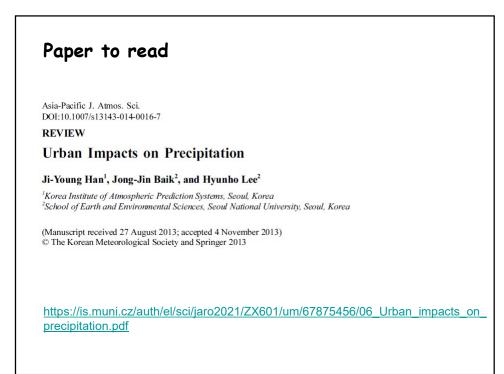
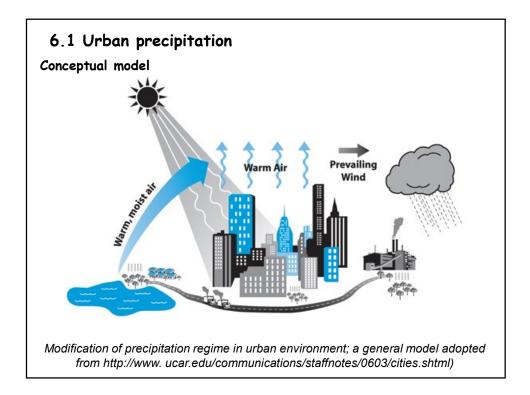
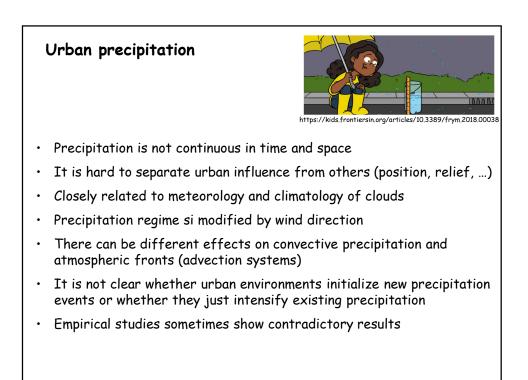
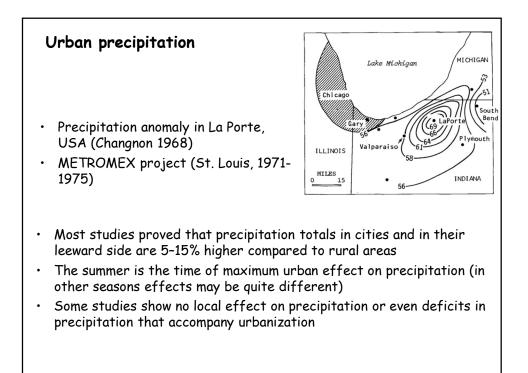
URBAN CLIMATOLOGY

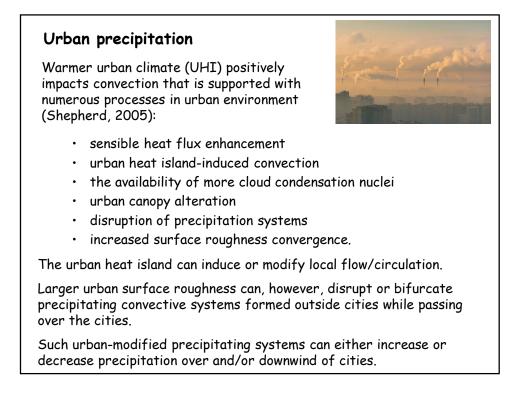
VI. Precipitation in urban areas











Urban precipitation

Precipitation regime in urban areas is modified due to **three different effects**:

- thermal effect (UHI causes larger surface sensible heat flux in urban areas than in surrounding rural areas; stronger convection in summer -> more showers and thunderstorms)
- mechanical effect (higher roughness -> lower velocity of atmospheric fronts -> more precipitation)
- pollution effect (more condensation nuclei)
- Due to UHI there is lower proportion of precipitation in the form of snow
- Ice particles of anthropogenic origin -> condensation nuclei for stratus clouds -> more frequent light snowfall in city

