**CHILE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Categories** | **Effects** | **Parameter** | | **Model 1** | **Model 2** | | **Model 3** | **Model 4** | **Model 5** | | **Model 6** | **Model 7** |
| Density | Fixed effects  (coefficients) | Intercept | | -47.235\*\*\*  (0.350) | -42.551\*\*\*  (0.384) | | -47.715\*\*\*  (1.773) | -47.234\*\*\*  (0.319) | -47.590\*\*\*  (1.328) | | -47.787\*\*\*  (1.371) | -47.794\*\*\*  (1.395) |
|  | Time | | 0.299\*\*\*  (0.005) | 0.299\*\*\*  (0.005) | | 0.299\*\*\*  (0.005) | 0.291\*\*\*  (0.028) | 0.296\*\*\*  (0.010) | | 0.308\*\*\*  (0.023) | 0.308\*\*\*  (0.022) |
|  | Time\*\*2 | |  |  | |  |  |  | | -1.105e-4  (1.923e-4) | -1.105e-4  (1.943e-4) |
|  | Origin | |  | -2.545  (0.115) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 3.902 |  | 2.883 | | 2.883 | 2.938 |
|  | Time (O) | |  |  | |  | 0.061 | 0.020 | | 0.020 | 0.017 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 3.18e-5 |
|  |  | AIC | | 19002.479 | 18555.411 | | 18474.086 | 18543.282 | 18463.737 | | 18465.407 | 18471.383 |
| RDI | Fixed effects (coefficients) | Intercept | | -36.432\*\*\*  (0.810) | -42.837\*\*\*  (0.775) | | -34.512\*\*\*  (4.279) | -36.432\*\*\*  (0.733) | -34.079\*\*\*  (5.215) | | -34.071  (NA) | -34.059 |
|  | Time | | 0.380\*\*\*  (0.013) | 0.380\*\*\*  (0.012) | | 0.380\*\*\*  (0.011) | 0.406\*\*\*  (0.058) | 0.372\*\*\*  (0.022) | | 0.372  (NA) | 0.372 |
|  | Time\*\*2 | |  |  | |  |  |  | | 4.03e-6  (NA) | 4.33e-6 |
|  | Origin | |  | 8.235\*\*\*  (0.445) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 7.314 |  | 8.949 | | 8.948 | 8.943 |
|  | Time (O) | |  |  | |  | 0.097 | 0.032 | | 0.032 | 0.032 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 6.39e-59 |
|  |  | AIC | | 7467.363 | 7176.815 | | 7167.298 | 7294.120 | 7164.824 | | 7166.823 | NA |
| \* p<0.1, \*\* p<0.05, \*\*\* p<0.01 | | |  | | |  | | | |  | | |