**Fig. S1.** Suitability maps of current condition of *Tityus* species in South America.



**Table S1.** Correlation of suitability maps from the future projections from different General Circulation Models (CCSM4, GISSE2-R and MIROC5) for the *Tityus* species analized*.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Tityus\_argentinus\_CCSM4 | Tityus\_argentinus\_GSSE2.R | Tityus\_argentinus\_MIROC5 |
| Tityus\_argentinus\_CCSM4 | 1 | 0.8609838 | 0.9025809 |
| Tityus\_argentinus\_GSSE2.R | 0.8609838 | 1 | 0.8647315 |
| Tityus\_argentinus\_MIROC5 | 0.9025809 | 0.8647315 | 1 |
|  |  |  |  |
|  | Tityus\_bahiensis\_CCSM4 | Tityus\_bahiensis\_GISEEE2.R | Tityus\_bahiensis\_MIROC5 |
| Tityus\_bahiensis\_CCSM4 | 1 | 0.9470718 | 0.9427578 |
| Tityus\_bahiensis\_GISEEE2.R | 0.9470718 | 1 | 0.9745329 |
| Tityus\_bahiensis\_MIROC5 | 0.9427578 | 0.9745329 | 1 |
|  |  |  |  |
|  | Tityus\_confluens\_CCSM4 | Tityus\_confluens\_GSSE2.R | Tityus\_confluens\_MIROC5 |
| Tityus\_confluens\_CCSM4 | 1 | 0.9649183 | 0.9700771 |
| Tityus\_confluens\_GSSE2.R | 0.9649183 | 1 | 0.9910729 |
| Tityus\_confluens\_MIROC5 | 0.9700771 | 0.9910729 | 1 |
|  |  |  |  |
|  | Tityus\_serrulatus\_CCSM4 | Tityus\_serrulatus\_GSSE2.R | Tityus\_serrulatus\_MIROC5 |
| Tityus\_serrulatus\_CCSM4 | 1 | 0.9405655 | 0.9543062 |
| Tityus\_serrulatus\_GSSE2.R | 0.9405655 | 1 | 0.9446797 |
| Tityus\_serrulatus\_MIROC5 | 0.9543062 | 0.9446797 | 1 |
|  |  |  |  |
|  | Tityus\_trivittatus\_CCSM4 | Tityus\_trivittatus\_GSSE2.R | Tityus\_trivittatus\_MIROC5 |
| Tityus\_trivittatus\_CCSM4 | 1 | 0.9140744 | 0.9080750 |
| Tityus\_trivittatus\_GSSE2.R | 0.9140744 | 1 | 0.8567062 |
| Tityus\_trivittatus\_MIROC5 | 0.9080750 | 0.8567062 | 1 |