|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 1 | Lambda 1 vs. Peak spawning age (mode) | | | | | |
|  |  | estimate | std.error | t value | p.value | sig |
| k = 0 | (Intercept) | 0 | 0 | NA | NA |  |
| k = 0.2 | (Intercept) | 0.604294 | 0.06107 | 9.895182 | 5.74E-08 | \*\*\* |
|  | slope | 0.036534 | 0.010056 | 3.63317 | 0.002453026 |  |
| k = 0.5 | (Intercept) | 0.796049 | 0.072246 | 11.01863 | 1.37E-08 | \*\*\* |
|  | slope | 0.024517 | 0.011896 | 2.060905 | 0.057092437 | \*\* |
| k = 0.8 | (Intercept) | 0.925697 | 0.081444 | 11.36612 | 9.04E-09 | \*\*\* |
|  | slope | 0.015182 | 0.013411 | 1.132086 | 0.275372139 | \*\* |
| k = 1 | (Intercept) | 0.996873 | 0.08695 | 11.46492 | 8.04E-09 | \*\*\* |
|  | slope | 0.009744 | 0.014317 | 0.680552 | 0.506525004 | \*\* |
|  |  |  |  |  |  |  |
| Table 2 | Mean of lambda 1 values vs k | | | | | |
|  |  | estimate | std.error | t value | p.value | sig |
|  | (Intercept) | 0.331737 | 0.219801 | 1.509261 | 0.228372701 | \*\* |
|  | slope | 0.86192 | 0.353783 | 2.436298 | 0.092806372 | \*\* |
|  |  |  |  |  |  |  |
| Table 3 | Standard deviation vs k | | | | | |
|  |  | estimate | std.error | t value | p.value | sig |
|  | (Intercept) | 0.047901 | 0.031742 | 1.50908 | 0.228415603 | \*\* |
|  | slope | 0.089418 | 0.05109 | 1.750196 | 0.178390144 | \*\* |
|  |  |  |  |  |  |  |
| Table 4 | Damping ratio (lambda2/lambda1) vs CV of spawning biomass distribution | | | | | |
|  |  | estimate | std.error | t value | p.value | sig |
| k = 0 | (Intercept) | 0 | 0 | NA | NA |  |
| k = 0.2 | (Intercept) | 0.995131 | 0.052153 | 19.08113 | 6.23E-12 | \*\*\* |
|  | slope | -0.40233 | 0.11993 | -3.35469 | 0.004343356 |  |
| k = 0.5 | (Intercept) | 1.002068 | 0.062504 | 16.03198 | 7.56E-11 | \*\*\* |
|  | slope | -0.52027 | 0.143735 | -3.61965 | 0.002521952 |  |
| k = 0.8 | (Intercept) | 1.002088 | 0.065108 | 15.39127 | 1.35E-10 | \*\*\* |
|  | slope | -0.56971 | 0.149721 | -3.80511 | 0.001725103 |  |
| k = 1 | (Intercept) | 1.001879 | 0.066103 | 15.15632 | 1.68E-10 | \*\*\* |
|  | slope | -0.59337 | 0.15201 | -3.9035 | 0.001411111 |  |
|  |  |  |  |  |  |  |
| Table 5 | CV vs STDEV in the spawning biomass distribution | | | | | |
|  |  | estimate | std.error | t value | p.value | sig |
| k = 0 | (Intercept) | 0 | 0 | NA | NA |  |
| k = 0.2 | (Intercept) | 0.349383 | 0.134189 | 2.603669 | 0.019952732 | \*\* |
|  | slope | 0.030324 | 0.060463 | 0.501531 | 0.62327826 | \*\* |
| k = 0.5 | (Intercept) | 0.349383 | 0.134189 | 2.603669 | 0.019952732 | \*\* |
|  | slope | 0.030324 | 0.060463 | 0.501531 | 0.62327826 | \*\* |
| k = 0.8 | (Intercept) | 0.349383 | 0.134189 | 2.603669 | 0.019952732 | \*\* |
|  | slope | 0.030324 | 0.060463 | 0.501531 | 0.62327826 | \*\* |
| k = 1 | (Intercept) | 0.349383 | 0.134189 | 2.603669 | 0.019952732 | \*\* |
|  | slope | 0.030324 | 0.060463 | 0.501531 | 0.62327826 | \*\* |