



ANALYSIS OF THE PERCEPTION OF CLIMATIC INFORMATION BY USERS OF THEMATIC WEB SYSTEMS BASED ON THE RESULTS OF THE PROJECT CLIMVISEUROPE

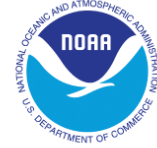


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Selected Significant Climate Anomalies and Events: September 2021



GLOBAL AVERAGE TEMPERATURE

September 2021 average global surface temperature was the fifth highest for September since global records began in 1880.

ARCTIC SEA ICE EXTENT

The September 2021 Arctic sea ice extent was 23.2% below the 1981–2010 average — the 12th-smallest September extent since satellite records began in 1979.

NORTH AMERICA

September 2021 was North America's third-warmest September on record. Only Septembers of 1998 and 2019 were warmer.

EUROPE

Although Europe's September temperature was above average, it was the coolest September since 2013.

ASIA

September 2021 was Asia's ninth-warmest September on record.

CONTIGUOUS UNITED STATES

The contiguous U.S. had its fifth-warmest September in the nation's 127-year record.



NORTHEAST UNITED STATES

Remnants of Hurricane Ida, combined with a frontal system, brought unprecedented rainfall to parts of the Northeast on September 1.

HURRICANE NICHOLAS

Nicholas made landfall in Texas on September 14. As the storm drifted over Louisiana it brought heavy rain and floods to parts of the Gulf Coast that were already saturated from Hurricane Ida.

AFRICA

This was Africa's warmest September on record, exceeding the previous record set in 2017.

TYPHOON CHANTHU

Chanthu made landfall in the northern Philippines on September 11, causing widespread damage.

BRAZIL

Drought conditions have severely impacted central and southern Brazil this year, resulting in one of the worst droughts for the nation in centuries.

SOUTH AMERICA

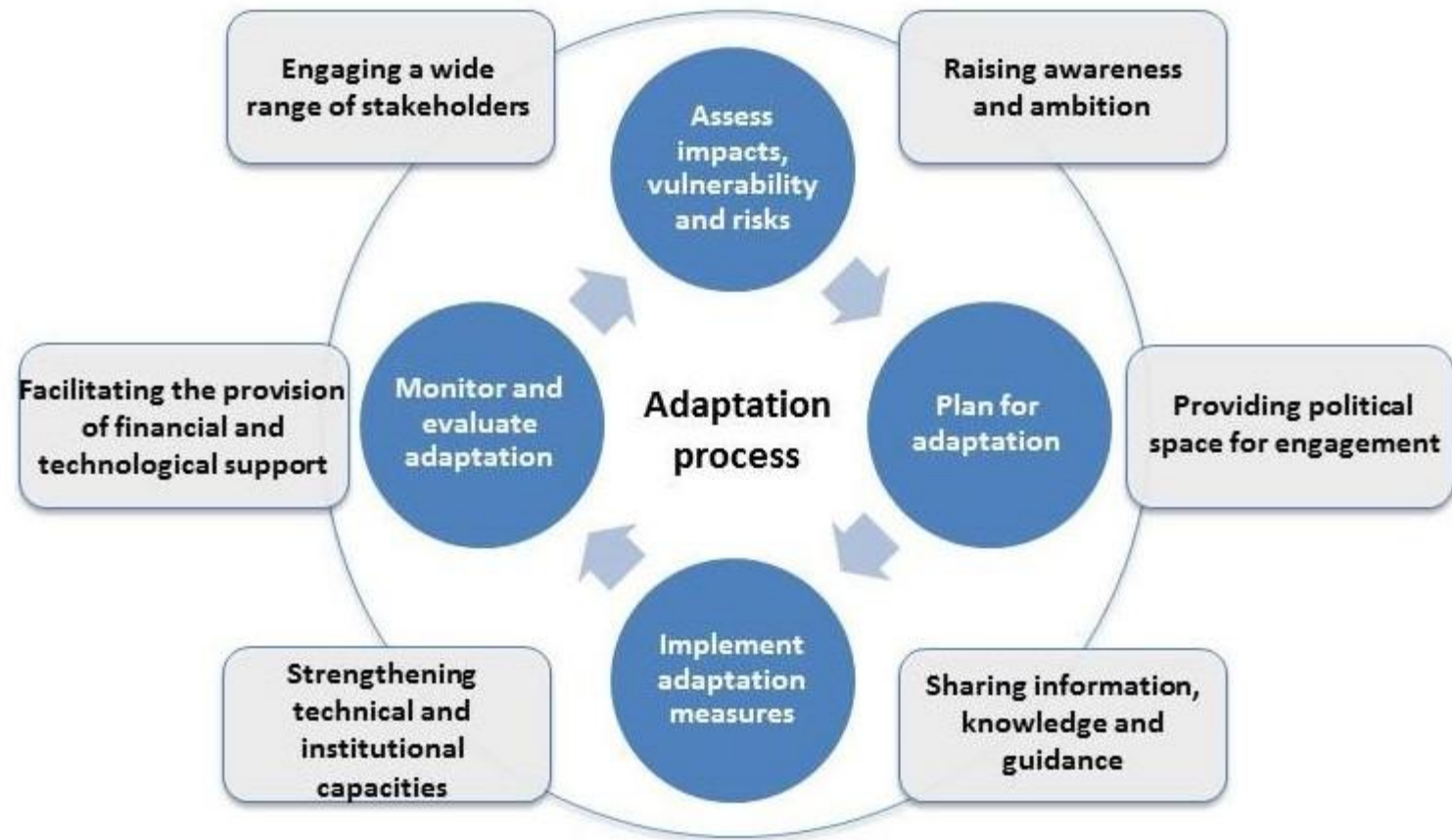
South America had its warmest September on record, surpassing the previous record that was set in 2015.

