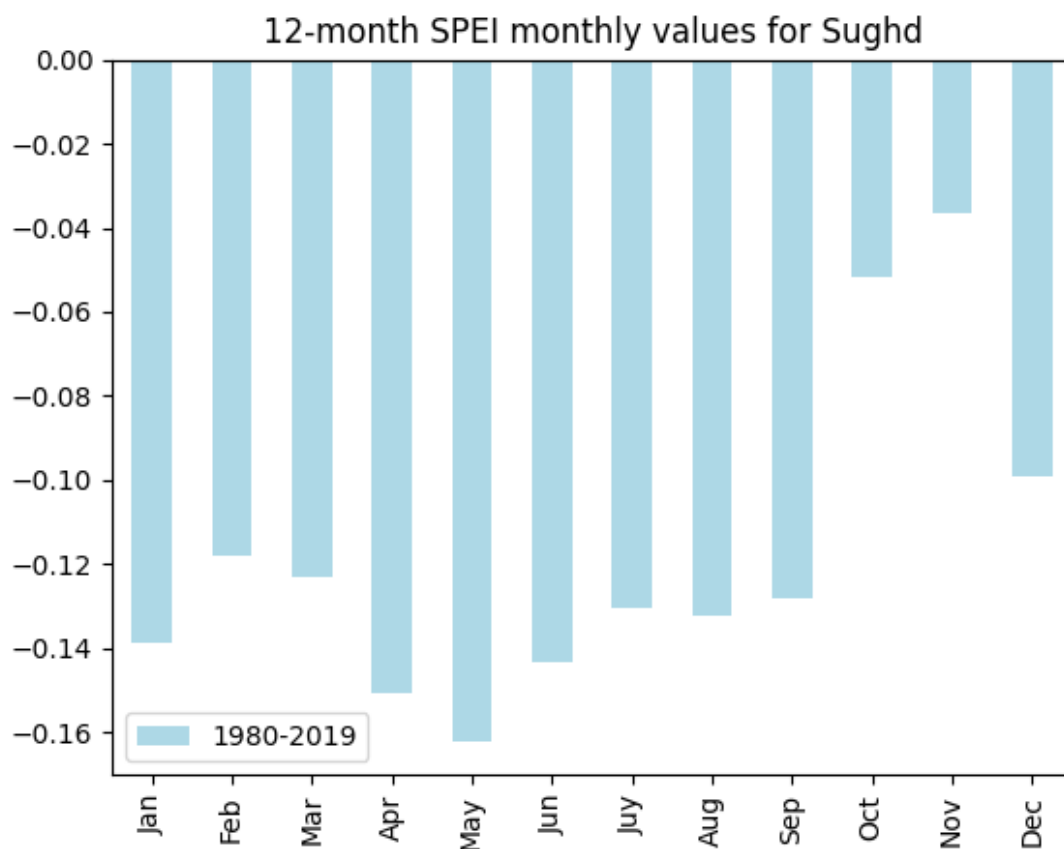
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly averages of 12-month drought index for Sughd

12-month SPEI monthly averages for Sughd



Location

Sughd

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

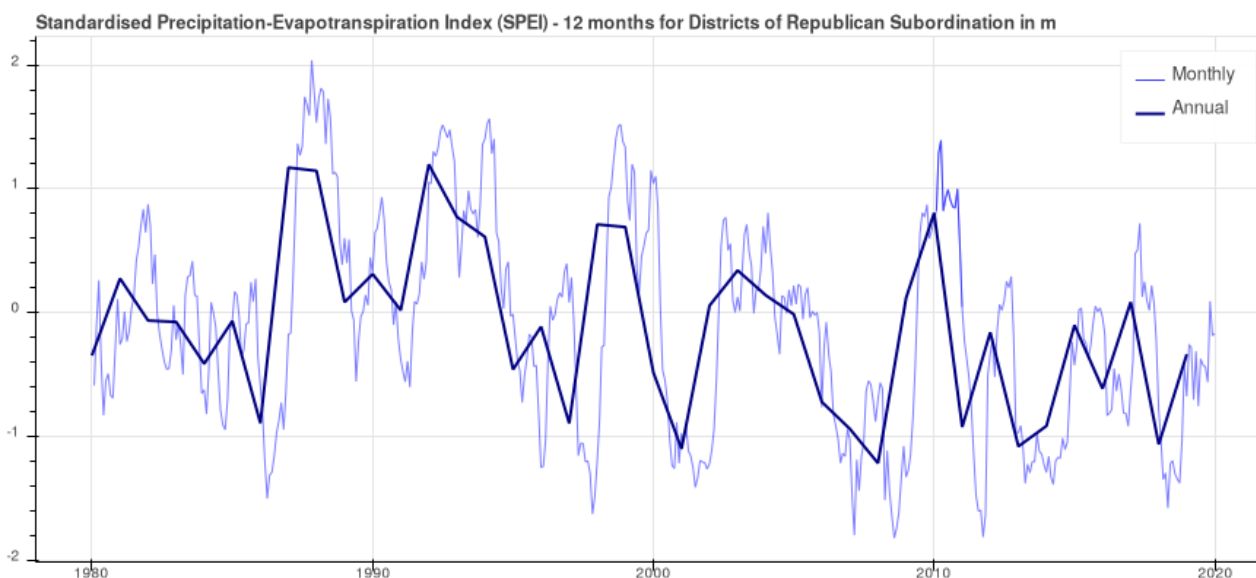
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 12-month drought index for Districts of Republican Subordination

12-month SPEI monthly and annual values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

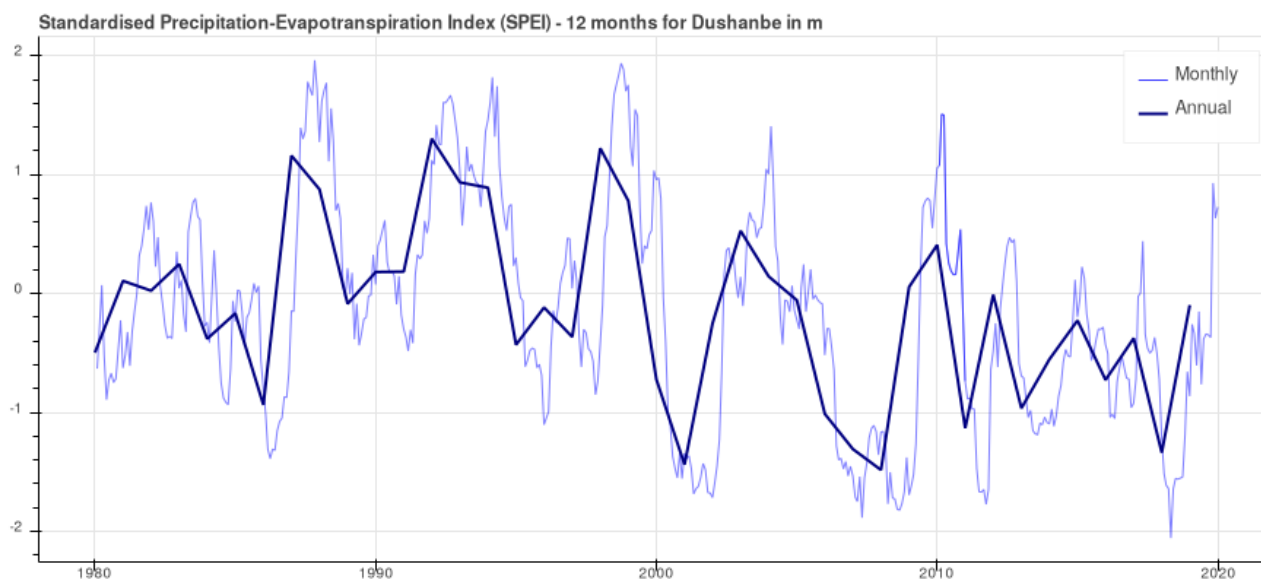
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 12-month drought index for Dushanbe

12-month SPEI monthly and annual values for Dushanbe



Location

Dushanbe

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

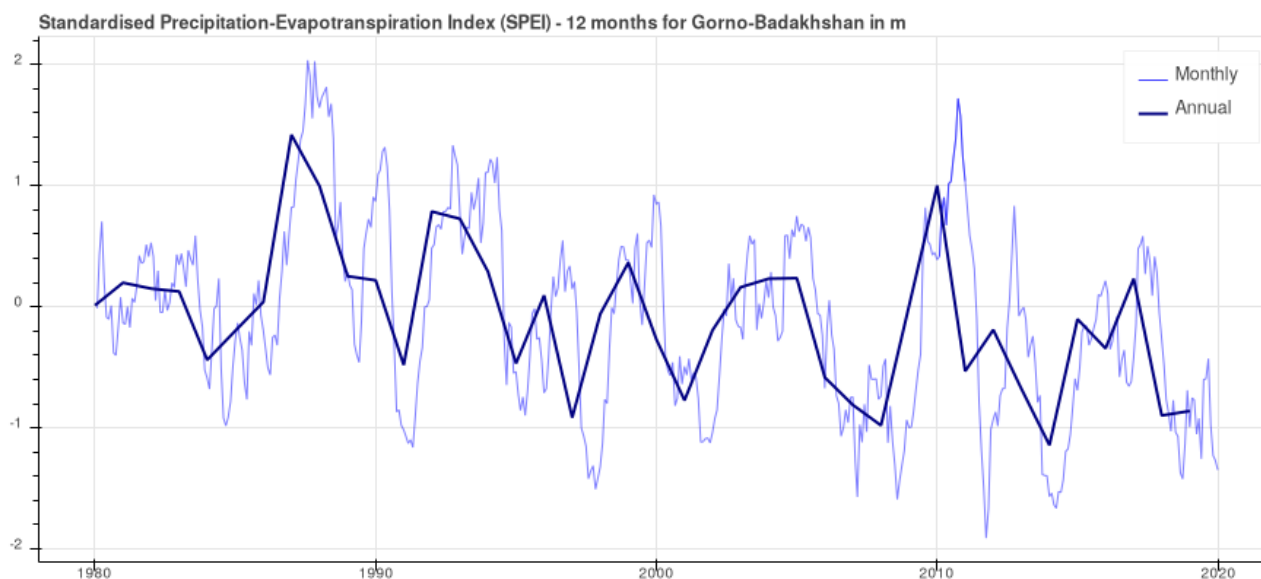
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 12-month drought index for Gorno-Badakhshan

12-month SPEI monthly and annual values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

