

Dr. Juliane El Zohbi

Contact: Climate Service Center Germany (GERICS)
Helmholtz-Zentrum Hereon
Fischertwiete 1
20095 Hamburg
juliane.el_zohbi@heron.de
+49 40 226 473

General research interests:

- user requirements for climate services products
- evaluation of climate services and products
- participatory and transdisciplinary processes
- stakeholder dialogues
- CO₂ removal options and related net-zero topics
- rural areas and agricultural sector
- nature-based solutions and ecosystem services
- robustness of climate model results at different spatial and temporal scales

Work/research experience:

since 07/2014 Scientific associate – Climate Service Center Germany (GERICS)

[CDRSynTra](#)

CDRSynTra is the accompanying and synthesis project of the joint projects in the [BMBF's "Carbon Dioxide Removal"](#) funding line, **2021 – 2024**

- » transdisciplinary dialogues with key actors from regional administration and the agricultural sector in Germany are used to gather knowledge about current land-based mitigation measures and strategies, and to identify information needs and knowledge gaps related to land-based CDR methods and their feedbacks on regional systems.

ADAPTER

ADAPT tERrestrial systems , funded by the Förderlinie Wissenschaftstransfer from the Impulse and Networking Fund of the Helmholtz Association, **2019 – 2023**

- » Through intensive dialogues with key partners from the agricultural sector, innovative simulation-based products are developed that support optimal adaptation to climate change

Netto-Null-2050

Cluster I as part of the Helmholtz Climate Initiative, **2019 - 2022**

- » Coordination of a creating a pilot-roadmap bringing together and integrating the different projects and work packages of the project to support Germany on its way to become CO₂-neutral by mid-century
- » Concept for stakeholder engagement for an app development to enhance the storage of carbon in the soils

H2020 OPERANDUM

OPEn-air laboRAtories for Nature baseD solUtions to Manage hydro-meteo risks, **2018-2022**

- » Co-coordination of modelling for the evaluation of nature-based solutions under consideration of climate change
- » Co-Coordination of the German 'open-air laboratory' for regional analysis of nature-based solutions

C3S GLORIOUS

Global users in the Copernicus Climate Change Service, C3S_422_Lot1_SMHI, **2017-2019**

- » Development of a method for quality assurance of climate impact indicators together with users

C3S DECM

Data Evaluation for Climate Models, C3S_51 Lot 4, **2016-2018**

- » Recording and evaluation of user requirements with regard to climate model data

FP7 CLIPC

Constructing Europe's Climate Information Portal, **2013-2016**

- » Development of a method to assess the robustness of climate impact indicators and their web presentation

11/2010 – 07/2014 Post-Doc – Laboratoire des Sciences du Climat et de l'Environnement (LSCE) in Gif-sur-Yvette (France)

DOFOCO (Do Forests Cool the Earth? - **2010 - 2015**):

- » Development of albedo scheme of ORCHIDEE to quantify the effects of the world's managed forests on the climate system

07/2010 – 10/2010 Post-Doc – Max Planck Institute for Meteorology (MPI-M) in Hamburg (Germany)

- » Model development of snow albedo scheme in JSBACH

06/2007 – 06/2010 PhD student – Max Planck Institute for Meteorology (MPI-M) and International Max Planck doctoral program on Earth System Modelling (IMPRS-ESM) in Hamburg (Germany)

- » Modelling of vegetation-climate interaction in mid-Holocene climate

Professional qualifications:

Language skills German (native speaker); English (fluent)

Participation in successful proposal writing: 2019: CS4eXtremes - BMBF
2018: ADAPTER - HGF
2017: GLORIOUS – Copernicus Climate Change Services
2016: MARCO - Horizon2020
2015: DECM - Copernicus Climate Change Services

Selected Publications:

Mengis, N., Kalhori, A., Simon, S., Harpprecht, C., Baetcke, L., Prats, E., Schmidt-Hattenberger, C., Stevenson, A., Dold, C., **El Zohbi, J.**, Borchers, M., Thrän, D., Korte, K., Gawel, E., Dolch, T., Heß, D., Yeates, C., Thoni, T., Markus, T., Schill, E.,

Xiao, M., Köhnke, F., Oeschle, A., Förster, J., Görl, K., Dornheim, M., Brinkmann, T., Beck, S., Bruhn, D., Li, Z., Steuri, B., Herbst, M., Sachs, T., Monnerie, N., Pregger, T., Jacob, D., Dittmeyer, R.: *Net-zero CO₂ Germany - A retrospect from the year 2050*, Earth's Future, in press.

Zahid, M., **El Zohbi, J.**, Viktor, E., Rechid, D., Schuck-Zöller, S., Keup-Thiel, E. and Jacob, D.: *What does quality mean to climate data users/providers and how to enable them to evaluate the quality of climate model data and derived products?*, in 'Handbook of Climate Services', Editors: Leal Filho, W. and Jacob, D., Springer International Publishing, doi: 10.1007/978-3-030-36875-3, **2020**.

Teichmann, C., Bülow, K., **Otto, J.**, Pfeifer, S., Rechid, D., Sieck, K. and Jacob, D.: *Avoiding extremes: Benefits of staying below +1.5 °C compared to +2.0 °C and +3.0 °C global warming*, Atmosphere (Basel), 9(4), 1–19, doi:10.3390/atmos9040115, 2018.

Luyssaert, S., Marie, G., Valade, A., Chen, Y.-Y., Njakou Djomo, S., Ryder, J., **Otto, J.**, Naudts, K., Lansø, A. S., Ghattas, J. and J. McGrath, M.: *Trade-offs in using European forests to meet climate objectives*. *Nature* **562**, 259–262 doi:10.1038/s41586-018-0577-1, **2018**.

Otto, J., Brown, C., Buontempo, C., Doblas-Reyes, F., Jacob, D., Jukes, M., Keup-Thiel, E., Kurnik, B., Schulz, J., Taylor, A., Verhoelst, T. and Walton, P.: *Uncertainty: Lessons learned for climate services*, Bull. Am. Meteorol. Soc., BAMS-D-16-0173.1, doi:10.1175/BAMS-D-16-0173.1, **2016**.

Naudts, K., Chen, Y., McGrath, M. J., Ryder, J., Valade, A., **Otto, J.** and Luyssaert, S.: *Europe's forest management did not mitigate climate warming*, Science, 351(6273), 597–600, doi:10.1126/science.aad7270, **2016**.

Pfeifer, S., Bülow, K., Gobiet, A., Hänsler, A., Mudelsee, M., **Otto, J.**, Rechid, D., Teichmann, C. and Jacob, D.: *Robustness of Ensemble Climate Projections Analyzed with Climate Signal Maps: Seasonal and Extreme Precipitation for Germany*, Atmosphere, 6(5), 677–698, doi:10.3390/atmos6050677, **2015**.

Otto, J., Berveiller, D., Bréon, F.-M., Delpierre, N., Geppert, G., Granier, A., Jans, W., Knohl, A., Kuusk, A., Longdoz, B., Moors, E., Mund, M., Pinty, B., Schelhaas, M.-J. and Luyssaert, S.: *Forest summer albedo is sensitive to species and thinning: how should we account for this in Earth system models?*, Biogeosciences, 11(8), 2411–2427, doi:10.5194/bg-11-2411-2014, **2014**.

