**Where and when? How phenological patterns of armyworm moths (Lepidoptera: Noctuidae) change along a latitudinal gradient in Brazil**

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**Supplementary table 2** Synchrony between the period of occurrence of *Spodoptera* species and the period of occurrence of the crops. Numbers beside localities discriminate trap sites. V: Test V (V; expected mean), (u): Test V (u). Hyphen (-) indicates absence of treatment at locality

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Locality | Soybean | | | Corn (additional season) | | | Corn (regular season) | | | Wheat | | | Sorghum | | | Pasture | | |
| V | (u) | *p* | V | (u) | *p* | V | (u) | *p* | V | (u) | *p* | V | (u) | *p* | V | (u) | *p* |
| ***S*. *albula*** | Mojuí dos Campos | 0.86 | 13.18 | \*\*\* | - | - | - | -0.63 | -9.7 | n.s | - | - | - | - | - | - | - | - | - |
| Rio Branco 1 | 0.31 | 1.32 | n.s | 0.53 | 2.26 | \* | 0.31 | 1.32 | n.s. | - | - | - | - | - | - | - | - | - |
| Planaltina 1 | -0.11 | -1.03 | n.s | - | - | - | -0.11 | -1.03 | n.s | - | - | - | - | - | - | -0.25 | -2.39 | n.s |
| Planaltina 2 | -0.44 | -4.01 | n.s | - | - | - | - | - | - | - | - | - | - | - | - | -0.57 | -5.24 | n.s |
| Uberaba 1 | -0.45 | -4.55 | n.s | - | - | - | -0.45 | -4.55 | n.s | - | - | - | -0.45 | -4.55 | n.s | - | - | - |
| Uberaba 2 | -0.08 | -0.42 | n.s | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Londrina 1 | -0.46 | -3.77 | n.s | - | - | - | - | - | - | 0.46 | 3.8 | \*\*\* | - | - | - | 0.28 | 2.35 | \*\* |
| Londrina 2 | -0.85 | -5.25 | n.s | - | - | - | 0.86 | 5.33 | \*\*\* | - | - | - | - | - | - | 0.66 | 4.05 | \*\*\* |
| ***S*. *cosmioides*** | Mojuí dos Campos 2 | 0.9 | 8.77 | \*\*\* | - | - | - | -0.34 | -3.24 | n.s. | - | - | - | - | - | - | - | - | - |
| Rio Branco 1 | -0.01 | -0.23 | n.s. | 0.53 | 11.36 | \*\*\* | -0.01 | -0.23 | n.s. | - | - | - | - | - | - | - | - | - |
| Planaltina 1 | 0.24 | 1.23 | n.s. | - | - | - | 0.24 | 1.23 | n.s | - | - | - | - | - | - | 0.1 | 0.51 | n.s |
| Planaltina 2 | 0.18 | 1.05 | n.s. | - | - | - | - | - | - | - | - | - | - | - | - | 0.03 | 0.17 | n.s |
| Uberaba 1 | -0.18 | -1.38 | n.s. | - | - | - | -0.18 | -1.38 | n.s. | - | - | - | -0.18 | -1.38 | n.s. | - | - | - |
| Londrina 1 | 0.43 | 4.57 | \*\*\* | - | - | - | - | - | - | -0.44 | -4.61 | n.s. | - | - | - | 0.34 | < 0.005 | n.s. |
| Londrina 2 | -0.27 | -2.03 | n.s. | - | - | - | 0.33 | 2.49 | \*\* | - | - | - | - | - | - | 0.09 | < 0.025 | n.s. |
| Passo Fundo 1 | 0.45 | 4.57 | \*\*\* | - | - | - | 0.45 | 4.57 | \*\*\* | -0.08 | -0.83 | n.s. | -0.44 | -4.44 | n.s. | -0.44 | -4.44 | n.s. |
| Passo Fundo 2 | 0.45 | 3.68 | \*\*\* | - | - | - | 0.45 | 3.68 | \*\*\* | -0.52 | -4.23 | n.s. | 0.16 | 1.32 | n.s. | 0.16 | 1.32 | n.s. |
| Bagé 1 | 0.68 | 3.17 | \*\*\* | - | - | - | - | - | - | - | - | - | 0.68 | 3.17 | \*\*\* | - | - | - |
| Bagé 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0.57 | 2.88 | \*\* | - | - | - |
| ***S. frugiperda*** | Mojuí dos Campos 2 | 0.34 | 5.45 | \*\*\* | - | - | - | -0.46 | -7.3 | n.s. | - | - | - | - | - | - | - | - | - |
| Rio Branco 1 | 0.16 | 5.44 | \*\*\* | 0.34 | 11.63 | \*\*\* | 0.16 | 5.44 | \*\*\* | - | - | - | - | - | - | - | - | - |
| Planaltina 1 | 0.56 | 10.52 | \*\*\* | - | - | - | 0.56 | 10.52 | \*\*\* | - | - | - | - | - | - | 0.59 | 10.97 | \*\*\* |
| Planaltina 2 | 0.44 | 8.55 | \*\*\* | - | - | - | - | - | - | - | - | - | - | - | - | 0.44 | 8.5 | \*\*\* |
| Uberaba 1 | -0.1 | -1.12 | n.s. | - | - | - | -0.1 | -1.12 | n.s. | - | - | - | -0.1 | -1.12 | n.s. | - | - | - |
| Uberaba 2 | -0.21 | -2.75 | n.s. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Londrina 1 | -0.1 | -3.05 | n.s. | - | - | - | - | - | - | 0.09 | 2.89 | \*\* | - | - | - | 0.28 | 9.03 | \*\*\* |
| Londrina 2 | -0.27 | -2.03 | n.s. | - | - | - | 0.36 | 8.7 | \*\*\* | - | - | - | - | - | - | 0.34 | 8.31 | \*\*\* |
| Passo Fundo 1 | 0.51 | 6.55 | \*\*\* | - | - | - | 0.51 | 6.55 | \*\*\* | -0.58 | -7.55 | n.s. | 0.19 | 2.39 | \*\* | 0.19 | 2.39 | \*\* |
| Passo Fundo 2 | 0.7 | 21.14 | \*\*\* | - | - | - | 0.7 | 21.14 | \*\*\* | -0.73 | -22.08 | n.s. | 0.15 | 4.55 | \*\*\* | 0.15 | 4.55 | \*\*\* |
| Bagé 1 | 0.76 | 8.56 | \*\*\* | - | - | - | - | - | - | - | - | - | 0.76 | 8.56 | \*\*\* | - | - | - |
| Bagé 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0.76 | 8.56 | \*\*\* | - | - | - |

\*\*\* <0.01, \*\* <0.01 significant values