

Flood pollution and flood control



Control sewer infrastructure in Copenhagen in such a way that flooding is minimized. A focus of this work should be identifying a more optimal operation scheme for the "Cloudburst button", which activates discharges to the harbor in case of extreme rainfall. Other focuses could be to activate flooding of urban spaces based on estimates for the current pollutant load in the sewers.

Tool: MIKE Urban.

- Tasks:
Identify areas that could be used for intermediate storage of water on parking lots / on streets
- Close street inlets in the catchment if pipe water level in a flood-prone area exceeds a threshold
- Test the effect of such measures on flood extent for different return periods

Project type

Topic is suitable for MSc

Pre-requisite

General understanding of flooding + urban drainage, first experience in modelling with MIKE Urban

Group size

1 student

Department of supervisors

Main supervisor: DTU Environment

Co-supervisor: Krüger A/S

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