GLOBAL CYCLONE ACTIVITY

75 named storms formed from January–September — the fifth most named storms on record for the period.

ANTARCTIC SEA ICE EXTENT

The Antarctic sea ice extent for September 2021 was near average.



Successful adaptation not only depends on governments but also on the active and sustained engagement of stakeholders including national, regional, multilateral and international organizations, the public and private sectors, civil society and other relevant stakeholders, as well as effective management of knowledge. Adaptation to the impacts of climate change may be undertaken across various regions, and sectors, and at various levels.

UNFCCC

Climate Change Knowledge Portal

The Climate Change Knowledge Portal (CCKP) provides global data on historical and future climate, vulnerabilities, and impacts. Explore them via **Country** and **Watershed** views. Access synthesized **Country Profiles** to gain deeper insights into climate risks and adaptation actions. [Disclaimer](#)

COUNTRY

WATERSHED

DOWNLOAD DATA

COUNTRY PROFILES

GENERAL RESOURCES

ABOUT

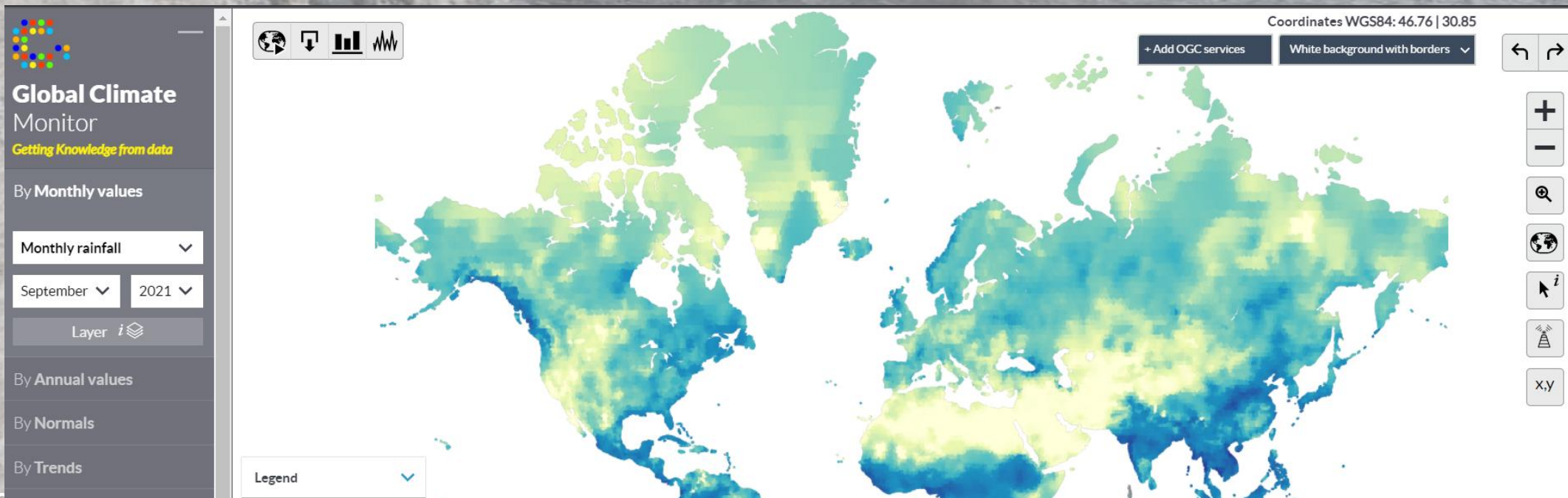
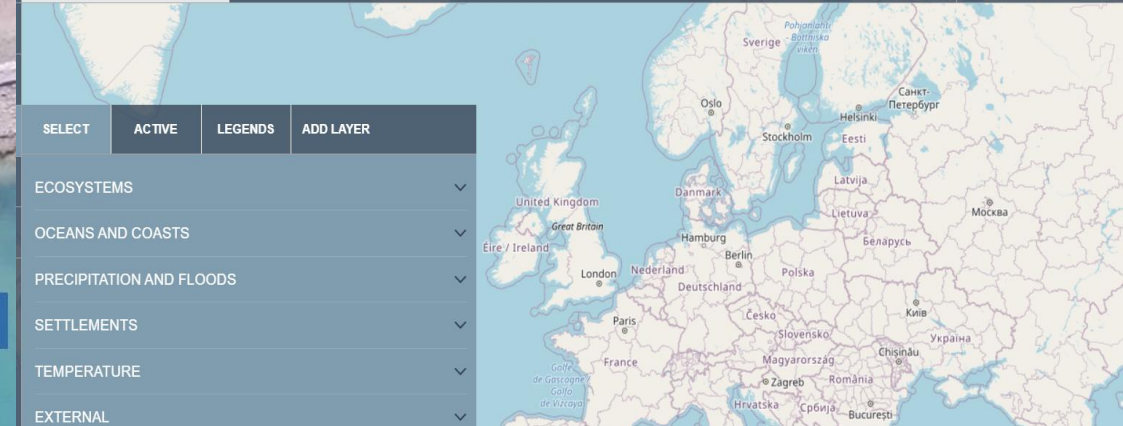
TUTORIAL

Climate Information Portal

Indicator Map Viewer

Login

Compare this map (0 / 3)



ClimVis SEED Project vision

Creating a **climate data visualisation platform for Eurasia**, which is:

- free for all users
- easily accessible
- visually appealing
- multi-lingual
- interactive
- well-explained
- reliable (quality-controlled data)
- up-to-date (automatic updates)
- low maintenance

Target groups:

Non-expert users (partly with poor or missing English skills) looking for climate information requiring historic, recent and/or future time frames. |

Survey organisation

- Survey to identify user backgrounds, needs, desires and gaps in current climate information in 6 European countries
- Main target groups:
 - decision makers of various sectors
 - people engaged in education (teachers, lecturers, trainers)
- Run from December to February 2020
- Country-specific acquirement strategies, mainly by emails distributed using institutional contact lists and via contacting umbrella organisations of potential climate data users
- Queried were user experiences and requirements of a useful web-tool providing climate information
- 10 open and 12 closed questions with provided answer possibilities
- About 350 responses; distributed by countries:
 - Germany: 50 responses
 - Estonia: 56 responses
 - Russia: 47 responses
 - Poland: 177 responses



ClimVis Europe: Questionnaire on climate data visualisation

1) In which context do you use climate information? *

	0 (No use)	1	2	3	4	5 (Strong use)
Work process and decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research and/or analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication (via reports, bulletins etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication (via newsletters, social media etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Private investigations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2) I am interested in: *

Multiple answers possible

- Past climate (previous decades to centuries)
- Present climate
- Future climate (up to end of the 21th century)

Focus-groups discussions

Purpose

- to improve the level of understanding of existing and potential climate information users' expectations of such tools. Also aim to assess their preferences related to format and visualisation style.