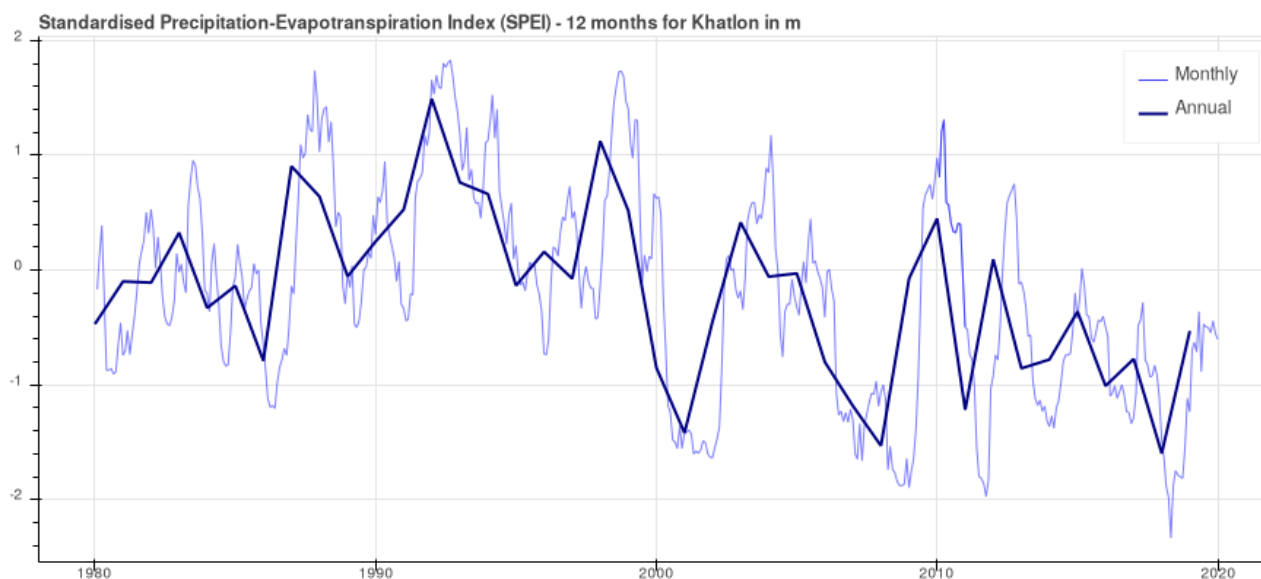
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 12-month drought index for Khatlon

12-month SPEI monthly and annual values for Khatlon



Location

Khatlon

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

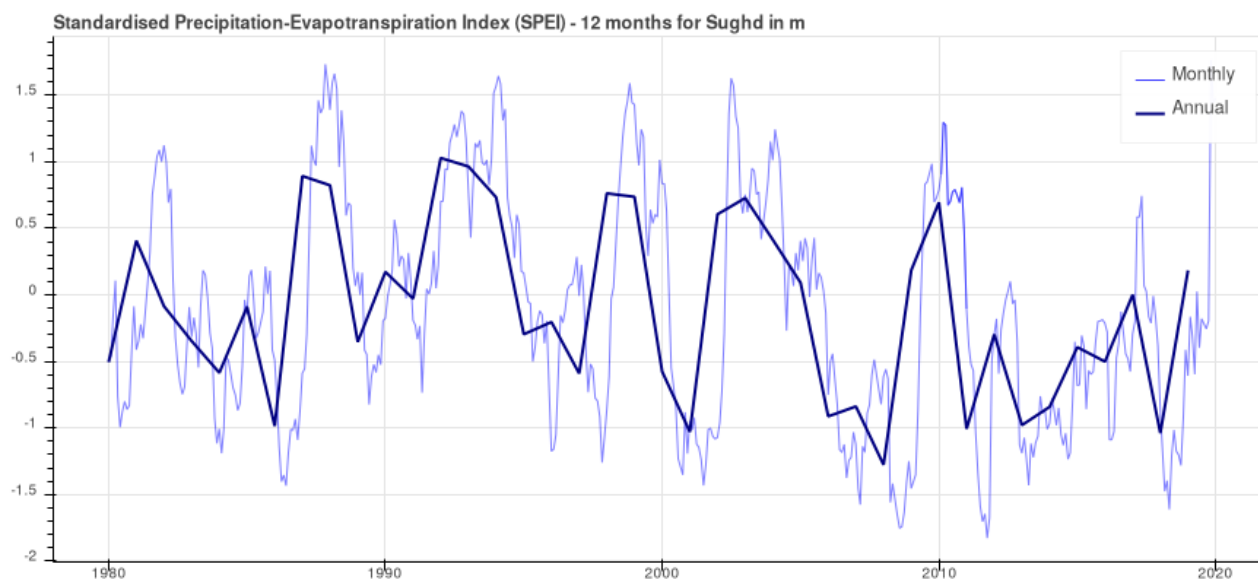
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

12-month SPEI monthly and annual values for Sughd



Location

Sughd

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

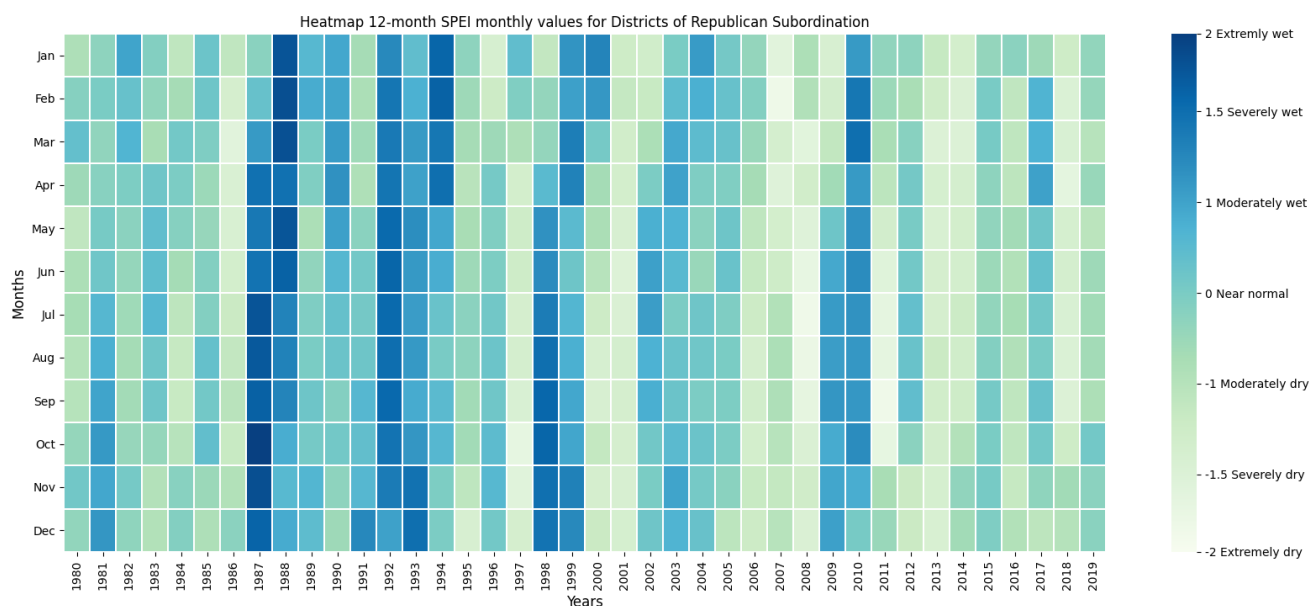
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 12-month drought index for Districts of Republican Subordination

Heatmap 12-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

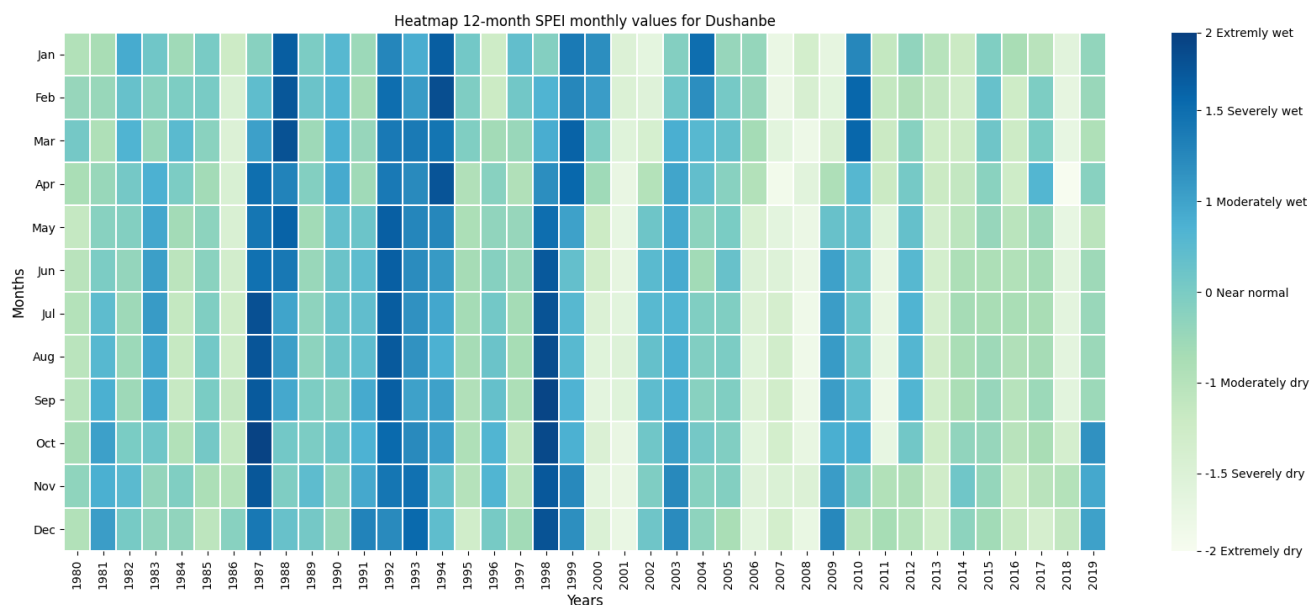
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 12-month drought index for Dushanbe

Heatmap 12-month SPEI monthly values for Dushanbe



Location

Dushanbe

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

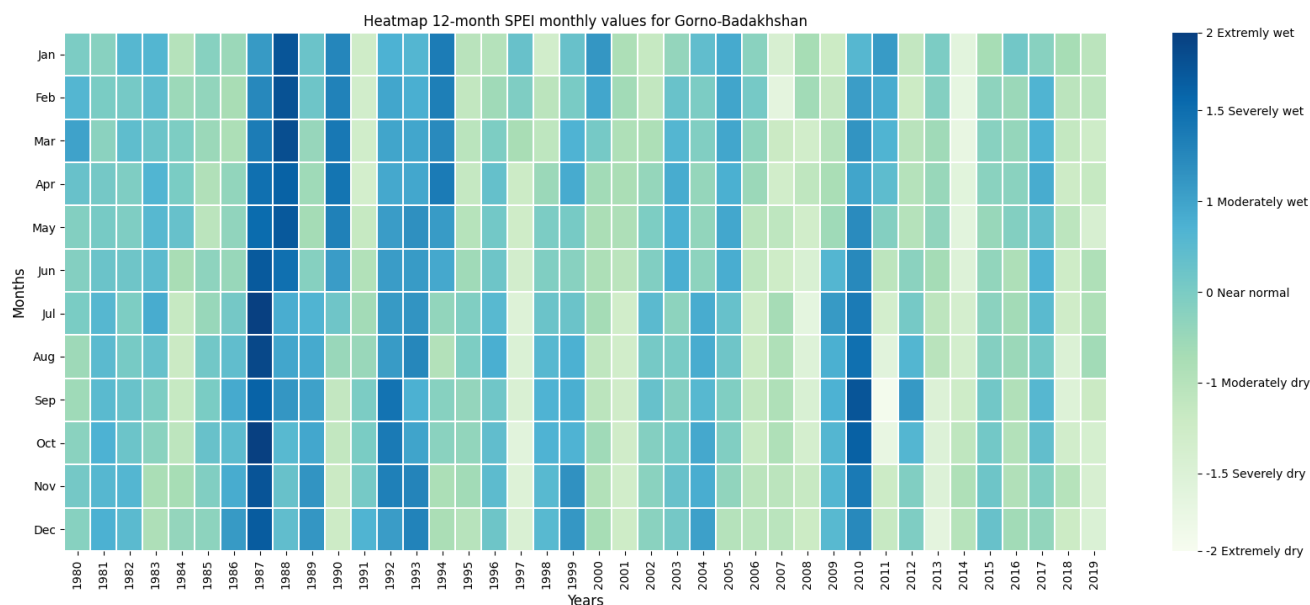
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 12-month drought index for Gorno-Badakhshan

