

An urban surface parametrization scheme and derivation of its input parameters

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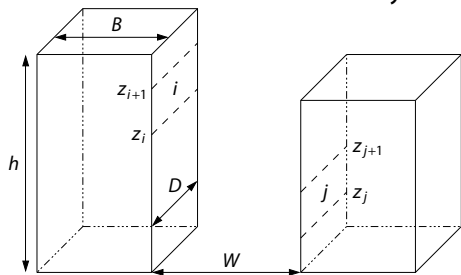
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An Urban Parametrization Scheme

- ▶ size of urban areas growing
- ▶ resolution of weather and climate models increasing
- ▶ *but*: computation cost too high to incorporate every single building
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- ▶ Parametrization Scheme by Martilli et al. (2002):



B building width

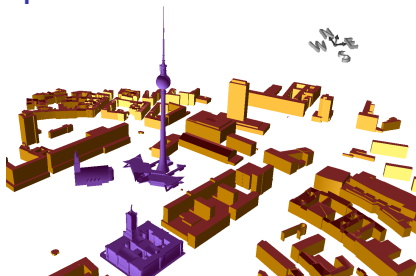
W street width

D canyon length

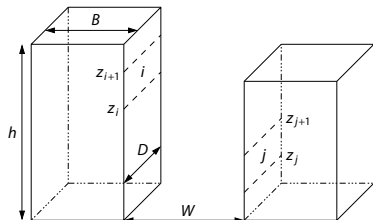
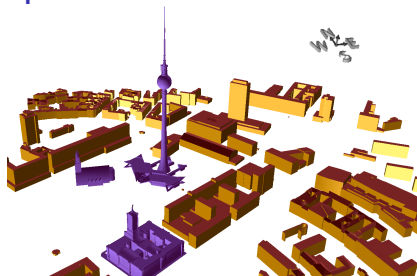
h height with
probability $\gamma(h)$

z_i height of level i

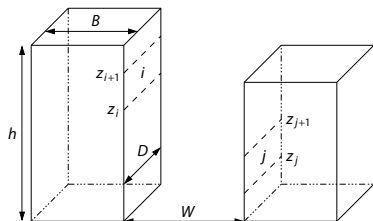
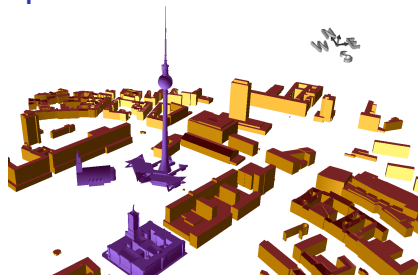
Input Parameters



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Building Width [m]

