

Introduction to the ClimateImpactsOnline http://climateimpactsonline.com/

Paula Romanovska

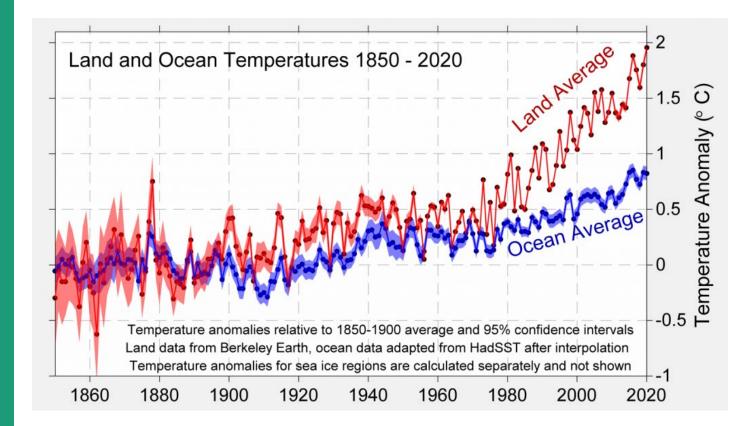




Climate Change is happening

And global warming is much faster in Central Asia than global average. Impacts can already be seen now and will be stronger in the future.

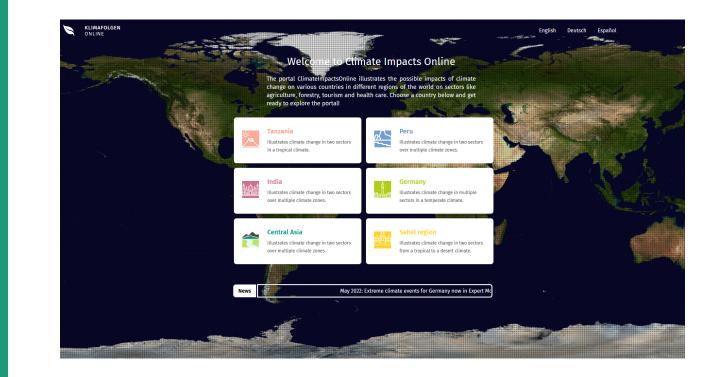
→ Adaptation needs to happen now!





ClimateImpactsOnline

The portal illustrates the possible impacts of climate change on various countries in different regions of the world on sectors like agriculture, forestry, tourism and health care.



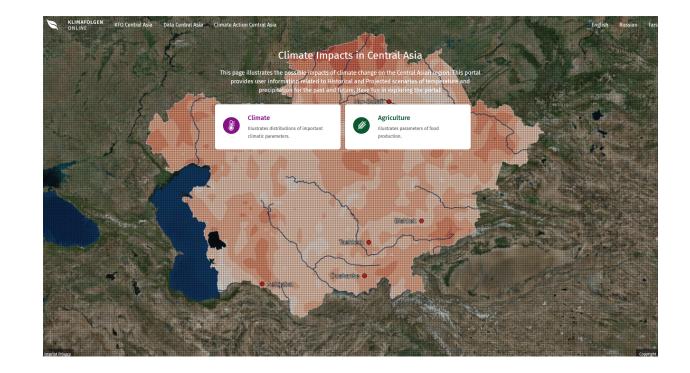


ClimateImpactsOnline Central Asia

Covers five countries:

