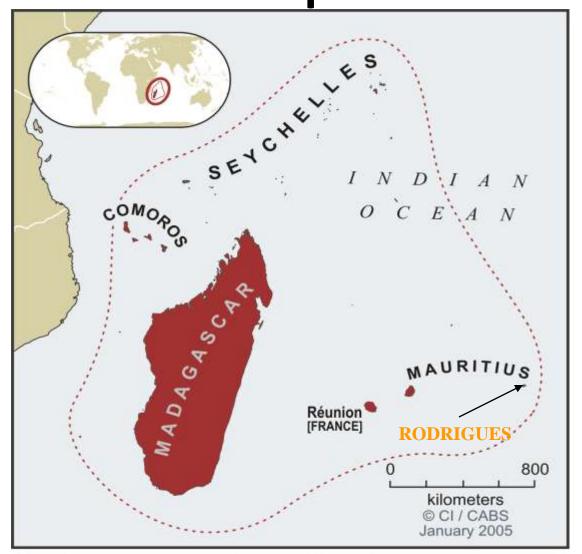
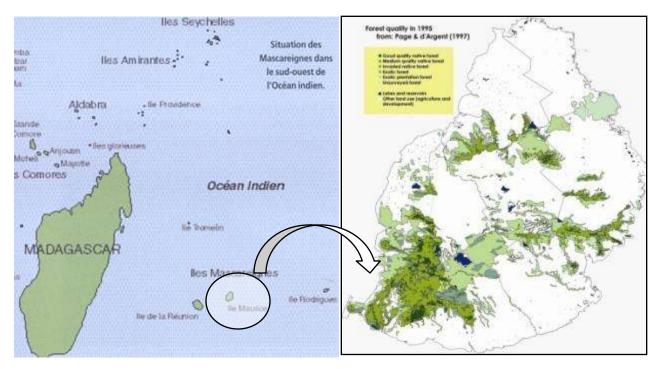


The Madagascar and Indian Ocean Islands Hotspot



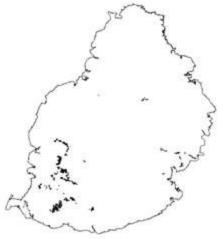
Madagascar and the Indian Ocean Islands Hotspot

Introduction The vegetation of Mauritius



20% of the endemic plants of Mauritius are common to Réunion and Rodrigues

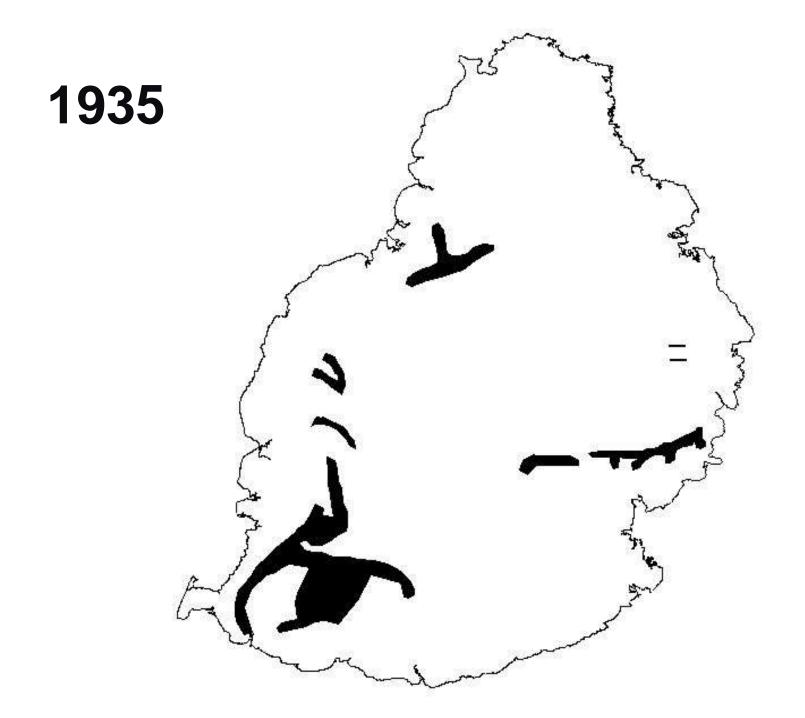
About 16% of Mauritius is covered by forest land

