

## Ecography

E4818

Escobar, F., Halffter, G. and Arellano, L. 2007. From forest to pasture: an evaluating of the influence of environment and biogeography on the structure of dung beetle (Scarabaeinae) assemblages along three altitudinal gradients in the Neotropical region. – *Ecography* 30: 193–208.



|                               |    |    |
|-------------------------------|----|----|
|                               | 9  | 9  |
| 38. <i>Scatinus ovatus</i>    | 21 | 21 |
| 39. <i>Sisypbus mexicanus</i> | 45 | 45 |
| 40. <i>Uroxys bonetti</i>     |    |    |

|   | 50 |     | 520 |    | 1000 <sup>c</sup> |   | 1350 |   | 1800 |   | 2600 |   | 3300 |   |     |
|---|----|-----|-----|----|-------------------|---|------|---|------|---|------|---|------|---|-----|
|   | F  | P   | F   | P  | F                 | P | F    | P | F    | P | F    | P | F    | P |     |
| Chiles Volcano (Colombia)               |    |     |     |    |                   |   |      |   |      |   |      |   |      |   |     |
| 1. <i>Canthidium aurifex</i>            | 3  |     |     |    |                   |   |      |   |      |   |      |   |      |   | 3   |
| 2. <i>Canthidium haroldi</i>            | 1  | 119 |     |    | 1                 |   |      |   |      |   |      |   |      |   | 1   |
| 3. <i>Canthon</i> sp. 1                 |    | 1   |     |    |                   |   |      |   |      |   |      |   |      |   | 119 |
| 4. <i>Canthon</i> sp. 2                 |    | 1   |     |    |                   |   |      |   |      |   |      |   |      |   | 1   |
| 5. <i>Canthon</i> sp. 3                 |    | 1   | 2   |    |                   |   |      |   |      |   |      |   |      |   | 2   |
| 6. <i>Copris incertus</i>               | 2  |     | 2   | 2  |                   |   |      |   |      |   |      |   |      |   | 4   |
| 7. <i>Coprophanaeus telamon</i>         |    |     | 1   | 2  |                   |   | 4    |   |      |   |      |   |      |   | 2   |
| 8. <i>Deltochilum gibbosum</i>          | 8  |     | 4   | 1  |                   |   |      |   |      |   |      |   |      |   | 2   |
| 9. <i>Deltochilum mexicanum</i>         |    |     |     |    | 17                |   | 19   |   |      |   |      |   |      |   | 12  |
| 10. <i>Deltochilum</i> sp.              |    |     | 2   |    | 29                |   | 10   |   |      |   |      |   |      |   | 36  |
| 11. <i>Deltochilum spinipes</i>         |    |     |     |    | 2                 |   | 153  | 4 | 41   |   |      |   |      |   | 41  |
| 12. <i>Dichotomius spinipes</i>         | 23 | 12  |     |    |                   |   |      |   |      |   |      |   |      |   | 196 |
| 13. <i>Dichotomius globosus</i>         |    |     |     |    |                   |   |      |   |      | 7 | 1    |   |      |   | 23  |
| 14. <i>Dichotomius quinqueclens</i>     |    |     |     |    | 42                |   | 22   | 3 | 13   | 1 |      |   |      |   | 7   |
| 15. <i>Dichotomius satanas</i>          | 36 | 1   | 30  | 11 |                   |   |      |   |      |   |      |   |      |   | 143 |
| 16. <i>Dichotomius foedus</i>           |    |     | 5   | 1  |                   |   |      |   |      |   |      |   |      |   | 5   |
| 17. <i>Eurysternus foedus</i>           | 15 | 11  |     |    |                   |   |      |   |      |   |      |   |      |   | 15  |
| 18. <i>Eurysternus claudicans</i>       |    |     |     |    |                   |   |      |   |      |   |      |   |      |   | 5   |
| 19. <i>Eurysternus marmoratus</i>       |    |     |     |    | 2                 |   | 4    | 1 | 1    | 3 | 1    |   |      |   | 7   |
