

Project Update: January 2012

After three field trips to northern and southern slopes of Sierra de Cajálbana (July, September and December, 2011), 64 points registering ferns and lycophytes have been geo-referenced to illustrate invasive (*Nephrolepis hirsutula*, *Macrothelypteris torresiana*, *Pteris vittata* and *Thelypteris dentata*) and expansive (*Odontosoria wrightiana* and *Pteridium caudatum*) species. The endangered and endemic fern *Notholaena ekmanii* was relocated after 58 years. The population was composed of three mature individuals growing on a serpentine vertical wall near a gallery forest.

From 36 species recorded, 12 have been relocated and 24 are new records to Cajálbana. All of them have been photographed to be included in the illustrated guide. We have also identified, photographed and geo-referenced 18 invasive species of flowering plants to complete the information of exotics invading this area to be added in the management plan of protected area "Mil Cumbres".

Recorded species of ferns and lycophytes (*: new records)

1. *Adiantum fragile* Sw.
2. *Adiantum cristatum* L.*
3. *Adiantum pyramidale* L.*
4. *Anemia adiantifolia* (L.) Sw.
5. *Anemia coriacea* Griseb.
6. *Blechnum appendiculatum* Willd.*
7. *Blechnum serrulatum* Rich.
8. *Campyloneurum phyllitidis* (L.) C. Presl *
9. *Dicranopteris flexuosa* (Schrad.) Underw.
10. *Doryopteris pedata*(L.) Fée *
11. *Lycopodiella cernua* (L.) Pic. Serm. *
12. *Lygodium cubense* Humb. & Bonpl. ex Willd. * endemic
13. *Macrothelypteris torresiana* (Gaudich.) Ching * invasive
14. *Microgramma heterophylla* (L.) Wherry *
15. *Nephrolepis exaltata* (L.) Schott *
16. *Nephrolepis hirsutula* (G. Forst.) C. Presl invasive
17. *Notholaena ekmanii* Maxon endemic
18. *Odontosoria wrightiana* Maxon expansive
19. *Pecluma* sp.*
20. *Phlebodium aureum* (L.) J. Sm.
21. *Pityrogramma calomelanos* (L.) Link *
22. *Pleopeltis polypodioides* (L.) Watt *
23. *Pteridium caudatum* (L.) Maxon expansive
24. *Pteris vittata* L.* invasive
25. *Selaginella plumosa* (L.) C. Presl
26. *Selaginella serpens* (Desv.) Spring *
27. *Selaginella* sp. 1 *
28. *Selaginella* sp. 2 *
29. *Selaginella urquiolae* Caluff * endemic
30. *Serpocaulon triseriale* (Sw.) A.R. Sm. *

31. *Sphaeropteris myosuroides* (Liebm.) R. M. Tryon *
32. *Thelypteris augescens* (Link) Munz & I. M. Johnst. *
33. *Thelypteris dentata* (Forssk.) E. P. St. John * invasive
34. *Thelypteris hispidula* (Decne.) C. F. Reed *
35. *Thelypteris obliterated*(Sw.) Proctor *
36. *Thelypteris patens* (Sw.) Small

Invasive species of Sierra de Cajálbana

1. *Acacia farnesiana* (L.) Willd. Mimosaceae
2. *Argemone mexicana* L. Papaveraceae
3. *Casuarina equisetifolia* L. Casuarinaceae
4. *Casuarina glauca* Sieb. Casuarinaceae
5. *Dichrostachys cinerea* (L.) Wight & Arn. Mimosaceae
6. *Eucalyptus* sp. Myrtaceae
7. *Hyparrhenia rufa* (Nees) Stapf Poaceae
8. *Macrothelypteris torresiana* (Gaudich.) Ching Thelypteridaceae
9. *Mangifera indica* L. Anacardiaceae
10. *Mimosa pigra* L. Mimosaceae
11. *Mimosa pudica* L. Mimosaceae
12. *Nephrolepis hirsutula* (G. Forst.) C. Presl Lomariopsidaceae
13. *Oeceoclades maculata* (Lindl.) Lindl. Orchidaceae
14. *Poranopsis paniculata* (Roxb.) Robety Convolvulaceae
15. *Psidium guajava* L. Myrtaceae
16. *Pteris vittata* L. Pteridaceae
17. *Spathodea campanulata* P. Beauv. Bignoniaceae
18. *Syzygium jambos* (L.) Alston Myrtaceae
19. *Thelypteris dentata* (Forssk.) E. P. St. John Thelypteridaceae
20. *Urena lobata* L. Malvaceae
21. *Zoysia matrella* (L.) Merr. Poaceae