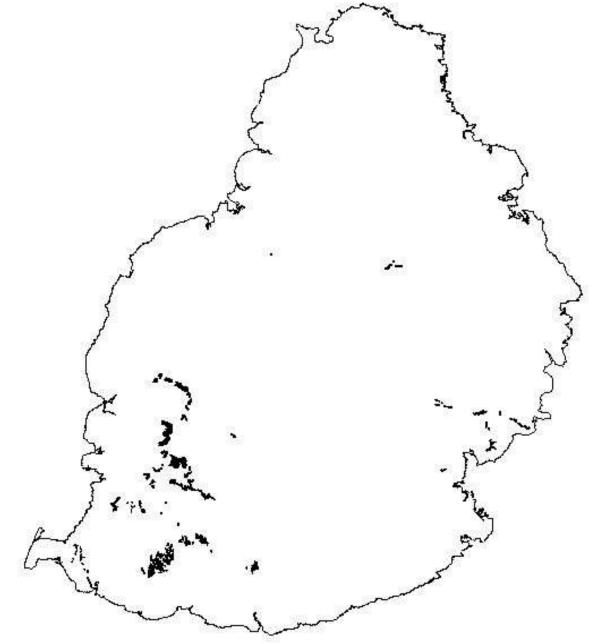


Distribution of a good quality forest with 50% of native vegetation <1.3%









- Mauritius has/had 691 species of flowering plants
- 273 species, and 6 genera, are endemic to Mauritius
- Rodrigues has/had 132 flowering plants of which 44 (33%) are endemic
- Invasive alien species are a major threat to native species and their habitats

Rare plants project

- Of the endemic Mauritian plant species 82% are threatened
- Identify Critically Endangered species in need of urgent attention
- Locate these species
- Grow in field nurseries in natural range
- Keep back-up of species in Field Gene Banks
- Reintroduce at source locations wherever possible.



Rare plants project

Rare plant search



Rare plant search on Piton du Milieu

Rare Plants Propagation



Identification, location and labeling



Lowland plants propagated in the lle aux Aigrettes Nursery



Upland plants propagated in Pigeon Wood Nursery

Field Gene Bank

- Pigeon Wood
 - -Set up in 2005
 - Upland plants

- Ile aux Aigrettes
 - -FGB set up in 2007
 - Lowland plants



Pigeon Wood



Ile aux Aigrettes

Ile aux Aigrettes field gene bank and rare plants monitoring









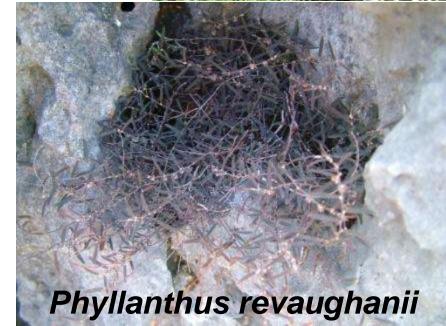
Unique plants



Hyophorbe lagenicaulis

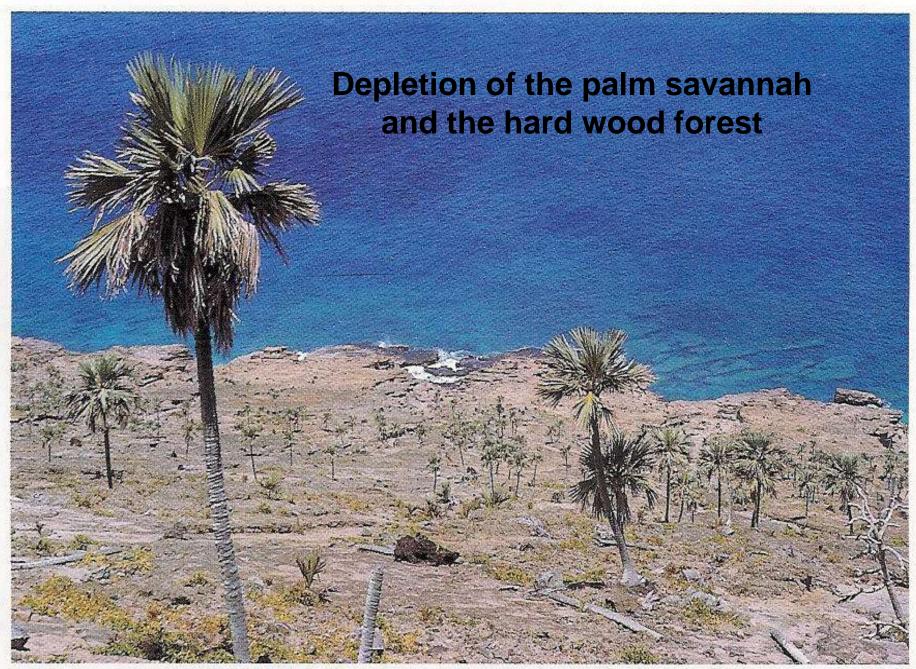






Goat and Rabbit Hunters in 1973







Restoration of Round Island



- Replacing species that were once thought to be on the islets
- Production of plants in nursery set up on the island



