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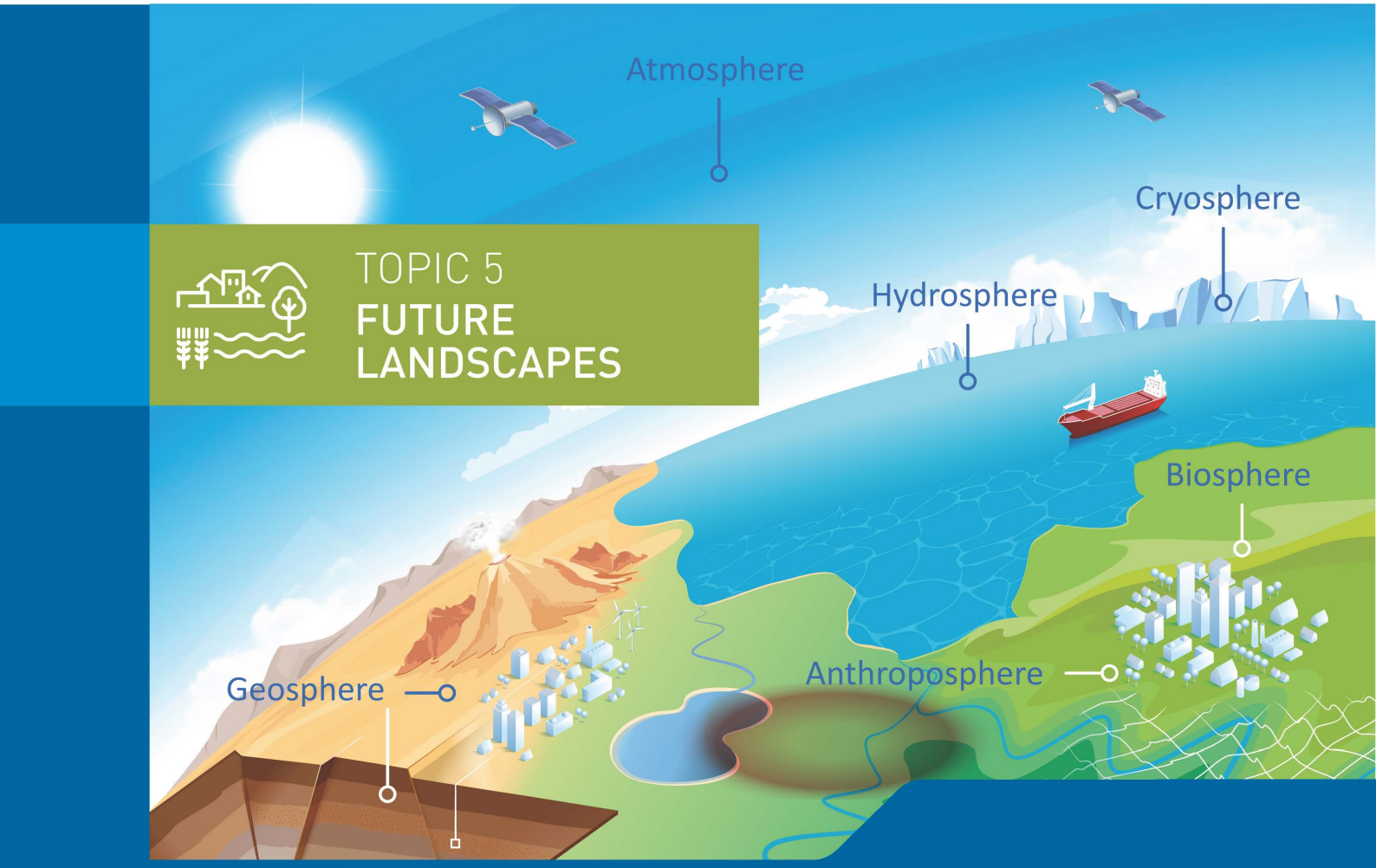

Publications

Helmholtz Centre for Environmental Research – UFZ

Topic 5: Landscapes of the Future: Securing Terrestrial Ecosystems and Freshwater Resources under Natural Dynamics and Global Change

Preface

This list includes all publications of the year 2025 assigned to program topic 5 “Landscapes of the Future: Securing Terrestrial Ecosystems and Freshwater Resources under Natural Dynamics and Global Change” of the Helmholtz research program "Changing Earth – Sustaining our Future" within the research field Earth and Environment which were authored, co-authored or edited by staff members of the Helmholtz Centre for Environmental Research - UFZ.

