**CHILE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Categories** | **Effects** | **Parameter** | | **Model 1** | **Model 2** | | **Model 3** | **Model 4** | **Model 5** | | **Model 6** | **Model 7** |
| Density | Fixed effects  (coefficients) | Intercept | | -47.767\*\*\*  (0.674) | -37.296\*\*\*  (0.255) | | -47.767\*\*\*  (3.410) | -47.767\*\*\*  (0.264) | -47.767\*\*\*  (2.619) | | -47.957\*\*\*  (2.620) | -47.957\*\*\*  (NA) |
|  | Time | | 0.273\*\*\*  (0.011) | 0.273\*\*\*  (0.003) | | 0.273\*\*\*  (0.002) | 0.273\*\*\*  (0.053) | 0.273\*\*\*  (0.021) | | 0.285\*\*\*  (0.021) | 0.285\*\*\*  (NA) |
|  | Time\*\*2 | |  |  | |  |  |  | | -1.06e-4\*\*\*  (3.69e-5) | -1.06e-4  (NA) |
|  | Origin | |  | -5.236  (0.074) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 7.619 |  | 5.855 | | 5.855 | 5.943 |
|  | Time (O) | |  |  | |  | 0.119 | 0.047 | | 0.047 | 0.041 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 5.97e-9 |
|  |  | AIC | | 3650.326 | 2414.952 | | 2021.779 | 2698.585 | 1198.949 | | 1192.710 | 1196.079 |
| RDI | Fixed effects (coefficients) | Intercept | | -39.024\*\*\*  (1.290) | -53.033\*\*\*  (0.187) | | -39.024\*\*\*  (6.611) | -39.024\*\*\*  (0.529) | -39.024\*\*\*  (5.374) | | -39.105\*\*\*  (5.374) | -39.105\*\*\*  (5.444) |
|  | Time | | 0.305\*\*\*  (0.021) | 0.305\*\*\*  (0.003) | | 0.305\*\*\*  (0.002) | 0.305\*\*\*  (0.101) | 0.305\*\*\*  (0.024) | | 0.309\*\*\*  (0.024) | 0.309\*\*\*  (0.021) |
|  | Time\*\*2 | |  |  | |  |  |  | | -4.55e-5  (3.18e-5) | -4.55e-5  (4.88e-5) |
|  | Origin | |  | 14.009\*\*\*  (0.098) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 11.447 |  | 9.307 | | 9.307 | 9.419 |
|  | Time (O) | |  |  | |  | 0.175 | 0.041 | | 0.041 | 0.035 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 6.45e-5 |
|  |  | AIC | | 2440.041 | 1122.324 | | 1115.385 | 1899.930 | 462.786 | | 462.740 | NA |
| \* p<0.1, \*\* p<0.05, \*\*\* p<0.01 | | |  | | |  | | | |  | | |