| **Component** | **Term** | **Estimate** | **Std Error** | **t-value** | **p-value** |  |
| --- | --- | --- | --- | --- | --- | --- |
| A. parametric coefficients | (Intercept) | 1.392 | 0.354 | 3.929 | 0.0001 | \*\*\* |
| lat | -0.026 | 0.008 | -3.239 | 0.0012 | \*\* |
| **Component** | **Term** | **edf** | **Ref. df** | **F-value** | **p-value** |  |
| B. smooth terms | s(lat):period1000 | 6.501 | 8.000 | 310.395 | 0.0000 | \*\*\* |
| s(lat):period2000 | 6.528 | 8.000 | 90.441 | 0.0000 | \*\*\* |
| s(lat):period3000 | 5.820 | 8.000 | 11.112 | 0.0000 | \*\*\* |
| s(lat):period4000 | 4.852 | 8.000 | 4.797 | 0.0006 | \*\*\* |
| s(lat):period5000 | 2.487 | 8.000 | 1.035 | 0.0370 | \* |
| s(lat):period6000 | 0.001 | 8.000 | 0.000 | 0.5796 |  |
| s(lat):period7000 | 3.646 | 8.000 | 2.580 | 0.0137 | \* |
| s(lat):period8000 | 6.256 | 8.000 | 18.861 | 0.0000 | \*\*\* |
| s(lat):period9000 | 2.335 | 8.000 | 1.078 | 0.0074 | \*\* |
| s(lat):period10000 | 5.227 | 8.000 | 9.602 | 0.0005 | \*\*\* |
| s(lat):period11000 | 4.415 | 8.000 | 5.170 | 0.0008 | \*\*\* |
| s(lat):period12000 | 5.950 | 8.000 | 18.526 | 0.0000 | \*\*\* |
| s(age) | 1.491 | 1.757 | 11.618 | 0.0018 | \*\* |
| s(age):period1000 | 1.501 | 6.000 | 3.209 | 0.0000 | \*\*\* |
| s(age):period2000 | 1.633 | 7.000 | 2.568 | 0.0001 | \*\*\* |
| s(age):period3000 | 1.952 | 7.000 | 2.361 | 0.0007 | \*\*\* |
| s(age):period4000 | 0.001 | 7.000 | 0.000 | 0.5644 |  |
| s(age):period5000 | 0.817 | 6.000 | 0.498 | 0.0628 | . |
| s(age):period6000 | 0.001 | 6.000 | 0.000 | 0.8042 |  |
| s(age):period7000 | 0.001 | 6.000 | 0.000 | 0.9674 |  |
| s(age):period8000 | 0.845 | 6.000 | 0.562 | 0.0695 | . |
| s(age):period9000 | 0.001 | 6.000 | 0.000 | 0.4653 |  |
| s(age):period10000 | 0.001 | 6.000 | 0.000 | 0.9531 |  |
| s(age):period11000 | 0.782 | 6.000 | 0.630 | 0.0423 | \* |
| s(age):period12000 | 0.003 | 5.000 | 0.000 | 0.3037 |  |
| s(dataset\_id) | 94.211 | 97.000 | 130.897 | 0.0000 | \*\*\* |
| s(period) | 0.001 | 11.000 | 0.000 | 0.8483 |  |
| ti(lat,age):period1000 | 4.087 | 4.606 | 0.982 | 0.4536 |  |
| ti(lat,age):period2000 | 2.851 | 3.337 | 0.046 | 0.9879 |  |
| ti(lat,age):period3000 | 2.087 | 2.292 | 0.630 | 0.4561 |  |
| ti(lat,age):period4000 | 2.289 | 2.528 | 1.503 | 0.1695 |  |
| ti(lat,age):period5000 | 1.003 | 1.004 | 0.091 | 0.7648 |  |
| ti(lat,age):period6000 | 2.114 | 2.377 | 2.462 | 0.0657 | . |
| ti(lat,age):period7000 | 1.554 | 1.700 | 1.584 | 0.2775 |  |
| ti(lat,age):period8000 | 2.659 | 3.282 | 0.085 | 0.9781 |  |
| ti(lat,age):period9000 | 4.064 | 4.879 | 2.520 | 0.0629 | . |
| ti(lat,age):period10000 | 1.661 | 1.843 | 0.861 | 0.3152 |  |
| ti(lat,age):period11000 | 1.002 | 1.003 | 0.213 | 0.6451 |  |
| ti(lat,age):period12000 | 1.002 | 1.003 | 0.215 | 0.6437 |  |
| Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05 | | | | | | |
|  | | | | | | |
| Adjusted R-squared: 0.745, Deviance explained 0.753 | | | | | | |
| -REML : 5669.181, Scale est: 0.471, N: 6557 | | | | | | |