Cooling effects of tropical urban green and transfer the analysis to the UT campus in Enschede

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**In a nutshell**

* The original work was done in Paramaribo, the capital of Suriname. Suriname is a former Dutch colony in the Caribbean (north of Brazil). We had a series of projects on urban green in Paramaribo ([groenparamaribo.orgLinks to an external site.](http://www.groenparamaribo.org/)) which included engaging citizens to monitor sensors of urban climate in the city.
* The data derived from climate sensors was analysed to understand the effect of urban green on the tropical urban climate. The existing analysis was published as scientific article: L. Best, N. Schwarz, D. Obergh, A.J. Teuling, R. van Kanten, L. Willemen (2023): Urban green spaces and variation in cooling in the humid tropics: The case of Paramaribo. Urban Forestry and Urban Greening 89: 128111. [https://doi.org/10.1016/j.ufug.2023.128111Links to an external site.](https://doi.org/10.1016/j.ufug.2023.128111)
* Four such climate sensors are also placed on the campus of the University of Twente. We have collected data over several years already, which will be shared with you.
* Your goals could be
  1. to replicate the work for Paramaribo by translating the existing programming code from R to Python,
  2. to transfer the analysis to the UT campus in Enschede as far as possible, keeping in mind the different climate zone.