**CHILE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Categories** | **Effects** | **Parameter** | | **Model 1** | **Model 2** | | **Model 3** | **Model 4** | **Model 5** | | **Model 6** | **Model 7** |
| Density | Fixed effects  (coefficients) | Intercept | | -46.471\*\*\*  (1.832) | -41.787\*\*\*  (1.695) | | -46.951\*\*\*  (2.401) | -46.471\*\*\*  (1.671) | -46.826\*\*\*  (2.090) | | -45.546\*\*\*  (2.334) | -45.545\*\*\*  (2.334) |
|  | Time | | 0.294\*\*\*  (0.013) | 0.294\*\*\*  (0.012) | | 0.294\*\*\*  (0.011) | 0.286\*\*\*  (0.030) | 0.291\*\*\*  (0.014) | | 0.313\*\*\*  (0.023) | 0.313\*\*\*  (0.023) |
|  | Time\*\*2 | |  |  | |  |  |  | | -3.24e-4  (2.633e-4) | -3.241e-4  (2.632e-4) |
|  | Stringency index | | -0.007  (0.017) | -0.007  (0.016) | | -0.007  (0.015) | -0.007  (0.016) | -0.007  (0.015) | | -0.025  (0.021) | -0.025  (0.021) |
|  | Origin | |  | -2.545\*\*\*  (0.115) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 3.902 |  | 2.883 | | 2.883 | 2.883 |
|  | Time (O) | |  |  | |  | 0.061 | 0.020 | | 0.020 | 0.020 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 7.06e-4 |
|  |  | AIC | | 19004.299 | 18557.197 | | 18475.864 | 18545.065 | 18465.513 | | 18466.000 | NA |
| RDI | Fixed effects (coefficients) | Intercept | | -36.521\*\*\*  (4.246) | -42.926\*\*\*  (3.653) | | -34.601\*\*\*  (5.544) | -36.521\*\*\*  (3.843) | -34.166\*\*\*  (6.287) | | -34.685  (MA) | -34.265\*\*\*  (6.669) |
|  | Time | | 0.381\*\*\*  (0.029) | 0.381\*\*\*  (0.025) | | 0.381\*\*\*  (0.025)) | 0.406\*\*\*  (0.062) | 0.373\*\*\*  (0.031) | | 0.380  (NA) | 0.372\*\*\*  (0.050) |
|  | Time\*\*2 | |  |  | |  |  |  | | 2.12e-5  (NA) | 1.75e-5  (5.775e-4) |
|  | Stringency index | | 8.513e-4  (3.985e-2) | 8.517e-4  (3.413e-2) | | 8.500e-4  (3.370e-2) | 8.159e-4  (3.607e-2) | 8.370e-4  (3.358e-2) | | 0.002  (NA) | 2.040e-3  (4.599e-2) |
|  | Origin | |  | 8.235\*\*\*  (0.445) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 7.314 |  | 8.948 | | 7.314 | 8.917 |
|  | Time (O) | |  |  | |  | 0.097 | 0.032 | | 1.89e-9 | 0.030 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 1.76e-5 |
|  |  | AIC | | 7469.363 | 7178.815 | | 7169.297 | 7296.119 | 7166.823 | | 7175.296 | NA |
| \* p<0.1, \*\* p<0.05, \*\*\* p<0.01 | | |  | | |  | | | |  | | |