|  |  |  |  |
| --- | --- | --- | --- |
| **Table S1.** Sensitive for the degrees of freedom set for relative humadity and temperature.  |  |  |  |
| 　 | 　 | Lag 0 | Lag 1 | Lag 2 | Lag 3  | Lag 0-1 | Lag 0-2 | Lag 0-3 |
| NO2 |  |  |  |  |  |  |  |  |
| df for relative humidity | df for temperature |  |  |  |  |  |  |  |
| 2 | 5 | 0.995(0.923,1.072) | 1.123(1.037,1.216) | 0.976(0.903,1.056) | 1.001(0.934,1.074) | 1.117(1.027,1.216) | 1.091(0.998,1.193) | 1.093(1.006,1.187) |
| 2 | 6 | 0.995(0.923,1.073) | 1.125(1.039,1.219) | 0.975(0.901,1.055) | 1.000(0.933,1.072) | 1.120(1.028,1.219) | 1.092(0.998,1.194) | 1.092(1.005,1.186) |
| 2 | 7 | 0.992(0.920,1.070) | 1.128(1.041,1.222) | 0.971(0.897,1.051) | 1.003(0.935,1.076) | 1.120(1.028,1.219) | 1.087(0.993,1.189) | 1.090(1.003,1.185) |
| 3 | 5 | 0.995(0.923,1.072) | 1.123(1.037,1.216) | 0.976(0.903,1.056) | 1.001(0.934,1.074) | 1.117(1.027,1.216) | 1.091(0.998,1.193) | 1.093(1.006,1.187) |
| 3 | 6 | 0.995(0.923,1.073) | 1.125(1.039,1.219) | 0.975(0.901,1.055) | 1.000(0.933,1.072) | 1.120(1.028,1.219) | 1.092(0.998,1.194) | 1.092(1.005,1.186) |
| 3 | 7 | 0.992(0.920,1.070) | 1.128(1.041,1.222) | 0.971(0.897,1.051) | 1.003(0.935,1.076) | 1.120(1.028,1.219) | 1.087(0.993,1.189) | 1.090(1.003,1.185) |
| 4 | 5 | 0.995(0.923,1.072) | 1.123(1.037,1.216) | 0.976(0.903,1.056) | 1.001(0.934,1.074) | 1.117(1.027,1.216) | 1.091(0.998,1.193) | 1.093(1.006,1.187) |
| 4 | 6 | 0.995(0.923,1.073) | 1.125(1.039,1.219) | 0.975(0.901,1.055) | 1.000(0.933,1.072) | 1.120(1.028,1.219) | 1.092(0.998,1.194) | 1.092(1.005,1.186) |
| 4 | 7 | 0.992(0.920,1.070) | 1.128(1.041,1.222) | 0.971(0.897,1.051) | 1.003(0.935,1.076) | 1.120(1.028,1.219) | 1.087(0.993,1.189) | 1.090(1.003,1.185) |
| **df** degree of freedom |  |  |  |  |  |  |