

内容提要

引言

研究意义
文献综述
主要内容

模型 (SGLMM)

模型结构
计算方法
数据分析

结论与展望

Examples

1. radionuclide concentrations on Rongelap Island
2. childhood malaria in the gambia
3. Loa loa prevalence in Cameroon and surrounding areas

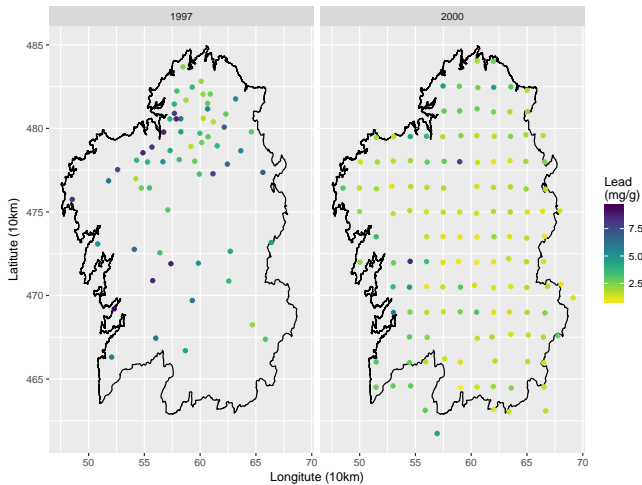
Introduction

Diggle *et al.* (2002)

- the effects of child level covariates (age and bed net use)
- village level covariates (the primary health care and greenness of surrounding vegetation)
- separate components for residual spatial
- non-spatial extrabinomial variation

\mathbb{R}^n

$$\log\{p_{ij}/(1 - p_{ij})\} = \alpha + \beta' \mathbf{z}_{ij} + U_i + S(\mathbf{x}_i)$$



谢谢!

参考文献 I

Diggle, Peter, Moyeed, Rana, Rowlingson, Barry, & Thomson, Madeleine. 2002. Childhood malaria in the Gambia: a case-study in model-based geostatistics. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, **51**(4), 493–506.