Kazakhstan, Uzbekistan, Tajikistan, Kyrgyzstan and Turkmenistan

Two main sectors: Climate and Agriculture



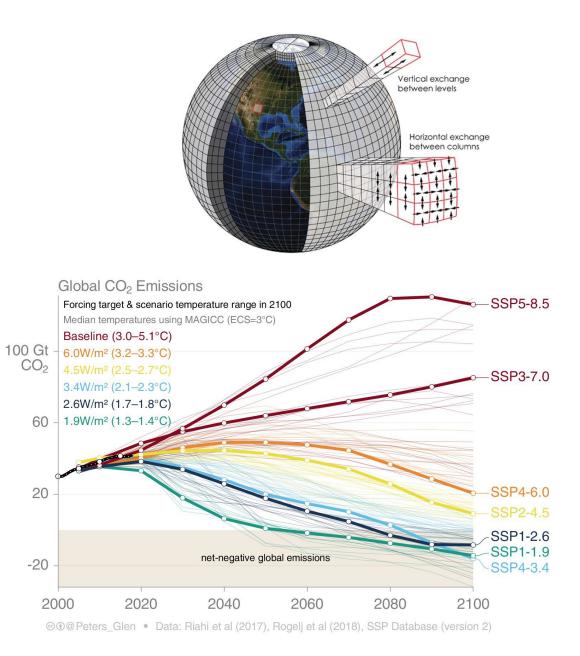
+ Water and Energy will be added soon



Background data

Results are based on ISIMIP3 data. These include state of the art climate projections from 10 CMIP6 models for 3 different emissions scenarios.

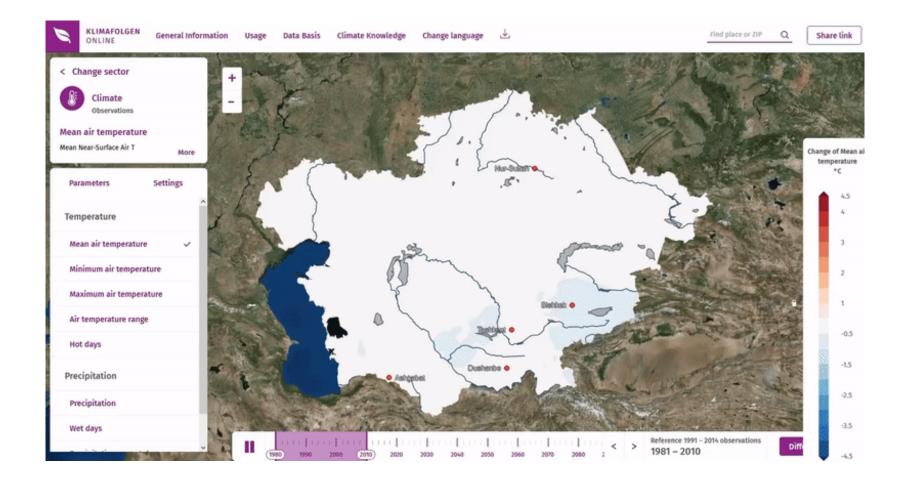
Numerous different parameters





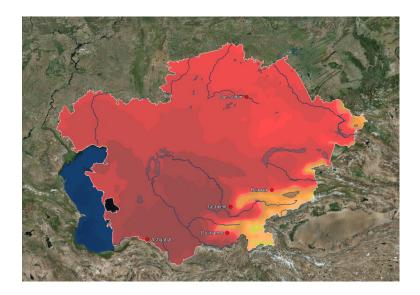
So how it looks like?

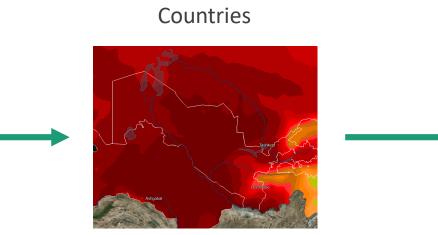
Interactive maps



Three level of disaggregation

Central Asia





Regions

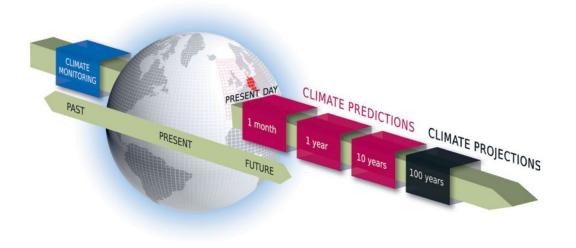


Interactive maps

Time period

Time slices 10 years / 30 years

Full time period 1980 - 2100



Seasons

- Whole year
- Winter
- Spring
- Summer
- Autumn



Main parameters

Climate:

Mean Temperature

Max Temperature

Min Temperature

Maximum Daily Near-Surface Air T Range

Precipitation

Number of hot days

Number of wet days

Agriculture:

Consecutive dry days index per year

Humidity

Solar radiation

+ Water + Energy

Data download

It's possible to download data for each region and time period in form of:

- Vector figures
- Tables
- Netcdf files

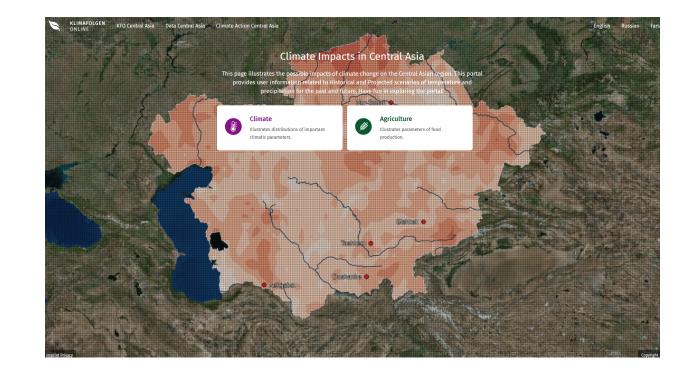
9 Central Asia ⊥ × Close 1981 - 2010 Decadal U Temperature > Mean air temperature Table Spring Parameter Year Winter Summe Fall 8.4 30.9 -15.3 19.5 80.4 8.4 -7.2 8.6 Mean Near-Surface Air T [°C] 22.8 Total Maximum Air T in year/season [°C] Total Maximum Air T in year/season [°C] Maximum Daily Near-Surface Air T Range [°C] Precipitation [mm/year] Number of hot days [d] Number of wet days [days] 37.5 -25.3 21.4 268.0 31.4 -13.3 19.9 53.0 8.4 -25.2 18.2 70.5 37.4 7.2 19.5 54.2 56.5 58.0

Whole year Uzbekistan Nez Aur Change secto lan 0 Decadal Table Daily () Climate Summer of Autumna onl Cities Rivers Water 2 Absolute Relative Expert mode Off On 1981 - 2010



ClimateImpactsOnline Central Asia

Will also cover climate change impacts soon.



+ Water and Energy

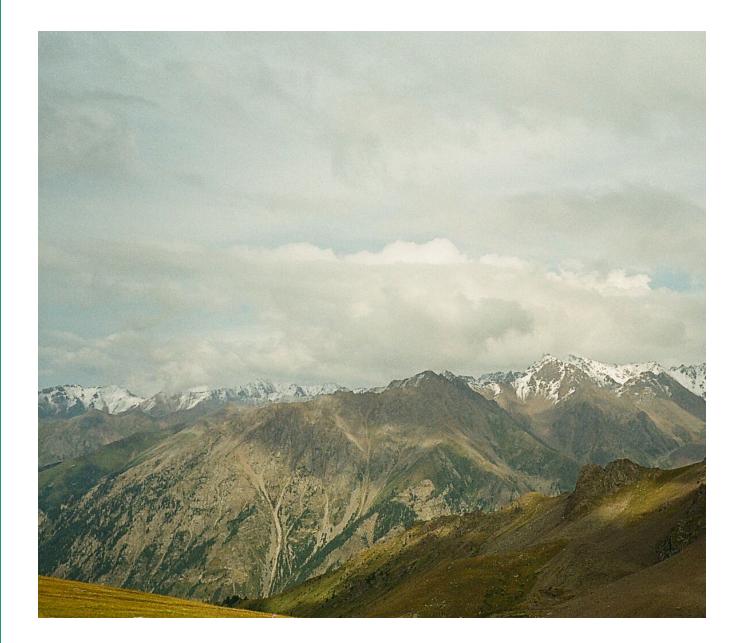
will be added soon





THANK YOU!

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