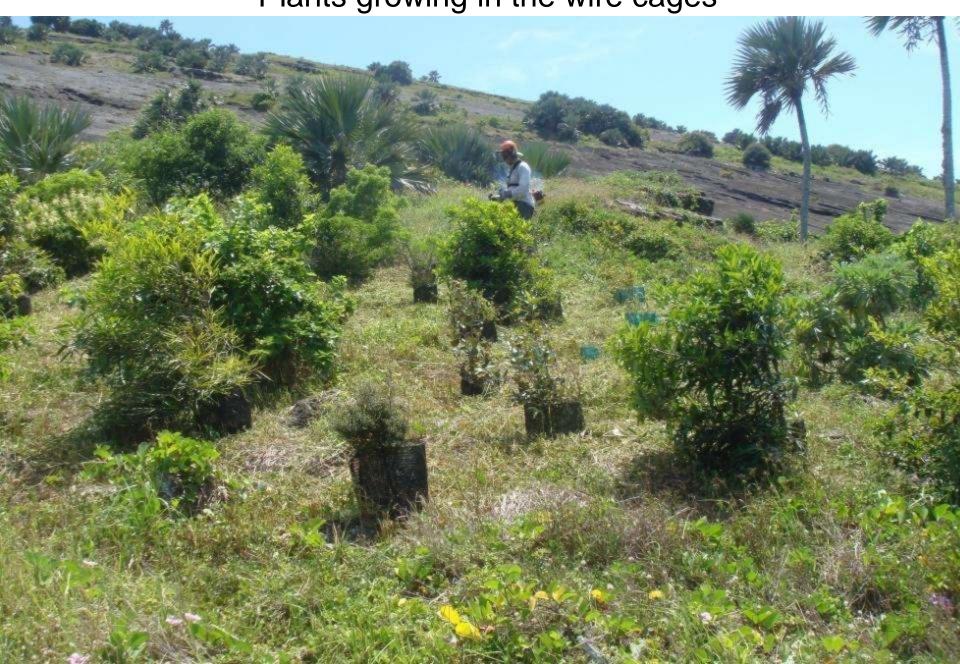


Establishment of a nursery





Plants growing in the wire cages



Shallow soil planting



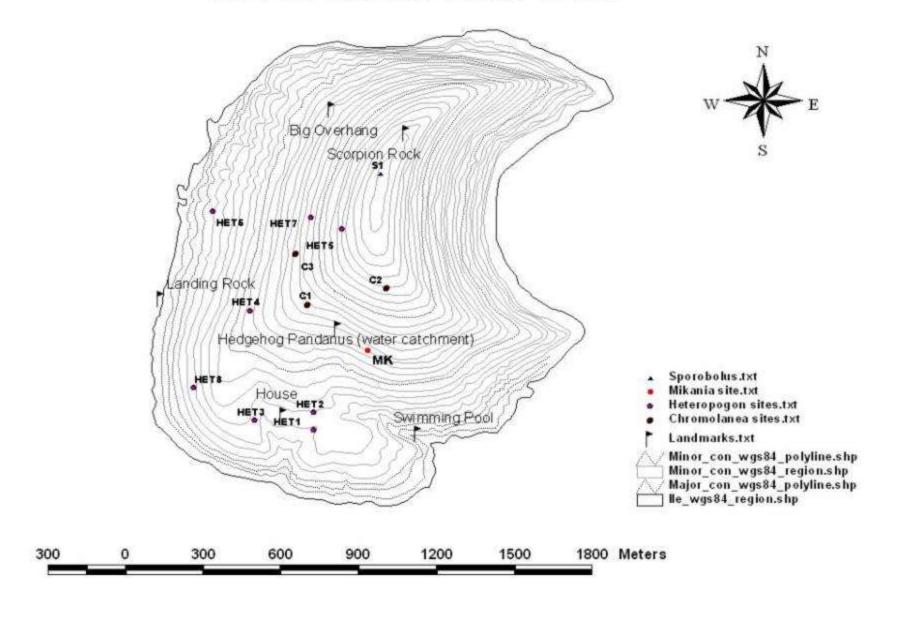
Gully planting



Soil trap planting



ROUND ISLAND WEED SITES



Weeds that are controlled on Round Island



Heteropogon contortus, Mar. 1998



Sporobolus indicum var capensis

Chromolaena odorata, Oct 2002



Mikania micrantha, June 2006





Strict quarantine of supplies and equipment