Format

First online meeting (90min)

Email with links – 4 existing platforms and questionnaires

Second online meeting (120min)

Follow-up email summarizing main findings

Two groups of key stakeholders: decision makers and educators/trainers.

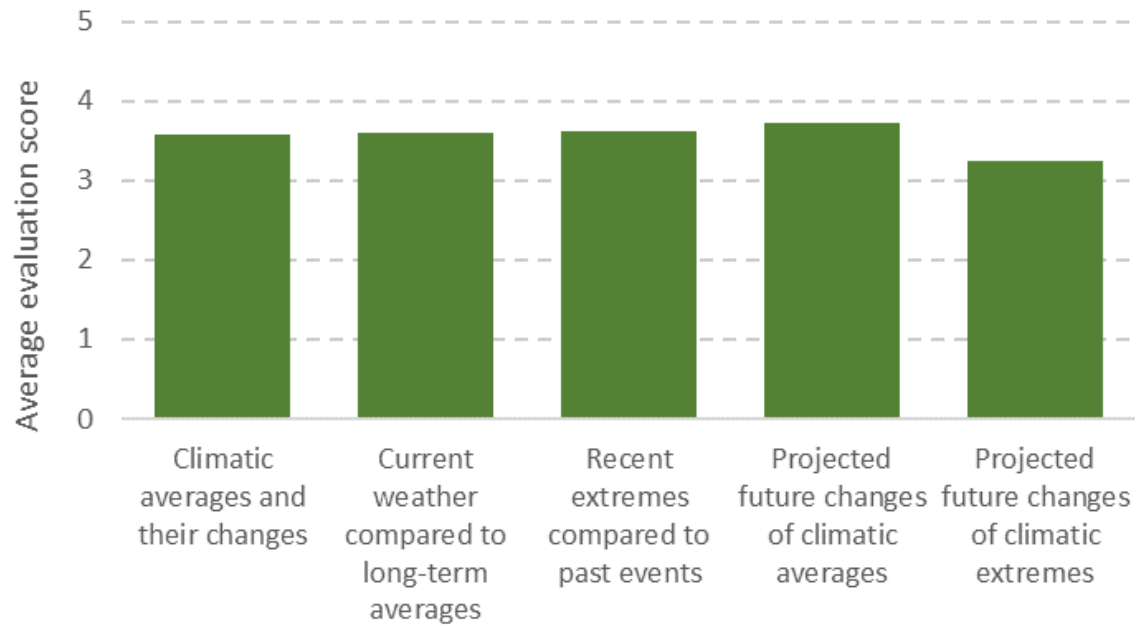
Questionary

- Which aspects of the webtools were most easy to get familiar with?
- Please name and describe the aspects you found most valuable or innovative in the tested webtools.
- Please name and describe the aspects you found most discouraging or hard to understand in the tested webtools.
- Which additional climate information would you like to get access to, which were not provided in the tested webtools?
- What is your position: should a webtool be understandable (intuitive) without specific training? Or would you invest time into a training if you deem the tool valuable for you?
- How important is the traceability of data quality for you? How do you assess this aspect for the tested webtools?
- Which spatial and temporal data resolution do you require for your work?
- Are you interested in using near-term climate forecasts? If yes, in which of the following time frames:
 - Long-term weather forecasts (10 days to 30 days from now)
 - Seasonal to annual outlooks (a few months up to 1-2 years)
 - Decadal outlooks (a few years up to 10-20 years)
- For decision makers: Would it be relevant for your work to put current weather events and extremes (e.g. heat, cold, heavy precipitation, drought) into a long-term climate perspective of e.g., 100-200 years? (using past, present and future data)?
- For lecturers/trainers: Would it help in communicating climate aspects to your students or trainees, if you could show how current weather events and extremes they experience (e.g. heat, cold, heavy precipitation, drought) rank in a long-term climate perspective of e.g., 100-200 years? (using past, present and future data)?

