

Risk KAN: Compound Events Newsletter

--- Feb 2024 Edition ---

Upcoming Conferences & Workshops:

Apr 10-12: International Multi-Risk Seminar (Natal, Brazil)

Abstract submission deadline Feb 20

<https://georisco.ufrn.br/evento/multi-risk-international-seminar/>

Jun 12-13: 3rd International Conference on Natural Hazards and Risks in a Changing World: Addressing Compound and Multi-Hazard Risk (Amsterdam)

<https://www.changingworldrisks2024.eu>

Jun 17-21: Understanding Risk Global Forum (Himeji, Japan)

<https://www.understandrisk.org/events/>

Jun 23-28: AOGS 2024 (Pyeongchang, South Korea)

Session IG08

<https://www.asiaoceania.org/aogs2024>

Job Listings:

PhD position on present and future fire weather extremes across Europe (UFZ Leipzig)

<https://recruitingapp-5128.de.umantis.com/Vacancies/2895/Description/2>

Postdoc position on multi-hazard climate risk assessment (VU Amsterdam)

<https://workingat.vu.nl/vacancies/postdoc-position-multi-hazard-climate-risk-assessment-amsterdam-1055603>

Recent Papers:

AghaKouchak, A., et al. (2023). "**Toward impact-based monitoring of drought and its cascading hazards.**" *Nat. Rev. Earth Environ.* doi:10.1038/s43017-023-00457-2.

Ali, J., et al. (2023). "**The role of compound climate and weather extreme events in creating socio-economic impacts in South Florida.**" *Wea. Clim. Extr.* doi:10.1016/j.wace.2023.100625.

Bowers, C., Serafin, K., Tseng, K.-C., and Baker, J. (2023). "**Atmospheric river sequences as indicators of hydrologic hazard in historical reanalysis and GFDL SPEAR future climate projections.**" *Earth's Fut.* doi:10.1029/2023ef003536.

Chen, C., Schwarz, L., Rosenthal, N., Marlier, M., and Benmarhnia, T. (2024). "**Exploring spatial heterogeneity in synergistic effects of compound climate hazards: Extreme heat and wildfire smoke on cardiorespiratory hospitalizations in California.**" *Sci. Adv.* doi:10.1126/sciadv.adj7264.

Chen, H., and Wang, S. (2023). "**Compound dry and wet extremes lead to an increased risk of rice yield loss.**" *Geophys. Res. Lett.* doi:10.1029/2023gl105817.

de Brito, M., et al. (2024). "**Uncovering the dynamics of multi-sector impacts of hydrological extremes: A methods overview.**" *Earth's Fut.* doi:10.1029/2023ef003906.

Ganguli, P., and Merz, B. (2024). "**Observational evidence reveals compound humid heat stress-extreme rainfall hotspots in India.**" *Earth's Fut.* doi:10.1029/2023ef004074.

Goulart, H. M. D., et al. (2024). "**Compound flood impacts from Hurricane Sandy on New York City in climate-driven storylines.**" *Nat. Hazards Earth Syst. Sci.* doi:10.5194/nhess-24-29-2024.

- Hao, Z., and Chen, Y. (2024). "**Research progresses and prospects of multi-sphere compound extremes from the Earth System perspective.**" *Sci. China Earth Sci.* doi:10.1007/s11430-023-1201-y.
- Hoell, A., et al. (2024). "**Changes to Middle East and Southwest Asia compound drought and heat since 1999.**" *J. Clim.* doi:10.1175/jcli-d-23-0194.1.
- Huang, D., et al. (2023). "**The variation of compound warm dry extremes over Eastern China and the associated East Asian subtropical jet in the boreal summer.**" *J. Geophys. Res. Atmos.* doi:10.1029/2023jd039392.
- Jones-Crank, J., Lu, J., and Orlove, B. (2024). "**Bridging the gap between the water-energy-food nexus and compound risks.**" *Environ. Res. Lett.* doi:10.1088/1748-9326/ad1ad0.
- Lee, R., et al. (2024). "**Reclassifying historical disasters: From single to multi-hazards.**" *Sci. Tot. Environ.* doi:10.1016/j.scitotenv.2023.169120.
- Liao, Z., An, N., Chen, Y., and Zhai, P. (2024). "**On the possibility of the 2022-like spatio-temporally compounding event across the Yangtze River Valley.**" *Environ. Res. Lett.* doi:10.1088/1748-9326/ad178e.
- Wang, C., et al. (2023). "**Drought-heatwave compound events are stronger in drylands.**" *Wea. Clim. Extr.* doi:10.1016/j.wace.2023.100632.
- Xi, X. (2023). "**On the geomorphic, meteorological, and hydroclimatic drivers of the unusual 2018 early summer salt dust storms in Central Asia.**" *J. Geophys. Res. Atmos.* doi:10.1029/2022jd038089.
- Yu, G., et al. (2023). "**Process-based quantification of the role of wildfire in shaping flood frequency.**" *Water Resour. Res.* doi:10.1029/2023wr035013.
- Zeng, Z., Lai, C., Wang, Z., Chen, Y., and Chen, X. (2023). "**Future sea level rise exacerbates compound floods induced by rainstorm and storm tide during super typhoon events: A case study from Zhuhai, China.**" *Sci. Tot. Environ.* doi:10.1016/j.scitotenv.2023.168799.