Vegetation changes



December 2003

August 2009

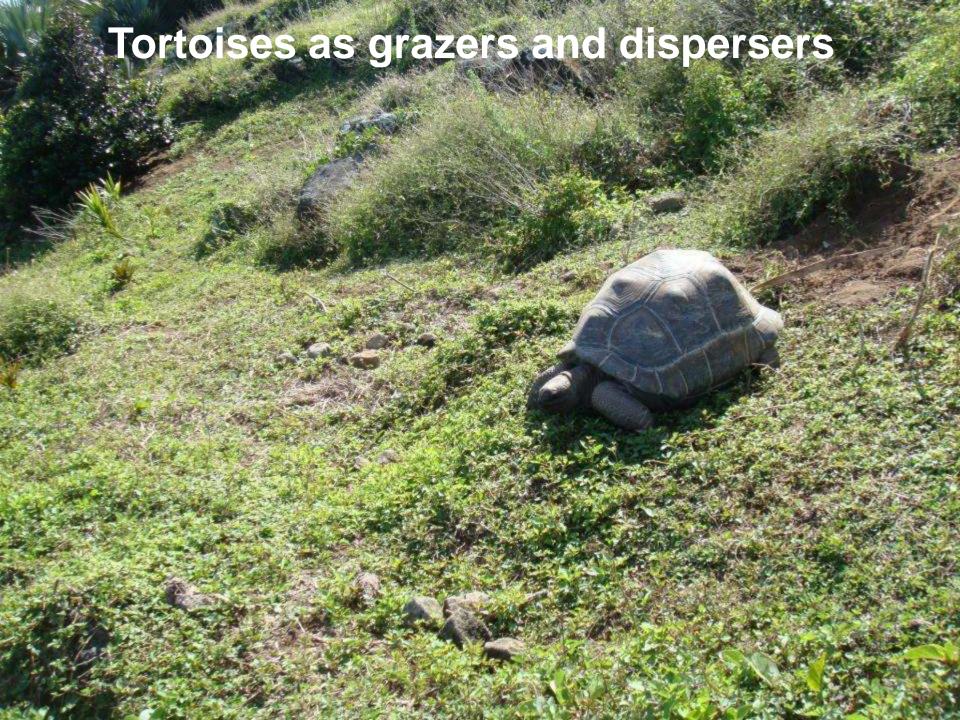


Creation of a hard wood forest











Alien animal pests



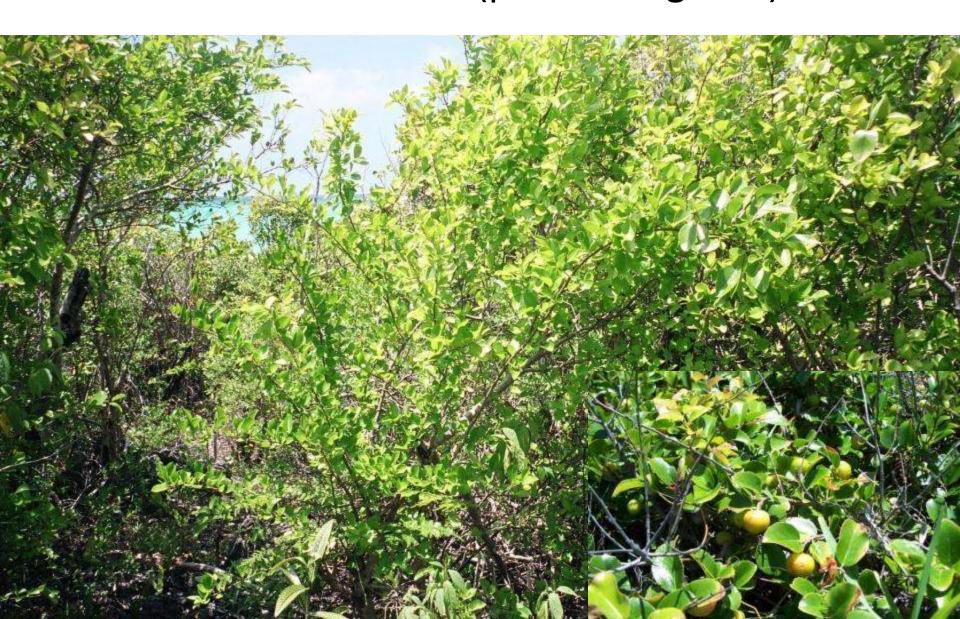




Most dominant weed Leucaena leucocephala (Acacia)



Highly abundant weed Flacourtia indica (prune malgache)







Stump Uprooter

Freshly weeded area







Planting in the open areas



Introduction of herbivores to control weeds...



