

## Handout 4: Aerial unit data / spatial data on lattices

Lecturer & author: Georgios P. Karagiannis

georgios.karagiannis@durham.ac.uk

---

**Aim.** To introduce Aerial unit data modeling: the basic building models.

---

### Reading list & references:

- [1] Cressie, N. (2015; Part I). Statistics for spatial data. John Wiley & Sons.
- [2] Gaetan, C., & Guyon, X. (2010; Ch 2 & 5.1). Spatial statistics and modeling (Vol. 90). New York: Springer.

### Specialized reading.

- [3] Kent, J. T., & Mardia, K. V. (2022). Spatial analysis (Vol. 72). John Wiley & Sons. (on Spatial analysis)

**Part 1. Basic stochastic models & related concepts for model building**

**Part 2. Model building & related parametric inference**