Heatmap 12-month SPEI monthly values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

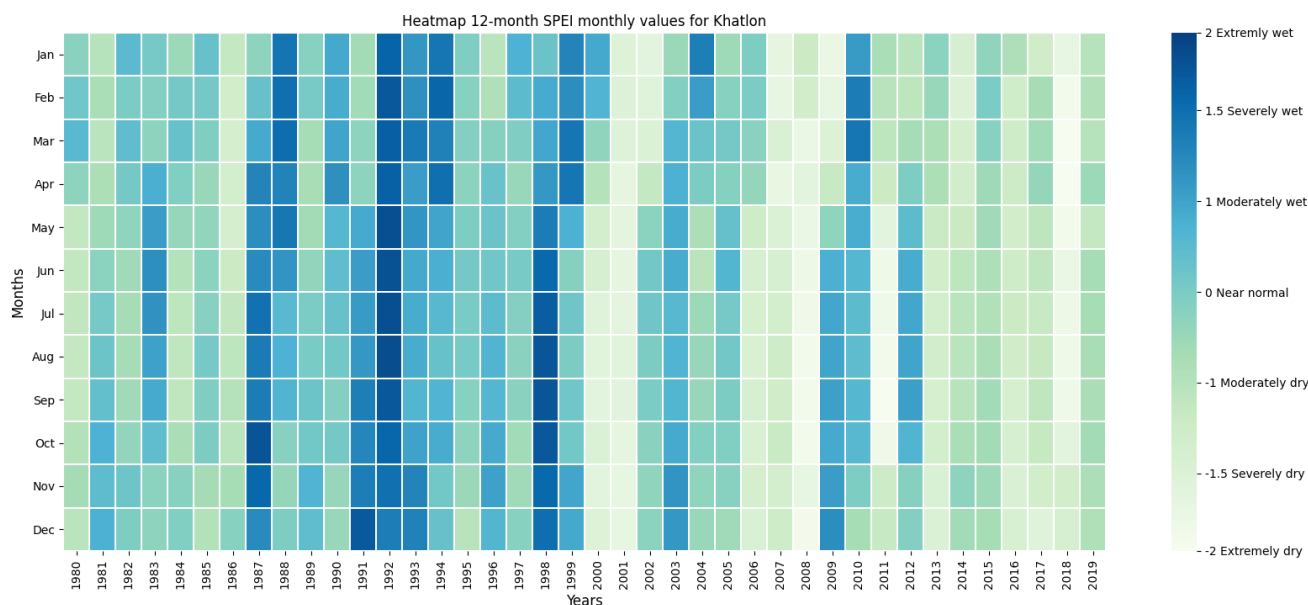
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 12-month drought index for Khatlon

Heatmap 12-month SPEI monthly values for Khatlon



Location

Khatlon

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

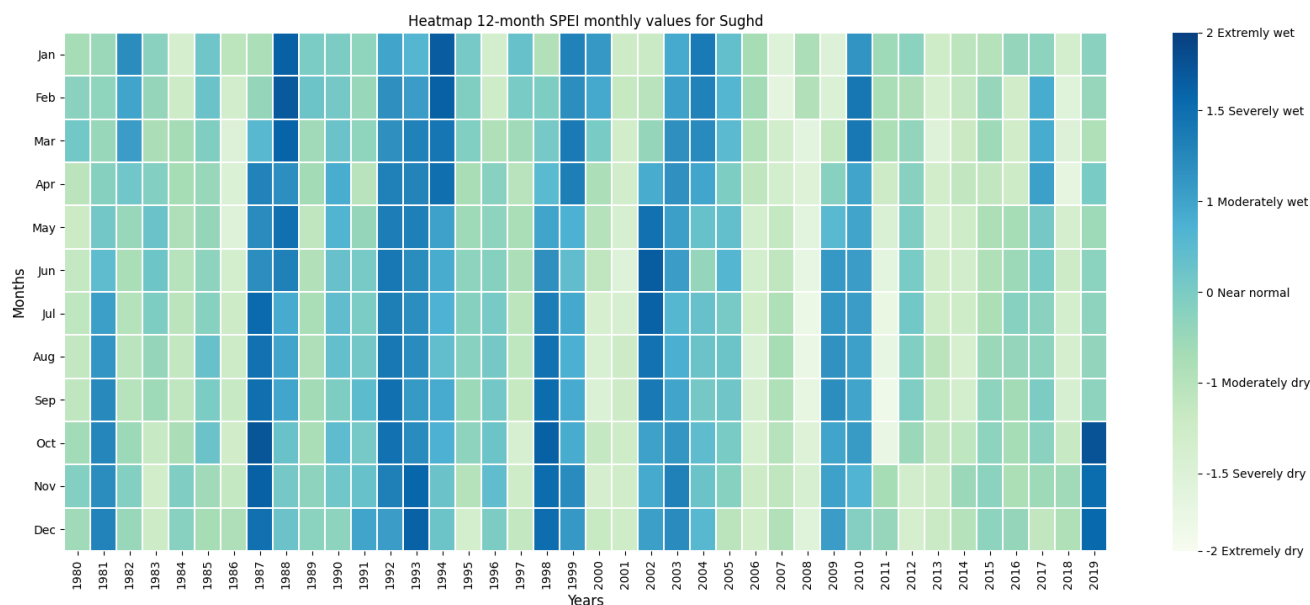
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 12-month drought index for Sughd

Heatmap 12-month SPEI monthly values for Sughd



Location

Sughd

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (12-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

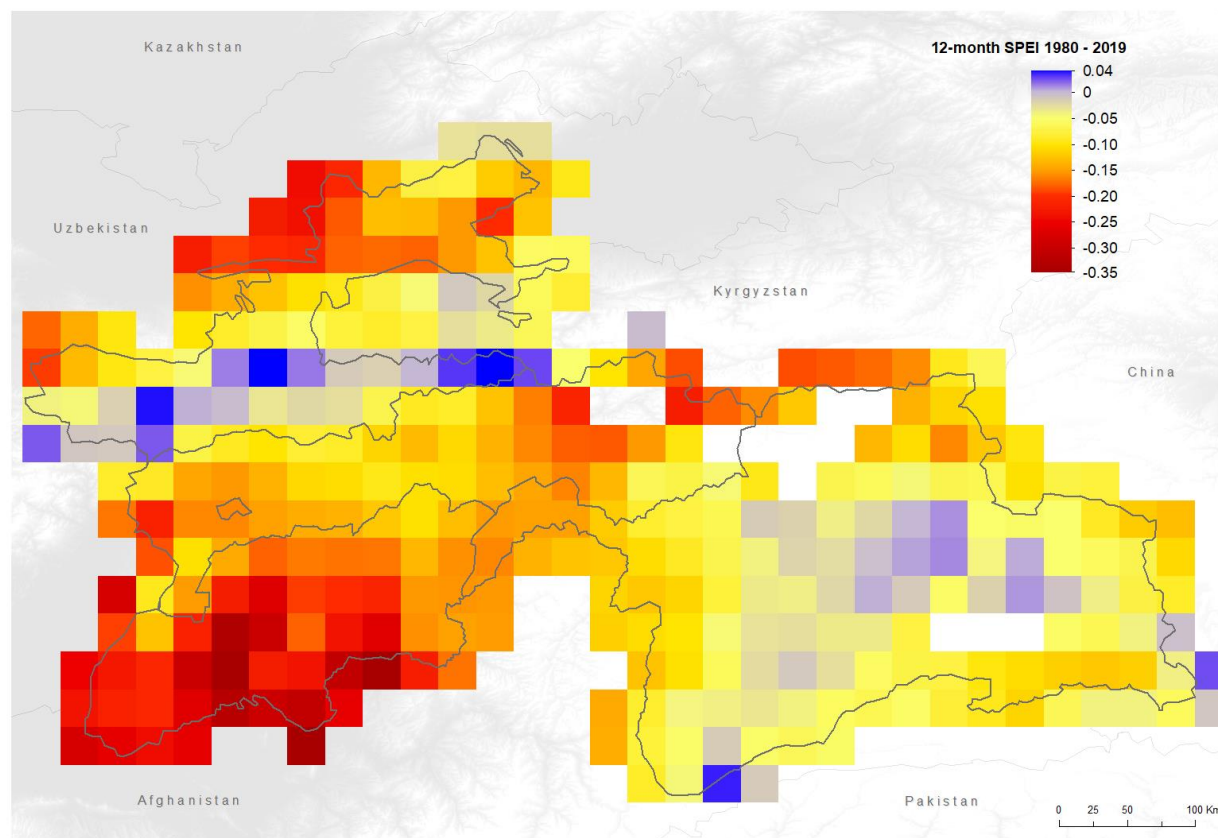
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Average 12-month SPEI



Location

Tajikistan

Description

This map shows average standardised precipitation and evapotranspiration index (SPEI) values for a 12-month accumulation during the period 1980 to 2019. This indicator can be used to indicate areas that experience the most severe water deficits (i.e. hydrological drought). As this indicator represents long-term average values, positive values do not mean that drought has not occurred during the observation period.