... and disperse native seeds

Reintroducing bird and reptiles













Forest Restoration projects: Bioculture Ltd



Area planted with native species following weeding at

Chamarel Ebony Forest

Forest restoration projects: Compagnie Sucrière de Bel Ombre Weeded area at Chamarel







Phenology

What is plant phenology?

- Study of
 - the timing of recurrent biological events such as
 - leaf flushing
 - flowering
 - fruiting
 - the causes of their timing with regard to biotic and abiotic factors
 - the interrelation among phases of the same or different species.







Diospyros egrettarum

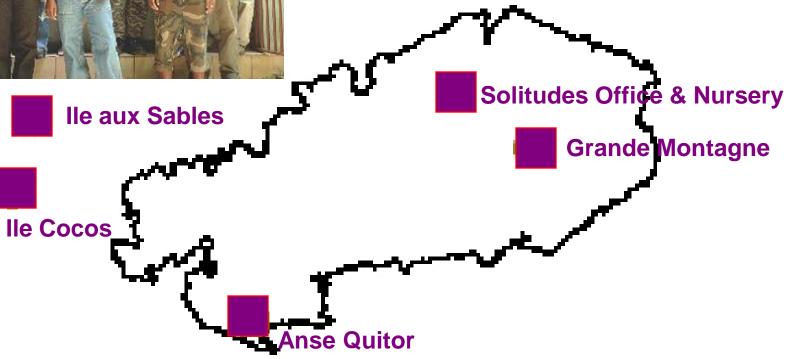








RODRIGUES



endemic plant exploration

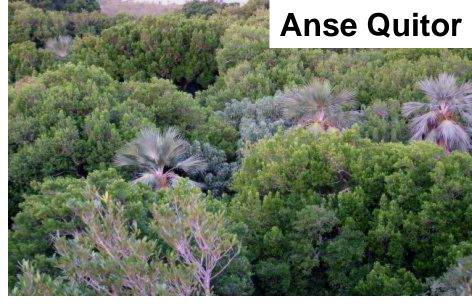
rare plant propagation



Solitudes Nursery







Habitat Restoration and Species Recovery





Field Restoration Team



Thinning of exotics



Planting native and endemic seedlings



Monitoring survival and growth rate







Grassroots Community Projects in Rodrigues





The Rodrigues Environmental Education Programme

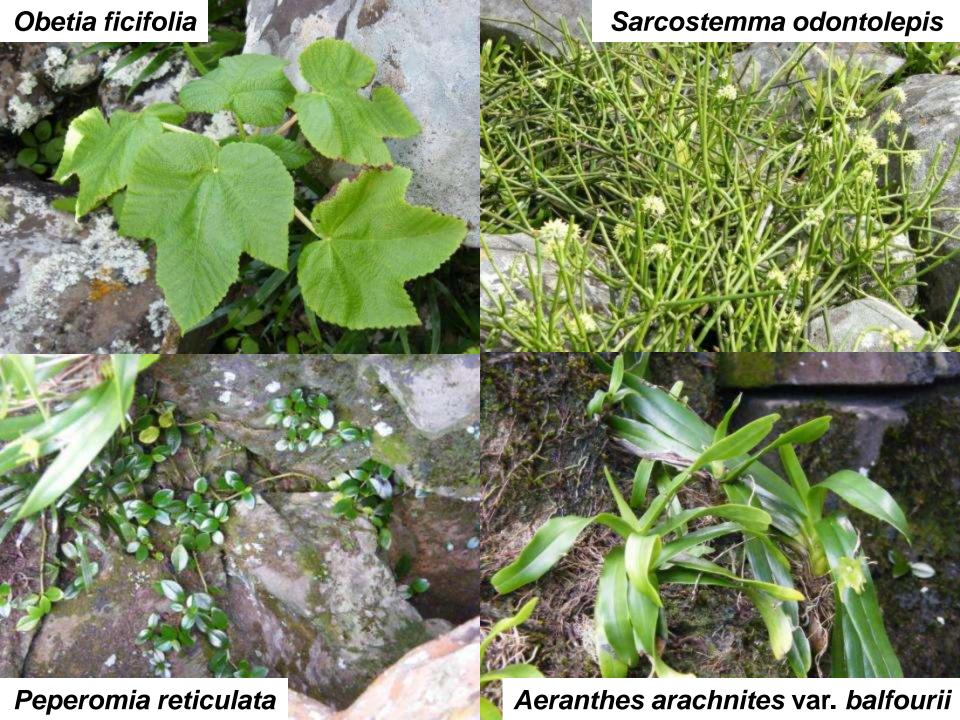


Reach out to school children of all ages



Grande Montagne Nature Reserve









ENDEMIC & NATIVE PLANTS



Scientific name: Hilriscus lituflorus Local name: Mandrinette

Scientific name:

Scientific name:

Pernelia baccifolia

Local name Box bouselle

Latarria verschaffeltii

Local name: Latanier jaune



Scientific name: Pittosporum balfourii Local name: Bois begasse



Scientific name: Foetidia rodrigueniana Local name: Bois puant