Analysis of results

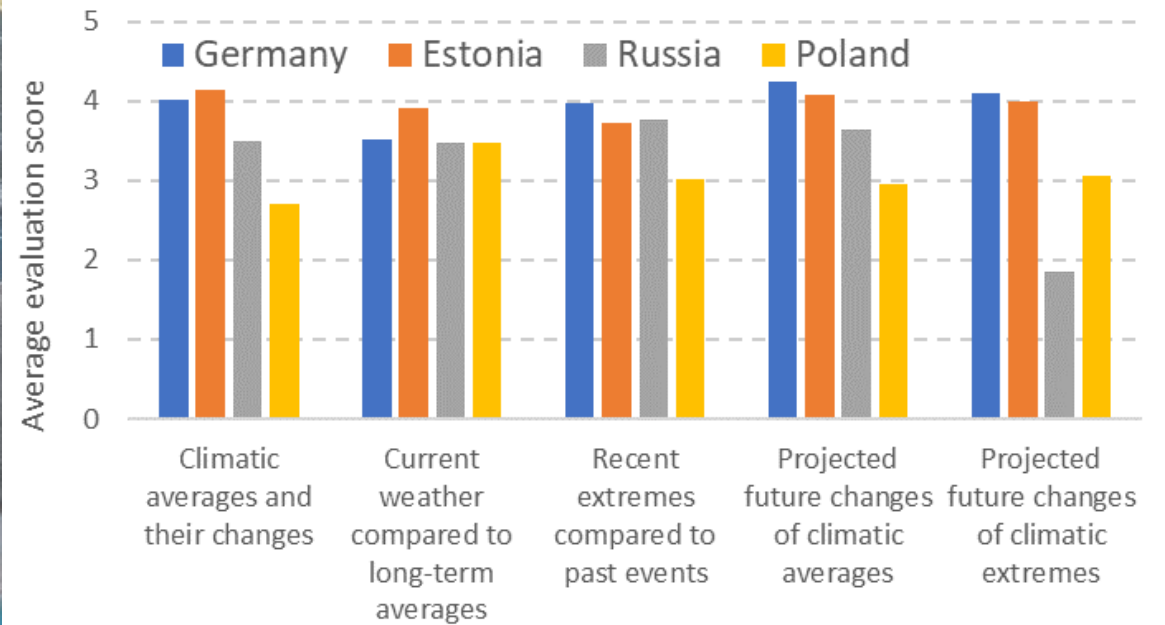
Which climate information are you interested in?

Score from 0 (no interest) to 5 (strong interest)



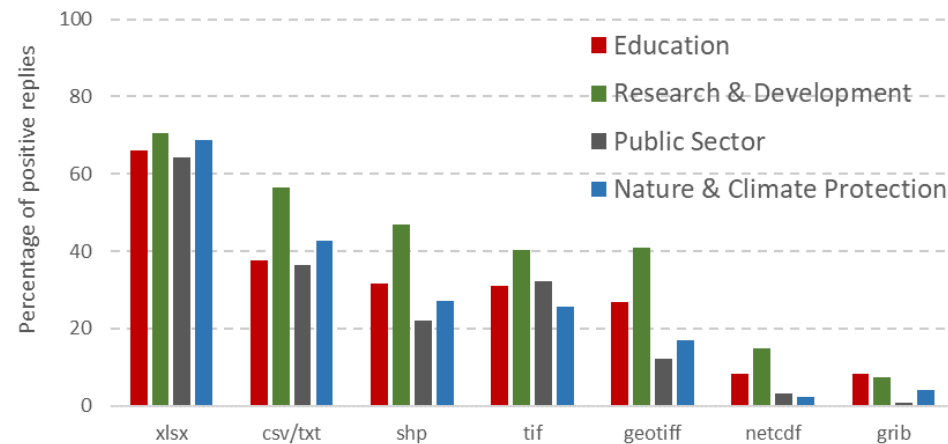
Which climate information are you interested in?

Score from 0 (no interest) to 5 (strong interest)



Which file types do you prefer for data export?

2 options, answer with yes or no





ClimVis Europe Pilot Project

...towards a European climate data visualisation tool for decision makers, education and the public

...increasing local transparency of past, present, forecasted and future Climate Change



THANK YOU!



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www.sei.org/projects-and-tools/projects/climvis

