CARBayes GEOMED course

Thank you for registering for the course, enclosed is all the files that you need. The course is split into 3 parts.

Part 1 - Exploratory analysis and mapping.
Part 2 - Spatial modelling with CARBayes.
Part 3 - Spatio-temporal modelling with CARBayesST.

Each part has a short lecture component before a worked example in R. Please download the following files onto your laptop into the same directory.

Lectures - notes
Geomed part 1 - exploratory analysis.pdf
Geomed part 2 - Modelling spatial data.pdf
Geomed part 3 - modelling spatio-temporal data.pdf

Practicals - notes
Geomed_part_1_-_exploratory_analysis_-_practical.pdf
Geomed_part_2_-_Modelling_spatial_data_-_practical.pdf
Geomed_part_3_-_Modelling_spatio-temporal_data_-_practical.pdf

Practicals - R-code
Geomed part 1 - Scotland exploratory analysis.R
Geomed part 2 - Scotland spatial modelling.R
Geomed part 3 - Scotland spatio-temporal modelling.R

Practicals - datasets
Scotland spatial data.csv
Scotland space time data.csv
ScotlandIZ.dbf
ScotlandIZ.shp

When running the R code please bring a laptop and ensure that R (preferably with R studio) is loaded with   the following libraries and their dependencies.

Libraries
CARBayes
CARBayesST
ggmap
ggplot2
gridExtra
map tools
Rcolorbrewer

regal
rgeos
shapefiles
sp
spdep