Scientific name: Dracaena reflexa Local name: Boir chandelle



Scientific name: Pandanus heterocarpus Local name: Vacous



Scientific name: Hyophorbe verschaffeltu Local name: Palmiste marron



Scientific name: Peperomia reticulata



Scientific name: Gastonia rodriguesiana Local name: Bois blanc



Scientific name: Sideroxylon galeatum Local name: Bois fer



Oleu lancea Local name: Bois cerf

Scientific name:





Scientific name: Mathurina penduliflara Local name: Bois gandine

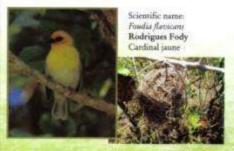


"This plant is unique to Rodrigues Island." Cette plante est unique it Rodrigues.

The only three remaining endemic vertebrates on Rodrigues. Les seuls trois vertébrés endémiques de Rodrigues

Scientific name: Acrocophalus redericanus Rodrigues Warbler Fauvette de Rodrigues





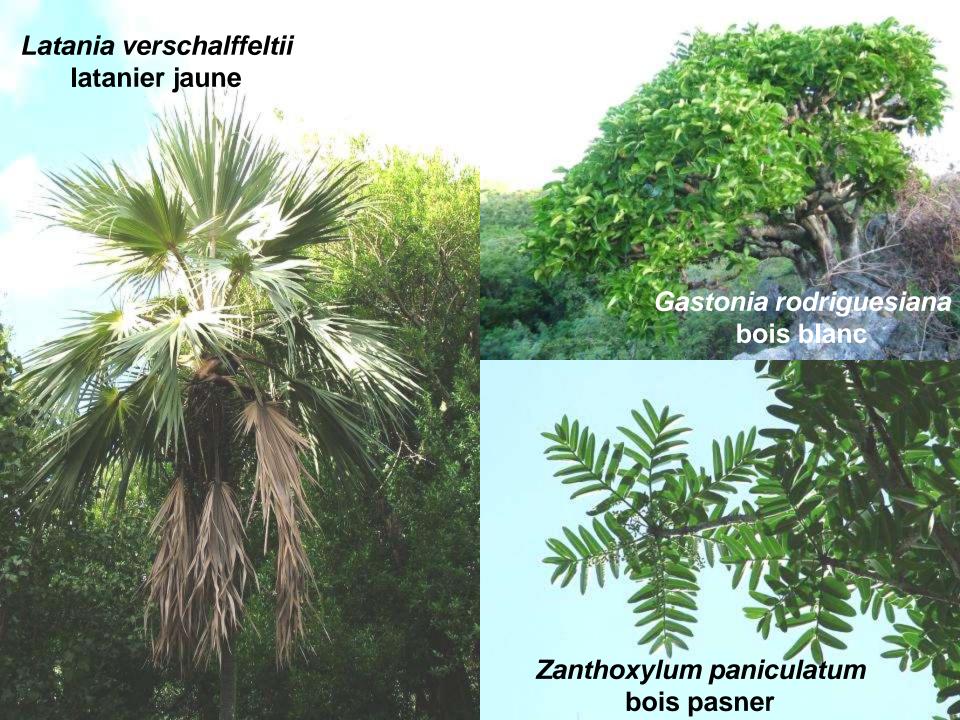


Scientific name: Pteropus rodriconsis Rodrigues Fruit Bat La Chauve souris de Rodrigues

Anse Quitor Nature Reserve



- Fenced area 35 Ha
- Nature Reserve 10.3 Ha
- Foetidia rodriguesiana (bois puant),
 Polyscias rodriguesiana (bois blanc) and
 Terminalia bentzoe ssp. rodriguesi (bois benjoin)
 - 18 Ha restored: 12 Ha (MWF), 6 Ha (Forestry Service)
- Number of plants planted by MWF > 90 000
 - 6 labourers trained in restoration
 Staff exchange with Mauritius &



RESTORATION OF ANSE QUITOR NATURE RESERVE





Solitude nursery

Horozala restoration, 4 ha within Anae Quitor Nature Reserve will be restored and 40,000 nurvery propagared, endendic seedlings will be planted.