Patterns

About the data

Prepared by EO4SD CR cluster

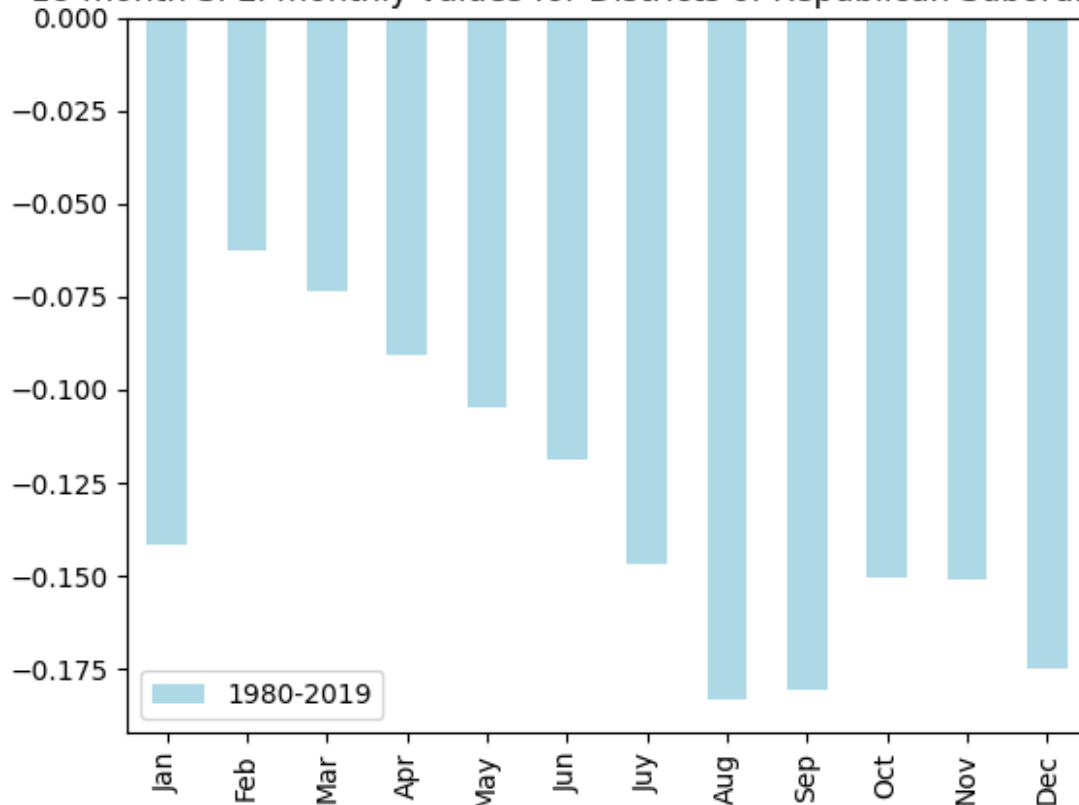
Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 18-month drought index for Districts of Republican Subordination

18-month SPEI monthly averages for Districts of Republican Subordination

18-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

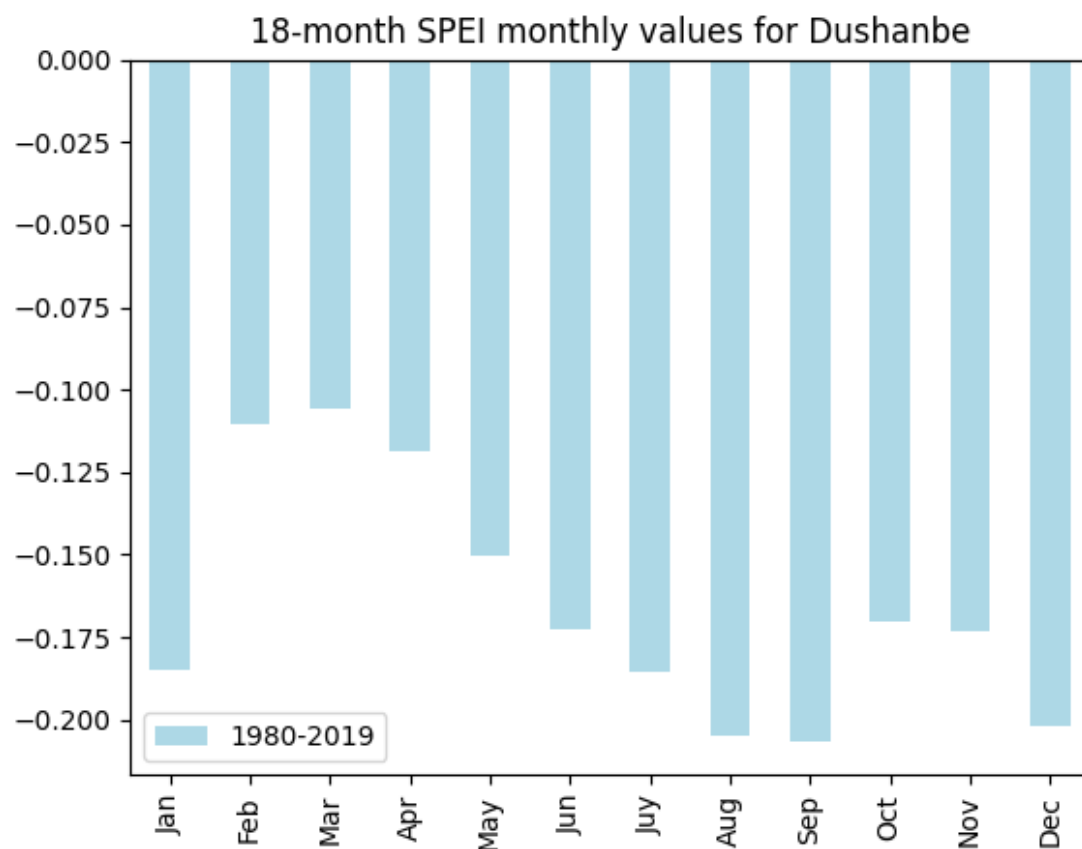
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 18-month drought index for Dushanbe

18-month SPEI monthly averages for Dushanbe



Location

Dushanbe

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

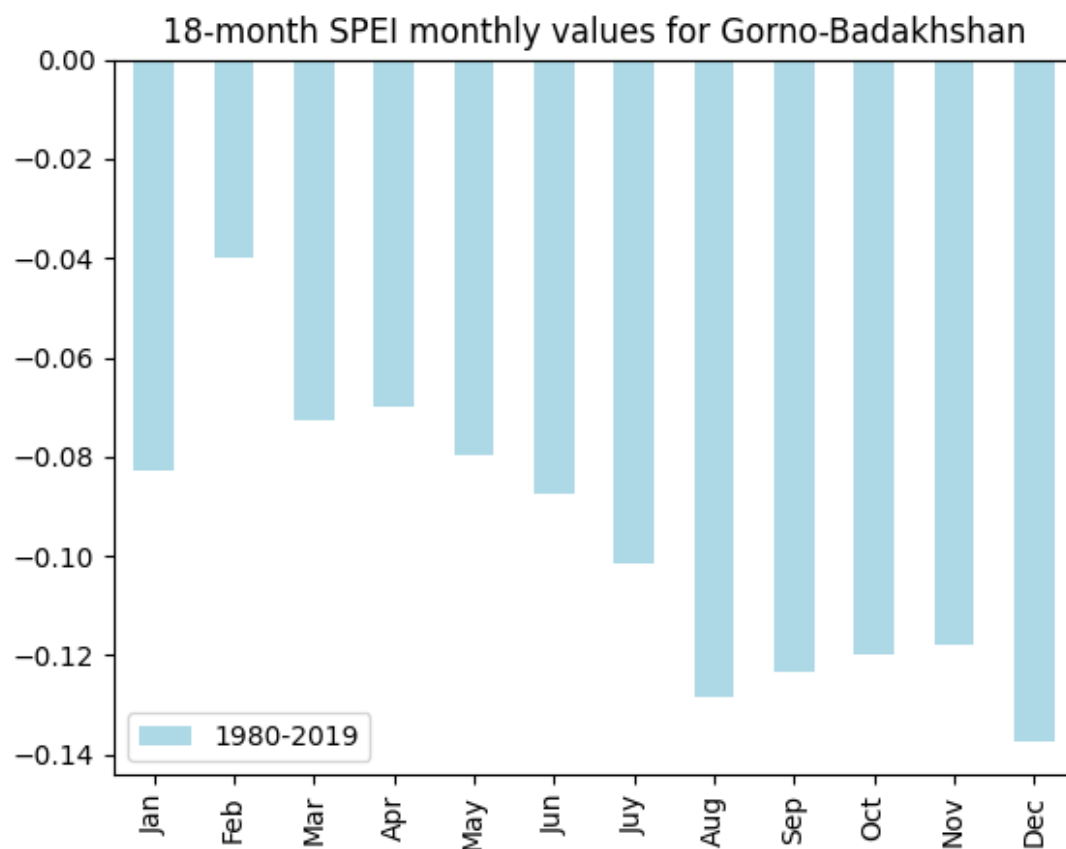
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 18-month drought index for Gorno-Badakhshan

18-month SPEI monthly averages for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

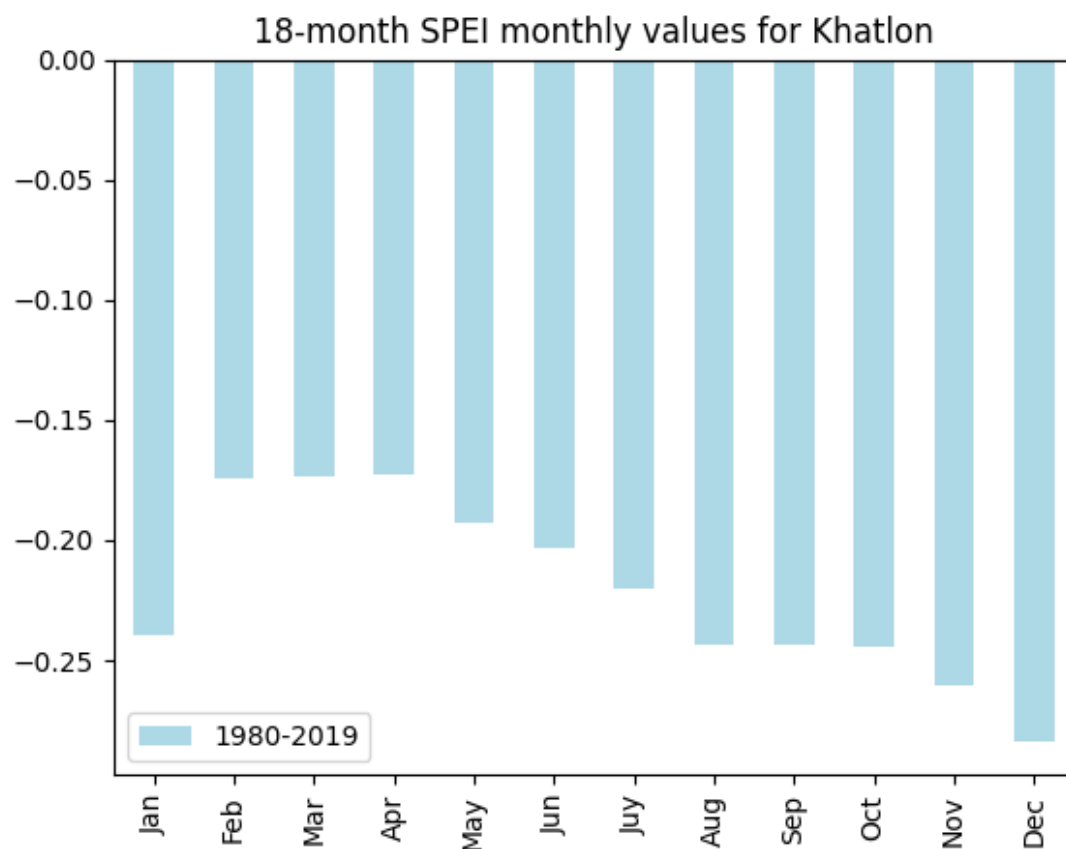
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 18-month drought index for Khatlon

