| **Component** | **Term** | **Estimate** | **Std Error** | **t-value** | **p-value** |  |
| --- | --- | --- | --- | --- | --- | --- |
| A. parametric coefficients | (Intercept) | 2.008 | 0.380 | 5.279 | 0.0000 | \*\*\* |
| lat | -0.034 | 0.009 | -3.873 | 0.0001 | \*\*\* |
| **Component** | **Term** | **edf** | **Ref. df** | **F-value** | **p-value** |  |
| B. smooth terms | s(lat):period1000 | 6.079 | 8.000 | 168.662 | 0.0000 | \*\*\* |
| s(lat):period2000 | 6.407 | 8.000 | 73.831 | 0.0000 | \*\*\* |
| s(lat):period3000 | 0.003 | 8.000 | 0.000 | 0.2831 |  |
| s(lat):period4000 | 0.000 | 8.000 | 0.000 | 0.3309 |  |
| s(lat):period5000 | 0.002 | 8.000 | 0.000 | 0.3767 |  |
| s(lat):period6000 | 6.793 | 8.000 | 11.467 | 0.0001 | \*\*\* |
| s(lat):period7000 | 5.924 | 8.000 | 16.109 | 0.0000 | \*\*\* |
| s(lat):period8000 | 7.038 | 8.000 | 40.705 | 0.0000 | \*\*\* |
| s(lat):period9000 | 3.832 | 8.000 | 3.089 | 0.0046 | \*\* |
| s(lat):period10000 | 7.076 | 8.000 | 64.146 | 0.0000 | \*\*\* |
| s(lat):period11000 | 4.276 | 8.000 | 4.908 | 0.0027 | \*\* |
| s(lat):period12000 | 2.978 | 8.000 | 2.256 | 0.0669 | . |
| s(age) | 6.300 | 7.320 | 31.633 | 0.0000 | \*\*\* |
| s(age):period1000 | 0.000 | 6.000 | 0.000 | 0.7475 |  |
| s(age):period2000 | 0.000 | 6.000 | 0.000 | 0.7171 |  |
| s(age):period3000 | 0.495 | 6.000 | 0.178 | 0.1261 |  |
| s(age):period4000 | 0.000 | 7.000 | 0.000 | 0.5277 |  |
| s(age):period5000 | 0.000 | 6.000 | 0.000 | 0.3740 |  |
| s(age):period6000 | 0.867 | 7.000 | 0.501 | 0.0428 | \* |
| s(age):period7000 | 0.000 | 6.000 | 0.000 | 0.6982 |  |
| s(age):period8000 | 0.000 | 6.000 | 0.000 | 0.8753 |  |
| s(age):period9000 | 2.709 | 7.000 | 2.909 | 0.0005 | \*\*\* |
| s(age):period10000 | 0.000 | 6.000 | 0.000 | 0.6591 |  |
| s(age):period11000 | 0.000 | 6.000 | 0.000 | 0.2994 |  |
| s(age):period12000 | 0.664 | 5.000 | 0.449 | 0.0489 | \* |
| s(dataset\_id) | 94.787 | 97.000 | 159.879 | 0.0000 | \*\*\* |
| s(period) | 0.000 | 11.000 | 0.000 | 0.7442 |  |
| ti(lat,age):period1000 | 4.808 | 5.214 | 4.154 | 0.0004 | \*\*\* |
| ti(lat,age):period2000 | 1.000 | 1.000 | 0.780 | 0.3771 |  |
| ti(lat,age):period3000 | 2.260 | 2.796 | 1.501 | 0.1630 |  |
| ti(lat,age):period4000 | 4.991 | 6.227 | 2.833 | 0.0123 | \* |
| ti(lat,age):period5000 | 1.001 | 1.002 | 0.974 | 0.3226 |  |
| ti(lat,age):period6000 | 1.664 | 2.038 | 1.107 | 0.3084 |  |
| ti(lat,age):period7000 | 1.001 | 1.001 | 9.953 | 0.0016 | \*\* |
| ti(lat,age):period8000 | 1.000 | 1.000 | 0.319 | 0.5724 |  |
| ti(lat,age):period9000 | 5.813 | 6.555 | 3.470 | 0.0011 | \*\* |
| ti(lat,age):period10000 | 1.000 | 1.000 | 0.097 | 0.7559 |  |
| ti(lat,age):period11000 | 1.001 | 1.002 | 3.870 | 0.0490 | \* |
| ti(lat,age):period12000 | 1.000 | 1.001 | 1.374 | 0.2411 |  |
| Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05 | | | | | | |
|  | | | | | | |
| Adjusted R-squared: 0.759, Deviance explained 0.768 | | | | | | |
| -REML : 5190.986, Scale est: 0.405, N: 6557 | | | | | | |