Martinique orchids, a unsuspected biodiversity

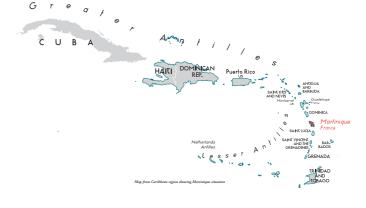




According to most recent studies, France owes a third of world described species particularly due to its tropical territories: its Coral barriers especially in Pacific Ocean but also its tropical forests in Guyana, Réunion Island and

also West Indies... Martinique, French island from « petites Antilles » bears an important botanical diversity. This diversity isn't well known from general public and was less studied than the Guadeloupe diversity, other French island from « Petites Antilles ».

In Martinique, some 470 tree species and 77 orchid species have been described. A few others are still to be discovered, 15% are ground species et 85% mainly epiphytes. The most represented genera are *Epidendrum*, and *Pleurothallis*.













Why such biodiversity?

Martinique has a great biodiversity in a small territory (1100 km²). Explanations to this fact are numerous:

- Well preserved forests cover 36% from territory;
- Tropical humid climate;
- \cdot Very diverse ecosystems in the island due to various temperature, rainfall, topography and soil conditions
- · Áltitudes ranging from sea level till 1397m (Summit from Montagne Pelée).











Fragile environments to protect

Although protected areas (natural reserves) represent 640 km², numerous threats happen to orchids and theirs biotopes in Martinique for instance:

- · Urban sprawl and sometimes without permission;
- Deforestation without permission;
- Heavy erosion of steep land without vegetation ;
- Road and path sides care with excessive cut; Practise of some sports such as canyoning;
- Practise of some sports such as carryoning,
 Illegal garbage dumps;
 Picking or pulling off most beautiful orchids like Epidendrum
 ciliare L., Oncidium altissimum Sw.
 Proliferation of some introduced plants...

Conclusion:

Martinique Island presents a great biodiversity, in particular an interesting flora of epiphytic orchids in areas above 600-700m, which need further studies and protection