18-month SPEI monthly averages for Khatlon



Location

Khatlon

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

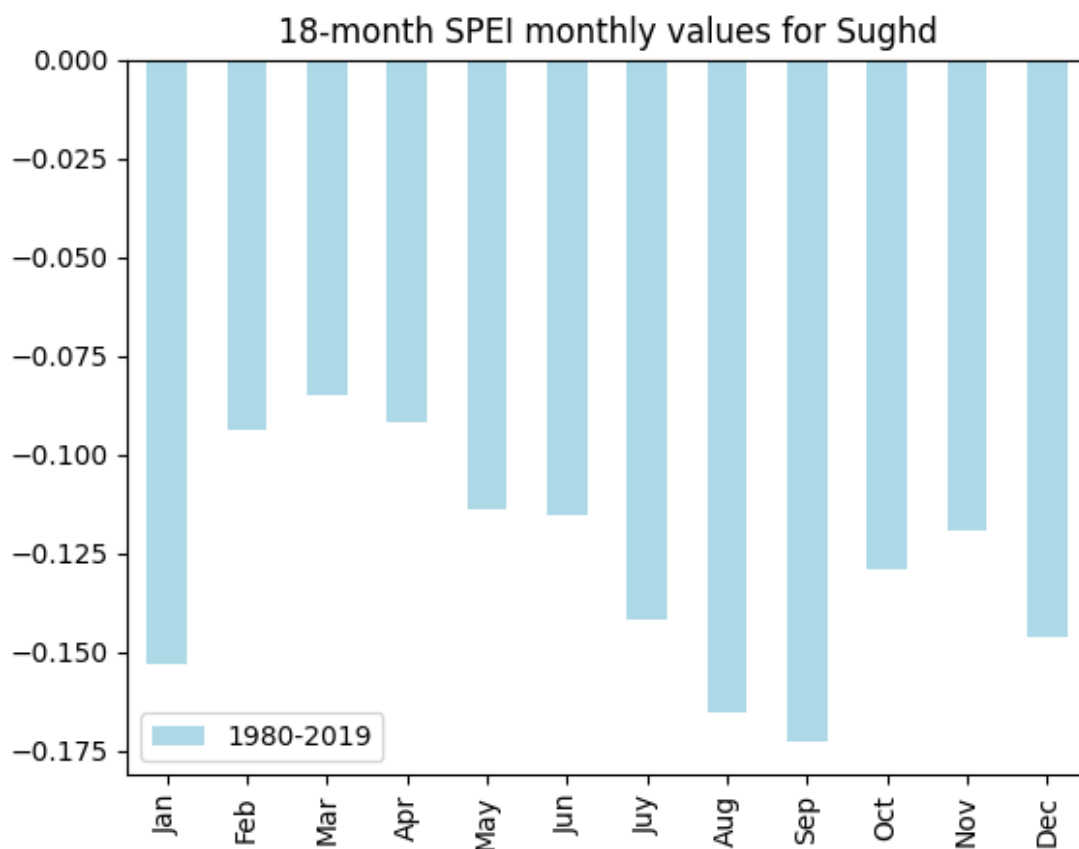
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly average 18-month drought index for Sughd

18-month SPEI monthly averages for Sughd



Location

Sughd

Description

The graph presents monthly average standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

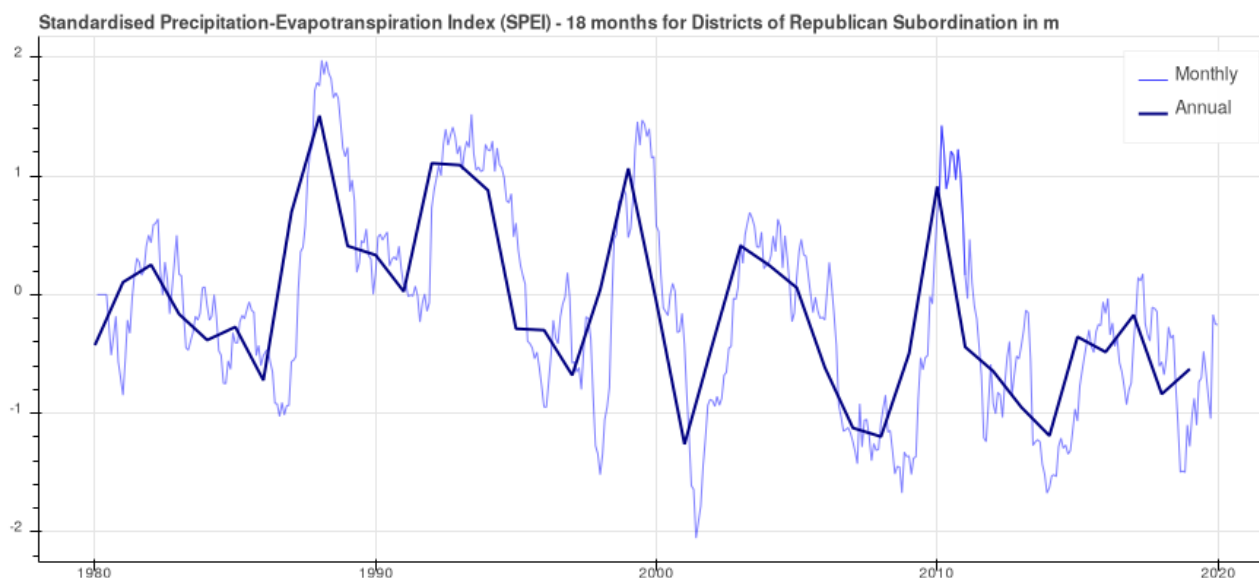
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 18-month drought index for Districts of Republican Subordination

18-month SPEI monthly and annual values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

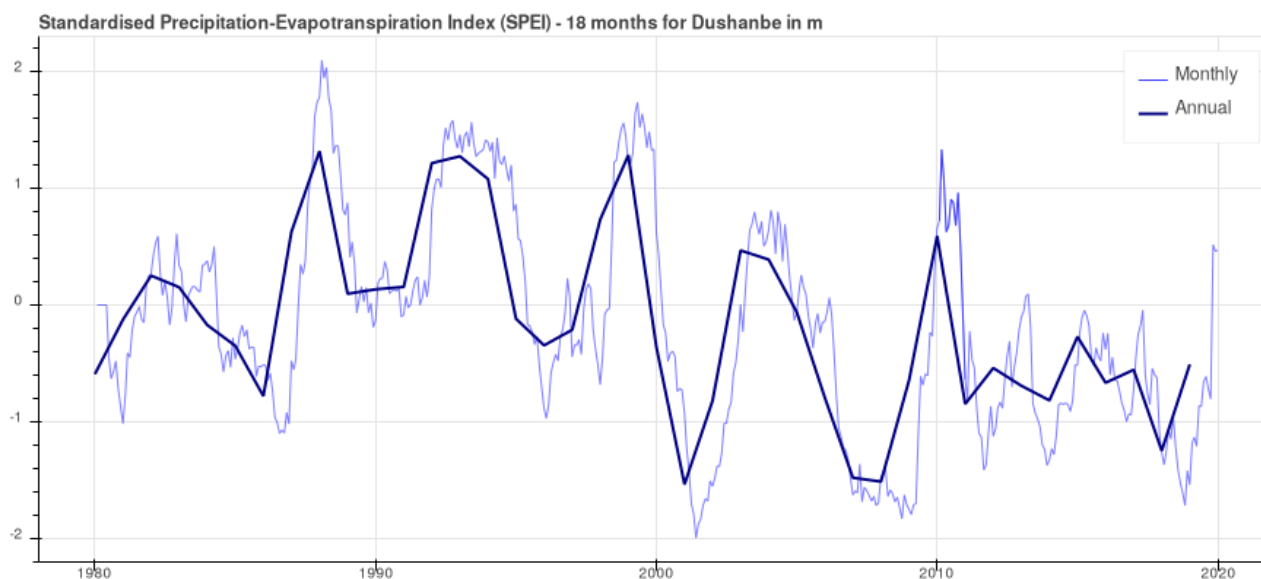
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 18-month drought index for Dushanbe

18-month SPEI monthly and annual values for Dushanbe



Location

Dushanbe

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

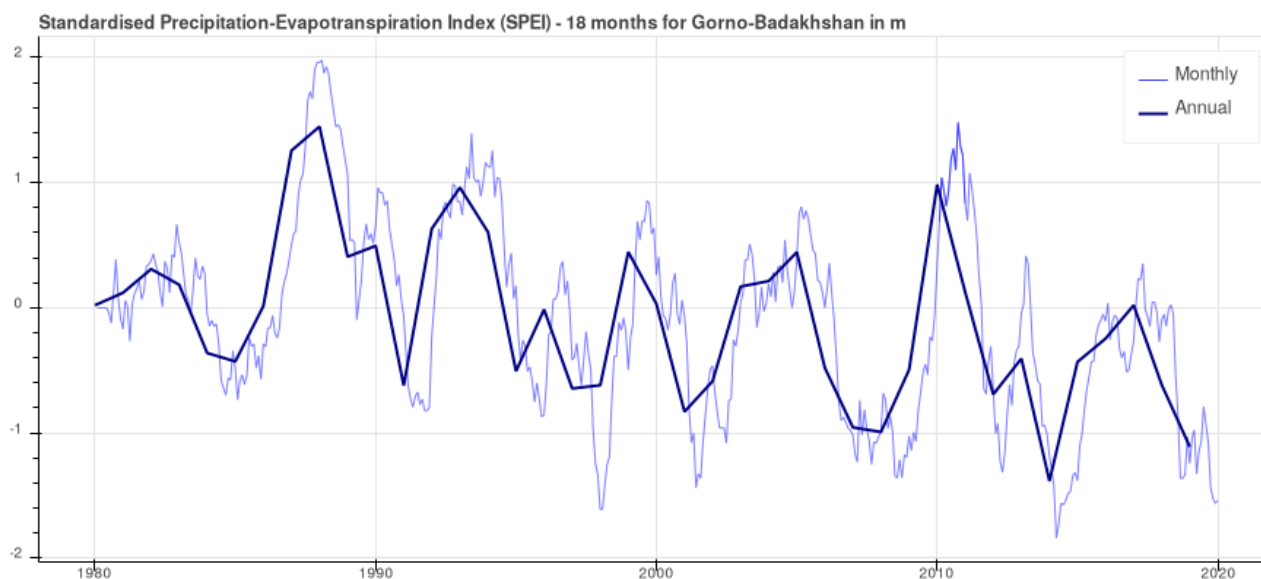
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 18-month drought index for Gorno-Badakhshan

18-month SPEI monthly and annual values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

