1 Introduction

The MRSea package was developed for analysing data that was collected for assessing potential impacts of renewable developments on marine wildlife, although the methods are applicable to other studies as well. This vignette gives an updated example of the code for version 0.2.0. For additional information regarding methods, see Mackenzie, et al. (2013) and Scott-Hayward, et al. (2013). The user should be familiar with generalised linear models and their assumptions and model selection. The MRSea package primarily allows spatially adaptive model selection for both one and two dimensional covariates using the functions runsALSA1D_withremoval and runsALSA2D, which implement the methods of Walker, et al. (2010) and Scott-Hayward, et al. (2013). Other functions include diagnostics (to assess residual correlation: runACF, smooth relationships: runPartialPlots and model selection (ANOVA) for a Generalised Estimating Equation used when residual correlation is present: getPvalues) and inference (do.bootstrap.cress).

2 References:

[1] M. Mackenzie, L. Scott-Hayward, C.S., Oedekoven, H., Skov, E. Humphreys and E. Rexstad. $statisticalModellingofSeabirdandCetaceandata: GuidanceDocument.UniversityofSt.AndrewscontractforMar Hayward, C.Oedekoven, M.Mackenzie, C.WalkerandE.Rexstad._UserGuidefortheMRSeaPackagev0.1.2: StatisticalModellingofbirdandcetaceandistributionsinoffshorerenewablesdevelopmentareas.UniversityofSt.Andrew ASpatiallyAdaptiveLocalSmoothingAlgorithm". In: JournalofStatisticalComputationandSimulation81.2(2010), pp.17191.$

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