Uprooting of invasive species & Planting of endemic sendings

Invasive alien species are being removed and native and endemic seedlings are being planted. Through the project a term of 6 villagers were required and are being trained in propagation techniques for the restoration of Ause Centur Nature reserve.



Conservation of rare species

The biodiversity and rule plant species of the Anne Quites region, are being protected.

Anse Quitor region is an area of high endemism with the only remaining wild species of Zanthaxylum paniculatum (Bois pasner) and the last female Dombeya radriguesiana (Bois pipe) was found in this area.



Before

Mauritian Wildlife Foundation will increase the awareness of Rodrigues biodiversity and the Anse Quitor Nature Reserve through educational visits and participation by schools, businesses, and community groups.



Anse Quitor is also an interesting area with caves, namely Gastonia, in which many bones of the extinct Solitaire and tortoise have been found.



I mouth later

Local community involvement



Volunteer helping in the reserve



Educational visit in the reserve



Community talk with villagers



Awareness campaign with business group

















Seabirds on Ile Cocos and Ile aux Sables



Fairy Tern

Important site for wading and overwintering birds-Ruddy Turnstones, whimbrel, plovers, sandpipers





Restoration of Ile Cocos



Restoration of Ile Cocos



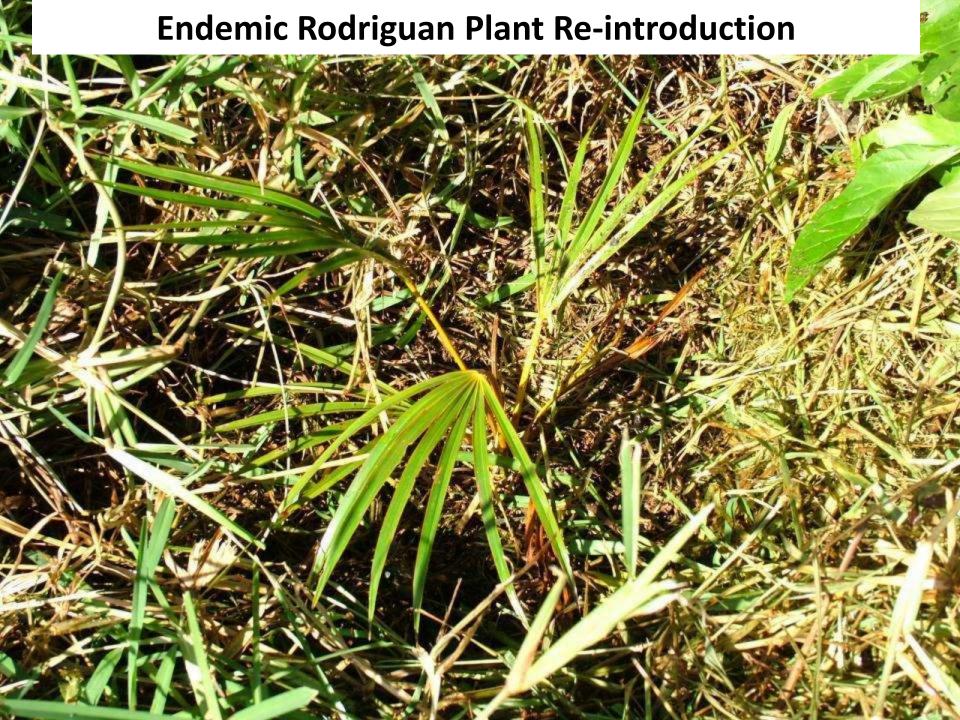
Transporting seedlings from Nursery to Ile Cocos

