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IN THIS ISSUE

letter from the CSP secretariat	2	recent publications	10
partner updates	3	upcoming events	11
		about CSP	14

Dear reader,

we are pleased to present a new issue of the CSP newsletter.

You will find various information on partner activities, recent publications and upcoming events.

In case you are not yet a subscriber, we invite you to visit
https://www.gerics.de/network/secretariats/CSP_Newsletter/index.php.en
for subscription.

Enjoy reading!

activities for climate-resilient societies

letter from the CSP Secretariat

It has been a long time since the last newsletter of the Climate Services Partnership has been sent to you, and since then, numerous activities in the field of climate services have further been developed and implemented by the community. All of them can be characterized by creativity, openness, an interest in collaboration and in supporting society to cope with climate change, which is so important in times when the World faces multiple crises and climate change is one amongst many.

This newsletter provides an insight into some of the activities of the past year and highlights some upcoming ones. It illustrates how Climate Services are changing over time and how their spectrum is expanding from supporting adaptation to the impacts of climate change towards promoting climate mitigation efforts. Ultimately, the aim of both is to make societies climate-resilient.

As an example, in the UK Climate Resilience Programme, which ran from 2019 until 2023, more than 60 projects were related to climate services, the [Tea-CUP](#) (Co-developing Useful Predictions) project being one of them. The [CoCareSociety](#) project at GERICS, funded by the German Federal Ministry of Education and Research, which aims to better understand the links between climate change, health and energy and to develop solutions for the needs ahead, is another example.

In the [DACStorE](#) project (funded by the Helmholtz-Association), societal acceptance of technological approaches to reduce atmospheric CO₂ concentrations is assessed. Methods to evaluate the acceptance of infrastructural or technological measures, to understand sentiments in groups of representatives for societies, and the reasons behind are crucial for the successful implementation of such measures. There is an urgent need to re-build or even newly build up large parts of the infrastructures in an innovative, hopefully climate-resilient way.

Ideally, those methods to assess public acceptance can be transferred to many questions and can thus support the diverse transformation processes so very needed. DACStorE is still happy to collect your opinion - please see on [page six](#).

There also has been and continues to be a lot of intense discussions and exchange about the ways of collaboration within and amongst organisations, being that very open, informal ones such as the CSP, or other, more institutionalized entities. How do they know from each other? How to initiate cooperation? How to identify possible partners? How to generate constructive exchange and omit unhealthy competition? What does an individual network stand for?

In this regard, a new initiative is working on bundling the various capacities, strengths, and characteristics of organisations and networks, in order to build up a “network of networks”. This International Network of Boundary Organisations on Adaptation (INBOA) will be launched this year, with the initial secretariat at Ouranos in Montreal, Canada; please find more information on this interesting and important initiative on [page three](#).

As many of you, INBOA will also be present at the Intersessionals in June in Bonn, the yearly event to prepare for the COP. This year’s COP (the 29th edition) will, among other topics, aim to establish a new global climate finance goal. You will find more information in the “upcoming events” category, starting on [page eleven](#). Further interesting and pivotal events relevant to the climate services community include the Sustainability Research and Innovation Congress (SRI2024) in Helsinki, in Finland in conjunction with the Africa Satellite Event.

It seems there is a lot to discover and to discuss, which we hope to bring over to you – enjoy reading.

Daniela Jacob

Director of Climate Service Center Germany (GERICS)

New initiative:**The Internatioal Organisation of Boundary Organisations (INBOA),
a „network of networks“**

New international network of Boundary Organization to start in early 2024
2023 saw several discussions amongst the adaptation and climate services community about the emergence of a potential new international network of Boundary Organizations. Aiming to complement initiatives already in place, this new network would focus on adaptation efforts occurring at the interface between science and users, mostly at the national and subnational levels.



Each member would already be doing boundary work, and could be providing climate services, but would not have to. The network would support activities that benefit as many members as possible. This would be mostly through exchanges including on experiences, databanks, methodologies and technologies, ways to get resources and even staff. The initiative is being co-created with Boundary Organizations interested and is expected to start in 2024 with the initial secretariat based at Ouranos in Montreal.

