| **Component** | **Term** | **Estimate** | **Std Error** | **t-value** | **p-value** |  |
| --- | --- | --- | --- | --- | --- | --- |
| A. parametric coefficients | (Intercept) | 2.013 | 0.381 | 5.284 | 0.0000 | \*\*\* |
| lat | -0.034 | 0.009 | -3.881 | 0.0001 | \*\*\* |
| **Component** | **Term** | **edf** | **Ref. df** | **F-value** | **p-value** |  |
| B. smooth terms | s(lat):period1000 | 6.098 | 8.000 | 171.391 | 0.0000 | \*\*\* |
| s(lat):period2000 | 6.387 | 8.000 | 72.925 | 0.0000 | \*\*\* |
| s(lat):period3000 | 0.002 | 8.000 | 0.000 | 0.2681 |  |
| s(lat):period4000 | 0.000 | 8.000 | 0.000 | 0.3400 |  |
| s(lat):period5000 | 0.001 | 8.000 | 0.000 | 0.3366 |  |
| s(lat):period6000 | 6.785 | 8.000 | 11.188 | 0.0001 | \*\*\* |
| s(lat):period7000 | 5.889 | 8.000 | 15.370 | 0.0000 | \*\*\* |
| s(lat):period8000 | 7.011 | 8.000 | 39.835 | 0.0000 | \*\*\* |
| s(lat):period9000 | 3.768 | 8.000 | 2.916 | 0.0057 | \*\* |
| s(lat):period10000 | 7.081 | 8.000 | 64.264 | 0.0000 | \*\*\* |
| s(lat):period11000 | 4.170 | 8.000 | 4.534 | 0.0037 | \*\* |
| s(lat):period12000 | 2.804 | 8.000 | 1.939 | 0.0832 | . |
| s(age) | 6.300 | 7.321 | 31.664 | 0.0000 | \*\*\* |
| s(age):period1000 | 0.000 | 6.000 | 0.000 | 0.7257 |  |
| s(age):period2000 | 0.000 | 6.000 | 0.000 | 0.7388 |  |
| s(age):period3000 | 0.512 | 6.000 | 0.190 | 0.1211 |  |
| s(age):period4000 | 0.000 | 7.000 | 0.000 | 0.5114 |  |
| s(age):period5000 | 0.000 | 6.000 | 0.000 | 0.3848 |  |
| s(age):period6000 | 0.892 | 7.000 | 0.542 | 0.0376 | \* |
| s(age):period7000 | 0.000 | 6.000 | 0.000 | 0.6971 |  |
| s(age):period8000 | 0.000 | 6.000 | 0.000 | 0.8752 |  |
| s(age):period9000 | 2.714 | 7.000 | 2.923 | 0.0005 | \*\*\* |
| s(age):period10000 | 0.000 | 6.000 | 0.000 | 0.6594 |  |
| s(age):period11000 | 0.000 | 6.000 | 0.000 | 0.2983 |  |
| s(age):period12000 | 0.677 | 5.000 | 0.476 | 0.0454 | \* |
| s(dataset\_id) | 94.787 | 97.000 | 159.779 | 0.0000 | \*\*\* |
| s(period) | 0.000 | 11.000 | 0.000 | 0.7502 |  |
| ti(lat,age):period1000 | 4.859 | 5.266 | 4.223 | 0.0003 | \*\*\* |
| ti(lat,age):period2000 | 1.000 | 1.000 | 0.660 | 0.4167 |  |
| ti(lat,age):period3000 | 2.340 | 2.905 | 1.602 | 0.1513 |  |
| ti(lat,age):period4000 | 5.081 | 6.309 | 2.952 | 0.0096 | \*\* |
| ti(lat,age):period5000 | 1.001 | 1.002 | 1.043 | 0.3058 |  |
| ti(lat,age):period6000 | 1.713 | 2.100 | 0.980 | 0.3338 |  |
| ti(lat,age):period7000 | 1.003 | 1.005 | 9.903 | 0.0016 | \*\* |
| ti(lat,age):period8000 | 1.000 | 1.001 | 0.255 | 0.6140 |  |
| ti(lat,age):period9000 | 5.803 | 6.550 | 3.356 | 0.0014 | \*\* |
| ti(lat,age):period10000 | 1.000 | 1.000 | 0.108 | 0.7425 |  |
| ti(lat,age):period11000 | 1.001 | 1.001 | 4.007 | 0.0452 | \* |
| ti(lat,age):period12000 | 1.000 | 1.001 | 1.496 | 0.2213 |  |
| Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05 | | | | | | |
|  | | | | | | |
| Adjusted R-squared: 0.759, Deviance explained 0.768 | | | | | | |
| -REML : 5197.182, Scale est: 0.406, N: 6557 | | | | | | |