Summary of 林務局2022

2022-11-14

不納入分析的情形：  
  
1. 移除非森林。樣點座標距離森林圖層>20m者為非森林。  
2. 移除海拔<50m的樣點(及猴群)資料。  
3. 移除3/1~6/30以前或以後的調查。  
4. >100m的猴群不納入分析。(猴群改為0)  
5. 同一旅次同一樣區內兩猴群所在樣點的距離<300者，僅留1群。

**-----------------------------------------------------------------**

**Trim**

Full model:

m1 <- trim( number ~ 樣點 + Year + Region , weights = "weight",df, model = 2, changepoints = "all", overdisp = F, serialcor = F, autodelete = T)

說明：  
1. 以樣點為單位。  
2. Region是依循BBS的 北部、東部、西部、中高海拔的劃分方式。  
3. 若該樣點自2020年至今皆未有猴群記錄，則該樣點不納入trim分析。

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Goodness of fit:  
 Chi-square = 780.62, df=788, p=0.5673  
 Likelihood Ratio = 883.63, df=788, p=0.0098  
 AIC (up to a constant) = -692.37

Wald test for significance of covariates

| Covariate | W | df | p |
| --- | --- | --- | --- |
| Region | 16.004 | 6 | 0.014 |

Wald test for significance of changes in slope

| Changepoint | Wald\_test | df | p |
| --- | --- | --- | --- |
| 2020 | 16.307 | 4 | 0.003 |
| 2021 | 4.917 | 4 | 0.296 |

Overall

| **from** | **upto** | **add** | **se\_add** | **mul** | **se\_mul** | **p** | **meaning** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2020 | 2022 | -0.0945 | 0.0538 | 0.9098 | 0.0490 | 0.3296 | Uncertain |

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