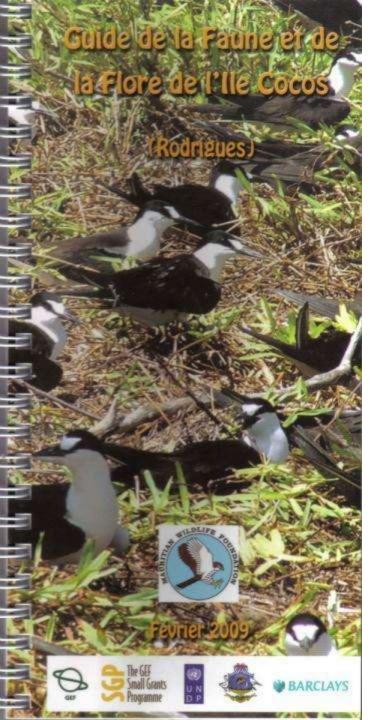
Restoration of Ile Cocos





Planting on Ile Cocos





Ipomea pes-caprae



Familie : Convolvulacie:

Plante ramponte du littoral reconnue pour son dile dans la protection romante des plages contre l'évoient. Elle est avais utilisée dans la péche du caper et en médiche traditionnelle.

Nom commun : Lane batatran, Liane patate à Durand. Nom focal : lian batatran

Distribution : Largement répandue vous les tropiques, cette plante est aussi indigête des Mascareignes. Elle est commune à Rodrigues sur les côtes sabtonneuses ou rocheuses. Les fleurs sont roce-maures et le contre plus sombre. Elle est efficace contre.

l'écusor des plages. Lyclum tenue





Le 'bwa mato' est exploité par le Nodal à bec grêle pour nidifier.

Nom commun : Bos matelot. Nom local : buta matto Famille : Solanacée.

Distribution : Indigine des Macareignes, cette plante est communiment rencontrée à Rodrigues, le long des côtes. Occasionnelle à Maurice et rare à la Réunion.

Pisonia grandis

ES

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After contains sealment & Richigues, pour les Moscoreignes, il est utilisé par l'incouvie verge pour militer.

Num commun rhois rrupos Num local ; bise mapos Famille rNyctagracce

Distribution (Cet artim, des lots de Rodrigues jusqu'à la Polyedon, in trouve rannent à l'antrieur des terres. Il farme des loufes sur l'ile Cocco ou les Noddis et les Codicitées blanches nichest. Leurs fruits très sollants se livent sur les onnaux, les plantes utilisent ensi cette allightation pour disponser leurs graines à large échelle. Dans les cassombres, les fruits collants pouvent entraver le bon développement des pouvens, et même entraîner leur mont. Cursiculement, cetteexpère n'il jamas et le reconside à Maurice n'il à la Péprion.

Stenotophrum dimidiotum



Herbe typique du litiaral et des Rots des Mascoregnes.

Nom commun : Herbe boursque

Nom local plets burk. Famille : Grammés

Distribution : Existe en Afrique et en Asie, à Madagascar, aux Comores et dairs les Mascuregnes, Très commune à Rodrigues, le long des côtes, sur le sable dunaire, et pouvoit former des peuplements denses dans les sous-bos des pluntations de filaos. On la trouve à toutes les althodes sur Tile Coxos, ainsi que sur les autres libra et aut Tile principale.

34

35





Rodrigues Passerines



Rodrigues Warbler fauvette de Rodrigues

Rodrigues Fody cardinal de Rodrigues VULNERABLE

On the brink of extinction in the 1970's

How many bird extinctions have we prevented?

Stuart Butchart, Alison Stattersfield, and Nigel Collar (Birdlife International)

- 31 bird species have been saved from extinction during 1984-2004
- 3 are from Mauritius (Mauritius Kestrel, Pink Pigeon, Echo Parakeet)
- 2 are from Rodrigues!

Rodrigues Warbler Rodrigues Fody

Rodrigues Warbler

c. 30 individuals in early 1970's



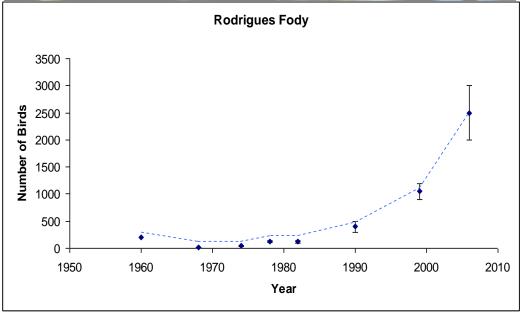
c. 4000 individuals

Near Threatened

Rodrigues Fody

- c. 30 birds in 1974
- > 8000 birds in 2010
- Near Threatened
- Most successful passerine restoration?







Rodrigues Fruitbat