Activities at the MetOffice

Book published:

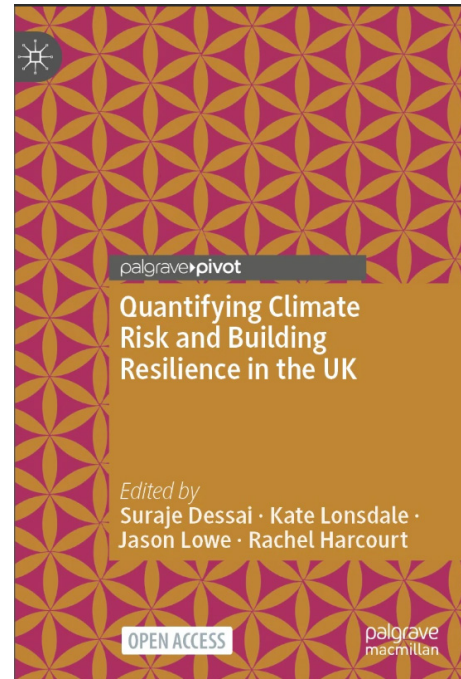
Learnings from the UK Climate Resilience Programme

A new open access book draws together learnings from the UK Climate Resilience Programme, and places them into a wider context to inform future research, policy and practice.

‘Quantifying climate risk and building resilience in the UK’ explores topics including:

- Undertaking climate resilience research
- Managing climate risks in place
- Climate services and other decision making tools
- Understanding and characterising hazard and risk information
- Processes and challenges of co-producing climate information

Access the book here: <https://link.springer.com/book/10.1007/978-3-031-39729-5>



The UK Climate Resilience Programme was led by UK Research and Innovation and the Met Office, represented by a Champions Team based at the University of Leeds.

Learn more about the UK Climate Resilience Programme here: <https://www.ukclimateresilience.org/>

A climate service is brewing – this time in the UK!

At the Met Office, scientists are working with tea experts and local farmers in China and the UK to better understand how changes in climate affect tea cultivation. Recently, the team have been looking at the growing UK tea industry, working with tea farmers from Scotland in the very North of the UK, to Devon down in the Southwest.



The Tea-CUP (Co-developing Useful Predictions) team were lucky enough to be able to visit their local tea garden (Dartmoor Estate Tea) and engage with the owners, gaining a better understanding of growers needs and requirements in relation to a changing and variable climate.

Dartmoor Estate's goals are similar to the Tea-CUP project's: they are committed to encouraging engagement, sharing knowledge, and creating a legacy for future tea growers. Detailed discussions covered the details of tea cultivation in Devon from voles to frost, the weather and climate factors that influence it, and the potential challenges that await.

The team have also recently made important connections with Tea Scotland, where work within Tea-CUP is beginning to explore how suitable different tea cultivars are for the current and future climate of Scotland. As the team continues collaborating with tea growers like Dartmoor Estate Tea and Tea Scotland, their common mission includes supporting the broader tea growing community both locally and globally. Key to their efforts are finding out how climate affects tea cultivation, and how a variable climate may impact plant health and tea flavour profiles now and in the future.



More information:

<https://www.ukclimateresilience.org/>

Pictures show the Tea-CUP team visiting Dartmoor Estate Tea in July 2023 (Stacey New, Nicola Golding, and Amy Waterson).

Innovative technologies for climate change mitigation

Survey in the framework of the project DACStorE

Society's positions towards climate change and its possible solutions are crucial for the development of adequate and fair adaptation measures. Because of this, at GERICS we work directly with various stakeholders and actors of society. The participation of society is therefore extremely important to us and serves as the basis for our research.

With project funding from the Federal Ministry of Science, we are currently working on new technologies to mitigate climate change. Our project DACStorE (www.dacstore-project.com) is a cooperation between seven German research institutes with the mission of paving the way for the sustainable ramp-up of Direct Air Capture and Storage (DACs) technologies.



An institution of Helmholtz-Zentrum **Hereon**

Within DACStorE, GERICS oversees the social engagement. To integrate societies' perceptions and attitudes towards DACs, we are launching an online survey (in German). The survey is anonymous and will take you around 15 minutes to complete. Please scan the QR code with your cell phone camera or visit us online at: <https://www.surveyhero.com/c/b9vzeudc> and make a small contribution today to manage climate change. The survey remains online for from February until Summer.

More information:

<https://www.dacstore-project.com/de>



EURO-CORDEX annual meeting 2024 at GERICS and virtual

The yearly general assembly of the European - Coordinated Regional Climate Downscaling Experiment (EURO-CORDEX) - took place from 22nd to 25th of January, 2024. During four days about 100 international scientists gathered at GERICS and virtually in order to share science findings and jointly discuss how to organize their voluntary engagement in CORDEX. They also celebrated the 15th anniversary of the EURO-CORDEX initiative.



Future research was planned with respect to different topics, such as modeling urban areas, downscaling the global CMIP6 simulations, organizing convection permitting simulations, model emulators and statistical methods and the use of regional climate ensemble simulations in climate service products.



