Data Summary

 



2015~2018年不同森林類型內各距離段所記錄的猴群數

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A (<25m) | B (25~100) | C (>100m) | 合計 |
| 闊葉林 | 70 | 57 | 8 | 135 |
| 針葉林 | 3 | 6 | 2 | 11 |
| 混淆林 | 8 | 13 | 3 | 24 |
| 竹林 | 6 | 11 | 0 | 17 |
| 非森林 | 2 | 3 | 1 | 6 |
| 合計 | 89 | 90 | 14 | 193 |

**#Include Macaca distance >100m**

Full model:

m1 <- glmer(Macaca\_sur ~ TypeName.1 + Year.re + Altitude + julian.D + Region + (1|Site\_N),

family = binomial, data = df)

Anova(m1)

Analysis of Deviance Table (Type II Wald chisquare tests)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Chisq | Df | Pr(>Chisq) |  |
| Year.re | 3.1948 | 1 | 0.07387 | . |
| TypeName.1 | 4.4844 | 3 | 0.21368 |  |
| Altitude | 3.7989 | 1 | 0.05129 | . |
| julian.D | 4.0995 | 1 | 0.0429 | \* |
| Region | 27.6756 | 3 | 4.25E-06 | \*\*\* |

summary(glht(m1, linfct = mcp(Region = "Tukey")))

Simultaneous Tests for General Linear Hypotheses

Multiple Comparisons of Means: Tukey Contrasts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Estimate | Std. Error | z value | Pr(>|z|) |  |
| East - Center == 0 | 1.8046 | 0.5108 | 3.533 | 0.00233 | \*\* |
| North - Center == 0 | -0.9552 | 0.5128 | -1.863 | 0.2431 |  |
| South - Center == 0 | 0.462 | 0.5819 | 0.794 | 0.85663 |  |
| North - East == 0 | -2.7598 | 0.5354 | -5.154 | < 0.001 | \*\*\* |
| South - East == 0 | -1.3426 | 0.5946 | -2.258 | 0.10759 |  |
| South - North == 0 | 1.4171 | 0.5975 | 2.372 | 0.08214 | . |

Model selection table

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (Int) | Alt | jln.D | Rgn | TyN.1 | Yer.re | df | logLik | AICc | delta | weight |
| -6.487 | 0.2787 | 0.1804 | + |  | 0.1228 | 8 | -811.866 | 1639.7 | 0 | 0.192 |
| -6.452 |  | 0.2093 | + |  | 0.1251 | 7 | -813.057 | 1640.1 | 0.38 | 0.159 |
| -6.274 | 0.2975 | 0.1834 | + |  |  | 7 | -813.397 | 1640.8 | 1.06 | 0.113 |
| -6.794 | 0.3788 | 0.1833 | + | + | 0.1239 | 11 | -809.592 | 1641.2 | 1.46 | 0.093 |
| -6.113 |  | 0.2098 | + |  |  | 6 | -814.608 | 1641.2 | 1.48 | 0.092 |
| -6.626 | 0.3802 |  | + |  | 0.1291 | 7 | -813.791 | 1641.6 | 1.85 | 0.076 |

> importance(d1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Region | julian.D | Year.re | Altitude | TypeName.1 |
| Sum of weights: | 1 | 0.78 | 0.63 | 0.63 | 0.29 |
| N containing models: | 16 | 16 | 16 | 16 | 16 |

**#exclude Macaca distance >100m**

Full model:

m1 <- glmer(Macaca\_sur ~ TypeName.1 + Year.re + Altitude + julian.D + Region + (1|Site\_N),

family = binomial, data = df)

> Anova(m1)

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> summary(glht(m1, linfct = mcp(Region = "Tukey")))

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| South - East == 0 | -1.3426 | 0.5946 | -2.258 | 0.10737 |  |
| South - North == 0 | 1.4171 | 0.5975 | 2.372 | 0.08216 | . |

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| -6.626 | 0.3802 |  | + |  | 0.1291 | 7 | -813.791 | 1641.6 | 1.85 | 0.076 |

importance(d1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Region | julian.D | Year.re | Altitude | TypeName.1 |
| Sum of weights: | 1 | 0.78 | 0.63 | 0.63 | 0.29 |
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**#Estimate**

##25m

Mean =

SD =

##100m

Mean =

SD =