## Geolingual Studies @ CAIDAS Prof. Dr. Carolin Biewer & Prof. Dr. Hannes Taubenböck Geolingual Studies **Chair of English Linguistics** Chair of Global Urbanisation and Remote Sensing Würzburg University flood impact high retweet count mid UNHCR locations • Refugee-related news mentions at UNHCR locations Refugee-related news mentions • **GDELT** flood impact high Anambra retweet count mid **INSIDE STORY:** How herders-farmers flood impact high crisis has turned Nigerians to refugees in retweet count high Benin Republic Many flood-affected places discussed 96.8% of refugee-related locations in on Twitter, but (re-)tweet frequency West Africa not covered by online news. In Benue we had flooding before, but this year is too much not correlated to flood impact. Reference: Senaratne, H., Mühlbauer, M., Kiefl, R., Cárdenas, A., Prathapan, L., Riedlinger, T., Biewer, C., & Taubenböck, H. (2023). The Unseen-An Investigative Analysis of Thematic and Spatial Coverage of News on the Ongoing Refugee Crisis in West Africa. Reference: Mast, J., Sapena Moll, M., Geiß, C. & Taubenböck, ISPRS International Journal of Geo-Information, 12(4), Article 4. doi: 10.3390/ijgi12040175 H. Linking remote sensing data and online engagement in flood events in Nigeria, in 2023 Joint Urban Remote Sensing Event, JURSE 2023, Heraklion, Griechenland: IEEE, 2023, pp. 1-4. doi: 10.1109/JURSE57346.2023.10144130 Conflict & Natural Crises Disasters I love how my dog is hearing the siren and starts pushing me to get out of the bed and go to our bomb shelter each time. Smart cookie! Remote Sensing Data Satellite Data Aerial Imagery **Drone Imagery** While wetin dey happen? Which kind wahala be this? **Proportion of** In-Situ Data Web Data Local Nigerian English **Terms by Country** Mobility & **Q** (n = 2215) Language Migration Web News Surveys Interviews **Open Literature** (n = 481) Social Media Data Measurement Stations Int. support/NATO (n = 527) Russian 0.10% 0.20% Percentage of Tweets Nigerians' use of local Administrative Data Topics & language of tweets by Volunteered Data language features differs by Citizen Science migrants from Ukraine change user location and mobility. Geo Data during migration and return. Reference: Mast, J., Heps, D., & Sapena, M. (fc.) Using geolocated social media data for understanding the relationships between Reference: Lemoine-Rodríguez, R., Mast, J., Mühlbauer, M., language, topic and mobility: A study on a local use of English in Mandery, N., Biewer, C., & Taubenböck, H. (2024). The Nigeria. In C. Biewer, L. Lehnen, N. Schulz, & H. Taubenböck (Eds.), voices of the displaced: Mobility and Twitter conversations Geolingual Studies on Urban Space. Edinburgh University Press. of migrants of Ukraine in 2022. Information Processing & **Urban Social** Management, 61, 103670. doi: 10.1016/j.ipm.2024.103670 Climate **Dynamics** urban climate . . . Today's KPI: survive the meetings, make it to the end of the day. Compact High-rise Compact Mid-rise **Compact Low-rise** Open High-rise Open Mid-rise Open Low-rise Large Low-rise Sparsely built Dense trees Scattered trees urban urban urban morphology morphology residents Number of heat I still have a headache and insomnia because of the stupid heat related tweets increases drastically Compact High-rise Open Low-rise at a 25°C threshold. Commerce Culture Reference: Lemoine-Rodríguez, R., Biewer, C., Inostroza, L., & Taubenböck, H. (2025). Online Transportation Concerns About Urban Heat: Social Media, Daily Life 30 Temperature, and Urban Form. 2025 Joint Urban Leisure Remote Sensing Event (JURSE), CFP25RSD-ART, 1-4. doi: 10.1109/JURSE60372.2025.11075998 Online discourse relates to 20 urban form & function. an afternoon wandering the halls-Reference: Jheng, D., Lemoine-Rodríguez, R., Biewer, C., Seto, K. C., & Taubenböck, H. (2025). The Relationship Between Urban admiring the artifacts - always interesting Morphology and the Citizens' Social Media Footprints: A case study on Tokyo. 2025 Joint Urban Remote Sensing Event (JURSE), gallery to see CFP25RSD-ART, 1–4. doi:10.1109/JURSE60372.2025.11076032 21 23 Maximum air temperature (°C) Julius-Maximilians-

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