An institution of Helmholtz-Zentrum **Hereon**

EURO-CORDEX is the European branch of the international CORDEX initiative, a program that operates under the auspices of the WCRP the World Climate Research Program (WCRP). The purpose of CORDEX is to organize an internationally coordinated framework to produce improved regional climate change projections for all land regions world-wide.

More information on the CORDEX initiative:

<https://cordex.org/>

More information on EURO-CORDEX:

<https://cordex.org/domains/cordex-region-euro-cordex/>

First results (open access) from the BMBF Junior Research Group CoCareSociety at Climate Service Center Germany (GERICS)

In its first article published in a scientific journal, the BMBF Junior Research Group CoCareSociety (Co-creating Climate Services for Care Economy and Caring Society) delves into the intricate interconnections among climate change, long-term care, health, and energy demand of older adults. Given the current shifts in demographics and climate, investigating and understanding these interconnections has never been more urgent.



The results are based on interdisciplinary workshops in Hamburg and Tokyo, aligning with the project's collaborative approach. Both views from the Global South and Global North are collected, revealing a complex web of cascading risks between climate change, long-term care and health, and energy demand of older adults. These results highlight the need for encouraging advancements in technology, promoting clean energy, and adopting climate-friendly practices.



An institution of Helmholtz-Zentrum **Hereon**

Considering increasing challenges of social injustice and climate extremes, the researchers suggest that supporting countries in the Global South should be prioritized.

The article “Exploring interconnections: A comprehensive multi-country analysis of climate change, energy demand, long-term care, and health of older adults” is published in the scientific journal *Maturitas* (Volume 184, June 2024). It is open access, so results and conclusions can be explored in detail here:

<https://www.sciencedirect.com/science/article/pii/S0378512224000562?via%3Dihub>

Learn more about CoCareSociety here:

<https://cocaresociety.de/index.php.en>

Validated Local Risk Actionable Data for Adaptation (Valorada)

The Valorada project is 3-year EU-funded project under the framework of the Horizon Europe Programme and led by Hereon.

The project is framed within 4 overarching questions:

1. Which data is needed to contextualise climate risk?
2. Which data is already available for this purpose?
3. Which value propositions enhance the climate value of locally produced data?
4. How can we link locally produced data with climate data and ensure their usability?

Questions are explored in 5 demonstration regions in Greece, Italy, France, Czech Republic, and Italy.

The project has just finalised its first stage, where identification of risks across demonstrators has been carried out through the development of climate impact chains. Also, a data-value chain describing the data workflows needed to characterise risks has been finalised. To share these findings and experiences in the use of data for climate adaptation, a workshop in Brussels gathered all partners and demonstrators during the month of February.



An institution of Helmholtz-Zentrum **Hereon**

In the next phase, Valorada will develop tools to support local data ecosystems in order to facilitate informed decision in the context of climate adaptation. Our partners will work with each demonstrator to explore the usability of data-manipulation tools and assess the feasibility of using data to better characterise climate risks and develop ad-hoc solutions.

During the third phase of the project, we will assess the usability of tools generated within the project and provide guidance on how to improve municipal data ecosystems for adaptation to climate change.

More information:

<https://valorada-project.eu/>

selection of the latest publications from the CSP community

Title: Sea-Level Rise in Pakistan: Recommendations for Strengthening Evidence-Based Coastal Decision-Making.

Authors: J. H. Weeks, Ahmed, S.N., Daron, J.D., Harrison, B.J., Hogarth, P., Ibrahim, T., Inam, A., Khan, A., Khan, F.A., Khan, T.M.A., Rasul, G., Rehman, N., Qureshi, A.A., and Sarfaraz, S.

Summary: Pakistan is vulnerable to a range of climate hazards, including sea-level rise. The Indus Delta region, situated in the coastal Sindh province, is particularly at risk of sea-level rise due to low-lying land and fragile ecosystems. In this article, expertise is drawn together from the newly established Pakistan Sea-Level Working Group, consisting of policy experts, scientists, and practitioners, to provide recommendations for future research, investment, and coastal risk management. An assessment of the current scientific understanding of sea-level change and coastal climate risks in Pakistan highlights an urgent need to improve the availability and access to sea-level data and other coastal measurements. In addition, reflecting on the policy environment and the enablers needed to facilitate effective responses to future sea-level change, recommendations are made to integrate coastal climate services into the National Adaptation Plan and develop a National Framework for Climate Services. Such a framework, alongside collaboration, co-production, and capacity development, could help support required improvements in coastal observations and monitoring and continuously deliver useful, usable, and accessible sea-level information for use by practitioners and decision-makers.