If a publication belongs to more than one program topic, both primary and secondary assignments are indicated.

The editorial deadline for this publication list was 6 March 2026.

In contrast to external authors, UFZ staff names are highlighted in **bold type** in all publications.

The concluding index lists all UFZ authors in alphabetical order with the sequential numbers of their publications.

Table of contents

Publications in ISI/Scopus listed journals/series

1. Aala, S., **Kumar, R.,** Ribbe, L., **Borchardt, D., Tarasova, L.** (2025):
The effects of space-time dynamics of precipitation on the shape and timing of streamflow event hydrographs
Hydrol. Process. **39** (11), e70333
10.1002/hyp.70333

2. Ablormeti, F.K., Corcino Souza, P.G., Awuah, R.T., Kwoseh, C.K., Agbetiameh, D., Kena, A.W., Aidoo, K.A.S., Lutuf, H., Sossah, F.L., **Siqueira da Silva, R.,** Aidoo, O.F. (2025):
Modeling global habitat suitability of *Agroathelia rolfsii* causing *Sclerotium* wilt disease of tomato with emphasis on Ghana
Sci. Rep. **15** , art. 34034
10.1038/s41598-025-12259-1

3. Achterberg, E.P., Rackelmann, F., Ramesh, A., O'Connor, J., Garcìa-Oliva, O., Jayachandran, S., Wichert, V., Li, X., Purkiani, K., Needham, D.M., Bussmann, I., Fischer, P., Kopf, A., Lemmen, C., Scharsack, J.P., **Siebert, C., Kamjunke, N.,** Sokolova, I.M., Brix, H. (2025):
Identifying and addressing the components of extreme physical-oceanographical events for improved risk management in coastal systems
Front. Mar. Sci. **12** , art. 1681652
10.3389/fmars.2025.1681652
Main topic T4; Secondary topic T5

4. Acuña Espinoza, E., Loritz, R., Kratzert, F., **Klotz, D.,** Gauch, M., Álvarez Chaves, M., Ehret, U. (2025):
Analyzing the generalization capabilities of a hybrid hydrological model for extrapolation to extreme events
Hydrol. Earth Syst. Sci. **29** (5), 1277 - 1294
10.5194/hess-29-1277-2025

5. Adul, J., **Kumar, R.,** Obringer, R. (2025):
Ensemble modeling of the climate-energy nexus for renewable energy generation across multiple US states
Environ. Res.-Infrastruct. Sustain. **5** (1), art. 015006
10.1088/2634-4505/adad12

6. **Ague, S.K.d.L., Rinke, K.,** Mama, D., **Koschorreck, M.** (2025):
Greenhouse gas emissions from a large and shallow tropical African lake: contribution of different gases and emission pathways
J. Geophys. Res.-Biogeosci. **130** (10), e2024JG008572
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Main topic T4; Secondary topic T5

7. **Agyekum, M.K.,** Pathak, D., **Kindinger, A., Kumar, R., Borchardt, D., Weitere, M., Frank, K., Schmitt-Jansen, M., Büttner, O., Brauns, M., Fink, P., Scharfenberger, U.** (2025):
A hydrologically informed agricultural land use intensity index for assessing ecological impacts on streams and rivers
Commun. Earth Environ. **6** , art. 991
10.1038/s43247-025-02933-7
Main topic T5; Secondary topic T9

8. **Agyekum, M.K.,** Zimmer, M., MacKay, F., Weerts, S., Helfer, V. (2025):
Spatial and temporal patterns of mangrove forest canopy gaps at the southern distribution limit
Bull. Mar. Sci. **101** (3), 1161 - 1175
10.5343/bms.2023.0165

