| **Component** | **Term** | **Estimate** | **Std Error** | **t-value** | **p-value** |  |
| --- | --- | --- | --- | --- | --- | --- |
| A. parametric coefficients | (Intercept) | 1.392 | 0.354 | 3.926 | 0.0001 | \*\*\* |
| lat | -0.026 | 0.008 | -3.229 | 0.0013 | \*\* |
| **Component** | **Term** | **edf** | **Ref. df** | **F-value** | **p-value** |  |
| B. smooth terms | s(lat):period1000 | 6.477 | 8.000 | 311.904 | 0.0000 | \*\*\* |
| s(lat):period2000 | 6.543 | 8.000 | 91.511 | 0.0000 | \*\*\* |
| s(lat):period3000 | 5.829 | 8.000 | 11.234 | 0.0000 | \*\*\* |
| s(lat):period4000 | 4.920 | 8.000 | 5.045 | 0.0005 | \*\*\* |
| s(lat):period5000 | 2.592 | 8.000 | 1.131 | 0.0319 | \* |
| s(lat):period6000 | 0.000 | 8.000 | 0.000 | 0.5375 |  |
| s(lat):period7000 | 3.748 | 8.000 | 2.790 | 0.0105 | \* |
| s(lat):period8000 | 6.245 | 8.000 | 18.586 | 0.0000 | \*\*\* |
| s(lat):period9000 | 2.267 | 8.000 | 1.006 | 0.0082 | \*\* |
| s(lat):period10000 | 5.232 | 8.000 | 9.621 | 0.0006 | \*\*\* |
| s(lat):period11000 | 4.385 | 8.000 | 4.974 | 0.0011 | \*\* |
| s(lat):period12000 | 5.922 | 8.000 | 18.154 | 0.0000 | \*\*\* |
| s(age) | 1.532 | 1.813 | 11.385 | 0.0013 | \*\* |
| s(age):period1000 | 1.485 | 6.000 | 2.908 | 0.0000 | \*\*\* |
| s(age):period2000 | 1.598 | 7.000 | 2.329 | 0.0001 | \*\*\* |
| s(age):period3000 | 1.953 | 7.000 | 2.305 | 0.0007 | \*\*\* |
| s(age):period4000 | 0.000 | 7.000 | 0.000 | 0.5596 |  |
| s(age):period5000 | 0.864 | 6.000 | 0.582 | 0.0496 | \* |
| s(age):period6000 | 0.000 | 6.000 | 0.000 | 0.8349 |  |
| s(age):period7000 | 0.000 | 6.000 | 0.000 | 0.9536 |  |
| s(age):period8000 | 0.892 | 6.000 | 0.648 | 0.0571 | . |
| s(age):period9000 | 0.000 | 6.000 | 0.000 | 0.4622 |  |
| s(age):period10000 | 0.000 | 6.000 | 0.000 | 0.9575 |  |
| s(age):period11000 | 0.777 | 6.000 | 0.616 | 0.0438 | \* |
| s(age):period12000 | 0.001 | 5.000 | 0.000 | 0.3240 |  |
| s(dataset\_id) | 94.202 | 97.000 | 130.817 | 0.0000 | \*\*\* |
| s(period) | 0.000 | 11.000 | 0.000 | 0.8562 |  |
| ti(lat,age):period1000 | 4.164 | 4.680 | 1.267 | 0.3068 |  |
| ti(lat,age):period2000 | 2.845 | 3.334 | 0.053 | 0.9871 |  |
| ti(lat,age):period3000 | 2.087 | 2.293 | 0.627 | 0.4564 |  |
| ti(lat,age):period4000 | 2.318 | 2.558 | 1.582 | 0.1521 |  |
| ti(lat,age):period5000 | 1.000 | 1.001 | 0.068 | 0.7951 |  |
| ti(lat,age):period6000 | 2.113 | 2.374 | 2.410 | 0.0692 | . |
| ti(lat,age):period7000 | 1.500 | 1.645 | 1.425 | 0.3317 |  |
| ti(lat,age):period8000 | 2.652 | 3.274 | 0.088 | 0.9776 |  |
| ti(lat,age):period9000 | 3.960 | 4.770 | 1.706 | 0.0803 | . |
| ti(lat,age):period10000 | 1.664 | 1.845 | 0.869 | 0.3126 |  |
| ti(lat,age):period11000 | 1.000 | 1.000 | 0.209 | 0.6477 |  |
| ti(lat,age):period12000 | 1.000 | 1.001 | 0.232 | 0.6301 |  |
| Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05 | | | | | | |
|  | | | | | | |
| Adjusted R-squared: 0.745, Deviance explained 0.753 | | | | | | |
| -REML : 5669.254, Scale est: 0.471, N: 6557 | | | | | | |