Link for more information: <https://www.mdpi.com/2306-5338/10/11/205>

Title: Nature-based solutions for coastal risk management in the Mediterranean basin:**A literature review**

Authors: G. Motta Zanin, Muwafu, S.P., Máñez Costa, M.

Summary: The Mediterranean basin is one of the most vulnerable regions worldwide due to its population density, the concentration of economic activities along the coasts and borderline climatic balance. It is identified as one of the most critical erosion hotspots in Europe, mainly due to the degradation of coastal areas, overexploitation and unsustainable practices affecting beach tourism, agriculture and fishing. The region is also affected by other phenomena such as storms and floods, which are exacerbated by climate change. To mitigate and adapt to these environmental and climatic changes, Nature based Solutions (NbSs) are considered a promising step-forward. However, despite their global recognition in both research and policy, few scientific papers and documents on the state of NbSs implementation for coastal risk management in the Mediterranean exist.

This paper aims to provide an understanding of the status of NbS adoption for coastal risk management in the Mediterranean through a literature review. Out of 162 scientific papers and documents, only 23 were found to be relevant to the study. Through the definition and support of an innovative matrix-based approach, the analysis of the state of adoption of NbSs have been performed. Despite the limited information on the state of the adoption of NbSs for coastal risk management in the Mediterranean due to the low numbers of scientific research and documents available, some key considerations have been revealed.

Link for more information: <https://www.science-direct.com/science/article/pii/S0301479724006534>

upcoming events in the climate and climate services community

Climate Services Network – guest speakers welcome!

Monthly Online

At the Met Office we have a well-established internal Climate Services Network (CSN). A CSN session is held once a month and we would like to offer the opportunity for guest speakers to present to our network.

If you have a project you would like to promote, or recent work you would like to showcase please fill out the Microsoft Form via the link <https://forms.office.com/e/TTAdK1zH1H> or contact stacey.new@metoffice.gov.uk.

The aims of the Climate Services Network are:

- Share and highlight climate service projects, activities &/or services. This includes sharing best practise and testing ideas; in order to enhance cross-team collaboration and mutual learning
- Provide a forum for collecting research needs, informed by evolving customer requirements
- Share knowledge of emerging underpinning science and new climate service capabilities
- Promote development and working opportunities within the climate service field

Bonn Climate Change Conference

3 – 13 June 2024

World Conference Center Bonn (WCCB)

Bonn, Germany

This June, the Sixtieth sessions of the Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation (SB 60) of the United Nations Framework Convention on Climate Change (UNFCCC) will once again take place at the WCCB. Traditionally, these „interim negotiations“ are of great importance for the preparation of the next climate conference, which will take place in Azerbaijan from November 11 to 22, 2024. Around 3,000 to 4,000 delegates from all over the world regularly take part in the two-week interim negotiations.

More details: <https://unfccc.int/sb60>

Sustainability Research and Innovation Congress (SRI) &

Finland's Sustainability Science Days (SSD)

10 – 14 June 2024

Helsinki & Espoo, Finland + online

The top sustainability science and innovation event of 2024 is a collaboration between the SRI and SSD. With a shared mission to achieve a knowledge-based sustainability transformation, the two leading sustainability science events are coming together this June.

The week-long event, SRI/SSD2024, will bring together 2000+ participants from more than 100 countries online and in-person to both Aalto University in Espoo and University of Helsinki in Finland.

More details: <https://sricongress.org/>

upcoming events in the climate and climate services community

7th General Assembly of the Copernicus Climate Change Service (C3C)

17 – 20 June 2024

Brussels, Belgium

ECMWF is holding its 7th General Assembly of the Copernicus Climate Change Service between 17-20 June in Brussels, Belgium, in partnership with the Belgian Science Policy Office, BELSPO.

Join us to hear about the latest developments in the service and help us shape the future.

The General Assembly will be an exciting moment to connect with your fellow C3S service providers as well as with representatives of EU institutions and agencies, Belgian stakeholders and ECMWF's partner organisations. The programme promises to offer ample networking opportunities in between engaging plenary and poster sessions. For more in-depth discussions, side meetings will be organised by ECMWF and BELSPO.

More details: <https://climate.copernicus.eu/7th-c3s-general-assembly>

ICLEI World Congress 2024

18 – 21 June 2024

São Paulo, Brazil

In June, ICLEI – Local Governments for Sustainability will organize its triennial World Congress. Hosted by the City of São Paulo, this event will showcase how local and regional governments across our network are advancing sustainable urban development worldwide.