9. Aidoo, O.F., Correa Amaro, G., Corcino Souza, P.G., Coutinho Picanço, M., Awuah-Mensah, K.A., **Siqueira da Silva, R.** (2025):
Climate change impacts on worldwide ecological niche and invasive potential of *Sternochetus mangiferae*
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Environ. Microbiol. **27** (2), e70051
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11. Al-Mashharawi, S.K., Steele-Dunne, S.C., El Hajj, M.M., **Schrön, M.,** Doussan, C., Courault, D., Franz, T.E., McCabe, M.F. (2025):
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Environ. Entomol. **54** (5), 1124 - 1135
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Distribution of polycyclic aromatic compounds among various phases in an urban road microenvironment of a tropical megacity
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Main topic T5; Secondary topic T9

14. **Alvarez-Mora, I.,** Arturi, K., Béen, F., Buchinger, S., El Mais, A.E.R., Gallampois, C., Hahn, M., Hollender, J., Houtman, C., Johann, S., **Krauss, M.,** Lamoree, M., Margalef, M., **Massei, R., Brack, W., Muz, M.** (2025):
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Anal. Bioanal. Chem. **417** , 451 - 472
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Main topic T9; Secondary topic T5

15. Amador, C.I., Moscovitz, S.Z., Maccario, L., Herschend, J., Kramer, I.-S., Jeckel, H., Cooper, V.S., Drescher, K., **Neu, T.R.,** Burmølle, M., Røder, H.L. (2025):
Evolution of genotypic and phenotypic diversity in multispecies biofilms
npj Biofilms Microbiomes **11** , art. 118
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Decoding the impact of interspecies interactions on biofilm matrix components
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17. Amano, T., Ramírez-Castañeda, V., Berdejo-Espinola, V., Borokini, I., Chowdhury, S., **Golivets, M.,** González-Trujillo, J.D., Montaño-Centellas, F., Paudel, K., White, R.L., Veríssimo, D. (2025):
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Complex adaptive systems science in the era of global sustainability crisis
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20. **Andrzejak, M., Knight, T.M.,** Plos, C., **Korell, L.** (2025):
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Role of infiltration on land–atmosphere feedbacks in central Europe: Fully coupled WRF-Hydro simulations evaluated with cosmic-ray neutron soil moisture measurements
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22. Augusto, L., Borelle, R., Boča, A., Bon, L., Orazio, C., Arias-González, A., Bakker, M.R., Gartzia- Bengoetxea, N., **Auge, H.,** Bernier, F., Cantero, A., Cavender-Bares, J., Correia, A.H., De Schrijver, A., Diez-Casero, J.J., Eisenhauer, N., Fotelli, M.N., Gâteblé, G., Godbold, D.L., Gomes-Caetano-Ferreira, M., Gundale, M.J., Jactel, H., Koricheva, J., Larsson, M., Laudicina, V.A., Legout, A., Martín-García, J., Mason, W.L., Meredieu, C., Mereu, S., Montgomery, R.A., Musch, B., Muys, B., Paillassa, E., Paquette, A., Parker, J.D., Parker, W.C., Ponette, Q., Reynolds, C., Rozados-Lorenzo, M.J., Ruiz-Peinado, R., Santesteban-Insausti, X., Scherer-Lorenzen, M., Silva-Pando, F.J., Smolander, A., Spyroglou, G., Teixeira-Barcelos, E.B., Vanguelova, E.I., Verheyen, K., Vesterdal, L., Charru, M. (2025):
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24. Babuchowska, K., Marks-Bielska, R., Dereszewski, W., Popławski, Ł., Fragomeni, F., Sekhniashvili, D., Žukovskis, J., **Zinke, C.** (2025):
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Main topic T5; Secondary topic T4

33. Bastidas-Urrutia, A.M., Biber, M.F., **Böhning-Gaese, K.,** Fritz, S.A., Kreft, H., Tobias, J.A., Weigelt, P., Hof, C. (2025):
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Scenario analysis of nitrogen surplus typologies in Europe shows that a 20% fertilizer reduction may fall short of 2030 EU Green Deal goals
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42. Benedix, C., Bleicher, A., Schöne, L.S., **Ayeh, D.** (2025):
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Main topic T8; Secondary topic T5

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Das Recht der Wasser- und Entsorgungswirtschaft *57*
Heymanns, Köln, S. 111 - 134

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bioRxiv
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Main topic T7; Secondary topic T5

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SSRN
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bioRxiv
10.1101/2025.02.06.636804

UFZ author index

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

Y

Z

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