| 20. <i>Eurysternus plebejus</i>         | 2  | 2   |     |    |                   |   |      |   |      |   |      |   |      |   | 2   |
| 21. <i>Ontherus compressicornis</i>     |    |     |     |    |                   |   |      |   |      |   |      |   |      |   | 2   |
| 22. <i>Ontherus pilatus</i>             |    |     |     |    | 39                |   | 56   | 5 | 19   | 1 | 2    |   |      |   | 21  |
| 23. <i>Ontherus trituberculatus</i>     | 56 | 8   | 1   |    | 61                |   | 76   |   |      |   |      |   |      |   | 95  |
| 24. <i>Onthophagus acuminatus</i>       | 6  |     |     |    |                   |   |      |   |      |   |      |   |      |   | 137 |
| 25. <i>Onthophagus coscineus</i>        | 9  | 4   |     |    |                   |   |      |   |      |   |      |   |      |   | 57  |
| 26. <i>Onthophagus gr. clypeatus</i>    | 17 |     |     |    |                   |   |      |   |      |   |      |   |      |   | 6   |
| 27. <i>Oxytetrone conspicillatum</i>    | 3  |     | 1   |    |                   |   |      |   |      |   |      |   |      |   | 9   |
| 28. <i>Oxytetrone smaragdinum</i>       | 2  |     | 18  |    |                   |   |      |   |      |   |      |   |      |   | 17  |
| 29. <i>Phanaeus pyrois</i>              | 23 | 23  | 1   |    | 140               |   |      |   |      |   |      |   |      |   | 4   |
| 30. <i>Scolecophanthes trimaculatus</i> | 7  |     | 18  | 4  |                   |   |      |   |      |   |      |   |      |   | 20  |
| 31. <i>Sulcophanaeus noctis</i>         |    |     |     |    |                   |   |      |   |      |   |      |   |      |   | 164 |
| 32. <i>Sulcophanaeus velutinus</i>      |    |     |     |    | 19                |   | 19   |   | 23   |   |      |   |      |   | 25  |
| 33. <i>Uroxys brachialis</i>            |    |     |     |    |                   |   |      |   |      |   |      |   |      |   | 61  |
| 34. <i>Uroxys ca. cuprescens</i>        |    |     |     |    |                   |   | 187  | 1 | 32   |   |      |   |      |   | 219 |
| 35. <i>Uroxys depressifrons</i>         |    |     |     |    | 1                 |   | 9    |   |      |   |      |   |      |   | 10  |
| 36. <i>Uroxys depressifrons</i>         |    |     |     |    |                   |   | 119  |   | 39   |   |      |   |      |   | 158 |
| 37. <i>Uroxys coarctatus</i>            |    |     |     |    |                   |   | 6    |   |      |   |      |   |      |   | 6   |
| 38. <i>Uroxys sp. 1</i>                 |    |     |     |    |                   |   |      |   |      |   |      |   |      |   | 4   |
| 39. <i>Uroxys sp. 2</i>                 | 3  |     |     |    |                   |   |      |   |      |   |      | 4 |      |   |     |



|                                     |    |    |   |   |   |   |   |  |    |
|-------------------------------------|----|----|---|---|---|---|---|--|----|
| 41. <i>Phanaeus chalconelas</i>     | 14 |    |   |   |   |   |   |  | 14 |
| 42. <i>Phanaeus haroldii</i>        |    |    |   |   |   |   |   |  | 3  |
| 43. <i>Phanaeus meleagrís</i>       |    |    | 1 | 2 |   |   | 1 |  | 12 |
| 44. <i>Sulcophanaeus auricollis</i> |    | 30 |   |   |   |   |   |  | 30 |
| 45. <i>Uroxys</i> sp. 1             |    |    |   |   |   | 2 |   |  | 2  |
| 46. <i>Uroxys</i> sp. 2             |    |    |   |   |   | 2 |   |  | 2  |
| 47. <i>Uroxys</i> sp. 3             |    |    |   |   |   | 8 |   |  | 8  |
| 48. <i>Uroxys</i> sp. 5             |    |    | 3 | 1 | 7 |   |   |  | 10 |
| 49. <i>Uroxys</i> sp. 6             | 27 | 1  | 6 | 3 |   |   |   |  | 34 |