More details: <https://iclei.org/events/iclei-world-congress-2024/>

Summer School:

Culture-driven Approach for Sustainability: Global Practices in the Cultural and Creative Industries

24 June – 05 July 2024

Shanghai Jiao Tong University, China + online

The course centers on the synergy between culture and creative industries and the United Nations Sustainable Development Goals (SDGs) through a culture-based approach. It prioritizes the intersection of culture, creativity, and sustainability. The course's main goals are to explore, understand, and leverage culture as a driving force for the SDGs, with particular emphasis on four frontier areas intervened by cultural actions, including gender equality, social wellbeing, climate change and community transition.

Students can expect an interdisciplinary approach, featuring expert lectures, case studies, and group discussions, to provide insights into the latest theoretical concepts, industry practices, and public policies. The course also includes a module dedicated to Chinese studies, encouraging international academic exchange and knowledge sharing.

By offering team-based practical exercises that employ design thinking methodologies, the course inspires students to apply culture-based approaches to real-life challenges. The primary goal is to cultivate an international perspective and critical thinking on global issues, enhance language and organizational collaboration skills, and foster abilities in international academic exchanges.

In conclusion, students can expect to gain a deep understanding of the relationship between culture, creative industries, and the SDGs, equipped with the knowledge and skills to advocate for culture-based sustainable policies that have a lasting impact on our world. This course is an essential platform for addressing urgent global issues and driving positive change through culture and creativity.

More details: <https://global.sjtu.edu.cn/en/page/sub/459>

upcoming events in the climate and climate services community

Youth Adaptation Forums

Several dates between Spring and August 2024

Online

The Global Center on Adaptation (GCA) is organising the 2024 Youth Adaptation Forums to collect good practice adaptation solutions from around the world, with a special focus on Africa, and influence adaptation policies which are related to the thematic priority areas which were identified in the Regional Youth Adaptation Forums.

By diving deeper into identified themes, the forums will mobilise young people to take and initiate adaptation action at a local level ahead of the Global Youth Adaptation Action Day 2024. The outcomes of the forums and the Global Youth Adaptation Action Day 2024 will be shared during COP29. The thematic Youth Adaptation Forums will:

- Boost global interest and knowledge of young people about climate adaptation
- Inspire young people to take climate adaptation action
- Spotlight young people's priorities on adaptation for policy engagement and adaptation action

More detail: <https://gca.org/youth-adaptation-forums/>

Code for Earth

18 September 2024

Online

Code for Earth is an innovation programme run by the European Centre for Medium-Range Weather Forecasts (ECMWF). Its aim is to drive innovation and open source developments in the Earth sciences community - supporting developments in weather and climate, Copernicus and Destination Earth (DestinE).

More detail: <https://climate.copernicus.eu/ecm-wfs-code-earth-2024>

17th European Public Health Conference 2024

12 – 15 November 2024

Lisbon, Portugal

With this year's theme 'Sailing the waves of European public health: exploring a sea of innovation', the conference seeks to push the boundaries, discover new approaches, and chart the course for the future of public health in Europe. Among sub-themes with a link to the climate-health crisis are 'Health inequalities' and 'Global health'. The conference is co-organised by the EPH Conference Foundation and several organization including Observatory partners ASPHER, ECDC, the European Commission and WHO Regional Office for Europe. In the run-up to the conference, monthly webinars explore the Conference's main theme and subthemes, addressing pressing topics such as workforce capacity building and the evolving role of public health professionals.

More detail: <https://ephconference.eu/index.php>

2024 United Nations Climate Change Conference (COP29)

11 – 22 November 2024

Baku, Azerbaijan

Last year's COP28 conference in Dubai, U.A.E, saw countries agree for the first time ever to "transition away" from fossil fuels, as well as to finance the Loss and Damage Fund.

In November, world leaders and delegates will meet again in Azerbaijan at the largest climate event of the year, where they will aim to establish a new global climate finance goal.

More detail: <https://unfccc.int/cop29>



The Climate Services Partnership (CSP) is a platform for knowledge sharing and collaboration to advance climate service capabilities worldwide. CSP members are climate information users, providers, donors, and researchers; though they represent diverse interests, all are actively engaged with climate services through their own programmes and activities. Partners collaborate to develop and improve climate services; they also learn from each other by sharing resources and experiences. The CSP creates a venue to generate new knowledge, establish best practices, and promote a resilient, sustainable, and climate-smart future. More information is also available on our website: www.climate-services.org.

The CSP newsletter is a publication meant to keep all informed of the latest updates of the partnership community. We rely on you for news of your activities, upcoming events, and recent publications.

Editorial board: Tanja Blome, Daniela Jacob, María Máñez Costa (all GERICS)



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