**CHILE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Categories** | **Effects** | **Parameter** | | **Model 1** | **Model 2** | | **Model 3** | **Model 4** | **Model 5** | | **Model 6** | **Model 7** |
| Density | Fixed effects  (coefficients) | Intercept | | -47.063\*\*\*  (3.535) | -36.592\*\*\*  (1.098) | | -47.063\*\*\*  (3.483) | -47.063\*\*\*  (1.382) | -47.063\*\*\*  (2.638) | | -45.852\*\*\*  (2.334) | -45.852\*\*\*  (2.681) |
|  | Time | | 0.269\*\*\*  (0.024) | 0.269\*\*\*  (0.008) | | 0.269\*\*\*  (0.005) | 0.269\*\*\*  (0.054) | 0.269\*\*\*  (0.021) | | 0.290\*\*\*  (0.021) | 0.290\*\*\*  (0.019) |
|  | Time\*\*2 | |  |  | |  |  |  | | -3.07e-4\*\*\*  (4.88e-5) | -3.07e-4\*\*\*  (5.55e-4) |
|  | Stringency index | | -0.007  (0.033) | -0.007  (0.010) | | -0.007  (0.007) | -0.007  (0.013) | -0.007\*  (0.003) | | -0.024\*\*\*  (0.004) | -0.024\*\*\*  (0.004) |
|  | Origin | |  | -5.236\*\*\*  (0.074) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 7.619 |  | 5.855 | | 5.855 | 5.941 |
|  | Time (O) | |  |  | |  | 0.119 | 0.047 | | 0.047 | 0.041 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 5.95e-5 |
|  |  | AIC | | 3652.285 | 2416.517 | | 2022.789 | 2700.316 | 1195.831 | | 1159.762 | 1162.954 |
| RDI | Fixed effects (coefficients) | Intercept | | -38.775\*\*\*  (6.759) | -52.785\*\*\*  (0.838) | | -38.775\*\*\*  (6.656) | -38.775\*\*\*  (2.775) | -38.775\*\*\*  (5.380) | | -38.288\*\*\*  (5.383) | -38.288\*\*\*  (5.448) |
|  | Time | | 0.303\*\*\*  (0.047) | 0.303\*\*\*  (0.006) | | 0.303\*\*\*  (0.005) | 0.303\*\*\*  (0.103) | 0.303\*\*\*  (0.024) | | 0.311\*\*\*  (0.024) | 0.311\*\*\*  (0.021) |
|  | Time\*\*2 | |  |  | |  |  |  | | -1.23e-4\*\*\*  (4.30e-5) | -1.23e-4\*  (5.67e-5) |
|  | Stringency index | | -0.002  (0.063) | -0.002  (0.008) | | -0.002  (0.007) | -0.002  (0.026) | -0.002  (0.003) | | -0.009\*\*\*  (0.003) | -0.009\*\*\*  (0.003) |
|  | Origin | |  | 14.009\*\*\*  (0.098) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 11.447 |  | 9.307 | | 9.307 | 9.420 |
|  | Time (O) | |  |  | |  | 0.175 | 0.041 | | 0.041 | 0.035 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 6.45e-5 |
|  |  | AIC | | 2442.039 | 1142.231 | | 1117.282 | 1901.921 | 463.920 | | 457.807 | NA |
| \* p<0.1, \*\* p<0.05, \*\*\* p<0.01 | | |  | | |  | | | |  | | |