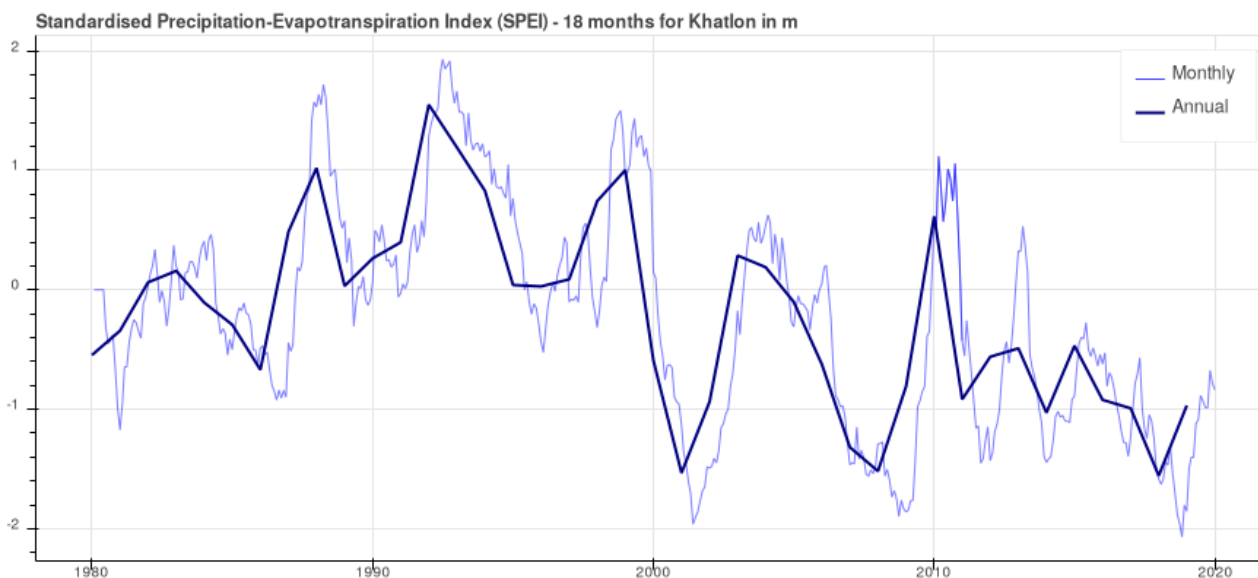
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Monthly and annual 18-month drought index for Khatlon

18-month SPEI monthly and annual values for Khatlon



Location

Khatlon

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

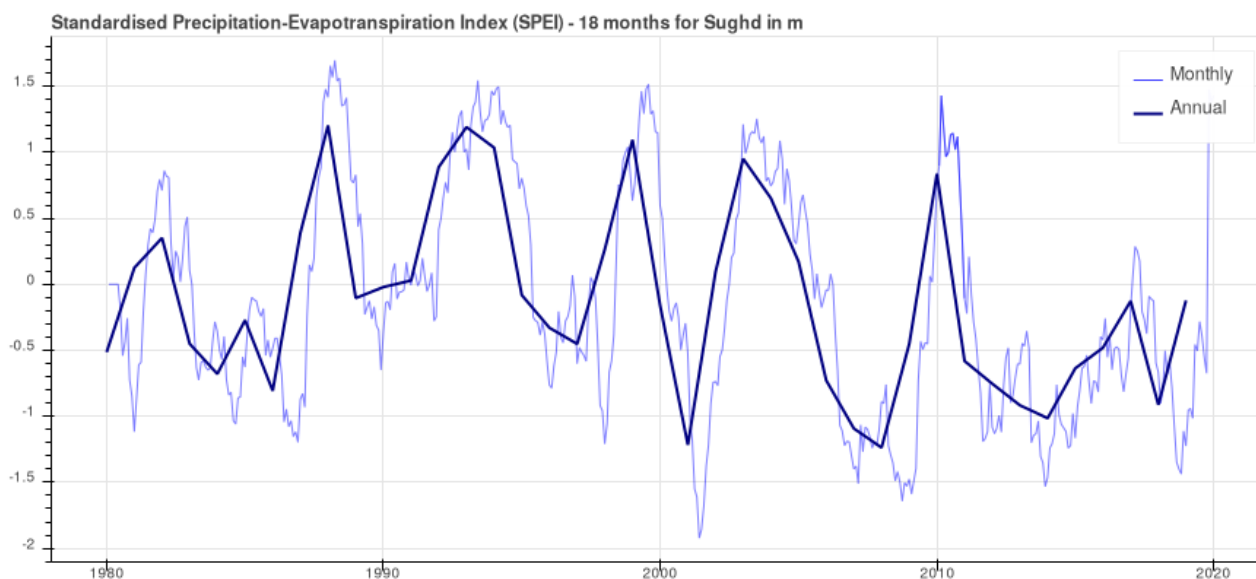
About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

18-month SPEI monthly and annual values for Sughd



Location

Sughd

Description

The graph presents the monthly and annual standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

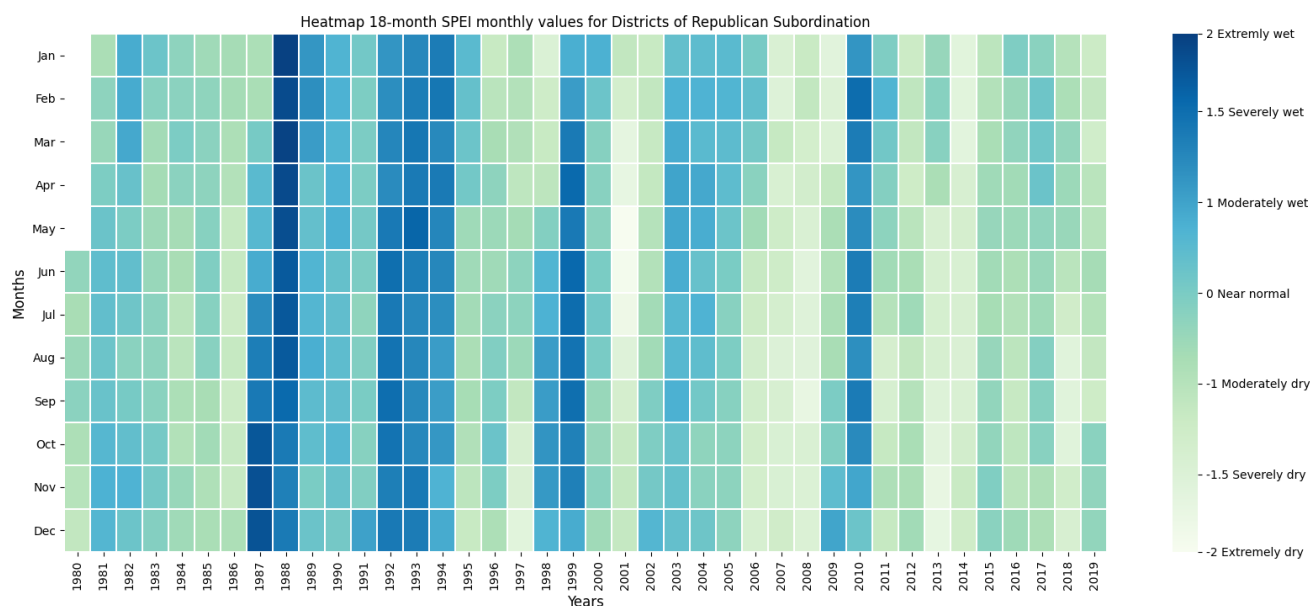
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 18-month drought index for Districts of Republican Subordination

Heatmap 18-month SPEI monthly values for Districts of Republican Subordination



Location

Districts of Republican Subordination

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Districts of Republican Subordination Oblast.

Patterns

About the data

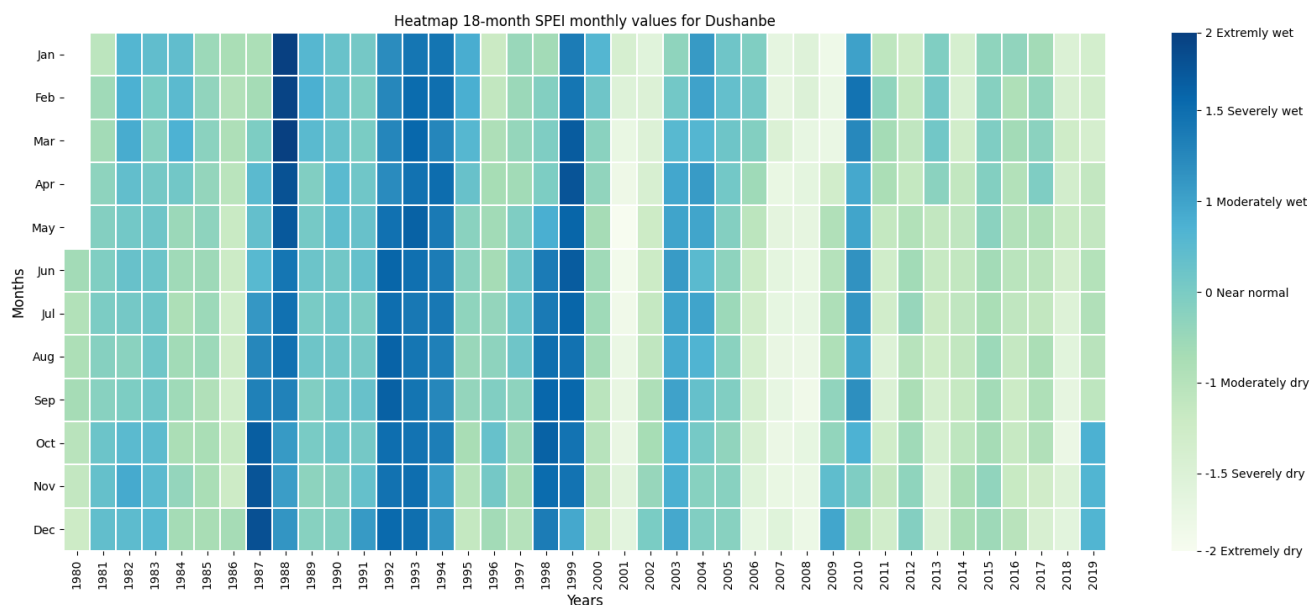
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 18-month drought index for Dushanbe

Heatmap 18-month SPEI monthly values for Dushanbe



Location

Dushanbe

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Dushanbe Oblast.

Patterns

About the data

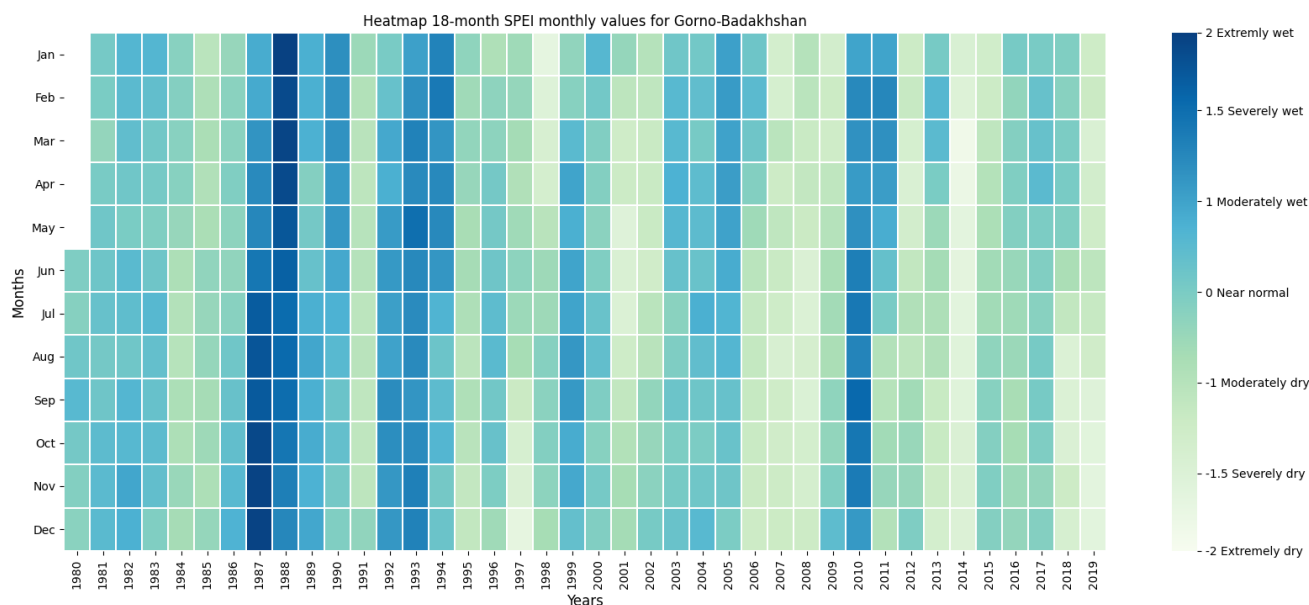
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 18-month drought index for Gorno-Badakhshan

Heatmap 18-month SPEI monthly values for Gorno-Badakhshan



Location

Gorno-Badakhshan

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Gorno-Badakhshan Oblast.

