

Mini Research Note on Urban Climate

Hannah Arnold

November 10, 2025

1 Introduction

Urban form strongly affects local temperature through geometry and material properties. For example, Oke [1982] developed the fundamental energy balance model for urban surfaces. More recent studies such as Stewart [1999] and Chen [2005] expanded this to classify and quantify urban environments.

2 Figures

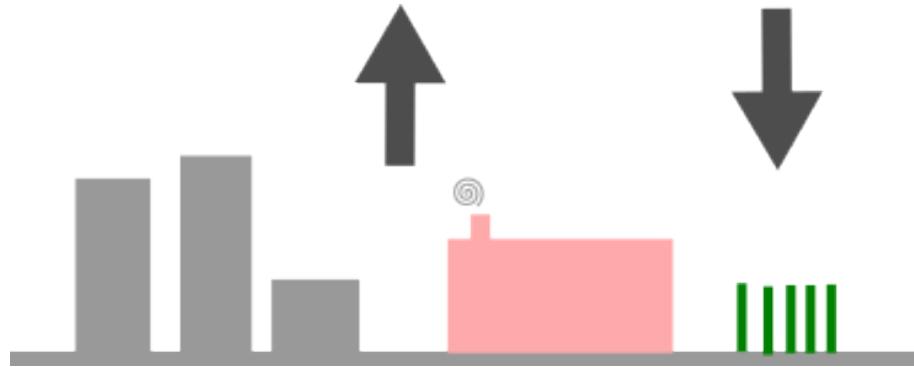


Figure 1: Carbon dioxide balance for urban surfaces. Image created by the author.

References

- Lin Chen. *Quantification of urban environments*, volume 41. Urban Journal, 2005.
- T. R. Oke. *The energetic basis of the urban heat island*, volume 108. Quarterly Journal of the Royal Meteorological Society, 1982.
- John Stewart. *Classification of urban environments*, volume 41. Urban Journal, 1999.