Patterns

About the data

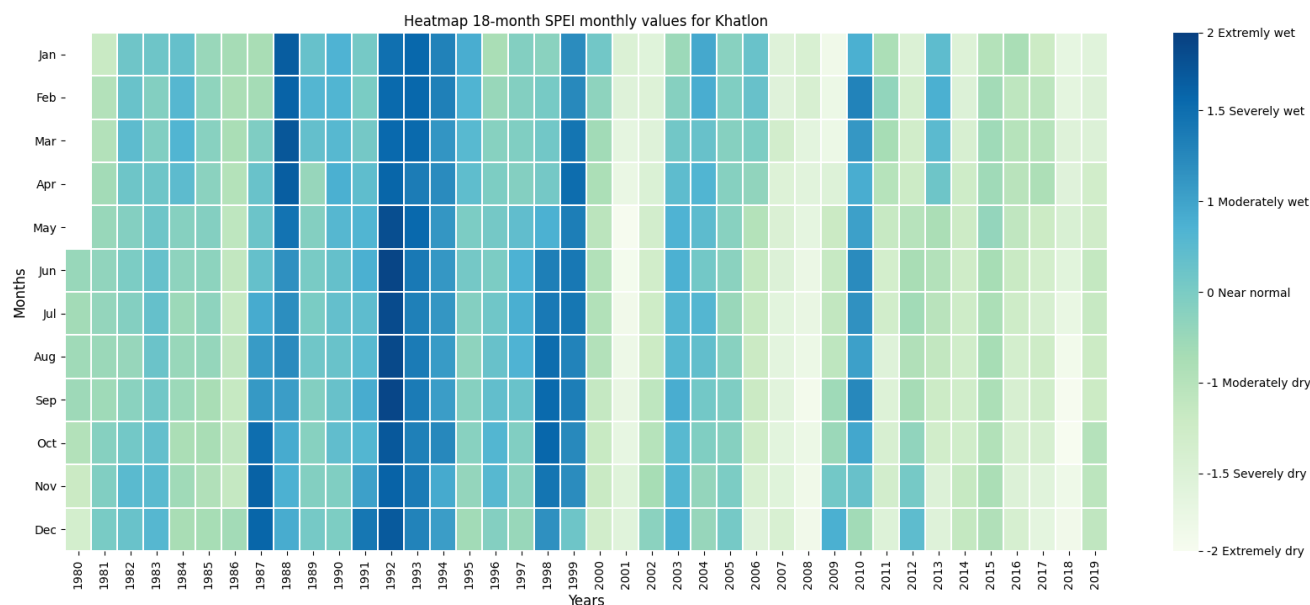
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 18-month drought index for Khatlon

Heatmap 18-month SPEI monthly values for Khatlon



Location

Khatlon

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Khatlon Oblast.

Patterns

About the data

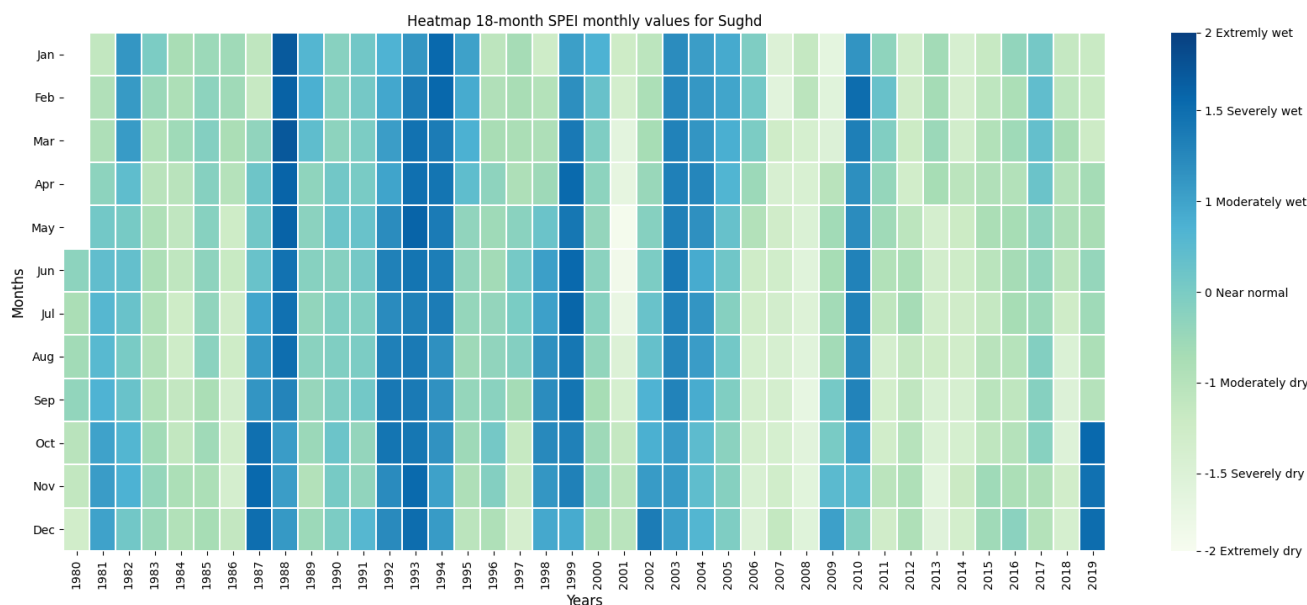
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Heatmap 18-month drought index for Sughd

Heatmap 18-month SPEI monthly values for Sughd



Location

Sughd

Description

The heatmap shows monthly mean standardized precipitation evapotranspiration index (SPEI) values (18-month accumulation period) for the period 1980 to 2019 in Sughd Oblast.

Patterns

About the data

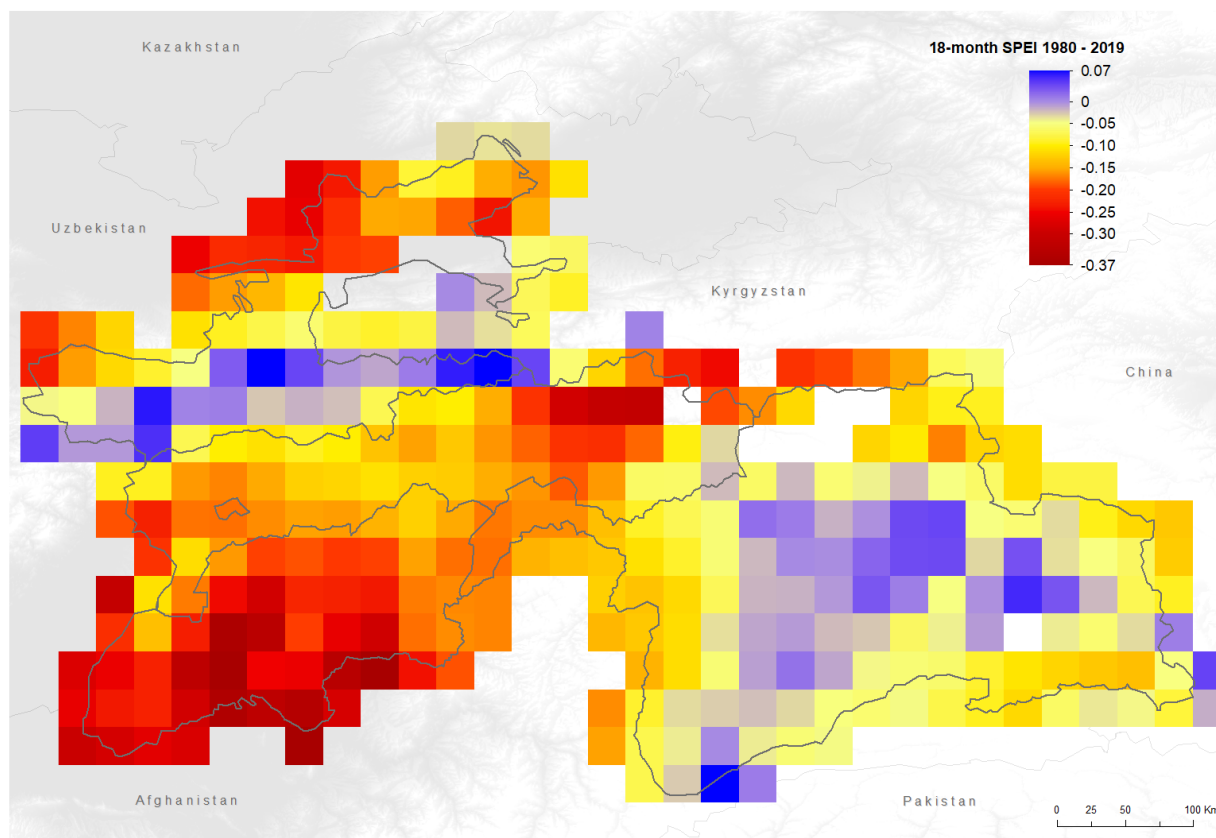
Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)

Climate Data Summary: Average 18-month drought index

Average 18-month SPEI



Location

Tajikistan

Description

This map shows average standardised precipitation and evapotranspiration index (SPEI) values for an 18-month accumulation during the period 1980 to 2019. This indicator can be used to indicate areas that experience the most severe water deficits (i.e. hydrological drought). As this indicator represents long-term average values, positive values do not mean that drought has not occurred during the observation period.

Patterns

About the data

Prepared by EO4SD CR cluster

Inputs:

[Copernicus Climate Change Service ERA5 reanalysis](#)



Annex 1: Data interpretation guidance

Plot type	Interpretation
Monthly and annual time series	<p>This plot shows monthly and annual values since 1986. Use this plot to understand the change in the range of parameter values over time and, as well as in the frequency and magnitude of extremes.</p> <p>The data presented for each parameter are summarised below:</p> <ul style="list-style-type: none"> • Soil moisture: monthly (mean), annual (mean) • Standardised precipitation evapotranspiration index: monthly (mean), annual (mean) • 1-day maximum rainfall: monthly (max), annual (max) • 5-day accumulated rainfall: monthly (max), annual (max) • Normalised Difference Vegetation Index: monthly (mean), annual (mean) • Daily minimum temperature: monthly (min), annual (min) • Daily maximum temperature: monthly (max), annual (max) • Daily mean temperature: monthly (mean), annual (mean) • No. frost days: annual (sum)
Monthly average (reference period and most recent decade)	<p>This plot shows monthly average values for the reference period (1986 – 2005) and current decade (2010 – 2019). Use this plot to understand recent monthly average values and compare with the reference period.</p>
Gridded maps	<p>Maps show average values for (a.) a reference period (e.g. 1986 – 2005, 2001 – 2005), (b.) the most recent decade (2010 – 2019, 2015 – 2019), and (c.) the anomaly of the most recent decade to the reference period. Use maps to understand spatial patterns in parameter values, and reference against other data and information such as elevation or human population density.</p>
Heatmap (Standardised Precipitation Evapotranspiration Index (SPEI))	<p>The heatmap shows monthly SPEI values since 1990 for a range of accumulation periods (e.g. 6-month, 9-month, 12-month, 18-month). Negative SPEI values over longer accumulation periods are suggestive of more severe drought conditions (e.g. hydrological drought). Use this heatmap gain a rapid insight into patterns and trends related to drought severity, frequency, and duration.</p> <p>SPEI classification:</p> <p>-2 to -1.5 = Extremely dry</p>



Plot type

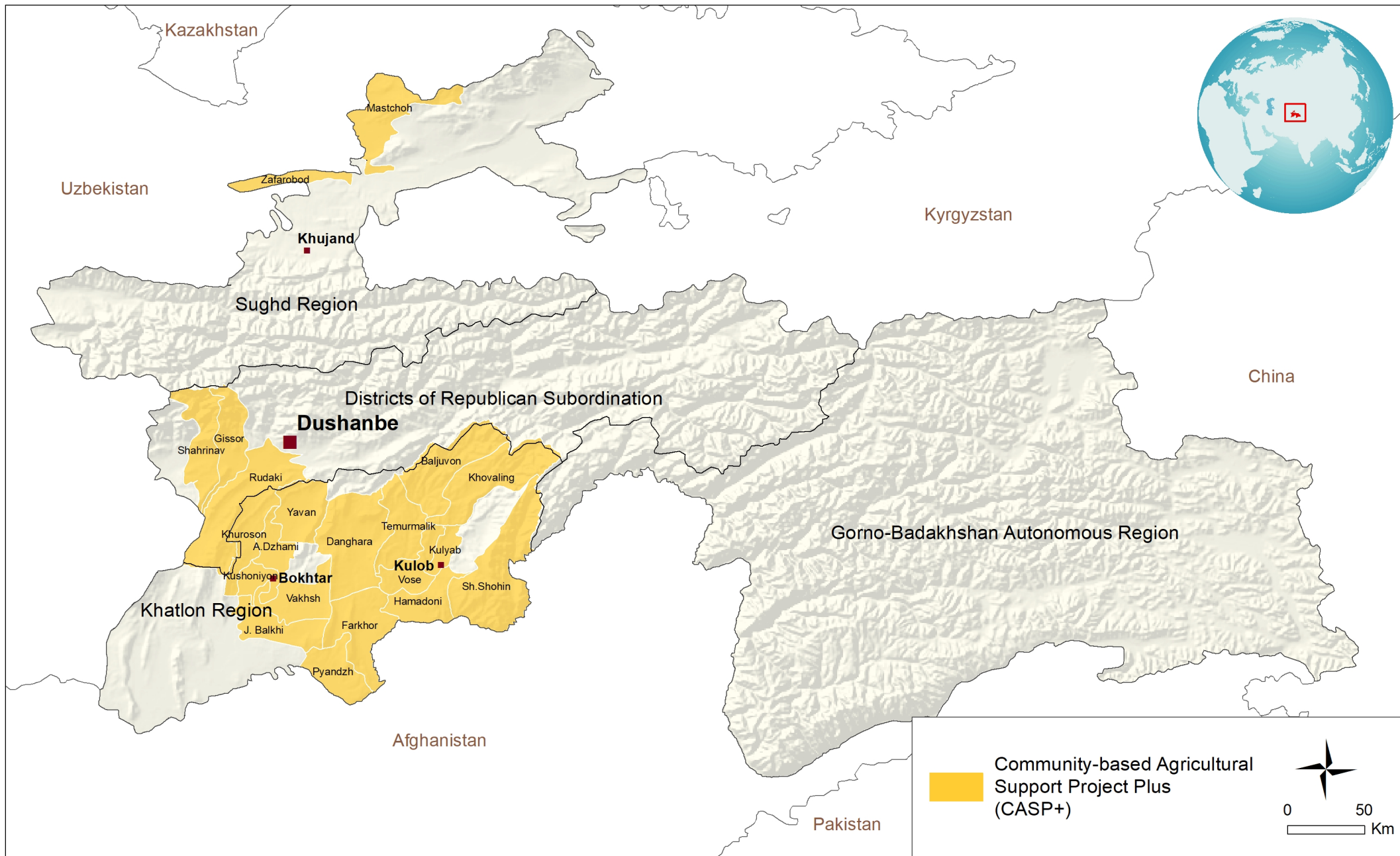
Interpretation

-1.5 to -1.0 = Severely dry
-1.0 to 0 = Moderately dry
0 to 1.0 = Moderately wet
1.0 to 1.5 = Severely wet
1.5 to 2.0 = Extremely wet

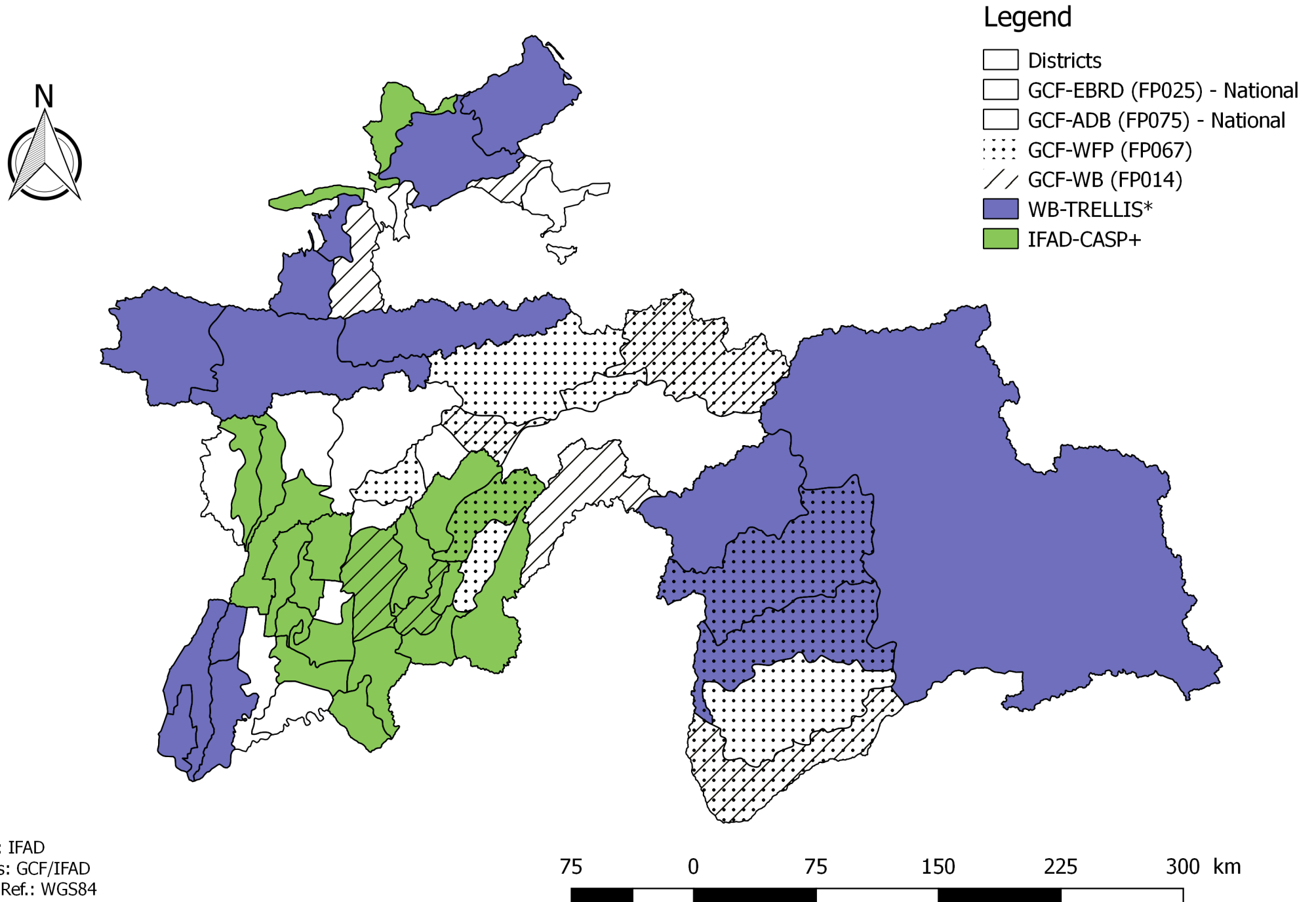


Annex 2: Map codes for Tajikistan districts

Code	District	Code	District	Code	District
1	Dushanbe city	23	Devashtich district	45	Qumsangir District
2	Vahdat city	24	Zafarobod District	46	Hamadoni District
3	Roghun District	25	B.Gafurov district	47	Muminobod District
4	Tursunzoda District	26	Jabbor Rasulov District	48	Farkhor District
5	Hisor District	27	Kuhistoni Mastchoh District	49	Panj District
6	Varzob District	28	Mastchoh District	50	Temurmaliq District
7	Lakhsh District	29	Spitamen District	51	Khovaling District
8	Nurobod District	30	Shahriston District	52	A.Dzhami District
9	Rasht District	31	Bokhtar city	53	Shahrtus District
10	Sangvor District	32	Kulob city	54	Shamsiddin Shohin District
11	Tojikobod District	33	Norak city	55	Yovon District
12	Faizobod District	34	Levakand District	56	Khorog city
13	Sharinav District	35	Baljuvon District	57	Vanj District
14	Khujand city	36	N.Khusrav District	58	Darvoz District
15	Isfara District	37	Kushoniyon District	59	Ishkoshim District
16	Konibodom District	38	Vakhsh District	60	Murghob District
17	Panjakent District	39	Vose' District	61	Roshtqal'a District
18	Istaravshan District	40	Khuroson District	62	Rushon District
19	Guliston city	41	Danghara District	63	Shughnon District
20	Buston city	42	Dusty District	64	Rudaki District
21	Ayni District	43	Qybodiyon District	65	Istiklol city
22	Asht District	44	Balkhi District	66	Isfara District, jamoat Vorukh



On-going and potential futur Green Climate Fund's projects in Tajikistan and CASP+ targeted districts



Author: IFAD

Sources: GCF/IFAD

Coord. Ref.: WGS84

*TAJIKISTAN RESILIENT LANDSCAPE RESTORATION PROJECT